LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 14

2025

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Prepared for

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Longhorn Army Ammunition Plant

1976–2025

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

VOLUME 14

2025

A.	Title:	(Cont'd) Report – Appendix F labs File 2 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:	01313433–01315394

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467121

LH18/24-SP650_051424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050838-01	Water	05/18/24 05:49	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051807.D	57	50	113		81-118
4-Bromofluorobenzene	U051807.D	55	50	111		85-114
Dibromofluoromethane	U051807.D	55	50	110		80-119
Toluene-d8	U051807.D	56	50	112		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050838-02	Water	05/18/24 05:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051806.D	56	50	112		81-118
4-Bromofluorobenzene	U051806.D	55	50	110		85-114
Dibromofluoromethane	U051806.D	54	50	107		80-119
Toluene-d8	U051806.D	56	50	112		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050989-08MS	Aqueous	05/18/24 06:33	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051809.D	55.74	50	111		81-118
4-Bromofluorobenzene	U051809.D	56.42	50	113		85-114
Dibromofluoromethane	U051809.D	56.2	50	112		80-119
Toluene-d8	U051809.D	58.71	50	117		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467121

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050989-08MSD	Aqueous	05/18/24 06:54	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051810.D	55.21	50	110		81-118
4-Bromofluorobenzene	U051810.D	55.49	50	111		85-114
Dibromofluoromethane	U051810.D	55.25	50	110		80-119
Toluene-d8	U051810.D	58.2	50	116		89-112

VBLKW-240518

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240518	Aqueous	05/18/24 05:06	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051805.D	55.43	50	111		81-118
4-Bromofluorobenzene	U051805.D	55.07	50	110		85-114
Dibromofluoromethane	U051805.D	54.06	50	108		80-119
Toluene-d8	U051805.D	55.34	50	111		89-112

VLCSW-240518

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240518	Aqueous	05/18/24 04:23	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051803.D	55.32	50	111		81-118
4-Bromofluorobenzene	U051803.D	54.73	50	109		85-114
Dibromofluoromethane	U051803.D	56.98	50	114		80-119
Toluene-d8	U051803.D	55.66	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24050838	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467121

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/18/24 04:01	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051802.D	54.5	50	109		80-120
4-Bromofluorobenzene	U051802.D	56.26	50	113		80-120
Dibromofluoromethane	U051802.D	55.21	50	110		80-120
Toluene-d8	U051802.D	58.1	50	116		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24050989-08MS

BatchQC (HS24050989-08)				HS24050989-08MS				HS24050989-08MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 05/18/24				Run Date: 05/18/24						
Instrument ID: VOA9				Run Time: 06:33				Run Time: 06:54						
				Data File: U051809.D				Data File: U051810.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	1	0	19.2949	20	96		18.5308	20	93		20	4.04	
1,1,1-Trichloroethane	74-131	1	0	20.3683	20	102		19.5776	20	98		20	3.96	
1,1,2,2-Tetrachloroethane	71-121	1	0	20.6028	20	103		19.7083	20	98		20	4.44	
1,1,2-Trichloroethane	80-119	1	0	20.4972	20	102		19.3757	20	97		20	5.63	
1,1-Dichloroethane	77-125	1	0.6309	20.8323	20	101		20.3705	20	99		20	2.24	
1,1-Dichloroethene	71-131	1	0	21.1352	20	106		20.4465	20	102		20	3.31	
1,1-Dichloropropene	78-125	1	0	21.3404	20	107		20.8103	20	104		20	2.52	
1,2,3-Trichlorobenzene	69-129	1	0	18.6648	20	93		18.0245	20	90		20	3.49	
1,2,3-Trichloropropane	73-122	1	0	18.4826	20	92		18.2636	20	91		20	1.19	
1,2,4-Trichlorobenzene	69-130	1	0	17.3204	20	87		17.1924	20	86		20	0.742	
1,2,4-Trimethylbenzene	76-124	1	2.226	22.0208	20	99		21.1796	20	95		20	3.89	
1,2-Dibromo-3-chloropropane	62-128	1	0	17.5153	20	88		17.6993	20	88		20	1.04	
1,2-Dibromoethane	77-121	1	0	20.1276	20	101		19.4388	20	97		20	3.48	
1,2-Dichlorobenzene	80-119	1	0	19.1751	20	96		18.6786	20	93		20	2.62	
1,2-Dichloroethane	73-128	1	0	20.2169	20	101		19.9931	20	100		20	1.11	
1,2-Dichloropropane	78-122	1	0	19.4667	20	97		19.1851	20	96		20	1.46	
1,3,5-Trimethylbenzene	75-124	1	2.109	22.8158	20	104		21.6713	20	98		20	5.15	
1,3-Dichlorobenzene	80-119	1	0	18.7577	20	94		18.1665	20	91		20	3.2	
1,3-Dichloropropane	80-119	1	0	20.0559	20	100		19.2501	20	96		20	4.1	
1,4-Dichlorobenzene	79-118	1	0	18.7577	20	94		18.1665	20	91		20	3.2	
2,2-Dichloropropane	60-139	1	0	14.3487	20	72		14.1135	20	71		20	1.65	
2-Butanone	56-143	1	0	39.1981	40	98		38.9588	40	97		20	0.612	
2-Chlorotoluene	79-122	1	0	20.3749	20	102		19.6134	20	98		20	3.81	
2-Hexanone	57-139	1	0	47.0966	40	118		46.8729	40	117		20	0.476	
4-Chlorotoluene	78-122	1	0	20.0865	20	100		19.3052	20	96		20	3.97	
4-Isopropyltoluene	77-127	1	0	20.9590	20	105		19.7389	20	99		20	6	
4-Methyl-2-pentanone	67-130	1	0	46.2659	40	116		46.0885	40	115		20	0.384	
Acetone	39-160	1	0	36.1887	40	90		35.8304	40	90		20	0.995	
Benzene	79-120	1	3.172	23.5233	20	102		23.0135	20	99		20	2.19	
Bromobenzene	80-120	1	0	19.7658	20	99		19.2147	20	96		20	2.83	
Bromochloromethane	78-123	1	0	19.5979	20	98		18.7735	20	94		20	4.3	
Bromodichloromethane	79-125	1	0	18.9382	20	95		18.3883	20	92		20	2.95	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Bi-Weekly Samples

Workorder: **HS24050838**

SAMPLENUM: HS24050989-08MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24050989-08)			HS24050989-08MS		HS24050989-08MSD	
Spike Matrix: Aqueous	Result Units: ug/L		Run Date: 05/18/24		Run Date: 05/18/24	
Instrument ID: VOA9			Run Time: 06:33		Run Time: 06:54	
			Data File: U051809.D		Data File: U051810.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	1	0	15.7894	20	79		16.1244	20	81		20	2.1	
Bromomethane	53-141	1	0	28.5423	20	143		26.2498	20	131		20	8.37	
Carbon disulfide	64-133	1	0	41.0394	40	103		40.0670	40	100		20	2.4	
Carbon tetrachloride	72-136	1	0	19.8391	20	99		19.5268	20	98		20	1.59	
Chlorobenzene	82-118	1	0	19.5725	20	98		19.0679	20	95		20	2.61	
Chloroethane	60-138	1	0	22.3278	20	112		20.2715	20	101		20	9.65	
Chloroform	79-124	1	0	20.0947	20	100		19.6439	20	98		20	2.27	
Chloromethane	50-139	1	0	13.2116	20	66		13.1534	20	66		20	0.442	
cis-1,2-Dichloroethene	78-123	1	2.408	22.0467	20	98		21.6708	20	96		20	1.72	
cis-1,3-Dichloropropene	75-124	1	0	16.9078	20	84		16.7762	20	84		20	0.781	
Dibromochloromethane	74-126	1	0	17.3061	20	86		17.1956	20	86		20	0.64	
Dibromomethane	79-123	1	0	19.1219	20	96		19.2486	20	96		20	0.66	
Dichlorodifluoromethane	32-152	1	0	20.3718	20	102		19.9249	20	100		20	2.22	
Ethylbenzene	79-121	1	3.948	25.6157	20	108		24.4505	20	103		20	4.65	
Hexachlorobutadiene	66-134	1	0	17.4853	20	87		16.6344	20	83		20	4.99	
Isopropylbenzene	72-131	1	0.8409	22.2573	20	107		21.6571	20	104		20	2.73	
m,p-Xylene	80-121	1	7.553	49.6137	40	105		48.3995	40	102		20	2.48	
Methylene chloride	74-124	1	0	18.1405	20	91		17.6739	20	88		20	2.61	
Naphthalene	61-128	1	3.902	24.0733	20	101		23.9396	20	100		20	0.557	
n-Butylbenzene	75-128	1	0	18.1292	20	91		17.4532	20	87		20	3.8	
n-Propylbenzene	76-126	1	1.256	22.7243	20	107		21.5813	20	102		20	5.16	
o-Xylene	78-122	1	4.433	25.2536	20	104		24.8805	20	102		20	1.49	
sec-Butylbenzene	77-126	1	0.6593	21.4636	20	104		20.5695	20	100		20	4.25	
Styrene	78-123	1	0	19.8610	20	99		19.4666	20	97		20	2.01	
tert-Butylbenzene	78-124	1	0	21.6934	20	108		20.7670	20	104		20	4.36	
Tetrachloroethene	74-129	1	0	20.1200	20	101		19.7096	20	98		20	2.06	
Toluene	80-121	1	20.67	42.8071	20	111		41.5639	20	104		20	2.95	
trans-1,2-Dichloroethene	75-124	1	0	19.6145	20	98		19.3256	20	97		20	1.48	
trans-1,3-Dichloropropene	73-127	1	0	16.7812	20	84		16.7709	20	84		20	0.0615	
Trichloroethene	79-123	1	1.953	22.7454	20	104		22.2601	20	102		20	2.16	
Trichlorofluoromethane	65-141	1	0	21.1734	20	106		20.4229	20	102		20	3.61	
Vinyl chloride	58-137	1	0	21.9724	20	110		21.1551	20	106		20	3.79	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24050838	

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM
HS24050989-08MS

BatchQC (HS24050989-08)				HS24050989-08MS		HS24050989-08MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/18/24	Run Date	05/18/24	
Instrument ID	VOA9			Run Time	06:33	Run Time	06:54	
				Data File	U051809.D	Data File	U051810.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

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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 Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240518

VOA9_467121			VLCSW-240518				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/18/24 Run Time 04:23				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	19.32	96.6			
1,1,1-Trichloroethane	74-131	20	18.45	92.3			
1,1,2,2-Tetrachloroethane	71-121	20	17.85	89.3			
1,1,2-Trichloroethane	80-119	20	20.2	101			
1,1-Dichloroethane	77-125	20	19.39	97.0			
1,1-Dichloroethene	71-131	20	19.57	97.8			
1,1-Dichloropropene	78-125	20	19.92	99.6			
1,2,3-Trichlorobenzene	69-129	20	19.6	98.0			
1,2,3-Trichloropropane	73-122	20	18.36	91.8			
1,2,4-Trichlorobenzene	69-130	20	18.31	91.6			
1,2,4-Trimethylbenzene	76-124	20	18.85	94.3			
1,2-Dibromo-3-chloropropane	62-128	20	15.85	79.2			
1,2-Dibromoethane	77-121	20	20.01	100			
1,2-Dichlorobenzene	80-119	20	19.4	97.0			
1,2-Dichloroethane	73-128	20	19.81	99.0			
1,2-Dichloropropane	78-122	20	19.89	99.4			
1,3,5-Trimethylbenzene	75-124	20	19.34	96.7			
1,3-Dichlorobenzene	80-119	20	19.17	95.8			
1,3-Dichloropropane	80-119	20	19.53	97.6			
1,4-Dichlorobenzene	79-118	20	19.17	95.8			
2,2-Dichloropropane	60-139	20	15.24	76.2			
2-Butanone	56-143	40	39.73	99.3			
2-Chlorotoluene	79-122	20	19.67	98.3			
2-Hexanone	57-139	40	38.3	95.8			
4-Chlorotoluene	78-122	20	19.8	99.0			
4-Isopropyltoluene	77-127	20	19.63	98.2			
4-Methyl-2-pentanone	67-130	40	36.65	91.6			
Acetone	39-160	40	50.9	127			
Benzene	79-120	20	19.58	97.9			
Bromobenzene	80-120	20	19.77	98.8			
Bromochloromethane	78-123	20	19.15	95.8			
Bromodichloromethane	79-125	20	18.9	94.5			
Bromoform	66-130	20	16	80.0			
Bromomethane	53-141	20	26.41	132			
Carbon disulfide	64-133	40	39.24	98.1			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240518

VOA9_467121			VLCSW-240518				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/18/24 Run Time 04:23				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	18.58	92.9			
Chlorobenzene	82-118	20	19.09	95.4			
Chloroethane	60-138	20	19.46	97.3			
Chloroform	79-124	20	19.72	98.6			
Chloromethane	50-139	20	14.29	71.4			
cis-1,2-Dichloroethene	78-123	20	18.98	94.9			
cis-1,3-Dichloropropene	75-124	20	17.97	89.8			
Dibromochloromethane	74-126	20	18.06	90.3			
Dibromomethane	79-123	20	19.52	97.6			
Dichlorodifluoromethane	32-152	20	19.06	95.3			
Ethylbenzene	79-121	20	19.77	98.8			
Hexachlorobutadiene	66-134	20	19.02	95.1			
Isopropylbenzene	72-131	20	20.09	100			
m,p-Xylene	80-121	40	40.01	100			
Methylene chloride	74-124	20	18.06	90.3			
Naphthalene	61-128	20	17.98	89.9			
n-Butylbenzene	75-128	20	17.45	87.3			
n-Propylbenzene	76-126	20	20.34	102			
o-Xylene	78-122	20	19.83	99.2			
sec-Butylbenzene	77-126	20	19.81	99.0			
Styrene	78-123	20	20.09	100			
tert-Butylbenzene	78-124	20	20.64	103			
Tetrachloroethene	74-129	20	19.2	96.0			
Toluene	80-121	20	19.19	95.9			
trans-1,2-Dichloroethene	75-124	20	18.38	91.9			
trans-1,3-Dichloropropene	73-127	20	17.63	88.2			
Trichloroethene	79-123	20	21.23	106			
Trichlorofluoromethane	65-141	20	18.92	94.6			
Vinyl chloride	58-137	20	20	100			

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24050838	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240518	Aqueous	05/18/24 05:06	R467121	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240518	VLCSW-240518	LCS	05/18/24 04:23	R467121	VOA9	U051803.D
Trip Blank	HS24050838-02	SAMP	05/18/24 05:28	R467121	VOA9	U051806.D
LH18/24-SP650_051424	HS24050838-01	SAMP	05/18/24 05:49	R467121	VOA9	U051807.D
BatchQC	HS24050989-08MS	MS	05/18/24 06:33	R467121	VOA9	U051809.D
BatchQC	HS24050989-08MSD	MSD	05/18/24 06:54	R467121	VOA9	U051810.D

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right partner.

Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

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

Lab File ID: U051601 BFB Injection Date: 05/16/24

Instrument ID: VOA9 BFB Injection Time: 1157

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	18.5
75	30.0 - 60.0% of mass 95	47.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	84.9
175	5.0 - 9.0% of mass 174	7.6 (8.9)1
176	95.0 - 101.0% of mass 174	81.4 (95.9)1
177	5.0 - 9.0% of mass 176	5.6 (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	U051602	05/16/24	1219
02	VSTD00.5	VSTD00.5	U051603	05/16/24	1240
03	VSTD001	VSTD001	U051604	05/16/24	1302
04	VSTD002	VSTD002	U051605	05/16/24	1323
05	VSTD005	VSTD005	U051606	05/16/24	1345
06	VSTD020	VSTD020	U051607	05/16/24	1406
07	VSTD050	VSTD050	U051608	05/16/24	1428
08	VSTD100	VSTD100	U051609	05/16/24	1450
09	VSTD150	VSTD150	U051610	05/16/24	1511
10	VSTD200	VSTD200	U051611	05/16/24	1533
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

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

Lab File ID: U051613 BFB Injection Date: 05/16/24

Instrument ID: VOA9 BFB Injection Time: 1616

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	18.5
75	30.0 - 60.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.8 (8.3)1
176	95.0 - 101.0% of mass 174	78.0 (95.5)1
177	5.0 - 9.0% of mass 176	5.6 (7.2)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	VSTD050	VSTD050	U051614	05/16/24	1638
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24050838	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467121

Tune File: U051801.D — 05/18/24 5/18/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.5 (18.5)
75	30.0 - 60.0% of mass 95	49.2 (49.2)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.32)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	83.5 (83.5) 1
175	5.0 - 9.0% of mass 174	7.4 (8.91) 1
176	> 95% but < 101% of mass 174	81.1 (97.2) 1
177	5.0 - 9.0% of mass 176	5.5 (6.79) 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	5/18/2024	U051802	VSTD050
2	VLCSW-	LCS	5/18/2024	U051803	VLCSW-240518
3	VBLKW-	MBLK	5/18/2024	U051805	VBLKW-240518
4	HS24050838-	SAMP	5/18/2024	U051806	Trip Blank
5	HS24050838-	SAMP	5/18/2024	U051807	LH18/24-SP650_051424
6	HS24050989-	MS	5/18/2024	U051809	ZZZZZZMS
7	HS24050989-	MSD	5/18/2024	U051810	ZZZZZZMSD
8	VSTD050	CCV_EN	5/18/2024	U051829	VSTD050

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051602.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051606.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051607.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051608.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051609.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051610.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051611.D

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
2 Dichlorodifluoromethane	+++++ / 82697	468 / 171149	814 / 254862	2351 / 343075	8602	31005	QUAD	0.00772	3.76073	-0.24533	0.99978
3 Chloromethane	+++++ / 297421	45991 / 547162	48305 / 759795	53722 / 958216	69341	142273	QUAD	-0.15445	1.13986	0.04836	0.99976
4 Propionitrile	+++++ / 0.05922	0.06840 / 0.05944	0.06955 / 0.05602	0.06670 / 0.05707	0.05917	0.06082	AVRG		0.06182		8.15944

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ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.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
5 Vinyl Chloride	+++++	0.33442	0.32301	0.38461	0.42633	0.40117					
	0.41873	0.42811	0.42361	0.44022			AVRG		0.39780		10.67766
6 Bromomethane	+++++	2570	2928	3983	6262	17099					
	39097	76630	116067	161273			LINR	-0.02327	0.13013		0.99727
7 Chloroethane	+++++	+++++	1094	2619	8448	35138					
	90413	174779	266216	355611			LINR	0.01832	0.29563		0.99948
8 Trichlorofluoromethane	+++++	818	1640	4522	14893	55309					
	146871	297796	439692	582681			QUAD	0.00716	2.10561	-0.02927	0.99981
9 Acrolein	+++++	+++++	317	604	1010	4268					
	9458	17482	26637	34405			QUAD	-0.06684	69.35435	5.80978	0.99964
10 Acetone	+++++	+++++	3788	7266	11589	38663					
	100311	182728	261279	359817			QUAD	-0.09610	7.11744	-0.27903	0.99821
11 1,1-Dichloroethene	+++++	0.22305	0.23504	0.26626	0.31688	0.28939					
	0.29559	0.30321	0.29944	0.31122			AVRG		0.28223		11.87798

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ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
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Last Edit : 30-May-2024 17:05 s.zaid

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	+++++	0.06403	0.06548	0.06859	0.06539	0.05789						
	0.05849	0.05959	0.06368	0.06554			AVRG		0.06319		5.83644	
13 Acetonitrile	+++++	0.04978	0.03659	0.04280	0.04090	0.04079						
	0.03977	0.04034	0.03814	0.03747			AVRG		0.04073		9.57553	
14 Allyl Chloride	+++++	1.09655	1.10184	1.05246	0.98754	0.99729						
	0.99955	1.00995	0.94577	0.94690			AVRG		1.01532		5.65321	
15 Iodomethane	+++++	1400	1215	1552	2386	6897						
	21451	66220	+++++	+++++			QUAD	-0.08209	35.99796	-79.26484	0.99846	<-
16 Acrylonitrile	+++++	1514	2549	4397	9525	37579						
	92533	183711	255899	340253			QUAD	-0.02079	6.72879	0.30947	0.99906	
17 Methylene Chloride	+++++	4190	5338	8047	15828	49863						
	119535	234030	339564	444703			QUAD	-0.03099	2.66495	0.03180	0.99979	
18 Methyl tert-butyl ether	+++++	1.21340	1.08983	1.13507	0.99085	1.00456						
	0.97401	0.98882	0.93555	0.94545			AVRG		1.03084		9.16003	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
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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	+++++	0.77843	0.68102	0.74201	0.88872	0.85213						
	0.91734	0.94946	0.93993	0.97341			AVRG		0.85805		11.94242	
20 trans-1,2-Dichloroethene	+++++	0.31053	0.36867	0.31393	0.34926	0.33088						
	0.33548	0.33738	0.33117	0.34217			AVRG		0.33550		5.23311	
21 Vinyl Acetate	+++++	0.22628	0.19755	0.21386	0.20412	0.22583						
	0.23180	0.22464	0.21465	0.22317			AVRG		0.21799		5.20621	
22 1,1-Dichloroethane	+++++	0.57717	0.62919	0.64029	0.63504	0.61014						
	0.62387	0.62041	0.60460	0.62566			AVRG		0.61848		3.08798	
23 Chloroprene	+++++	502	641	1113	3864	13108						
	35862	72849	113664	154749			QUAD	0.00099	8.98934	-2.46774	0.99993	<-
24 2-Butanone	+++++	0.24387	0.22111	0.23942	0.21241	0.21898						
	0.22473	0.22060	0.21355	0.22250			AVRG		0.22413		4.79504	
25 Methacrylonitrile	+++++	0.32829	0.24354	0.24727	0.22924	0.22863						
	0.24337	0.25691	0.22884	+++++			AVRG		0.25076		13.14061	

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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
26 2,2-Dichloropropane	+++++	0.47903	0.38261	0.44750	0.50803	0.47530					
	0.49089	0.49994	0.48944	0.50495			AVRG		0.47530		8.27613
27 cis-1,2-Dichloroethene	+++++	0.42610	0.40889	0.41153	0.41485	0.38907					
	0.39910	0.39982	0.39041	0.40371			AVRG		0.40483		2.93480
28 Chloroform	+++++	0.61526	0.61781	0.65936	0.63090	0.62639					
	0.63871	0.63280	0.61320	0.63331			AVRG		0.62975		2.25826
29 Bromochloromethane	+++++	0.25566	0.19403	0.21249	0.19918	0.19743					
	0.19188	0.18610	0.17911	0.17967			AVRG		0.19951		11.75907
31 1,1,1-Trichloroethane	+++++	1022	2166	5171	15490	59646					
	156935	318054	476225	639124			QUAD	0.00375	2.01029	-0.06575	0.99984
32 1,1-Dichloropropene	+++++	0.24589	0.25029	0.29483	0.32506	0.30934					
	0.32150	0.33062	0.32671	0.33877			AVRG		0.30478		11.33766
33 1,2-Dichloroethane	+++++	0.34251	0.33666	0.35893	0.34755	0.33877					
	0.34355	0.33473	0.32774	0.33149			AVRG		0.34021		2.74341

ALS Laboratory Group

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34 Carbon Tetrachloride	+++++	889	1594	3584	10595	44839						
	121718	258920	392459	533686			QUAD	0.01471	3.68705	-0.34914	0.99988	
37 Benzene	+++++	1.03143	1.00801	0.98663	1.04011	0.99625						
	1.01858	1.00734	0.99454	1.01384			AVRG		1.01075		1.72604	
38 Trichloroethene	+++++	0.19649	0.20770	0.24090	0.26069	0.25175						
	0.26119	0.26139	0.25825	0.26805			AVRG		0.24516		10.48889	<-
39 Bromodichloromethane	+++++	0.25111	0.26346	0.29224	0.28217	0.28870						
	0.31044	0.32142	0.31887	0.33073			AVRG		0.29546		9.20145	
40 Methyl Methacrylate	+++++	0.19820	0.15574	0.14190	0.14357	0.13617						
	0.14161	0.14377	0.13562	+++++			AVRG		0.14957		13.76847	
41 2-Chloroethylvinyl ether	+++++	0.13937	0.13957	0.15863	0.14561	0.16553						
	0.17868	0.18298	0.18237	0.19152			AVRG		0.16492		12.19372	
42 1,2-Dichloropropane	+++++	0.26091	0.28797	0.29337	0.28019	0.26267						
	0.26747	0.26463	0.26464	0.27111			AVRG		0.27255		4.33365	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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
43 2-Nitropropane	+++++	0.23564	0.27782	0.27515	0.25331	0.27510					
	0.31695	0.31550	0.33088	+++++			AVRG		0.28504		11.66745
44 Dibromomethane	+++++	0.15711	0.17579	0.16770	0.15717	0.15901					
	0.16434	0.16081	0.15861	0.16164			AVRG		0.16247		3.74008
45 4-Methyl-2-Pentanone	+++++	0.37083	0.35634	0.37396	0.35113	0.34920					
	0.36291	0.36065	0.34980	0.36275			AVRG		0.35973		2.48780
46 cis-1,3-Dichloropropene	+++++	0.33097	0.35277	0.35877	0.35688	0.38119					
	0.40946	0.41563	0.41218	0.42613			AVRG		0.38266		8.94262
49 Ethyl Methacrylate	+++++	0.37210	0.35288	0.34343	0.33529	0.32335					
	0.33148	0.33940	0.33025	0.34308			AVRG		0.34125		4.23509
50 Toluene	+++++	1.16428	1.17849	1.20253	1.23790	1.16740					
	1.18687	1.17347	1.14743	1.17901			AVRG		1.18193		2.19529
51 trans-1,3-Dichloropropene	+++++	0.25829	0.27860	0.27739	0.30158	0.31941					
	0.34792	0.35361	0.35096	0.36322			AVRG		0.31678		12.38745

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	
52 2-Hexanone	+++++	0.24587	0.22626	0.24934	0.24543	0.24914						
	0.25363	0.25151	0.24368	0.25535			AVRG		0.24669		3.47515	
53 1,1,2-Trichloroethane	+++++	0.21286	0.22468	0.24029	0.22770	0.22673						
	0.22956	0.22779	0.21945	0.22530			AVRG		0.22604		3.28568	
54 1,3-Dichloropropane	+++++	0.50369	0.52896	0.51376	0.50350	0.50023						
	0.49872	0.48923	0.47584	0.48840			AVRG		0.50026		3.07207	
55 Dibromochloromethane	+++++	818	1599	3603	9049	41204						
	113455	232842	347940	466913			LINR	0.02865	0.29601		0.99954	
56 Tetrachloroethene	+++++	538	1203	3267	9348	36359						
	91225	182594	272925	365420			LINR	0.01323	0.23096		0.99968	<-
57 1,2-Dibromoethane	+++++	0.24013	0.25967	0.26277	0.26548	0.26612						
	0.27577	0.27071	0.26176	0.27049			AVRG		0.26365		3.85472	
58 1-Chlorohexane	+++++	4560	5347	7336	14162	41680						
	102908	204533	304200	417188			QUAD	-0.04133	4.78005	-0.56069	0.99978	

ALS Laboratory Group

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Last Edit : 30-May-2024 17:05 s.zaid

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	
59 Chlorobenzene	+++++	0.79477	0.79582	0.81111	0.79636	0.74499						
	0.76660	0.75108	0.73882	0.76433			AVRG		0.77376		3.39983	
60 1,1,1,2-Tetrachloroethane	+++++	0.23032	0.22882	0.24666	0.24429	0.24909						
	0.26607	0.26936	0.26809	0.27689			AVRG		0.25329		6.93210	
61 Ethylbenzene	+++++	0.31379	0.35463	0.35505	0.38909	0.38102						
	0.39362	0.38975	0.38812	0.39973			AVRG		0.37387		7.40431	
62 m,p-Xylenes	+++++	0.40468	0.43150	0.46633	0.49650	0.47807						
	0.49465	0.48745	0.48258	0.50129			AVRG		0.47145		6.93878	
63 o-Xylene	+++++	0.40563	0.47752	0.47276	0.48833	0.47858						
	0.48071	0.47824	0.47421	0.48810			AVRG		0.47156		5.36603	
64 Styrene	+++++	0.65485	0.77266	0.82499	0.84751	0.83845						
	0.85820	0.85344	0.83728	0.87074			AVRG		0.81757		8.20915	
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	+++++	472	1148	2518	6063	28092					
	78639	163070	247663	342027			QUAD	0.01208	5.30988	-0.83235	0.99982
67 Isopropylbenzene	+++++	0.90885	0.95491	1.03438	1.18969	1.17939					
	1.21534	1.20456	1.19146	1.23711			AVRG		1.12397		11.00835
68 1,1,2,2-Tetrachloroethane	+++++	0.73132	0.77105	0.74052	0.74065	0.72633					
	0.75866	0.73395	0.71143	0.73640			AVRG		0.73892		2.35899
71 1,2,3-Trichloropropane	+++++	0.65942	0.76348	0.83232	0.78038	0.77712					
	0.81016	0.81863	0.80555	0.84018			AVRG		0.78747		6.91649
72 trans-1,4-Dichloro-2-butene	+++++	0.08658	0.07802	0.09517	0.09188	0.09322					
	0.10009	0.09964	0.09809	0.10518			AVRG		0.09421		8.61520
73 n-Propylbenzene	+++++	2.06245	1.99588	2.26545	2.54439	2.53513					
	2.67466	2.54585	2.51742	2.63182			AVRG		2.41923		10.28598
74 Bromobenzene	+++++	0.54565	0.63662	0.61198	0.62340	0.60507					
	0.62829	0.61713	0.60844	0.63170			AVRG		0.61203		4.42919

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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	Coefficients m1	Coefficients m2	%RSD or R^2
75 1,3,5-Trimethylbenzene	+++++	1.75253	1.63983	1.77508	1.81976	1.79810					
	1.89682	1.86937	1.84589	1.91871			AVRG		1.81290		4.68897
76 2-Chlorotoluene	+++++	1.49678	1.62584	1.61349	1.61379	1.53656					
	1.59457	1.54479	1.50599	1.59003			AVRG		1.56909		3.11703
77 4-Chlorotoluene	+++++	1.69292	1.84424	1.75431	1.86022	1.78031					
	1.85910	1.82031	1.78186	1.85628			AVRG		1.80550		3.19700
78 tert-Butylbenzene	+++++	1.09220	1.16426	1.34256	1.57219	1.49356					
	1.61605	1.57734	1.55616	1.61161			AVRG		1.44733		13.80010
79 1,2,4-Trimethylbenzene	+++++	9000	12524	21829	46212	167361					
	415974	804949	1177892	1595372			LINR	-0.00766	1.86698		0.99939
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.44808	1.55357	1.81953	2.11490	2.04828					
	2.18197	2.17639	2.12751	2.20591			AVRG		1.96402		14.66044

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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	
82 p-Isopropyltoluene	+++++	1.42169	1.52605	1.68273	1.87890	1.84821						
	1.96562	1.93285	1.90145	1.98607			AVRG		1.79373		11.32479	
83 1,3-Dichlorobenzene	+++++	1.25103	1.24983	1.23692	1.16973	1.11478						
	1.14660	1.12901	1.10723	1.15297			AVRG		1.17312		4.93710	
84 1,4-Dichlorobenzene	+++++	1.25103	1.24983	1.23692	1.16973	1.11478						
	1.14660	1.12901	1.10723	1.15297			AVRG		1.17312		4.93710	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	169595	195284	191781	186522	263172						
	399399	648793	895771	1179027			QUAD	-0.80546	1.93863	-0.11169	0.99926	
87 n-Butylbenzene	+++++	12375	17572	24775	49020	154006						
	385033	751393	1105501	1515098			QUAD	-0.03433	0.61871	-0.00773	0.99957	
88 1,2-Dichlorobenzene	+++++	1.11678	1.13673	1.12100	1.09040	1.04512						
	1.09544	1.06031	1.03475	1.08790			AVRG		1.08760		3.21690	

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89 1,2-Dibromo-3-Chloropropane	+++++	0.08738	0.11264	0.10989	0.09788	0.10779					
	0.11293	0.11820	0.11475	0.12213			AVRG		0.10929		9.76659
90 1,2,4-Trichlorobenzene	+++++	0.76636	0.73985	0.72835	0.72990	0.70661					
	0.78713	0.76152	0.74500	0.79354			AVRG		0.75092		3.81067
91 Hexachlorobutadiene	+++++	457	933	2265	6272	25881					
	67861	131823	199038	271511			QUAD	-0.00116	3.42936	-0.24547	0.99971
92 Naphthalene	+++++	1.87586	1.88462	1.85191	1.77685	1.74052					
	1.88294	1.83625	1.78649	1.87427			AVRG		1.83441		2.91767
93 1,2,3-Trichlorobenzene	+++++	0.60754	0.70108	0.65699	0.63805	0.63619					
	0.68229	0.66274	0.64394	0.68743			AVRG		0.65736		4.48366
130 Ethyl Acetate	+++++	0.33281	0.39527	0.48861	0.44620	0.45584					
	0.46361	0.44929	0.42931	0.44634			AVRG		0.43414		10.50294
131 Methyl Acrylate	+++++	0.55747	0.58817	0.53076	0.46709	0.47515					
	0.47478	0.48132	0.45658	0.46678			AVRG		0.49979		9.41087

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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
132 n-Butanol	+++++	0.01514	0.01326	0.01113	0.01072	0.00994					
	0.01058	0.01094	0.01038	0.01078			AVRG		0.01143		14.64053
133 Ethyl Acrylate	+++++	0.83024	0.82210	0.84092	0.87000	0.90263					
	0.91962	0.95217	0.91682	0.94625			AVRG		0.88897		5.59147
134 Cyclohexanone	+++++	0.03793	0.03729	0.03249	0.03100	0.02745					
	0.02869	0.02808	0.02592	+++++			AVRG		0.03111		14.48098
135 1,4-Dioxane	467	550	836	1553	2850	11028					
	26409	52580	73656	94350			QUAD	-0.17581	223	99	0.99965
136 n-Hexane	+++++	1129	1461	2980	11793	44794					
	117889	239677	352622	469585			QUAD	0.00642	2.63110	-0.05541	0.99976
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	936	1891	4993	17693	68149					
	171709	358690	525144	700564			LINR	0.01585	0.58450		0.99960

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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
146 Methyl Acetate	+++++	0.36573	0.48082	0.43677	0.36601	0.34621					
	0.36339	0.35904	0.34720	0.35143			AVRG		0.37962		12.33270
147 Methylcyclohexane	+++++	0.52682	0.53052	0.56484	0.57910	0.61666					
	0.62953	0.64895	0.63069	0.63960			AVRG		0.59630		7.90799
149 Isopropyl alcohol	+++++	0.03154	0.02774	0.02810	0.02450	0.02312					
	0.02342	0.02333	0.02176	+++++			AVRG		0.02544		13.11130
152 Amyl alcohol	+++++	0.00845	0.00836	0.00844	0.00879	0.00856					
	0.00913	0.00951	0.00907	0.00962			AVRG		0.00888		5.34050
150 Allyl alcohol	+++++	1129	1461	2980	11793	44794					
	117889	239677	352622	469585			QUAD	0.12846	52.62204	-1.10829	0.99976
151 4-Methyl-2-pentanol	+++++	0.09189	0.08768	0.08328	0.08571	0.08630					
	0.08882	0.09121	0.08886	0.09204			AVRG		0.08842		3.39694
148 Tert-butyl alcohol	+++++	0.03560	0.03700	0.03659	0.03384	0.03105					
	0.03111	0.03080	0.02871	0.02957			AVRG		0.03270		9.54376

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139 Diethyl ether	+++++	0.32635	0.29721	0.31482	0.27770	0.27936						
	0.27086	0.27696	0.26221	0.26333			AVRG		0.28542		7.91721	
140 1,3-Butadiene	+++++	458	490	1847	6107	23015						
	56585	116728	170571	226455			QUAD	0.00288	5.39970	-0.15841	0.99973	<-
141 Cyclohexane	+++++	6016	6509	9189	21126	65992						
	165490	327890	487776	655458			QUAD	-0.02746	1.98192	-0.06526	0.99979	
142 Tetrahydrofuran	+++++	910	1255	2179	4362	18521						
	45648	90366	130011	169578			QUAD	-0.01272	13.45840	1.20132	0.99974	
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
145 alpha-Methylstyrene	+++++	0.58296	0.73618	0.77425	0.76056	0.77290						
	0.83979	0.83221	0.81813	0.85749			AVRG		0.77494		10.67377	

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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	+++++	1.54330	1.20535	1.26070	1.14391	1.17449						
	1.15573	1.17928	1.11583	1.13282			AVRG		1.21238		10.83229	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	0.18986	0.00088	+++++			AVRG		0.09537		140	<-
159 Propylene oxide	+++++	833	1392	1618	2025	8775						
	20139	40594	58881	76273			QUAD	-0.05934	30.60614	3.67120	0.99977	

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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	Coefficients m1	Coefficients 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	+++++	0.64050	0.59857	0.58037	0.54640	0.58773						
	0.61612	0.65483	0.64018	0.66741			AVRG		0.61468		6.44012	
163 Butyl methacrylate	+++++	0.84737	0.62239	0.69127	0.65030	0.63918						
	0.66647	0.70721	0.67428	0.70050			AVRG		0.68878		9.56041	
164 Dicyclopentadiene	+++++	8272	12758	21873	49929	192648						
	454704	934060	1352367	1741233			LINR	-0.01508	2.08035		0.99968	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.94094	1.88737	1.77050	1.62898	1.63849						
	1.63661	1.64649	1.57538	1.61690			AVRG		1.70463		7.65107	

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167 Ethanol	+++++	326	762	1307	2691	9811					
	25050	49014	72293	97797			QUAD	-0.32474	263	-50.25129	0.99959
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	+++++	0.40092	0.38445	0.37383	0.37392	0.34679					
	0.35330	0.36069	0.34324	+++++			AVRG		0.36714		5.39853
173 3,3-Dimethyl-1-butanol	+++++	0.03684	0.03374	0.03346	0.03461	0.03311					
	0.03361	0.03478	0.03342	0.03537			AVRG		0.03433		3.51016
174 tert-Amyl methyl ether	+++++	1.36480	1.18868	1.28442	1.12145	1.15123					
	1.13549	1.15156	1.08306	1.17545			AVRG		1.18402		7.40199
175 tert-Butyl ethyl ether	+++++	1.22761	1.18308	1.23074	1.09866	1.11835					
	1.10712	1.12749	1.07065	1.09239			AVRG		1.13956		5.21495

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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	
176 tert-Amyl alcohol	+++++ / 0.03533	0.03468 / 0.03607	0.03845 / 0.03432	0.03738 / +++++	0.03739	0.03463	AVRG		0.03603		4.28439	
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	+++++ / 0.02105	0.02492 / 0.02183	0.02437 / 0.02106	0.02256 / 0.02142	0.02123	0.01981	AVRG		0.02203		7.52153	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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	+++++	0.08199	0.10751	0.07468	0.09171	0.08165						
	0.08174	0.08602	0.08350	0.08609			AVRG		0.08610		10.72993	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.52881	0.56700	0.54515	0.57899	0.56312						
	0.59690	0.60699	0.60375	0.63322			AVRG		0.58044		5.68108	
188 Isopropyl acetate	+++++	0.73941	0.83309	0.77474	0.89083	0.78937						
	0.80143	0.81206	0.87030	0.89398			AVRG		0.82280		6.51785	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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	+++++	0.51781	0.52848	0.53234	0.53417	0.54385						
	0.56738	0.56494	0.55960	0.57221			AVRG		0.54675		3.60946	
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	+++++	+++++	+++++	533	6165	33769						
	81515	167368	236664	334705			QUAD	0.00040	15.96956	-1.40727	0.99789	<-
195 Methyl Amyl Ketone	+++++	0.71919	0.70561	0.72682	0.71289	0.68432						
	0.71232	0.73603	0.71279	0.74880			AVRG		0.71764		2.57169	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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	+++++	521	1296	2432	6025	29396						
	98429	275130	449583	+++++			QUAD	0.05383	3.62423	-0.91097	0.99554	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 30-May-2024 17:05 Page 24

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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	+++++	441	644	1320	4785	18551					
	44790	102024	144290	198984			QUAD	0.00781	6.58526	-0.86583	0.99866
203 2-Ethylhexyl Acrylate	+++++	3380	4851	7775	14217	54140					
	138755	287686	410272	556159			QUAD	-0.00974	1.59297	-0.02633	0.99936
M 94 1,2-Dichloroethylene (total)	+++++	0.36831	0.38878	0.36273	0.38205	0.35998					
	0.36729	0.36860	0.36079	0.37294			AVRG		0.37016		2.62703
M 95 Xylenes (total)	+++++	0.36847	0.39921	0.41940	0.44308	0.43041					
	0.43975	0.43552	0.43180	0.44659			AVRG		0.42380		5.94316
$ 30 Dibromofluoromethane	+++++	+++++	+++++	0.35889	0.32763	0.30483					
	0.32698	0.33311	0.31222	0.32357			AVRG		0.32675		5.26521
$ 35 1,2-Dichloroethane-d4	+++++	+++++	+++++	0.45904	0.42104	0.36945					
	0.38166	0.38734	0.35902	0.37298			AVRG		0.39293		8.94879
$ 48 Toluene-d8	+++++	+++++	+++++	1.05969	0.99558	0.88848					
	0.93086	0.94764	0.89172	0.92572			AVRG		0.94853		6.41845

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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							
$ 69 4-Bromofluorobenzene	+++++	+++++	+++++	0.46465	0.37903	0.34239					
	0.34865	0.34985	0.32824	0.34378			AVRG		0.36523		12.71357

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAY-2024 12:19
End Cal Date : 16-MAY-2024 15:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\8260C.m
Last Edit : 30-May-2024 17:05 s.zaid

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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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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 Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U051614.D	**Inj Date**	16-MAY-2024 1638

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	52.5	105	80-120	
1,1,1-Trichloroethane	50.0	50.3	101	80-120	
1,1,2,2-Tetrachloroethane	50.0	50.3	101	80-120	
Freon TF	50.0	47.8	95.6	80-120	
Methyl acetate	50.0	47.6	95.1	80-120	
Cyclohexane	50.0	49.2	98.4	80-120	
Methylcyclohexane	50.0	51.8	104	80-120	
Carbon Disulfide	100	108	108	80-120	
2-Hexanone	100	102	102	80-120	
1,1,2-Trichloroethane	50.0	50.5	101	80-120	
1,1-Dichloroethane	50.0	50.5	101	80-120	
1,1-Dichloroethene	50.0	52.9	106	80-120	
1,1-Dichloropropene	50.0	52.9	106	80-120	
1,2,3-Trichlorobenzene	50.0	49.6	99.1	80-120	
1,2,3-Trichloropropane	50.0	51.1	102	80-120	
1,2,4-Trichlorobenzene	50.0	50.0	100.0	80-120	
1,2,4-Trimethylbenzene	50.0	49.6	99.2	80-120	
1,2-Dibromo-3-Chloropropane	50.0	50.7	101	80-120	
1,2-Dibromoethane	50.0	51.6	103	80-120	
Acrolein	100	118	118	80-120	
Acrylonitrile	100	98.6	98.6	80-120	
1,2-Dichlorobenzene	50.0	49.2	98.4	80-120	
1,2-Dichloroethane	50.0	50.4	101	80-120	
1,2-Dichloropropane	50.0	49.4	98.9	80-120	
1,3,5-Trimethylbenzene	50.0	50.7	101	80-120	
1,3-Dichlorobenzene	50.0	48.6	97.2	80-120	
1,3-Dichloropropane	50.0	49.4	98.8	80-120	
1,4-Dichlorobenzene	50.0	48.6	97.2	80-120	
1-Chlorohexane	50.0	49.6	99.2	80-120	
2,2-Dichloropropane	50.0	49.3	98.6	80-120	
2-Butanone	100	99.3	99.3	80-120	
2-Chloroethylvinyl ether	100	108	108	80-120	
2-Chlorotoluene	50.0	50.3	101	80-120	
4-Chlorotoluene	50.0	50.1	100	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U051614.D	**Inj Date**	16-MAY-2024 1638

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	52.9	106	80-120	
4-Methyl-2-Pentanone	100	99.3	99.3	80-120	
Acetone	100	107	107	80-120	
Acetonitrile	500	482	96.4	80-120	
Allyl Chloride	50.0	48.4	96.8	80-120	
Benzene	50.0	50.0	99.9	80-120	
Bromobenzene	50.0	50.9	102	80-120	
Bromochloromethane	50.0	48.2	96.4	80-120	
Bromodichloromethane	50.0	52.9	106	80-120	
Bromoform	50.0	50.4	101	80-120	
Bromomethane	50.0	65.9	132	80-120	*
Carbon Tetrachloride	50.0	50.2	100	80-120	
Chlorobenzene	50.0	48.5	96.9	80-120	
Chloroethane	50.0	50.0	100.0	80-120	
Chloroform	50.0	50.3	101	80-120	
Chloromethane	50.0	43.4	86.8	80-120	
Chloroprene	50.0	51.2	102	80-120	
cis-1,2-Dichloroethene	50.0	49.6	99.1	80-120	
cis-1,3-Dichloropropene	50.0	53.2	106	80-120	
Dibromochloromethane	50.0	49.0	98.0	80-120	
Dibromomethane	50.0	50.2	100	80-120	
Dichlorodifluoromethane	50.0	49.6	99.2	80-120	
Ethylbenzene	50.0	51.4	103	80-120	
Ethyl Methacrylate	50.0	46.8	93.6	80-120	
Iodomethane	100	187	187	80-120	*
Isobutyl Alcohol	1000	927	92.7	70-130	
Propionitrile	500	467	93.4	70-130	
Hexachlorobutadiene	50.0	49.9	99.8	80-120	
Isopropylbenzene	50.0	52.6	105	80-120	
m,p-Xylenes	100	102	102	80-120	
Methyl tert-butyl ether	50.0	47.0	94.1	80-120	
Methylene Chloride	50.0	50.2	100	80-120	
Methacrylonitrile	50.0	47.6	95.1	80-120	
Methyl Methacrylate	50.0	46.2	92.4	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U051614.D	**Inj Date**	16-MAY-2024 1638

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	50.5	101	80-120	
n-Propylbenzene	50.0	53.6	107	80-120	
Naphthalene	50.0	48.9	97.8	80-120	
o-Xylene	50.0	50.3	101	80-120	
sec-Butylbenzene	50.0	53.9	108	80-120	
Styrene	50.0	52.2	104	80-120	
tert-Butylbenzene	50.0	54.4	109	80-120	
Tetrachloroethene	50.0	49.2	98.3	80-120	
Toluene	50.0	49.6	99.2	80-120	
trans-1,2-Dichloroethene	50.0	49.4	98.9	80-120	
trans-1,3-Dichloropropene	50.0	53.8	108	80-120	
trans-1,4-Dichloro-2-butene	50.0	48.6	97.2	80-120	
Trichloroethene	50.0	52.8	106	80-120	
Trichlorofluoromethane	50.0	49.8	99.7	80-120	
Vinyl Acetate	100	105	105	80-120	
Vinyl Chloride	50.0	52.5	105	80-120	
Methyl Acrylate	50.0	47.0	94.0	80-120	
Ethyl Acrylate	50.0	51.0	102	80-120	
Butyl acrylate	50.0	48.8	97.6	80-120	
2-Ethylhexyl Acrylate	50.0	46.6	93.2	80-120	
Allyl alcohol	1000	942	94.2	80-120	
1,2-Dichloroethylene (total)	100	99.0	99.0	80-120	
Xylenes (total)	150	153	102	80-120	
1,4-Dioxane	1000	915	91.5	80-120	
Dibromofluoromethane	50.0	50.2	100	71-125	
1,2-Dichloroethane-d4	50.0	49.1	98.2	70-125	
Toluene-d8	50.0	48.8	97.6	75-125	
4-Bromofluorobenzene	50.0	48.1	96.2	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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 Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 0401
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
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	47.3	0.253	0.100	5.48	20.0	Quadratic	
Chloromethane	50.0	40.7	0.821	0.100	18.6	20.0	Quadratic	
Propionitrile	0.062	0.055	0.055	0.010	11.4	20.0	Averaged	
Vinyl Chloride	0.398	0.384	0.384	0.100	3.53	20.0	Averaged	
Bromomethane	50.0	57.1	0.152	0.100	-14.135	20.0	Linear	
Chloroethane	50.0	46.0	0.267	0.100	7.96	20.0	Linear	
Trichlorofluoromethane	50.0	47.3	0.449	0.100	5.35	20.0	Quadratic	
Acrolein	100	116	0.017	0.010	-15.794	20.0	Quadratic	
Acetone	100	109	0.162	0.100	-8.996	20.0	Quadratic	
1,1-Dichloroethene	0.282	0.270	0.270	0.100	4.21	20.0	Averaged	
Isobutyl Alcohol	0.063	0.055	0.055	0.005	12.6	20.0	Averaged	
Acetonitrile	0.041	0.038	0.038	0.005	6.11	20.0	Averaged	
Allyl Chloride	1.02	0.938	0.938	0.100	7.61	20.0	Averaged	
Iodomethane	100	132	0.048	0.100	-31.903	20.0	Quadratic	*
Acrylonitrile	100	91.9	0.136	0.050	8.08	20.0	Quadratic	
Methylene Chloride	50.0	44.9	0.347	0.100	10.2	20.0	Quadratic	
Methyl tert-butyl ether	1.03	0.910	0.910	0.100	11.7	20.0	Averaged	
Carbon Disulfide	0.858	0.828	0.828	0.100	3.52	20.0	Averaged	
trans-1,2-Dichloroethene	0.336	0.304	0.304	0.100	9.54	20.0	Averaged	
Vinyl Acetate	0.218	0.213	0.213	0.010	2.30	20.0	Averaged	
1,1-Dichloroethane	0.618	0.582	0.582	0.200	5.91	20.0	Averaged	
Chloroprene	50.0	46.7	0.107	0.100	6.69	20.0	Quadratic	
2-Butanone	0.224	0.208	0.208	0.100	7.22	20.0	Averaged	
Methacrylonitrile	0.251	0.224	0.224	0.100	10.8	20.0	Averaged	
2,2-Dichloropropane	0.475	0.380	0.380	0.100	20.0	20.0	Averaged	
cis-1,2-Dichloroethene	0.405	0.372	0.372	0.100	8.07	20.0	Averaged	
Chloroform	0.630	0.601	0.601	0.200	4.53	20.0	Averaged	
Bromochloromethane	0.200	0.184	0.184	0.100	7.81	20.0	Averaged	
30 Dibromofluoromethane	0.327	0.361	0.361	0.100	-10.416	20.0	Averaged	
1,1,1-Trichloroethane	50.0	46.0	0.463	0.100	8.03	20.0	Quadratic	
1,1-Dichloropropene	0.305	0.306	0.306	0.100	-0.446	20.0	Averaged	
1,2-Dichloroethane	0.340	0.328	0.328	0.100	3.55	20.0	Averaged	
Carbon Tetrachloride	50.0	46.7	0.256	0.100	6.59	20.0	Quadratic	
35 1,2-Dichloroethane-d4	0.393	0.428	0.428	0.100	-9.001	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 0401
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
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	1.01	0.954	0.954	0.500	5.62	20.0	Averaged	
Trichloroethene	0.245	0.243	0.243	0.200	1.07	20.0	Averaged	
Bromodichloromethane	0.295	0.290	0.290	0.200	1.91	20.0	Averaged	
Methyl Methacrylate	0.150	0.125	0.125	0.100	16.3	20.0	Averaged	
2-Chloroethylvinyl ether	0.165	0.157	0.157	0.001	4.85	20.0	Averaged	
1,2-Dichloropropane	0.273	0.261	0.261	0.100	4.32	20.0	Averaged	
2-Nitropropane	0.285	0.289	0.289	0.000	-1.351	20.0	Averaged	
Dibromomethane	0.162	0.154	0.154	0.100	5.35	20.0	Averaged	
4-Methyl-2-Pentanone	0.360	0.338	0.338	0.100	6.01	20.0	Averaged	
cis-1,3-Dichloropropene	0.383	0.363	0.363	0.200	5.13	20.0	Averaged	
48 Toluene-d8	0.949	1.10	1.10	0.100	-16.190	20.0	Averaged	
Ethyl Methacrylate	0.341	0.288	0.288	0.100	15.6	20.0	Averaged	
Toluene	1.18	1.12	1.12	0.400	5.35	20.0	Averaged	
trans-1,3-Dichloropropene	0.317	0.300	0.300	0.100	5.39	20.0	Averaged	
2-Hexanone	0.247	0.227	0.227	0.100	8.07	20.0	Averaged	
1,1,2-Trichloroethane	0.226	0.216	0.216	0.100	4.26	20.0	Averaged	
1,3-Dichloropropane	0.500	0.476	0.476	0.100	4.89	20.0	Averaged	
Dibromochloromethane	50.0	45.3	0.260	0.100	9.38	20.0	Linear	
Tetrachloroethene	50.0	46.4	0.211	0.200	7.30	20.0	Linear	
1,2-Dibromoethane	0.264	0.255	0.255	0.100	3.19	20.0	Averaged	
1-Chlorohexane	50.0	46.2	0.207	0.100	7.60	20.0	Quadratic	
Chlorobenzene	0.774	0.721	0.721	0.500	6.77	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.253	0.248	0.248	0.100	2.18	20.0	Averaged	
Ethylbenzene	0.374	0.366	0.366	0.100	2.10	20.0	Averaged	
m,p-Xylenes	0.471	0.459	0.459	0.100	2.71	20.0	Averaged	
o-Xylene	0.472	0.457	0.457	0.300	3.13	20.0	Averaged	
Styrene	0.818	0.803	0.803	0.300	1.79	20.0	Averaged	
Bromoform	50.0	44.2	0.168	0.100	11.7	20.0	Quadratic	
Isopropylbenzene	1.12	1.13	1.13	0.100	-0.143	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.739	0.670	0.670	0.300	9.30	20.0	Averaged	
69 4-Bromofluorobenzene	0.365	0.411	0.411	0.100	-12.514	20.0	Averaged	
1,2,3-Trichloropropane	0.787	0.697	0.697	0.100	11.5	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.094	0.079	0.079	0.050	16.3	20.0	Averaged	
n-Propylbenzene	2.42	2.41	2.41	0.100	0.468	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 0401
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.612	0.576	0.576	0.100	5.83	20.0	Averaged	
1,3,5-Trimethylbenzene	1.81	1.73	1.73	0.100	4.70	20.0	Averaged	
2-Chlorotoluene	1.57	1.48	1.48	0.100	5.98	20.0	Averaged	
4-Chlorotoluene	1.81	1.71	1.71	0.100	5.35	20.0	Averaged	
tert-Butylbenzene	1.45	1.46	1.46	0.100	-1.076	20.0	Averaged	
1,2,4-Trimethylbenzene	50.0	45.9	1.73	0.100	8.18	20.0	Linear	
sec-Butylbenzene	1.96	1.95	1.95	0.100	0.484	20.0	Averaged	
p-Isopropyltoluene	1.79	1.74	1.74	0.100	3.05	20.0	Averaged	
1,3-Dichlorobenzene	1.17	1.05	1.05	0.600	10.2	20.0	Averaged	
1,4-Dichlorobenzene	1.17	1.05	1.05	0.400	10.2	20.0	Averaged	
Benzyl Chloride	50.0	++++	0.375	0.010	++++	20.0	Quadratic	*
n-Butylbenzene	50.0	44.2	1.51	0.500	11.6	20.0	Quadratic	
1,2-Dichlorobenzene	1.09	1.01	1.01	0.400	7.30	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.109	0.092	0.092	0.050	16.1	20.0	Averaged	
1,2,4-Trichlorobenzene	0.751	0.680	0.680	0.200	9.38	20.0	Averaged	
Hexachlorobutadiene	50.0	46.0	0.274	0.100	8.04	20.0	Quadratic	
Naphthalene	1.83	1.65	1.65	0.200	10.2	20.0	Averaged	
1,2,3-Trichlorobenzene	0.657	0.614	0.614	0.100	6.59	20.0	Averaged	
Methyl Acetate	0.380	0.390	0.390	0.100	-2.802	20.0	Averaged	
Freon TF	50.0	45.1	0.518	0.100	9.87	20.0	Linear	
Cyclohexane	50.0	47.2	0.498	0.100	5.69	20.0	Quadratic	
Tetrahydrofuran	100	92.1	0.068	0.001	7.87	20.0	Quadratic	
Methylcyclohexane	0.596	0.599	0.599	0.100	-0.527	20.0	Averaged	
1,4-Dioxane	1000	804	0.004	0.001	19.6	20.0	Quadratic	
n-Butanol	0.011	0.009	0.009	0.005	19.3	20.0	Averaged	
n-Hexane	50.0	40.1	0.304	0.100	19.8	20.0	Quadratic	
Diethyl ether	0.285	0.260	0.260	0.100	9.00	20.0	Averaged	
Tert-butyl alcohol	0.033	0.026	0.026	0.005	19.9	20.0	Averaged	
Isopropyl alcohol	0.025	0.020	0.020	0.005	19.6	20.0	Averaged	
Amyl alcohol	0.009	0.008	0.008	0.005	12.4	20.0	Averaged	
Diisopropyl ether	1.21	1.14	1.14	0.100	5.64	20.0	Averaged	
Butyl acrylate	0.615	0.525	0.525	0.100	14.6	20.0	Averaged	
n-Amyl acetate	0.580	0.535	0.535	0.100	7.84	20.0	Averaged	
Dicyclopentadiene	50.0	49.6	2.10	0.100	0.720	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050838

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U051802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 0401
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.59	1.59	0.100	6.80	20.0	Averaged	
Ethanol	1000	989	0.004	0.001	1.05	20.0	Quadratic	
tert-Butyl formate	0.367	0.296	0.296	0.100	19.4	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.034	0.029	0.029	0.005	14.6	20.0	Averaged	
tert-Amyl methyl ether	1.18	1.10	1.10	0.005	7.30	20.0	Averaged	
tert-Butyl ethyl ether	1.14	1.05	1.05	0.100	7.76	20.0	Averaged	
tert-Amyl alcohol	0.036	0.029	0.029	0.005	20.1	20.0	Averaged	*
4-Methyl-2-pentanol	0.088	0.078	0.078	0.005	12.1	20.0	Averaged	
1,3-Butadiene	50.0	46.5	0.172	0.100	7.06	20.0	Quadratic	
Epichlorohydrin	0.022	0.020	0.020	0.001	8.65	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.370	0.338	0.338	0.200	8.73	20.0	Averaged	
95 Xylenes (total)	0.424	0.410	0.410	0.100	3.16	20.0	Averaged	
alpha-Methylstyrene	0.775	0.744	0.744	0.100	3.97	20.0	Averaged	
Ethyl Acetate	0.434	0.426	0.426	0.100	1.89	20.0	Averaged	
Methyl Acrylate	0.500	0.449	0.449	0.100	10.1	20.0	Averaged	
n-Butyl acetate	0.547	0.503	0.503	0.100	8.03	20.0	Averaged	
Cyclohexanone	0.031	0.025	0.025	0.005	19.4	20.0	Averaged	
Isoprene	0.086	0.079	0.079	0.010	7.85	20.0	Averaged	
Isopropyl acetate	0.823	0.757	0.757	0.100	8.04	20.0	Averaged	
Allyl alcohol	1000	808	0.015	0.004	19.2	20.0	Quadratic	
Acetaldehyde	200	200	0.064	0.001	-0.041	20.0	Quadratic	
Methyl Amyl Ketone	0.718	0.628	0.628	0.100	12.5	20.0	Averaged	
Dimethyl Disulfide	50.0	34.7	0.185	0.020	30.6	20.0	Quadratic	*
Isobutylene	50.0	48.8	0.150	0.010	2.38	20.0	Quadratic	
Ethyl Acrylate	0.889	0.872	0.872	0.100	1.92	20.0	Averaged	
Butyl methacrylate	0.689	0.587	0.587	0.100	14.8	20.0	Averaged	
Propylene oxide	100	88.0	0.030	0.005	12.0	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	41.3	0.529	0.100	17.4	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050838

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U051829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 1344
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
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	46.6	0.250	0.100	6.82	50.0	Quadratic	
Chloromethane	50.0	43.8	0.872	0.100	12.4	50.0	Quadratic	
Propionitrile	0.062	0.057	0.057	0.010	7.52	50.0	Averaged	
Vinyl Chloride	0.398	0.395	0.395	0.100	0.624	50.0	Averaged	
Bromomethane	50.0	54.8	0.146	0.100	-9.549	50.0	Linear	
Chloroethane	50.0	47.1	0.273	0.100	5.72	50.0	Linear	
Trichlorofluoromethane	50.0	48.0	0.456	0.100	3.91	50.0	Quadratic	
Acrolein	100	131	0.019	0.010	-30.914	50.0	Quadratic	
Acetone	100	106	0.158	0.100	-6.495	50.0	Quadratic	
1,1-Dichloroethene	0.282	0.278	0.278	0.100	1.65	50.0	Averaged	
Isobutyl Alcohol	0.063	0.055	0.055	0.005	12.7	50.0	Averaged	
Acetonitrile	0.041	0.038	0.038	0.005	6.09	50.0	Averaged	
Allyl Chloride	1.02	0.956	0.956	0.100	5.81	50.0	Averaged	
Iodomethane	100	88.6	0.030	0.100	11.4	50.0	Quadratic	
Acrylonitrile	100	95.3	0.141	0.050	4.66	50.0	Quadratic	
Methylene Chloride	50.0	46.0	0.355	0.100	8.01	50.0	Quadratic	
Methyl tert-butyl ether	1.03	0.927	0.927	0.100	10.1	50.0	Averaged	
Carbon Disulfide	0.858	0.808	0.808	0.100	5.79	50.0	Averaged	
trans-1,2-Dichloroethene	0.336	0.305	0.305	0.100	9.04	50.0	Averaged	
Vinyl Acetate	0.218	0.217	0.217	0.010	0.381	50.0	Averaged	
1,1-Dichloroethane	0.618	0.595	0.595	0.200	3.80	50.0	Averaged	
Chloroprene	++++	++++	1.185e+60	0.100	++++	50.0	Quadratic	*
2-Butanone	0.224	0.211	0.211	0.100	5.65	50.0	Averaged	
Methacrylonitrile	0.251	0.235	0.235	0.100	6.11	50.0	Averaged	
2,2-Dichloropropane	0.475	0.276	0.276	0.100	42.0	50.0	Averaged	
cis-1,2-Dichloroethene	0.405	0.376	0.376	0.100	7.08	50.0	Averaged	
Chloroform	0.630	0.610	0.610	0.200	3.11	50.0	Averaged	
Bromochloromethane	0.200	0.181	0.181	0.100	9.33	50.0	Averaged	
30 Dibromofluoromethane	0.327	0.364	0.364	0.100	-11.444	50.0	Averaged	
1,1,1-Trichloroethane	50.0	46.7	0.470	0.100	6.65	50.0	Quadratic	
1,1-Dichloropropene	0.305	0.309	0.309	0.100	-1.530	50.0	Averaged	
1,2-Dichloroethane	0.340	0.337	0.337	0.100	0.874	50.0	Averaged	
Carbon Tetrachloride	50.0	47.4	0.260	0.100	5.17	50.0	Quadratic	
35 1,2-Dichloroethane-d4	0.393	0.434	0.434	0.100	-10.426	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050838

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U051829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 1344
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
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	1.01	0.986	0.986	0.500	2.47	50.0	Averaged	
Trichloroethene	0.245	0.248	0.248	0.200	-1.258	50.0	Averaged	
Bromodichloromethane	0.295	0.291	0.291	0.200	1.39	50.0	Averaged	
Methyl Methacrylate	0.150	0.135	0.135	0.100	10.1	50.0	Averaged	
2-Chloroethylvinyl ether	0.165	0.151	0.151	0.001	8.51	50.0	Averaged	
1,2-Dichloropropane	0.273	0.263	0.263	0.100	3.55	50.0	Averaged	
2-Nitropropane	0.285	0.278	0.278	0.000	2.35	50.0	Averaged	
Dibromomethane	0.162	0.155	0.155	0.100	4.62	50.0	Averaged	
4-Methyl-2-Pentanone	0.360	0.345	0.345	0.100	4.00	50.0	Averaged	
cis-1,3-Dichloropropene	0.383	0.349	0.349	0.200	8.85	50.0	Averaged	
48 Toluene-d8	0.949	1.11	1.11	0.100	-17.221	50.0	Averaged	
Ethyl Methacrylate	0.341	0.310	0.310	0.100	9.12	50.0	Averaged	
Toluene	1.18	1.13	1.13	0.400	4.34	50.0	Averaged	
trans-1,3-Dichloropropene	0.317	0.283	0.283	0.100	10.8	50.0	Averaged	
2-Hexanone	0.247	0.230	0.230	0.100	6.87	50.0	Averaged	
1,1,2-Trichloroethane	0.226	0.220	0.220	0.100	2.74	50.0	Averaged	
1,3-Dichloropropane	0.500	0.483	0.483	0.100	3.54	50.0	Averaged	
Dibromochloromethane	50.0	44.8	0.257	0.100	10.3	50.0	Linear	
Tetrachloroethene	50.0	46.5	0.212	0.200	7.02	50.0	Linear	
1,2-Dibromoethane	0.264	0.262	0.262	0.100	0.687	50.0	Averaged	
1-Chlorohexane	50.0	44.7	0.200	0.100	10.7	50.0	Quadratic	
Chlorobenzene	0.774	0.719	0.719	0.500	7.14	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.253	0.248	0.248	0.100	2.02	50.0	Averaged	
Ethylbenzene	0.374	0.367	0.367	0.100	1.96	50.0	Averaged	
m,p-Xylenes	0.471	0.457	0.457	0.100	3.01	50.0	Averaged	
o-Xylene	0.472	0.455	0.455	0.300	3.57	50.0	Averaged	
Styrene	0.818	0.793	0.793	0.300	2.96	50.0	Averaged	
Bromoform	50.0	42.8	0.163	0.100	14.5	50.0	Quadratic	
Isopropylbenzene	1.12	1.13	1.13	0.100	-0.472	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.739	0.684	0.684	0.300	7.40	50.0	Averaged	
69 4-Bromofluorobenzene	0.365	0.411	0.411	0.100	-12.663	50.0	Averaged	
1,2,3-Trichloropropane	0.787	0.698	0.698	0.100	11.4	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.094	0.070	0.070	0.050	25.2	50.0	Averaged	
n-Propylbenzene	2.42	2.44	2.44	0.100	-0.763	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

RunID U051829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 1344
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.612	0.591	0.591	0.100	3.50	50.0	Averaged	
1,3,5-Trimethylbenzene	1.81	1.75	1.75	0.100	3.67	50.0	Averaged	
2-Chlorotoluene	1.57	1.49	1.49	0.100	4.85	50.0	Averaged	
4-Chlorotoluene	1.81	1.74	1.74	0.100	3.50	50.0	Averaged	
tert-Butylbenzene	1.45	1.48	1.48	0.100	-2.573	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	46.6	1.75	0.100	6.84	50.0	Linear	
sec-Butylbenzene	1.96	1.98	1.98	0.100	-0.766	50.0	Averaged	
p-Isopropyltoluene	1.79	1.76	1.76	0.100	2.10	50.0	Averaged	
1,3-Dichlorobenzene	1.17	1.07	1.07	0.600	9.05	50.0	Averaged	
1,4-Dichlorobenzene	1.17	1.07	1.07	0.400	9.05	50.0	Averaged	
Benzyl Chloride	50.0	++++	0.227	0.010	++++	50.0	Quadratic	*
n-Butylbenzene	50.0	43.6	1.49	0.500	12.7	50.0	Quadratic	
1,2-Dichlorobenzene	1.09	1.01	1.01	0.400	6.98	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.109	0.089	0.089	0.050	18.9	50.0	Averaged	
1,2,4-Trichlorobenzene	0.751	0.675	0.675	0.200	10.1	50.0	Averaged	
Hexachlorobutadiene	50.0	43.8	0.261	0.100	12.3	50.0	Quadratic	
Naphthalene	1.83	1.68	1.68	0.200	8.54	50.0	Averaged	
1,2,3-Trichlorobenzene	0.657	0.626	0.626	0.100	4.70	50.0	Averaged	
Methyl Acetate	0.380	0.390	0.390	0.100	-2.819	50.0	Averaged	
Freon TF	50.0	45.4	0.522	0.100	9.15	50.0	Linear	
Cyclohexane	50.0	48.1	0.507	0.100	3.87	50.0	Quadratic	
Tetrahydrofuran	100	98.5	0.073	0.001	1.47	50.0	Quadratic	
Methylcyclohexane	0.596	0.602	0.602	0.100	-1.021	50.0	Averaged	
1,4-Dioxane	1000	841	0.004	0.001	15.9	50.0	Quadratic	
n-Butanol	0.011	0.010	0.010	0.005	14.1	50.0	Averaged	
n-Hexane	50.0	35.0	0.265	0.100	29.9	50.0	Quadratic	
Diethyl ether	0.285	0.266	0.266	0.100	6.68	50.0	Averaged	
Tert-butyl alcohol	0.033	0.027	0.027	0.005	17.6	50.0	Averaged	
Isopropyl alcohol	0.025	0.021	0.021	0.005	17.0	50.0	Averaged	
Amyl alcohol	0.009	0.008	0.008	0.005	9.09	50.0	Averaged	
Diisopropyl ether	1.21	1.17	1.17	0.100	3.55	50.0	Averaged	
Butyl acrylate	0.615	0.516	0.516	0.100	16.0	50.0	Averaged	
n-Amyl acetate	0.580	0.522	0.522	0.100	10.1	50.0	Averaged	
Dicyclopentadiene	50.0	51.1	2.16	0.100	-2.281	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050838

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U051829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 18-MAY-2024 1344
ICAL Date(s) 16-MAY-2024, 16-MAY-2024
ICAL Times 12:19, 15:33
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.63	1.63	0.100	4.14	50.0	Averaged	
Ethanol	1000	989	0.004	0.001	1.10	50.0	Quadratic	
tert-Butyl formate	0.367	0.294	0.294	0.100	20.0	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.034	0.032	0.032	0.005	8.17	50.0	Averaged	
tert-Amyl methyl ether	1.18	1.09	1.09	0.005	7.64	50.0	Averaged	
tert-Butyl ethyl ether	1.14	1.06	1.06	0.100	7.34	50.0	Averaged	
tert-Amyl alcohol	0.036	0.029	0.029	0.005	18.5	50.0	Averaged	
4-Methyl-2-pentanol	0.088	0.082	0.082	0.005	7.62	50.0	Averaged	
1,3-Butadiene	50.0	47.4	0.176	0.100	5.29	50.0	Quadratic	
Epichlorohydrin	0.022	0.018	0.018	0.001	19.2	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.370	0.341	0.341	0.200	7.97	50.0	Averaged	
95 Xylenes (total)	0.424	0.410	0.410	0.100	3.22	50.0	Averaged	
alpha-Methylstyrene	0.775	0.742	0.742	0.100	4.25	50.0	Averaged	
Ethyl Acetate	0.434	0.434	0.434	0.100	-0.041	50.0	Averaged	
Methyl Acrylate	0.500	0.458	0.458	0.100	8.46	50.0	Averaged	
n-Butyl acetate	0.547	0.500	0.500	0.100	8.58	50.0	Averaged	
Cyclohexanone	0.031	0.025	0.025	0.005	19.0	50.0	Averaged	
Isoprene	0.086	0.081	0.081	0.010	6.45	50.0	Averaged	
Isopropyl acetate	0.823	0.760	0.760	0.100	7.58	50.0	Averaged	
Allyl alcohol	1000	701	0.013	0.004	29.9	50.0	Quadratic	
Acetaldehyde	200	329	0.107	0.001	-64.468	50.0	Quadratic	
Methyl Amyl Ketone	0.718	0.624	0.624	0.100	13.0	50.0	Averaged	
Dimethyl Disulfide	50.0	31.1	0.164	0.020	37.7	50.0	Quadratic	
Isobutylene	++++	++++	1.185e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	0.889	0.873	0.873	0.100	1.85	50.0	Averaged	
Butyl methacrylate	0.689	0.559	0.559	0.100	18.8	50.0	Averaged	
Propylene oxide	100	99.0	0.033	0.005	0.931	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	40.9	0.524	0.100	18.3	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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 Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24050838

EPA SW8260

VOA9_467121		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)	U051802.D	288901	#	4.81	#	420212	#	5.55	#	376502	#	8.18	#	204037	#	10.17	#
HS24050838-01	U051807.D	279851		4.82		411513		5.55		370520		8.18		191741		10.17	
HS24050838-02	U051806.D	282074		4.81		415661		5.55		373367		8.18		192944		10.17	
VBLKW-240518	U051805.D	284716		4.81		422144		5.55		379163		8.18		197814		10.17	
VLCSW-240518	U051803.D	279270		4.82		409923		5.55		366492		8.19		196234		10.17	
MS-ZZZZZZMS	U051809.D	283485		4.81		419713		5.55		370276		8.18		196218		10.17	
ZZZZZZMSD	U051810.D	289126		4.81		423971		5.55		379515		8.18		204286		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

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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 Groundwater Treatment Plant Bi-Weekly Samples

Workorder **HS24050838**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-466991

Run ID VOA9_466991 **Start Date** 05/16/24 **EndDate** 05/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:19	VSTD00.25	ICAL1	VSTD00.25	U051602.D	05/16/24	1
12:40	VSTD00.5	ICAL2	VSTD00.5	U051603.D	05/16/24	1
13:02	VSTD001	ICAL3	VSTD001	U051604.D	05/16/24	1
13:23	VSTD002	ICAL4	VSTD002	U051605.D	05/16/24	1
13:45	VSTD005	ICAL5	VSTD005	U051606.D	05/16/24	1
14:06	VSTD020	ICAL6	VSTD020	U051607.D	05/16/24	1
14:28	VSTD050	ICAL7	VSTD050	U051608.D	05/16/24	1
14:50	VSTD100	ICAL8	VSTD100	U051609.D	05/16/24	1
15:11	VSTD150	ICAL9	VSTD150	U051610.D	05/16/24	1
15:33	VSTD200	ICAL	VSTD200	U051611.D	05/16/24	1
16:38	VSTD050	ICV	VSTD050	U051614.D	05/16/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder **HS24050838**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467121

Run ID VOA9_467121 **Start Date** 05/18/24 **EndDate** 05/18/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
04:01	VSTD050	CCV	VSTD050	U051802.D	05/18/24	1
04:23	VLCSW-240518	LCS	VLCSW-240518	U051803.D	05/18/24	1
05:06	VBLKW-240518	MBLK	VBLKW-240518	U051805.D	05/18/24	1
05:28	HS24050838-02	SAMP	Trip Blank	U051806.D	05/18/24	1
05:49	HS24050838-01	SAMP	LH18/24-	U051807.D	05/18/24	1
06:11	HS24050989-08	SAMP	ZZZZZZZZZZ	U051808.D	05/18/24	1
06:33	HS24050989-08MS	MS	ZZZZZZMS	U051809.D	05/18/24	1
06:54	HS24050989-08MSD	MSD	ZZZZZZMSD	U051810.D	05/18/24	1
13:44	VSTD050	CCV_END	VSTD050	U051829.D	05/18/24	1

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RawData

<textMethods>

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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\U240516.b\U051601.D Page 1
Report Date: 16-May-2024 13:26

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240516.b\U051601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-MAY-2024 11:57
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\U240516.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	
9.190	9.180	(0.000)	95	103576			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	19136			15.00- 40.00	18.48
9.190	9.180	(0.000)	75	48824			30.00- 60.00	47.14
9.190	9.180	(0.000)	96	7187			5.00- 9.00	6.94
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	87928			50.00- 0.00	84.89
9.190	9.180	(0.000)	175	7837			5.00- 9.00	8.91
9.190	9.180	(0.000)	176	84360			95.00- 101.00	95.94
9.190	9.180	(0.000)	177	5826			5.00- 9.00	6.91

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.48
75	30.00 - 60.00% of mass 95	47.14
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.89
175	5.00 - 9.00% of mass 174	7.57 (8.91)
176	95.00 - 101.00% of mass 174	81.45 (95.94)
177	5.00 - 9.00% of mass 176	5.62 (6.91)

Data File: U051601.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3786	64.00	307	94.10	12326	134.80	174
37.10	5060	65.00	119	95.00	103576	136.90	159
38.00	5330	68.00	9971	96.00	7187	140.90	867
39.00	1803	69.00	10190	97.00	279	142.90	922
39.90	316	70.00	1024	102.90	52	144.80	101
41.10	140	70.80	78	103.90	459	145.70	154
42.10	92	72.10	549	105.00	135	146.80	81
42.90	97	73.00	4431	105.90	413	147.80	244
44.00	818	74.00	16472	106.80	118	148.90	66
45.00	979	75.00	48824	109.90	71	149.80	144
47.00	1493	76.00	4450	111.00	53	152.80	78
48.00	557	76.90	723	111.70	51	154.10	67
49.10	4226	77.90	455	113.10	68	154.80	259
50.00	19136	78.90	2264	114.90	99	156.90	212
51.10	6159	79.90	665	115.90	331	158.80	94
52.00	304	81.00	2377	116.90	566	160.70	102
55.00	328	81.90	525	117.90	318	173.90	87928
56.00	1392	82.80	61	118.90	495	175.00	7837
57.00	2566	85.50	88	123.90	83	175.90	84360
58.00	194	87.00	4706	125.80	53	176.90	5826
60.00	1146	88.00	4471	127.90	374	177.90	194
61.00	4441	90.90	473	128.80	184		
62.00	4426	92.00	2866	129.90	365		
63.00	3327	93.00	4370	130.90	130		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051602.D Page 1
Report Date: 07-Jun-2024 11:59

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Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051602.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 16-MAY-2024 12:19
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\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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

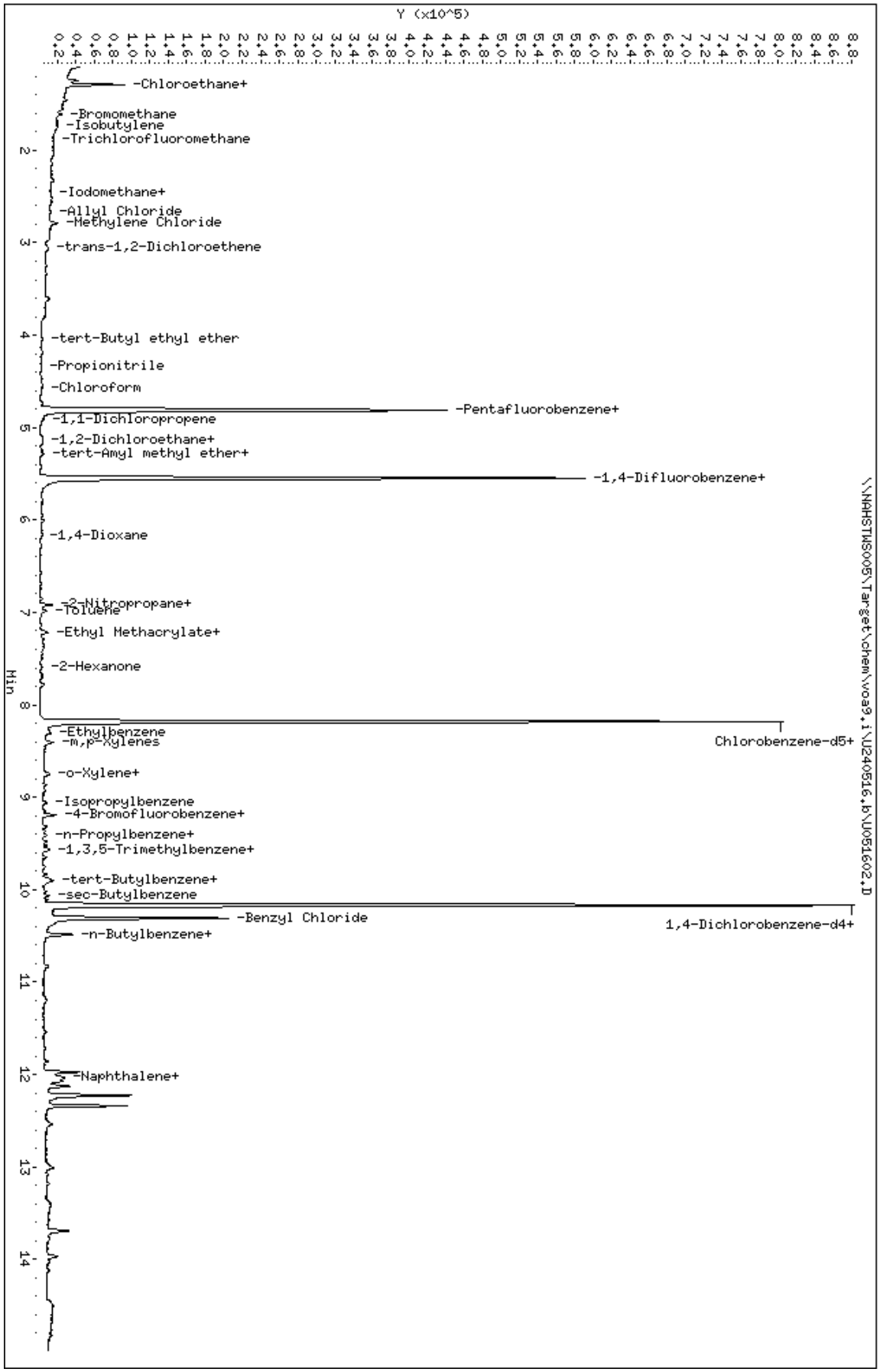
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.812	4.812	(1.000)	322476	50.0000	
	2 Dichlorodifluoromethane	85	1.157	1.157	(0.240)	257	0.25000	0.53(M)
	3 Chloromethane	50	1.292	1.292	(0.268)	45626	0.25000	0.38(aM)
	4 Propionitrile	54	4.339	4.339	(0.902)	1134	2.50000	2.84(aM)
	5 Vinyl Chloride	62	1.007	1.007	(0.209)	15061	0.25000	5.87
	6 Bromomethane	94	1.610	1.610	(0.335)	2746	0.25000	2.10
	7 Chloroethane	64	1.247	1.247	(0.259)	33080	0.25000	18.26
	8 Trichlorofluoromethane	101	1.888	1.888	(0.392)	600	0.25000	0.55(T)
	12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	1953	5.00000	4.79(TaM)
	14 Allyl Chloride	41	2.667	2.667	(0.554)	1795	0.25000	0.27(a)
	15 Iodomethane	142	2.461	2.461	(0.512)	1468	0.50000	4.00(T)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	800	0.25000	0.36(Ta)
	28 Chloroform	83	4.568	4.568	(0.949)	1060	0.25000	0.26(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1204	0.25000	0.57
	32 1,1-Dichloropropene	75	4.913	4.913	(0.885)	869	0.25000	0.29(a)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	971	0.25000	0.29(a)
	34 Carbon Tetrachloride	117	4.812	4.812	(0.867)	28062	0.25000	11.51
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	1744	50.0000	0.68(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	477336	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	2857	0.25000	0.29(a)

42 1,2-Dichloropropane	63	5.546	5.546 (0.999)	96234	0.25000	36.98
43 2-Nitropropane	43	6.851	6.851 (1.424)	1526	0.25000	0.83(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	1526	0.50000	0.49(a)
*	47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	431033	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	7957	50.0000	0.97(a)
	49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	933	0.25000	0.28(a)
	50	Toluene	91	6.978	6.978	(0.853)	3616	0.25000	0.35(a)
	52	2-Hexanone	43	7.593	7.593	(0.928)	1063	0.50000	0.49(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	1967	0.25000	0.29(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	833	0.25000	0.25(a)
	62	m,p-Xylenes	106	8.407	8.407	(1.027)	2228	0.50000	0.54(a)
	63	o-Xylene	106	8.744	8.744	(1.069)	1216	0.25000	0.29(a)
	64	Styrene	104	8.759	8.759	(1.071)	2004	0.25000	0.28(a)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	2943	0.25000	0.30(a)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	4444	50.0000	1.41(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	226531	50.0000	
	71	1,2,3-Trichloropropane	75	9.190	9.190	(0.904)	2066	0.25000	0.57(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	3364	0.25000	0.30(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	885	0.25000	0.31(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	2844	0.25000	0.34(a)
	76	2-Chlorotoluene	91	9.479	9.479	(0.932)	2306	0.25000	0.32(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.942)	2756	0.25000	0.33(a)
	78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1934	0.25000	0.29(a)
	79	1,2,4-Trimethylbenzene	105	9.902	9.902	(0.974)	9002	0.25000	0.68(a)
	81	sec-Butylbenzene	105	10.018	10.018	(0.985)	2711	0.25000	0.30(a)
	82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	2534	0.25000	0.31(a)
	83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	1982	0.25000	0.37(a)
	84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	1982	0.25000	0.37(a)
	86	Benzyl Chloride	91	10.307	10.307	(1.260)	183803	0.25000	0.04(a)
	87	n-Butylbenzene	91	10.487	10.487	(1.031)	14330	0.25000	0.23(a)
	88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	1670	0.25000	0.33(a)
	92	Naphthalene	128	12.065	12.065	(1.187)	3159	0.25000	0.38(a)
	141	Cyclohexane	56	4.808	4.808	(0.999)	5936	0.25000	0.44(a)
	135	1,4-Dioxane	88	6.169	6.169	(1.282)	467	5.00000	7.34(aM)
	149	Isopropyl alcohol	45	2.559	2.559	(0.532)	1352	5.00000	8.24(T)
	166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2145	0.25000	0.27(a)
	174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	2240	0.25000	0.29(a)
	175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	2200	0.25000	0.29(Ta)
	176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	1316	5.00000	5.66
	151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	4752	5.00000	5.62
M	94	1,2-Dichloroethylene (total)	96				800	0.50000	(a)
	134	Cyclohexanone	55	9.149	9.149	(0.900)	1141	5.00000	8.09(Ta)
	203	2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	5812	0.25000	1.55(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\voa9,i\U240516,b\U051602.D
Date : 16-MAY-2024 12:19
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

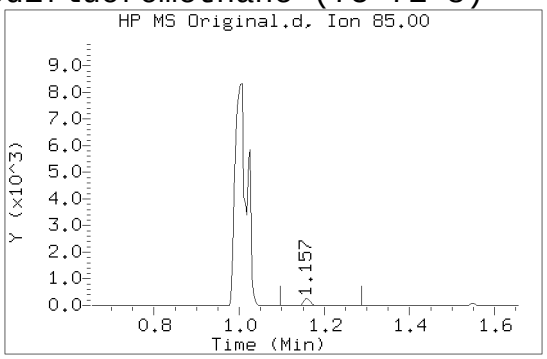
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Inj Date : 16-MAY-2024 12:19
InstruID : VOA9.i
LabSampID : VSTD00.25

Dichlorodifluoromethane (75-71-8)

Reason Code:

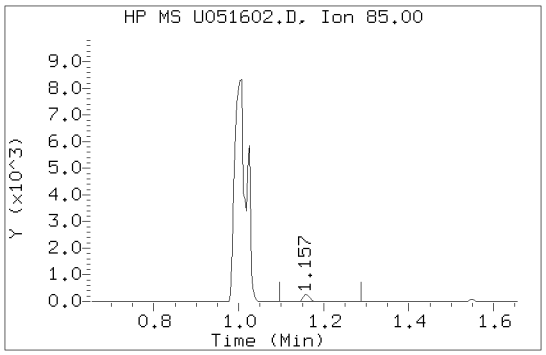
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257
HEIGHT
262
07-Jun-2024
11:59
rucha
patel



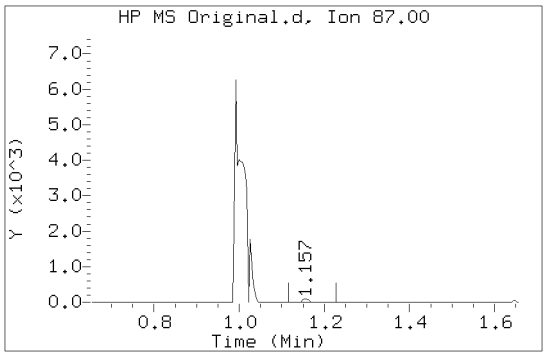
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07-Jun-2024
11:59
rucha
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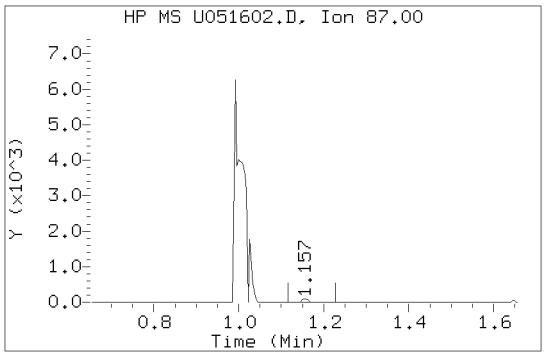
BEFORE

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86
HEIGHT
94
07-Jun-2024
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rucha
patel



AFTER

MASS
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AREA
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HEIGHT
94
07-Jun-2024
11:59
rucha
patel

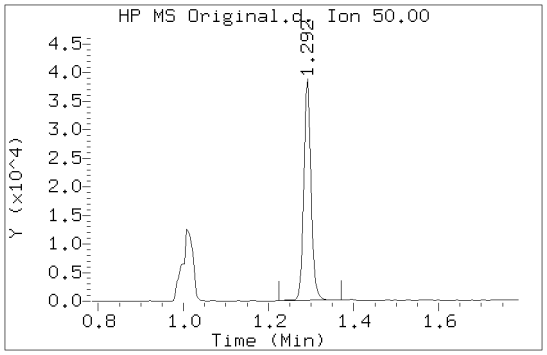


Chloromethane (74-87-3)

Reason Code:

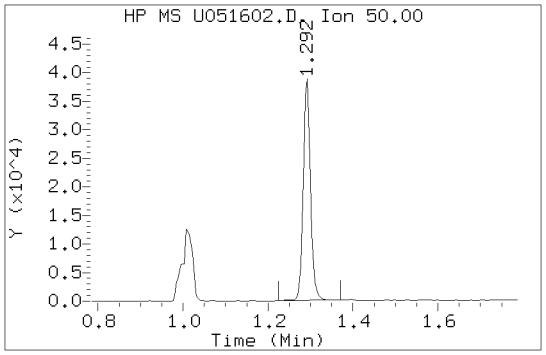
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11:59
rucha
patel



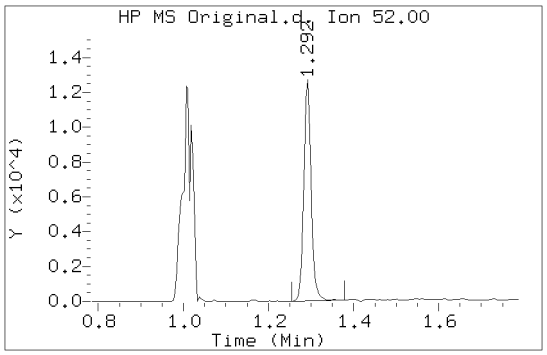
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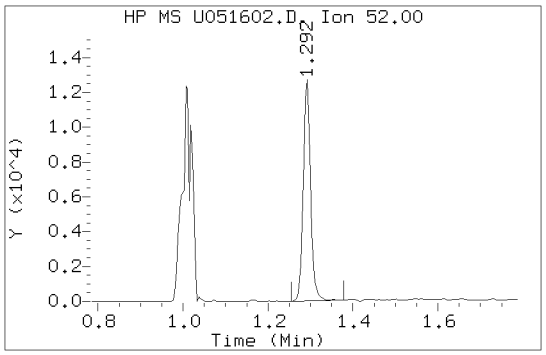
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12701
07-Jun-2024
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rucha
patel



AFTER

MASS
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HEIGHT
12701
07-Jun-2024
11:59
rucha
patel



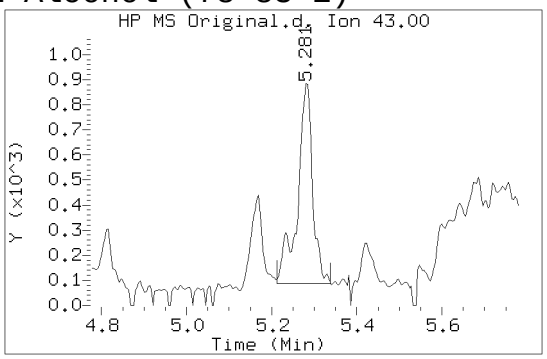
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Inj Date : 16-MAY-2024 12:19
InstruID : VOA9.i
LabSampID : VSTD00.25

Isobutyl Alcohol (78-83-1)

Reason Code:

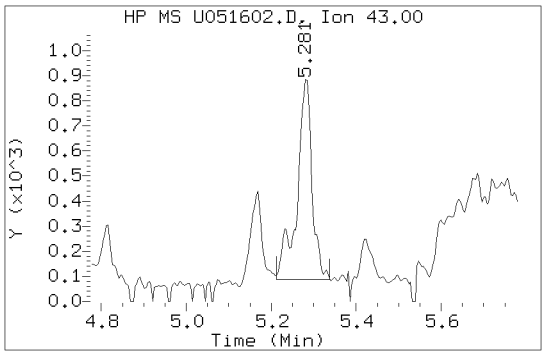
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797
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11:59
rucha
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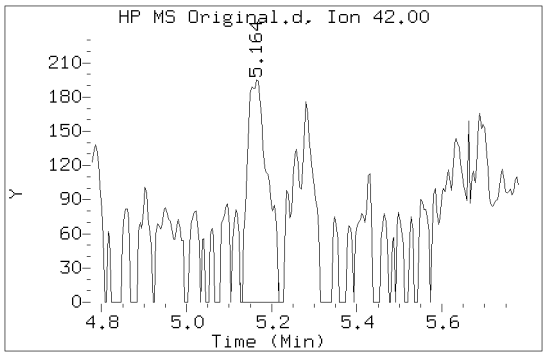
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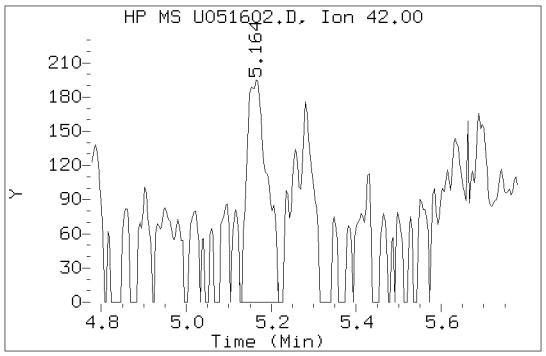
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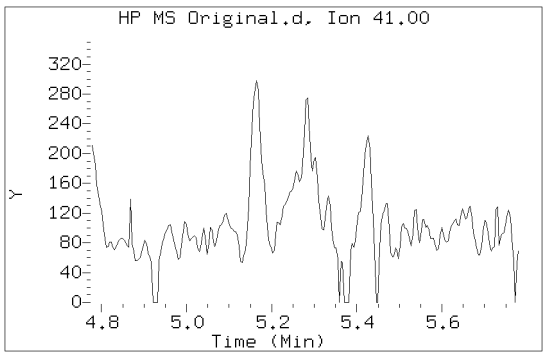
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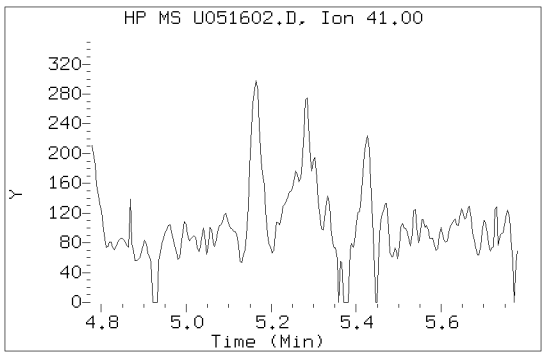
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07-Jun-2024
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rucha
patel

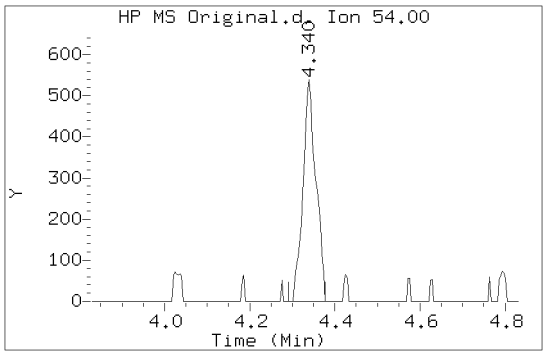


Propionitrile (107-12-0)

Reason Code:

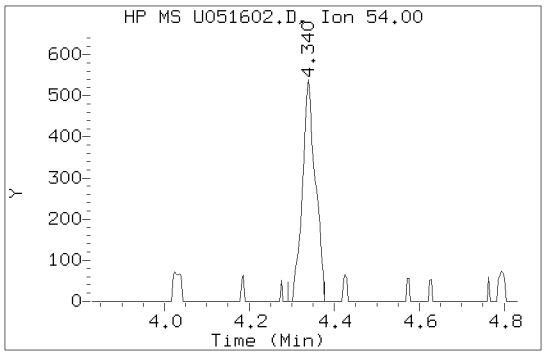
BEFORE

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AFTER

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11:59
rucha
patel



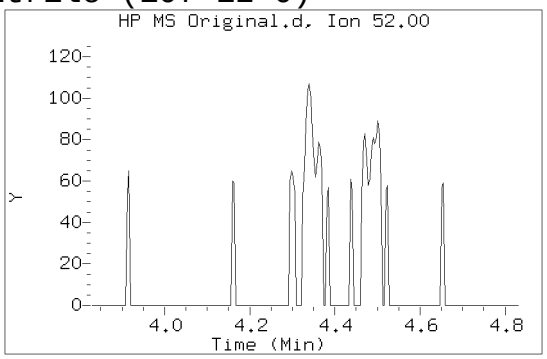
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Inj Date : 16-MAY-2024 12:19
InstruID : VOA9.i
LabSampID : VSTD00.25

Propionitrile (107-12-0)

Reason Code:

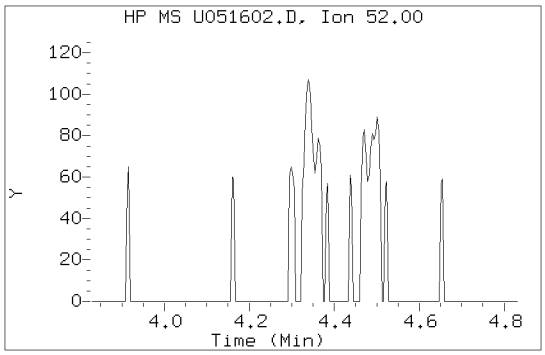
BEFORE

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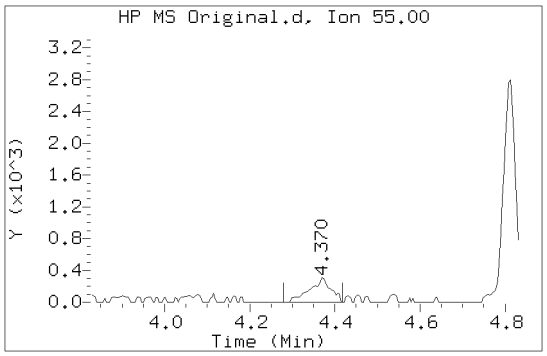
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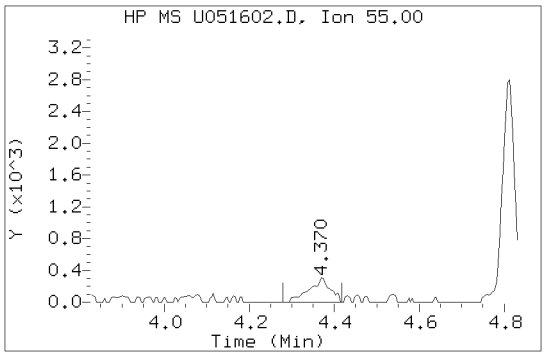
BEFORE

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AFTER

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rucha
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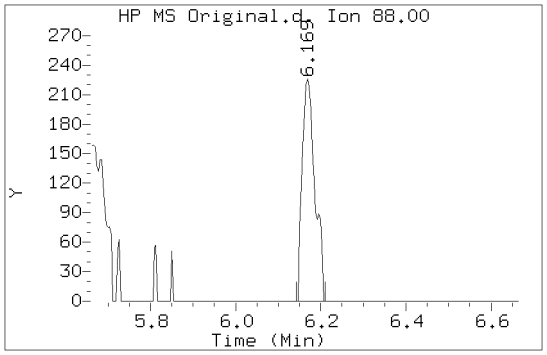


1,4-Dioxane ()

Reason Code:

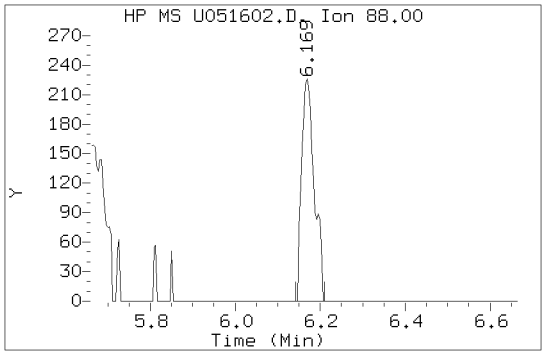
BEFORE

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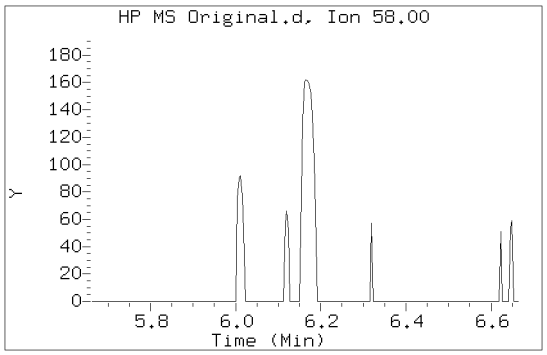
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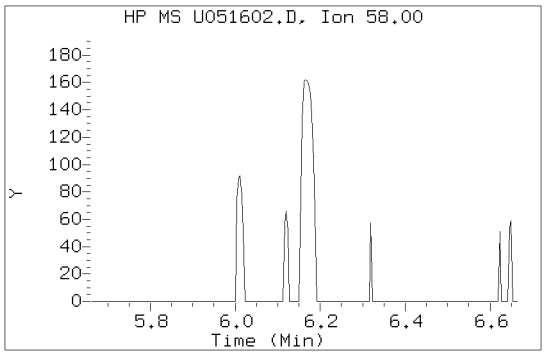
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AFTER

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11:59
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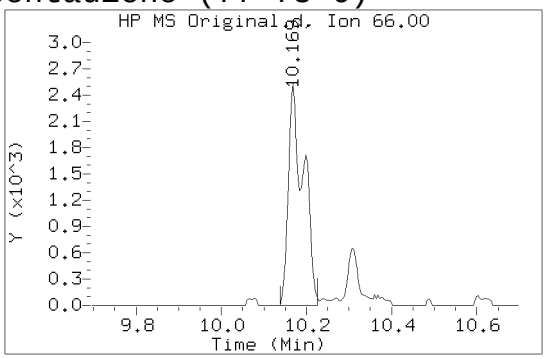
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051602.D
Inj Date : 16-MAY-2024 12:19
InstruID : VOA9.i
LabSampID : VSTD00.25

Dicyclopentadiene (77-73-6)

Reason Code:

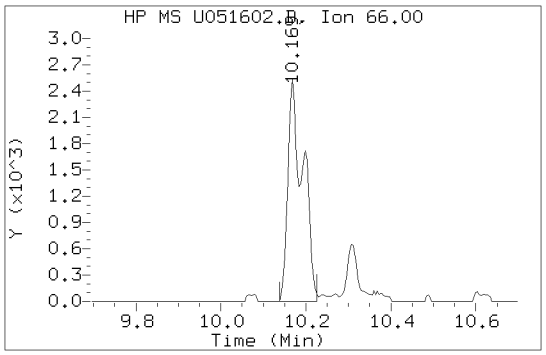
BEFORE

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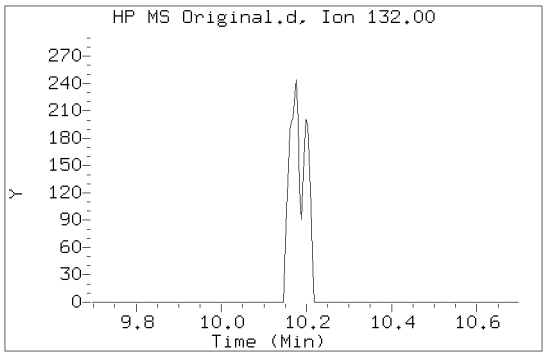
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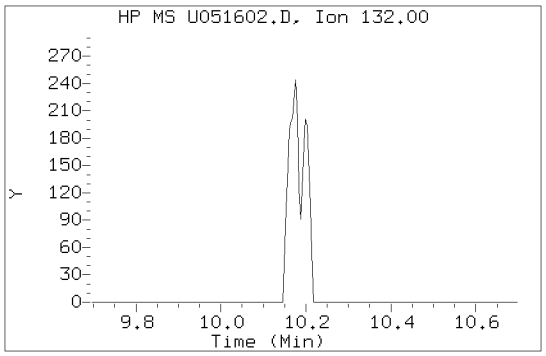
BEFORE

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AFTER

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07-Jun-2024
11:59
rucha
patel

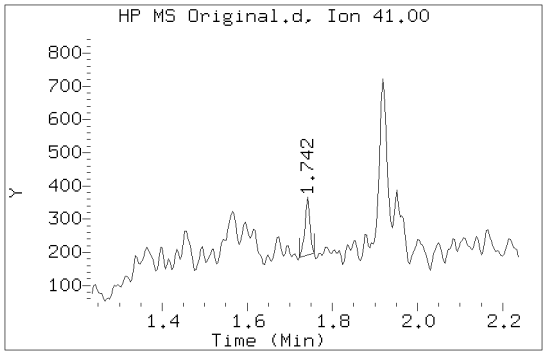


Isobutylene (115-11-7)

Reason Code:

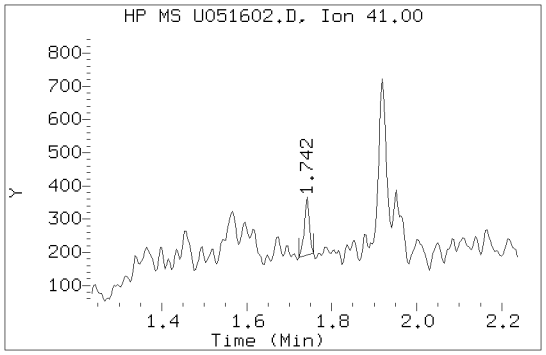
BEFORE

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173
07-Jun-2024
11:59
rucha
patel



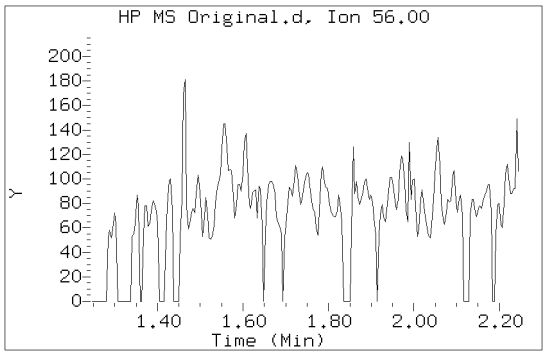
AFTER

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HEIGHT
173
07-Jun-2024
11:59
rucha
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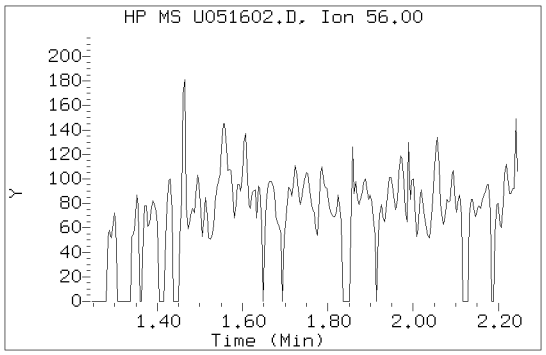
BEFORE

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07-Jun-2024
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AFTER

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07-Jun-2024
11:59
rucha
patel



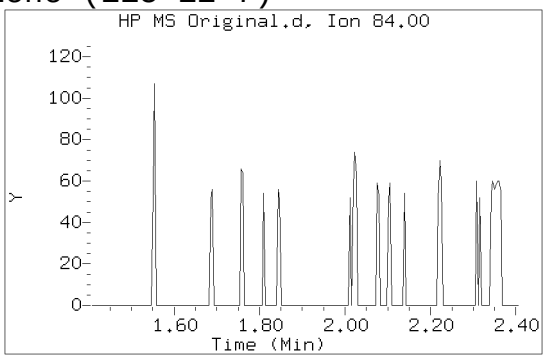
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051602.D
Inj Date : 16-MAY-2024 12:19
InstruID : VOA9.i
LabSampID : VSTD00.25

Isobutylene (115-11-7)

Reason Code:

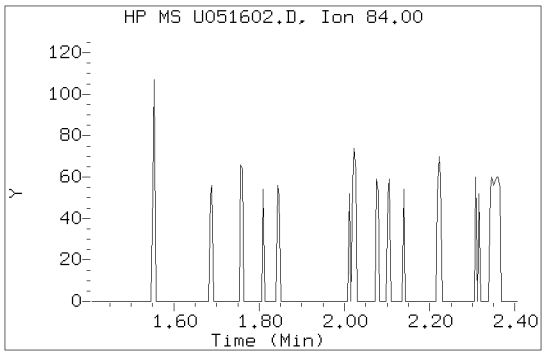
BEFORE

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07-Jun-2024
11:59
rucha
patel



AFTER

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AREA
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HEIGHT
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07-Jun-2024
11:59
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 16-MAY-2024 12:40
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:19 Cal File: U051602.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.815	(1.000)	309790	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	468	0.50000	0.66(M)
3	Chloromethane	50	1.303	1.303	(0.271)	45991	0.50000	0.79(M)
4	Propionitrile	54	4.347	4.347	(0.903)	2119	5.00000	5.53(aM)
5	Vinyl Chloride	62	1.382	1.382	(0.287)	1036	0.50000	0.42(aM)
6	Bromomethane	94	1.621	1.621	(0.337)	2570	0.50000	2.02
7	Chloroethane	64	1.704	1.704	(0.354)	739	0.50000	1.31(M)
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	818	0.50000	0.63
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	691	0.50000	0.39(a)
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	3967	10.0000	10.13(aM)
13	Acetonitrile	39	2.679	2.679	(0.556)	1542	5.00000	6.11(a)
14	Allyl Chloride	41	2.679	2.679	(0.556)	3397	0.50000	0.54(a)
15	Iodomethane	142	2.469	2.469	(0.513)	1400	1.00000	3.94(TM)
16	Acrylonitrile	53	3.068	3.068	(0.637)	1514	1.00000	0.60
17	Methylene Chloride	84	2.799	2.799	(0.581)	4190	0.50000	0.25(a)
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3759	0.50000	0.58
19	Carbon Disulfide	76	2.525	2.525	(0.524)	4823	1.00000	0.90
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	962	0.50000	0.46(a)
21	Vinyl Acetate	43	4.350	4.350	(0.903)	1402	1.00000	1.03(M)
22	1,1-Dichloroethane	63	3.515	3.515	(0.730)	1788	0.50000	0.46(Ta)

23 Chloroprene	53	2.161	2.161 (0.449)	502	0.50000	0.77(aM)
24 2-Butanone	43	4.272	4.272 (0.887)	1511	1.00000	1.08(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
25	Methacrylonitrile	41	4.500	4.500	(0.935)	1017	0.50000	0.65(aM)
26	2,2-Dichloropropane	77	4.189	4.189	(0.870)	1484	0.50000	0.50(M)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.873)	1320	0.50000	0.52
28	Chloroform	83	4.575	4.575	(0.950)	1906	0.50000	0.48(a)
29	Bromochloromethane	128	4.470	4.470	(0.928)	792	0.50000	0.64
$ 30	Dibromofluoromethane	113	4.752	4.752	(0.987)	1308	0.50000	0.64
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	1022	0.50000	0.51
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	1130	0.50000	0.40(aM)
33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	1574	0.50000	0.50
34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	889	0.50000	1.09(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1875	0.50000	0.77(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	459554	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	4740	0.50000	0.51
38	Trichloroethene	130	5.790	5.790	(1.043)	903	0.50000	0.40(aM)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	1154	0.50000	0.42(aM)
40	Methyl Methacrylate	41	5.839	5.839	(1.213)	614	0.50000	0.66(aM)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1281	1.00000	0.84(aM)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	1199	0.50000	0.47(aM)
43	2-Nitropropane	43	6.573	6.573	(1.365)	730	0.50000	0.41(aM)
44	Dibromomethane	93	6.120	6.120	(1.102)	722	0.50000	0.48(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	3101	1.00000	1.03(a)
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	1521	0.50000	0.43(a)
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	418111	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	6746	0.50000	0.85(a)
49	Ethyl Methacrylate	69	7.214	7.214	(1.299)	1710	0.50000	0.54(a)
50	Toluene	91	6.978	6.978	(0.853)	4868	0.50000	0.49(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	1187	0.50000	0.40(a)
52	2-Hexanone	43	7.593	7.593	(0.928)	2056	1.00000	0.99(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	890	0.50000	0.47(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	2106	0.50000	0.50(a)
55	Dibromochloromethane	129	7.691	7.691	(0.940)	818	0.50000	1.76(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	538	0.50000	0.94(aM)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	1004	0.50000	0.45(a)
58	1-Chlorohexane	55	8.182	8.182	(1.473)	4560	0.50000	0.30(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	3323	0.50000	0.51(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	963	0.50000	0.45(a)
61	Ethylbenzene	106	8.309	8.309	(1.016)	1312	0.50000	0.41(a)
62	m,p-Xylenes	106	8.410	8.410	(1.028)	3384	1.00000	0.85(a)
63	o-Xylene	106	8.748	8.748	(1.069)	1696	0.50000	0.43(a)
64	Styrene	104	8.763	8.763	(1.071)	2738	0.50000	0.40(a)
66	Bromoform	173	8.916	8.916	(1.090)	472	0.50000	0.90(aM)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	3800	0.50000	0.40(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1607	0.50000	0.49(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3285	0.50000	1.07(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	219739	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1449	0.50000	0.41(aM)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.147)	362	0.50000	0.45(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	4532	0.50000	0.42(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	1199	0.50000	0.44(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3851	0.50000	0.48(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	3289	0.50000	0.47(a)
77	4-Chlorotoluene	91	9.576	9.576	(0.942)	3720	0.50000	0.46(a)

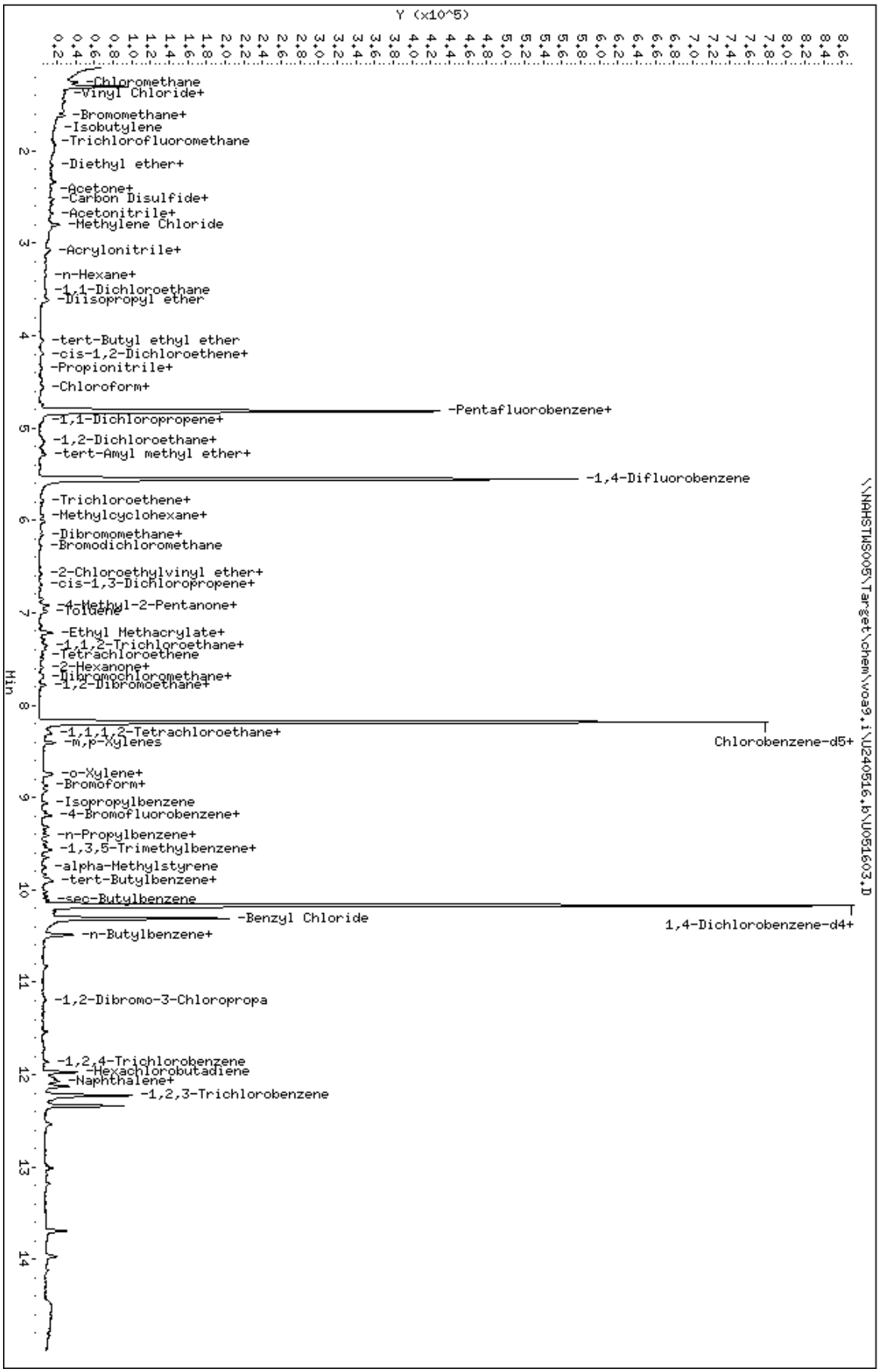
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	2400	0.50000	0.37(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880 (0.972)	9000	0.50000	0.71(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	81 sec-Butylbenzene	105	10.018	10.018	(0.985)	3182	0.50000	0.36(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	3124	0.50000	0.39(a)
	83 1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	2749	0.50000	0.53(a)
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	2749	0.50000	0.53(a)
	86 Benzyl Chloride	91	10.307	10.307	(1.260)	169595	0.50000	(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2454	0.50000	0.51(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	192	0.50000	0.39(aM)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	1684	0.50000	0.51(aM)
	91 Hexachlorobutadiene	225	11.994	11.994	(1.180)	457	0.50000	0.29(aM)
	92 Naphthalene	128	12.069	12.069	(1.187)	4122	0.50000	0.51(a)
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	1335	0.50000	0.46(aM)
	146 Methyl acetate	43	2.716	2.716	(0.564)	1133	0.50000	0.48(aM)
	138 Freon TF	101	2.337	2.337	(0.485)	936	0.50000	1.05(a)
	141 Cyclohexane	56	4.815	4.815	(1.000)	6016	0.50000	0.54(a)
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	2421	0.50000	0.44(a)
	135 1,4-Dioxane	88	6.176	6.176	(1.283)	550	10.0000	10.99(aM)
	132 n-Butanol	56	5.831	5.831	(1.211)	938	10.0000	13.24(aM)
	136 n-Hexane	57	3.342	3.342	(0.694)	1129	0.50000	0.80(Ta)
	139 Diethyl ether	59	2.154	2.154	(0.447)	1011	0.50000	0.57(a)
	148 Tert-butyl alcohol	59	2.982	2.982	(0.619)	2206	10.0000	10.88
	149 Isopropyl alcohol	45	2.577	2.577	(0.535)	1954	10.0000	12.39(TM)
	156 Diisopropyl ether	45	3.631	3.631	(0.754)	4781	0.50000	0.63(Ta)
	162 Butyl acrylate	55	8.733	8.733	(1.067)	2678	0.50000	0.52(a)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	4265	0.50000	0.56(a)
	167 Ethanol	45	2.098	2.098	(0.436)	326	10.0000	(aM)
	172 tert-Butyl formate	59	5.246	5.246	(1.090)	2484	1.00000	1.09(aM)
	173 3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	3081	10.0000	10.73(M)
	174 tert-Amyl methyl ether	73	5.288	5.288	(1.098)	4228	0.50000	0.57(a)
	175 tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	3803	0.50000	0.53(a)
	176 tert-Amyl alcohol	59	5.246	5.246	(1.090)	2149	10.0000	9.62
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	8446	10.0000	10.39
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	458	0.50000	0.54(aM)
	182 Epichlorohydrin	57	6.637	6.637	(1.195)	458	2.00000	2.26(aM)
M	94 1,2-Dichloroethylene (total)	96				2282	1.00000	(a)
	130 Ethyl Acetate	43	4.350	4.350	(0.903)	1031	0.50000	0.38(aM)
	131 Methyl Acrylate	55	4.380	4.380	(0.910)	1727	0.50000	0.55(aM)
	134 Cyclohexanone	55	9.153	9.153	(0.900)	1667	10.0000	12.19(a)
	185 Isoprene	39	2.161	2.161	(0.449)	254	0.50000	0.47(aM)
	188 Isopropyl acetate	43	5.288	5.288	(0.952)	3398	0.50000	0.44(aM)
	150 Allyl alcohol	57	3.342	3.342	(0.694)	1129	10.0000	16.01
	195 Methyl Amyl Ketone	43	8.864	8.864	(1.083)	3007	0.50000	0.50(aM)
	200 Dimethyl Disulfide	94	6.746	6.746	(0.825)	521	0.50000	2.91(aM)
	163 Butyl methacrylate	41	9.647	9.647	(0.949)	1862	0.50000	0.61(a)
	159 Propylene oxide	43	2.210	2.210	(0.459)	833	1.00000	1.14(aM)
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	3380	0.50000	0.73(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\voa9,i\U240516,b\U051603,D
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

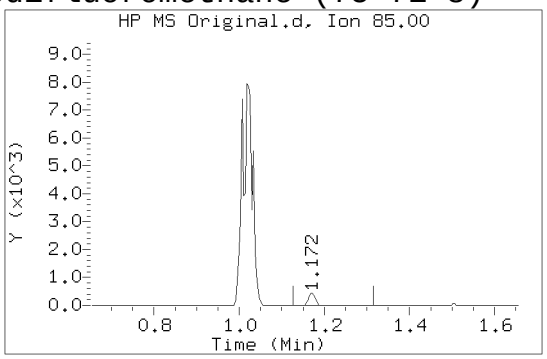
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LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

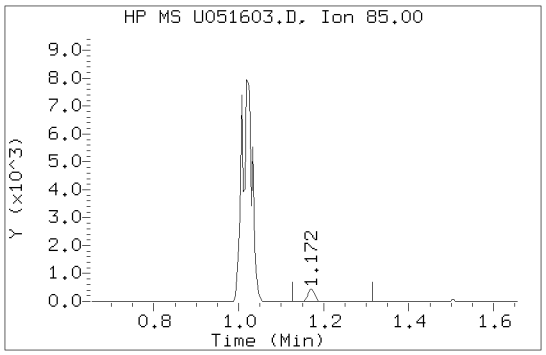
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rucha
patel



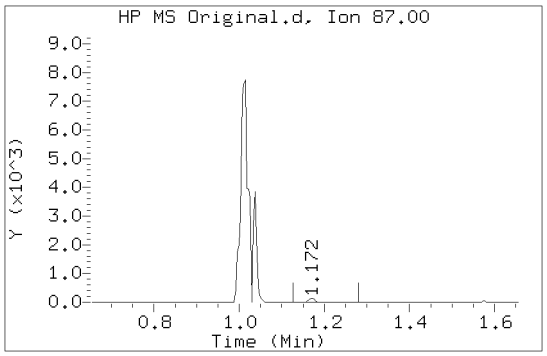
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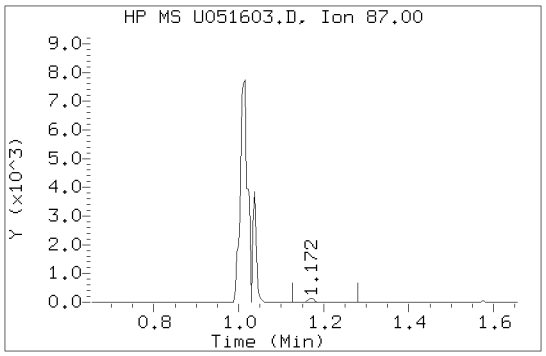
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AFTER

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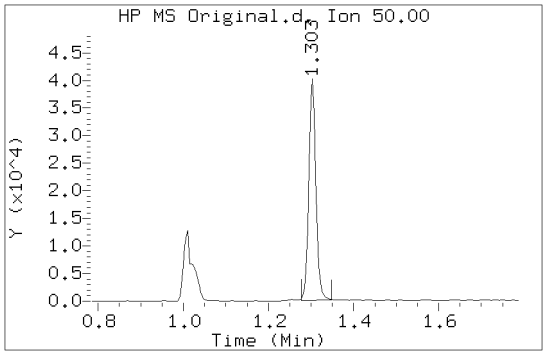


Chloromethane (74-87-3)

Reason Code:

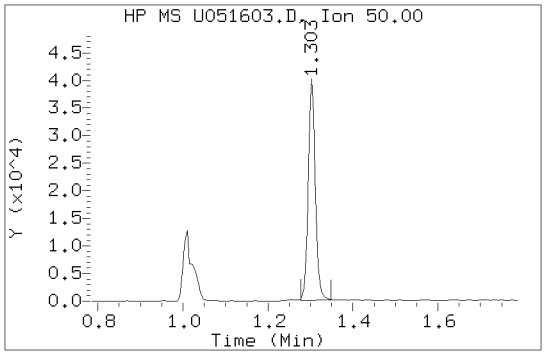
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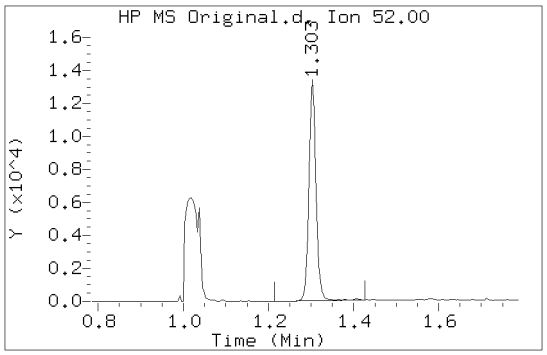
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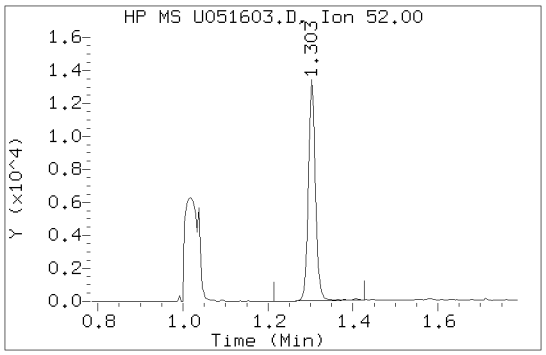
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AFTER

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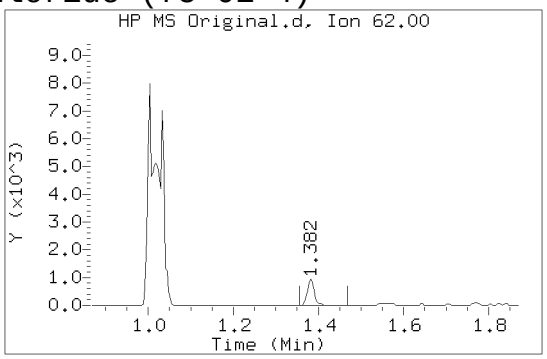
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LabSampID : VSTD00.5

Vinyl Chloride (75-01-4)

Reason Code:

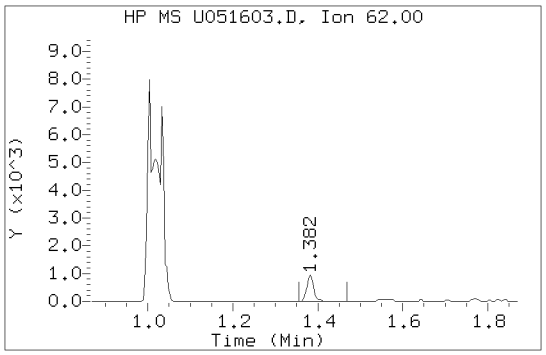
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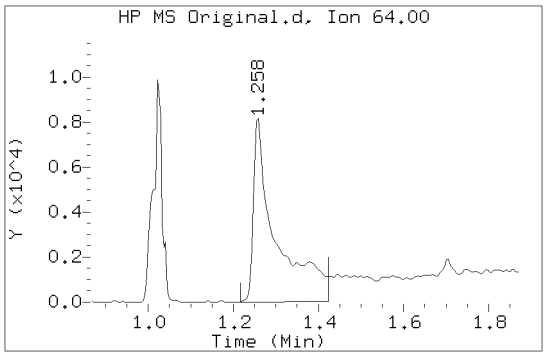
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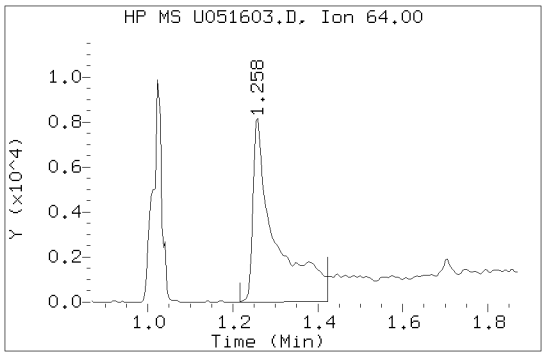
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AFTER

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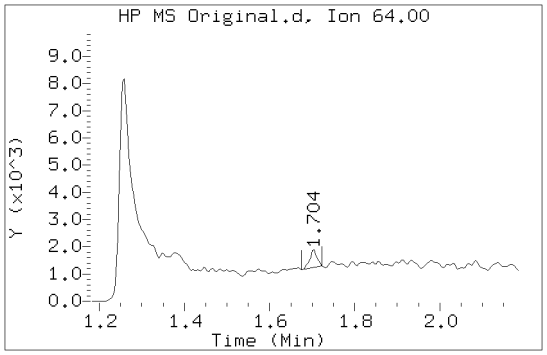


Chloroethane (75-00-3)

Reason Code:

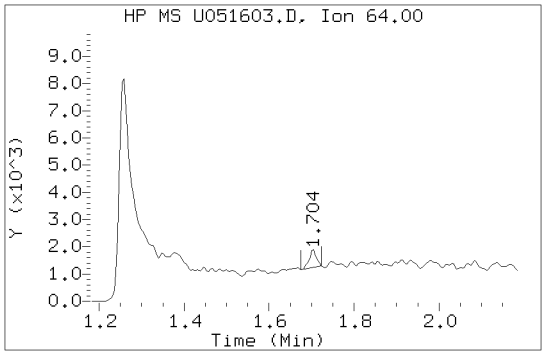
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rucha
patel



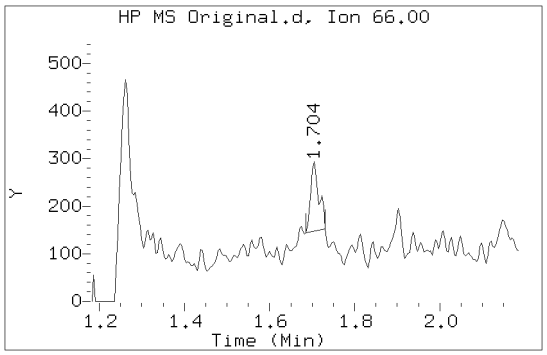
AFTER

MASS
64
AREA
739
HEIGHT
645
07-Jun-2024
11:57
rucha
patel



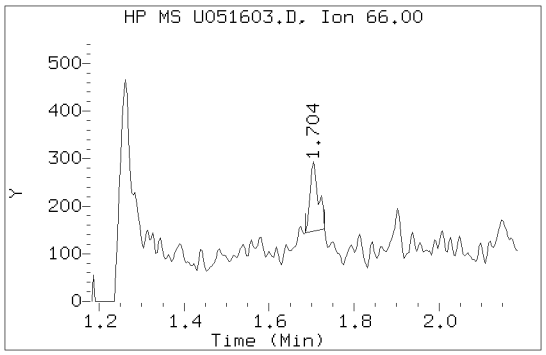
BEFORE

MASS
66
AREA
195
HEIGHT
146
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
66
AREA
195
HEIGHT
146
07-Jun-2024
11:57
rucha
patel

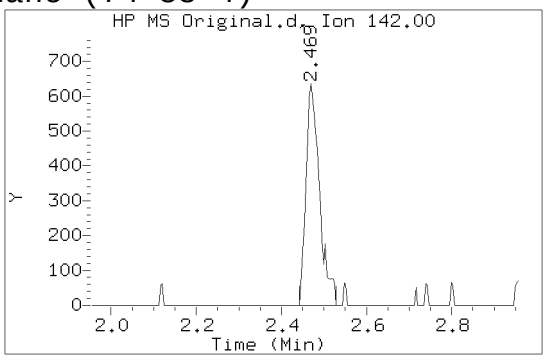


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

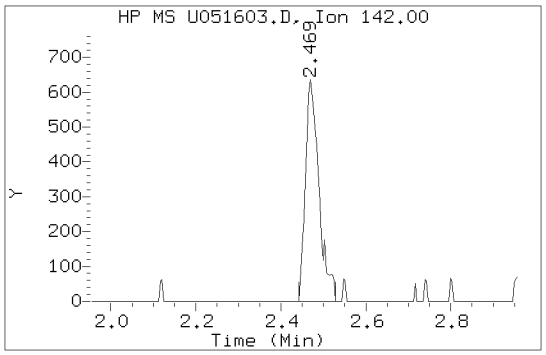
Iodomethane (74-88-4)

Reason Code:

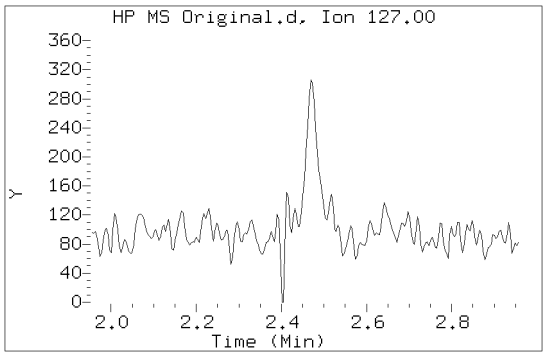
BEFORE
MASS
142
AREA
1400
HEIGHT
636
07-Jun-2024
11:57
rucha
patel



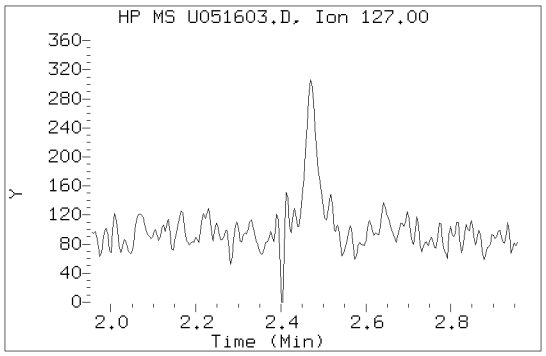
AFTER
MASS
142
AREA
1400
HEIGHT
636
07-Jun-2024
11:57
rucha
patel



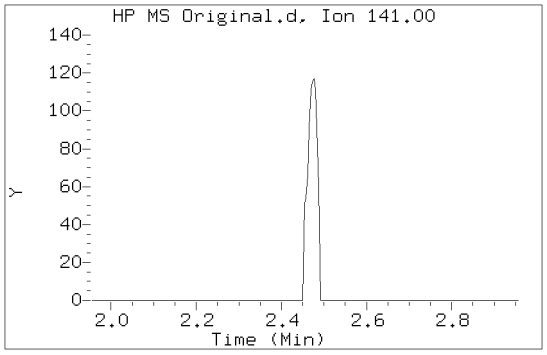
BEFORE
MASS
127
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



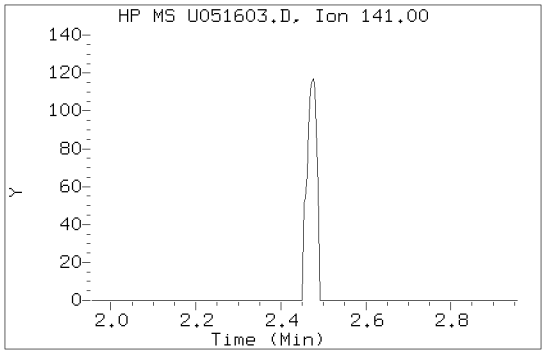
AFTER
MASS
127
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
141
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



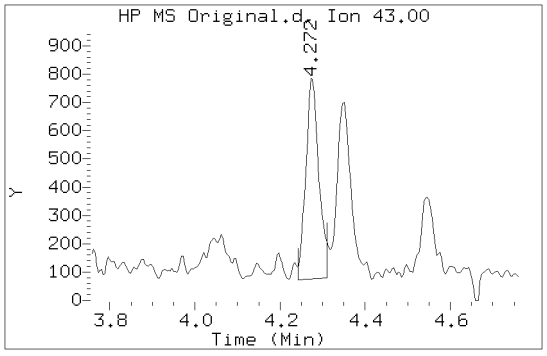
AFTER
MASS
141
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



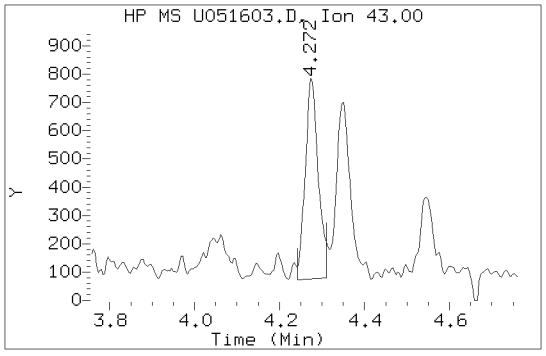
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
1511
HEIGHT
708
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
43
AREA
1511
HEIGHT
708
07-Jun-2024
11:57
rucha
patel



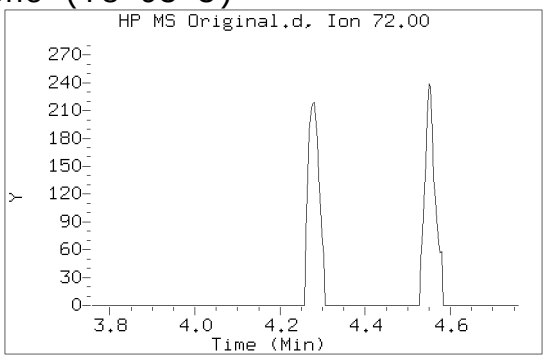
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

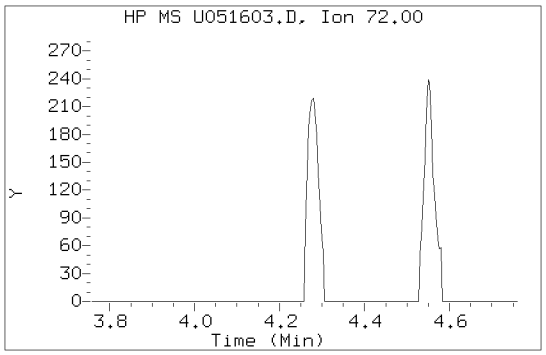
BEFORE

MASS
72
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
72
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

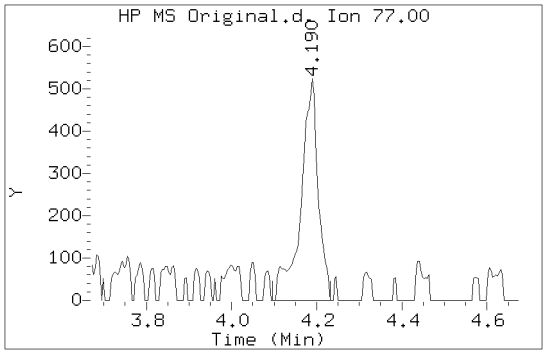


2,2-Dichloropropane (594-20-7)

Reason Code:

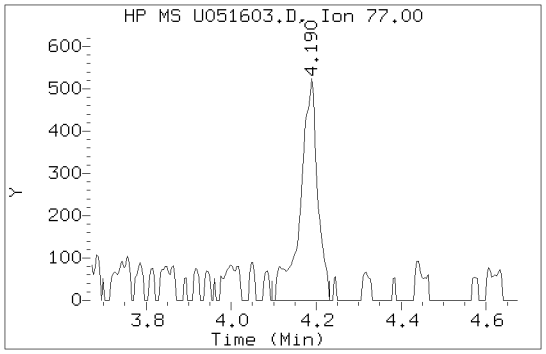
BEFORE

MASS
77
AREA
1484
HEIGHT
524
07-Jun-2024
11:57
rucha
patel



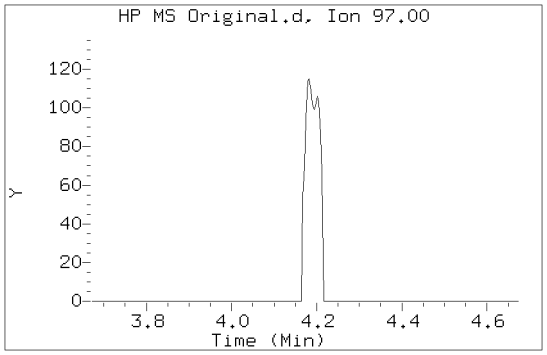
AFTER

MASS
77
AREA
1484
HEIGHT
524
07-Jun-2024
11:57
rucha
patel



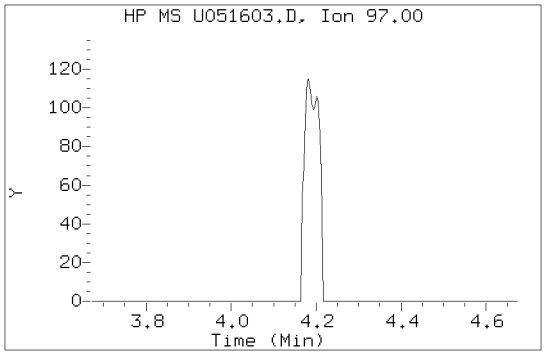
BEFORE

MASS
97
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
97
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

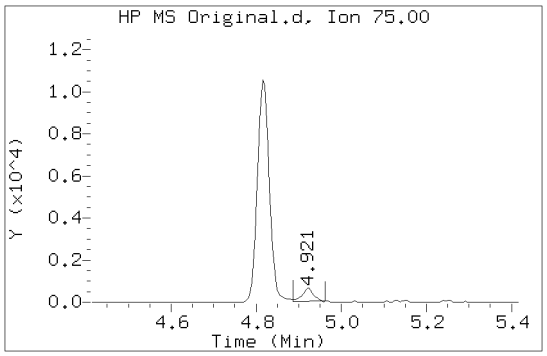


1,1-Dichloropropene (563-58-6)

Reason Code:

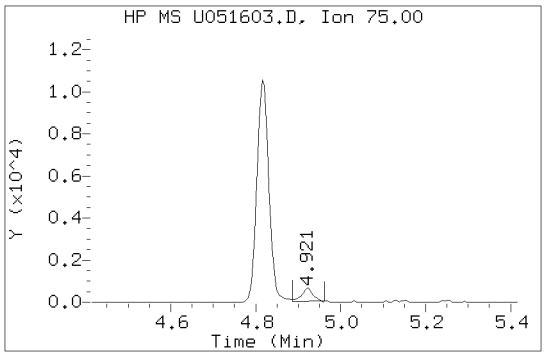
BEFORE

MASS
75
AREA
1130
HEIGHT
636
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
75
AREA
1130
HEIGHT
636
07-Jun-2024
11:57
rucha
patel



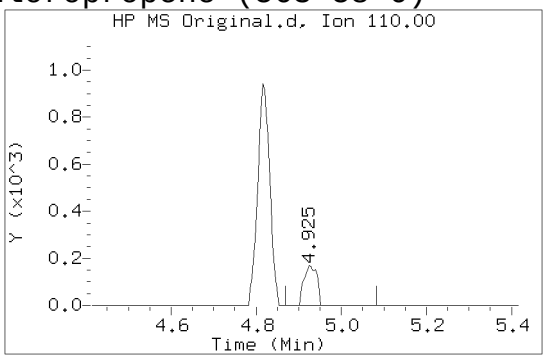
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloropropene (563-58-6)

Reason Code:

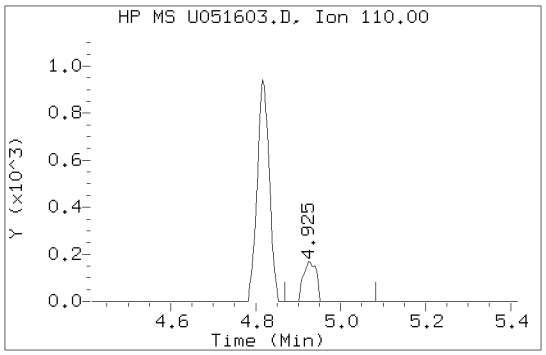
BEFORE

MASS
110
AREA
353
HEIGHT
170
07-Jun-2024
11:57
rucha
patel



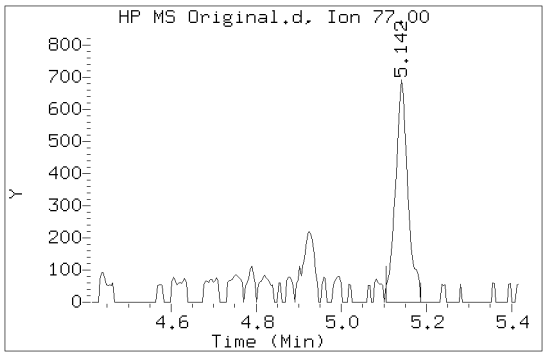
AFTER

MASS
110
AREA
353
HEIGHT
170
07-Jun-2024
11:57
rucha
patel



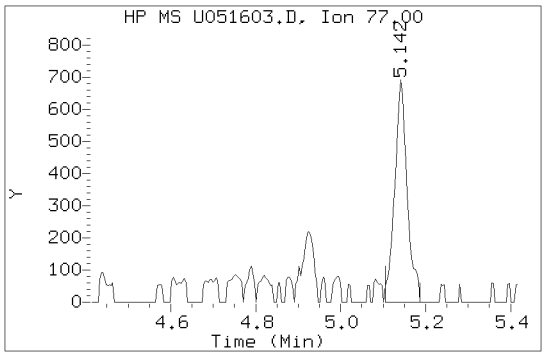
BEFORE

MASS
77
AREA
1425
HEIGHT
691
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
77
AREA
1425
HEIGHT
691
07-Jun-2024
11:57
rucha
patel

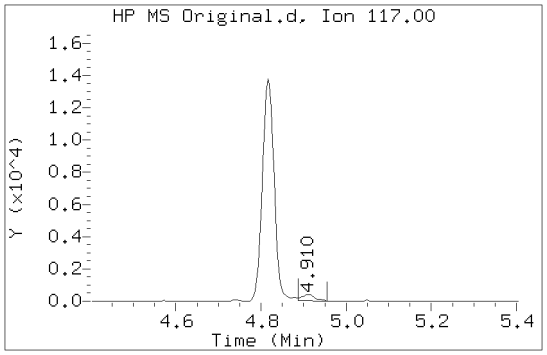


Carbon Tetrachloride (56-23-5)

Reason Code:

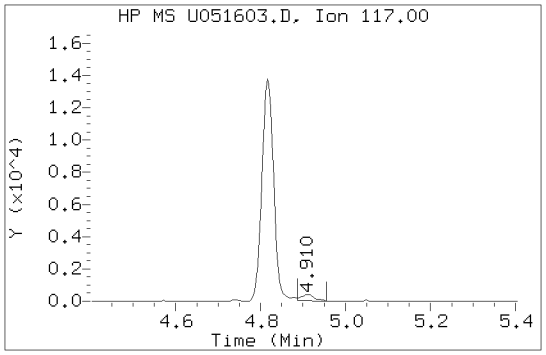
BEFORE

MASS
117
AREA
889
HEIGHT
402
07-Jun-2024
11:57
rucha
patel



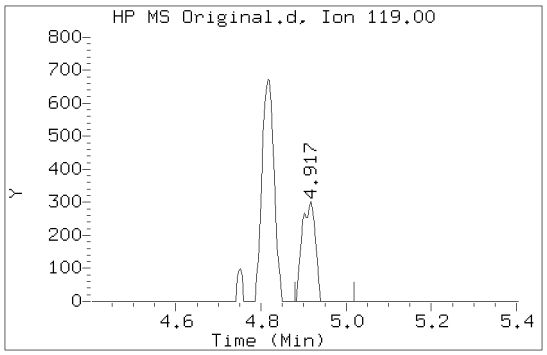
AFTER

MASS
117
AREA
889
HEIGHT
402
07-Jun-2024
11:57
rucha
patel



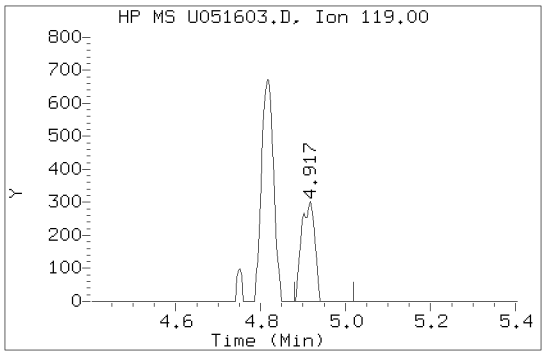
BEFORE

MASS
119
AREA
647
HEIGHT
302
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
119
AREA
647
HEIGHT
302
07-Jun-2024
11:57
rucha
patel



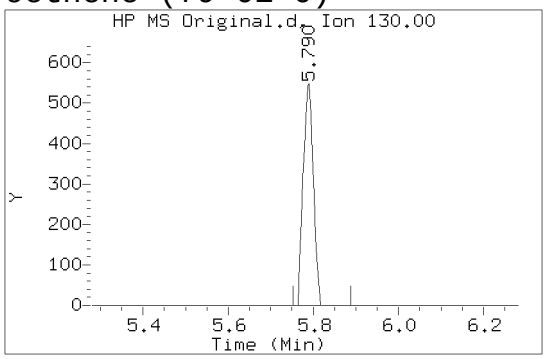
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Trichloroethene (79-01-6)

Reason Code:

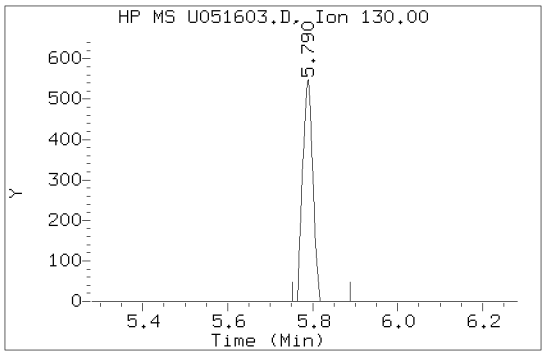
BEFORE

MASS
130
AREA
903
HEIGHT
548
07-Jun-2024
11:57
rucha
patel



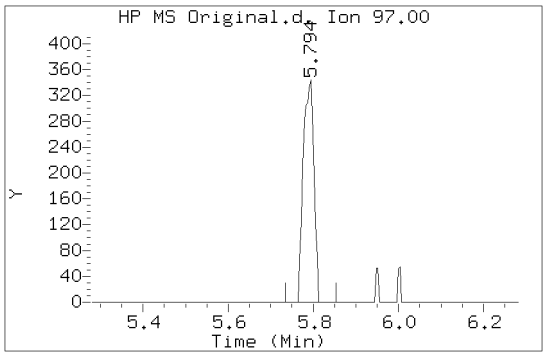
AFTER

MASS
130
AREA
903
HEIGHT
548
07-Jun-2024
11:57
rucha
patel



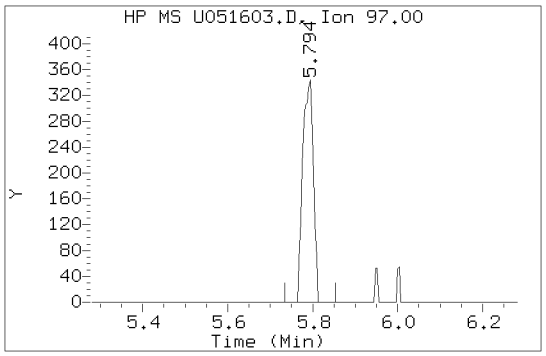
BEFORE

MASS
97
AREA
595
HEIGHT
344
07-Jun-2024
11:57
rucha
patel



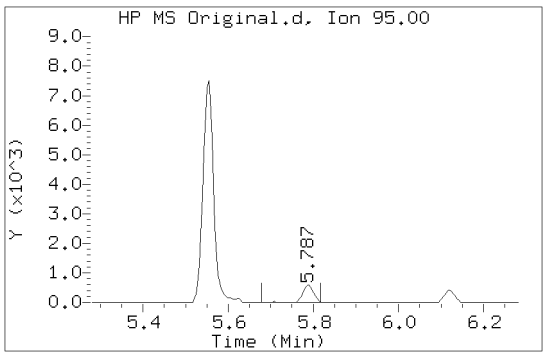
AFTER

MASS
97
AREA
595
HEIGHT
344
07-Jun-2024
11:57
rucha
patel



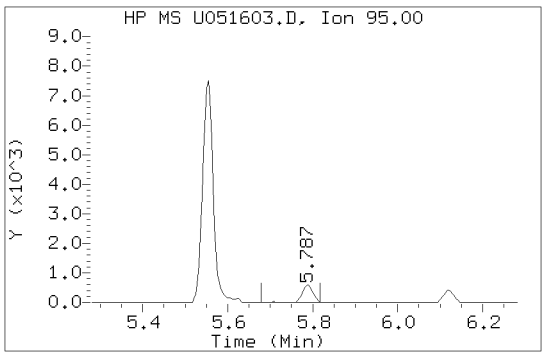
BEFORE

MASS
95
AREA
1001
HEIGHT
580
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
95
AREA
1001
HEIGHT
580
07-Jun-2024
11:57
rucha
patel

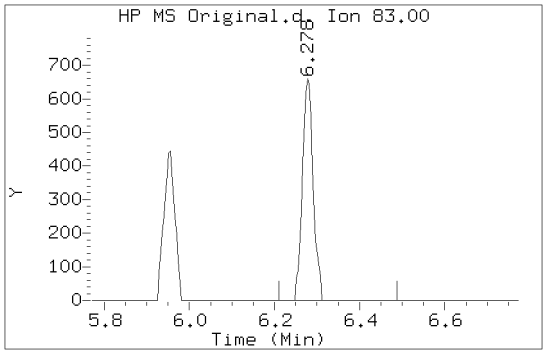


Bromodichloromethane (75-27-4)

Reason Code:

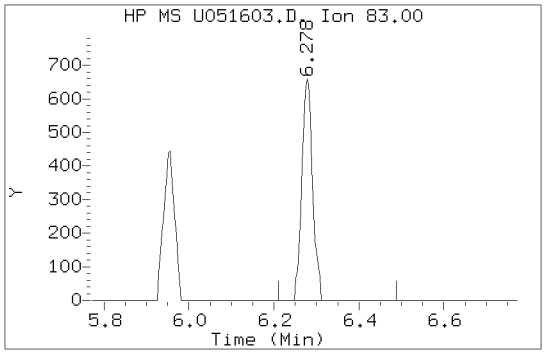
BEFORE

MASS
83
AREA
1154
HEIGHT
660
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
83
AREA
1154
HEIGHT
660
07-Jun-2024
11:57
rucha
patel



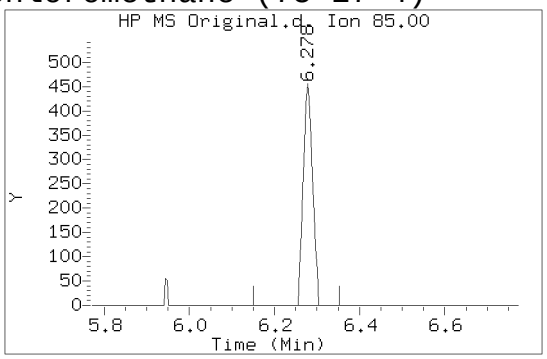
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

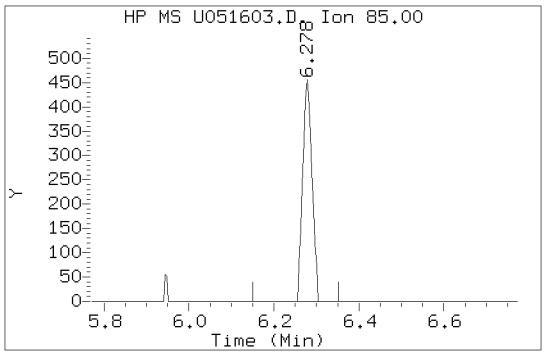
BEFORE

MASS
85
AREA
692
HEIGHT
456
07-Jun-2024
11:57
rucha
patel



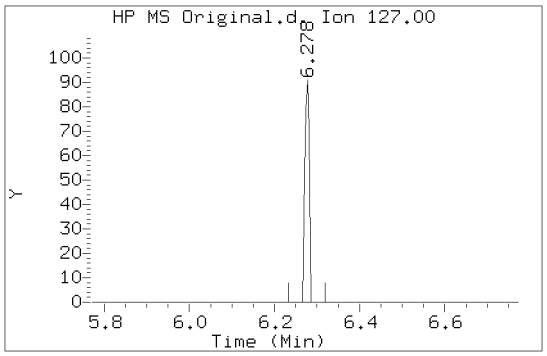
AFTER

MASS
85
AREA
692
HEIGHT
456
07-Jun-2024
11:57
rucha
patel



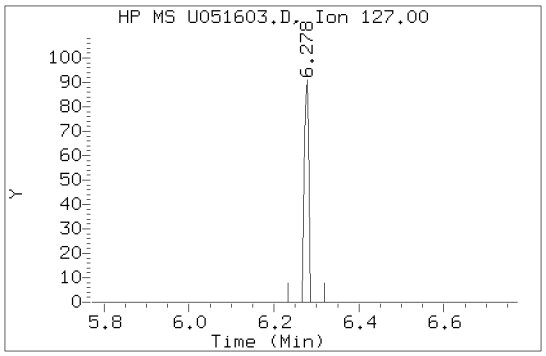
BEFORE

MASS
127
AREA
65
HEIGHT
91
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
127
AREA
65
HEIGHT
91
07-Jun-2024
11:57
rucha
patel

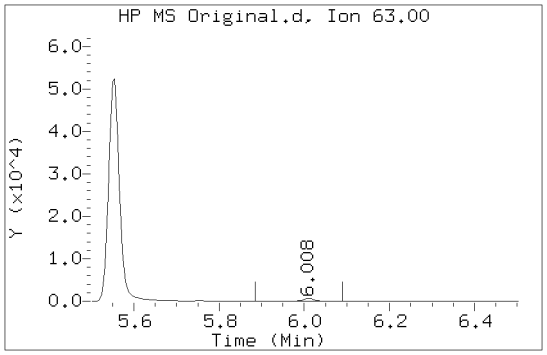


1,2-Dichloropropane (78-87-5)

Reason Code:

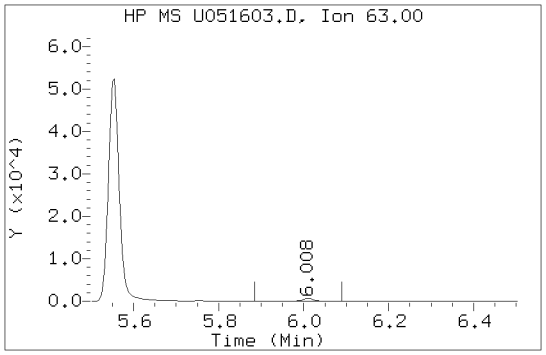
BEFORE

MASS
63
AREA
1199
HEIGHT
680
07-Jun-2024
11:57
rucha
patel



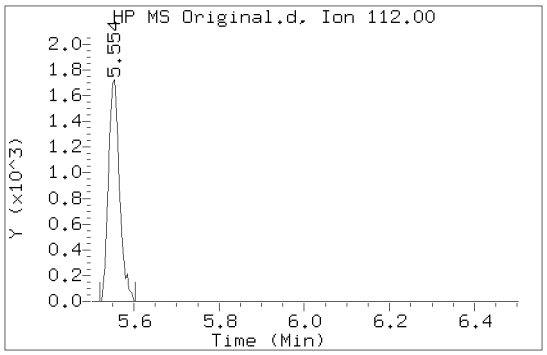
AFTER

MASS
63
AREA
1199
HEIGHT
680
07-Jun-2024
11:57
rucha
patel



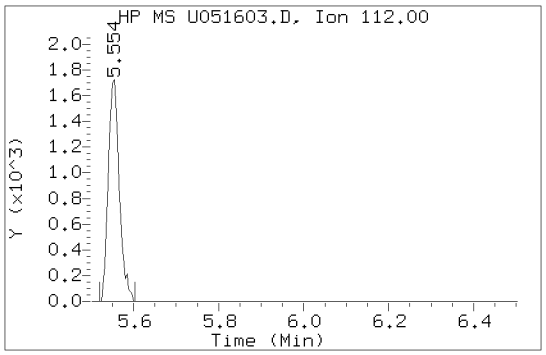
BEFORE

MASS
112
AREA
3102
HEIGHT
1724
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
112
AREA
3102
HEIGHT
1724
07-Jun-2024
11:57
rucha
patel



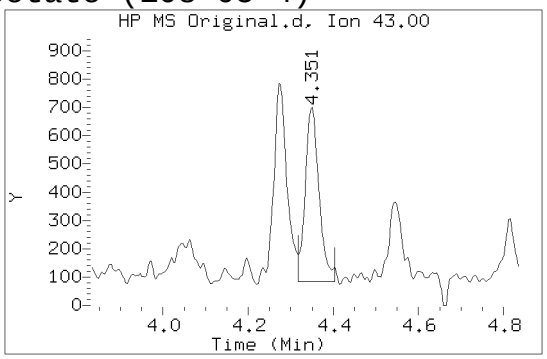
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

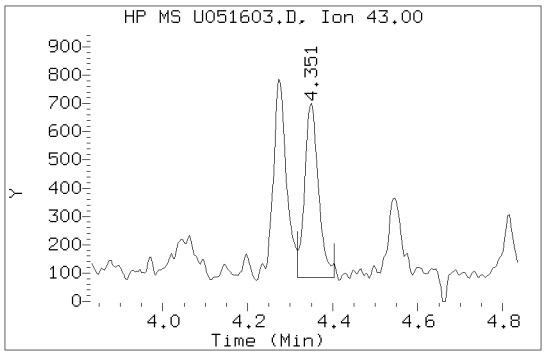
BEFORE

MASS
43
AREA
1402
HEIGHT
616
07-Jun-2024
11:57
rucha
patel



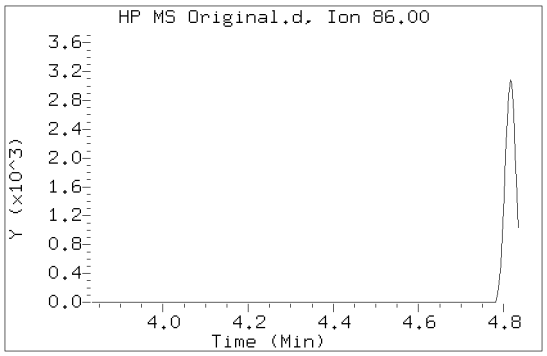
AFTER

MASS
43
AREA
1402
HEIGHT
616
07-Jun-2024
11:57
rucha
patel



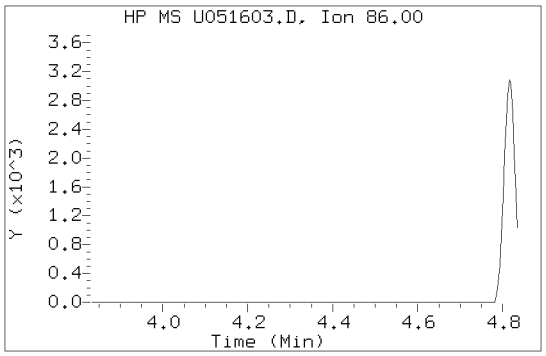
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

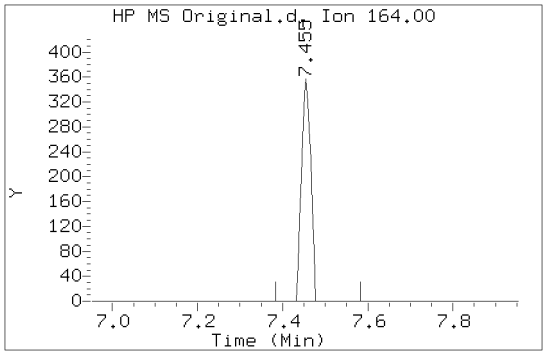


Tetrachloroethene (127-18-4)

Reason Code:

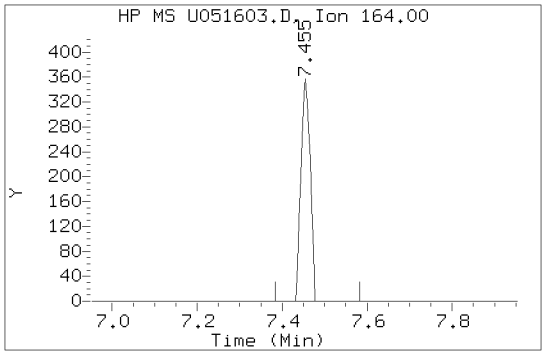
BEFORE

MASS
164
AREA
538
HEIGHT
357
07-Jun-2024
11:57
rucha
patel



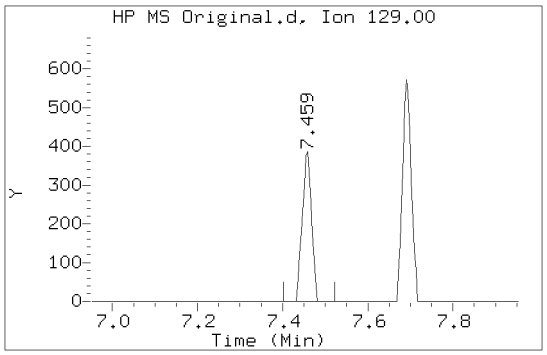
AFTER

MASS
164
AREA
538
HEIGHT
357
07-Jun-2024
11:57
rucha
patel



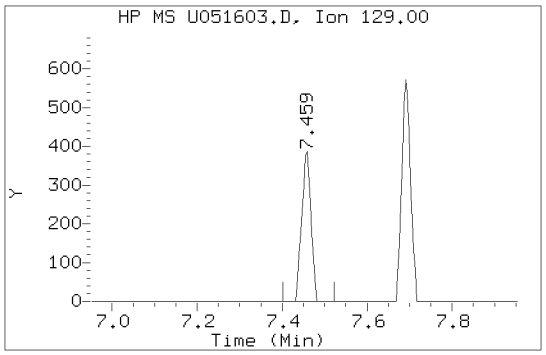
BEFORE

MASS
129
AREA
581
HEIGHT
387
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
129
AREA
581
HEIGHT
387
07-Jun-2024
11:57
rucha
patel



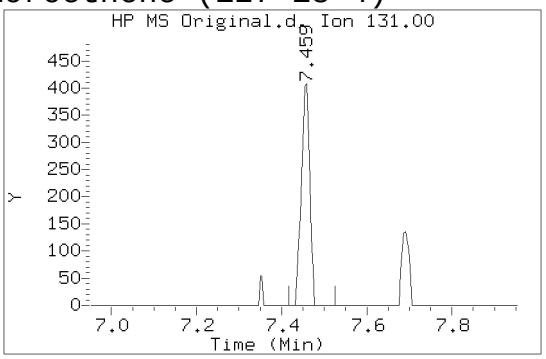
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrachloroethene (127-18-4)

Reason Code:

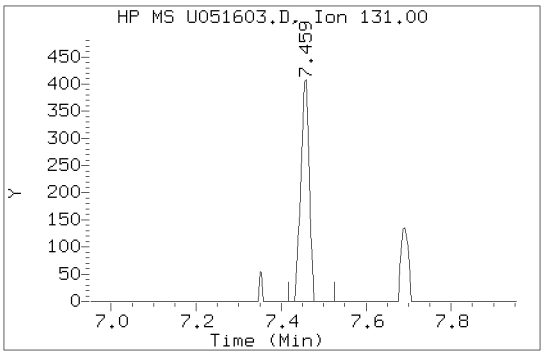
BEFORE

MASS
131
AREA
558
HEIGHT
408
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
131
AREA
558
HEIGHT
408
07-Jun-2024
11:57
rucha
patel

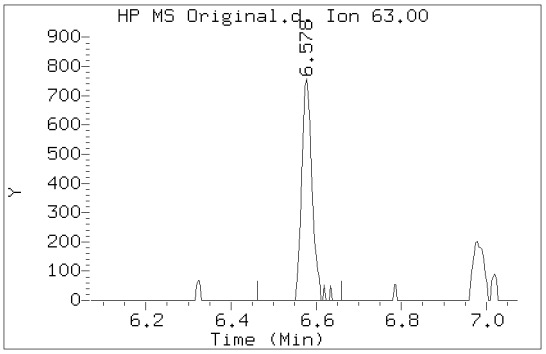


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

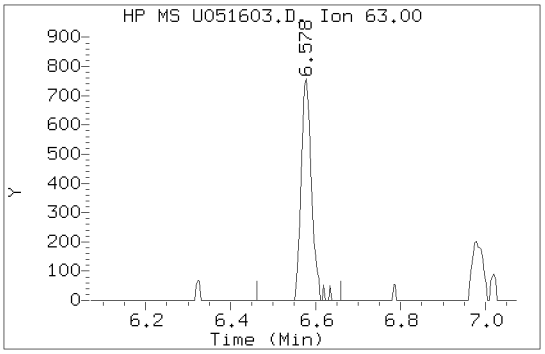
BEFORE

MASS
63
AREA
1281
HEIGHT
758
07-Jun-2024
11:57
rucha
patel



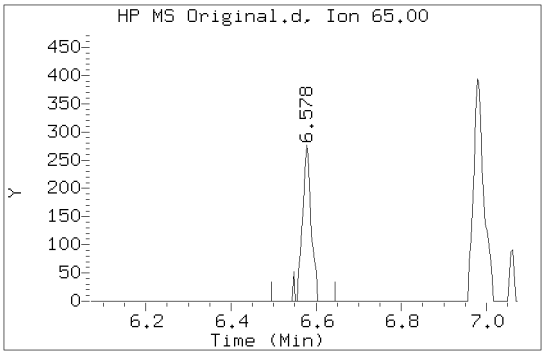
AFTER

MASS
63
AREA
1281
HEIGHT
758
07-Jun-2024
11:57
rucha
patel



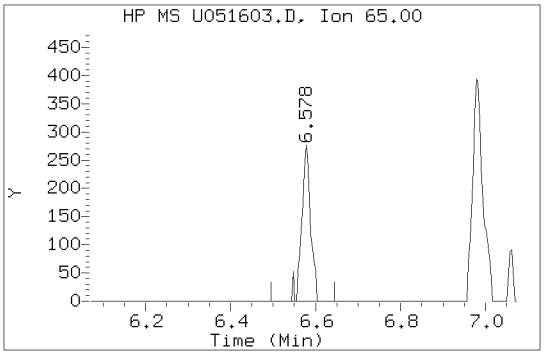
BEFORE

MASS
65
AREA
398
HEIGHT
277
07-Jun-2024
11:57
rucha
patel



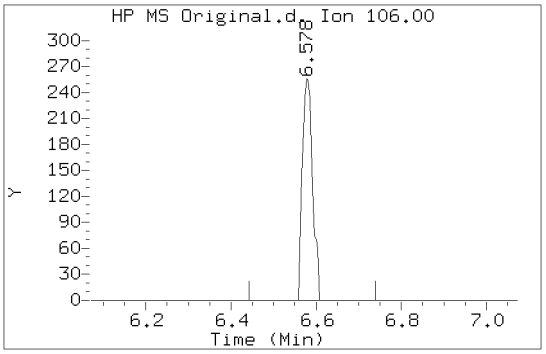
AFTER

MASS
65
AREA
398
HEIGHT
277
07-Jun-2024
11:57
rucha
patel



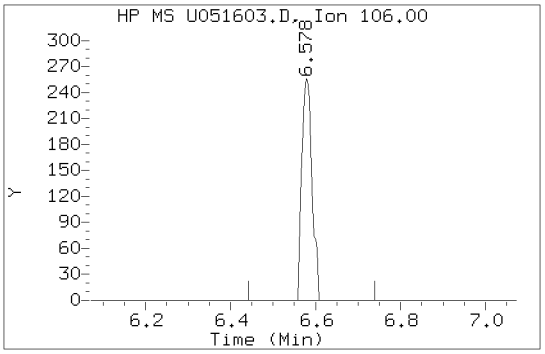
BEFORE

MASS
106
AREA
426
HEIGHT
256
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
106
AREA
426
HEIGHT
256
07-Jun-2024
11:57
rucha
patel

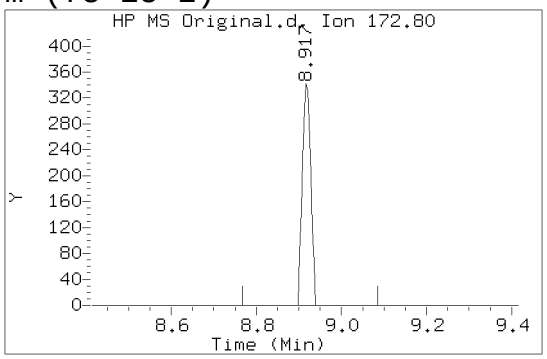


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

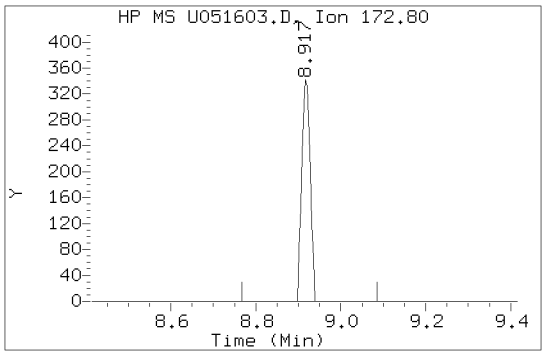
Bromoform (75-25-2)

Reason Code:

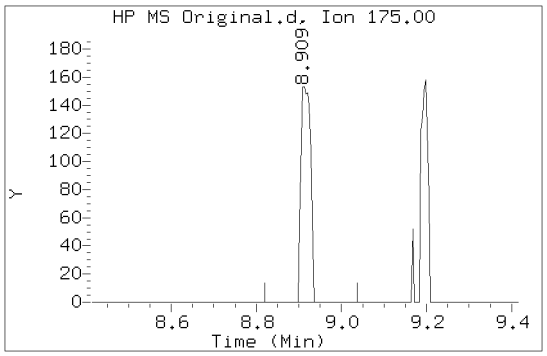
BEFORE
MASS
172.8
AREA
472
HEIGHT
342
07-Jun-2024
11:57
rucha
patel



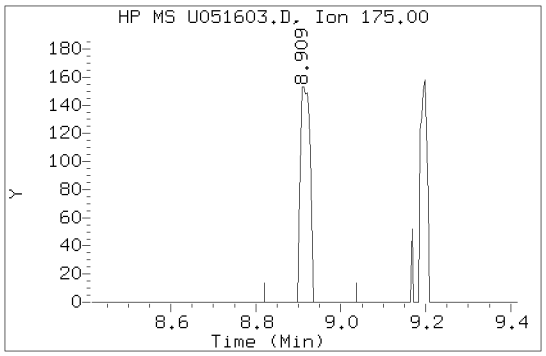
AFTER
MASS
172.8
AREA
472
HEIGHT
342
07-Jun-2024
11:57
rucha
patel



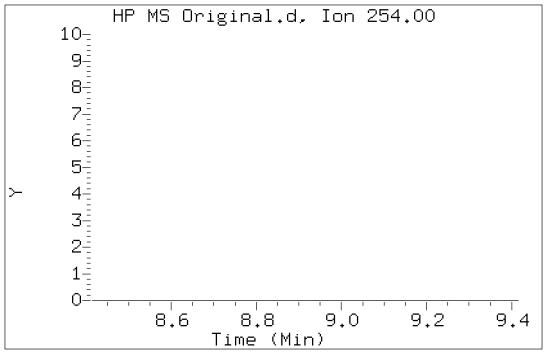
BEFORE
MASS
175
AREA
243
HEIGHT
153
07-Jun-2024
11:57
rucha
patel



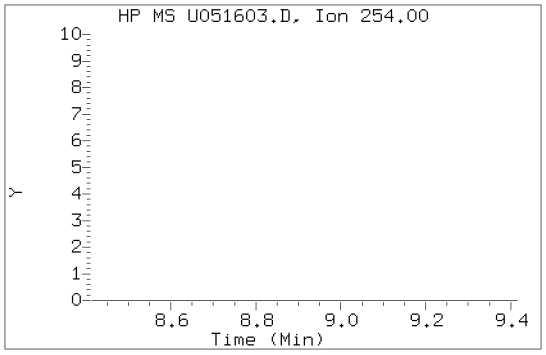
AFTER
MASS
175
AREA
243
HEIGHT
153
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
254
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



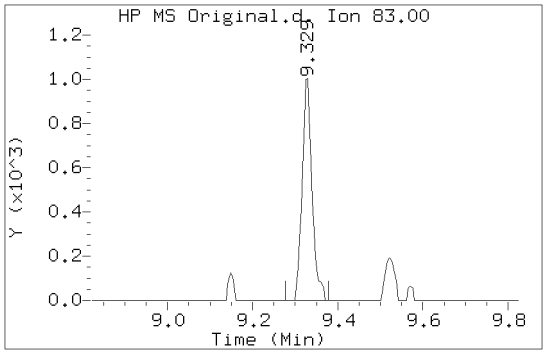
AFTER
MASS
254
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



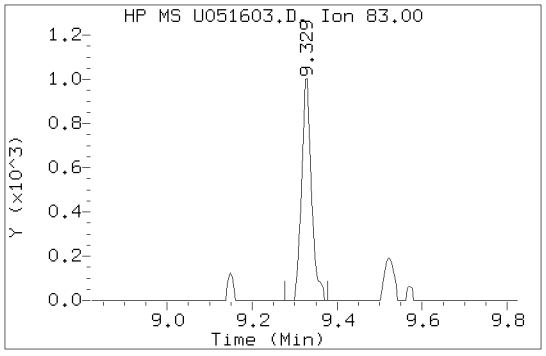
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE
MASS
83
AREA
1607
HEIGHT
1003
07-Jun-2024
11:57
rucha
patel



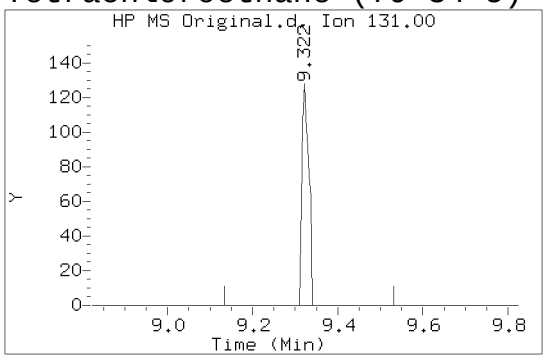
AFTER
MASS
83
AREA
1607
HEIGHT
1003
07-Jun-2024
11:57
rucha
patel



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

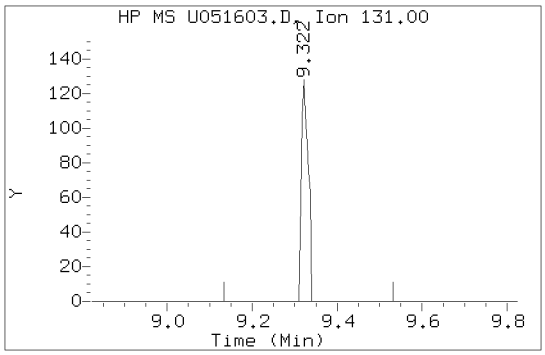
1,1,2,2-Tetrachloroethane (79-34-5)

BEFORE
MASS
131
AREA
141
HEIGHT
128
07-Jun-2024
11:57
rucha
patel

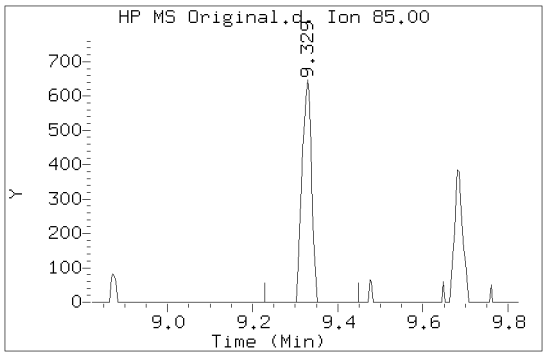


Reason Code:

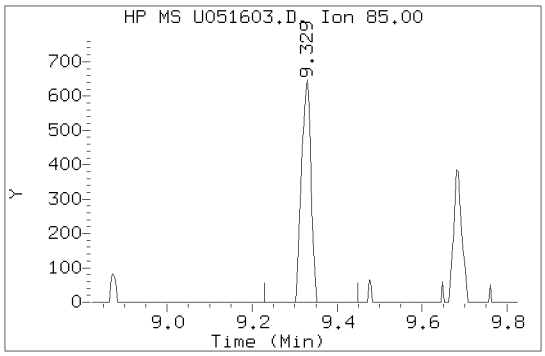
AFTER
MASS
131
AREA
141
HEIGHT
128
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
85
AREA
996
HEIGHT
647
07-Jun-2024
11:57
rucha
patel

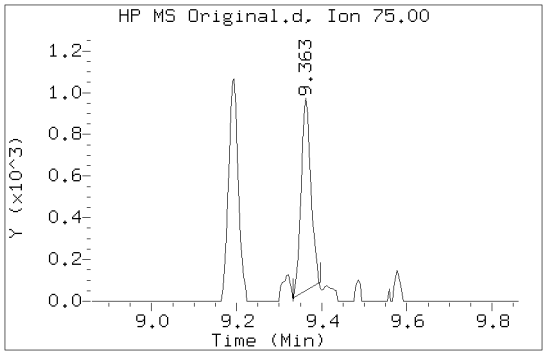


AFTER
MASS
85
AREA
996
HEIGHT
647
07-Jun-2024
11:57
rucha
patel



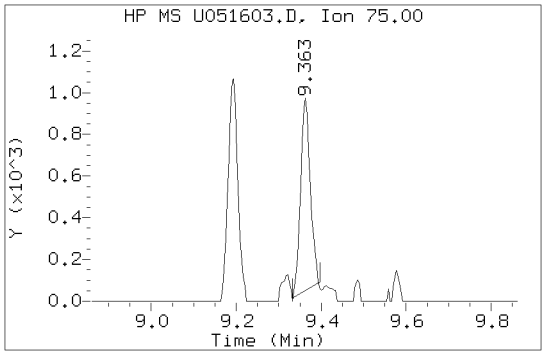
1,2,3-Trichloropropane (96-18-4)

BEFORE
MASS
75
AREA
1449
HEIGHT
921
07-Jun-2024
11:57
rucha
patel

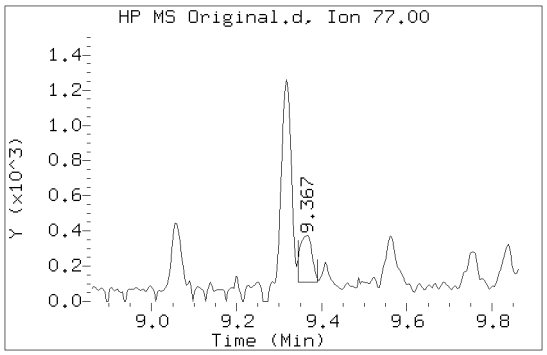


Reason Code:

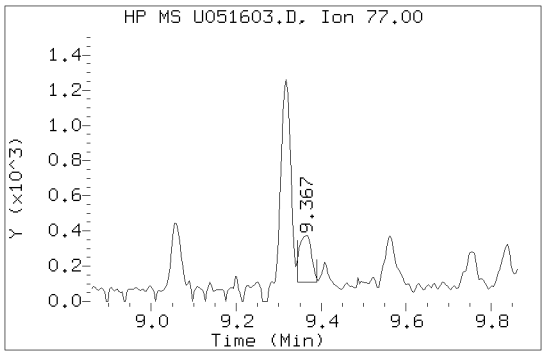
AFTER
MASS
75
AREA
1449
HEIGHT
921
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
77
AREA
527
HEIGHT
266
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
77
AREA
527
HEIGHT
266
07-Jun-2024
11:57
rucha
patel



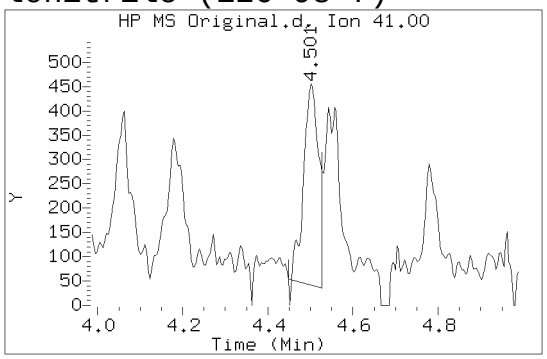
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

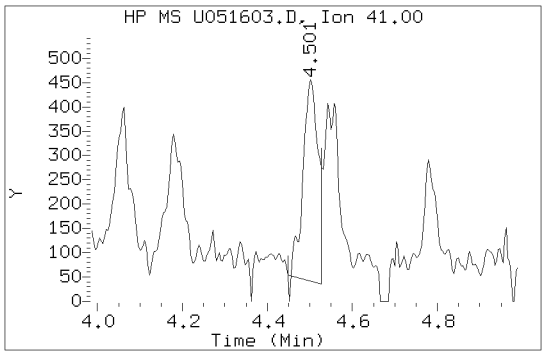
BEFORE

MASS
41
AREA
1017
HEIGHT
414
07-Jun-2024
11:57
rucha
patel



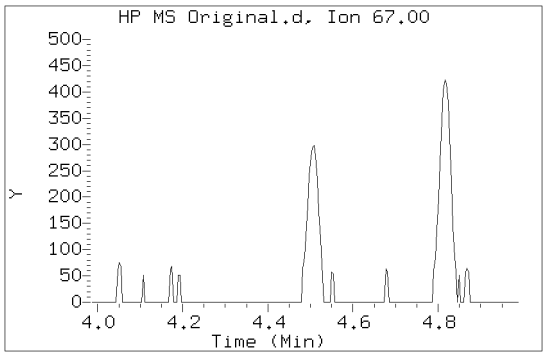
AFTER

MASS
41
AREA
1017
HEIGHT
414
07-Jun-2024
11:57
rucha
patel



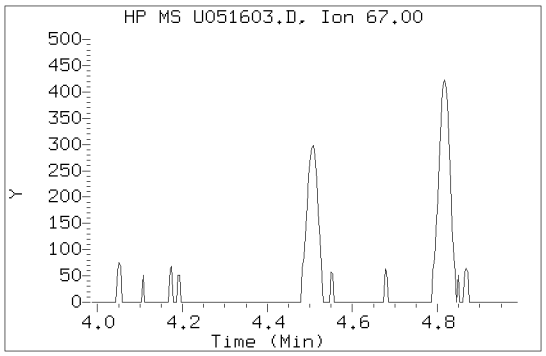
BEFORE

MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



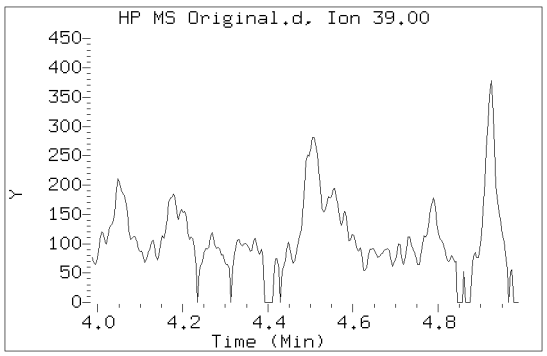
AFTER

MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



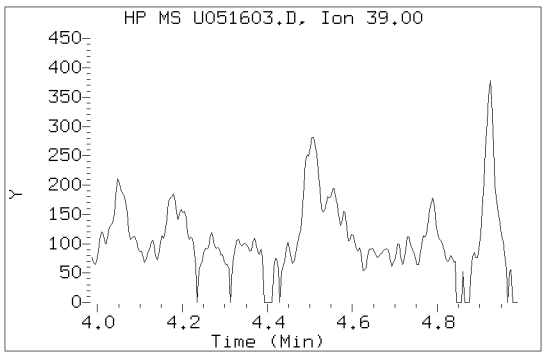
BEFORE

MASS
39
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
39
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

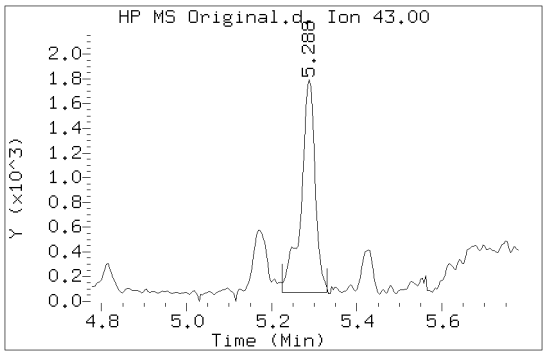


Isobutyl Alcohol (78-83-1)

Reason Code:

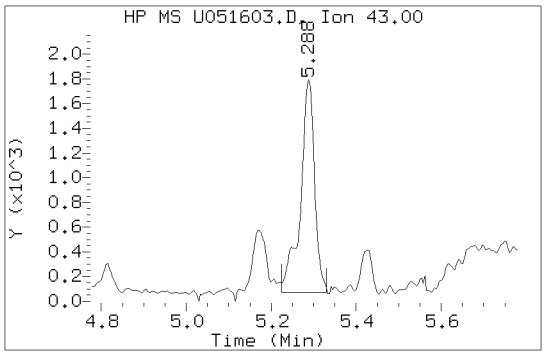
BEFORE

MASS
43
AREA
3967
HEIGHT
1721
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
3967
HEIGHT
1721
07-Jun-2024
11:57
rucha
patel



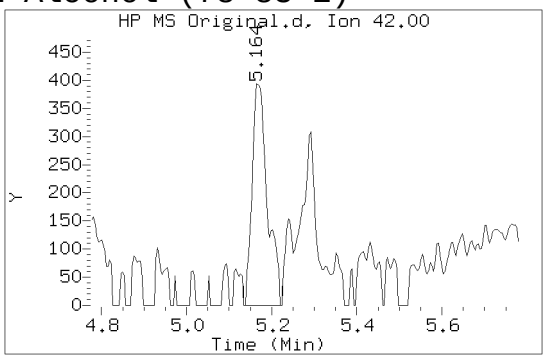
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Isobutyl Alcohol (78-83-1)

Reason Code:

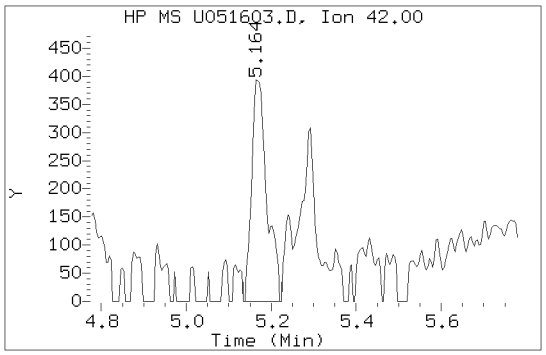
BEFORE

MASS
42
AREA
979
HEIGHT
394
07-Jun-2024
11:57
rucha
patel



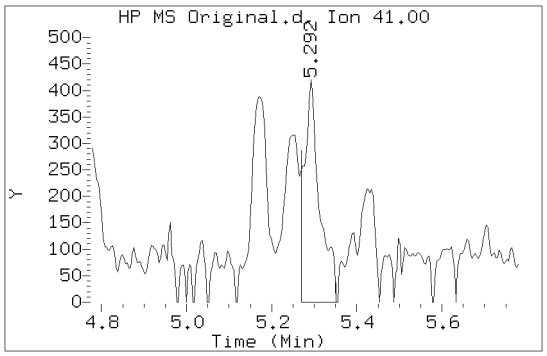
AFTER

MASS
42
AREA
979
HEIGHT
394
07-Jun-2024
11:57
rucha
patel



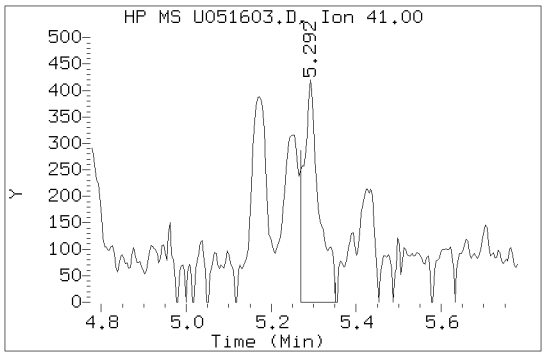
BEFORE

MASS
41
AREA
1051
HEIGHT
420
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
41
AREA
1051
HEIGHT
420
07-Jun-2024
11:57
rucha
patel

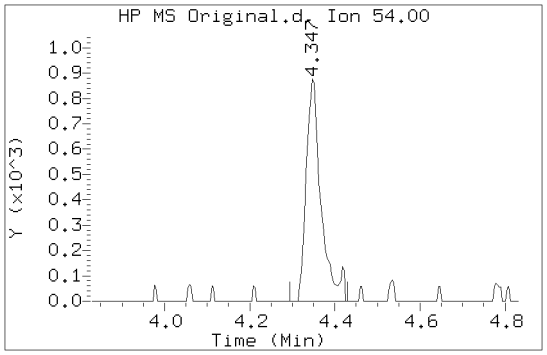


Propionitrile (107-12-0)

Reason Code:

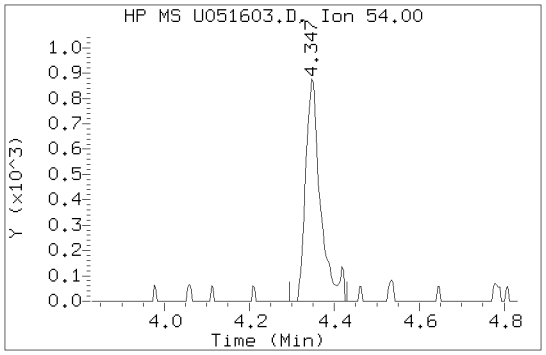
BEFORE

MASS
54
AREA
2119
HEIGHT
877
07-Jun-2024
11:57
rucha
patel



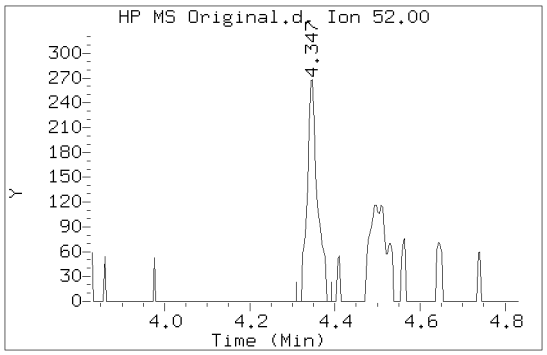
AFTER

MASS
54
AREA
2119
HEIGHT
877
07-Jun-2024
11:57
rucha
patel



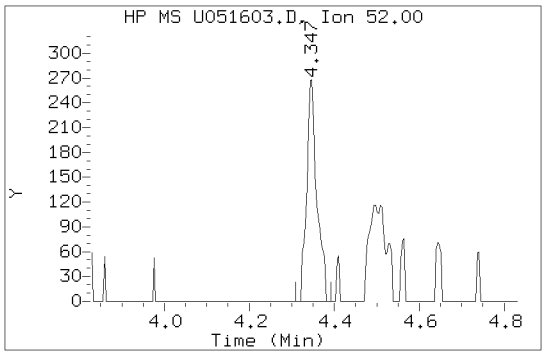
BEFORE

MASS
52
AREA
442
HEIGHT
268
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
52
AREA
442
HEIGHT
268
07-Jun-2024
11:57
rucha
patel



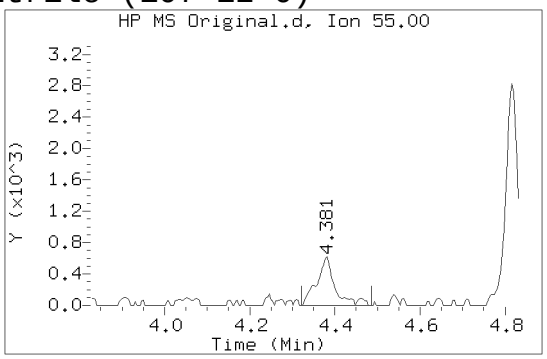
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

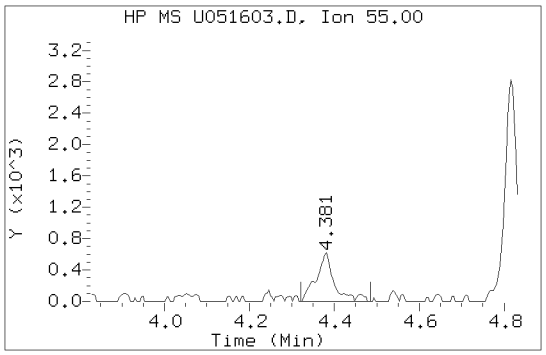
BEFORE

MASS
55
AREA
1843
HEIGHT
622
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
55
AREA
1843
HEIGHT
622
07-Jun-2024
11:57
rucha
patel

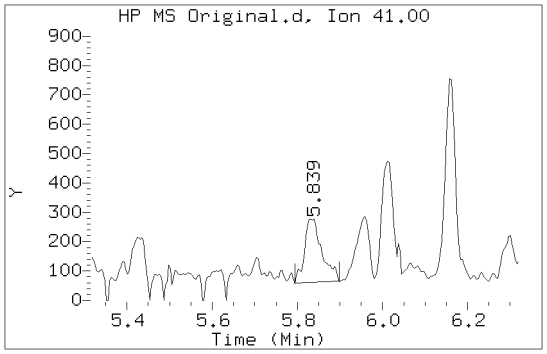


Methyl Methacrylate (80-62-6)

Reason Code:

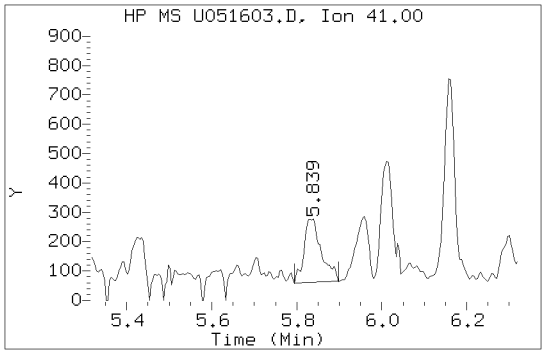
BEFORE

MASS
41
AREA
614
HEIGHT
216
07-Jun-2024
11:57
rucha
patel



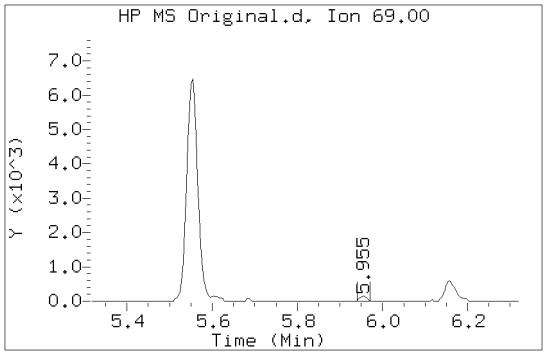
AFTER

MASS
41
AREA
614
HEIGHT
216
07-Jun-2024
11:57
rucha
patel



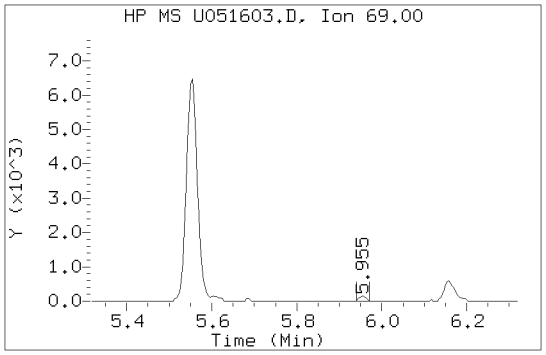
BEFORE

MASS
69
AREA
163
HEIGHT
142
07-Jun-2024
11:57
rucha
patel



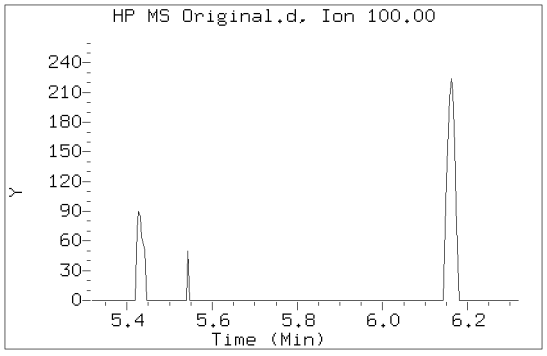
AFTER

MASS
69
AREA
163
HEIGHT
142
07-Jun-2024
11:57
rucha
patel



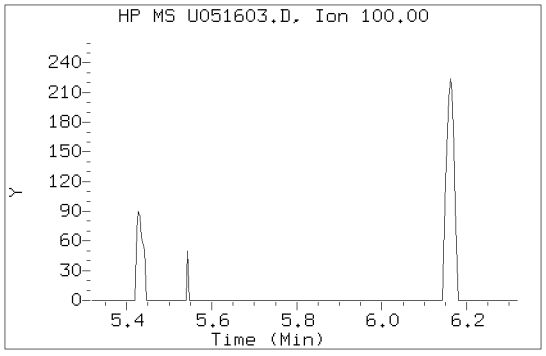
BEFORE

MASS
100
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
100
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



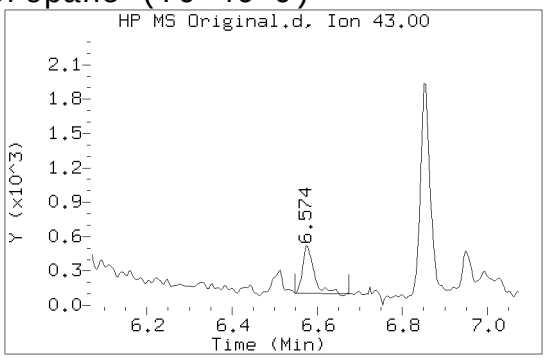
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

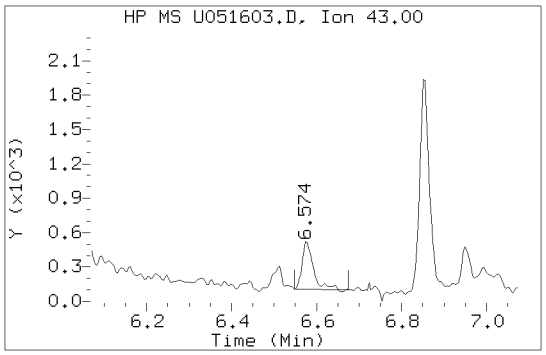
BEFORE

MASS
43
AREA
730
HEIGHT
411
07-Jun-2024
11:57
rucha
patel



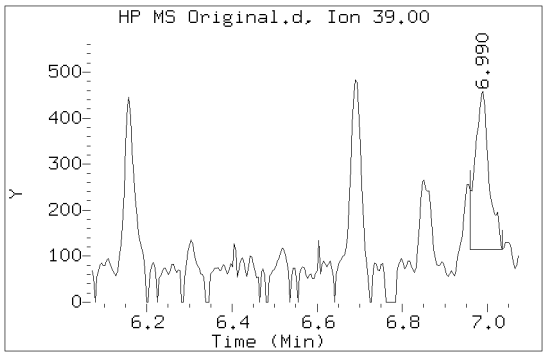
AFTER

MASS
43
AREA
730
HEIGHT
411
07-Jun-2024
11:57
rucha
patel



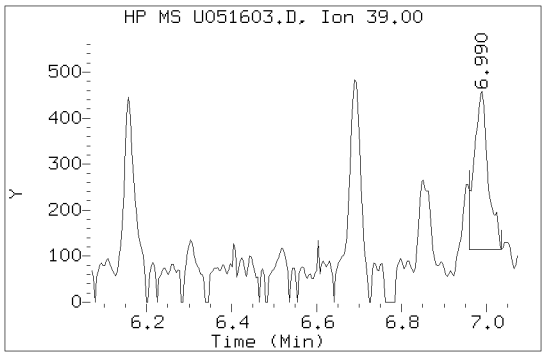
BEFORE

MASS
39
AREA
783
HEIGHT
343
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
39
AREA
783
HEIGHT
343
07-Jun-2024
11:57
rucha
patel

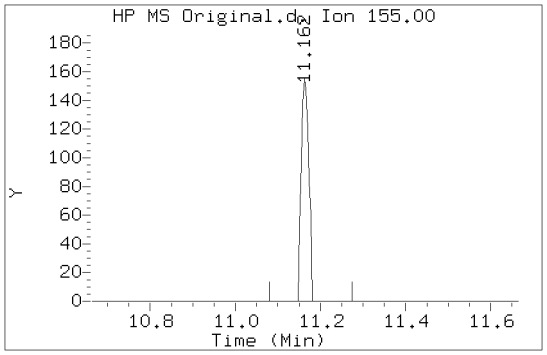


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

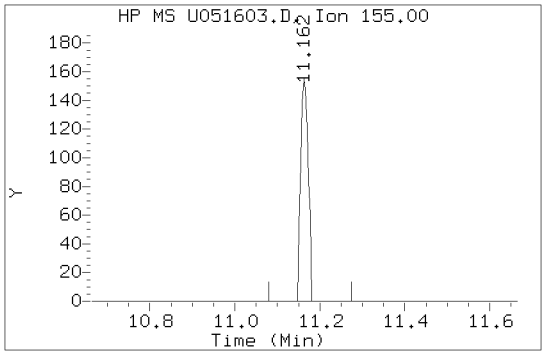
BEFORE

MASS
155
AREA
192
HEIGHT
155
07-Jun-2024
11:57
rucha
patel



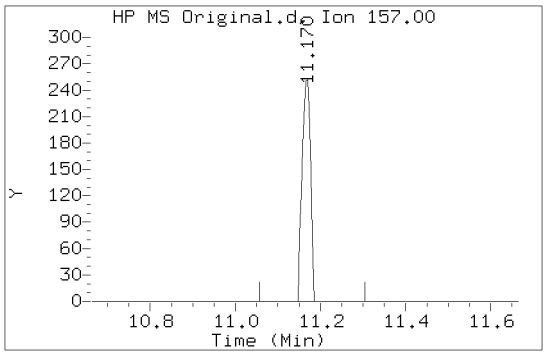
AFTER

MASS
155
AREA
192
HEIGHT
155
07-Jun-2024
11:57
rucha
patel



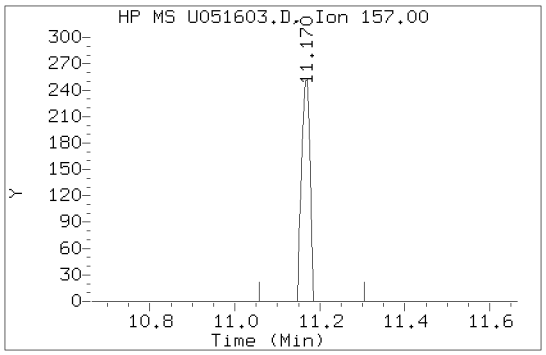
BEFORE

MASS
157
AREA
347
HEIGHT
252
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
157
AREA
347
HEIGHT
252
07-Jun-2024
11:57
rucha
patel



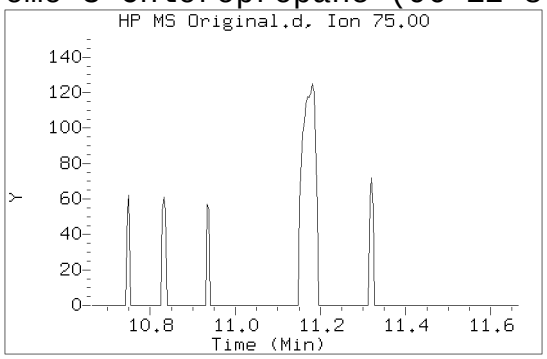
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

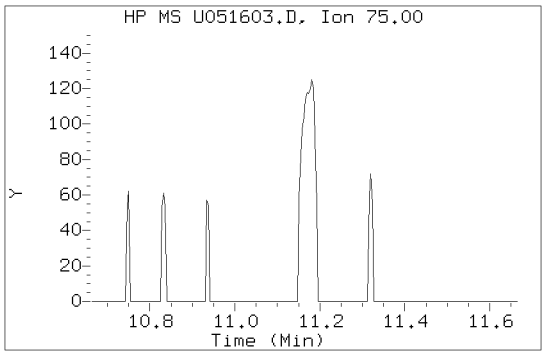
BEFORE

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

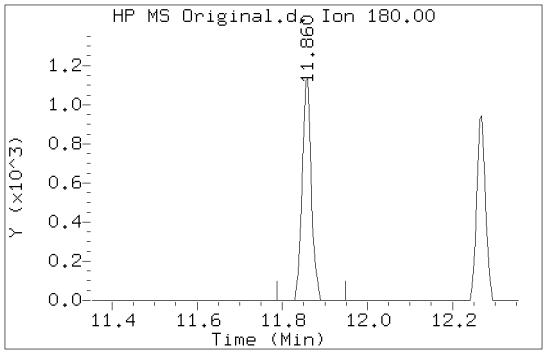


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

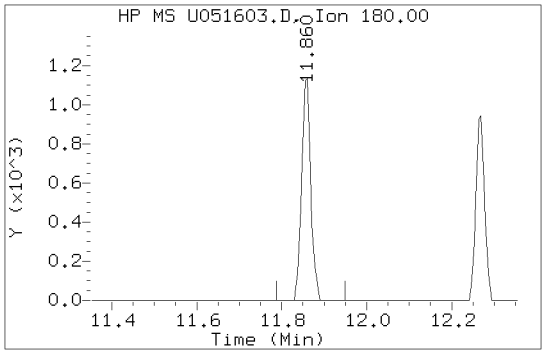
BEFORE

MASS
180
AREA
1684
HEIGHT
1133
07-Jun-2024
11:57
rucha
patel



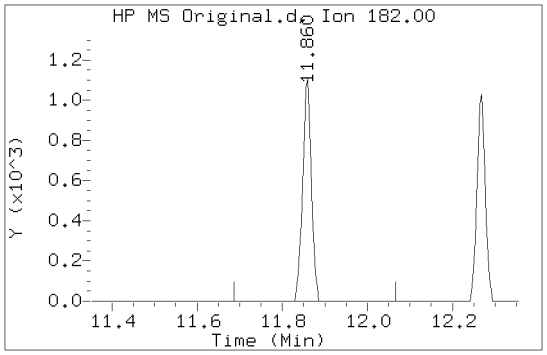
AFTER

MASS
180
AREA
1684
HEIGHT
1133
07-Jun-2024
11:57
rucha
patel



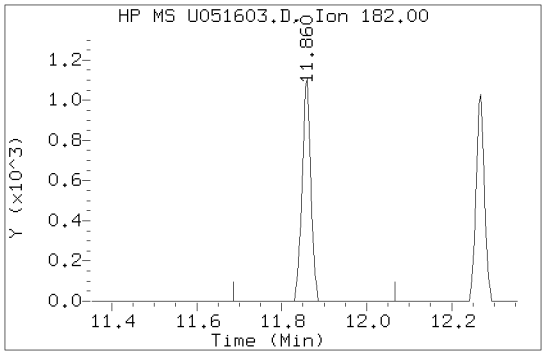
BEFORE

MASS
182
AREA
1560
HEIGHT
1106
07-Jun-2024
11:57
rucha
patel



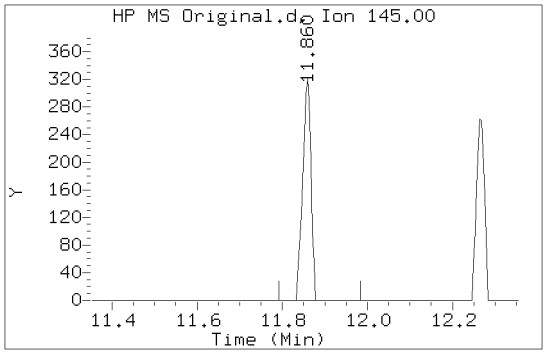
AFTER

MASS
182
AREA
1560
HEIGHT
1106
07-Jun-2024
11:57
rucha
patel



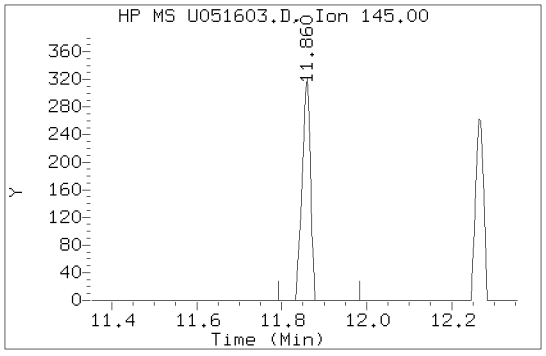
BEFORE

MASS
145
AREA
434
HEIGHT
321
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
145
AREA
434
HEIGHT
321
07-Jun-2024
11:57
rucha
patel

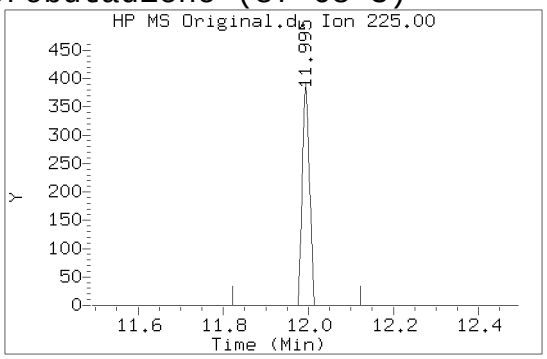


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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

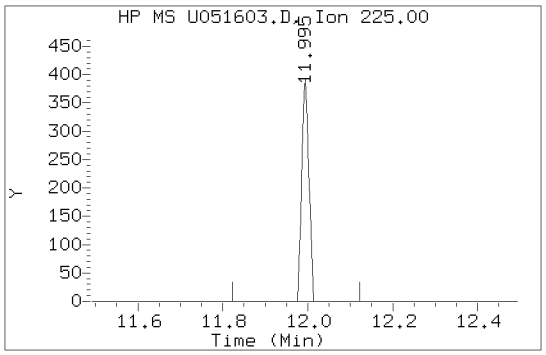
Hexachlorobutadiene (87-68-3)

Reason Code:

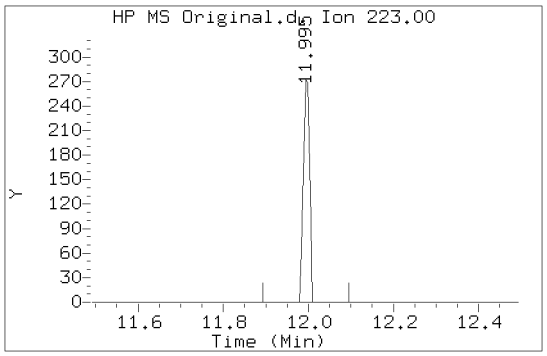
BEFORE
MASS
225
AREA
457
HEIGHT
391
07-Jun-2024
11:57
rucha
patel



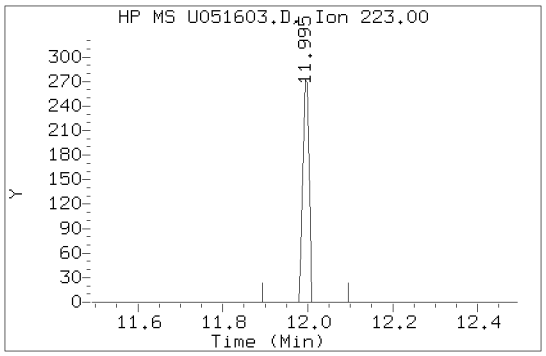
AFTER
MASS
225
AREA
457
HEIGHT
391
07-Jun-2024
11:57
rucha
patel



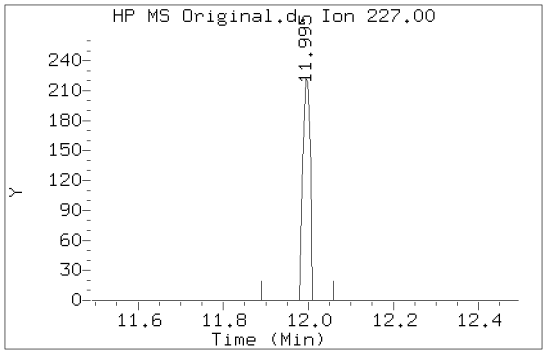
BEFORE
MASS
223
AREA
279
HEIGHT
272
07-Jun-2024
11:57
rucha
patel



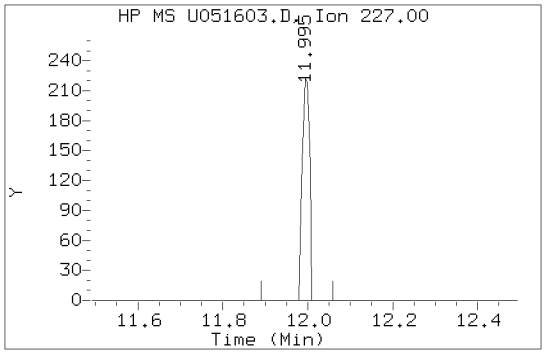
AFTER
MASS
223
AREA
279
HEIGHT
272
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
227
AREA
265
HEIGHT
222
07-Jun-2024
11:57
rucha
patel



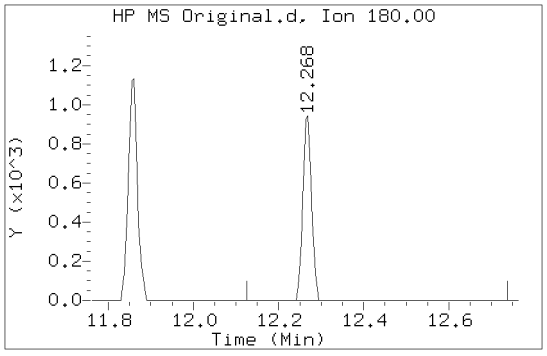
AFTER
MASS
227
AREA
265
HEIGHT
222
07-Jun-2024
11:57
rucha
patel



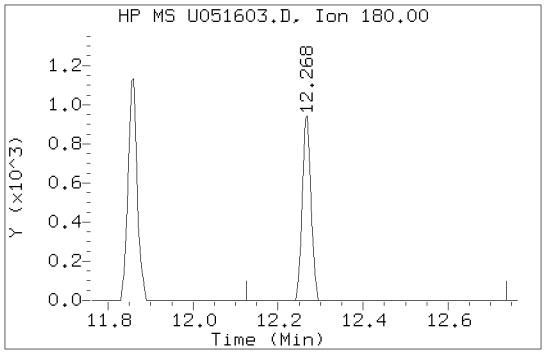
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
1335
HEIGHT
945
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
180
AREA
1335
HEIGHT
945
07-Jun-2024
11:57
rucha
patel



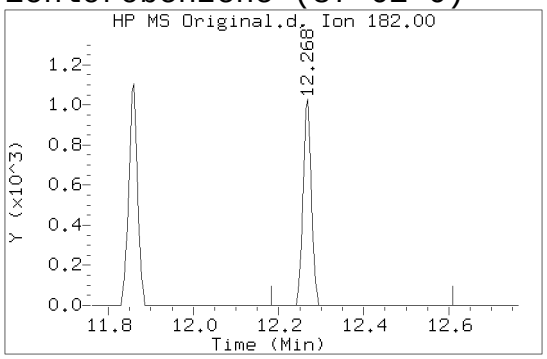
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

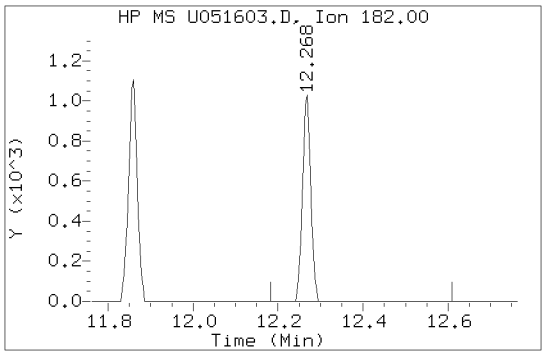
BEFORE

MASS
182
AREA
1381
HEIGHT
1029
07-Jun-2024
11:57
rucha
patel



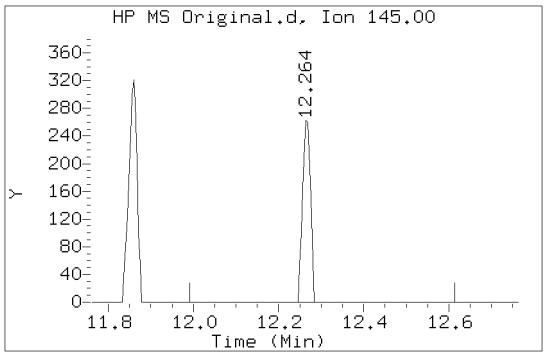
AFTER

MASS
182
AREA
1381
HEIGHT
1029
07-Jun-2024
11:57
rucha
patel



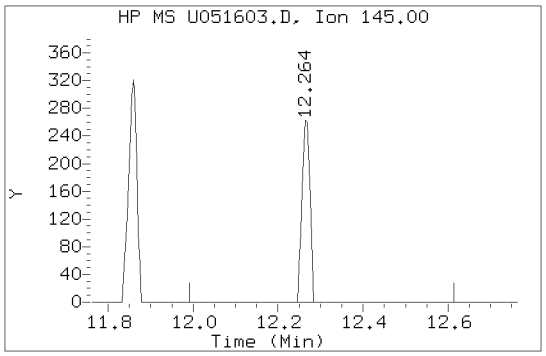
BEFORE

MASS
145
AREA
342
HEIGHT
263
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
145
AREA
342
HEIGHT
263
07-Jun-2024
11:57
rucha
patel

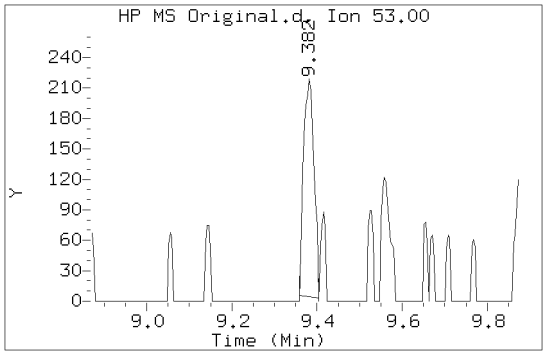


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

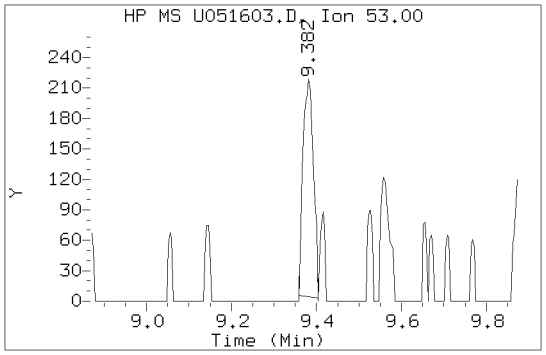
BEFORE

MASS
53
AREA
362
HEIGHT
214
07-Jun-2024
11:57
rucha
patel



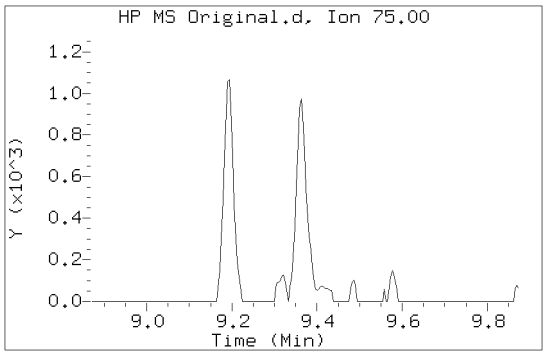
AFTER

MASS
53
AREA
362
HEIGHT
214
07-Jun-2024
11:57
rucha
patel



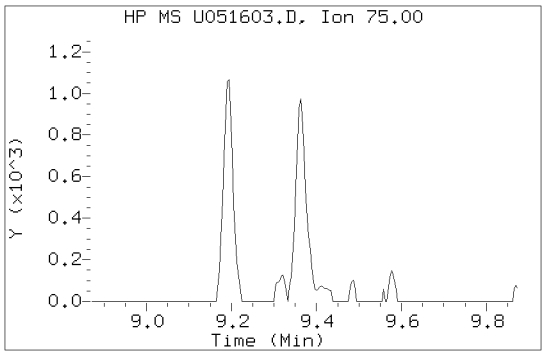
BEFORE

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



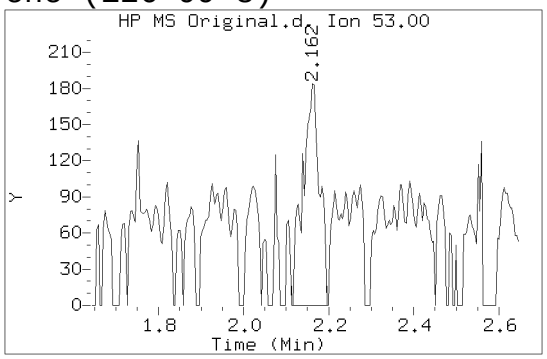
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroprene (126-99-8)

Reason Code:

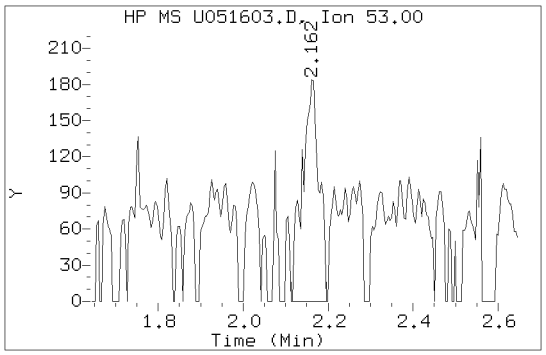
BEFORE

MASS
53
AREA
502
HEIGHT
184
07-Jun-2024
11:57
rucha
patel



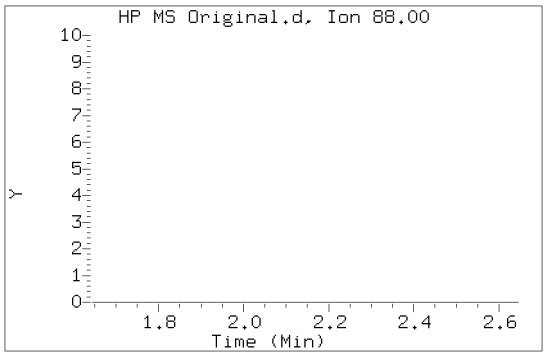
AFTER

MASS
53
AREA
502
HEIGHT
184
07-Jun-2024
11:57
rucha
patel



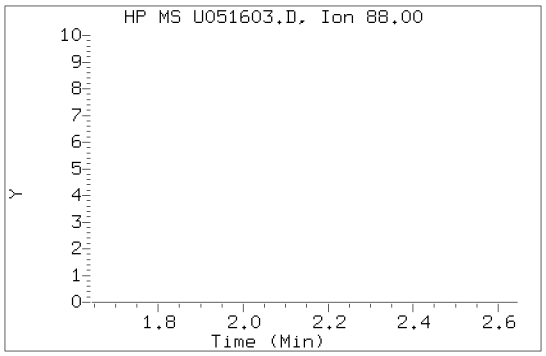
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

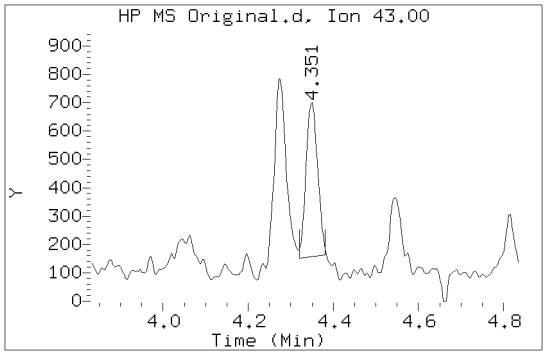


Ethyl Acetate (141-78-6)

Reason Code:

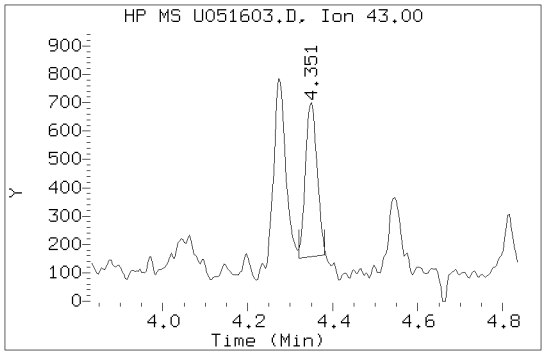
BEFORE

MASS
43
AREA
1031
HEIGHT
542
07-Jun-2024
11:57
rucha
patel



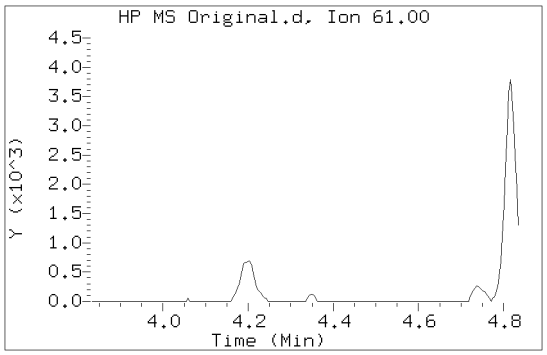
AFTER

MASS
43
AREA
1031
HEIGHT
542
07-Jun-2024
11:57
rucha
patel



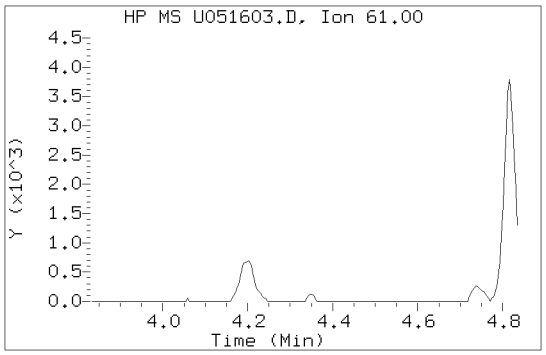
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



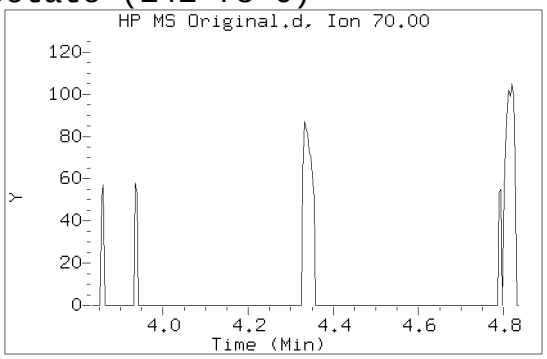
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

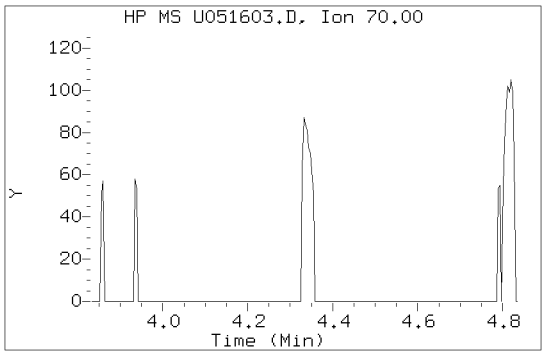
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

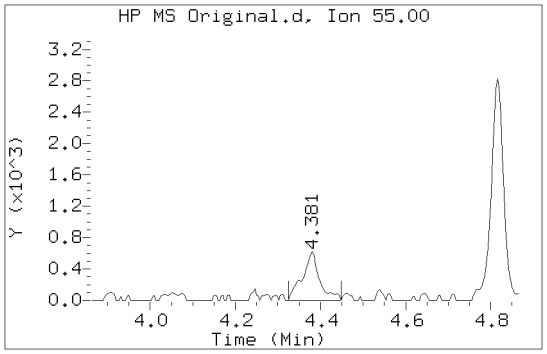


Methyl Acrylate (96-33-3)

Reason Code:

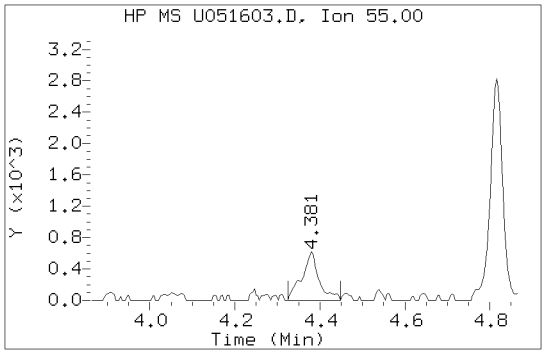
BEFORE

MASS
55
AREA
1727
HEIGHT
621
07-Jun-2024
11:57
rucha
patel



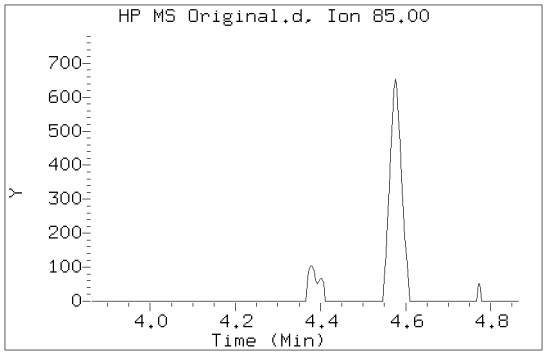
AFTER

MASS
55
AREA
1727
HEIGHT
621
07-Jun-2024
11:57
rucha
patel



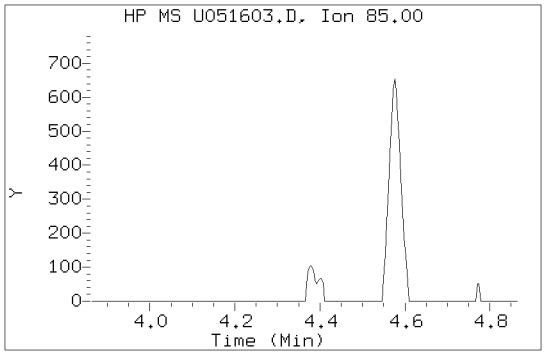
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
85
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

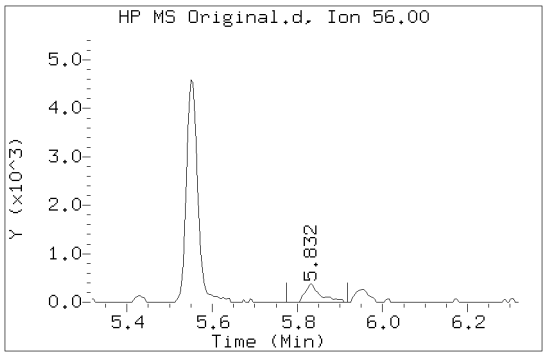


n-Butanol (71-36-3)

Reason Code:

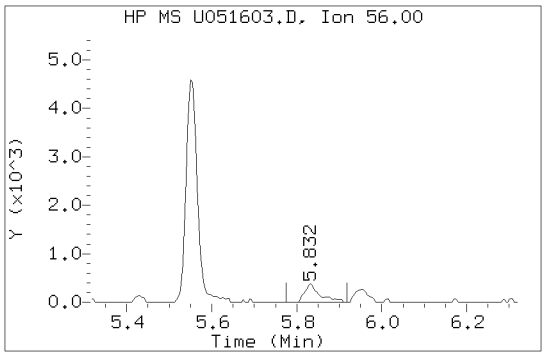
BEFORE

MASS
56
AREA
938
HEIGHT
389
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
56
AREA
938
HEIGHT
389
07-Jun-2024
11:57
rucha
patel



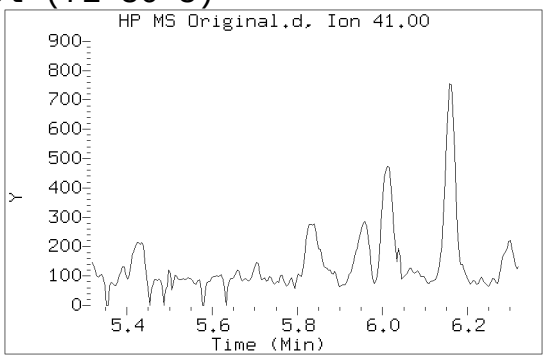
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butanol (71-36-3)

Reason Code:

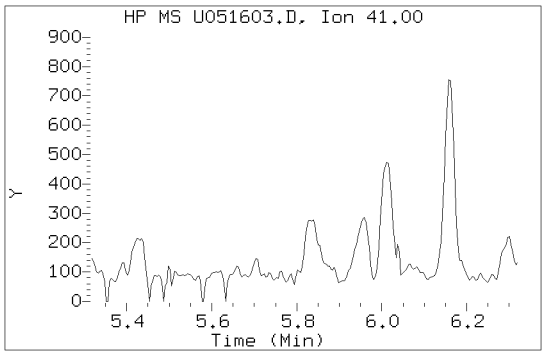
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

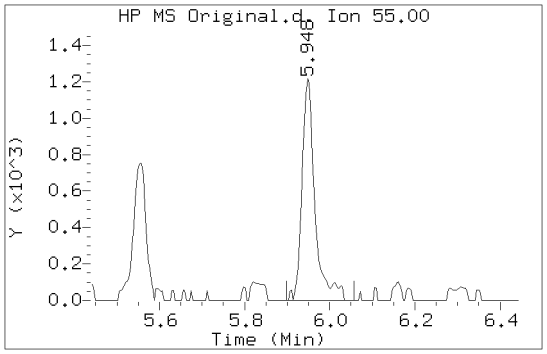


Ethyl Acrylate (140-88-5)

Reason Code:

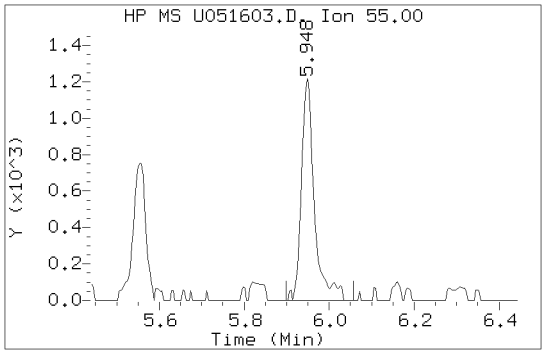
BEFORE

MASS
55
AREA
2572
HEIGHT
1217
07-Jun-2024
11:57
rucha
patel



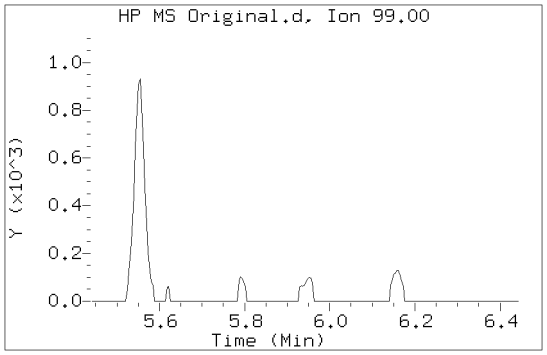
AFTER

MASS
55
AREA
2572
HEIGHT
1217
07-Jun-2024
11:57
rucha
patel



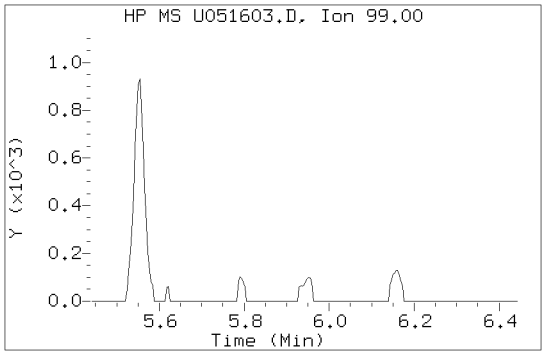
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
99
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

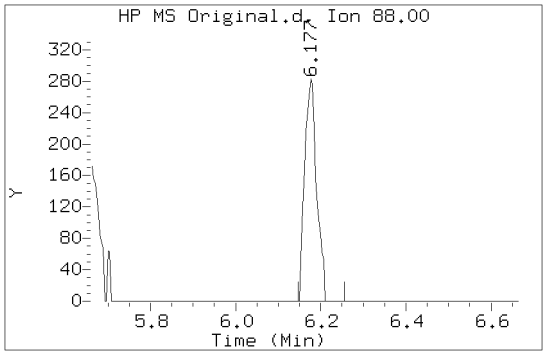


1,4-Dioxane ()

Reason Code:

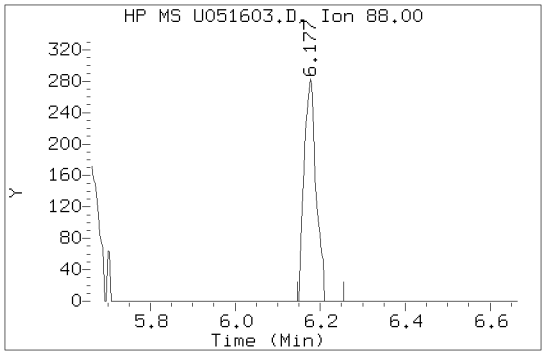
BEFORE

MASS
88
AREA
550
HEIGHT
283
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
88
AREA
550
HEIGHT
283
07-Jun-2024
11:57
rucha
patel



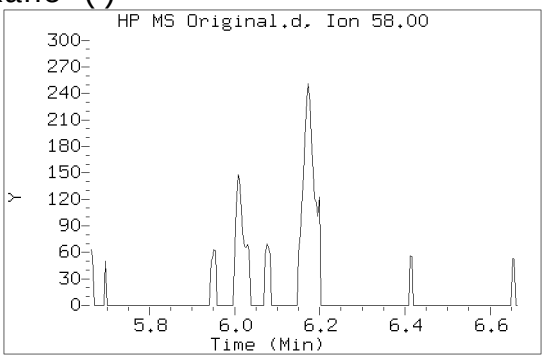
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

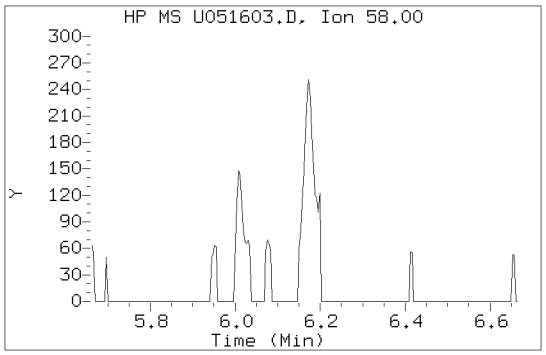
BEFORE

MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

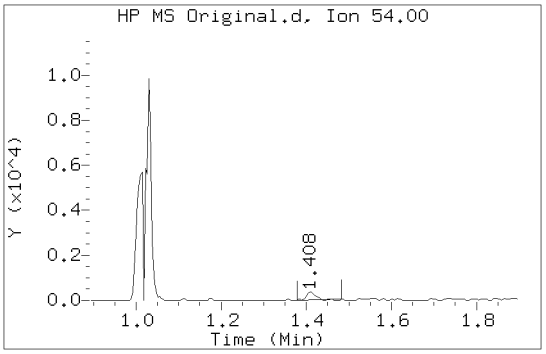


1,3-Butadiene (106-99-0)

Reason Code:

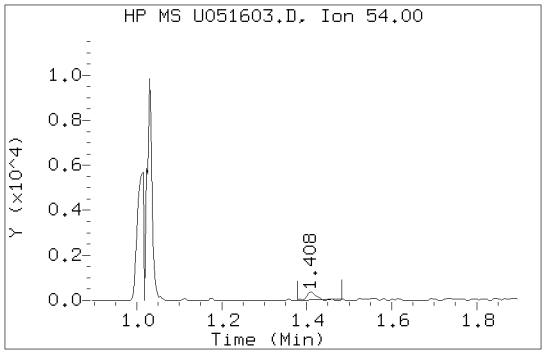
BEFORE

MASS
54
AREA
458
HEIGHT
353
07-Jun-2024
11:57
rucha
patel



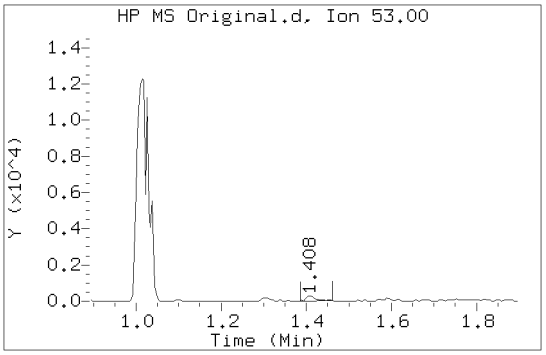
AFTER

MASS
54
AREA
458
HEIGHT
353
07-Jun-2024
11:57
rucha
patel



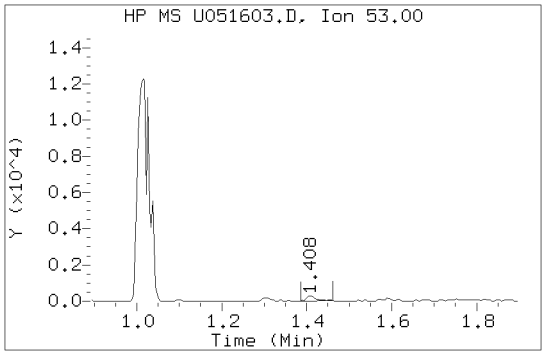
BEFORE

MASS
53
AREA
419
HEIGHT
284
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
53
AREA
419
HEIGHT
284
07-Jun-2024
11:57
rucha
patel

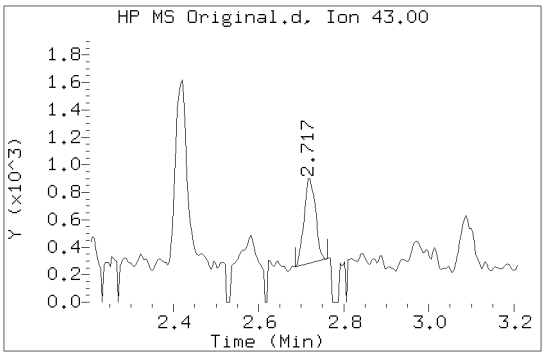


Methyl acetate (79-20-9)

Reason Code:

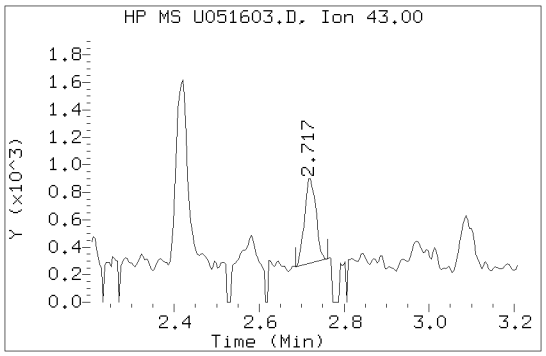
BEFORE

MASS
43
AREA
1133
HEIGHT
612
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
1133
HEIGHT
612
07-Jun-2024
11:57
rucha
patel

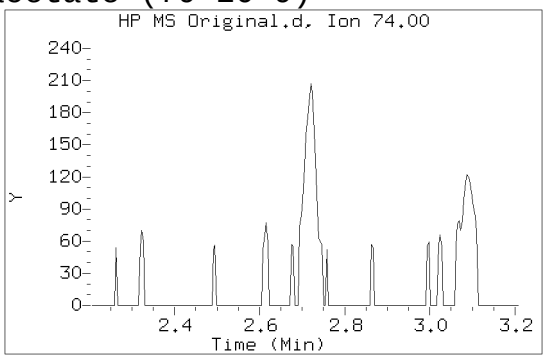


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

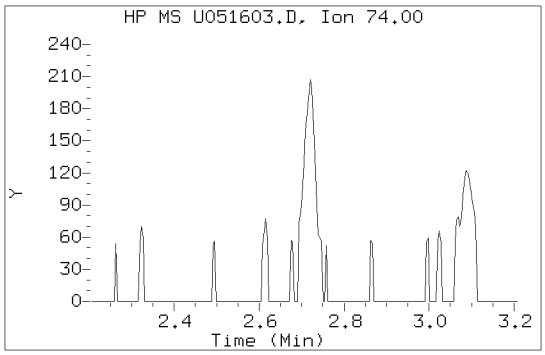
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
74
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



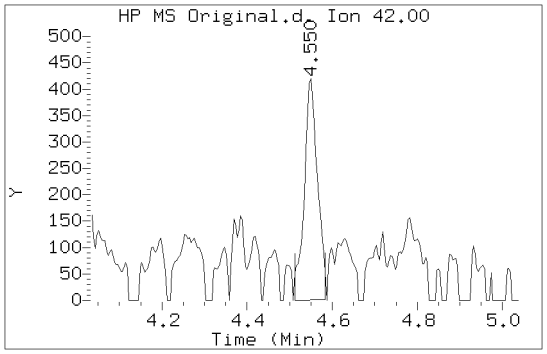
AFTER
MASS
74
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



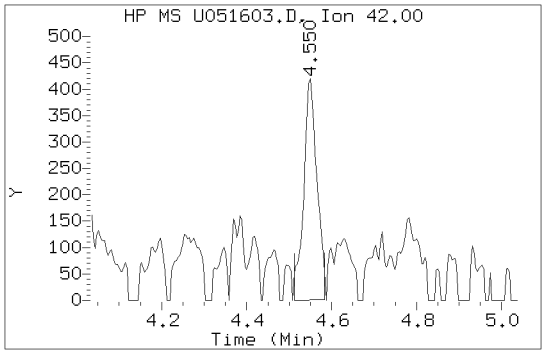
Tetrahydrofuran (109-99-9)

Reason Code:

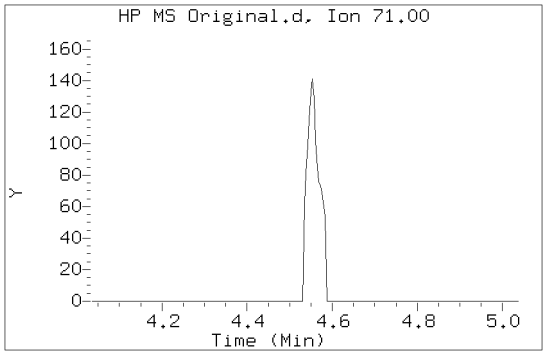
BEFORE
MASS
42
AREA
910
HEIGHT
419
07-Jun-2024
11:57
rucha
patel



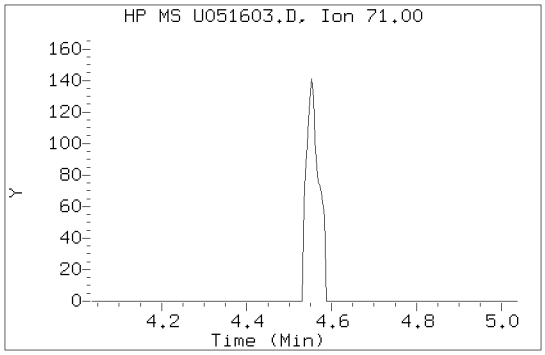
AFTER
MASS
42
AREA
910
HEIGHT
419
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
71
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



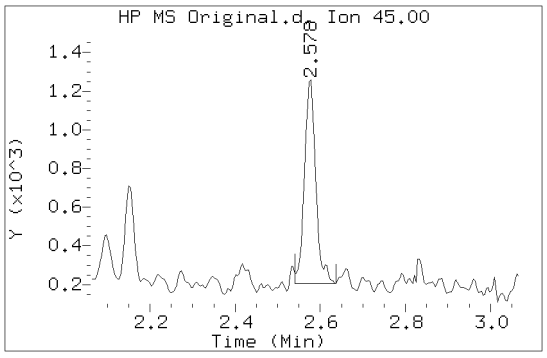
AFTER
MASS
71
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



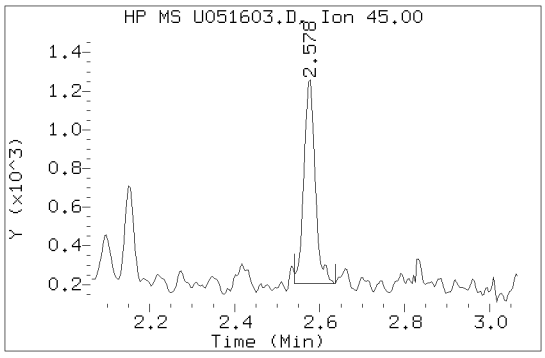
Isopropyl alcohol (67-63-0)

Reason Code:

BEFORE
MASS
45
AREA
1954
HEIGHT
1054
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
45
AREA
1954
HEIGHT
1054
07-Jun-2024
11:57
rucha
patel



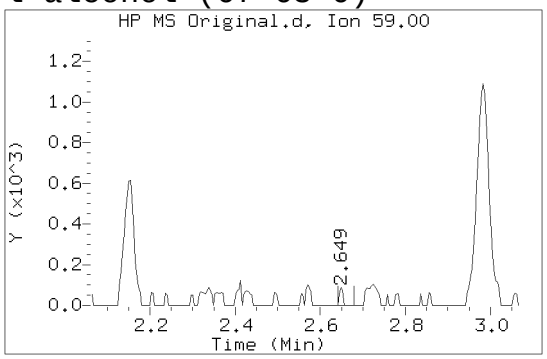
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl alcohol (67-63-0)

Reason Code:

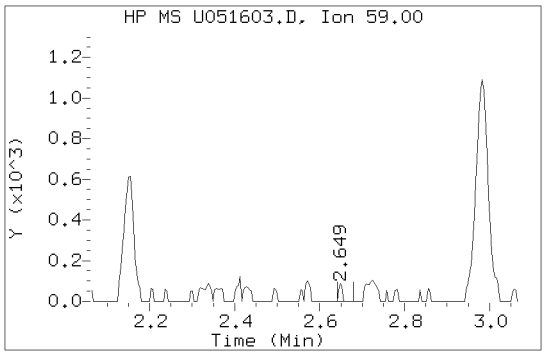
BEFORE

MASS
59
AREA
49
HEIGHT
87
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
59
AREA
49
HEIGHT
87
07-Jun-2024
11:57
rucha
patel

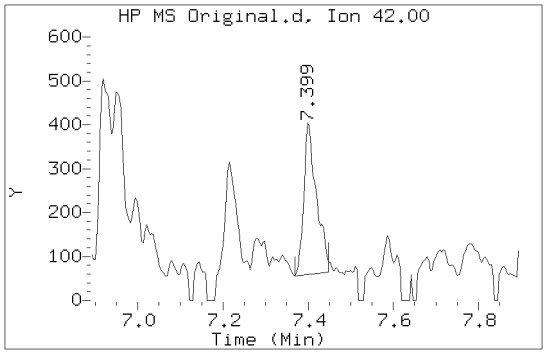


Amyl alcohol (71-41-0)

Reason Code:

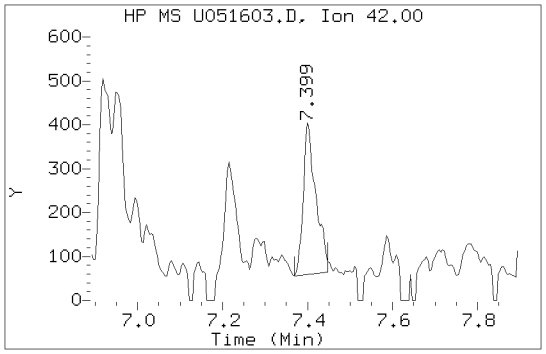
BEFORE

MASS
42
AREA
707
HEIGHT
344
07-Jun-2024
11:57
rucha
patel



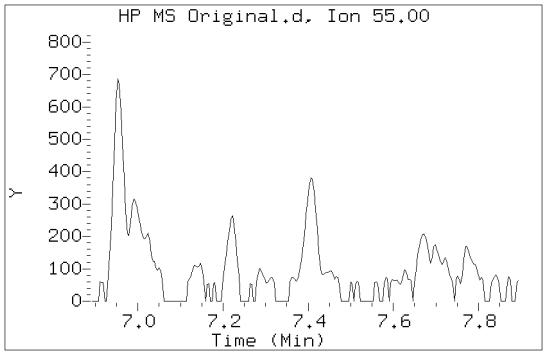
AFTER

MASS
42
AREA
707
HEIGHT
344
07-Jun-2024
11:57
rucha
patel



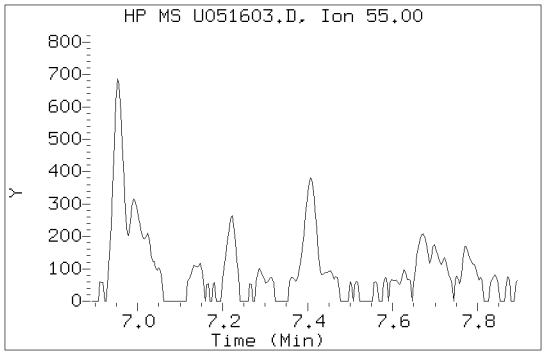
BEFORE

MASS
55
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



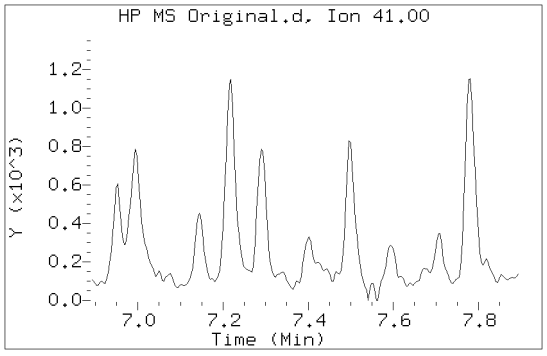
AFTER

MASS
55
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



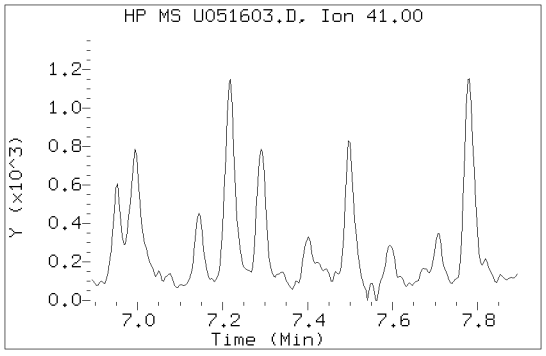
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

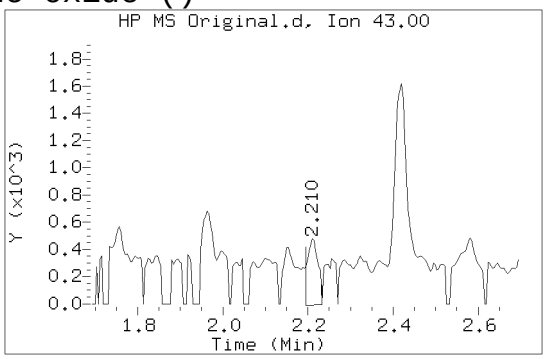


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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

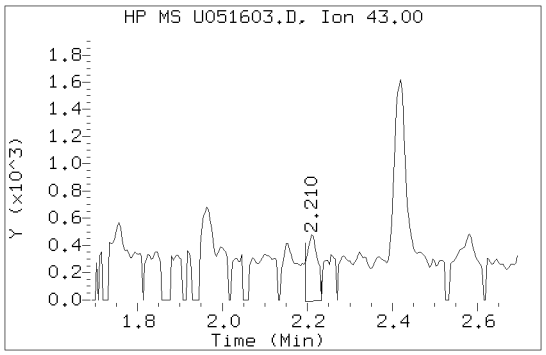
Propylene oxide ()

Reason Code:

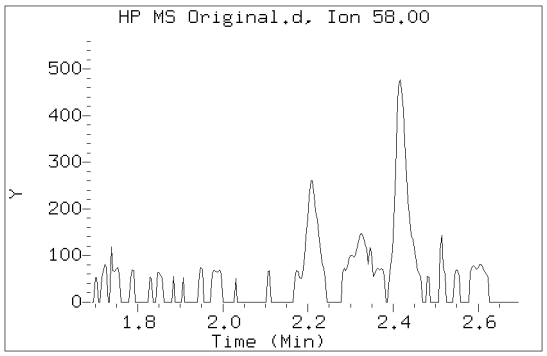
BEFORE
MASS
43
AREA
833
HEIGHT
487
07-Jun-2024
11:57
rucha
patel



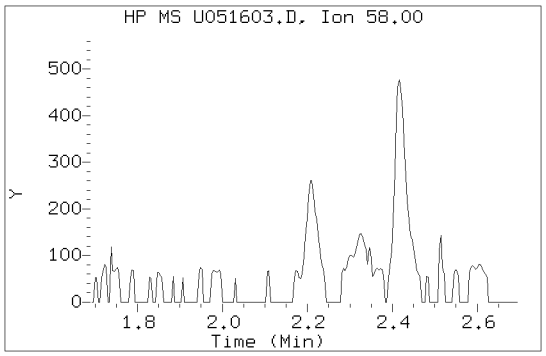
AFTER
MASS
43
AREA
833
HEIGHT
487
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



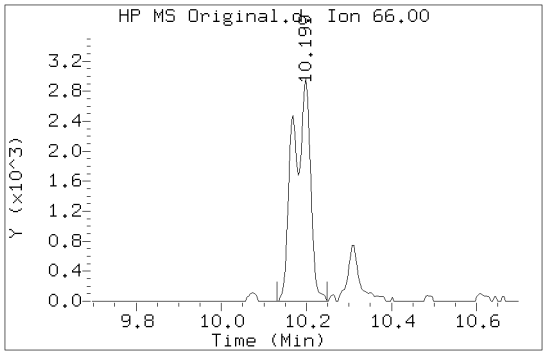
AFTER
MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



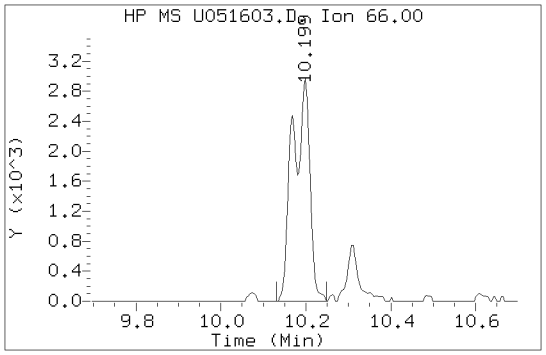
Dicyclopentadiene (77-73-6)

Reason Code:

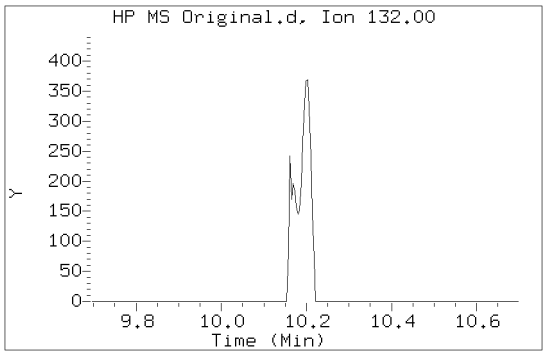
BEFORE
MASS
66
AREA
8272
HEIGHT
2962
07-Jun-2024
11:57
rucha
patel



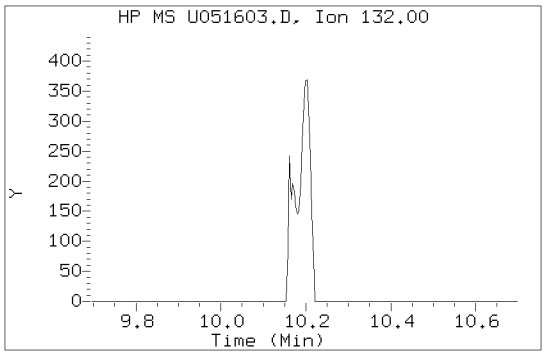
AFTER
MASS
66
AREA
8272
HEIGHT
2962
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
132
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
132
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



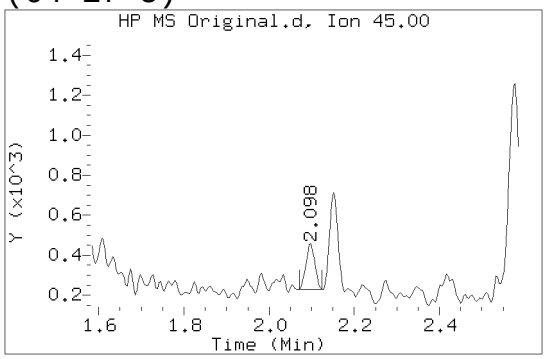
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

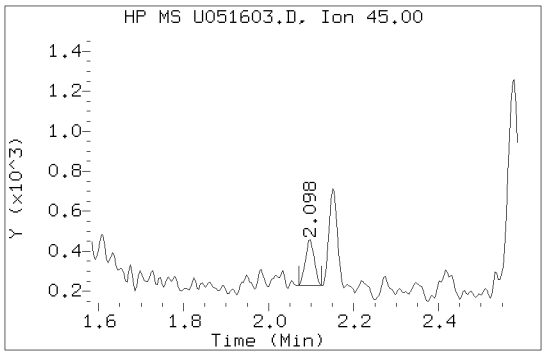
BEFORE

MASS
45
AREA
326
HEIGHT
228
07-Jun-2024
11:57
rucha
patel



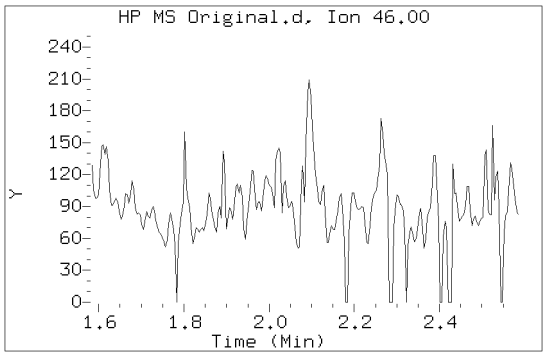
AFTER

MASS
45
AREA
326
HEIGHT
228
07-Jun-2024
11:57
rucha
patel



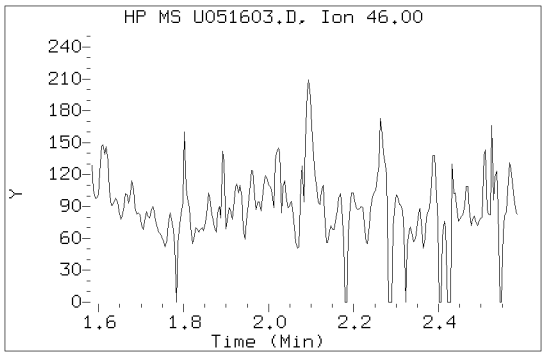
BEFORE

MASS
46
AREA
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HEIGHT
0
07-Jun-2024
11:57
rucha
patel



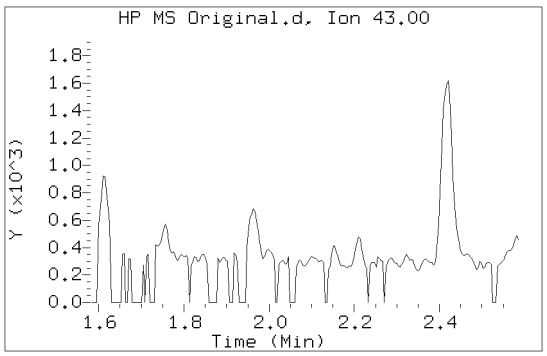
AFTER

MASS
46
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



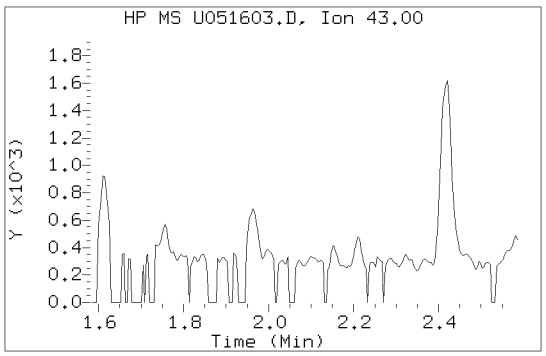
BEFORE

MASS
43
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

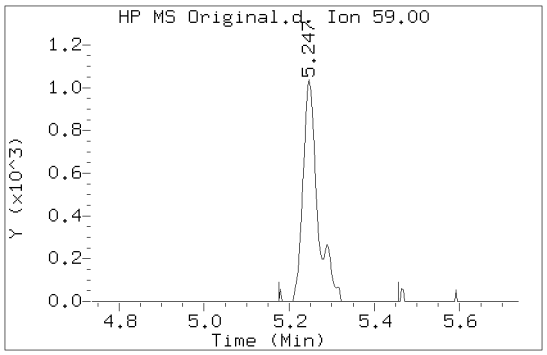


tert-Butyl formate (762-75-4)

Reason Code:

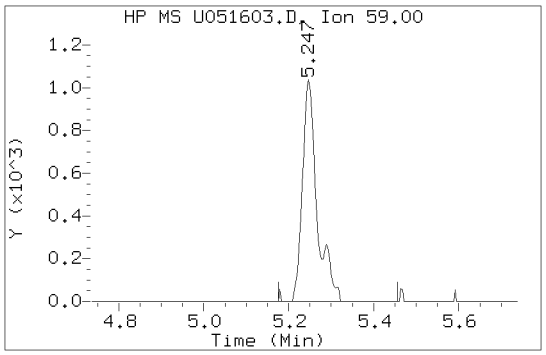
BEFORE

MASS
59
AREA
2484
HEIGHT
1037
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
59
AREA
2484
HEIGHT
1037
07-Jun-2024
11:57
rucha
patel



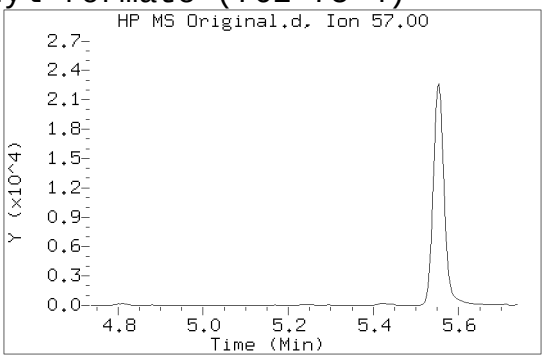
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

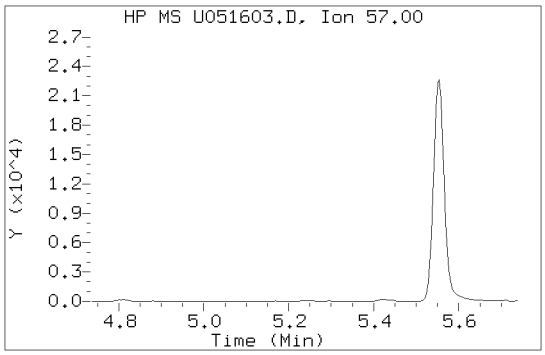
BEFORE

MASS
57
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



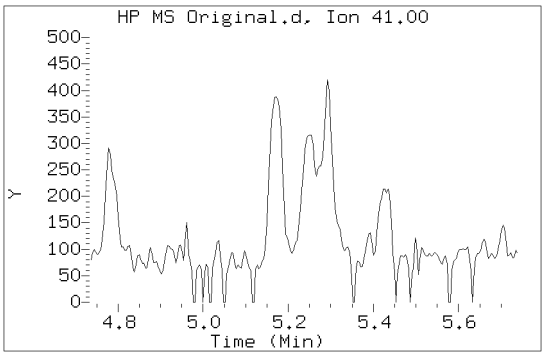
AFTER

MASS
57
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



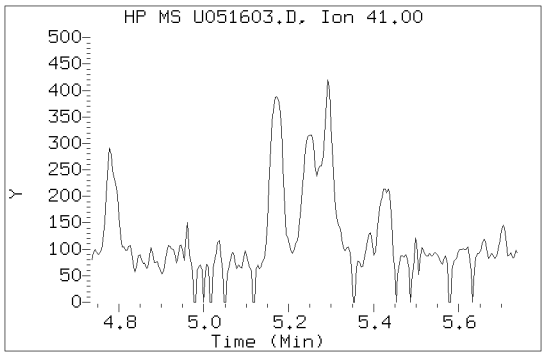
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

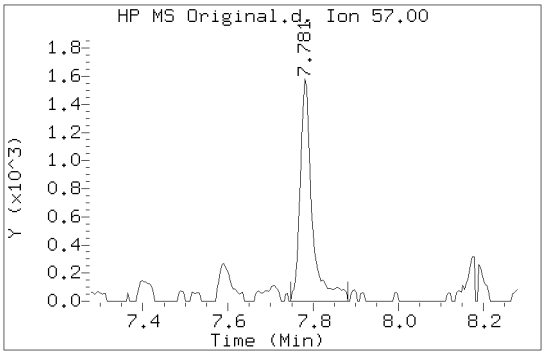


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

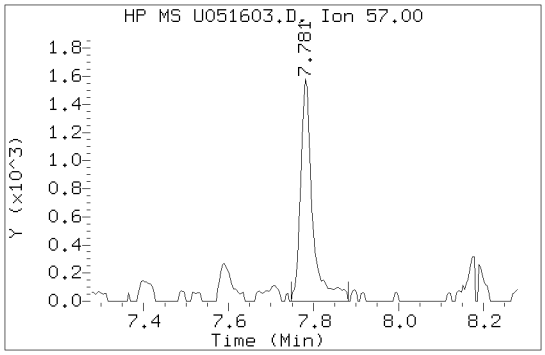
BEFORE

MASS
57
AREA
3081
HEIGHT
1581
07-Jun-2024
11:57
rucha
patel



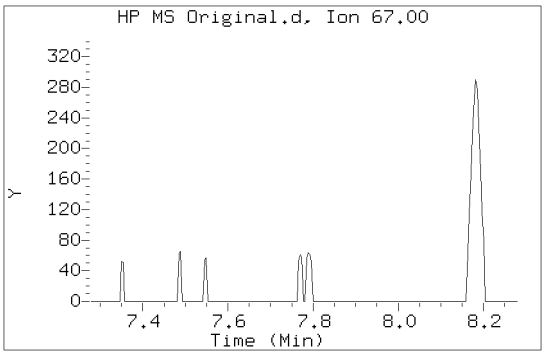
AFTER

MASS
57
AREA
3081
HEIGHT
1581
07-Jun-2024
11:57
rucha
patel



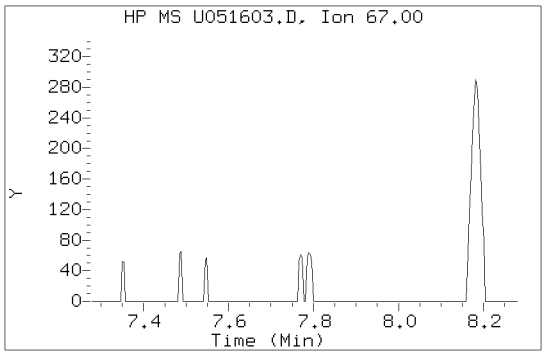
BEFORE

MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



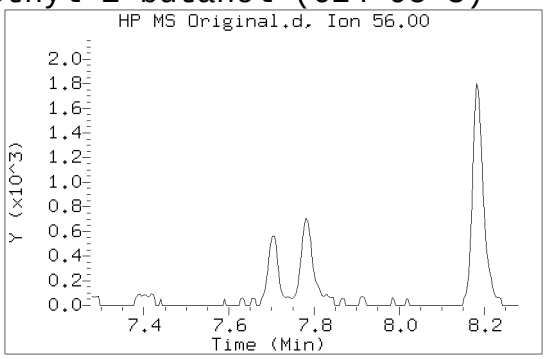
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051603.D
Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

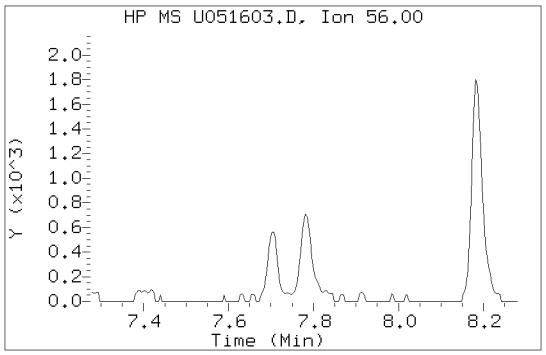
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

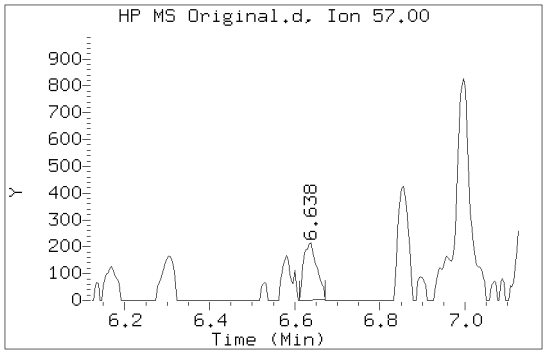


Epichlorohydrin (106-89-8)

Reason Code:

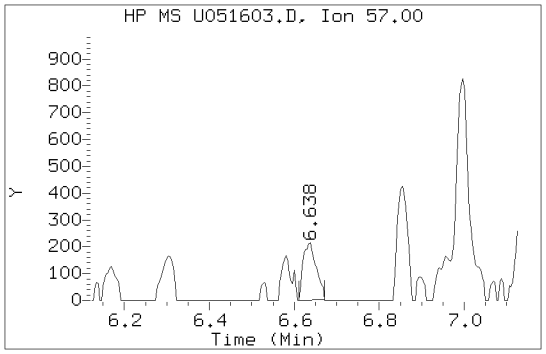
BEFORE

MASS
57
AREA
458
HEIGHT
215
07-Jun-2024
11:57
rucha
patel



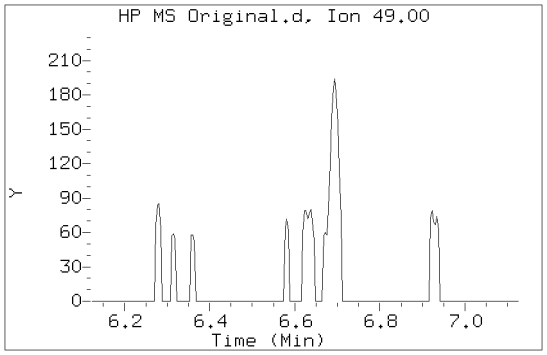
AFTER

MASS
57
AREA
458
HEIGHT
215
07-Jun-2024
11:57
rucha
patel



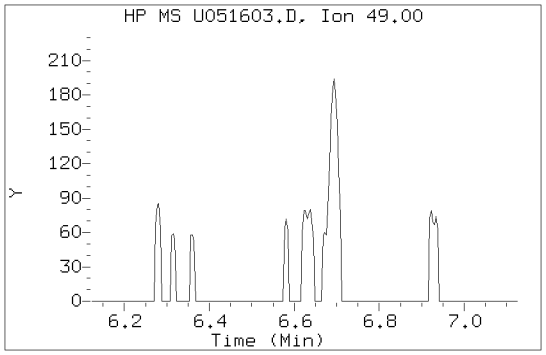
BEFORE

MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

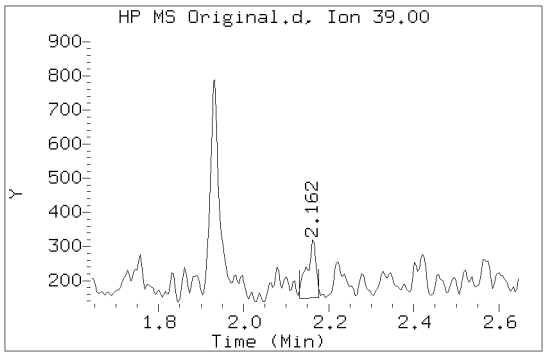


Isoprene (78-79-5)

Reason Code:

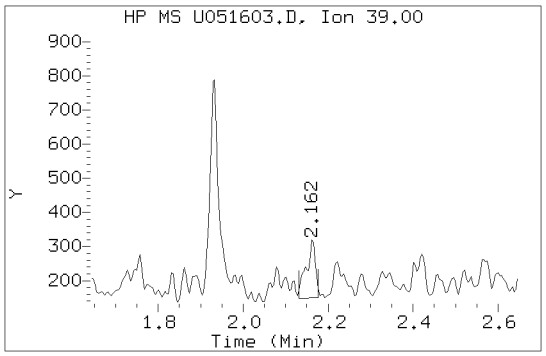
BEFORE

MASS
39
AREA
254
HEIGHT
169
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
39
AREA
254
HEIGHT
169
07-Jun-2024
11:57
rucha
patel

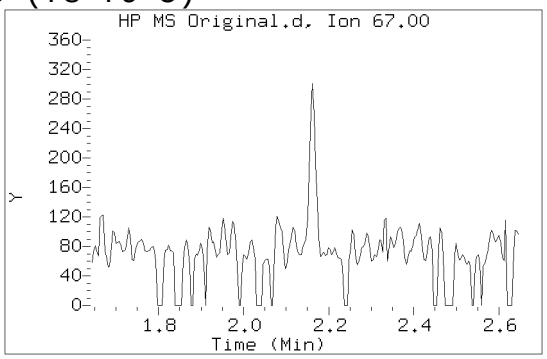


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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

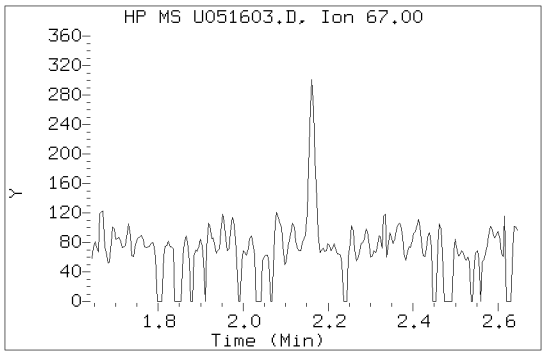
Isoprene (78-79-5)

Reason Code:

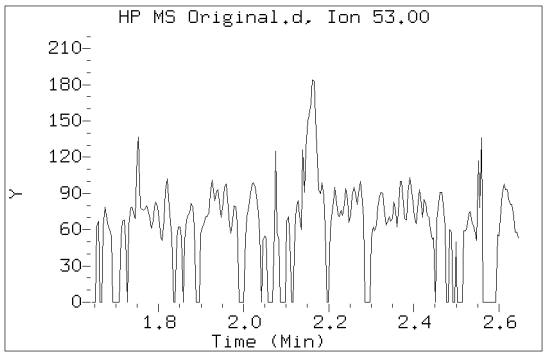
BEFORE
MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



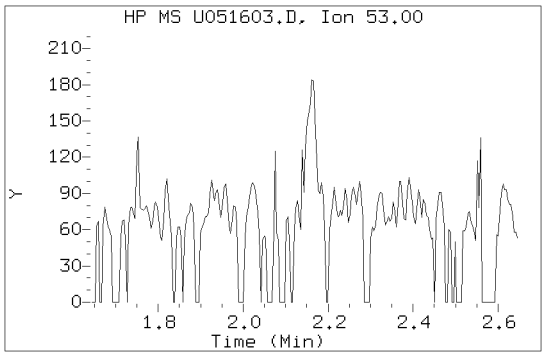
AFTER
MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
53
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



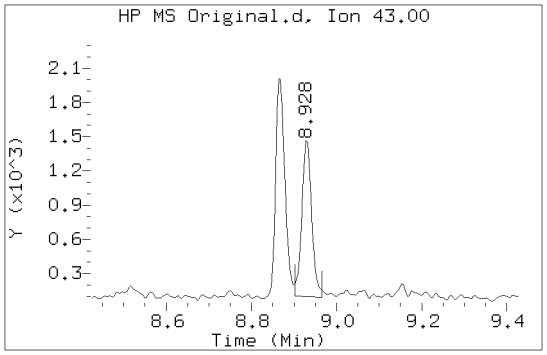
AFTER
MASS
53
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



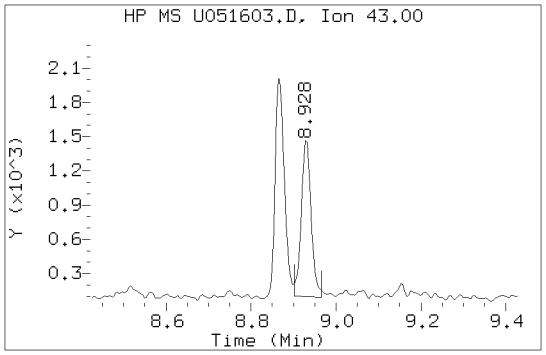
n-Amyl acetate (628-63-7)

Reason Code:

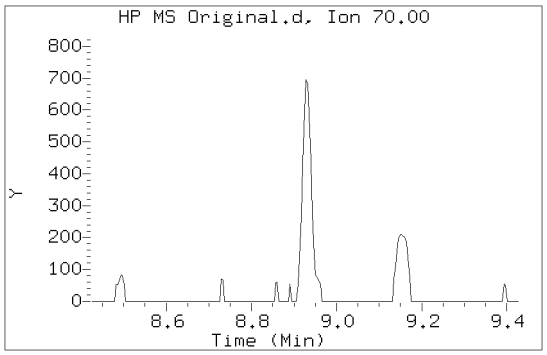
BEFORE
MASS
43
AREA
2211
HEIGHT
1368
07-Jun-2024
11:57
rucha
patel



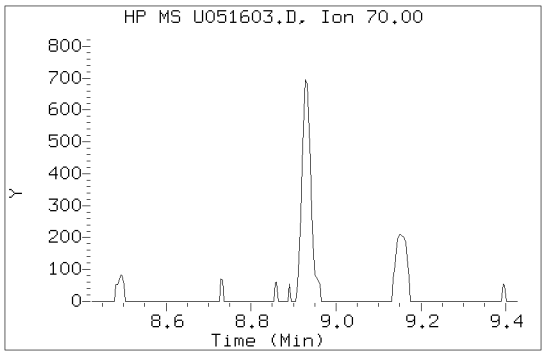
AFTER
MASS
43
AREA
2211
HEIGHT
1368
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



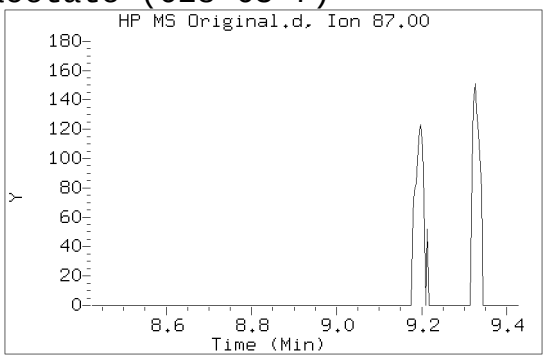
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

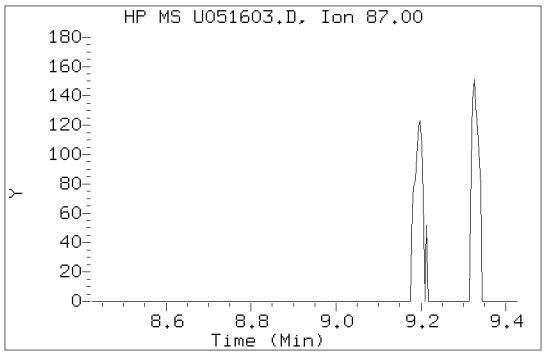
BEFORE

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

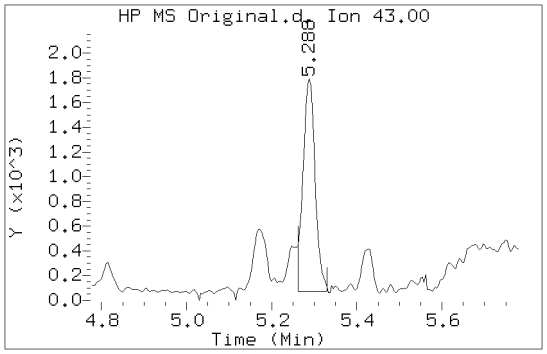


Isopropyl acetate (108-21-4)

Reason Code:

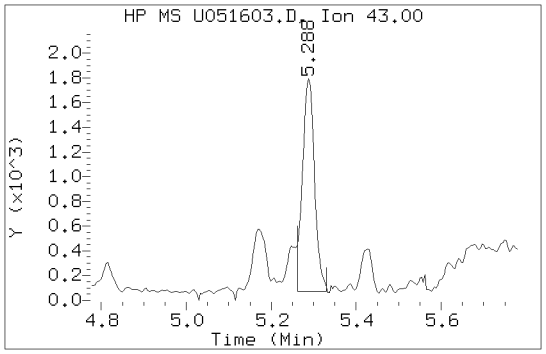
BEFORE

MASS
43
AREA
3398
HEIGHT
1718
07-Jun-2024
11:57
rucha
patel



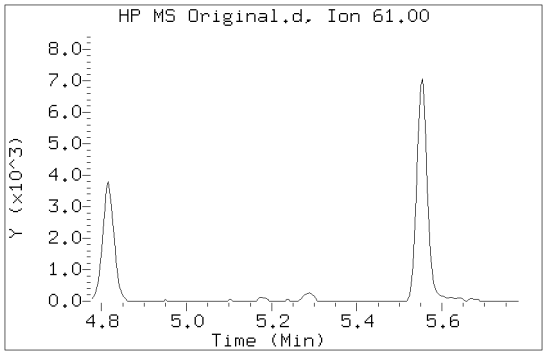
AFTER

MASS
43
AREA
3398
HEIGHT
1718
07-Jun-2024
11:57
rucha
patel



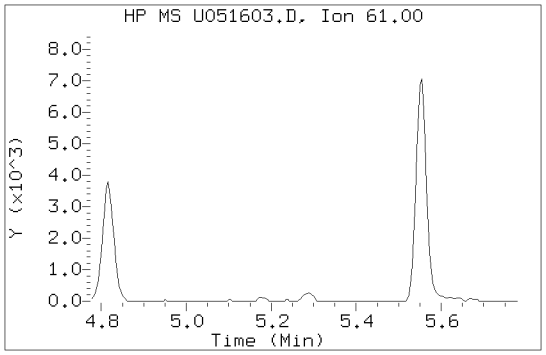
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

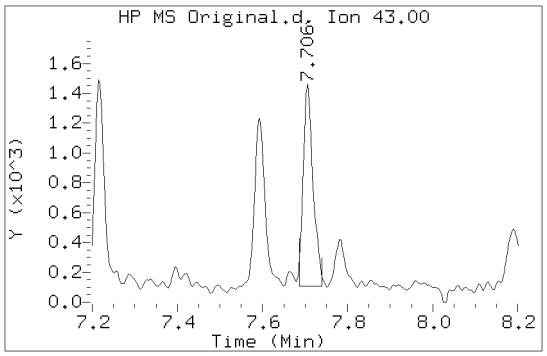


n-Butyl acetate (123-86-4)

Reason Code:

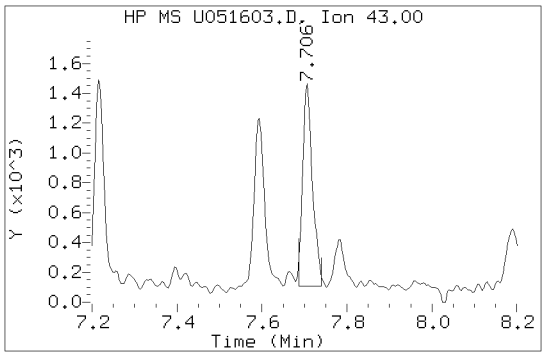
BEFORE

MASS
43
AREA
2165
HEIGHT
1359
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
2165
HEIGHT
1359
07-Jun-2024
11:57
rucha
patel



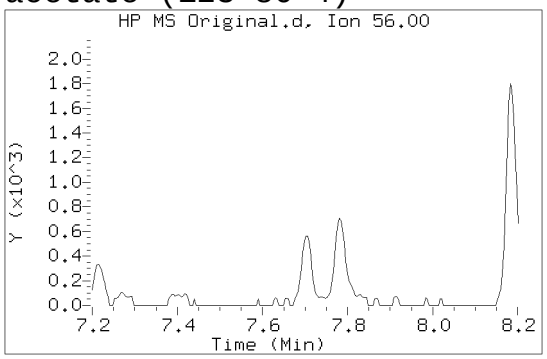
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Inj Date : 16-MAY-2024 12:40
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

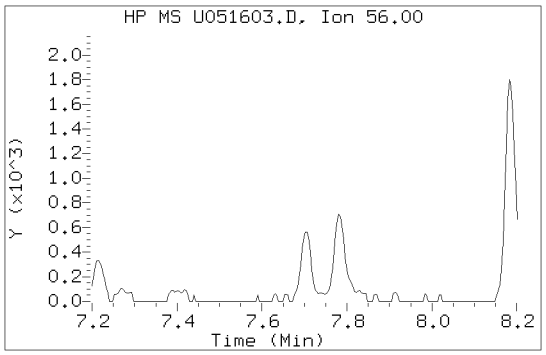
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



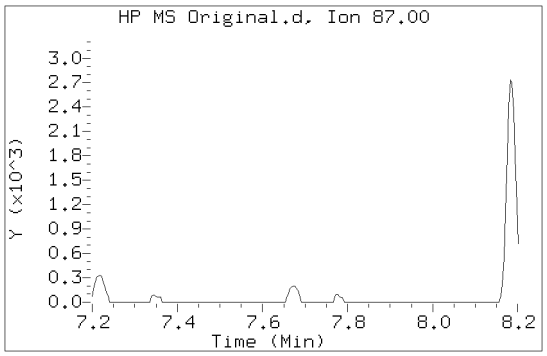
AFTER

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



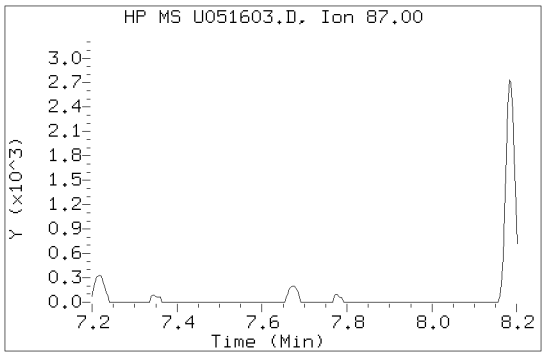
BEFORE

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

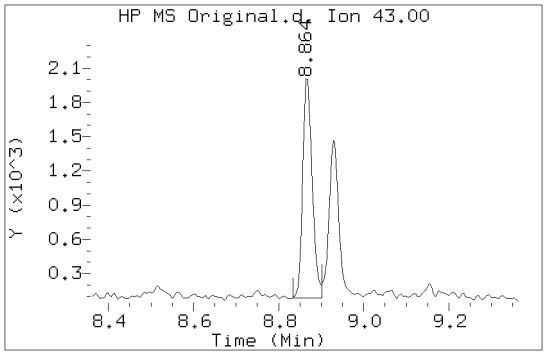


Methyl Amyl Ketone (110-43-0)

Reason Code:

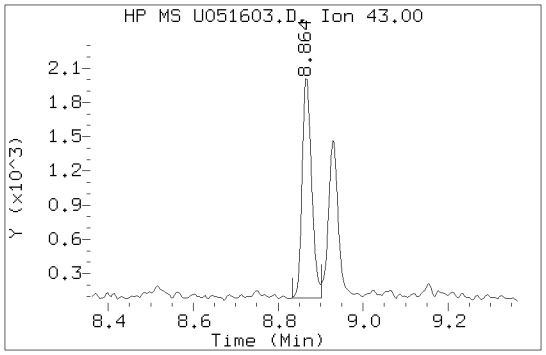
BEFORE

MASS
43
AREA
3007
HEIGHT
1923
07-Jun-2024
11:57
rucha
patel



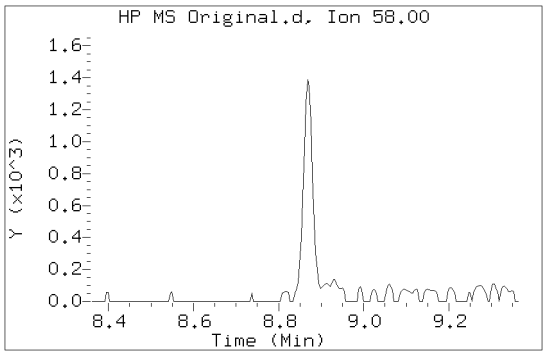
AFTER

MASS
43
AREA
3007
HEIGHT
1923
07-Jun-2024
11:57
rucha
patel



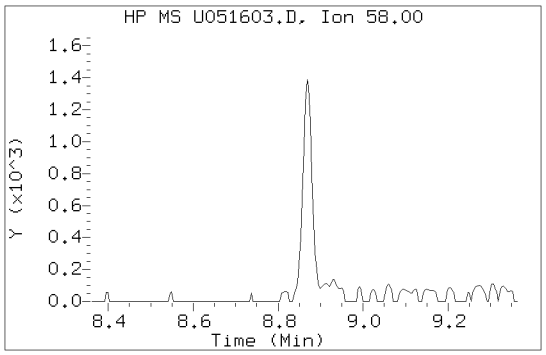
BEFORE

MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

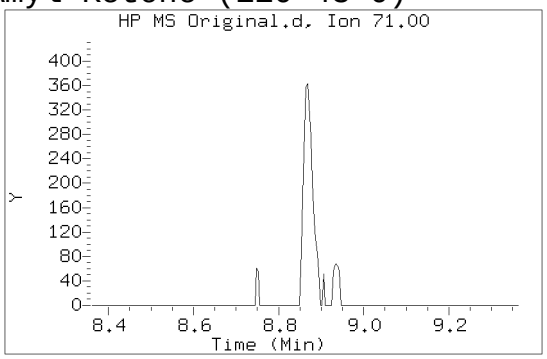


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InstruID : VOA9.i
LabSampID : VSTD00.5

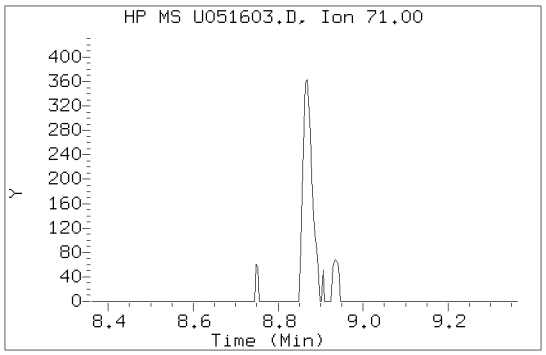
Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
71
AREA
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HEIGHT
0
07-Jun-2024
11:57
rucha
patel



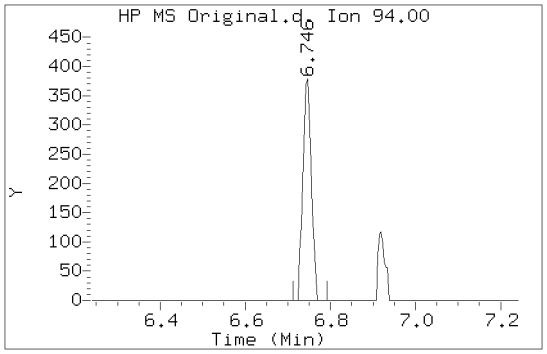
AFTER
MASS
71
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HEIGHT
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07-Jun-2024
11:57
rucha
patel



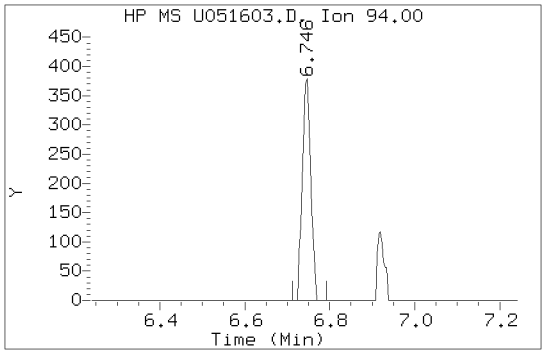
Dimethyl Disulfide (624-92-0)

Reason Code:

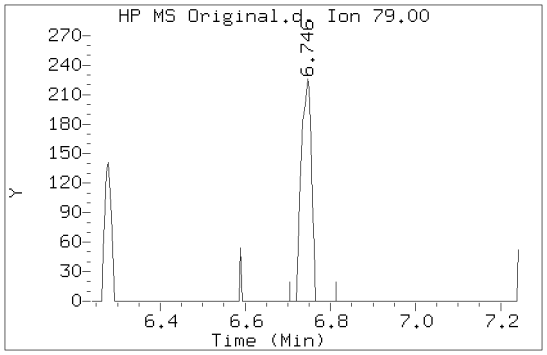
BEFORE
MASS
94
AREA
521
HEIGHT
379
07-Jun-2024
11:57
rucha
patel



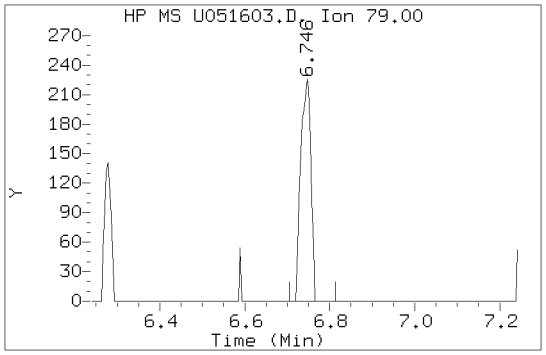
AFTER
MASS
94
AREA
521
HEIGHT
379
07-Jun-2024
11:57
rucha
patel



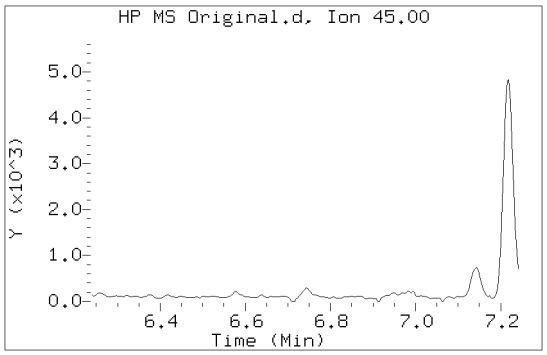
BEFORE
MASS
79
AREA
372
HEIGHT
226
07-Jun-2024
11:57
rucha
patel



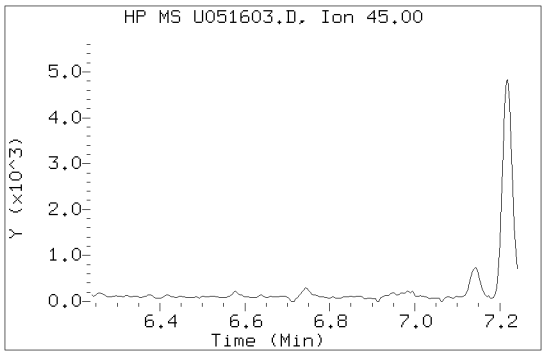
AFTER
MASS
79
AREA
372
HEIGHT
226
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
45
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
45
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

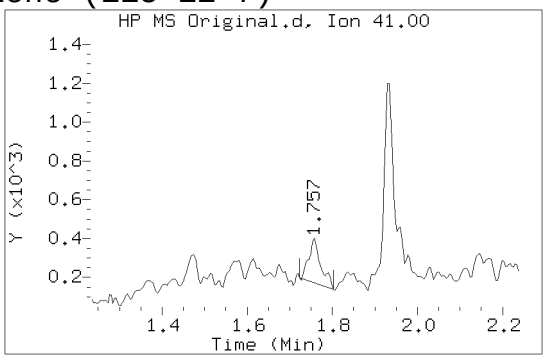


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LabSampID : VSTD00.5

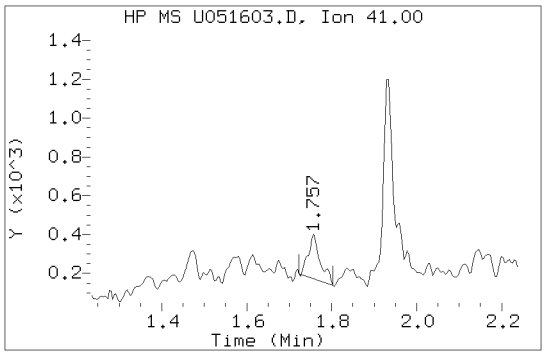
Isobutylene (115-11-7)

Reason Code:

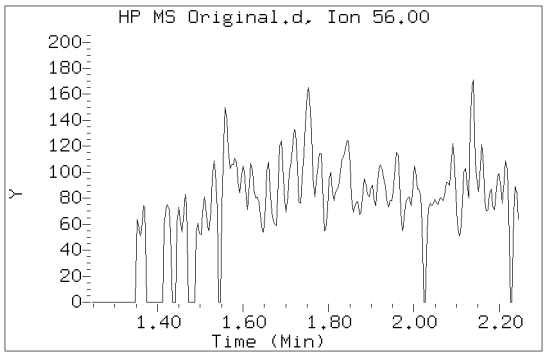
BEFORE
MASS
41
AREA
441
HEIGHT
231
07-Jun-2024
11:57
rucha
patel



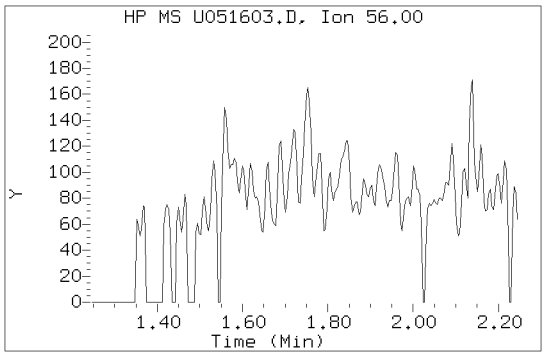
AFTER
MASS
41
AREA
441
HEIGHT
231
07-Jun-2024
11:57
rucha
patel



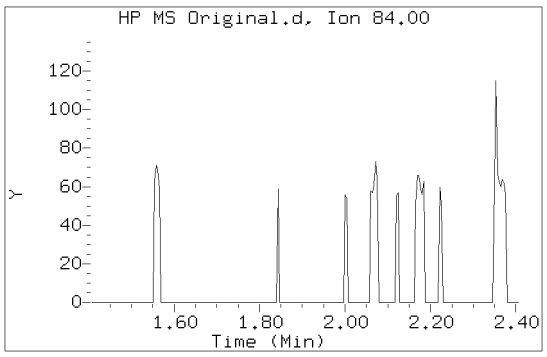
BEFORE
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56
AREA
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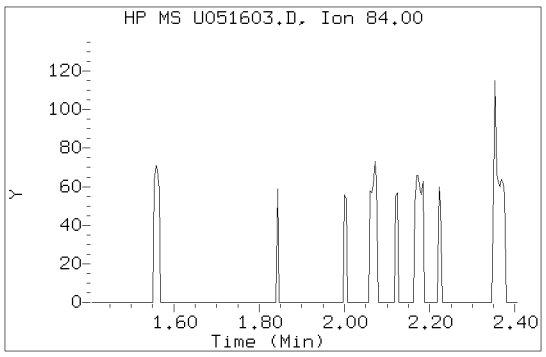
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BEFORE
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 16-MAY-2024 13:02
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\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.815	(1.000)	312068	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	814	1.00000	0.87(M)
3	Chloromethane	50	1.299	1.299	(0.270)	48305	1.00000	1.15(M)
4	Propionitrile	54	4.343	4.343	(0.902)	4341	10.0000	11.25(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	2016	1.00000	0.81(M)
6	Bromomethane	94	1.618	1.618	(0.336)	2928	1.00000	2.44
7	Chloroethane	64	1.696	1.696	(0.352)	1094	1.00000	1.50(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	1640	1.00000	0.91
9	Acrolein	56	2.270	2.270	(0.471)	317	2.00000	0.18(aM)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	1467	1.00000	0.83
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	8174	20.0000	20.72(aM)
13	Acetonitrile	39	2.671	2.671	(0.555)	2284	10.0000	8.98(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	6877	1.00000	1.08(a)
15	Iodomethane	142	2.468	2.468	(0.513)	1215	2.00000	2.84(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	2549	2.00000	1.70
17	Methylene Chloride	84	2.791	2.791	(0.580)	5338	1.00000	0.73
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	6802	1.00000	1.05
19	Carbon Disulfide	76	2.521	2.521	(0.524)	8501	2.00000	1.58
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	2301	1.00000	1.09
21	Vinyl Acetate	43	4.347	4.347	(0.903)	2466	2.00000	1.81(M)

22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3927	1.00000	1.01
23 Chloroprene	53	2.154	2.154 (0.447)	641	1.00000	0.97(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.272	4.272	(0.887)	2760	2.00000	1.97
25	Methacrylonitrile	41	4.500	4.500	(0.935)	1520	1.00000	0.97(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	2388	1.00000	0.80(M)
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2552	1.00000	1.01
28	Chloroform	83	4.571	4.571	(0.949)	3856	1.00000	0.98
29	Bromochloromethane	128	4.467	4.467	(0.928)	1211	1.00000	0.97
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	2522	1.00000	1.23
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	2166	1.00000	0.88
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	2298	1.00000	0.82
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	3091	1.00000	0.98(M)
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	1594	1.00000	1.37(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3471	1.00000	1.41
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	459075	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	9255	1.00000	0.99
38	Trichloroethene	130	5.786	5.786	(1.043)	1907	1.00000	0.84(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	2419	1.00000	0.89(aM)
40	Methyl Methacrylate	41	5.827	5.827	(1.210)	972	1.00000	1.04(aM)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	2563	2.00000	1.69(a)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	2644	1.00000	1.05(aM)
43	2-Nitropropane	43	6.577	6.577	(1.366)	1734	1.00000	0.97(aM)
44	Dibromomethane	93	6.120	6.120	(1.103)	1614	1.00000	1.08(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	5846	2.00000	1.98(a)
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	3239	1.00000	0.92(a)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	410142	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	10328	1.00000	1.32(a)
49	Ethyl Methacrylate	69	7.218	7.218	(1.301)	3240	1.00000	1.03(a)
50	Toluene	91	6.982	6.982	(0.853)	9667	1.00000	0.99(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	2558	1.00000	0.87(a)
52	2-Hexanone	43	7.593	7.593	(0.928)	3712	2.00000	1.83(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	1843	1.00000	0.99(a)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	4339	1.00000	1.05(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	1599	1.00000	2.09(a)
56	Tetrachloroethene	164	7.458	7.458	(0.912)	1203	1.00000	1.29(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	2130	1.00000	0.98(a)
58	1-Chlorohexane	55	8.181	8.181	(1.474)	5347	1.00000	0.71(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	6528	1.00000	1.02(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1877	1.00000	0.90(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	2909	1.00000	0.94(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	7079	2.00000	1.83(a)
63	o-Xylene	106	8.748	8.748	(1.069)	3917	1.00000	1.01(a)
64	Styrene	104	8.763	8.763	(1.071)	6338	1.00000	0.94(a)
66	Bromoform	173	8.916	8.916	(1.090)	1148	1.00000	1.34(aM)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	7833	1.00000	0.84(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	3361	1.00000	1.04(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	4754	1.00000	1.58(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	217949	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	3328	1.00000	0.96(aM)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	640	1.00000	0.82(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	8700	1.00000	0.82(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	2775	1.00000	1.04(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	7148	1.00000	0.90(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	7087	1.00000	1.03(a)

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	8039	1.00000	1.02(a)
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	5075	1.00000	0.80(a)

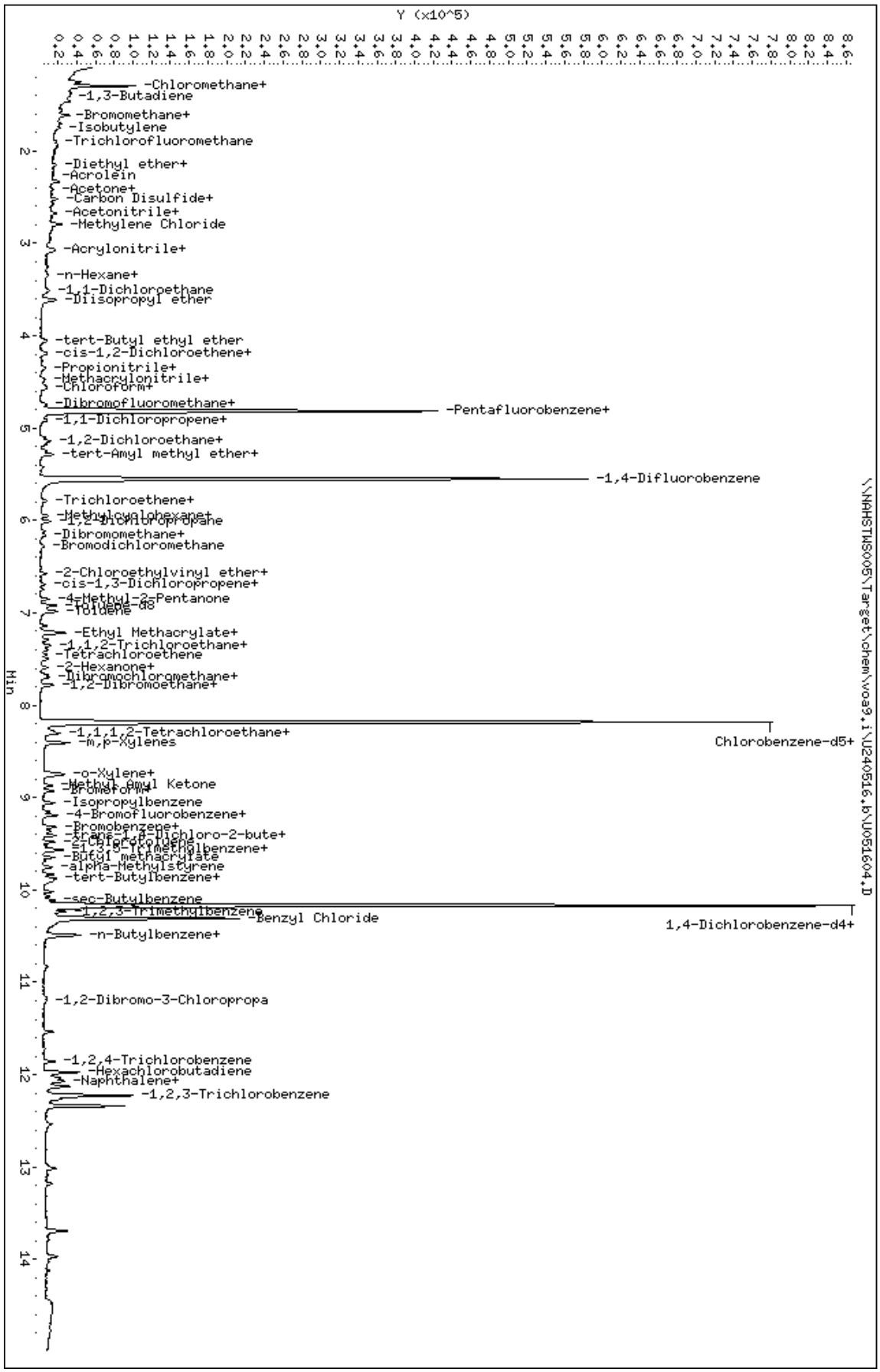
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Report Date: 07-Jun-2024 11:59

	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)	12524	1.00000	1.15(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	6772	1.00000	0.79(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	6652	1.00000	0.85(a)
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	5448	1.00000	1.06(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	5448	1.00000	1.06(a)
86	Benzyl Chloride	91	10.307	10.307	(1.260)	195284	1.00000	4.61(a)
87	n-Butylbenzene	91	10.487	10.487	(1.031)	17572	1.00000	0.77(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	4955	1.00000	1.04(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	491	1.00000	1.03(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	3225	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	933	1.00000	0.67(aM)
92	Naphthalene	128	12.065	12.065	(1.187)	8215	1.00000	1.02(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	3056	1.00000	1.06(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	3001	1.00000	1.26(a)
138	Freon TF	101	2.337	2.337	(0.485)	1891	1.00000	1.31(a)
141	Cyclohexane	56	4.811	4.811	(0.999)	6509	1.00000	0.69(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1255	2.00000	2.07(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	4871	1.00000	0.88(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	836	20.0000	21.07(M)
132	n-Butanol	56	5.831	5.831	(1.211)	1655	20.0000	23.19(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1461	1.00000	0.93(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	1855	1.00000	1.04(a)
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	4618	20.0000	22.62
149	Isopropyl alcohol	45	2.573	2.573	(0.534)	3463	20.0000	21.81(M)
152	Amyl alcohol	42	7.402	7.402	(0.905)	1371	20.0000	18.81
156	Diisopropyl ether	45	3.627	3.627	(0.753)	7523	1.00000	0.99(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	4910	1.00000	0.97(a)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	4651	1.00000	0.97(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	12758	1.00000	0.65(aM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	8227	1.00000	1.10(a)
167	Ethanol	45	2.090	2.090	(0.434)	762	20.0000	15.82(T)
172	tert-Butyl formate	59	5.243	5.243	(1.089)	4799	2.00000	2.09(aM)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	5536	20.0000	19.66(M)
174	tert-Amyl methyl ether	73	5.287	5.287	(1.098)	7419	1.00000	1.00(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	7384	1.00000	1.03(a)
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	4799	20.0000	21.33
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	16101	20.0000	19.83
140	1,3-Butadiene	54	1.404	1.404	(0.292)	490	1.00000	0.56(aM)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	895	4.00000	4.42(aM)
M 94	1,2-Dichloroethylene (total)	96				4853	2.00000	(a)
130	Ethyl Acetate	43	4.347	4.347	(0.903)	2467	1.00000	0.91(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	3671	1.00000	1.17(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	4335	1.00000	0.96(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	3251	20.0000	23.97(a)
185	Isoprene	39	2.157	2.157	(0.448)	671	1.00000	1.24(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	7649	1.00000	1.01(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1461	20.0000	18.73
195	Methyl Amyl Ketone	43	8.867	8.867	(1.084)	5788	1.00000	0.98(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	1296	1.00000	3.26(a)
202	Isobutylene	41	1.749	1.749	(0.363)	644	1.00000	1.06(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	5131	1.00000	0.92(aM)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	2713	1.00000	0.90(a)

159 Propylene oxide	43	2.206	2.206 (0.458)	1392	2.00000	3.86(a)
203 2-Ethylhexyl Acrylate	55	12.039	12.039 (1.184)	4851	1.00000	1.28(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)
-Chloromethane+
-1,3-Butadiene
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane
-Diethyl ether+
-Acrolein
-Acetone+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Acrylonitrile+
-n-Hexane+
-1,1-Dichlorpethane
-Diisopropyl ether
-tert-Butyl ethyl ether
-cis-1,2-Dichloroethene+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-tert-Amyl methyl ether+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-Bromobenzene+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,2,3-Trimethylbenzene
Benzyl Chloride
1,4-Dichlorobenzene-d4+
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-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
Min
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Instrument: VOA9,i
Operator: FT
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Page 1

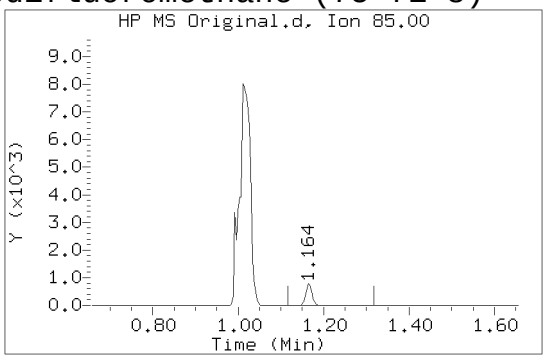
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

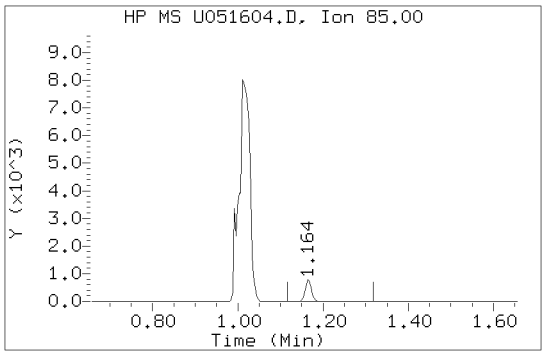
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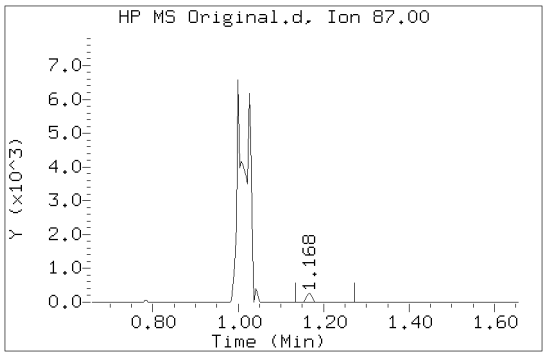
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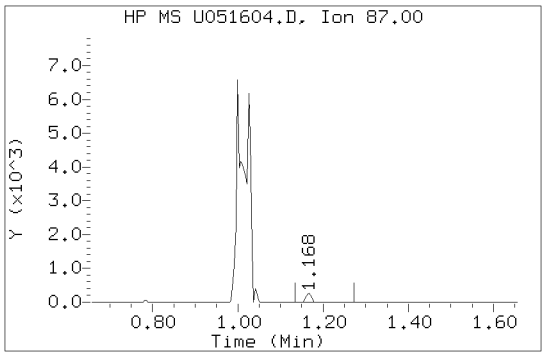
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AFTER

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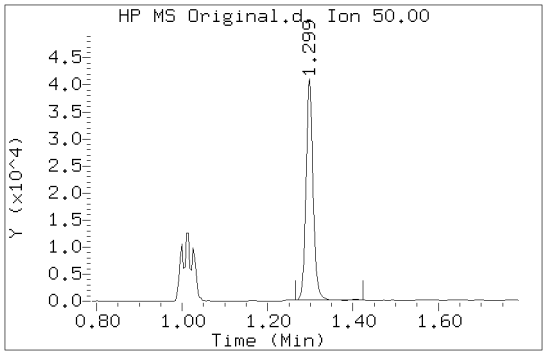


Chloromethane (74-87-3)

Reason Code:

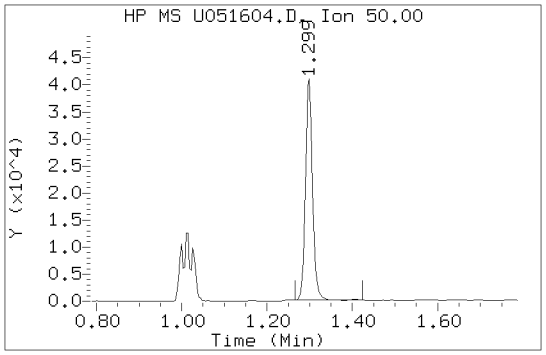
BEFORE

MASS
50
AREA
48305
HEIGHT
40880
07-Jun-2024
11:57
rucha
patel



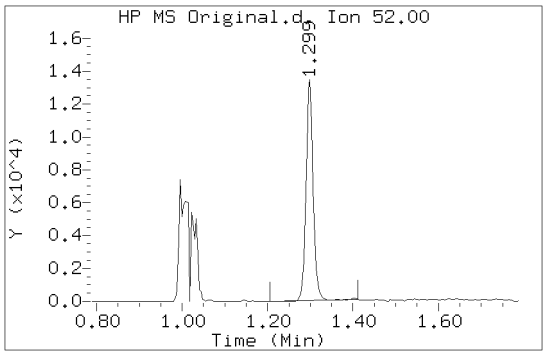
AFTER

MASS
50
AREA
48305
HEIGHT
40880
07-Jun-2024
11:57
rucha
patel



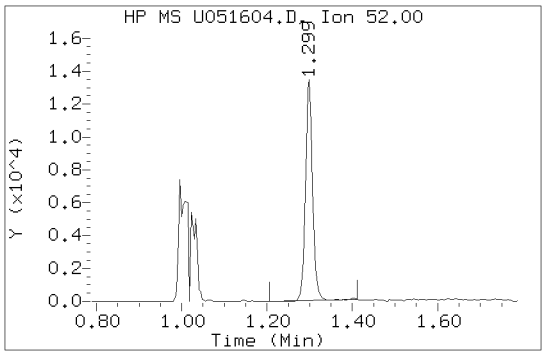
BEFORE

MASS
52
AREA
15884
HEIGHT
13434
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
52
AREA
15884
HEIGHT
13434
07-Jun-2024
11:57
rucha
patel



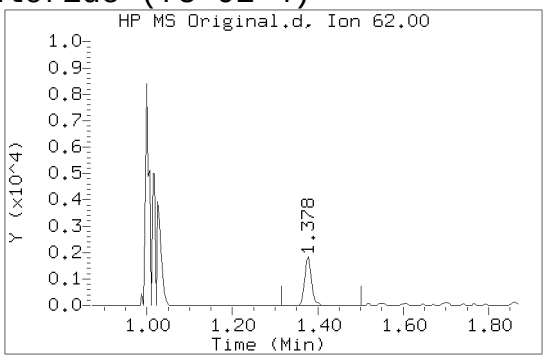
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Chloride (75-01-4)

Reason Code:

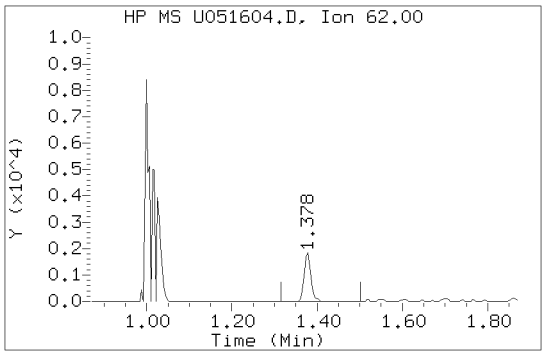
BEFORE

MASS
62
AREA
2016
HEIGHT
1850
07-Jun-2024
11:57
rucha
patel



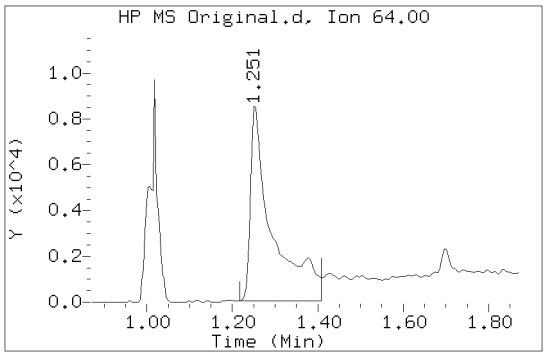
AFTER

MASS
62
AREA
2016
HEIGHT
1850
07-Jun-2024
11:57
rucha
patel



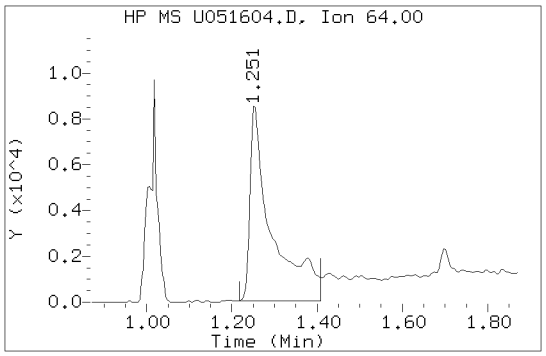
BEFORE

MASS
64
AREA
30335
HEIGHT
8513
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
64
AREA
30335
HEIGHT
8513
07-Jun-2024
11:57
rucha
patel

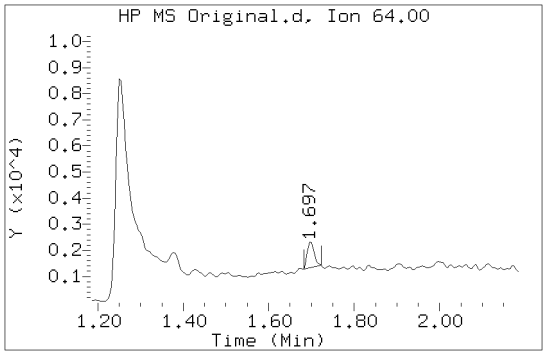


Chloroethane (75-00-3)

Reason Code:

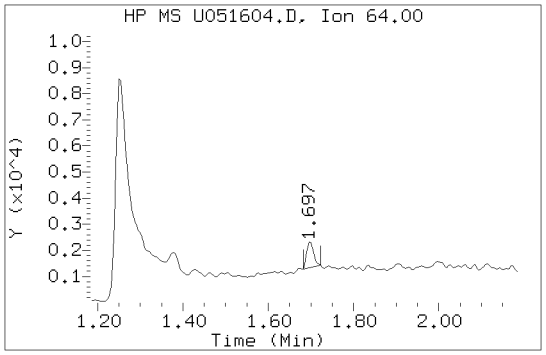
BEFORE

MASS
64
AREA
1094
HEIGHT
978
07-Jun-2024
11:57
rucha
patel



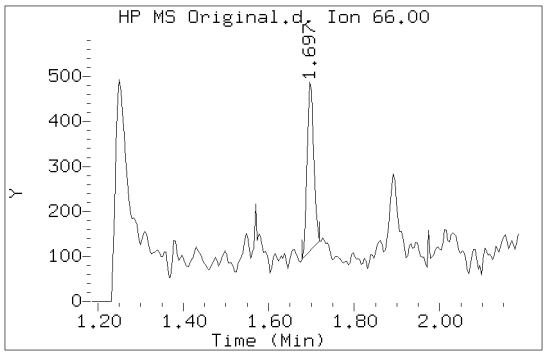
AFTER

MASS
64
AREA
1094
HEIGHT
978
07-Jun-2024
11:57
rucha
patel



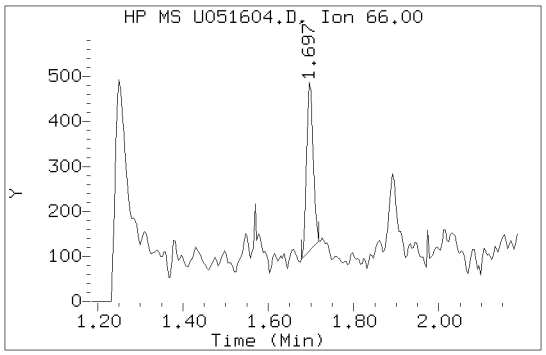
BEFORE

MASS
66
AREA
402
HEIGHT
375
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
66
AREA
402
HEIGHT
375
07-Jun-2024
11:57
rucha
patel



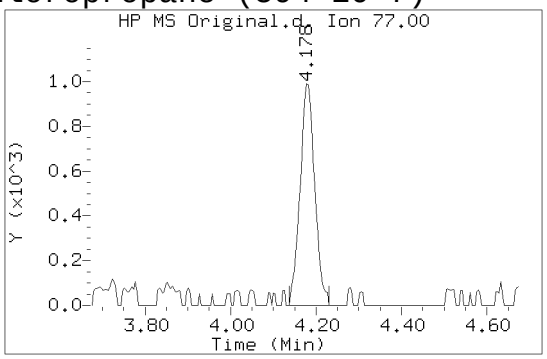
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

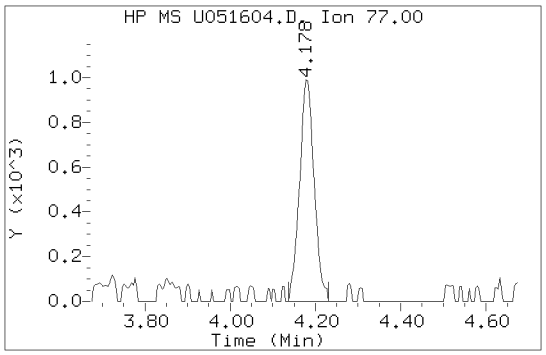
BEFORE

MASS
77
AREA
2388
HEIGHT
991
07-Jun-2024
11:57
rucha
patel



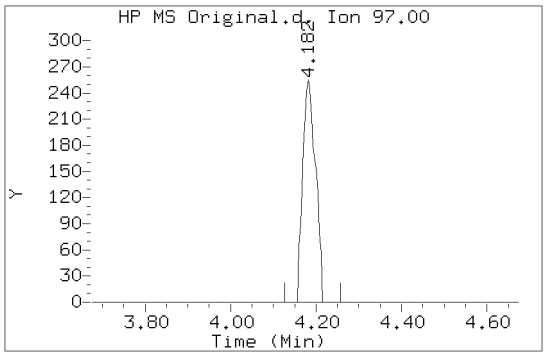
AFTER

MASS
77
AREA
2388
HEIGHT
991
07-Jun-2024
11:57
rucha
patel



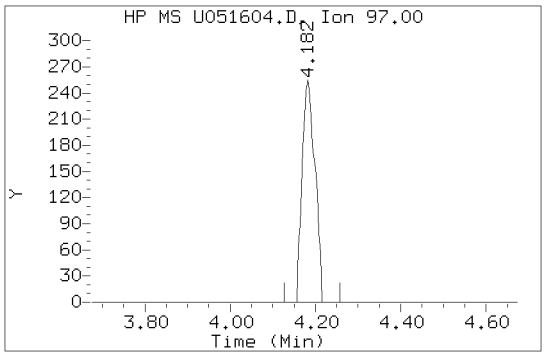
BEFORE

MASS
97
AREA
536
HEIGHT
255
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
97
AREA
536
HEIGHT
255
07-Jun-2024
11:57
rucha
patel

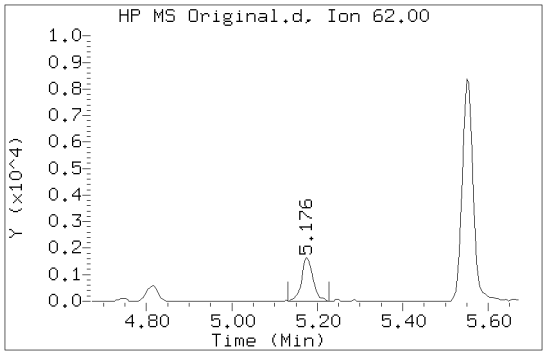


1,2-Dichloroethane (107-06-2)

Reason Code:

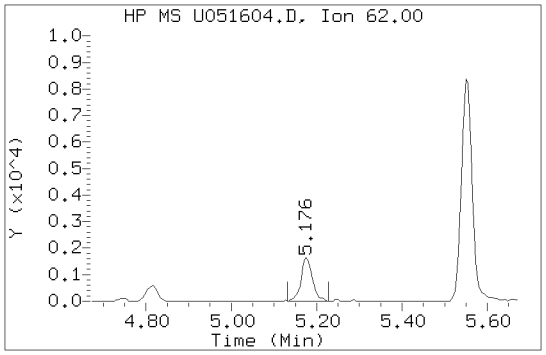
BEFORE

MASS
62
AREA
3091
HEIGHT
1650
07-Jun-2024
11:57
rucha
patel



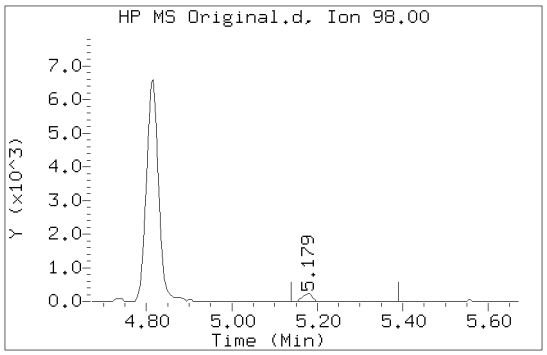
AFTER

MASS
62
AREA
3091
HEIGHT
1650
07-Jun-2024
11:57
rucha
patel



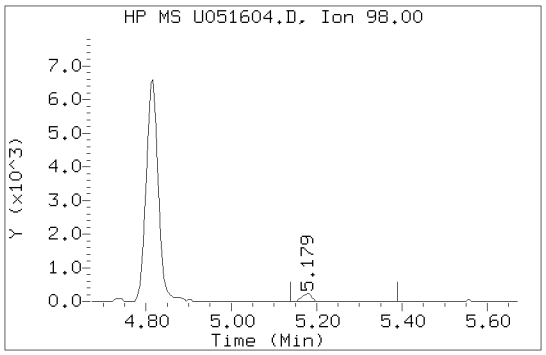
BEFORE

MASS
98
AREA
361
HEIGHT
226
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
98
AREA
361
HEIGHT
226
07-Jun-2024
11:57
rucha
patel

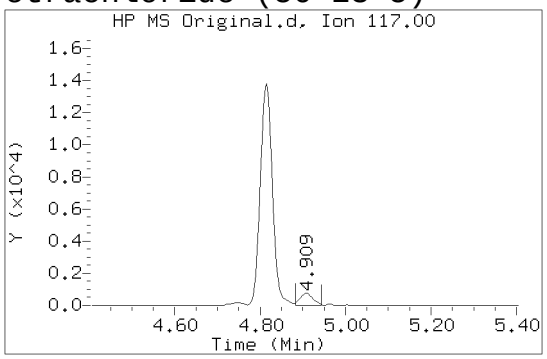


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

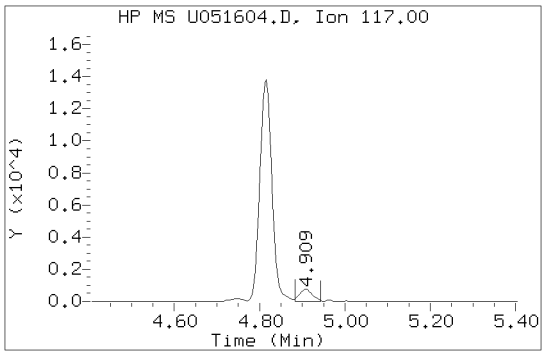
Carbon Tetrachloride (56-23-5)

Reason Code:

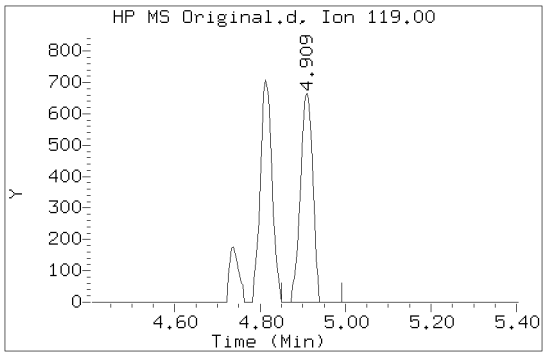
BEFORE
MASS
117
AREA
1594
HEIGHT
753
07-Jun-2024
11:57
rucha
patel



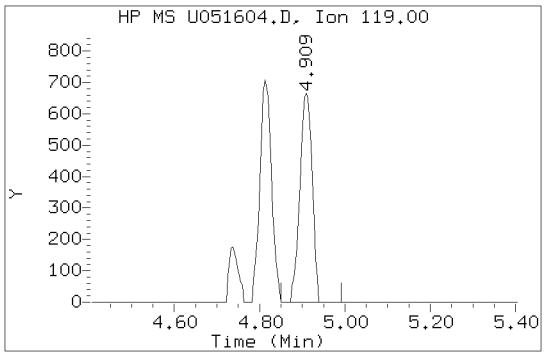
AFTER
MASS
117
AREA
1594
HEIGHT
753
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
119
AREA
1365
HEIGHT
665
07-Jun-2024
11:57
rucha
patel



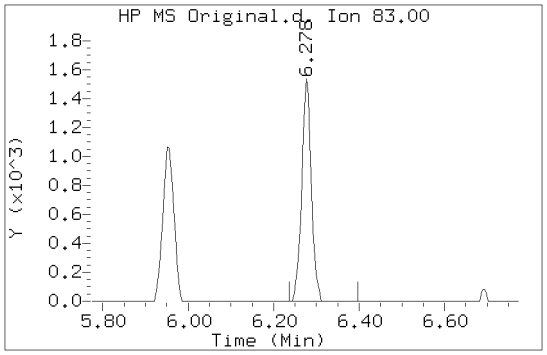
AFTER
MASS
119
AREA
1365
HEIGHT
665
07-Jun-2024
11:57
rucha
patel



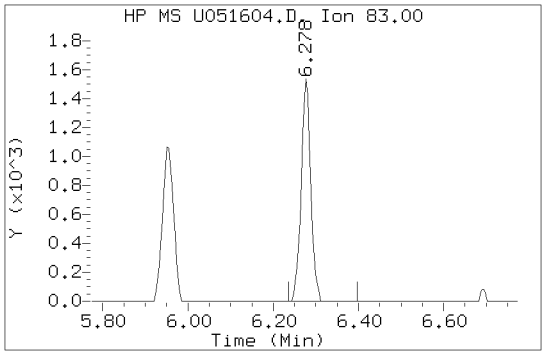
Bromodichloromethane (75-27-4)

Reason Code:

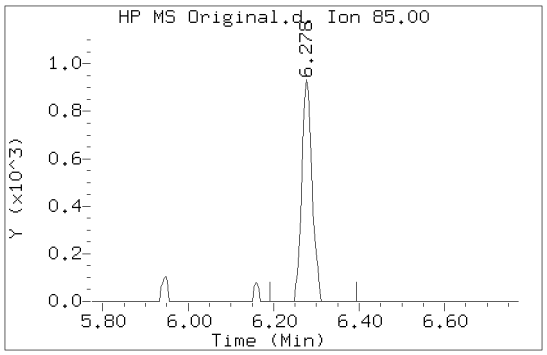
BEFORE
MASS
83
AREA
2419
HEIGHT
1537
07-Jun-2024
11:57
rucha
patel



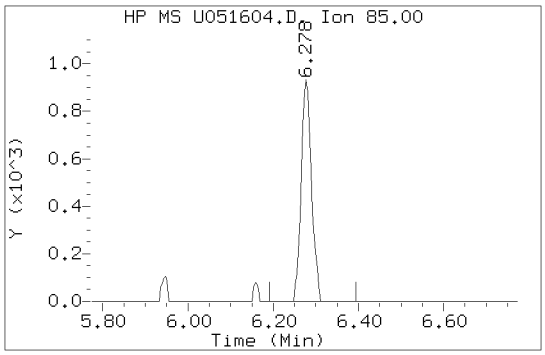
AFTER
MASS
83
AREA
2419
HEIGHT
1537
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
85
AREA
1593
HEIGHT
933
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
85
AREA
1593
HEIGHT
933
07-Jun-2024
11:57
rucha
patel



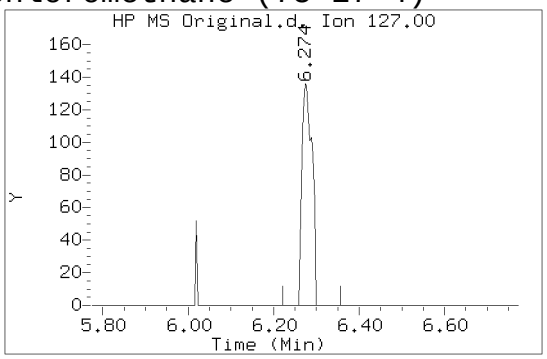
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

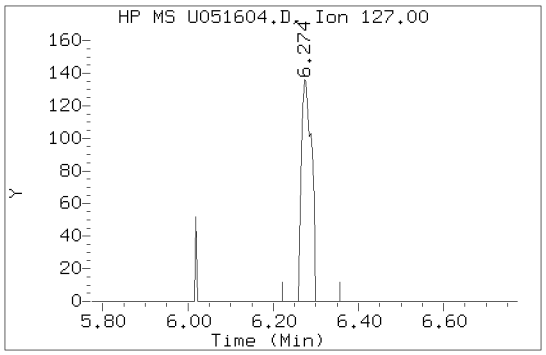
BEFORE

MASS
127
AREA
227
HEIGHT
136
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
127
AREA
227
HEIGHT
136
07-Jun-2024
11:57
rucha
patel

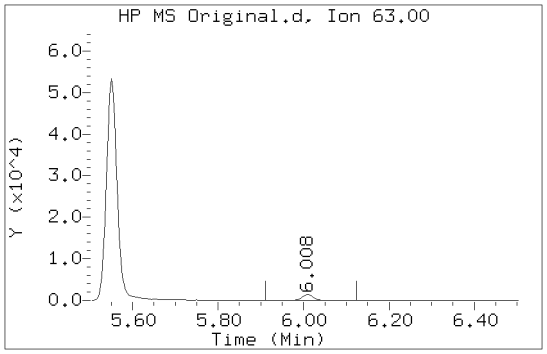


1,2-Dichloropropane (78-87-5)

Reason Code:

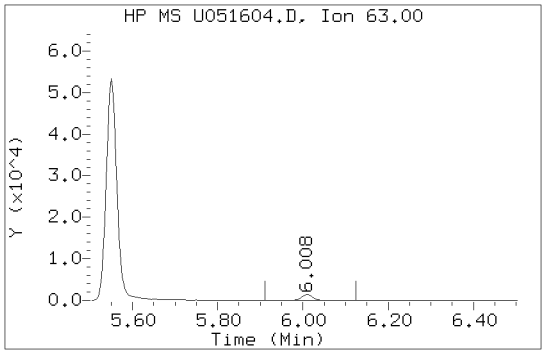
BEFORE

MASS
63
AREA
2644
HEIGHT
1380
07-Jun-2024
11:57
rucha
patel



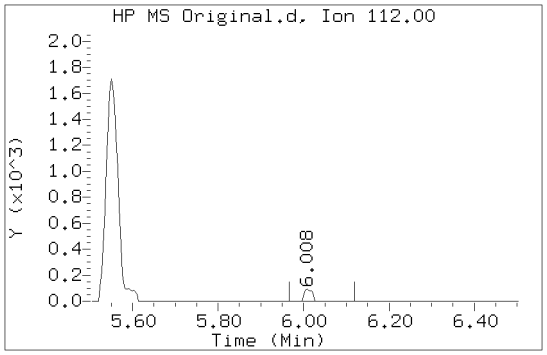
AFTER

MASS
63
AREA
2644
HEIGHT
1380
07-Jun-2024
11:57
rucha
patel



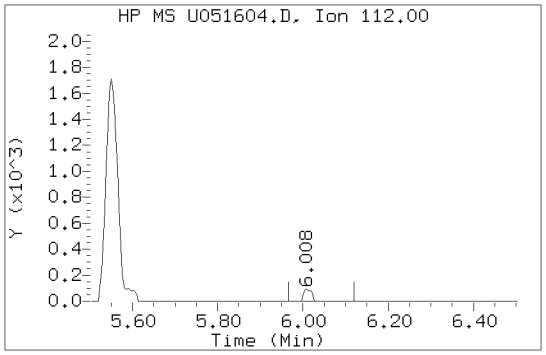
BEFORE

MASS
112
AREA
120
HEIGHT
95
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
112
AREA
120
HEIGHT
95
07-Jun-2024
11:57
rucha
patel

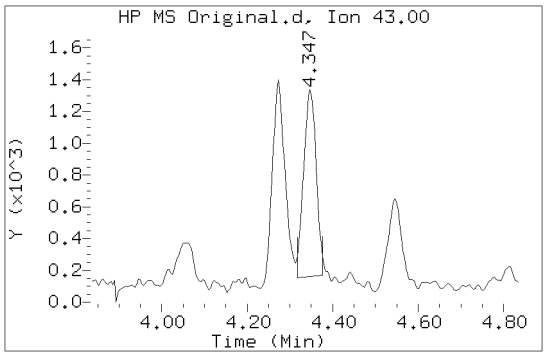


Vinyl Acetate (108-05-4)

Reason Code:

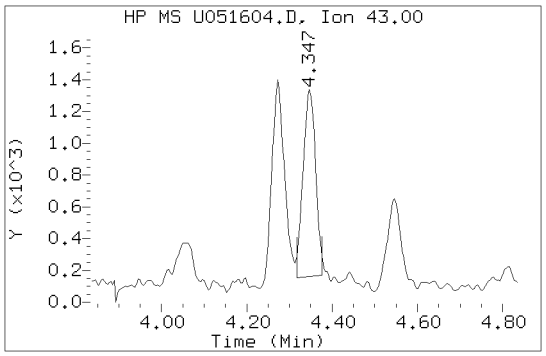
BEFORE

MASS
43
AREA
2466
HEIGHT
1177
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
2466
HEIGHT
1177
07-Jun-2024
11:57
rucha
patel



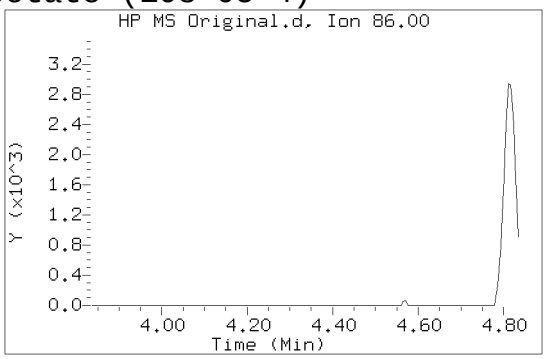
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

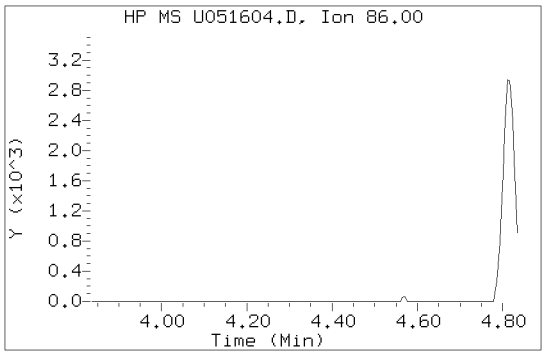
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

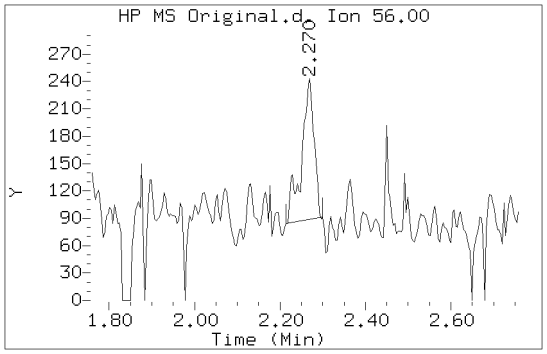


Acrolein (107-02-8)

Reason Code:

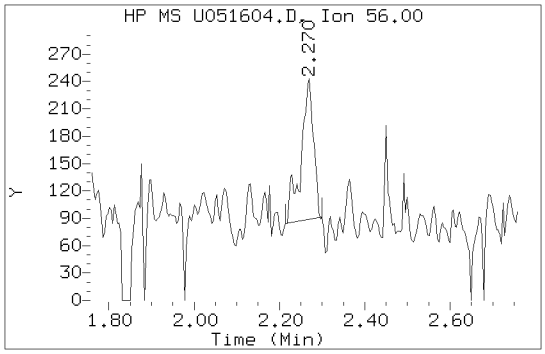
BEFORE

MASS
56
AREA
317
HEIGHT
154
07-Jun-2024
11:57
rucha
patel



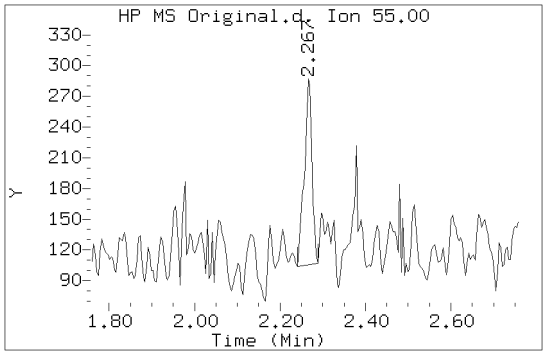
AFTER

MASS
56
AREA
317
HEIGHT
154
07-Jun-2024
11:57
rucha
patel



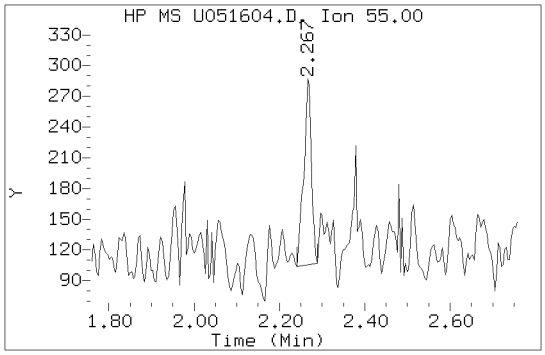
BEFORE

MASS
55
AREA
228
HEIGHT
181
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
55
AREA
228
HEIGHT
181
07-Jun-2024
11:57
rucha
patel

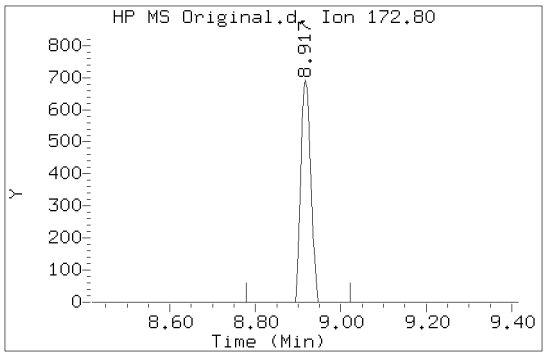


Bromoform (75-25-2)

Reason Code:

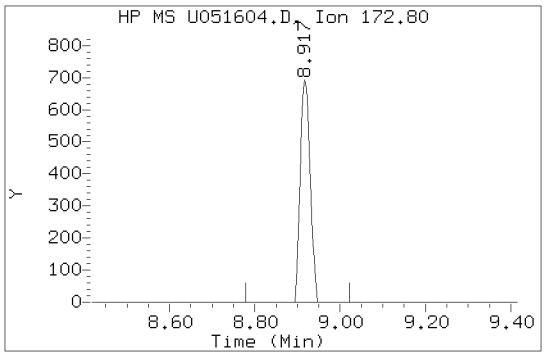
BEFORE

MASS
172.8
AREA
1148
HEIGHT
693
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
172.8
AREA
1148
HEIGHT
693
07-Jun-2024
11:57
rucha
patel



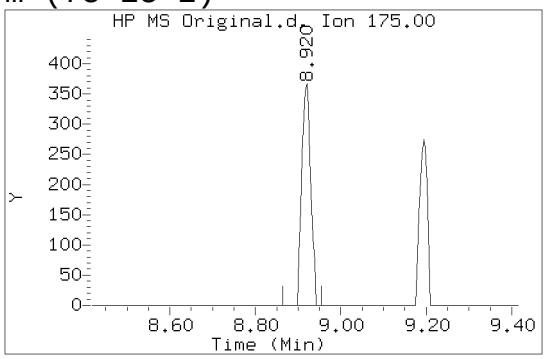
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

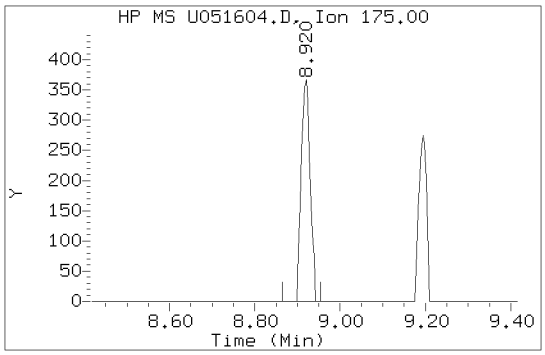
BEFORE

MASS
175
AREA
549
HEIGHT
367
07-Jun-2024
11:57
rucha
patel



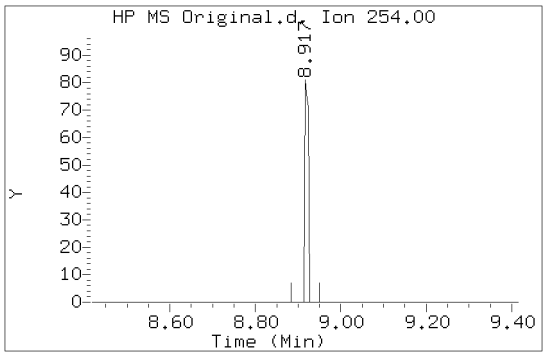
AFTER

MASS
175
AREA
549
HEIGHT
367
07-Jun-2024
11:57
rucha
patel



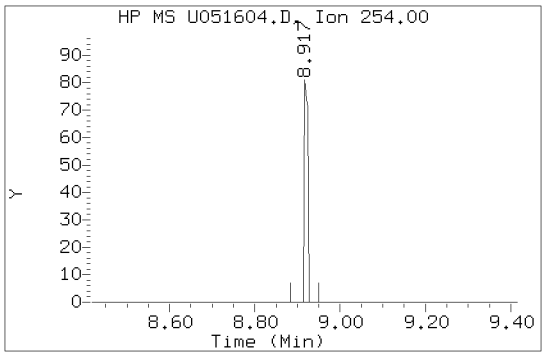
BEFORE

MASS
254
AREA
50
HEIGHT
81
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
254
AREA
50
HEIGHT
81
07-Jun-2024
11:57
rucha
patel

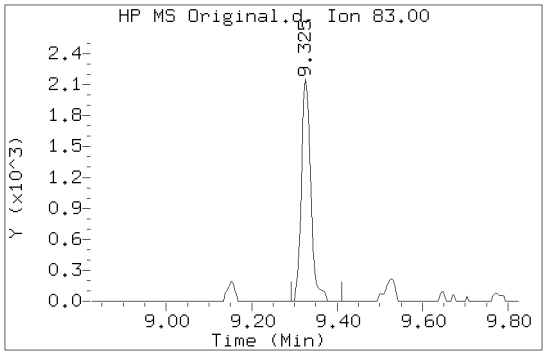


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

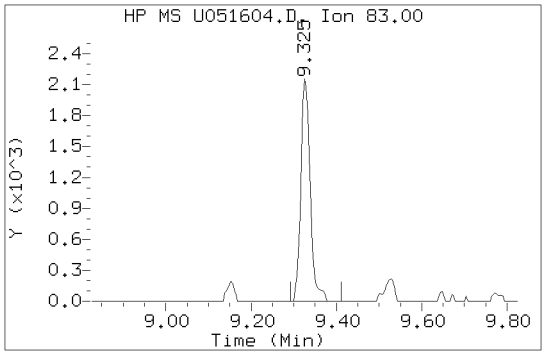
BEFORE

MASS
83
AREA
3361
HEIGHT
2156
07-Jun-2024
11:57
rucha
patel



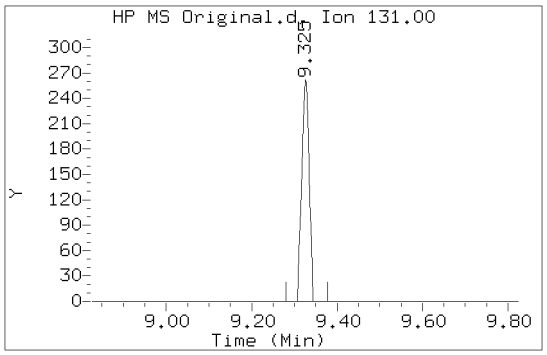
AFTER

MASS
83
AREA
3361
HEIGHT
2156
07-Jun-2024
11:57
rucha
patel



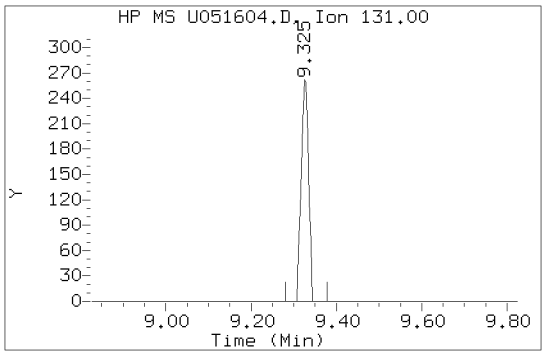
BEFORE

MASS
131
AREA
323
HEIGHT
262
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
131
AREA
323
HEIGHT
262
07-Jun-2024
11:57
rucha
patel



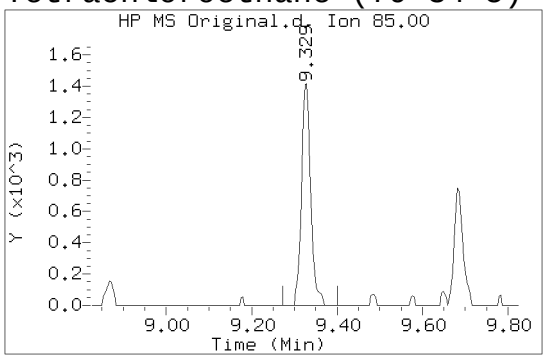
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

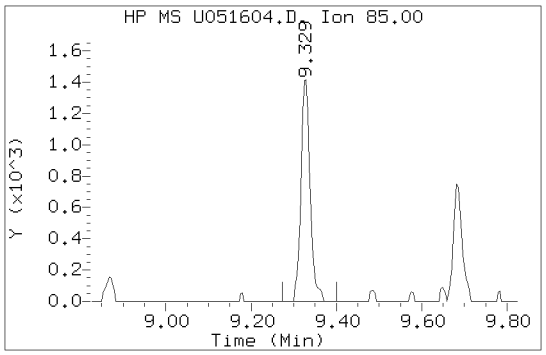
BEFORE

MASS
85
AREA
2163
HEIGHT
1416
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
85
AREA
2163
HEIGHT
1416
07-Jun-2024
11:57
rucha
patel

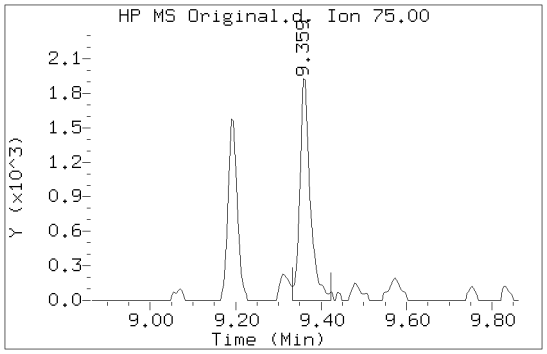


1,2,3-Trichloropropane (96-18-4)

Reason Code:

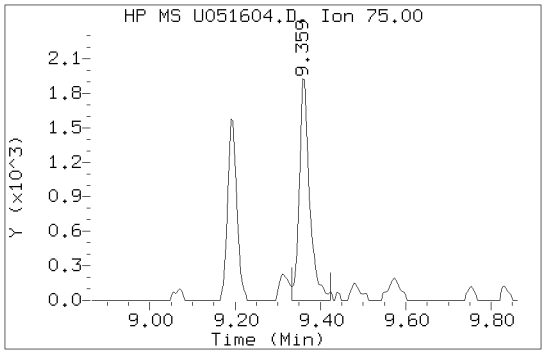
BEFORE

MASS
75
AREA
3328
HEIGHT
1925
07-Jun-2024
11:57
rucha
patel



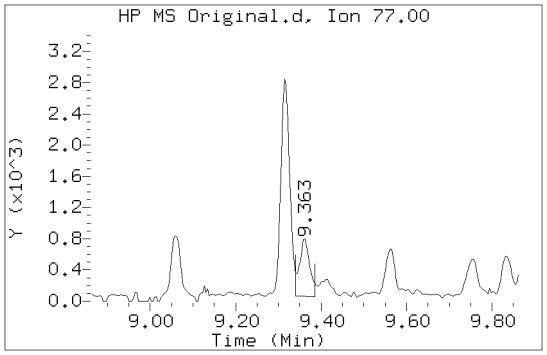
AFTER

MASS
75
AREA
3328
HEIGHT
1925
07-Jun-2024
11:57
rucha
patel



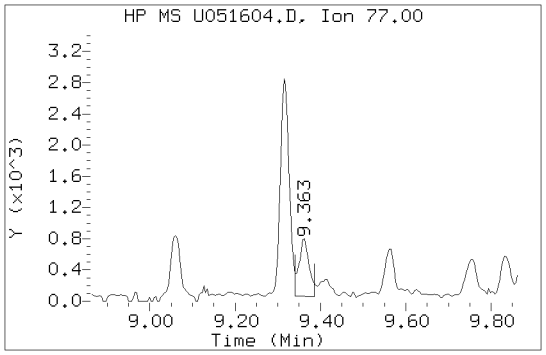
BEFORE

MASS
77
AREA
1278
HEIGHT
733
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
77
AREA
1278
HEIGHT
733
07-Jun-2024
11:57
rucha
patel

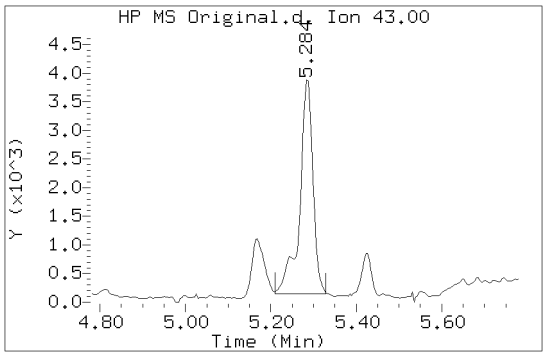


Isobutyl Alcohol (78-83-1)

Reason Code:

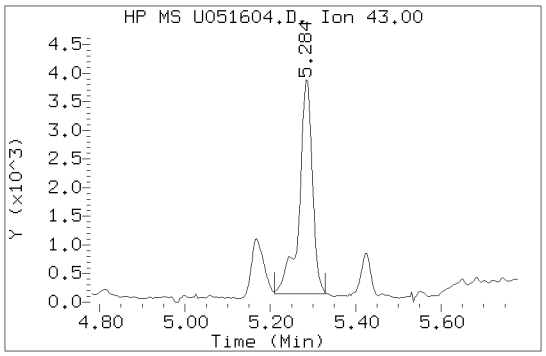
BEFORE

MASS
43
AREA
8174
HEIGHT
3736
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
8174
HEIGHT
3736
07-Jun-2024
11:57
rucha
patel



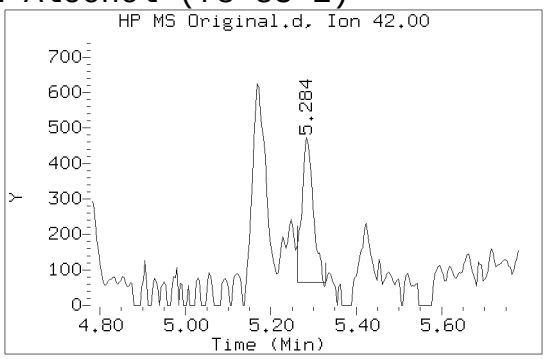
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

Reason Code:

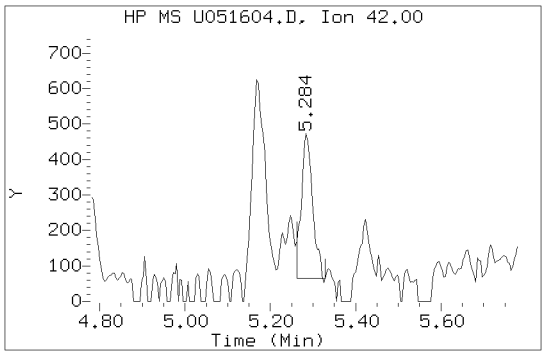
BEFORE

MASS
42
AREA
765
HEIGHT
409
07-Jun-2024
11:57
rucha
patel



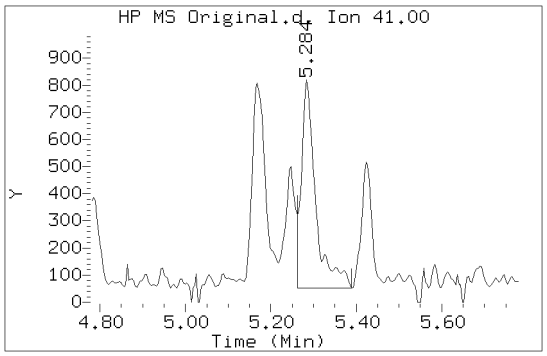
AFTER

MASS
42
AREA
765
HEIGHT
409
07-Jun-2024
11:57
rucha
patel



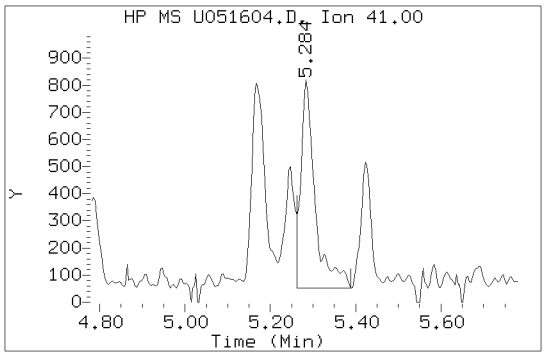
BEFORE

MASS
41
AREA
1828
HEIGHT
767
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
41
AREA
1828
HEIGHT
767
07-Jun-2024
11:57
rucha
patel

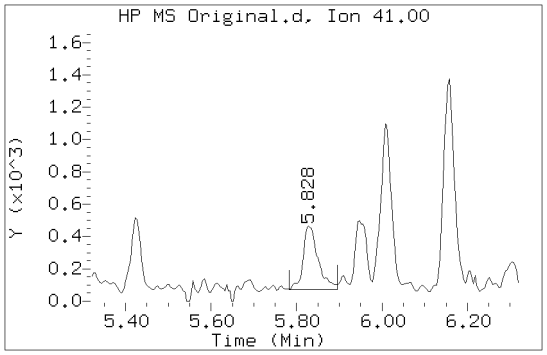


Methyl Methacrylate (80-62-6)

Reason Code:

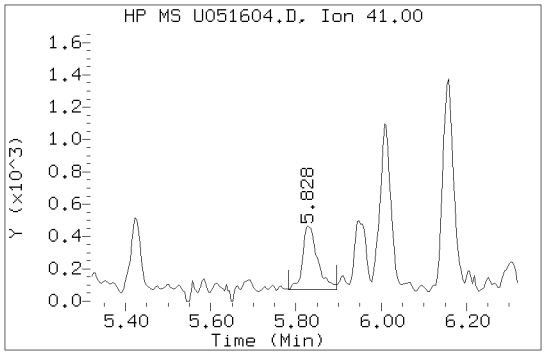
BEFORE

MASS
41
AREA
972
HEIGHT
391
07-Jun-2024
11:57
rucha
patel



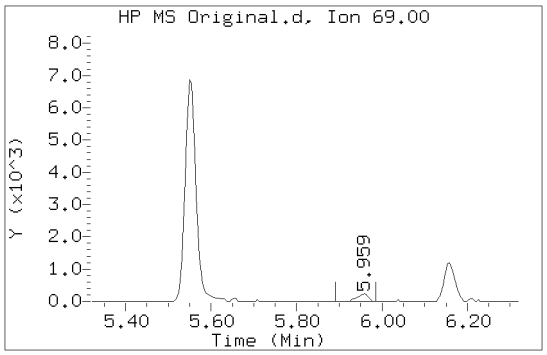
AFTER

MASS
41
AREA
972
HEIGHT
391
07-Jun-2024
11:57
rucha
patel



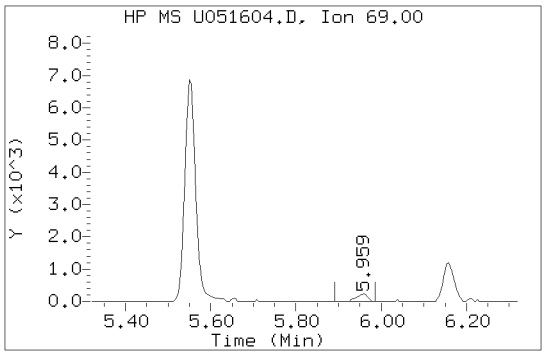
BEFORE

MASS
69
AREA
413
HEIGHT
238
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
69
AREA
413
HEIGHT
238
07-Jun-2024
11:57
rucha
patel



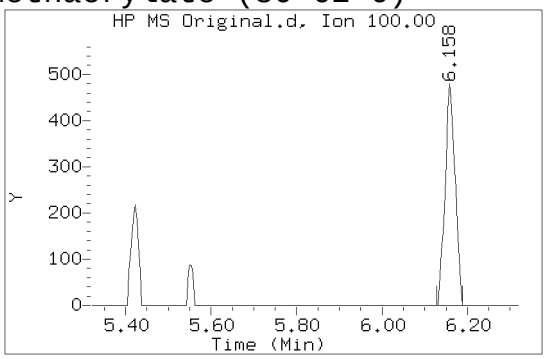
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

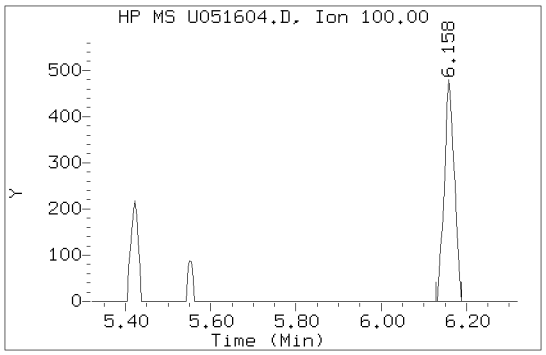
BEFORE

MASS
100
AREA
781
HEIGHT
480
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
100
AREA
781
HEIGHT
480
07-Jun-2024
11:57
rucha
patel

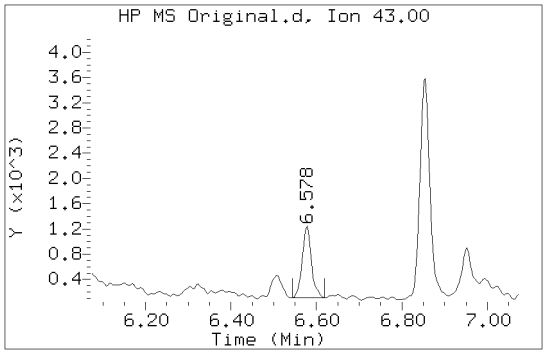


2-Nitropropane (79-46-9)

Reason Code:

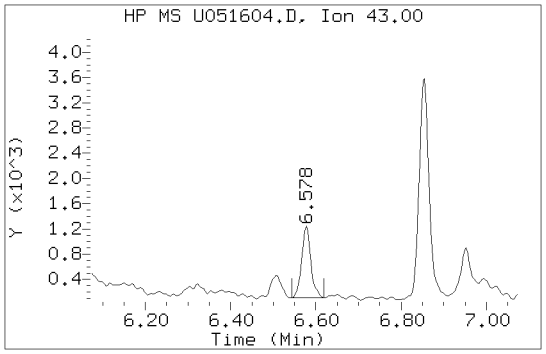
BEFORE

MASS
43
AREA
1734
HEIGHT
1134
07-Jun-2024
11:57
rucha
patel



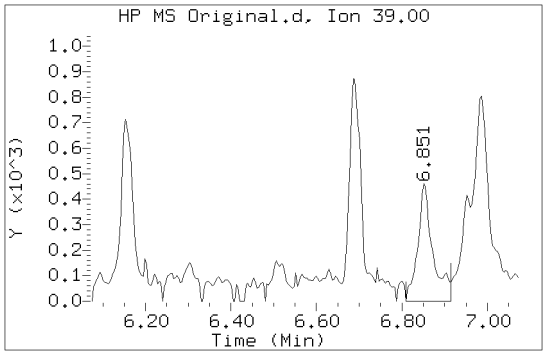
AFTER

MASS
43
AREA
1734
HEIGHT
1134
07-Jun-2024
11:57
rucha
patel



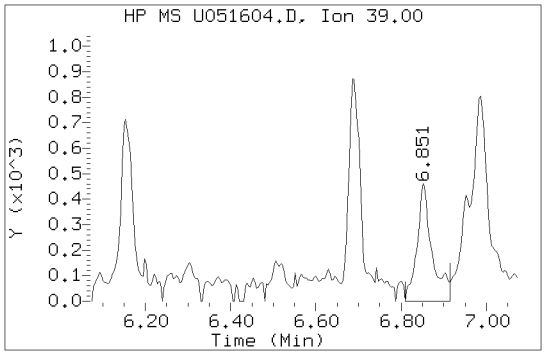
BEFORE

MASS
39
AREA
1134
HEIGHT
461
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
39
AREA
1134
HEIGHT
461
07-Jun-2024
11:57
rucha
patel

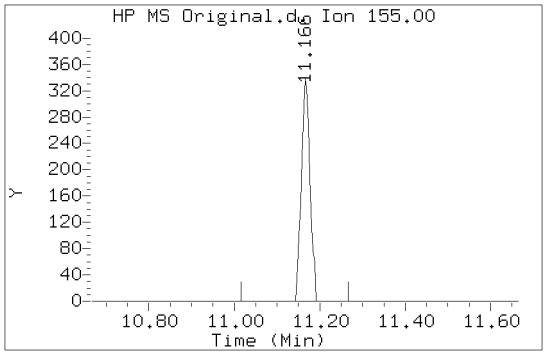


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

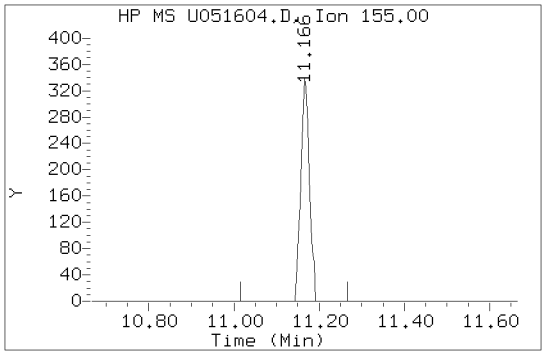
BEFORE

MASS
155
AREA
491
HEIGHT
338
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
155
AREA
491
HEIGHT
338
07-Jun-2024
11:57
rucha
patel



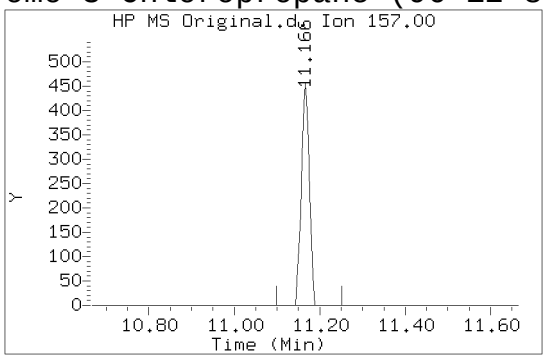
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

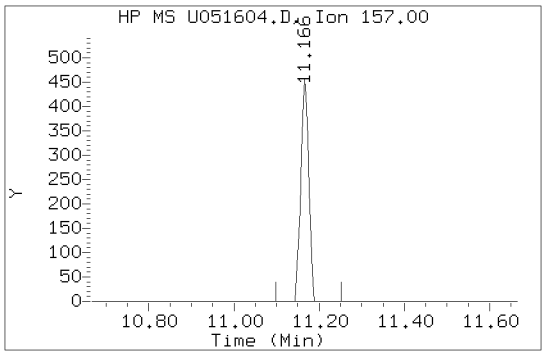
BEFORE

MASS
157
AREA
613
HEIGHT
455
07-Jun-2024
11:57
rucha
patel



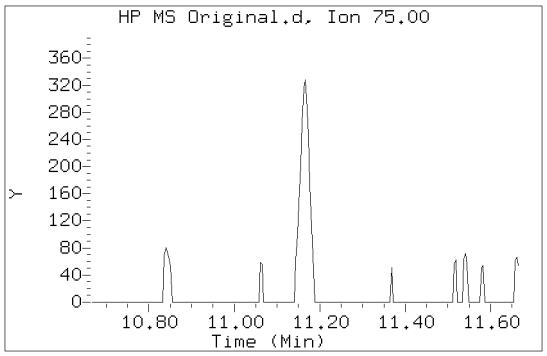
AFTER

MASS
157
AREA
613
HEIGHT
455
07-Jun-2024
11:57
rucha
patel



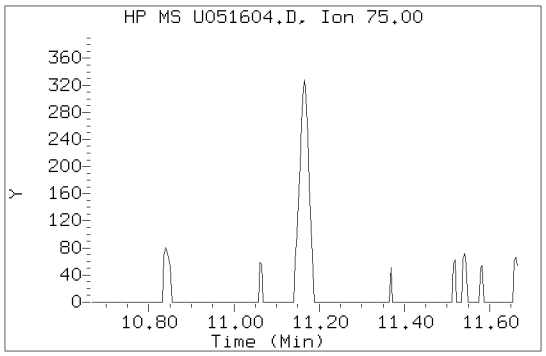
BEFORE

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
75
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

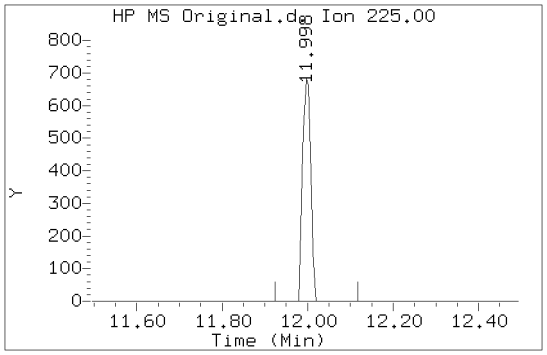


Hexachlorobutadiene (87-68-3)

Reason Code:

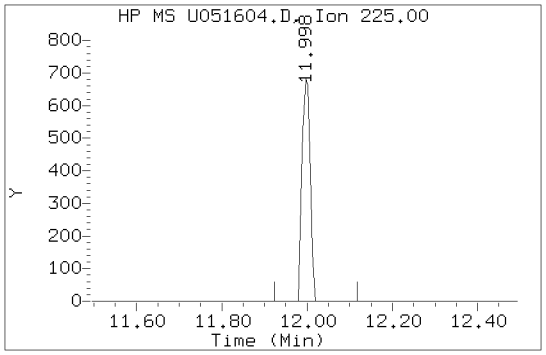
BEFORE

MASS
225
AREA
933
HEIGHT
682
07-Jun-2024
11:57
rucha
patel



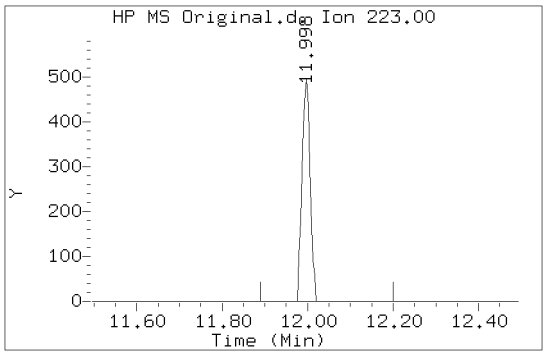
AFTER

MASS
225
AREA
933
HEIGHT
682
07-Jun-2024
11:57
rucha
patel



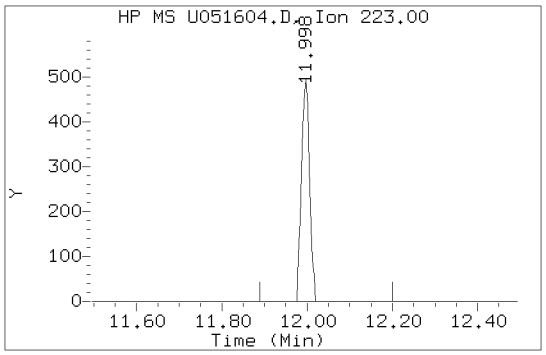
BEFORE

MASS
223
AREA
668
HEIGHT
494
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
223
AREA
668
HEIGHT
494
07-Jun-2024
11:57
rucha
patel



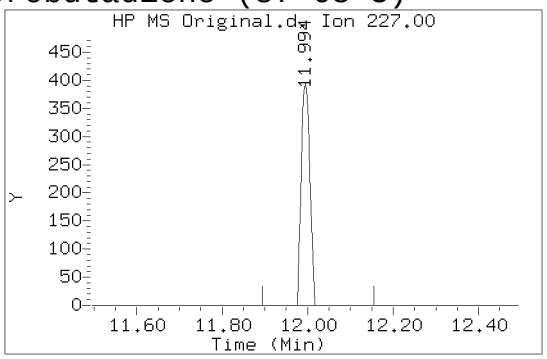
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

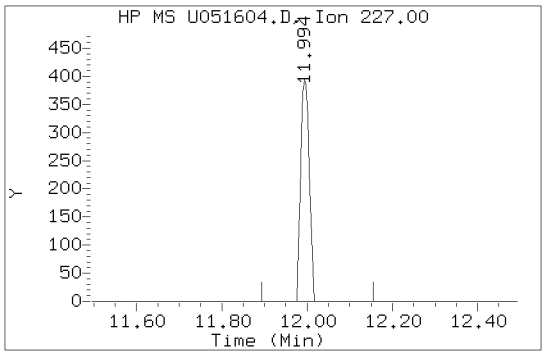
BEFORE

MASS
227
AREA
568
HEIGHT
394
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
227
AREA
568
HEIGHT
394
07-Jun-2024
11:57
rucha
patel

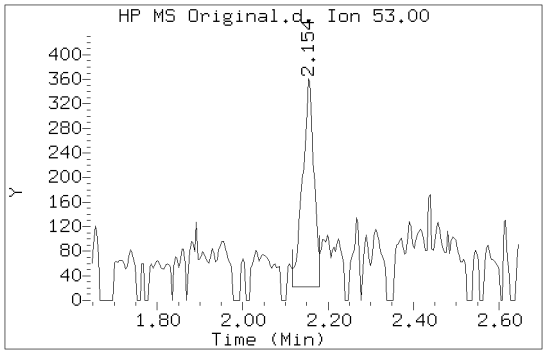


Chloroprene (126-99-8)

Reason Code:

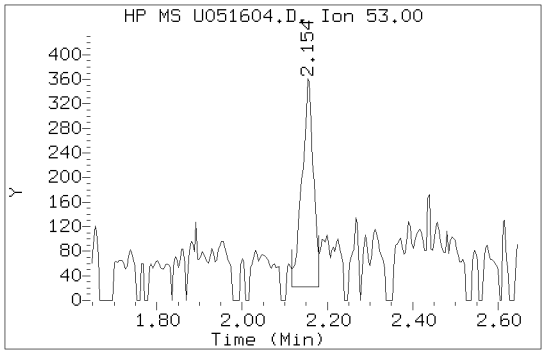
BEFORE

MASS
53
AREA
641
HEIGHT
339
07-Jun-2024
11:57
rucha
patel



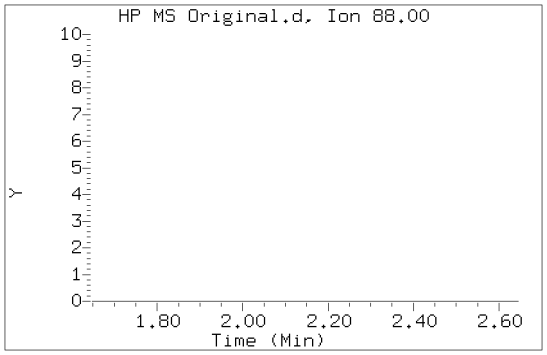
AFTER

MASS
53
AREA
641
HEIGHT
339
07-Jun-2024
11:57
rucha
patel



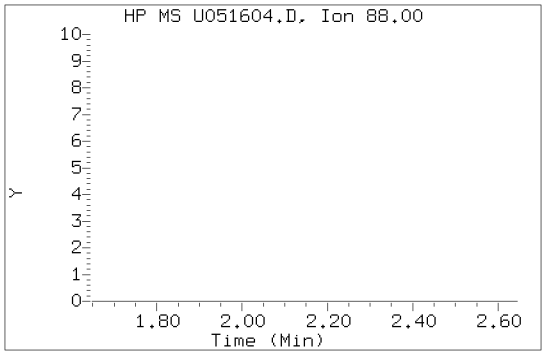
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

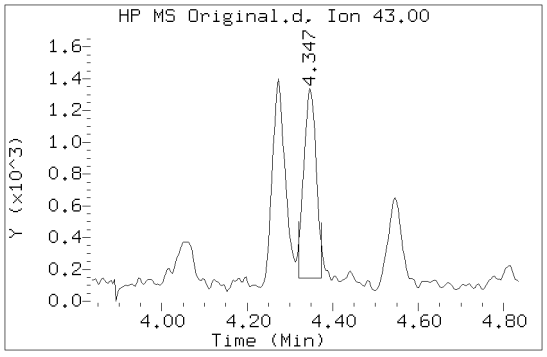


Ethyl Acetate (141-78-6)

Reason Code:

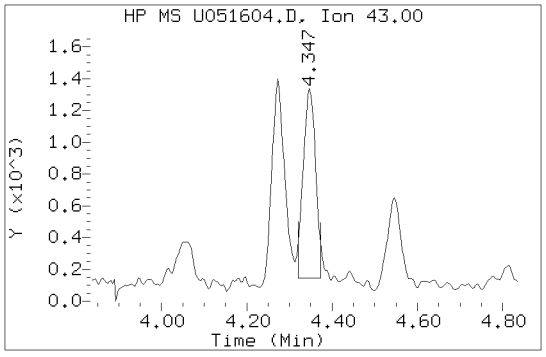
BEFORE

MASS
43
AREA
2467
HEIGHT
1195
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
43
AREA
2467
HEIGHT
1195
07-Jun-2024
11:57
rucha
patel



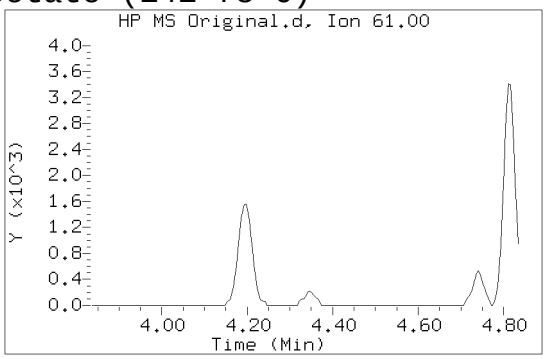
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

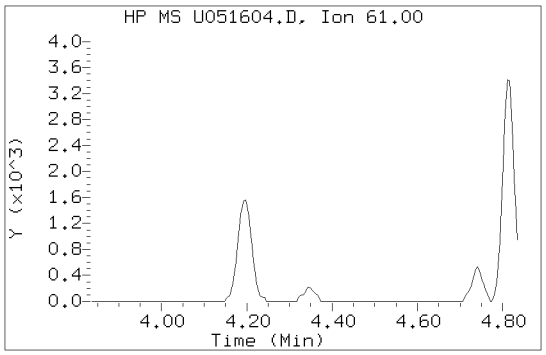
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



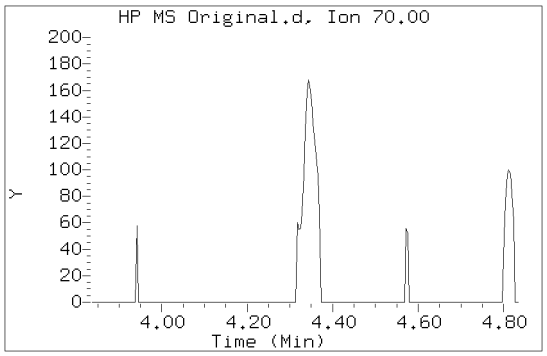
AFTER

MASS
61
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



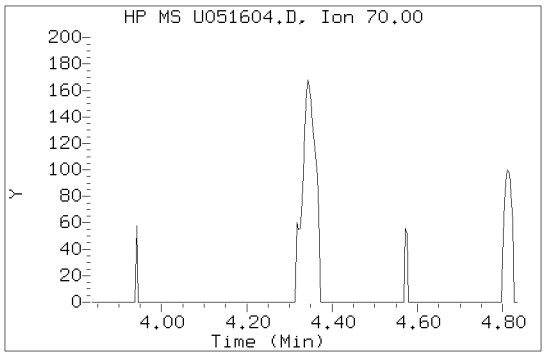
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

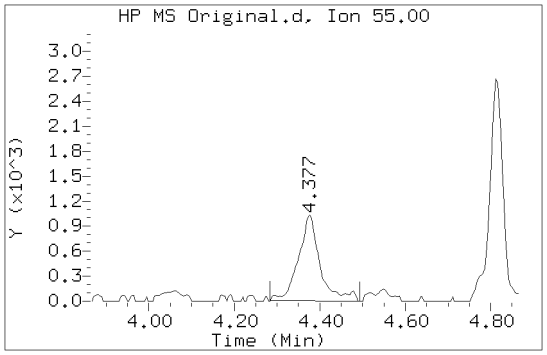


Methyl Acrylate (96-33-3)

Reason Code:

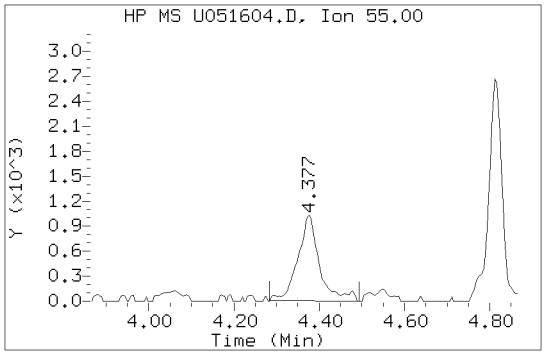
BEFORE

MASS
55
AREA
3671
HEIGHT
1029
07-Jun-2024
11:57
rucha
patel



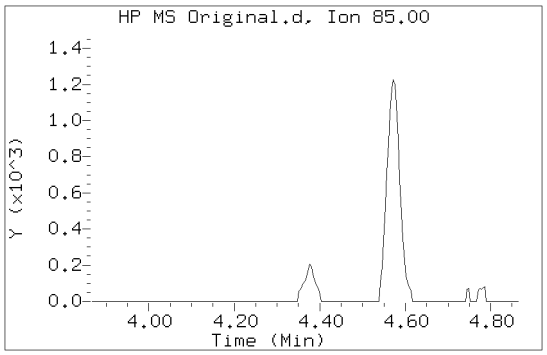
AFTER

MASS
55
AREA
3671
HEIGHT
1029
07-Jun-2024
11:57
rucha
patel



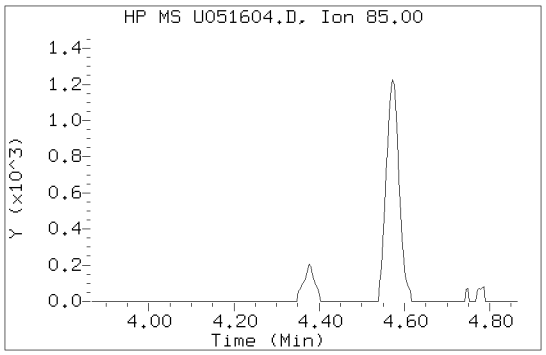
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
85
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



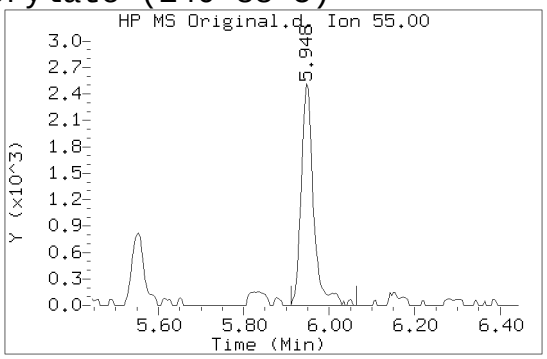
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

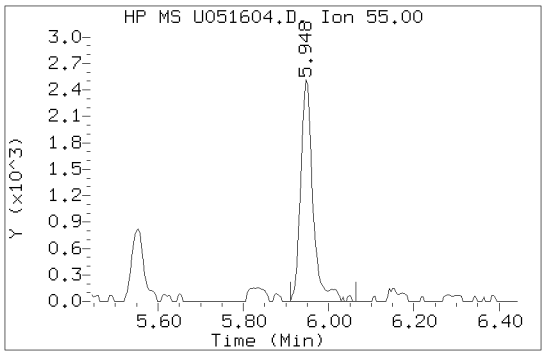
BEFORE

MASS
55
AREA
5131
HEIGHT
2516
07-Jun-2024
11:57
rucha
patel



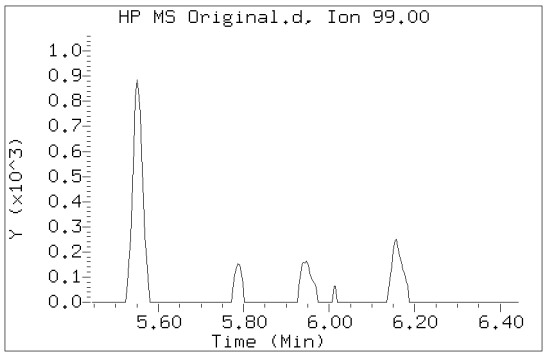
AFTER

MASS
55
AREA
5131
HEIGHT
2516
07-Jun-2024
11:57
rucha
patel



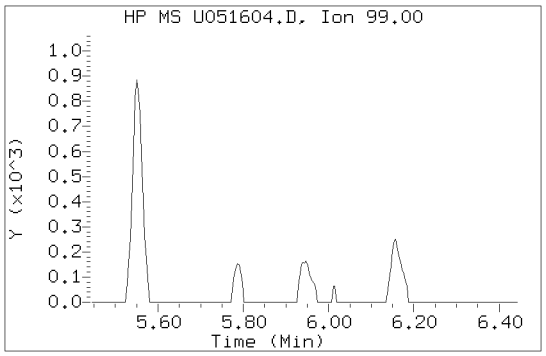
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
99
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel

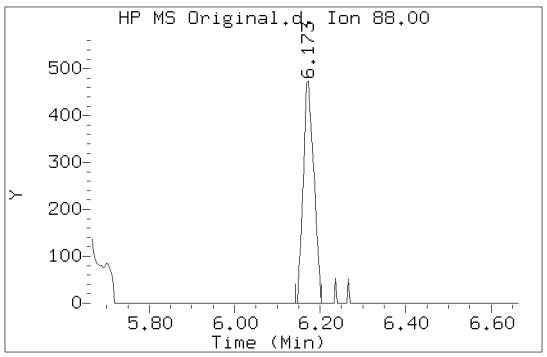


1,4-Dioxane ()

Reason Code:

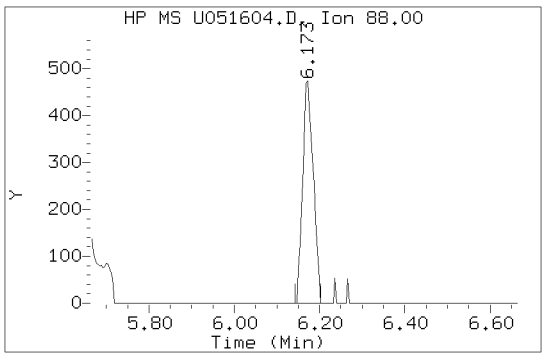
BEFORE

MASS
88
AREA
836
HEIGHT
474
07-Jun-2024
11:57
rucha
patel



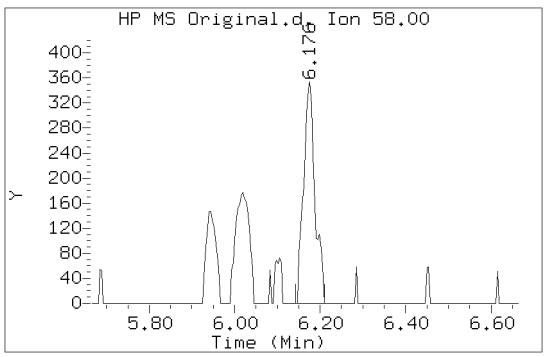
AFTER

MASS
88
AREA
836
HEIGHT
474
07-Jun-2024
11:57
rucha
patel



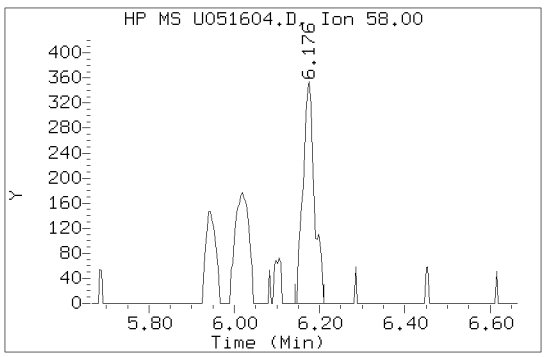
BEFORE

MASS
58
AREA
666
HEIGHT
354
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
58
AREA
666
HEIGHT
354
07-Jun-2024
11:57
rucha
patel

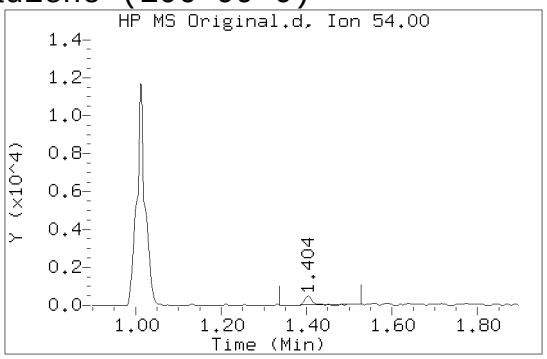


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

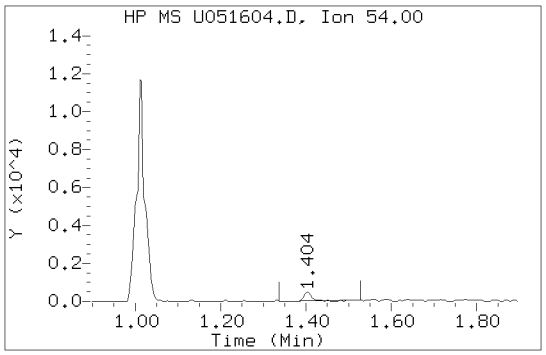
1,3-Butadiene (106-99-0)

Reason Code:

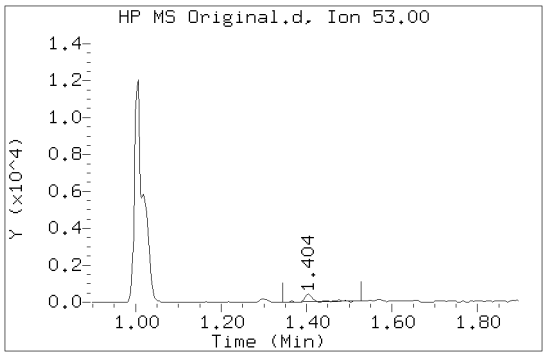
BEFORE
MASS
54
AREA
490
HEIGHT
478
07-Jun-2024
11:57
rucha
patel



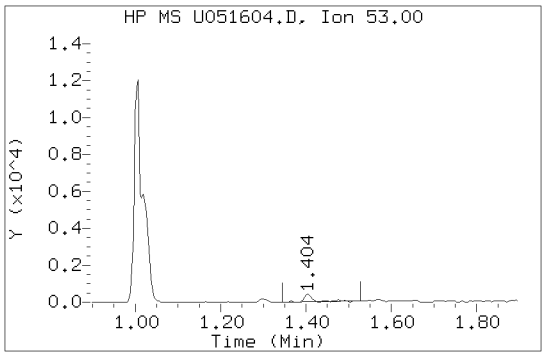
AFTER
MASS
54
AREA
490
HEIGHT
478
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
53
AREA
476
HEIGHT
426
07-Jun-2024
11:57
rucha
patel



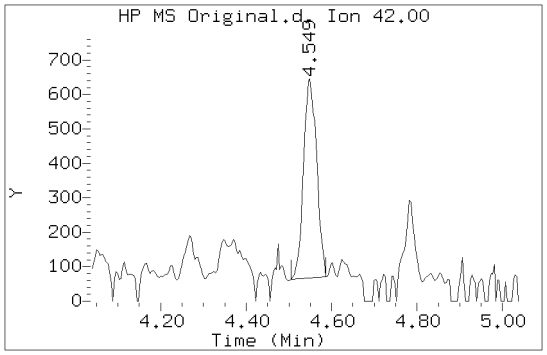
AFTER
MASS
53
AREA
476
HEIGHT
426
07-Jun-2024
11:57
rucha
patel



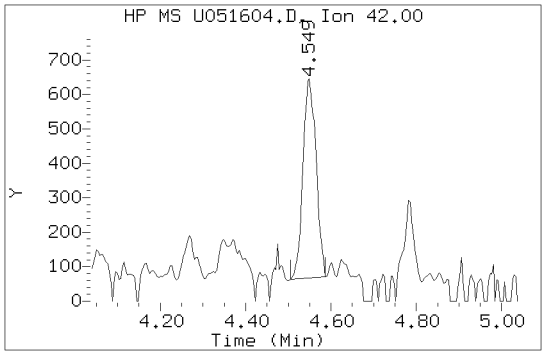
Tetrahydrofuran (109-99-9)

Reason Code:

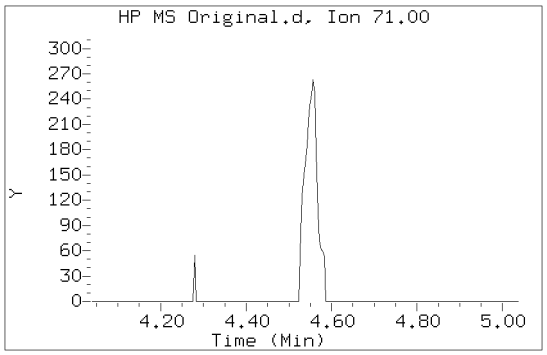
BEFORE
MASS
42
AREA
1255
HEIGHT
577
07-Jun-2024
11:57
rucha
patel



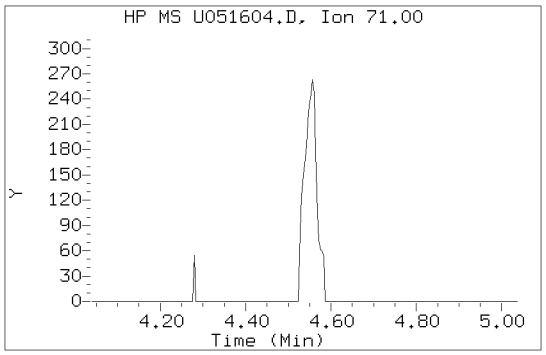
AFTER
MASS
42
AREA
1255
HEIGHT
577
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
71
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
71
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



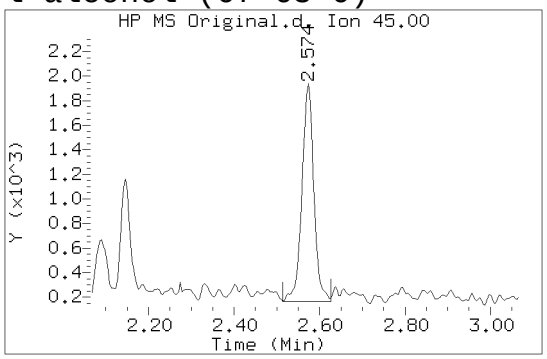
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051604.D
Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Isopropyl alcohol (67-63-0)

Reason Code:

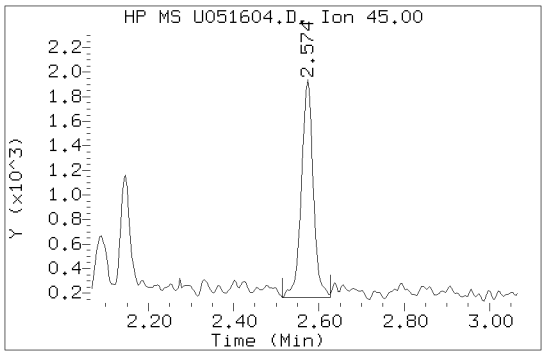
BEFORE

MASS
45
AREA
3463
HEIGHT
1773
07-Jun-2024
11:57
rucha
patel



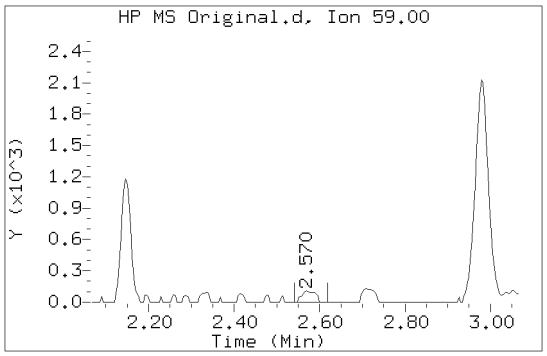
AFTER

MASS
45
AREA
3463
HEIGHT
1773
07-Jun-2024
11:57
rucha
patel



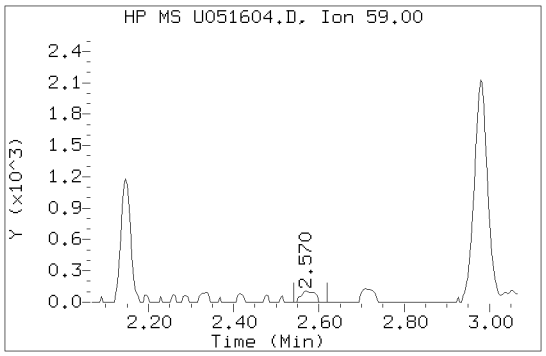
BEFORE

MASS
59
AREA
241
HEIGHT
112
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
59
AREA
241
HEIGHT
112
07-Jun-2024
11:57
rucha
patel

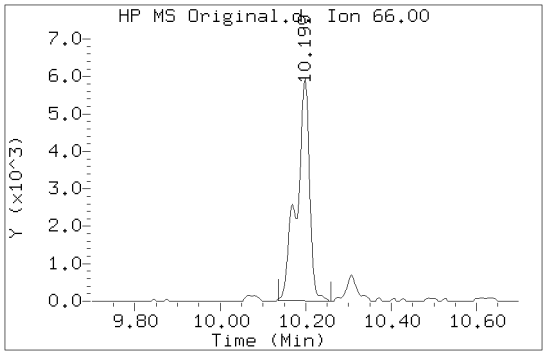


Dicyclopentadiene (77-73-6)

Reason Code:

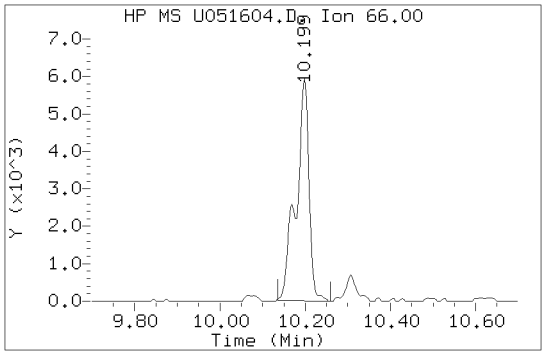
BEFORE

MASS
66
AREA
12758
HEIGHT
5929
07-Jun-2024
11:57
rucha
patel



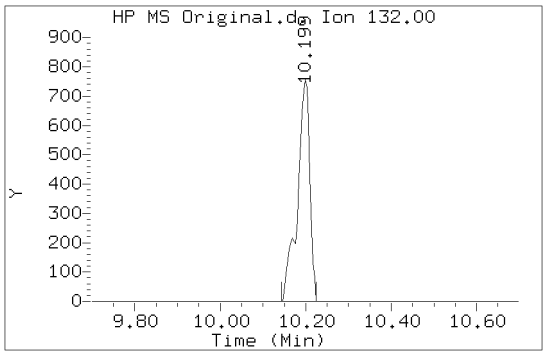
AFTER

MASS
66
AREA
12758
HEIGHT
5929
07-Jun-2024
11:57
rucha
patel



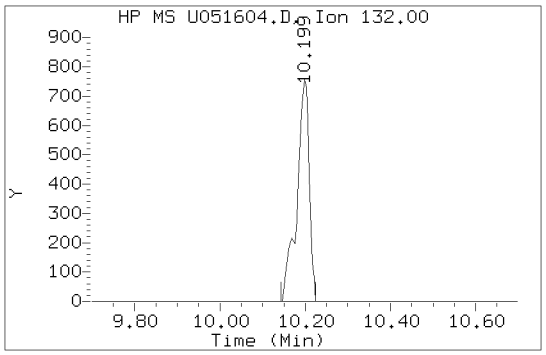
BEFORE

MASS
132
AREA
1546
HEIGHT
756
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
132
AREA
1546
HEIGHT
756
07-Jun-2024
11:57
rucha
patel



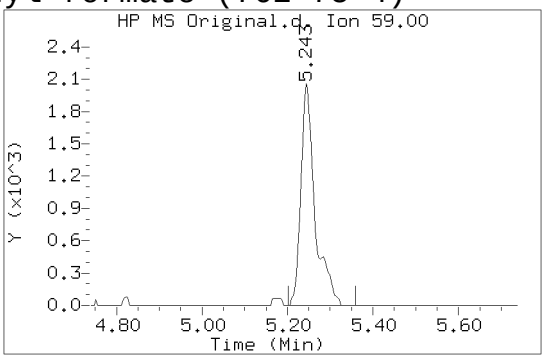
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

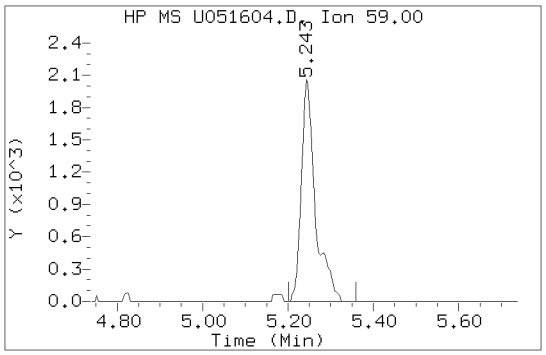
BEFORE

MASS
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4799
HEIGHT
2059
07-Jun-2024
11:57
rucha
patel



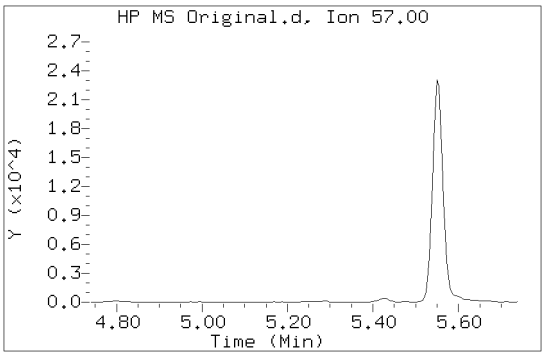
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rucha
patel



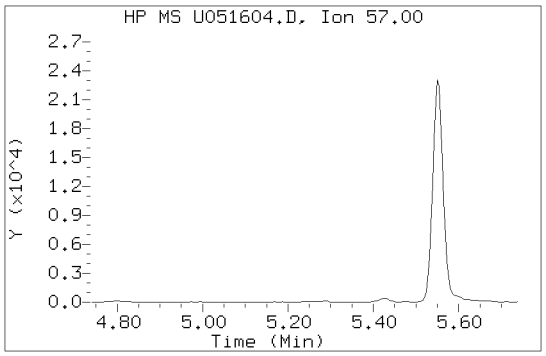
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11:57
rucha
patel



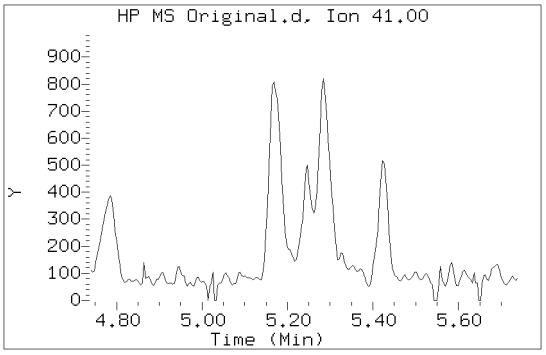
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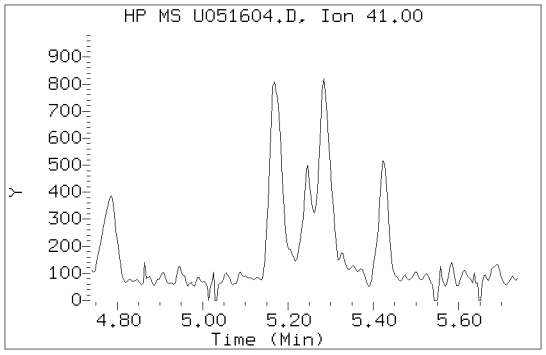
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07-Jun-2024
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AFTER

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07-Jun-2024
11:57
rucha
patel

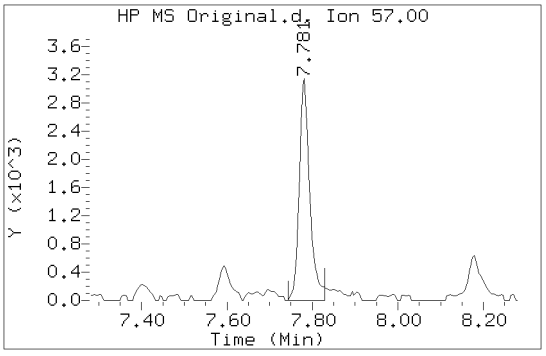


3,3-Dimethyl-1-butanol (624-95-3)

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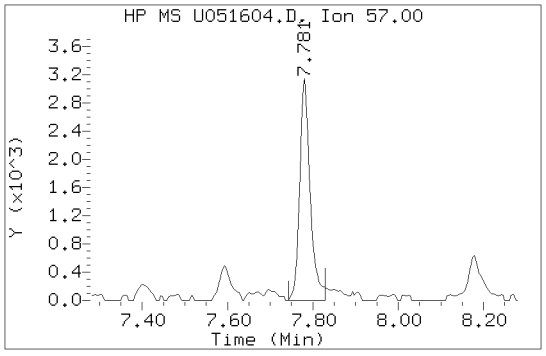
BEFORE

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5536
HEIGHT
3150
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
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AREA
5536
HEIGHT
3150
07-Jun-2024
11:57
rucha
patel

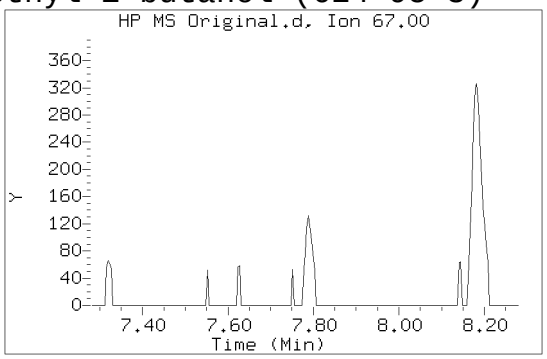


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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

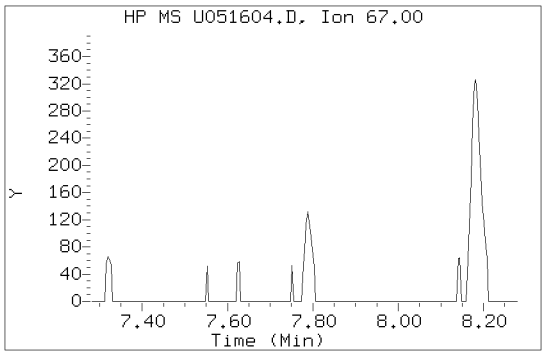
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

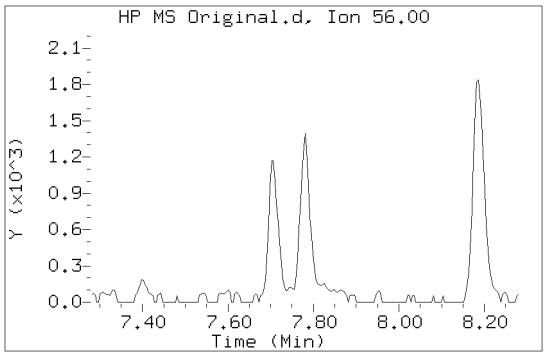
BEFORE
MASS
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07-Jun-2024
11:57
rucha
patel



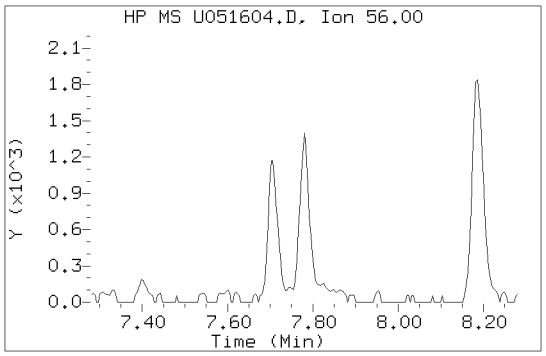
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0
07-Jun-2024
11:57
rucha
patel



BEFORE
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HEIGHT
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07-Jun-2024
11:57
rucha
patel



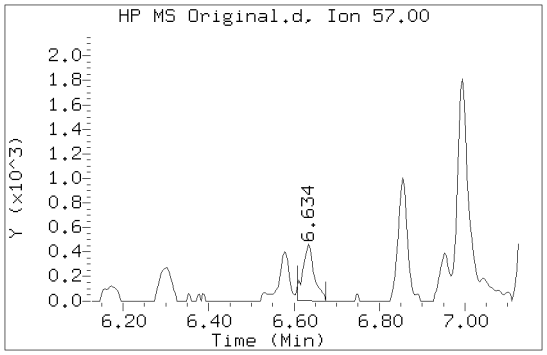
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rucha
patel



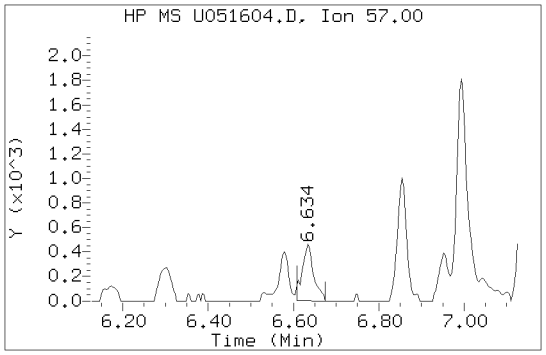
Epichlorohydrin (106-89-8)

Reason Code:

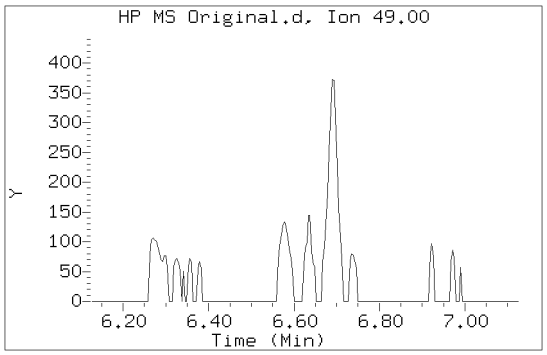
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HEIGHT
465
07-Jun-2024
11:57
rucha
patel



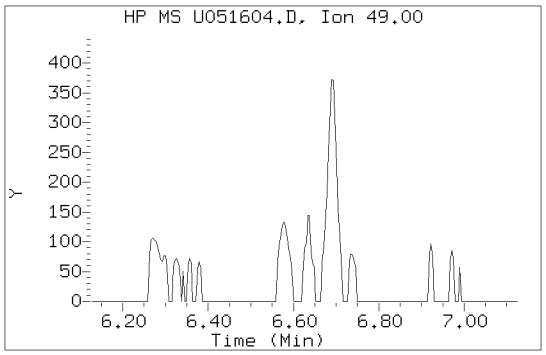
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AREA
895
HEIGHT
465
07-Jun-2024
11:57
rucha
patel



BEFORE
MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER
MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



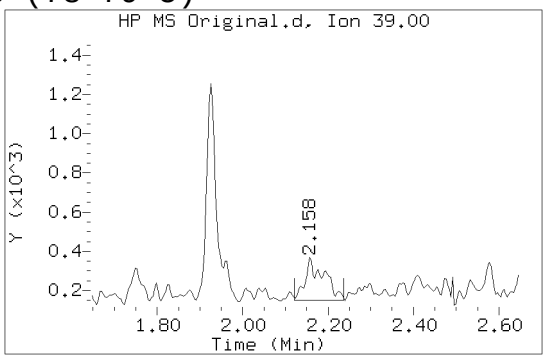
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

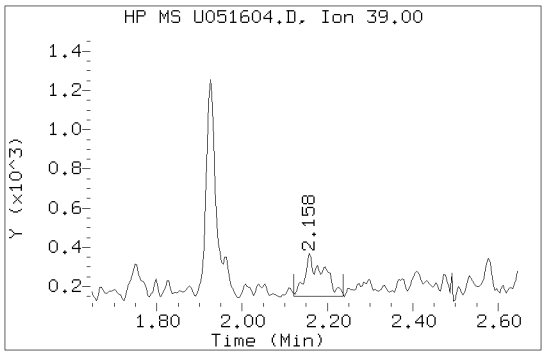
BEFORE

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AREA
671
HEIGHT
219
07-Jun-2024
11:57
rucha
patel



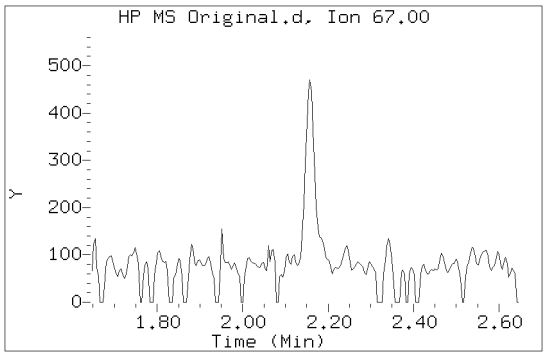
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AREA
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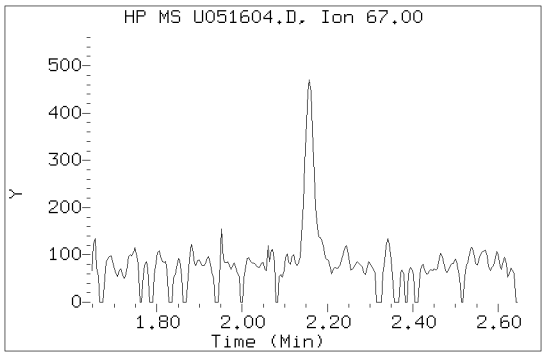
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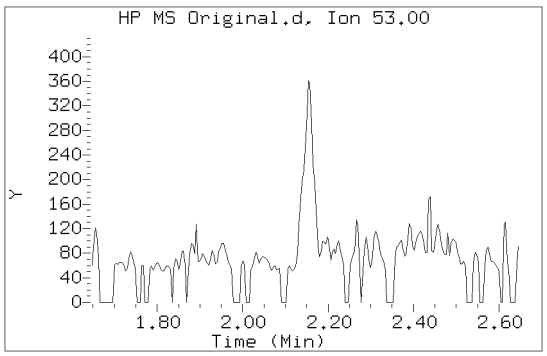
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11:57
rucha
patel



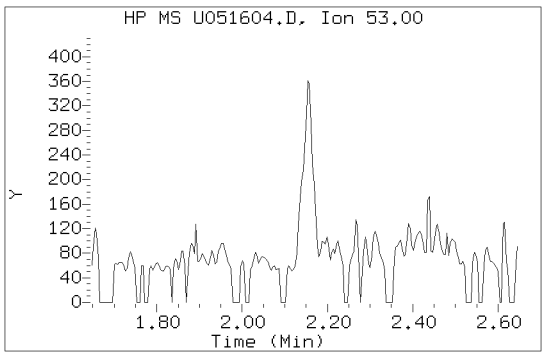
BEFORE

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07-Jun-2024
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patel



AFTER

MASS
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AREA
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HEIGHT
0
07-Jun-2024
11:57
rucha
patel

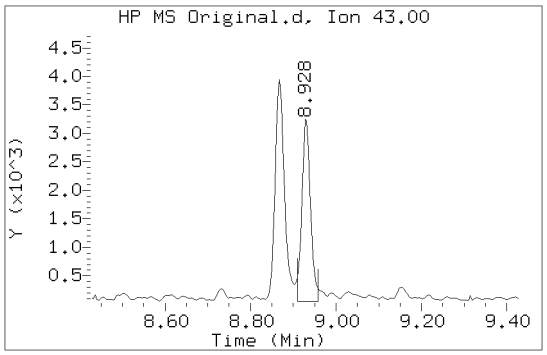


n-Amyl acetate (628-63-7)

Reason Code:

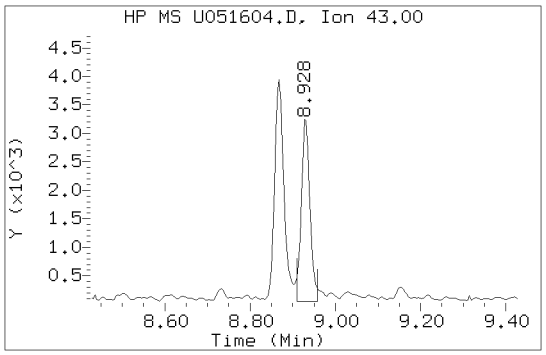
BEFORE

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HEIGHT
3195
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
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AREA
4651
HEIGHT
3195
07-Jun-2024
11:57
rucha
patel



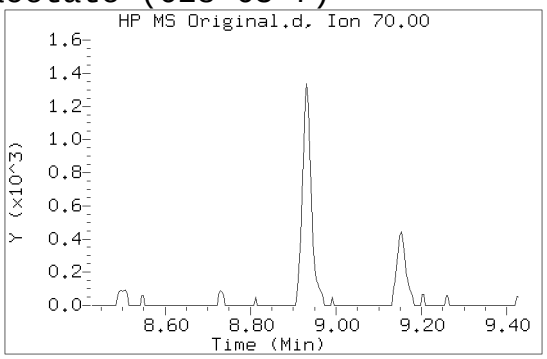
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

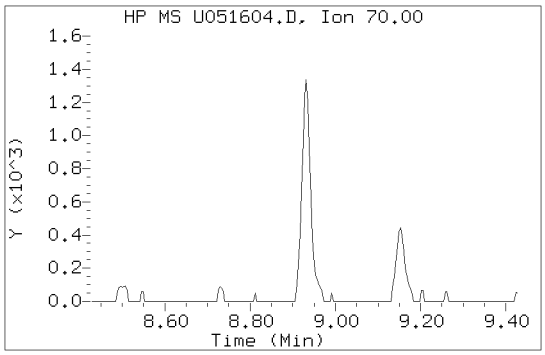
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11:57
rucha
patel



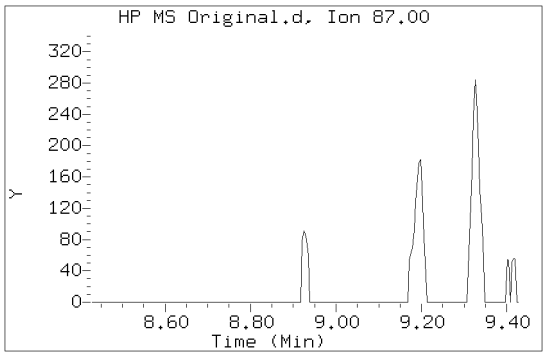
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11:57
rucha
patel



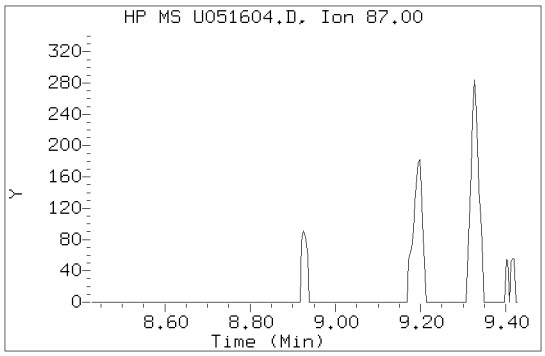
BEFORE

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0
07-Jun-2024
11:57
rucha
patel



AFTER

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HEIGHT
0
07-Jun-2024
11:57
rucha
patel

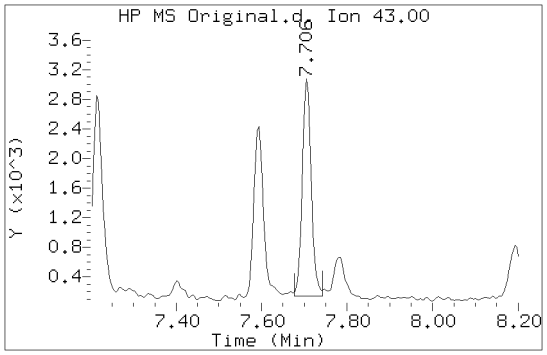


n-Butyl acetate (123-86-4)

Reason Code:

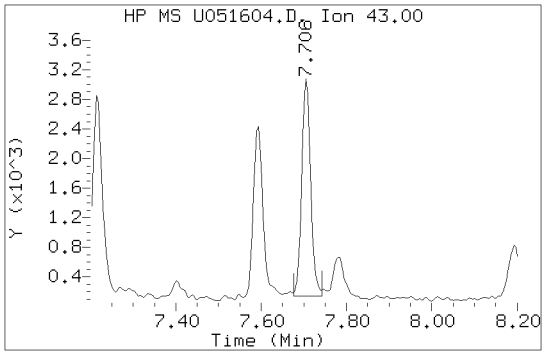
BEFORE

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2930
07-Jun-2024
11:57
rucha
patel



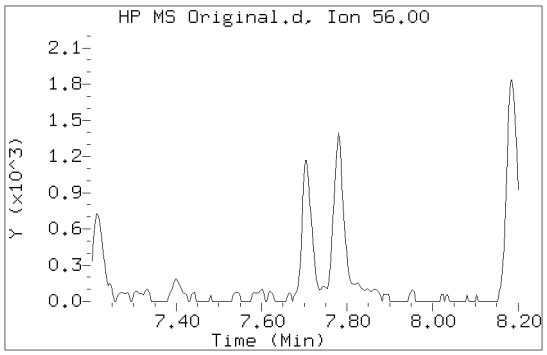
AFTER

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HEIGHT
2930
07-Jun-2024
11:57
rucha
patel



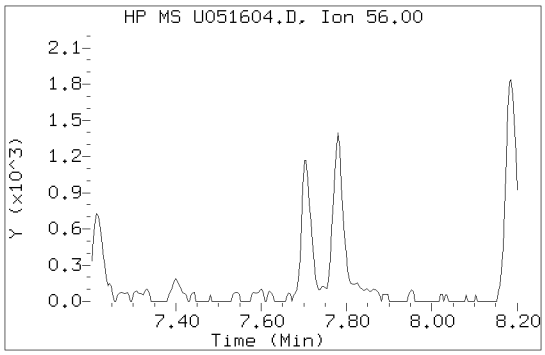
BEFORE

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0
07-Jun-2024
11:57
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patel



AFTER

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HEIGHT
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07-Jun-2024
11:57
rucha
patel



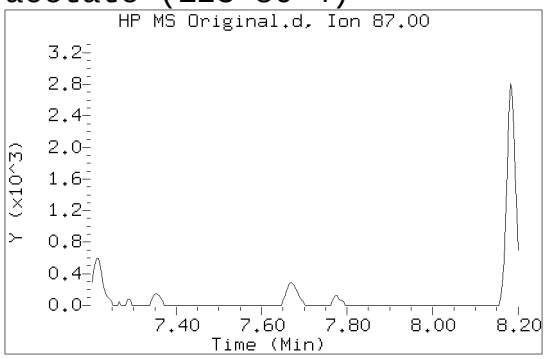
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Inj Date : 16-MAY-2024 13:02
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

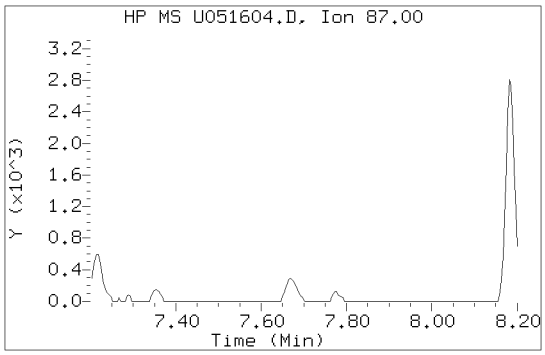
BEFORE

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



AFTER

MASS
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HEIGHT
0
07-Jun-2024
11:57
rucha
patel

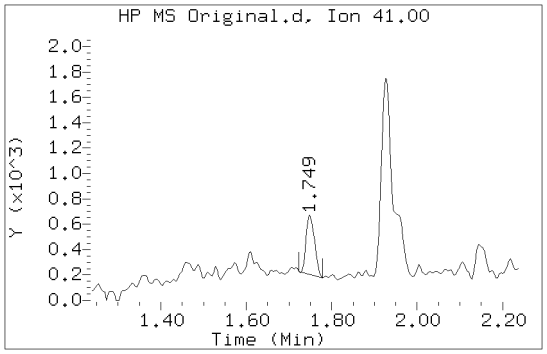


Isobutylene (115-11-7)

Reason Code:

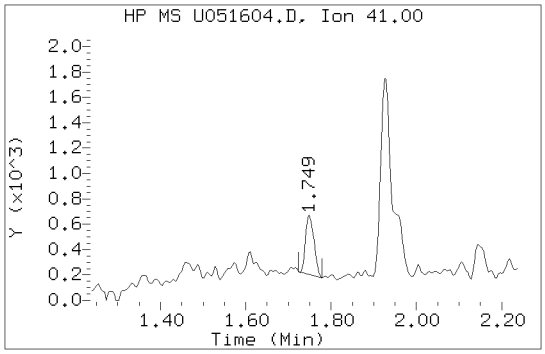
BEFORE

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AREA
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HEIGHT
465
07-Jun-2024
11:57
rucha
patel



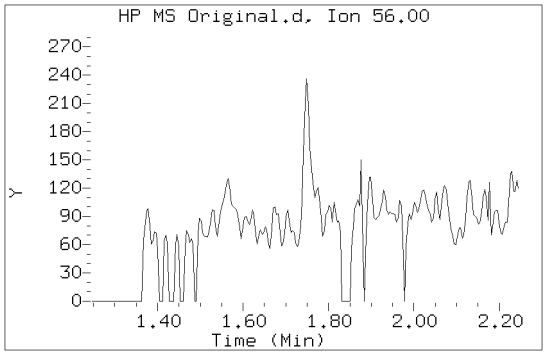
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11:57
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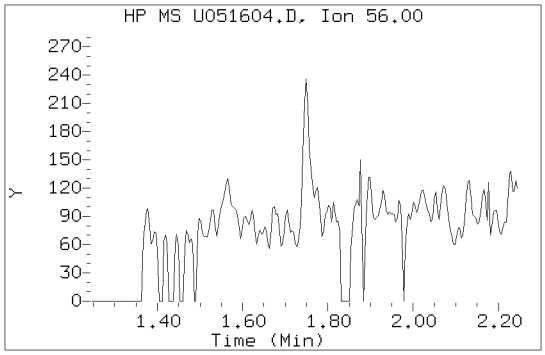
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11:57
rucha
patel



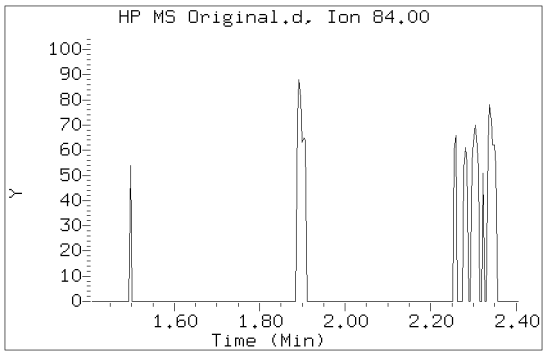
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07-Jun-2024
11:57
rucha
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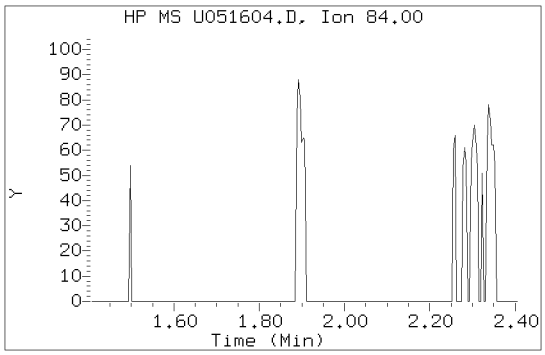
BEFORE

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07-Jun-2024
11:57
rucha
patel



AFTER

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AREA
0
HEIGHT
0
07-Jun-2024
11:57
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
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Inj Date : 16-MAY-2024 13:23
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 13:02 Cal File: U051604.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.811	4.811	(1.000)	312008	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	2351	2.00000	1.80(M)
3	Chloromethane	50	1.291	1.291	(0.268)	53722	2.00000	2.16(M)
4	Propionitrile	54	4.339	4.339	(0.902)	8324	20.0000	21.57(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	4800	2.00000	1.93(M)
6	Bromomethane	94	1.610	1.610	(0.335)	3983	2.00000	3.74
7	Chloroethane	64	1.693	1.693	(0.352)	2619	2.00000	2.33(M)
8	Trichlorofluoromethane	101	1.887	1.887	(0.392)	4522	2.00000	1.88
9	Acrolein	56	2.259	2.259	(0.469)	604	4.00000	3.37(a)
10	Acetone	43	2.409	2.409	(0.501)	7266	4.00000	3.47
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	3323	2.00000	1.88
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	17121	40.0000	43.42(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	5341	20.0000	21.01(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	13135	2.00000	2.07(a)
15	Iodomethane	142	2.461	2.461	(0.512)	1552	4.00000	4.75(TM)
16	Acrylonitrile	53	3.065	3.065	(0.637)	4397	4.00000	3.70
17	Methylene Chloride	84	2.791	2.791	(0.580)	8047	2.00000	1.88
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	14166	2.00000	2.20
19	Carbon Disulfide	76	2.514	2.514	(0.522)	18521	4.00000	3.45
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	3918	2.00000	1.87

21 Vinyl Acetate	43	4.343	4.343 (0.903)	5338	4.00000	3.92(M)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	7991	2.00000	2.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	2.150	2.150	(0.447)	1113	2.00000	1.65(aM)
24	2-Butanone	43	4.268	4.268	(0.887)	5976	4.00000	4.27
25	Methacrylonitrile	41	4.497	4.497	(0.935)	3086	2.00000	1.97(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	5585	2.00000	1.88
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	5136	2.00000	2.03
28	Chloroform	83	4.572	4.572	(0.950)	8229	2.00000	2.09
29	Bromochloromethane	128	4.467	4.467	(0.928)	2652	2.00000	2.13
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.987)	4479	2.00000	2.19
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	5171	2.00000	1.85
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	5478	2.00000	1.93
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	6669	2.00000	2.11
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	3584	2.00000	2.15(M)
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	5729	2.00000	2.33
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	464510	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	18332	2.00000	1.95
38	Trichloroethene	130	5.786	5.786	(1.043)	4476	2.00000	1.96(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	5430	2.00000	1.97(aM)
40	Methyl Methacrylate	41	5.827	5.827	(1.211)	1771	2.00000	1.89(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	5895	4.00000	3.84
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	5451	2.00000	2.15(aM)
43	2-Nitropropane	43	6.573	6.573	(1.366)	3434	2.00000	1.93(aM)
44	Dibromomethane	93	6.116	6.116	(1.102)	3116	2.00000	2.06(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	12441	4.00000	4.15(a)
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	6666	2.00000	1.87(a)
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	415852	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	17627	2.00000	2.23(a)
49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	6381	2.00000	2.01(a)
50	Toluene	91	6.978	6.978	(0.853)	20003	2.00000	2.03(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	5154	2.00000	1.75(a)
52	2-Hexanone	43	7.589	7.589	(0.928)	8295	4.00000	4.04(a)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	3997	2.00000	2.12(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	8546	2.00000	2.05(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	3603	2.00000	2.89(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	3267	2.00000	2.36(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	4371	2.00000	1.99(a)
58	1-Chlorohexane	55	8.189	8.189	(1.475)	7336	2.00000	1.70(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	13492	2.00000	2.09(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4103	2.00000	1.94(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	5906	2.00000	1.89(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	15514	4.00000	3.95(a)
63	o-Xylene	106	8.744	8.744	(1.069)	7864	2.00000	2.00(a)
64	Styrene	104	8.759	8.759	(1.071)	13723	2.00000	2.01(a)
66	Bromoform	173	8.916	8.916	(1.090)	2518	2.00000	2.21(aM)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	17206	2.00000	1.84(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	6631	2.00000	2.00(a)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	7729	2.00000	2.54(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	223863	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	7453	2.00000	2.11(aM)
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	1583	2.00000	2.02(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	20286	2.00000	1.87(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	5480	2.00000	1.99(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	15895	2.00000	1.95(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	14448	2.00000	2.05(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	15709	2.00000	1.94(a)

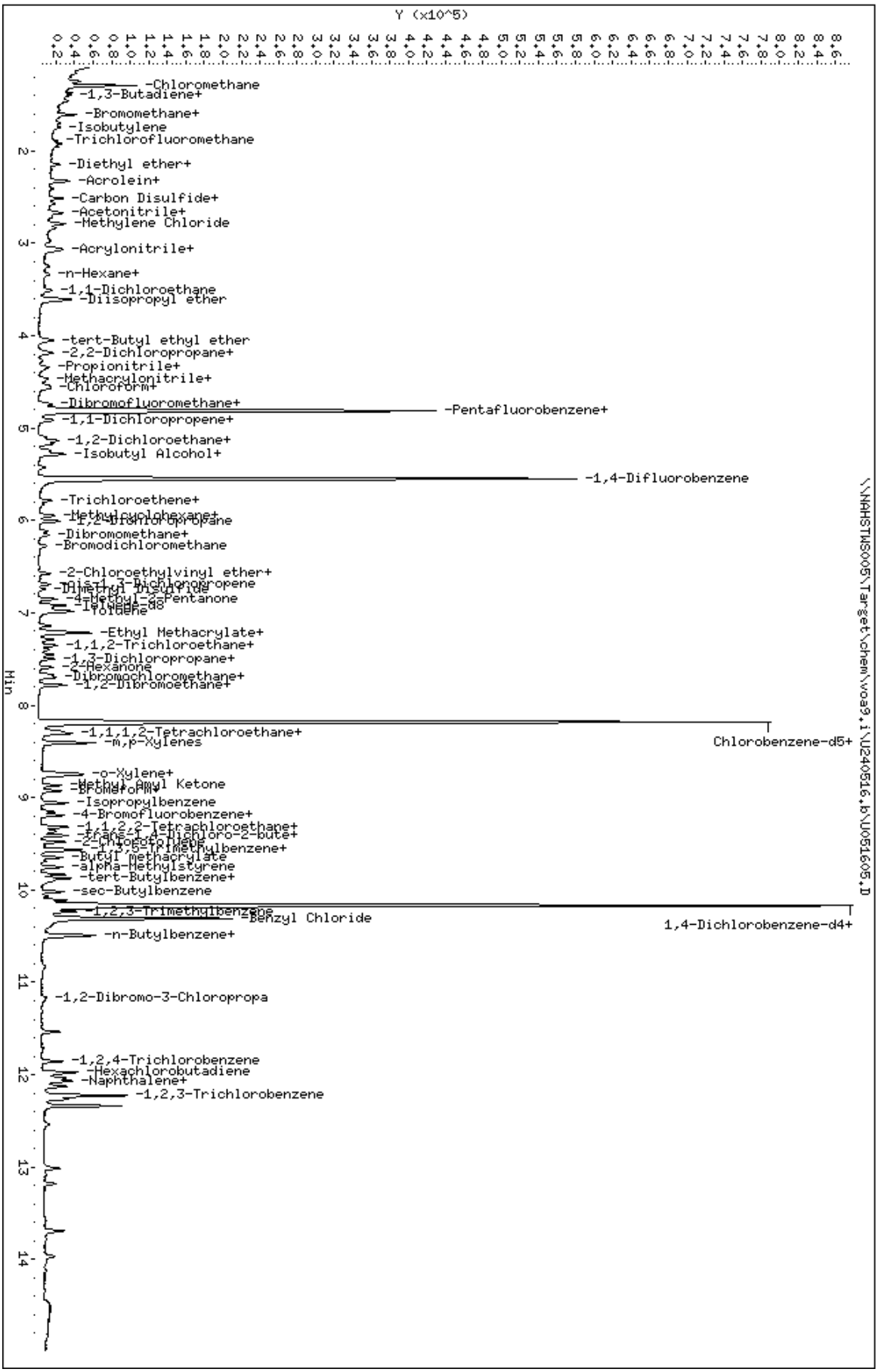
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	12022	2.00000	1.85(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	21829	2.00000	2.22(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	16293	2.00000	1.85(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	15068	2.00000	1.87(a)
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	11076	2.00000	2.10(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	11076	2.00000	2.10(a)
86	Benzyl Chloride	91	10.307	10.307	(1.260)	191781	2.00000	3.24(a)
87	n-Butylbenzene	91	10.487	10.487	(1.031)	24775	2.00000	1.70(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	10038	2.00000	2.06(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	984	2.00000	2.01(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	6522	2.00000	1.93(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	2265	2.00000	1.67(a)
92	Naphthalene	128	12.065	12.065	(1.187)	16583	2.00000	2.01(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	5883	2.00000	1.99(a)
146	Methyl acetate	43	2.712	2.712	(0.564)	5451	2.00000	2.30(a)
138	Freon TF	101	2.326	2.326	(0.484)	4993	2.00000	2.16(a)
141	Cyclohexane	56	4.808	4.808	(0.999)	9189	2.00000	1.54(aM)
142	Tetrahydrofuran	42	4.545	4.545	(0.945)	2179	4.00000	4.06(a)
147	Methylcyclohexane	55	5.944	5.944	(1.071)	10495	2.00000	1.89(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1553	40.0000	46.76
132	n-Butanol	56	5.827	5.827	(1.211)	2779	40.0000	38.96(a)
136	n-Hexane	57	3.334	3.334	(0.693)	2980	2.00000	1.57(Ta)
139	Diethyl ether	59	2.142	2.142	(0.445)	3929	2.00000	2.20(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	9133	40.0000	44.76
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	7013	40.0000	44.17(TM)
152	Amyl alcohol	42	7.398	7.398	(0.904)	2808	40.0000	38.01
156	Diisopropyl ether	45	3.619	3.619	(0.752)	15734	2.00000	2.07(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	9654	2.00000	1.88(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	9068	2.00000	1.87(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	21873	2.00000	1.59(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	15854	2.00000	2.07(a)
167	Ethanol	45	2.086	2.086	(0.434)	1307	40.0000	38.74
172	tert-Butyl formate	59	5.243	5.243	(1.090)	9331	4.00000	4.07(aM)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	11133	40.0000	38.99(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	16030	2.00000	2.16(a)
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.842)	15360	2.00000	2.16(a)
176	tert-Amyl alcohol	59	5.243	5.243	(1.090)	9331	40.0000	41.49
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	30947	40.0000	37.67
140	1,3-Butadiene	54	1.396	1.396	(0.290)	1847	2.00000	1.74(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	1677	8.00000	8.19(M)
M 94	1,2-Dichloroethylene (total)	96				9054	4.00000	(a)
130	Ethyl Acetate	43	4.343	4.343	(0.903)	6098	2.00000	2.25(a)
131	Methyl Acrylate	55	4.373	4.373	(0.909)	6624	2.00000	2.12(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	8855	2.00000	1.94(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	5819	40.0000	41.78(a)
185	Isoprene	39	2.154	2.154	(0.448)	932	2.00000	1.73(a)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	14395	2.00000	1.88(aM)
150	Allyl alcohol	57	3.334	3.334	(0.693)	2980	40.0000	31.54
194	Acetaldehyde	44	1.396	1.396	(0.290)	533	8.00000	1.38(aM)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	12090	2.00000	2.02(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	2432	2.00000	3.74(a)
202	Isobutylene	41	1.745	1.745	(0.363)	1320	2.00000	1.78(aM)

133 Ethyl Acrylate	55	5.944	5.944 (1.235)	10495	2.00000	1.89(a)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	6190	2.00000	2.00(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.199	2.199	(0.457)	1618	4.00000	4.97(aM)
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	7775	2.00000	2.27(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\voa9,i\U240516,b\U051605,D
Date : 16-MAY-2024 13:23
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

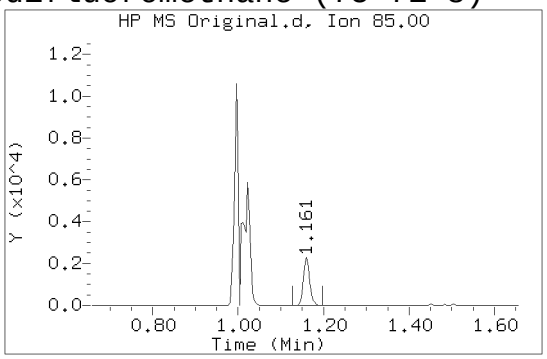
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InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

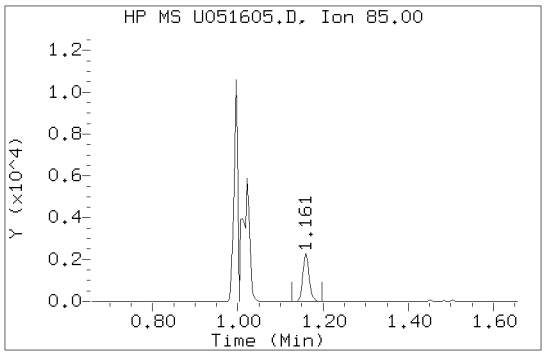
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AREA
2351
HEIGHT
2306
07-Jun-2024
11:58
rucha
patel



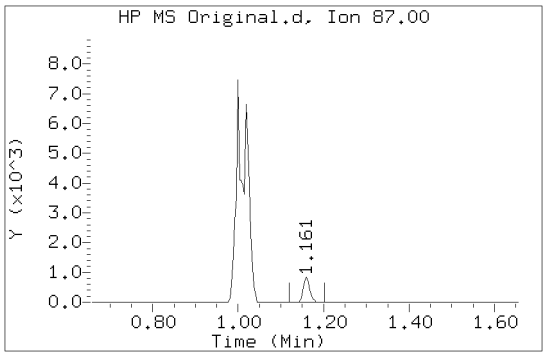
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2351
HEIGHT
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rucha
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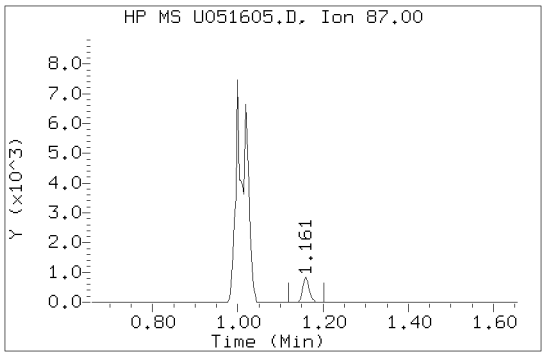
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AREA
879
HEIGHT
833
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
879
HEIGHT
833
07-Jun-2024
11:58
rucha
patel

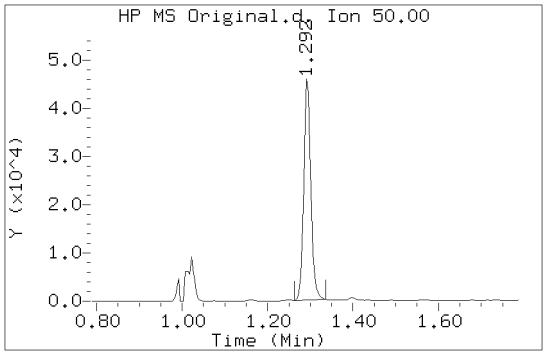


Chloromethane (74-87-3)

Reason Code:

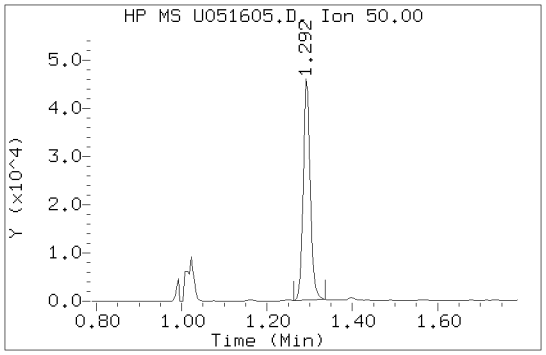
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HEIGHT
45834
07-Jun-2024
11:58
rucha
patel



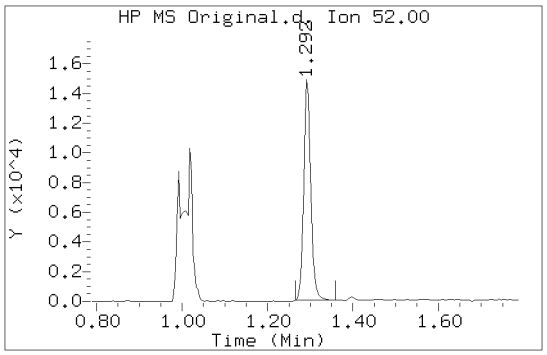
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07-Jun-2024
11:58
rucha
patel



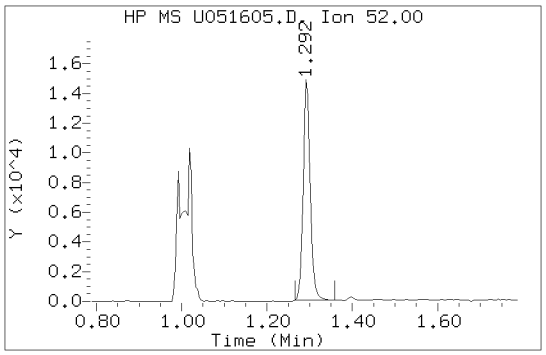
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MASS
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AREA
17389
HEIGHT
14848
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
17389
HEIGHT
14848
07-Jun-2024
11:58
rucha
patel



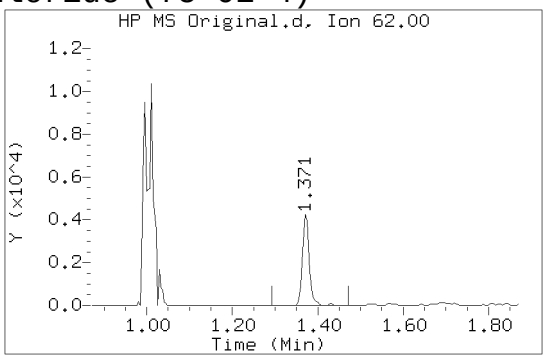
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Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Chloride (75-01-4)

Reason Code:

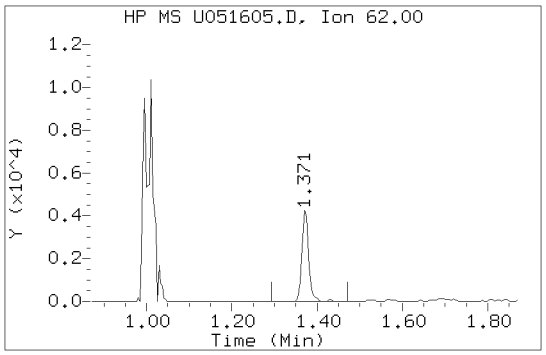
BEFORE

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AREA
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HEIGHT
4257
07-Jun-2024
11:58
rucha
patel



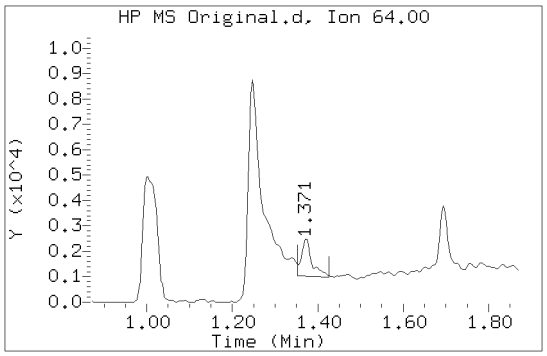
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rucha
patel



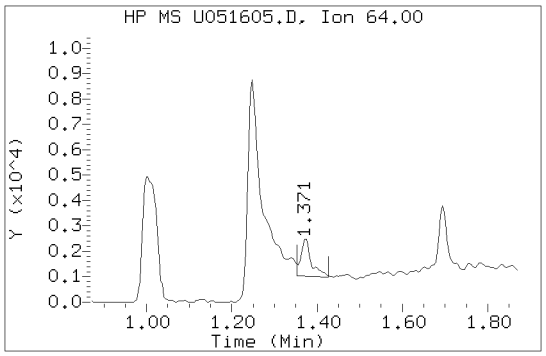
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1464
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
64
AREA
2634
HEIGHT
1464
07-Jun-2024
11:58
rucha
patel

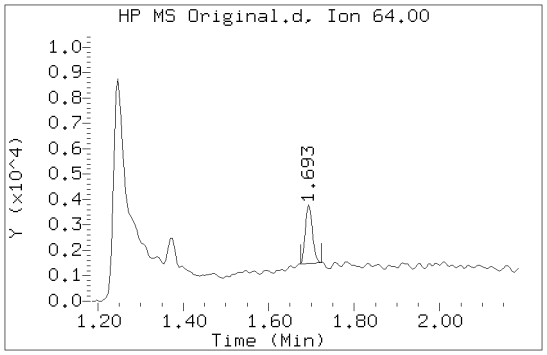


Chloroethane (75-00-3)

Reason Code:

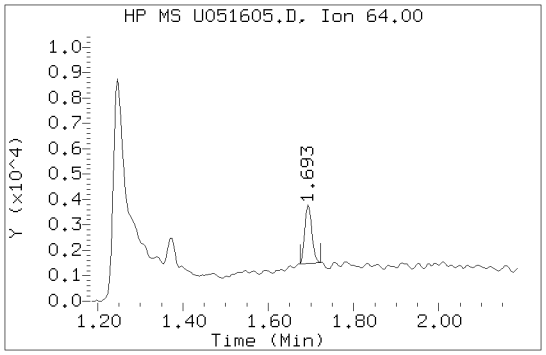
BEFORE

MASS
64
AREA
2619
HEIGHT
2302
07-Jun-2024
11:58
rucha
patel



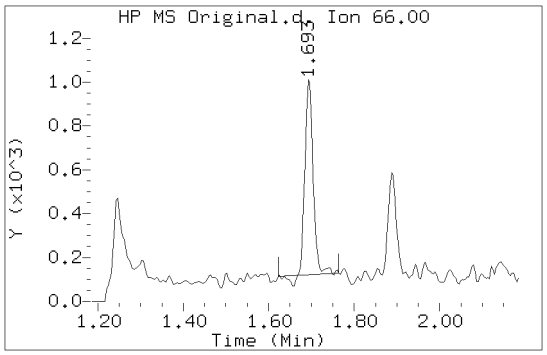
AFTER

MASS
64
AREA
2619
HEIGHT
2302
07-Jun-2024
11:58
rucha
patel



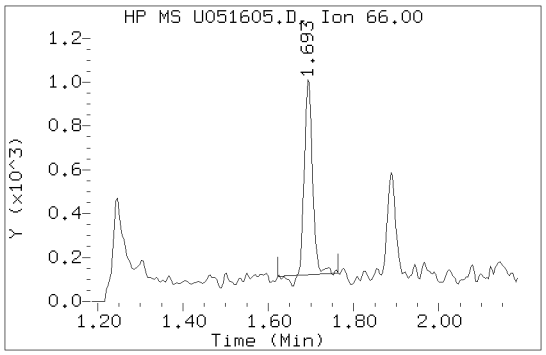
BEFORE

MASS
66
AREA
1149
HEIGHT
888
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
66
AREA
1149
HEIGHT
888
07-Jun-2024
11:58
rucha
patel



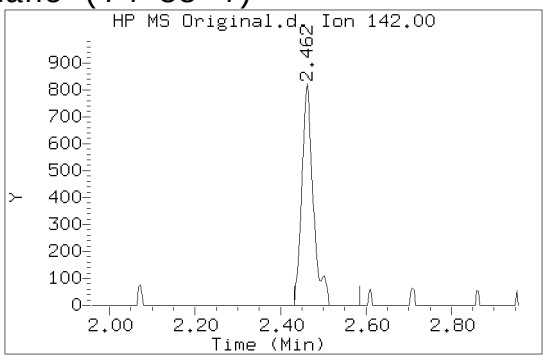
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

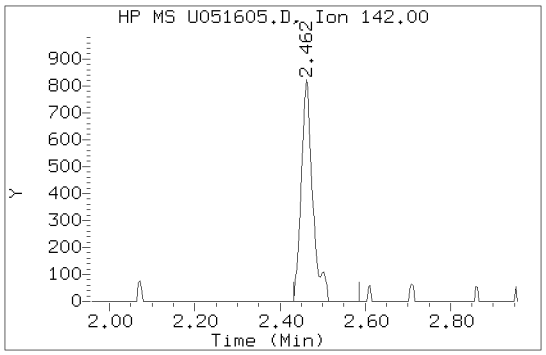
BEFORE

MASS
142
AREA
1552
HEIGHT
823
07-Jun-2024
11:58
rucha
patel



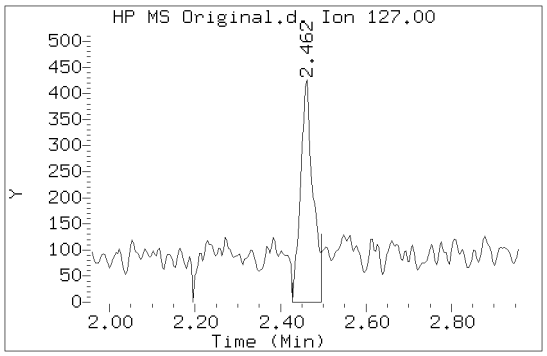
AFTER

MASS
142
AREA
1552
HEIGHT
823
07-Jun-2024
11:58
rucha
patel



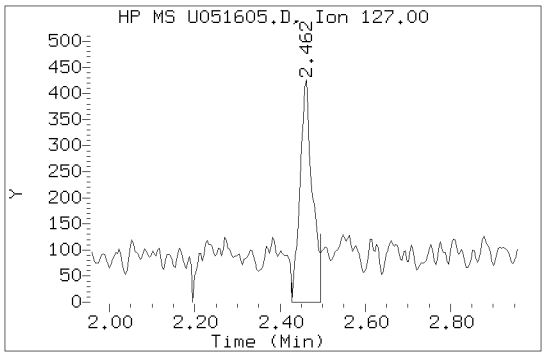
BEFORE

MASS
127
AREA
874
HEIGHT
426
07-Jun-2024
11:58
rucha
patel



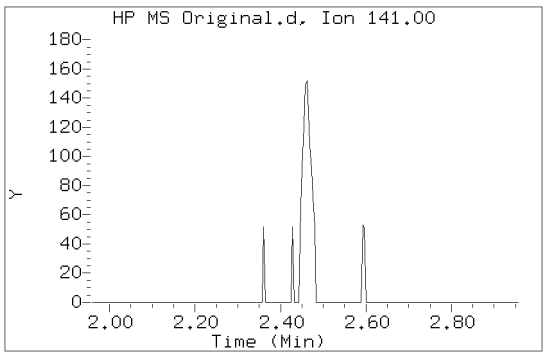
AFTER

MASS
127
AREA
874
HEIGHT
426
07-Jun-2024
11:58
rucha
patel



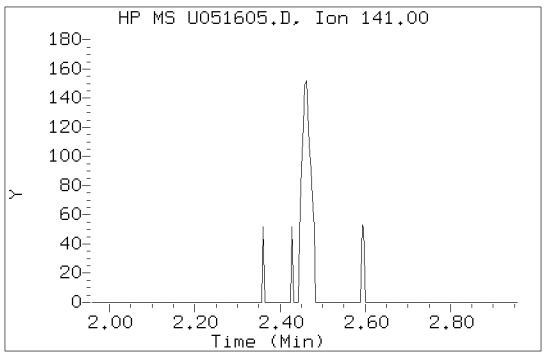
BEFORE

MASS
141
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
141
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

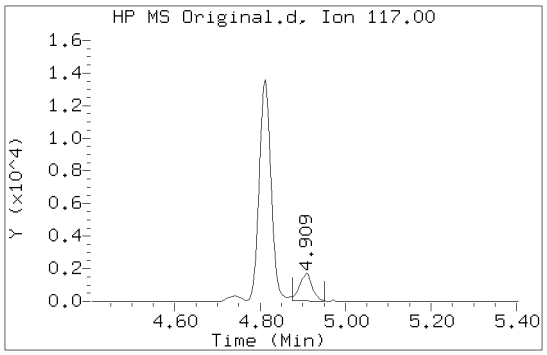


Carbon Tetrachloride (56-23-5)

Reason Code:

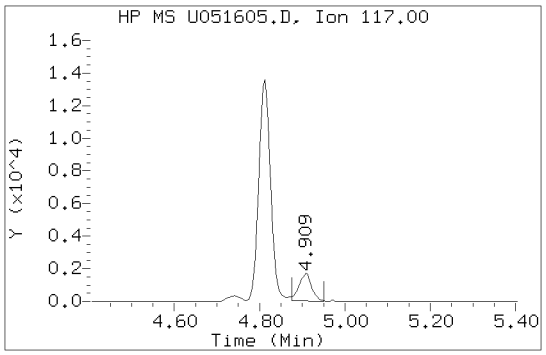
BEFORE

MASS
117
AREA
3584
HEIGHT
1703
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
117
AREA
3584
HEIGHT
1703
07-Jun-2024
11:58
rucha
patel



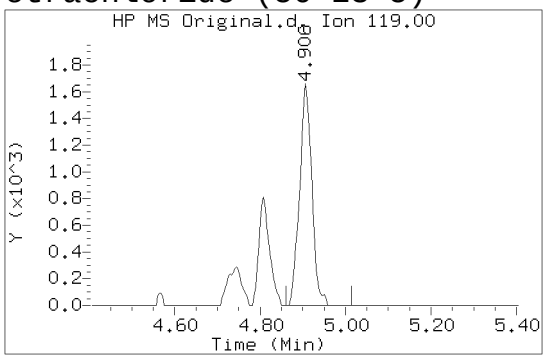
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

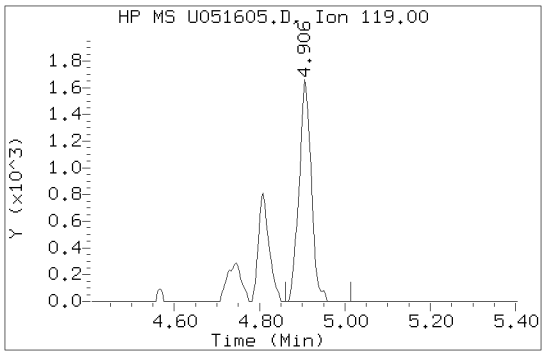
BEFORE

MASS
119
AREA
3366
HEIGHT
1660
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
119
AREA
3366
HEIGHT
1660
07-Jun-2024
11:58
rucha
patel

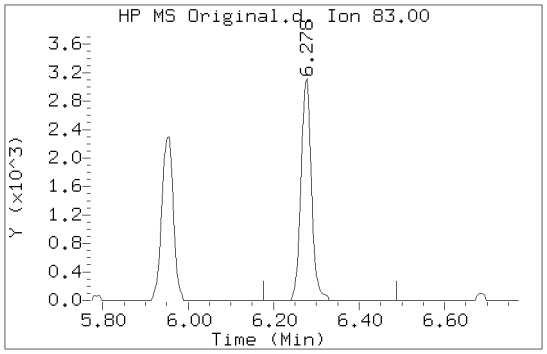


Bromodichloromethane (75-27-4)

Reason Code:

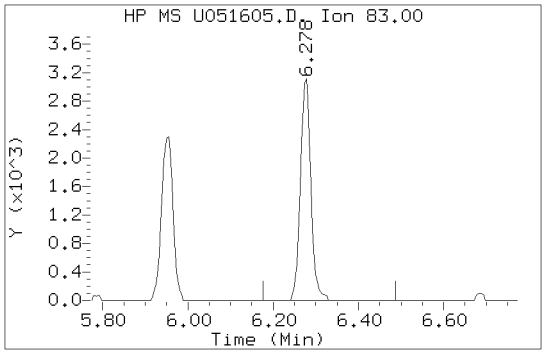
BEFORE

MASS
83
AREA
5430
HEIGHT
3115
07-Jun-2024
11:58
rucha
patel



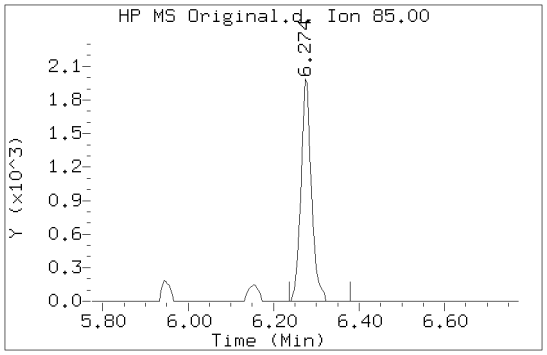
AFTER

MASS
83
AREA
5430
HEIGHT
3115
07-Jun-2024
11:58
rucha
patel



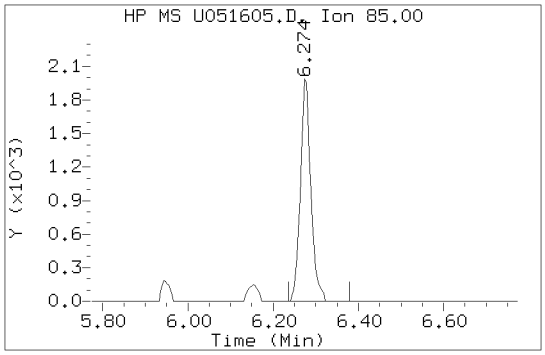
BEFORE

MASS
85
AREA
3454
HEIGHT
1989
07-Jun-2024
11:58
rucha
patel



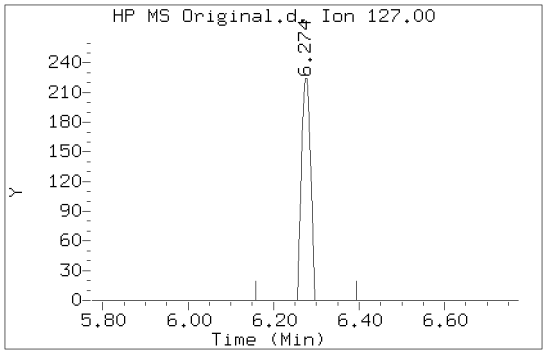
AFTER

MASS
85
AREA
3454
HEIGHT
1989
07-Jun-2024
11:58
rucha
patel



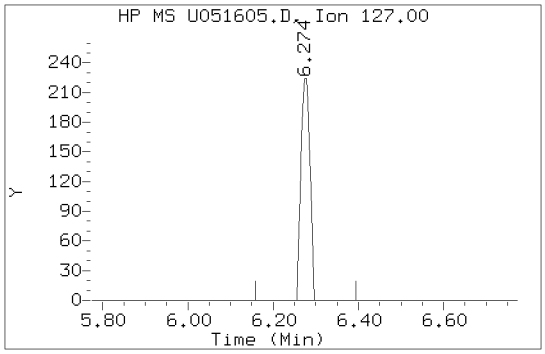
BEFORE

MASS
127
AREA
341
HEIGHT
224
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
127
AREA
341
HEIGHT
224
07-Jun-2024
11:58
rucha
patel



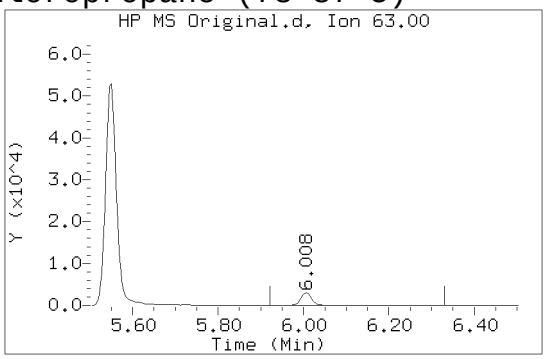
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dichloropropane (78-87-5)

Reason Code:

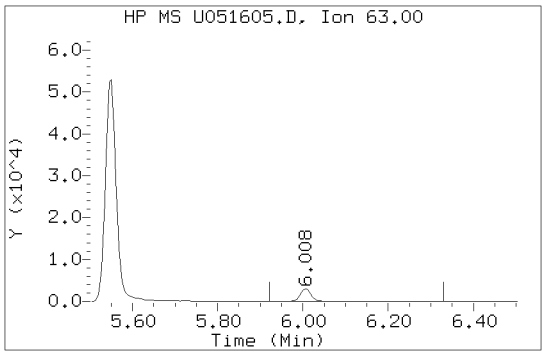
BEFORE

MASS
63
AREA
5451
HEIGHT
2996
07-Jun-2024
11:58
rucha
patel



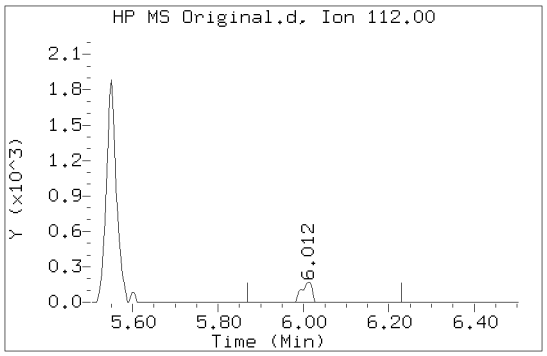
AFTER

MASS
63
AREA
5451
HEIGHT
2996
07-Jun-2024
11:58
rucha
patel



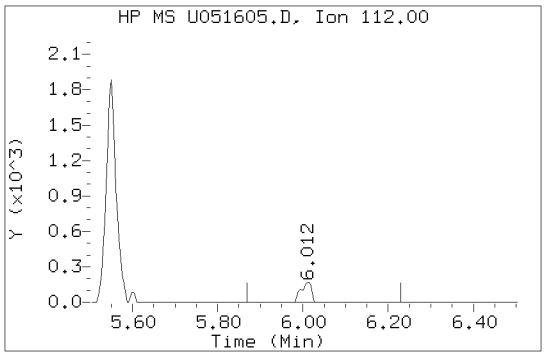
BEFORE

MASS
112
AREA
292
HEIGHT
169
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
112
AREA
292
HEIGHT
169
07-Jun-2024
11:58
rucha
patel

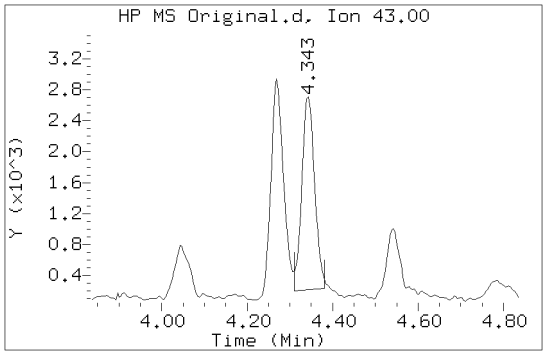


Vinyl Acetate (108-05-4)

Reason Code:

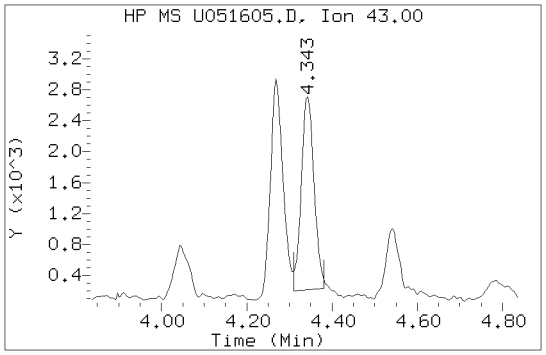
BEFORE

MASS
43
AREA
5338
HEIGHT
2498
07-Jun-2024
11:58
rucha
patel



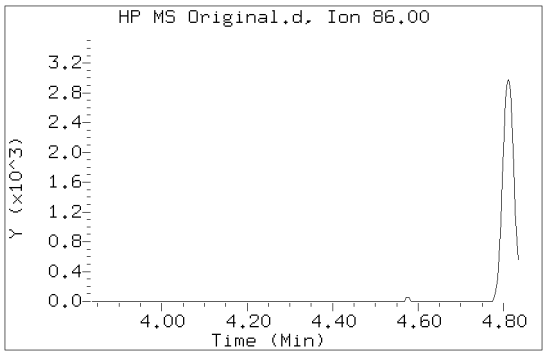
AFTER

MASS
43
AREA
5338
HEIGHT
2498
07-Jun-2024
11:58
rucha
patel



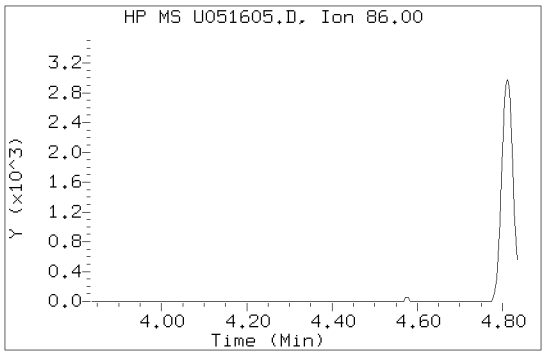
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



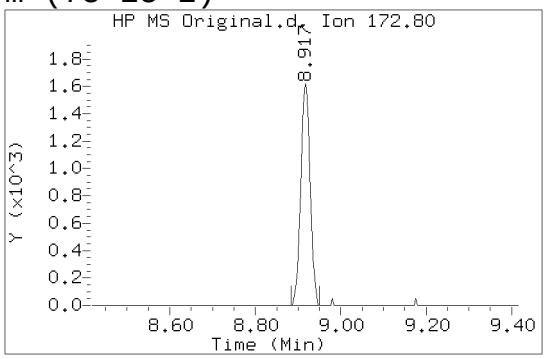
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

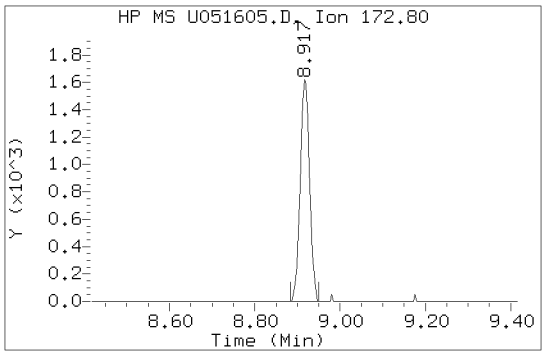
BEFORE

MASS
172.8
AREA
2518
HEIGHT
1619
07-Jun-2024
11:58
rucha
patel



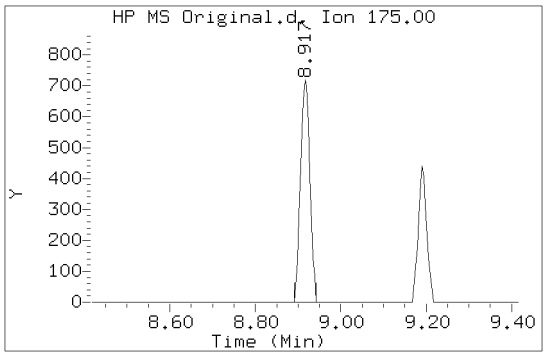
AFTER

MASS
172.8
AREA
2518
HEIGHT
1619
07-Jun-2024
11:58
rucha
patel



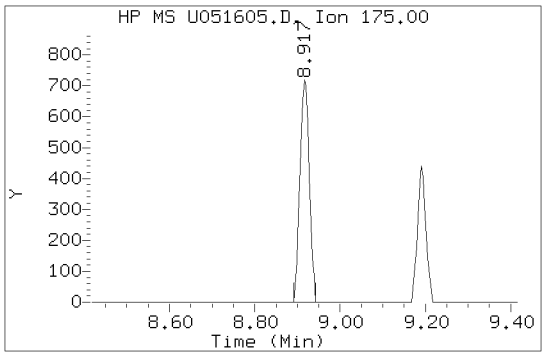
BEFORE

MASS
175
AREA
1123
HEIGHT
719
07-Jun-2024
11:58
rucha
patel



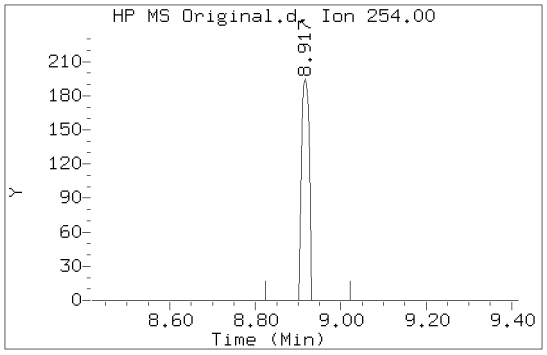
AFTER

MASS
175
AREA
1123
HEIGHT
719
07-Jun-2024
11:58
rucha
patel



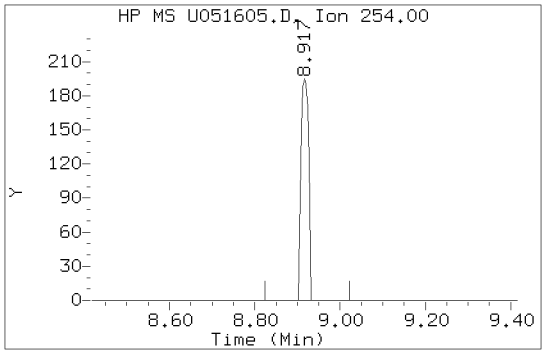
BEFORE

MASS
254
AREA
249
HEIGHT
195
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
254
AREA
249
HEIGHT
195
07-Jun-2024
11:58
rucha
patel

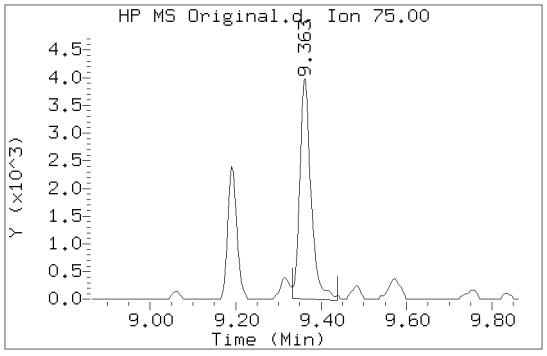


1,2,3-Trichloropropane (96-18-4)

Reason Code:

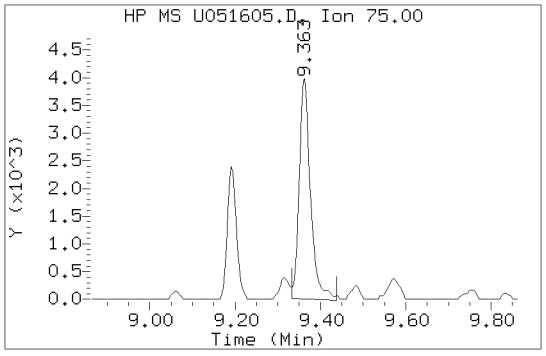
BEFORE

MASS
75
AREA
7453
HEIGHT
3976
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
75
AREA
7453
HEIGHT
3976
07-Jun-2024
11:58
rucha
patel



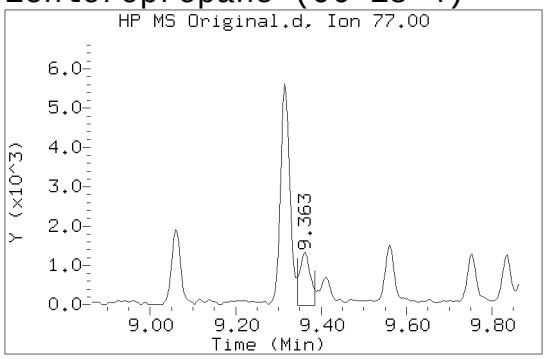
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Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

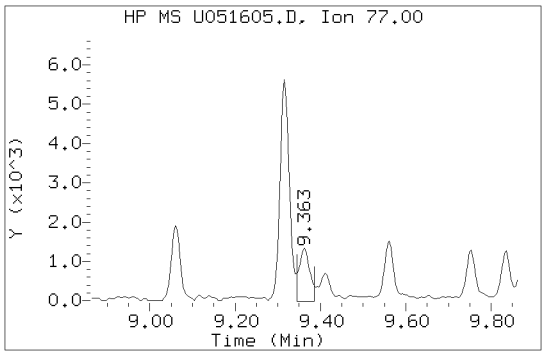
BEFORE

MASS
77
AREA
2441
HEIGHT
1349
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
77
AREA
2441
HEIGHT
1349
07-Jun-2024
11:58
rucha
patel

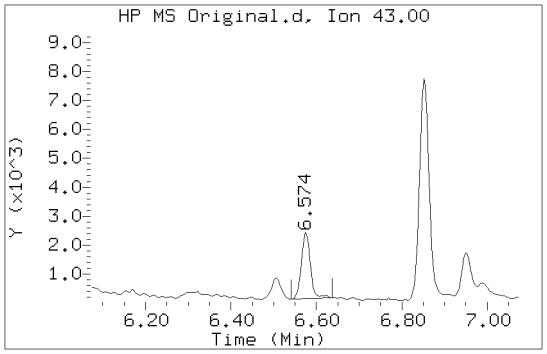


2-Nitropropane (79-46-9)

Reason Code:

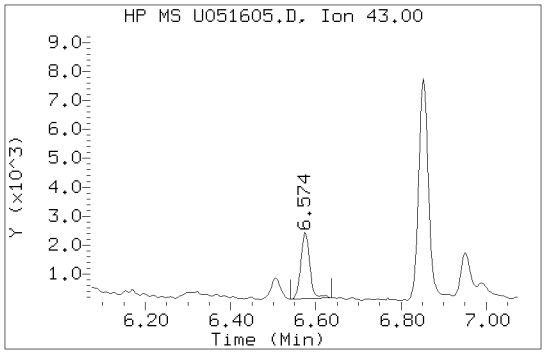
BEFORE

MASS
43
AREA
3434
HEIGHT
2295
07-Jun-2024
11:58
rucha
patel



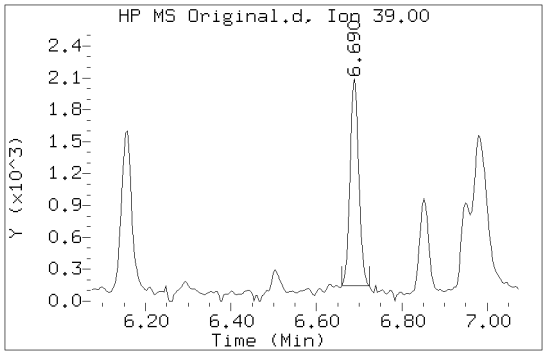
AFTER

MASS
43
AREA
3434
HEIGHT
2295
07-Jun-2024
11:58
rucha
patel



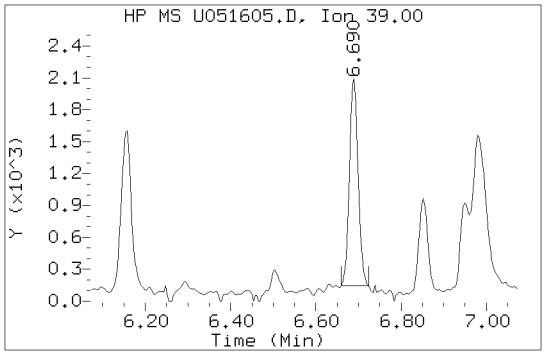
BEFORE

MASS
39
AREA
2755
HEIGHT
1944
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
39
AREA
2755
HEIGHT
1944
07-Jun-2024
11:58
rucha
patel

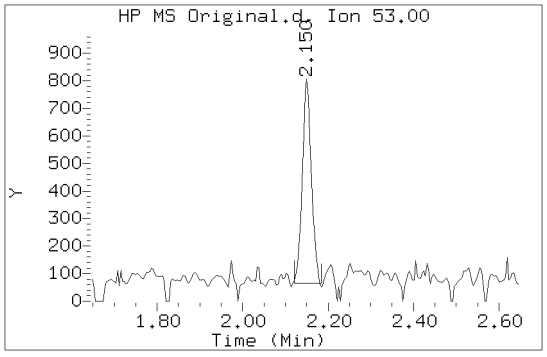


Chloroprene (126-99-8)

Reason Code:

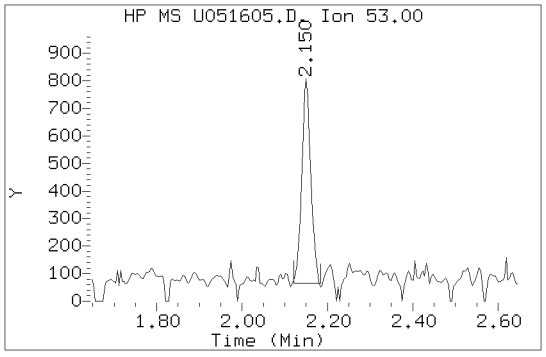
BEFORE

MASS
53
AREA
1113
HEIGHT
742
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
53
AREA
1113
HEIGHT
742
07-Jun-2024
11:58
rucha
patel



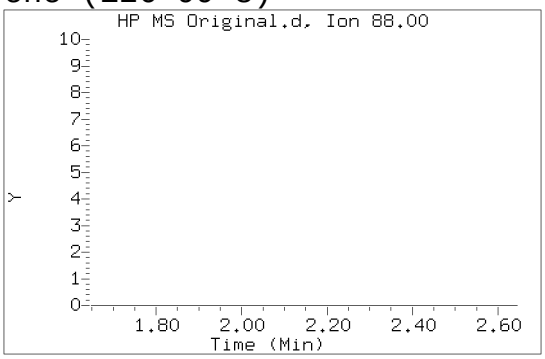
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

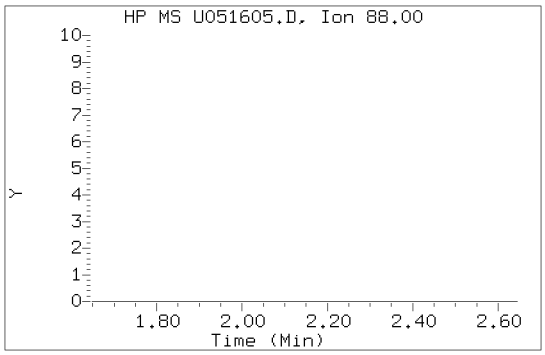
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

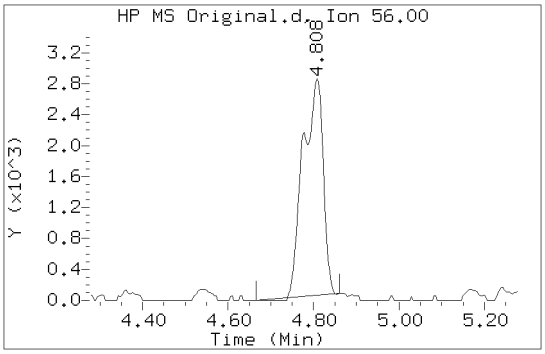


Cyclohexane (110-82-7)

Reason Code:

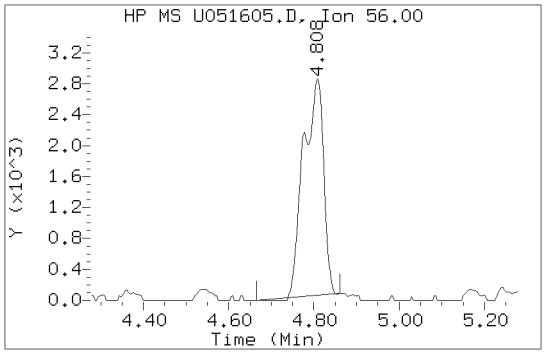
BEFORE

MASS
56
AREA
9189
HEIGHT
2801
07-Jun-2024
11:58
rucha
patel



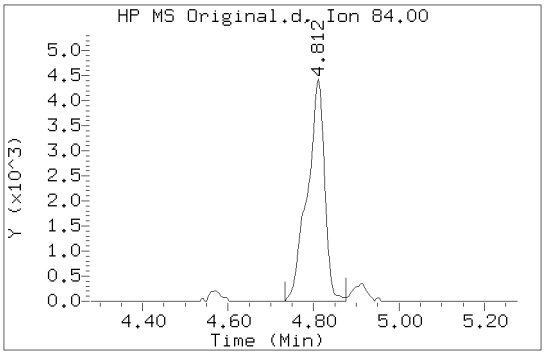
AFTER

MASS
56
AREA
9189
HEIGHT
2801
07-Jun-2024
11:58
rucha
patel



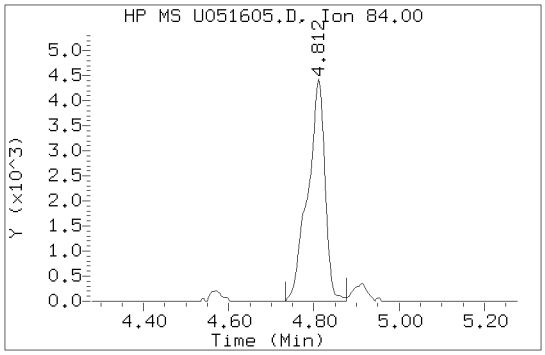
BEFORE

MASS
84
AREA
12503
HEIGHT
4436
07-Jun-2024
11:58
rucha
patel



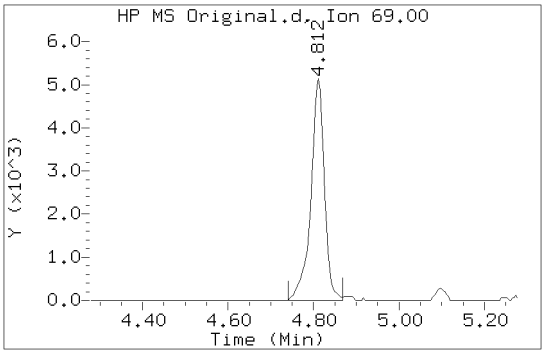
AFTER

MASS
84
AREA
12503
HEIGHT
4436
07-Jun-2024
11:58
rucha
patel



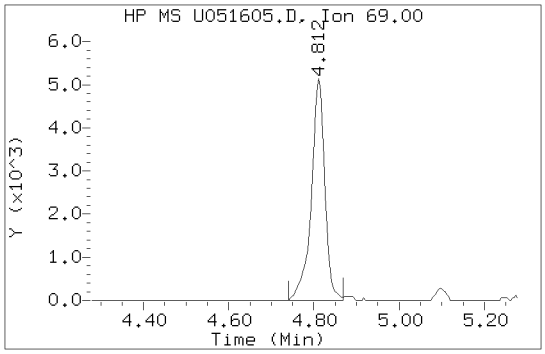
BEFORE

MASS
69
AREA
11317
HEIGHT
5139
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
69
AREA
11317
HEIGHT
5139
07-Jun-2024
11:58
rucha
patel



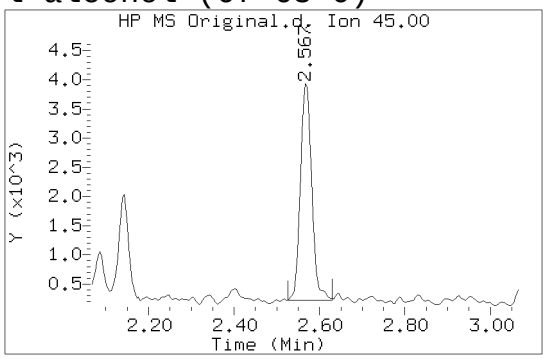
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Isopropyl alcohol (67-63-0)

Reason Code:

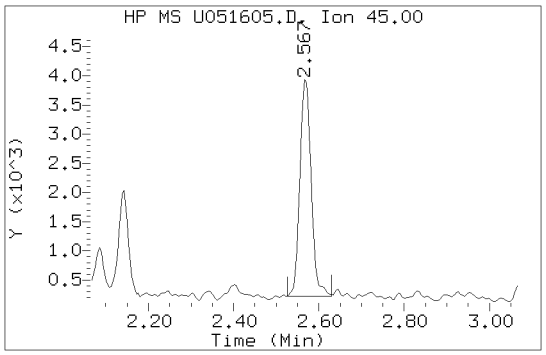
BEFORE

MASS
45
AREA
7013
HEIGHT
3711
07-Jun-2024
11:58
rucha
patel



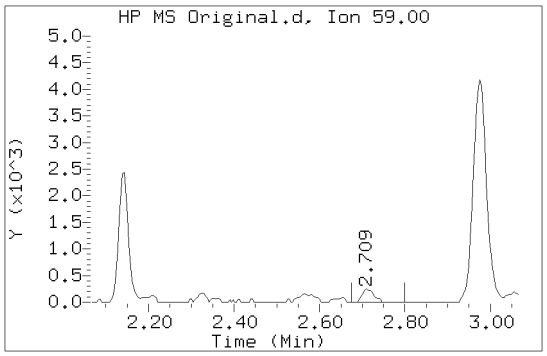
AFTER

MASS
45
AREA
7013
HEIGHT
3711
07-Jun-2024
11:58
rucha
patel



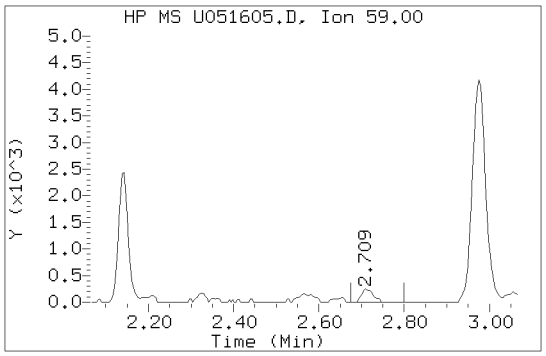
BEFORE

MASS
59
AREA
471
HEIGHT
249
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
59
AREA
471
HEIGHT
249
07-Jun-2024
11:58
rucha
patel

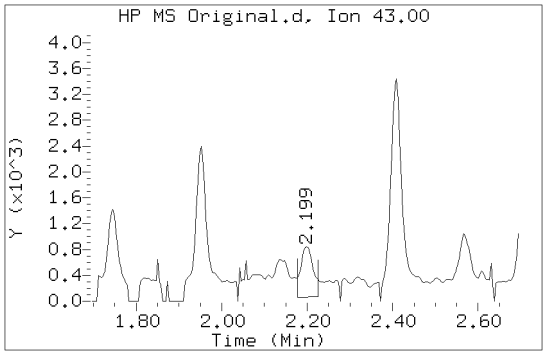


Propylene oxide ()

Reason Code:

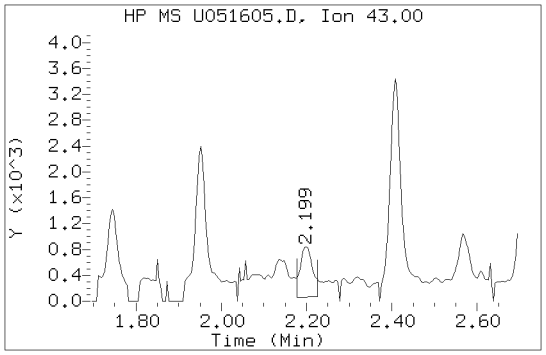
BEFORE

MASS
43
AREA
1618
HEIGHT
774
07-Jun-2024
11:58
rucha
patel



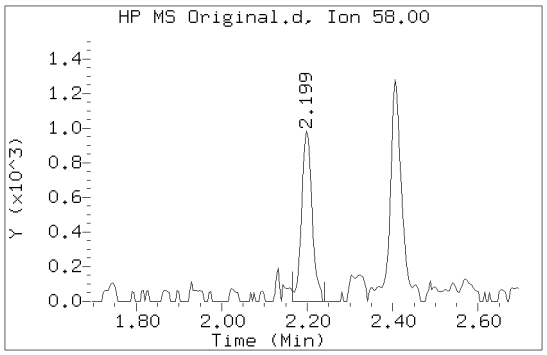
AFTER

MASS
43
AREA
1618
HEIGHT
774
07-Jun-2024
11:58
rucha
patel



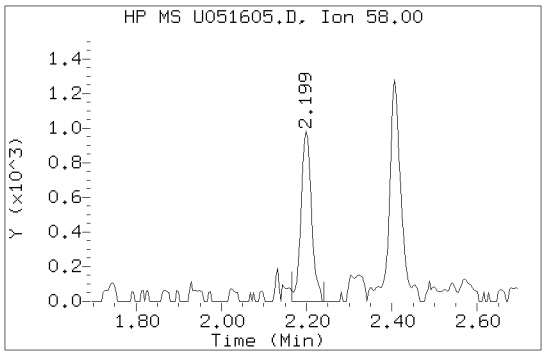
BEFORE

MASS
58
AREA
1706
HEIGHT
984
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
58
AREA
1706
HEIGHT
984
07-Jun-2024
11:58
rucha
patel



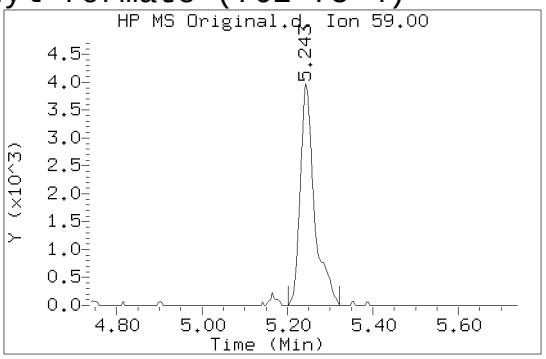
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

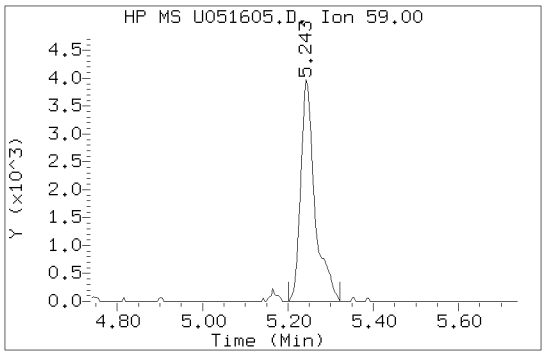
BEFORE

MASS
59
AREA
9331
HEIGHT
3973
07-Jun-2024
11:58
rucha
patel



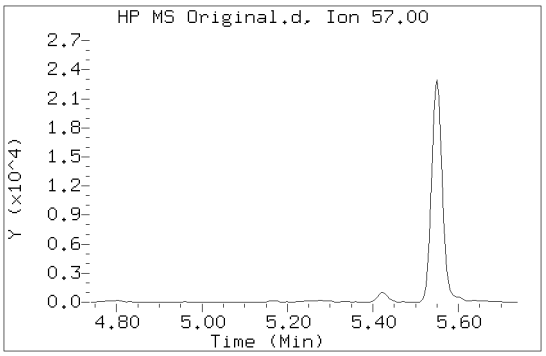
AFTER

MASS
59
AREA
9331
HEIGHT
3973
07-Jun-2024
11:58
rucha
patel



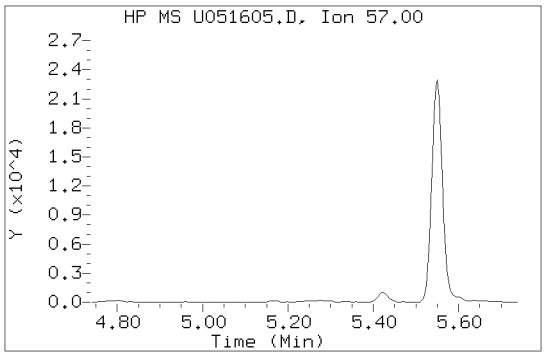
BEFORE

MASS
57
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



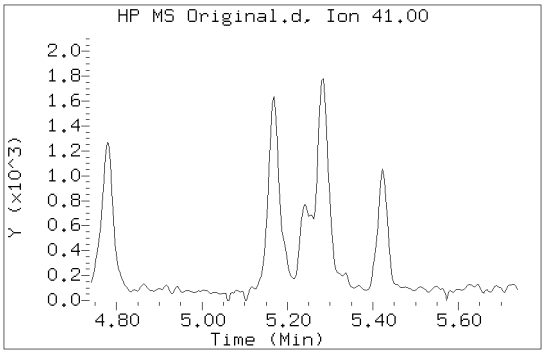
AFTER

MASS
57
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



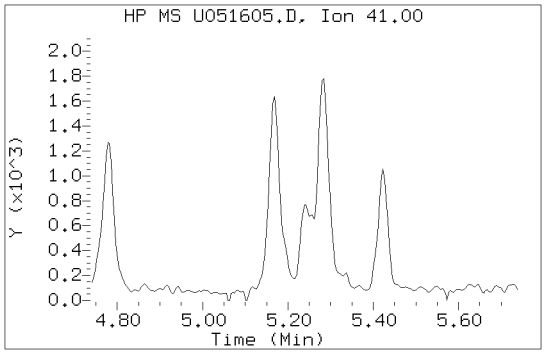
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
41
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

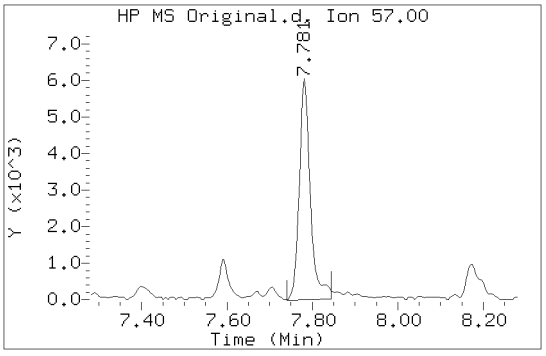


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

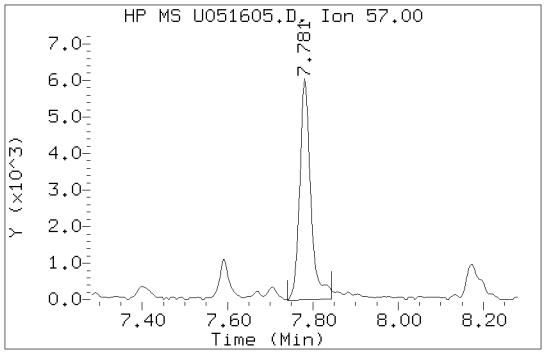
BEFORE

MASS
57
AREA
11133
HEIGHT
6048
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
57
AREA
11133
HEIGHT
6048
07-Jun-2024
11:58
rucha
patel



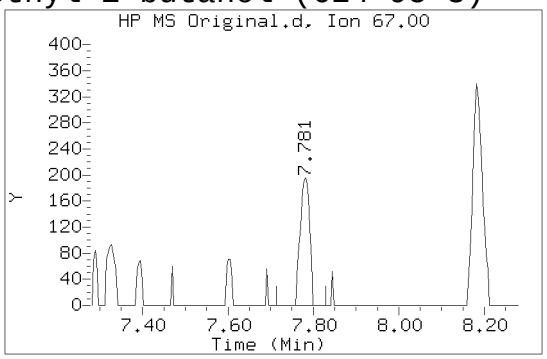
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

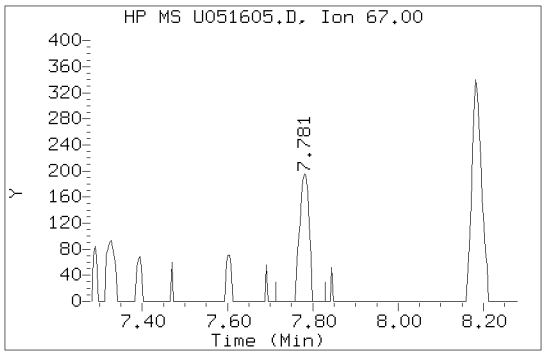
BEFORE

MASS
67
AREA
306
HEIGHT
196
07-Jun-2024
11:58
rucha
patel



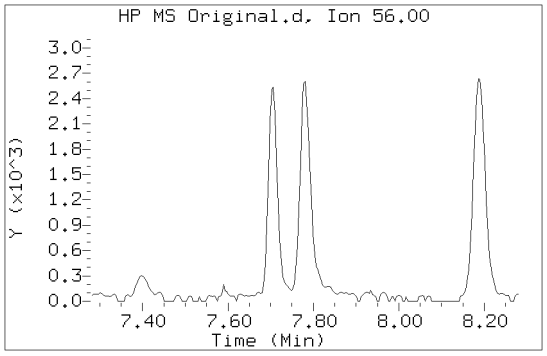
AFTER

MASS
67
AREA
306
HEIGHT
196
07-Jun-2024
11:58
rucha
patel



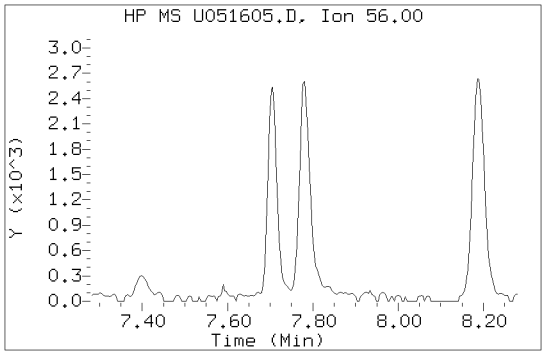
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
56
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

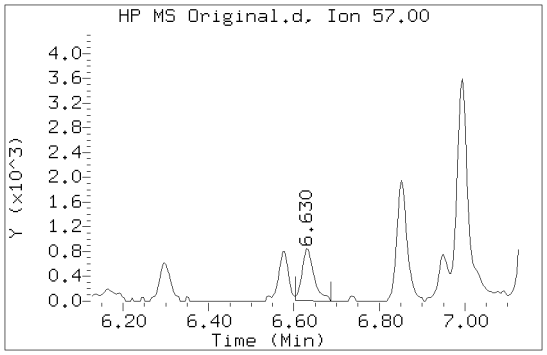


Epichlorohydrin (106-89-8)

Reason Code:

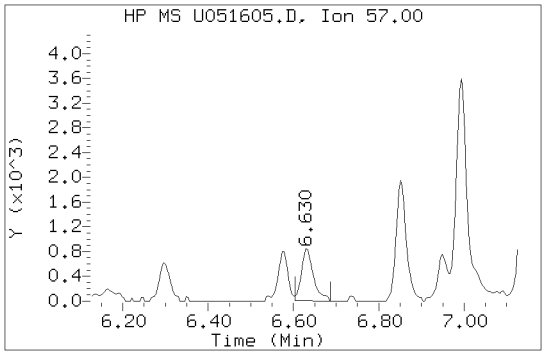
BEFORE

MASS
57
AREA
1677
HEIGHT
841
07-Jun-2024
11:58
rucha
patel



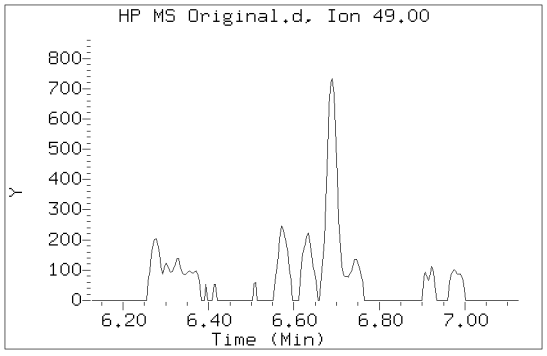
AFTER

MASS
57
AREA
1677
HEIGHT
841
07-Jun-2024
11:58
rucha
patel



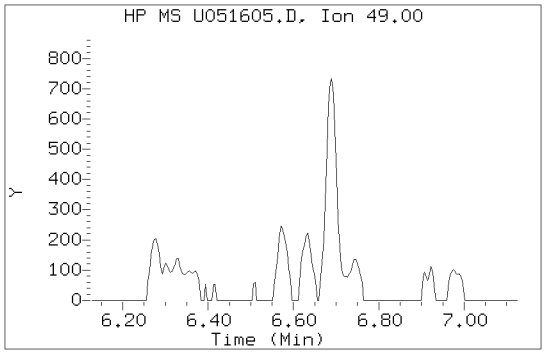
BEFORE

MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
49
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



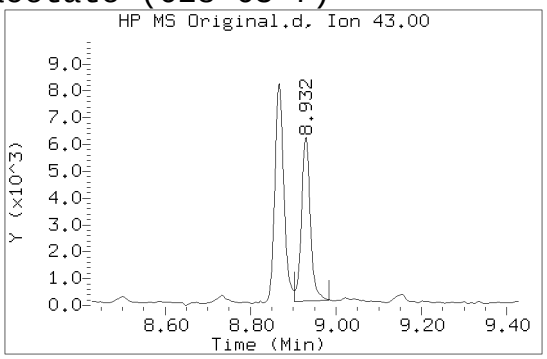
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051605.D
Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

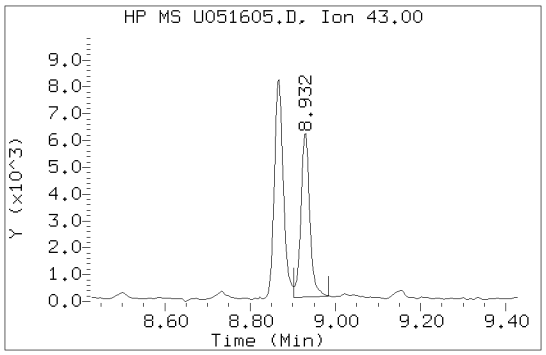
BEFORE

MASS
43
AREA
9068
HEIGHT
6095
07-Jun-2024
11:58
rucha
patel



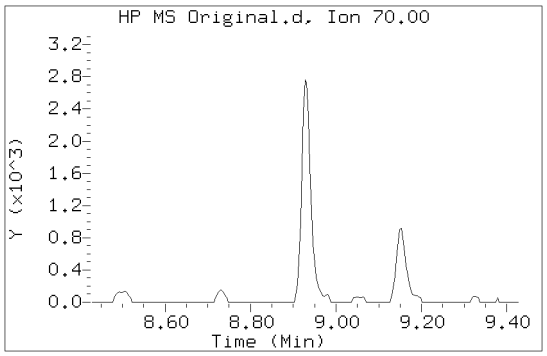
AFTER

MASS
43
AREA
9068
HEIGHT
6095
07-Jun-2024
11:58
rucha
patel



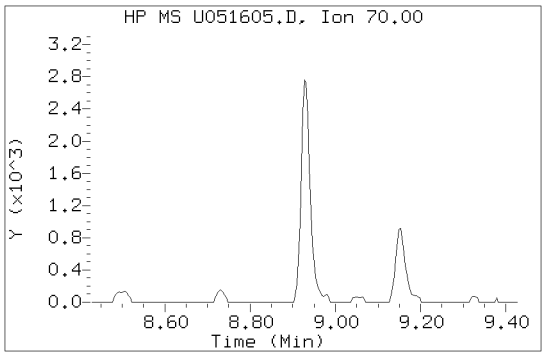
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



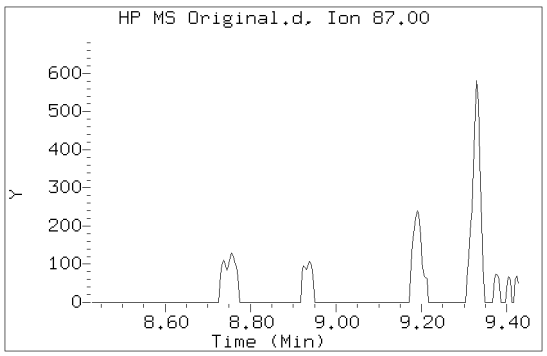
AFTER

MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



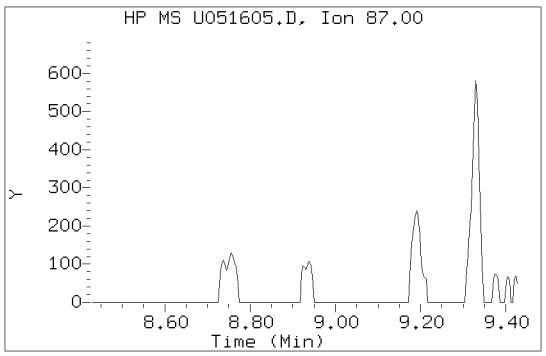
BEFORE

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

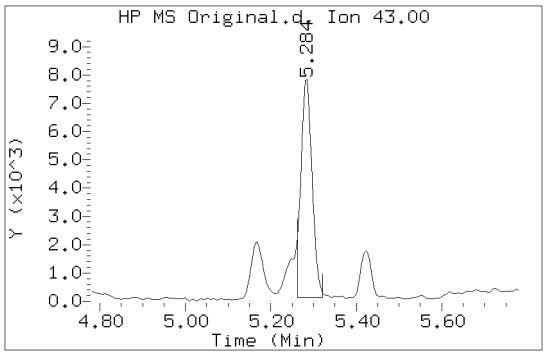


Isopropyl acetate (108-21-4)

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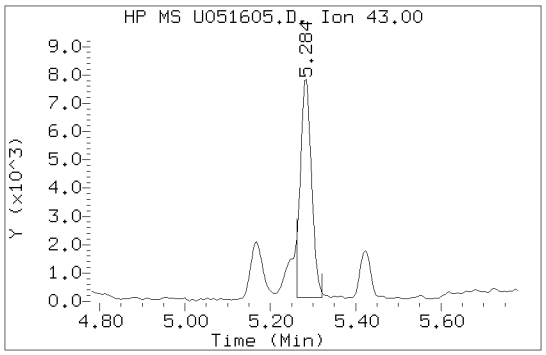
BEFORE

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07-Jun-2024
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AFTER

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rucha
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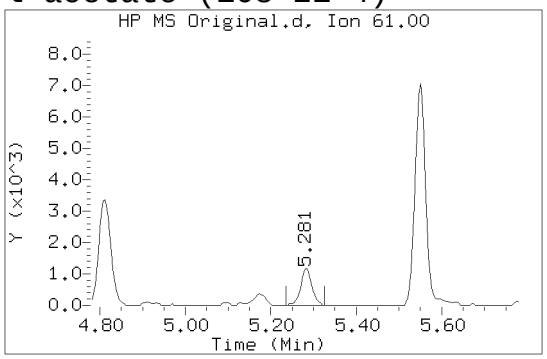
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Inj Date : 16-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : VSTD002

Isopropyl acetate (108-21-4)

Reason Code:

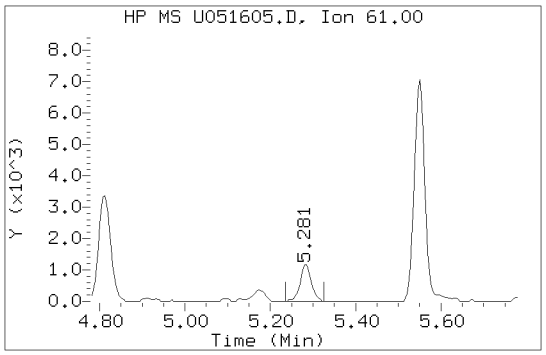
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AFTER

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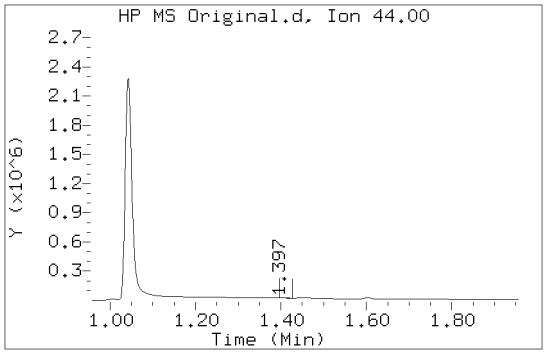


Acetaldehyde (75-07-0)

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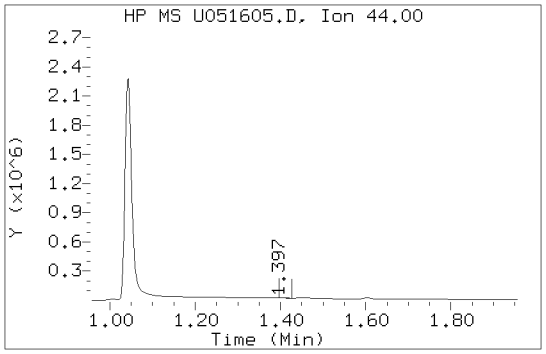
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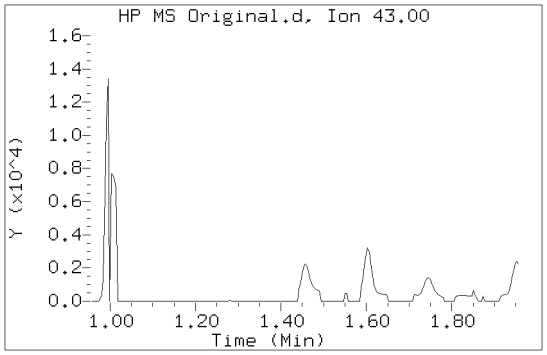
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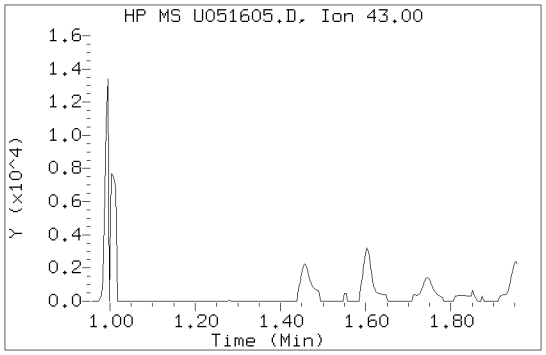
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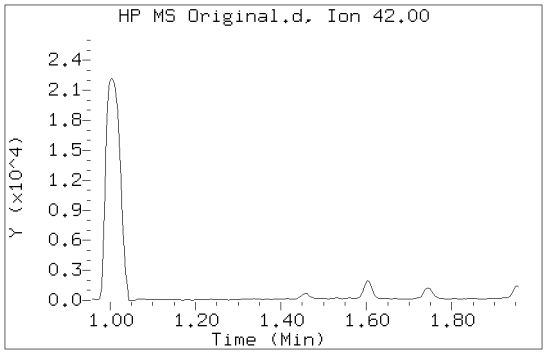
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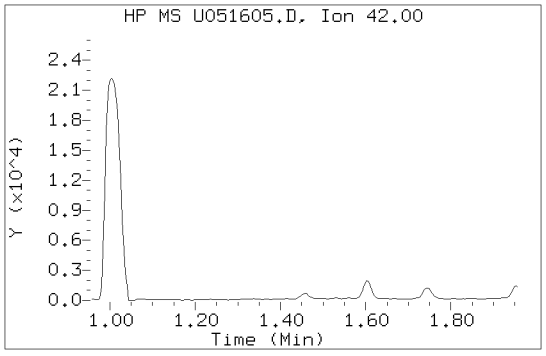
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AFTER

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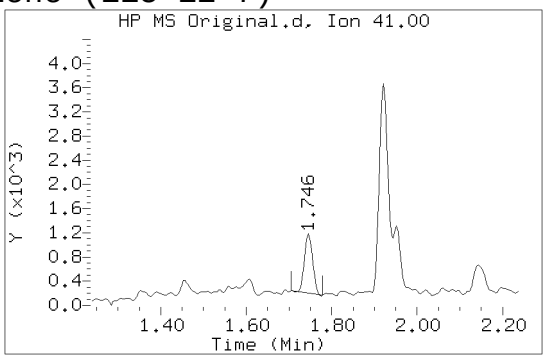


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LabSampID : VSTD002

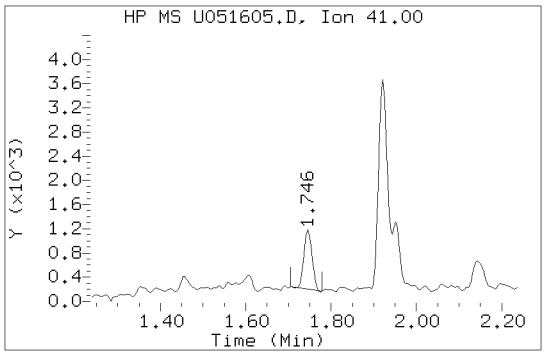
Isobutylene (115-11-7)

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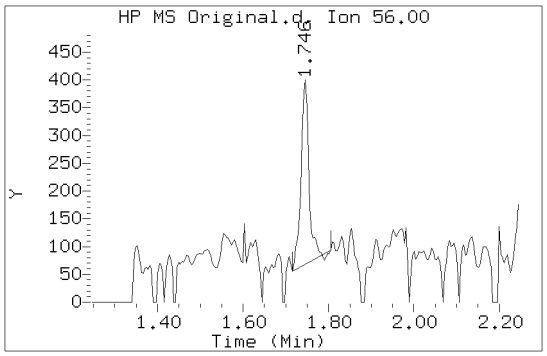
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11:58
rucha
patel



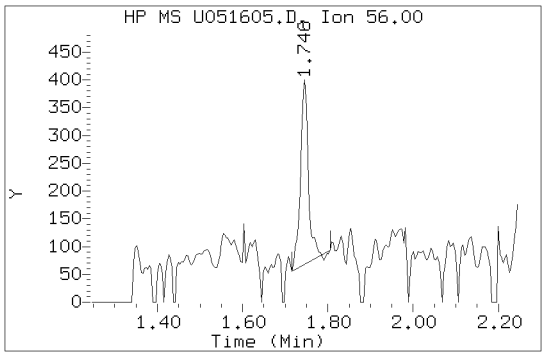
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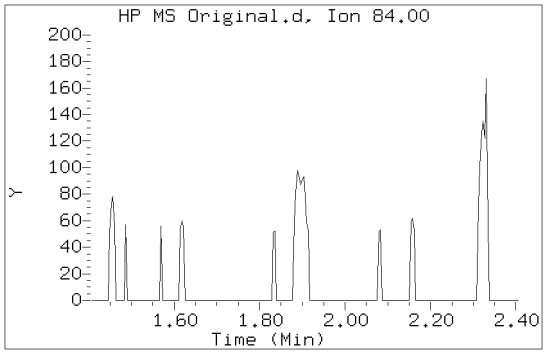
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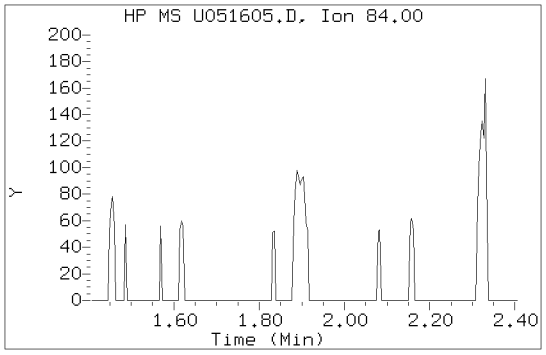
AFTER
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07-Jun-2024
11:58
rucha
patel



BEFORE
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0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER
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84
AREA
0
HEIGHT
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07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051606.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051606.D
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Inj Date : 16-MAY-2024 13:45
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\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 13:23 Cal File: U051605.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.819	4.819	(1.000)	311633	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	8602	5.00000	5.56
3	Chloromethane	50	1.306	1.306	(0.271)	69341	5.00000	5.07
4	Propionitrile	54	4.347	4.347	(0.902)	18439	50.0000	47.85(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	13286	5.00000	5.35
6	Bromomethane	94	1.625	1.625	(0.337)	6262	5.00000	6.55
7	Chloroethane	64	1.708	1.708	(0.354)	8448	5.00000	5.50(M)
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	14893	5.00000	5.38
9	Acrolein	56	2.270	2.270	(0.471)	1010	10.0000	7.90(a)
10	Acetone	43	2.420	2.420	(0.502)	11589	10.0000	8.40
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	9875	5.00000	5.61
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	40757	100.000	103.48(a)
13	Acetonitrile	39	2.679	2.679	(0.556)	12745	50.0000	50.20(a)
14	Allyl Chloride	41	2.682	2.682	(0.557)	30775	5.00000	4.86(a)
15	Iodomethane	142	2.472	2.472	(0.513)	2386	10.0000	9.44(T)
16	Acrylonitrile	53	3.076	3.076	(0.638)	9525	10.0000	9.25
17	Methylene Chloride	84	2.802	2.802	(0.582)	15828	5.00000	5.22
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	30878	5.00000	4.80
19	Carbon Disulfide	76	2.525	2.525	(0.524)	55391	10.0000	10.35
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	10884	5.00000	5.20

21 Vinyl Acetate	43	4.350	4.350 (0.903)	12722	10.0000	9.36(M)
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	19790	5.00000	5.13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.161	2.161	(0.449)	3864	5.00000	5.60(M)
	24 2-Butanone	43	4.275	4.275	(0.887)	13239	10.0000	9.47
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	7144	5.00000	4.57(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	15832	5.00000	5.34
	27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	12928	5.00000	5.12
	28 Chloroform	83	4.575	4.575	(0.949)	19661	5.00000	5.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	6207	5.00000	4.99
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	10210	5.00000	5.01
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	15490	5.00000	5.17
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	14872	5.00000	5.33
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	15901	5.00000	5.10
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	10595	5.00000	4.99(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	13121	5.00000	5.35
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	457518	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	47587	5.00000	5.14
	38 Trichloroethene	130	5.790	5.790	(1.043)	11927	5.00000	5.31
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	12910	5.00000	4.77(a)
	40 Methyl Methacrylate	41	5.831	5.831	(1.210)	4474	5.00000	4.79(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	13324	10.0000	8.82
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	12819	5.00000	5.14(M)
	43 2-Nitropropane	43	6.577	6.577	(1.365)	7894	5.00000	4.44(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	7191	5.00000	4.83(a)
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.838)	28831	10.0000	9.76
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	16328	5.00000	4.66(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	410543	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	40873	5.00000	5.24
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	15340	5.00000	4.91(a)
	50 Toluene	91	6.978	6.978	(0.853)	50821	5.00000	5.23
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	13798	5.00000	4.76(a)
	52 2-Hexanone	43	7.589	7.589	(0.928)	20152	10.0000	9.94
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	9348	5.00000	5.03
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	20671	5.00000	5.03
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	9049	5.00000	5.15
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	9348	5.00000	5.59
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	10899	5.00000	5.03
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	14162	5.00000	5.30
	59 Chlorobenzene	112	8.208	8.208	(1.003)	32694	5.00000	5.14
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	10029	5.00000	4.82(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	15974	5.00000	5.20
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	40767	10.0000	10.53
	63 o-Xylene	106	8.744	8.744	(1.069)	20048	5.00000	5.17
	64 Styrene	104	8.759	8.759	(1.071)	34794	5.00000	5.18
	66 Bromoform	173	8.916	8.916	(1.090)	6063	5.00000	4.51(aM)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	48842	5.00000	5.29
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	16329	5.00000	5.01
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	15561	5.00000	5.18
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	220469	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	17205	5.00000	4.95(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	3772	5.00000	4.87(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	56096	5.00000	5.25
	74 Bromobenzene	156	9.317	9.317	(0.916)	13744	5.00000	5.09
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	40120	5.00000	5.01

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	35579	5.00000	5.14
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	41012	5.00000	5.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	34662	5.00000	5.43
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	46212	5.00000	5.23
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	46627	5.00000	5.38
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	41424	5.00000	5.23
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	25789	5.00000	4.98(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	25789	5.00000	4.98(a)
86	Benzyl Chloride	91	10.307	10.307	(1.260)	186522	5.00000	2.61(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	49020	5.00000	5.14
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	24040	5.00000	5.01
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	2158	5.00000	4.47(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	16092	5.00000	4.86(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	6272	5.00000	4.80(a)
92	Naphthalene	128	12.065	12.065	(1.187)	39174	5.00000	4.84(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	14067	5.00000	4.85(a)
146	Methyl acetate	43	2.724	2.724	(0.565)	11406	5.00000	4.82(a)
138	Freon TF	101	2.341	2.341	(0.486)	17693	5.00000	5.64
141	Cyclohexane	56	4.785	4.785	(0.993)	21126	5.00000	5.32
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	4362	10.0000	8.79
147	Methylcyclohexane	55	5.947	5.947	(1.071)	26495	5.00000	4.85(a)
135	1,4-Dioxane	88	6.172	6.172	(1.281)	2850	100.000	93.47
132	n-Butanol	56	5.831	5.831	(1.210)	6683	100.000	93.80(a)
136	n-Hexane	57	3.346	3.346	(0.694)	11793	5.00000	5.29
139	Diethyl ether	59	2.154	2.154	(0.447)	8654	5.00000	4.86(a)
148	Tert-butyl alcohol	59	2.986	2.986	(0.620)	21094	100.000	103.50
149	Isopropyl alcohol	45	2.581	2.581	(0.536)	15269	100.000	96.30(M)
152	Amyl alcohol	42	7.402	7.402	(0.905)	7221	100.000	99.01
156	Diisopropyl ether	45	3.631	3.631	(0.753)	35648	5.00000	4.71(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	22432	5.00000	4.44(a)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	23770	5.00000	4.98(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	49929	5.00000	4.68(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	35914	5.00000	4.77(a)
167	Ethanol	45	2.097	2.097	(0.435)	2691	100.000	97.00
172	tert-Butyl formate	59	5.246	5.246	(1.089)	23305	10.0000	10.18
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	28419	100.000	100.82
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	34948	5.00000	4.73(a)
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.842)	34238	5.00000	4.82(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	23305	100.000	103.77
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	78424	100.000	96.92
140	1,3-Butadiene	54	1.411	1.411	(0.293)	6107	5.00000	5.43
182	Epichlorohydrin	57	6.633	6.633	(1.194)	3885	20.0000	19.27
M 94	1,2-Dichloroethylene (total)	96				23812	10.0000	(a)
130	Ethyl Acetate	43	4.350	4.350	(0.903)	13905	5.00000	5.13
131	Methyl Acrylate	55	4.377	4.377	(0.908)	14556	5.00000	4.67(a)
189	n-Butyl acetate	43	7.706	7.706	(0.942)	21930	5.00000	4.88(a)
134	Cyclohexanone	55	9.153	9.153	(0.900)	13669	100.000	99.65(a)
185	Isoprene	39	2.165	2.165	(0.449)	2858	5.00000	5.32
188	Isopropyl acetate	43	5.288	5.288	(0.952)	40757	5.00000	5.41
150	Allyl alcohol	57	3.346	3.346	(0.694)	11793	100.000	105.91
194	Acetaldehyde	44	1.468	1.468	(0.305)	6165	20.0000	15.78(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	29267	5.00000	4.96(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	6025	5.00000	5.34
202	Isobutylene	41	1.756	1.756	(0.365)	4785	5.00000	5.43(M)

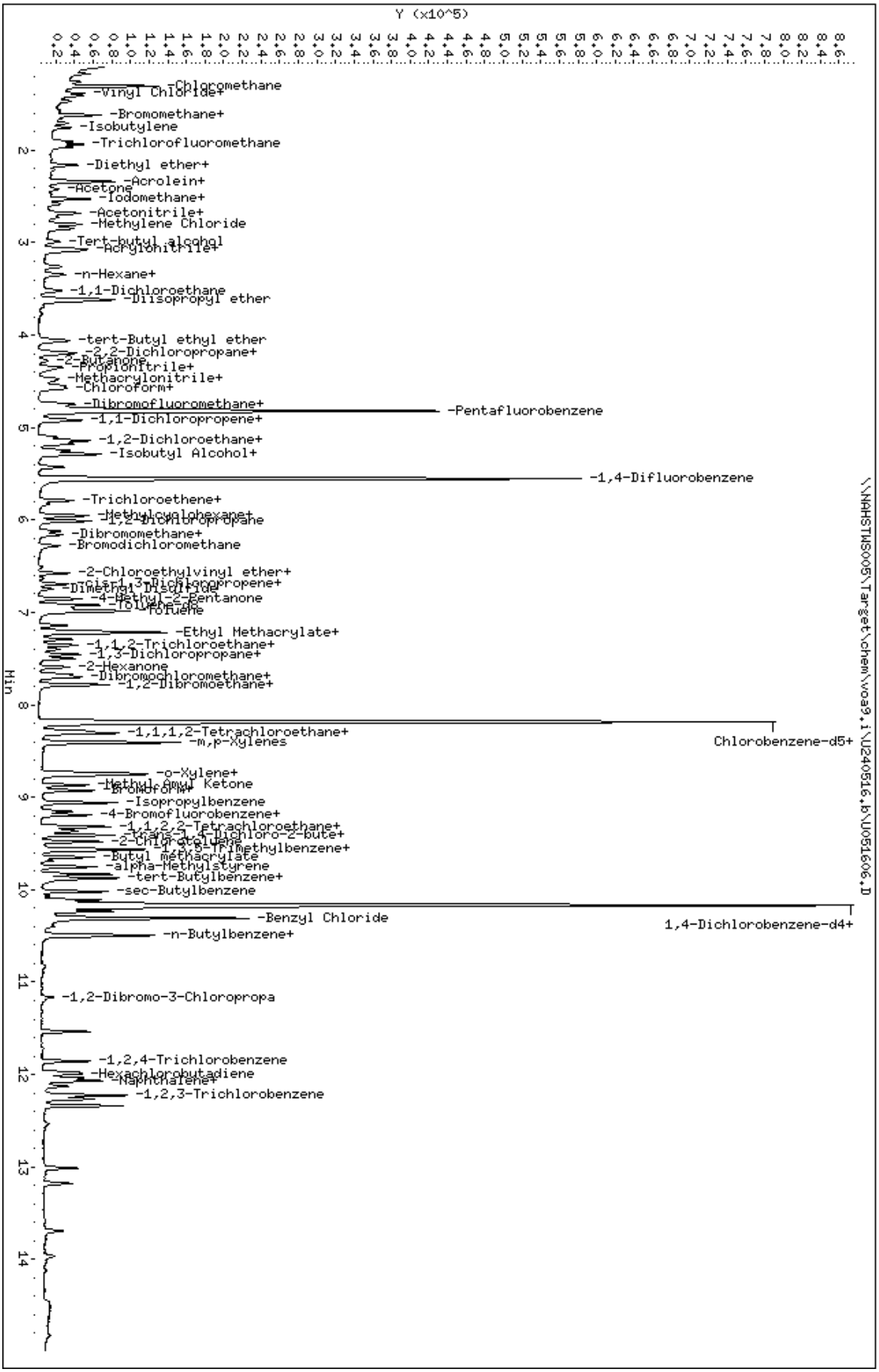
133 Ethyl Acrylate	55	5.947	5.947 (1.234)	27112	5.00000	4.89(a)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	14337	5.00000	4.72(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051606.D Page 4
Report Date: 07-Jun-2024 11:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.210	2.210	(0.459)	2025	10.0000	6.98
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	14217	5.00000	4.64(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\voa9,i\U240516,b\U051606,D
Date : 16-MAY-2024 13:45
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

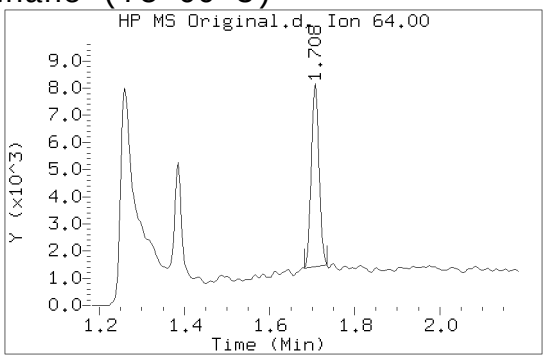
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

Chloroethane (75-00-3)

Reason Code:

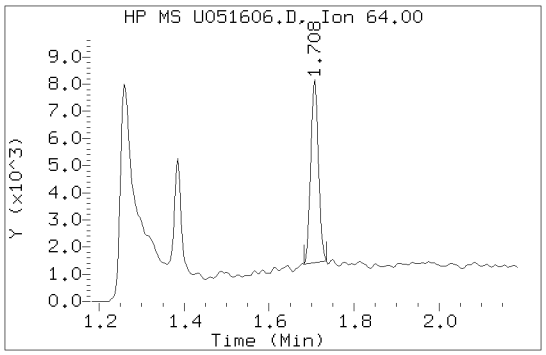
BEFORE

MASS
64
AREA
8448
HEIGHT
6733
07-Jun-2024
11:58
rucha
patel



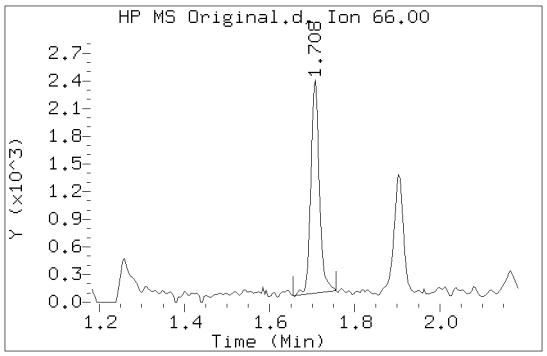
AFTER

MASS
64
AREA
8448
HEIGHT
6733
07-Jun-2024
11:58
rucha
patel



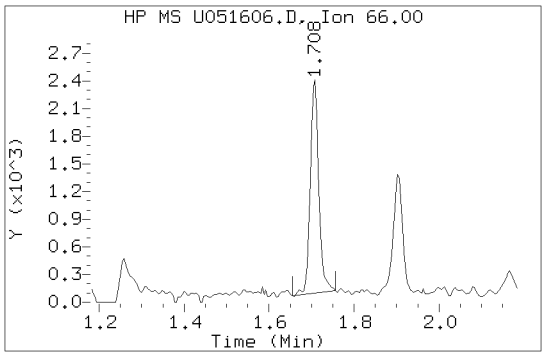
BEFORE

MASS
66
AREA
3206
HEIGHT
2312
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
66
AREA
3206
HEIGHT
2312
07-Jun-2024
11:58
rucha
patel

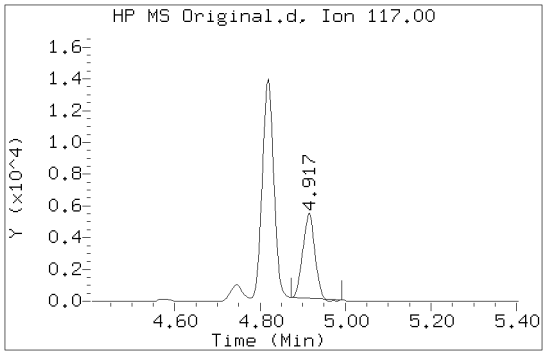


Carbon Tetrachloride (56-23-5)

Reason Code:

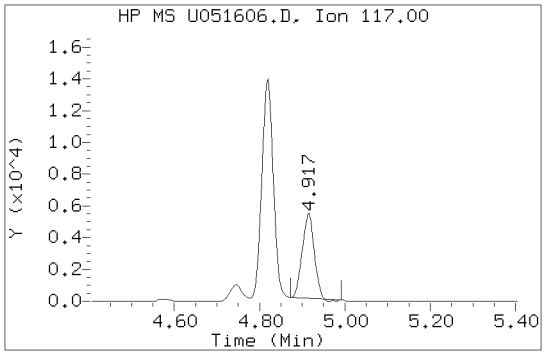
BEFORE

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AREA
10595
HEIGHT
5370
07-Jun-2024
11:58
rucha
patel



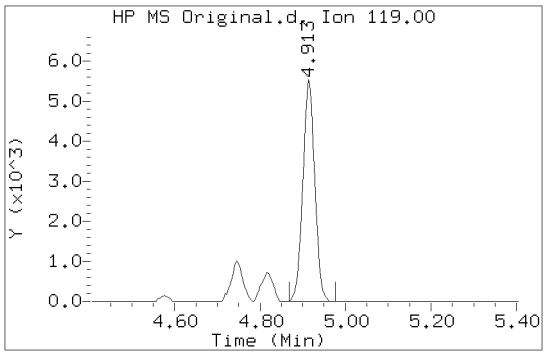
AFTER

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10595
HEIGHT
5370
07-Jun-2024
11:58
rucha
patel



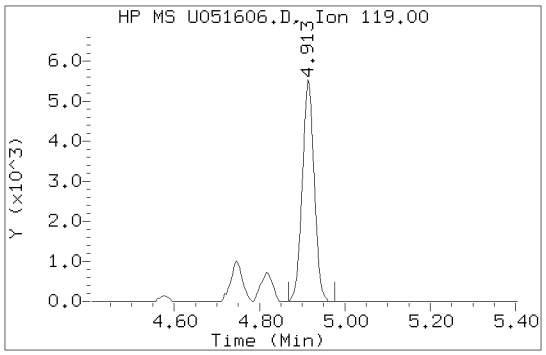
BEFORE

MASS
119
AREA
10945
HEIGHT
5537
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
119
AREA
10945
HEIGHT
5537
07-Jun-2024
11:58
rucha
patel



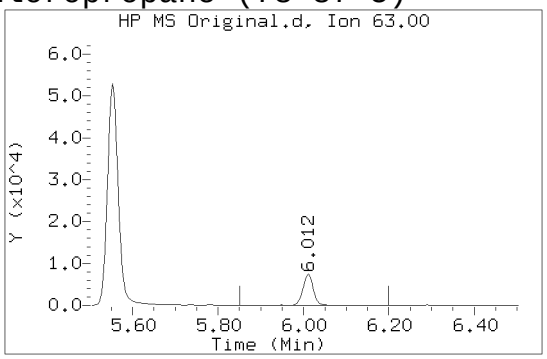
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

1,2-Dichloropropane (78-87-5)

Reason Code:

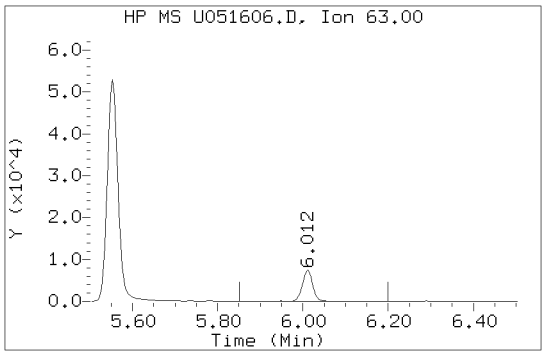
BEFORE

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AREA
12819
HEIGHT
7447
07-Jun-2024
11:58
rucha
patel



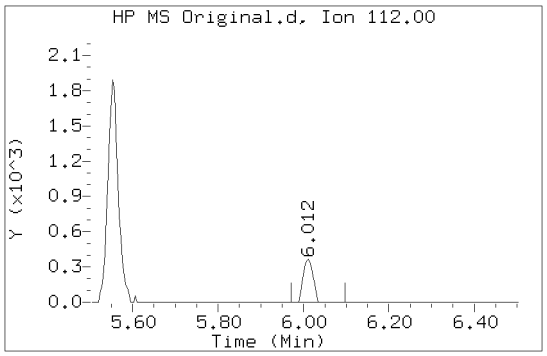
AFTER

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AREA
12819
HEIGHT
7447
07-Jun-2024
11:58
rucha
patel



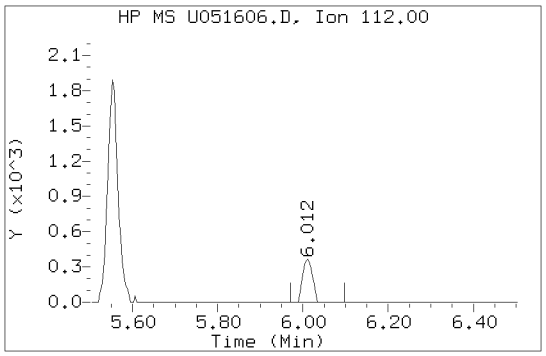
BEFORE

MASS
112
AREA
598
HEIGHT
365
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
112
AREA
598
HEIGHT
365
07-Jun-2024
11:58
rucha
patel

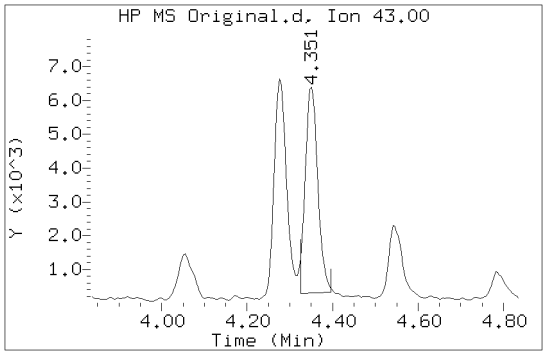


Vinyl Acetate (108-05-4)

Reason Code:

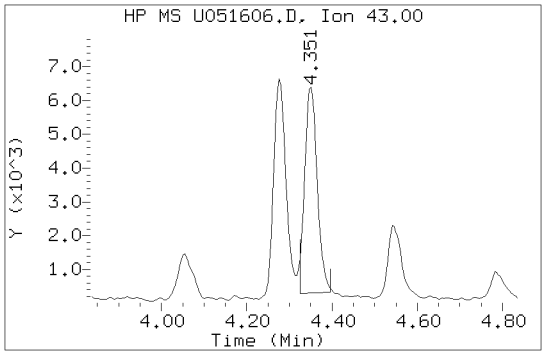
BEFORE

MASS
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AREA
12722
HEIGHT
6100
07-Jun-2024
11:58
rucha
patel



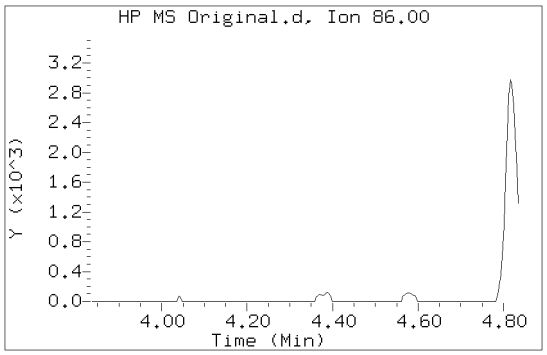
AFTER

MASS
43
AREA
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HEIGHT
6100
07-Jun-2024
11:58
rucha
patel



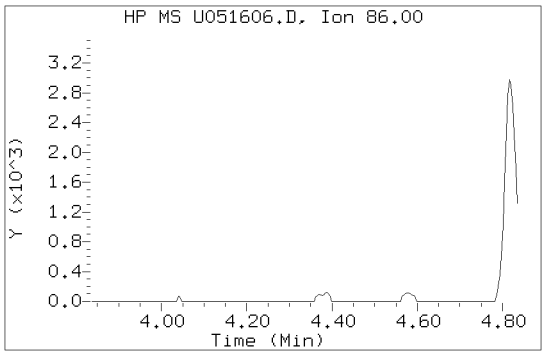
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



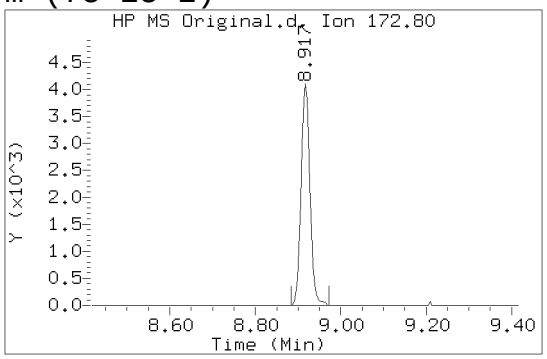
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

Bromoform (75-25-2)

Reason Code:

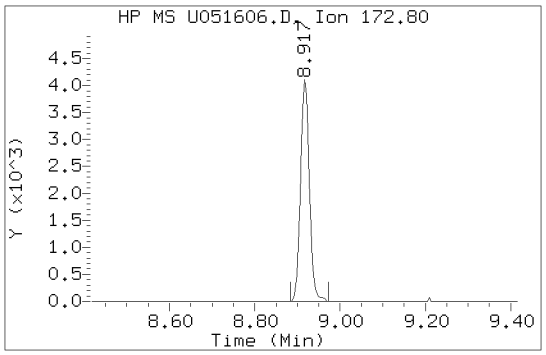
BEFORE

MASS
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AREA
6063
HEIGHT
4107
07-Jun-2024
11:58
rucha
patel



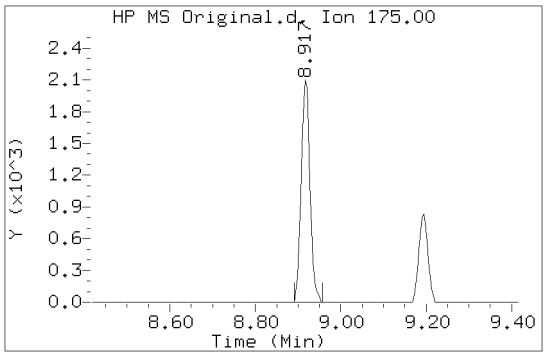
AFTER

MASS
172.8
AREA
6063
HEIGHT
4107
07-Jun-2024
11:58
rucha
patel



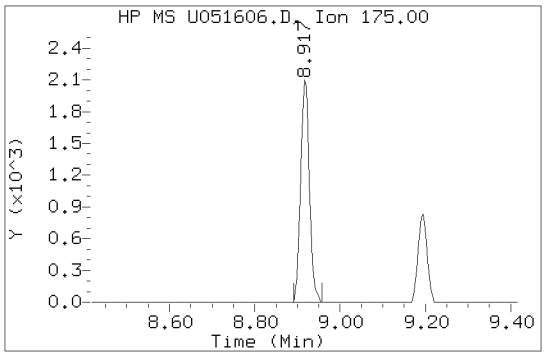
BEFORE

MASS
175
AREA
3068
HEIGHT
2100
07-Jun-2024
11:58
rucha
patel



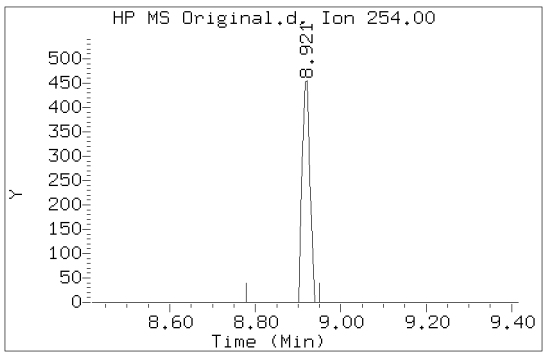
AFTER

MASS
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AREA
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HEIGHT
2100
07-Jun-2024
11:58
rucha
patel



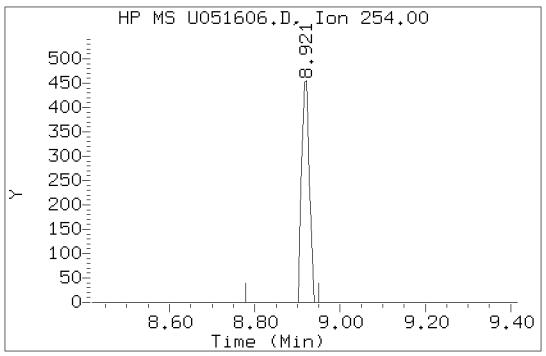
BEFORE

MASS
254
AREA
593
HEIGHT
455
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
254
AREA
593
HEIGHT
455
07-Jun-2024
11:58
rucha
patel

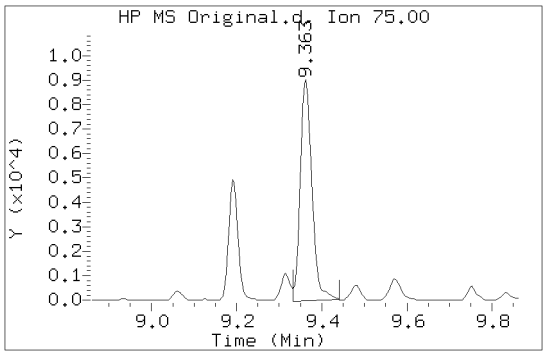


1,2,3-Trichloropropane (96-18-4)

Reason Code:

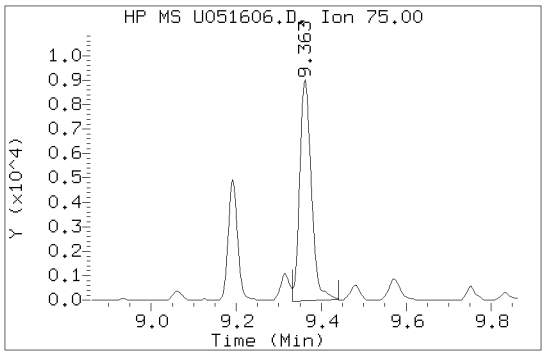
BEFORE

MASS
75
AREA
17205
HEIGHT
9044
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
75
AREA
17205
HEIGHT
9044
07-Jun-2024
11:58
rucha
patel



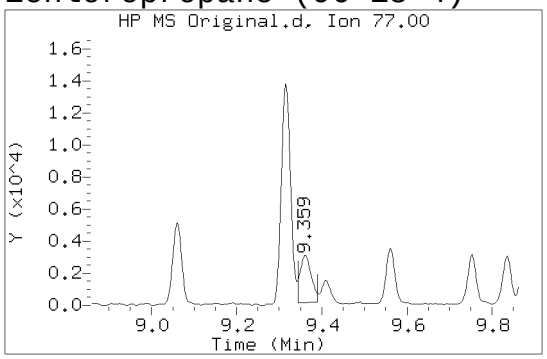
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

1,2,3-Trichloropropane (96-18-4)

Reason Code:

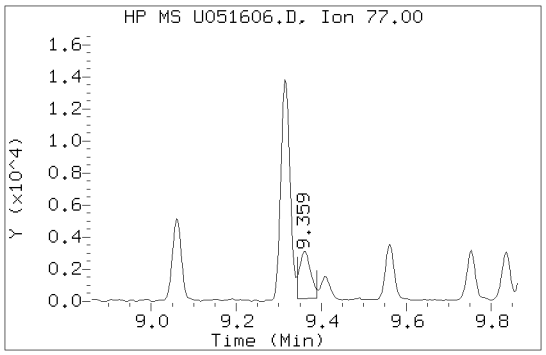
BEFORE

MASS
77
AREA
5405
HEIGHT
2919
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
77
AREA
5405
HEIGHT
2919
07-Jun-2024
11:58
rucha
patel

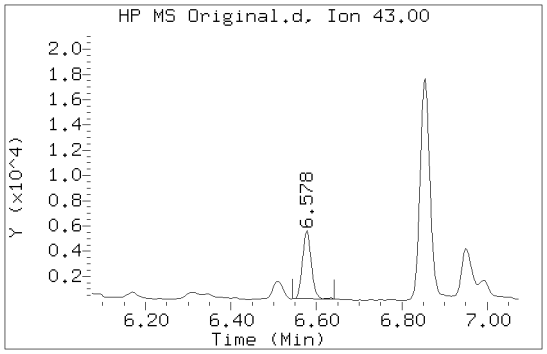


2-Nitropropane (79-46-9)

Reason Code:

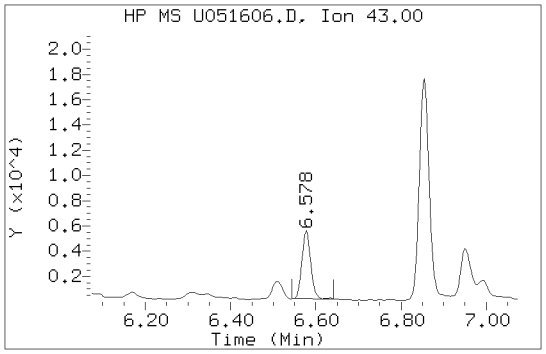
BEFORE

MASS
43
AREA
7894
HEIGHT
5387
07-Jun-2024
11:58
rucha
patel



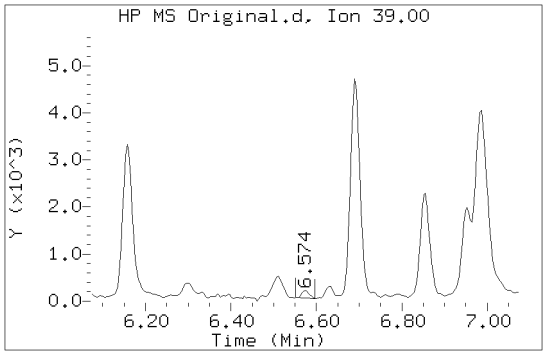
AFTER

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AREA
7894
HEIGHT
5387
07-Jun-2024
11:58
rucha
patel



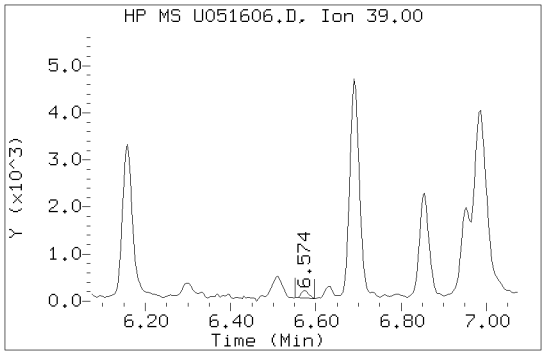
BEFORE

MASS
39
AREA
199
HEIGHT
165
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
39
AREA
199
HEIGHT
165
07-Jun-2024
11:58
rucha
patel

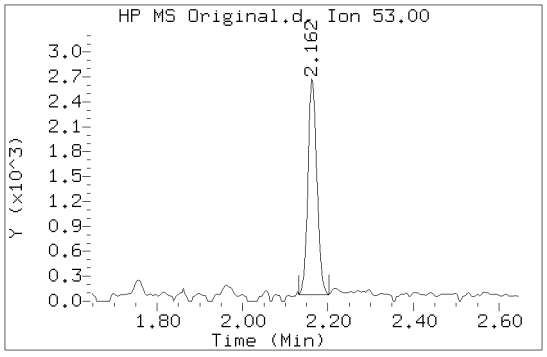


Chloroprene (126-99-8)

Reason Code:

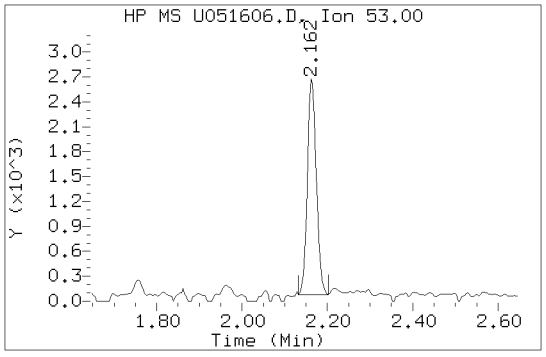
BEFORE

MASS
53
AREA
3864
HEIGHT
2601
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
53
AREA
3864
HEIGHT
2601
07-Jun-2024
11:58
rucha
patel



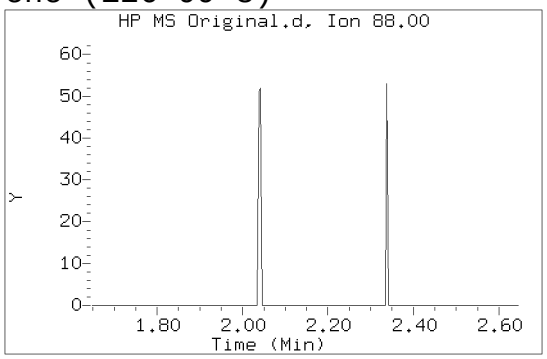
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

Chloroprene (126-99-8)

Reason Code:

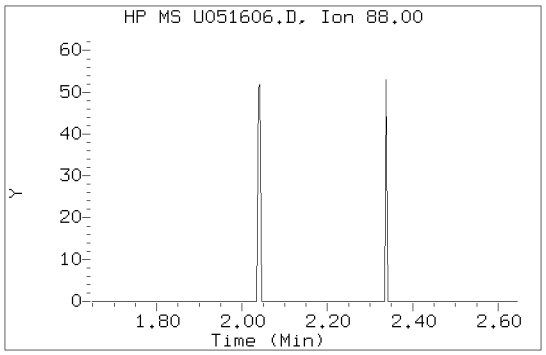
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

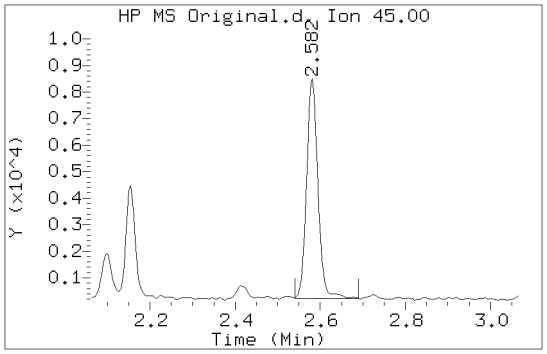


Isopropyl alcohol (67-63-0)

Reason Code:

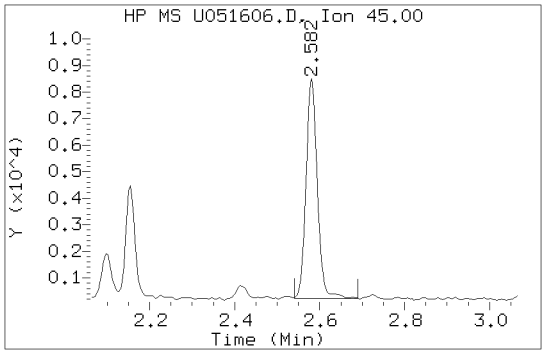
BEFORE

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45
AREA
15269
HEIGHT
8284
07-Jun-2024
11:58
rucha
patel



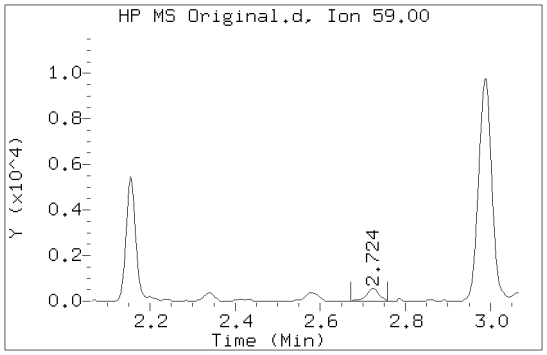
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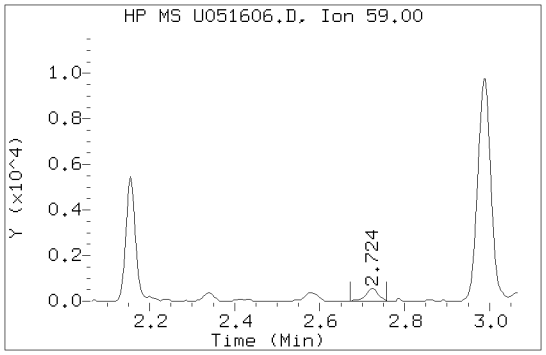
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HEIGHT
568
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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07-Jun-2024
11:58
rucha
patel

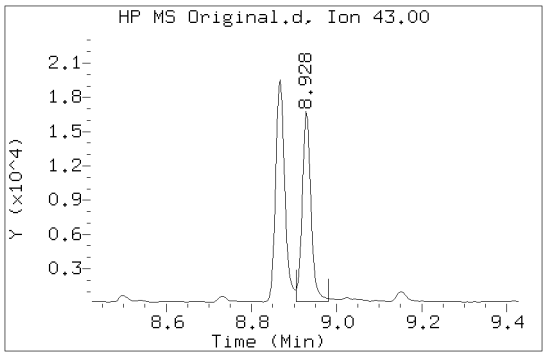


n-Amyl acetate (628-63-7)

Reason Code:

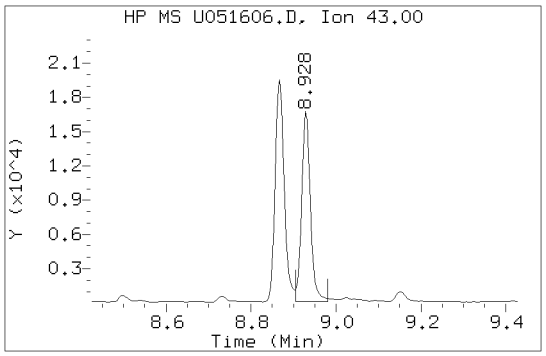
BEFORE

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AREA
23770
HEIGHT
16670
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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HEIGHT
16670
07-Jun-2024
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rucha
patel

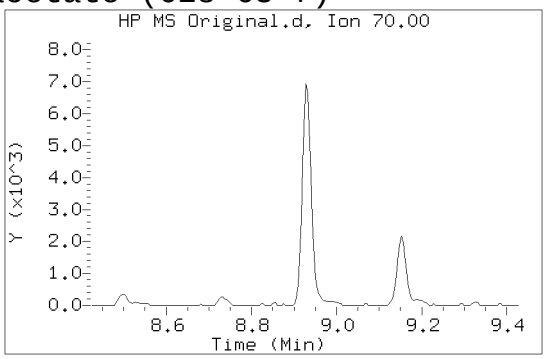


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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

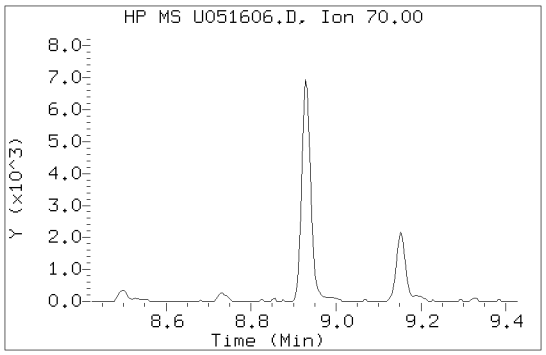
n-Amyl acetate (628-63-7)

Reason Code:

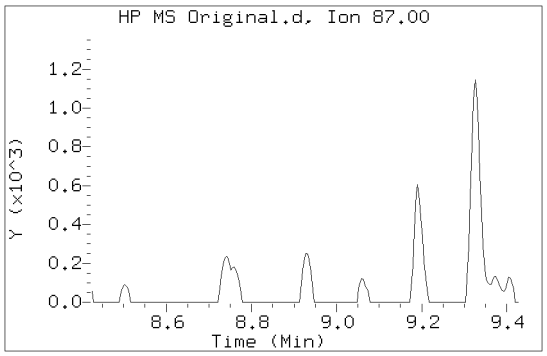
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MASS
70
AREA
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HEIGHT
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07-Jun-2024
11:58
rucha
patel



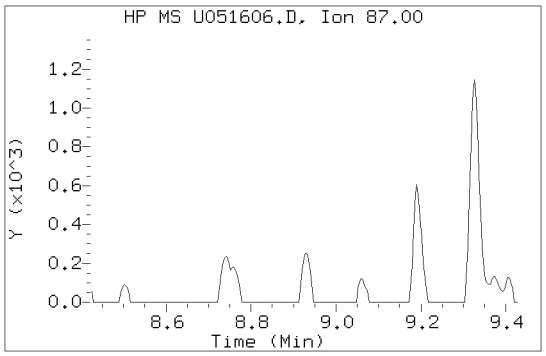
AFTER
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70
AREA
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HEIGHT
0
07-Jun-2024
11:58
rucha
patel



BEFORE
MASS
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AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



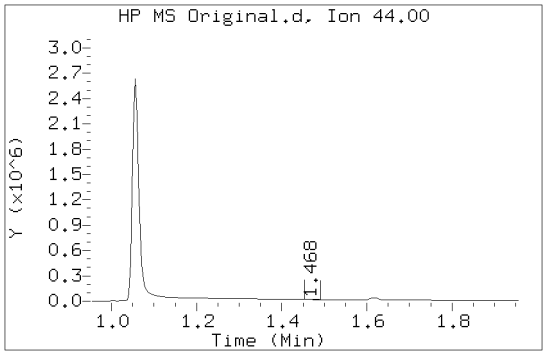
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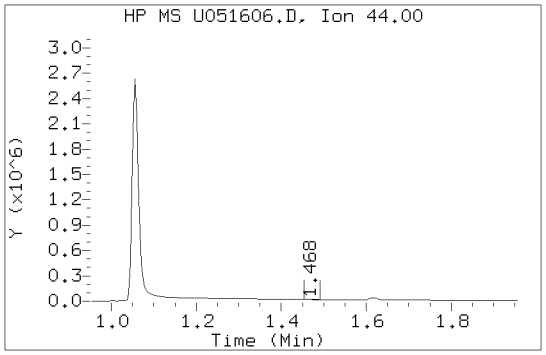
Acetaldehyde (75-07-0)

Reason Code:

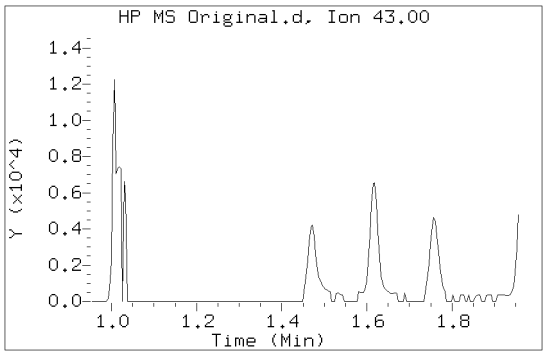
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AREA
6165
HEIGHT
5161
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11:58
rucha
patel



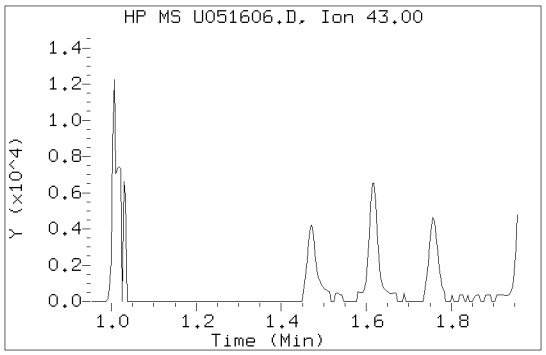
AFTER
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5161
07-Jun-2024
11:58
rucha
patel



BEFORE
MASS
43
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER
MASS
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AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



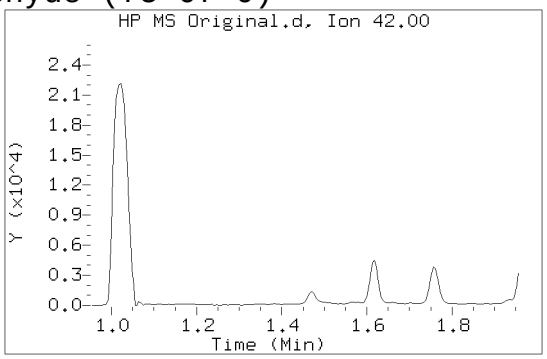
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Inj Date : 16-MAY-2024 13:45
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

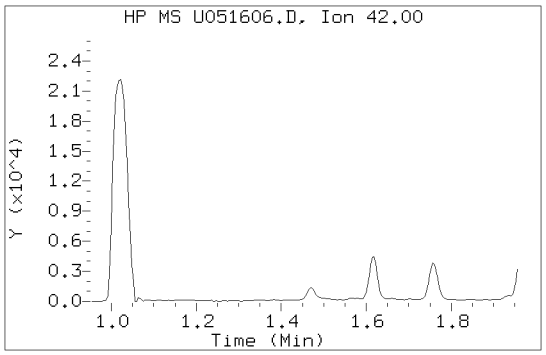
BEFORE

MASS
42
AREA
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HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
42
AREA
0
HEIGHT
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07-Jun-2024
11:58
rucha
patel

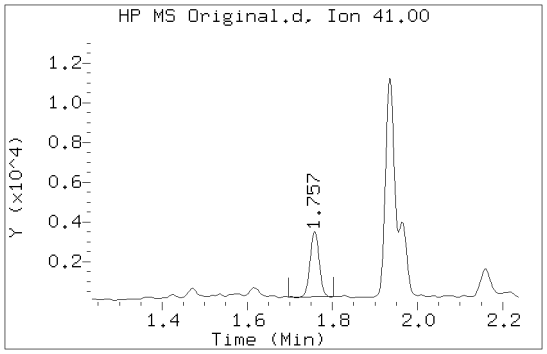


Isobutylene (115-11-7)

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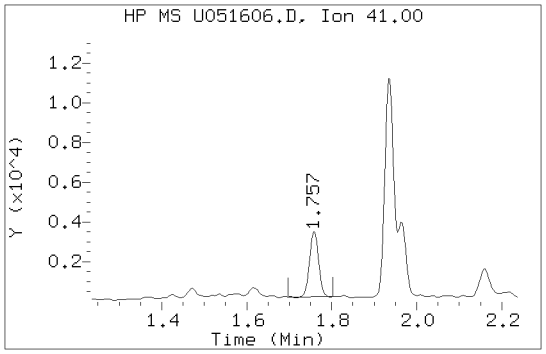
BEFORE

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AREA
4785
HEIGHT
3286
07-Jun-2024
11:58
rucha
patel



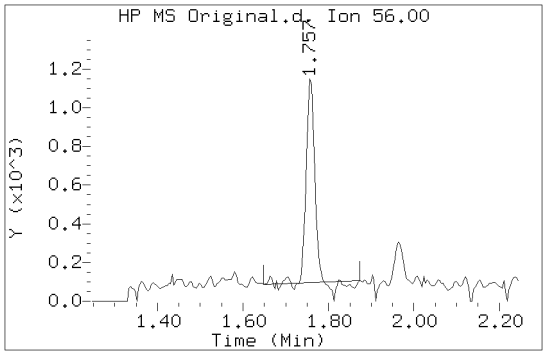
AFTER

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07-Jun-2024
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rucha
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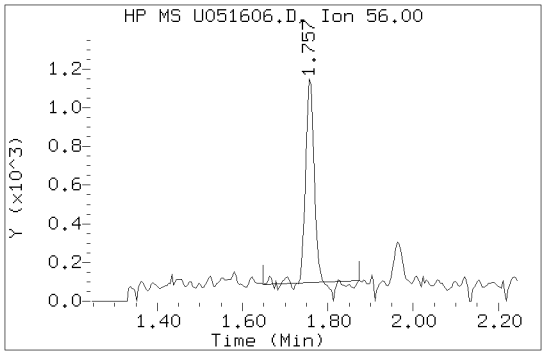
BEFORE

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07-Jun-2024
11:58
rucha
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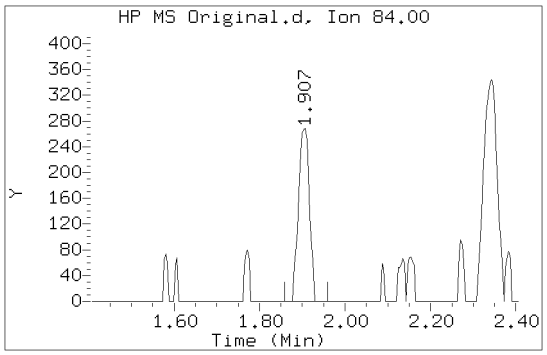
AFTER

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07-Jun-2024
11:58
rucha
patel



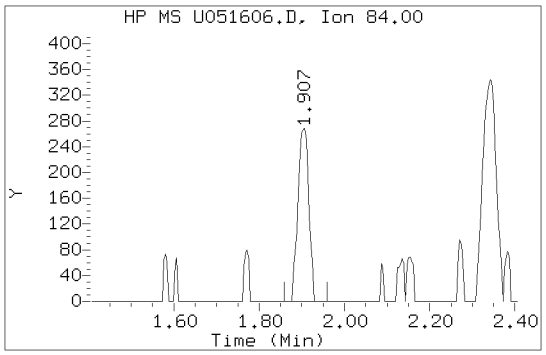
BEFORE

MASS
84
AREA
487
HEIGHT
269
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
84
AREA
487
HEIGHT
269
07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051607.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051607.D
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Inj Date : 16-MAY-2024 14:06
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\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 13:45 Cal File: U051606.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.815	(1.000)	310052	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	31005	20.0000	19.06
3	Chloromethane	50	1.299	1.299	(0.270)	142273	20.0000	18.93
4	Propionitrile	54	4.339	4.339	(0.901)	75434	200.000	196.77(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	49754	20.0000	20.16
6	Bromomethane	94	1.618	1.618	(0.336)	17099	20.0000	20.02
7	Chloroethane	64	1.700	1.700	(0.353)	35138	20.0000	20.08
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	55309	20.0000	19.09
9	Acrolein	56	2.266	2.266	(0.471)	4268	40.0000	44.44
10	Acetone	43	2.412	2.412	(0.501)	38663	40.0000	39.35
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	35890	20.0000	20.50
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	143599	400.000	366.48(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	50587	200.000	200.29(a)
14	Allyl Chloride	41	2.675	2.675	(0.556)	123685	20.0000	19.64(a)
15	Iodomethane	142	2.469	2.469	(0.513)	6897	40.0000	33.97
16	Acrylonitrile	53	3.068	3.068	(0.637)	37579	40.0000	39.96
17	Methylene Chloride	84	2.795	2.795	(0.580)	49863	20.0000	19.92
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	124586	20.0000	19.49
19	Carbon Disulfide	76	2.521	2.521	(0.524)	211363	40.0000	39.72
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	41036	20.0000	19.72

21 Vinyl Acetate	43	4.343	4.343 (0.902)	56014	40.0000	41.43
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	75670	20.0000	19.73

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051607.D Page 2
Report Date: 07-Jun-2024 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.157	2.157	(0.448)	13108	20.0000	18.83(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	54316	40.0000	39.08
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	28355	20.0000	18.23(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	58947	20.0000	19.99
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	48253	20.0000	19.22
	28 Chloroform	83	4.575	4.575	(0.950)	77685	20.0000	19.89
	29 Bromochloromethane	128	4.470	4.470	(0.928)	24485	20.0000	19.79
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	37805	20.0000	18.65
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	59646	20.0000	19.40
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	56412	20.0000	20.29
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	61779	20.0000	19.91
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	44839	20.0000	18.69(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	45819	20.0000	18.80
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	455910	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	181680	20.0000	19.71
	38 Trichloroethene	130	5.786	5.786	(1.043)	45910	20.0000	20.53
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	52649	20.0000	19.54
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	16888	20.0000	18.20(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	60375	40.0000	40.14
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	47901	20.0000	19.27(M)
	43 2-Nitropropane	43	6.573	6.573	(1.365)	34118	20.0000	19.30(M)
	44 Dibromomethane	93	6.120	6.120	(1.103)	28997	20.0000	19.57
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	114625	40.0000	38.82
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	69516	20.0000	19.92
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	410315	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	145822	20.0000	18.73
	49 Ethyl Methacrylate	69	7.214	7.214	(1.300)	58968	20.0000	18.95(a)
	50 Toluene	91	6.978	6.978	(0.853)	191601	20.0000	19.75
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	58248	20.0000	20.16
	52 2-Hexanone	43	7.589	7.589	(0.928)	81781	40.0000	40.39
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	37212	20.0000	20.06
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	82100	20.0000	19.99
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	41204	20.0000	18.39
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	36359	20.0000	19.84
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	43677	20.0000	20.18
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	41680	20.0000	19.54
	59 Chlorobenzene	112	8.208	8.208	(1.003)	122272	20.0000	19.25
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	40882	20.0000	19.66
	61 Ethylbenzene	106	8.305	8.305	(1.015)	62535	20.0000	20.38
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	156927	40.0000	40.56
	63 o-Xylene	106	8.744	8.744	(1.069)	78547	20.0000	20.29
	64 Styrene	104	8.759	8.759	(1.071)	137611	20.0000	20.51
	66 Bromoform	173	8.916	8.916	(1.090)	28092	20.0000	18.58
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	193569	20.0000	20.98
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	64758	20.0000	19.65
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	56195	20.0000	18.74
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	222894	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	69286	20.0000	19.73(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15300	20.0000	19.79(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	226026	20.0000	20.95
	74 Bromobenzene	156	9.317	9.317	(0.916)	53947	20.0000	19.77
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	160314	20.0000	19.83

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	136996	20.0000	19.58
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	158728	20.0000	19.72

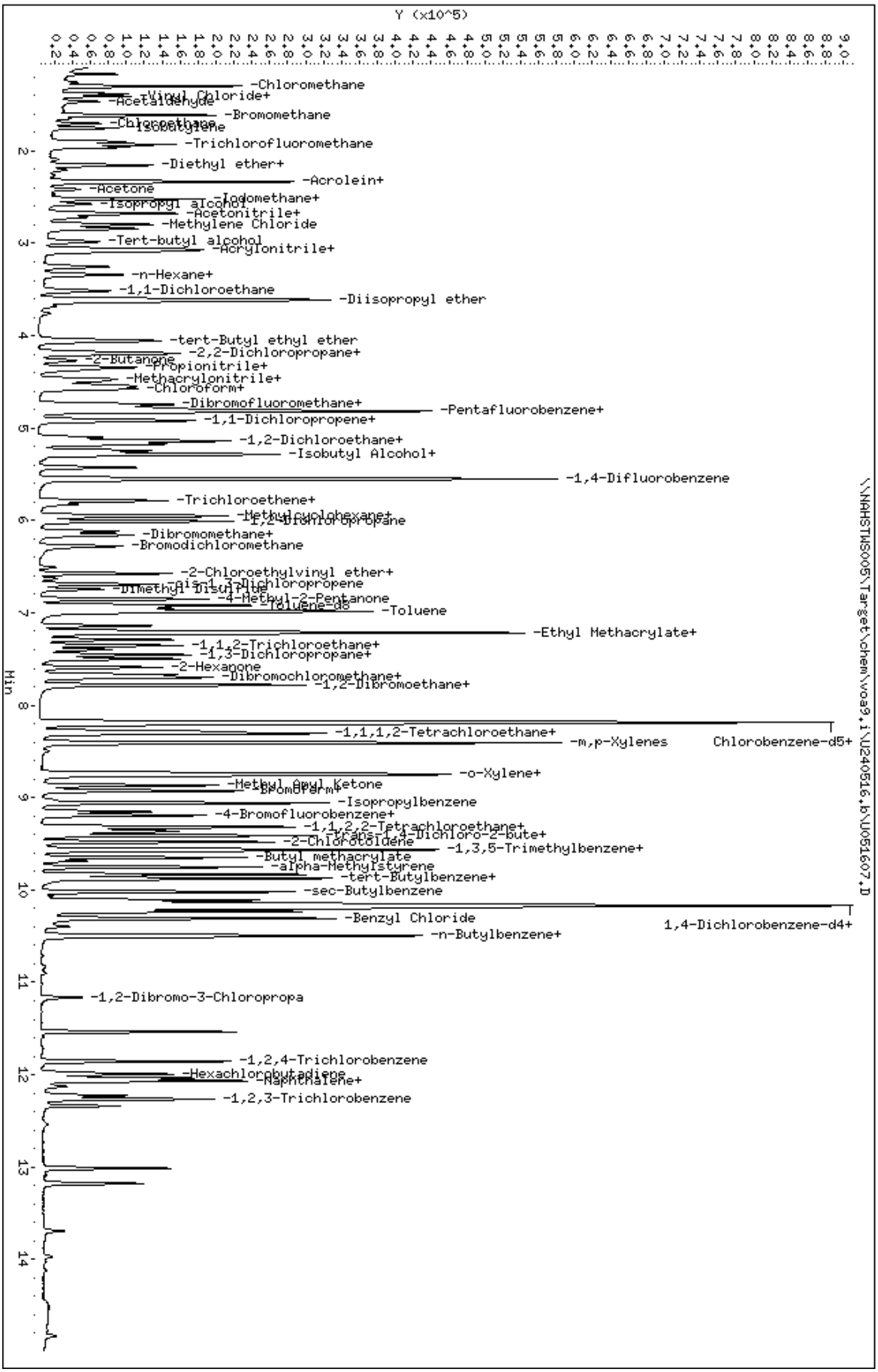
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	133162	20.0000	20.63
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	167361	20.0000	19.72
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	182620	20.0000	20.85
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	164782	20.0000	20.60
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	99391	20.0000	19.00
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	99391	20.0000	19.00
86	Benzyl Chloride	91	10.307	10.307	(1.260)	263172	20.0000	19.60
87	n-Butylbenzene	91	10.491	10.491	(1.032)	154006	20.0000	19.47
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	93180	20.0000	19.21
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	9610	20.0000	19.72
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	63000	20.0000	18.81
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	25881	20.0000	19.68
92	Naphthalene	128	12.065	12.065	(1.187)	155181	20.0000	18.97
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	56721	20.0000	19.35
146	Methyl acetate	43	2.716	2.716	(0.564)	42937	20.0000	18.23
138	Freon TF	101	2.337	2.337	(0.485)	68149	20.0000	19.59
141	Cyclohexane	56	4.782	4.782	(0.993)	65992	20.0000	19.57
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	18521	40.0000	39.77
147	Methylcyclohexane	55	5.947	5.947	(1.072)	112457	20.0000	20.68
135	1,4-Dioxane	88	6.169	6.169	(1.281)	11028	400.000	393.61
132	n-Butanol	56	5.824	5.824	(1.209)	24650	400.000	347.76(a)
136	n-Hexane	57	3.338	3.338	(0.693)	44794	20.0000	19.26
139	Diethyl ether	59	2.150	2.150	(0.447)	34646	20.0000	19.57
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	77025	400.000	379.88
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	57359	400.000	363.61(T)
152	Amyl alcohol	42	7.398	7.398	(0.904)	28105	400.000	385.58
156	Diisopropyl ether	45	3.623	3.623	(0.752)	145661	20.0000	19.37(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	96462	20.0000	19.12
187	n-Amyl acetate	43	8.928	8.928	(1.091)	92423	20.0000	19.40
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	192648	20.0000	20.01
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	146084	20.0000	19.22
167	Ethanol	45	2.090	2.090	(0.434)	9811	400.000	396.89
172	tert-Butyl formate	59	5.246	5.246	(1.090)	86018	40.0000	37.78
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	108676	400.000	385.78
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	142777	20.0000	19.44
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	138699	20.0000	19.62
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	85903	400.000	384.45
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	314770	400.000	390.40
140	1,3-Butadiene	54	1.404	1.404	(0.292)	23015	20.0000	20.14
182	Epichlorohydrin	57	6.630	6.630	(1.195)	14451	80.0000	71.94
M 94	1,2-Dichloroethylene (total)	96				89289	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	68910	20.0000	19.94
130	Ethyl Acetate	43	4.343	4.343	(0.902)	56534	20.0000	20.99
131	Methyl Acrylate	55	4.373	4.373	(0.908)	58929	20.0000	19.01
189	n-Butyl acetate	43	7.702	7.702	(0.941)	89260	20.0000	19.89
134	Cyclohexanone	55	9.152	9.152	(0.900)	48942	400.000	352.94(a)
185	Isoprene	39	2.157	2.157	(0.448)	10126	20.0000	18.96
188	Isopropyl acetate	43	5.284	5.284	(0.952)	143953	20.0000	19.18
150	Allyl alcohol	57	3.338	3.338	(0.693)	44794	400.000	385.38
194	Acetaldehyde	44	1.464	1.464	(0.304)	33769	80.0000	86.15(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	112315	20.0000	19.07
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	29396	20.0000	15.44

202 Isobutylene	41	1.753	1.753 (0.364)	18551	20.0000	19.93(M)
133 Ethyl Acrylate	55	5.947	5.947 (1.235)	111945	20.0000	20.30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	56988	20.0000	18.55
159 Propylene oxide	43	2.206	2.206	(0.458)	8775	40.0000	40.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	54140	20.0000	18.78

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\U240516,b\U051607.D
Date : 16-MAY-2024 14:06
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

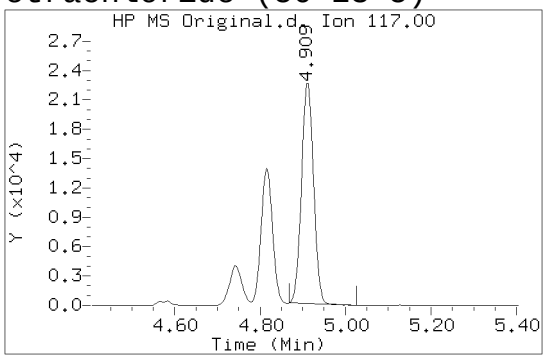
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Inj Date : 16-MAY-2024 14:06
InstruID : VOA9.i
LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

Reason Code:

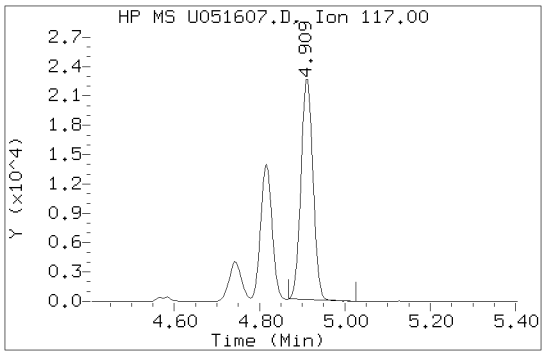
BEFORE

MASS
117
AREA
44839
HEIGHT
22473
07-Jun-2024
11:58
rucha
patel



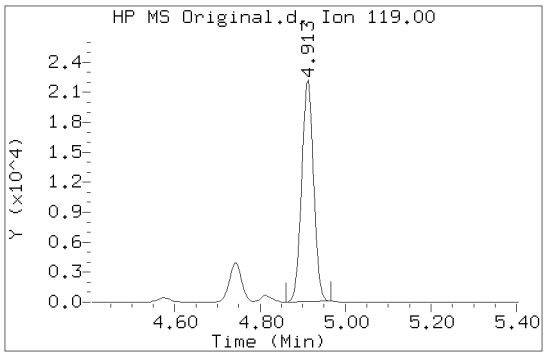
AFTER

MASS
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AREA
44839
HEIGHT
22473
07-Jun-2024
11:58
rucha
patel



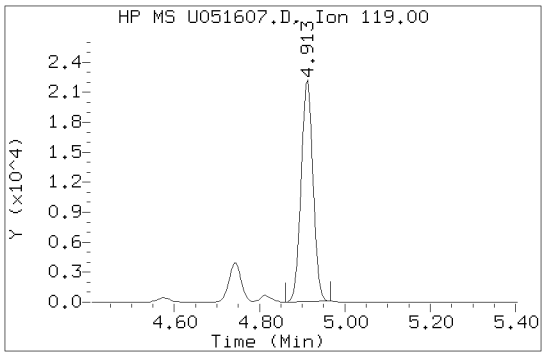
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119
AREA
43515
HEIGHT
22184
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
43515
HEIGHT
22184
07-Jun-2024
11:58
rucha
patel

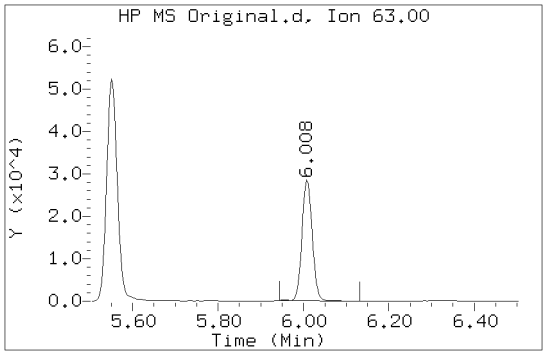


1,2-Dichloropropane (78-87-5)

Reason Code:

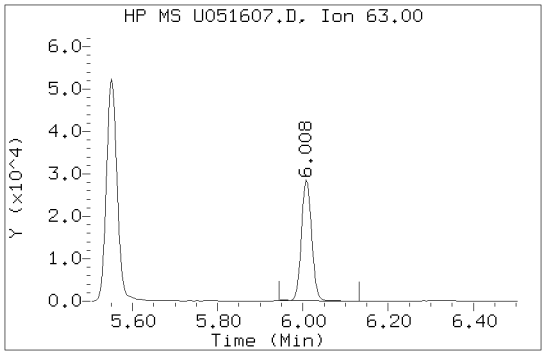
BEFORE

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AREA
47901
HEIGHT
28519
07-Jun-2024
11:58
rucha
patel



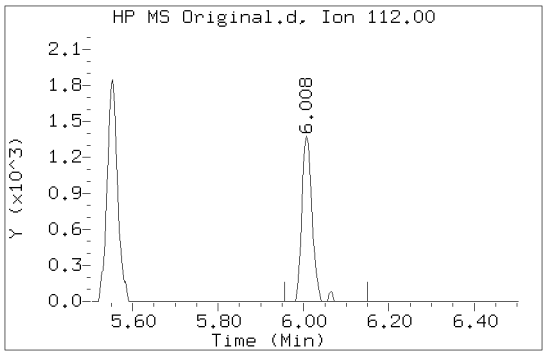
AFTER

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07-Jun-2024
11:58
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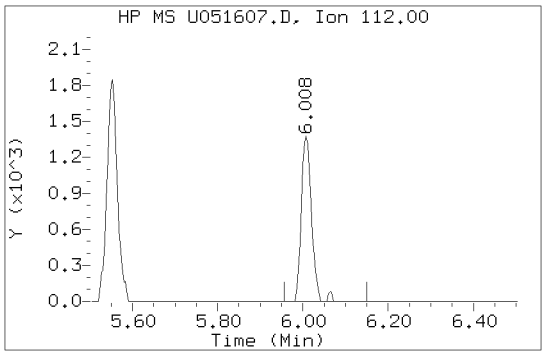
BEFORE

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112
AREA
2334
HEIGHT
1379
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
112
AREA
2334
HEIGHT
1379
07-Jun-2024
11:58
rucha
patel



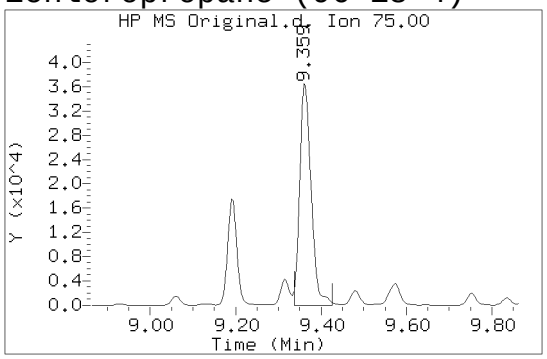
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Inj Date : 16-MAY-2024 14:06
InstruID : VOA9.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

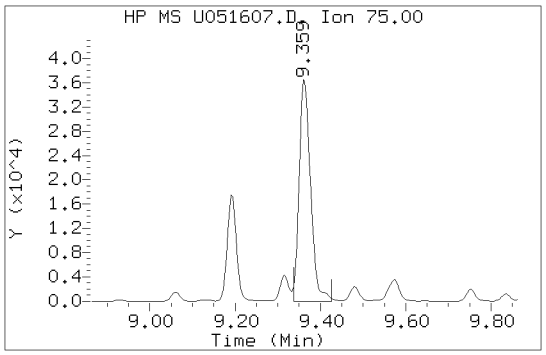
BEFORE

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AREA
69286
HEIGHT
36556
07-Jun-2024
11:58
rucha
patel



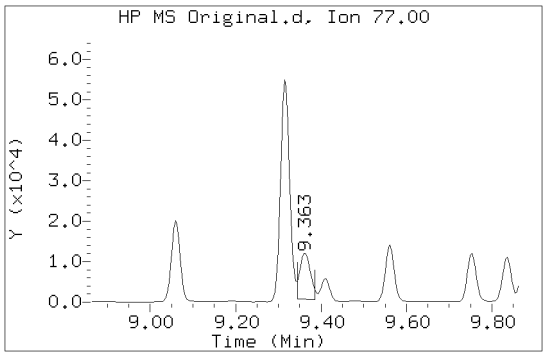
AFTER

MASS
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AREA
69286
HEIGHT
36556
07-Jun-2024
11:58
rucha
patel



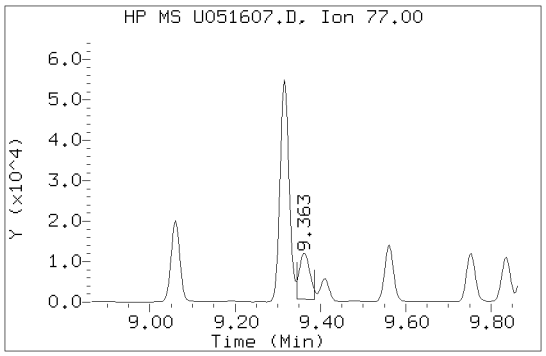
BEFORE

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AREA
20322
HEIGHT
11363
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
20322
HEIGHT
11363
07-Jun-2024
11:58
rucha
patel

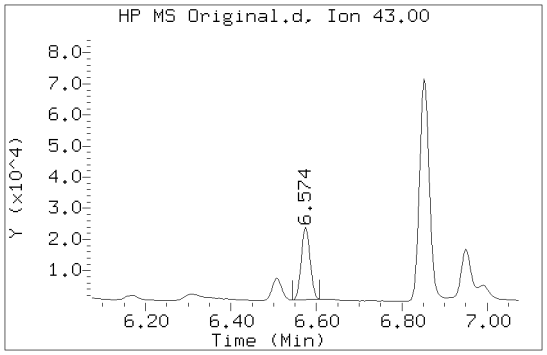


2-Nitropropane (79-46-9)

Reason Code:

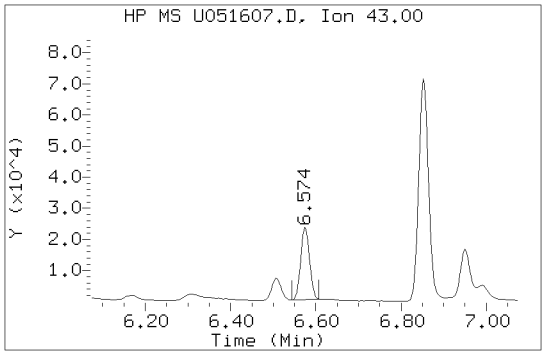
BEFORE

MASS
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AREA
34118
HEIGHT
23321
07-Jun-2024
11:58
rucha
patel



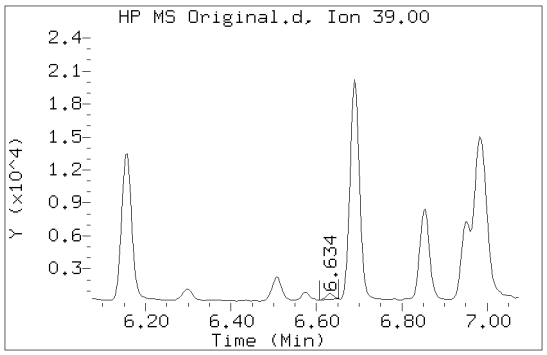
AFTER

MASS
43
AREA
34118
HEIGHT
23321
07-Jun-2024
11:58
rucha
patel



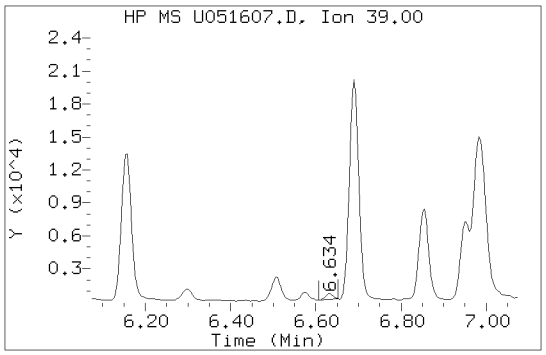
BEFORE

MASS
39
AREA
690
HEIGHT
541
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
39
AREA
690
HEIGHT
541
07-Jun-2024
11:58
rucha
patel



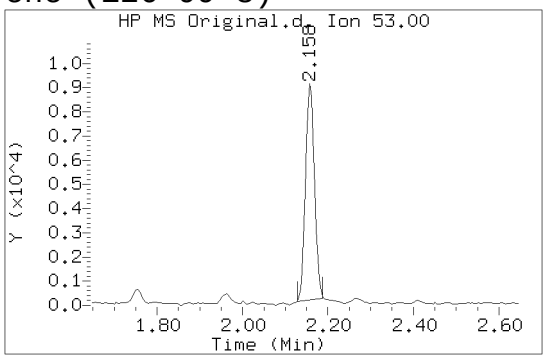
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Inj Date : 16-MAY-2024 14:06
InstruID : VOA9.i
LabSampID : VSTD020

Chloroprene (126-99-8)

Reason Code:

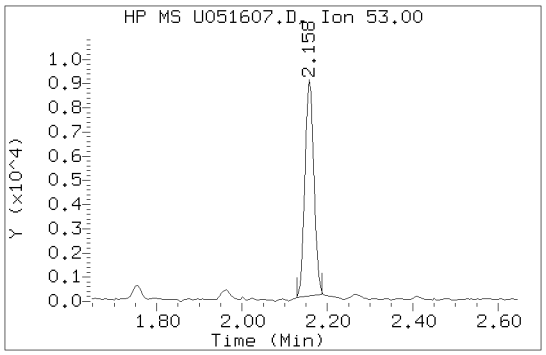
BEFORE

MASS
53
AREA
13108
HEIGHT
8942
07-Jun-2024
11:58
rucha
patel



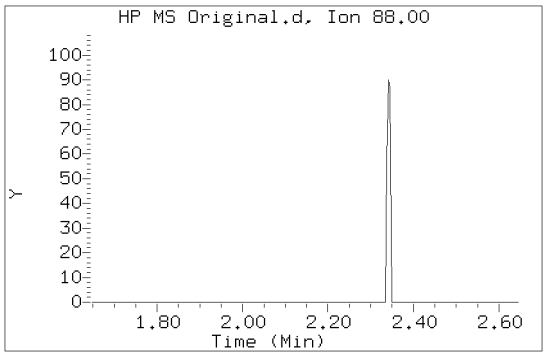
AFTER

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07-Jun-2024
11:58
rucha
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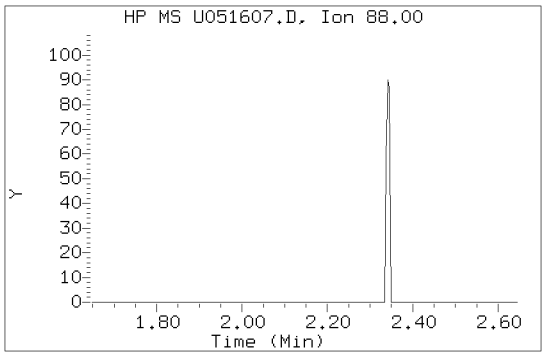
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

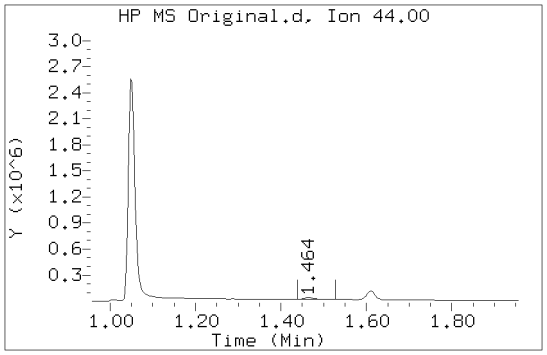


Acetaldehyde (75-07-0)

Reason Code:

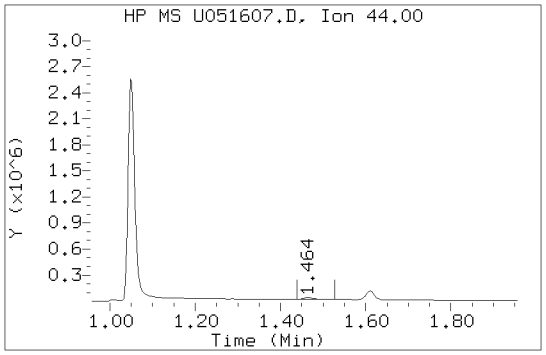
BEFORE

MASS
44
AREA
33769
HEIGHT
22404
07-Jun-2024
11:58
rucha
patel



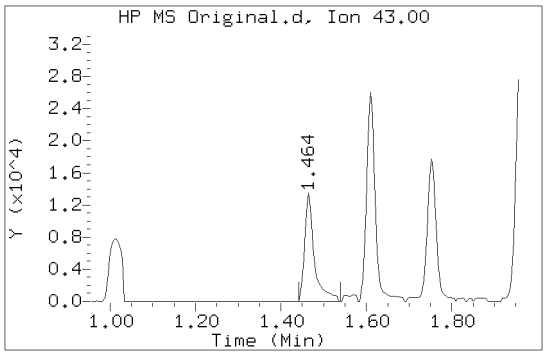
AFTER

MASS
44
AREA
33769
HEIGHT
22404
07-Jun-2024
11:58
rucha
patel



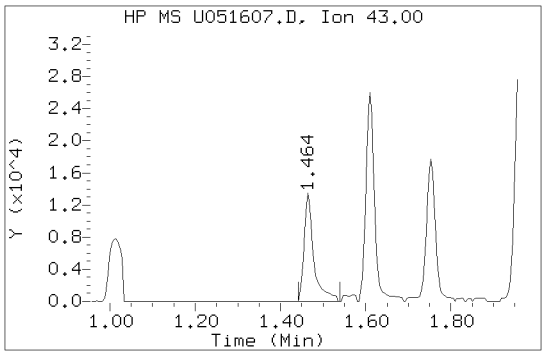
BEFORE

MASS
43
AREA
21833
HEIGHT
13479
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
43
AREA
21833
HEIGHT
13479
07-Jun-2024
11:58
rucha
patel



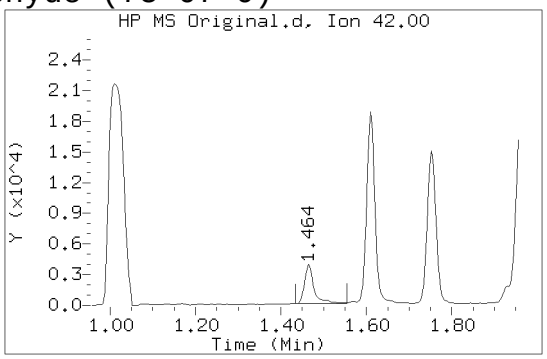
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051607.D
Inj Date : 16-MAY-2024 14:06
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

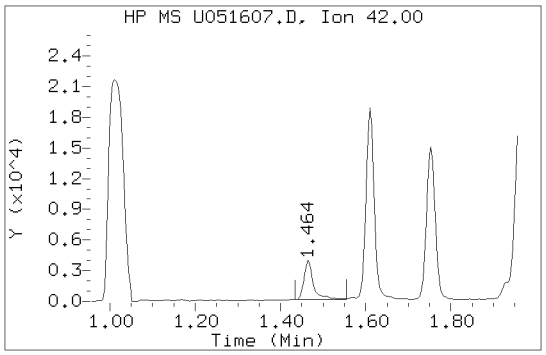
BEFORE

MASS
42
AREA
6226
HEIGHT
3877
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
6226
HEIGHT
3877
07-Jun-2024
11:58
rucha
patel

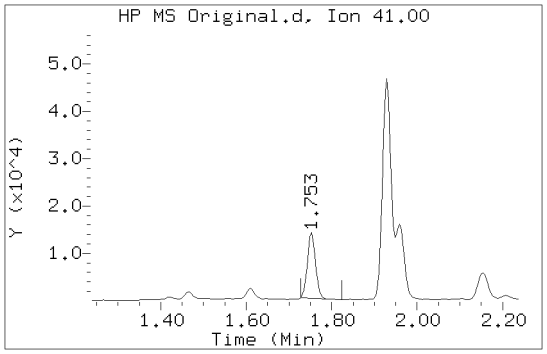


Isobutylene (115-11-7)

Reason Code:

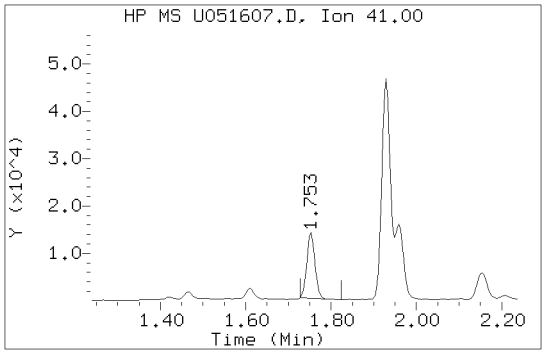
BEFORE

MASS
41
AREA
18551
HEIGHT
13914
07-Jun-2024
11:58
rucha
patel



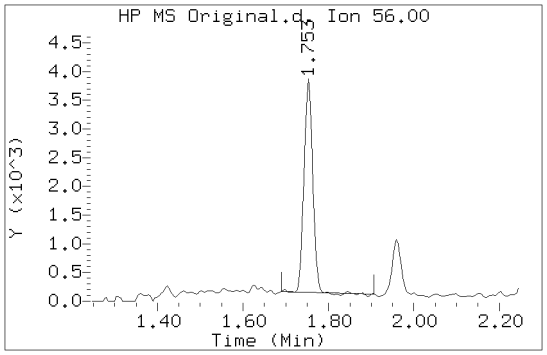
AFTER

MASS
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HEIGHT
13914
07-Jun-2024
11:58
rucha
patel



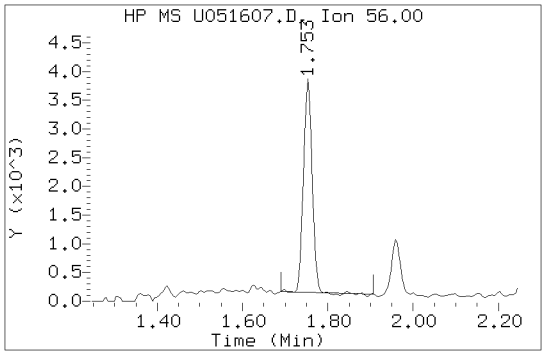
BEFORE

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HEIGHT
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11:58
rucha
patel



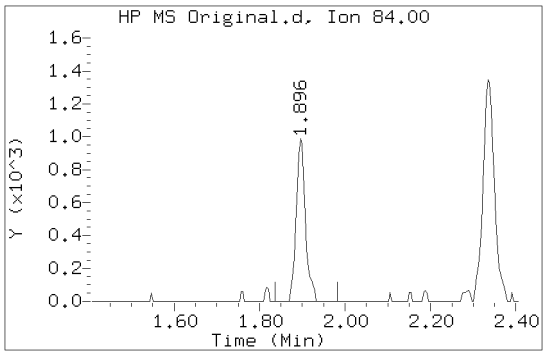
AFTER

MASS
56
AREA
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3712
07-Jun-2024
11:58
rucha
patel



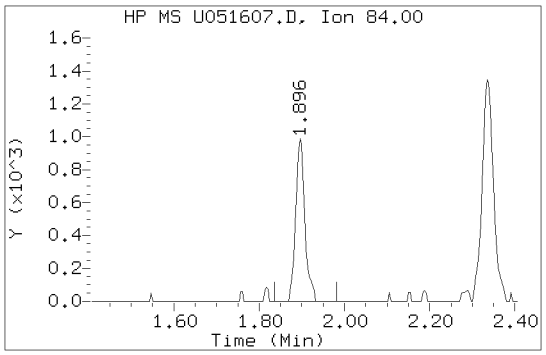
BEFORE

MASS
84
AREA
1522
HEIGHT
991
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
84
AREA
1522
HEIGHT
991
07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051608.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051608.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-MAY-2024 14:28
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\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 14:06 Cal File: U051607.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.819	4.819	(1.000)	307359	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	82697	50.0000	50.09
3	Chloromethane	50	1.303	1.303	(0.270)	297421	50.0000	49.69
4	Propionitrile	54	4.343	4.343	(0.901)	182024	500.000	478.97
5	Vinyl Chloride	62	1.382	1.382	(0.287)	128701	50.0000	52.63
6	Bromomethane	94	1.618	1.618	(0.336)	39097	50.0000	47.71
7	Chloroethane	64	1.704	1.704	(0.354)	90413	50.0000	50.66
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	146871	50.0000	50.33
9	Acrolein	56	2.270	2.270	(0.471)	9458	100.000	103.64
10	Acetone	43	2.416	2.416	(0.501)	100311	100.000	109.85
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	90852	50.0000	52.36
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	359557	1000.00	925.67
13	Acetonitrile	39	2.679	2.679	(0.556)	122234	500.000	488.21
14	Allyl Chloride	41	2.679	2.679	(0.556)	307222	50.0000	49.22
15	Iodomethane	142	2.472	2.472	(0.513)	21451	100.000	102.20
16	Acrylonitrile	53	3.072	3.072	(0.638)	92533	100.000	101.65
17	Methylene Chloride	84	2.799	2.799	(0.581)	119535	50.0000	50.51
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	299370	50.0000	47.24
19	Carbon Disulfide	76	2.525	2.525	(0.524)	563906	100.000	106.90
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	103112	50.0000	49.99

21 Vinyl Acetate	43	4.347	4.347 (0.902)	142494	100.000	106.33
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	191753	50.0000	50.43

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051608.D Page 2
Report Date: 07-Jun-2024 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.161	2.161	(0.449)	35862	50.0000	50.81(M)
	24 2-Butanone	43	4.272	4.272	(0.886)	138147	100.000	100.26
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	74801	50.0000	48.52(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	150880	50.0000	51.64
	27 cis-1,2-Dichloroethene	96	4.201	4.201	(0.872)	122668	50.0000	49.29
	28 Chloroform	83	4.575	4.575	(0.949)	196313	50.0000	50.71
	29 Bromochloromethane	128	4.470	4.470	(0.928)	58977	50.0000	48.08
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	100500	50.0000	50.03
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	156935	50.0000	50.65
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	144348	50.0000	52.74
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	154247	50.0000	50.48
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	121718	50.0000	49.42(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	117306	50.0000	48.56
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	448986	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	457326	50.0000	50.38
	38 Trichloroethene	130	5.790	5.790	(1.043)	117269	50.0000	53.26
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	139381	50.0000	52.53
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	43524	50.0000	47.33
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	160452	100.000	108.34
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	120090	50.0000	49.06(M)
	43 2-Nitropropane	43	6.573	6.573	(1.364)	97416	50.0000	55.59(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	73786	50.0000	50.57
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	292456	100.000	100.88
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	183840	50.0000	53.50
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	402935	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	375077	50.0000	49.06
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	148830	50.0000	48.56
	50 Toluene	91	6.978	6.978	(0.853)	478232	50.0000	50.20
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	156209	50.0000	54.91
	52 2-Hexanone	43	7.589	7.589	(0.927)	204391	100.000	102.81
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	92496	50.0000	50.77
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	200952	50.0000	49.84
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	113455	50.0000	48.99
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	91225	50.0000	49.67
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	111116	50.0000	52.29
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	102908	50.0000	51.24
	59 Chlorobenzene	112	8.208	8.208	(1.003)	308890	50.0000	49.53
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	107210	50.0000	52.52
	61 Ethylbenzene	106	8.305	8.305	(1.015)	158605	50.0000	52.64
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	398626	100.000	104.92
	63 o-Xylene	106	8.744	8.744	(1.068)	193693	50.0000	50.96
	64 Styrene	104	8.759	8.759	(1.070)	345800	50.0000	52.48
	66 Bromoform	173	8.916	8.916	(1.089)	78639	50.0000	50.83
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	489704	50.0000	54.06
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	164236	50.0000	51.33
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	140483	50.0000	47.73
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	216481	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	175384	50.0000	51.44(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	40329	50.0000	53.12
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	579012	50.0000	55.27
	74 Bromobenzene	156	9.317	9.317	(0.916)	136012	50.0000	51.32
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	410626	50.0000	52.31

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	345194	50.0000	50.81
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	402460	50.0000	51.48

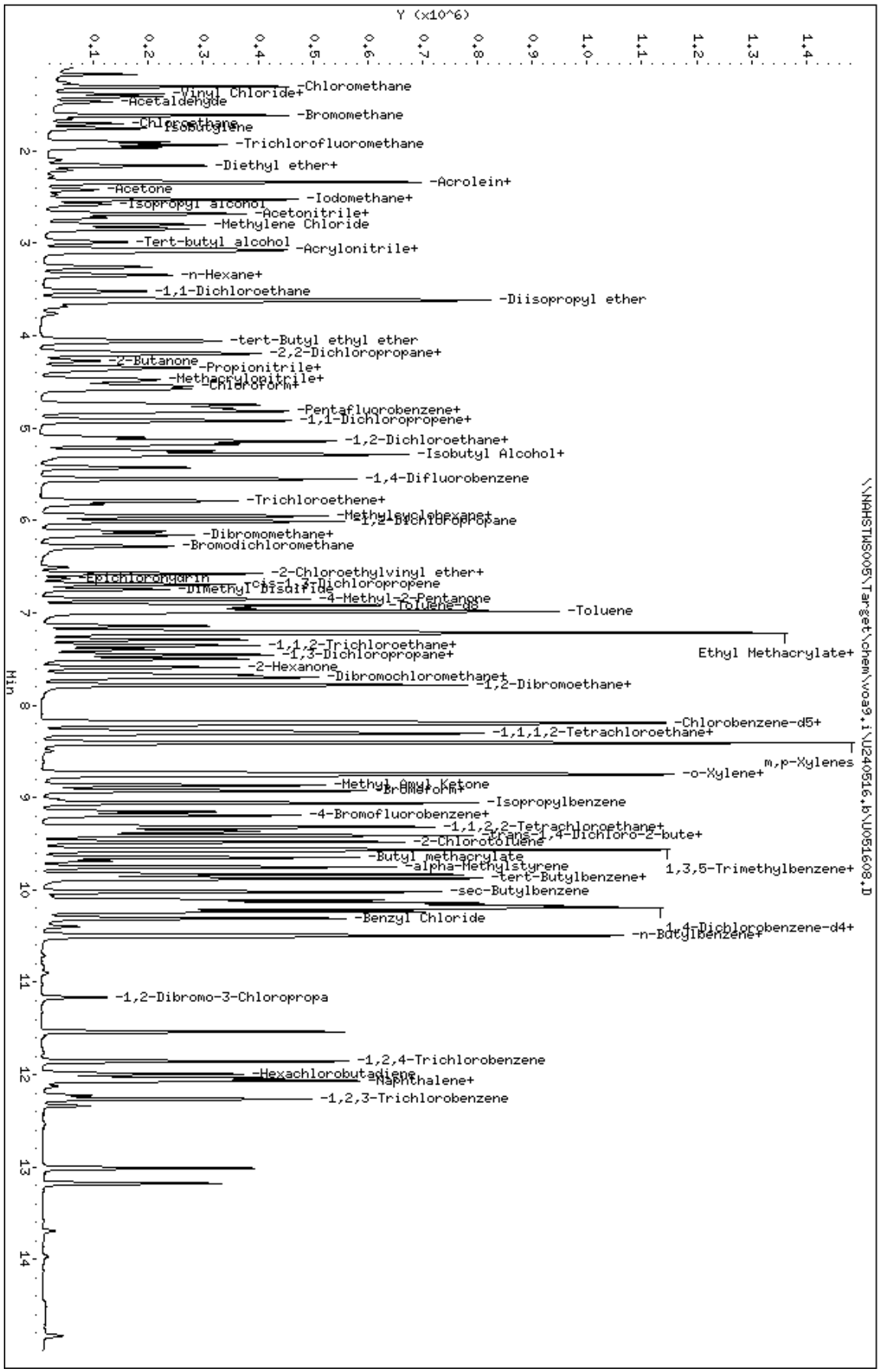
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	349844	50.0000	55.82
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	415974	50.0000	51.07
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	472356	50.0000	55.54
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	425519	50.0000	54.79
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	248218	50.0000	48.86
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	248218	50.0000	48.86
86	Benzyl Chloride	91	10.307	10.307	(1.259)	399399	50.0000	50.32
87	n-Butylbenzene	91	10.491	10.491	(1.032)	385033	50.0000	52.08
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	237141	50.0000	50.36
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	24447	50.0000	51.66
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	170399	50.0000	52.41
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	67861	50.0000	52.48
92	Naphthalene	128	12.065	12.065	(1.187)	407621	50.0000	51.32
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	147703	50.0000	51.89
146	Methyl acetate	43	2.720	2.720	(0.564)	111690	50.0000	47.86
138	Freon TF	101	2.337	2.337	(0.485)	171709	50.0000	48.58
141	Cyclohexane	56	4.785	4.785	(0.993)	165490	50.0000	51.03
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	45648	100.000	100.62
147	Methylcyclohexane	55	5.947	5.947	(1.071)	282652	50.0000	52.78
135	1,4-Dioxane	88	6.169	6.169	(1.280)	26409	1000.00	984.77
132	n-Butanol	56	5.827	5.827	(1.209)	65059	1000.00	925.90
136	n-Hexane	57	3.342	3.342	(0.694)	117889	50.0000	50.37
139	Diethyl ether	59	2.154	2.154	(0.447)	83252	50.0000	47.44
148	Tert-butyl alcohol	59	2.986	2.986	(0.620)	191221	1000.00	951.36
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	143951	1000.00	920.55
152	Amyl alcohol	42	7.398	7.398	(0.904)	73615	1000.00	1028.44
156	Diisopropyl ether	45	3.627	3.627	(0.753)	355223	50.0000	47.66
162	Butyl acrylate	55	8.729	8.729	(1.066)	248258	50.0000	50.11
187	n-Amyl acetate	43	8.928	8.928	(1.091)	240512	50.0000	51.41
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	454704	50.0000	49.72
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	354296	50.0000	48.00
167	Ethanol	45	2.098	2.098	(0.435)	25050	1000.00	1037.63
172	tert-Butyl formate	59	5.246	5.246	(1.089)	217178	100.000	96.22
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	270885	1000.00	979.21
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	349002	50.0000	47.95
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	340284	50.0000	48.57
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	217178	1000.00	980.49
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	797605	1000.00	1004.52
140	1,3-Butadiene	54	1.412	1.412	(0.293)	56585	50.0000	49.58
182	Epichlorohydrin	57	6.630	6.630	(1.194)	37810	200.000	191.14
M 94	1,2-Dichloroethylene (total)	96				225780	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	181799	50.0000	54.18
130	Ethyl Acetate	43	4.347	4.347	(0.902)	142494	50.0000	53.39
131	Methyl Acrylate	55	4.373	4.373	(0.907)	145928	50.0000	47.49
189	n-Butyl acetate	43	7.702	7.702	(0.941)	228619	50.0000	51.88
134	Cyclohexanone	55	9.153	9.153	(0.900)	124226	1000.00	922.38
185	Isoprene	39	2.161	2.161	(0.449)	25124	50.0000	47.46
188	Isopropyl acetate	43	5.288	5.288	(0.952)	359833	50.0000	48.70
150	Allyl alcohol	57	3.342	3.342	(0.694)	117889	1000.00	1007.44
194	Acetaldehyde	44	1.468	1.468	(0.305)	81515	200.000	206.83(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	287020	50.0000	49.62
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	98429	50.0000	44.23

202 Isobutylene	41	1.756	1.756 (0.365)	44790	50.0000	47.45(M)
133 Ethyl Acrylate	55	5.947	5.947 (1.234)	282652	50.0000	51.72

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	144279	50.0000	48.38
159 Propylene oxide	43	2.206	2.206	(0.458)	20139	100.000	98.09
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	138755	50.0000	50.02

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\U240516,b\U051608.D
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
\\NAHSTWS005\Target\chem\voa9,i\U240516,b\U051608.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane
-Chloroethane
Isobutylene
-Trichlorofluoromethane
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane+
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-Epichlorohydrin
-cis-1,3-Dichloropropene
-DiMethyl Disulfide
-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+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene

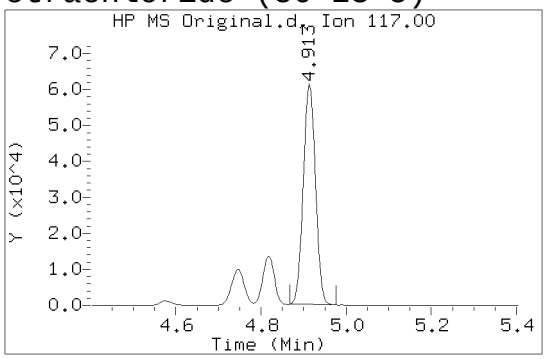
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Inj Date : 16-MAY-2024 14:28
InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

Reason Code:

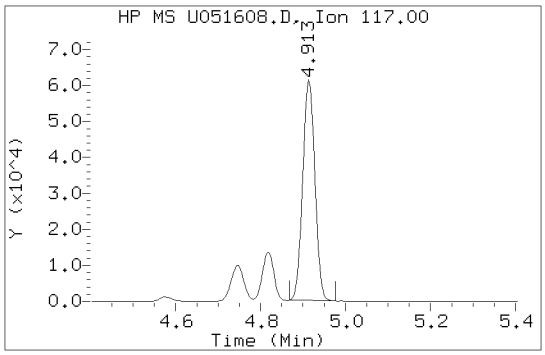
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HEIGHT
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07-Jun-2024
11:58
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patel



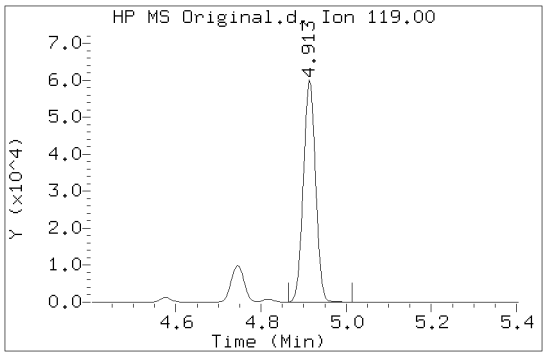
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07-Jun-2024
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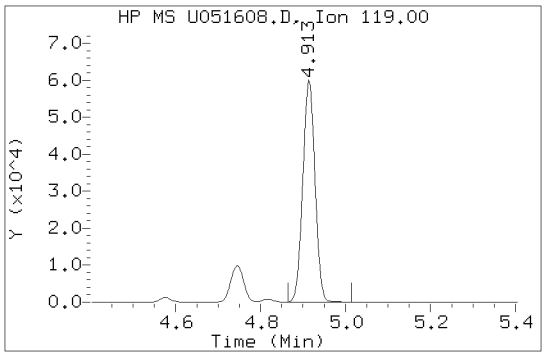
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07-Jun-2024
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patel



AFTER

MASS
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60059
07-Jun-2024
11:58
rucha
patel

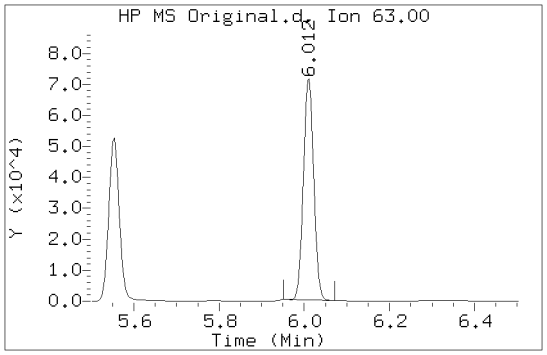


1,2-Dichloropropane (78-87-5)

Reason Code:

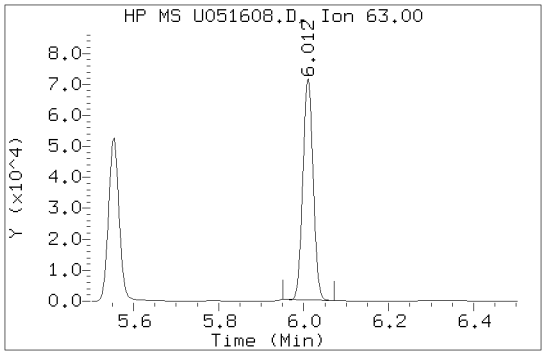
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07-Jun-2024
11:58
rucha
patel



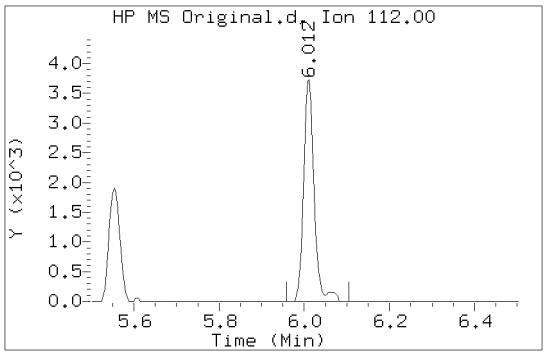
AFTER

MASS
63
AREA
120090
HEIGHT
71403
07-Jun-2024
11:58
rucha
patel



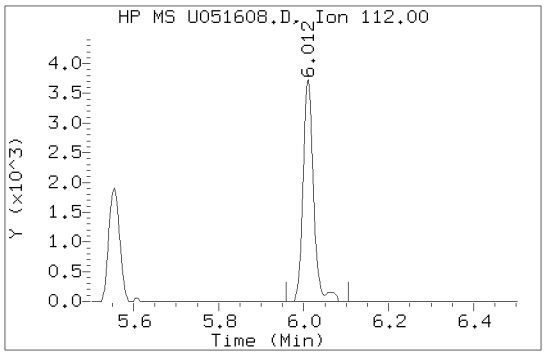
BEFORE

MASS
112
AREA
6373
HEIGHT
3730
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
112
AREA
6373
HEIGHT
3730
07-Jun-2024
11:58
rucha
patel



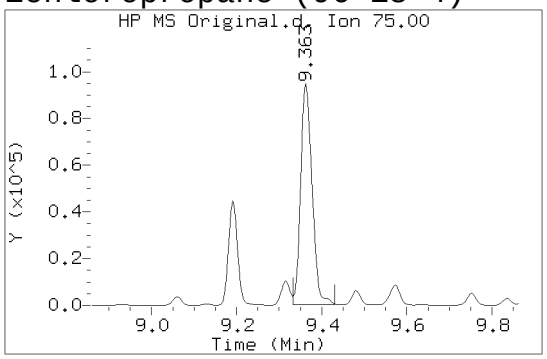
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Inj Date : 16-MAY-2024 14:28
InstruID : VOA9.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

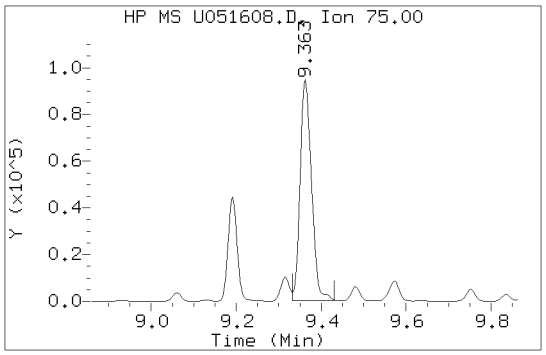
BEFORE

MASS
75
AREA
175384
HEIGHT
94578
07-Jun-2024
11:58
rucha
patel



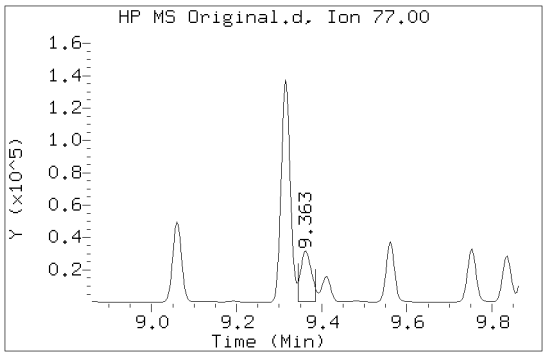
AFTER

MASS
75
AREA
175384
HEIGHT
94578
07-Jun-2024
11:58
rucha
patel



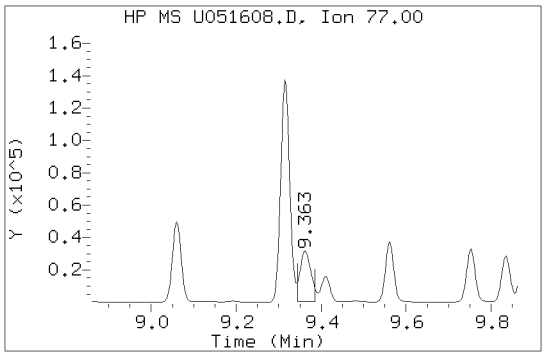
BEFORE

MASS
77
AREA
55965
HEIGHT
31652
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
77
AREA
55965
HEIGHT
31652
07-Jun-2024
11:58
rucha
patel

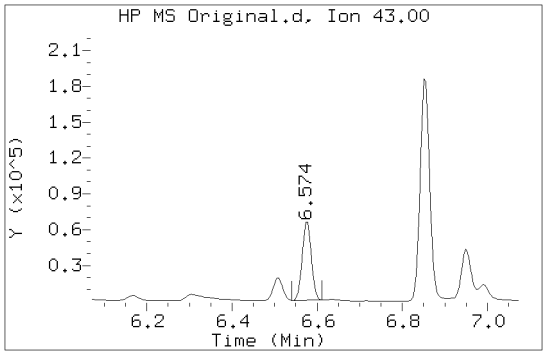


2-Nitropropane (79-46-9)

Reason Code:

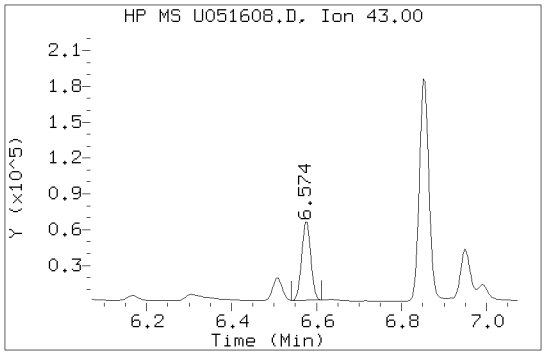
BEFORE

MASS
43
AREA
97416
HEIGHT
65593
07-Jun-2024
11:58
rucha
patel



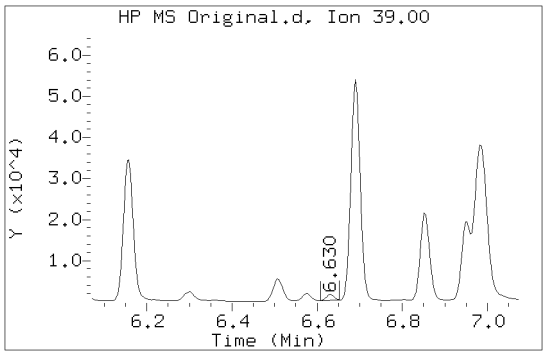
AFTER

MASS
43
AREA
97416
HEIGHT
65593
07-Jun-2024
11:58
rucha
patel



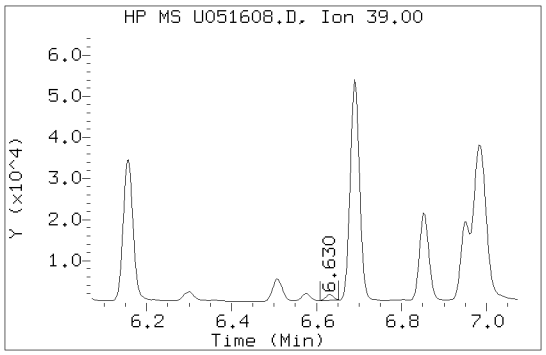
BEFORE

MASS
39
AREA
1786
HEIGHT
1427
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
39
AREA
1786
HEIGHT
1427
07-Jun-2024
11:58
rucha
patel



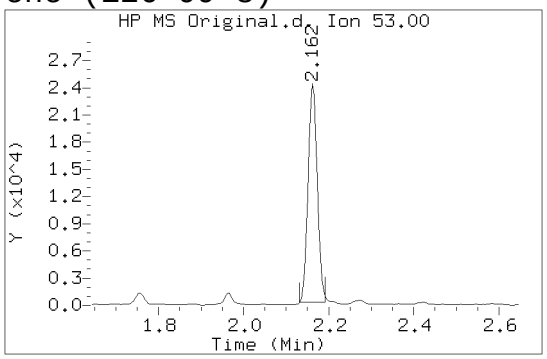
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Inj Date : 16-MAY-2024 14:28
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

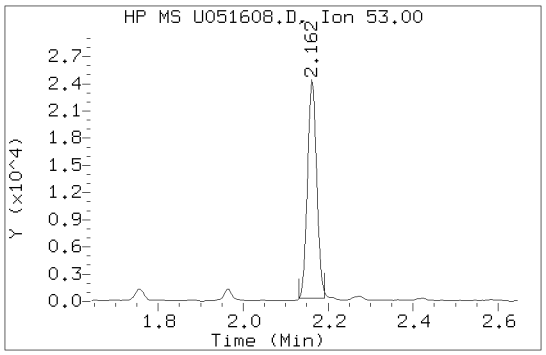
BEFORE

MASS
53
AREA
35862
HEIGHT
24077
07-Jun-2024
11:58
rucha
patel



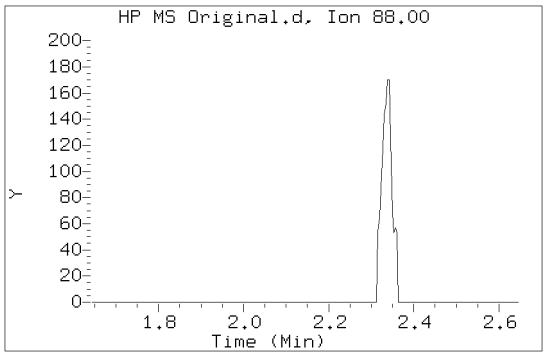
AFTER

MASS
53
AREA
35862
HEIGHT
24077
07-Jun-2024
11:58
rucha
patel



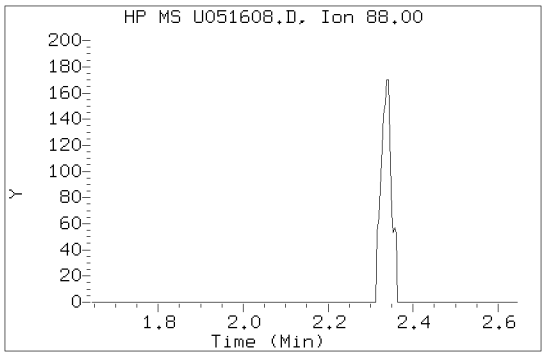
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
07-Jun-2024
11:58
rucha
patel

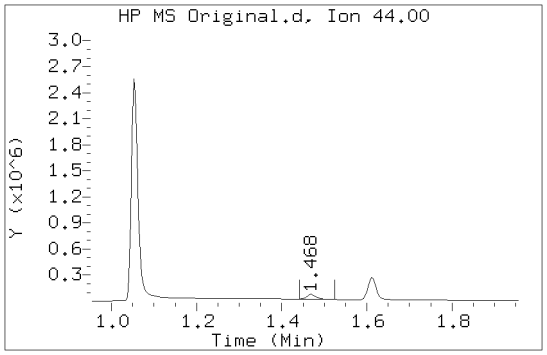


Acetaldehyde (75-07-0)

Reason Code:

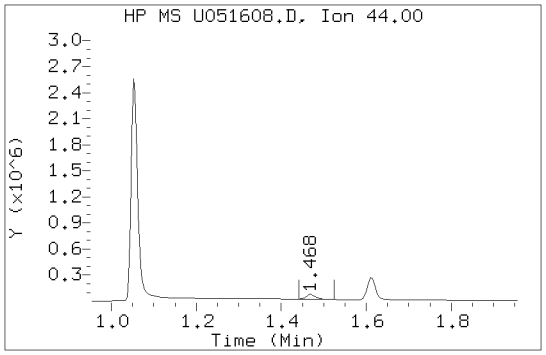
BEFORE

MASS
44
AREA
81515
HEIGHT
56453
07-Jun-2024
11:58
rucha
patel



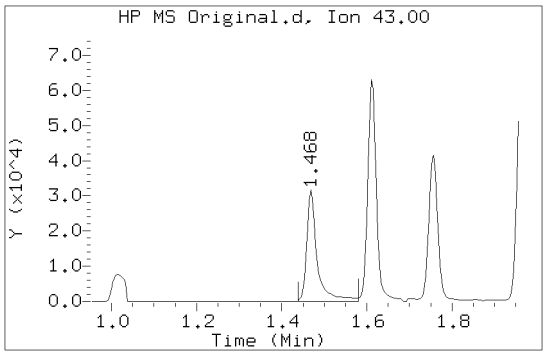
AFTER

MASS
44
AREA
81515
HEIGHT
56453
07-Jun-2024
11:58
rucha
patel



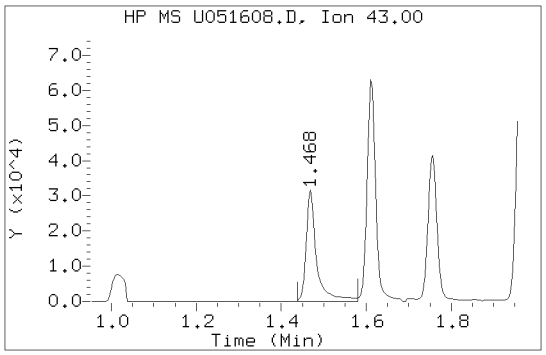
BEFORE

MASS
43
AREA
53581
HEIGHT
31720
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
43
AREA
53581
HEIGHT
31720
07-Jun-2024
11:58
rucha
patel



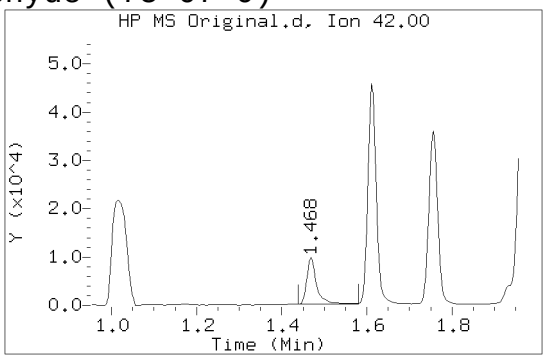
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Inj Date : 16-MAY-2024 14:28
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

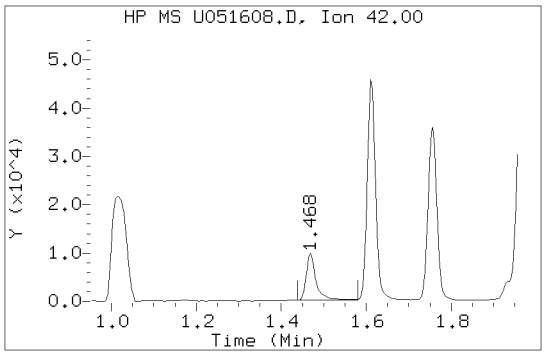
BEFORE

MASS
42
AREA
15772
HEIGHT
9805
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
42
AREA
15772
HEIGHT
9805
07-Jun-2024
11:58
rucha
patel

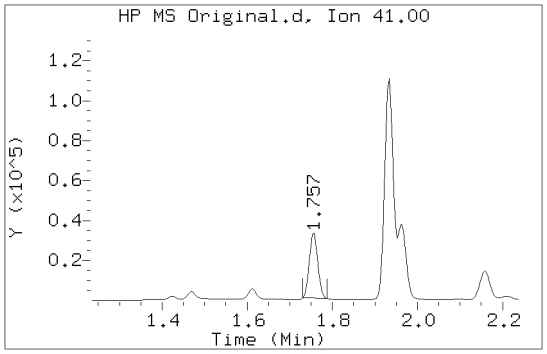


Isobutylene (115-11-7)

Reason Code:

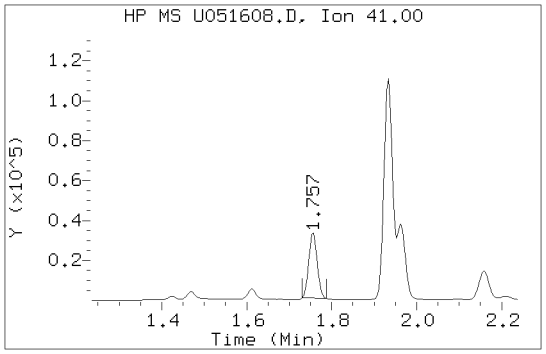
BEFORE

MASS
41
AREA
44790
HEIGHT
32544
07-Jun-2024
11:58
rucha
patel



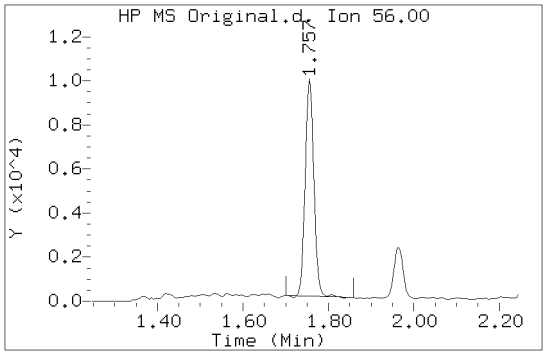
AFTER

MASS
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AREA
44790
HEIGHT
32544
07-Jun-2024
11:58
rucha
patel



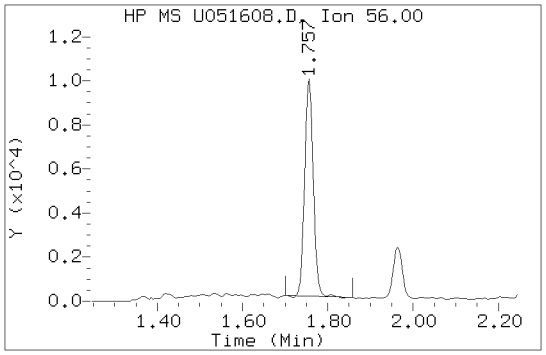
BEFORE

MASS
56
AREA
13792
HEIGHT
9851
07-Jun-2024
11:58
rucha
patel



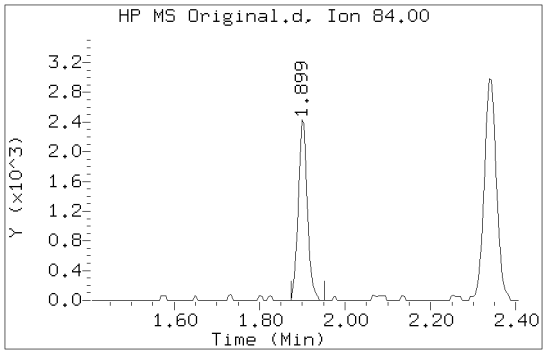
AFTER

MASS
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AREA
13792
HEIGHT
9851
07-Jun-2024
11:58
rucha
patel



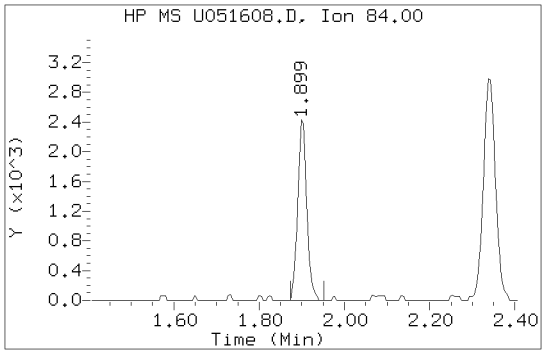
BEFORE

MASS
84
AREA
3665
HEIGHT
2433
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
84
AREA
3665
HEIGHT
2433
07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051609.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051609.D
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Inj Date : 16-MAY-2024 14:50
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 14:28 Cal File: U051608.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.815	(1.000)	305420	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	171149	100.000	101.90
3	Chloromethane	50	1.295	1.295	(0.269)	547162	100.000	102.14
4	Propionitrile	54	4.339	4.339	(0.901)	363102	1000.00	961.52
5	Vinyl Chloride	62	1.378	1.378	(0.286)	261508	100.000	107.61
6	Bromomethane	94	1.610	1.610	(0.334)	76630	100.000	95.23
7	Chloroethane	64	1.696	1.696	(0.352)	174779	100.000	97.70
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	297796	100.000	101.61
9	Acrolein	56	2.266	2.266	(0.471)	17482	200.000	196.09
10	Acetone	43	2.412	2.412	(0.501)	182728	200.000	203.11
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	185214	100.000	107.43
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	728054	2000.00	1886.26
13	Acetonitrile	39	2.671	2.671	(0.555)	246410	1000.00	990.43
14	Allyl Chloride	41	2.671	2.671	(0.555)	616918	100.000	99.47
15	Iodomethane	142	2.465	2.465	(0.512)	66220	200.000	199.83
16	Acrylonitrile	53	3.068	3.068	(0.637)	183711	200.000	206.92
17	Methylene Chloride	84	2.791	2.791	(0.580)	234030	100.000	101.48
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	604010	100.000	95.92
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1159938	200.000	221.30
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	206085	100.000	100.56

21 Vinyl Acetate	43	4.343	4.343 (0.902)	274442	200.000	206.10
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	378971	100.000	100.31

	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)	72849	100.000	100.23(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	269504	200.000	196.85
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	156933	100.000	102.45(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	305383	100.000	105.18
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	244227	100.000	98.76
	28 Chloroform	83	4.571	4.571	(0.949)	386542	100.000	100.48
	29 Bromochloromethane	128	4.470	4.470	(0.928)	113680	100.000	93.28
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	203479	100.000	101.94
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	318054	100.000	101.29
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	296320	100.000	108.48
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	299998	100.000	98.38
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	258920	100.000	101.42(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	236601	100.000	98.57
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	448123	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	902820	100.000	99.66
	38 Trichloroethene	130	5.786	5.786	(1.043)	234269	100.000	106.62
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	288067	100.000	108.78
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	87823	100.000	96.12
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	327994	200.000	221.90
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	237178	100.000	97.09(M)
	43 2-Nitropropane	43	6.573	6.573	(1.365)	192718	100.000	110.68(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	144129	100.000	98.98
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	581248	200.000	200.51
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	372505	100.000	108.61
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	402916	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	763641	100.000	99.90
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	304187	100.000	99.45
	50 Toluene	91	6.978	6.978	(0.853)	945622	100.000	99.28
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	316925	100.000	111.62
	52 2-Hexanone	43	7.589	7.589	(0.928)	405343	200.000	203.90
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	183564	100.000	100.77
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	394241	100.000	97.79
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	232842	100.000	99.04
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	182594	100.000	98.76
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	218143	100.000	102.67
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	204533	100.000	101.17
	59 Chlorobenzene	112	8.208	8.208	(1.003)	605247	100.000	97.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	217062	100.000	106.34
	61 Ethylbenzene	106	8.305	8.305	(1.015)	314071	100.000	104.24
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	785608	200.000	206.78
	63 o-Xylene	106	8.744	8.744	(1.069)	385378	100.000	101.41
	64 Styrene	104	8.759	8.759	(1.071)	687733	100.000	104.38
	66 Bromoform	173	8.916	8.916	(1.090)	163070	100.000	101.23
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	970670	100.000	107.17
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	316601	100.000	99.32
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	281922	100.000	95.79
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	215682	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	353128	100.000	103.95(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	80294	100.000	105.76
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1098188	100.000	105.23
	74 Bromobenzene	156	9.314	9.314	(0.916)	266207	100.000	100.83
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	806378	100.000	103.11

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	666366	100.000	98.45
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	785215	100.000	100.81

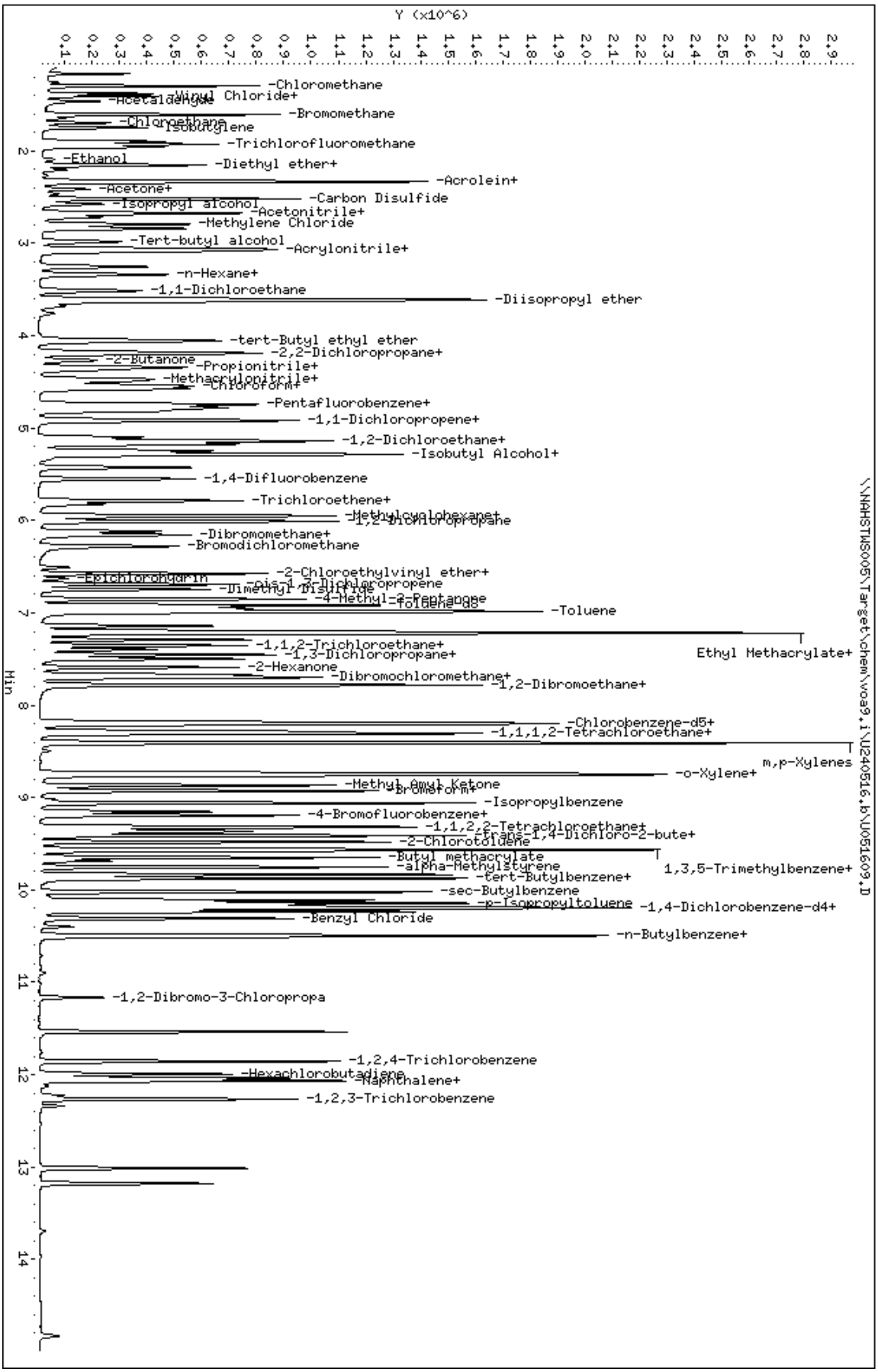
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	680406	100.000	108.98
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	804949	100.000	99.56
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	938815	100.000	110.81
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	833760	100.000	107.75
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	487016	100.000	96.24
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	487016	100.000	96.24
86	Benzyl Chloride	91	10.307	10.307	(1.260)	648793	100.000	101.33
87	n-Butylbenzene	91	10.491	10.491	(1.032)	751393	100.000	101.36
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	457379	100.000	97.49
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	50986	100.000	108.15
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	328494	100.000	101.41
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	131823	100.000	100.15
92	Naphthalene	128	12.065	12.065	(1.187)	792093	100.000	100.10
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	285884	100.000	100.81
146	Methyl acetate	43	2.716	2.716	(0.564)	219319	100.000	94.57
138	Freon TF	101	2.334	2.334	(0.485)	358690	100.000	101.25
141	Cyclohexane	56	4.781	4.781	(0.993)	327890	100.000	101.25
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	90366	200.000	203.72
147	Methylcyclohexane	55	5.943	5.943	(1.071)	581622	100.000	108.82(A)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	52580	2000.00	2055.64
132	n-Butanol	56	5.824	5.824	(1.209)	133691	2000.00	1914.74
136	n-Hexane	57	3.338	3.338	(0.693)	239677	100.000	101.85
139	Diethyl ether	59	2.146	2.146	(0.446)	169177	100.000	97.03
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	376314	2000.00	1884.13
149	Isopropyl alcohol	45	2.573	2.573	(0.534)	285047	2000.00	1834.42
152	Amyl alcohol	42	7.398	7.398	(0.904)	153316	2000.00	2142.01
156	Diisopropyl ether	45	3.623	3.623	(0.752)	720352	100.000	97.27
162	Butyl acrylate	55	8.729	8.729	(1.067)	527686	100.000	106.53
187	n-Amyl acetate	43	8.927	8.927	(1.091)	489134	100.000	104.57
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	934060	100.000	103.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	710236	100.000	96.58
167	Ethanol	45	2.094	2.094	(0.435)	49014	2000.00	2027.06
172	tert-Butyl formate	59	5.246	5.246	(1.090)	440646	200.000	196.48
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	560480	2000.00	2026.15
174	tert-Amyl methyl ether	73	5.287	5.287	(1.098)	703421	100.000	97.25
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	688714	100.000	98.94
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	440646	2000.00	2002.02
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	1635009	2000.00	2063.13
140	1,3-Butadiene	54	1.404	1.404	(0.292)	116728	100.000	102.17
182	Epichlorohydrin	57	6.630	6.630	(1.195)	78256	400.000	396.38
M 94	1,2-Dichloroethylene (total)	96				450312	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	358987	100.000	107.39
130	Ethyl Acetate	43	4.343	4.343	(0.902)	274442	100.000	103.48
131	Methyl Acrylate	55	4.369	4.369	(0.907)	294009	100.000	96.30
189	n-Butyl acetate	43	7.702	7.702	(0.941)	455243	100.000	103.32
134	Cyclohexanone	55	9.152	9.152	(0.900)	242238	2000.00	1805.28
185	Isoprene	39	2.154	2.154	(0.447)	52546	100.000	99.91
188	Isopropyl acetate	43	5.284	5.284	(0.952)	727810	100.000	98.69
150	Allyl alcohol	57	3.338	3.338	(0.693)	239677	2000.00	2037.04
194	Acetaldehyde	44	1.460	1.460	(0.303)	167368	400.000	416.45(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	593114	100.000	102.56
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	275130	100.000	105.19

202 Isobutylene	41	1.749	1.749 (0.363)	102024	100.000	105.54(TM)
133 Ethyl Acrylate	55	5.943	5.943 (1.234)	581622	100.000	107.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	305066	100.000	102.67
159 Propylene oxide	43	2.202	2.202	(0.457)	40594	200.000	203.67(A)
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	287686	100.000	103.41

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 (x10^6)
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 2.9
Min
1 2 3 4 5 6 7 8 9 10 11 12 13 14
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane
-Isobutylene
-Trichlorofluoromethane
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone+
-Carbon Disulfide
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-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+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-Butyl methacrylate
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1

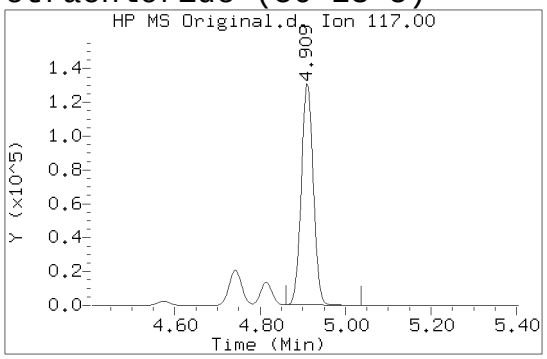
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LabSampID : VSTD100

Carbon Tetrachloride (56-23-5)

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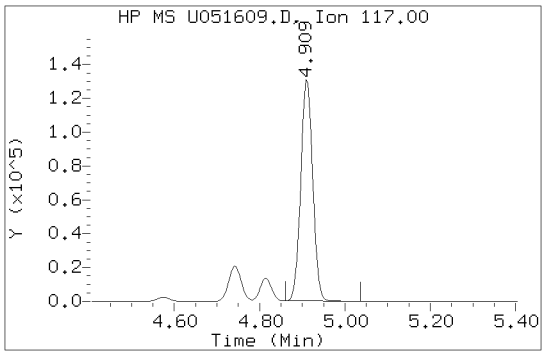
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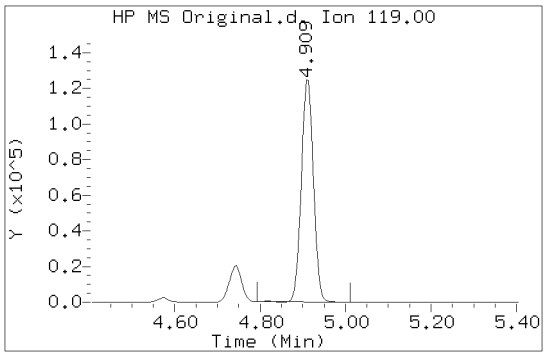
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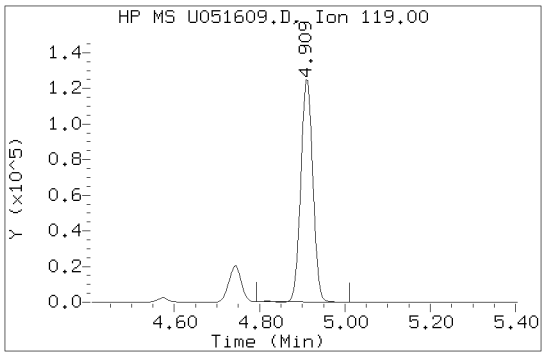
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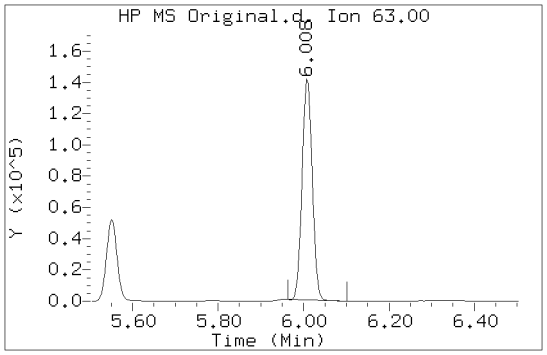


1,2-Dichloropropane (78-87-5)

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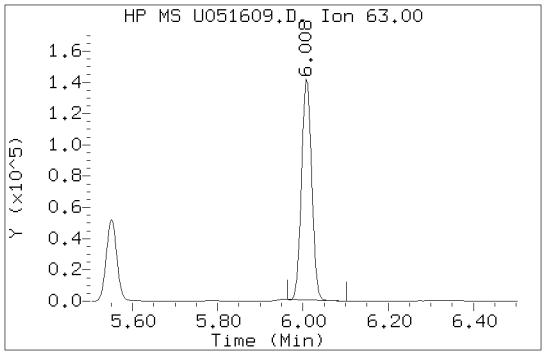
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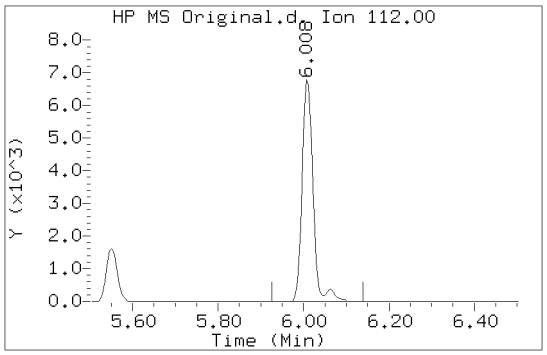
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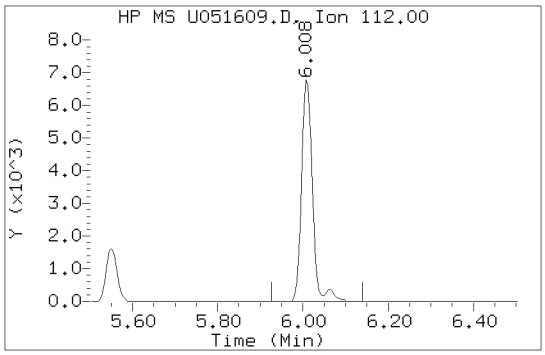
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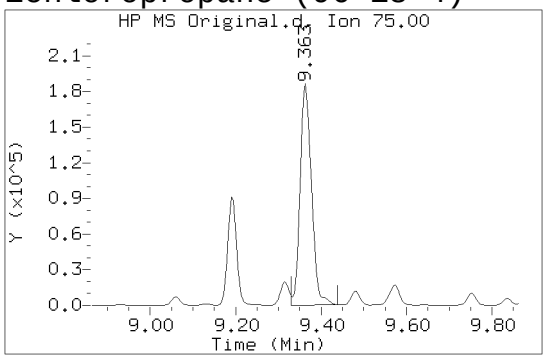
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InstruID : VOA9.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

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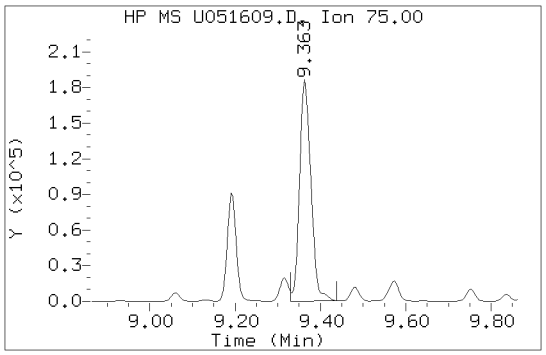
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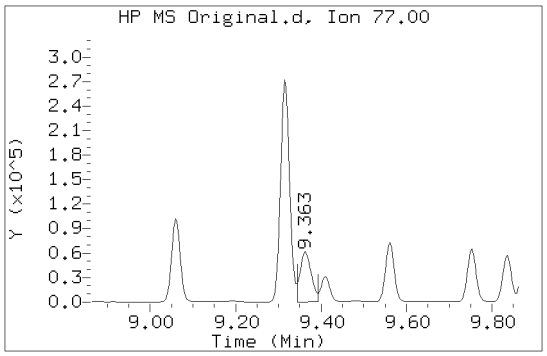
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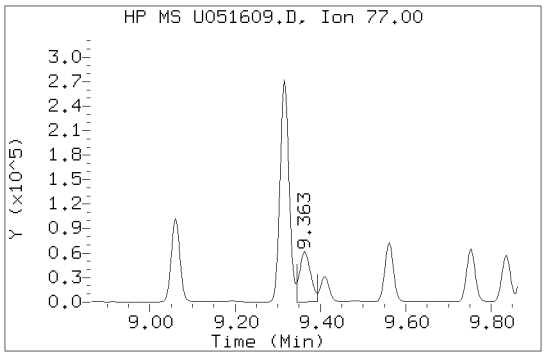
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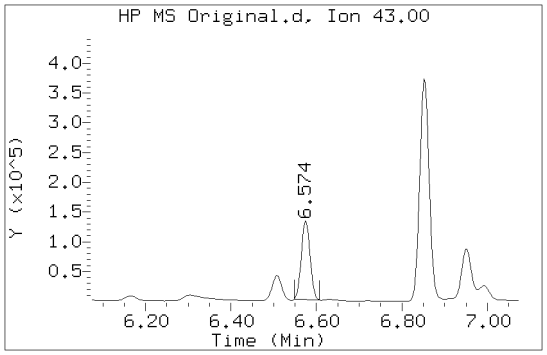


2-Nitropropane (79-46-9)

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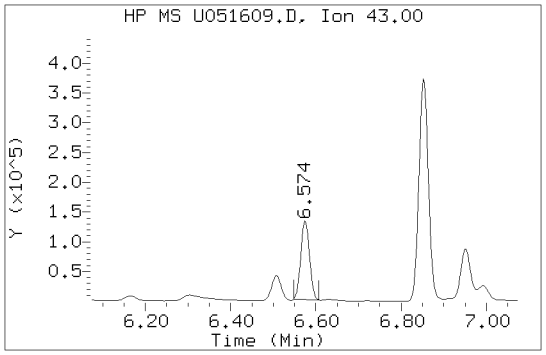
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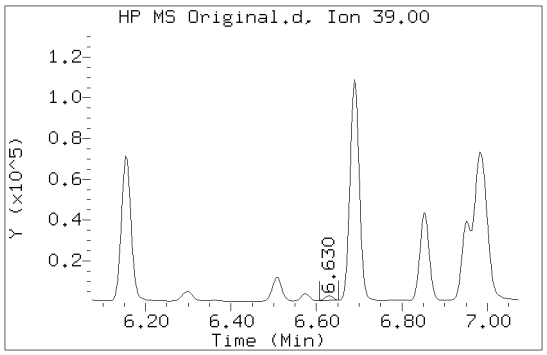
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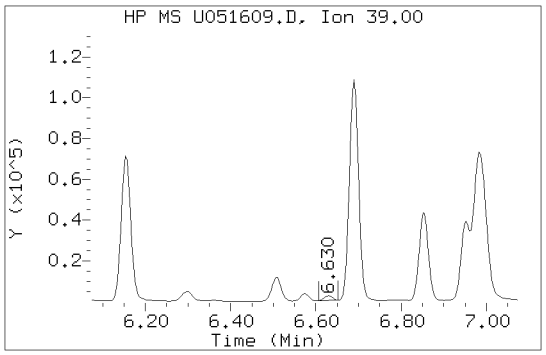
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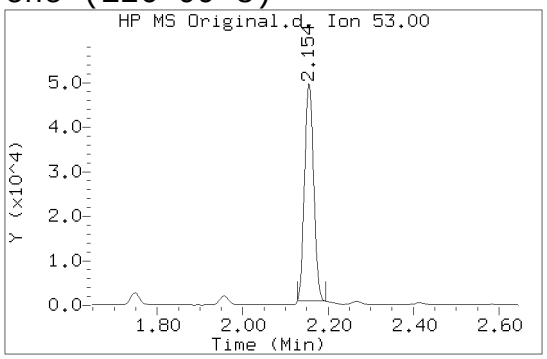
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LabSampID : VSTD100

Chloroprene (126-99-8)

Reason Code:

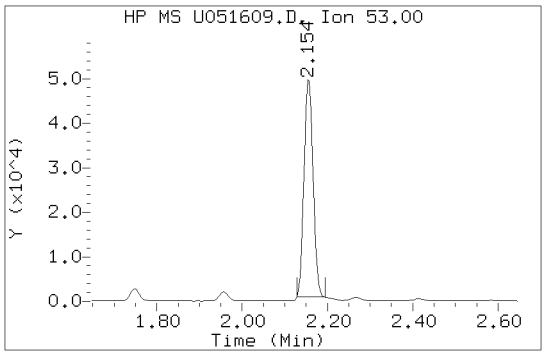
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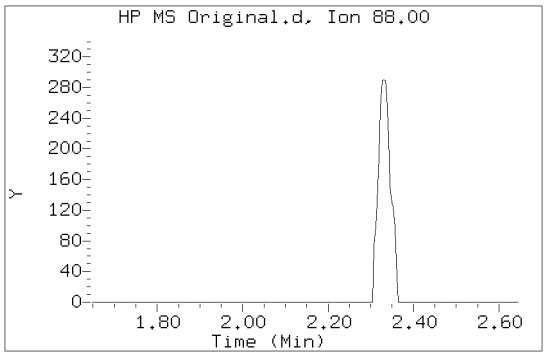
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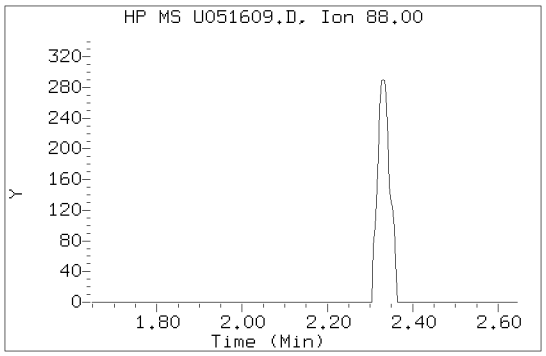
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AFTER

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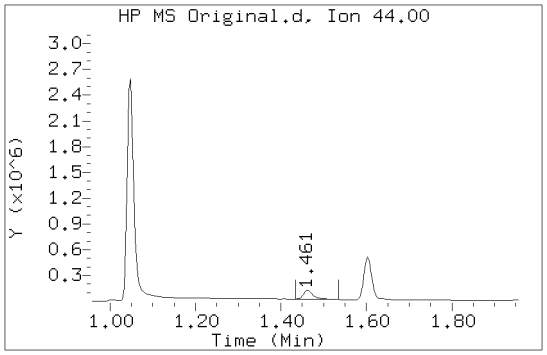


Acetaldehyde (75-07-0)

Reason Code:

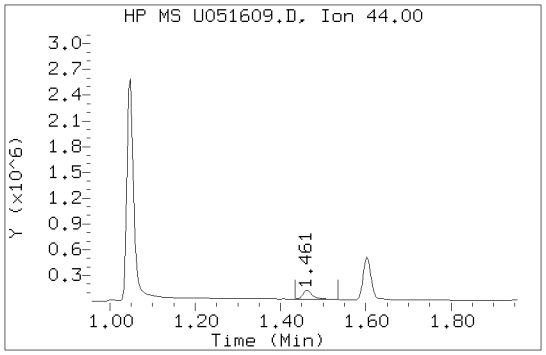
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patel



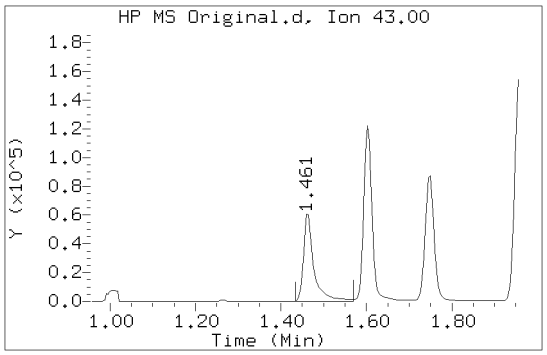
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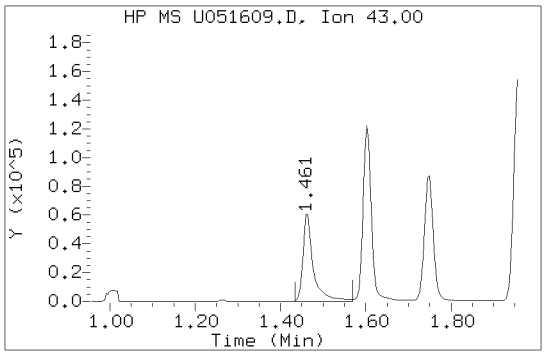
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AFTER

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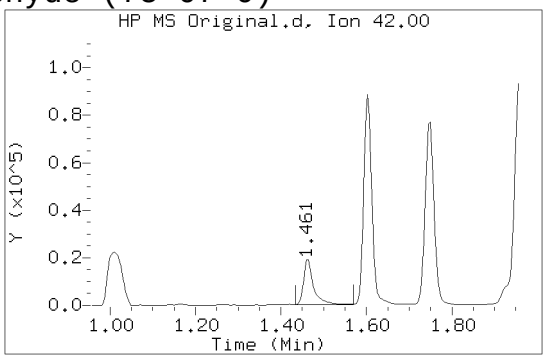
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LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

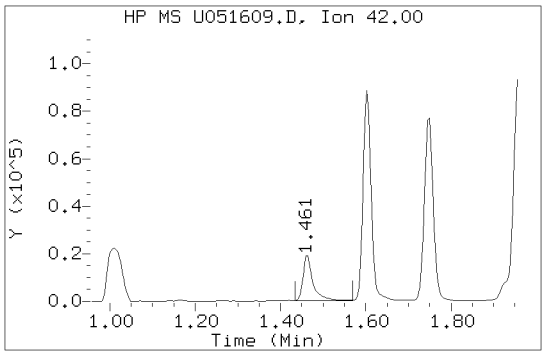
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AFTER

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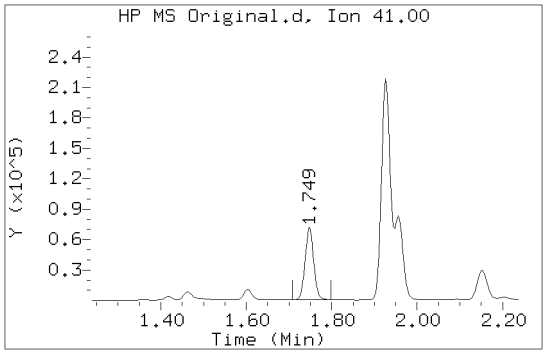


Isobutylene (115-11-7)

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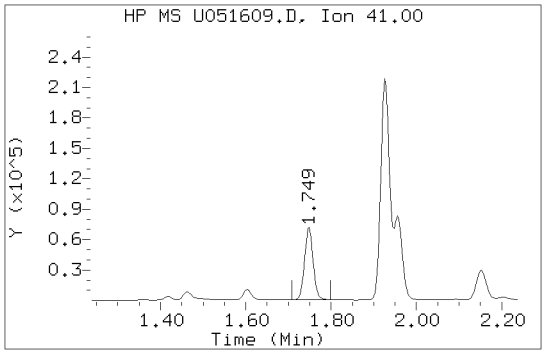
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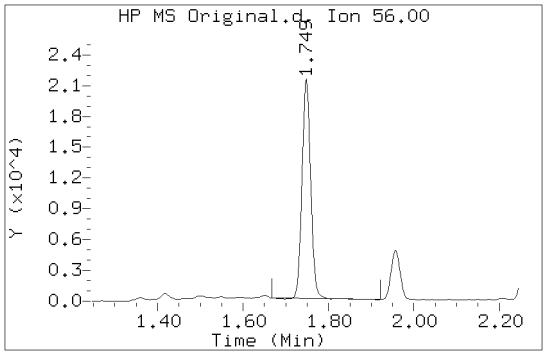
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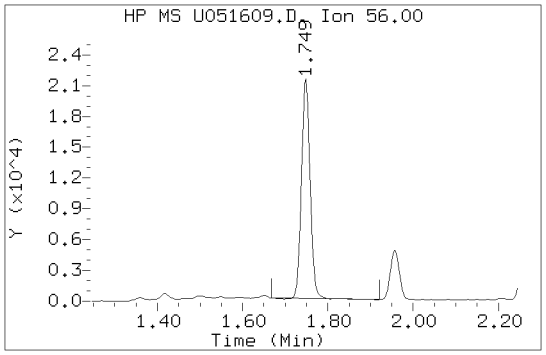
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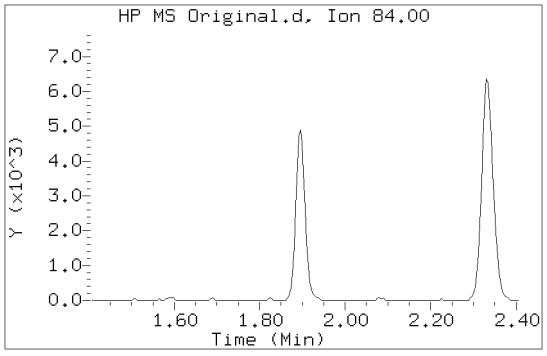
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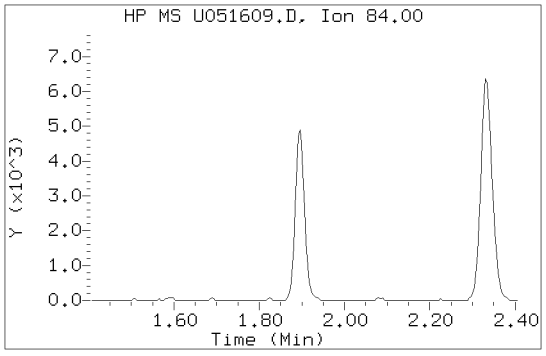
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patel



AFTER

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HEIGHT
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07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051610.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051610.D
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Inj Date : 16-MAY-2024 15:11
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 14:50 Cal File: U051609.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.811	4.811	(1.000)	307367	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	254862	150.000	147.86
3	Chloromethane	50	1.291	1.291	(0.268)	759795	150.000	147.93
4	Propionitrile	54	4.339	4.339	(0.902)	516527	1500.00	1359.14
5	Vinyl Chloride	62	1.370	1.370	(0.285)	390609	150.000	159.73
6	Bromomethane	94	1.599	1.599	(0.332)	116067	150.000	143.92(M)
7	Chloroethane	64	1.689	1.689	(0.351)	266216	150.000	147.40
8	Trichlorofluoromethane	101	1.887	1.887	(0.392)	439692	150.000	147.96
9	Acrolein	56	2.262	2.262	(0.470)	26637	300.000	299.35
10	Acetone	43	2.408	2.408	(0.501)	261279	300.000	287.62
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	276117	150.000	159.14
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1174369	3000.00	3023.31
13	Acetonitrile	39	2.667	2.667	(0.554)	351644	1500.00	1404.46
14	Allyl Chloride	41	2.667	2.667	(0.554)	872096	150.000	139.72
16	Acrylonitrile	53	3.065	3.065	(0.637)	255899	300.000	289.78
17	Methylene Chloride	84	2.787	2.787	(0.579)	339564	150.000	147.59
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	862674	150.000	136.13
19	Carbon Disulfide	76	2.513	2.513	(0.522)	1733419	300.000	328.62
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	305375	150.000	148.06
21	Vinyl Acetate	43	4.339	4.339	(0.902)	395863	300.000	295.40

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	557501	150.000	146.63
23 Chloroprene	53	2.150	2.150 (0.447)	113664	150.000	149.38

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.264	4.264	(0.886)	393821	300.000	285.83
	25	Methacrylonitrile	41	4.493	4.493	(0.934)	211010	150.000	136.88(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	451314	150.000	154.46
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	359997	150.000	144.65
	28	Chloroform	83	4.568	4.568	(0.949)	565433	150.000	146.05
	29	Bromochloromethane	128	4.467	4.467	(0.928)	165159	150.000	134.66
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	287897	150.000	143.33
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	476225	150.000	148.02
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	437940	150.000	160.79
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	439318	150.000	144.50
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	392459	150.000	149.19
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	331054	150.000	137.05
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	446814	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	1333118	150.000	147.59
	38	Trichloroethene	130	5.786	5.786	(1.043)	346173	150.000	158.01
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	427422	150.000	161.88
	40	Methyl Methacrylate	41	5.824	5.824	(1.210)	125056	150.000	136.00
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	488915	300.000	331.74
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	354738	150.000	145.64
	43	2-Nitropropane	43	6.573	6.573	(1.366)	305106	150.000	174.12
	44	Dibromomethane	93	6.116	6.116	(1.102)	212608	150.000	146.44
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	843973	300.000	291.72
	46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	552499	150.000	161.56
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	402117	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	1075723	150.000	141.01
	49	Ethyl Methacrylate	69	7.218	7.218	(1.301)	442675	150.000	145.16
	50	Toluene	91	6.978	6.978	(0.853)	1384199	150.000	145.62
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	470436	150.000	166.18
	52	2-Hexanone	43	7.589	7.589	(0.928)	587923	300.000	296.33
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	264728	150.000	145.62
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	574031	150.000	142.67
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	347940	150.000	147.58
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	272925	150.000	147.59
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	315769	150.000	148.92
	58	1-Chlorohexane	55	8.196	8.196	(1.477)	304200	150.000	147.65
	59	Chlorobenzene	112	8.208	8.208	(1.003)	891277	150.000	143.22
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	323409	150.000	158.76
	61	Ethylbenzene	106	8.305	8.305	(1.015)	468209	150.000	155.71
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	1164324	300.000	307.08
	63	o-Xylene	106	8.744	8.744	(1.069)	572065	150.000	150.84
	64	Styrene	104	8.759	8.759	(1.071)	1010054	150.000	153.61
	66	Bromoform	173	8.916	8.916	(1.090)	247663	150.000	148.33
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	1437321	150.000	159.00
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	460295	150.000	144.41
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	395969	150.000	134.80
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	215667	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	521191	150.000	153.44(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	118332	150.000	156.18
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	1628772	150.000	156.08
	74	Bromobenzene	156	9.314	9.314	(0.916)	393662	150.000	149.12
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1194291	150.000	152.72
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	974377	150.000	143.96

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1152863	150.000	148.03
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1006835	150.000	161.27

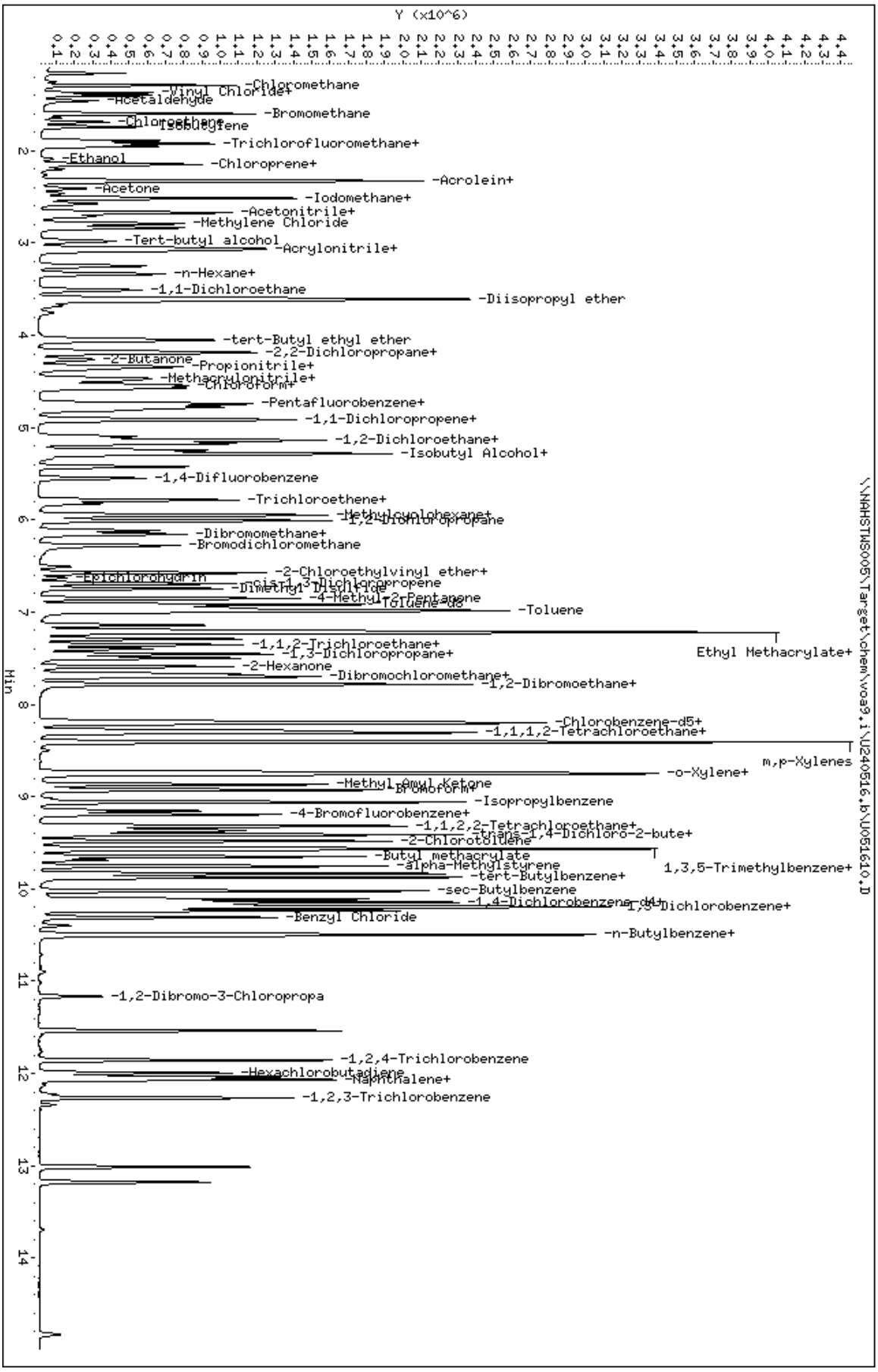
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1177892	150.000	145.88
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1376499	150.000	162.48
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1230238	150.000	159.00
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	716379	150.000	141.57
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	716379	150.000	141.57
86	Benzyl Chloride	91	10.307	10.307	(1.260)	895771	150.000	147.94
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1105501	150.000	146.70
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	669487	150.000	142.71
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	74246	150.000	157.50
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	482017	150.000	148.81
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	199038	150.000	147.73
92	Naphthalene	128	12.065	12.065	(1.187)	1155861	150.000	146.08
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	416629	150.000	146.93
146	Methyl acetate	43	2.712	2.712	(0.564)	320154	150.000	137.18
138	Freon TF	101	2.326	2.326	(0.483)	525144	150.000	146.94
141	Cyclohexane	56	4.778	4.778	(0.993)	487776	150.000	147.66
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	130011	300.000	294.74
147	Methylcyclohexane	55	5.944	5.944	(1.071)	845398	150.000	158.64(A)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	73656	3000.00	2945.11
132	n-Butanol	56	5.824	5.824	(1.210)	191341	3000.00	2723.06
136	n-Hexane	57	3.334	3.334	(0.693)	352622	150.000	147.59
139	Diethyl ether	59	2.142	2.142	(0.445)	241785	150.000	137.80
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	529483	3000.00	2634.23
149	Isopropyl alcohol	45	2.573	2.573	(0.535)	401269	3000.00	2566.00
152	Amyl alcohol	42	7.398	7.398	(0.904)	218734	3000.00	3062.06
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1028904	150.000	138.05
162	Butyl acrylate	55	8.729	8.729	(1.067)	772281	150.000	156.22
187	n-Amyl acetate	43	8.927	8.927	(1.091)	728330	150.000	156.02
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1352367	150.000	149.95
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1019272	150.000	138.62
167	Ethanol	45	2.090	2.090	(0.434)	72293	3000.00	2934.26
172	tert-Butyl formate	59	5.246	5.246	(1.090)	633003	300.000	280.46(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	806236	3000.00	2920.35
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	998692	150.000	137.21
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.842)	987246	150.000	140.92
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	633003	3000.00	2857.75
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2382359	3000.00	3014.98
140	1,3-Butadiene	54	1.400	1.400	(0.291)	170571	150.000	147.53
182	Epichlorohydrin	57	6.630	6.630	(1.195)	112916	600.000	573.62
M 94	1,2-Dichloroethylene (total)	96				665372	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	529333	150.000	158.36
130	Ethyl Acetate	43	4.339	4.339	(0.902)	395863	150.000	148.32
131	Methyl Acrylate	55	4.365	4.365	(0.907)	421013	150.000	137.03
189	n-Butyl acetate	43	7.702	7.702	(0.941)	675073	150.000	153.52
134	Cyclohexanone	55	9.152	9.152	(0.900)	335421	3000.00	2499.91
185	Isoprene	39	2.150	2.150	(0.447)	76991	150.000	145.46
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1166583	150.000	158.65
150	Allyl alcohol	57	3.334	3.334	(0.693)	352622	3000.00	2951.98
194	Acetaldehyde	44	1.456	1.456	(0.303)	236664	600.000	573.11(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.084)	859879	150.000	148.98
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	449583	150.000	148.35
202	Isobutylene	41	1.741	1.741	(0.362)	144290	150.000	145.41(M)

133 Ethyl Acrylate	55	5.944	5.944 (1.235)	845398	150.000	154.69
163 Butyl methacrylate	41	9.647	9.647 (0.949)	436263	150.000	146.84

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.199	2.199	(0.457)	58881	300.000	296.92(A)
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	410272	150.000	146.26

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\voa9,i\U240516,b\U051610,D
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
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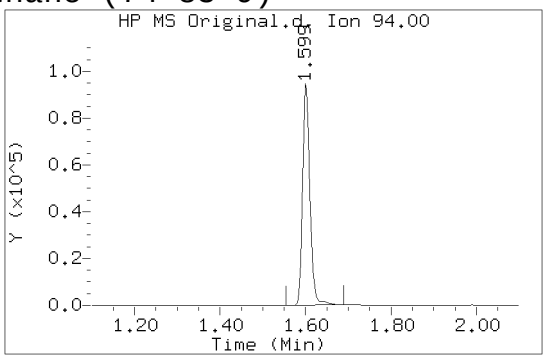
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Inj Date : 16-MAY-2024 15:11
InstruID : VOA9.i
LabSampID : VSTD150

Bromomethane (74-83-9)

Reason Code:

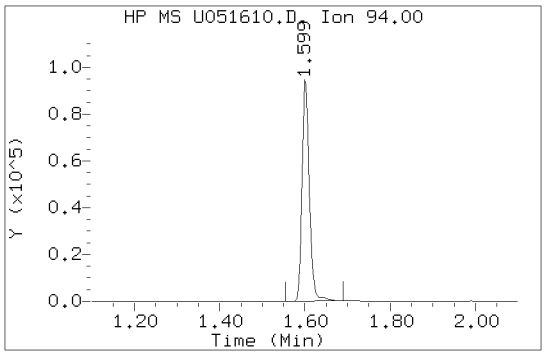
BEFORE

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07-Jun-2024
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patel



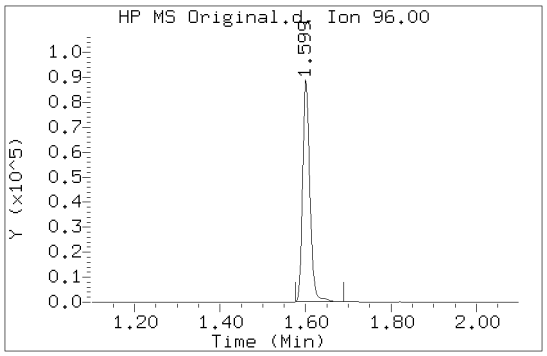
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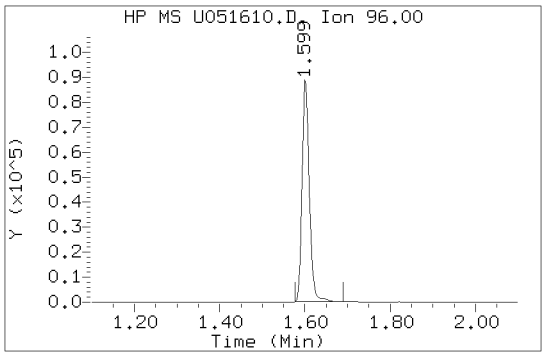
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AFTER

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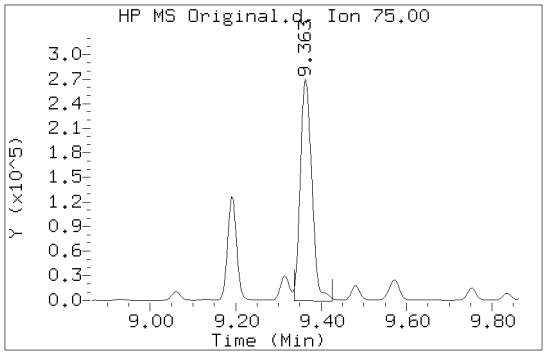


1,2,3-Trichloropropane (96-18-4)

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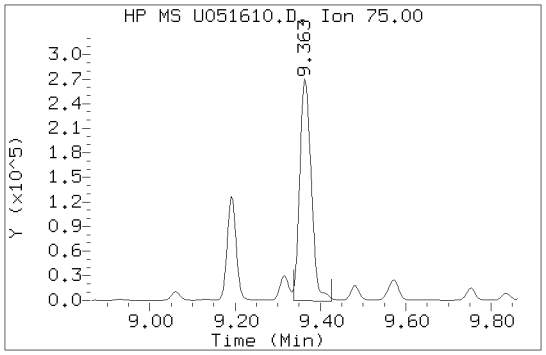
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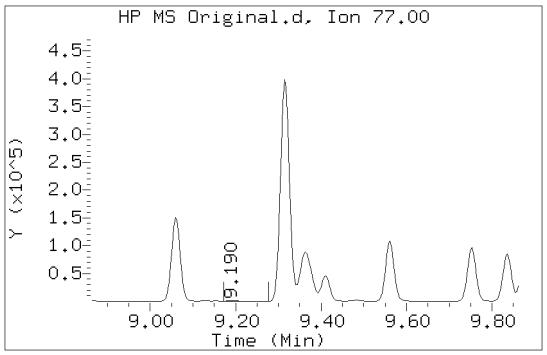
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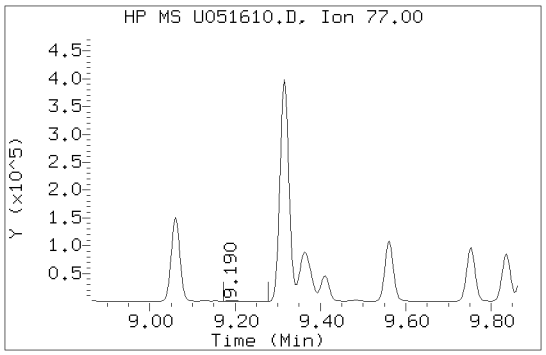
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AFTER

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HEIGHT
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patel



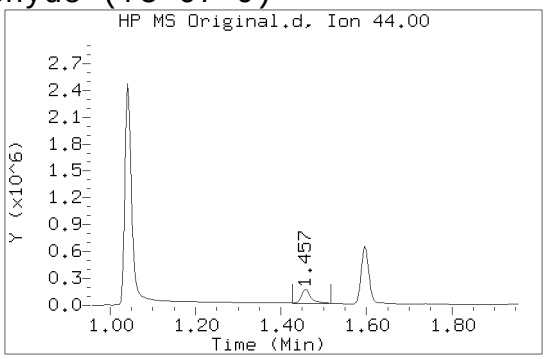
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Inj Date : 16-MAY-2024 15:11
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

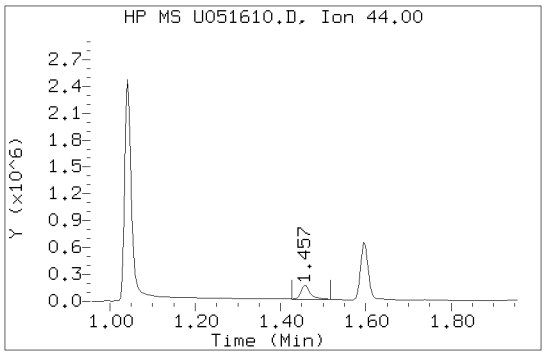
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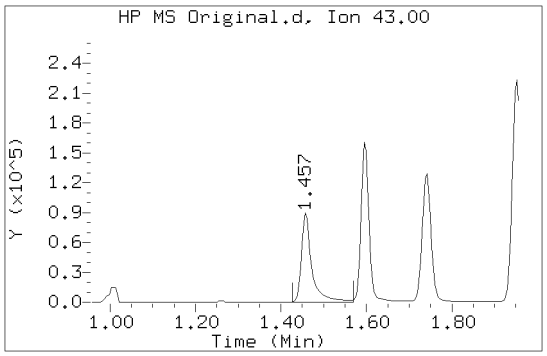
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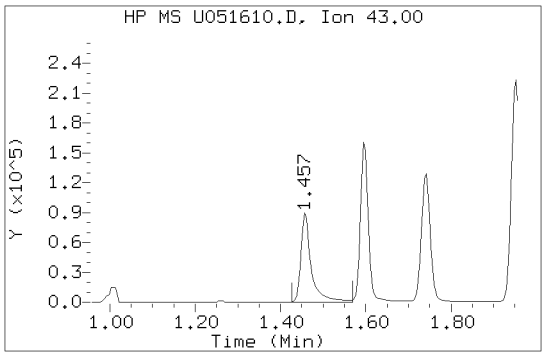
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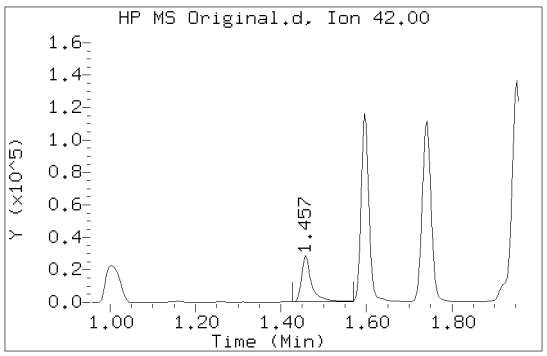
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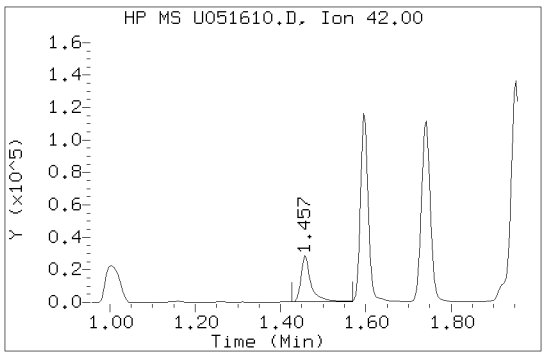
BEFORE

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28478
07-Jun-2024
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patel



AFTER

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HEIGHT
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07-Jun-2024
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rucha
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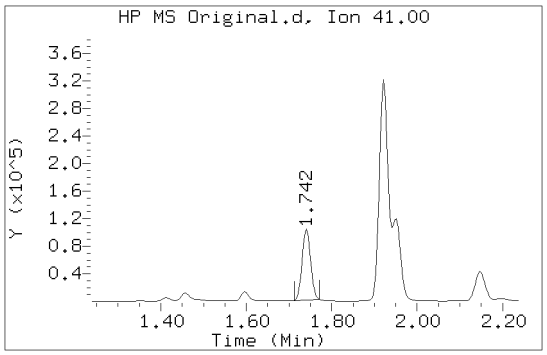


Isobutylene (115-11-7)

Reason Code:

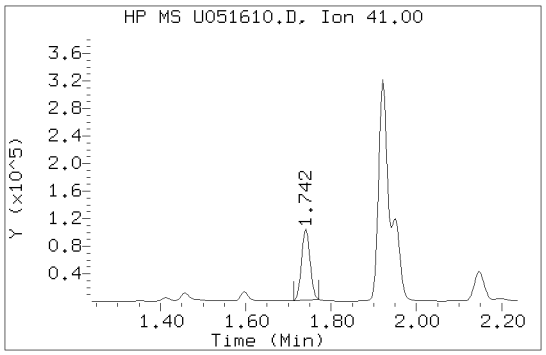
BEFORE

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41
AREA
144290
HEIGHT
103117
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
144290
HEIGHT
103117
07-Jun-2024
11:58
rucha
patel



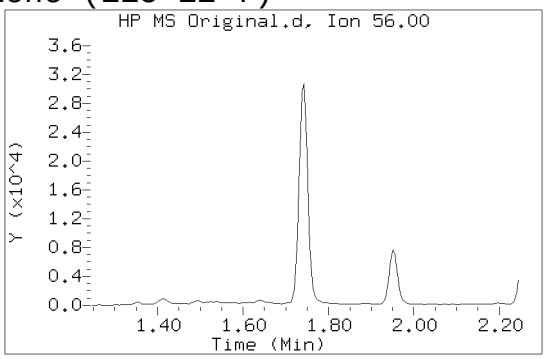
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Inj Date : 16-MAY-2024 15:11
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

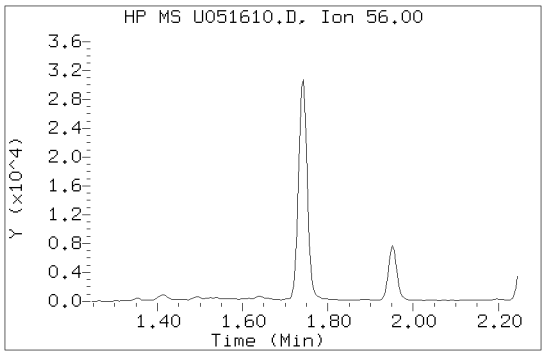
BEFORE

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11:58
rucha
patel



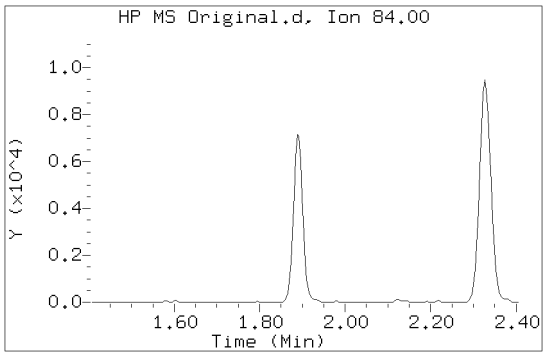
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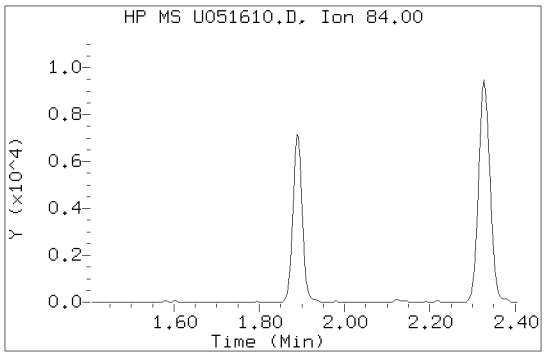
BEFORE

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07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
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HEIGHT
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07-Jun-2024
11:58
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051611.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051611.D
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Inj Date : 16-MAY-2024 15:33
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 : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 15:11 Cal File: U051610.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.819	4.819	(1.000)	297919	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	343075	200.000	200.65(A)
3	Chloromethane	50	1.303	1.303	(0.270)	958216	200.000	200.60(A)
4	Propionitrile	54	4.347	4.347	(0.902)	680077	2000.00	1846.25
5	Vinyl Chloride	62	1.381	1.381	(0.287)	524605	200.000	221.32(A)
6	Bromomethane	94	1.610	1.610	(0.334)	161273	200.000	206.83(AM)
7	Chloroethane	64	1.696	1.696	(0.352)	355611	200.000	202.79(A)
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	582681	200.000	200.67(A)
9	Acrolein	56	2.274	2.274	(0.472)	34405	400.000	400.99(A)
10	Acetone	43	2.420	2.420	(0.502)	359817	400.000	404.65(A)
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	370876	200.000	220.54(A)
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	1562013	4000.00	4148.80(A)
13	Acetonitrile	39	2.678	2.678	(0.556)	446480	2000.00	1839.79
14	Allyl Chloride	41	2.678	2.678	(0.556)	1128397	200.000	186.52
16	Acrylonitrile	53	3.076	3.076	(0.638)	340253	400.000	403.39(A)
17	Methylene Chloride	84	2.798	2.798	(0.581)	444703	200.000	200.89(A)
18	Methyl tert-butyl ether	73	3.091	3.091	(0.641)	1126673	200.000	183.43
19	Carbon Disulfide	76	2.525	2.525	(0.524)	2319985	400.000	453.77(A)
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	407752	200.000	203.97(A)
21	Vinyl Acetate	43	4.347	4.347	(0.902)	531896	400.000	409.50(A)

22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	745580	200.000	202.31(A)
23 Chloroprene	53	2.161	2.161 (0.449)	154749	200.000	200.22(A)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.886)	530300	400.000	397.09
	25	Methacrylonitrile	41	4.500	4.500	(0.934)	287659	200.000	192.52(a)
	26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	601735	200.000	212.47(A)
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	481090	200.000	199.44
	28	Chloroform	83	4.575	4.575	(0.949)	754701	200.000	201.13(A)
	29	Bromochloromethane	128	4.474	4.474	(0.928)	214114	200.000	180.11
$	30	Dibromofluoromethane	113	4.752	4.752	(0.986)	385590	200.000	198.05
	31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	639124	200.000	200.69(A)
	32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	591159	200.000	222.30(A)
	33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	578455	200.000	194.87
	34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	533686	200.000	200.13(A)
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	444477	200.000	189.84
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	436257	50.0000	
	37	Benzene	78	5.141	5.141	(0.926)	1769181	200.000	200.61(A)
	38	Trichloroethene	130	5.790	5.790	(1.043)	467751	200.000	218.67(A)
	39	Bromodichloromethane	83	6.277	6.277	(1.130)	577141	200.000	223.87(A)
	40	Methyl Methacrylate	41	5.827	5.827	(1.209)	168449	200.000	189.01
	41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	668405	400.000	464.50(A)
	42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	473086	200.000	198.93
	43	2-Nitropropane	43	6.577	6.577	(1.365)	407525	200.000	239.94(AM)
	44	Dibromomethane	93	6.120	6.120	(1.102)	282067	200.000	198.98
	45	4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	1137833	400.000	403.35(A)
	46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	743611	200.000	222.71(A)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	392090	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	1451855	200.000	195.19
	49	Ethyl Methacrylate	69	7.222	7.222	(1.300)	598682	200.000	201.07
	50	Toluene	91	6.982	6.982	(0.853)	1849114	200.000	199.50
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	633833	200.000	229.32(A)
	52	2-Hexanone	43	7.593	7.593	(0.928)	800965	400.000	414.04(A)
	53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	353347	200.000	199.34
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	765984	200.000	195.25
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	466913	200.000	202.57(A)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	365420	200.000	202.42(A)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	424222	200.000	205.18(A)
	58	1-Chlorohexane	55	8.197	8.197	(1.476)	417188	200.000	200.85(A)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	1198749	200.000	197.56
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	434256	200.000	218.63(A)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	626923	200.000	213.83(A)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	1572401	400.000	425.31(A)
	63	o-Xylene	106	8.744	8.744	(1.068)	765517	200.000	207.01(A)
	64	Styrene	104	8.759	8.759	(1.070)	1365637	200.000	213.00(A)
	66	Bromoform	173	8.916	8.916	(1.089)	342027	200.000	200.53(A)
	67	Isopropylbenzene	105	9.063	9.063	(1.107)	1940237	200.000	220.13(A)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	619057	200.000	199.31
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	539168	200.000	188.25
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	210163	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	706295	200.000	213.38(A)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	164954	200.000	223.28(A)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	2212441	200.000	217.57(A)
	74	Bromobenzene	156	9.317	9.317	(0.916)	531038	200.000	206.42(A)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1612969	200.000	211.67(A)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	1336661	200.000	202.66(A)

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	1560488	200.000	205.62(A)
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1354805	200.000	222.70(A)

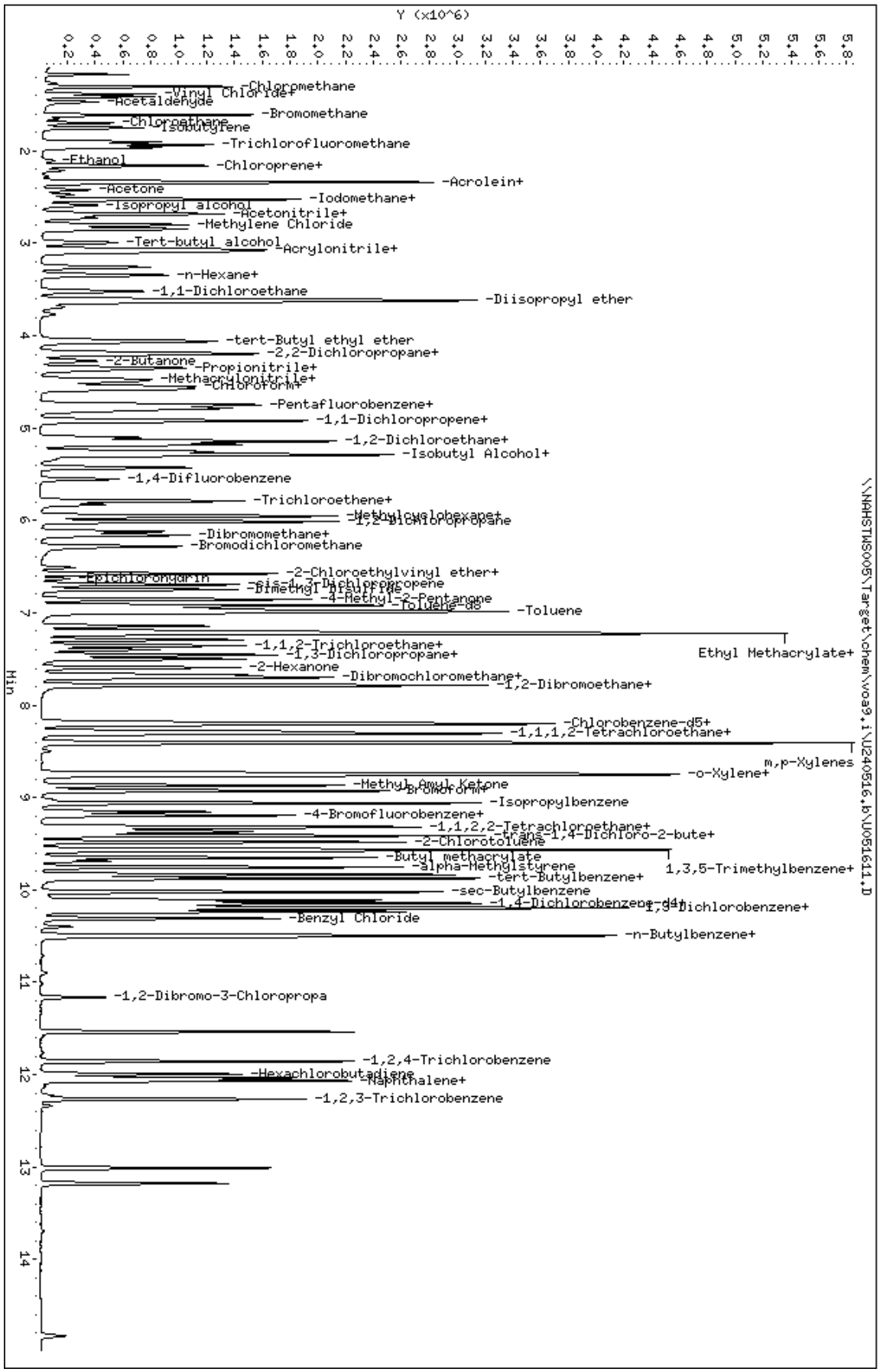
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1595372	200.000	202.91(A)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1854406	200.000	224.63(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1669597	200.000	221.44(A)
83	1,3-Dichlorobenzene	146	10.191	10.191	(1.002)	969245	200.000	196.56
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	969245	200.000	196.56
86	Benzyl Chloride	91	10.307	10.307	(1.259)	1179027	200.000	200.70(A)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1515098	200.000	201.22(A)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	914544	200.000	200.05(A)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	102666	200.000	223.49(A)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	667090	200.000	211.35(A)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	271511	200.000	200.97(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1575610	200.000	204.34(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	577886	200.000	209.14(A)
146	Methyl acetate	43	2.723	2.723	(0.565)	418794	200.000	185.14
138	Freon TF	101	2.337	2.337	(0.485)	700564	200.000	201.94(A)
141	Cyclohexane	56	4.785	4.785	(0.993)	655458	200.000	200.85(A)
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	169578	400.000	401.85(A)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	1116127	200.000	214.52(A)
135	1,4-Dioxane	88	6.169	6.169	(1.280)	94350	4000.00	4016.18(A)
132	n-Butanol	56	5.827	5.827	(1.209)	256937	4000.00	3772.55
136	n-Hexane	57	3.346	3.346	(0.694)	469585	200.000	200.79(A)
139	Diethyl ether	59	2.154	2.154	(0.447)	313799	200.000	184.51
148	Tert-butyl alcohol	59	2.990	2.990	(0.620)	704686	4000.00	3617.06
149	Isopropyl alcohol	45	2.589	2.589	(0.537)	531882	4000.00	3509.10
152	Amyl alcohol	42	7.398	7.398	(0.904)	301674	4000.00	4331.13(A)
156	Diisopropyl ether	45	3.631	3.631	(0.753)	1349952	200.000	186.87
162	Butyl acrylate	55	8.733	8.733	(1.067)	1046737	200.000	217.15(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	993111	200.000	218.18(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1741233	200.000	198.37(M)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1359251	200.000	189.70
167	Ethanol	45	2.105	2.105	(0.437)	97797	4000.00	4024.98(A)
172	tert-Butyl formate	59	5.254	5.254	(1.090)	849813	400.000	388.47(A)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	1109449	4000.00	4121.42(A)
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	1400760	200.000	198.55
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.842)	1301772	200.000	191.72
176	tert-Amyl alcohol	59	5.254	5.254	(1.090)	849813	4000.00	3958.23
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	3212299	4000.00	4163.69(A)
140	1,3-Butadiene	54	1.411	1.411	(0.293)	226455	200.000	200.78(A)
182	Epichlorohydrin	57	6.630	6.630	(1.194)	149520	800.000	777.95
M 94	1,2-Dichloroethylene (total)	96				888842	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	720853	200.000	221.30(A)
130	Ethyl Acetate	43	4.347	4.347	(0.902)	531896	200.000	205.62(A)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	556246	200.000	186.78
189	n-Butyl acetate	43	7.705	7.705	(0.941)	897427	200.000	209.31(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	461972	4000.00	3533.27
185	Isoprene	39	2.161	2.161	(0.449)	102595	200.000	199.98
188	Isopropyl acetate	43	5.288	5.288	(0.952)	1560020	200.000	217.30(A)
150	Allyl alcohol	57	3.346	3.346	(0.694)	469585	4000.00	4015.93(A)
194	Acetaldehyde	44	1.468	1.468	(0.305)	334705	800.000	808.27(AM)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1174386	200.000	208.68
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	638605	200.000	177.00
202	Isobutylene	41	1.749	1.749	(0.363)	198984	200.000	200.99(TAM)

133 Ethyl Acrylate	55	5.947	5.947 (1.234)	1127625	200.000	212.88(A)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	588876	200.000	203.40(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.210	2.210	(0.459)	76273	400.000	400.85(A)
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	556159	200.000	201.07(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\voa9,i\U240516,b\U051611,D
Date : 16-MAY-2024 15:33
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

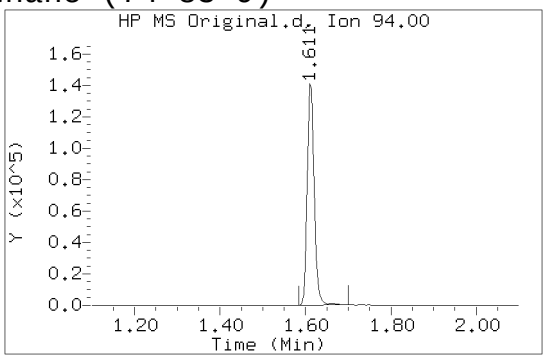
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Inj Date : 16-MAY-2024 15:33
InstruID : VOA9.i
LabSampID : VSTD200

Bromomethane (74-83-9)

Reason Code:

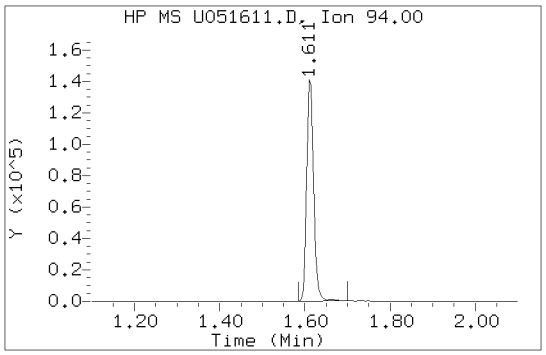
BEFORE

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94
AREA
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HEIGHT
140964
07-Jun-2024
11:58
rucha
patel



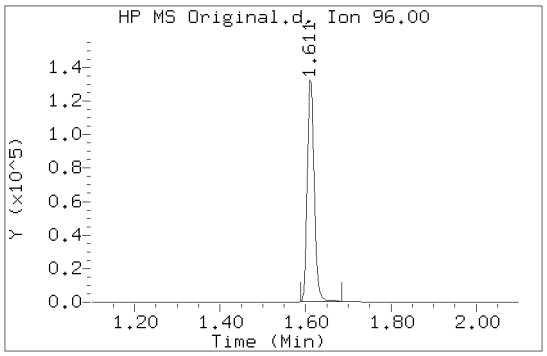
AFTER

MASS
94
AREA
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HEIGHT
140964
07-Jun-2024
11:58
rucha
patel



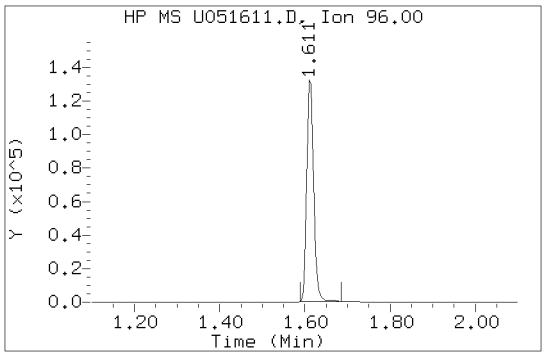
BEFORE

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96
AREA
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HEIGHT
132332
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
150782
HEIGHT
132332
07-Jun-2024
11:58
rucha
patel

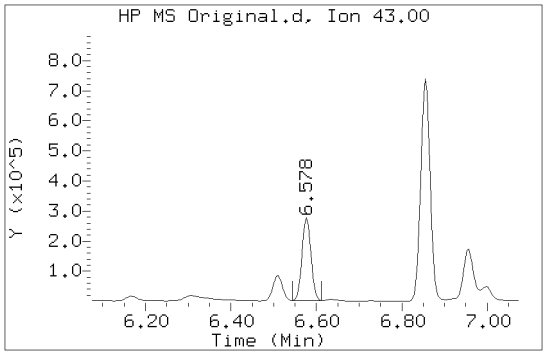


2-Nitropropane (79-46-9)

Reason Code:

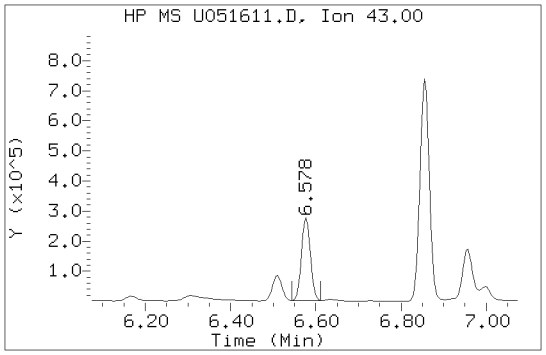
BEFORE

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43
AREA
407525
HEIGHT
275305
07-Jun-2024
11:58
rucha
patel



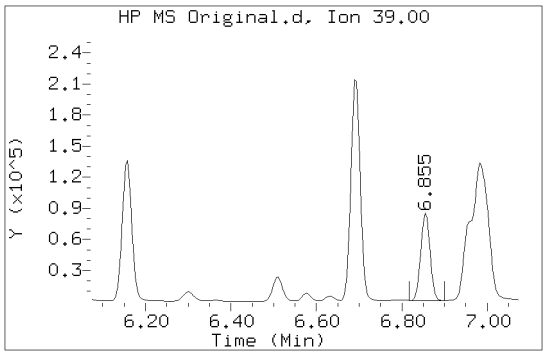
AFTER

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HEIGHT
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07-Jun-2024
11:58
rucha
patel



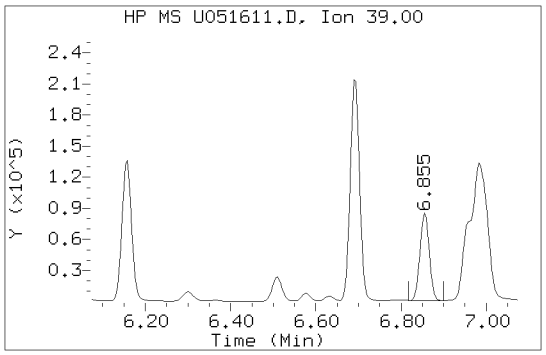
BEFORE

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39
AREA
128187
HEIGHT
84590
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
39
AREA
128187
HEIGHT
84590
07-Jun-2024
11:58
rucha
patel



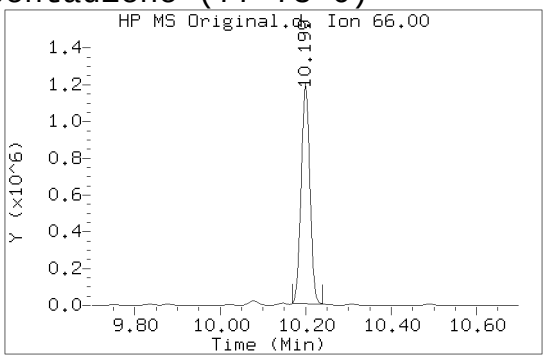
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Inj Date : 16-MAY-2024 15:33
InstruID : VOA9.i
LabSampID : VSTD200

Dicyclopentadiene (77-73-6)

Reason Code:

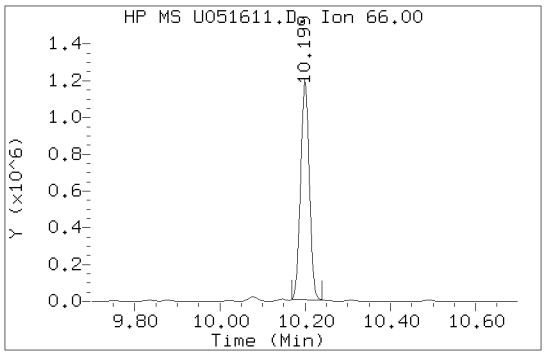
BEFORE

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66
AREA
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HEIGHT
1196025
07-Jun-2024
11:58
rucha
patel



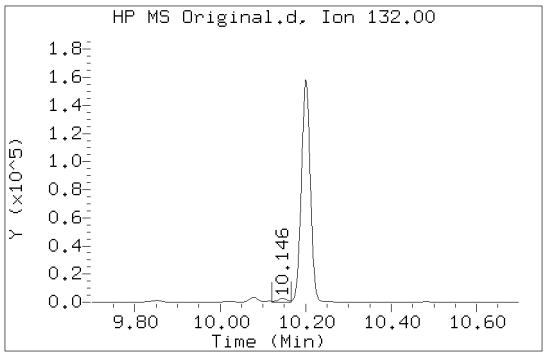
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AREA
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HEIGHT
1196025
07-Jun-2024
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rucha
patel



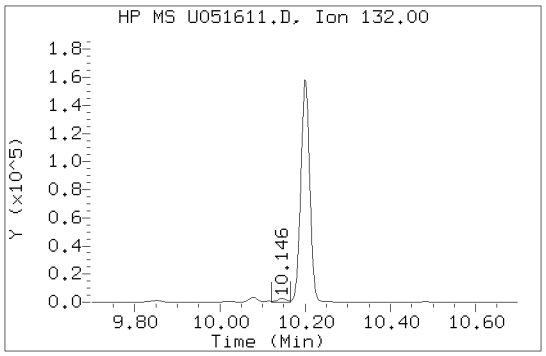
BEFORE

MASS
132
AREA
4182
HEIGHT
2628
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
132
AREA
4182
HEIGHT
2628
07-Jun-2024
11:58
rucha
patel

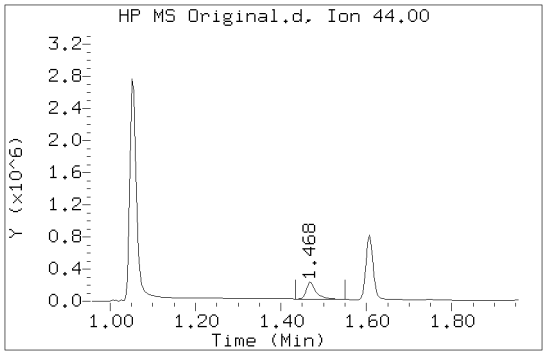


Acetaldehyde (75-07-0)

Reason Code:

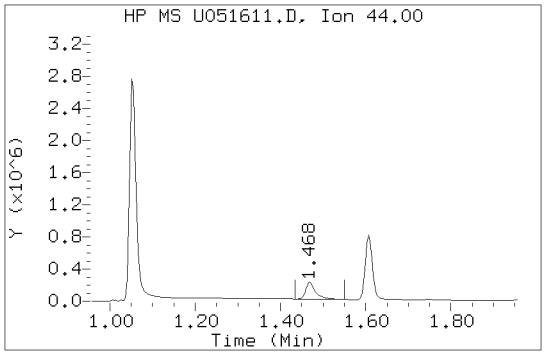
BEFORE

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AREA
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HEIGHT
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07-Jun-2024
11:58
rucha
patel



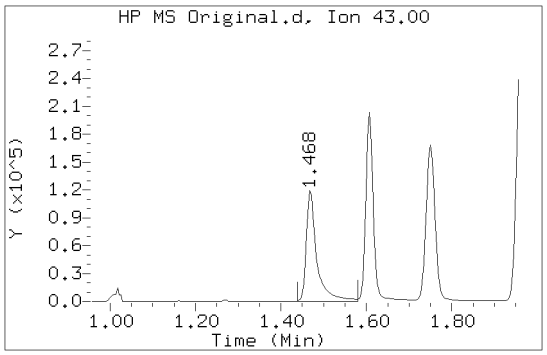
AFTER

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HEIGHT
210544
07-Jun-2024
11:58
rucha
patel



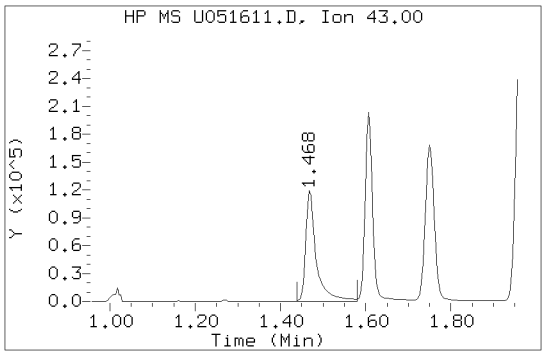
BEFORE

MASS
43
AREA
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HEIGHT
119672
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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AREA
206276
HEIGHT
119672
07-Jun-2024
11:58
rucha
patel



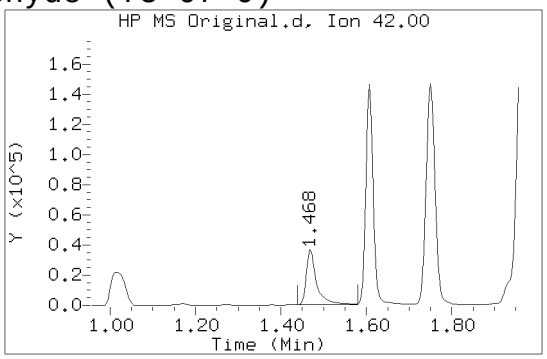
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Inj Date : 16-MAY-2024 15:33
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

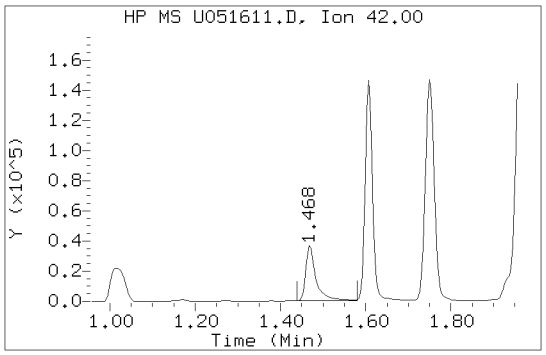
BEFORE

MASS
42
AREA
61769
HEIGHT
36660
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
42
AREA
61769
HEIGHT
36660
07-Jun-2024
11:58
rucha
patel

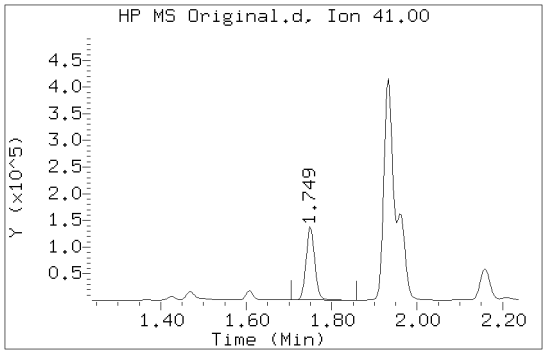


Isobutylene (115-11-7)

Reason Code:

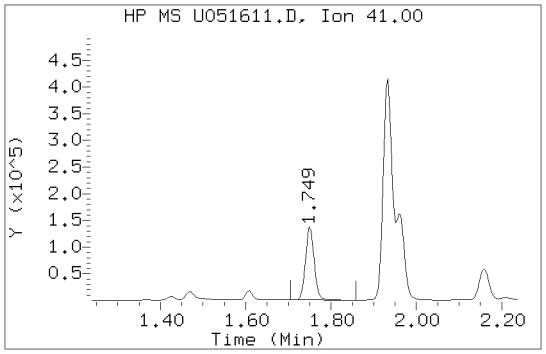
BEFORE

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41
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HEIGHT
137303
07-Jun-2024
11:58
rucha
patel



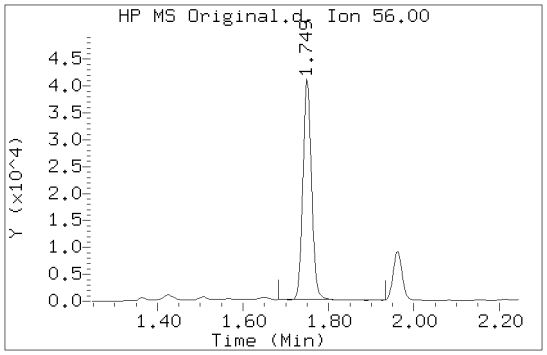
AFTER

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07-Jun-2024
11:58
rucha
patel



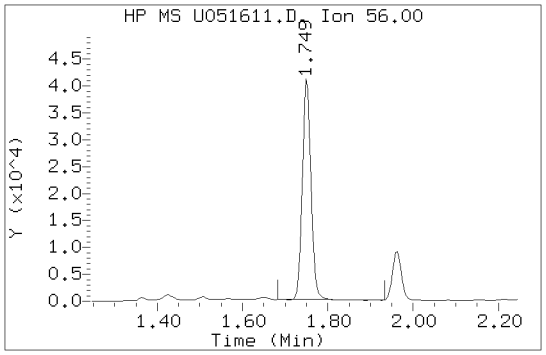
BEFORE

MASS
56
AREA
58789
HEIGHT
41025
07-Jun-2024
11:58
rucha
patel



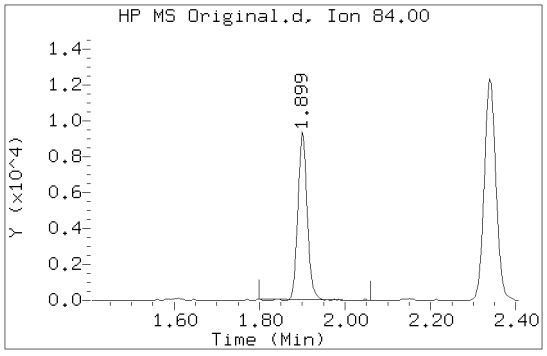
AFTER

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58789
HEIGHT
41025
07-Jun-2024
11:58
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patel



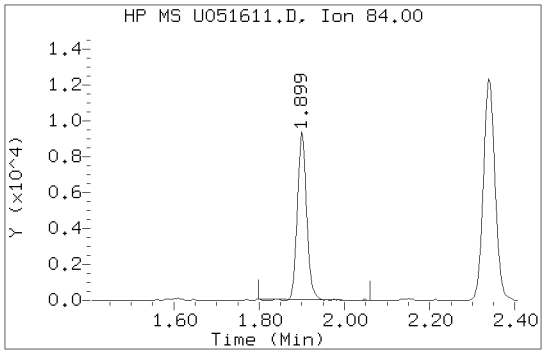
BEFORE

MASS
84
AREA
14274
HEIGHT
9336
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
84
AREA
14274
HEIGHT
9336
07-Jun-2024
11:58
rucha
patel



Data File: \\nahstws005\Target\chem\voa9.i\U240516.b\U051613.D Page 1
Report Date: 17-May-2024 10:36

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240516.b\U051613.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-MAY-2024 16:16
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\U240516.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: 13 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)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	73776			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	13641			15.00- 40.00	18.49
9.190	9.180	(0.000)	75	35384			30.00- 60.00	47.96
9.190	9.180	(0.000)	96	5275			5.00- 9.00	7.15
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	60288			50.00- 0.00	81.72
9.190	9.180	(0.000)	175	4986			5.00- 9.00	8.27
9.190	9.180	(0.000)	176	57568			95.00- 101.00	95.49
9.190	9.180	(0.000)	177	4140			5.00- 9.00	7.19

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051614.D Page 1
Report Date: 07-Jun-2024 11:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240516.b\U051614.D
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Inj Date : 16-MAY-2024 16:38
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240516.b\8260C.m
Meth Date : 07-Jun-2024 11:59 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 15:33 Cal File: U051611.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.819	(1.000)	308438	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.172	(0.242)	82194	49.6235	49.62
3 Chloromethane	50	1.295	1.303	(0.269)	266902	43.4060	43.40
4 Propionitrile	54	4.339	4.347	(0.901)	178091	466.987	466.98
5 Vinyl Chloride	62	1.378	1.381	(0.286)	128829	52.4987	52.49
6 Bromomethane	94	1.614	1.610	(0.335)	53867	65.9398	65.93(R)
7 Chloroethane	64	1.696	1.696	(0.352)	89498	49.9918	49.99
8 Trichlorofluoromethane	101	1.895	1.899	(0.394)	145953	49.8490	49.84
9 Acrolein	56	2.266	2.274	(0.471)	10753	117.905	117.90
10 Acetone	43	2.412	2.420	(0.501)	98548	107.474	107.47
11 1,1-Dichloroethene	96	2.330	2.337	(0.484)	92182	52.9470	52.94
12 Isobutyl Alcohol	43	5.284	5.288	(1.097)	361251	926.782	926.78
13 Acetonitrile	39	2.671	2.678	(0.555)	121141	482.156	482.15
14 Allyl Chloride	41	2.671	2.678	(0.555)	303000	48.3774	48.37
15 Iodomethane	142	2.465	2.472	(0.512)	52092	186.833	186.83(R)
16 Acrylonitrile	53	3.068	3.076	(0.637)	90102	98.5626	98.56
17 Methylene Chloride	84	2.791	2.798	(0.580)	119212	50.1885	50.18
18 Methyl tert-butyl ether	73	3.083	3.091	(0.640)	299209	47.0530	47.05
19 Carbon Disulfide	76	2.517	2.525	(0.523)	572495	108.159	108.15
20 trans-1,2-Dichloroethene	96	3.057	3.061	(0.635)	102332	49.4453	49.44

21 Vinyl Acetate	43	4.343	4.347 (0.902)	140680	104.616	104.61
22 1,1-Dichloroethane	63	3.511	3.518 (0.729)	192618	50.4859	50.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	2.157	2.161	(0.448)	36303	51.2422	51.24(M)
	24 2-Butanone	43	4.264	4.272	(0.886)	137314	99.3154	99.31
	25 Methacrylonitrile	41	4.493	4.500	(0.933)	73582	47.5680	47.56(a)
	26 2,2-Dichloropropane	77	4.182	4.185	(0.868)	144525	49.2921	49.29
	27 cis-1,2-Dichloroethene	96	4.197	4.200	(0.872)	123759	49.5571	49.55
	28 Chloroform	83	4.571	4.575	(0.949)	195342	50.2840	50.28
	29 Bromochloromethane	128	4.467	4.474	(0.928)	59309	48.1910	48.19
$	30 Dibromofluoromethane	113	4.748	4.752	(0.986)	101183	50.1995	50.19
	31 1,1,1-Trichloroethane	97	4.740	4.744	(0.984)	156418	50.3157	50.31
	32 1,1-Dichloropropene	75	4.920	4.924	(0.887)	146257	52.9440	52.94
	33 1,2-Dichloroethane	62	5.175	5.179	(0.932)	155332	50.3727	50.37
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	124908	50.2200	50.21
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	119028	49.1058	49.10
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	453196	50.0000	
	37 Benzene	78	5.138	5.141	(0.926)	457768	49.9674	49.96
	38 Trichloroethene	130	5.786	5.790	(1.043)	117345	52.8086	52.80
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	141636	52.8880	52.88
	40 Methyl Methacrylate	41	5.824	5.827	(1.209)	42631	46.2038	46.20
	41 2-Chloroethylvinyl ether	63	6.573	6.577	(1.184)	161768	108.219	108.21
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	122119	49.4334	49.43
	43 2-Nitropropane	43	6.573	6.577	(1.365)	100604	57.2144	57.21
	44 Dibromomethane	93	6.120	6.120	(1.103)	73923	50.2000	50.20
	45 4-Methyl-2-Pentanone	43	6.851	6.855	(0.837)	291920	99.2773	99.27
	46 cis-1,3-Dichloropropene	75	6.689	6.693	(1.205)	184591	53.2202	53.22
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	408702	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	378354	48.7991	48.79
	49 Ethyl Methacrylate	69	7.214	7.222	(1.300)	144761	46.8017	46.80
	50 Toluene	91	6.978	6.982	(0.853)	479318	49.6129	49.61
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	154569	53.8337	53.83
	52 2-Hexanone	43	7.589	7.593	(0.927)	206402	102.359	102.35
	53 1,1,2-Trichloroethane	83	7.353	7.357	(0.898)	93289	50.4906	50.49
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	201987	49.3958	49.39
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	115095	48.9996	48.99
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	91551	49.1558	49.15
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	111268	51.6298	51.62
	58 1-Chlorohexane	55	8.193	8.197	(1.476)	100595	49.6033	49.60
	59 Chlorobenzene	112	8.208	8.208	(1.003)	306520	48.4633	48.46
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	108634	52.4704	52.47
	61 Ethylbenzene	106	8.305	8.305	(1.015)	156952	51.3584	51.35
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	394475	102.364	102.36
	63 o-Xylene	106	8.744	8.744	(1.068)	193835	50.2869	50.28
	64 Styrene	104	8.759	8.759	(1.070)	348994	52.2223	52.22
	66 Bromoform	173	8.916	8.916	(1.089)	79115	50.4378	50.43
	67 Isopropylbenzene	105	9.059	9.063	(1.107)	483453	52.6216	52.62
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	162107	50.2668	50.26
$	69 4-Bromofluorobenzene	95	9.190	9.194	(1.123)	143643	48.1155	48.11
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	218218	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	175514	51.0690	51.06
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	37438	48.6175	48.61
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	565835	53.5911	53.59
	74 Bromobenzene	156	9.314	9.317	(0.916)	135960	50.9000	50.89
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	400924	50.6720	50.67

76	2-Chlorotoluene	91	9.479	9.482 (0.932)	344429	50.2957	50.29
77	4-Chlorotoluene	91	9.572	9.576 (0.941)	394762	50.0975	50.09

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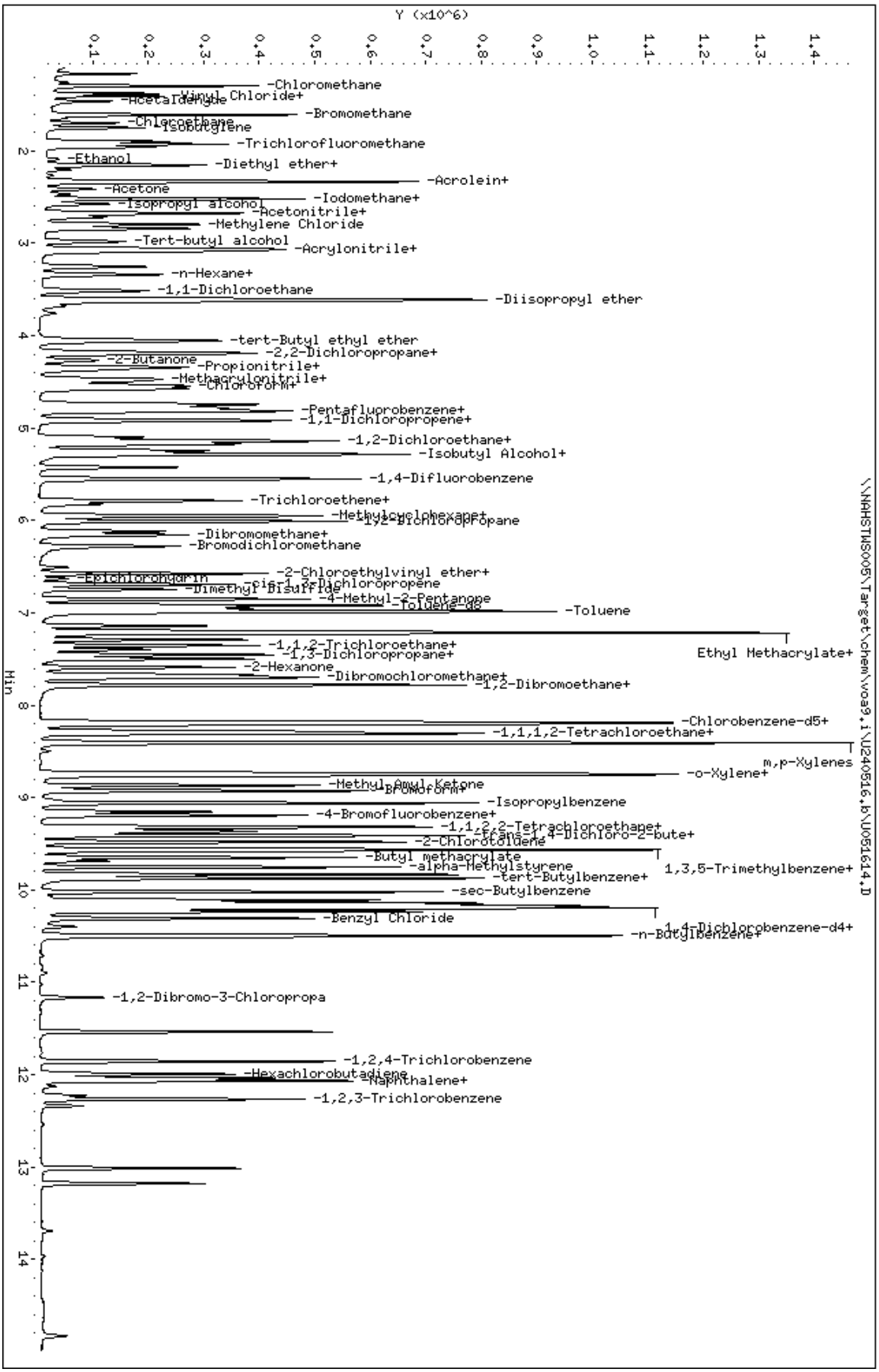
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	343743	54.4185	54.41
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	407304	49.6039	49.60
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	462175	53.9189	53.91
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	413987	52.8822	52.88
83	1,3-Dichlorobenzene	146	10.187	10.191	(1.002)	248830	48.6003	48.60
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	248830	48.6003	48.60
86	Benzyl Chloride	91	10.307	10.307	(1.259)	357407	40.2226	40.22
87	n-Butylbenzene	91	10.491	10.491	(1.032)	376317	50.4829	50.48
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	233623	49.2181	49.21
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	24183	50.7016	50.70
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	163791	49.9777	49.97
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	64935	49.8786	49.87
92	Naphthalene	128	12.065	12.065	(1.187)	391424	48.8911	48.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	142158	49.5504	49.55
146	Methyl acetate	43	2.716	2.723	(0.564)	111361	47.5536	47.55
138	Freon TF	101	2.334	2.337	(0.485)	169549	47.8158	47.81
141	Cyclohexane	56	4.781	4.785	(0.993)	160205	49.2177	49.21
142	Tetrahydrofuran	42	4.541	4.549	(0.943)	45189	99.2421	99.24
147	Methylcyclohexane	55	5.943	5.947	(1.071)	279812	51.7706	51.77
135	1,4-Dioxane	88	6.168	6.169	(1.281)	24713	915.407	915.40
132	n-Butanol	56	5.824	5.827	(1.209)	64042	908.246	908.24
136	n-Hexane	57	3.338	3.346	(0.693)	110484	47.0893	47.08
139	Diethyl ether	59	2.146	2.154	(0.446)	83767	47.5761	47.57
148	Tert-butyl alcohol	59	2.978	2.990	(0.619)	186338	923.832	923.83
149	Isopropyl alcohol	45	2.573	2.589	(0.534)	141879	904.128	904.12
152	Amyl alcohol	42	7.394	7.398	(0.903)	73861	1017.32	1017.32
156	Diisopropyl ether	45	3.623	3.631	(0.752)	356081	47.6116	47.61
162	Butyl acrylate	55	8.729	8.733	(1.066)	245221	48.8058	48.80
187	n-Amyl acetate	43	8.927	8.931	(1.091)	236940	49.9399	49.93
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	454765	49.3337	49.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	353665	47.5381	47.53
167	Ethanol	45	2.090	2.105	(0.434)	23946	988.417	988.41
172	tert-Butyl formate	59	5.246	5.254	(1.090)	215602	95.1967	95.19
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	264148	941.384	941.38
174	tert-Amyl methyl ether	73	5.287	5.291	(1.098)	345539	47.3088	47.30
175	tert-Butyl ethyl ether	59	4.054	4.058	(0.842)	339063	48.2329	48.23
176	tert-Amyl alcohol	59	5.246	5.254	(1.090)	215602	969.977	969.97
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	768069	958.340	958.33
140	1,3-Butadiene	54	1.404	1.411	(0.292)	56489	49.3250	49.32
182	Epichlorohydrin	57	6.630	6.630	(1.195)	37839	189.518	189.51
M 94	1,2-Dichloroethylene (total)	96				226091	99.0129	99.01
M 95	Xylenes (total)	106				588310	153.154	153.15
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	181357	53.6221	53.62
130	Ethyl Acetate	43	4.343	4.347	(0.902)	140680	52.5296	52.52
131	Methyl Acrylate	55	4.369	4.373	(0.907)	144878	46.9913	46.99
189	n-Butyl acetate	43	7.702	7.705	(0.941)	223274	49.9587	49.95
134	Cyclohexanone	55	9.152	9.152	(0.900)	121025	891.462	891.46
185	Isoprene	39	2.154	2.161	(0.447)	25579	48.1603	48.16
188	Isopropyl acetate	43	5.284	5.288	(0.952)	361251	48.4393	48.43
150	Allyl alcohol	57	3.338	3.346	(0.693)	110484	941.786	941.78
194	Acetaldehyde	44	1.460	1.468	(0.303)	83229	210.358	210.35(TM)
195	Methyl Amyl Ketone	43	8.864	8.868	(1.083)	280345	47.7913	47.79

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	107555	47.2250	47.22
202 Isobutylene	41	1.749	1.749 (0.363)	46342	48.8840	48.88(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.947	(1.234)	279812	51.0247	51.02
163 Butyl methacrylate	41	9.647	9.647	(0.949)	141325	47.0133	47.01
159 Propylene oxide	43	2.202	2.210	(0.457)	20773	100.930	100.93
203 2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	130321	46.6103	46.61

QC Flag Legend

T - Target compound detected outside RT window.
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\voa9,i\U240516,b\U051614,D
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Sample Info: VSTD050;VSTD050;2;;ICV
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

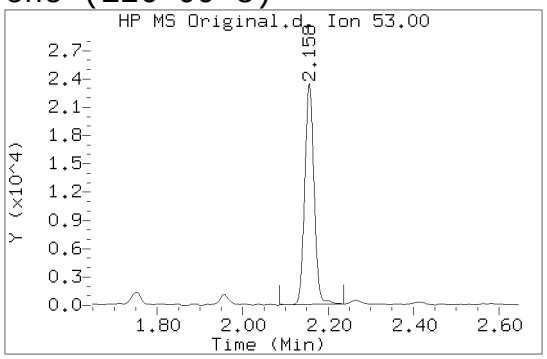
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LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

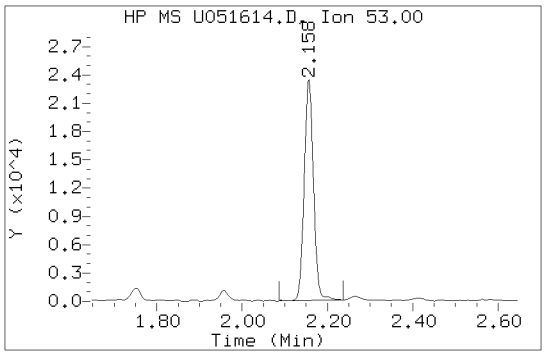
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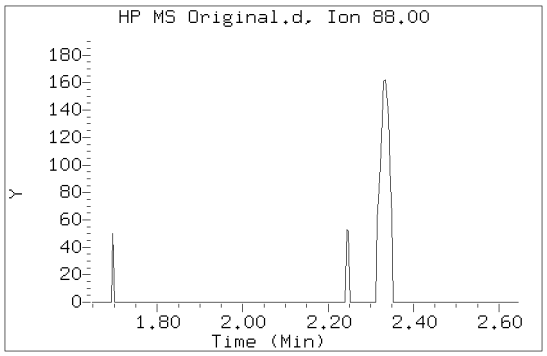
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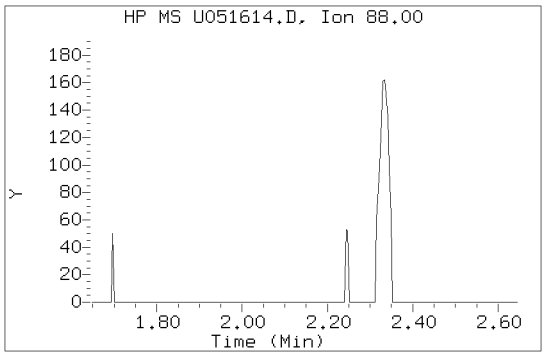
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AFTER

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patel

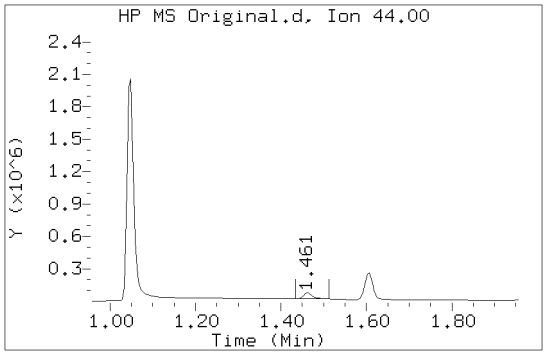


Acetaldehyde (75-07-0)

Reason Code:

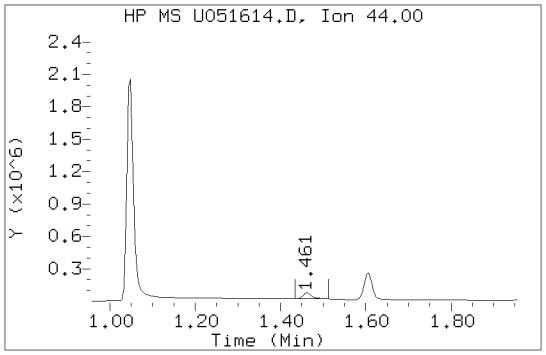
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rucha
patel



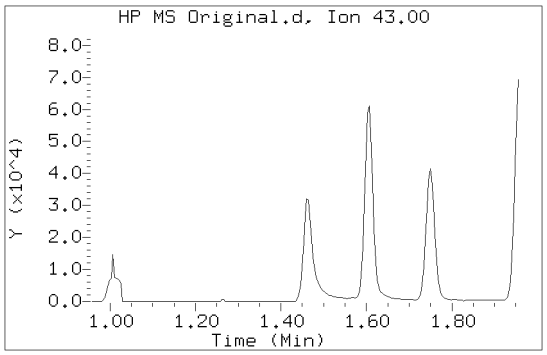
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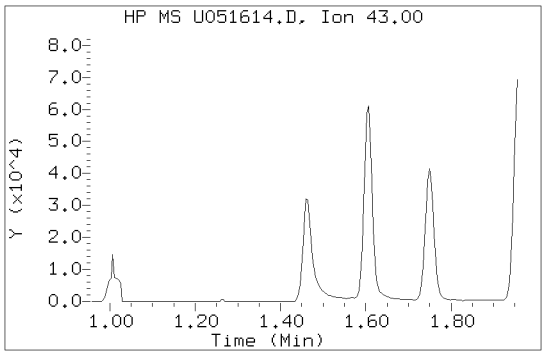
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MASS
43
AREA
0
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0
07-Jun-2024
11:58
rucha
patel



AFTER

MASS
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HEIGHT
0
07-Jun-2024
11:58
rucha
patel



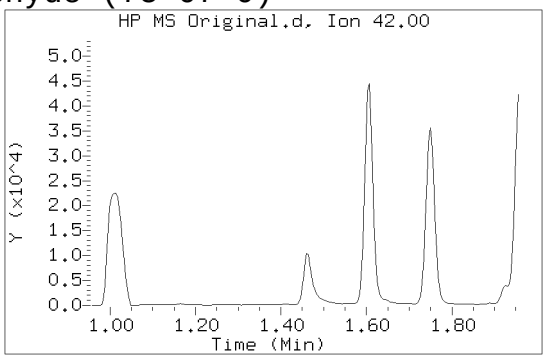
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InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

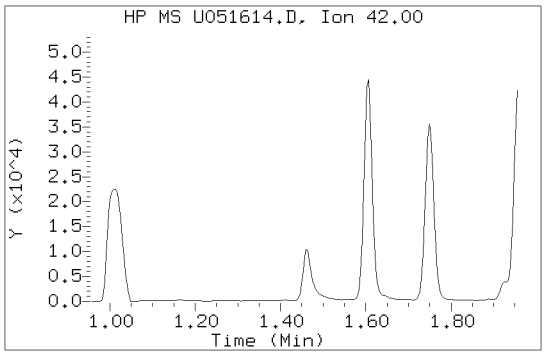
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rucha
patel



AFTER

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07-Jun-2024
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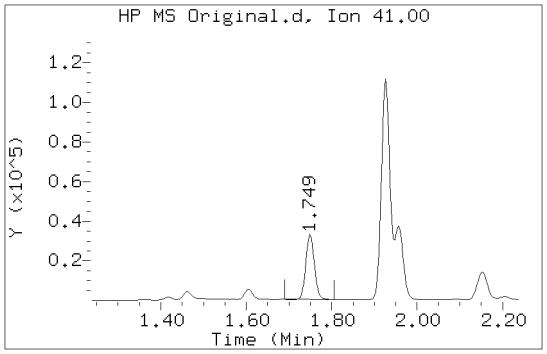


Isobutylene (115-11-7)

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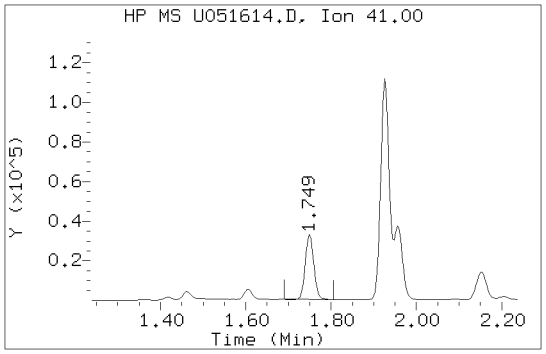
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11:58
rucha
patel



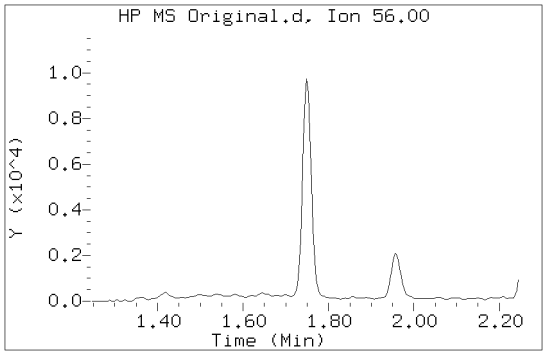
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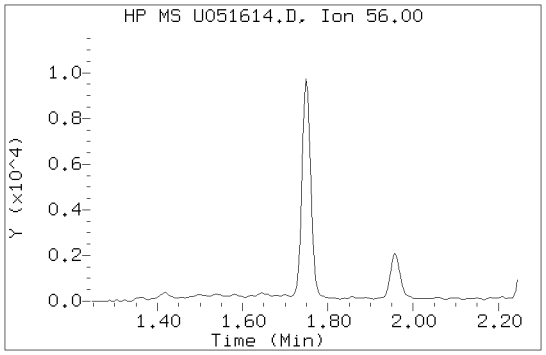
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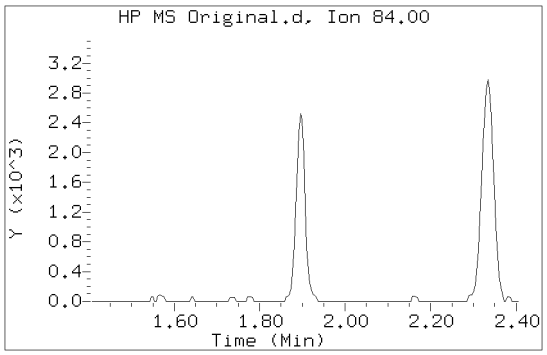
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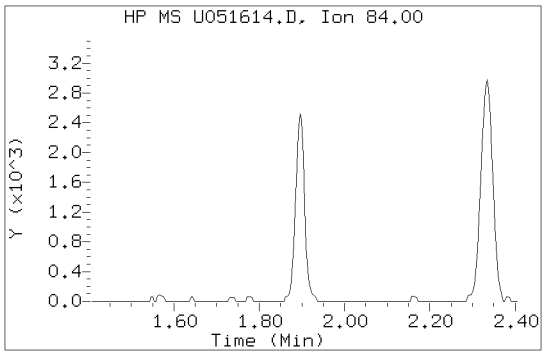
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AFTER

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07-Jun-2024
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RawData

<textMethods>

Workorder

HS24050838

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

06/07/2024

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\U240517.b\U051801.D Page 1
Report Date: 20-May-2024 08:34

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240517.b\U051801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-MAY-2024 03:18
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\U240517.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: 33 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)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	62600			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	11572			15.00- 40.00	18.49
9.190	9.180	(0.000)	75	30816			30.00- 60.00	49.23
9.190	9.180	(0.000)	96	4584			5.00- 9.00	7.32
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	52248			50.00- 0.00	83.46
9.190	9.180	(0.000)	175	4653			5.00- 9.00	8.91
9.190	9.180	(0.000)	176	50784			95.00- 101.00	97.20
9.190	9.180	(0.000)	177	3446			5.00- 9.00	6.79

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D
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Inj Date : 18-MAY-2024 04:01
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.812	4.812	(1.000)	288901	50.0000	
2 Dichlorodifluoromethane	85	1.157	1.157	(0.240)	73228	50.0000	47.25
3 Chloromethane	50	1.288	1.288	(0.268)	237102	50.0000	40.68
4 Propionitrile	54	4.332	4.332	(0.900)	158235	500.000	442.98
5 Vinyl Chloride	62	1.370	1.370	(0.285)	110873	50.0000	48.23
6 Bromomethane	94	1.599	1.599	(0.332)	43784	50.0000	57.06
7 Chloroethane	64	1.685	1.685	(0.350)	77045	50.0000	46.02
8 Trichlorofluoromethane	101	1.884	1.884	(0.392)	129694	50.0000	47.32
9 Acrolein	56	2.255	2.255	(0.469)	9897	100.000	115.79
10 Acetone	43	2.401	2.401	(0.499)	93573	100.000	108.99
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	78106	50.0000	47.89
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	319041	1000.00	873.84
13 Acetonitrile	39	2.664	2.664	(0.554)	110479	500.000	469.45
14 Allyl Chloride	41	2.664	2.664	(0.554)	270999	50.0000	46.19
15 Iodomethane	142	2.457	2.457	(0.511)	27663	100.000	131.90
16 Acrylonitrile	53	3.061	3.061	(0.636)	78833	100.000	91.91
17 Methylene Chloride	84	2.787	2.787	(0.579)	100273	50.0000	44.89
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	262941	50.0000	44.14
19 Carbon Disulfide	76	2.510	2.510	(0.522)	478355	100.000	96.48
20 trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	87681	50.0000	45.23

21 Vinyl Acetate	43	4.335	4.335 (0.901)	123056	100.000	97.69
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	168125	50.0000	47.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D Page 2
Report Date: 06-Jun-2024 15:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.146	2.146	(0.446)	30860	50.0000	46.65(M)
	24 2-Butanone	43	4.260	4.260	(0.885)	120157	100.000	92.78
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	64618	50.0000	44.59(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	109920	50.0000	40.02(M)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	107519	50.0000	45.96
	28 Chloroform	83	4.568	4.568	(0.949)	173702	50.0000	47.73
	29 Bromochloromethane	128	4.463	4.463	(0.928)	53134	50.0000	46.09
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	104230	50.0000	55.20
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	133661	50.0000	45.98
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	128643	50.0000	50.22
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	137886	50.0000	48.22
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	107377	50.0000	46.70
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	123736	50.0000	54.50
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	420212	50.0000	
	37 Benzene	78	5.134	5.134	(0.926)	400841	50.0000	47.18
	38 Trichloroethene	130	5.782	5.782	(1.043)	101913	50.0000	49.46
	39 Bromodichloromethane	83	6.274	6.274	(1.131)	121783	50.0000	49.04
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	36177	50.0000	41.86
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	131884	100.000	95.15
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	109577	50.0000	47.83
	43 2-Nitropropane	43	6.573	6.573	(1.366)	83462	50.0000	50.67
	44 Dibromomethane	93	6.116	6.116	(1.103)	64616	50.0000	47.32
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	254611	100.000	93.99
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	152553	50.0000	47.43
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	376502	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	414942	50.0000	58.09
	49 Ethyl Methacrylate	69	7.214	7.214	(1.301)	120990	50.0000	42.18
	50 Toluene	91	6.978	6.978	(0.853)	421192	50.0000	47.32
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	125932	50.0000	47.30
	52 2-Hexanone	43	7.589	7.589	(0.928)	170760	100.000	91.92
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	81482	50.0000	47.87
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	179134	50.0000	47.55
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	97807	50.0000	45.31
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	79459	50.0000	46.35
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	96096	50.0000	48.40
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	86977	50.0000	46.20
	59 Chlorobenzene	112	8.208	8.208	(1.003)	271610	50.0000	46.61
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	93282	50.0000	48.90
	61 Ethylbenzene	106	8.305	8.305	(1.015)	137807	50.0000	48.95
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	345395	100.000	97.29
	63 o-Xylene	106	8.744	8.744	(1.069)	171992	50.0000	48.43
	64 Styrene	104	8.759	8.759	(1.071)	302306	50.0000	49.10
	66 Bromoform	173	8.916	8.916	(1.090)	63437	50.0000	44.15
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	423779	50.0000	50.07
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	136752	50.0000	45.35
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	154716	50.0000	56.25
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	204037	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	142141	50.0000	44.23
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	29692	50.0000	41.85
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	491300	50.0000	49.76
	74 Bromobenzene	156	9.314	9.314	(0.916)	117598	50.0000	47.08
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	352509	50.0000	47.64

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	301022	50.0000	47.01
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	348681	50.0000	47.32

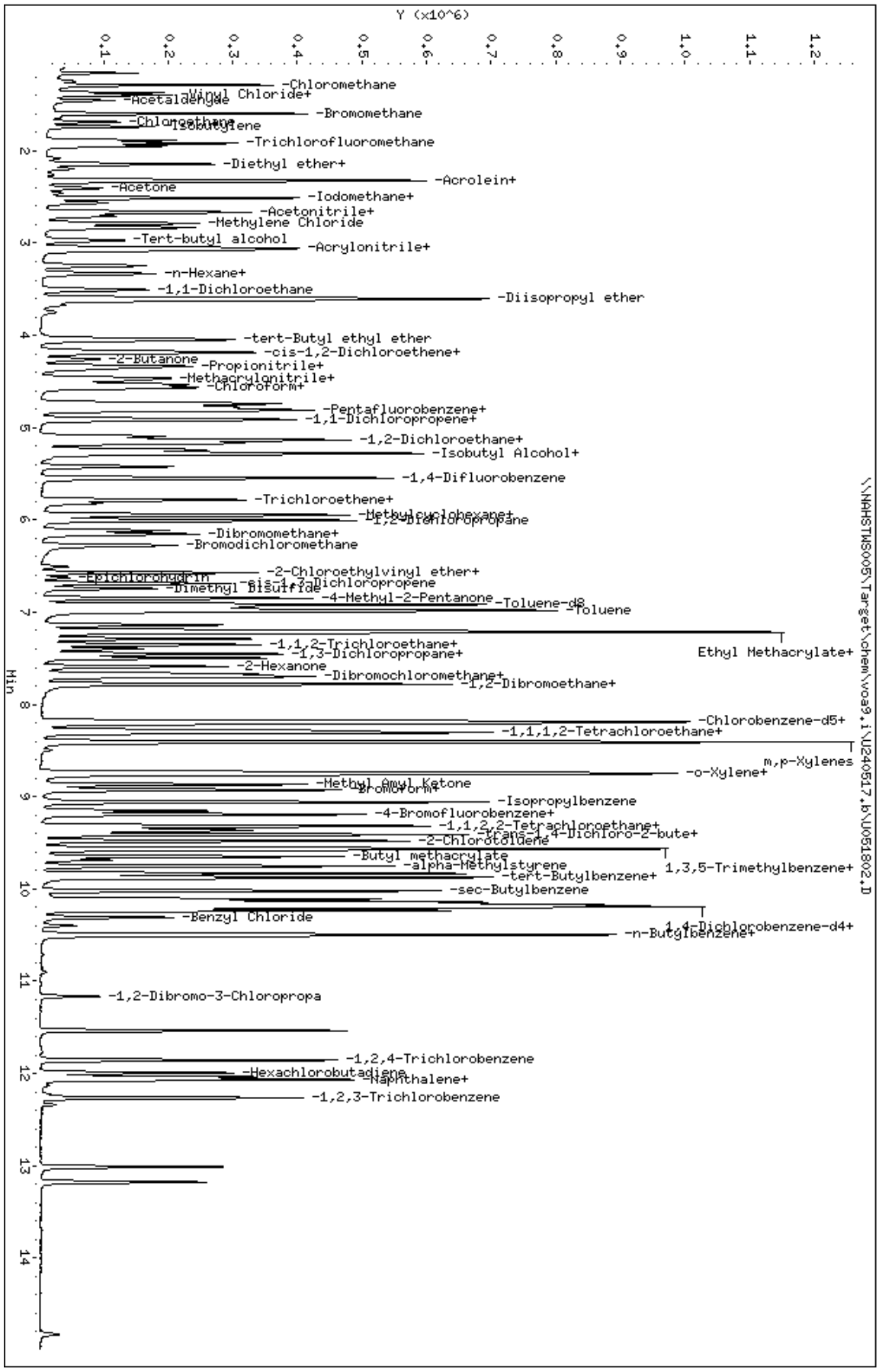
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	298486	50.0000	50.53
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	352680	50.0000	45.90
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	398794	50.0000	49.75
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	354840	50.0000	48.47
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	214879	50.0000	44.88
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	214879	50.0000	44.88
86	Benzyl Chloride	91	10.307	10.307	(1.260)	141310	50.0000	(aMH)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	308832	50.0000	44.22
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	205716	50.0000	46.35
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	18704	50.0000	41.93
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	138847	50.0000	45.31
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	55879	50.0000	45.98
92	Naphthalene	128	12.065	12.065	(1.187)	336141	50.0000	44.90
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	125281	50.0000	46.70
146	Methyl acetate	43	2.709	2.709	(0.563)	112746	50.0000	51.40
138	Freon TF	101	2.326	2.326	(0.484)	149512	50.0000	45.06
141	Cyclohexane	56	4.778	4.778	(0.993)	143836	50.0000	47.15
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	39349	100.000	92.13
147	Methylcyclohexane	55	5.944	5.944	(1.072)	251893	50.0000	50.26
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20448	1000.00	804.33(M)
132	n-Butanol	56	5.820	5.820	(1.210)	53277	1000.00	806.67
136	n-Hexane	57	3.331	3.331	(0.692)	87874	50.0000	40.07(M)
139	Diethyl ether	59	2.139	2.139	(0.445)	75040	50.0000	45.50
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	151333	1000.00	801.02(M)
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	118174	1000.00	803.99(M)
152	Amyl alcohol	42	7.394	7.394	(0.904)	58581	1000.00	875.86
156	Diisopropyl ether	45	3.616	3.616	(0.751)	330506	50.0000	47.18
162	Butyl acrylate	55	8.729	8.729	(1.067)	197721	50.0000	42.71
187	n-Amyl acetate	43	8.928	8.928	(1.091)	201402	50.0000	46.08
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	427810	50.0000	49.63
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	324168	50.0000	46.60
167	Ethanol	45	2.086	2.086	(0.434)	22453	1000.00	989.46
172	tert-Butyl formate	59	5.239	5.239	(1.089)	171050	100.000	80.63(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	220713	1000.00	853.86
174	tert-Amyl methyl ether	73	5.280	5.280	(1.097)	317107	50.0000	46.35
175	tert-Butyl ethyl ether	59	4.043	4.043	(0.840)	303680	50.0000	46.12
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	166363	1000.00	799.06
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	653016	1000.00	878.74
140	1,3-Butadiene	54	1.396	1.396	(0.290)	49822	50.0000	46.46
182	Epichlorohydrin	57	6.626	6.626	(1.195)	33821	200.000	182.69(M)
M 94	1,2-Dichloroethylene (total)	96				195200	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	151836	50.0000	48.01
130	Ethyl Acetate	43	4.335	4.335	(0.901)	123056	50.0000	49.05
131	Methyl Acrylate	55	4.362	4.362	(0.907)	129756	50.0000	44.93
189	n-Butyl acetate	43	7.702	7.702	(0.941)	189332	50.0000	45.98
134	Cyclohexanone	55	9.153	9.153	(0.900)	102363	1000.00	806.40
185	Isoprene	39	2.146	2.146	(0.446)	22921	50.0000	46.07
188	Isopropyl acetate	43	5.280	5.280	(0.952)	317950	50.0000	45.97
150	Allyl alcohol	57	3.331	3.331	(0.692)	88549	1000.00	807.65(M)
194	Acetaldehyde	44	1.453	1.453	(0.302)	74058	200.000	200.08(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	236307	50.0000	43.72
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	69709	50.0000	34.68

202 Isobutylene	41	1.738	1.738 (0.361)	43339	50.0000	48.80(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	251893	50.0000	49.03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	119755	50.0000	42.60
159 Propylene oxide	43	2.195	2.195	(0.456)	17061	100.000	88.04
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	107996	50.0000	41.30

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D
Date : 18-MAY-2024 04:01
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

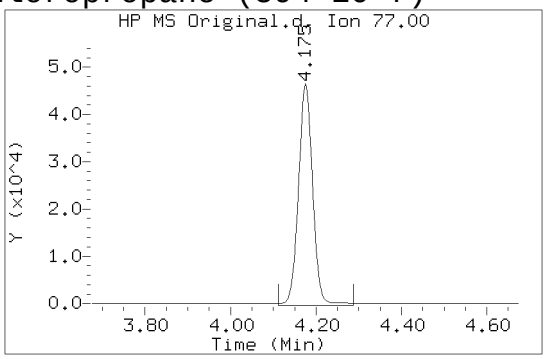
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Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

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

Reason Code:

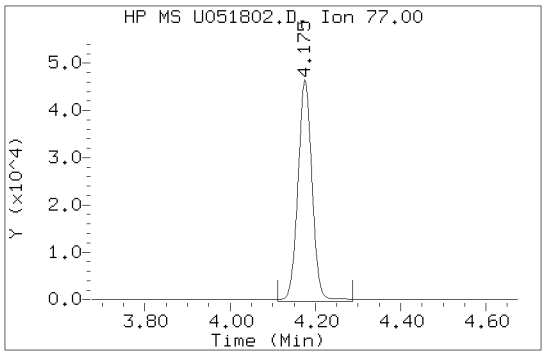
BEFORE

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06-Jun-2024
15:19
rucha
patel



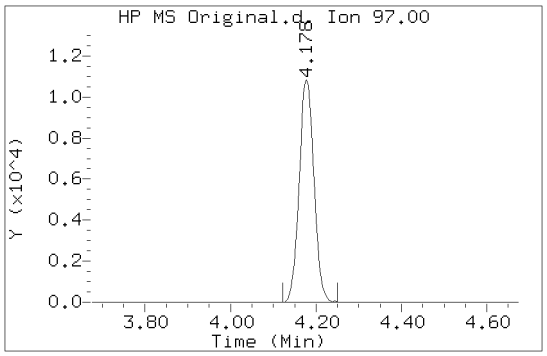
AFTER

MASS
77
AREA
109920
HEIGHT
46852
06-Jun-2024
15:19
rucha
patel



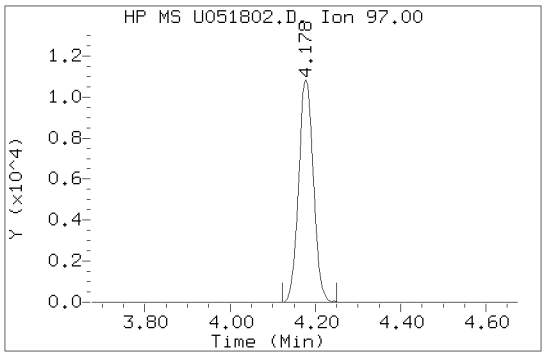
BEFORE

MASS
97
AREA
26398
HEIGHT
10832
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
97
AREA
26398
HEIGHT
10832
06-Jun-2024
15:19
rucha
patel

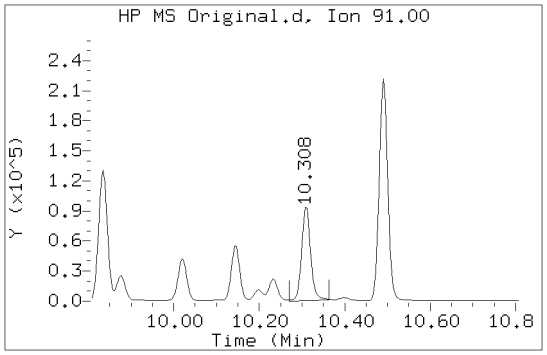


Benzyl Chloride (100-44-7)

Reason Code:

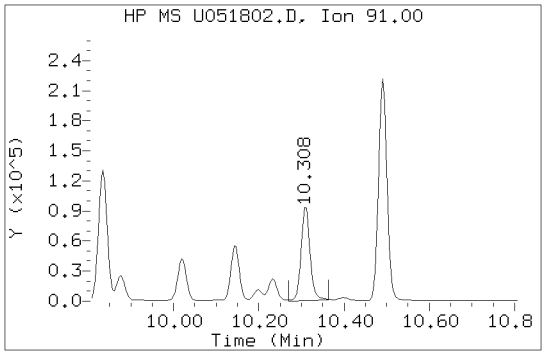
BEFORE

MASS
91
AREA
141310
HEIGHT
93605
06-Jun-2024
15:19
rucha
patel



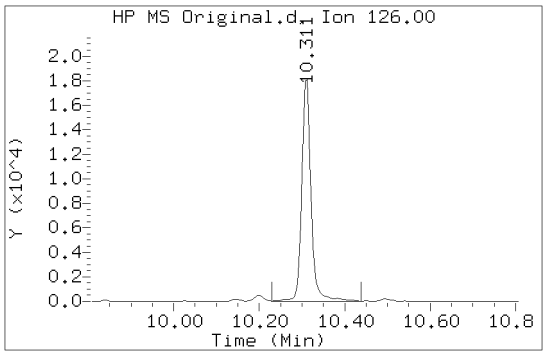
AFTER

MASS
91
AREA
141310
HEIGHT
93605
06-Jun-2024
15:19
rucha
patel



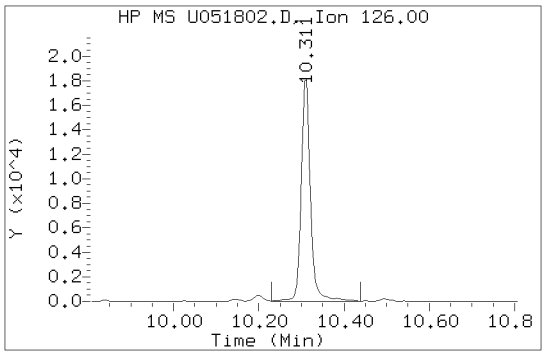
BEFORE

MASS
126
AREA
28282
HEIGHT
18088
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
126
AREA
28282
HEIGHT
18088
06-Jun-2024
15:19
rucha
patel



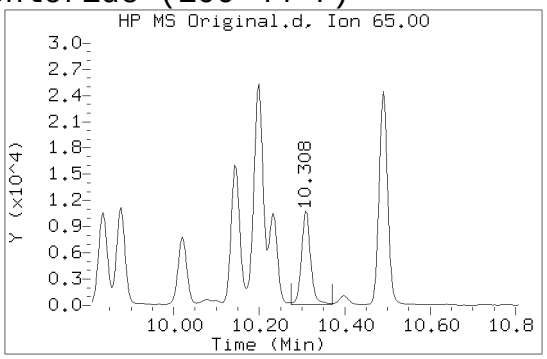
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D
Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

Benzyl Chloride (100-44-7)

Reason Code:

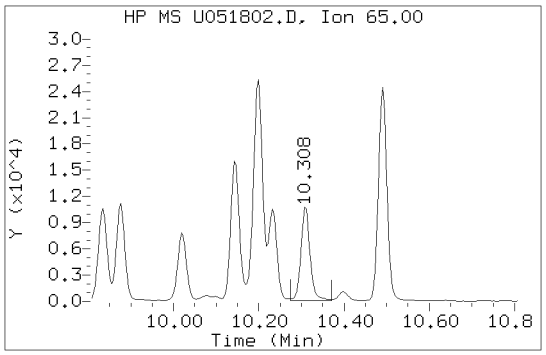
BEFORE

MASS
65
AREA
16409
HEIGHT
10730
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
65
AREA
16409
HEIGHT
10730
06-Jun-2024
15:19
rucha
patel

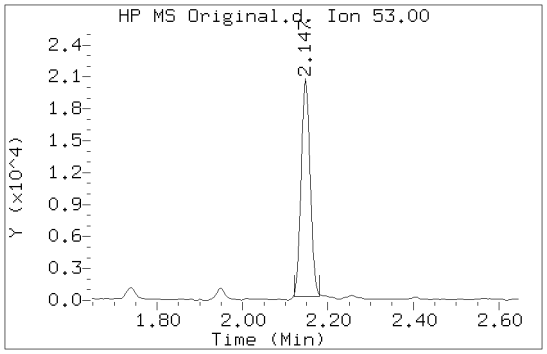


Chloroprene (126-99-8)

Reason Code:

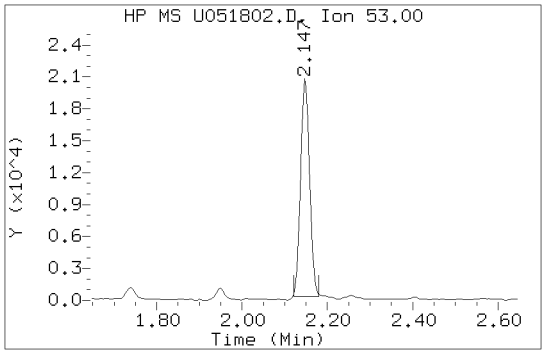
BEFORE

MASS
53
AREA
30860
HEIGHT
20449
06-Jun-2024
15:19
rucha
patel



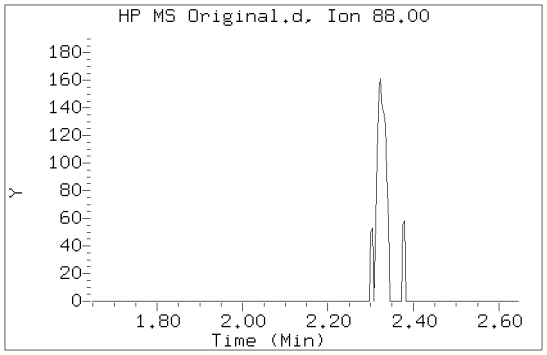
AFTER

MASS
53
AREA
30860
HEIGHT
20449
06-Jun-2024
15:19
rucha
patel



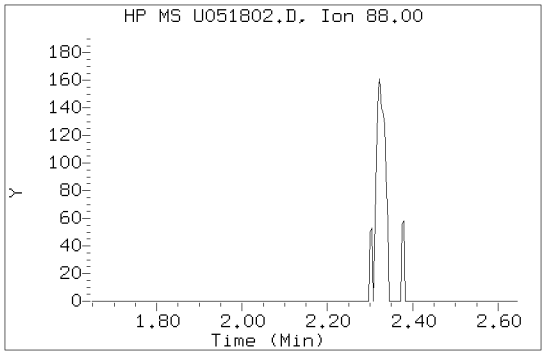
BEFORE

MASS
88
AREA
0
HEIGHT
0
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
88
AREA
0
HEIGHT
0
06-Jun-2024
15:19
rucha
patel

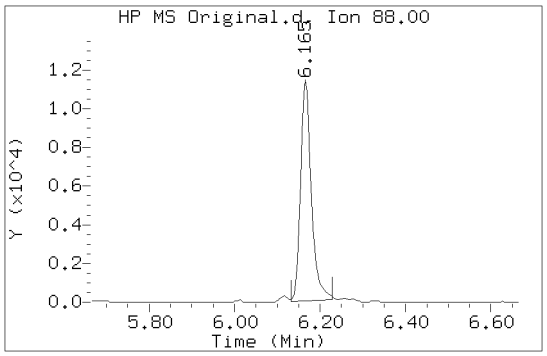


1,4-Dioxane ()

Reason Code:

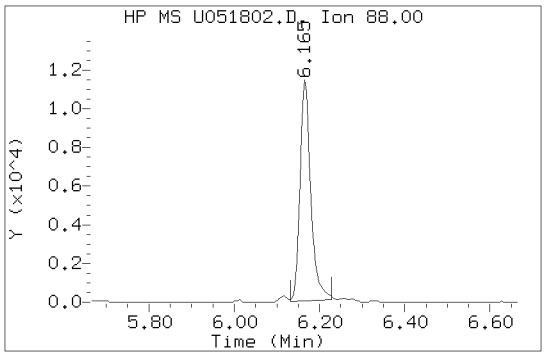
BEFORE

MASS
88
AREA
20448
HEIGHT
11421
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
88
AREA
20448
HEIGHT
11421
06-Jun-2024
15:19
rucha
patel



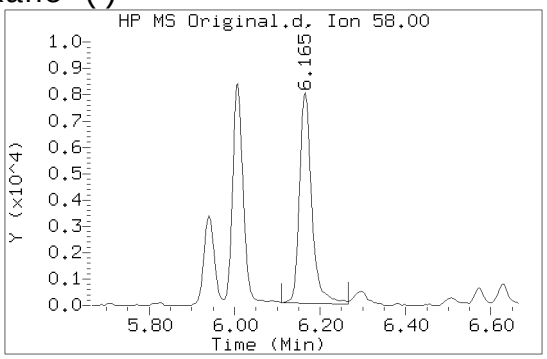
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Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

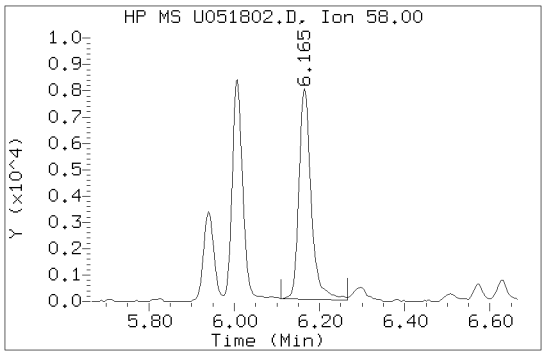
BEFORE

MASS
58
AREA
16316
HEIGHT
7999
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
58
AREA
16316
HEIGHT
7999
06-Jun-2024
15:19
rucha
patel

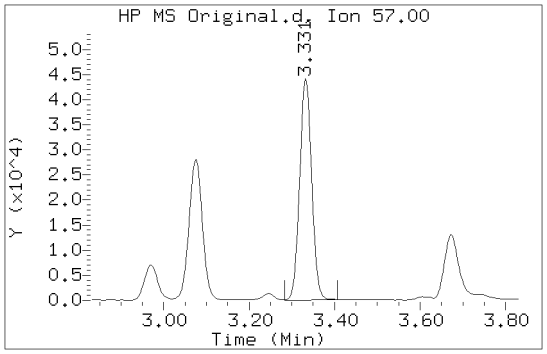


n-Hexane (110-54-3)

Reason Code:

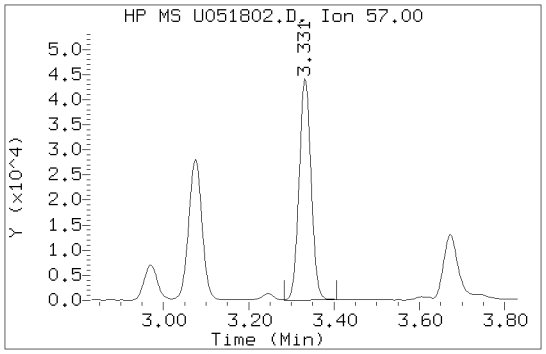
BEFORE

MASS
57
AREA
87874
HEIGHT
44114
06-Jun-2024
15:19
rucha
patel



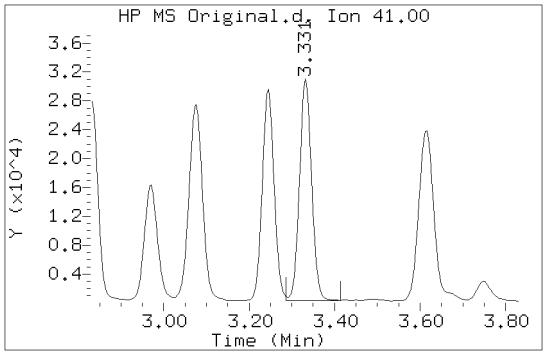
AFTER

MASS
57
AREA
87874
HEIGHT
44114
06-Jun-2024
15:19
rucha
patel



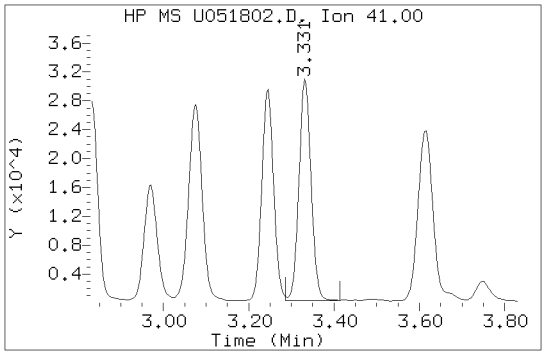
BEFORE

MASS
41
AREA
61452
HEIGHT
30705
06-Jun-2024
15:19
rucha
patel



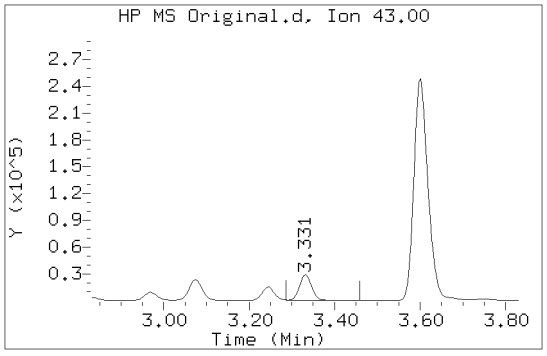
AFTER

MASS
41
AREA
61452
HEIGHT
30705
06-Jun-2024
15:19
rucha
patel



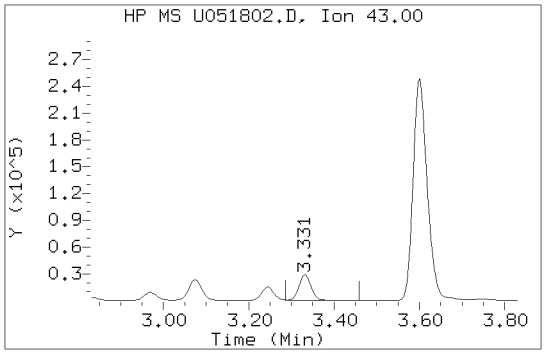
BEFORE

MASS
43
AREA
57907
HEIGHT
28511
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
43
AREA
57907
HEIGHT
28511
06-Jun-2024
15:19
rucha
patel



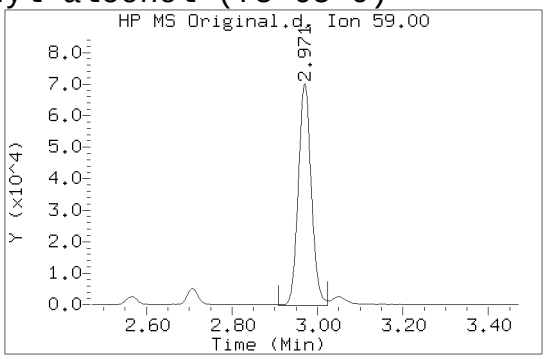
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051802.D
Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

Tert-butyl alcohol (75-65-0)

Reason Code:

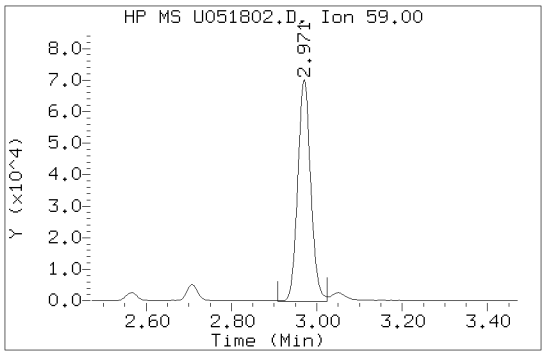
BEFORE

MASS
59
AREA
151333
HEIGHT
70291
06-Jun-2024
15:19
rucha
patel



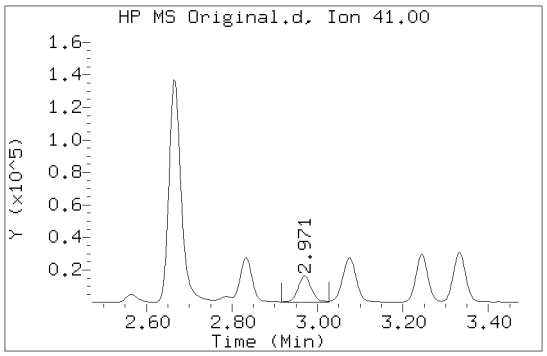
AFTER

MASS
59
AREA
151333
HEIGHT
70291
06-Jun-2024
15:19
rucha
patel



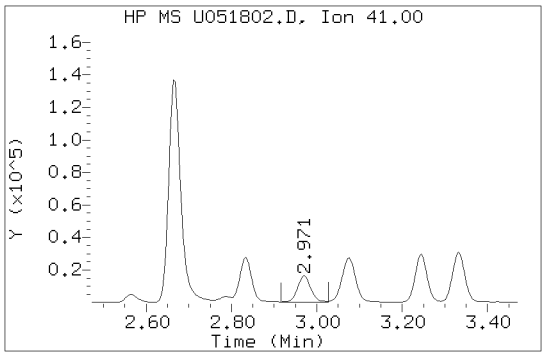
BEFORE

MASS
41
AREA
34750
HEIGHT
16023
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
41
AREA
34750
HEIGHT
16023
06-Jun-2024
15:19
rucha
patel

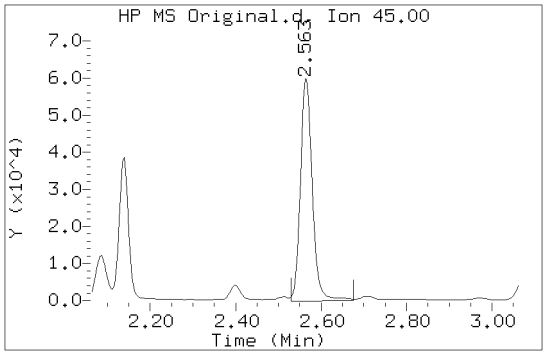


Isopropyl alcohol (67-63-0)

Reason Code:

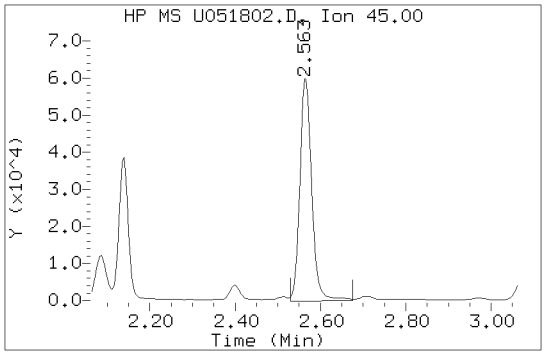
BEFORE

MASS
45
AREA
118174
HEIGHT
59911
06-Jun-2024
15:19
rucha
patel



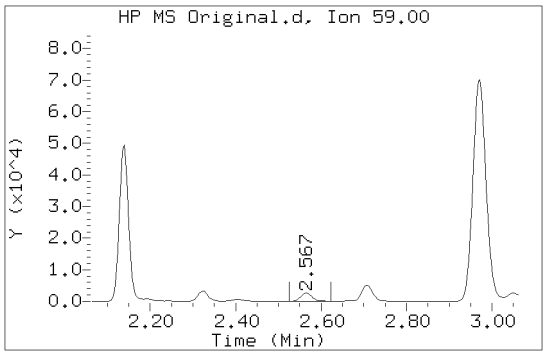
AFTER

MASS
45
AREA
118174
HEIGHT
59911
06-Jun-2024
15:19
rucha
patel



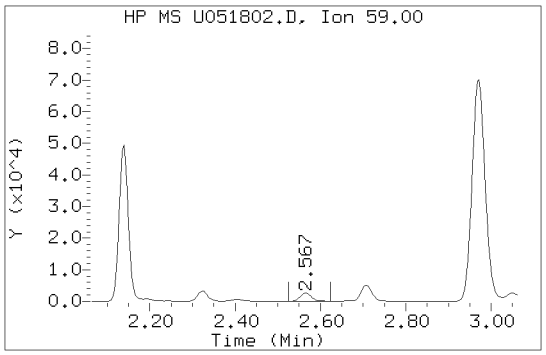
BEFORE

MASS
59
AREA
4986
HEIGHT
2642
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
59
AREA
4986
HEIGHT
2642
06-Jun-2024
15:19
rucha
patel



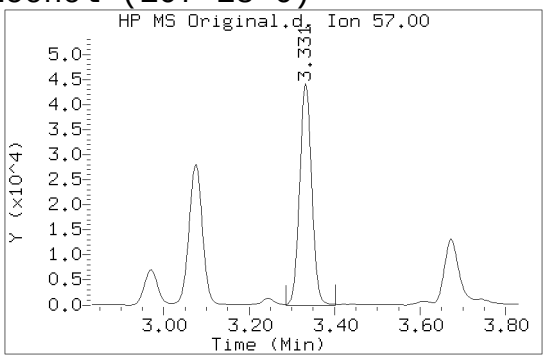
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Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

Allyl alcohol (107-18-6)

Reason Code:

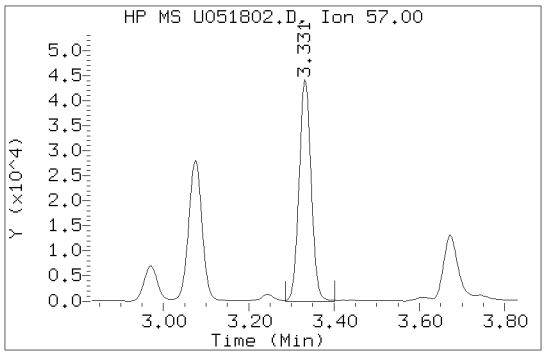
BEFORE

MASS
57
AREA
88549
HEIGHT
44214
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
57
AREA
88549
HEIGHT
44214
06-Jun-2024
15:19
rucha
patel

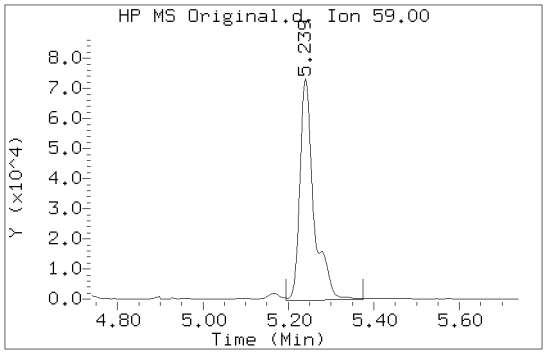


tert-Butyl formate (762-75-4)

Reason Code:

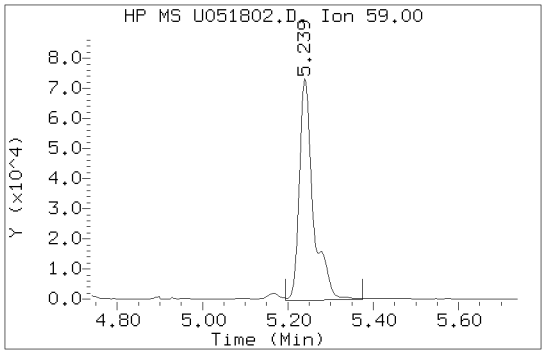
BEFORE

MASS
59
AREA
171050
HEIGHT
73532
06-Jun-2024
15:19
rucha
patel



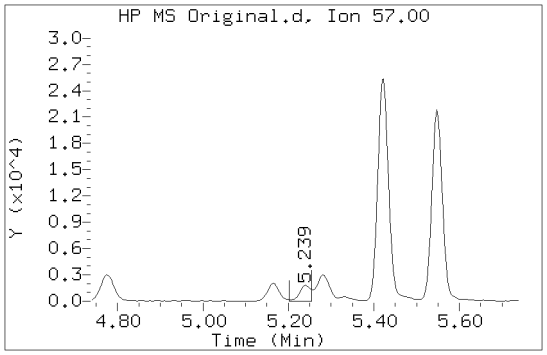
AFTER

MASS
59
AREA
171050
HEIGHT
73532
06-Jun-2024
15:19
rucha
patel



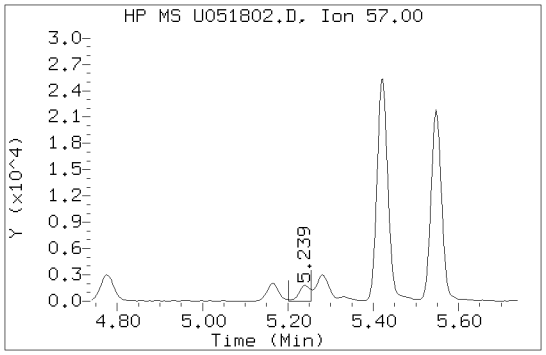
BEFORE

MASS
57
AREA
3328
HEIGHT
1822
06-Jun-2024
15:19
rucha
patel



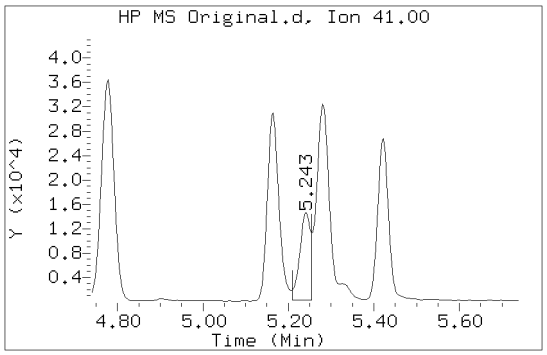
AFTER

MASS
57
AREA
3328
HEIGHT
1822
06-Jun-2024
15:19
rucha
patel



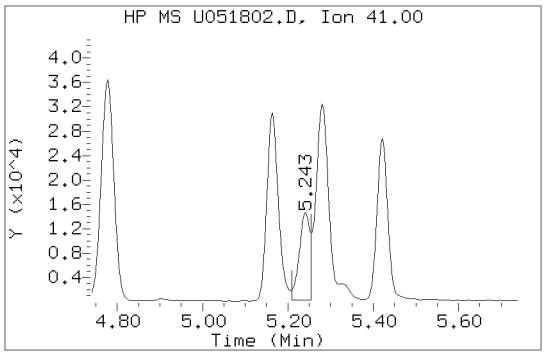
BEFORE

MASS
41
AREA
26011
HEIGHT
14293
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
41
AREA
26011
HEIGHT
14293
06-Jun-2024
15:19
rucha
patel



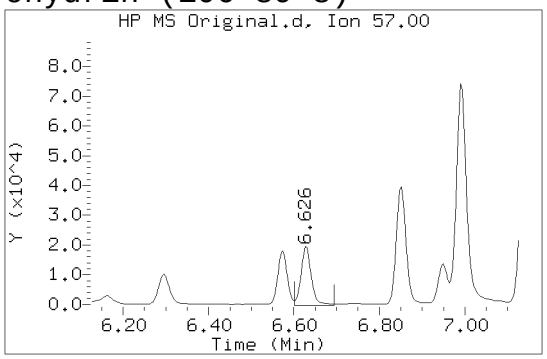
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Inj Date : 18-MAY-2024 04:01
InstruID : VOA9.i
LabSampID : VSTD050

Epichlorohydrin (106-89-8)

Reason Code:

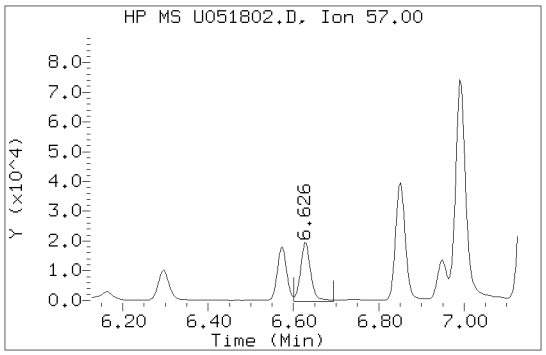
BEFORE

MASS
57
AREA
33821
HEIGHT
19792
06-Jun-2024
15:19
rucha
patel



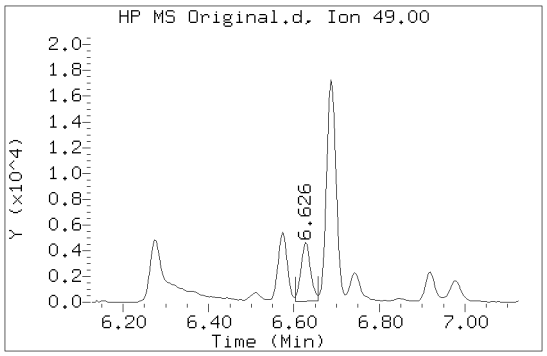
AFTER

MASS
57
AREA
33821
HEIGHT
19792
06-Jun-2024
15:19
rucha
patel



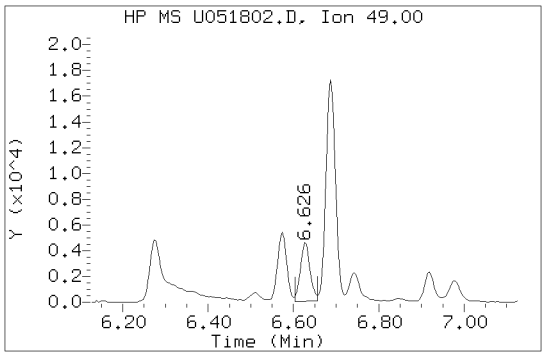
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AFTER

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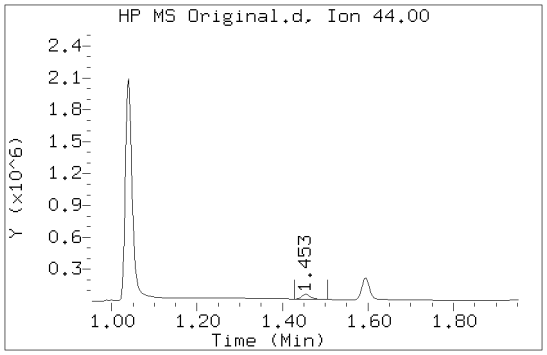


Acetaldehyde (75-07-0)

Reason Code:

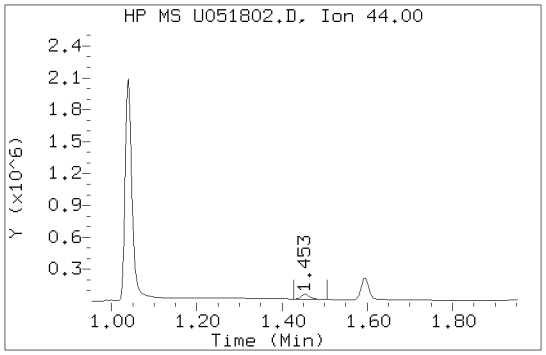
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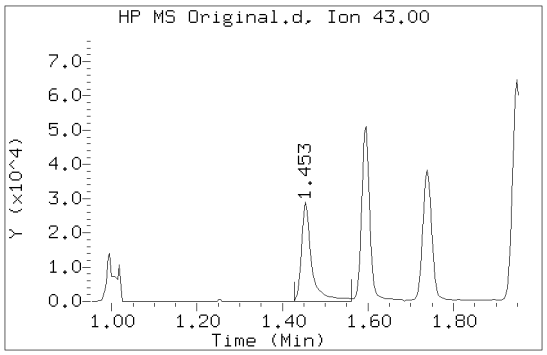
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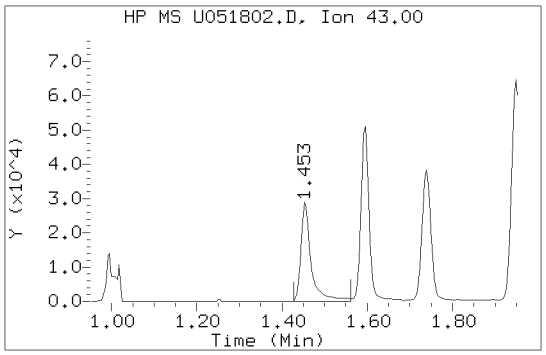
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AFTER

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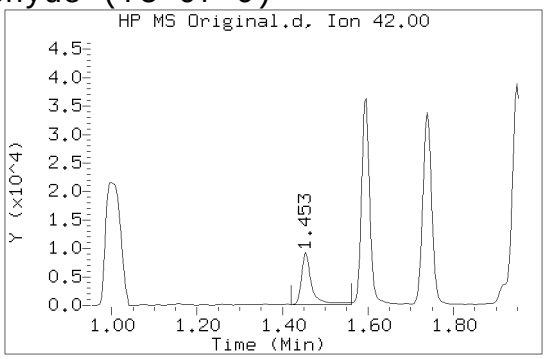
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LabSampID : VSTD050

Acetaldehyde (75-07-0)

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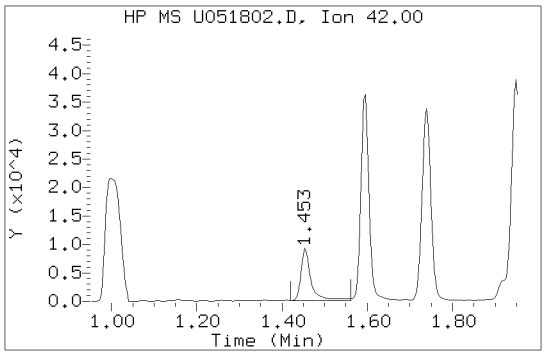
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AFTER

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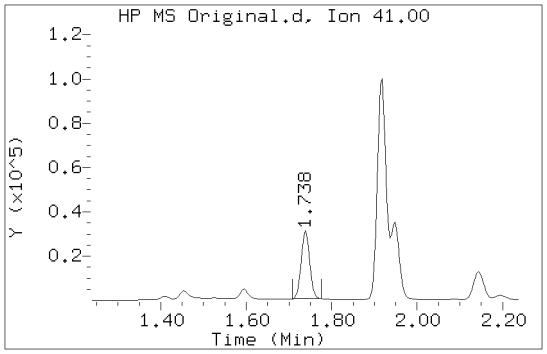


Isobutylene (115-11-7)

Reason Code:

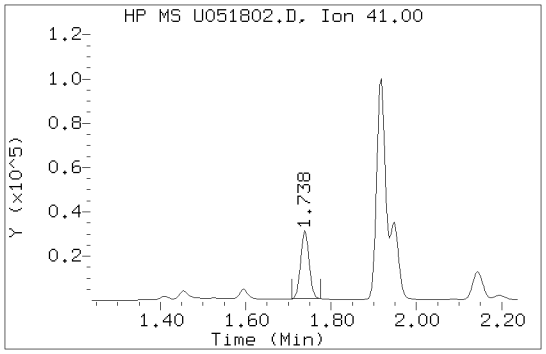
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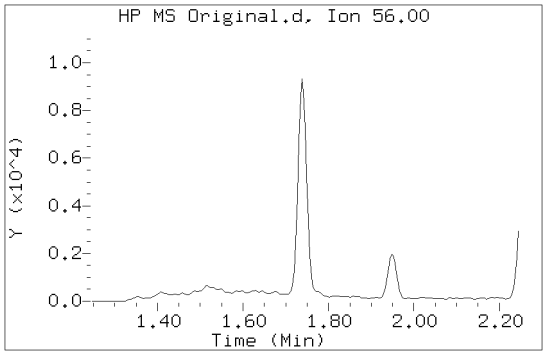
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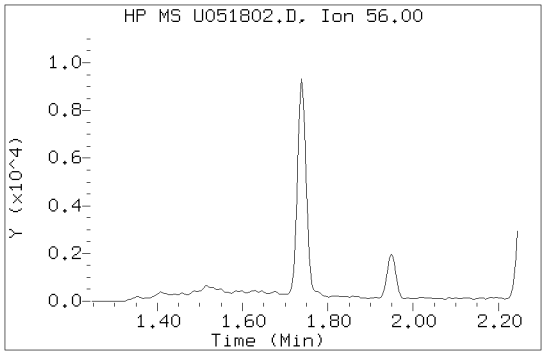
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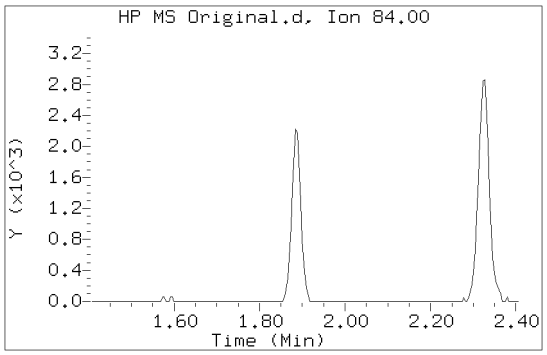
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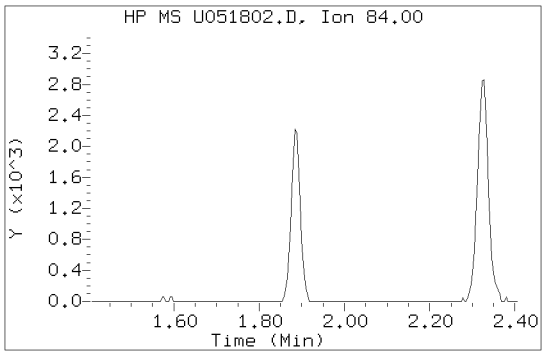
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AFTER

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HEIGHT
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06-Jun-2024
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rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051803.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051803.D
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Inj Date : 18-MAY-2024 04:23
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSW-240518;VLCSW-240518;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 35 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.815	4.812	(1.000)	279270	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.157	(0.243)	27923	19.0641	19.06
3 Chloromethane	50	1.299	1.288	(0.270)	106150	14.2896	14.28
4 Propionitrile	54	4.339	4.332	(0.901)	62024	179.625	179.62(a)
5 Vinyl Chloride	62	1.382	1.370	(0.287)	44442	20.0020	20.00
6 Bromomethane	94	1.614	1.599	(0.335)	20043	26.4124	26.41
7 Chloroethane	64	1.700	1.685	(0.353)	30622	19.4612	19.46
8 Trichlorofluoromethane	101	1.899	1.884	(0.394)	49370	18.9239	18.92
9 Acrolein	56	2.270	2.255	(0.471)	4925	57.9026	57.90
10 Acetone	43	2.412	2.401	(0.501)	43987	50.9013	50.90
11 1,1-Dichloroethene	96	2.334	2.322	(0.485)	30843	19.5657	19.56
12 Isobutyl Alcohol	43	5.284	5.280	(1.097)	122979	348.452	348.45(a)
13 Acetonitrile	39	2.675	2.664	(0.556)	42494	186.796	186.79(a)
14 Allyl Chloride	41	2.675	2.664	(0.556)	104775	18.4757	18.47(a)
15 Iodomethane	142	2.469	2.457	(0.513)	11993	65.8814	65.88
16 Acrylonitrile	53	3.069	3.061	(0.637)	30733	36.1721	36.17
17 Methylene Chloride	84	2.799	2.787	(0.581)	41024	18.0586	18.05
18 Methyl tert-butyl ether	73	3.084	3.076	(0.640)	102550	17.8111	17.81
19 Carbon Disulfide	76	2.521	2.510	(0.524)	188064	39.2409	39.24
20 trans-1,2-Dichloroethene	96	3.061	3.050	(0.636)	34442	18.3800	18.38

21 Vinyl Acetate	43	4.343	4.335 (0.902)	48083	39.4913	39.49
22 1,1-Dichloroethane	63	3.515	3.503 (0.730)	66991	19.3925	19.39

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	24	2-Butanone	43	4.268	4.260	(0.886)	49735	39.7290	39.72
	25	Methacrylonitrile	41	4.497	4.489	(0.934)	25844	18.4521	18.45(a)
	26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	40466	15.2429	15.24
	27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	42920	18.9816	18.98
	28	Chloroform	83	4.575	4.568	(0.950)	69380	19.7248	19.72
	29	Bromochloromethane	128	4.471	4.463	(0.928)	21340	19.1506	19.15
$	30	Dibromofluoromethane	113	4.748	4.744	(0.986)	103998	56.9850	56.98
	31	1,1,1-Trichloroethane	97	4.744	4.737	(0.985)	51048	18.4506	18.45
	32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	49767	19.9171	19.91
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	55248	19.8077	19.80
	34	Carbon Tetrachloride	117	4.913	4.905	(0.885)	40039	18.5756	18.57
$	35	1,2-Dichloroethane-d4	65	5.097	5.093	(1.058)	121417	55.3231	55.32
*	36	1,4-Difluorobenzene	114	5.554	5.546	(1.000)	409923	50.0000	
	37	Benzene	78	5.138	5.134	(0.925)	162211	19.5752	19.57
	38	Trichloroethene	130	5.786	5.782	(1.042)	42664	21.2269	21.22
	39	Bromodichloromethane	83	6.277	6.274	(1.130)	45778	18.8984	18.89
	40	Methyl Methacrylate	41	5.828	5.820	(1.210)	14032	16.7964	16.79(a)
	41	2-Chloroethylvinyl ether	63	6.574	6.573	(1.184)	49021	36.2557	36.25
	42	1,2-Dichloropropane	63	6.007	6.004	(1.082)	44444	19.8900	19.88
	43	2-Nitropropane	43	6.574	6.573	(1.365)	31723	19.9254	19.92
	44	Dibromomethane	93	6.120	6.116	(1.102)	25995	19.5163	19.51
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	96631	36.6475	36.64
	46	cis-1,3-Dichloropropene	75	6.690	6.686	(1.204)	56368	17.9673	17.96
*	47	Chlorobenzene-d5	117	8.185	8.182	(1.000)	366492	50.0000	
$	48	Toluene-d8	98	6.922	6.918	(0.846)	386950	55.6558	55.65(M)
	49	Ethyl Methacrylate	69	7.215	7.214	(1.299)	45163	16.1427	16.14(a)
	50	Toluene	91	6.978	6.978	(0.853)	166230	19.1877	19.18
	51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	45791	17.6318	17.63
	52	2-Hexanone	43	7.589	7.589	(0.927)	69255	38.3007	38.30
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	33461	20.1958	20.19
	54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	71598	19.5259	19.52
	55	Dibromochloromethane	129	7.691	7.691	(0.940)	36084	18.0631	18.06
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	31386	19.2015	19.20
	57	1,2-Dibromoethane	107	7.784	7.780	(0.951)	38676	20.0131	20.01
	58	1-Chlorohexane	55	8.193	8.193	(1.475)	34085	17.6129	17.61
	59	Chlorobenzene	112	8.208	8.208	(1.003)	108266	19.0893	19.08
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	35865	19.3180	19.31
	61	Ethylbenzene	106	8.305	8.305	(1.015)	54174	19.7687	19.76
	62	m,p-Xylenes	106	8.407	8.407	(1.027)	138272	40.0133	40.01
	63	o-Xylene	106	8.744	8.744	(1.068)	68543	19.8302	19.83
	64	Styrene	104	8.759	8.759	(1.070)	120409	20.0928	20.09
	66	Bromoform	173	8.916	8.916	(1.089)	21443	15.9952	15.99
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	165534	20.0927	20.09
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	51774	17.8528	17.85
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	146512	54.7288	54.72(M)
*	70	1,4-Dichlorobenzene-d4	152	10.169	10.168	(1.000)	196234	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	56758	18.3649	18.36
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	11692	16.9321	16.93(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	193143	20.3422	20.34
	74	Bromobenzene	156	9.318	9.314	(0.916)	47485	19.7688	19.76
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	137571	19.3352	19.33
	76	2-Chlorotoluene	91	9.479	9.479	(0.932)	121125	19.6690	19.66

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	140293	19.7985	19.79
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	117233	20.6386	20.63

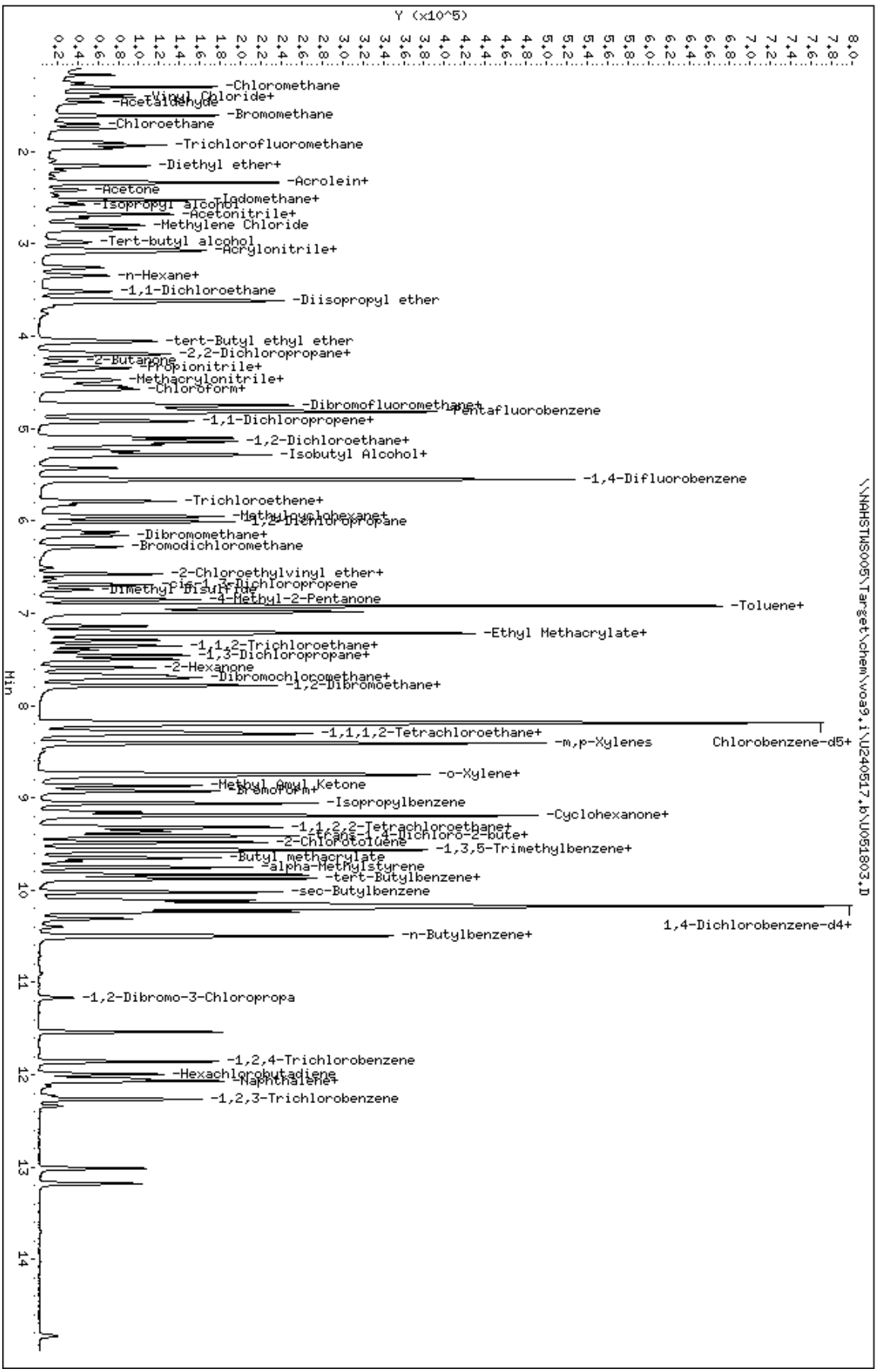
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	140938	18.8515	18.85
81	sec-Butylbenzene	105	10.019	10.018	(0.985)	152678	19.8074	19.80
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	138209	19.6325	19.63
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	88258	19.1693	19.16
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	88258	19.1693	19.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	122564	17.4546	17.45
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	82819	19.4024	19.40
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	6798	15.8493	15.84
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	53971	18.3132	18.31
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	22012	19.0213	19.02
92	Naphthalene	128	12.065	12.065	(1.187)	129426	17.9771	17.97
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	50578	19.6044	19.60
146	Methyl acetate	43	2.716	2.709	(0.564)	42133	19.8708	19.87
138	Freon TF	101	2.338	2.326	(0.485)	56919	18.2275	18.22
141	Cyclohexane	56	4.782	4.778	(0.993)	58067	19.0902	19.09
142	Tetrahydrofuran	42	4.545	4.538	(0.944)	15206	36.1818	36.18
147	Methylcyclohexane	55	5.948	5.944	(1.071)	92761	18.9743	18.97
135	1,4-Dioxane	88	6.169	6.165	(1.281)	8232	323.805	323.80
132	n-Butanol	56	5.828	5.820	(1.210)	20204	316.461	316.46(a)
136	n-Hexane	57	3.342	3.331	(0.694)	32917	15.7888	15.78
139	Diethyl ether	59	2.150	2.139	(0.447)	29302	18.3805	18.38
148	Tert-butyl alcohol	59	2.979	2.971	(0.619)	57555	315.151	315.15
149	Isopropyl alcohol	45	2.574	2.562	(0.535)	45009	316.778	316.77
152	Amyl alcohol	42	7.398	7.394	(0.904)	21079	323.769	323.76
156	Diisopropyl ether	45	3.623	3.616	(0.752)	127534	18.8336	18.83
162	Butyl acrylate	55	8.733	8.729	(1.067)	70641	15.6788	15.67
187	n-Amyl acetate	43	8.928	8.928	(1.091)	76346	17.9448	17.94
164	Dicyclopentadiene	66	10.199	10.198	(1.003)	172241	20.3420	20.34
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	128168	19.1578	19.15
167	Ethanol	45	2.098	2.086	(0.436)	8461	379.423	379.42
172	tert-Butyl formate	59	5.243	5.239	(1.089)	62978	30.7115	30.71
173	3,3-Dimethyl-1-butanol	57	7.781	7.780	(0.951)	82637	328.425	328.42
174	tert-Amyl methyl ether	73	5.288	5.280	(1.098)	120526	18.2251	18.22
175	tert-Butyl ethyl ether	59	4.054	4.043	(0.842)	116992	18.3807	18.38
176	tert-Amyl alcohol	59	5.243	5.239	(1.089)	62978	312.925	312.92
151	4-Methyl-2-pentanol	45	7.215	7.214	(1.299)	235869	325.367	325.36
140	1,3-Butadiene	54	1.408	1.396	(0.292)	20164	19.5964	19.59
182	Epichlorohydrin	57	6.630	6.626	(1.194)	12330	68.2745	68.27
M 94	1,2-Dichloroethylene (total)	96				77362	37.4179	37.41
M 95	Xylenes (total)	106				206815	59.5233	59.52
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	58527	19.2434	19.24
130	Ethyl Acetate	43	4.343	4.335	(0.902)	48083	19.8293	19.82
131	Methyl Acrylate	55	4.373	4.362	(0.908)	47868	17.1476	17.14
189	n-Butyl acetate	43	7.702	7.702	(0.941)	71865	17.9322	17.93
134	Cyclohexanone	55	9.153	9.153	(0.900)	40336	330.398	330.39(a)
185	Isoprene	39	2.158	2.146	(0.448)	8894	18.4947	18.49
188	Isopropyl acetate	43	5.284	5.280	(0.951)	122875	18.2153	18.21
150	Allyl alcohol	57	3.342	3.331	(0.694)	32917	315.776	315.77
194	Acetaldehyde	44	1.464	1.453	(0.304)	74822	208.898	208.89
195	Methyl Amyl Ketone	43	8.868	8.864	(1.083)	92101	17.5091	17.50
200	Dimethyl Disulfide	94	6.746	6.742	(0.824)	20453	12.6624	12.66
133	Ethyl Acrylate	55	5.948	5.944	(1.235)	92761	18.6820	18.68

163	Butyl methacrylate	41	9.647	9.647 (0.949)	51626	19.0979	19.09
159	Propylene oxide	43	2.206	2.195 (0.458)	6537	32.9542	32.95

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	38778	15.2012	15.20

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\U240517,b\U051803,D
Date : 18-MAY-2024 04:23
Client ID: VLCSW-240518
Sample Info: VLCSW-240518;VLCSW-240518;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

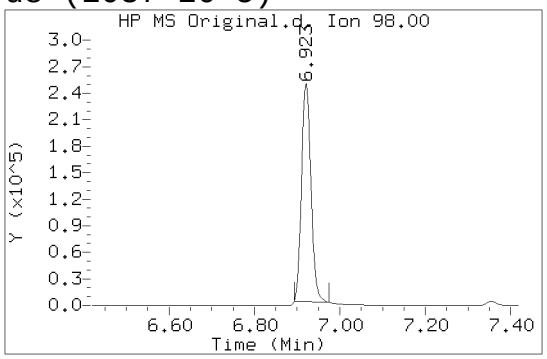
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051803.D
Inj Date : 18-MAY-2024 04:23
InstruID : VOA9.i
LabSampID : VLCSW-240518

Toluene-d8 (2037-26-5)

Reason Code:

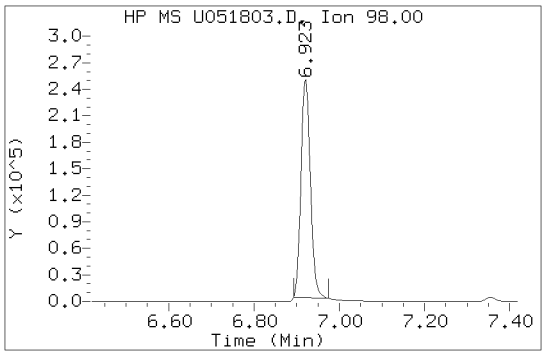
BEFORE

MASS
98
AREA
386950
HEIGHT
246804
06-Jun-2024
15:19
rucha
patel



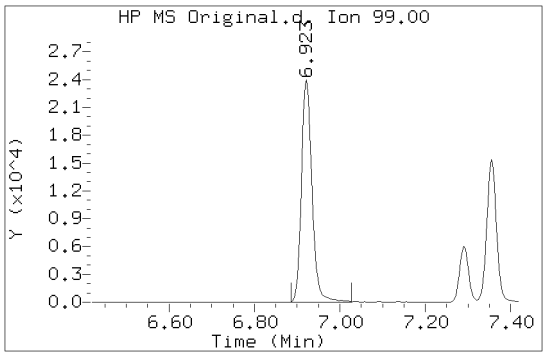
AFTER

MASS
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AREA
386950
HEIGHT
246804
06-Jun-2024
15:19
rucha
patel



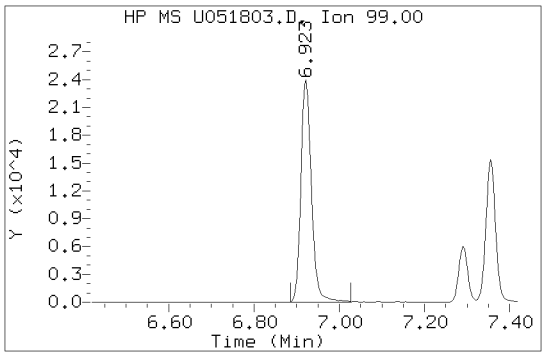
BEFORE

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HEIGHT
23968
06-Jun-2024
15:19
rucha
patel



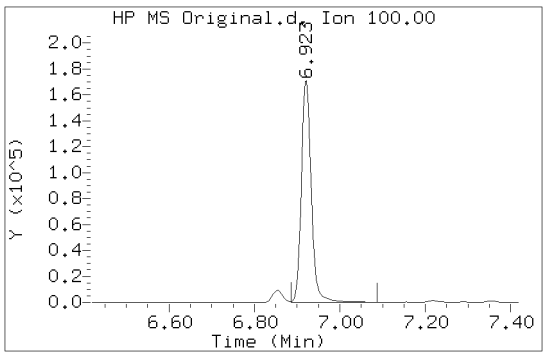
AFTER

MASS
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AREA
41975
HEIGHT
23968
06-Jun-2024
15:19
rucha
patel



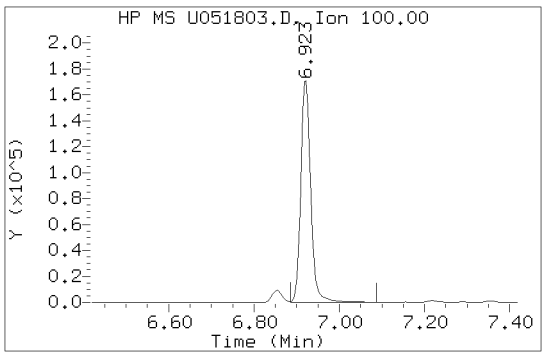
BEFORE

MASS
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AREA
280775
HEIGHT
170891
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
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AREA
280775
HEIGHT
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06-Jun-2024
15:19
rucha
patel

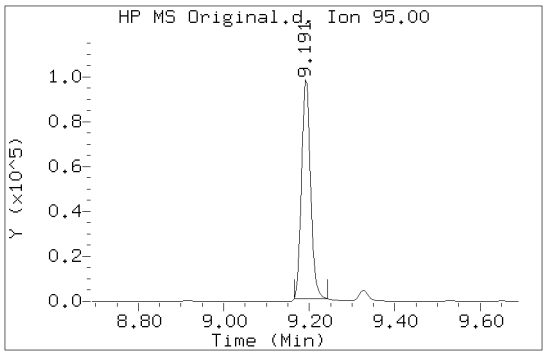


4-Bromofluorobenzene (460-00-4)

Reason Code:

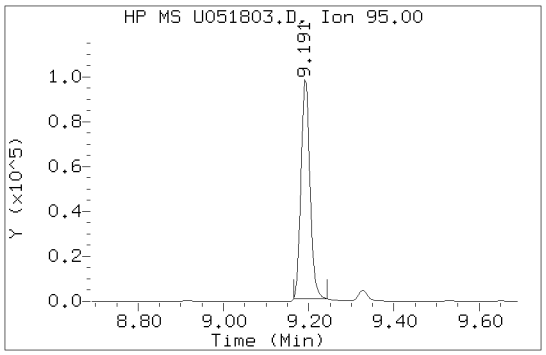
BEFORE

MASS
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AREA
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HEIGHT
97536
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
95
AREA
146512
HEIGHT
97536
06-Jun-2024
15:19
rucha
patel



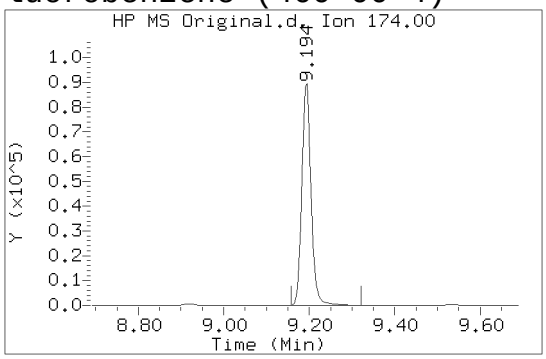
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051803.D
Inj Date : 18-MAY-2024 04:23
InstruID : VOA9.i
LabSampID : VLCSW-240518

4-Bromofluorobenzene (460-00-4)

Reason Code:

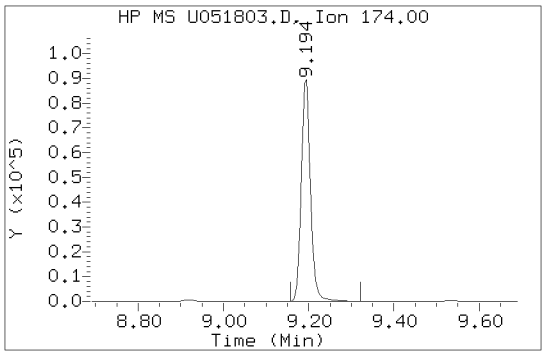
BEFORE

MASS
174
AREA
137475
HEIGHT
89456
06-Jun-2024
15:19
rucha
patel



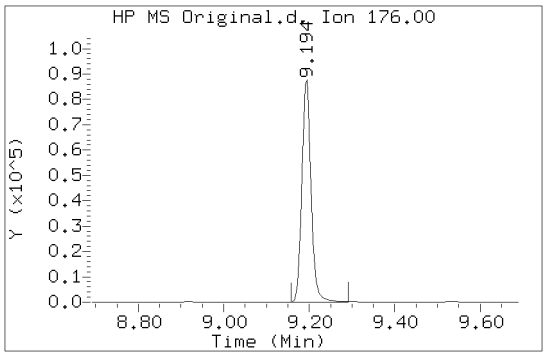
AFTER

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AREA
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HEIGHT
89456
06-Jun-2024
15:19
rucha
patel



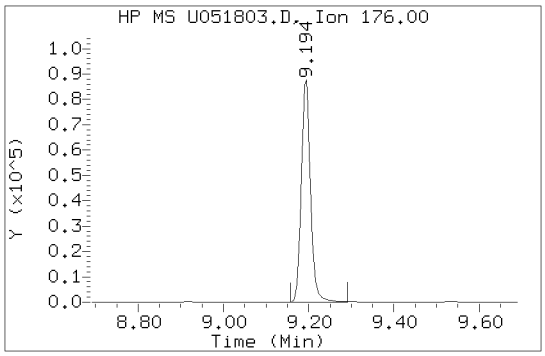
BEFORE

MASS
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AREA
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HEIGHT
87634
06-Jun-2024
15:19
rucha
patel



AFTER

MASS
176
AREA
134244
HEIGHT
87634
06-Jun-2024
15:19
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051805.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051805.D
Lab Smp Id: VBLKW-240518 Client Smp ID: VBLKW-240518
Inj Date : 18-MAY-2024 05:06
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240518;VBLKW-240518;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 37 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

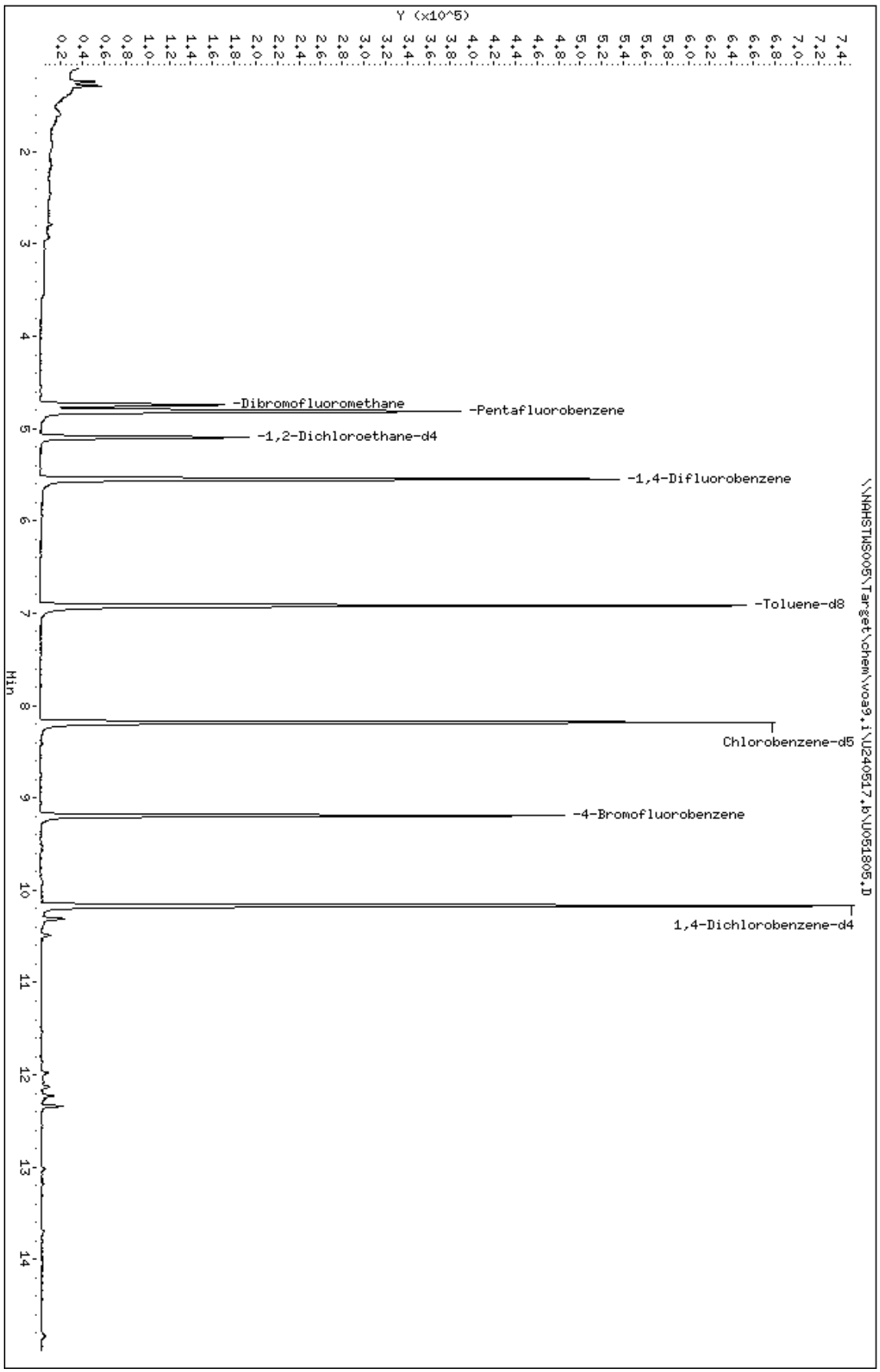
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.812	(1.000)	284716	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	100581	54.0585	54.05
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	124033	55.4341	55.43
* 36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	422144	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	379163	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	398031	55.3364	55.33(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	152529	55.0723	55.07
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	197814	50.0000	

QC Flag Legend

M - Compound response manually integrated.

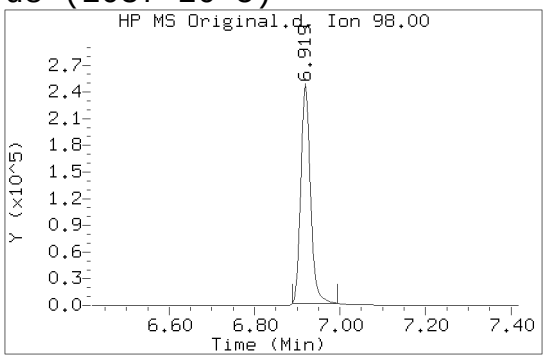

Data File: \\NAHSTWS005\Target\chem\voa9,i\U240517,b\U051805,D
Date : 18-MAY-2024 05:06
Client ID: VBLKW-240518
Sample Info: VBLKW-240518;VBLKW-240518;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9,i\U240517,b\U051805,D
Min

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051805.D
Inj Date : 18-MAY-2024 05:06
InstruID : VOA9.i
LabSampID : VBLKW-240518

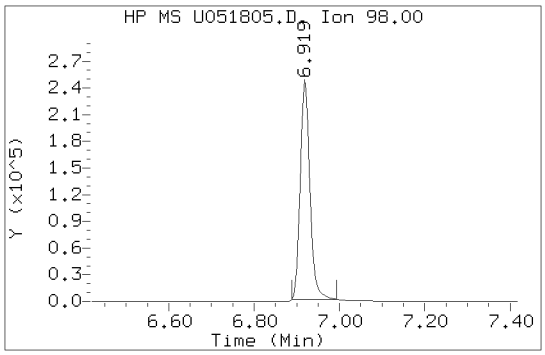
Toluene-d8 (2037-26-5)

Reason Code:

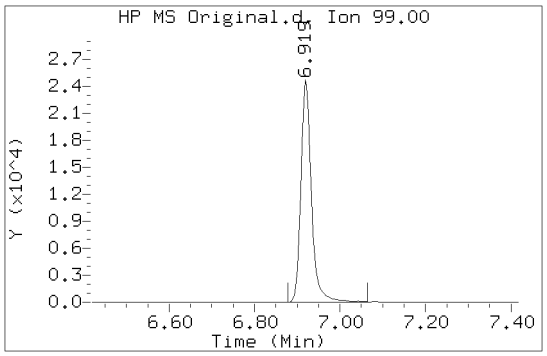
BEFORE
MASS
98
AREA
398031
HEIGHT
247081
06-Jun-2024
15:19
rucha
patel



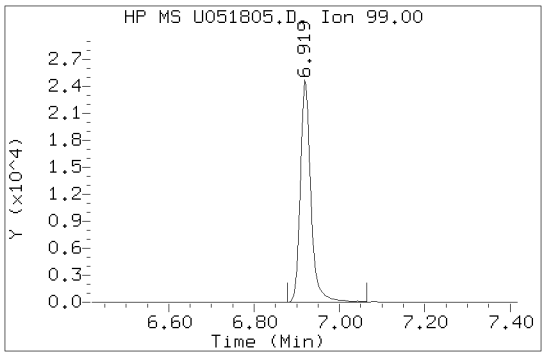
AFTER
MASS
98
AREA
398031
HEIGHT
247081
06-Jun-2024
15:19
rucha
patel



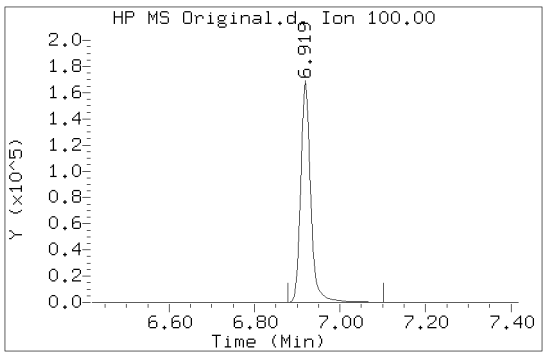
BEFORE
MASS
99
AREA
43463
HEIGHT
24712
06-Jun-2024
15:19
rucha
patel



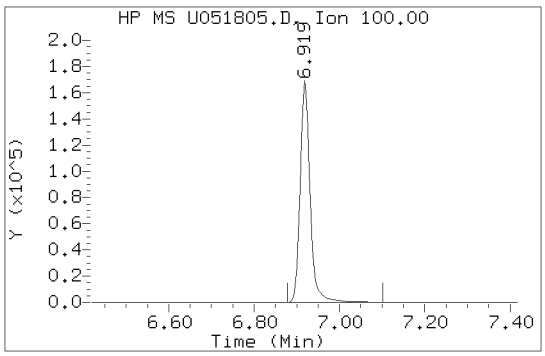
AFTER
MASS
99
AREA
43463
HEIGHT
24712
06-Jun-2024
15:19
rucha
patel



BEFORE
MASS
100
AREA
280760
HEIGHT
169152
06-Jun-2024
15:19
rucha
patel



AFTER
MASS
100
AREA
280760
HEIGHT
169152
06-Jun-2024
15:19
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051806.D Page 1
Report Date: 07-Jun-2024 08:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051806.D
Lab Smp Id: HS24050838-02
Inj Date : 18-MAY-2024 05:28
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050838-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 07-Jun-2024 08:37 r.patel   Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40   Cal File: U051603.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

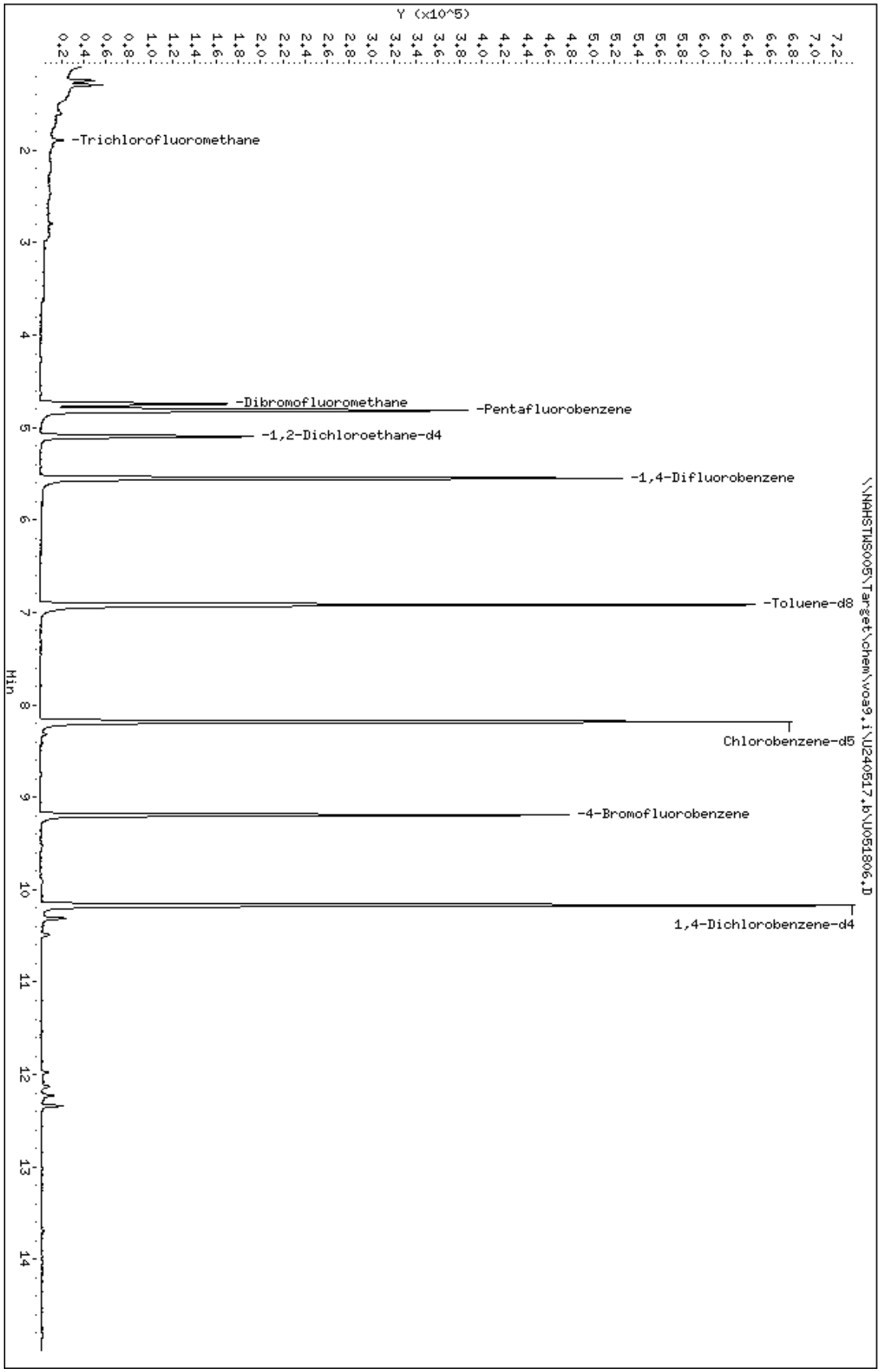
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.812	(1.000)	282074	50.0000	
8 Trichlorofluoromethane	101	1.891	1.888	(0.393)	7146	3.02416	3.02(H)
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	98920	53.6637	53.66
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	123649	55.7801	55.78
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	415661	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	373367	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	396023	55.9120	55.91(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	150105	55.0385	55.03
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	192944	50.0000	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240517,b\U051806,D
Date : 18-MAY-2024 05:28
Client ID:
Sample Info: HS24050838-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051806.D

Date : 18-MAY-2024 05:28

Client ID:

Instrument: VOA9.i

Sample Info: HS24050838-02

Purge Volume: 5.0

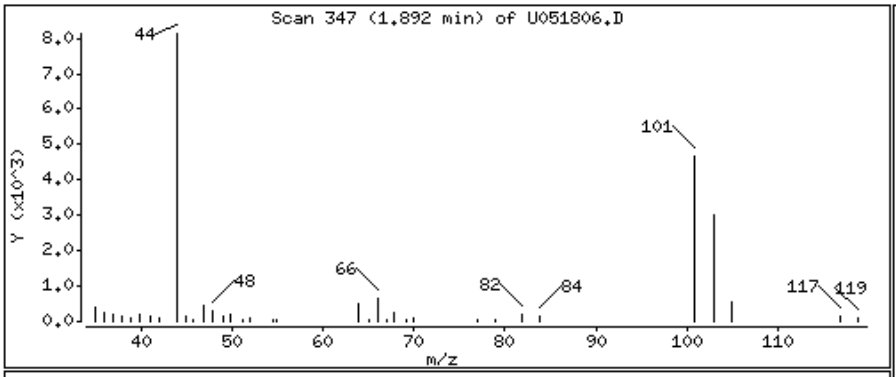
Operator: FT

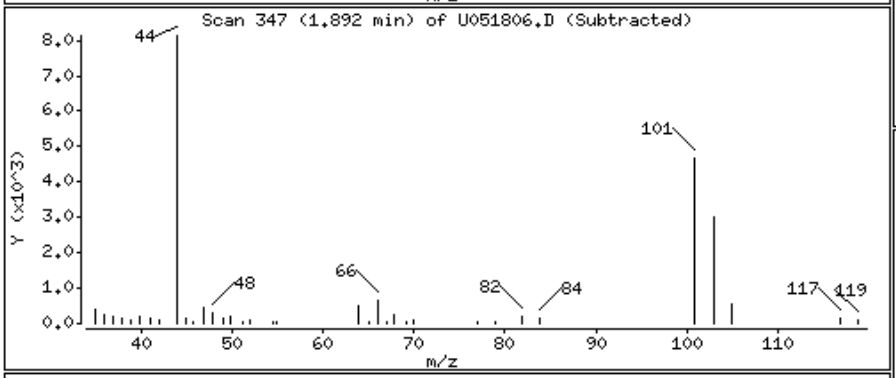
Column phase: DB624

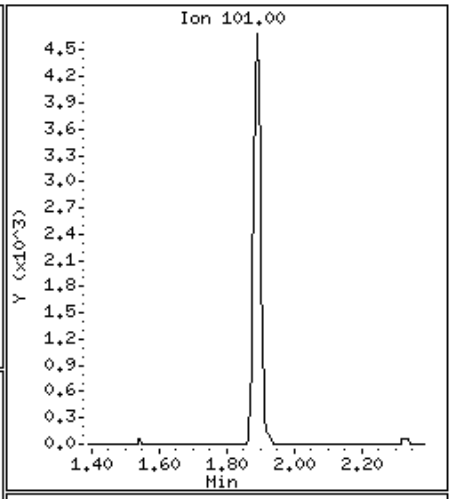
Column diameter: 0.18

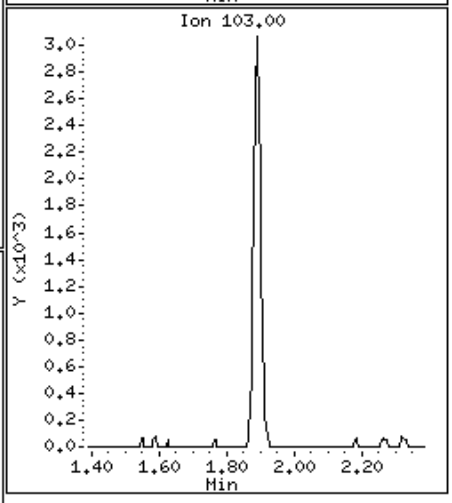
8 Trichlorofluoromethane

Concentration: 3.02 ug/l







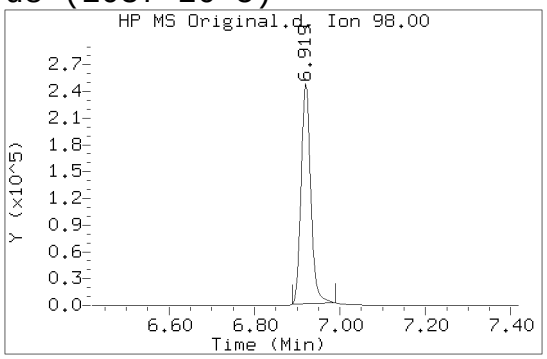


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051806.D
Inj Date : 18-MAY-2024 05:28
InstruID : VOA9.i
LabSampID : HS24050838-02

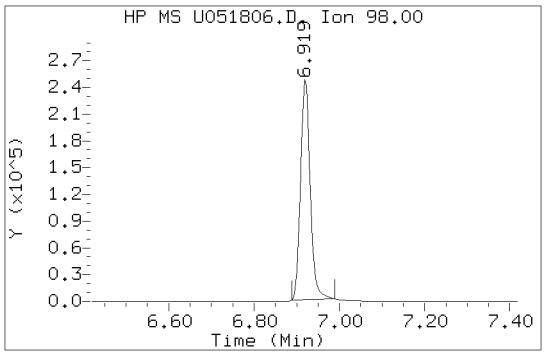
Toluene-d8 (2037-26-5)

Reason Code:

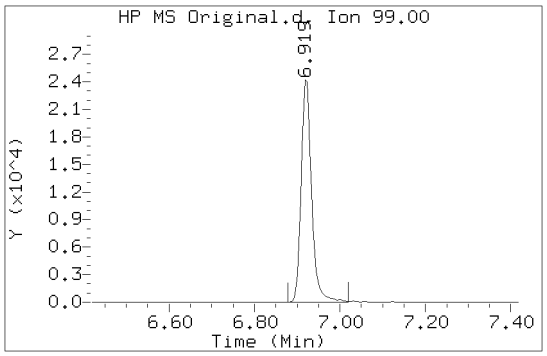
BEFORE
MASS
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AREA
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HEIGHT
246614
07-Jun-2024
08:38
rucha
patel



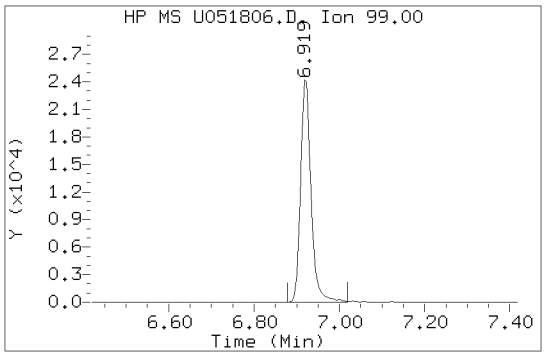
AFTER
MASS
98
AREA
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HEIGHT
246614
07-Jun-2024
08:38
rucha
patel



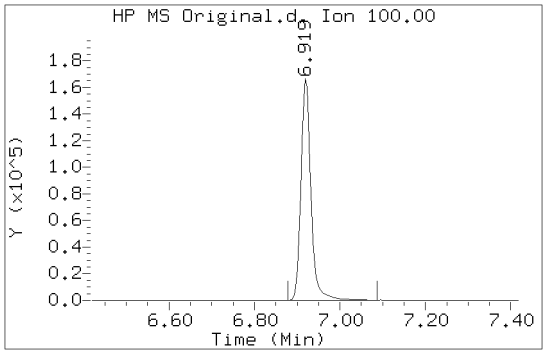
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07-Jun-2024
08:38
rucha
patel



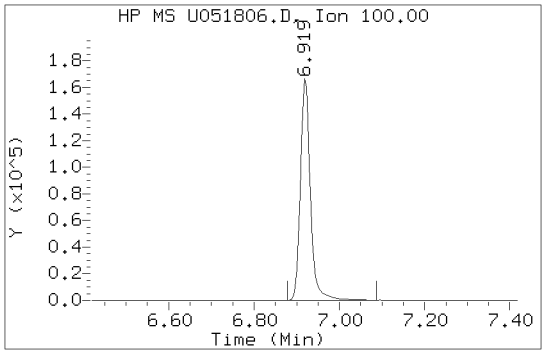
AFTER
MASS
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AREA
42137
HEIGHT
24208
07-Jun-2024
08:38
rucha
patel



BEFORE
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AREA
276061
HEIGHT
166542
07-Jun-2024
08:38
rucha
patel



AFTER
MASS
100
AREA
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HEIGHT
166542
07-Jun-2024
08:38
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D Page 1
Report Date: 07-Jun-2024 08:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D
Lab Smp Id: HS24050838-01
Inj Date : 18-MAY-2024 05:49
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050838-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 07-Jun-2024 08:37 r.patel   Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40   Cal File: U051603.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

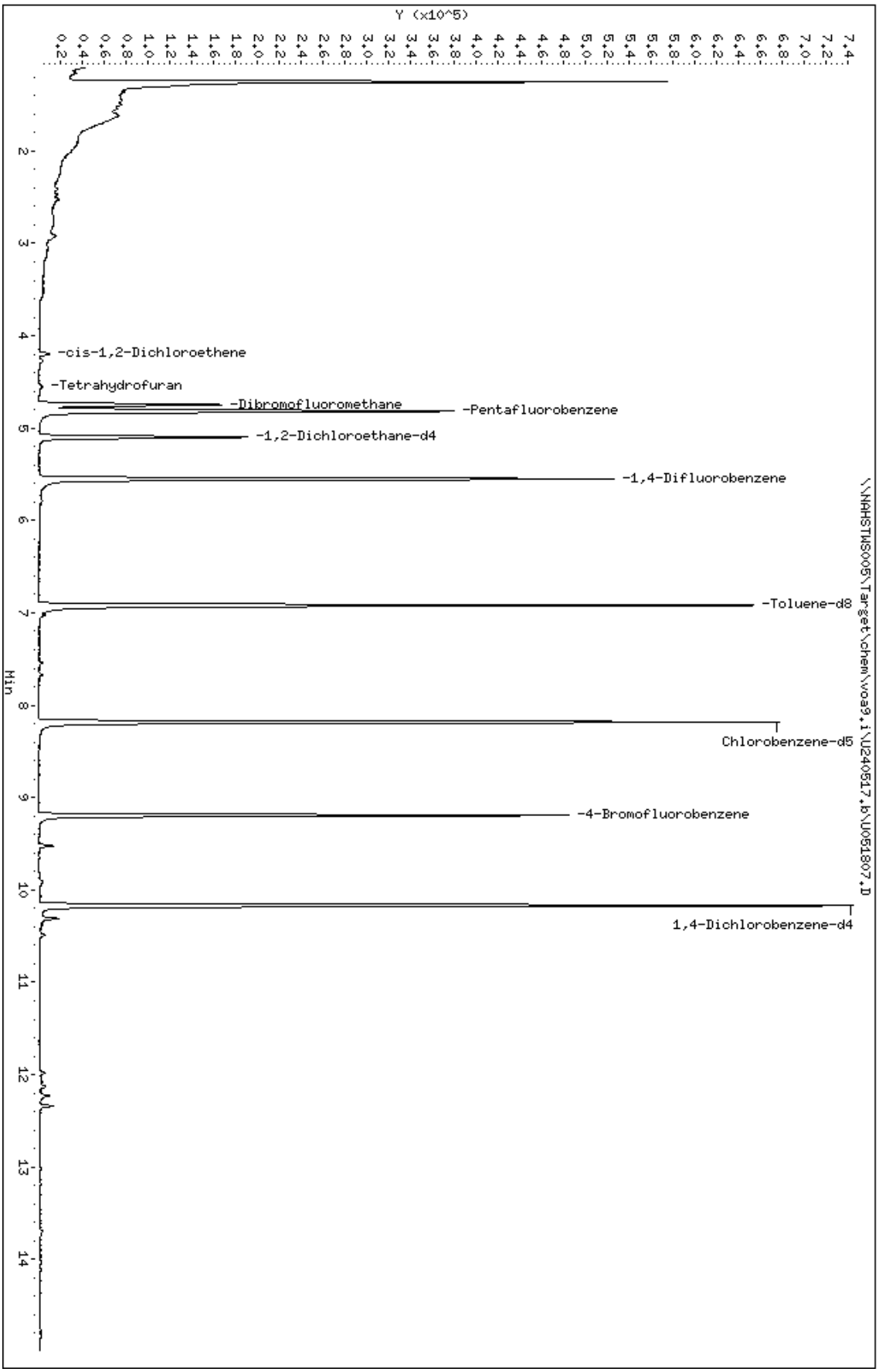
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.812	(1.000)	279851	50.0000	
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	4368	1.92776	1.92
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	100367	54.8812	54.88
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	124324	56.5301	56.53
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	411513	50.0000	
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	370520	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	393095	55.9250	55.92(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	150069	55.4481	55.44
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	191741	50.0000	
	142 Tetrahydrofuran	42	4.545	4.542	(0.944)	2665	5.77743	5.77
M	94 1,2-Dichloroethylene (total)	96				4368	2.10830	2.10(a)

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\U240517.b\U051807.D
Date : 18-MAY-2024 05:49
Client ID:
Sample Info: HS2405O838-01
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
-cis-1,2-Dichloroethene
-Tetrahydrofuran
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D
Min

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D Page 2

Date : 18-MAY-2024 05:49

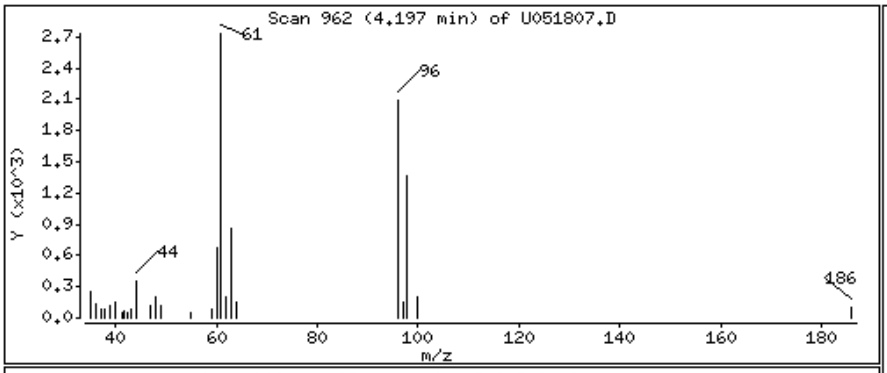
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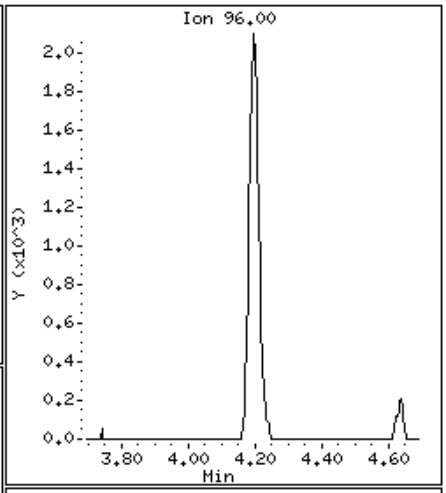
Sample Info: HS24050838-01

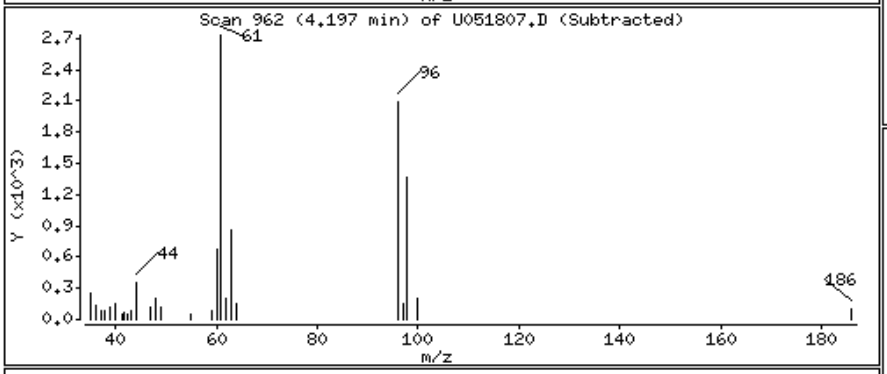
Purge Volume: 5.0 Operator: FT

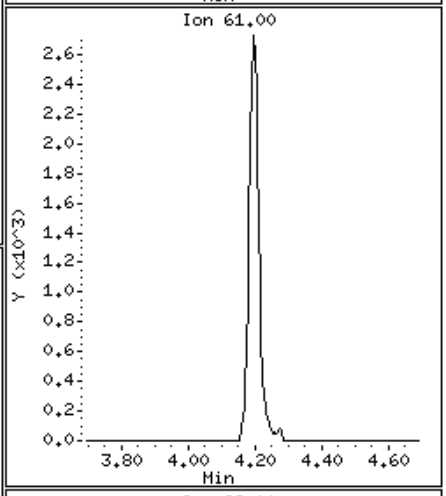
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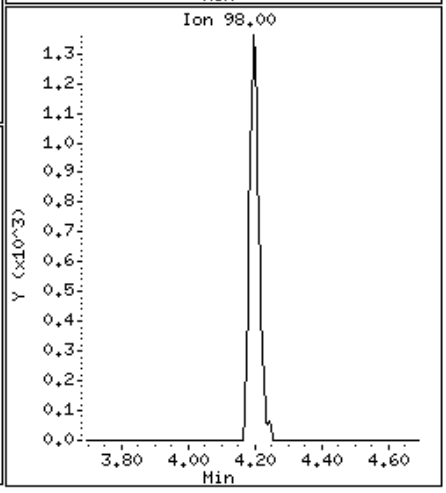
27 cis-1,2-Dichloroethene Concentration: 1.92 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D Page 3

Date : 18-MAY-2024 05:49

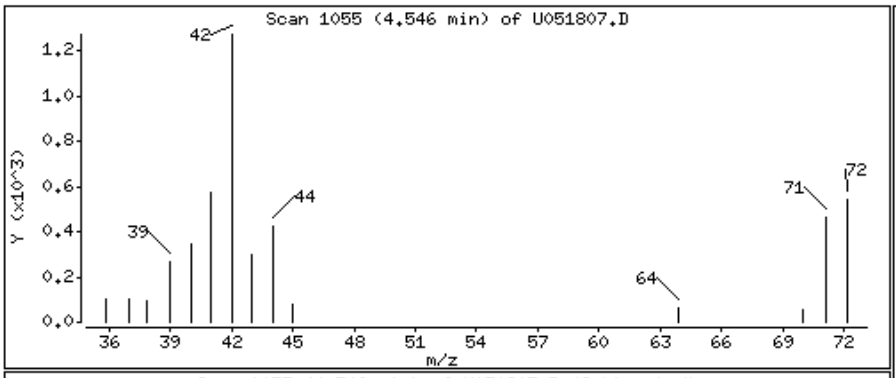
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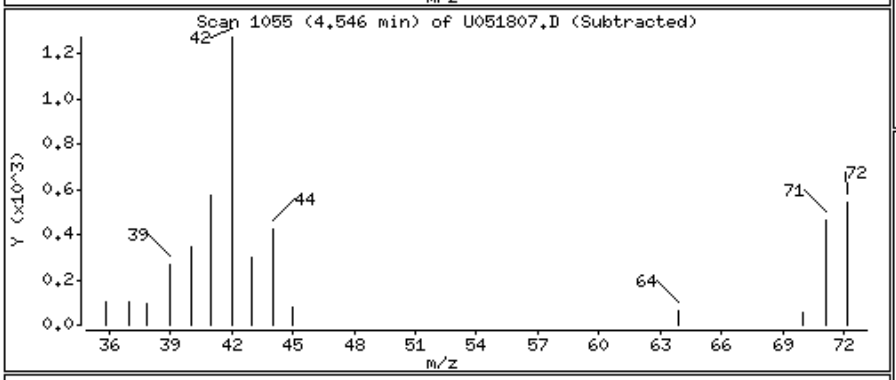
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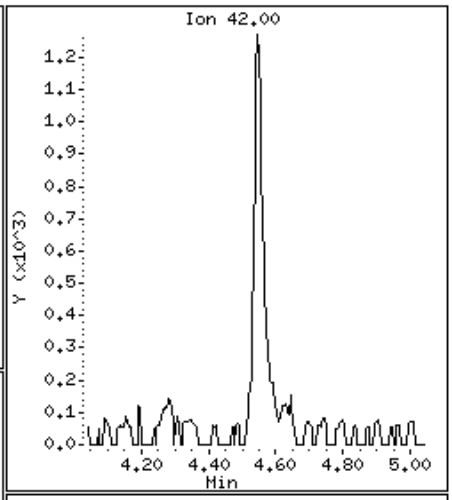
Purge Volume: 5.0 Operator: FT

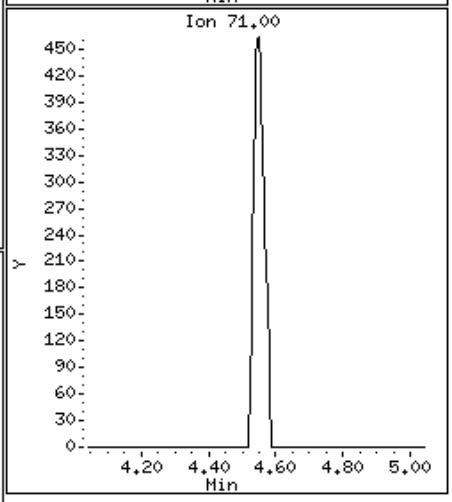
Column phase: DB624 Column diameter: 0.18

142 Tetrahydrofuran Concentration: 5.77 ug/l







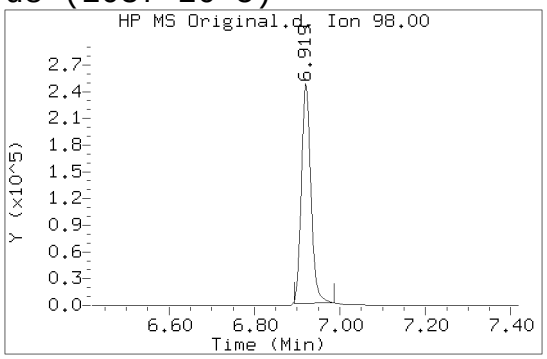


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051807.D
Inj Date : 18-MAY-2024 05:49
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LabSampID : HS24050838-01

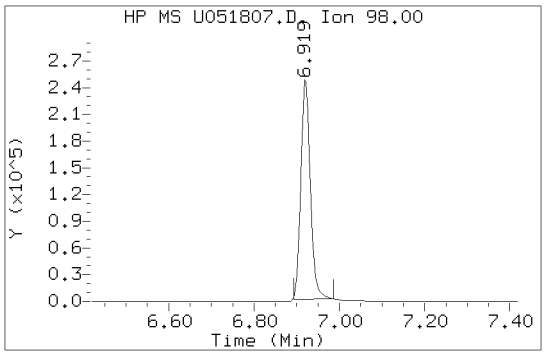
Toluene-d8 (2037-26-5)

Reason Code:

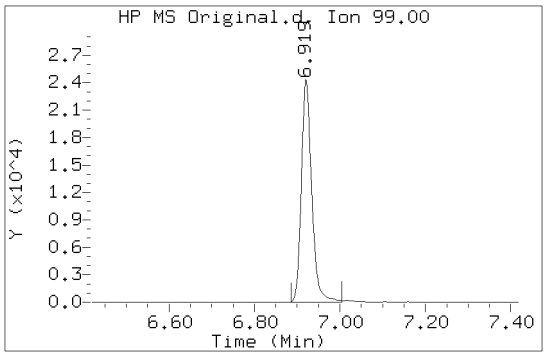
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HEIGHT
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07-Jun-2024
08:38
rucha
patel



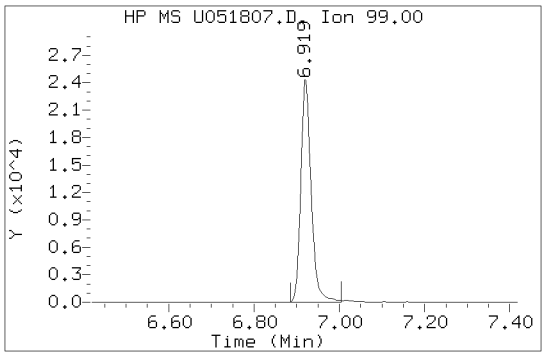
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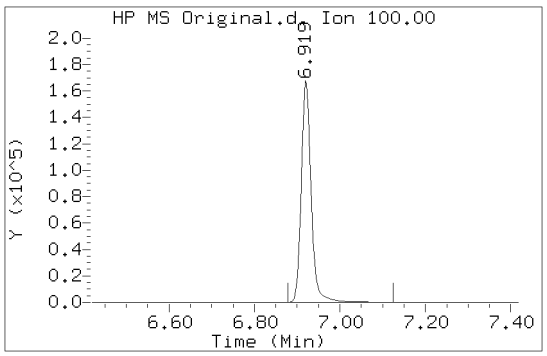
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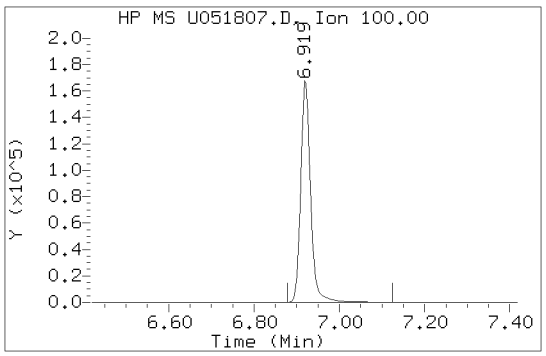
AFTER
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HEIGHT
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07-Jun-2024
08:38
rucha
patel



BEFORE
MASS
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AREA
275645
HEIGHT
167679
07-Jun-2024
08:38
rucha
patel



AFTER
MASS
100
AREA
275645
HEIGHT
167679
07-Jun-2024
08:38
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051809.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051809.D
Lab Smp Id: HS24050989-08MS Client Smp ID: HS24050989-08MS
Inj Date : 18-MAY-2024 06:33
Operator : FT Inst ID: VOA9.i
Smp Info : HS24050989-08MS;HS24050989-08MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 41 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.811	4.812	(1.000)	283485	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.157	(0.241)	30343	20.3718	20.37
3 Chloromethane	50	1.295	1.288	(0.269)	102554	13.2116	13.21
4 Propionitrile	54	4.335	4.332	(0.901)	63915	182.349	182.34(a)
5 Vinyl Chloride	62	1.374	1.370	(0.286)	49557	21.9724	21.97
6 Bromomethane	94	1.610	1.599	(0.335)	21917	28.5423	28.54
7 Chloroethane	64	1.693	1.685	(0.352)	35889	22.3278	22.32
8 Trichlorofluoromethane	101	1.891	1.884	(0.393)	56204	21.1734	21.17
9 Acrolein	56	2.262	2.255	(0.470)	3795	43.1324	43.13
10 Acetone	43	2.409	2.401	(0.501)	32804	36.1887	36.18
11 1,1-Dichloroethene	96	2.330	2.322	(0.484)	33820	21.1352	21.13
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	127321	355.391	355.39(a)
13 Acetonitrile	39	2.667	2.664	(0.554)	42760	185.171	185.17(a)
14 Allyl Chloride	41	2.671	2.664	(0.555)	107324	18.6438	18.64(a)
15 Iodomethane	142	2.465	2.457	(0.512)	14494	77.5603	77.56
16 Acrylonitrile	53	3.065	3.061	(0.637)	31687	36.7597	36.75
17 Methylene Chloride	84	2.791	2.787	(0.580)	41817	18.1405	18.14
18 Methyl tert-butyl ether	73	3.080	3.076	(0.640)	103432	17.6972	17.69
19 Carbon Disulfide	76	2.517	2.510	(0.523)	199652	41.0394	41.03
20 trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	37310	19.6145	19.61

21 Vinyl Acetate	43	4.339	4.335 (0.902)	49355	39.9333	39.93
22 1,1-Dichloroethane	63	3.511	3.503 (0.730)	73051	20.8323	20.83

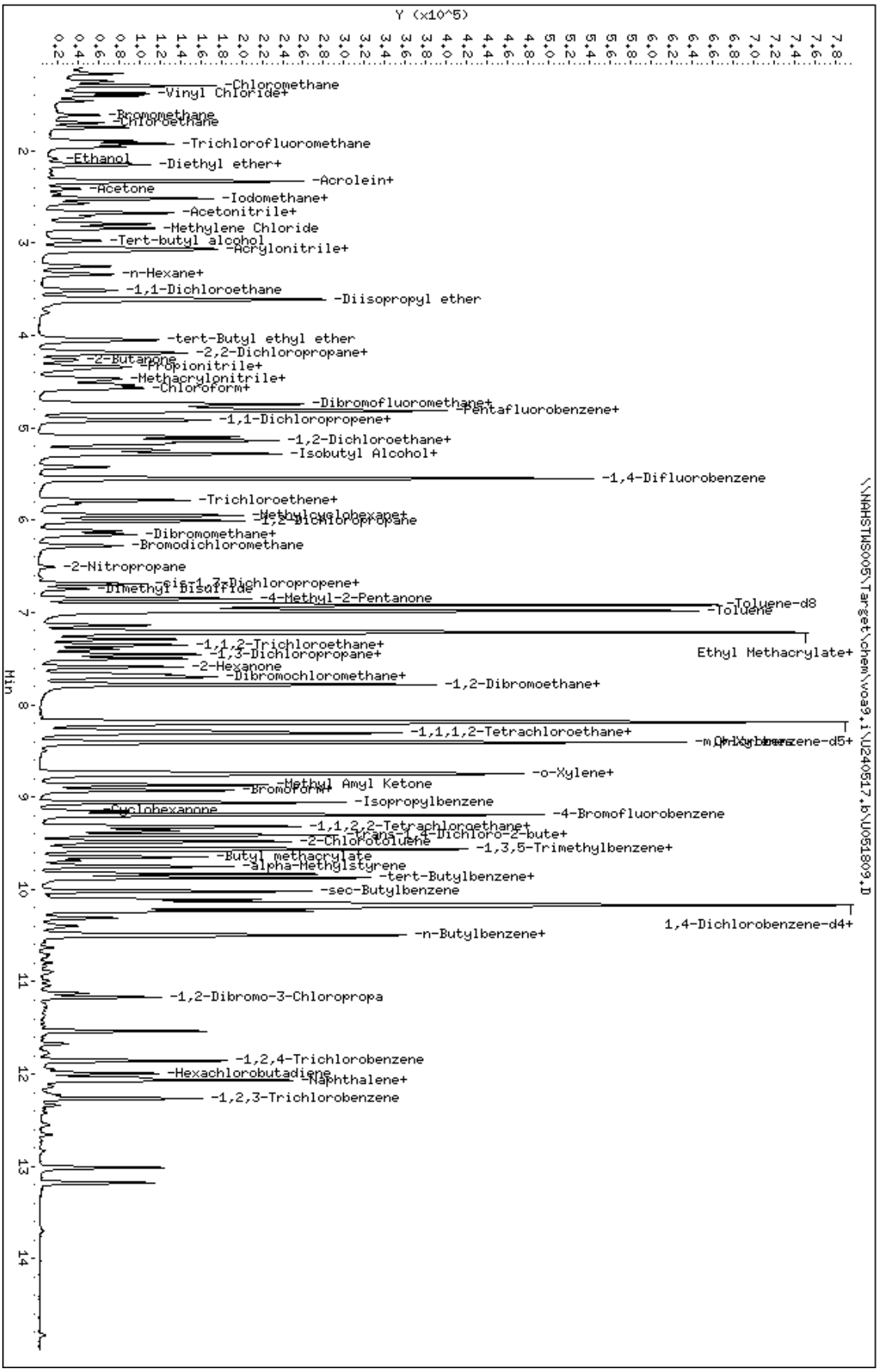
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	24 2-Butanone	43	4.264	4.260	(0.886)	49811	39.1981	39.19
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	24875	17.4962	17.49(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	38667	14.3487	14.34
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	50603	22.0467	22.04
	28 Chloroform	83	4.572	4.568	(0.950)	71748	20.0947	20.09
	29 Bromochloromethane	128	4.467	4.463	(0.928)	22168	19.5979	19.59
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	104119	56.2030	56.20
	31 1,1,1-Trichloroethane	97	4.740	4.737	(0.985)	57296	20.3683	20.36
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	54597	21.3404	21.34
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	57736	20.2169	20.21
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	43928	19.8391	19.83
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	124168	55.7354	55.73
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	419713	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	199583	23.5233	23.52
	38 Trichloroethene	130	5.786	5.782	(1.043)	46808	22.7454	22.74
	39 Bromodichloromethane	83	6.277	6.274	(1.131)	46970	18.9382	18.93
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	15793	18.6232	18.62(a)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	44537	19.4667	19.46
	43 2-Nitropropane	43	6.506	6.573	(1.352)	9027	5.58562	5.58
	44 Dibromomethane	93	6.116	6.116	(1.102)	26078	19.1219	19.12
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	123252	46.2659	46.26
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	54311	16.9078	16.90
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	370276	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	412416	58.7125	58.71
	49 Ethyl Methacrylate	69	7.214	7.214	(1.300)	90007	31.4210	31.42
	50 Toluene	91	6.978	6.978	(0.853)	374683	42.8071	42.80
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	44623	16.7812	16.78
	52 2-Hexanone	43	7.589	7.589	(0.928)	86039	47.0966	47.09
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	34311	20.4972	20.49
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	74301	20.0559	20.05
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	34797	17.3061	17.30
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	33281	20.1200	20.11
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	39299	20.1276	20.12
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	37877	19.2742	19.27
	59 Chlorobenzene	112	8.208	8.208	(1.003)	112153	19.5725	19.57
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	36192	19.2949	19.29
	61 Ethylbenzene	106	8.305	8.305	(1.015)	70922	25.6157	25.61
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	173218	49.6137	49.61
	63 o-Xylene	106	8.744	8.744	(1.069)	88190	25.2536	25.25
	64 Styrene	104	8.759	8.759	(1.071)	120249	19.8610	19.86
	66 Bromoform	173	8.916	8.916	(1.090)	21372	15.7894	15.78
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	185260	22.2573	22.25
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	59744	20.6028	20.60
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	152595	56.4185	56.41
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	196218	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	57117	18.4826	18.48
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	10853	15.5565	15.55(a)
	73 n-Propylbenzene	91	9.407	9.411	(0.925)	215743	22.7243	22.72
	74 Bromobenzene	156	9.317	9.314	(0.916)	47474	19.7658	19.76
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	162322	22.8158	22.81
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	125462	20.3749	20.37
	77 4-Chlorotoluene	91	9.572	9.572	(0.941)	142322	20.0865	20.08

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	123215	21.6934	21.69
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	164147	22.0208	22.02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	165431	21.4636	21.46
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	147535	20.9590	20.95
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	86356	18.7577	18.75
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	86356	18.7577	18.75
87	n-Butylbenzene	91	10.491	10.491	(1.032)	126902	18.1292	18.12
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	81842	19.1751	19.17
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	7512	17.5153	17.51
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	51041	17.3204	17.32
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	20225	17.4853	17.48
92	Naphthalene	128	12.065	12.065	(1.187)	173301	24.0733	24.07
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	48150	18.6648	18.66
146	Methyl acetate	43	2.712	2.709	(0.564)	46442	21.5774	21.57
138	Freon TF	101	2.330	2.326	(0.484)	61845	19.4547	19.45
141	Cyclohexane	56	4.781	4.778	(0.994)	72112	23.6234	23.62
142	Tetrahydrofuran	42	4.542	4.538	(0.944)	16628	39.0410	39.04
147	Methylcyclohexane	55	5.944	5.944	(1.071)	103119	20.6011	20.60
135	1,4-Dioxane	88	6.165	6.165	(1.281)	8299	321.497	321.49
132	n-Butanol	56	5.824	5.820	(1.210)	21838	336.969	336.96(a)
136	n-Hexane	57	3.338	3.331	(0.694)	35457	16.7321	16.73
139	Diethyl ether	59	2.142	2.139	(0.445)	29075	17.9669	17.96
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	67694	365.157	365.15
149	Isopropyl alcohol	45	2.566	2.562	(0.533)	47334	328.188	328.18
152	Amyl alcohol	42	7.398	7.394	(0.904)	28369	431.289	431.28
156	Diisopropyl ether	45	3.619	3.616	(0.752)	127149	18.4976	18.49
162	Butyl acrylate	55	8.733	8.729	(1.067)	78410	17.2253	17.22
187	n-Amyl acetate	43	8.927	8.928	(1.091)	88332	20.5498	20.54
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	163313	19.2501	19.25
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	137135	20.4998	20.49
167	Ethanol	45	2.086	2.086	(0.434)	8151	359.371	359.37
172	tert-Butyl formate	59	5.239	5.239	(1.089)	79088	37.9942	37.99
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	154029	605.903	605.90
174	tert-Amyl methyl ether	73	5.284	5.280	(1.098)	119758	17.8397	17.83
175	tert-Butyl ethyl ether	59	4.047	4.043	(0.841)	114405	17.7070	17.70
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	79088	387.130	387.13
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	439230	591.759	591.75
140	1,3-Butadiene	54	1.400	1.396	(0.291)	22641	21.6564	21.65
182	Epichlorohydrin	57	6.630	6.626	(1.195)	3144	17.0031	17.00
M 94	1,2-Dichloroethylene (total)	96				87913	41.8890	41.88
M 95	Xylenes (total)	106				261408	73.4808	73.48
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	50763	16.6920	16.69
130	Ethyl Acetate	43	4.339	4.335	(0.902)	49355	20.0512	20.05
131	Methyl Acrylate	55	4.369	4.362	(0.908)	51419	18.1458	18.14
189	n-Butyl acetate	43	7.702	7.702	(0.941)	81344	20.0900	20.08
134	Cyclohexanone	55	9.152	9.153	(0.900)	36361	297.862	297.86(a)
185	Isoprene	39	2.154	2.146	(0.448)	9692	19.8544	19.85
188	Isopropyl acetate	43	5.280	5.280	(0.951)	127172	18.4125	18.41
150	Allyl alcohol	57	3.338	3.331	(0.694)	35457	334.642	334.64
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	129765	24.4171	24.41
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	17963	11.3752	11.37
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	103119	20.4593	20.45
163	Butyl methacrylate	41	9.647	9.647	(0.949)	42867	15.8590	15.85
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	32293	12.5858	12.58

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051809.D
Date : 18-MAY-2024 06:33
Client ID: HS24050989-08MS
Sample Info: HS24050989-08MS;HS24050989-08MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051809.D
Inj Date : 18-MAY-2024 06:33
InstruID : VOA9.i
LabSampID : HS24050989-08MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051810.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051810.D
Lab Smp Id: HS24050989-08MSD Client Smp ID: HS24050989-08MSD
Inj Date : 18-MAY-2024 06:54
Operator : FT Inst ID: VOA9.i
Smp Info : HS24050989-08MSD;HS24050989-08MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 41 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.811	4.812	(1.000)	289126	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.157	(0.240)	30250	19.9249	19.92
3 Chloromethane	50	1.288	1.288	(0.268)	104308	13.1534	13.15
4 Propionitrile	54	4.332	4.332	(0.900)	64014	179.068	179.06(a)
5 Vinyl Chloride	62	1.370	1.370	(0.285)	48663	21.1551	21.15
6 Bromomethane	94	1.603	1.599	(0.333)	20628	26.2498	26.24
7 Chloroethane	64	1.689	1.685	(0.351)	33088	20.2715	20.27
8 Trichlorofluoromethane	101	1.887	1.884	(0.392)	55250	20.4229	20.42
9 Acrolein	56	2.259	2.255	(0.469)	4315	48.4761	48.47
10 Acetone	43	2.401	2.401	(0.499)	33163	35.8304	35.83
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	33369	20.4465	20.44
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	134764	368.827	368.82(a)
13 Acetonitrile	39	2.663	2.664	(0.554)	42680	181.218	181.21(a)
14 Allyl Chloride	41	2.663	2.664	(0.554)	107659	18.3371	18.33(a)
15 Iodomethane	142	2.457	2.457	(0.511)	13076	69.1911	69.19
16 Acrylonitrile	53	3.061	3.061	(0.636)	31811	36.1643	36.16
17 Methylene Chloride	84	2.787	2.787	(0.579)	41640	17.6739	17.67
18 Methyl tert-butyl ether	73	3.072	3.076	(0.639)	103123	17.3001	17.30
19 Carbon Disulfide	76	2.510	2.510	(0.522)	198800	40.0670	40.06
20 trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	37492	19.3256	19.32

21 Vinyl Acetate	43	4.335	4.335 (0.901)	49341	39.1431	39.14
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	72853	20.3705	20.37

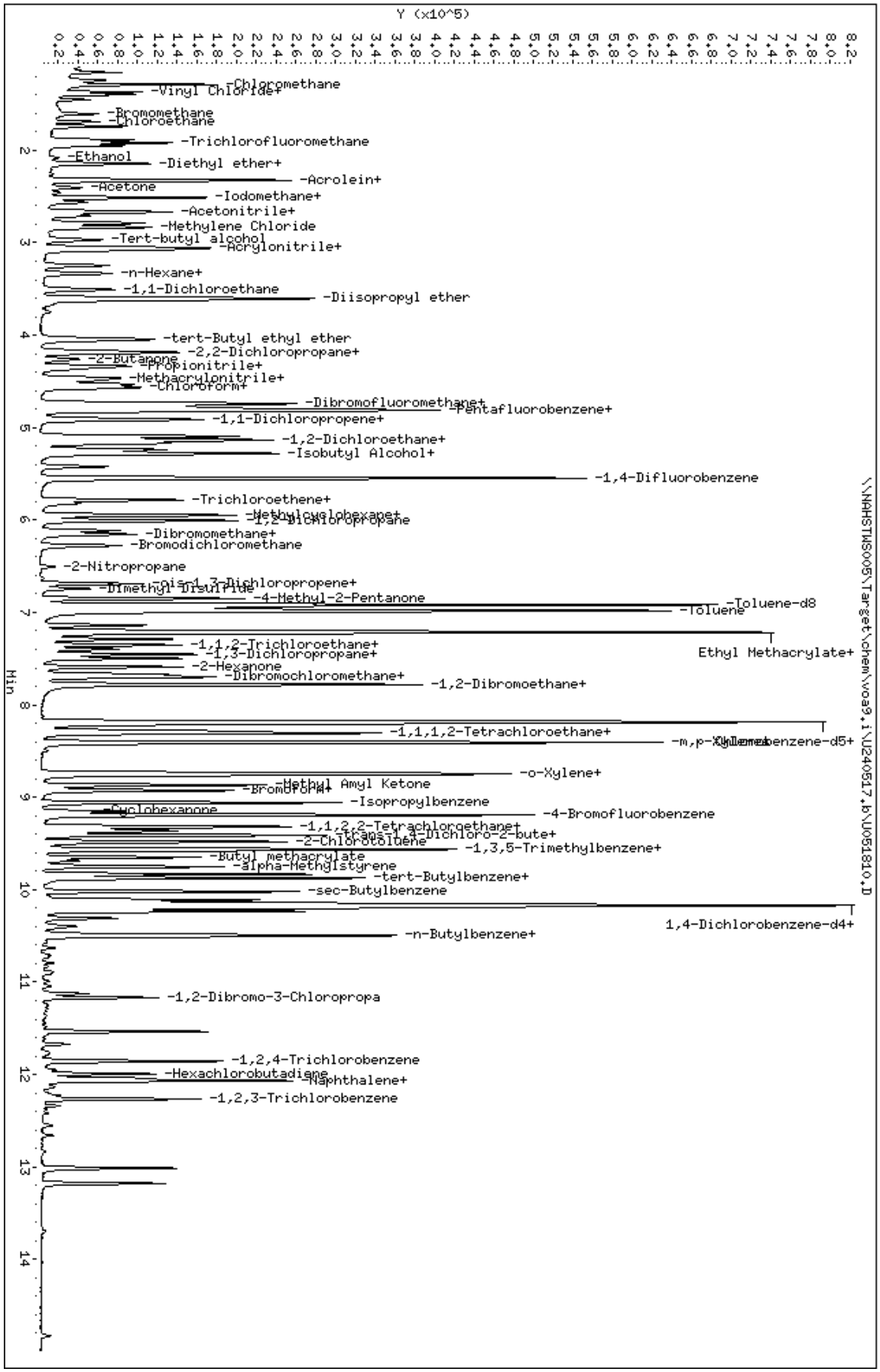
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	24 2-Butanone	43	4.260	4.260	(0.885)	50492	38.9588	38.95
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	26754	18.4507	18.45(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	38790	14.1135	14.11
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	50730	21.6708	21.67
	28 Chloroform	83	4.568	4.568	(0.949)	71534	19.6439	19.64
	29 Bromochloromethane	128	4.463	4.463	(0.928)	21658	18.7735	18.77
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	104389	55.2494	55.24
	31 1,1,1-Trichloroethane	97	4.736	4.737	(0.984)	56132	19.5776	19.57
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	53781	20.8103	20.81
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	57676	19.9931	19.99
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	43641	19.5268	19.52
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	125449	55.2118	55.21
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	423971	50.0000	
	37 Benzene	78	5.134	5.134	(0.926)	197238	23.0135	23.01
	38 Trichloroethene	130	5.782	5.782	(1.043)	46274	22.2601	22.26
	39 Bromodichloromethane	83	6.273	6.274	(1.131)	46069	18.3883	18.38
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	15991	18.4888	18.48(a)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	44338	19.1851	19.18
	43 2-Nitropropane	43	6.506	6.573	(1.352)	9269	5.62346	5.62
	44 Dibromomethane	93	6.116	6.116	(1.103)	26517	19.2486	19.24
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	125843	46.0885	46.08
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.206)	54435	16.7762	16.77
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	379515	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	418982	58.1951	58.19
	49 Ethyl Methacrylate	69	7.214	7.214	(1.301)	90202	31.1728	31.17
	50 Toluene	91	6.978	6.978	(0.853)	372879	41.5639	41.56
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.297)	45048	16.7709	16.77
	52 2-Hexanone	43	7.589	7.589	(0.928)	87767	46.8729	46.87
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	33243	19.3757	19.37
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	73095	19.2501	19.25
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	35417	17.1956	17.19
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	33392	19.7096	19.70
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	38901	19.4388	19.43
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	37545	18.8788	18.87
	59 Chlorobenzene	112	8.208	8.208	(1.003)	111988	19.0679	19.06
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	35626	18.5308	18.53
	61 Ethylbenzene	106	8.305	8.305	(1.015)	69385	24.4505	24.45
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	173195	48.3995	48.39
	63 o-Xylene	106	8.744	8.744	(1.069)	89055	24.8805	24.88
	64 Styrene	104	8.759	8.759	(1.071)	120802	19.4666	19.46
	66 Bromoform	173	8.916	8.916	(1.090)	22393	16.1244	16.12
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	184762	21.6571	21.65
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	59500	19.7083	19.70
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	153839	55.4938	55.49
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	204286	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	58761	18.2636	18.26
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9909	13.8576	13.85(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	213316	21.5813	21.58
	74 Bromobenzene	156	9.314	9.314	(0.916)	48048	19.2147	19.21
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	160519	21.6713	21.67
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	125739	19.6134	19.61
	77 4-Chlorotoluene	91	9.572	9.572	(0.941)	142410	19.3052	19.30

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	122803	20.7670	20.76
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	164480	21.1796	21.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	165058	20.5695	20.56
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	144660	19.7389	19.73
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	87073	18.1665	18.16
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	87073	18.1665	18.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	127584	17.4532	17.45
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	83001	18.6786	18.67
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	7903	17.6993	17.69
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	52747	17.1924	17.19
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	20028	16.6344	16.63
92	Naphthalene	128	12.065	12.065	(1.187)	179425	23.9396	23.93
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	48410	18.0245	18.02
146	Methyl acetate	43	2.708	2.709	(0.563)	47600	21.6839	21.68
138	Freon TF	101	2.326	2.326	(0.483)	60571	18.7137	18.71
141	Cyclohexane	56	4.778	4.778	(0.993)	71451	22.9169	22.91
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	16386	37.6940	37.69
147	Methylcyclohexane	55	5.944	5.944	(1.072)	102990	20.3686	20.36
135	1,4-Dioxane	88	6.165	6.165	(1.281)	8836	336.203	336.20
132	n-Butanol	56	5.824	5.820	(1.210)	21422	324.100	324.10(a)
136	n-Hexane	57	3.334	3.331	(0.693)	34722	16.0800	16.08
139	Diethyl ether	59	2.139	2.139	(0.445)	29430	17.8315	17.83
148	Tert-butyl alcohol	59	2.967	2.971	(0.617)	67493	356.969	356.96
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	46982	319.392	319.39
152	Amyl alcohol	42	7.398	7.394	(0.904)	29254	433.917	433.91
156	Diisopropyl ether	45	3.616	3.616	(0.751)	127997	18.2576	18.25
162	Butyl acrylate	55	8.729	8.729	(1.067)	80088	17.1656	17.16
187	n-Amyl acetate	43	8.928	8.928	(1.091)	88188	20.0169	20.01
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	165585	18.7274	18.72
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	134618	19.3288	19.32
167	Ethanol	45	2.079	2.086	(0.432)	8822	382.225	382.22
172	tert-Butyl formate	59	5.239	5.239	(1.089)	80101	37.7301	37.73
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	155350	596.223	596.22
174	tert-Amyl methyl ether	73	5.280	5.280	(1.097)	119881	17.5096	17.50
175	tert-Butyl ethyl ether	59	4.043	4.043	(0.840)	115438	17.5183	17.51
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	80101	384.439	384.43
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	436022	581.537	581.53
140	1,3-Butadiene	54	1.396	1.396	(0.290)	21671	20.3359	20.33
182	Epichlorohydrin	57	6.630	6.626	(1.195)	3520	18.8454	18.84
M 94	1,2-Dichloroethylene (total)	96				88222	41.2160	41.21
M 95	Xylenes (total)	106				262250	72.9771	72.97
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	51503	16.2665	16.26
130	Ethyl Acetate	43	4.335	4.335	(0.901)	49341	19.6544	19.65
131	Methyl Acrylate	55	4.365	4.362	(0.907)	51172	17.7063	17.70
189	n-Butyl acetate	43	7.702	7.702	(0.941)	82326	19.8375	19.83
134	Cyclohexanone	55	9.152	9.153	(0.900)	35472	279.103	279.10(a)
185	Isoprene	39	2.146	2.146	(0.446)	9258	18.5953	18.59
188	Isopropyl acetate	43	5.280	5.280	(0.952)	133778	19.1745	19.17
150	Allyl alcohol	57	3.334	3.331	(0.693)	34722	321.601	321.60
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	133229	24.4587	24.45
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	18601	11.4636	11.46
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	102990	20.0350	20.03
163	Butyl methacrylate	41	9.647	9.647	(0.949)	48629	17.2802	17.28
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	32459	12.1353	12.13

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240517,b\U051810,D
Date : 18-MAY-2024 06:54
Client ID: HS24050989-08HSD
Sample Info: HS24050989-08HSD;HS24050989-08HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051810.D
Inj Date : 18-MAY-2024 06:54
InstruID : VOA9.i
LabSampID : HS24050989-08MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051829.D Page 1
Report Date: 06-Jun-2024 15:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051829.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-MAY-2024 13:44
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240517.b\8260C.m
Meth Date : 06-Jun-2024 15:19 VOA9.i Quant Type: ISTD
Cal Date : 16-MAY-2024 12:40 Cal File: U051603.D
Als bottle: 60 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_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	4.812	4.812	(1.000)	275063	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	68710	50.0000	46.59
3	Chloromethane	50	1.292	1.292	(0.268)	239720	50.0000	43.78
4	Propionitrile	54	4.335	4.335	(0.901)	157266	500.000	462.41
5	Vinyl Chloride	62	1.374	1.374	(0.286)	108738	50.0000	49.68
6	Bromomethane	94	1.603	1.603	(0.333)	40045	50.0000	54.77
7	Chloroethane	64	1.689	1.689	(0.351)	75177	50.0000	47.14
8	Trichlorofluoromethane	101	1.888	1.888	(0.392)	125387	50.0000	48.04
9	Acrolein	56	2.259	2.259	(0.469)	10615	100.000	130.91
10	Acetone	43	2.409	2.409	(0.501)	87108	100.000	106.49
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	76347	50.0000	49.17
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	303320	1000.00	872.57
13	Acetonitrile	39	2.667	2.667	(0.554)	105205	500.000	469.53
14	Allyl Chloride	41	2.667	2.667	(0.554)	263041	50.0000	47.09
15	Iodomethane	142	2.461	2.461	(0.512)	16296	100.000	88.61
16	Acrylonitrile	53	3.065	3.065	(0.637)	77785	100.000	95.33
17	Methylene Chloride	84	2.787	2.787	(0.579)	97736	50.0000	45.99
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	254909	50.0000	44.95
19	Carbon Disulfide	76	2.514	2.514	(0.522)	444724	100.000	94.21
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	83938	50.0000	45.47

21 Vinyl Acetate	43	4.339	4.339 (0.902)	119465	100.000	99.61
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	163654	50.0000	48.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.264	4.264	(0.886)	116333	100.000	94.34
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	64760	50.0000	46.94(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	75889	50.0000	29.02
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	103467	50.0000	46.45
	28 Chloroform	83	4.568	4.568	(0.949)	167842	50.0000	48.44
	29 Bromochloromethane	128	4.467	4.467	(0.928)	49759	50.0000	45.33
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	100161	50.0000	55.72
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	129206	50.0000	46.67
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	123283	50.0000	50.76
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	134358	50.0000	49.56
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	103423	50.0000	47.41
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	119350	50.0000	55.21
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	398406	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	392738	50.0000	48.76
	38 Trichloroethene	130	5.786	5.786	(1.043)	98901	50.0000	50.62
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	116077	50.0000	49.30
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	37000	50.0000	44.96
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	120233	100.000	91.49
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	104732	50.0000	48.22
	43 2-Nitropropane	43	6.573	6.573	(1.366)	76560	50.0000	48.82
	44 Dibromomethane	93	6.116	6.116	(1.102)	61736	50.0000	47.68
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	247282	100.000	95.99
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	138963	50.0000	45.57
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	358037	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	398091	50.0000	58.61
	49 Ethyl Methacrylate	69	7.214	7.214	(1.300)	123557	50.0000	45.43
	50 Toluene	91	6.978	6.978	(0.853)	404828	50.0000	47.83
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	112608	50.0000	44.61
	52 2-Hexanone	43	7.589	7.589	(0.928)	164511	100.000	93.12
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	78713	50.0000	48.63
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	172770	50.0000	48.22
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	92017	50.0000	44.84
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	75794	50.0000	46.49
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	93749	50.0000	49.65
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	79755	50.0000	44.65
	59 Chlorobenzene	112	8.208	8.208	(1.003)	257267	50.0000	46.43
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	88857	50.0000	48.99
	61 Ethylbenzene	106	8.305	8.305	(1.015)	131238	50.0000	49.02
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	327427	100.000	96.98
	63 o-Xylene	106	8.744	8.744	(1.069)	162812	50.0000	48.21
	64 Styrene	104	8.759	8.759	(1.071)	284061	50.0000	48.52
	66 Bromoform	173	8.916	8.916	(1.090)	58334	50.0000	42.75
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	404322	50.0000	50.23
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	131262	50.0000	46.30
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	147323	50.0000	56.33
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	191833	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	133913	50.0000	44.32
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	25234	50.0000	37.40
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	467628	50.0000	50.38
	74 Bromobenzene	156	9.314	9.314	(0.916)	113303	50.0000	48.25
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	335004	50.0000	48.16
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	286404	50.0000	47.57

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	334229	50.0000	48.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	284790	50.0000	51.28

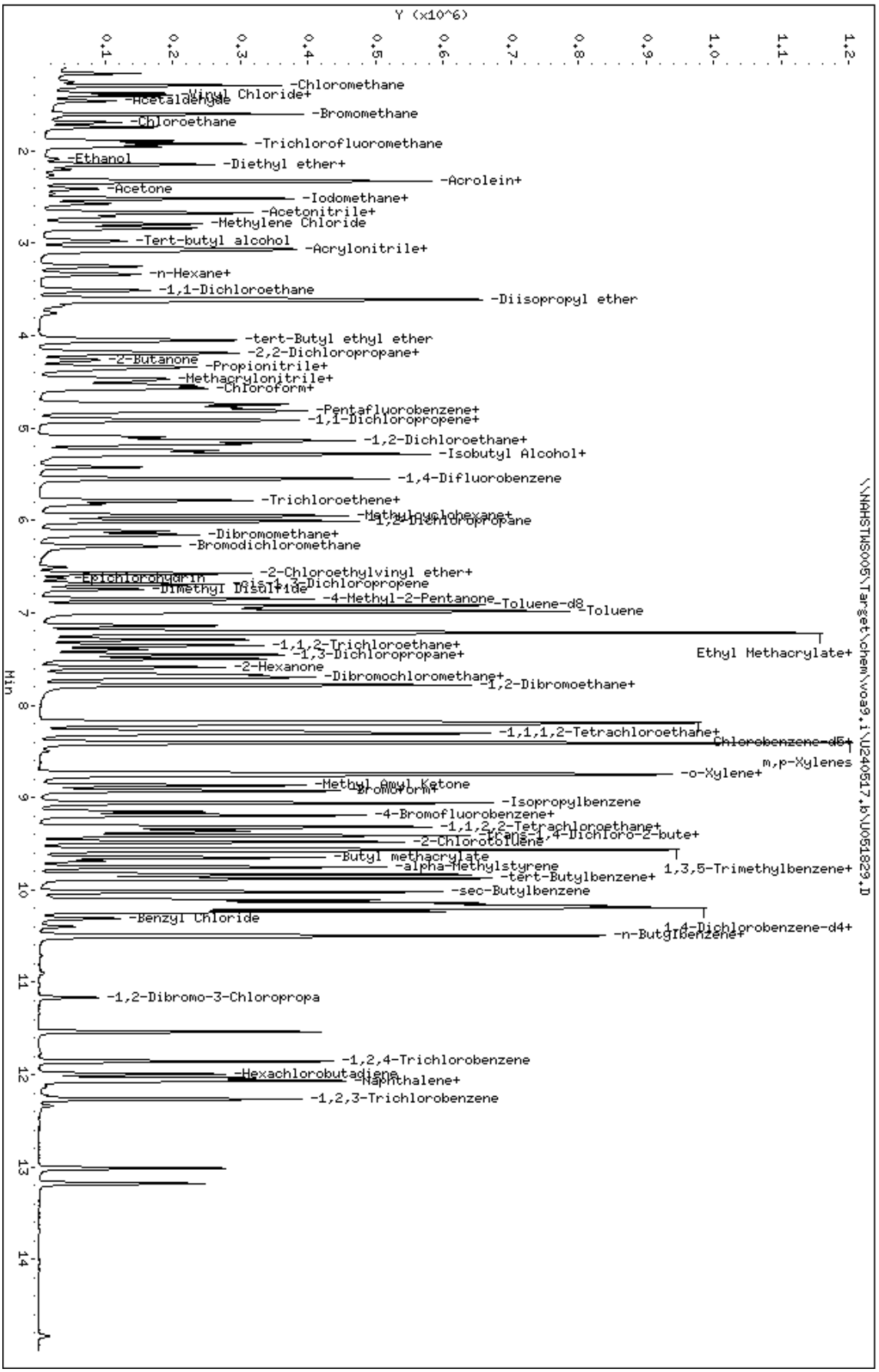
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	336409	50.0000	46.58
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	379648	50.0000	50.38
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	336878	50.0000	48.95
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	204671	50.0000	45.47
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	204671	50.0000	45.47
86	Benzyl Chloride	91	10.311	10.311	(1.260)	81119	50.0000	(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	286590	50.0000	43.63
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	194081	50.0000	46.51
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	17006	50.0000	40.55
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	129488	50.0000	44.94
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	50032	50.0000	43.82
92	Naphthalene	128	12.065	12.065	(1.187)	321853	50.0000	45.73
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	120174	50.0000	47.64
146	Methyl acetate	43	2.712	2.712	(0.564)	107364	50.0000	51.40
138	Freon TF	101	2.330	2.330	(0.484)	143511	50.0000	45.42
141	Cyclohexane	56	4.778	4.778	(0.993)	139553	50.0000	48.06
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	40017	100.000	98.53
147	Methylcyclohexane	55	5.944	5.944	(1.071)	239997	50.0000	50.51
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20319	1000.00	840.99
132	n-Butanol	56	5.824	5.824	(1.210)	54037	1000.00	859.34
136	n-Hexane	57	3.335	3.335	(0.693)	72975	50.0000	35.02
139	Diethyl ether	59	2.142	2.142	(0.445)	73261	50.0000	46.65
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	148200	1000.00	823.90
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	116131	1000.00	829.84
152	Amyl alcohol	42	7.398	7.398	(0.904)	57824	1000.00	909.13
156	Diisopropyl ether	45	3.619	3.619	(0.752)	321652	50.0000	48.22
162	Butyl acrylate	55	8.729	8.729	(1.067)	184811	50.0000	41.98
187	n-Amyl acetate	43	8.928	8.928	(1.091)	186843	50.0000	44.95
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	414200	50.0000	51.14
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	313453	50.0000	47.92
167	Ethanol	45	2.090	2.090	(0.434)	21367	1000.00	988.97
172	tert-Butyl formate	59	5.243	5.243	(1.090)	161546	100.000	79.98
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	225727	1000.00	918.29
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	300798	50.0000	46.18
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	290454	50.0000	46.33
176	tert-Amyl alcohol	59	5.243	5.243	(1.090)	161546	1000.00	814.96
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	650883	1000.00	923.80
140	1,3-Butadiene	54	1.400	1.400	(0.291)	48347	50.0000	47.35
182	Epichlorohydrin	57	6.630	6.630	(1.195)	28364	200.000	161.59
M 94	1,2-Dichloroethylene (total)	96				187405	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	142335	50.0000	47.87
130	Ethyl Acetate	43	4.339	4.339	(0.902)	119465	50.0000	50.02
131	Methyl Acrylate	55	4.365	4.365	(0.907)	125844	50.0000	45.77
189	n-Butyl acetate	43	7.702	7.702	(0.941)	178963	50.0000	45.71
134	Cyclohexanone	55	9.153	9.153	(0.900)	96709	1000.00	810.32
185	Isoprene	39	2.150	2.150	(0.447)	22155	50.0000	46.77
188	Isopropyl acetate	43	5.284	5.284	(0.952)	302966	50.0000	46.21
150	Allyl alcohol	57	3.335	3.335	(0.693)	72975	1000.00	700.56
194	Acetaldehyde	44	1.456	1.456	(0.303)	117748	200.000	328.93
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	223534	50.0000	43.49
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	58617	50.0000	31.13
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	239997	50.0000	49.07

163	Butyl methacrylate	41	9.647	9.647 (0.949)	107226	50.0000	40.57
159	Propylene oxide	43	2.199	2.199 (0.457)	18196	100.000	99.06

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)	100464	50.0000	40.86

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240517,b\U051829.D
Date : 18-MAY-2024 13:44
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240517.b\U051829.D
Inj Date : 18-MAY-2024 13:44
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

10450 Stancliff Rd. Suite 210
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alsglobal.com

WorkOrder: HS24051271

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

26-Jun-2024

HS24051271 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24051271

HS24051271 Longhorn GW Treatment Plant Weekly Samples Final REV_02

ALS WO# HS24051271

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June 24, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051271**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 4 sample(s) on May 22, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24051271

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051271-01	LH18/24-SP650_052124	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051271-02	LH18/24-SP650_041024	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051271-03	LH18/24-SP650_052124_BIX	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051271-04	LH18/24-SP650_052124_AIX	Water		21-May-2024 13:00	22-May-2024 10:15	☐

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24051271

Work Order Comments

• Revision I: This report was revised 06/11/24 to include the QC for ammonia.

Revision II: This report was revised 06/24/24 to include the analysis on the correct sample ID

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E350.3

Batch ID: R468803

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E415.1

Batch ID: R468617

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R467407

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS24051271

Sample ID: LH18/24-SP650_052124

Lab ID:HS24051271-01

Collection Date: 21-May-2024 13:00

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: HB
Nitrogen, Ammonia (As N)	**23**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	23-May-2024 10:30
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: HB
Phosphorus, Total Orthophosphate (As P)	**8.90**	a	**0.500**	**1.25**	**1.25**	**mg/L**	50	22-May-2024 13:57
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**16.9**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	05-Jun-2024 19:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24051271
Sample ID: LH18/24-SP650_052124_BIX
Lab ID:HS24051271-03
Collection Date: 21-May-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	**HS24051271**		**0**	**0**	**0**	**NA**	1	04-Jun-2024 15:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24051271
Sample ID: LH18/24-SP650_052124_AIX
Lab ID:HS24051271-04
Collection Date: 21-May-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	**HS24051271**		**0**	**0**	**0**	**NA**	1	04-Jun-2024 15:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24051271

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467407 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24051271-01	LH18/24-SP650_052124	21 May 2024 13:00			22 May 2024 13:57	50
Batch ID: R468438 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24051271-03	LH18/24-SP650_052124_BIX	21 May 2024 13:00			04 Jun 2024 15:44	1
HS24051271-04	LH18/24-SP650_052124_AIX	21 May 2024 13:00			04 Jun 2024 15:44	1
Batch ID: R468617 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24051271-01	LH18/24-SP650_052124	21 May 2024 13:00			05 Jun 2024 19:42	10
Batch ID: R468803 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24051271-01	LH18/24-SP650_052124	21 May 2024 13:00			23 May 2024 10:30	1

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24051271

QC BATCH REPORT

Batch ID: R467407 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R467407** Units: **mg/L** Analysis Date: **22-May-2024 12:33**
Client ID: Run ID: **UV-2450_467407** SeqNo: **8023942** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0250	0.0250								U

LCS Sample ID: **LCS-R467407** Units: **mg/L** Analysis Date: **22-May-2024 12:33**
Client ID: Run ID: **UV-2450_467407** SeqNo: **8023941** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.254	0.0250	0.25	0	102	80 - 120				

MS Sample ID: **HS24051252-01MS** Units: **mg/L** Analysis Date: **22-May-2024 12:33**
Client ID: Run ID: **UV-2450_467407** SeqNo: **8023944** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.269	0.0250	0.25	0.025	97.6	80 - 120				

MSD Sample ID: **HS24051252-01MSD** Units: **mg/L** Analysis Date: **22-May-2024 12:33**
Client ID: Run ID: **UV-2450_467407** SeqNo: **8023943** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.281	0.0250	0.25	0.025	102	80 - 120	0.269	4.36	20	

The following samples were analyzed in this batch: HS24051271-01 HS24051271-02

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24051271

QC BATCH REPORT

Batch ID: R468617 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 19:05**
Client ID: Run ID: **TOC_05_468617** SeqNo: **8049973** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 19:18**
Client ID: Run ID: **TOC_05_468617** SeqNo: **8049974** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.736	1.00	10	0	97.4	85 - 115				

LCSD Sample ID: **LCSD-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 19:30**
Client ID: Run ID: **TOC_05_468617** SeqNo: **8049975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.789	1.00	10	0	97.9	85 - 115	9.736	0.543	20	

MS Sample ID: **HS24051885-01MS** Units: **mg/L** Analysis Date: **05-Jun-2024 20:06**
Client ID: Run ID: **TOC_05_468617** SeqNo: **8049978** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.65	1.00	10	3.152	85.0	80 - 120				

The following samples were analyzed in this batch: HS24051271-01

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24051271

QC BATCH REPORT

Batch ID: R468803 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R468803** Units: **mg/L** Analysis Date: **23-May-2024 10:30**
Client ID: Run ID: **WetChem_HS_468803** SeqNo: **8053708** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.20	0.20								U

LCS Sample ID: **LCS-R468803** Units: **mg/L** Analysis Date: **23-May-2024 10:30**
Client ID: Run ID: **WetChem_HS_468803** SeqNo: **8053707** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	9.992	0.20	10	0	99.9	80 - 120				

MS Sample ID: **HS24051218-01MS** Units: **mg/L** Analysis Date: **23-May-2024 10:30**
Client ID: Run ID: **WetChem_HS_468803** SeqNo: **8053710** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.08	0.20	10	0.816	92.7	80 - 120				

MSD Sample ID: **HS24051218-01MSD** Units: **mg/L** Analysis Date: **23-May-2024 10:30**
Client ID: Run ID: **WetChem_HS_468803** SeqNo: **8053709** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.12	0.20	10	0.816	93.1	80 - 120	10.08	0.366	20	

The following samples were analyzed in this batch: HS24051271-01

ALS Houston, US Date: 24-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24051271**

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

ALS Houston, US Date: 24-Jun-24

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-2024
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

ALS Houston, US Date: 24-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051271 **Date/Time Received:** **22-May-2024 10:15**

Client Name: Bhate Environmental **Received by:** **Jacob Coronado**

Completed By: */S/ Monica Smith* (eSignature) 22-May-2024 12:52 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **water** Carrier name: **FedEx**

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:none
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):	2.5 uc/2.6 c	IR31	
Cooler(s)/Kit(s):	Blue		
Date/Time sample(s) sent to storage:	05/22/2024 1252		
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:

01313764

HS24051271

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Weekly Samples

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guip

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_052124	Water	05/21/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_052124	Water	05/21/24 / 13:00		1			X								NONE	
LH18/24–SP650_052124_BIX	Water	05/21/24 / 13:00		1				X							NONE	
LH18/24- SP650_052124_AIX	Water	05/21/24 / 13:00		1				X							NONE	

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	05/21/24	13:30									

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

Rec'd 2.5

(Word) S:\Forms\Chain of Custody - BiWeekly

01313765

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

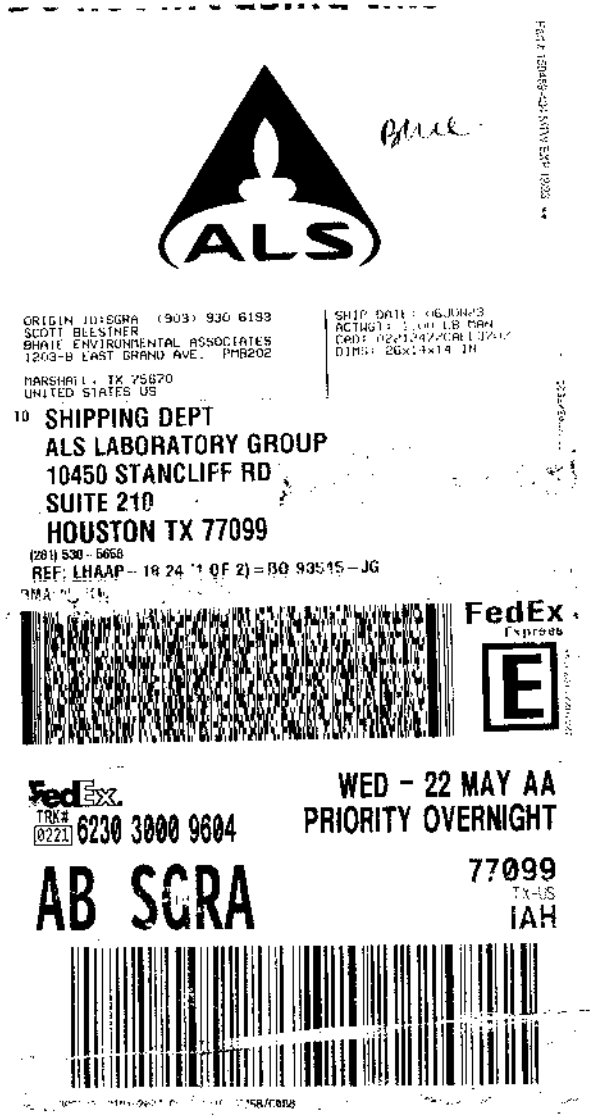
Bmc

CUSTODY SEAL

Date: 5/21/24 Time: 1330
Name: Scott Blessner
Company: Shaw

Seal Broken By: BMC
Date: 05/22/24

Bmc MAY 22 2024



June 04, 2024 Service Request No:E2400542

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051271

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400542.**

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

H Kelany

Hussam Kelany
Project Manager

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400542
Project:	HS24051271	**Date Received:**	05/22/24
Sample Matrix:	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

Two samples were received for analysis at ALS Environmental in Houston on 05/22/24.

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:

EQ2400252: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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.

Client: ALS Environmental - US **Service Request:**E2400542
Project: HS24051271

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400542-001	LH18/24-SP650_052124_BIX	5/21/2024	1300
E2400542-002	LH18/24-SP650_052124_AIX	5/21/2024	1300

Service Request Summary

Folder #: **E2400542**
Client Name: ALS Environmental - US
Project Name: HS24051271
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: MONICA.SMITH
Date Received: 05/22/24
Internal Due Date: 6/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400542-001	LH18/24-SP650_052124_BIX	Water	05/21/24 1300	**IV**
E2400542-002	LH18/24-SP650_052124_AIX	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #:	**E2400542**
Client Name:	ALS Environmental - US
Project Name:	HS24051271
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:	MONICA.SMITH
Date Received:	05/22/24
Internal Due Date:	6/3/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 8D

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.

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.

ALS Laboratory Group

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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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
Maine Department of Health and Human Services	2022017	6/5/2024
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

Chain of Custody

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

E2400542 5
ALS Laboratory Group
HS24051271

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25754**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051271
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051271-03**	**LH18/24-SP650_052124_BIX**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			23 May 2024
2.	**HS24051271-04**	**LH18/24-SP650_052124_AIX**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			23 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5-22-24 1015

Cooler ID(s): _____ Temperature(s): _____

E2400542 5
ALS Laboratory Group
HS24051271

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Sample Receipt Checklist

Work Order ID: HS24051271 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 12:52 Monica Smith **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: water **Carrier name:** FedEx

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): none	
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):	2.5 uc/2.6 c		IR31	
Cooler Information:	1 Cooler(s), Blue			
Date/Time sample(s) sent to storage:	05/22/2024 1252			
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: _____

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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

Preparation Information Benchsheet

Prep Run#: 439095 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/28/24 08:20

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400501-001	GW-MW-71D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
2	E2400501-002	GW-MW-48-20240515-01	.01	6850/ClO4			Ground Water	10mL	
3	E2400502-001	GW-359-20240515-01	.01	6850/ClO4			Ground Water	10mL	
4	E2400503-001	GW-MW-63D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
5	E2400504-001	GW-MW-50D2-20240514-01	.01	6850/ClO4			Ground Water	10mL	
6	E2400504-002	GW-MW-76D3-20240514-01	.01	6850/ClO4			Ground Water	10mL	
7	E2400504-003	GW-MW-84D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
8	E2400504-004	GW-MW-85D3-20240515-01	.01	6850/ClO4			Ground Water	10mL	
9	E2400505-001	GW-170-20240515-01	.01	6850/ClO4			Ground Water	10mL	
10	E2400506-001	GW-MW-83D3-20240515-01	.01	6850/ClO4			Ground Water	10mL	
11	E2400506-002	GW-DUP-01-20240515-01	.01	6850/ClO4			Ground Water	10mL	
12	E2400519-001	GW-MW-64-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400522-001	GW-MW-69-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400523-001	GW-MW-88D3-20240517-01	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400524-001	GW-280A-20240516-05	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400525-001	GW-MW-61-DW-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400526-001	GW-MW-55D-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2400527-001	GW-MW-57D2-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2400542-001	LH18/24-SP650_052124_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400542-002	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400252-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400252-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400252-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400252-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400252-04 20.00µL EQ2400252-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400252-02 100.00µL EQ2400252-02 100.00µL EQ2400252-03 100.00µL EQ2400252-03 100.00µL EQ2400252-04 100.00µL EQ2400252-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 439095 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/28/24 08:20

E2400542-001	100.00µL	E2400542-002	100.00µL	EQ2400252-01	100.00µL	EQ2400252-01	100.00µL	EQ2400252-02	100.00µL	EQ2400252-02	100.00µL
EQ2400252-03	100.00µL	EQ2400252-03	100.00µL	EQ2400252-04	100.00µL	EQ2400252-04	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/28/24 08:20
Finished: 5/28/24 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
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_BIX	**Units:**	µg/L
Lab Code:	E2400542-001	**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	**9.41**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:28	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_AIX	**Units:**	µg/L
Lab Code:	E2400542-002	**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	**0.150**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:23	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400252-01	**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	5/28/24	5/29/24 14:01	439095	842355	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Sample Matrix: Water

Service Request: E2400542
Date Analyzed: 5/29/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439095

	Lab Control Sample EQ2400252-02			Duplicate Lab Control Sample EQ2400252-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.108	0.100	108	0.0920	0.100	92	84 - 119	16 *	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400252-02	**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	**0.108**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:06	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400252-03	**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	**0.0920**	J	0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:12	439095	842355	

HS24051271 Wetchem NIT-AMM_W- E350.3 - ISE

ALS WO# HS24051271

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ISE_W_350.3 / ISE_W

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB			Date: 5-23-24
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F			
Probe Calibration Date: 5-23-24	Cal Std ID: 325104008		Probe ID: NH_3 -10

Std Level		mV	Conc., mg/L:
STD 1 (mg/L): 0.2		139.3	0.20
STD 2 (mg/L): 1		101.0	1.00
STD 3 (mg/L): 5		62.2	5.00

Sodium Thiosulfate ID:		
Std Level	mV	Conc., mg/L:
STD 4 (mg/L): 10	44.9	10.00
STD 5 (mg/L): 50	5.9	50.00

LSC / MS Spike ID:	311202404
ICV Cal STD ID:	300107908
DPD Reagent ID:	310608715
ICAL Date & Slope:	94.6% -55.8mV

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/−)	Comments
CCV		50	50		10.073			
CCB					0.006			
MBLK					0.005			
LCS					9.992			
1218-01					0.816		−	
-01 MS					10.085		−	
-01 MSD					10.122		−	
-02					0.908		+	
1130-01					0.559		−	
1271-01					22.905		−	
CCV					10.315			
CCB					0.006			
1218-02					1.076		+	
-02 MS					11.892		+	
-02 MSD					11.953		+	
CCV					10.167			
CCB					0.004			

Batch ID: 468803 467566/467570	Reported By HB	Reviewed By:

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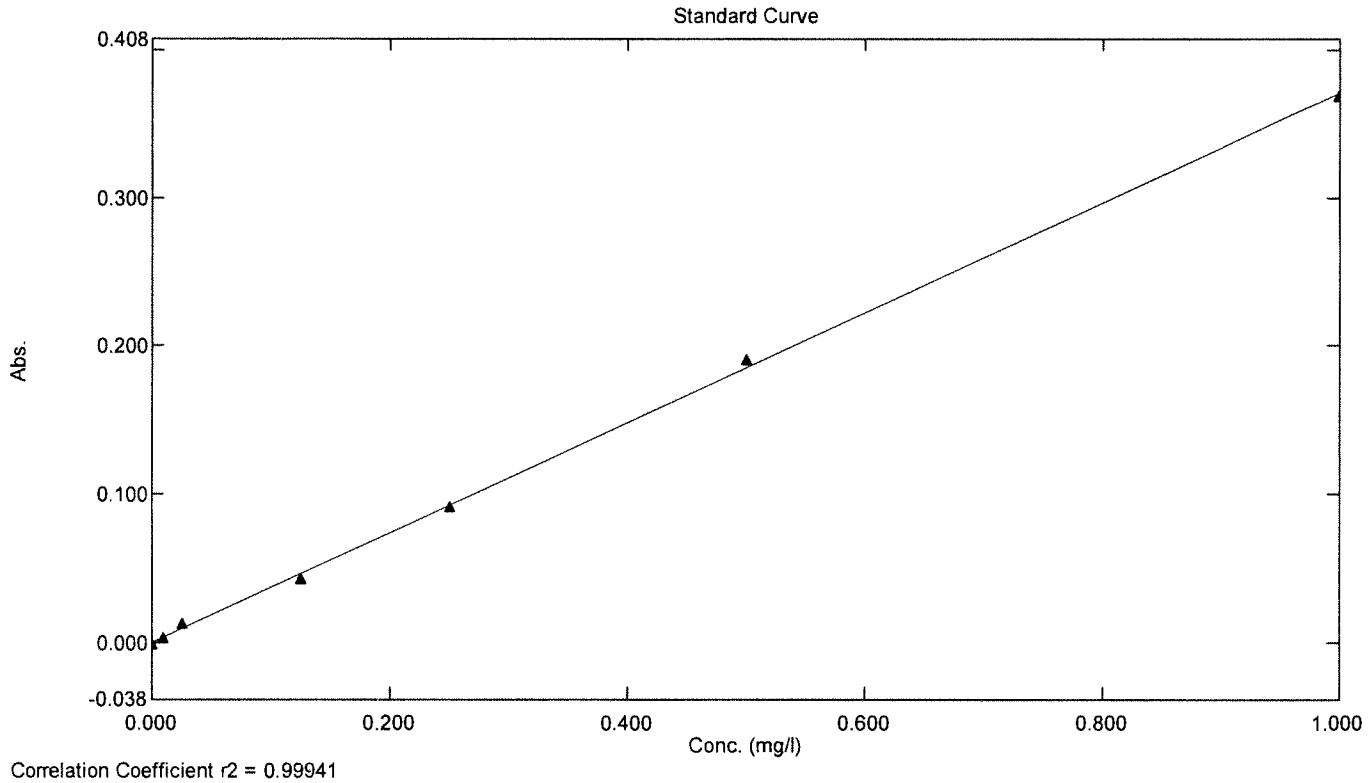
HS24051271 Wetchem P-ORTHO

ALS WO# HS24051271

Standard Table Report

06/26/2024 01:30:44 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05222024P_ORTHO .pho



Correlation Coefficient r2 = 0.99941

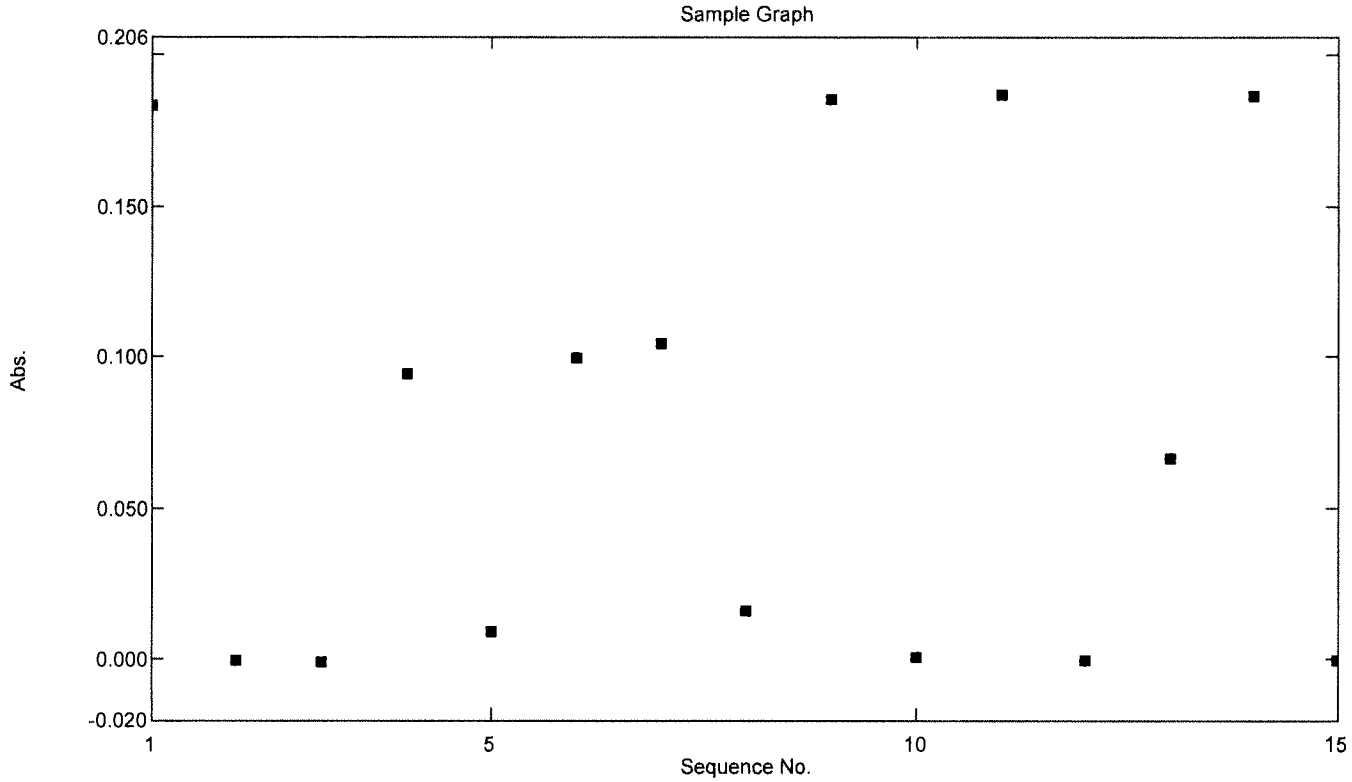
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.001	1.000	
2	STD2	Standard		0.010	0.003	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.043	1.000	
5	STD5	Standard		0.250	0.091	1.000	
6	STD6	Standard		0.500	0.191	1.000	
7	STD7	Standard		1.000	0.369	1.000	06/06/2024
8							

Sample Table Report

06/26/2024 12:47:53 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05222024P_ORTHO .pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	05/22/2024	12:33:32 PM	0.494	0.183	325104108 WC-19
2	CCB	05/22/2024	12:33:51 PM	-0.001	-0.000	325101201
3	MBLK	05/22/2024	12:34:17 PM	-0.003	-0.001	325103801
4	LCS	05/22/2024	12:35:21 PM	0.254	0.094	325104201 WC-19
5	HS24051252.01	05/22/2024	12:36:19 PM	0.025	0.009	
6	HS24051252.01MS	05/22/2024	12:39:11 PM	0.269	0.100	
7	HS24051252.01MSD	05/22/2024	12:39:27 PM	0.281	0.104	
8	HS24051252.04	05/22/2024	12:40:32 PM	0.044	0.016	
9	CCV2	05/22/2024	12:42:20 PM	0.500	0.185	
10	CCB2	05/22/2024	12:42:41 PM	0.002	0.001	
11	CCV3	05/22/2024	01:56:24 PM	0.504	0.187	
12	CCB3	05/22/2024	01:56:36 PM	-0.001	-0.000	
13	HS24051271.02	05/22/2024	01:57:35 PM	0.178	0.066	DF:50X
14	CCV4	05/22/2024	01:58:14 PM	0.502	0.186	
15	CCB4	05/22/2024	01:58:24 PM	-0.001	-0.000	
16						

HS24051271 Wetchem TOC_W ICAL TABLE

ALS WO# HS24051271

C:\TOC-L\Data\2024_04_25_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

C:\TOC-L\Data\2024_04_25_001.tlx

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24051271 Wetchem TOC_W ICAL

ALS WO# HS24051271

TOC-Control L Report

2024_04_25_001.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

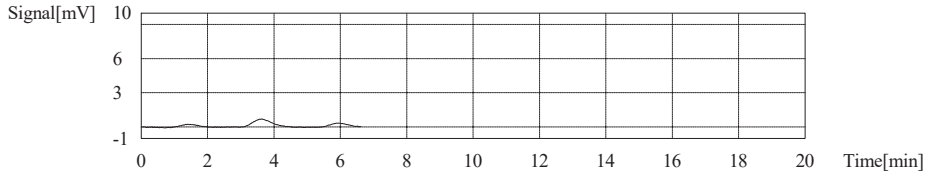
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

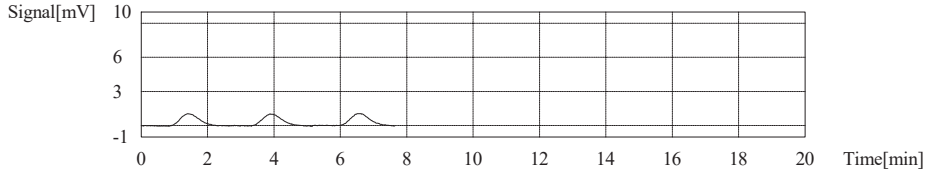
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

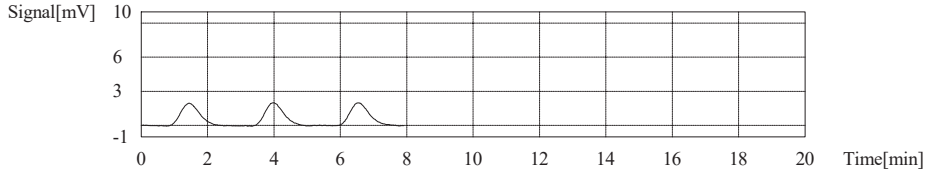
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



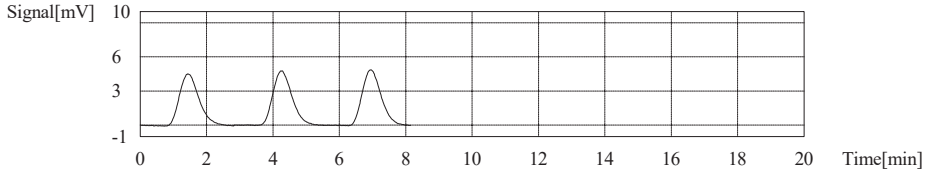
TOC-Control L Report

2024_04_25_001.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

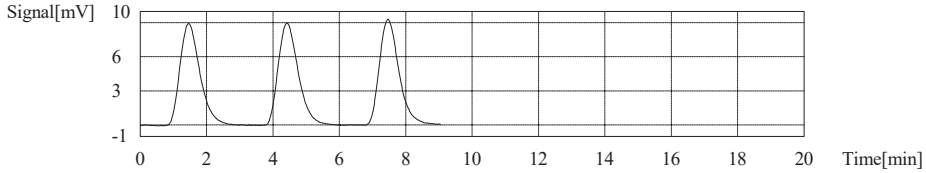
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

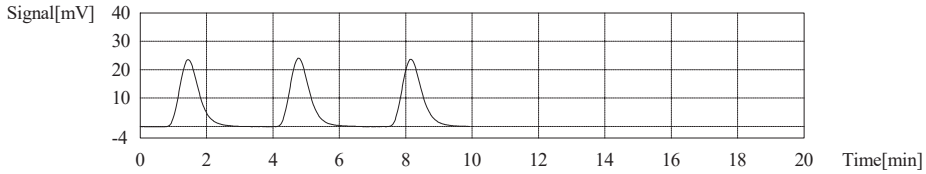
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

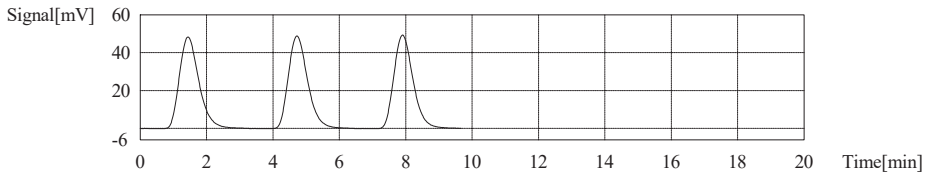
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

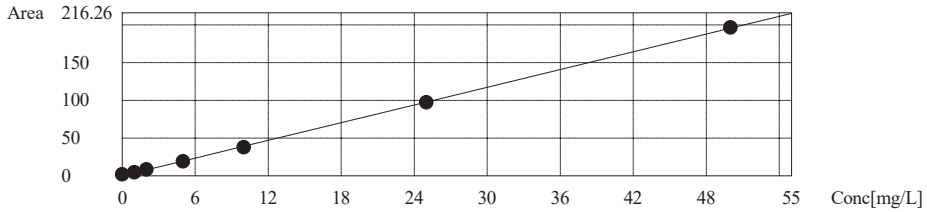
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



TOC-Control L Report

2024_04_25_001.tlx

Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

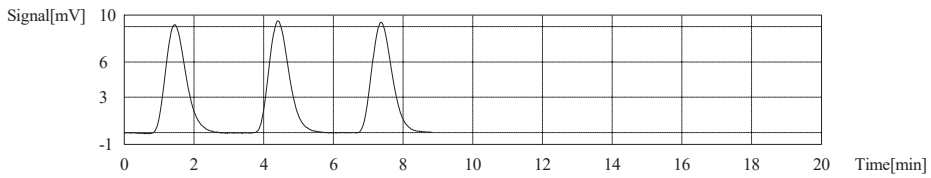
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

1. Det

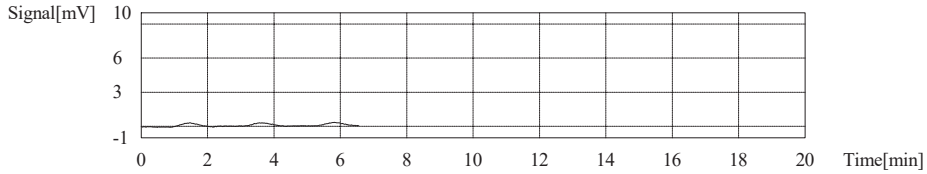
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

2024_04_25_001.tlx

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24051271 Wetchem TOC_W INJECT TABLE

ALS WO# HS24051271

C:\TOC-L\Data\2024_06_05_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06053mg/	
3	Unknown	NPOC	MBLK-06052024		04.25.2024.	1.000	NPOC:0.06071mg/	
4	Unknown	NPOC	LCS-06052024	3100607917	04.25.2024.	1.000	NPOC:9.736mg/L	
5	Unknown	NPOC	LCSD-06052024		04.25.2024.	1.000	NPOC:9.789mg/L	
6	Unknown	NPOC	HS24051271-01DF10		04.25.2024.	1.000	NPOC:1.686mg/L	
7	Unknown	NPOC	HS24051885-01		04.25.2024.	1.000	NPOC:3.152mg/L	
8	Unknown	NPOC	HS24051885-01MS		04.25.2024.	1.000	NPOC:11.65mg/L	
9	Unknown	NPOC	HS24051885-02		04.25.2024.	1.000	NPOC:3.736mg/L	
10	Unknown	NPOC	HS24051885-03		04.25.2024.	1.000	NPOC:2.591mg/L	
11	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.30mg/L	
12	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1230mg/L	
13	Unknown	NPOC	HS24051885-04DF10		04.25.2024.	1.000	NPOC:1.414mg/L	
14	Unknown	NPOC	HS24051885-05DF10		04.25.2024.	1.000	NPOC:0.7575mg/L	
15	Unknown	NPOC	HS24051885-06		04.25.2024.	1.000	NPOC:24.21mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1071mg/L	
18	Unknown	NPOC	MBLK-06052024		04.25.2024.	1.000	NPOC:0.01916mg/	
19	Unknown	NPOC	LCS-06052024	3100607917	04.25.2024.	1.000	NPOC:9.882mg/L	
20	Unknown	NPOC	LCSD-06052024		04.25.2024.	1.000	NPOC:9.647mg/L	
21	Unknown	NPOC	HS24051300-05		04.25.2024.	1.000	NPOC:5.137mg/L	
22	Unknown	NPOC	HS24051300-05MS		04.25.2024.	1.000	NPOC:10.56mg/L	
23	Unknown	NPOC	HS24051300-06		04.25.2024.	1.000	NPOC:7.747mg/L	
24	Unknown	NPOC	HS24051300-07		04.25.2024.	1.000	NPOC:4.761mg/L	
25	Unknown	NPOC	HS24051304-01		04.25.2024.	1.000	NPOC:1.849mg/L	
26	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.97mg/L	
27	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1384mg/L	
28	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.09mg/L	
29	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.06278mg/	
30	Unknown	NPOC	MBLK-06052024		TOC_W 906	1.000	NPOC:0.07082mg/	
31	Unknown	NPOC	LCS-06052024	3100607917	TOC_W 906	1.000	NPOC:9.696mg/L	
32	Unknown	NPOC	LCSD-06052024		TOC_W 906	1.000	NPOC:9.680mg/L	
33	Unknown	NPOC	HS24051292-01		TOC_W 906	1.000	NPOC:9.834mg/L	
34	Unknown	NPOC	HS24051292-02		TOC_W 906	1.000	NPOC:2.979mg/L	
35	Unknown	NPOC	HS24051292-03		TOC_W 906	1.000	NPOC:3.132mg/L	
36	Unknown	NPOC	HS24051292-03MS		TOC_W 906	1.000	NPOC:11.22mg/L	
37	Unknown	NPOC	HS24051292-04		TOC_W 906	1.000	NPOC:3.615mg/L	
38	Unknown	NPOC	HS24051292-05		TOC_W 906	1.000	NPOC:3.361mg/L	
39	Unknown	NPOC	HS24051292-06		TOC_W 906	1.000	NPOC:2.397mg/L	
40	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.99mg/L	
41	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2046mg/L	
42	Unknown	NPOC	HS24051292-07		TOC_W 906	1.000	NPOC:8.964mg/L	
43	Unknown	NPOC	HS24051292-08		TOC_W 906	1.000	NPOC:5.066mg/L	
44	Unknown	NPOC	HS24051411-01		TOC_W 906	1.000	NPOC:1.027mg/L	
45	Unknown	NPOC	HS24051411-02		TOC_W 906	1.000	NPOC:1.245mg/L	
46	Unknown	NPOC	HS24051895-01		TOC_W 906	1.000	NPOC:670.9mg/L	
47	Unknown	NPOC	HS24051895-02		TOC_W 906	1.000	NPOC:22.22mg/L	
48	Unknown	NPOC	HS24051895-03		TOC_W 906	1.000	NPOC:81.83mg/L	
49	Unknown	NPOC	HS24051895-04		TOC_W 906	1.000	NPOC:8.377mg/L	
50	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.98mg/L	
51	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2075mg/L	
52	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.22mg/L	
53	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.07007mg/	

C:\TOC-L\Data\2024_06_05_002.tlx

	Status	Date / Time	Vial
1	Completed	6/5/2024 6:46:12 PM	1
2	Completed	6/5/2024 6:55:28 PM	2
3	Completed	6/5/2024 7:05:31 PM	3
4	Completed	6/5/2024 7:18:37 PM	4
5	Completed	6/5/2024 7:30:52 PM	5
6	Completed	6/5/2024 7:42:09 PM	6
7	Completed	6/5/2024 7:54:11 PM	7
8	Completed	6/5/2024 8:06:56 PM	8
9	Completed	6/5/2024 8:18:42 PM	9
10	Completed	6/5/2024 8:29:59 PM	10
11	Completed	6/5/2024 9:12:29 PM	1
12	Completed	6/5/2024 9:22:12 PM	2
13	Completed	6/5/2024 9:43:47 PM	11
14	Completed	6/5/2024 9:54:39 PM	12
15	Completed	6/5/2024 10:07:15 PM	13
16	Completed	6/5/2024 10:50:09 PM	1
17	Completed	6/5/2024 10:59:43 PM	2
18	Completed	6/5/2024 11:09:09 PM	3
19	Completed	6/5/2024 11:22:22 PM	4
20	Completed	6/5/2024 11:34:29 PM	5
21	Completed	6/5/2024 11:56:48 PM	14
22	Completed	6/6/2024 12:09:01 AM	15
23	Completed	6/6/2024 12:21:06 AM	16
24	Completed	6/6/2024 12:32:50 AM	17
25	Completed	6/6/2024 12:43:41 AM	18
26	Completed	6/6/2024 1:26:37 AM	19
27	Completed	6/6/2024 1:36:23 AM	20
28	Completed	6/6/2024 2:03:15 AM	19
29	Completed	6/6/2024 2:14:55 AM	20
30	Completed	6/6/2024 2:37:09 AM	3
31	Completed	6/6/2024 2:52:59 AM	4
32	Completed	6/6/2024 3:09:00 AM	5
33	Completed	6/6/2024 3:35:11 AM	21
34	Completed	6/6/2024 3:49:57 AM	22
35	Completed	6/6/2024 4:05:09 AM	23
36	Completed	6/6/2024 4:20:52 AM	24
37	Completed	6/6/2024 4:35:52 AM	25
38	Completed	6/6/2024 4:50:31 AM	26
39	Completed	6/6/2024 5:15:17 AM	27
40	Completed	6/6/2024 6:04:43 AM	28
41	Completed	6/6/2024 6:17:22 AM	29
42	Completed	6/6/2024 6:32:54 AM	30
43	Completed	6/6/2024 6:48:17 AM	31
44	Completed	6/6/2024 7:02:18 AM	32
45	Completed	6/6/2024 7:16:12 AM	33
46	Completed	6/6/2024 7:34:40 AM	34
47	Completed	6/6/2024 7:52:28 AM	35
48	Completed	6/6/2024 8:08:42 AM	36
49	Completed	6/6/2024 8:25:03 AM	37
50	Completed	6/6/2024 9:14:16 AM	28
51	Completed	6/6/2024 9:27:03 AM	29
52	Completed	6/6/2024 10:56:36 AM	38
53	Completed	6/6/2024 11:08:47 AM	39

C:\TOC-L\Data\2024_06_05_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
54	Unknown	NPOC	HS24051895-01DF50		TOC_W 906	1.000	NPOC:11.79mg/L	
55	Unknown	NPOC	HS24051895-02		TOC_W 906	1.000	NPOC:20.62mg/L	
56	Unknown	NPOC	HS24051895-03DF10		TOC_W 906	1.000	NPOC:8.580mg/L	
57	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.14mg/L	
58	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1254mg/L	

	Status	Date / Time	Vial
54	Completed	6/6/2024 11:24:37 AM	40
55	Completed	6/6/2024 11:42:55 AM	41
56	Completed	6/6/2024 11:58:28 AM	42
57	Completed	6/6/2024 12:25:19 PM	38
58	Completed	6/6/2024 12:37:59 PM	39

HS24051271 Wetchem TOC_W INJECT

ALS WO# HS24051271

TOC-Control L Report

2024_06_05_002.tlx

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

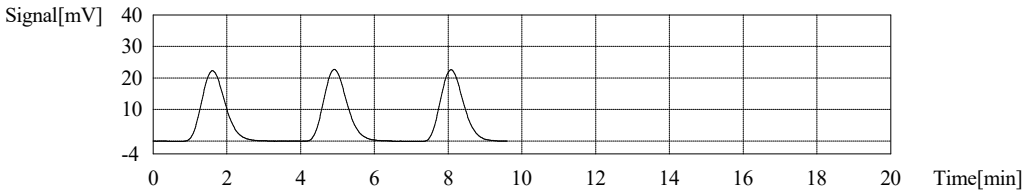
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.26	25.08mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:38:44 PM
2	98.98	25.27mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:42:30 PM
3	98.23	25.08mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:46:12 PM

Mean Area 98.49
Mean Conc. 25.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06053mg/L

1. Det

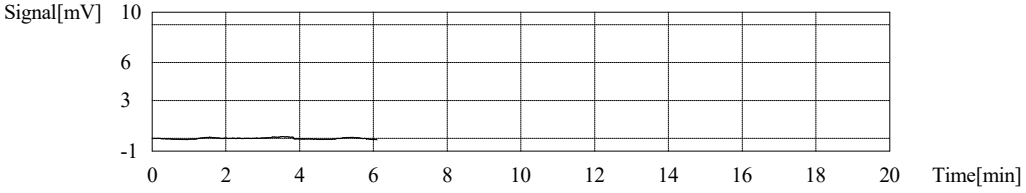
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3038	0.07755mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:50:08 PM
2	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:52:37 PM
3	0.4076	0.1040mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 6:55:28 PM

TOC-Control L Report

2024_06_05_002.tlx

Mean Area 0.2371
Mean Conc. 0.06053mg/L



Sample

Sample Name: MBLK-06052024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

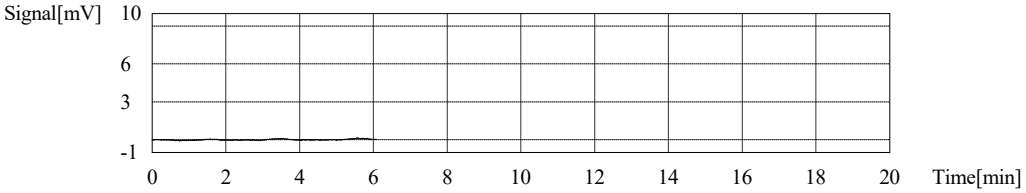
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06071mg/L

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		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:00:10 PM
2	0.4469	0.1141mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:02:54 PM
3	0.2666	0.06806mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:05:31 PM

Mean Area 0.2378
Mean Conc. 0.06071mg/L



Sample

Sample Name: LCS-06052024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.736mg/L

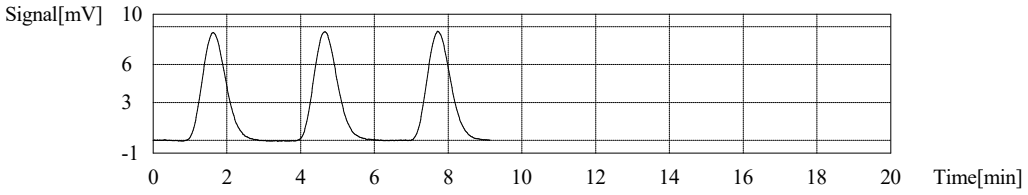
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.12	9.731mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:11:21 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:15:00 PM
3	38.07	9.718mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:18:37 PM

TOC-Control L Report

Mean Area 38.14
Mean Conc. 9.736mg/L



Sample

Sample Name: LCSD-06052024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

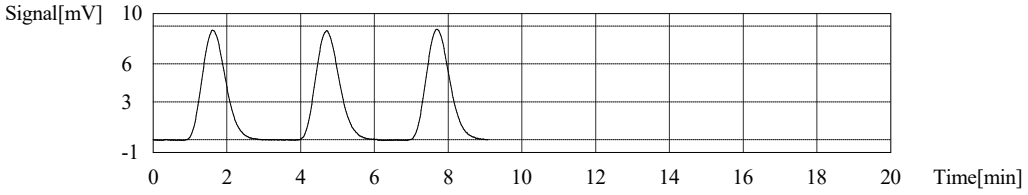
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.789mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.33	9.785mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:23:43 PM
2	38.07	9.718mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:27:17 PM
3	38.64	9.864mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:30:52 PM

Mean Area 38.35
Mean Conc. 9.789mg/L



Sample

Sample Name: HS24051271-01DF10
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.686mg/L

1. Det

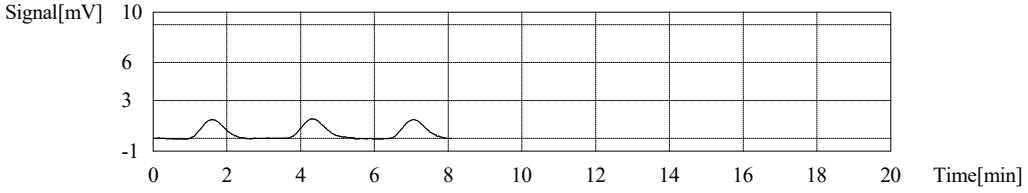
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.630	1.692mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:35:36 PM
2	6.671	1.703mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:38:55 PM
3	6.515	1.663mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:42:09 PM

TOC-Control L Report

2024_06_05_002.tlx

Mean Area 6.605
Mean Conc. 1.686mg/L



Sample

Sample Name: HS24051885-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

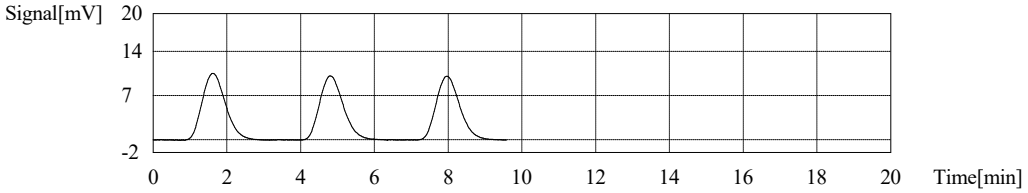
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.65mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.70	11.92mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 7:59:23 PM
2	45.25	11.55mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 8:03:07 PM
3	45.01	11.49mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 8:06:56 PM

Mean Area 45.65
Mean Conc. 11.65mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.30mg/L

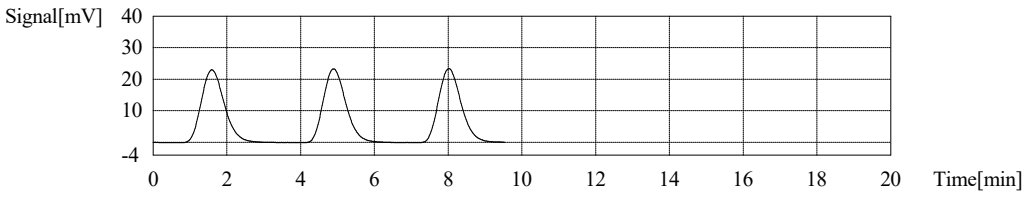
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.75	25.46mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:05:07 PM
2	98.65	25.18mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:08:49 PM
3	98.97	25.26mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:12:29 PM

TOC-Control L Report

Mean Area 99.12
Mean Conc. 25.30mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

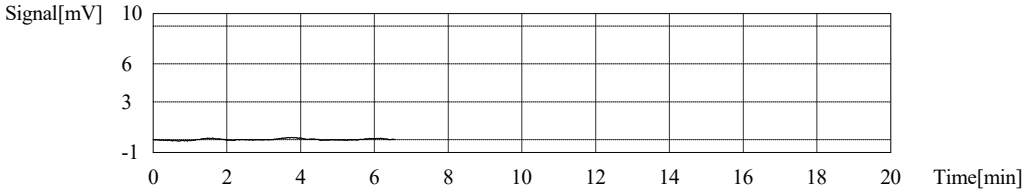
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1230mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5513	0.1407mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:16:41 PM
2	0.6314	0.1612mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:19:33 PM
3	0.2629	0.06711mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 9:22:12 PM

Mean Area 0.4819
Mean Conc. 0.1230mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.14mg/L

1. Det

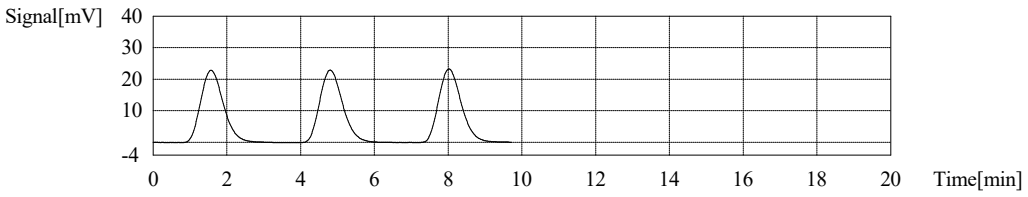
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.60	24.91mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:42:30 PM
2	98.71	25.20mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:46:19 PM
3	99.15	25.31mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:50:09 PM

TOC-Control L Report

2024_06_05_002.tlx

Mean Area 98.49
Mean Conc. 25.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

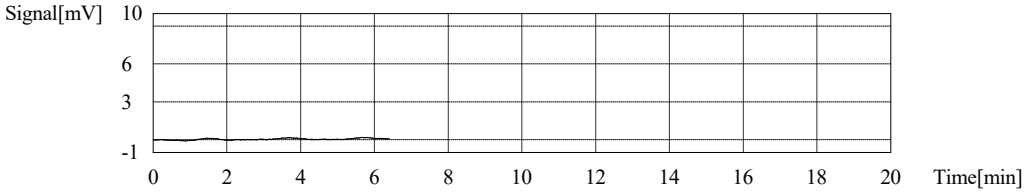
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1071mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5186	0.1324mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:54:17 PM
2	0.3473	0.08866mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:56:54 PM
3	0.3932	0.1004mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:59:43 PM

Mean Area 0.4197
Mean Conc. 0.1071mg/L



HS24051271 E2400542 Perchlorate level IV report

ALS WO# HS24051271

June 04, 2024 Service Request No:E2400542

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051271

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400542.**

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

H Kelany

Hussam Kelany
Project Manager

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400542
Project:	HS24051271	**Date Received:**	05/22/24
Sample Matrix:	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

Two samples were received for analysis at ALS Environmental in Houston on 05/22/24.

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:

EQ2400252: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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.

Client: ALS Environmental - US **Service Request:**E2400542
Project: HS24051271

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400542-001	LH18/24-SP650_052124_BIX	5/21/2024	1300
E2400542-002	LH18/24-SP650_052124_AIX	5/21/2024	1300

Service Request Summary

Folder #: **E2400542**
Client Name: ALS Environmental - US
Project Name: HS24051271
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: MONICA.SMITH
Date Received: 05/22/24
Internal Due Date: 6/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400542-001	LH18/24-SP650_052124_BIX	Water	05/21/24 1300	**IV**
E2400542-002	LH18/24-SP650_052124_AIX	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #: **E2400542**
Client Name: ALS Environmental - US
Project Name: HS24051271
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: MONICA.SMITH
Date Received: 05/22/24
Internal Due Date: 6/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
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.

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.

ALS Laboratory Group

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

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

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
Maine Department of Health and Human Services	2022017	6/5/2024
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

Chain of Custody

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

E2400542 5
ALS Laboratory Group
HS24051271

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25754**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051271
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051271-03**	**LH18/24-SP650_052124_BIX**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			23 May 2024
2.	**HS24051271-04**	**LH18/24-SP650_052124_AIX**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			23 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5-22-24 1015

Cooler ID(s): _____ Temperature(s): _____

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HS24051271

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Sample Receipt Checklist

Work Order ID: HS24051271 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 12:52 (Date/Time) Monica Smith (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: water **Carrier name:** FedEx

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): none
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): 2.5 uc/2.6 c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 05/22/2024 1252

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:

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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
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Preparation Information Benchsheet

Prep Run#: 439095 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/28/24 08:20

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400501-001	GW-MW-71D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
2	E2400501-002	GW-MW-48-20240515-01	.01	6850/ClO4			Ground Water	10mL	
3	E2400502-001	GW-359-20240515-01	.01	6850/ClO4			Ground Water	10mL	
4	E2400503-001	GW-MW-63D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
5	E2400504-001	GW-MW-50D2-20240514-01	.01	6850/ClO4			Ground Water	10mL	
6	E2400504-002	GW-MW-76D3-20240514-01	.01	6850/ClO4			Ground Water	10mL	
7	E2400504-003	GW-MW-84D2-20240515-01	.01	6850/ClO4			Ground Water	10mL	
8	E2400504-004	GW-MW-85D3-20240515-01	.01	6850/ClO4			Ground Water	10mL	
9	E2400505-001	GW-170-20240515-01	.01	6850/ClO4			Ground Water	10mL	
10	E2400506-001	GW-MW-83D3-20240515-01	.01	6850/ClO4			Ground Water	10mL	
11	E2400506-002	GW-DUP-01-20240515-01	.01	6850/ClO4			Ground Water	10mL	
12	E2400519-001	GW-MW-64-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400522-001	GW-MW-69-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400523-001	GW-MW-88D3-20240517-01	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400524-001	GW-280A-20240516-05	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400525-001	GW-MW-61-DW-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400526-001	GW-MW-55D-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2400527-001	GW-MW-57D2-20240516-01	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2400542-001	LH18/24-SP650_052124_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400542-002	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400252-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400252-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400252-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400252-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400252-04 20.00µL EQ2400252-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400252-02 100.00µL EQ2400252-02 100.00µL EQ2400252-03 100.00µL EQ2400252-03 100.00µL EQ2400252-04 100.00µL EQ2400252-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 439095 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/28/24 08:20

E2400542-001	100.00µL	E2400542-002	100.00µL	EQ2400252-01	100.00µL	EQ2400252-01	100.00µL	EQ2400252-02	100.00µL	EQ2400252-02	100.00µL
EQ2400252-03	100.00µL	EQ2400252-03	100.00µL	EQ2400252-04	100.00µL	EQ2400252-04	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/28/24 08:20
Finished: 5/28/24 11:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_BIX	**Units:**	µg/L
Lab Code:	E2400542-001	**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	**9.41**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:28	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_AIX	**Units:**	µg/L
Lab Code:	E2400542-002	**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	**0.150**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:23	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400252-01	**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	5/28/24	5/29/24 14:01	439095	842355	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Sample Matrix: Water

Service Request: E2400542
Date Analyzed: 5/29/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439095

	Lab Control Sample EQ2400252-02			Duplicate Lab Control Sample EQ2400252-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.108	0.100	108	0.0920	0.100	92	84 - 119	16 *	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400252-02	**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	**0.108**		0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:06	439095	842355	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400252-03	**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	**0.0920**	J	0.100	0.0500	0.0250	1	5/28/24	5/29/24 14:12	439095	842355	

Initial Calibration

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Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240523-001	IB	Perchlorate6850c.lcm	1x		5/23/2024 14:17
2	20240523-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		5/23/2024 14:23
3	20240523-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		5/23/2024 14:28
4	20240523-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		5/23/2024 14:34
5	20240523-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		5/23/2024 14:39
6	20240523-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		5/23/2024 14:45
7	20240523-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		5/23/2024 14:50
8	20240523-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		5/23/2024 14:56
9	20240523-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		5/23/2024 15:01
10	20240523-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		5/23/2024 15:07
11	20240523-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		5/23/2024 15:12
12	20240523-012	PerchlorateICV	Perchlorate6850c.lcm	1x		5/23/2024 15:18
13	20240523-013	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:23
14	20240523-014	LODV	Perchlorate6850c.lcm	1x		5/23/2024 15:29
15	20240523-015	ICS	Perchlorate6850c.lcm	1x		5/23/2024 15:35
16	20240523-016	CCV	Perchlorate6850c.lcm	1x		5/23/2024 15:40
17	20240523-017	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:46
18	20240523-018	EQ2400248-01 MB	Perchlorate6850c.lcm	1x		5/23/2024 15:51
19	20240523-019	EQ2400248-02 LCS	Perchlorate6850c.lcm	1x		5/23/2024 15:57
20	20240523-020	EQ2400248-03 DLCS	Perchlorate6850c.lcm	1x		5/23/2024 16:02
21	20240523-021	EQ2400248-04 ICS	Perchlorate6850c.lcm	1x		5/23/2024 16:08
22	20240523-022	E2400538-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:13
23	20240523-023	E2400498-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:19
24	20240523-024	E2400498-02	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:25
25	20240523-025	E2400483-01	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:30
26	20240523-026	E2400538-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:36
27	20240523-027	E2400483-02	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:41
28	20240523-028	CCV	Perchlorate6850c.lcm	1x		5/23/2024 16:47
29	20240523-029	IB	Perchlorate6850c.lcm	1x		5/23/2024 16:52
30	20240523-030	E2400492-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:58
31	20240523-031	E2400538-01 10x	Perchlorate6850c.lcm	1x	10x DL wrong	5/23/2024 17:03
32	20240523-032	E2400492-02	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:09
33	20240523-033	E2400492-03	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:15
34	20240523-034	E2400492-04	Perchlorate6850c.lcm	1x		5/23/2024 17:20
35	20240523-035	E2400493-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:26
36	20240523-036	CCV	Perchlorate6850c.lcm	1x		5/23/2024 17:31
37	20240523-037	IB	Perchlorate6850c.lcm	1x		5/23/2024 17:37

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

Initial Calibration - Detailed Report

Calibration ID: EC2400008 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400008-01	Perchlorate ICAL 1	20240523-002	05/23/2024 14:23
02	EC2400008-02	Perchlorate ICAL 2	20240523-003	05/23/2024 14:28
03	EC2400008-03	Perchlorate ICAL 3	20240523-004	05/23/2024 14:34
04	EC2400008-04	Perchlorate ICAL 4	20240523-005	05/23/2024 14:39
05	EC2400008-05	Perchlorate ICAL 5	20240523-006	05/23/2024 14:45
06	EC2400008-06	Perchlorate ICAL 6	20240523-007	05/23/2024 14:50
07	EC2400008-07	Perchlorate ICAL 7	20240523-008	05/23/2024 14:56
08	EC2400008-08	Perchlorate ICAL 8	20240523-009	05/23/2024 15:01
09	EC2400008-09	Perchlorate ICAL 9	20240523-010	05/23/2024 15:07
10	EC2400008-10	Perchlorate ICAL 10	20240523-011	05/23/2024 15:12

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.262** **Average RF = 0.1325**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	08	20.0000	0.1398
09	30.0000	0.1399	10	50.0000	0.1401						

Analyte

Perchlorate RSE = 6.26

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0961	-3.9	02	0.5000	0.442	-11.6	03	0.7000	0.649	-7.3
04	1.0000	0.964	-3.6	05	2.0000	2.03	1.5	06	5.0000	5.11	2.2
07	10.0000	10.6	5.7	08	20.0000	21.1	5.5	09	30.0000	31.7	5.6
10	50.0000	52.9	5.8								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400008	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240523-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400008-11	T	Average RF	10	10.506	ng/mL	5.1	<= 15

Insight Report

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Method File: I:\LCMS01\DATA\20240523ICAL\20240523.lcm
Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damlp

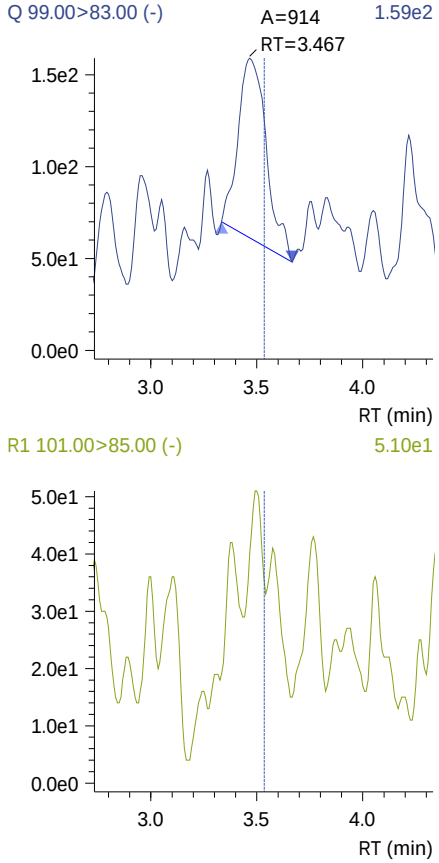
IB

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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	424709	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.478	424709	424709	1.0000	ng/mL	----	----	

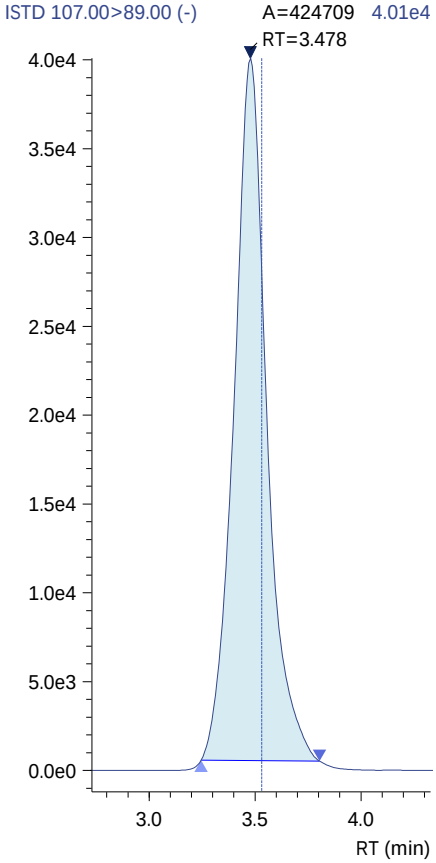
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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Perchlorate ICAL 1

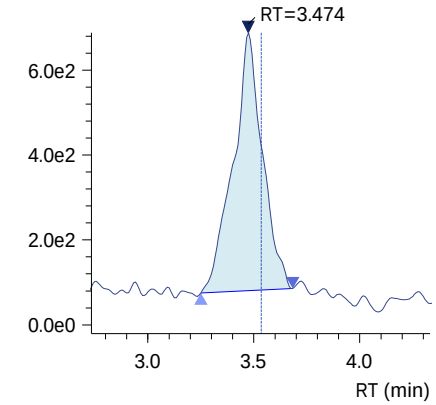
Sample ID: Perchlorate ICAL 1
Date Acquired: 5/23/2024 2:23:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	5862	460498	0.0961	ng/mL	101.00 >85.00	26.81	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.476	460498	460498	1.0000	ng/mL	----	----	

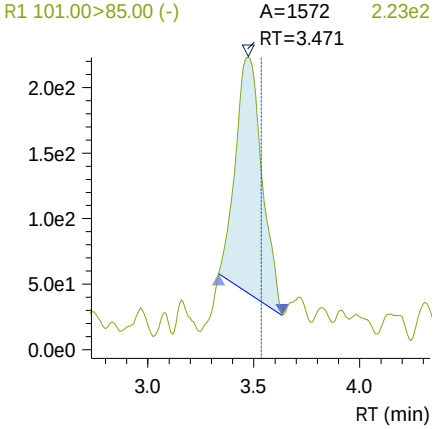
Perchlorate

Conc 0.0961
R#1 26.81 (34.10)

Q 99.00>83.00 (-) A=5862 6.88e2



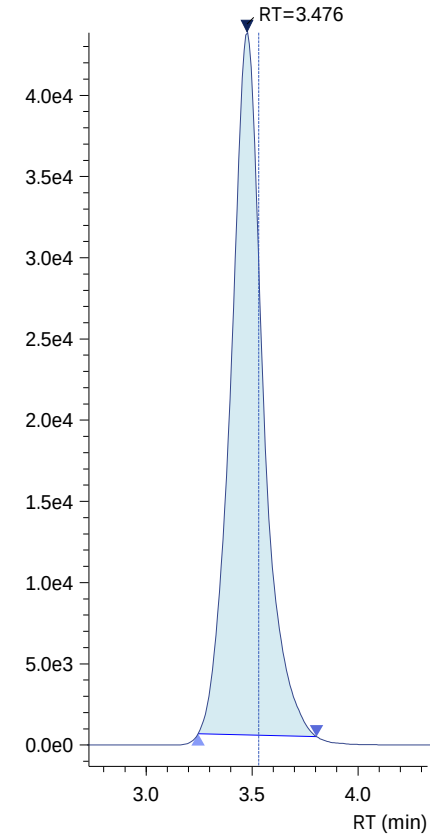
R1 101.00>85.00 (-) A=1572 2.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=460498 4.39e4



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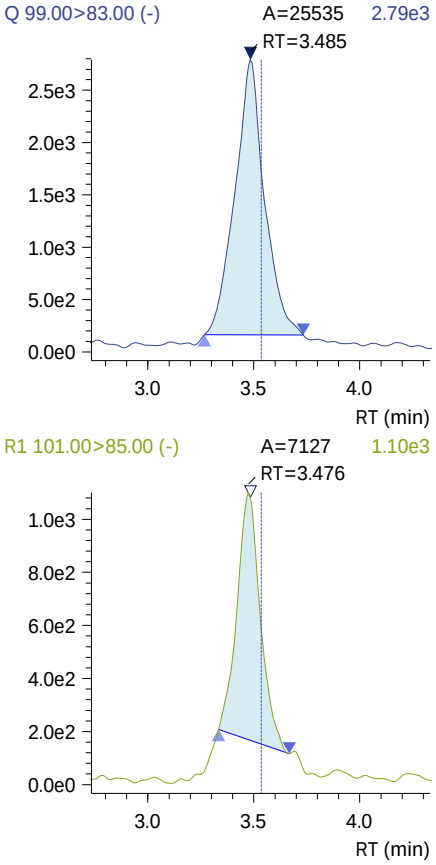
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 5/23/2024 2:28:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.485	25535	436264	0.4419	ng/mL	101.00 >85.00	27.91	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.477	436264	436264	1.0000	ng/mL	----	----	

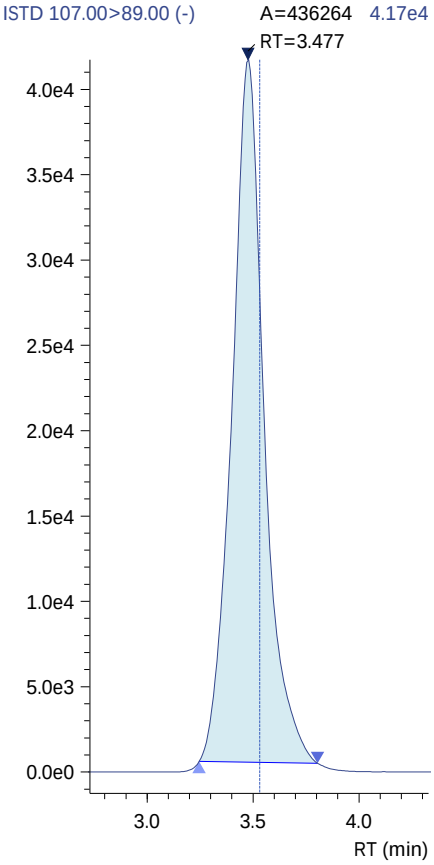
Perchlorate

Conc 0.4419
R#1 27.91 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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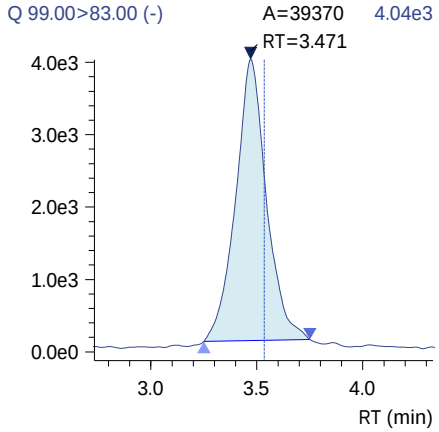
Perchlorate ICAL 3

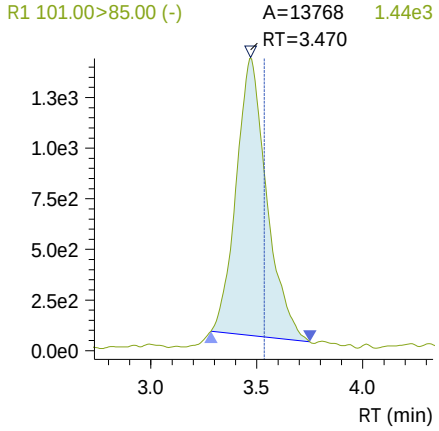
Sample ID: Perchlorate ICAL 3
Date Acquired: 5/23/2024 2:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	39370	458077	0.6488	ng/mL	101.00 >85.00	34.97	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	458077	458077	1.0000	ng/mL	----	----	

Perchlorate

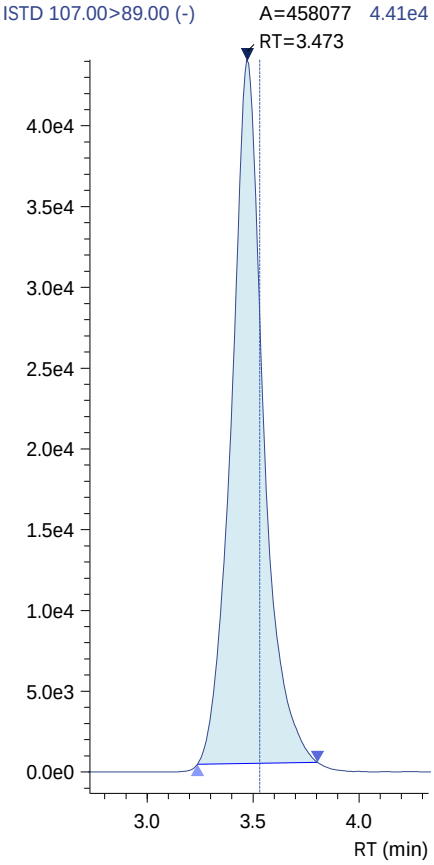
Conc 0.6488
R#1 34.97 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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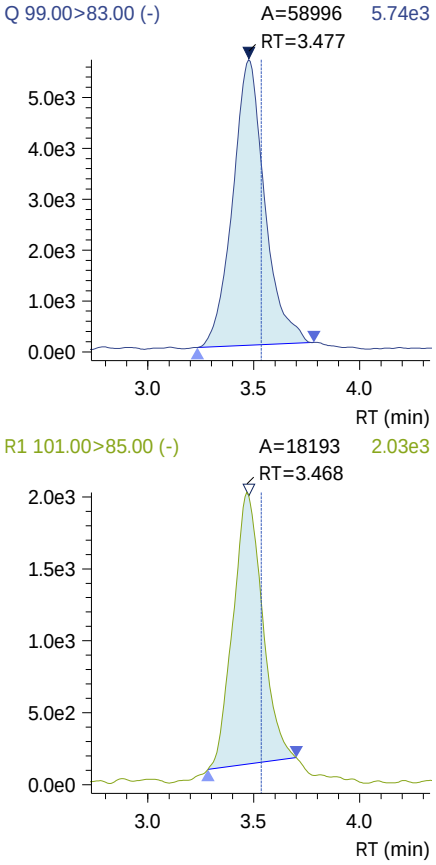
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 5/23/2024 2:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	58996	462144	0.9637	ng/mL	101.00 >85.00	30.84	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	462144	462144	1.0000	ng/mL	----	----	

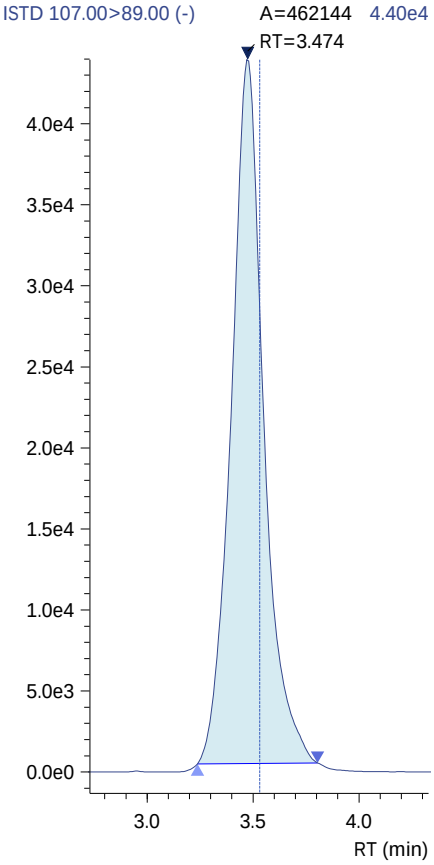
Perchlorate

Conc 0.9637
R#1 30.84 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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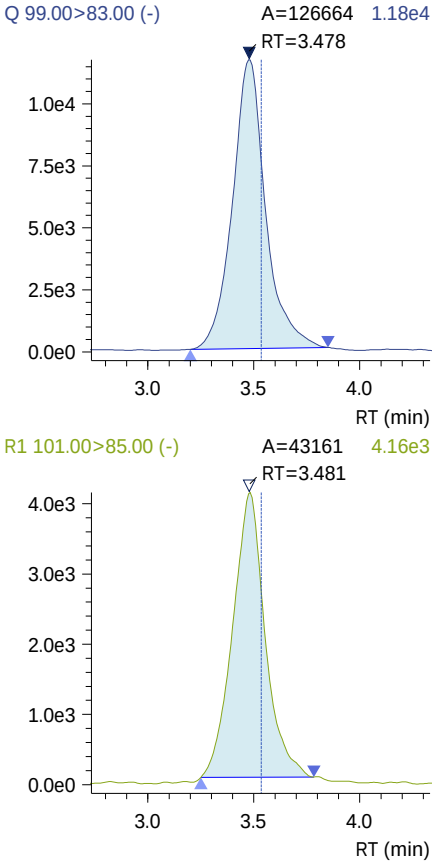
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 5/23/2024 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.478	126664	470896	2.0307	ng/mL	101.00 >85.00	34.08	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.475	470896	470896	1.0000	ng/mL	----	----	

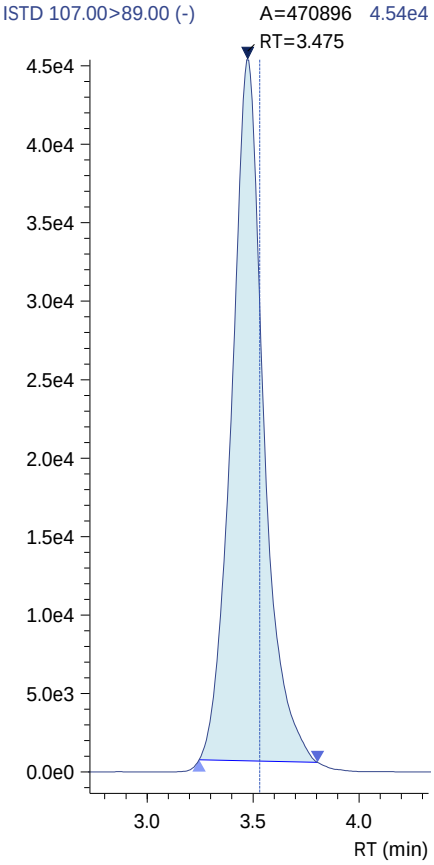
Perchlorate

Conc 2.0307
R#1 34.08 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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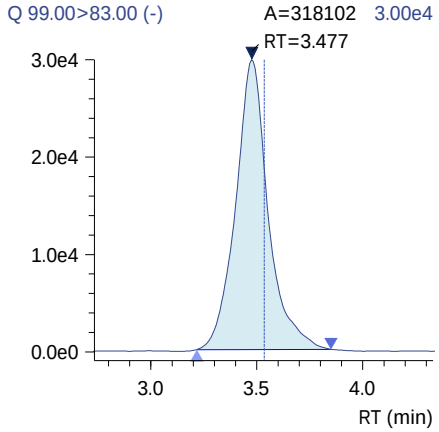
Perchlorate ICAL 6

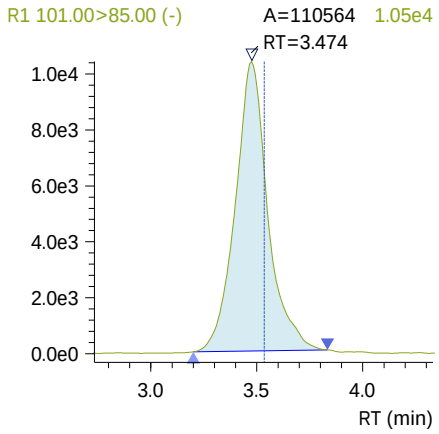
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Date Acquired: 5/23/2024 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	318102	469845	5.1113	ng/mL	101.00 >85.00	34.76	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	469845	469845	1.0000	ng/mL	----	----	

Perchlorate

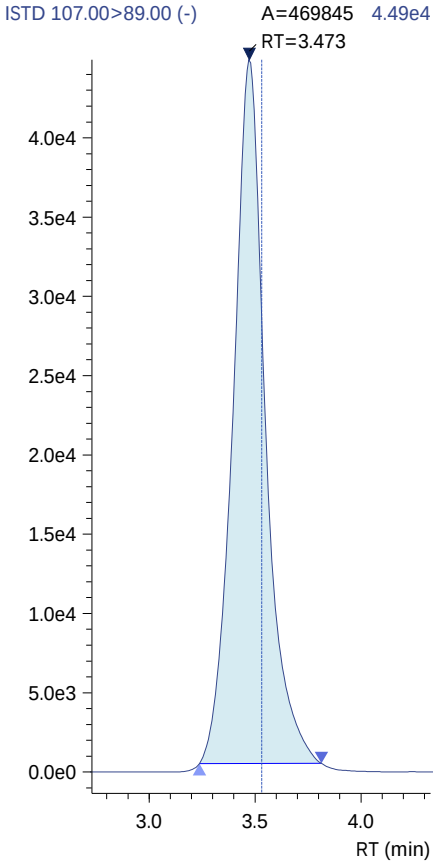
Conc 5.1113
R#1 34.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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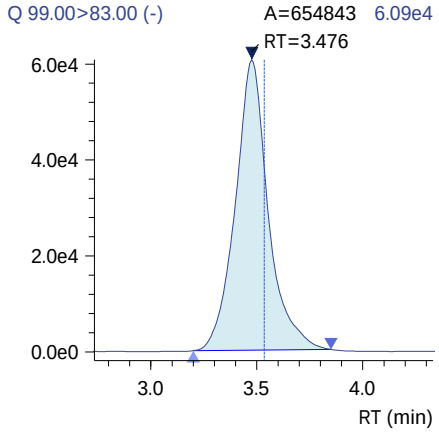
Perchlorate ICAL 7

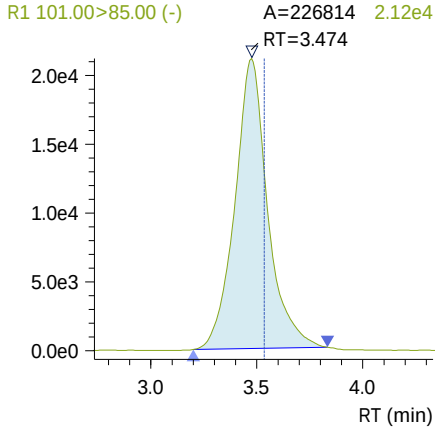
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Date Acquired: 5/23/2024 2:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	654843	467526	10.5 742	ng/mL	101.00 >85.00	34.64	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	467526	467526	1.0000	ng/mL	----	----	

Perchlorate

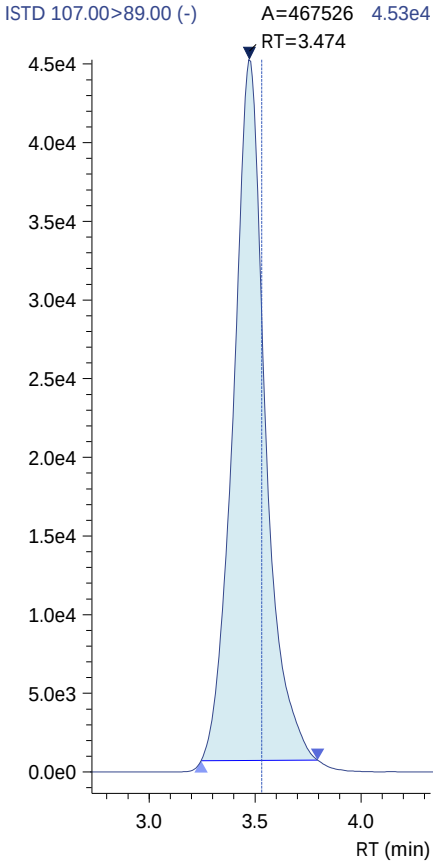
Conc 10.5742
R#1 34.64 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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Perchlorate ICAL 8

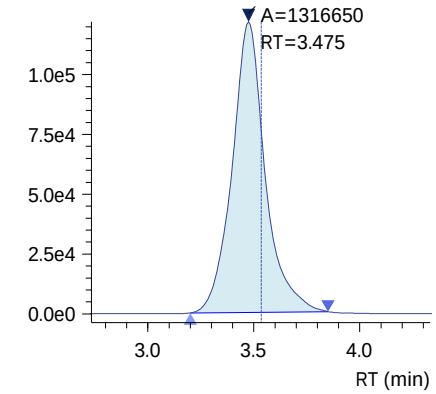
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	13166 50	470903	21.1 084	ng/mL	101.00 >85.00	34.99	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	470903	470903	1.0000	ng/mL	----	----	

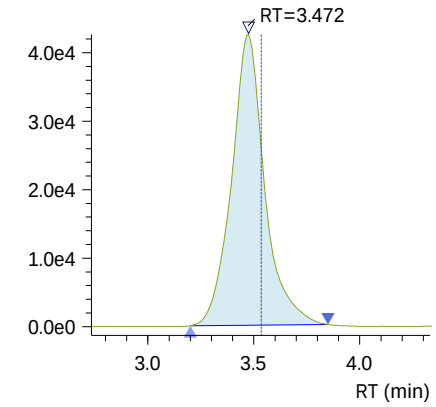
Perchlorate

Conc 21.1084
R#1 34.99 (34.10)

Q 99.00>83.00 (-) 1.22e5



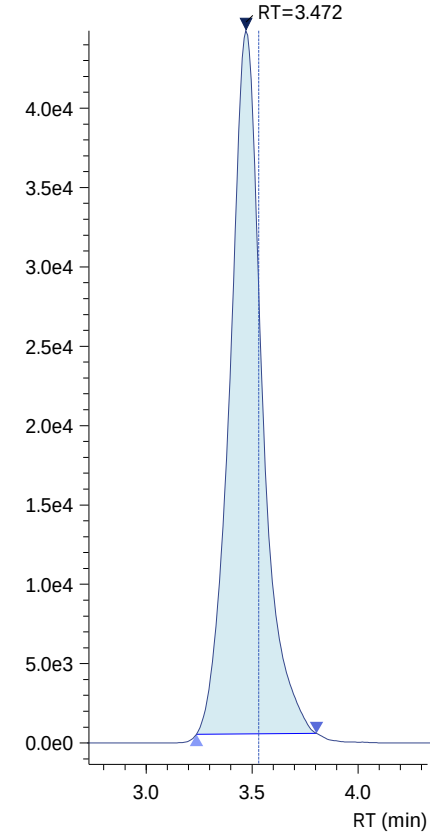
R1 101.00>85.00 (-) A=460661 4.27e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=470903 4.49e4



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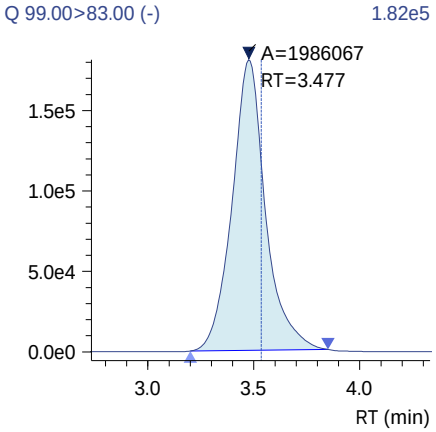
Perchlorate ICAL 9

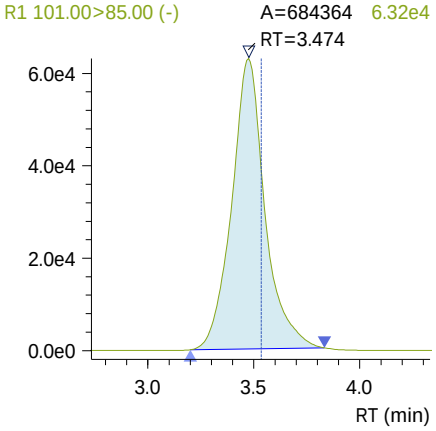
Sample ID: Perchlorate ICAL 9
Date Acquired: 5/23/2024 3:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	19860	473268	31.6	ng/mL	101.00	34.46	24.14
			67		813		>85.00		-44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	473268	473268	1.0000	ng/mL	----	----	

Perchlorate

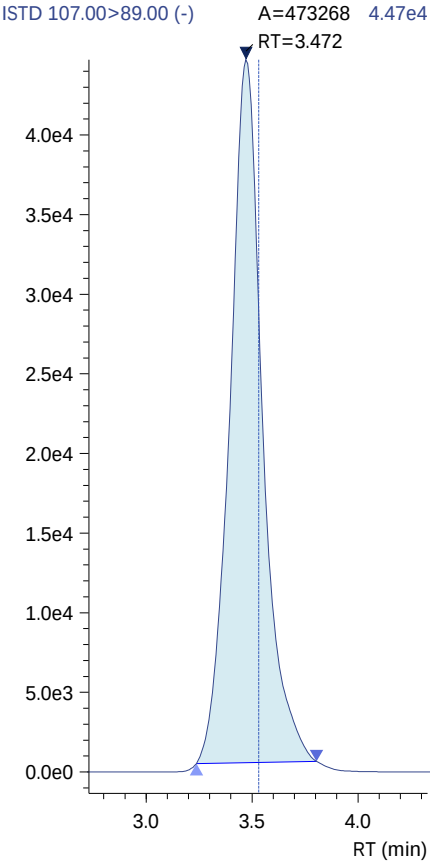
Conc 31.6813
R#1 34.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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Perchlorate ICAL 10

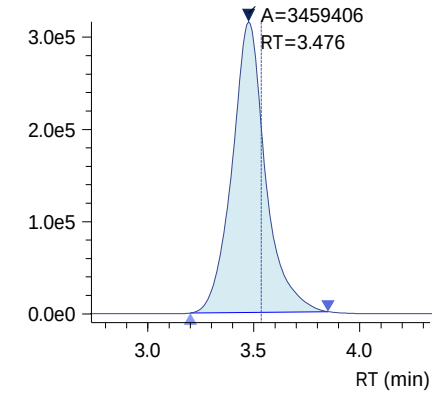
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Date Acquired: 5/23/2024 3:12:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	3459406	493682	52.9018	ng/mL	101.00 >85.00	34.61	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	493682	493682	1.0000	ng/mL	----	----	

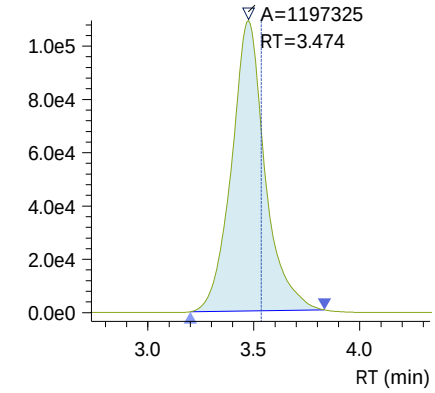
Perchlorate

Conc 52.9018
R#1 34.61 (34.10)

Q 99.00>83.00 (-) 3.17e5



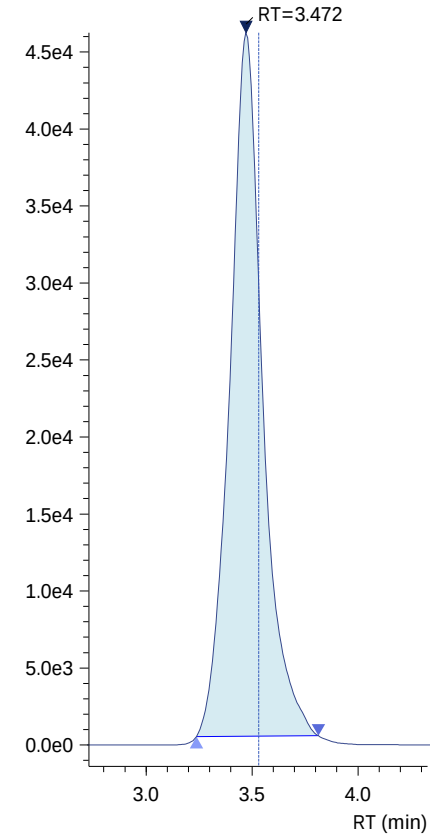
R1 101.00>85.00 (-) 1.10e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=493682 4.63e4



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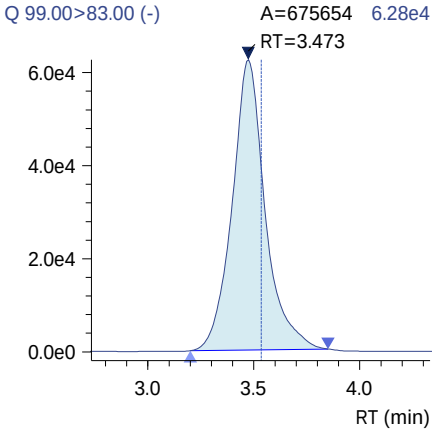
PerchlorateICV

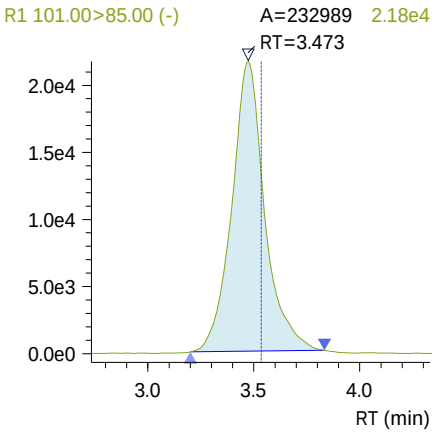
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Date Acquired: 5/23/2024 3:18:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	675654	485527	10.5058	ng/mL	101.00 >85.00	34.48	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	485527	485527	1.0000	ng/mL	----	----	

Perchlorate

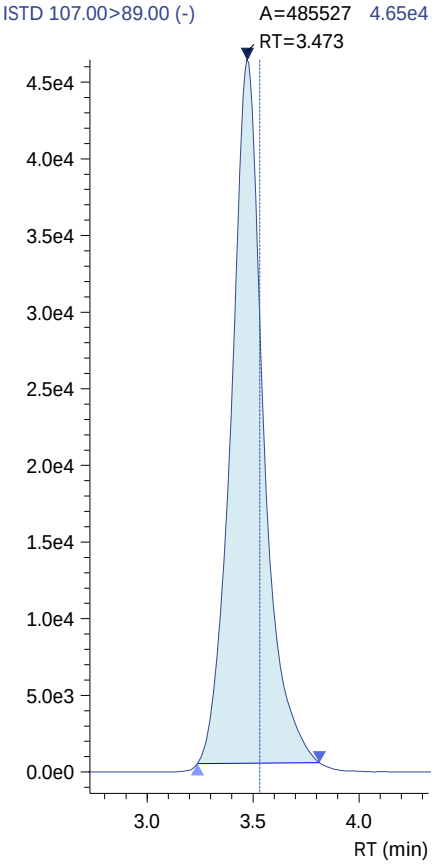
Conc 10.5058
R#1 34.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

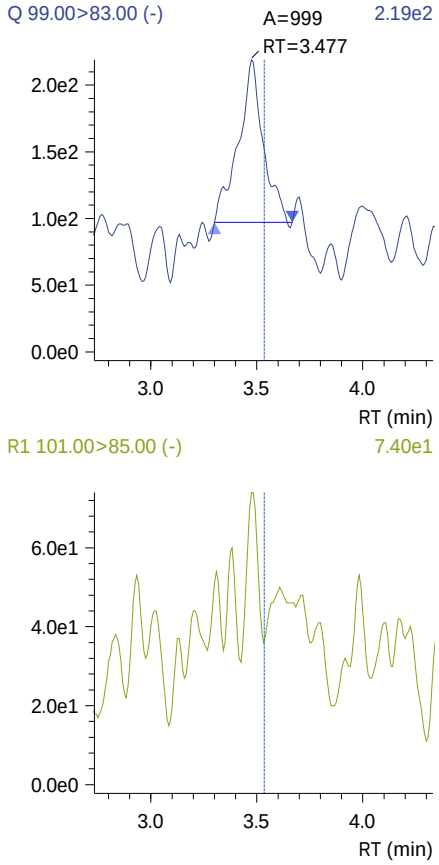
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:23:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	485949	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	485949	485949	1.0000	ng/mL	----	----	

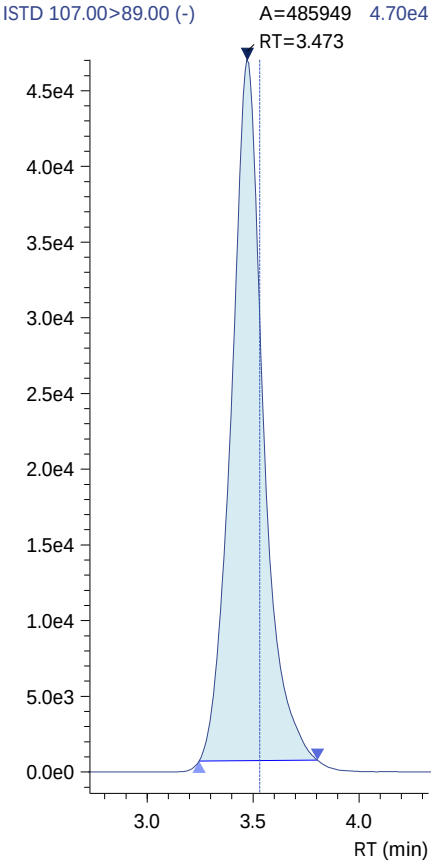
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400542
Project: HS24051271 **Calibration Date:** 5/23/24

Initial Calibration Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Calibration ID: EC2400008 **Signal ID:** 1
Instrument ID: E-LCMS-01

#	File Location	Acquisition Date	#	File Location	Acquisition Date
01	20240523-002	5/23/24 14:23	02	20240523-003	5/23/24 14:28
03	20240523-004	5/23/24 14:34	04	20240523-005	5/23/24 14:39
05	20240523-006	5/23/24 14:45	06	20240523-007	5/23/24 14:50
07	20240523-008	5/23/24 14:56	08	20240523-009	5/23/24 15:01
09	20240523-010	5/23/24 15:07	10	20240523-011	5/23/24 15:12
11	20240523-012	5/23/24 15:18			

Analyte

Perchlorate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	11	10.0000	0.1392
08	20.0000	0.1398	09	30.0000	0.1399	10	50.0000	0.1401			

		Calibration Evaluation					RRF Evaluation		
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	**Average RRF**	**Q**	**Minimum RRF**
Perchlorate	TRG	Average RF	% RSD	6.1		≤ 15	0.1331		

Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233566**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240529-001	IB	Perchlorate6850c.lcm	1x		5/29/2024 13:33
2	20240529-002	LODV	Perchlorate6850c.lcm	1x		5/29/2024 13:38
3	20240529-003	ICS	Perchlorate6850c.lcm	1x		5/29/2024 13:44
4	20240529-004	CCV	Perchlorate6850c.lcm	1x		5/29/2024 13:49
5	20240529-005	IB	Perchlorate6850c.lcm	1x		5/29/2024 13:55
6	20240529-006	EQ2400252-01	Perchlorate6850c.lcm	1x		5/29/2024 14:01
7	20240529-007	EQ2400252-02	Perchlorate6850c.lcm	1x		5/29/2024 14:06
8	20240529-008	EQ2400252-03	Perchlorate6850c.lcm	1x		5/29/2024 14:12
9	20240529-009	EQ2400252-04	Perchlorate6850c.lcm	1x		5/29/2024 14:17
10	20240529-010	E2400542-02	Perchlorate6850c.lcm	1x		5/29/2024 14:23
11	20240529-011	E2400542-01	Perchlorate6850c.lcm	1x		5/29/2024 14:28
12	20240529-012	CCV	Perchlorate6850c.lcm	1x		5/29/2024 14:34
13	20240529-013	IB	Perchlorate6850c.lcm	1x		5/29/2024 14:39
14	20240529-014	E2400501-02	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 17:11
15	20240529-015	E2400503-01	Perchlorate6850c.lcm	1x		5/29/2024 17:17
16	20240529-016	E2400502-01 500x	Perchlorate6850c.lcm	500x		5/29/2024 17:22
17	20240529-017	E2400501-01 500x	Perchlorate6850c.lcm	500x	DNU ISs	5/29/2024 17:28
18	20240529-018	CCV	Perchlorate6850c.lcm	1x		5/29/2024 17:33
19	20240529-019	IB	Perchlorate6850c.lcm	1x		5/29/2024 17:39
20	20240529-020	E2400504-001	Perchlorate6850c.lcm	1x		5/29/2024 17:44
21	20240529-021	E2400504-002	Perchlorate6850c.lcm	1x		5/29/2024 17:50
22	20240529-022	E2400504-003	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 17:55
23	20240529-023	E2400504-004	Perchlorate6850c.lcm	1x		5/29/2024 18:01
24	20240529-024	E2400506-01	Perchlorate6850c.lcm	1x		5/29/2024 18:06
25	20240529-025	E2400506-02	Perchlorate6850c.lcm	1x		5/29/2024 18:12
26	20240529-026	E2400522-01	Perchlorate6850c.lcm	1x		5/29/2024 18:17
27	20240529-027	E2400523-01	Perchlorate6850c.lcm	1x		5/29/2024 18:23
28	20240529-028	E2400505-01	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 18:28
29	20240529-029	E2400519-01 100x	Perchlorate6850c.lcm	100x		5/29/2024 18:34
30	20240529-030	CCV	Perchlorate6850c.lcm	1x		5/29/2024 18:40
31	20240529-031	IB	Perchlorate6850c.lcm	1x		5/29/2024 18:45
32	20240529-032	E2400524-01	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 18:51
33	20240529-033	E2400525-01	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 18:56
34	20240529-034	E2400526-01	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 19:02
35	20240529-035	EQ2400253-01	Perchlorate6850c.lcm	1x		5/29/2024 19:07
36	20240529-036	EQ2400253-02	Perchlorate6850c.lcm	1x		5/29/2024 19:13
37	20240529-037	EQ2400253-03	Perchlorate6850c.lcm	1x		5/29/2024 19:19
	20240529-038	EQ2400253-04	Perchlorate6850c.lcm	1x		5/29/2024 19:24
	20240529-039	E2400507-01	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 19:30
	20240529-040	E2400527-01 10x	Perchlorate6850c.lcm	10x		5/29/2024 19:35

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233566**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
	20240529-041	E2400507-02 1000x	Perchlorate6850c.lcm	1000x		5/29/2024 19:41
	20240529-042	CCV	Perchlorate6850c.lcm	1x		5/29/2024 19:46
	20240529-043	IB	Perchlorate6850c.lcm	1x		5/29/2024 19:52
	20240529-044	E2400507-05	Perchlorate6850c.lcm	1x		5/29/2024 19:57
	20240529-045	E2400507-06	Perchlorate6850c.lcm	1x		5/29/2024 20:03
	20240529-046	E2400507-07	Perchlorate6850c.lcm	1x		5/29/2024 20:08
	20240529-047	E2400507-08	Perchlorate6850c.lcm	1x	DNU ISs	5/29/2024 20:14

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 13:49

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-004	**Lab Code:**	EQ2400260-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-01	290,731	3.45
Method Blank	EQ2400252-01	282,832	3.45
Lab Control Sample	EQ2400252-02	272,953	3.45
Duplicate Lab Control Sample	EQ2400252-03	268,713	3.45
LH18/24-SP650_052124_AIX	E2400542-002	272,482	3.45
LH18/24-SP650_052124_BIX	E2400542-001	272,001	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 14:34

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-012	**Lab Code:**	EQ2400260-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-02	291,758	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 17:33

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-018	**Lab Code:**	EQ2400260-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-03	261,807	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 18:40

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-030	**Lab Code:**	EQ2400260-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-04	272,931	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 19:46

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-042	**Lab Code:**	EQ2400260-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-05	255,014	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 20:53

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-054	**Lab Code:**	EQ2400260-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-06	263,575	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 21:59

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-066	**Lab Code:**	EQ2400260-07
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-07	269,450	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 22:38

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-073	**Lab Code:**	EQ2400260-08
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-08	260,703	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400542
Project:	HS24051271	**Date Analyzed:**	5/29/24 23:22

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240529\20240529-081	**Lab Code:**	EQ2400260-09
Instrument ID:	E-LCMS-01	**Analysis Lot:**	842355
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	468,057	3.47
	Upper Limit ==>	702,086	5.47
	Lower Limit ==>	234,029	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400260-09	260,059	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-004
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1331	0.1451	9.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-012
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1331	0.1449	8.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-018
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1331	0.1516	13.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-030
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1331	0.1422	6.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-042
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1331	0.1512	13.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-054
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1331	0.1454	9.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-066
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1331	0.1407	5.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-073
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1331	0.1433	7.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051271
Service Request: E2400542
Date Analyzed: 5/29/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240529\20240529-081
Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842355
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1331	0.1450	9.0	NA	± 15 %	Average RF

Insight Report

Printed at 5/29/2024 3:28:50 PM

Method File: I:\LCMS01\DATA\20240529\20240529.lcm
Project File: I:\LCMS01\DATA\20240529\20240529.damlp

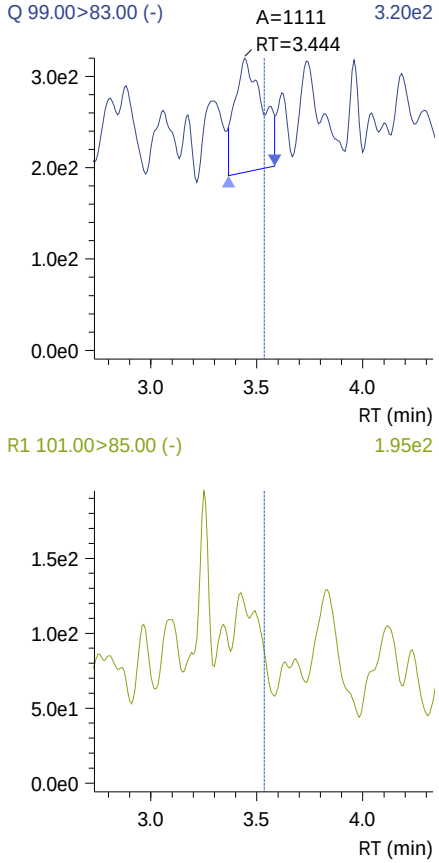
IB

Sample ID: IB
Date Acquired: 5/29/2024 1:33:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	255017	----	ng/mL	101.00 >85.00	0.00	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.454	255017	255017	1.0000	ng/mL	----	----	

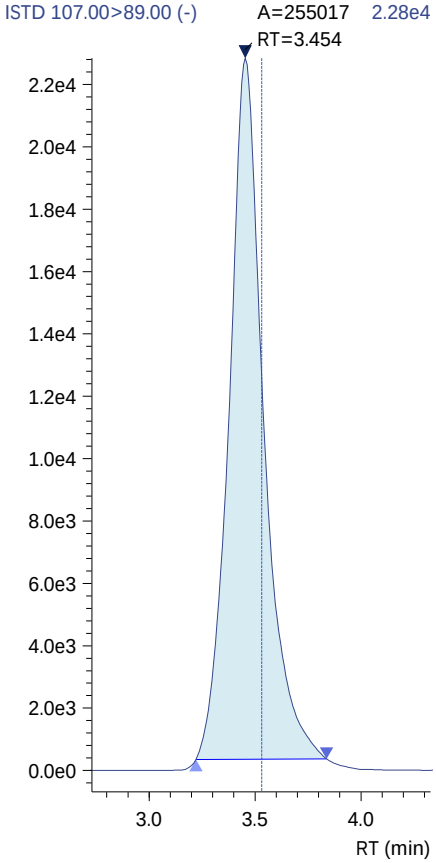
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 3:28:50 PM

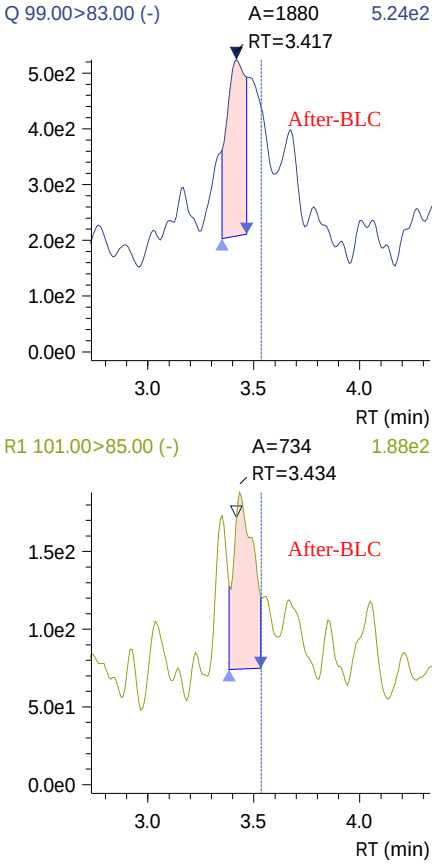
LODV

Sample ID: LODV
Date Acquired: 5/29/2024 1:38:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	1880	272568	0.0521	ng/mL	101.00 >85.00	39.02	23.63 -43.88
Sodium Perchlorate-18O4 _IS	Auto	3.452	2725 68	272568	1.0000	ng/mL	----	----	

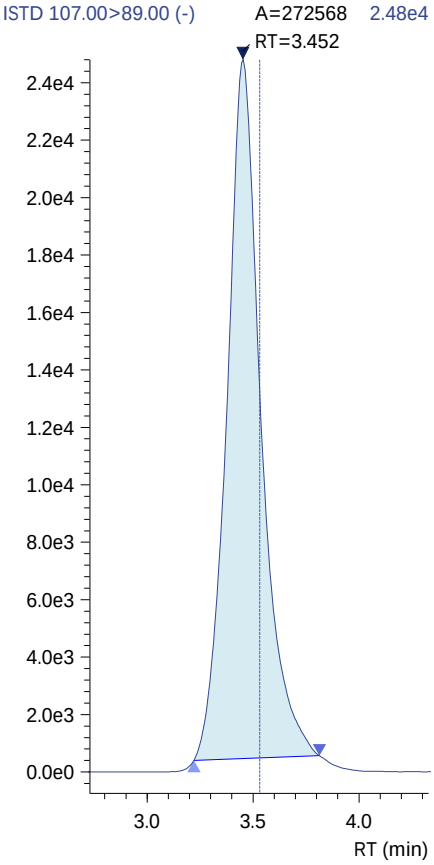
Perchlorate

Conc 0.0521
R#1 39.02 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 3:29:58 PM

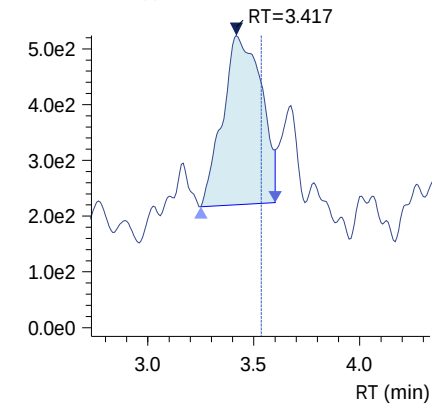
LODV

Sample ID: LODV
Date Acquired: 5/29/2024 1:38:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

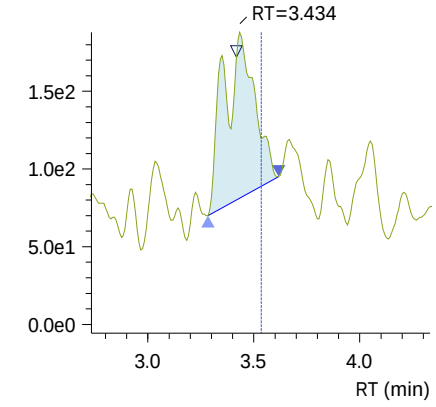
Perchlorate

Conc 0.1067
R#1 28.33 (34.10)

Q 99.00>83.00 (-) A=3854 5.24e2



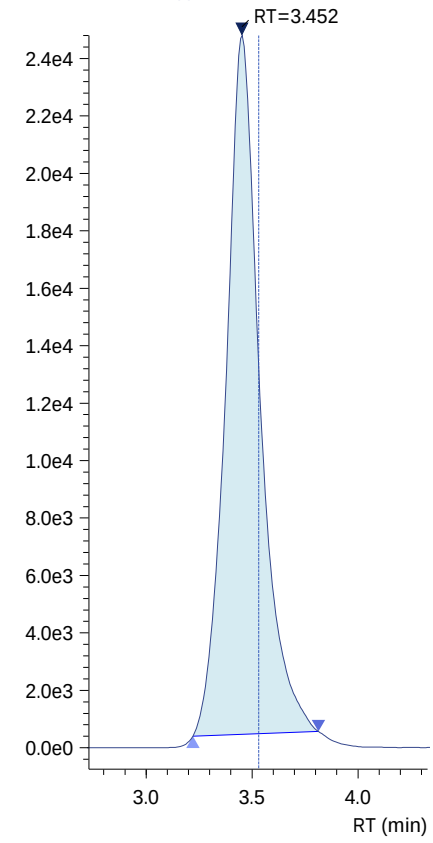
R1 101.00>85.00 (-) A=1092 1.88e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272568 2.48e4



Insight Report

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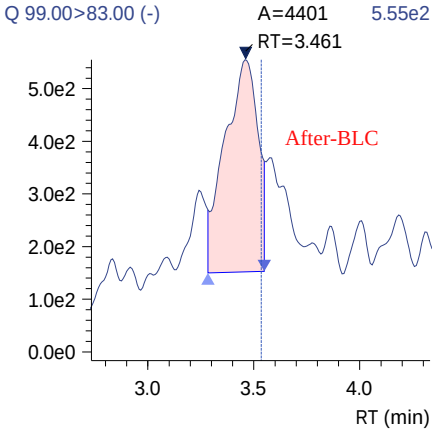
ICS

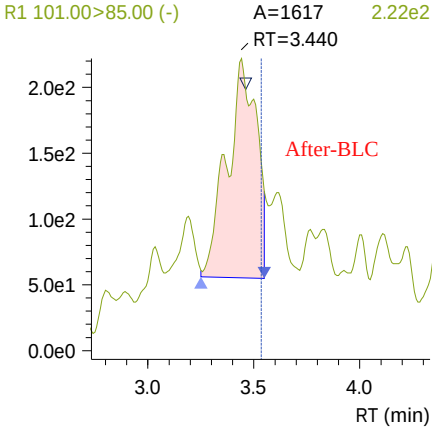
Sample ID: ICS
Date Acquired: 5/29/2024 1:44:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.461	4401	280407	0.1185	ng/mL	101.00 >85.00	36.73	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.452	280407	280407	1.0000	ng/mL	----	----	

Perchlorate

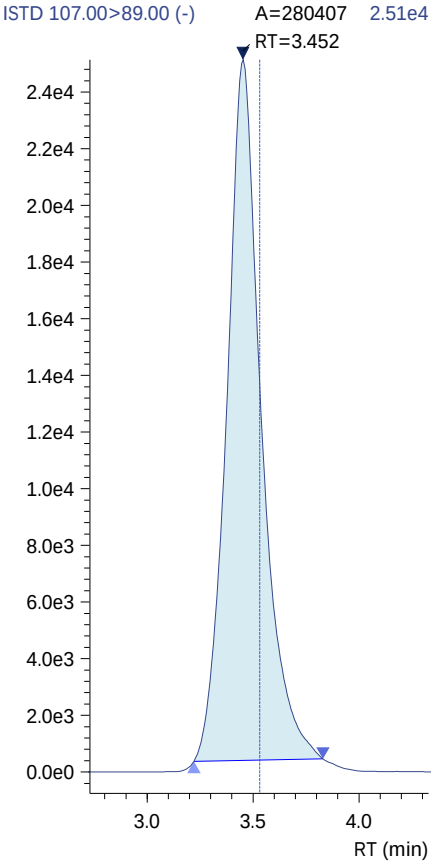
Conc 0.1185
R#1 36.73 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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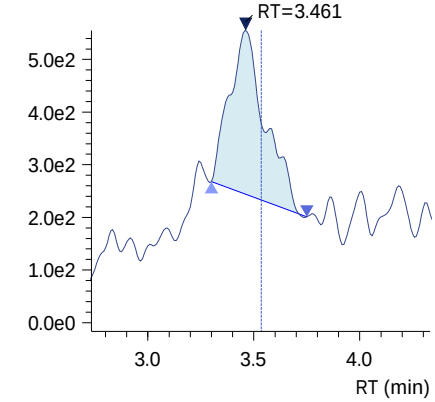
ICS

Sample ID: ICS
Date Acquired: 5/29/2024 1:44:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

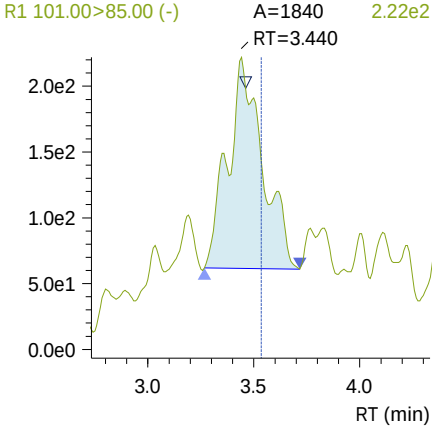
Perchlorate

Conc 0.0981
R#1 50.49 (34.10)

Q 99.00>83.00 (-) A=3645 5.55e2



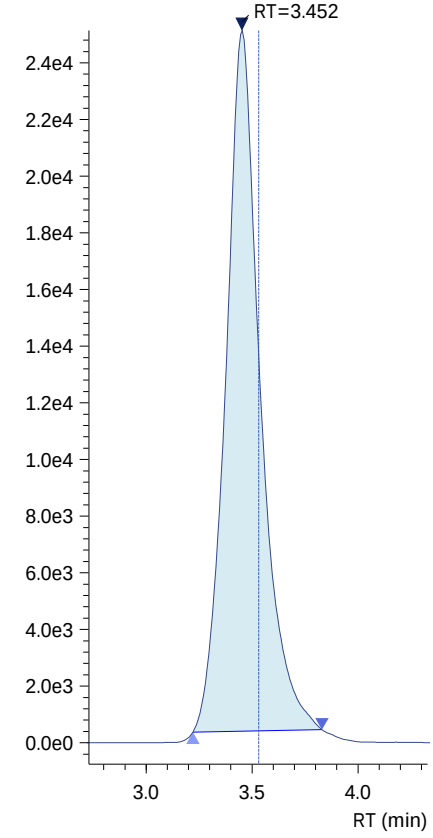
R1 101.00>85.00 (-) A=1840 2.22e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=280407 2.51e4



Insight Report

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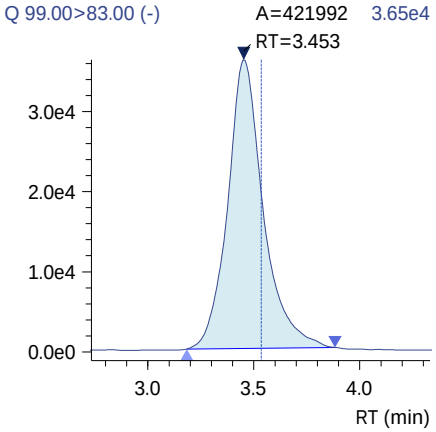
CCV

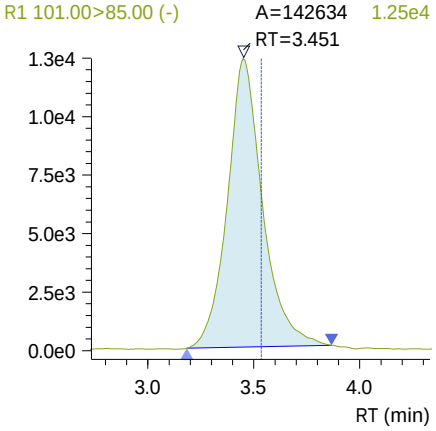
Sample ID: CCV
Date Acquired: 5/29/2024 1:49:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	4219 92	290731	10.9 580	ng/mL	101.00 >85.00	33.80	23.63 -43.88
Sodium Perchlorate-18O4_IS	M	3.453	2907 31	290731	1.0000	ng/mL	----	----	

Perchlorate

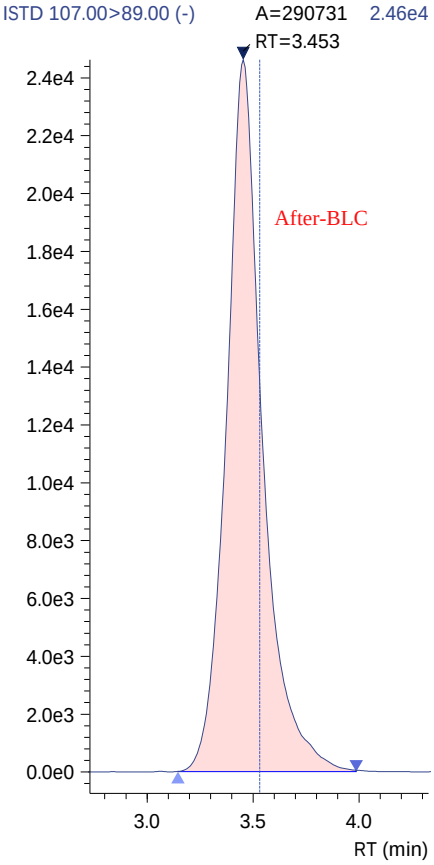
Conc 10.9580
R#1 33.80 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 3:29:58 PM

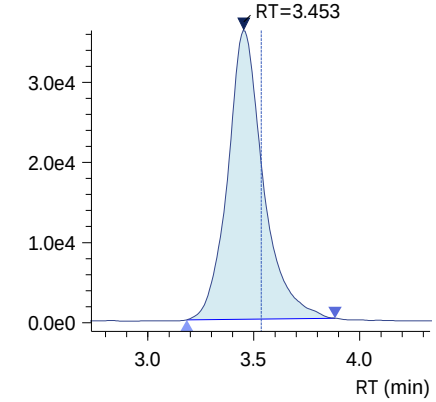
CCV

Sample ID: CCV
Date Acquired: 5/29/2024 1:49:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

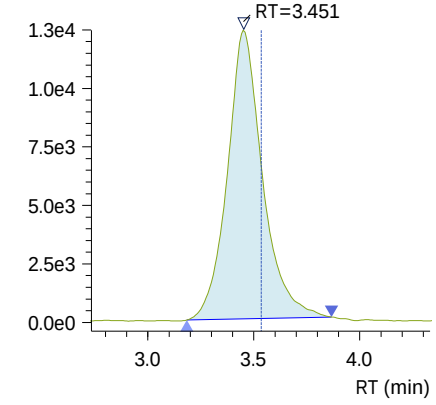
Perchlorate

Conc 11.6731
R#1 33.80 (34.10)

Q 99.00>83.00 (-) A=421992 3.65e4



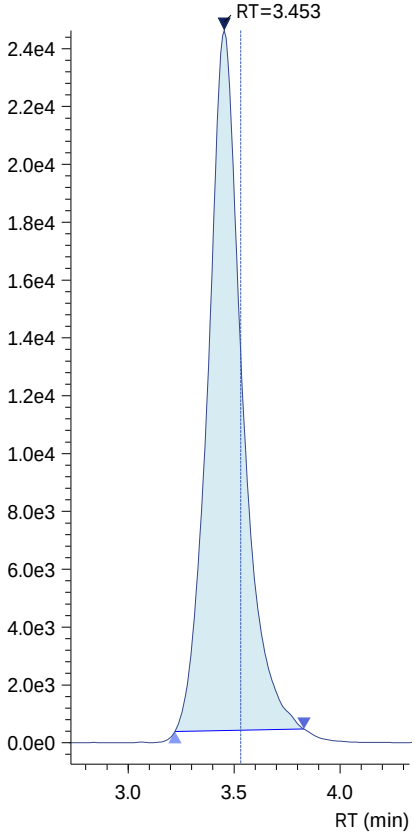
R1 101.00>85.00 (-) A=142634 1.25e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272920 2.46e4



Insight Report

Printed at 5/29/2024 3:28:50 PM

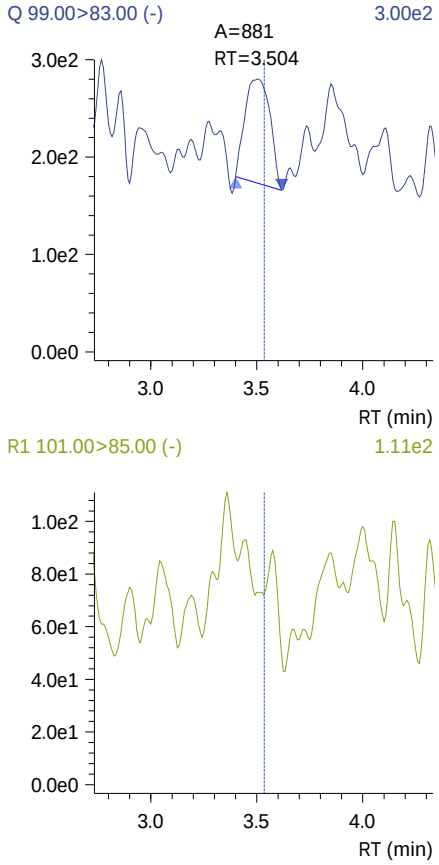
IB

Sample ID: IB
Date Acquired: 5/29/2024 1:55:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	249596	----	ng/mL	101.00 >85.00	0.00	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.451	249596	249596	1.0000	ng/mL	----	----	

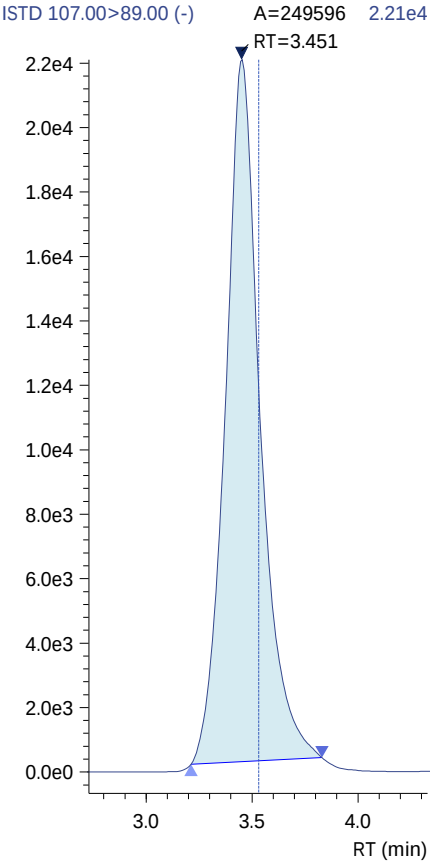
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 3:28:50 PM

EQ2400252-01

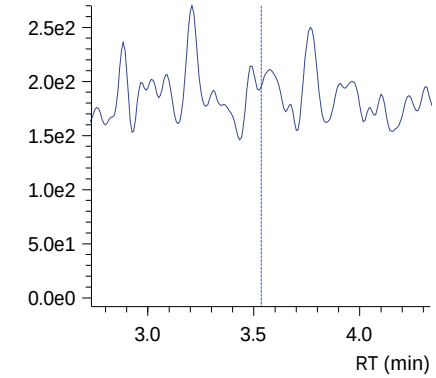
Sample ID: EQ2400252-01
Date Acquired: 5/29/2024 2:01:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	282832	----	ng/mL	101.00 >85.00	0.00	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.452	282832	282832	1.0000	ng/mL	----	----	

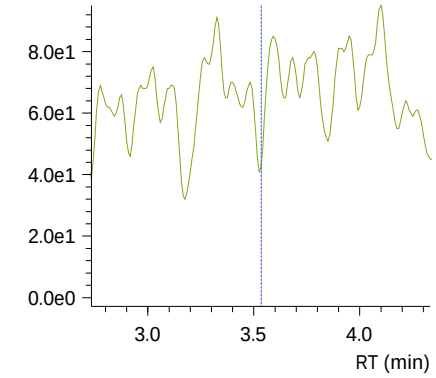
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.70e2



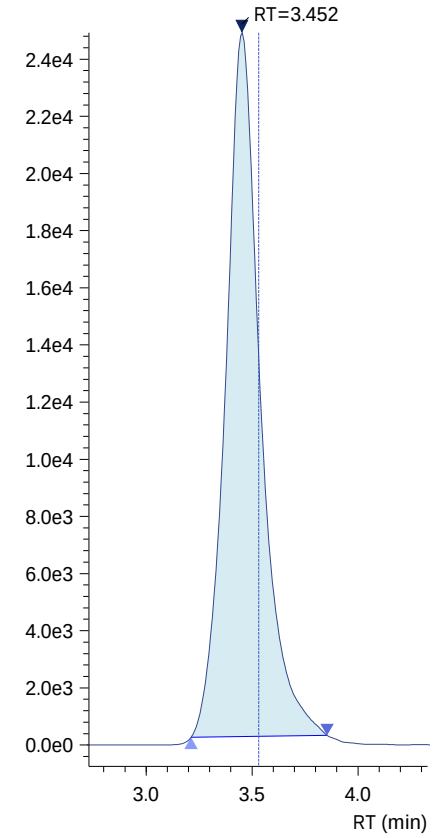
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282832 2.49e4



Insight Report

Printed at 5/29/2024 3:28:50 PM

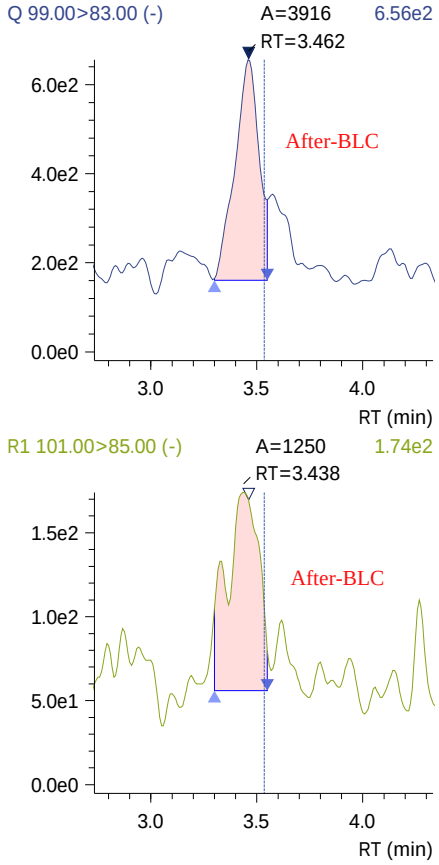
EQ2400252-02

Sample ID: EQ2400252-02
Date Acquired: 5/29/2024 2:06:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-007.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.462	3916	272953	0.1083	ng/mL	101.00 >85.00	31.93	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.450	272953	272953	1.0000	ng/mL	----	----	

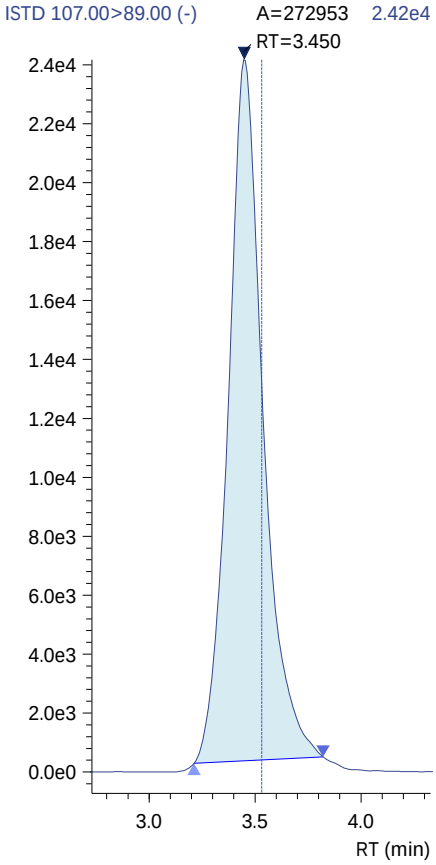
Perchlorate

Conc 0.1083
R#1 31.93 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 5:10:57 PM

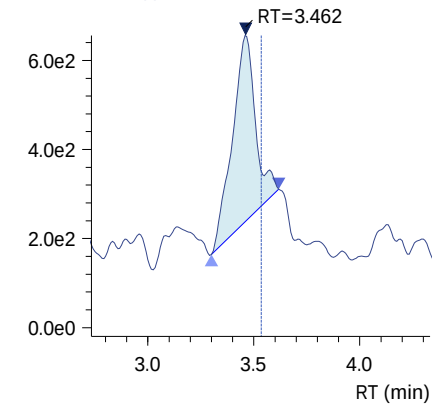
EQ2400252-02

Sample ID: EQ2400252-02
Date Acquired: 5/29/2024 2:06:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-007.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

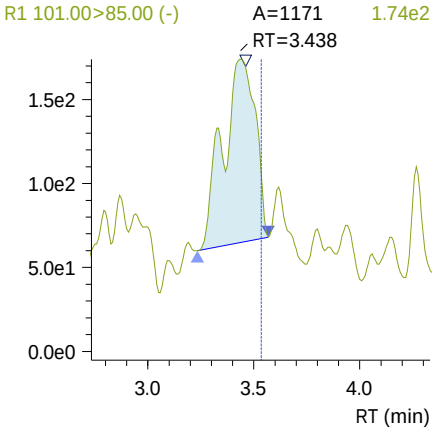
Perchlorate

Conc 0.0878
R#1 36.90 (34.10)

Q 99.00>83.00 (-) A=3174 6.56e2



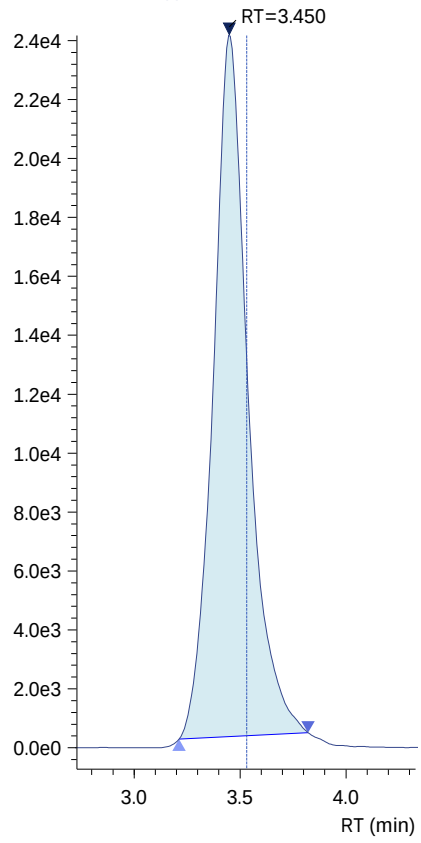
R1 101.00>85.00 (-) A=1171 1.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272953 2.42e4



Insight Report

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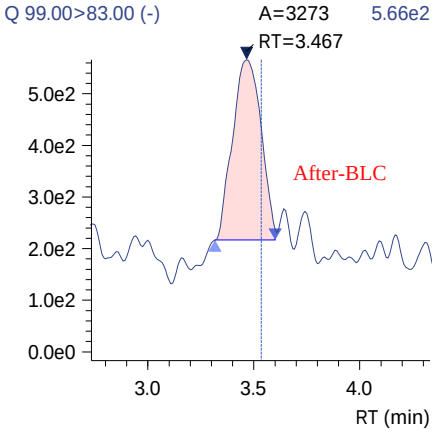
EQ2400252-03

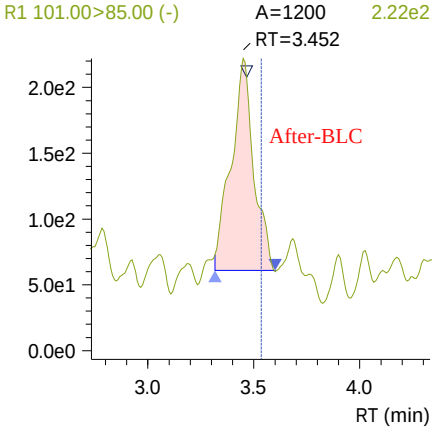
Sample ID: EQ2400252-03
Date Acquired: 5/29/2024 2:12:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-008.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.467	3273	268713	0.0920	ng/mL	101.00 >85.00	36.65	23.63 -43.88
Sodium Perchlorate-18O4 _IS	Auto	3.450	2687 13	268713	1.0000	ng/mL	----	----	

Perchlorate

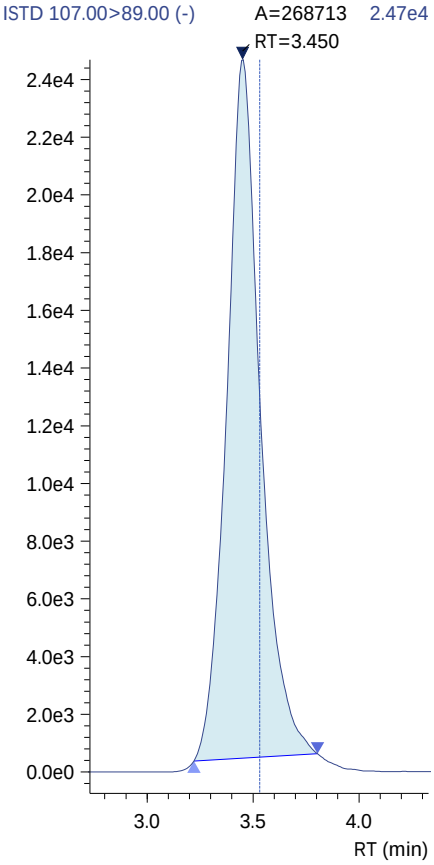
Conc 0.0920
R#1 36.65 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 5:10:57 PM

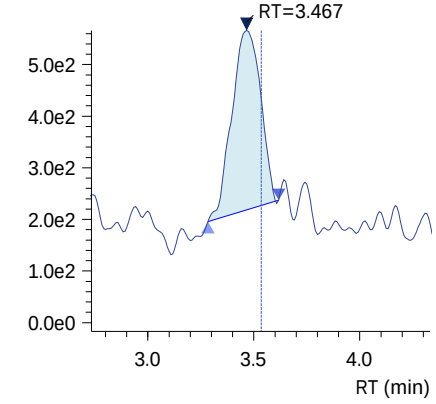
EQ2400252-03

Sample ID: EQ2400252-03
Date Acquired: 5/29/2024 2:12:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-008.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

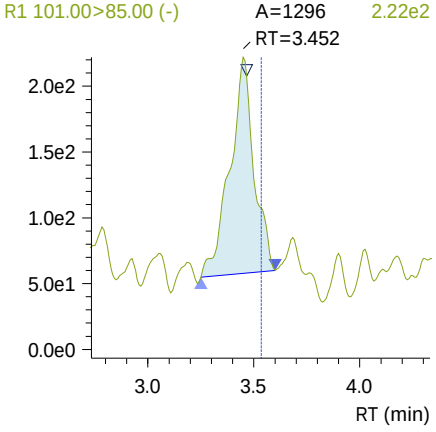
Perchlorate

Conc 0.0923
R#1 39.47 (34.10)

Q 99.00>83.00 (-) A=3284 5.66e2



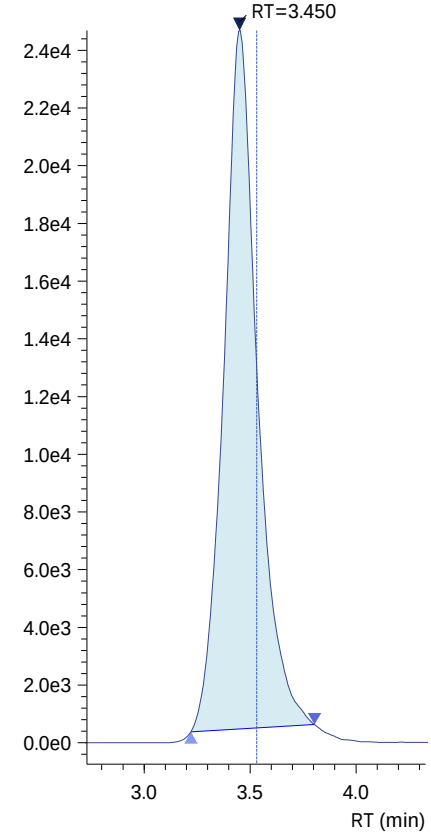
R1 101.00>85.00 (-) A=1296 2.22e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=268713 2.47e4



Insight Report

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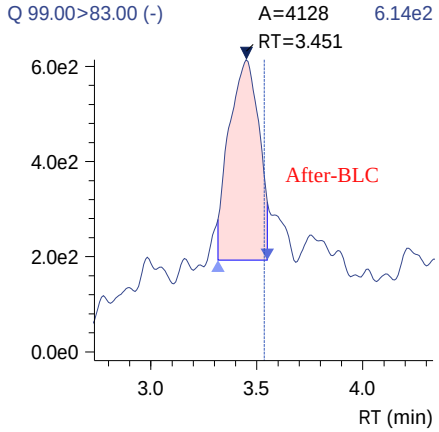
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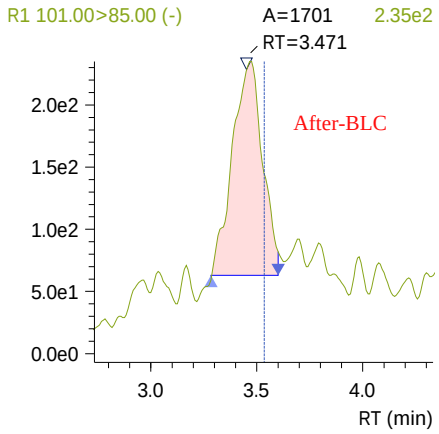
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Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	4128	270730	0.1151	ng/mL	101.00 >85.00	41.21	23.63 -43.88
Sodium Perchlorate-18O4 _IS	Auto	3.450	2707 30	270730	1.0000	ng/mL	----	----	

Perchlorate

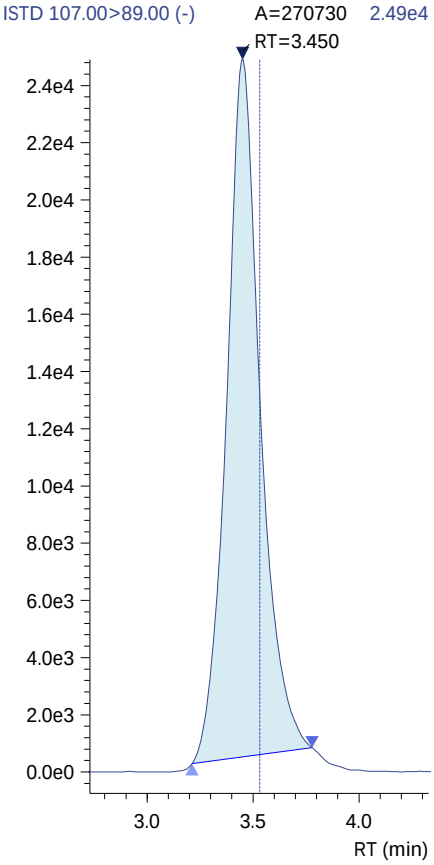
Conc 0.1151
R#1 41.21 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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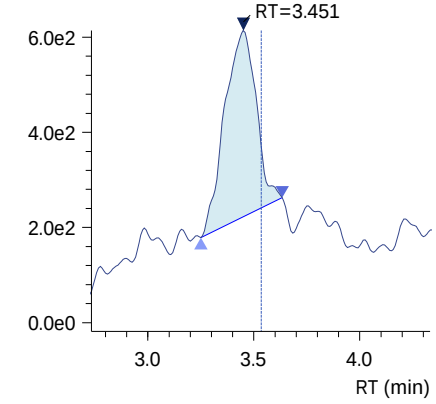
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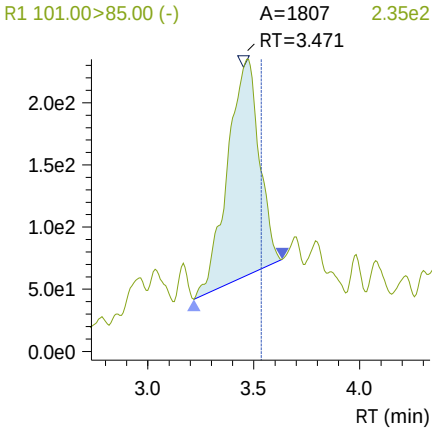
Perchlorate

Conc 0.1135
R#1 44.38 (34.10)

Q 99.00>83.00 (-) A=4071 6.14e2



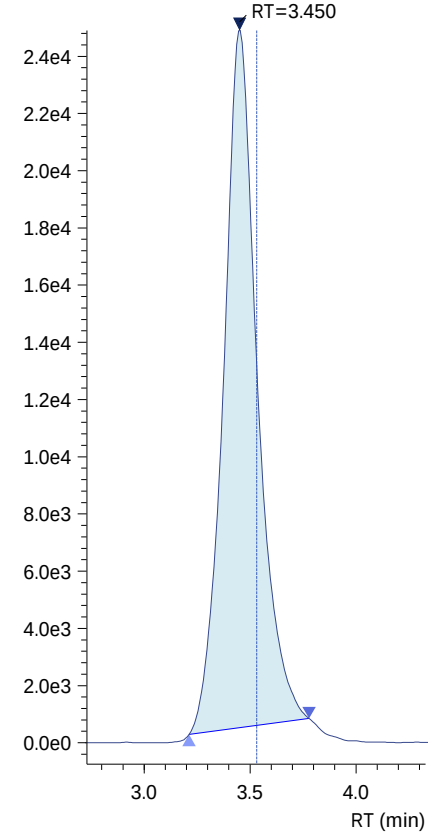
R1 101.00>85.00 (-) A=1807 2.35e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=270730 2.49e4



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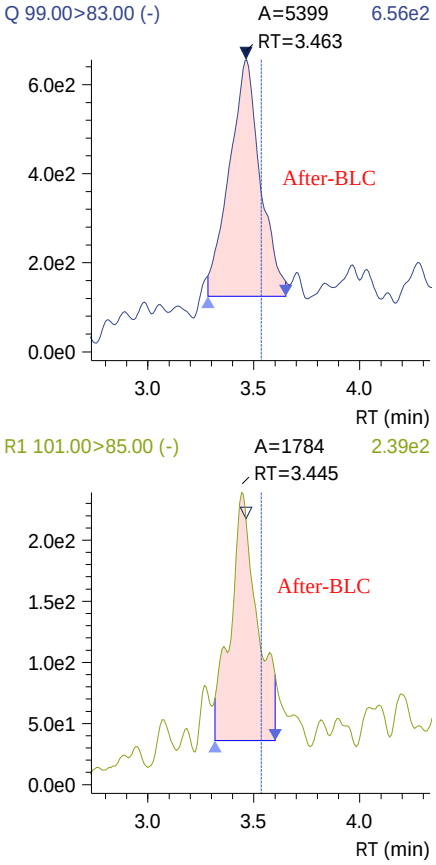
E2400542-02

Sample ID: E2400542-02
Date Acquired: 5/29/2024 2:23:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-010.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	5399	272482	0.1496	ng/mL	101.00 >85.00	33.05	23.63 -43.88
Sodium Perchlorate-18O4 _IS	Auto	3.452	272482	272482	1.0000	ng/mL	----	----	

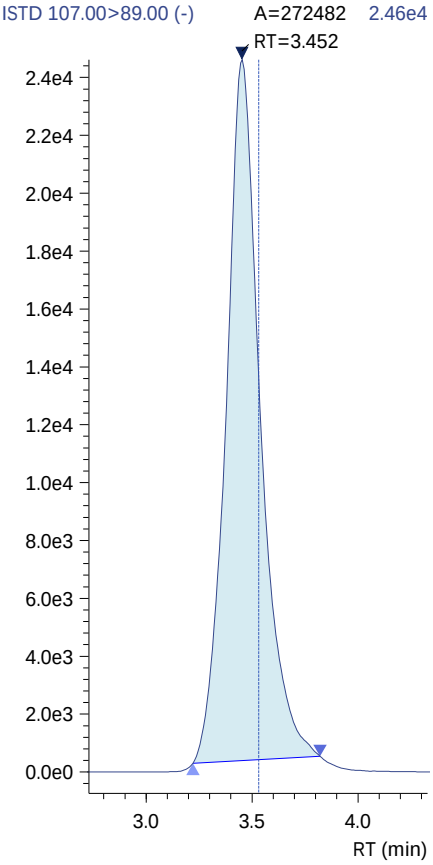
Perchlorate

Conc 0.1496
R#1 33.05 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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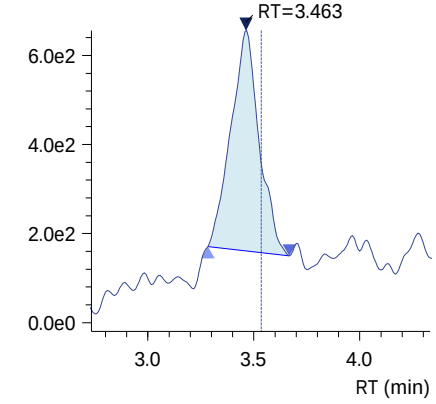
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Acquired by: System Administrator
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Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

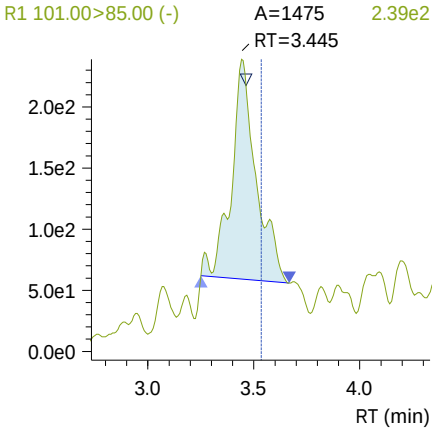
Perchlorate

Conc 0.1278
R#1 31.98 (34.10)

Q 99.00>83.00 (-) A=4611 6.56e2



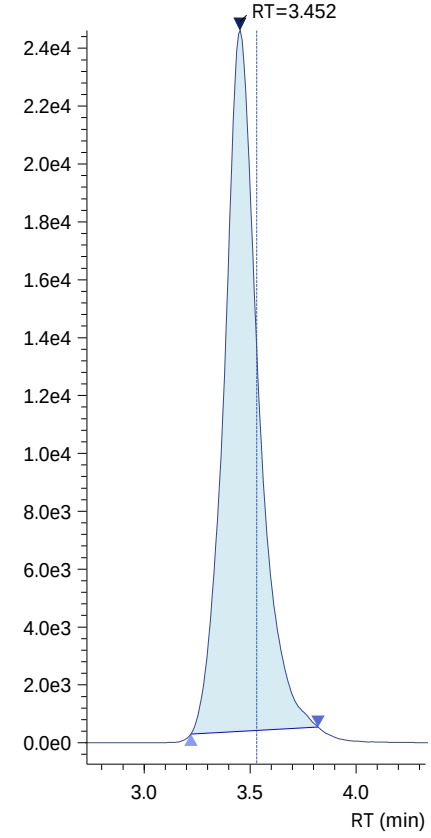
R1 101.00>85.00 (-) A=1475 2.39e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272482 2.46e4



Insight Report

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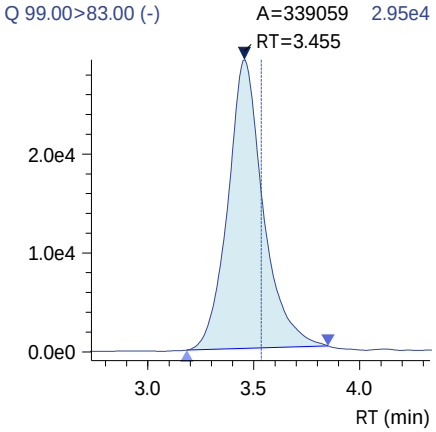
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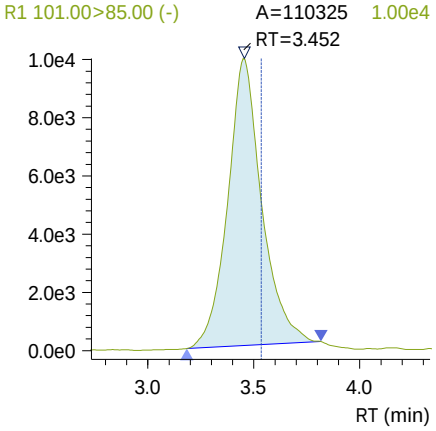
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Date Acquired: 5/29/2024 2:28:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-011.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	339059	272001	9.4107	ng/mL	101.00 >85.00	32.54	23.63 -43.88
Sodium Perchlorate-18O4_IS	Auto	3.452	272001	272001	1.0000	ng/mL	----	----	

Perchlorate

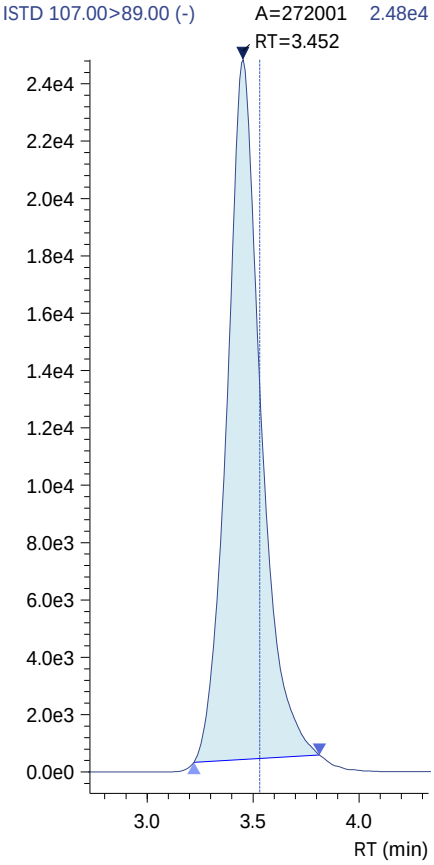
Conc 9.4107
R#1 32.54 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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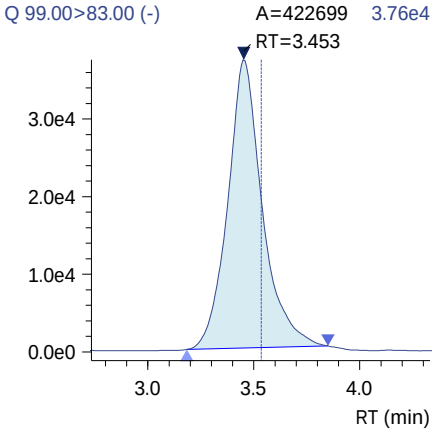
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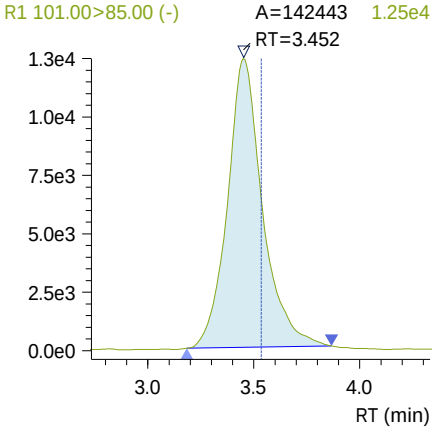
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Date Acquired: 5/29/2024 2:34:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240529\20240529-012.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	422699 3.76e4	291758	10.9 377	ng/mL	101.00 >85.00	33.70	23.63 -43.88
Sodium Perchlorate-18O4_IS	M	3.452	291758	291758	1.0000	ng/mL	----	----	

Perchlorate

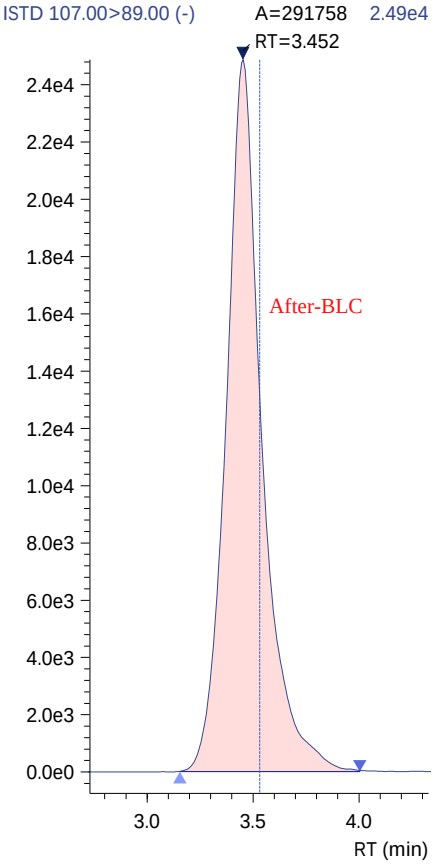
Conc 10.9377
R#1 33.70 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 5:21:43 PM

Method File: I:\LCMS01\DATA\20240529\20240529.lcm
Project File: I:\LCMS01\DATA\20240529\20240529.damlp

CCV

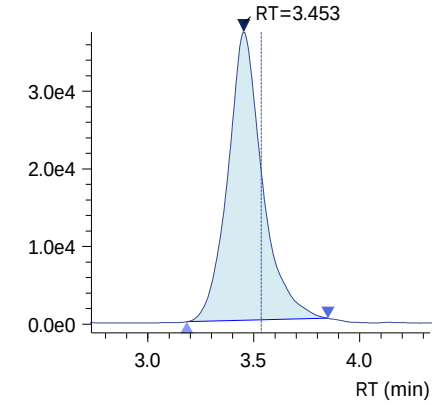
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Date Acquired: 5/29/2024 2:34:25 PM
Acquired by: System Administrator
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

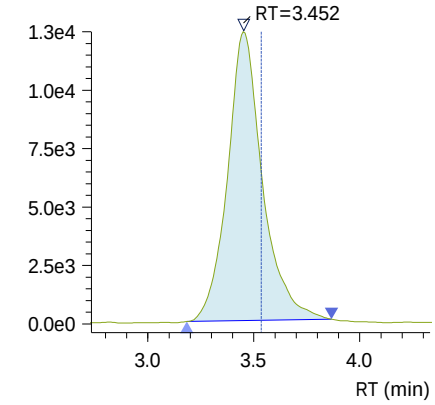
Conc 12.0072

R#1 33.70 (34.10)

Q 99.00>83.00 (-) A=422699 3.76e4



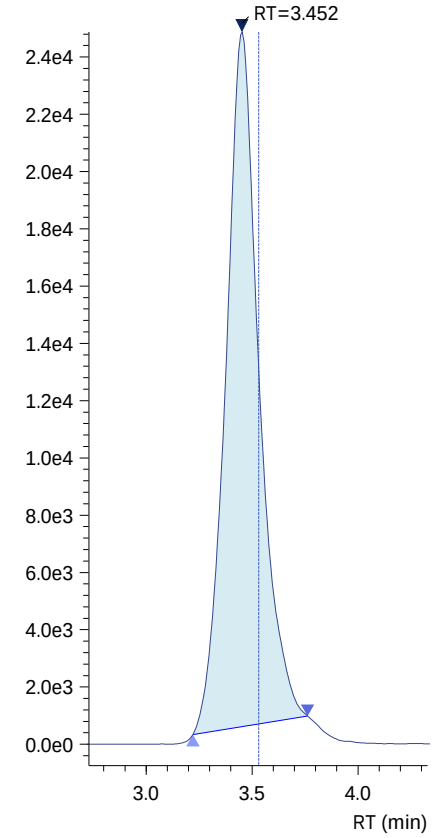
R1 101.00>85.00 (-) A=142443 1.25e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=265771 2.49e4



Insight Report

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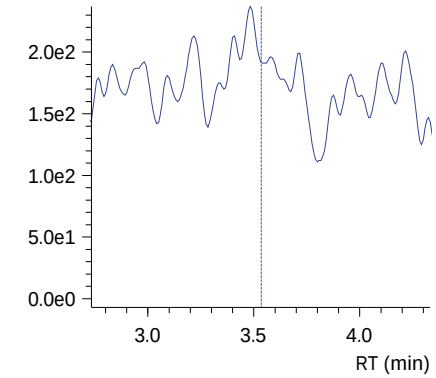
IB

Sample ID: IB
Date Acquired: 5/29/2024 2:39:54 PM
Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

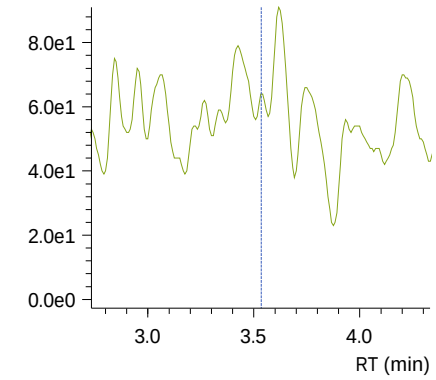
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.37e2



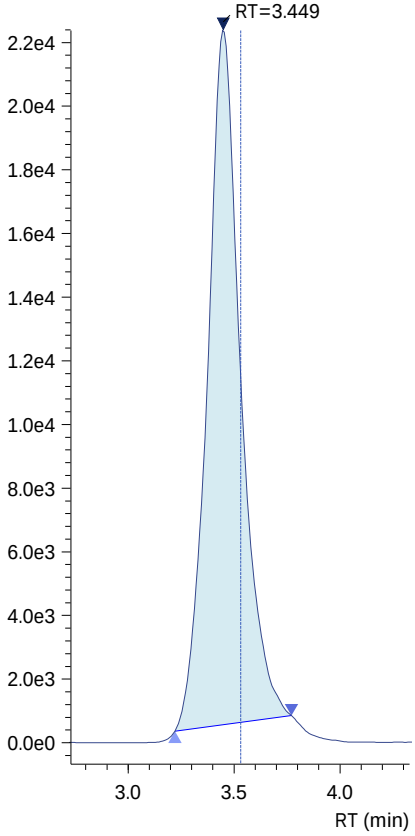
R1 101.00>85.00 (-) 9.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=238531 2.24e4
RT=3.449



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WorkOrder: HS24051276

Groundwater Treatment Plant Quarterly Effluent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

22-Jun-2024

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
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HS24051276 Groundwater Treatment Plant Quarterly Effluent Samples COVER PAGE

ALS WO# HS24051276

HS24051276 Groundwater Treatment Plant Quarterly Effluent Samples Final

ALS WO# HS24051276

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June 07, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051276**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Effluent Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on May 22, 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: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS24051276

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051276-01	LH18/24-SP650_052124	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051276-02	LH18/24-SP650_052124_AIX	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051276-03	Trip Blank	Water		21-May-2024 00:00	22-May-2024 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS24051276

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 212606

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R467761

Sample ID: LH18/24-SP650_052124 (HS24051276-01)

- Surrogates failed outside control limits high. Sample is ND.

Sample ID: Trip Blank (HS24051276-03)

- Surrogates failed outside control limits high. Sample is ND.

Metals by Method SW7470A

Batch ID: 212789

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 212449

Sample ID: LH18/24-SP650_052124 (HS24051276-01MSD)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Sodium.

WetChemistry by Method SW9056

Batch ID: R467970

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E410.4

Batch ID: R467960

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E1664A

Batch ID: R467493

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: LH18/24-SP650_052124 Lab ID:HS24051276-01
Collection Date: 21-May-2024 13:00 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	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 17:10
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-May-2024 17:10
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-May-2024 17:10
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 17:10
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-May-2024 17:10
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 17:10
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: LH18/24-SP650_052124 Lab ID:HS24051276-01
Collection Date: 21-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
cis-1,2-Dichloroethene	**1.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	24-May-2024 17:10
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	24-May-2024 17:10
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 17:10
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 17:10
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 17:10
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:10
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:10
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*24-May-2024 17:10*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 17:10*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 17:10*
Surr: Toluene-d8	*113*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 17:10*
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 28-May-2024		Analyst: MBG
1,4-Dioxane	**0.93**	a	**0.10**	**0.040**	**0.30**	**ug/L**	10	31-May-2024 16:16
Surr: 2-Fluorobiphenyl	*95.4*			**0**	*40-140*	*%REC*	*10*	*31-May-2024 16:16*
Surr: 4-Terphenyl-d14	*96.8*			**0**	*40-140*	*%REC*	*10*	*31-May-2024 16:16*
Surr: Nitrobenzene-d5	*90.3*			**0**	*40-140*	*%REC*	*10*	*31-May-2024 16:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: LH18/24-SP650_052124 Lab ID:HS24051276-01
Collection Date: 21-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-May-2024		Analyst: JC
Aluminum	**0.00654**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	30-May-2024 11:58
Antimony	0.0100	U	0.000400	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Arsenic	0.0100	U	0.000400	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Barium	**0.217**		**0.00190**	**0.0100**	**0.00500**	**mg/L**	1	30-May-2024 11:58
Beryllium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	30-May-2024 11:58
Cadmium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	30-May-2024 11:58
Calcium	**21.8**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	30-May-2024 11:58
Chromium	**0.000894**	J	**0.000400**	**0.0100**	**0.00500**	**mg/L**	1	30-May-2024 11:58
Cobalt	0.0100	U	0.000100	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Iron	**0.0840**	J	**0.0120**	**1.00**	**0.200**	**mg/L**	1	30-May-2024 11:58
Lead	0.0100	U	0.000600	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Magnesium	**10.5**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	30-May-2024 11:58
Manganese	**0.0470**		**0.000700**	**0.0100**	**0.00500**	**mg/L**	1	30-May-2024 11:58
Nickel	0.0100	U	0.000600	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Potassium	**2.07**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	30-May-2024 11:58
Selenium	0.0100	U	0.00110	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Silver	**0.000378**	J	**0.000200**	**0.0100**	**0.00500**	**mg/L**	1	30-May-2024 11:58
Sodium	**532**		**0.700**	**50.0**	**10.0**	**mg/L**	50	30-May-2024 12:35
Thallium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	30-May-2024 11:58
Vanadium	0.0100	U	0.000600	0.0100	0.00500	mg/L	1	30-May-2024 11:58
Zinc	**0.00386**	J	**0.00200**	**0.0100**	**0.00500**	**mg/L**	1	30-May-2024 11:58
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 30-May-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	30-May-2024 19:59
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: MC
Oil and Grease	1.00	U	0.610	1.00	2.00	mg/L	1	23-May-2024 07:00
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**60.0**	a	**5.00**	**15.0**	**15.0**	**mg/L**	1	29-May-2024 16:30
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**988**		**4.00**	**5.00**	**10.0**	**mg/L**	20	29-May-2024 11:05
Sulfate	**40.1**		**0.200**	**0.250**	**0.500**	**mg/L**	1	29-May-2024 10:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: LH18/24-SP650_052124_AIX Lab ID:HS24051276-02
Collection Date: 21-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: Trip Blank Lab ID:HS24051276-03
Collection Date: 21-May-2024 00:00 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	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 16:05
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-May-2024 16:05
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-May-2024 16:05
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 16:05
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-May-2024 16:05
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:05
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS24051276
Sample ID: Trip Blank Lab ID:HS24051276-03
Collection Date: 21-May-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	24-May-2024 16:05
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 16:05
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 16:05
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:05
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:05
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Trichlorofluoromethane	**2.4**		**0.30**	**1.0**	**1.0**	**ug/L**	1	24-May-2024 16:05
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:05
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*24-May-2024 16:05*
Surr: 4-Bromofluorobenzene	*113*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 16:05*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 16:05*
Surr: Toluene-d8	*114*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 16:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Batch ID: 212449 **Start Date:** 23 May 2024 15:30 **End Date:** 23 May 2024 15:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051276-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 212606 **Start Date:** 28 May 2024 13:20 **End Date:** 28 May 2024 13:20
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051276-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 212789 **Start Date:** 30 May 2024 10:30 **End Date:** 30 May 2024 10:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051276-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 212449 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00		23 May 2024 15:30	30 May 2024 12:35	50
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00		23 May 2024 15:30	30 May 2024 11:58	1
Batch ID: 212606 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00		28 May 2024 13:20	31 May 2024 16:16	10
Batch ID: 212789 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00		30 May 2024 10:30	30 May 2024 19:59	1
Batch ID: R467493 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00			23 May 2024 07:00	1
Batch ID: R467761 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00			24 May 2024 17:10	1
HS24051276-03	Trip Blank	21 May 2024 00:00			24 May 2024 16:05	1
Batch ID: R467960 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00			29 May 2024 16:30	1
Batch ID: R467970 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00			29 May 2024 11:05	20
HS24051276-01	LH18/24-SP650_052124	21 May 2024 13:00			29 May 2024 10:59	1
Batch ID: R468746 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24051276-02	LH18/24-SP650_052124_AIX	21 May 2024 13:00			07 Jun 2024 09:22	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-212449** Units: **mg/L** Analysis Date: **29-May-2024 15:45**
Client ID: Run ID: **ICPMS07_467901** SeqNo: **8036160** PrepDate: **23-May-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	0.0100	0.00500								U
Arsenic	0.0100	0.00500								U
Barium	0.0100	0.00500								U
Beryllium	0.0100	0.00200								U
Cadmium	0.0100	0.00200								U
Calcium	1.00	0.500								U
Chromium	0.0100	0.00500								U
Cobalt	0.0100	0.00500								U
Iron	1.00	0.200								U
Lead	0.0100	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.0100	0.00500								U
Nickel	0.0100	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.0100	0.00500								U
Silver	0.0100	0.00500								U
Sodium	1.00	0.200								U
Thallium	0.0100	0.00200								U
Vanadium	0.0100	0.00500								U
Zinc	0.0100	0.00500								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-212449** Units: **mg/L** Analysis Date: **30-May-2024 12:18**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037768** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1018	0.0100	0.1	0	102	84 - 117				
Antimony	0.0488	0.00500	0.05	0	97.6	85 - 117				
Arsenic	0.04751	0.00500	0.05	0	95.0	84 - 116				
Barium	0.04727	0.00500	0.05	0	94.5	86 - 114				
Beryllium	0.04652	0.00200	0.05	0	93.0	83 - 121				
Cadmium	0.04553	0.00200	0.05	0	91.1	87 - 115				
Calcium	4.892	0.500	5	0	97.8	87 - 118				
Chromium	0.04799	0.00500	0.05	0	96.0	85 - 116				
Cobalt	0.04821	0.00500	0.05	0	96.4	86 - 115				
Iron	4.809	0.200	5	0	96.2	87 - 118				
Lead	0.04724	0.00500	0.05	0	94.5	88 - 115				
Magnesium	4.894	0.200	5	0	97.9	83 - 118				
Manganese	0.04932	0.00500	0.05	0	98.6	87 - 115				
Nickel	0.04837	0.00500	0.05	0	96.7	85 - 117				
Potassium	4.873	0.200	5	0	97.5	87 - 115				
Selenium	0.04742	0.00500	0.05	0	94.8	80 - 120				
Silver	0.04723	0.00500	0.05	0	94.5	85 - 116				
Sodium	4.967	0.200	5	0	99.3	85 - 117				
Vanadium	0.04759	0.00500	0.05	0	95.2	86 - 115				
Zinc	0.05094	0.00500	0.05	0	102	83 - 119				

LCS Sample ID: **LCS-212449** Units: **mg/L** Analysis Date: **30-May-2024 12:32**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037802** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04642	0.00200	0.05	0	92.8	82 - 116				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24051276-01MS** Units: **mg/L** Analysis Date: **30-May-2024 12:03**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037724** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1173	0.0100	0.1	0.006543	111	84 - 117				
Antimony	0.04945	0.00500	0.05	0.000247	98.4	85 - 117				
Arsenic	0.05056	0.00500	0.05	0.000207	101	84 - 116				
Barium	0.2632	0.00500	0.05	0.2174	91.6	86 - 114				O
Beryllium	0.0467	0.00200	0.05	0.000013	93.4	83 - 121				
Cadmium	0.04761	0.00200	0.05	0.000004	95.2	87 - 115				
Calcium	26.76	0.500	5	21.81	99.0	87 - 118				O
Chromium	0.04962	0.00500	0.05	0.000894	97.5	85 - 116				
Cobalt	0.04897	0.00500	0.05	0.000093	97.8	86 - 115				
Iron	4.932	0.200	5	0.08396	97.0	87 - 118				
Lead	0.04892	0.00500	0.05	0.000028	97.8	88 - 115				
Magnesium	15.38	0.200	5	10.49	97.9	83 - 118				
Manganese	0.09686	0.00500	0.05	0.04696	99.8	87 - 115				
Nickel	0.04822	0.00500	0.05	0.000362	95.7	85 - 117				
Potassium	7.026	0.200	5	2.067	99.2	87 - 115				
Selenium	0.04855	0.00500	0.05	0.00007	97.0	80 - 120				
Silver	0.04734	0.00500	0.05	0.000378	93.9	85 - 116				
Sodium	533	0.200	5	527.3	114	85 - 117				EO
Thallium	0.04408	0.00200	0.05	0.000048	88.1	82 - 116				
Vanadium	0.04973	0.00500	0.05	0.000251	99.0	86 - 115				
Zinc	0.05384	0.00500	0.05	0.003855	100.0	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24051276-01MSD** Units: **mg/L** Analysis Date: **30-May-2024 12:05**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037725** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1202	0.0100	0.1	0.006543	114	84 - 117	0.1173	2.49	20	
Antimony	0.05009	0.00500	0.05	0.000247	99.7	85 - 117	0.04945	1.29	20	
Arsenic	0.05088	0.00500	0.05	0.000207	101	84 - 116	0.05056	0.631	20	
Barium	0.2694	0.00500	0.05	0.2174	104	86 - 114	0.2632	2.33	20	O
Beryllium	0.04623	0.00200	0.05	0.000013	92.4	83 - 121	0.0467	1	20	
Cadmium	0.04836	0.00200	0.05	0.000004	96.7	87 - 115	0.04761	1.56	20	
Calcium	27.18	0.500	5	21.81	108	87 - 118	26.76	1.58	20	O
Chromium	0.05057	0.00500	0.05	0.000894	99.4	85 - 116	0.04962	1.9	20	
Cobalt	0.04914	0.00500	0.05	0.000093	98.1	86 - 115	0.04897	0.34	20	
Iron	5.026	0.200	5	0.08396	98.8	87 - 118	4.932	1.89	20	
Lead	0.04989	0.00500	0.05	0.000028	99.7	88 - 115	0.04892	1.97	20	
Magnesium	15.73	0.200	5	10.49	105	83 - 118	15.38	2.21	20	
Manganese	0.09738	0.00500	0.05	0.04696	101	87 - 115	0.09686	0.53	20	
Nickel	0.04875	0.00500	0.05	0.000362	96.8	85 - 117	0.04822	1.08	20	
Potassium	7.147	0.200	5	2.067	102	87 - 115	7.026	1.71	20	
Selenium	0.04901	0.00500	0.05	0.00007	97.9	80 - 120	0.04855	0.941	20	
Silver	0.04748	0.00500	0.05	0.000378	94.2	85 - 116	0.04734	0.3	20	
Sodium	542.9	0.200	5	527.3	313	85 - 117	533	1.85	20	SEO
Thallium	0.04576	0.00200	0.05	0.000048	91.4	82 - 116	0.04408	3.75	20	
Vanadium	0.05076	0.00500	0.05	0.000251	101	86 - 115	0.04973	2.06	20	
Zinc	0.05495	0.00500	0.05	0.003855	102	83 - 119	0.05384	2.05	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24051276-01PDS** Units: **mg/L** Analysis Date: **30-May-2024 12:08**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037726** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1033	0.0100	0.1	0.006543	96.7	80 - 120				
Antimony	0.09918	0.00500	0.1	0.000247	98.9	80 - 120				
Arsenic	0.09744	0.00500	0.1	0.000207	97.2	80 - 120				
Barium	0.3038	0.00500	0.1	0.2174	86.4	80 - 120				
Beryllium	0.08877	0.00200	0.1	0.000013	88.8	80 - 120				
Cadmium	0.09198	0.00200	0.1	0.000004	92.0	80 - 120				
Calcium	31.03	0.500	10	21.81	92.3	80 - 120				
Chromium	0.09618	0.00500	0.1	0.000894	95.3	80 - 120				
Cobalt	0.09491	0.00500	0.1	0.000093	94.8	80 - 120				
Iron	9.687	0.200	10	0.08396	96.0	80 - 120				
Lead	0.09519	0.00500	0.1	0.000028	95.2	80 - 120				
Magnesium	19.97	0.200	10	10.49	94.8	80 - 120				
Manganese	0.1433	0.00500	0.1	0.04696	96.3	80 - 120				
Nickel	0.09252	0.00500	0.1	0.000362	92.2	80 - 120				
Potassium	11.76	0.200	10	2.067	97.0	80 - 120				
Selenium	0.09534	0.00500	0.1	0.00007	95.3	80 - 120				
Silver	0.09147	0.00500	0.1	0.000378	91.1	80 - 120				
Thallium	0.0893	0.00200	0.1	0.000048	89.3	80 - 120				
Vanadium	0.09838	0.00500	0.1	0.000251	98.1	80 - 120				
Zinc	0.09808	0.00500	0.1	0.003855	94.2	80 - 120				

PDS Sample ID: **HS24051276-01PDS** Units: **mg/L** Analysis Date: **30-May-2024 12:40**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037815** PrepDate: **23-May-2024** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1036	10.0	500	531.6	101	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24051276-01SD** Units: **mg/L** Analysis Date: **30-May-2024 12:00**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037723** PrepDate: **23-May-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.006543	0	10	U
Antimony	0.0500	0.0250					0.000247	0	10	U
Arsenic	0.0500	0.0250					0.000207	0	10	U
Barium	0.2196	0.0250					0.2174	1.05	10	
Beryllium	0.0500	0.0100					0.000013	0	10	U
Cadmium	0.0500	0.0100					0.000004	0	10	U
Calcium	21.18	2.50					21.81	2.88	10	
Chromium	0.0500	0.0250					0.000894	0	10	U
Cobalt	0.0500	0.0250					0.000093	0	10	U
Iron	0.08765	1.00					0.08396	0	10	J
Lead	0.0500	0.0250					0.000028	0	10	U
Magnesium	10.5	1.00					10.49	0.13	10	
Manganese	0.04788	0.0250					0.04696	1.97	10	
Nickel	0.0500	0.0250					0.000362	0	10	U
Potassium	2.027	1.00					2.067	1.94	10	
Selenium	0.0500	0.0250					0.00007	0	10	U
Silver	0.0500	0.0250					0.000378	0	10	U
Thallium	0.0500	0.0100					0.000048	0	10	U
Vanadium	0.0500	0.0250					0.000251	0	10	U
Zinc	0.0500	0.0250					0.003855	0	10	U

SD Sample ID: **HS24051276-01SD** Units: **mg/L** Analysis Date: **30-May-2024 12:37**
Client ID: **LH18/24-SP650_052124** Run ID: **ICPMS07_468021** SeqNo: **8037814** PrepDate: **23-May-2024** DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	554.8	50.0					531.6	4.38	10	

The following samples were analyzed in this batch: HS24051276-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212789 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-212789** Units: **mg/L** Analysis Date: **30-May-2024 19:49**
Client ID: Run ID: **HG04_468074** SeqNo: **8039301** PrepDate: **30-May-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-212789** Units: **mg/L** Analysis Date: **30-May-2024 19:55**
Client ID: Run ID: **HG04_468074** SeqNo: **8039304** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00448	0.000200	0.005	0	89.6	82 - 119				

MS Sample ID: **HS24051277-01MS** Units: **mg/L** Analysis Date: **30-May-2024 20:08**
Client ID: Run ID: **HG04_468074** SeqNo: **8039308** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.000200	0.005	0.00002300	96.1	82 - 119				

MSD Sample ID: **HS24051277-01MSD** Units: **mg/L** Analysis Date: **30-May-2024 20:09**
Client ID: Run ID: **HG04_468074** SeqNo: **8039309** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00473	0.000200	0.005	0.00002300	94.1	82 - 119	0.004830	2.09	20	

The following samples were analyzed in this batch: HS24051276-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: 212606 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:23**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041735** PrepDate: **28-May-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	*0.06088*	*0*	*0.08*	*0*	*76.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07382*	*0*	*0.08*	*0*	*92.3*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06095*	*0*	*0.08*	*0*	*76.2*	*40 - 140*				

LCS Sample ID: **LCS-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:41**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041736** PrepDate: **28-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0702	0.030	0.08	0	87.8	40 - 140				
Surr: 2-Fluorobiphenyl	*0.06549*	*0*	*0.08*	*0*	*81.9*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0699*	*0*	*0.08*	*0*	*87.4*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0742*	*0*	*0.08*	*0*	*92.7*	*40 - 140*				

LCSD Sample ID: **LCSD-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:58**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041737** PrepDate: **28-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07174	0.030	0.08	0	89.7	40 - 140	0.0702	2.18	20	
Surr: 2-Fluorobiphenyl	*0.06576*	*0*	*0.08*	*0*	*82.2*	*40 - 140*	*0.06549*	*0.404*	*20*	
Surr: 4-Terphenyl-d14	*0.06773*	*0*	*0.08*	*0*	*84.7*	*40 - 140*	*0.0699*	*3.16*	*20*	
Surr: Nitrobenzene-d5	*0.06787*	*0*	*0.08*	*0*	*84.8*	*40 - 140*	*0.0742*	*8.9*	*20*	

The following samples were analyzed in this batch: HS24051276-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240524** Units: **ug/L** Analysis Date: **24-May-2024 14:18**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031898** 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	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240524** Units: **ug/L** Analysis Date: **24-May-2024 14:18**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031898** 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	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.86*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.8*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*54.71*	*35*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*55.64*	*35*	*50*	*0*	*111*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:13**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031896** 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	18.24	1.0	20	0	91.2	78 - 124				
1,1,1-Trichloroethane	18.26	1.0	20	0	91.3	74 - 131				
1,1,2,2-Tetrachloroethane	20.93	1.0	20	0	105	71 - 121				
1,1,2-Trichloroethane	20.59	1.0	20	0	103	80 - 119				
1,1-Dichloroethane	19.25	1.0	20	0	96.3	77 - 125				
1,1-Dichloroethene	17.06	1.0	20	0	85.3	71 - 131				
1,1-Dichloropropene	17.97	1.0	20	0	89.9	78 - 125				
1,2,3-Trichlorobenzene	18.86	1.0	20	0	94.3	69 - 129				
1,2,3-Trichloropropane	20.48	1.0	20	0	102	73 - 122				
1,2,4-Trichlorobenzene	18.54	1.0	20	0	92.7	69 - 130				
1,2,4-Trimethylbenzene	19.5	1.0	20	0	97.5	76 - 124				
1,2-Dibromo-3-chloropropane	19.27	1.0	20	0	96.4	62 - 128				
1,2-Dibromoethane	19.85	1.0	20	0	99.3	77 - 121				
1,2-Dichlorobenzene	20.78	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	19.33	1.0	20	0	96.7	73 - 128				
1,2-Dichloropropane	19.45	1.0	20	0	97.2	78 - 122				
1,3,5-Trimethylbenzene	19.89	1.0	20	0	99.4	75 - 124				
1,3-Dichlorobenzene	20.55	1.0	20	0	103	80 - 119				
1,3-Dichloropropane	20.14	1.0	20	0	101	80 - 119				
1,4-Dichlorobenzene	20.53	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	17.91	1.0	20	0	89.5	60 - 139				
2-Butanone	40.67	2.0	40	0	102	56 - 143				
2-Chlorotoluene	18.97	1.0	20	0	94.8	79 - 122				
2-Hexanone	37.86	2.0	40	0	94.6	57 - 139				
4-Chlorotoluene	19.24	1.0	20	0	96.2	78 - 122				
4-Isopropyltoluene	19.72	1.0	20	0	98.6	77 - 127				
4-Methyl-2-pentanone	38.08	2.0	40	0	95.2	67 - 130				
Acetone	45.14	2.0	40	0	113	39 - 160				
Benzene	19.18	1.0	20	0	95.9	79 - 120				
Bromobenzene	18.58	1.0	20	0	92.9	80 - 120				
Bromochloromethane	19.51	1.0	20	0	97.6	78 - 123				
Bromodichloromethane	17.55	1.0	20	0	87.8	79 - 125				
Bromoform	17.37	1.0	20	0	86.8	66 - 130				
Bromomethane	21.94	1.0	20	0	110	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:13**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031896** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	34.68	2.0	40	0	86.7	64 - 133				
Carbon tetrachloride	17.43	1.0	20	0	87.1	72 - 136				
Chlorobenzene	20.02	1.0	20	0	100	82 - 118				
Chloroethane	17.44	1.0	20	0	87.2	60 - 138				
Chloroform	19.25	1.0	20	0	96.2	79 - 124				
Chloromethane	18.47	1.0	20	0	92.3	50 - 139				
cis-1,2-Dichloroethene	17.33	1.0	20	0	86.6	78 - 123				
cis-1,3-Dichloropropene	18.37	1.0	20	0	91.9	75 - 124				
Dibromochloromethane	18.63	1.0	20	0	93.2	74 - 126				
Dibromomethane	18.29	1.0	20	0	91.4	79 - 123				
Dichlorodifluoromethane	18.7	1.0	20	0	93.5	32 - 152				
Ethylbenzene	18.15	1.0	20	0	90.8	79 - 121				
Hexachlorobutadiene	19.92	1.0	20	0	99.6	66 - 134				
Isopropylbenzene	19.01	1.0	20	0	95.0	72 - 131				
m,p-Xylene	37.73	2.0	40	0	94.3	80 - 121				
Methylene chloride	19.69	2.0	20	0	98.4	74 - 124				
Naphthalene	20.99	1.0	20	0	105	61 - 128				
n-Butylbenzene	19.16	1.0	20	0	95.8	75 - 128				
n-Propylbenzene	20.02	1.0	20	0	100	76 - 126				
o-Xylene	18.93	1.0	20	0	94.7	78 - 122				
sec-Butylbenzene	19.59	1.0	20	0	98.0	77 - 126				
Styrene	19.07	1.0	20	0	95.4	78 - 123				
tert-Butylbenzene	19.71	1.0	20	0	98.5	78 - 124				
Tetrachloroethene	18.98	1.0	20	0	94.9	74 - 129				
Toluene	18.46	1.0	20	0	92.3	80 - 121				
trans-1,2-Dichloroethene	17.31	1.0	20	0	86.6	75 - 124				
trans-1,3-Dichloropropene	18.07	1.0	20	0	90.3	73 - 127				
Trichloroethene	18.06	1.0	20	0	90.3	79 - 123				
Trichlorofluoromethane	18.07	1.0	20	0	90.4	65 - 141				
Vinyl chloride	17.63	1.0	20	0	88.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.24*	*35*	*50*	*0*	*110*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.96*	*35*	*50*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*55.22*	*35*	*50*	*0*	*110*	*80 - 119*				
Surr: Toluene-d8	*55.42*	*35*	*50*	*0*	*111*	*89 - 112*				

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:35**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031897** 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	17.04	1.0	20	0	85.2	78 - 124	18.24	6.78	20	
1,1,1-Trichloroethane	17.69	1.0	20	0	88.4	74 - 131	18.26	3.15	20	
1,1,2,2-Tetrachloroethane	20	1.0	20	0	100.0	71 - 121	20.93	4.59	20	
1,1,2-Trichloroethane	18.81	1.0	20	0	94.0	80 - 119	20.59	9.06	20	
1,1-Dichloroethane	18.77	1.0	20	0	93.9	77 - 125	19.25	2.52	20	
1,1-Dichloroethene	16.77	1.0	20	0	83.8	71 - 131	17.06	1.74	20	
1,1-Dichloropropene	16.98	1.0	20	0	84.9	78 - 125	17.97	5.7	20	
1,2,3-Trichlorobenzene	17.33	1.0	20	0	86.7	69 - 129	18.86	8.43	20	
1,2,3-Trichloropropane	19.34	1.0	20	0	96.7	73 - 122	20.48	5.71	20	
1,2,4-Trichlorobenzene	16.92	1.0	20	0	84.6	69 - 130	18.54	9.09	20	
1,2,4-Trimethylbenzene	17.88	1.0	20	0	89.4	76 - 124	19.5	8.71	20	
1,2-Dibromo-3-chloropropane	18.13	1.0	20	0	90.7	62 - 128	19.27	6.08	20	
1,2-Dibromoethane	18.53	1.0	20	0	92.7	77 - 121	19.85	6.88	20	
1,2-Dichlorobenzene	19.41	1.0	20	0	97.1	80 - 119	20.78	6.83	20	
1,2-Dichloroethane	19.25	1.0	20	0	96.2	73 - 128	19.33	0.446	20	
1,2-Dichloropropane	18.52	1.0	20	0	92.6	78 - 122	19.45	4.89	20	
1,3,5-Trimethylbenzene	18.2	1.0	20	0	91.0	75 - 124	19.89	8.83	20	
1,3-Dichlorobenzene	18.83	1.0	20	0	94.2	80 - 119	20.55	8.74	20	
1,3-Dichloropropane	19.55	1.0	20	0	97.8	80 - 119	20.14	2.98	20	
1,4-Dichlorobenzene	19.13	1.0	20	0	95.6	79 - 118	20.53	7.09	20	
2,2-Dichloropropane	17.35	1.0	20	0	86.7	60 - 139	17.91	3.19	20	
2-Butanone	40.85	2.0	40	0	102	56 - 143	40.67	0.447	20	
2-Chlorotoluene	17.34	1.0	20	0	86.7	79 - 122	18.97	8.98	20	
2-Hexanone	36.32	2.0	40	0	90.8	57 - 139	37.86	4.15	20	
4-Chlorotoluene	17.7	1.0	20	0	88.5	78 - 122	19.24	8.35	20	
4-Isopropyltoluene	18.05	1.0	20	0	90.3	77 - 127	19.72	8.83	20	
4-Methyl-2-pentanone	36.88	2.0	40	0	92.2	67 - 130	38.08	3.21	20	
Acetone	45.27	2.0	40	0	113	39 - 160	45.14	0.282	20	
Benzene	18.45	1.0	20	0	92.3	79 - 120	19.18	3.86	20	
Bromobenzene	17.54	1.0	20	0	87.7	80 - 120	18.58	5.76	20	
Bromochloromethane	19.05	1.0	20	0	95.2	78 - 123	19.51	2.41	20	
Bromodichloromethane	16.9	1.0	20	0	84.5	79 - 125	17.55	3.79	20	
Bromoform	16.63	1.0	20	0	83.2	66 - 130	17.37	4.32	20	
Bromomethane	21.45	1.0	20	0	107	53 - 141	21.94	2.24	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:35**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031897** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	33.18	2.0	40	0	83.0	64 - 133	34.68	4.4	20	
Carbon tetrachloride	16.65	1.0	20	0	83.2	72 - 136	17.43	4.58	20	
Chlorobenzene	18.99	1.0	20	0	95.0	82 - 118	20.02	5.25	20	
Chloroethane	16.94	1.0	20	0	84.7	60 - 138	17.44	2.92	20	
Chloroform	18.87	1.0	20	0	94.3	79 - 124	19.25	2	20	
Chloromethane	17.9	1.0	20	0	89.5	50 - 139	18.47	3.14	20	
cis-1,2-Dichloroethene	16.98	1.0	20	0	84.9	78 - 123	17.33	2.02	20	
cis-1,3-Dichloropropene	17.89	1.0	20	0	89.4	75 - 124	18.37	2.67	20	
Dibromochloromethane	17.52	1.0	20	0	87.6	74 - 126	18.63	6.14	20	
Dibromomethane	17.64	1.0	20	0	88.2	79 - 123	18.29	3.62	20	
Dichlorodifluoromethane	17.8	1.0	20	0	89.0	32 - 152	18.7	4.92	20	
Ethylbenzene	17.25	1.0	20	0	86.3	79 - 121	18.15	5.08	20	
Hexachlorobutadiene	17.63	1.0	20	0	88.2	66 - 134	19.92	12.2	20	
Isopropylbenzene	17.92	1.0	20	0	89.6	72 - 131	19.01	5.89	20	
m,p-Xylene	36.11	2.0	40	0	90.3	80 - 121	37.73	4.38	20	
Methylene chloride	19.23	2.0	20	0	96.2	74 - 124	19.69	2.33	20	
Naphthalene	18.92	1.0	20	0	94.6	61 - 128	20.99	10.3	20	
n-Butylbenzene	17.77	1.0	20	0	88.8	75 - 128	19.16	7.54	20	
n-Propylbenzene	18.26	1.0	20	0	91.3	76 - 126	20.02	9.21	20	
o-Xylene	17.96	1.0	20	0	89.8	78 - 122	18.93	5.3	20	
sec-Butylbenzene	17.93	1.0	20	0	89.6	77 - 126	19.59	8.86	20	
Styrene	18.21	1.0	20	0	91.1	78 - 123	19.07	4.61	20	
tert-Butylbenzene	17.83	1.0	20	0	89.2	78 - 124	19.71	9.99	20	
Tetrachloroethene	17.84	1.0	20	0	89.2	74 - 129	18.98	6.23	20	
Toluene	17.54	1.0	20	0	87.7	80 - 121	18.46	5.12	20	
trans-1,2-Dichloroethene	16.63	1.0	20	0	83.1	75 - 124	17.31	4.03	20	
trans-1,3-Dichloropropene	17.46	1.0	20	0	87.3	73 - 127	18.07	3.42	20	
Trichloroethene	17.15	1.0	20	0	85.7	79 - 123	18.06	5.17	20	
Trichlorofluoromethane	17.7	1.0	20	0	88.5	65 - 141	18.07	2.1	20	
Vinyl chloride	17.4	1.0	20	0	87.0	58 - 137	17.63	1.3	20	
Surr: 1,2-Dichloroethane-d4	*56.48*	*35*	*50*	*0*	*113*	*81 - 118*	*55.24*	*2.22*	*20*	
Surr: 4-Bromofluorobenzene	*56.91*	*35*	*50*	*0*	*114*	*85 - 114*	*56.96*	*0.0971*	*20*	
Surr: Dibromofluoromethane	*56.62*	*35*	*50*	*0*	*113*	*80 - 119*	*55.22*	*2.49*	*20*	
Surr: Toluene-d8	*55.89*	*35*	*50*	*0*	*112*	*89 - 112*	*55.42*	*0.846*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder:	HS24051276

QC BATCH REPORT

Batch ID:	**R467761 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24051276-01 HS24051276-03

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467493 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025830** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **LCS-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025828** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.9	2.00	40	0	112	78 - 114				

LCSD Sample ID: **LCSD-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.8	2.00	40	0	110	78 - 114	44.9	2.48	18	

MS Sample ID: **HS24051024-01MS** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025808** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	40.2	2.00	40	1.778	96.1	78 - 114				

The following samples were analyzed in this batch: HS24051276-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467960 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036265** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	15.0	15.0								U

LCS Sample ID: **LCS-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036264** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	101	15.0	100	0	101	85 - 115				

LCSD Sample ID: **LCSD-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	100	15.0	100	0	100	85 - 115	101	0.995	20	

MS Sample ID: **HS24050884-01MS** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036267** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	55	15.0	50	6	98.0	80 - 120				

MSD Sample ID: **HS24050884-01MSD** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036266** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	57	15.0	50	6	102	80 - 120	55	3.57	20	

The following samples were analyzed in this batch: HS24051276-01

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

QC BATCH REPORT

Batch ID: R467970 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **29-May-2024 10:30**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036361** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-May-2024 10:36**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036362** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.99	0.500	20	0	105	80 - 120				
Sulfate	21.91	0.500	20	0	110	80 - 120				

MS Sample ID: **HS24050839-01MS** Units: **mg/L** Analysis Date: **29-May-2024 11:22**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036370** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	27.9	0.500	10	18.48	94.2	80 - 120				
Sulfate	23.13	0.500	10	14.12	90.1	80 - 120				

MSD Sample ID: **HS24050839-01MSD** Units: **mg/L** Analysis Date: **29-May-2024 11:28**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036371** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	27.73	0.500	10	18.48	92.5	80 - 120	27.9	0.615	20	
Sulfate	23.25	0.500	10	14.12	91.3	80 - 120	23.13	0.505	20	

The following samples were analyzed in this batch: HS24051276-01

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: **HS24051276**

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
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-2024
Maryland	343; 2023-2024	30-Jun-2024
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

ALS Houston, US Date: 07-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051276 **Date/Time Received:** 22-May-2024 10:15

Client Name: Bhate Environmental **Received by:** Jacob Coronado

Completed By: /S/ Bernadette A. Fini (eSignature) 22-May-2024 13:00 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **Water** 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:none
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):	2.5/2.6 uc/c	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	5-22-24 13:30	

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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CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, Tx. 77099 ATTN: James Guin

Page 1 of 1

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. JVPCIBH.0001

Job:
GROUNDWATER TREATMENT PLANT QUARTERLY EFFLUENT SAMPLES

Prepared By: Scott Beesinger

P. O. Number BILL to PCI

HS24051276

Bhate Environmental Associates, Inc.
Groundwater Treatment Plant Quarterly Effluent Sampl

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: ROD Volatiles	Total Metals	Oil & Grease	Chemical Oxygen Demand	Chloride & Sulfate	1, 4 - DIOXANE	PERCHLORATE				Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_052124	Water	05/21/24 / 13:00		4	3		1								HCL	
LH18/24-SP650_052124	Water	05/21/24 / 13:00		1		1									HNO3	
LH18/24-SP650_052124	Water	05/21/24 / 13:00		2					1	1					NONE	
LH18/24-SP650_052124	Water	05/21/24 / 13:00		1				1							H2SO4	
LH18/24-SP650_052124_AIX	Water	05/21/24 / 13:00		1							1				NONE	
Trip Blank	Water	05/21/24		2	2										HCL	

Additional Remarks: **Standard TAT**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	05/21/24	13:30								5/22/24	1015

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

(Word) S:\T-ees\Forms\Chain of Custody - BiWeekly

Blue

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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 5/21/24 Time: 1330
Name: Scott Beesinger
Company: BHATE

Seal Broken By:
Date: 05/22/24

Blank MAY 22 2024

ALS

Blank

ORIGIN ID:SGRA (903) 930-8193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE.
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 06JUN23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3707
DIMS: 26x14x14 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530- 5656
REF: LHAAP - 18 24 (1 OF 2) = BO 93515-JG

FedEx Express

FedEx
TRK# 0221 6230 3000 9604

WED - 22 MAY AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

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June 05, 2024 Service Request No:E2400569

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051276

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400569.**

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

H Kelany

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.:**	E2400569
Project:	HS24051276	**Date Received:**	05/22/24
Sample Matrix:	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

One sample was received for analysis at ALS Environmental in Houston on 05/22/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2400569
Project: HS24051276

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400569-001	LH18/24-SP650_052124_AIX	5/21/2024	1300

Service Request Summary

Folder #: **E2400569**
Client Name: ALS Environmental - US
Project Name: HS24051276
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: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400569-001	LH18/24-SP650_052124_AIX	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #: **E2400569**
Client Name: ALS Environmental - US
Project Name: HS24051276
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: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
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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ALS Laboratory Group

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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10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

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
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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E2400569
ALS Group USA, Corp.
HS24061276
5

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: **Dept of Defense** **COC ID:** **25758**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051276
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051276-02**	**LH18/24-SP650_052124_AIX**	**Water**	**21 May 2024 13:00**
	SUB_Perch-6850			30 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/22/24 1015

Cooler ID(s): _____ Temperature(s): _____

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E2400569
ALS Group USA, Corp.
HS24051276

5

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
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www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24051276 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 13:00 Bernadette A. Fini **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: Water **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): none	
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): 2.5/2.6 uc/c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 5-22-24 13:30

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:

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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

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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	SOWW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	SOWW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	SOWW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	SOWW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	SOWW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	SOWW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	SOWW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	SOWW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	SOWW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_AIX	**Units:**	µg/L
Lab Code:	E2400569-001	**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	**0.977**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 16:54	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**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	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276
Sample Matrix: Water

Service Request: E2400569
Date Analyzed: 5/31/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**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	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**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	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

HS24051276 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24051276

ALS Houston, US

Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:HG04_468074
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	30-May-2024 15:53	HG04_468074 Raw Data_8038509	HG
ICB	1	30-May-2024 15:55	_8038510	HG
CRA	1	30-May-2024 16:01	_8038511	HG
CCV 1	1	30-May-2024 16:04	_8039193	HG
CCB 1	1	30-May-2024 16:05	_8039194	HG
CCV 2	1	30-May-2024 16:34	_8039205	HG
CCB 2	1	30-May-2024 16:36	_8039206	HG
CCV 3	1	30-May-2024 16:57	_8039217	HG
CCB 3	1	30-May-2024 16:59	_8039218	HG
CCV 4	1	30-May-2024 17:20	_8039229	HG
CCB 4	1	30-May-2024 17:21	_8039230	HG
CCV 5	1	30-May-2024 17:44	_8039241	HG
CCB 5	1	30-May-2024 17:48	_8039242	HG
CCV 6	1	30-May-2024 18:11	_8039252	HG
CCB 6	1	30-May-2024 18:13	_8039253	HG
CCV 7	1	30-May-2024 18:44	_8039264	HG
CCB 7	1	30-May-2024 18:46	_8039265	HG
CCV 8	1	30-May-2024 19:07	_8039278	HG
CCB 8	1	30-May-2024 19:09	_8039279	HG
CCV 9	1	30-May-2024 19:30	_8039290	HG
CCB 9	1	30-May-2024 19:31	_8039291	HG
MBLK-212789	1	30-May-2024 19:49	_8039301	HG
CCV 10	1	30-May-2024 19:52	_8039302	HG
CCB 10	1	30-May-2024 19:54	_8039303	HG
LCS-212789	1	30-May-2024 19:55	_8039304	HG
LH18/24-SP650_052124	1	30-May-2024 19:59	_8039306	HG
ZZZZZZMS	1	30-May-2024 20:08	_8039308	HG
ZZZZZZMSD	1	30-May-2024 20:09	_8039309	HG
CCV 11	1	30-May-2024 20:21	_8039314	HG
CCB 11	1	30-May-2024 20:22	_8039315	HG
CCV 12	1	30-May-2024 20:44	_8039326	HG
CCB 12	1	30-May-2024 20:45	_8039327	HG
CCV 13	1	30-May-2024 21:09	_8039337	HG
CCB 13	1	30-May-2024 21:11	_8039338	HG
CCV 14	1	30-May-2024 21:35	_8039350	HG
CCB 14	1	30-May-2024 21:37	_8039351	HG
CCV 15	1	30-May-2024 21:51	_8039356	HG
CCB 15	1	30-May-2024 21:53	_8039357	HG

ALS Houston, US

Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276
Start Date: 29-May-2024 End Date: 29-May-2024

Run ID:ICPMS07_467901
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_467901_Tune	1	29-May-2024 00:00	ICPMS07_467901_Tune_1	
CAL BLK	1	29-May-2024 10:29	010CALB.d_8035078	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-May-2024 10:31	011CALS.d_8035079	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-May-2024 10:34	012CALS.d_8035080	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-May-2024 10:37	013CALS.d_8035081	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-May-2024 10:39	014CALS.d_8035082	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-May-2024 10:42	015CALS.d_8035083	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-May-2024 10:56	017_ICV.d_8035085	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	29-May-2024 11:01	019LCV2.d_8035087	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	29-May-2024 11:03	020LCV5.d_8035088	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	29-May-2024 11:08	022_ICB.d_8035090	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	29-May-2024 11:13	024ICSA.d_8035092	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	29-May-2024 11:15	025ICSB.d_8035093	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	29-May-2024 14:58	098CALB.d_8035932	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-May-2024 15:00	099CALS.d_8035933	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-May-2024 15:03	100CALS.d_8035934	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-May-2024 15:05	101CALS.d_8035935	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-May-2024 15:08	102CALS.d_8035936	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-May-2024 15:10	103CALS.d_8035937	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-May-2024 15:16	105_ICV.d_8035939	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	29-May-2024 15:21	107LCV2.d_8035941	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	29-May-2024 15:23	108LCV5.d_8035942	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	29-May-2024 15:25	109_ICB.d_8035943	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	29-May-2024 15:38	111_CCV.d_8036158	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	29-May-2024 15:40	112_CCB.d_8036159	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
MBLK-212449	1	29-May-2024 15:45	113SMPL.d_8036160	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	29-May-2024 16:11	123_CCV.d_8036170	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	29-May-2024 16:14	124_CCB.d_8036171	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_468021_Tune	1	30-May-2024 00:00	ICPMS07_468021_Tune_1	
CAL BLK	1	30-May-2024 10:54	010CALB.d_8037496	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	30-May-2024 10:57	011CALS.d_8037497	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	30-May-2024 10:59	012CALS.d_8037498	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-May-2024 11:02	013CALS.d_8037499	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	30-May-2024 11:05	014CALS.d_8037500	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	30-May-2024 11:07	015CALS.d_8037501	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	30-May-2024 11:17	019LCV2.d_8037505	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	30-May-2024 11:20	020LCV5.d_8037506	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	30-May-2024 11:24	022_ICB.d_8037508	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	30-May-2024 11:27	023_ICV.d_8037509	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	30-May-2024 11:33	025ICSA.d_8037568	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	30-May-2024 11:36	026ICSB.d_8037569	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	30-May-2024 11:50	031_CCV.d_8037719	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	30-May-2024 11:53	032_CCB.d_8037720	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_052124	1	30-May-2024 11:58	034SMPL.d_8037722	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_052124SD	5	30-May-2024 12:00	035SMPL.d_8037723	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_052124MS	1	30-May-2024 12:03	036SMPL.d_8037724	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_052124MSD	1	30-May-2024 12:05	037SMPL.d_8037725	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_052124PDS	1	30-May-2024 12:08	038SMPL.d_8037726	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LCS-212449	1	30-May-2024 12:18	041SMPL.d_8037768	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE V ZN
CCV 2	1	30-May-2024 12:28	043_CCV.d_8037800	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	30-May-2024 12:30	044_CCB.d_8037801	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-212449	1	30-May-2024 12:32	045SMPL.d_8037802	TL
LH18/24-SP650_052124	50	30-May-2024 12:35	046SMPL.d_8037813	NA
LH18/24-SP650_052124SD	250	30-May-2024 12:37	047SMPL.d_8037814	NA
LH18/24-SP650_052124PDS	50	30-May-2024 12:40	048SMPL.d_8037815	NA
CCV 3	1	30-May-2024 12:50	051_CCV.d_8037887	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	30-May-2024 12:52	052_CCB.d_8037888	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	30-May-2024 23:42	273_CCV.d_8039702	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	30-May-2024 23:44	274_CCB.d_8039703	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	30-May-2024 23:49	276LCV2.d_8039705	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	30-May-2024 23:51	277LCV5.d_8039706	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICSA	1	30-May-2024 23:54	278ICSA.d_8039707	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	30-May-2024 23:56	279ICSB.d_8039708	AG AL AS BA BE CA CD CO CR 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_468074
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: HG04
WorkOrder: HS24051276 Method: SW7470A

ICV	Date: 30-May-2024 15:53		Seq: 8038509	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.26	105	90-110	

CCV1	Date: 30-May-2024 16:04		Seq: 8039193	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV2	Date: 30-May-2024 16:34		Seq: 8039205	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV3	Date: 30-May-2024 16:57		Seq: 8039217	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.83	97	90-110	

CCV4	Date: 30-May-2024 17:20		Seq: 8039229	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.8	96	90-110	

CCV5	Date: 30-May-2024 17:44		Seq: 8039241	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.72	94	90-110	

CCV6	Date: 30-May-2024 18:11		Seq: 8039252	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV7	Date: 30-May-2024 18:44		Seq: 8039264	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV8	Date: 30-May-2024 19:07		Seq: 8039278	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

CCV9	Date: 30-May-2024 19:30		Seq: 8039290	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV10	Date: 30-May-2024 19:52		Seq: 8039302	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV11	Date: 30-May-2024 20:21		Seq: 8039314	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV12	Date: 30-May-2024 20:44		Seq: 8039326	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.75	95	90-110	

CCV13	Date: 30-May-2024 21:09		Seq: 8039337	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.76	95	90-110	

ALS Houston, US

Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: HG04_468074
Instrument: HG04
Method: SW7470A

CCV14	Date: 30-May-2024 21:35		Seq: 8039350	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.69	94	90-110	

CCV15	Date: 30-May-2024 21:51		Seq: 8039356	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.72	94	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_467901
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: ICPMS07
WorkOrder: HS24051276 Method: SW6020A

ICV	Date: 29-May-2024 10:56		Seq: 8035085	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	103.625	104	90-110	
Antimony	100	101.204	101	90-110	
Arsenic	100	102.324	102	90-110	
Barium	100	101.543	102	90-110	
Beryllium	100	107.743	108	90-110	
Cadmium	100	101.463	101	90-110	
Calcium	10000	9948.603	100	90-110	
Chromium	100	102.864	103	90-110	
Cobalt	100	103.28	103	90-110	
Iron	10000	9926.072	99	90-110	
Lead	100	101.812	102	90-110	
Magnesium	10000	9989.209	100	90-110	
Manganese	100	103.367	103	90-110	
Nickel	100	103.03	103	90-110	
Potassium	10000	10015.284	100	90-110	
Selenium	100	102.65	103	90-110	
Silver	100	100.902	101	90-110	
Sodium	10000	9896.571	99	90-110	
Thallium	100	102.136	102	90-110	
Vanadium	100	102.244	102	90-110	
Zinc	100	102.415	102	90-110	

ICV	Date: 29-May-2024 15:16		Seq: 8035939	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	105.689	106	90-110	
Antimony	100	103.052	103	90-110	
Arsenic	100	104.457	104	90-110	
Barium	100	103.747	104	90-110	
Beryllium	100	105.26	105	90-110	
Cadmium	100	102.978	103	90-110	
Calcium	10000	10030.887	100	90-110	
Chromium	100	104.839	105	90-110	
Cobalt	100	104.906	105	90-110	
Iron	10000	10066.25	101	90-110	
Lead	100	104.162	104	90-110	
Magnesium	10000	10106.019	101	90-110	
Manganese	100	104.796	105	90-110	
Nickel	100	104.368	104	90-110	
Potassium	10000	10186.511	102	90-110	
Selenium	100	104.59	105	90-110	
Silver	100	103.027	103	90-110	
Sodium	10000	10060.637	101	90-110	
Thallium	100	106.777	107	90-110	
Vanadium	100	104.734	105	90-110	
Zinc	100	103.728	104	90-110	

CCV1	Date: 29-May-2024 15:38		Seq: 8036158	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	102.462	102	90-110	
Antimony	100	102.567	103	90-110	
Arsenic	100	104.346	104	90-110	
Barium	100	104.388	104	90-110	
Beryllium	100	103.621	104	90-110	
Cadmium	100	103.495	103	90-110	
Calcium	10000	10275.749	103	90-110	

ALS Houston, US Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_467901
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: ICPMS07
WorkOrder: HS24051276 Method: SW6020A

CCV1	Date: 29-May-2024 15:38		Seq: 8036158	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Chromium	100	104.806	105	90-110	
Cobalt	100	104.84	105	90-110	
Iron	10000	10246.892	102	90-110	
Lead	100	103.696	104	90-110	
Magnesium	10000	10260.819	103	90-110	
Manganese	100	104.753	105	90-110	
Nickel	100	105.164	105	90-110	
Potassium	10000	10407.078	104	90-110	
Selenium	100	106.644	107	90-110	
Silver	100	104.363	104	90-110	
Sodium	10000	10145.847	101	90-110	
Thallium	100	99.208	99	90-110	
Vanadium	100	104.775	105	90-110	
Zinc	100	104.831	105	90-110	

CCV2	Date: 29-May-2024 16:11		Seq: 8036170	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.84	100	90-110	
Antimony	100	101.089	101	90-110	
Arsenic	100	101.364	101	90-110	
Barium	100	101.71	102	90-110	
Beryllium	100	100.626	101	90-110	
Cadmium	100	100.892	101	90-110	
Calcium	10000	9996.045	100	90-110	
Chromium	100	101.399	101	90-110	
Cobalt	100	101.691	102	90-110	
Iron	10000	10015.968	100	90-110	
Lead	100	102.049	102	90-110	
Magnesium	10000	10106.841	101	90-110	
Manganese	100	103.272	103	90-110	
Nickel	100	100.986	101	90-110	
Potassium	10000	10241.259	102	90-110	
Selenium	100	104.081	104	90-110	
Silver	100	101.467	101	90-110	
Sodium	10000	10068.929	101	90-110	
Thallium	100	96.782	97	90-110	
Vanadium	100	101.692	102	90-110	
Zinc	100	101.968	102	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_468021

Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: ICPMS07

WorkOrder: HS24051276 Method: SW6020A

ICV	Date: 30-May-2024 11:27		Seq: 8037509	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	103.112	103	90-110	
Antimony	100	99.887	100	90-110	
Arsenic	100	101.428	101	90-110	
Barium	100	100.38	100	90-110	
Beryllium	100	103.229	103	90-110	
Cadmium	100	100.256	100	90-110	
Calcium	10000	10240.364	102	90-110	
Chromium	100	102.14	102	90-110	
Cobalt	100	102.566	103	90-110	
Iron	10000	10205.548	102	90-110	
Lead	100	100.567	101	90-110	
Magnesium	10000	10301.883	103	90-110	
Manganese	100	102.345	102	90-110	
Nickel	100	102.672	103	90-110	
Potassium	10000	10228.95	102	90-110	
Selenium	100	101.983	102	90-110	
Silver	100	101.855	102	90-110	
Sodium	10000	10265.657	103	90-110	
Thallium	100	100.746	101	90-110	
Vanadium	100	101.031	101	90-110	
Zinc	100	102.408	102	90-110	

CCV1	Date: 30-May-2024 11:50		Seq: 8037719	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	100.492	100	90-110	
Antimony	100	100.162	100	90-110	
Arsenic	100	100.683	101	90-110	
Barium	100	102.093	102	90-110	
Beryllium	100	97.453	98	90-110	
Cadmium	100	99.435	99	90-110	
Calcium	10000	10125.952	101	90-110	
Chromium	100	100.786	101	90-110	
Cobalt	100	101.181	101	90-110	
Iron	10000	10057.408	101	90-110	
Lead	100	100.075	100	90-110	
Magnesium	10000	10217.894	102	90-110	
Manganese	100	100.727	101	90-110	
Nickel	100	100.522	101	90-110	
Potassium	10000	10186.26	102	90-110	
Selenium	100	99.333	99	90-110	
Silver	100	103.862	104	90-110	
Sodium	10000	10230.838	102	90-110	
Thallium	100	99.181	99	90-110	
Vanadium	100	100.983	101	90-110	
Zinc	100	100.922	101	90-110	

CCV2	Date: 30-May-2024 12:28		Seq: 8037800	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.859	102	90-110	
Antimony	100	97.872	98	90-110	
Arsenic	100	99.758	100	90-110	
Barium	100	100.639	101	90-110	
Beryllium	100	100.01	100	90-110	
Cadmium	100	98.325	98	90-110	
Calcium	10000	9908.11	99	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_468021

Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: ICPMS07

WorkOrder: HS24051276 Method: SW6020A

CCV2	Date: 30-May-2024 12:28		Seq: 8037800	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Chromium	100	99.915	100	90-110	
Cobalt	100	99.841	100	90-110	
Iron	10000	9944.241	99	90-110	
Lead	100	100.144	100	90-110	
Magnesium	10000	10108.781	101	90-110	
Manganese	100	99.389	99	90-110	
Nickel	100	100.172	100	90-110	
Potassium	10000	10032.061	100	90-110	
Selenium	100	98.083	98	90-110	
Silver	100	101.505	102	90-110	
Sodium	10000	10164.628	102	90-110	
Thallium	100	100.859	101	90-110	
Vanadium	100	99.594	100	90-110	
Zinc	100	98.668	99	90-110	

CCV3	Date: 30-May-2024 12:50		Seq: 8037887	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.045	101	90-110	
Antimony	100	97.855	98	90-110	
Arsenic	100	99.922	100	90-110	
Barium	100	100.78	101	90-110	
Beryllium	100	101.672	102	90-110	
Cadmium	100	99.332	99	90-110	
Calcium	10000	9933.2	99	90-110	
Chromium	100	100.048	100	90-110	
Cobalt	100	99.785	100	90-110	
Iron	10000	9964.53	100	90-110	
Lead	100	99.882	100	90-110	
Magnesium	10000	10155.112	102	90-110	
Manganese	100	99.461	100	90-110	
Nickel	100	99.769	100	90-110	
Potassium	10000	10063.16	101	90-110	
Selenium	100	96.621	97	90-110	
Silver	100	100.852	101	90-110	
Sodium	10000	10153.363	102	90-110	
Thallium	100	99.258	99	90-110	
Vanadium	100	99.371	99	90-110	
Zinc	100	99.163	99	90-110	

CCV4	Date: 30-May-2024 23:42		Seq: 8039702	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	97.056	97	90-110	
Antimony	100	98.676	99	90-110	
Arsenic	100	95.016	95	90-110	
Barium	100	95.592	96	90-110	
Beryllium	100	95.85	96	90-110	
Cadmium	100	95.613	96	90-110	
Calcium	10000	9418.874	94	90-110	
Chromium	100	96.638	97	90-110	
Cobalt	100	97.779	98	90-110	
Iron	10000	9671.467	97	90-110	
Lead	100	97.152	97	90-110	
Magnesium	10000	9510.618	95	90-110	
Manganese	100	96.158	96	90-110	
Nickel	100	98.084	98	90-110	

ALS Houston, US Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_468021
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: ICPMS07
WorkOrder: HS24051276 Method: SW6020A

CCV4 Date: 30-May-2024 23:42 Seq: 8039702 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9408.353	94	90-110	
Selenium	100	94.042	94	90-110	
Silver	100	95.947	96	90-110	
Sodium	10000	9562.02	96	90-110	
Thallium	100	94.551	95	90-110	
Vanadium	100	96.414	96	90-110	
Zinc	100	97.154	97	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: HG04_468074
Instrument: HG04
Method: SW7470A

ICB	Date: 30-May-2024 15:55		Seq: 8038510	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 30-May-2024 16:05		Seq: 8039194	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 30-May-2024 16:36		Seq: 8039206	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	-0.03	0.03	0.2	J	
CCB3	Date: 30-May-2024 16:59		Seq: 8039218	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 30-May-2024 17:21		Seq: 8039230	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 30-May-2024 17:48		Seq: 8039242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 30-May-2024 18:13		Seq: 8039253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 30-May-2024 18:46		Seq: 8039265	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 30-May-2024 19:09		Seq: 8039279	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 30-May-2024 19:31		Seq: 8039291	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-212789	Date: 30-May-2024 19:49		Seq: 8039301	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 30-May-2024 19:54		Seq: 8039303	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 30-May-2024 20:22		Seq: 8039315	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB12	Date: 30-May-2024 20:45		Seq: 8039327	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB13	Date: 30-May-2024 21:11		Seq: 8039338	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: HG04_468074
Instrument: HG04
Method: SW7470A

CCB14	Date: 30-May-2024 21:37		Seq: 8039351	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB15	Date: 30-May-2024 21:53		Seq: 8039357	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 29-May-2024 11:08		Seq: 8035090	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	5	0.4	5	U	
Cobalt	5	0.1	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	

ICCB1	Date: 29-May-2024 15:25		Seq: 8035943	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-3.124	1.8	10	J	
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	
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	-19.53	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 29-May-2024 15:40		Seq: 8036159	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-4.658	1.8	10	J	
Antimony	2	0.4	2	U	
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	

ALS Houston, US Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 29-May-2024 15:40		Seq: 8036159	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	-20.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-212449	Date: 29-May-2024 15:45		Seq: 8036160	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	
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	

CCB3	Date: 29-May-2024 16:14		Seq: 8036171	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-4.99	1.8	10	J	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

CCB3 Date: 29-May-2024 16:14 Seq: 8036171 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	29.92	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 30-May-2024 11:24		Seq: 8037508	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	5	0.4	5	U	
Cobalt	5	0.1	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: 30-May-2024 11:53		Seq: 8037720	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.54	0.2	2	J	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 30-May-2024 12:30		Seq: 8037801	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 30-May-2024 12:30		Seq: 8037801	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	60.26	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 30-May-2024 12:52		Seq: 8037888	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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	37.57	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 30-May-2024 23:44		Seq: 8039703	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

CCB4 | Date: 30-May-2024 23:44 | Seq: 8039703 | 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	91.4	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 20-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_467901
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument:ICPMS07
WorkOrder: HS24051276 Method:SW6020A

ICSA	Date: 29-May-2024 11:13	Seq: 8035092	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	96850	96.9	
Antimony		0.104	0	
Arsenic		0.406	0	
Barium		0.502	0	
Beryllium		0.026	0	
Cadmium		0.747	0	
Calcium	100000	97400	97.4	
Chromium		0.89	0	
Cobalt		0.958	0	
Iron	100000	97680	97.7	
Lead		0.909	0	
Magnesium	100000	98020	98.0	
Manganese		1.612	0	
Nickel		1.012	0	
Potassium	100000	99130	99.1	
Selenium		0.23	0	
Silver		0.064	0	
Sodium	100000	98890	98.9	
Thallium		0.002	0	
Vanadium		0.251	0	
Zinc		2.861	0	

ICSAB	Date: 29-May-2024 11:15	Seq: 8035093	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	96920	96.4	
Antimony	100	99.93	99.9	
Arsenic	100	101	101	
Barium	100	102.7	103	
Beryllium	100	92.83	92.8	
Cadmium	100	98.01	98.0	
Calcium	110000	108200	98.4	
Chromium	100	99.72	99.7	
Cobalt	100	98.87	98.9	
Iron	110000	107800	98.0	
Lead	100	103.2	103	
Magnesium	110000	108800	98.9	
Manganese	100	101.6	102	
Nickel	100	95.47	95.5	
Potassium	110000	109700	99.8	
Selenium	100	100	100	
Silver	100	98.46	98.5	
Sodium	110000	109600	99.7	
Thallium	100	92.77	92.8	
Vanadium	100	101.9	102	
Zinc	100	99.76	99.8	

ALS Houston, US Date: 20-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_468021
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument:ICPMS07
WorkOrder: HS24051276 Method:SW6020A

ICSA	Date: 30-May-2024 11:33	Seq: 8037568	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	102200	102	
Antimony		0.201	0	
Arsenic		0.406	0	
Barium		0.583	0	
Beryllium		0.033	0	
Cadmium		0.693	0	
Calcium	100000	98520	98.5	
Chromium		0.878	0	
Cobalt		1.022	0	
Iron	100000	98360	98.4	
Lead		0.912	0	
Magnesium	100000	99090	99.1	
Manganese		1.687	0	
Nickel		1.052	0	
Potassium	100000	100000	100	
Selenium		-0.162	0	
Silver		0.041	0	
Sodium	100000	100100	100	
Thallium		0.002	0	
Vanadium		0.294	0	
Zinc		3.002	0	

ICSAB	Date: 30-May-2024 11:36	Seq: 8037569	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	103500	103	
Antimony	100	106.6	107	
Arsenic	100	104	104	
Barium	100	107.1	107	
Beryllium	100	101.8	102	
Cadmium	100	102.8	103	
Calcium	110000	110200	100	
Chromium	100	103.6	104	
Cobalt	100	102.1	102	
Iron	110000	110500	100	
Lead	100	106.1	106	
Magnesium	110000	110900	101	
Manganese	100	103.9	104	
Nickel	100	99.61	99.6	
Potassium	110000	112100	102	
Selenium	100	103.9	104	
Silver	100	103.8	104	
Sodium	110000	113500	103	
Thallium	100	93.94	93.9	
Vanadium	100	104.7	105	
Zinc	100	103	103	

ICSA	Date: 30-May-2024 23:54	Seq: 8039707	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98990	99.0	
Antimony		0.11	0	
Arsenic		0.315	0	
Barium		0.588	0	
Beryllium		0.033	0	
Cadmium		0.728	0	

ALS Houston, US

Date: 20-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 30-May-2024 23:54	Seq: 8039707	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Calcium	100000	97980	98.0	
Chromium		0.684	0	
Cobalt		0.994	0	
Iron	100000	99810	99.8	
Lead		0.943	0	
Magnesium	100000	99160	99.2	
Manganese		1.552	0	
Nickel		1.102	0	
Potassium	100000	99180	99.2	
Selenium		-0.006	0	
Silver		0.043	0	
Sodium	100000	100200	100	
Thallium		0.008	0	
Vanadium		-0.083	0	
Zinc		3.337	0	

ICSAB	Date: 30-May-2024 23:56	Seq: 8039708	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98930	98.4	
Antimony	100	103.9	104	
Arsenic	100	100.5	100	
Barium	100	104.1	104	
Beryllium	100	101.3	101	
Cadmium	100	100.8	101	
Calcium	110000	107700	97.9	
Chromium	100	100.5	100	
Cobalt	100	101.4	101	
Iron	110000	108000	98.1	
Lead	100	105.2	105	
Magnesium	110000	107400	97.7	
Manganese	100	101.2	101	
Nickel	100	99.74	99.7	
Potassium	110000	109400	99.4	
Selenium	100	102.9	103	
Silver	100	99.64	99.6	
Sodium	110000	109300	99.3	
Thallium	100	92.04	92.0	
Vanadium	100	102.4	102	
Zinc	100	102.4	102	

ALS Houston, US Date: 20-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 20:09
Date Extracted: 30-May-2024 10:30
Units: ug/L

Matrix Spike: HS24051277-01MS
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	4.830	5.000	96.1	4.730	5.000	94.1	82-119	2.09	20

ALS Houston, US Date: 20-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 12:05
Date Extracted: 23-May-2024 15:30
Units: ug/L

Matrix Spike: HS24051276-01MS
Client Sample ID: LH18/24-SP650_052124

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	6.543	117.3	100.0	111	120.2	100.0	114	84-117	2.49	20
Antimony	5.000	49.45	50.00	98.4	50.09	50.00	99.7	85-117	1.29	20
Arsenic	5.000	50.56	50.00	101	50.88	50.00	101	84-116	0.631	20
Barium	217.4	263.2	50.00	91.6	269.4	50.00	104	86-114	2.33	20
Beryllium	2.000	46.70	50.00	93.4	46.23	50.00	92.4	83-121	1.00	20
Cadmium	2.000	47.61	50.00	95.2	48.36	50.00	96.7	87-115	1.56	20
Calcium	21810	26760	5000	99.0	27180	5000	108	87-118	1.58	20
Chromium	0.8940	49.62	50.00	97.5	50.57	50.00	99.4	85-116	1.90	20
Cobalt	5.000	48.98	50.00	97.8	49.14	50.00	98.1	86-115	0.340	20
Iron	83.96	4932	5000	97.0	5026	5000	98.8	87-118	1.89	20
Lead	5.000	48.92	50.00	97.8	49.89	50.00	99.7	88-115	1.97	20
Magnesium	10490	15380	5000	97.9	15730	5000	105	83-118	2.21	20
Manganese	46.96	96.86	50.00	99.8	97.38	50.00	101	87-115	0.530	20
Nickel	5.000	48.22	50.00	95.7	48.75	50.00	96.8	85-117	1.08	20
Potassium	2067	7026	5000	99.2	7147	5000	102	87-115	1.71	20
Selenium	5.000	48.55	50.00	97.0	49.01	50.00	97.9	80-120	0.941	20
Silver	0.3780	47.34	50.00	93.9	47.48	50.00	94.2	85-116	0.300	20
Sodium	527300	533000	5000	114	542900	5000	313	85-117	1.85	20
Thallium	2.000	44.08	50.00	88.1	45.76	50.00	91.4	82-116	3.75	20
Vanadium	5.000	49.73	50.00	99.0	50.76	50.00	101	86-115	2.06	20
Zinc	3.855	53.84	50.00	100	54.95	50.00	102	83-119	2.05	20

ALS Houston, US Date: 20-Jun-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 12:08
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: HS24051276-01PDS
Client Sample ID: LH18/24-SP650_052124
Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	6.543	103.3	100	97	80-120
Antimony	0	99.18	100	99	80-120
Arsenic	0	97.44	100	97	80-120
Barium	217.4	303.8	100	86	80-120
Beryllium	0	88.77	100	89	80-120
Cadmium	0	91.98	100	92	80-120
Calcium	21810	31030	10000	92	80-120
Chromium	0.894	96.18	100	95	80-120
Cobalt	0	94.91	100	95	80-120
Iron	83.96	9687	10000	96	80-120
Lead	0	95.19	100	95	80-120
Magnesium	10490	19970	10000	95	80-120
Manganese	46.96	143.3	100	96	80-120
Nickel	0	92.52	100	92	80-120
Potassium	2067	11760	10000	97	80-120
Selenium	0	95.34	100	95	80-120
Silver	0.378	91.47	100	91	80-120
Thallium	0	89.3	100	89	80-120
Vanadium	0	98.38	100	98	80-120
Zinc	3.855	98.08	100	94	80-120
Sodium	531600	1036000	500000	101	80-120

ALS Houston, US Date: 20-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 19:55
Date Extracted: 30-May-2024 10:30
Units: ug/L

Lab Sample ID: LCS-212789 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.48	90	82-119

ALS Houston, US Date: 20-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 12:18
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: LCS-212449 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	101.8	102	84-117
Antimony	50	48.8	98	85-117
Arsenic	50	47.51	95	84-116
Barium	50	47.27	95	86-114
Beryllium	50	46.52	93	83-121
Cadmium	50	45.53	91	87-115
Calcium	5000	4892	98	87-118
Chromium	50	47.99	96	85-116
Cobalt	50	48.21	96	86-115
Iron	5000	4809	96	87-118
Lead	50	47.24	95	88-115
Magnesium	5000	4894	98	83-118
Manganese	50	49.32	99	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4873	98	87-115
Selenium	50	47.42	95	80-120
Silver	50	47.23	95	85-116
Sodium	5000	4967	99	85-117
Vanadium	50	47.59	95	86-115
Zinc	50	50.94	102	83-119
Thallium	50	46.42	93	82-116

ALS Houston, US Date: 20-Jun-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS24051276

Date Analyzed: 30-May-2024 12:00
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: HS24051276-01SD
Client Sample ID:LH18/24-SP650_052124

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	6.543	J	0	U	0	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	217.4		219.6		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	21810		21180		3	
Chromium	0.894	J	0	U	0	
Cobalt	0	U	0	U	0	
Iron	83.96	J	87.65	J	4	
Lead	0	U	0	U	0	
Magnesium	10490		10500		0	
Manganese	46.96		47.88		2	
Nickel	0	U	0	U	0	
Potassium	2067		2027		2	
Selenium	0	U	0	U	0	
Silver	0.378	J	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	3.855	J	0	U	0	
Sodium	531600		554800		4	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\053024AW.wszf

Creation Date: 5/30/2024 2:45:15 PM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	05/30/24 03:39:11 pm	0.000	-156	44.77		
	Replicates	-244.6	-171.7	-129.5	-79.3						
Standard #1 (0.2 ppb)					STD	05/30/24 03:40:53 pm	0.200	1148	5.45	0.54%	
	Replicates	1072.3	1123.9	1183.1	1212.9						
Standard #2 (0.5 ppb)					STD	05/30/24 03:42:35 pm	0.500	2998	1.39	-1.38%	
	Replicates	2945.9	2989.2	3010.0	3046.0						
Standard #3 (2.0 ppb)					STD	05/30/24 03:44:18 pm	2.000	12647	0.26	0.83%	
	Replicates	12685.0	12650.2	12650.2	12604.6						
Standard #4 (5.0 ppb)					STD	05/30/24 03:46:01 pm	5.000	31175	0.48	-1.16%	
	Replicates	31309.7	31268.8	31145.8	30977.8						
Standard #5 (10.0 ppb)					STD	05/30/24 03:47:44 pm	10.000	63432	0.53	0.35%	
	Replicates	63839.5	63551.1	63281.6	63056.3						

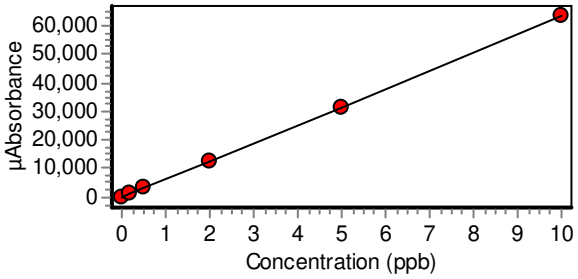
Calibration

Equation: Abs = 6333.891x + -125.606

R2: 0.99994 RSE: 1.20%

SEE: 222.2305

Flags:



ICCV					UNK	05/30/24 03:51:36 pm	4.920	31064	0.39		
	Replicates	31213.7	31095.5	31017.9	30928.1						
ICV					UNK	05/30/24 03:53:18 pm	5.260	33193	0.58		
	Replicates	33401.7	33293.0	33119.2	32959.2						
ICB					UNK	05/30/24 03:55:00 pm	-0.012	-199	102.92		
	Replicates	-302.1	-203.8	-159.4	-129.8						
CRA					UNK	05/30/24 04:01:15 pm	0.171	959	6.97		
	Replicates	865.9	943.2	979.0	1047.4						
CCV					UNK	05/30/24 04:04:01 pm	4.890	30863	0.24		
	Replicates	30862.8	30940.8	30884.8	30763.2						
CCB					UNK	05/30/24 04:05:44 pm	-0.029	-310	30.29		
	Replicates	-374.4	-335.0	-282.4	-248.1						
MBLK-212784					UNK	05/30/24 04:17:24 pm	-0.017	-232	40.91		
	Replicates	-286.8	-226.1	-235.4	-180.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-212784					UNK	05/30/24 04:19:06 pm	4.740	29919	0.56		
	Replicates	30096.1	30002.0	29866.0	29712.6						
MBLKT1-212665					UNK	05/30/24 04:20:48 pm	-0.004	-149	195.40		
	Replicates	-211.1	-154.5	-129.7	-102.1						
MBLKT2-212403					UNK	05/30/24 04:22:30 pm	-0.027	-299	21.51		
	Replicates	-336.3	-325.4	-276.0	-259.4						
MBLKT3-212404					UNK	05/30/24 04:24:13 pm	-0.021	-262	23.49		
	Replicates	-286.9	-274.1	-271.5	-214.9						
MBLKT4-212471					UNK	05/30/24 04:25:56 pm	-0.023	-273	18.09		
	Replicates	-300.8	-285.4	-265.6	-239.2						
MBLKT5-212656					UNK	05/30/24 04:27:38 pm	-0.019	-243	40.25		
	Replicates	-301.6	-256.0	-225.8	-189.8						
MBLKT6-212473					UNK	05/30/24 04:29:22 pm	-0.024	-280	24.07		
	Replicates	-322.1	-281.3	-284.3	-231.6						
MBLKT7-212488					UNK	05/30/24 04:31:03 pm	-0.022	-267	40.89		
	Replicates	-333.5	-293.7	-235.9	-204.5						
HS24050996-04					UNK	05/30/24 04:32:44 pm	-0.031	-324	13.33		
	Replicates	-353.7	-336.6	-315.0	-292.6						
CCV					UNK	05/30/24 04:34:52 pm	4.850	30586	0.34		
	Replicates	30464.4	30684.3	30657.9	30536.9						
CCB					UNK	05/30/24 04:36:36 pm	-0.030	-313	26.25		
	Replicates	-364.9	-341.9	-291.1	-255.7						
HS24050996-04MS					UNK	05/30/24 04:39:56 pm	4.970	31359	0.17		
	Replicates	31385.0	31406.3	31358.6	31285.6						
HS24050996-04MSD					UNK	05/30/24 04:41:38 pm	4.880	30798	0.12		
	Replicates	30766.9	30824.1	30833.3	30767.4						
HS24051278-04					UNK	05/30/24 04:43:20 pm	-0.027	-295	25.15		
	Replicates	-349.1	-309.4	-265.8	-256.6						
HS24051294-01					UNK	05/30/24 04:45:02 pm	-0.031	-324	18.47		
	Replicates	-368.7	-336.3	-307.9	-283.7						
HS24051334-01					UNK	05/30/24 04:46:44 pm	-0.012	-203	48.70		
	Replicates	-254.9	-201.1	-192.6	-164.4						
HS24051334-02					UNK	05/30/24 04:48:27 pm	-0.018	-243	43.99		
	Replicates	-308.9	-248.6	-228.8	-184.8						
HS24051398-01					UNK	05/30/24 04:50:09 pm	0.031	69	68.13		
	Replicates	-88.3	25.7	113.1	223.7						
HS24051399-01					UNK	05/30/24 04:51:52 pm	-0.171	-1209	4.24		
	Replicates	-1265.0	-1223.5	-1191.1	-1157.5						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051402-01		UNK	05/30/24 04:53:35 pm	0.007	-80	118.96		
Replicates	-159.3	-70.0	-48.2	-43.2				
HS24051402-03		UNK	05/30/24 04:55:18 pm	0.008	-75	81.56		
Replicates	-133.1	-74.1	-53.7	-39.3				
CCV		UNK	05/30/24 04:57:25 pm	4.830	30469	0.23		
Replicates	30510.8	30542.4	30440.4	30382.7				
CCB		UNK	05/30/24 04:59:09 pm	-0.005	-155	215.88		
Replicates	-232.4	-170.7	-133.9	-82.5				
HS24051402-05		UNK	05/30/24 05:02:24 pm	0.004	-103	252.42		
Replicates	-165.2	-127.9	-85.3	-35.3				
HS24051402-07		UNK	05/30/24 05:04:06 pm	-0.007	-169	117.61		
Replicates	-238.1	-177.2	-141.0	-121.0				
HS24051402-09		UNK	05/30/24 05:05:47 pm	-0.008	-177	101.58		
Replicates	-239.2	-202.7	-129.7	-137.9				
HS24051402-11		UNK	05/30/24 05:07:29 pm	-0.007	-167	93.96		
Replicates	-212.6	-175.9	-163.4	-117.6				
HS24051402-13		UNK	05/30/24 05:09:11 pm	-0.008	-175	72.87		
Replicates	-222.9	-159.3	-179.9	-138.4				
HS24051402-15		UNK	05/30/24 05:10:53 pm	-0.002	-136	329.80		
Replicates	-172.8	-145.6	-134.6	-90.8				
HS24051462-01		UNK	05/30/24 05:12:36 pm	0.000	-125	130.07		
Replicates	-180.6	-142.1	-104.7	-72.4				
HS24051541-01		UNK	05/30/24 05:14:18 pm	-0.004	-152	182.48		
Replicates	-206.2	-167.7	-147.3	-88.7				
HS24051582-01		UNK	05/30/24 05:16:01 pm	-0.010	-190	73.24		
Replicates	-249.9	-205.3	-155.7	-149.1				
HS24051616-01		UNK	05/30/24 05:17:43 pm	-0.005	-160	140.36		
Replicates	-217.7	-183.4	-128.1	-112.4				
CCV		UNK	05/30/24 05:20:13 pm	4.800	30259	0.23		
Replicates	30325.9	30299.3	30240.8	30169.3				
CCB		UNK	05/30/24 05:21:57 pm	-0.021	-262	40.61		
Replicates	-330.4	-276.5	-242.3	-199.3				
HS24051625-01		UNK	05/30/24 05:26:26 pm	0.043	149	15.06		
Replicates	95.2	143.0	164.0	193.4				
MBLK-212786		UNK	05/30/24 05:28:09 pm	-0.005	-160	163.16		
Replicates	-227.1	-182.6	-128.6	-101.4				
LCS-212786		UNK	05/30/24 05:29:51 pm	4.680	29488	0.29		
Replicates	29362.3	29546.3	29535.9	29506.2				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24050984-01					UNK	05/30/24 05:31:32 pm	-0.015	-224	47.67		
	Replicates	-290.4	-219.8	-201.8	-183.4						
HS24050984-02					UNK	05/30/24 05:33:14 pm	0.009	-70	65.11		
	Replicates	-120.2	-68.5	-56.9	-35.1						
HS24050984-02MS					UNK	05/30/24 05:34:56 pm	4.010	25260	0.59		
	Replicates	25056.1	25246.9	25334.3	25401.3						
HS24050984-02MSD					UNK	05/30/24 05:36:38 pm	4.280	26980	0.33		
	Replicates	26855.3	26971.7	27032.1	27059.8						
HS24050984-03					UNK	05/30/24 05:38:20 pm	-0.011	-192	65.99		
	Replicates	-228.3	-227.3	-175.4	-137.6						
HS24050984-04					UNK	05/30/24 05:40:02 pm	0.000	-124	829.53		
	Replicates	-202.1	-129.9	-95.7	-66.5						
HS24050984-05					UNK	05/30/24 05:41:45 pm	0.012	-47	60.13		
	Replicates	-107.2	-55.5	-30.9	5.3						
CCV					UNK	05/30/24 05:44:40 pm	4.720	29791	0.18		
	Replicates	29747.7	29830.8	29845.6	29739.8						
CCB					UNK	05/30/24 05:48:33 pm	-0.011	-197	26.75		
	Replicates	-217.1	-210.4	-180.6	-181.1						
HS24050984-06					UNK	05/30/24 05:50:15 pm	-0.001	-133	793.26		
	Replicates	-197.6	-170.6	-97.8	-67.2						
HS24050984-07					UNK	05/30/24 05:51:58 pm	-0.005	-159	154.45		
	Replicates	-222.8	-180.4	-118.2	-115.6						
HS24050984-08					UNK	05/30/24 05:53:41 pm	0.006	-90	132.70		
	Replicates	-147.5	-107.5	-64.1	-40.1						
HS24050984-09					UNK	05/30/24 05:55:24 pm	0.019	-3	29.76		
	Replicates	-43.1	-21.1	14.7	39.1						
HS24050984-10					UNK	05/30/24 05:57:06 pm	0.021	8	35.65		
	Replicates	-52.4	-3.3	30.9	58.5						
HS24050984-11					UNK	05/30/24 05:58:48 pm	0.022	11	44.08		
	Replicates	-63.5	15.7	8.7	84.1						
HS24050984-12					UNK	05/30/24 06:00:30 pm	0.015	-31	64.94		
	Replicates	-112.6	-42.9	9.5	23.5						
HS24050984-13					UNK	05/30/24 06:02:12 pm	1.060	6613	0.56		
	Replicates	6565.1	6602.1	6644.7	6641.1						
HS24050984-14					UNK	05/30/24 06:03:54 pm	0.050	194	15.58		
	Replicates	129.7	180.0	228.4	237.8						
HS24050984-15 X5					UNK	05/30/24 06:09:52 pm	3.790	23879	5.01		
	Replicates	25421.5	24188.7	23231.4	22675.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	05/30/24 06:11:59 pm	4.770	30059	0.20		
	Replicates	29979.6	30109.3	30102.3	30044.7						
CCB					UNK	05/30/24 06:13:43 pm	-0.005	-154	199.17		
	Replicates	-218.8	-185.6	-110.6	-102.2						
HS24050984-16					UNK	05/30/24 06:17:42 pm	0.005	-97	198.86		
	Replicates	-163.4	-111.1	-87.7	-23.9						
MBLK-212787					UNK	05/30/24 06:19:25 pm	0.010	-64	90.80		
	Replicates	-124.3	-90.0	-47.8	4.6						
LCS-212787					UNK	05/30/24 06:23:22 pm	4.600	29008	0.12		
	Replicates	28960.5	29026.9	29043.5	29000.7						
HS24051071-01					UNK	05/30/24 06:25:04 pm	-0.010	-191	54.56		
	Replicates	-240.2	-169.1	-195.1	-160.5						
HS24051071-02					UNK	05/30/24 06:26:47 pm	0.028	53	21.77		
	Replicates	9.1	32.1	75.1	93.8						
HS24051071-02MS					UNK	05/30/24 06:34:53 pm	4.750	29977	0.31		
	Replicates	29849.4	30063.4	30025.2	29968.4						
HS24051071-02MSD					UNK	05/30/24 06:36:35 pm	4.620	29154	2.49		
	Replicates	28159.3	29073.4	29595.2	29790.0						
HS24051071-03					UNK	05/30/24 06:38:17 pm	-0.012	-200	48.14		
	Replicates	-244.3	-202.9	-195.6	-156.9						
HS24051071-04					UNK	05/30/24 06:40:00 pm	0.010	-63	48.03		
	Replicates	-99.6	-75.0	-39.4	-36.4						
HS24051071-05					UNK	05/30/24 06:41:42 pm	0.009	-66	84.35		
	Replicates	-109.0	-100.0	-56.0	0.8						
CCV					UNK	05/30/24 06:44:22 pm	4.780	30148	0.57		
	Replicates	29891.9	30218.3	30248.9	30233.8						
CCB					UNK	05/30/24 06:46:06 pm	0.001	-117	526.33		
	Replicates	-165.1	-135.6	-108.3	-59.2						
HS24051071-06					UNK	05/30/24 06:47:48 pm	0.057	235	19.51		
	Replicates	148.6	208.1	281.5	302.1						
HS24051071-07					UNK	05/30/24 06:49:30 pm	0.028	49	25.94		
	Replicates	-7.7	39.2	63.0	100.2						
HS24051071-08					UNK	05/30/24 06:51:13 pm	0.041	132	11.12		
	Replicates	111.9	107.4	137.2	169.6						
HS24051071-09					UNK	05/30/24 06:52:55 pm	0.038	113	16.22		
	Replicates	66.8	100.3	126.7	157.9						
HS24051071-10					UNK	05/30/24 06:54:38 pm	0.016	-22	32.81		
	Replicates	-70.7	-18.8	-7.2	7.0						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051071-11					UNK	05/30/24 06:56:21 pm	0.013	-41	53.37		
	Replicates	-107.5	-30.6	-14.4	-11.4						
MBLK-212788					UNK	05/30/24 06:59:02 pm	0.014	-35	52.44		
	Replicates	-98.5	-43.7	-7.1	7.7						
LCS-212788					UNK	05/30/24 07:00:45 pm	4.650	29357	0.52		
	Replicates	29128.6	29419.7	29454.3	29423.5						
HS24050719-07					UNK	05/30/24 07:02:28 pm	0.039	123	29.80		
	Replicates	32.5	98.2	155.9	203.8						
HS24050719-08					UNK	05/30/24 07:04:10 pm	0.044	154	18.04		
	Replicates	95.2	132.2	177.2	210.0						
CCV					UNK	05/30/24 07:07:19 pm	4.810	30328	0.23		
	Replicates	30225.8	30368.3	30375.1	30342.1						
CCB					UNK	05/30/24 07:09:03 pm	-0.010	-186	93.06		
	Replicates	-262.8	-192.7	-148.1	-140.3						
HS24050719-09					UNK	05/30/24 07:10:46 pm	0.007	-83	101.89		
	Replicates	-136.7	-83.7	-81.4	-30.6						
HS24050719-10					UNK	05/30/24 07:12:28 pm	0.052	201	14.67		
	Replicates	157.4	181.1	197.4	268.8						
HS24050719-11					UNK	05/30/24 07:14:10 pm	0.017	-17	47.77		
	Replicates	-78.8	-39.7	20.4	32.2						
HS24050719-12					UNK	05/30/24 07:15:53 pm	0.301	1783	3.09		
	Replicates	1701.9	1776.9	1825.3	1827.9						
HS24050719-13					UNK	05/30/24 07:17:35 pm	0.879	5440	2.08		
	Replicates	5321.9	5368.8	5492.0	5576.2						
HS24050719-14					UNK	05/30/24 07:19:17 pm	1.010	6287	31.15		
	Replicates	4626.1	4917.0	6633.4	8972.6						
HS24050968-01					UNK	05/30/24 07:21:00 pm	-0.002	-136	545.82		
	Replicates	-190.4	-172.6	-97.8	-81.2						
HS24050968-02					UNK	05/30/24 07:22:43 pm	0.024	27	34.28		
	Replicates	-37.6	15.1	45.1	87.1						
HS24050968-03					UNK	05/30/24 07:24:25 pm	0.005	-94	104.31		
	Replicates	-129.4	-111.8	-78.3	-54.5						
HS24051077-01					UNK	05/30/24 07:26:08 pm	0.008	-75	121.74		
	Replicates	-154.9	-68.1	-72.1	-4.1						
CCV					UNK	05/30/24 07:30:13 pm	4.780	30149	0.31		
	Replicates	30012.8	30206.3	30218.9	30156.8						
CCB					UNK	05/30/24 07:31:57 pm	-0.006	-161	177.69		
	Replicates	-245.0	-143.4	-163.0	-93.2						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051263-05				UNK	05/30/24 07:33:39 pm	0.082	391	10.21		
Replicates	329.4	380.4	395.8	457.4						
HS24051263-06				UNK	05/30/24 07:35:22 pm	0.071	321	11.48		
Replicates	255.1	310.9	344.0	375.0						
HS24051399-01				UNK	05/30/24 07:37:04 pm	0.003	-108	341.03		
Replicates	-193.4	-109.8	-71.2	-55.8						
HS24051438-01				UNK	05/30/24 07:38:47 pm	0.028	52	32.93		
Replicates	-15.8	25.0	86.2	113.6						
HS24051438-01MS				UNK	05/30/24 07:40:30 pm	4.770	30116	0.85		
Replicates	29751.8	30127.1	30255.7	30328.1						
HS24051438-01MSD				UNK	05/30/24 07:42:12 pm	4.700	29652	0.61		
Replicates	29416.8	29612.7	29736.3	29841.1						
HS24051493-01				UNK	05/30/24 07:43:55 pm	0.036	103	39.47		
Replicates	-11.4	83.1	137.5	201.3						
HS24051494-01				UNK	05/30/24 07:45:37 pm	0.028	54	17.64		
Replicates	58.6	92.4	48.4	15.6						
HS24051611-02				UNK	05/30/24 07:47:20 pm	0.018	-14	38.24		
Replicates	-63.3	-20.5	-11.4	41.2						
MBLK-212789				UNK	05/30/24 07:49:03 pm	0.028	53	23.45		
Replicates	9.5	28.3	70.5	102.3						
CCV				UNK	05/30/24 07:52:30 pm	4.770	30095	0.63		
Replicates	29812.5	30166.3	30227.3	30173.1						
CCB				UNK	05/30/24 07:54:14 pm	-0.001	-133	772.06		
Replicates	-184.6	-168.6	-118.6	-59.8						
LCS-212789				UNK	05/30/24 07:55:57 pm	4.480	28238	1.16		
Replicates	27831.6	28138.8	28388.2	28591.6						
HS24051228-01				UNK	05/30/24 07:57:40 pm	-0.041	-387	12.68		
Replicates	-417.1	-410.5	-376.5	-345.3						
HS24051276-01				UNK	05/30/24 07:59:22 pm	0.008	-76	59.95		
Replicates	-106.4	-73.4	-87.2	-35.6						
HS24051277-01				UNK	05/30/24 08:01:05 pm	0.023	21	27.91		
Replicates	-33.1	14.3	41.9	61.3						
HS24051277-01MS				UNK	05/30/24 08:08:04 pm	4.830	30443	0.79		
Replicates	30628.1	30674.4	30227.8	30242.3						
HS24051277-01MSD				UNK	05/30/24 08:09:47 pm	4.730	29858	0.40		
Replicates	29689.2	29865.2	29918.0	29961.2						
MBLK-212790				UNK	05/30/24 08:13:07 pm	0.001	-121	077.59		
Replicates	-186.6	-117.9	-109.1	-70.9						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-212790					UNK	05/30/24 08:14:49 pm	4.580	28853	0.73		
	Replicates	29125.6	28793.3	28614.8	28879.9						
HS24050916-01					UNK	05/30/24 08:16:32 pm	-0.007	-168	147.63		
	Replicates	-238.3	-198.1	-138.9	-96.8						
HS24050984-01					UNK	05/30/24 08:18:14 pm	0.123	655	20.09		
	Replicates	462.8	645.9	846.7	666.5						
CCV					UNK	05/30/24 08:21:09 pm	4.780	30136	0.42		
	Replicates	29949.9	30171.8	30222.8	30200.4						
CCB					UNK	05/30/24 08:22:53 pm	-0.001	-133	697.94		
	Replicates	-196.9	-144.6	-114.5	-75.8						
HS24050984-02					UNK	05/30/24 08:24:35 pm	0.017	-16	40.45		
	Replicates	-67.2	-34.3	1.5	35.1						
HS24050984-02MS					UNK	05/30/24 08:26:18 pm	4.410	27818	0.46		
	Replicates	27629.4	27852.9	27901.3	27887.3						
HS24050984-02MSD					UNK	05/30/24 08:28:01 pm	4.370	27544	0.57		
	Replicates	27308.7	27590.4	27633.2	27642.2						
HS24050984-03					UNK	05/30/24 08:29:44 pm	-0.011	-195	79.54		
	Replicates	-263.4	-208.6	-171.6	-134.8						
HS24050984-04					UNK	05/30/24 08:31:26 pm	0.006	-85	86.03		
	Replicates	-127.2	-94.4	-73.3	-43.5						
HS24050984-05					UNK	05/30/24 08:33:09 pm	0.001	-118	624.54		
	Replicates	-170.9	-132.6	-105.1	-65.3						
HS24050984-06					UNK	05/30/24 08:34:52 pm	0.023	18	38.86		
	Replicates	-53.7	5.1	44.9	75.5						
HS24050984-07					UNK	05/30/24 08:36:35 pm	0.009	-71	121.83		
	Replicates	-143.8	-102.9	-45.8	8.9						
HS24050984-08					UNK	05/30/24 08:38:18 pm	0.009	-66	67.10		
	Replicates	-107.0	-92.7	-42.3	-23.9						
HS24050984-09					UNK	05/30/24 08:40:01 pm	-0.002	-138	386.73		
	Replicates	-205.1	-143.8	-114.6	-90.2						
CCV					UNK	05/30/24 08:44:09 pm	4.750	29985	0.63		
	Replicates	29704.4	30039.2	30103.6	30092.9						
CCB					UNK	05/30/24 08:45:53 pm	0.001	-119	819.26		
	Replicates	-173.5	-153.6	-98.0	-50.0						
HS24050984-10					UNK	05/30/24 08:47:35 pm	0.017	-16	47.02		
	Replicates	-64.3	-51.6	4.4	46.6						
HS24050984-11					UNK	05/30/24 08:49:18 pm	3.800	23926	0.70		
	Replicates	23679.6	23959.8	24026.0	24037.6						

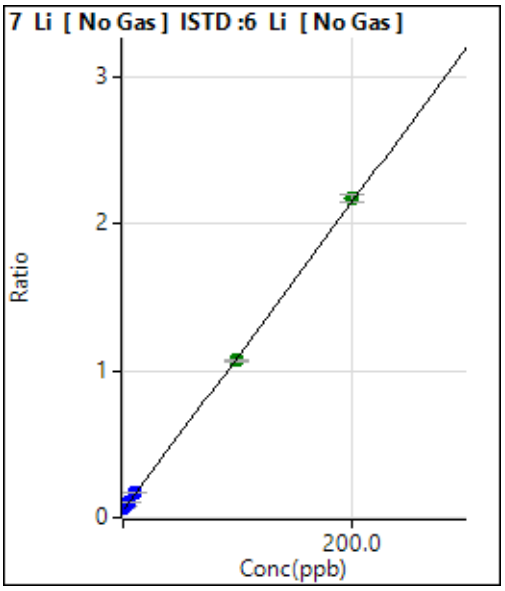
Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24050984-12				UNK	05/30/24 08:51:01 pm	0.119	626	5.72		
Replicates	562.8	638.8	647.0	656.8						
HS24050984-13				UNK	05/30/24 08:52:44 pm	1.100	6873	2.75		
Replicates	6635.5	6812.9	6959.7	7081.9						
HS24050984-14				UNK	05/30/24 08:54:27 pm	0.004	-97	123.30		
Replicates	-132.4	-120.8	-76.9	-59.3						
HS24050984-15 X2				UNK	05/30/24 08:58:51 pm	6.450	40755	1.16		
Replicates	40065.1	40824.4	41091.1	41038.3						
HS24050984-16				UNK	05/30/24 09:00:34 pm	-0.008	-175	134.93		
Replicates	-246.5	-208.5	-147.3	-96.5						
HS24051071-01				UNK	05/30/24 09:02:17 pm	0.003	-106	230.43		
Replicates	-151.5	-131.1	-92.0	-50.0						
HS24051071-02				UNK	05/30/24 09:04:00 pm	1.640	10273	1.97		
Replicates	9994.7	10253.3	10377.8	10466.5						
HS24051071-02MS				UNK	05/30/24 09:05:43 pm	6.290	39691	0.44		
Replicates	39429.8	39732.4	39797.1	39804.6						
CCV				UNK	05/30/24 09:09:22 pm	4.760	30001	0.46		
Replicates	29805.0	30095.3	30096.9	30007.3						
CCB				UNK	05/30/24 09:11:45 pm	0.022	14	30.35		
Replicates	-35.0	-2.1	31.6	63.5						
HS24051071-02MSD				UNK	05/30/24 09:13:28 pm	6.200	39114	0.77		
Replicates	38681.1	39134.2	39307.2	39334.8						
HS24051071-03				UNK	05/30/24 09:15:11 pm	0.706	4343	5.05		
Replicates	4116.8	4223.2	4400.6	4632.6						
MBLK-212791				UNK	05/30/24 09:16:54 pm	0.015	-32	44.50		
Replicates	-86.1	-40.5	-11.9	10.5						
LCS-212791				UNK	05/30/24 09:18:37 pm	4.520	28494	1.49		
Replicates	27880.8	28525.6	28764.3	28806.6						
HS24051071-04				UNK	05/30/24 09:20:20 pm	0.008	-73	87.30		
Replicates	-125.8	-92.5	-51.9	-19.7						
HS24051071-05				UNK	05/30/24 09:22:03 pm	0.021	7	38.98		
Replicates	-56.8	3.1	13.1	69.7						
HS24051071-06				UNK	05/30/24 09:23:46 pm	0.081	389	9.63		
Replicates	351.3	348.9	403.6	453.3						
HS24051071-07				UNK	05/30/24 09:25:29 pm	0.041	132	24.41		
Replicates	65.0	115.1	133.3	216.5						
HS24051071-07MS				UNK	05/30/24 09:31:23 pm	4.710	29679	0.81		
Replicates	29320.3	29754.2	29826.2	29813.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051071-07MSD					UNK	05/30/24 09:33:06 pm	4.720	29745	0.59		
	Replicates	29483.8	29824.8	29822.8	29850.1						
CCV					UNK	05/30/24 09:35:34 pm	4.690	29571	1.13		
	Replicates	29075.5	29660.3	29769.6	29779.2						
CCB					UNK	05/30/24 09:37:17 pm	-0.002	-136	637.54		
	Replicates	-213.9	-166.1	-109.5	-55.9						
HS24051071-08					UNK	05/30/24 09:39:01 pm	0.060	255	14.17		
	Replicates	185.5	249.0	268.0	315.6						
HS24051071-09					UNK	05/30/24 09:40:44 pm	0.042	141	25.10		
	Replicates	74.8	96.3	177.9	216.6						
HS24051071-10					UNK	05/30/24 09:42:27 pm	0.013	-44	66.89		
	Replicates	-114.5	-32.1	-46.7	18.1						
HS24051071-11					UNK	05/30/24 09:44:10 pm	0.021	6	41.84		
	Replicates	-56.4	-20.9	34.3	66.5						
CCV					UNK	05/30/24 09:48:08 pm	3.940	24817	8.06		
	Replicates	22738.3	23796.9	25373.9	27357.5						
CCV					UNK	05/30/24 09:51:22 pm	4.720	29793	0.47		
	Replicates	29655.2	29938.1	29887.9	29692.5						
CCB					UNK	05/30/24 09:53:06 pm	-0.007	-172	119.81		
	Replicates	-237.7	-185.8	-162.0	-103.2						

Calibration for 295_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

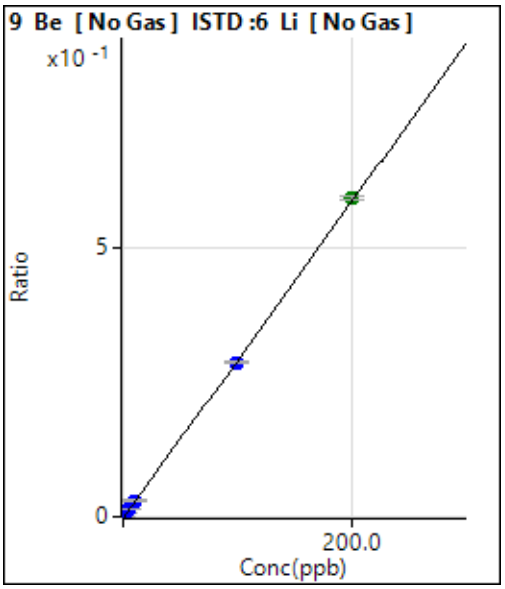
Level	Standard Data File	Sample Name	Acq. Date-Time
1	288CALB.d	CAL BLK	5/29/2024 11:29:22 PM
2	289CALS.d	2/10/200	5/29/2024 11:31:53 PM
3	290CALS.d	5/25/500	5/29/2024 11:34:23 PM
4	291CALS.d	10/50/100	5/29/2024 11:36:53 PM
5	292CALS.d	100/500/10K	5/29/2024 11:39:22 PM
6	293CALS.d	200/1000/20K	5/29/2024 11:41:54 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	82853.43	0.0598	P	0.6	
2	☐	2.000	2.018	114313.90	0.0809	P	1.8	0.9
3	☐	5.000	4.688	157349.63	0.1088	P	1.4	-6.2
4	☐	10.000	10.479	236506.17	0.1694	P	4.3	4.8
5	☐	100.000	96.451	1467176.85	1.0690	A	1.5	-3.5
6	☐	200.000	201.758	2739034.75	2.1709	A	1.9	0.9

y = 0.0105 * x + 0.0598
R = 0.9998
DL = 0.1026 ppb
BEC = 5.712 ppb

Weight: <None>
Min Conc: <None>

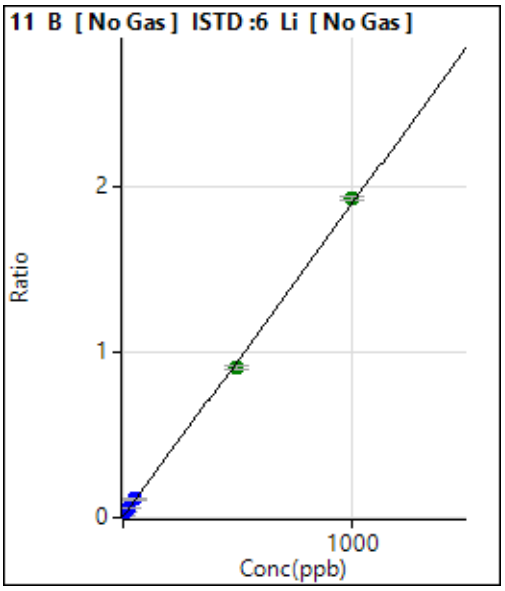


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38.33	0.0000	P	3.5	
2	☐	2.000	2.062	8622.68	0.0061	P	4.2	3.1
3	☐	5.000	4.614	19693.75	0.0136	P	5.7	-7.7
4	☐	10.000	10.125	41664.20	0.0299	P	6.3	1.2
5	☐	100.000	97.234	393267.98	0.2865	P	1.4	-2.8
6	☐	200.000	201.386	748765.75	0.5934	A	1.6	0.7

y = 0.0029 * x + 2.7632E-005
R = 0.9999
DL = 0.0009863 ppb
BEC = 0.009377 ppb

Weight: <None>
Min Conc: <None>

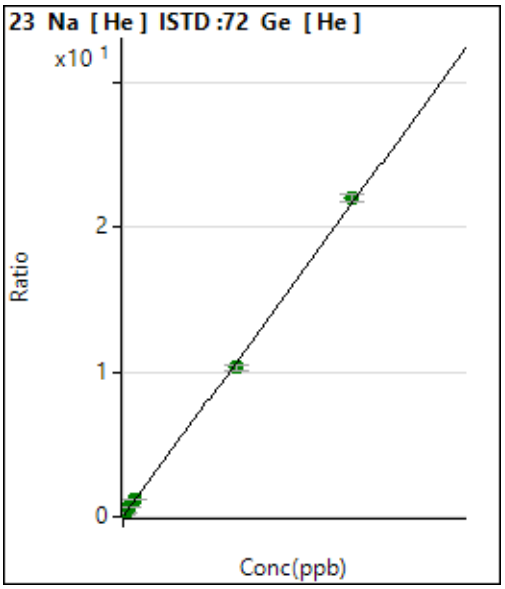
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20770.27	0.0150	P	1.0	
2	☐	10.000	10.045	47924.03	0.0339	P	4.7	0.4
3	☐	25.000	22.588	83262.77	0.0576	P	2.9	-9.6
4	☐	50.000	51.044	155296.08	0.1113	P	5.1	2.1
5	☐	500.000	471.739	1241578.42	0.9047	A	1.9	-5.7
6	☐	1000.000	1014.138	2432232.36	1.9277	A	1.5	1.4

y = 0.0019 * x + 0.0150
R = 0.9994
DL = 0.2328 ppb
BEC = 7.946 ppb

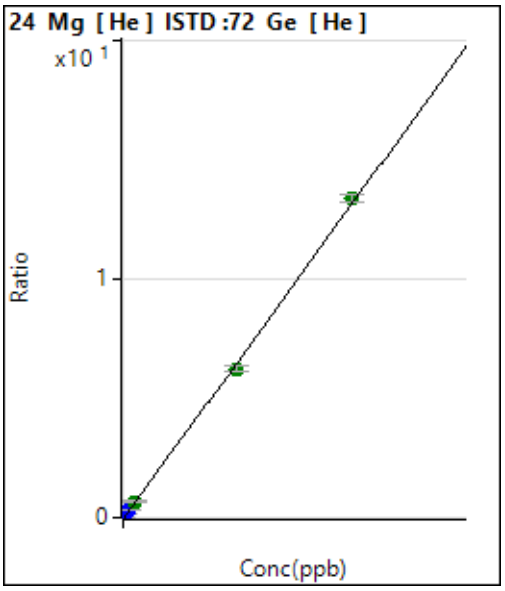
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236705.43	0.1312	P	2.1	
2	☐	200.000	177.096	580552.74	0.3221	A	0.2	-11.5
3	☐	500.000	444.787	1074124.83	0.6108	A	2.7	-11.0
4	☐	1000.000	1028.264	2084495.65	1.2400	A	0.6	2.8
5	☐	10000.00	9423.364	17332273.91	10.2930	A	4.6	-5.8
6	☐	20000.00	20288.51	36460995.29	22.0095	A	2.1	1.4

y = 0.0011 * x + 0.1312
R = 0.9994
DL = 7.726 ppb
BEC = 121.6 ppb

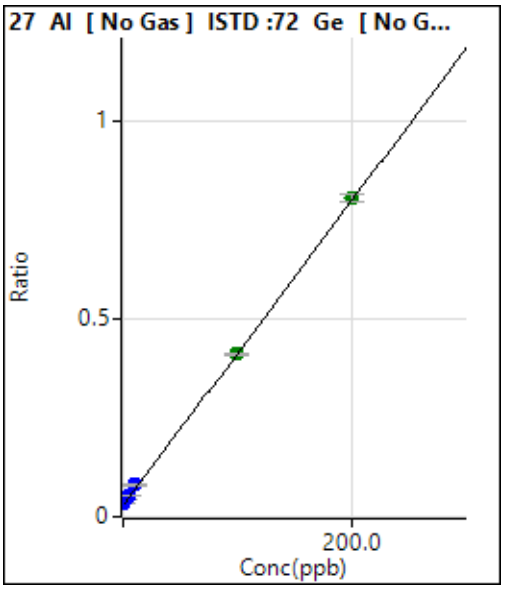
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2170.20	0.0012	P	8.7	
2	☐	200.000	184.407	222028.19	0.1232	P	0.3	-7.8
3	☐	500.000	457.992	534937.61	0.3042	P	2.5	-8.4
4	☐	1000.000	1035.248	1153389.56	0.6861	A	1.3	3.5
5	☐	10000.00	9448.447	10527448.38	6.2517	A	4.4	-5.5
6	☐	20000.00	20275.22	22220910.50	13.4140	A	2.4	1.4

y = 6.6154E-004 * x + 0.0012
R = 0.9995
DL = 0.4765 ppb
BEC = 1.819 ppb

Weight: <None>
Min Conc: <None>

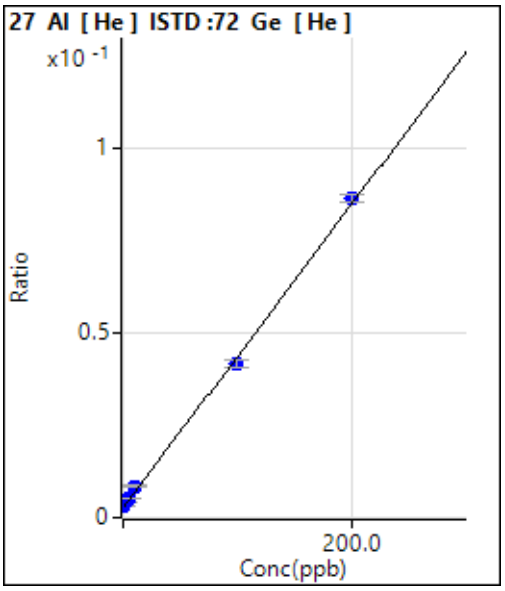


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	177580.38	0.0329	P	3.3	
2	☐	2.000	2.794	241448.79	0.0437	P	8.0	39.7
3	☐	5.000	5.247	301864.31	0.0531	P	4.5	4.9
4	☐	10.000	12.527	439241.42	0.0812	P	3.5	25.3
5	☐	100.000	98.098	2230405.33	0.4113	A	1.2	-1.9
6	☐	200.000	200.811	4215210.46	0.8074	A	2.6	0.4

y = 0.0039 * x + 0.0329
R = 0.9999
DL = 0.8533 ppb
BEC = 8.53 ppb

Weight: <None>
Min Conc: <None>

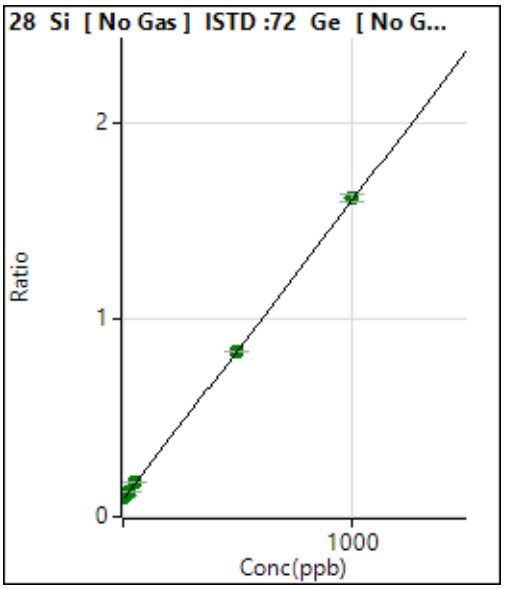
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5554.52	0.0031	P	3.9	
2	☐	2.000	2.471	7372.10	0.0041	P	6.8	23.6
3	☐	5.000	5.629	9473.33	0.0054	P	0.5	12.6
4	☐	10.000	12.926	14090.63	0.0084	P	5.1	29.3
5	☐	100.000	93.881	70000.65	0.0416	P	4.4	-6.1
6	☐	200.000	202.893	142910.80	0.0863	P	2.8	1.4

y = 4.1001E-004 * x + 0.0031
R = 0.9992
DL = 0.8702 ppb
BEC = 7.507 ppb

Weight: <None>
Min Conc: <None>

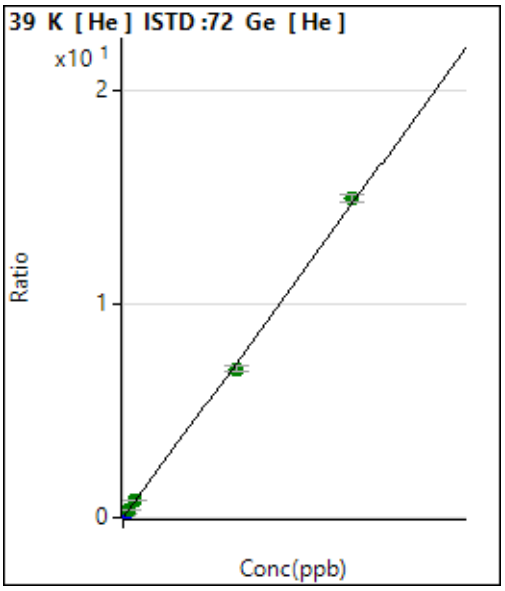


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	513963.77	0.0952	A	3.0	
2	☐	10.000	8.774	600764.95	0.1085	A	4.6	-12.3
3	☐	25.000	20.156	714774.96	0.1258	A	2.2	-19.4
4	☐	50.000	51.822	939971.76	0.1738	A	2.9	3.6
5	☐	500.000	489.408	4539963.37	0.8371	A	0.6	-2.1
6	☐	1000.000	1005.338	8452635.08	1.6191	A	2.5	0.5

y = 0.0015 * x + 0.0952
R = 0.9999
DL = 5.721 ppb
BEC = 62.83 ppb

Weight: <None>
Min Conc: <None>

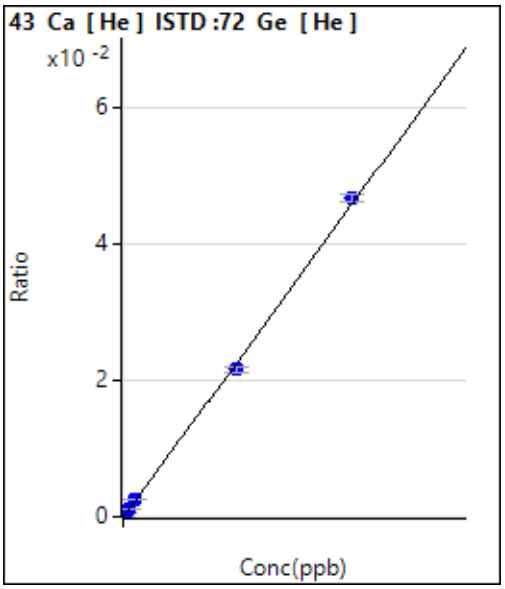
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124399.33	0.0689	P	1.8	
2	☐	200.000	186.136	370738.41	0.2057	P	0.8	-6.9
3	☐	500.000	450.852	703895.02	0.4002	A	2.3	-9.8
4	☐	1000.000	1040.572	1401457.06	0.8336	A	0.3	4.1
5	☐	10000.00	9405.403	11756917.74	6.9809	A	3.3	-5.9
6	☐	20000.00	20296.63	24821081.30	14.9848	A	2.5	1.5

y = 7.3489E-004 * x + 0.0689
R = 0.9994
DL = 5.023 ppb
BEC = 93.79 ppb

Weight: <None>
Min Conc: <None>

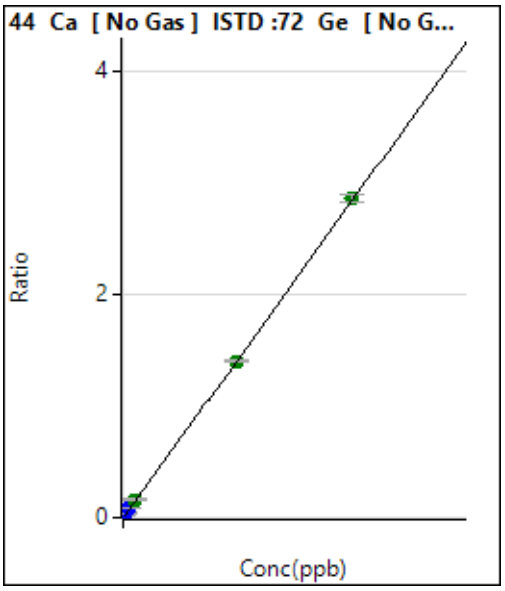


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	123.34	0.0001	P	77.1	
2	☐	200.000	201.426	960.05	0.0005	P	12.9	0.7
3	☐	500.000	432.769	1873.49	0.0011	P	9.6	-13.4
4	☐	1000.000	1056.165	4207.38	0.0025	P	5.5	5.6
5	☐	10000.00	9357.228	36391.45	0.0216	P	4.0	-6.4
6	☐	20000.00	20320.24	77599.27	0.0468	P	2.1	1.6

y = 2.3020E-006 * x + 6.8961E-005
R = 0.9993
DL = 69.26 ppb
BEC = 29.96 ppb

Weight: <None>
Min Conc: <None>

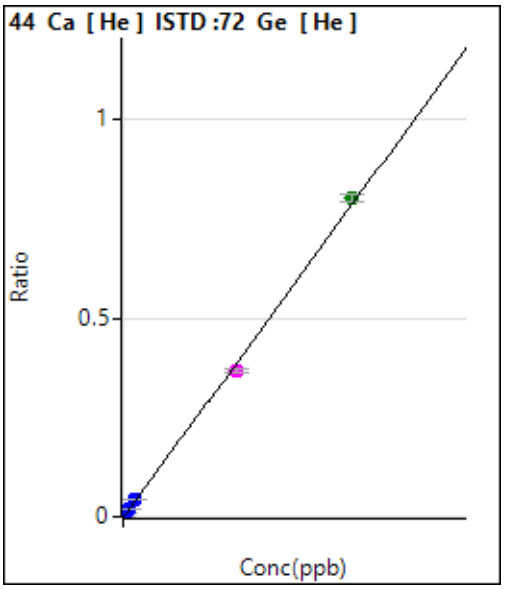
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55624.40	0.0103	P	4.1	
2	☐	200.000	225.406	233972.54	0.0423	P	7.4	12.7
3	☐	500.000	505.635	466401.96	0.0821	P	4.5	1.1
4	☐	1000.000	1057.817	867753.06	0.1605	A	5.0	5.8
5	☐	10000.00	9818.487	7616608.01	1.4044	A	1.0	-1.8
6	☐	20000.00	20087.47	14943268.95	2.8624	A	2.7	0.4

y = 1.4198E-004 * x + 0.0103
R = 0.9999
DL = 9.036 ppb
BEC = 72.62 ppb

Weight: <None>
Min Conc: <None>

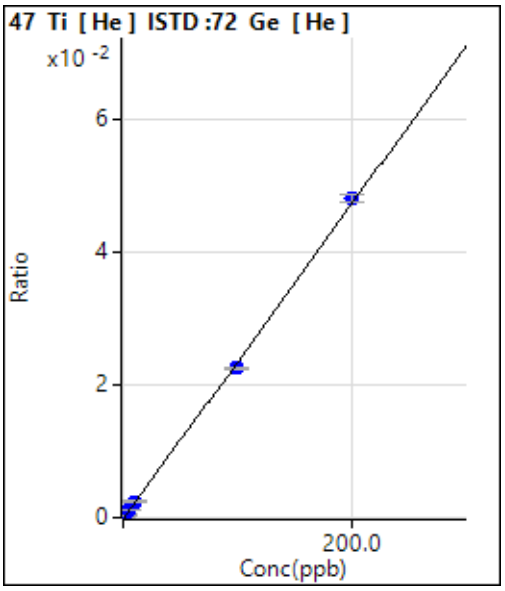


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2456.93	0.0014	P	4.9	
2	☐	200.000	188.960	15855.95	0.0088	P	3.9	-5.5
3	☐	500.000	452.577	33717.87	0.0192	P	3.6	-9.5
4	☐	1000.000	1033.089	70659.63	0.0420	P	1.3	3.3
5	☐	10000.00	9300.883	618795.28	0.3674	M	3.7	-7.0
6	☐	20000.00	20349.20	1328904.04	0.8023	A	2.4	1.7

y = 3.9359E-005 * x + 0.0014
R = 0.9991
DL = 5.061 ppb
BEC = 34.59 ppb

Weight: <None>
Min Conc: <None>

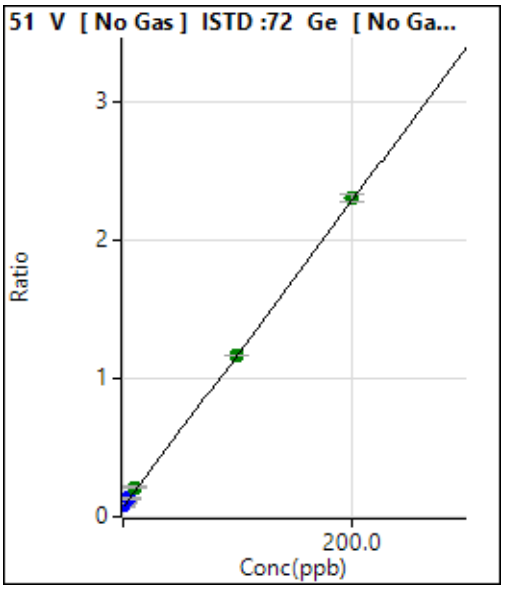
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.2	
2	☐	2.000	1.760	763.37	0.0004	P	11.0	-12.0
3	☐	5.000	4.680	1963.51	0.0011	P	14.2	-6.4
4	☐	10.000	10.056	4020.68	0.0024	P	6.1	0.6
5	☐	100.000	94.768	37938.85	0.0225	P	1.8	-5.2
6	☐	200.000	202.624	79761.71	0.0482	P	1.9	1.3

y = 2.3761E-004 * x + 5.4644E-006
R = 0.9995
DL = 0.06845 ppb
BEC = 0.023 ppb

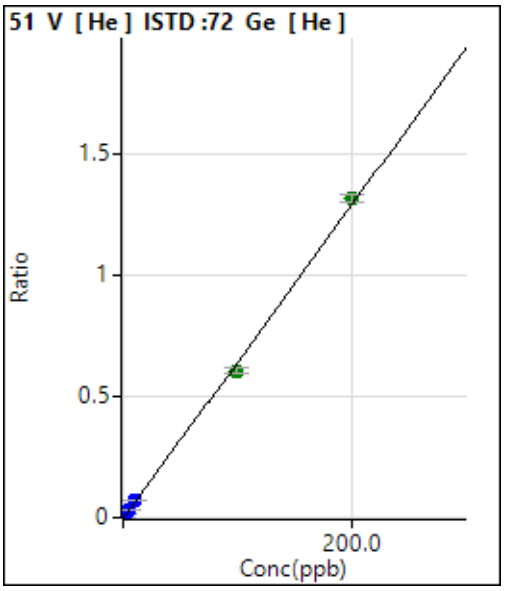
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	431881.63	0.0802	P	10.7	
2	☐	2.000	2.556	598867.20	0.1084	P	10.9	27.8
3	☐	5.000	4.843	759592.39	0.1337	P	6.6	-3.1
4	☐	10.000	11.678	1131247.23	0.2093	A	6.1	16.8
5	☐	100.000	97.696	6294913.08	1.1606	A	0.2	-2.3
6	☐	200.000	201.066	12026628.70	2.3038	A	3.0	0.5

y = 0.0111 * x + 0.0802
R = 0.9999
DL = 2.334 ppb
BEC = 7.25 ppb

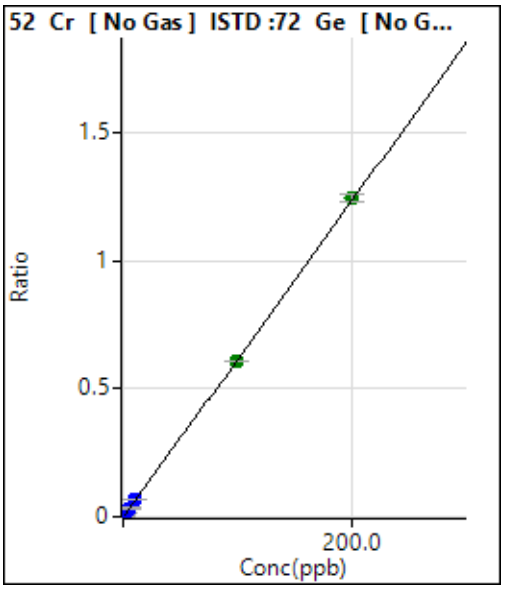
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3674.95	0.0020	P	1.6	
2	☐	2.000	1.800	24640.86	0.0137	P	1.3	-10.0
3	☐	5.000	4.522	54971.84	0.0313	P	4.4	-9.6
4	☐	10.000	10.368	116099.70	0.0690	P	0.7	3.7
5	☐	100.000	93.473	1020928.81	0.6062	A	3.3	-6.5
6	☐	200.000	203.259	2179392.62	1.3158	A	2.7	1.6

y = 0.0065 * x + 0.0020
R = 0.9993
DL = 0.01505 ppb
BEC = 0.3149 ppb

Weight: <None>
Min Conc: <None>

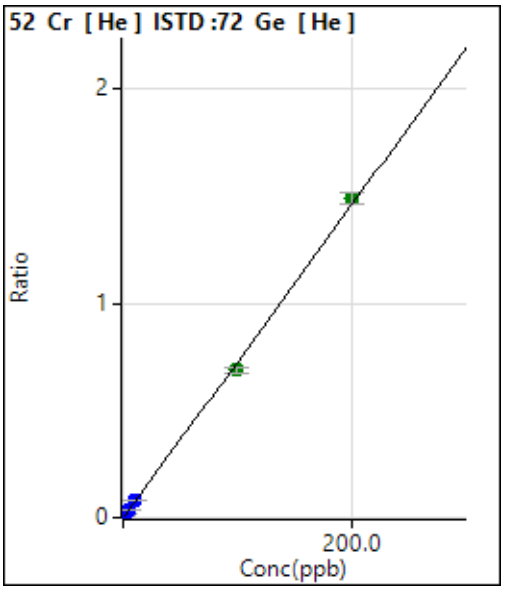


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20755.87	0.0039	P	9.1	
2	☐	2.000	2.115	93488.99	0.0169	P	9.5	5.8
3	☐	5.000	4.732	187950.20	0.0331	P	5.0	-5.4
4	☐	10.000	10.551	373277.69	0.0690	P	4.4	5.5
5	☐	100.000	97.979	3304114.53	0.6092	A	0.7	-2.0
6	☐	200.000	200.989	6502829.07	1.2457	A	3.0	0.5

y = 0.0062 * x + 0.0039
R = 0.9999
DL = 0.1693 ppb
BEC = 0.6234 ppb

Weight: <None>
Min Conc: <None>

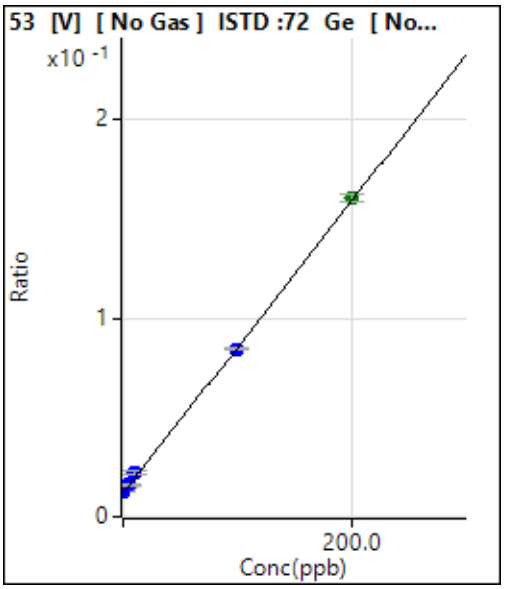
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10053.83	0.0056	P	5.2	
2	☐	2.000	1.824	34068.93	0.0189	P	0.8	-8.8
3	☐	5.000	4.631	69306.78	0.0394	P	3.8	-7.4
4	☐	10.000	10.568	139201.90	0.0828	P	1.3	5.7
5	☐	100.000	93.496	1160042.51	0.6888	A	3.4	-6.5
6	☐	200.000	203.234	2469095.17	1.4907	A	3.0	1.6

y = 0.0073 * x + 0.0056
R = 0.9993
DL = 0.1185 ppb
BEC = 0.7623 ppb

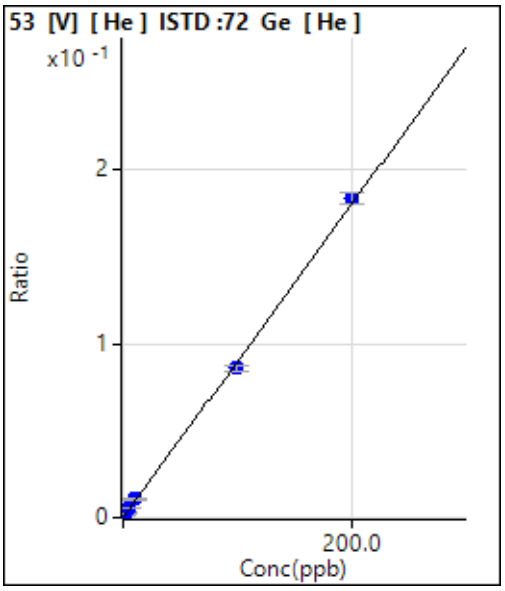
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68972.27	0.0128	P	10.4	
2	☐	2.000	3.195	83669.23	0.0152	P	11.1	59.7
3	☐	5.000	4.696	92317.41	0.0163	P	8.2	-6.1
4	☐	10.000	12.944	120639.06	0.0223	P	6.8	29.4
5	☐	100.000	97.615	459025.63	0.0846	P	0.4	-2.4
6	☐	200.000	201.041	839074.44	0.1607	A	2.8	0.5

y = 7.3580E-004 * x + 0.0128
R = 0.9998
DL = 5.433 ppb
BEC = 17.4 ppb

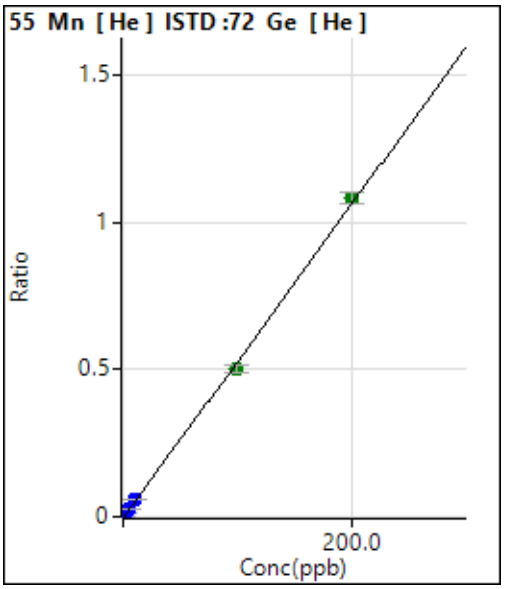
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1636.80	0.0009	P	6.7	
2	☐	2.000	2.057	4970.99	0.0028	P	2.9	2.9
3	☐	5.000	4.734	9086.48	0.0052	P	4.5	-5.3
4	☐	10.000	10.716	17748.39	0.0106	P	1.4	7.2
5	☐	100.000	94.353	144580.46	0.0859	P	3.7	-5.6
6	☐	200.000	202.794	303876.26	0.1835	P	3.4	1.4

y = 9.0031E-004 * x + 9.0590E-004
R = 0.9994
DL = 0.2022 ppb
BEC = 1.006 ppb

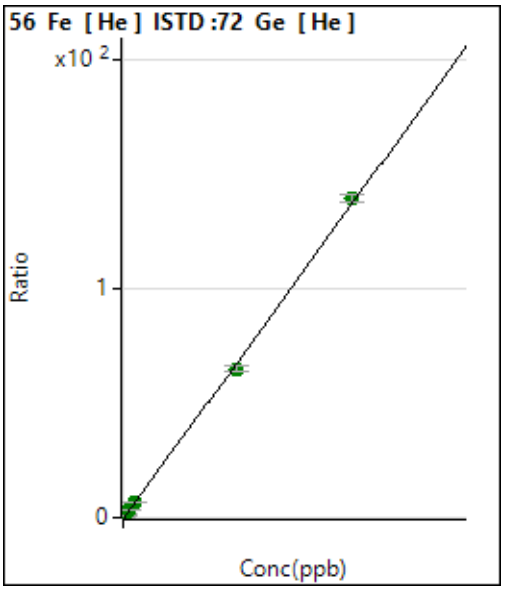
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	953.38	0.0005	P	13.2	
2	☐	2.000	1.851	18763.02	0.0104	P	3.0	-7.4
3	☐	5.000	4.520	43365.21	0.0247	P	3.9	-9.6
4	☐	10.000	10.390	94163.40	0.0560	P	0.8	3.9
5	☐	100.000	94.113	846978.24	0.5030	A	4.2	-5.9
6	☐	200.000	202.938	1795214.50	1.0839	A	3.3	1.5

y = 0.0053 * x + 5.2873E-004
R = 0.9994
DL = 0.03919 ppb
BEC = 0.09904 ppb

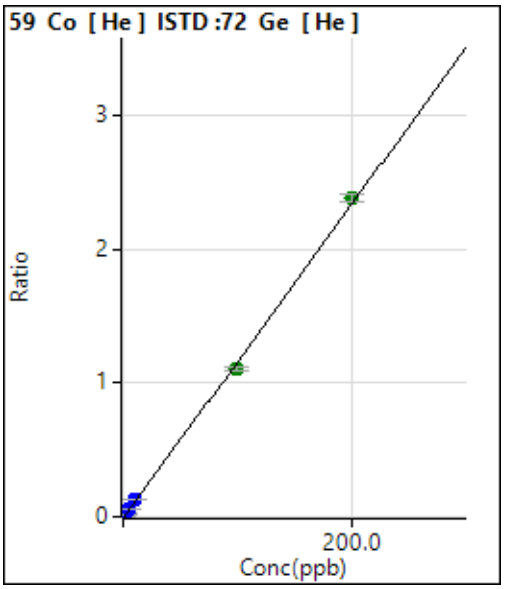
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24996.37	0.0138	P	1.4	
2	☐	200.000	182.813	2295384.34	1.2737	A	2.0	-8.6
3	☐	500.000	452.948	5513428.04	3.1352	A	3.0	-9.4
4	☐	1000.000	1029.279	11947450.66	7.1069	A	0.2	2.9
5	☐	10000.00	9446.866	109651095.0	65.1151	A	4.2	-5.5
6	☐	20000.00	20276.45	231461823.2	139.745	A	2.7	1.4

y = 0.0069 * x + 0.0138
R = 0.9995
DL = 0.08714 ppb
BEC = 2.009 ppb

Weight: <None>
Min Conc: <None>

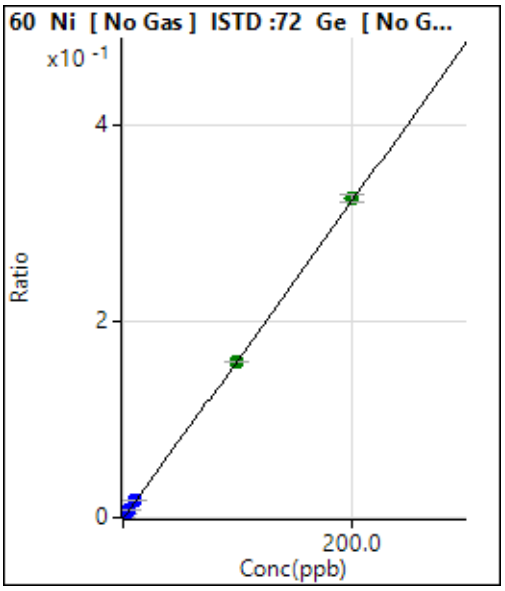


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	55.7	
2	☐	2.000	1.856	39266.20	0.0218	P	2.6	-7.2
3	☐	5.000	4.579	94466.03	0.0537	P	2.7	-8.4
4	☐	10.000	10.450	206013.82	0.1226	P	0.5	4.5
5	☐	100.000	93.861	1853412.63	1.1005	A	3.0	-6.1
6	☐	200.000	203.059	3943199.52	2.3807	A	2.9	1.5

y = 0.0117 * x + 3.1622E-005
R = 0.9993
DL = 0.004507 ppb
BEC = 0.002697 ppb

Weight: <None>
Min Conc: <None>

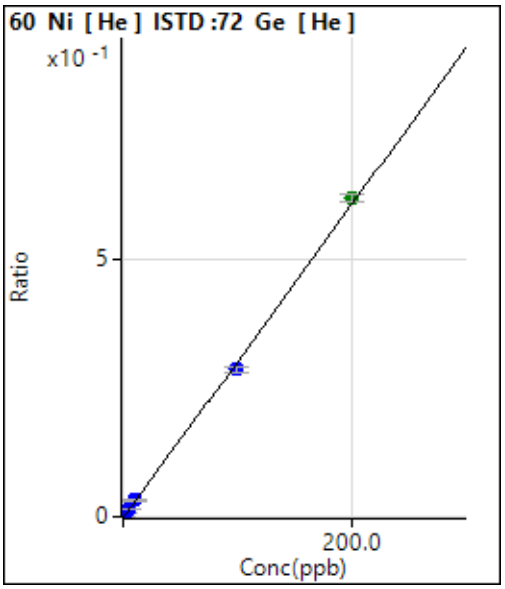
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1763.48	0.0003	P	6.3	
2	☐	2.000	2.064	20278.46	0.0037	P	8.3	3.2
3	☐	5.000	4.706	45144.69	0.0079	P	5.7	-5.9
4	☐	10.000	10.526	93922.72	0.0174	P	4.6	5.3
5	☐	100.000	97.934	861888.66	0.1589	A	0.6	-2.1
6	☐	200.000	201.013	1701047.99	0.3258	A	2.4	0.5

y = 0.0016 * x + 3.2687E-004
R = 0.9999
DL = 0.03811 ppb
BEC = 0.2019 ppb

Weight: <None>
Min Conc: <None>

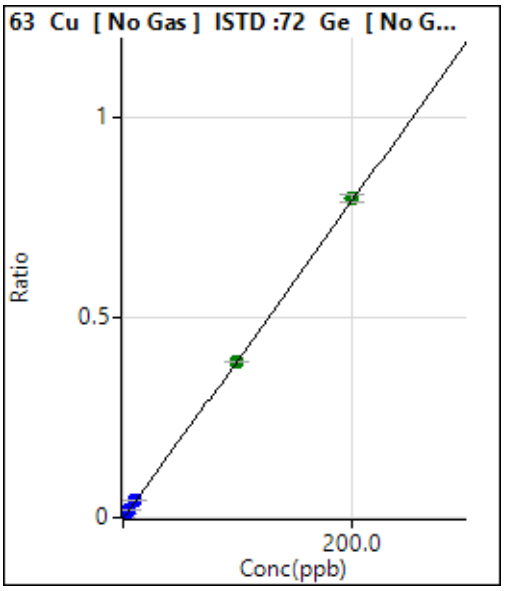


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	830.04	0.0005	P	9.6	
2	☐	2.000	1.911	11301.47	0.0063	P	3.8	-4.4
3	☐	5.000	4.524	24989.71	0.0142	P	5.6	-9.5
4	☐	10.000	10.338	53580.94	0.0319	P	2.3	3.4
5	☐	100.000	93.579	479937.05	0.2850	P	3.1	-6.4
6	☐	200.000	203.206	1024075.61	0.6182	A	2.2	1.6

y = 0.0030 * x + 4.6013E-004
R = 0.9993
DL = 0.04355 ppb
BEC = 0.1514 ppb

Weight: <None>
Min Conc: <None>

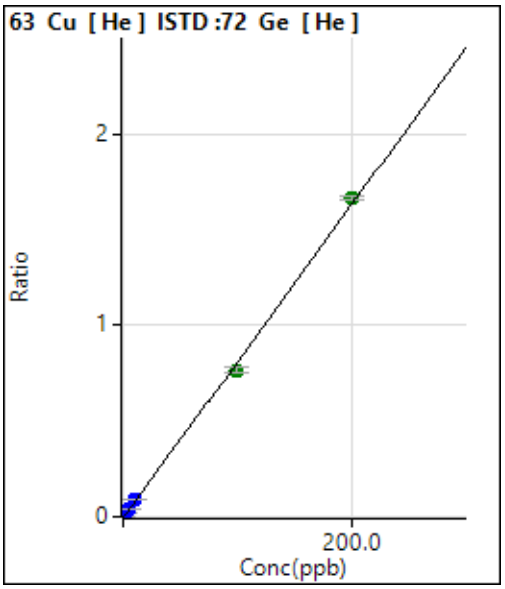
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4267.40	0.0008	P	11.4	
2	☐	2.000	2.127	51031.76	0.0092	P	8.6	6.4
3	☐	5.000	4.752	111667.80	0.0197	P	3.3	-5.0
4	☐	10.000	10.655	232998.11	0.0431	P	3.7	6.5
5	☐	100.000	97.977	2114060.86	0.3898	A	0.5	-2.0
6	☐	200.000	200.983	4170166.40	0.7987	A	1.9	0.5

y = 0.0040 * x + 7.8786E-004
R = 0.9999
DL = 0.06781 ppb
BEC = 0.1984 ppb

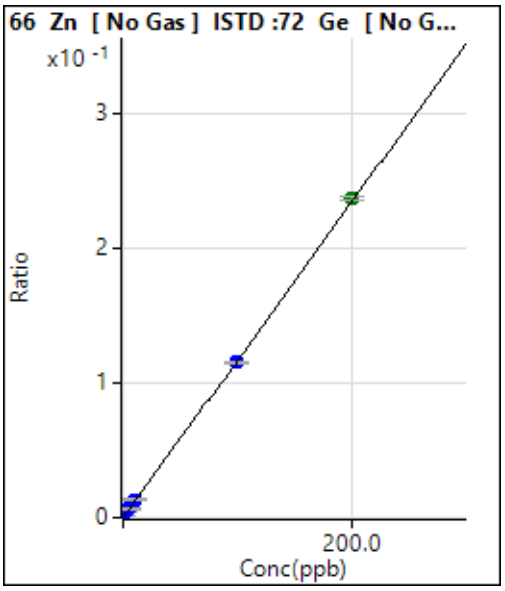
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2176.88	0.0012	P	7.1	
2	☐	2.000	1.863	29709.00	0.0165	P	1.0	-6.9
3	☐	5.000	4.542	67649.48	0.0385	P	2.4	-9.2
4	☐	10.000	10.547	147506.96	0.0877	P	2.0	5.5
5	☐	100.000	93.545	1294257.82	0.7685	A	3.4	-6.5
6	☐	200.000	203.213	2763281.21	1.6681	A	1.7	1.6

y = 0.0082 * x + 0.0012
R = 0.9993
DL = 0.03149 ppb
BEC = 0.1472 ppb

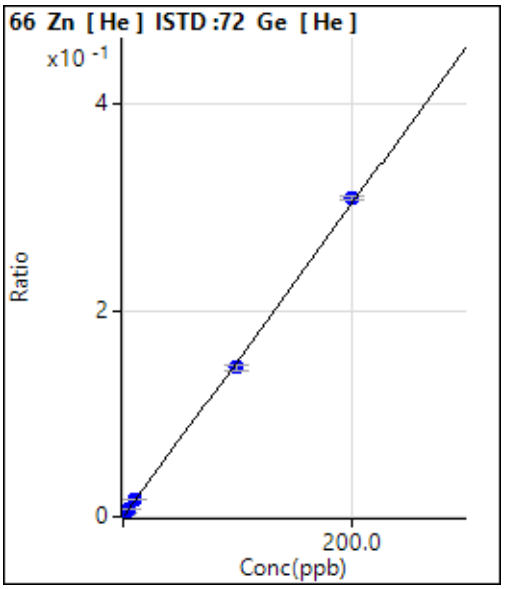
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5544.57	0.0010	P	1.7	
2	☐	2.000	2.257	20322.06	0.0037	P	5.1	12.8
3	☐	5.000	4.655	36839.81	0.0065	P	3.3	-6.9
4	☐	10.000	10.585	72649.78	0.0134	P	4.8	5.9
5	☐	100.000	97.366	624750.02	0.1152	P	1.3	-2.6
6	☐	200.000	201.294	1237706.94	0.2371	A	1.6	0.6

y = 0.0012 * x + 0.0010
R = 0.9999
DL = 0.04411 ppb
BEC = 0.8749 ppb

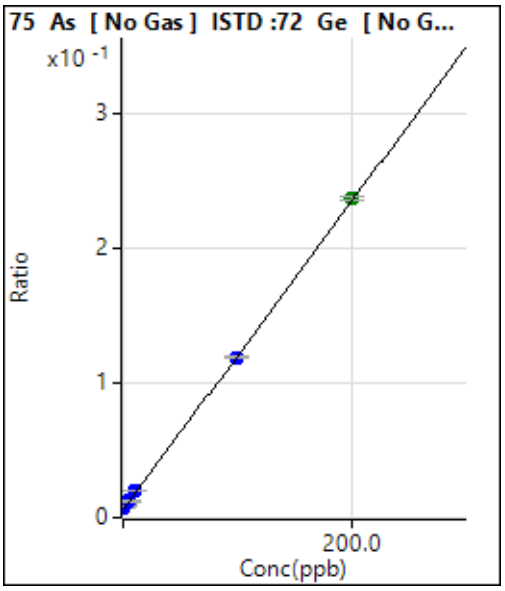
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2306.90	0.0013	P	3.9	
2	☐	2.000	1.963	7675.59	0.0043	P	4.4	-1.9
3	☐	5.000	4.568	14451.20	0.0082	P	3.3	-8.6
4	☐	10.000	10.472	28890.71	0.0172	P	1.7	4.7
5	☐	100.000	94.337	243517.87	0.1446	P	3.2	-5.7
6	☐	200.000	202.819	512545.81	0.3094	P	1.7	1.4

y = 0.0015 * x + 0.0013
R = 0.9994
DL = 0.09784 ppb
BEC = 0.8414 ppb

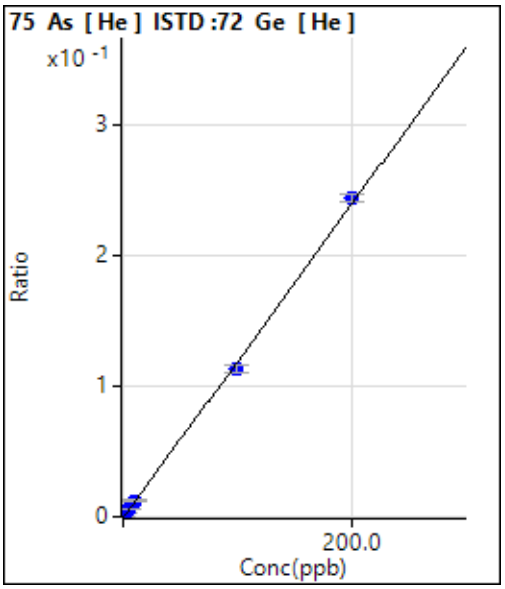
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38247.36	0.0071	P	9.3	
2	☐	2.000	2.173	52932.76	0.0096	P	10.2	8.7
3	☐	5.000	4.622	70334.09	0.0124	P	5.4	-7.6
4	☐	10.000	11.337	108397.63	0.0201	P	5.7	13.4
5	☐	100.000	97.969	645870.76	0.1191	P	2.0	-2.0
6	☐	200.000	200.956	1236579.54	0.2368	A	1.2	0.5

y = 0.0011 * x + 0.0071
R = 0.9999
DL = 1.727 ppb
BEC = 6.21 ppb

Weight: <None>
Min Conc: <None>

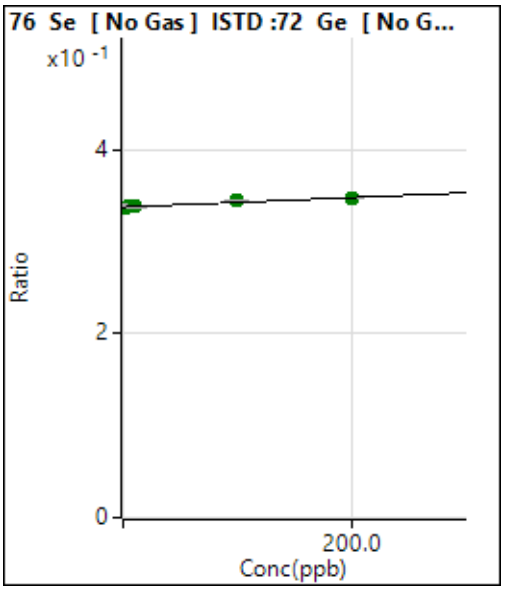


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	382.23	0.0002	P	2.7	
2	☐	2.000	1.853	4394.06	0.0024	P	1.7	-7.3
3	☐	5.000	4.603	10098.22	0.0057	P	2.3	-7.9
4	☐	10.000	10.136	20824.81	0.0124	P	1.9	1.4
5	☐	100.000	93.978	190477.60	0.1131	P	4.7	-6.0
6	☐	200.000	203.016	404376.76	0.2441	P	1.8	1.5

y = 0.0012 * x + 2.1167E-004
R = 0.9994
DL = 0.01447 ppb
BEC = 0.1762 ppb

Weight: <None>
Min Conc: <None>

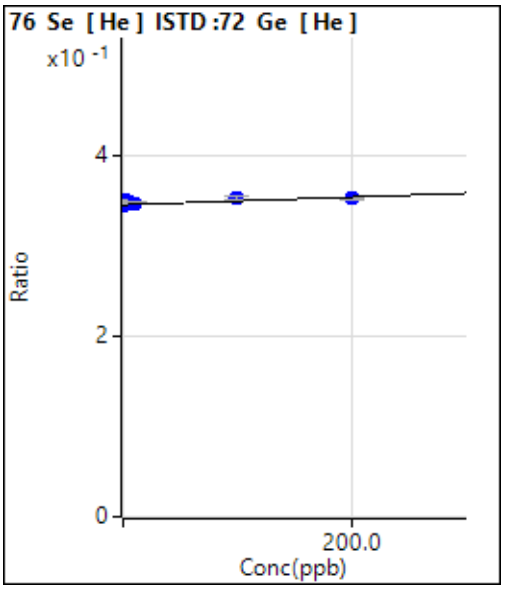
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1822160.44	0.3374	A	0.3	
2	☐	2.000	-30.542	1860971.79	0.3358	A	1.1	-1627.1
3	☐	5.000	15.879	1921891.69	0.3382	A	1.1	217.6
4	☐	10.000	6.063	1827572.11	0.3377	A	1.0	-39.4
5	☐	100.000	134.464	1867752.63	0.3444	A	0.4	34.5
6	☐	200.000	183.019	1811407.47	0.3469	A	0.5	-8.5

y = 5.2096E-005 * x + 0.3374
R = 0.9634
DL = 65.17 ppb
BEC = 6476 ppb

Weight: <None>
Min Conc: <None>

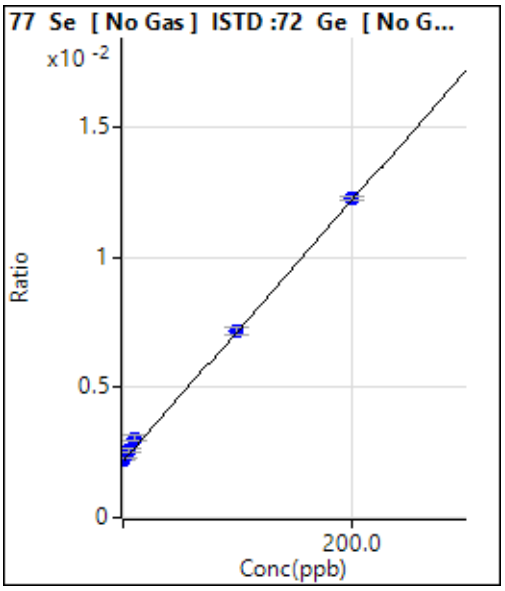


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	622887.87	0.3450	P	0.6	
2	☐	2.000	110.805	630457.05	0.3498	P	0.6	5440.2
3	☐	5.000	88.803	613623.36	0.3489	P	0.6	1676.1
4	☐	10.000	36.543	582689.43	0.3466	P	0.5	265.4
5	☐	100.000	175.757	594072.84	0.3526	P	1.1	75.8
6	☐	200.000	157.611	582929.21	0.3519	P	0.9	-21.2

y = 4.3448E-005 * x + 0.3450
R = 0.7205
DL = 140.3 ppb
BEC = 7940 ppb

Weight: <None>
Min Conc: <None>

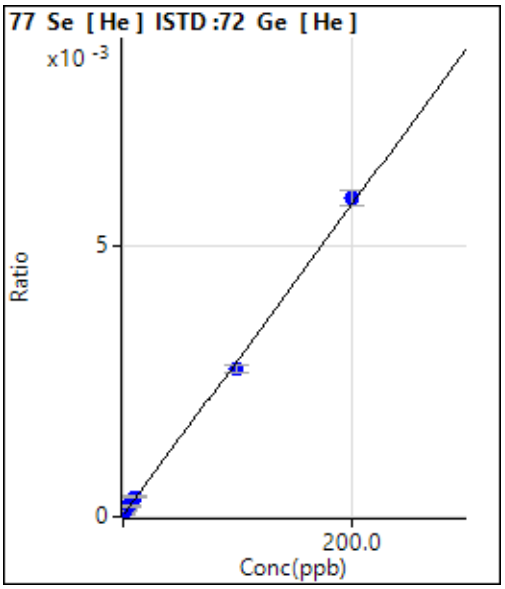
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12085.58	0.0022	P	5.1	
2	☐	2.000	2.955	13203.29	0.0024	P	8.5	47.8
3	☐	5.000	6.515	14578.02	0.0026	P	6.1	30.3
4	☐	10.000	16.368	16520.35	0.0031	P	8.8	63.7
5	☐	100.000	98.031	38765.38	0.0071	P	4.0	-2.0
6	☐	200.000	200.619	64154.17	0.0123	P	1.0	0.3

y = 5.0073E-005 * x + 0.0022
R = 0.9995
DL = 6.808 ppb
BEC = 44.75 ppb

Weight: <None>
Min Conc: <None>

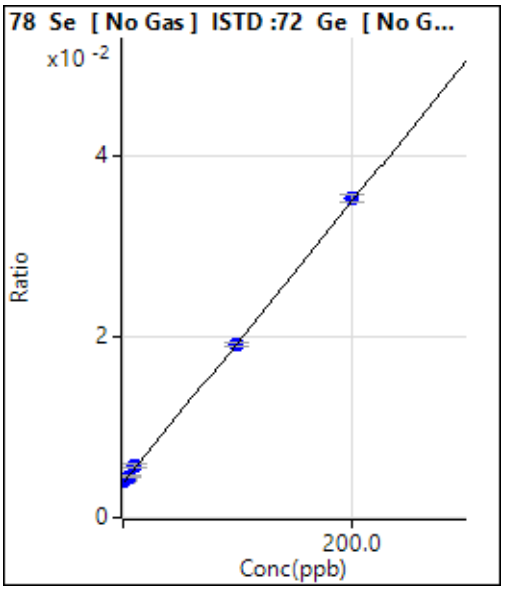


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0001	P	31.2	
2	☐	2.000	2.128	213.34	0.0001	P	17.8	6.4
3	☐	5.000	4.947	350.01	0.0002	P	21.5	-1.1
4	☐	10.000	10.746	613.36	0.0004	P	14.1	7.5
5	☐	100.000	93.249	4607.53	0.0027	P	6.0	-6.8
6	☐	200.000	203.338	9777.00	0.0059	P	4.8	1.7

y = 2.8735E-005 * x + 5.7237E-005
R = 0.9992
DL = 1.862 ppb
BEC = 1.992 ppb

Weight: <None>
Min Conc: <None>

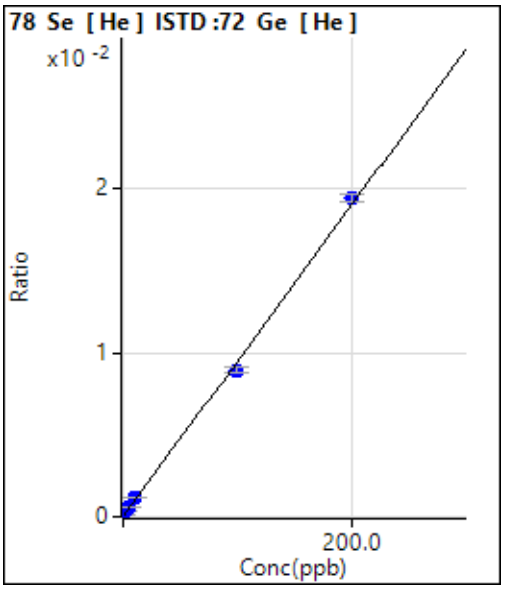
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21750.89	0.0040	P	8.4	
2	☐	2.000	1.023	23243.56	0.0042	P	3.2	-48.9
3	☐	5.000	3.168	25737.85	0.0045	P	3.2	-36.6
4	☐	10.000	10.867	30952.18	0.0057	P	5.0	8.7
5	☐	100.000	97.206	103817.48	0.0191	P	2.9	-2.8
6	☐	200.000	201.409	184490.12	0.0353	P	2.6	0.7

y = 1.5541E-004 * x + 0.0040
R = 0.9998
DL = 6.54 ppb
BEC = 25.98 ppb

Weight: <None>
Min Conc: <None>

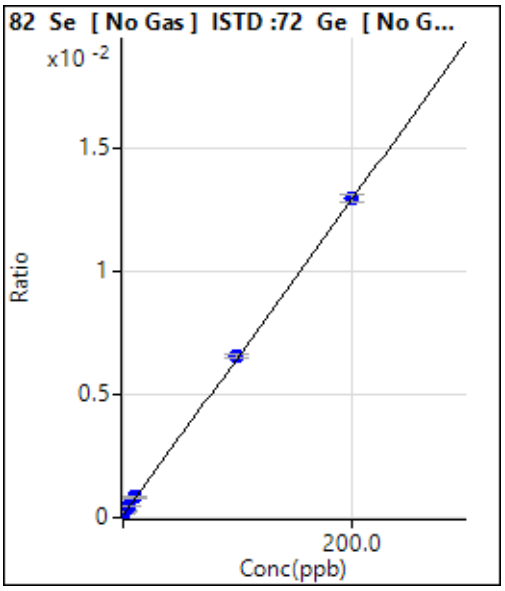


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	212.00	0.0001	P	11.3	
2	☐	2.000	2.132	576.68	0.0003	P	2.7	6.6
3	☐	5.000	4.715	994.04	0.0006	P	7.5	-5.7
4	☐	10.000	10.658	1900.81	0.0011	P	2.1	6.6
5	☐	100.000	92.969	15075.02	0.0090	P	4.9	-7.0
6	☐	200.000	203.488	32230.00	0.0195	P	1.9	1.7

y = 9.5036E-005 * x + 1.1739E-004
R = 0.9991
DL = 0.4202 ppb
BEC = 1.235 ppb

Weight: <None>
Min Conc: <None>

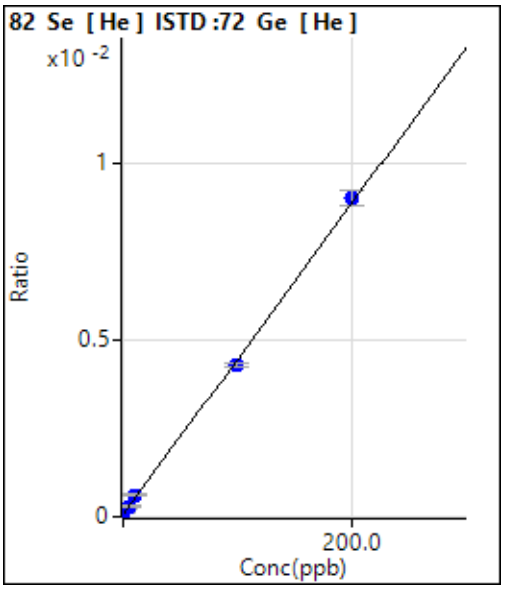
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	856.71	0.0002	P	21.8	
2	☐	2.000	1.997	1586.79	0.0003	P	16.5	-0.2
3	☐	5.000	4.887	2690.32	0.0005	P	8.3	-2.3
4	☐	10.000	10.551	4527.52	0.0008	P	3.8	5.5
5	☐	100.000	100.203	35767.49	0.0066	P	2.7	0.2
6	☐	200.000	199.874	67856.14	0.0130	P	2.7	-0.1

y = 6.4231E-005 * x + 1.5970E-004
R = 1.0000
DL = 1.625 ppb
BEC = 2.486 ppb

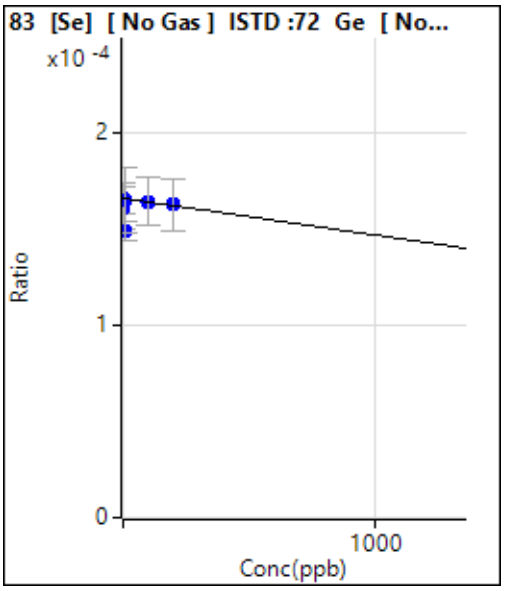
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	206.67	0.0001	P	33.7	
2	☐	2.000	2.535	406.68	0.0002	P	24.2	26.7
3	☐	5.000	4.097	516.68	0.0003	P	13.8	-18.1
4	☐	10.000	11.372	1030.06	0.0006	P	6.6	13.7
5	☐	100.000	94.789	7202.07	0.0043	P	1.9	-5.2
6	☐	200.000	202.554	14915.15	0.0090	P	4.3	1.3

y = 4.3902E-005 * x + 1.1420E-004
R = 0.9995
DL = 2.63 ppb
BEC = 2.601 ppb

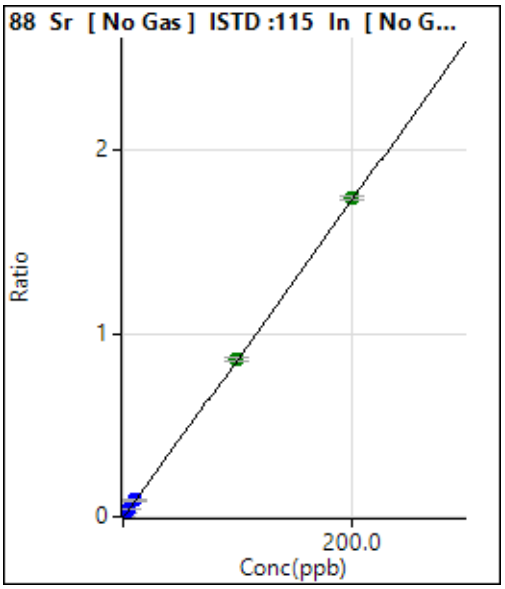
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	9.2	
2	☐	2.000	263.709	890.04	0.0002	P	13.7	13085.
3	☐	5.000	883.835	850.04	0.0001	P	6.5	17576.
4	☐	10.000	54.109	896.71	0.0002	P	20.9	441.1
5	☐	100.000	82.660	893.38	0.0002	P	14.8	-17.3
6	☐	200.000	181.877	850.04	0.0002	P	17.0	-9.1

y = -1.9104E-008 * x + 1.6638E-004
R = 0.2045
DL = -2412 ppb
BEC = -8709 ppb

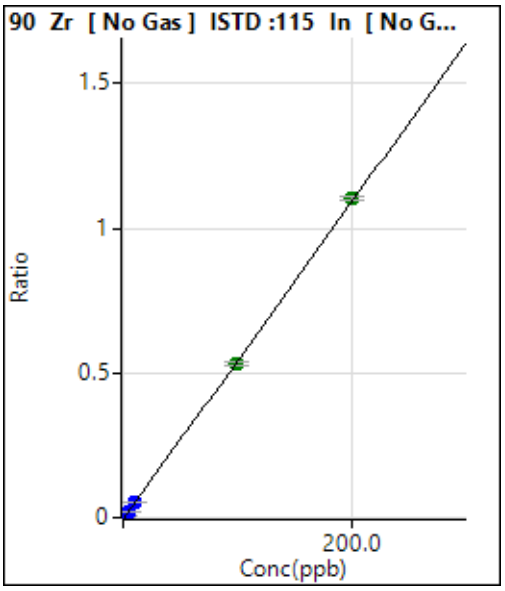
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7722.31	0.0012	P	6.2	
2	☐	2.000	2.075	127668.78	0.0192	P	7.5	3.8
3	☐	5.000	4.698	287795.00	0.0419	P	2.9	-6.0
4	☐	10.000	10.386	596684.06	0.0912	P	5.5	3.9
5	☐	100.000	98.788	5594276.17	0.8575	A	3.2	-1.2
6	☐	200.000	200.593	10942485.67	1.7399	A	1.3	0.3

y = 0.0087 * x + 0.0012
R = 1.0000
DL = 0.02537 ppb
BEC = 0.1372 ppb

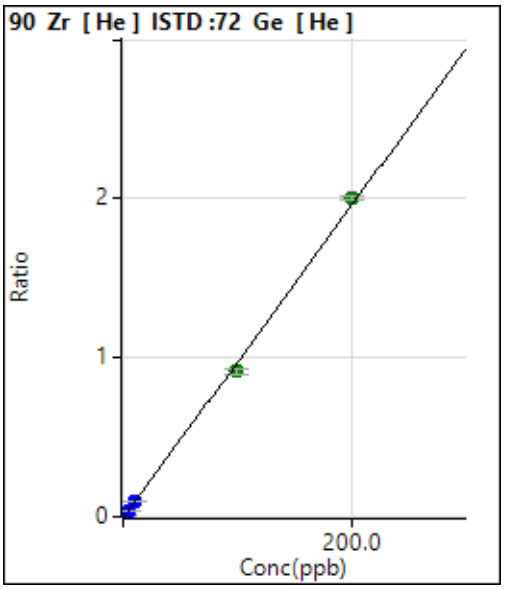
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1566.79	0.0002	P	12.2	
2	☐	2.000	1.696	63482.42	0.0095	P	8.1	-15.2
3	☐	5.000	4.025	153191.64	0.0223	P	4.4	-19.5
4	☐	10.000	9.425	339553.88	0.0519	P	6.0	-5.7
5	☐	100.000	97.496	3489139.11	0.5348	A	2.6	-2.5
6	☐	200.000	201.308	6942815.94	1.1039	A	1.0	0.7

y = 0.0055 * x + 2.4133E-004
R = 0.9999
DL = 0.01614 ppb
BEC = 0.04402 ppb

Weight: <None>
Min Conc: <None>

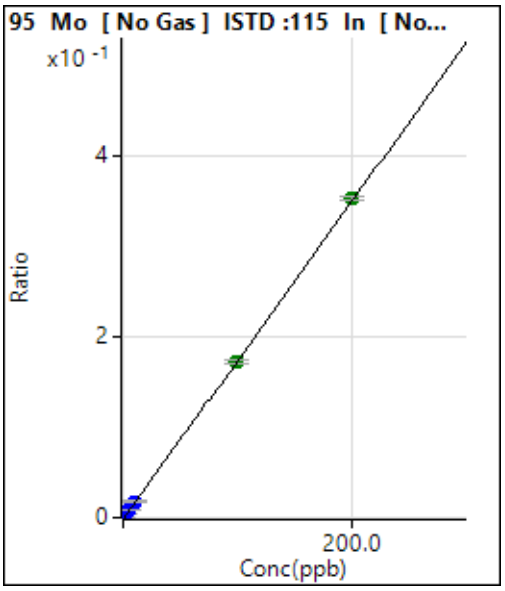


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1966.84	0.0011	P	8.0	
2	☐	2.000	1.524	28971.47	0.0161	P	1.6	-23.8
3	☐	5.000	3.948	70195.51	0.0399	P	3.3	-21.0
4	☐	10.000	9.544	159660.10	0.0950	P	1.2	-4.6
5	☐	100.000	92.752	1538008.63	0.9133	A	4.0	-7.2
6	☐	200.000	203.678	3320237.14	2.0042	A	1.5	1.8

y = 0.0098 * x + 0.0011
R = 0.9991
DL = 0.02651 ppb
BEC = 0.1109 ppb

Weight: <None>
Min Conc: <None>

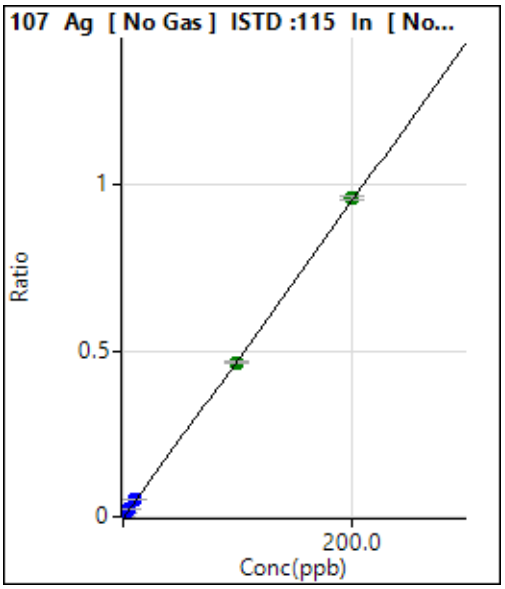
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0000	P	30.6	
2	☐	2.000	2.030	23874.87	0.0036	P	8.9	1.5
3	☐	5.000	4.545	54928.77	0.0080	P	2.2	-9.1
4	☐	10.000	10.069	115701.19	0.0177	P	4.6	0.7
5	☐	100.000	97.840	1119586.65	0.1716	A	2.9	-2.2
6	☐	200.000	201.088	2217961.22	0.3527	A	0.7	0.5

y = 0.0018 * x + 2.7965E-005
R = 0.9999
DL = 0.01462 ppb
BEC = 0.01595 ppb

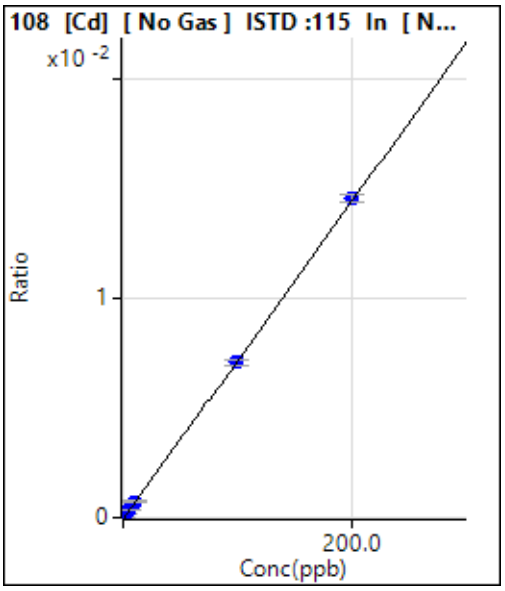
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453.35	0.0001	P	7.4	
2	☐	2.000	2.123	67878.94	0.0102	P	6.8	6.1
3	☐	5.000	4.744	155857.01	0.0227	P	3.1	-5.1
4	☐	10.000	10.611	331521.32	0.0507	P	5.4	6.1
5	☐	100.000	97.527	3035506.20	0.4652	A	1.8	-2.5
6	☐	200.000	201.211	6035362.62	0.9596	A	1.6	0.6

y = 0.0048 * x + 6.9598E-005
R = 0.9999
DL = 0.003242 ppb
BEC = 0.01459 ppb

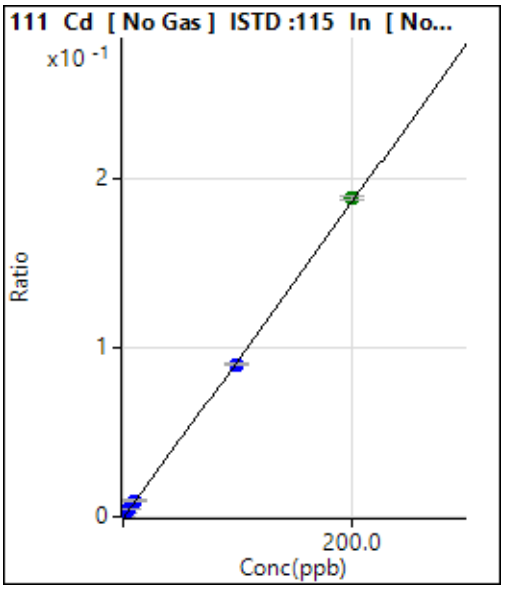
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	92.0	
2	☐	2.000	1.897	930.05	0.0001	P	6.9	-5.1
3	☐	5.000	4.697	2346.91	0.0003	P	12.1	-6.1
4	☐	10.000	10.153	4804.30	0.0007	P	14.0	1.5
5	☐	100.000	97.759	46106.62	0.0071	P	3.1	-2.2
6	☐	200.000	201.121	91411.79	0.0145	P	2.9	0.6

y = 7.2264E-005 * x + 2.4976E-006
R = 0.9999
DL = 0.09539 ppb
BEC = 0.03456 ppb

Weight: <None>
Min Conc: <None>

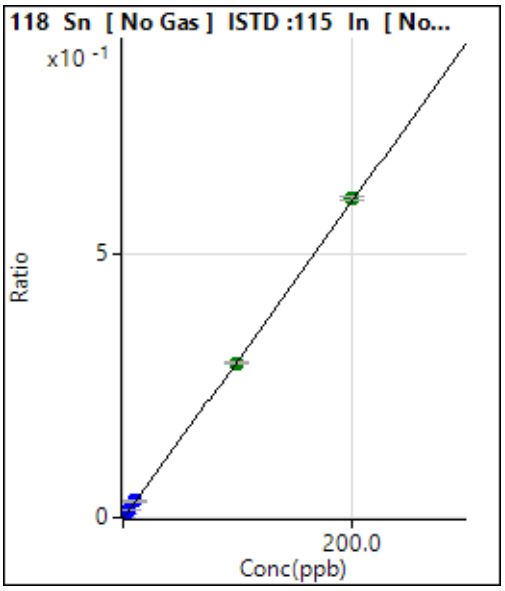


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.78	0.0000	P	381.4	
2	☐	2.000	2.118	13183.10	0.0020	P	6.5	5.9
3	☐	5.000	4.551	29193.18	0.0043	P	5.9	-9.0
4	☐	10.000	10.307	63006.19	0.0096	P	4.2	3.1
5	☐	100.000	96.261	586719.59	0.0899	P	1.5	-3.7
6	☐	200.000	201.864	1185717.47	0.1885	A	1.7	0.9

y = 9.3397E-004 * x + 1.5475E-006
R = 0.9997
DL = 0.01896 ppb
BEC = 0.001657 ppb

Weight: <None>
Min Conc: <None>

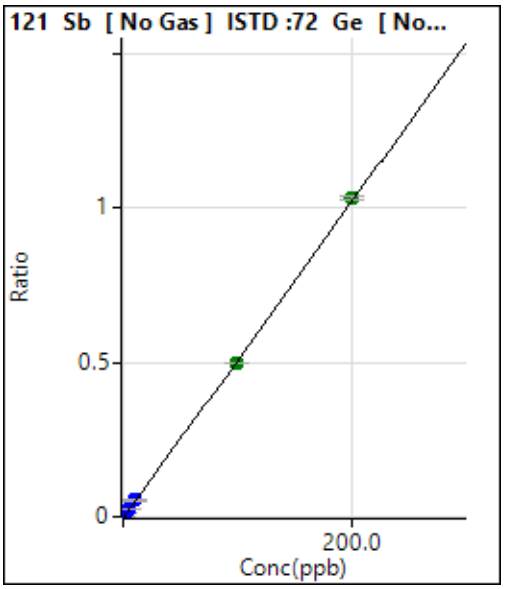
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4490.86	0.0007	P	7.2	
2	☐	2.000	2.081	46217.67	0.0069	P	6.8	4.1
3	☐	5.000	4.627	100141.31	0.0146	P	3.3	-7.5
4	☐	10.000	10.320	207278.82	0.0317	P	4.9	3.2
5	☐	100.000	97.353	1911644.40	0.2929	A	1.8	-2.6
6	☐	200.000	201.316	3805364.84	0.6050	A	1.4	0.7

y = 0.0030 * x + 6.9250E-004
R = 0.9999
DL = 0.04968 ppb
BEC = 0.2307 ppb

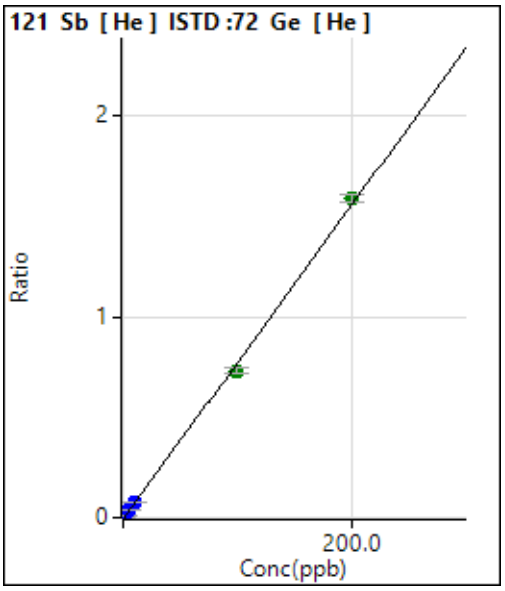
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0001	P	12.2	
2	☐	2.000	2.047	58880.91	0.0106	P	8.3	2.3
3	☐	5.000	4.677	137153.83	0.0241	P	3.6	-6.5
4	☐	10.000	10.316	286872.03	0.0531	P	5.2	3.2
5	☐	100.000	97.107	2702600.69	0.4983	A	0.7	-2.9
6	☐	200.000	201.439	5396310.75	1.0335	A	1.2	0.7

y = 0.0051 * x + 1.4866E-004
R = 0.9998
DL = 0.01065 ppb
BEC = 0.02898 ppb

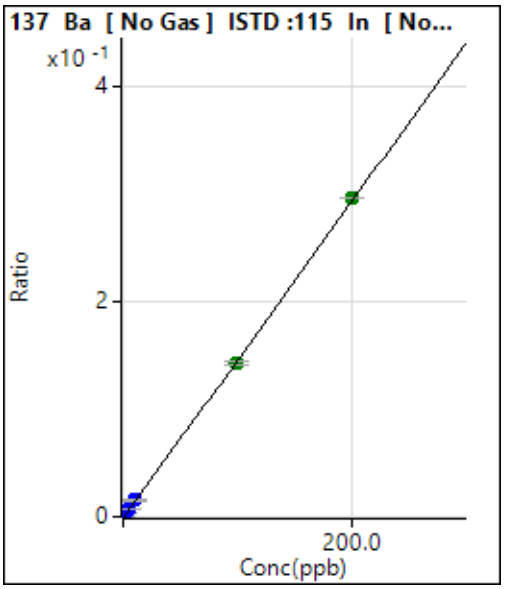
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	413.35	0.0002	P	16.8	
2	☐	2.000	1.778	25494.80	0.0141	P	1.5	-11.1
3	☐	5.000	4.489	62203.07	0.0354	P	3.8	-10.2
4	☐	10.000	10.099	133292.40	0.0793	P	1.0	1.0
5	☐	100.000	93.529	1233297.53	0.7324	A	4.2	-6.5
6	☐	200.000	203.246	2635998.09	1.5913	A	2.2	1.6

y = 0.0078 * x + 2.2948E-004
R = 0.9993
DL = 0.01477 ppb
BEC = 0.02931 ppb

Weight: <None>
Min Conc: <None>

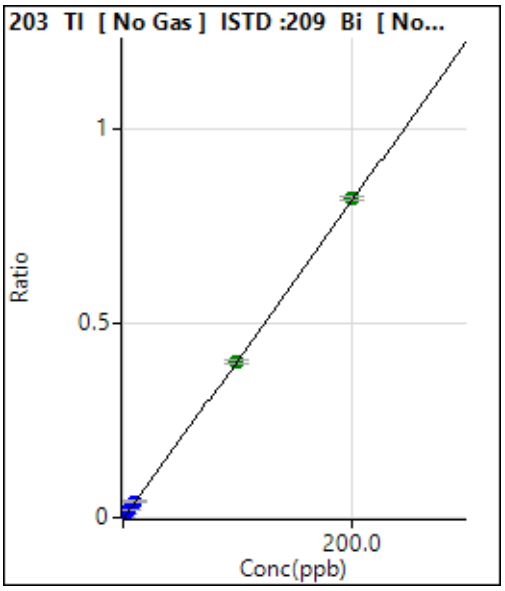


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	940.05	0.0001	P	7.8	
2	☐	2.000	2.193	22496.38	0.0034	P	6.4	9.6
3	☐	5.000	4.673	48312.86	0.0070	P	3.3	-6.5
4	☐	10.000	10.338	100695.00	0.0154	P	4.4	3.4
5	☐	100.000	97.380	937888.42	0.1437	A	2.3	-2.6
6	☐	200.000	201.300	1867861.90	0.2970	A	0.2	0.6

y = 0.0015 * x + 1.4446E-004
R = 0.9999
DL = 0.02297 ppb
BEC = 0.09797 ppb

Weight: <None>
Min Conc: <None>

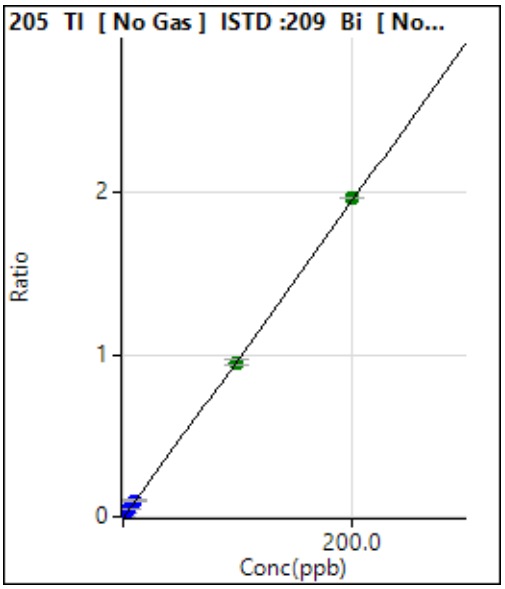
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0000	P	29.5	
2	☐	2.000	2.042	51653.18	0.0084	P	4.9	2.1
3	☐	5.000	4.626	118885.91	0.0190	P	2.2	-7.5
4	☐	10.000	10.089	250090.71	0.0414	P	5.5	0.9
5	☐	100.000	98.353	2398963.19	0.4028	A	2.3	-1.6
6	☐	200.000	200.828	4677810.76	0.8223	A	1.0	0.4

y = 0.0041 * x + 4.4497E-005
R = 1.0000
DL = 0.009613 ppb
BEC = 0.01087 ppb

Weight: <None>
Min Conc: <None>

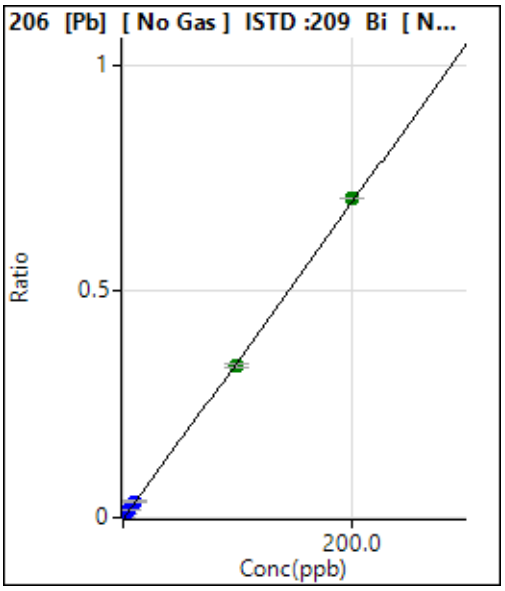


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0001	P	11.1	
2	☐	2.000	2.023	121946.95	0.0198	P	5.8	1.2
3	☐	5.000	4.581	280720.70	0.0448	P	2.4	-8.4
4	☐	10.000	10.058	595034.16	0.0983	P	5.0	0.6
5	☐	100.000	97.569	5677983.67	0.9533	A	2.9	-2.4
6	☐	200.000	201.223	11184025.25	1.9660	A	0.2	0.6

y = 0.0098 * x + 8.0008E-005
R = 0.9999
DL = 0.002719 ppb
BEC = 0.008189 ppb

Weight: <None>
Min Conc: <None>

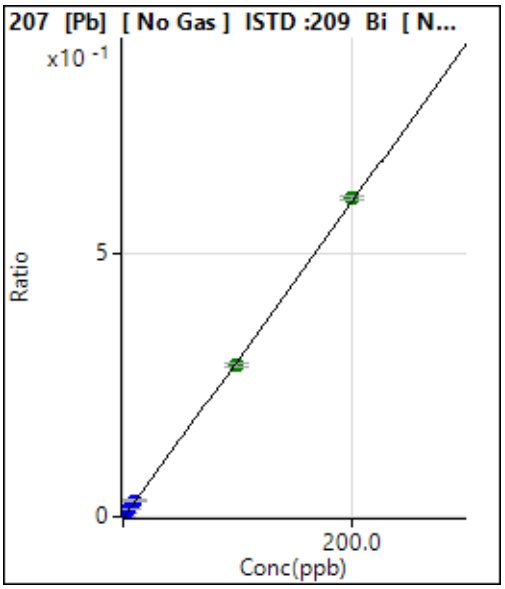
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	676.70	0.0001	P	11.1	
2	☐	2.000	2.067	45014.34	0.0073	P	7.3	3.4
3	☐	5.000	4.625	101769.90	0.0163	P	3.4	-7.5
4	☐	10.000	10.087	213622.22	0.0353	P	5.1	0.9
5	☐	100.000	96.040	1996991.69	0.3353	A	2.4	-4.0
6	☐	200.000	201.984	4010482.96	0.7050	A	0.4	1.0

y = 0.0035 * x + 1.1435E-004
R = 0.9997
DL = 0.01096 ppb
BEC = 0.03277 ppb

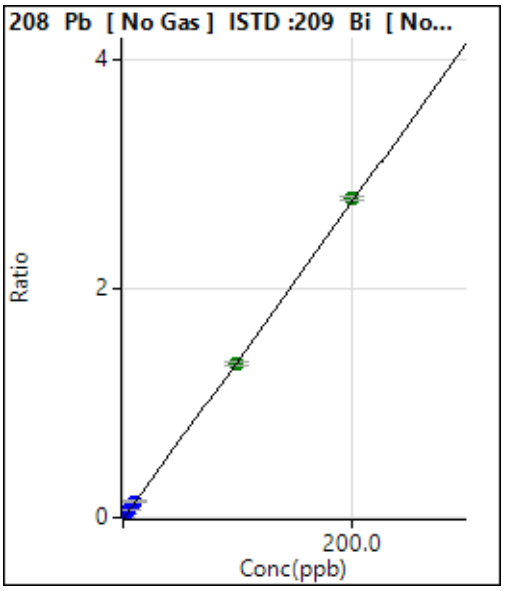
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	566.69	0.0001	P	17.1	
2	☐	2.000	2.008	37630.12	0.0061	P	7.7	0.4
3	☐	5.000	4.594	87000.44	0.0139	P	4.3	-8.1
4	☐	10.000	10.151	184949.07	0.0306	P	6.1	1.5
5	☐	100.000	96.496	1726876.12	0.2899	A	2.7	-3.5
6	☐	200.000	201.755	3447835.16	0.6061	A	0.8	0.9

y = 0.0030 * x + 9.5619E-005
R = 0.9998
DL = 0.0163 ppb
BEC = 0.03183 ppb

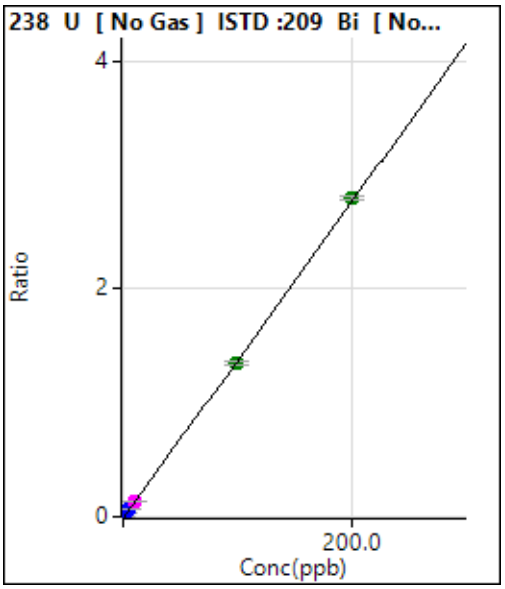
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.16	0.0004	P	8.2	
2	☐	2.000	2.045	176182.43	0.0287	P	7.1	2.2
3	☐	5.000	4.627	402893.09	0.0643	P	3.5	-7.5
4	☐	10.000	10.201	854688.49	0.1413	P	5.6	2.0
5	☐	100.000	96.740	7960707.74	1.3365	A	2.1	-3.3
6	☐	200.000	201.629	15842884.24	2.7850	A	1.0	0.8

y = 0.0138 * x + 4.4248E-004
R = 0.9998
DL = 0.007901 ppb
BEC = 0.03204 ppb

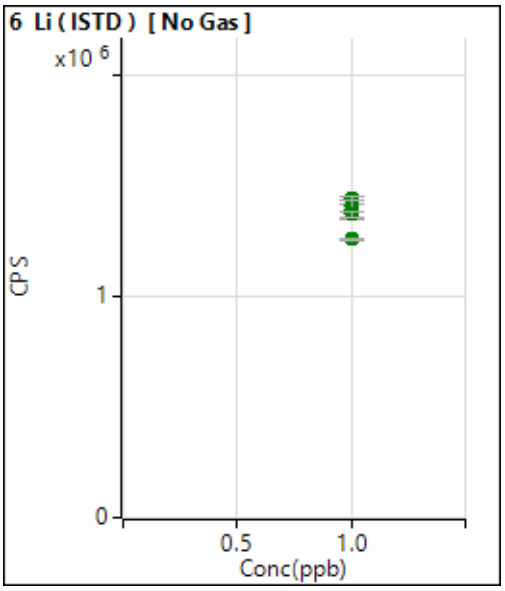
Weight: <None>
Min Conc: <None>



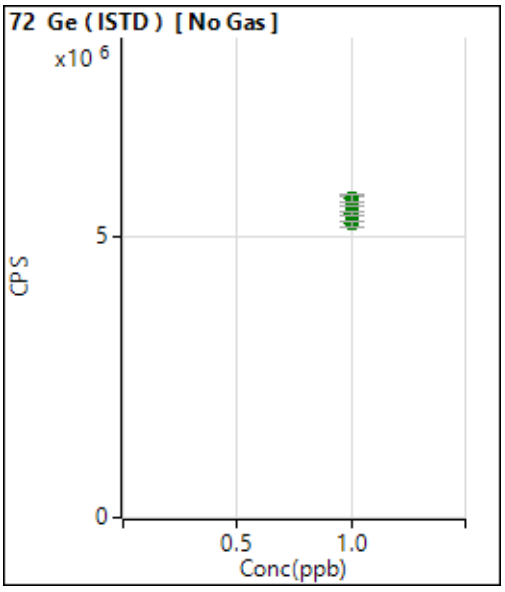
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0001	P	12.6	
2	☐	2.000	1.954	167357.46	0.0272	P	7.1	-2.3
3	☐	5.000	4.450	387432.22	0.0619	P	4.5	-11.0
4	☐	10.000	9.811	824417.75	0.1363	M	5.1	-1.9
5	☐	100.000	97.046	8021585.50	1.3468	A	2.8	-3.0
6	☐	200.000	201.500	15906219.35	2.7962	A	1.2	0.8

y = 0.0139 * x + 1.3384E-004
R = 0.9999
DL = 0.003642 ppb
BEC = 0.009645 ppb

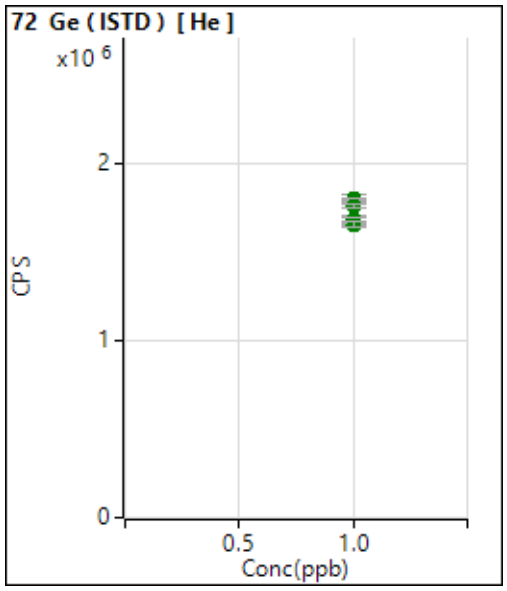
Weight: <None>
Min Conc: <None>



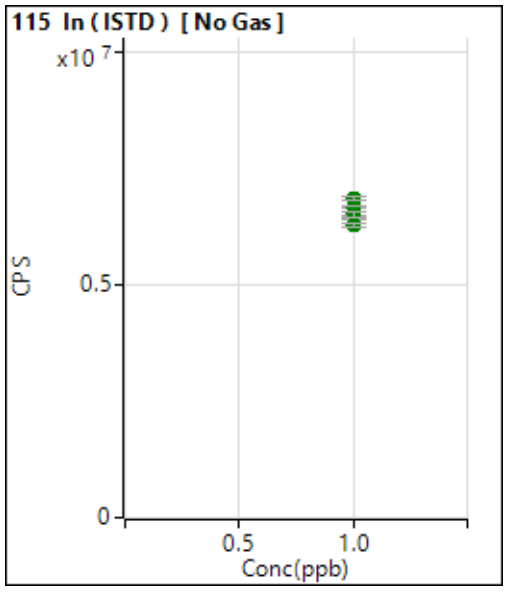
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1386463.37		A	5.3	
2	☐	1.000		1414002.04		A	3.6	
3	☐	1.000		1446173.49		A	1.1	
4	☐	1.000		1398038.17		A	5.4	
5	☐	1.000		1372735.37		A	2.1	
6	☐	1.000		1261782.70		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5401930.02		A	4.9	
2	☐	1.000		5544714.71		A	5.7	
3	☐	1.000		5683857.63		A	2.1	
4	☐	1.000		5412927.94		A	4.6	
5	☐	1.000		5423908.67		A	1.2	
6	☐	1.000		5221937.11		A	1.5	

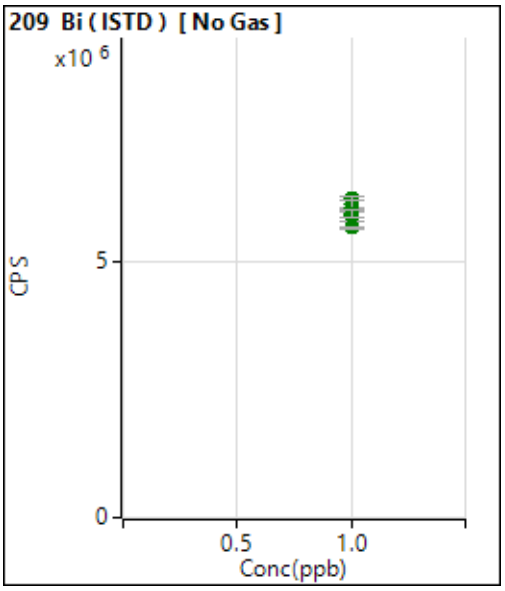


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1805342.53		A	2.1	
2	☐	1.000		1802261.33		A	0.5	
3	☐	1.000		1759017.58		A	1.4	
4	☐	1.000		1681177.68		A	3.5	
5	☐	1.000		1684830.86		A	1.9	
6	☐	1.000		1656977.16		A	2.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		6497844.74		A	5.0	
2	☐	1.000		6673538.06		A	5.0	
3	☐	1.000		6868205.63		A	0.8	
4	☐	1.000		6551176.75		A	4.3	
5	☐	1.000		6527018.96		A	2.1	
6	☐	1.000		6289656.26		A	1.0	

Calibration for 295_ICV.d

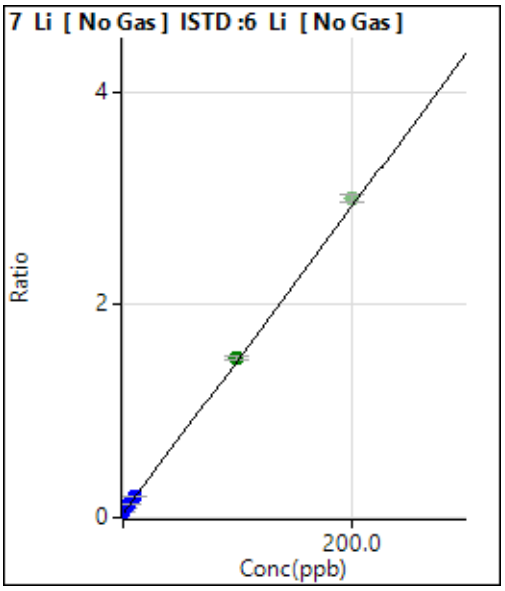


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5935275.33		A	4.8	
2	☐	1.000		6155836.37		A	4.7	
3	☐	1.000		6262566.99		A	0.9	
4	☐	1.000		6059329.49		A	5.8	
5	☐	1.000		5958285.54		A	2.1	
6	☐	1.000		5688627.62		A	0.6	

Calibration for 105_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

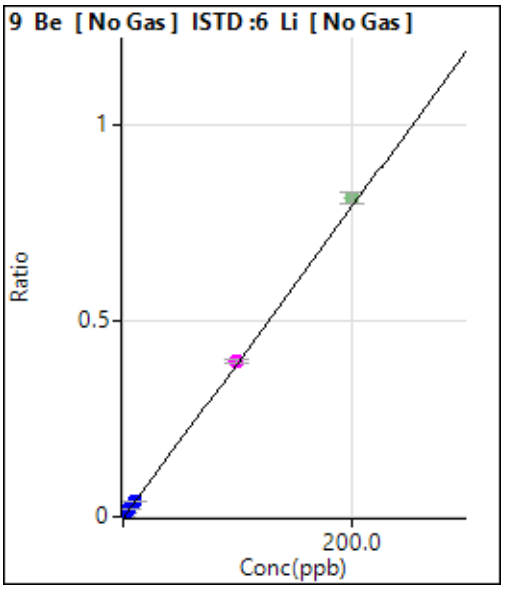
Level	Standard Data File	Sample Name	Acq. Date-Time
1	098CALB.d	CAL BLK	5/29/2024 2:58:14 PM
2	099CALS.d	2/10/200	5/29/2024 3:00:44 PM
3	100CALS.d	5/25/500	5/29/2024 3:03:15 PM
4	101CALS.d	10/50/100	5/29/2024 3:05:45 PM
5	102CALS.d	100/500/10K	5/29/2024 3:08:14 PM
6	103CALS.d	200/1000/20K	5/29/2024 3:10:46 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72289.23	0.0555	P	0.9	
2	☐	2.000	2.065	110191.24	0.0852	P	1.3	3.3
3	☐	5.000	5.039	164368.58	0.1281	P	0.9	0.8
4	☐	10.000	10.112	256607.64	0.2012	P	1.0	1.1
5	☐	100.000	99.986	1838697.73	1.4960	A	2.4	0.0
6	☑	200.000		3531287.66	3.0028	A	3.0	

y = 0.0144 * x + 0.0555
R = 1.0000
DL = 0.09876 ppb
BEC = 3.85 ppb

Weight: <None>
Min Conc: <None>

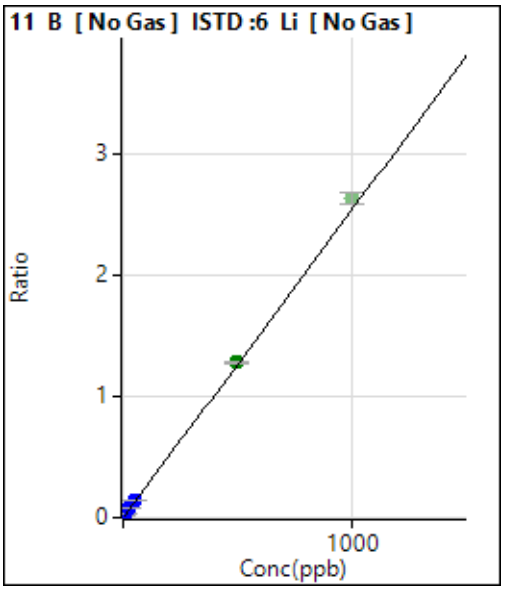


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15.00	0.0000	P	33.6	
2	☐	2.000	1.934	9928.53	0.0077	P	2.9	-3.3
3	☐	5.000	4.925	25078.79	0.0195	P	1.2	-1.5
4	☐	10.000	9.832	49743.44	0.0390	P	2.5	-1.7
5	☐	100.000	100.022	487426.80	0.3966	M	2.2	0.0
6	☑	200.000		955455.04	0.8125	A	3.5	

y = 0.0040 * x + 1.1517E-005
R = 1.0000
DL = 0.002925 ppb
BEC = 0.002905 ppb

Weight: <None>
Min Conc: <None>

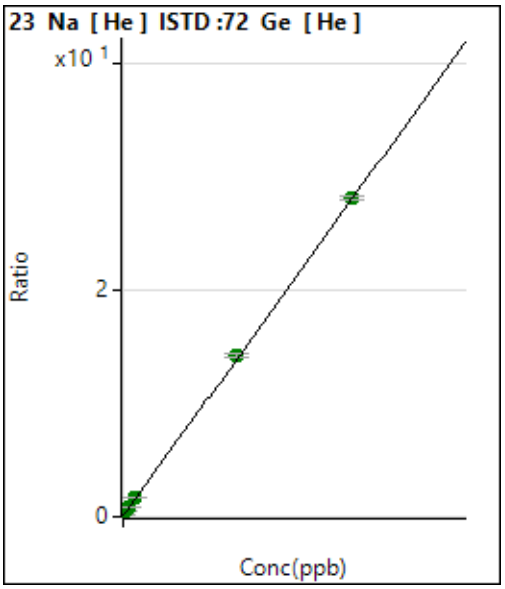
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14662.63	0.0113	P	1.4	
2	☐	10.000	9.745	46529.34	0.0360	P	3.2	-2.6
3	☐	25.000	24.426	94042.30	0.0733	P	1.2	-2.3
4	☐	50.000	49.463	174559.21	0.1368	P	1.1	-1.1
5	☐	500.000	500.087	1574453.46	1.2810	A	1.9	0.0
6	☑	1000.000		3099878.60	2.6361	A	3.5	

y = 0.0025 * x + 0.0113
R = 1.0000
DL = 0.1854 ppb
BEC = 4.431 ppb

Weight: <None>
Min Conc: <None>

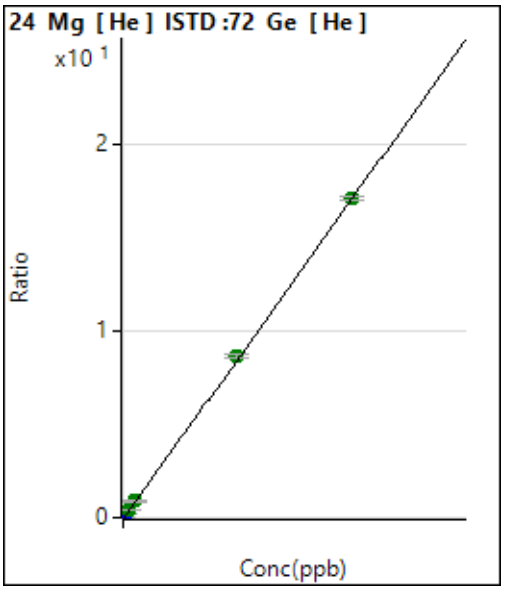


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286629.47	0.2086	P	0.5	
2	☐	200.000	195.343	660366.16	0.4808	A	1.2	-2.3
3	☐	500.000	489.104	1206386.47	0.8902	A	2.6	-2.2
4	☐	1000.000	1011.957	2190193.09	1.6188	A	1.4	1.2
5	☐	10000.00	10001.04	19007518.05	14.1457	A	2.6	0.0
6	☐	20000.00	19999.19	37673615.27	28.0789	A	1.8	0.0

y = 0.0014 * x + 0.2086
R = 1.0000
DL = 2.382 ppb
BEC = 149.7 ppb

Weight: <None>
Min Conc: <None>

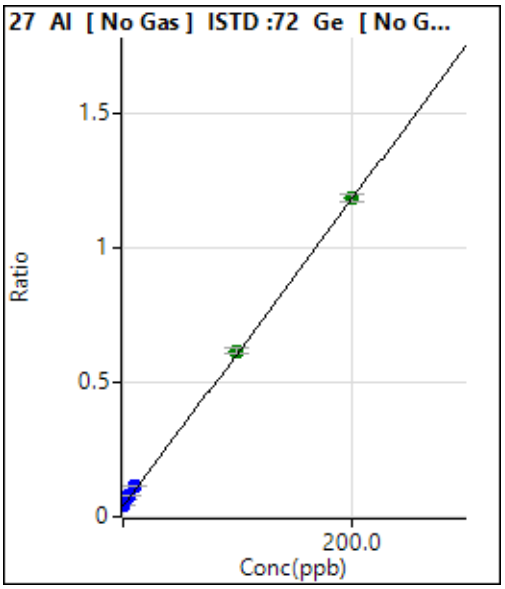
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0009	P	10.2	
2	☐	200.000	203.355	240598.23	0.1752	P	2.6	1.7
3	☐	500.000	494.607	575627.47	0.4248	A	3.2	-1.1
4	☐	1000.000	1023.806	1188254.49	0.8783	A	2.3	2.4
5	☐	10000.00	10072.23	11599054.41	8.6323	A	2.6	0.7
6	☐	20000.00	19962.79	22954083.82	17.1080	A	1.7	-0.2

y = 8.5695E-004 * x + 9.0729E-004
R = 1.0000
DL = 0.3251 ppb
BEC = 1.059 ppb

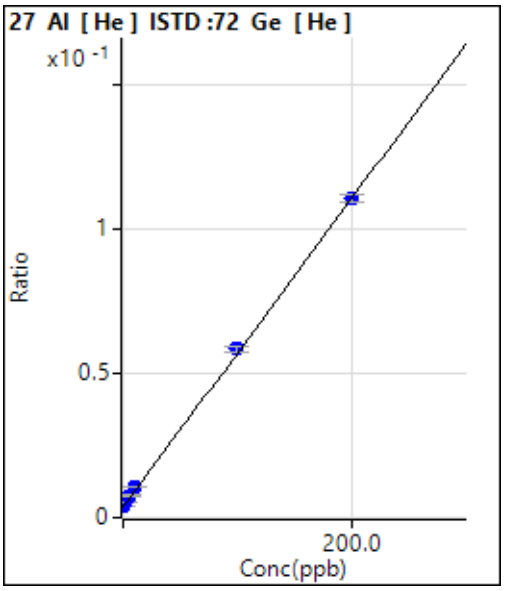
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193314.14	0.0443	P	1.0	
2	☐	2.000	2.961	266805.69	0.0612	P	1.5	48.1
3	☐	5.000	6.146	346436.57	0.0794	P	0.3	22.9
4	☐	10.000	12.150	491296.58	0.1137	P	2.8	21.5
5	☐	100.000	100.019	2637158.81	0.6151	A	3.7	0.0
6	☐	200.000	199.845	4997676.59	1.1847	A	2.7	-0.1

y = 0.0057 * x + 0.0443
R = 1.0000
DL = 0.2301 ppb
BEC = 7.771 ppb

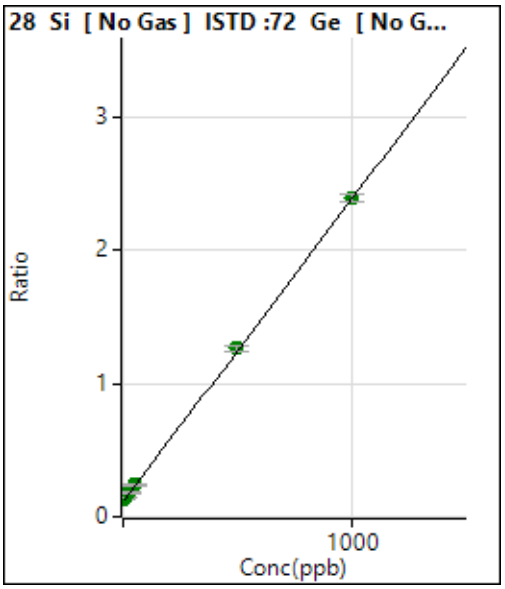
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5864.66	0.0043	P	1.5	
2	☐	2.000	2.364	7598.86	0.0055	P	3.7	18.2
3	☐	5.000	6.343	10387.35	0.0077	P	2.4	26.9
4	☐	10.000	12.107	14541.15	0.0107	P	1.6	21.1
5	☐	100.000	101.632	78817.47	0.0587	P	3.4	1.6
6	☐	200.000	199.042	148669.78	0.1108	P	2.5	-0.5

y = 5.3521E-004 * x + 0.0043
R = 0.9999
DL = 0.3498 ppb
BEC = 7.973 ppb

Weight: <None>
Min Conc: <None>

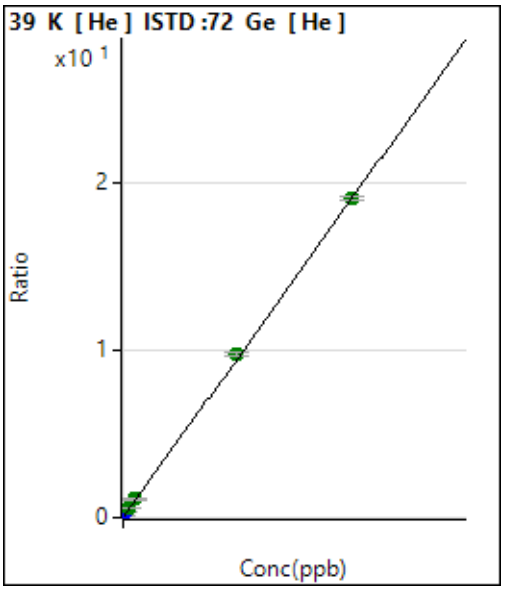


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	544083.64	0.1248	A	0.1	
2	☐	10.000	10.489	647336.42	0.1486	A	0.2	4.9
3	☐	25.000	24.661	788341.94	0.1807	A	1.2	-1.4
4	☐	50.000	51.129	1040449.83	0.2407	A	3.1	2.3
5	☐	500.000	501.773	5413186.59	1.2626	A	3.7	0.4
6	☐	1000.000	999.060	10082694.22	2.3901	A	2.6	-0.1

y = 0.0023 * x + 0.1248
R = 1.0000
DL = 0.2234 ppb
BEC = 55.04 ppb

Weight: <None>
Min Conc: <None>

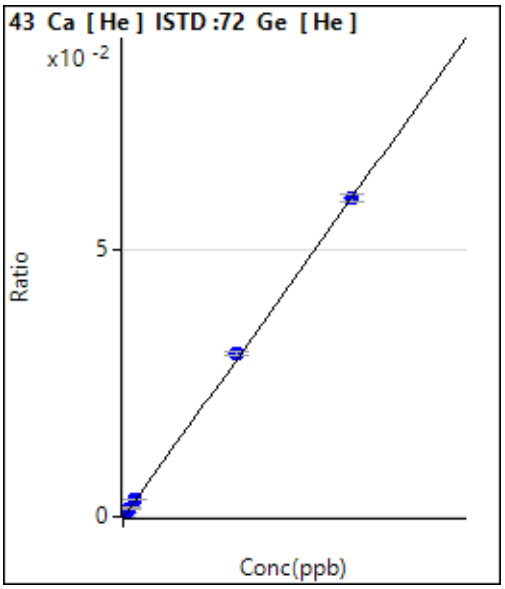
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145309.32	0.1057	P	0.4	
2	☐	200.000	201.719	409560.47	0.2982	P	2.4	0.9
3	☐	500.000	494.949	783265.98	0.5779	A	2.8	-1.0
4	☐	1000.000	1037.794	1482655.19	1.0959	A	2.1	3.8
5	☐	10000.00	10147.32	13151539.80	9.7869	A	1.7	1.5
6	☐	20000.00	19924.55	25647874.62	19.1151	A	1.4	-0.4

y = 9.5407E-004 * x + 0.1057
R = 1.0000
DL = 1.325 ppb
BEC = 110.8 ppb

Weight: <None>
Min Conc: <None>

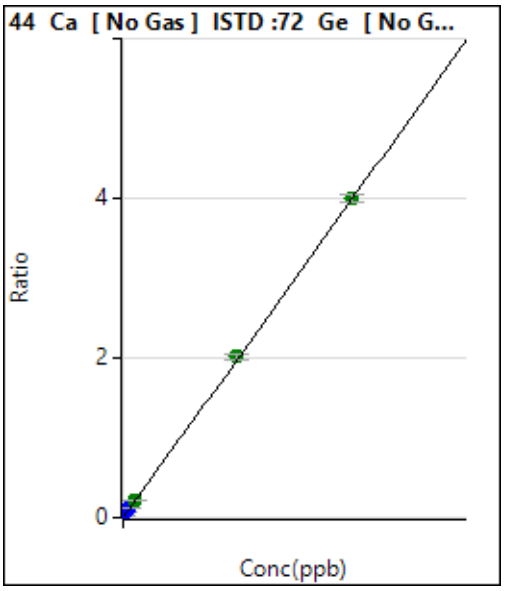


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0001	P	39.1	
2	☐	200.000	210.631	970.06	0.0007	P	20.1	5.3
3	☐	500.000	511.884	2180.21	0.0016	P	8.8	2.4
4	☐	1000.000	1026.628	4264.08	0.0032	P	5.7	2.7
5	☐	10000.00	10200.36	41177.96	0.0306	P	2.6	2.0
6	☐	20000.00	19898.08	80107.44	0.0597	P	2.8	-0.5

y = 2.9971E-006 * x + 7.5183E-005
R = 0.9999
DL = 29.4 ppb
BEC = 25.09 ppb

Weight: <None>
Min Conc: <None>

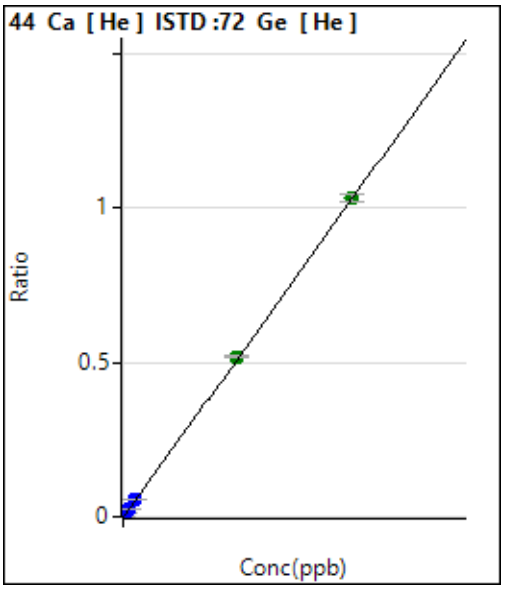
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77170.00	0.0177	P	2.5	
2	☐	200.000	221.279	269276.44	0.0618	P	1.5	10.6
3	☐	500.000	538.615	545546.30	0.1251	P	1.9	7.7
4	☐	1000.000	1024.768	959333.55	0.2220	A	3.5	2.5
5	☐	10000.00	10033.38	8651430.08	2.0177	A	3.1	0.3
6	☐	20000.00	19980.89	16876914.75	4.0006	A	2.2	-0.1

y = 1.9934E-004 * x + 0.0177
R = 1.0000
DL = 6.608 ppb
BEC = 88.8 ppb

Weight: <None>
Min Conc: <None>

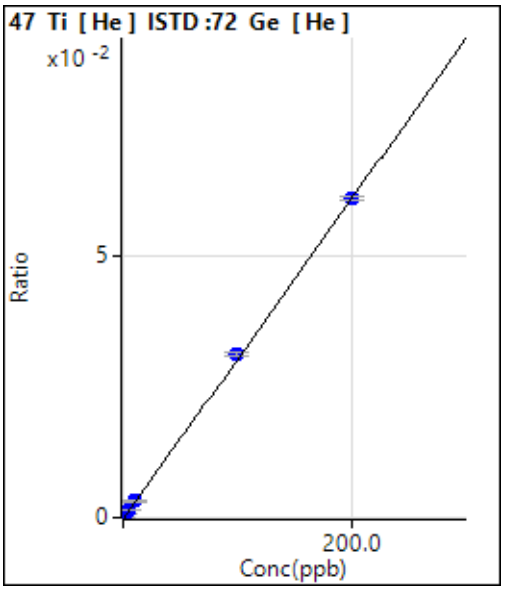


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2573.61	0.0019	P	3.7	
2	☐	200.000	205.056	17090.77	0.0124	P	2.0	2.5
3	☐	500.000	490.452	36802.22	0.0272	P	2.1	-1.9
4	☐	1000.000	1035.868	74780.49	0.0553	P	1.3	3.6
5	☐	10000.00	10030.25	697328.45	0.5189	A	1.2	0.3
6	☐	20000.00	19983.26	1384564.36	1.0320	A	2.0	-0.1

y = 5.1548E-005 * x + 0.0019
R = 1.0000
DL = 4.012 ppb
BEC = 36.33 ppb

Weight: <None>
Min Conc: <None>

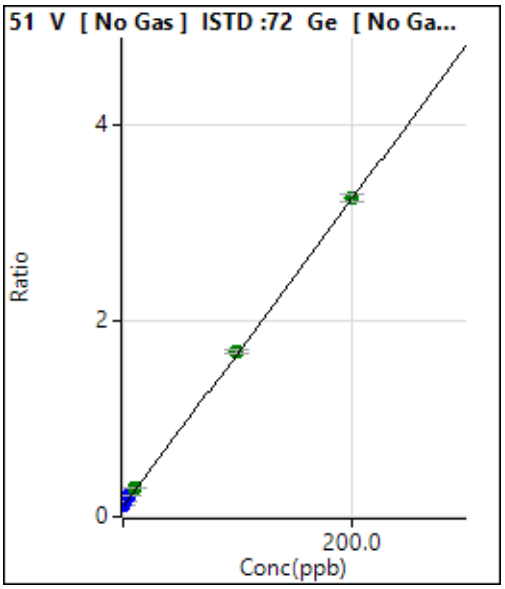
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	2.094	893.38	0.0007	P	9.0	4.7
3	☐	5.000	5.066	2113.54	0.0016	P	2.9	1.3
4	☐	10.000	10.213	4240.72	0.0031	P	1.9	2.1
5	☐	100.000	101.496	41736.19	0.0311	P	2.2	1.5
6	☐	200.000	199.239	81793.78	0.0610	P	1.2	-0.4

y = 3.0592E-004 * x + 9.6904E-006
R = 1.0000
DL = 0.0823 ppb
BEC = 0.03168 ppb

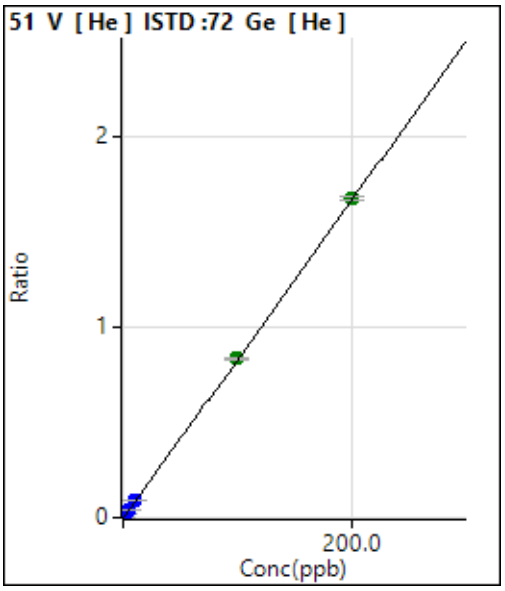
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	517978.49	0.1188	P	1.4	
2	☐	2.000	2.662	699471.71	0.1606	P	0.8	33.1
3	☐	5.000	6.103	935752.14	0.2145	P	1.7	22.1
4	☐	10.000	11.575	1298192.99	0.3003	A	1.2	15.8
5	☐	100.000	99.971	7231859.55	1.6866	A	2.3	0.0
6	☐	200.000	199.902	13725968.25	3.2537	A	2.0	0.0

y = 0.0157 * x + 0.1188
R = 1.0000
DL = 0.3272 ppb
BEC = 7.577 ppb

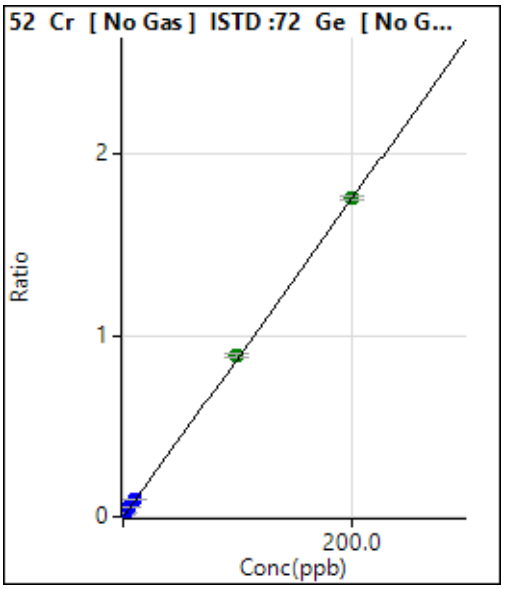
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4532.99	0.0033	P	1.6	
2	☐	2.000	2.025	27813.44	0.0203	P	1.7	1.2
3	☐	5.000	4.888	59936.52	0.0442	P	1.9	-2.2
4	☐	10.000	10.126	119172.53	0.0881	P	1.9	1.3
5	☐	100.000	99.380	1122488.88	0.8354	A	1.9	-0.6
6	☐	200.000	200.306	2254655.47	1.6804	A	1.3	0.2

y = 0.0084 * x + 0.0033
R = 1.0000
DL = 0.01888 ppb
BEC = 0.3939 ppb

Weight: <None>
Min Conc: <None>

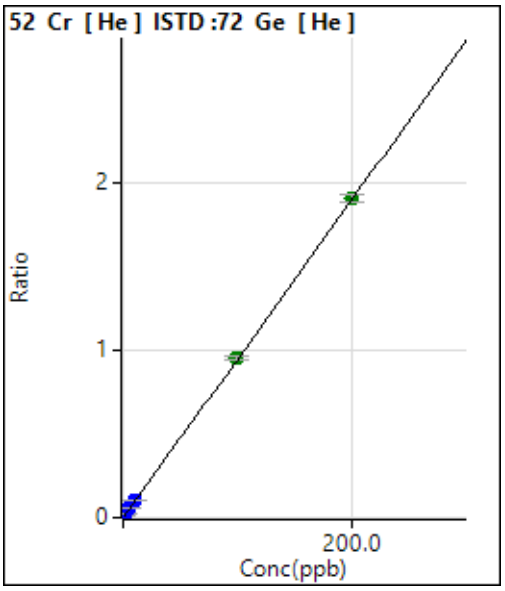


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24051.28	0.0055	P	0.9	
2	☐	2.000	2.112	104774.64	0.0241	P	0.5	5.6
3	☐	5.000	5.125	220217.89	0.0505	P	2.2	2.5
4	☐	10.000	10.375	417313.69	0.0966	P	2.1	3.7
5	☐	100.000	100.629	3809990.36	0.8885	A	1.8	0.6
6	☐	200.000	199.662	7414303.64	1.7575	A	1.5	-0.2

y = 0.0088 * x + 0.0055
R = 1.0000
DL = 0.01764 ppb
BEC = 0.6287 ppb

Weight: <None>
Min Conc: <None>

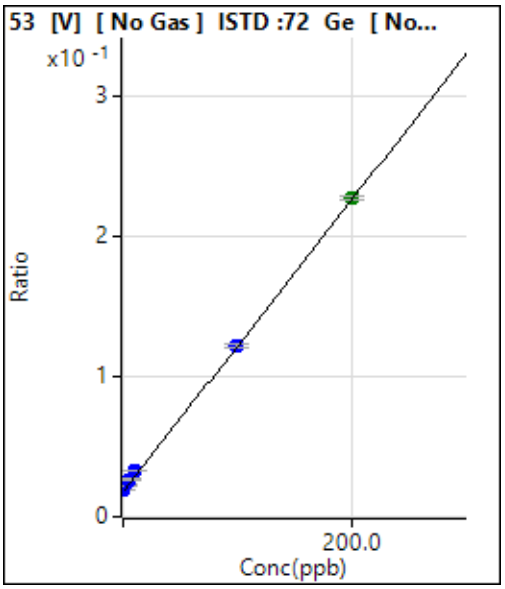
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.05	0.0084	P	0.8	
2	☐	2.000	2.007	37708.50	0.0275	P	3.2	0.4
3	☐	5.000	5.050	76343.33	0.0563	P	3.2	1.0
4	☐	10.000	10.179	142080.10	0.1050	P	0.6	1.8
5	☐	100.000	99.902	1285243.03	0.9565	A	2.4	-0.1
6	☐	200.000	200.039	2558408.92	1.9068	A	2.4	0.0

y = 0.0095 * x + 0.0084
R = 1.0000
DL = 0.02082 ppb
BEC = 0.8859 ppb

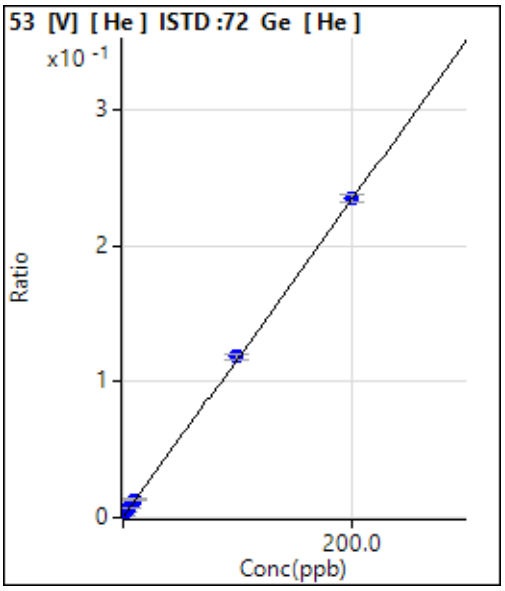
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83088.63	0.0191	P	1.4	
2	☐	2.000	3.432	98592.51	0.0226	P	0.9	71.6
3	☐	5.000	7.256	116073.57	0.0266	P	2.4	45.1
4	☐	10.000	12.910	140450.29	0.0325	P	1.1	29.1
5	☐	100.000	98.982	523398.29	0.1221	P	2.3	-1.0
6	☐	200.000	200.293	959675.51	0.2275	A	1.6	0.1

y = 0.0010 * x + 0.0191
R = 0.9999
DL = 0.7918 ppb
BEC = 18.32 ppb

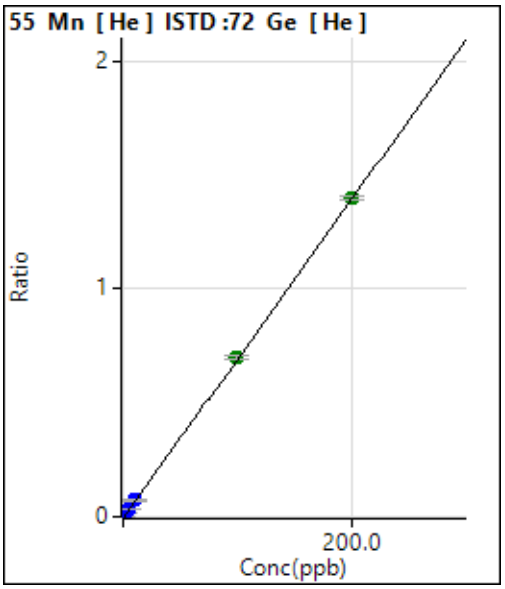
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2040.18	0.0015	P	12.2	
2	☐	2.000	2.147	5477.85	0.0040	P	5.1	7.3
3	☐	5.000	5.010	9933.73	0.0073	P	0.8	0.2
4	☐	10.000	10.162	18048.75	0.0133	P	5.6	1.6
5	☐	100.000	100.029	158763.74	0.1182	P	2.7	0.0
6	☐	200.000	199.976	314950.89	0.2347	P	2.9	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.4654 ppb
BEC = 1.273 ppb

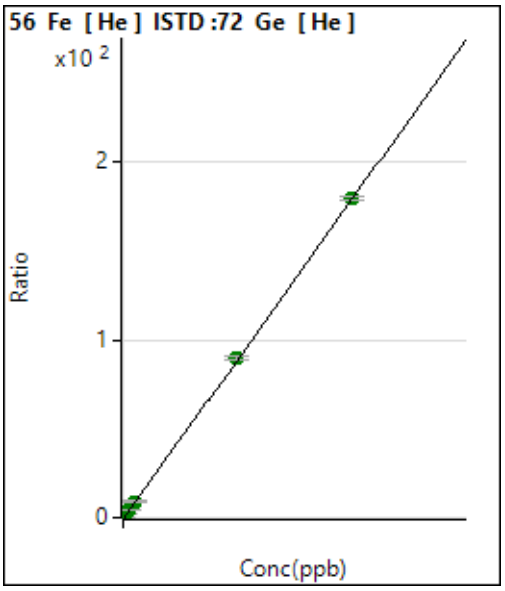
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.71	0.0007	P	8.0	
2	☐	2.000	2.054	20662.40	0.0150	P	2.4	2.7
3	☐	5.000	5.011	48435.26	0.0357	P	3.9	0.2
4	☐	10.000	10.206	97559.34	0.0721	P	1.6	2.1
5	☐	100.000	100.238	943695.17	0.7023	A	2.3	0.2
6	☐	200.000	199.870	1878014.40	1.3997	A	1.1	-0.1

y = 0.0070 * x + 6.6703E-004
R = 1.0000
DL = 0.02299 ppb
BEC = 0.09529 ppb

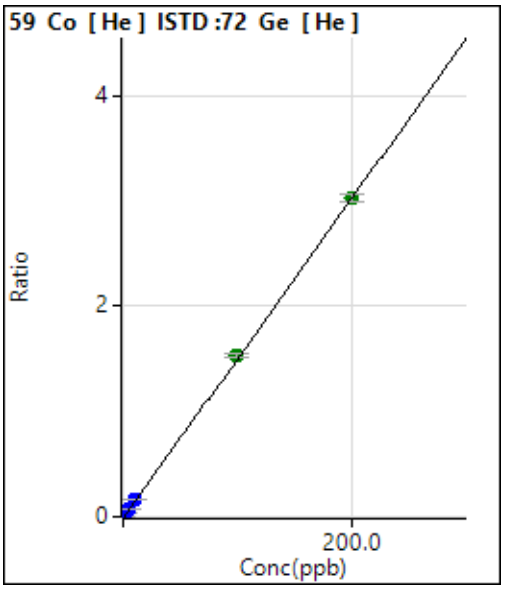
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24682.36	0.0180	P	2.7	
2	☐	200.000	199.740	2490583.92	1.8134	A	2.6	-0.1
3	☐	500.000	494.794	6051915.74	4.4655	A	2.5	-1.0
4	☐	1000.000	1015.032	12368342.31	9.1417	A	1.8	1.5
5	☐	10000.00	10019.84	121048588.2	90.0830	A	2.0	0.2
6	☐	20000.00	19989.46	241097883.0	179.696	A	1.5	-0.1

y = 0.0090 * x + 0.0180
R = 1.0000
DL = 0.1618 ppb
BEC = 1.998 ppb

Weight: <None>
Min Conc: <None>

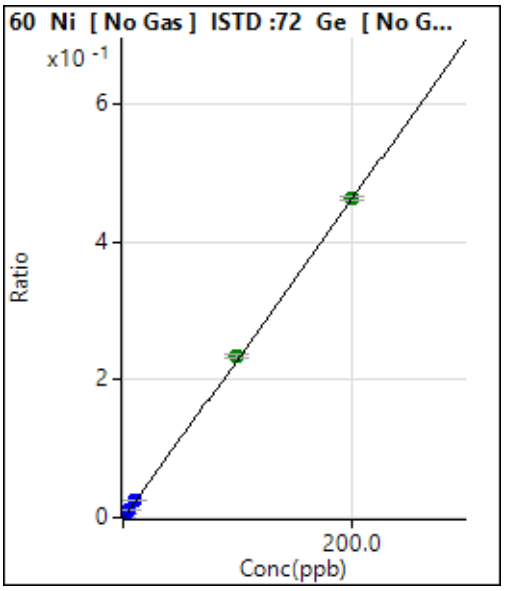


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	10.1	
2	☐	2.000	2.053	42883.69	0.0312	P	2.3	2.7
3	☐	5.000	5.008	103074.24	0.0760	P	1.4	0.2
4	☐	10.000	10.311	211716.47	0.1565	P	1.3	3.1
5	☐	100.000	101.149	2062013.41	1.5345	A	1.7	1.1
6	☐	200.000	199.409	4058702.33	3.0251	A	2.4	-0.3

y = 0.0152 * x + 7.2767E-005
R = 1.0000
DL = 0.001448 ppb
BEC = 0.004797 ppb

Weight: <None>
Min Conc: <None>

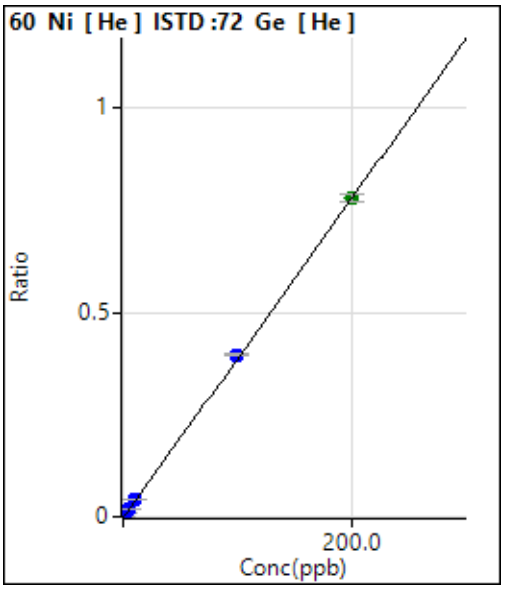
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1850.17	0.0004	P	10.4	
2	☐	2.000	2.046	22508.72	0.0052	P	4.6	2.3
3	☐	5.000	5.135	53765.54	0.0123	P	2.4	2.7
4	☐	10.000	10.399	106019.44	0.0245	P	1.8	4.0
5	☐	100.000	100.420	999918.26	0.2332	A	2.4	0.4
6	☐	200.000	199.766	1955243.62	0.4635	A	1.5	-0.1

y = 0.0023 * x + 4.2438E-004
R = 1.0000
DL = 0.05693 ppb
BEC = 0.1831 ppb

Weight: <None>
Min Conc: <None>

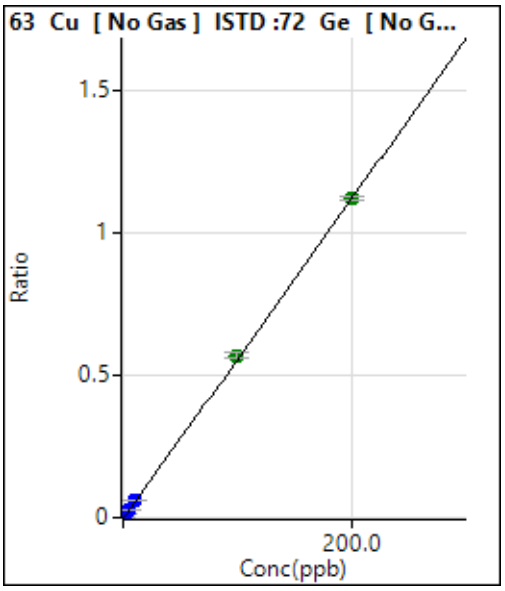


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	853.37	0.0006	P	6.3	
2	☐	2.000	1.982	11515.03	0.0084	P	2.0	-0.9
3	☐	5.000	5.039	27584.63	0.0204	P	1.6	0.8
4	☐	10.000	10.380	55829.97	0.0413	P	0.7	3.8
5	☐	100.000	101.280	533730.77	0.3972	P	1.1	1.3
6	☐	200.000	199.340	1048068.86	0.7811	A	2.3	-0.3

y = 0.0039 * x + 6.2089E-004
R = 1.0000
DL = 0.02982 ppb
BEC = 0.1586 ppb

Weight: <None>
Min Conc: <None>

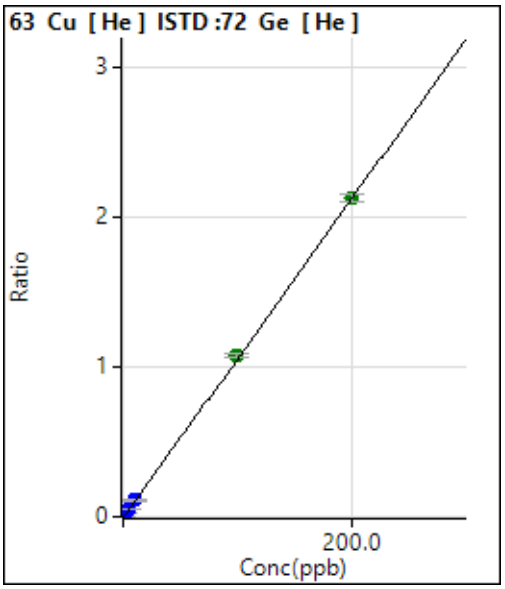
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4254.07	0.0010	P	3.9	
2	☐	2.000	2.100	55776.70	0.0128	P	3.7	5.0
3	☐	5.000	5.163	131090.91	0.0301	P	2.0	3.3
4	☐	10.000	10.504	259902.25	0.0601	P	2.3	5.0
5	☐	100.000	101.341	2451580.54	0.5717	A	3.3	1.3
6	☐	200.000	199.299	4739522.85	1.1235	A	1.6	-0.4

y = 0.0056 * x + 9.7576E-004
R = 1.0000
DL = 0.02033 ppb
BEC = 0.1732 ppb

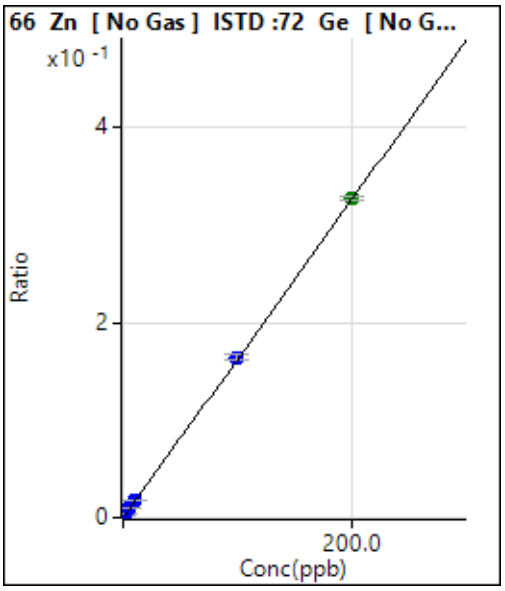
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2306.91	0.0017	P	6.2	
2	☐	2.000	2.026	31900.78	0.0232	P	3.1	1.3
3	☐	5.000	5.024	74695.94	0.0551	P	2.9	0.5
4	☐	10.000	10.183	148798.43	0.1100	P	2.2	1.8
5	☐	100.000	100.803	1442889.72	1.0738	A	1.7	0.8
6	☐	200.000	199.589	2850281.21	2.1244	A	2.2	-0.2

y = 0.0106 * x + 0.0017
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1578 ppb

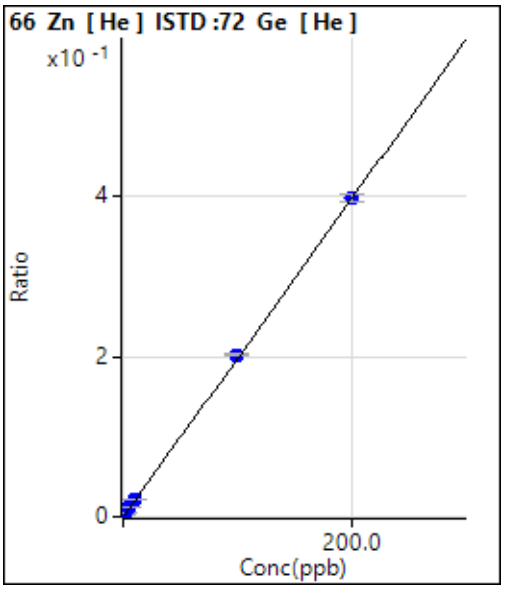
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5441.18	0.0012	P	4.0	
2	☐	2.000	2.174	20882.85	0.0048	P	2.2	8.7
3	☐	5.000	4.954	40687.45	0.0093	P	2.0	-0.9
4	☐	10.000	10.276	77836.49	0.0180	P	1.0	2.8
5	☐	100.000	100.123	705528.43	0.1645	P	2.9	0.1
6	☐	200.000	199.924	1380823.88	0.3273	A	1.5	0.0

y = 0.0016 * x + 0.0012
R = 1.0000
DL = 0.09167 ppb
BEC = 0.7654 ppb

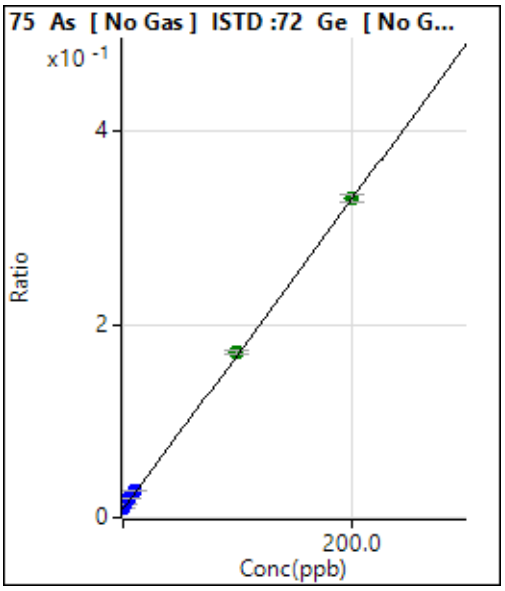
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1990.18	0.0014	P	6.1	
2	☐	2.000	2.207	8015.78	0.0058	P	3.3	10.3
3	☐	5.000	4.795	14884.91	0.0110	P	2.9	-4.1
4	☐	10.000	10.347	29796.05	0.0220	P	3.8	3.5
5	☐	100.000	101.023	271884.24	0.2023	P	1.9	1.0
6	☐	200.000	199.474	534120.45	0.3981	P	2.2	-0.3

y = 0.0020 * x + 0.0014
R = 1.0000
DL = 0.1331 ppb
BEC = 0.7282 ppb

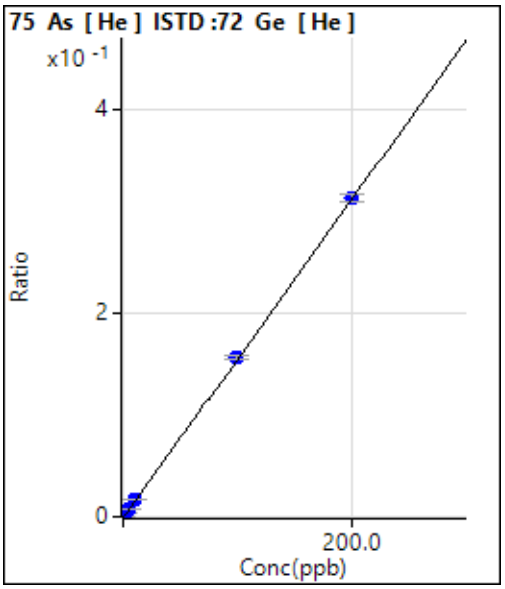
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44629.96	0.0102	P	2.1	
2	☐	2.000	2.424	61562.10	0.0141	P	0.7	21.2
3	☐	5.000	5.698	84584.23	0.0194	P	1.4	14.0
4	☐	10.000	11.112	121405.60	0.0281	P	1.0	11.1
5	☐	100.000	100.501	736109.68	0.1717	A	2.9	0.5
6	☐	200.000	199.672	1396275.29	0.3310	A	1.9	-0.2

y = 0.0016 * x + 0.0102
R = 1.0000
DL = 0.4022 ppb
BEC = 6.373 ppb

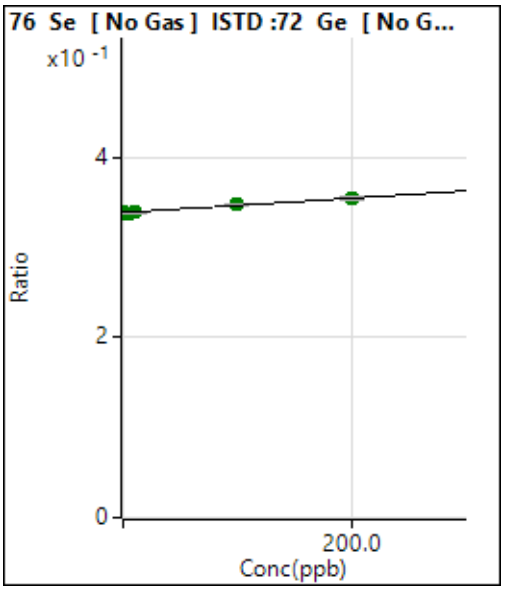
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	394.45	0.0003	P	9.2	
2	☐	2.000	2.029	4761.97	0.0035	P	3.3	1.5
3	☐	5.000	4.886	10765.40	0.0079	P	4.0	-2.3
4	☐	10.000	10.297	22219.21	0.0164	P	0.3	3.0
5	☐	100.000	99.861	210665.33	0.1568	P	1.7	-0.1
6	☐	200.000	200.057	421044.52	0.3138	P	1.9	0.0

y = 0.0016 * x + 2.8699E-004
R = 1.0000
DL = 0.05039 ppb
BEC = 0.1831 ppb

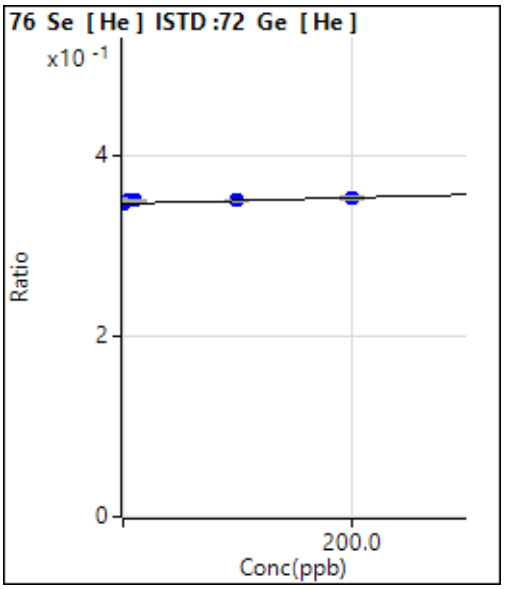
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1478801.86	0.3392	A	0.2	
2	☐	2.000	-20.845	1470482.48	0.3375	A	0.5	-1142.3
3	☐	5.000	-9.961	1476269.25	0.3384	A	0.7	-299.2
4	☐	10.000	7.122	1468759.87	0.3398	A	0.8	-28.8
5	☐	100.000	108.036	1491958.05	0.3479	A	0.6	8.0
6	☐	200.000	196.728	1497989.72	0.3551	A	0.8	-1.6

y = 8.0503E-005 * x + 0.3392
R = 0.9933
DL = 26.72 ppb
BEC = 4214 ppb

Weight: <None>
Min Conc: <None>

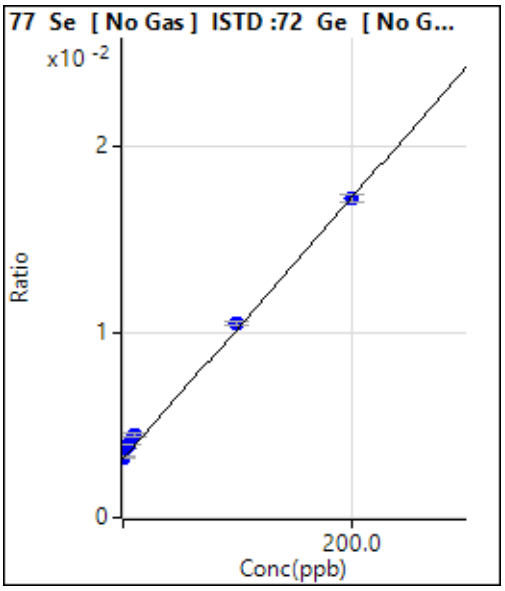


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	477258.47	0.3473	P	1.6	
2	☐	2.000	43.920	478993.38	0.3487	P	0.6	2096.0
3	☐	5.000	95.048	474964.69	0.3504	P	1.3	1801.0
4	☐	10.000	95.966	474172.67	0.3505	P	0.4	859.7
5	☐	100.000	116.344	471879.60	0.3511	P	0.7	16.3
6	☐	200.000	184.859	474179.69	0.3534	P	1.0	-7.6

y = 3.3173E-005 * x + 0.3473
R = 0.8444
DL = 511 ppb
BEC = 1.047E+04 ppb

Weight: <None>
Min Conc: <None>

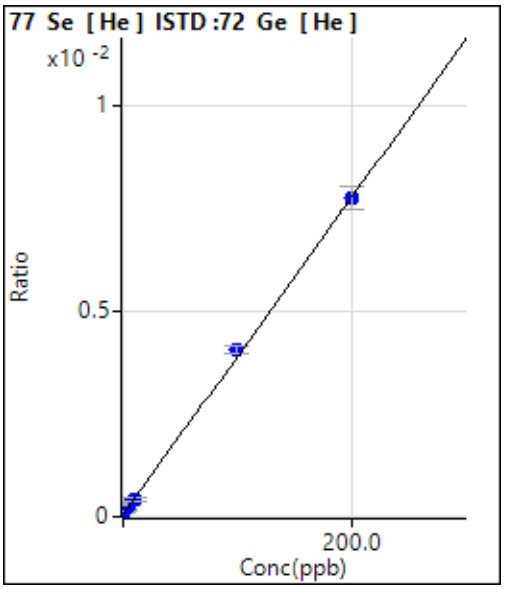
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14247.69	0.0033	P	2.4	
2	☐	2.000	6.380	16193.21	0.0037	P	0.1	219.0
3	☐	5.000	10.105	17357.99	0.0040	P	0.8	102.1
4	☐	10.000	16.915	19273.98	0.0045	P	2.9	69.1
5	☐	100.000	102.003	44787.16	0.0104	P	2.1	2.0
6	☐	200.000	198.482	72696.90	0.0172	P	2.4	-0.8

y = 7.0358E-005 * x + 0.0033
R = 0.9996
DL = 3.326 ppb
BEC = 46.45 ppb

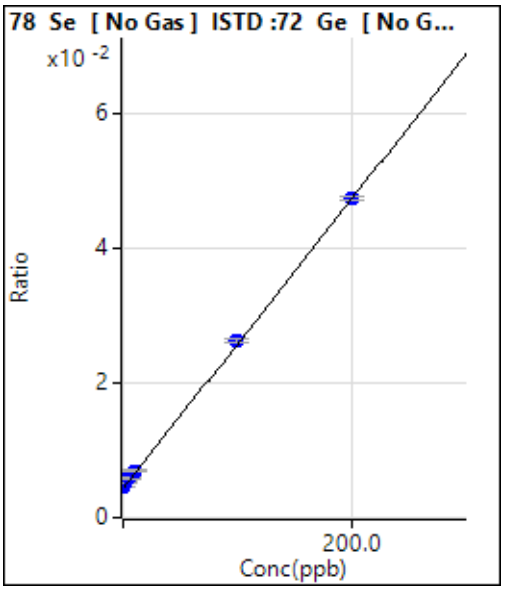
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0001	P	29.7	
2	☐	2.000	1.889	226.67	0.0002	P	23.9	-5.5
3	☐	5.000	5.021	386.68	0.0003	P	16.0	0.4
4	☐	10.000	8.676	576.69	0.0004	P	20.5	-13.2
5	☐	100.000	102.730	5444.52	0.0041	P	4.2	2.7
6	☐	200.000	198.702	10397.49	0.0077	P	7.1	-0.6

y = 3.8537E-005 * x + 9.2136E-005
R = 0.9998
DL = 2.13 ppb
BEC = 2.391 ppb

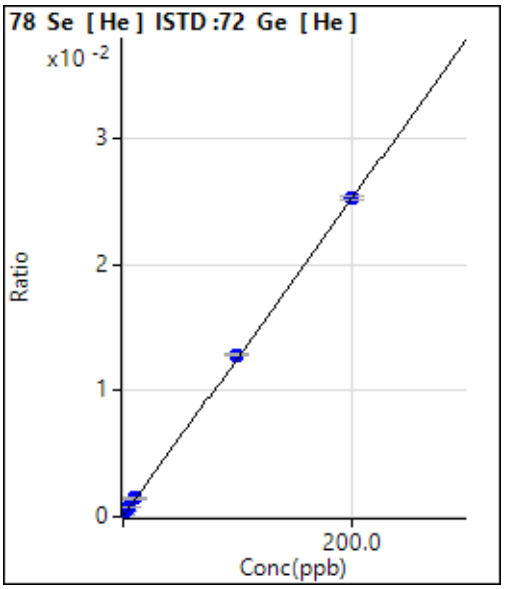
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19974.88	0.0046	P	1.1	
2	☐	2.000	3.082	22849.57	0.0052	P	2.2	54.1
3	☐	5.000	6.009	25627.78	0.0059	P	1.2	20.2
4	☐	10.000	11.047	30076.90	0.0070	P	2.4	10.5
5	☐	100.000	101.059	112838.51	0.0263	P	2.1	1.1
6	☐	200.000	199.382	200225.95	0.0475	P	1.5	-0.3

y = 2.1506E-004 * x + 0.0046
R = 1.0000
DL = 0.7244 ppb
BEC = 21.31 ppb

Weight: <None>
Min Conc: <None>

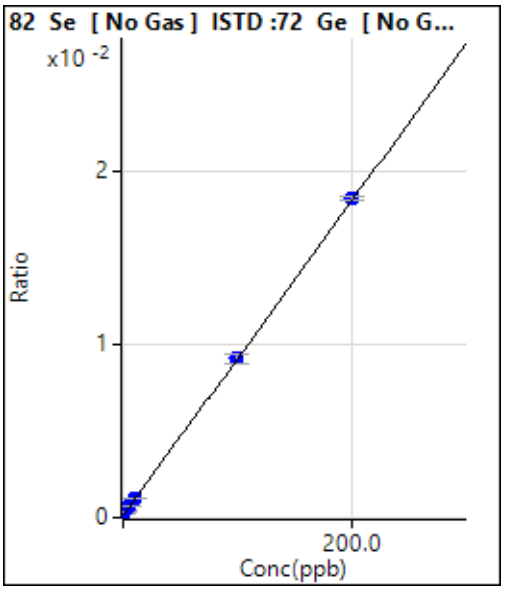


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	207.33	0.0002	P	9.0	
2	☐	2.000	2.035	560.01	0.0004	P	3.6	1.8
3	☐	5.000	4.869	1037.38	0.0008	P	3.3	-2.6
4	☐	10.000	10.420	1982.82	0.0015	P	3.5	4.2
5	☐	100.000	100.711	17278.96	0.0129	P	1.5	0.7
6	☐	200.000	199.626	33999.63	0.0253	P	0.9	-0.2

y = 1.2618E-004 * x + 1.5086E-004
R = 1.0000
DL = 0.3219 ppb
BEC = 1.196 ppb

Weight: <None>
Min Conc: <None>

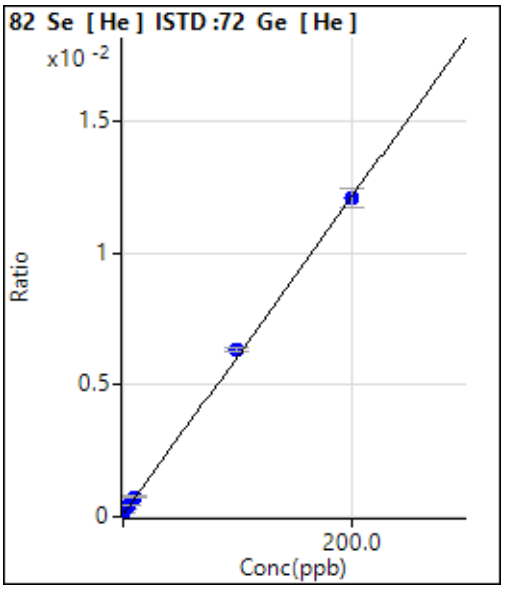
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.72	0.0002	P	11.2	
2	☐	2.000	2.170	1773.48	0.0004	P	12.5	8.5
3	☐	5.000	5.150	2953.70	0.0007	P	3.0	3.0
4	☐	10.000	9.707	4714.26	0.0011	P	5.3	-2.9
5	☐	100.000	98.591	39220.46	0.0091	P	5.7	-1.4
6	☐	200.000	200.714	77654.86	0.0184	P	1.1	0.4

y = 9.0661E-005 * x + 2.1029E-004
R = 1.0000
DL = 0.7828 ppb
BEC = 2.32 ppb

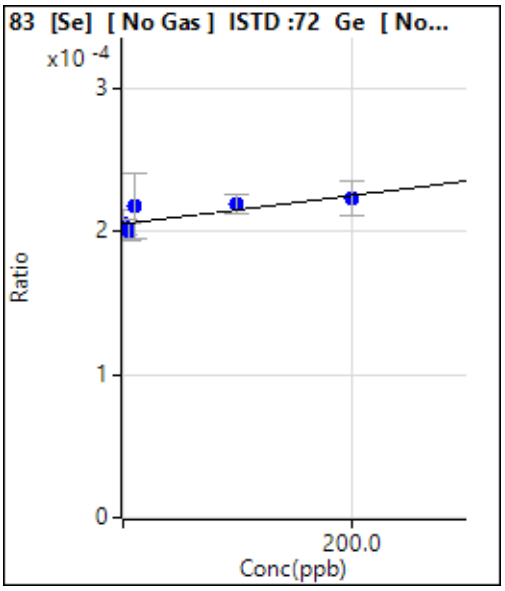
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	183.33	0.0001	P	11.2	
2	☐	2.000	2.814	416.69	0.0003	P	9.1	40.7
3	☐	5.000	4.717	566.69	0.0004	P	7.3	-5.7
4	☐	10.000	10.312	1023.39	0.0008	P	7.4	3.1
5	☐	100.000	103.225	8559.53	0.0064	P	2.7	3.2
6	☐	200.000	198.371	16249.99	0.0121	P	5.7	-0.8

y = 6.0403E-005 * x + 1.3338E-004
R = 0.9998
DL = 0.7413 ppb
BEC = 2.208 ppb

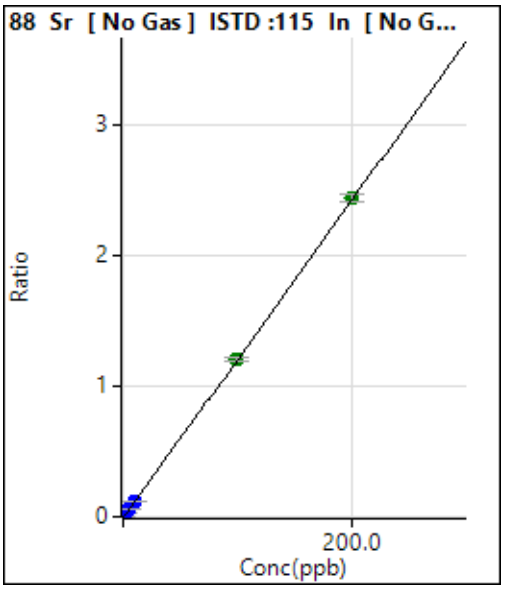
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	10.2	
2	☐	2.000	-21.422	883.38	0.0002	P	5.7	-1171.1
3	☐	5.000	-54.975	870.04	0.0002	P	6.1	-1199.5
4	☐	10.000	123.969	940.05	0.0002	P	21.2	1139.7
5	☐	100.000	133.868	936.72	0.0002	P	6.3	33.9
6	☐	200.000	179.101	940.05	0.0002	P	11.0	-10.4

y = 1.0027E-007 * x + 2.0493E-004
R = 0.7832
DL = 624.1 ppb
BEC = 2044 ppb

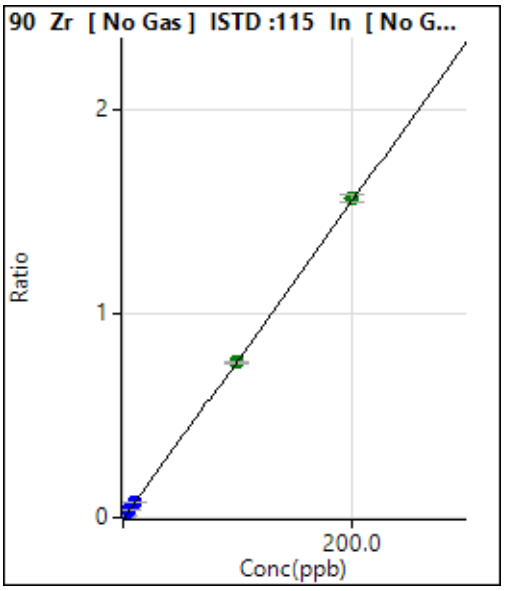
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7812.39	0.0015	P	1.5	
2	☐	2.000	2.010	133137.65	0.0260	P	1.1	0.5
3	☐	5.000	4.997	316180.22	0.0623	P	2.8	-0.1
4	☐	10.000	9.918	627104.84	0.1222	P	2.8	-0.8
5	☐	100.000	98.854	6074094.70	1.2049	A	1.7	-1.1
6	☐	200.000	200.577	11988085.24	2.4432	A	2.4	0.3

y = 0.0122 * x + 0.0015
R = 1.0000
DL = 0.005412 ppb
BEC = 0.1238 ppb

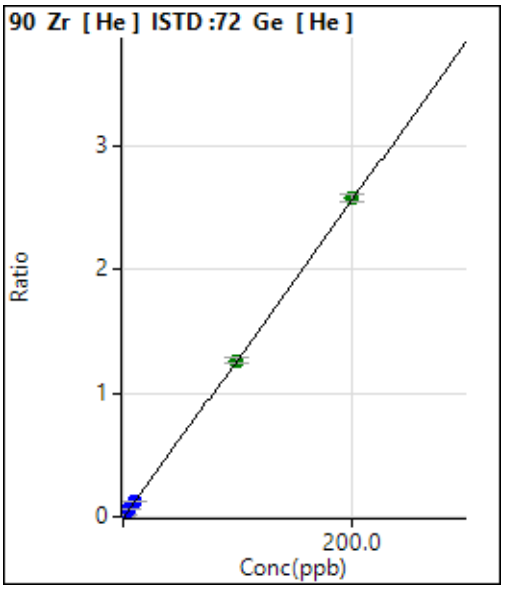
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0003	P	7.1	
2	☐	2.000	1.680	68439.61	0.0134	P	0.8	-16.0
3	☐	5.000	4.447	176951.56	0.0349	P	1.5	-11.1
4	☐	10.000	9.236	370131.15	0.0721	P	2.6	-7.6
5	☐	100.000	97.794	3837519.84	0.7612	A	1.9	-2.2
6	☐	200.000	201.158	7681848.01	1.5655	A	2.2	0.6

y = 0.0078 * x + 2.8096E-004
R = 0.9999
DL = 0.007646 ppb
BEC = 0.03611 ppb

Weight: <None>
Min Conc: <None>

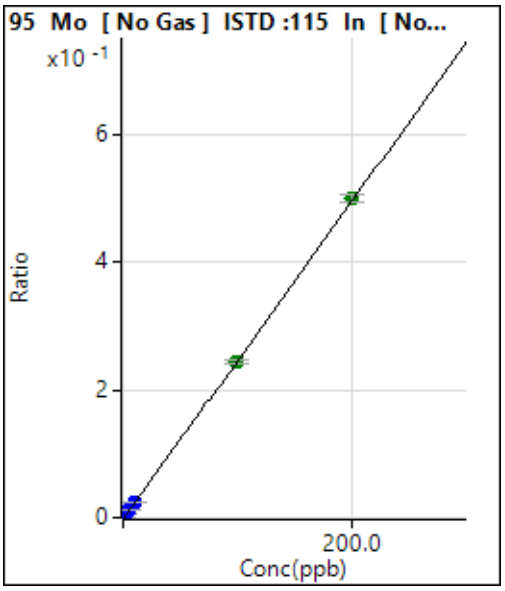


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.82	0.0013	P	10.5	
2	☐	2.000	1.645	30808.94	0.0224	P	3.3	-17.7
3	☐	5.000	4.338	77311.14	0.0570	P	1.9	-13.2
4	☐	10.000	9.413	165455.46	0.1223	P	1.6	-5.9
5	☐	100.000	98.526	1703700.91	1.2680	A	2.8	-1.5
6	☐	200.000	200.786	3465216.30	2.5826	A	1.9	0.4

y = 0.0129 * x + 0.0013
R = 1.0000
DL = 0.03127 ppb
BEC = 0.09942 ppb

Weight: <None>
Min Conc: <None>

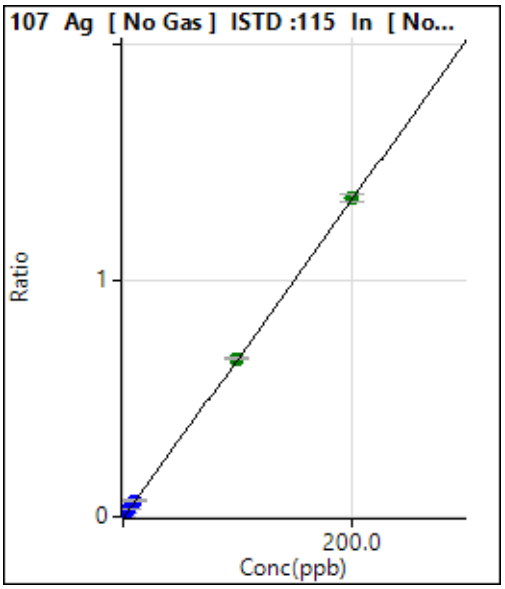
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	7.2	
2	☐	2.000	1.969	25327.51	0.0049	P	3.4	-1.6
3	☐	5.000	4.905	62170.55	0.0123	P	1.8	-1.9
4	☐	10.000	9.766	125029.71	0.0244	P	1.9	-2.3
5	☐	100.000	97.895	1229887.35	0.2440	A	2.1	-2.1
6	☐	200.000	201.067	2458478.61	0.5011	A	2.7	0.5

y = 0.0025 * x + 3.6018E-005
R = 0.9999
DL = 0.003127 ppb
BEC = 0.01445 ppb

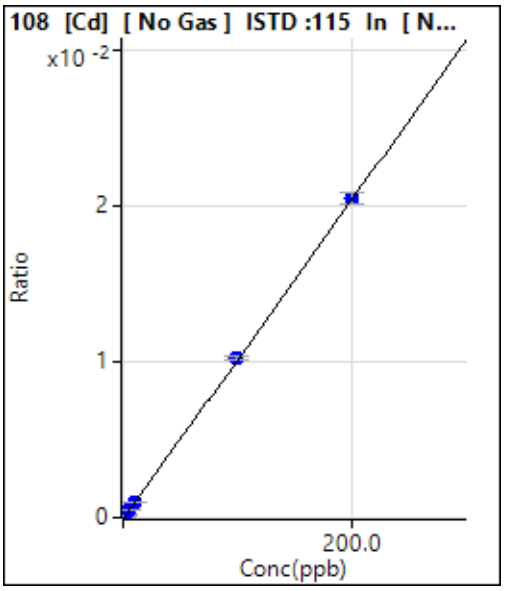
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0001	P	15.7	
2	☐	2.000	2.047	71175.99	0.0139	P	1.9	2.4
3	☐	5.000	5.143	176036.40	0.0347	P	2.4	2.9
4	☐	10.000	10.175	351688.51	0.0685	P	1.6	1.7
5	☐	100.000	99.331	3368375.68	0.6682	A	1.7	-0.7
6	☐	200.000	200.322	6611304.90	1.3474	A	2.7	0.2

y = 0.0067 * x + 1.1626E-004
R = 1.0000
DL = 0.00812 ppb
BEC = 0.01729 ppb

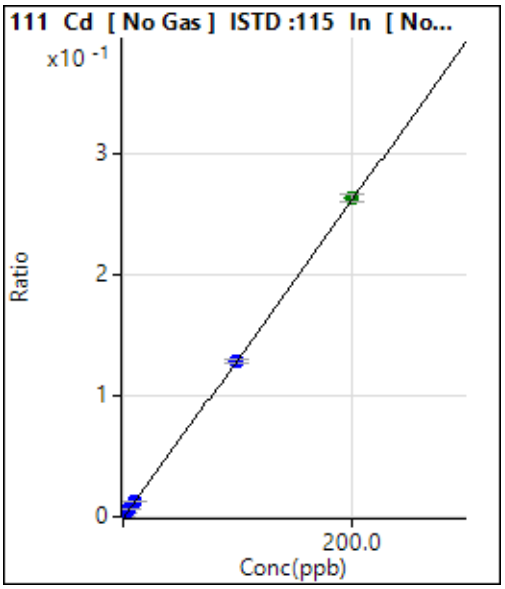
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.734	913.38	0.0002	P	16.7	-13.3
3	☐	5.000	4.931	2563.64	0.0005	P	10.4	-1.4
4	☐	10.000	9.680	5087.73	0.0010	P	10.4	-3.2
5	☐	100.000	99.811	51532.94	0.0102	P	2.6	-0.2
6	☐	200.000	200.115	100560.89	0.0205	P	3.3	0.1

y = 1.0241E-004 * x + 6.4510E-007
R = 1.0000
DL = 0.03273 ppb
BEC = 0.006299 ppb

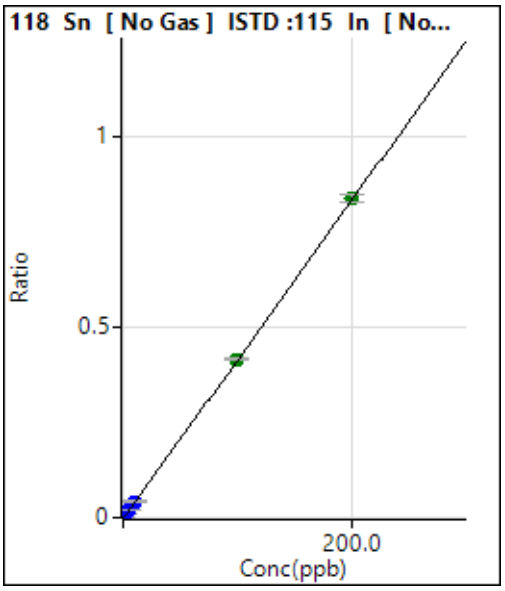
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.24	0.0000	P	-3402.	
2	☐	2.000	2.073	13928.58	0.0027	P	8.9	3.7
3	☐	5.000	4.982	33117.89	0.0065	P	1.3	-0.4
4	☐	10.000	9.978	67081.60	0.0131	P	2.0	-0.2
5	☐	100.000	98.478	650560.95	0.1291	P	2.3	-1.5
6	☐	200.000	200.762	1290978.25	0.2631	A	2.5	0.4

y = 0.0013 * x - 5.8477E-008
R = 1.0000
DL = 0.004555 ppb
BEC = -4.462E-05 ppb

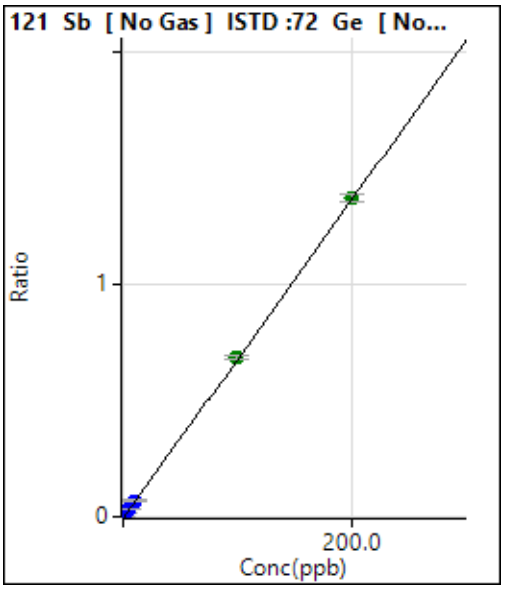
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4667.58	0.0009	P	7.7	
2	☐	2.000	1.978	46879.95	0.0091	P	2.3	-1.1
3	☐	5.000	4.924	108709.76	0.0214	P	2.0	-1.5
4	☐	10.000	10.030	219191.69	0.0427	P	1.7	0.3
5	☐	100.000	99.268	2091126.43	0.4148	A	1.5	-0.7
6	☐	200.000	200.367	4103949.42	0.8364	A	2.2	0.2

y = 0.0042 * x + 9.0048E-004
R = 1.0000
DL = 0.04998 ppb
BEC = 0.216 ppb

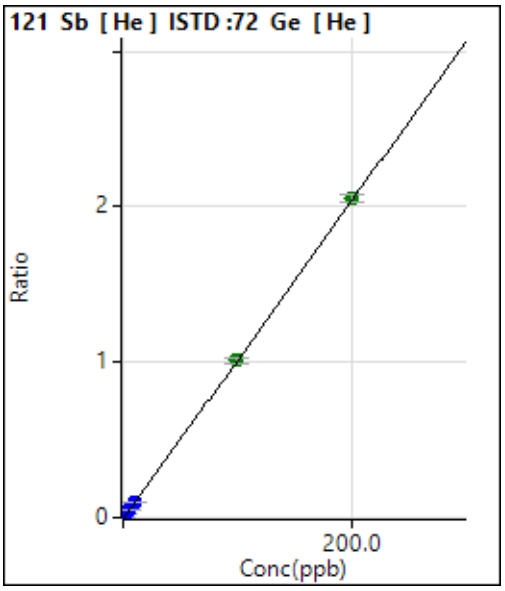
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.69	0.0001	P	7.2	
2	☐	2.000	1.996	60063.03	0.0138	P	3.0	-0.2
3	☐	5.000	4.948	148398.70	0.0340	P	2.6	-1.0
4	☐	10.000	10.187	302257.92	0.0699	P	2.2	1.9
5	☐	100.000	99.551	2926320.48	0.6825	A	2.4	-0.4
6	☐	200.000	200.217	5789795.33	1.3725	A	2.3	0.1

y = 0.0069 * x + 1.0707E-004
R = 1.0000
DL = 0.003375 ppb
BEC = 0.01562 ppb

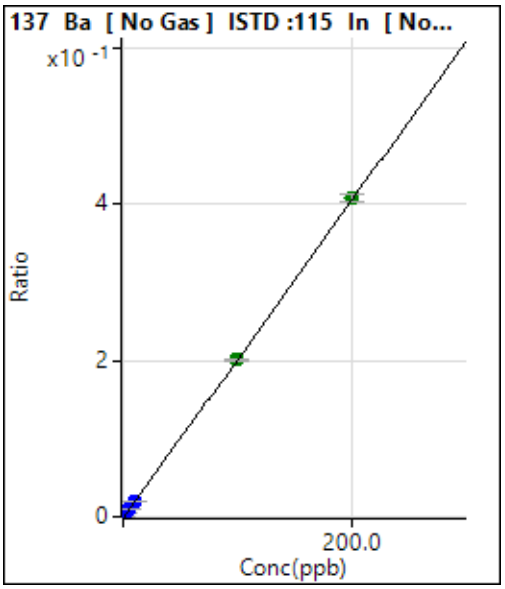
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0002	P	22.6	
2	☐	2.000	1.945	27609.22	0.0201	P	1.3	-2.7
3	☐	5.000	4.873	67863.70	0.0501	P	2.1	-2.5
4	☐	10.000	9.941	137943.19	0.1020	P	3.9	-0.6
5	☐	100.000	98.722	1358293.83	1.0109	A	3.0	-1.3
6	☐	200.000	200.646	2756499.75	2.0544	A	2.1	0.3

y = 0.0102 * x + 1.8430E-004
R = 1.0000
DL = 0.01221 ppb
BEC = 0.018 ppb

Weight: <None>
Min Conc: <None>

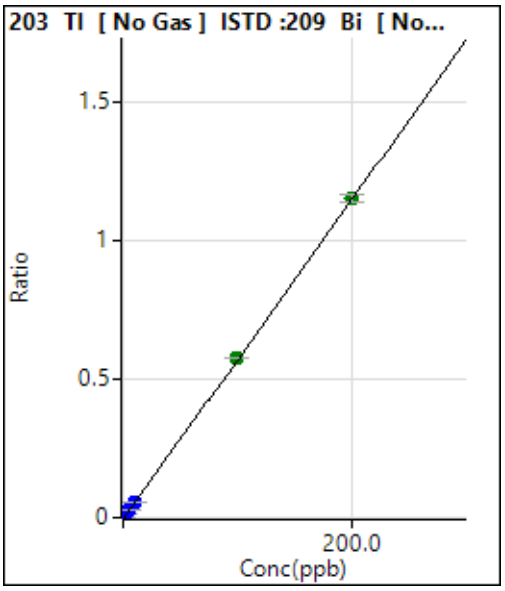


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0002	P	4.1	
2	☐	2.000	2.070	22452.86	0.0044	P	2.7	3.5
3	☐	5.000	5.103	53499.26	0.0105	P	2.6	2.1
4	☐	10.000	9.952	104682.67	0.0204	P	2.0	-0.5
5	☐	100.000	98.825	1013632.77	0.2011	A	1.2	-1.2
6	☐	200.000	200.587	2001738.25	0.4079	A	2.5	0.3

y = 0.0020 * x + 1.7291E-004
R = 1.0000
DL = 0.01052 ppb
BEC = 0.08506 ppb

Weight: <None>
Min Conc: <None>

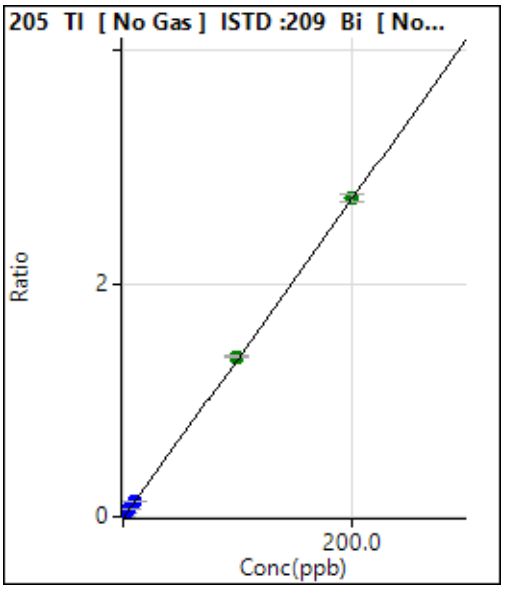
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0000	P	35.9	
2	☐	2.000	1.982	52667.60	0.0114	P	2.8	-0.9
3	☐	5.000	4.926	131454.82	0.0284	P	2.2	-1.5
4	☐	10.000	9.872	263846.17	0.0569	P	1.7	-1.3
5	☐	100.000	100.064	2587898.45	0.5765	A	1.0	0.1
6	☐	200.000	199.977	5103374.92	1.1522	A	2.7	0.0

y = 0.0058 * x + 2.4422E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.004239 ppb

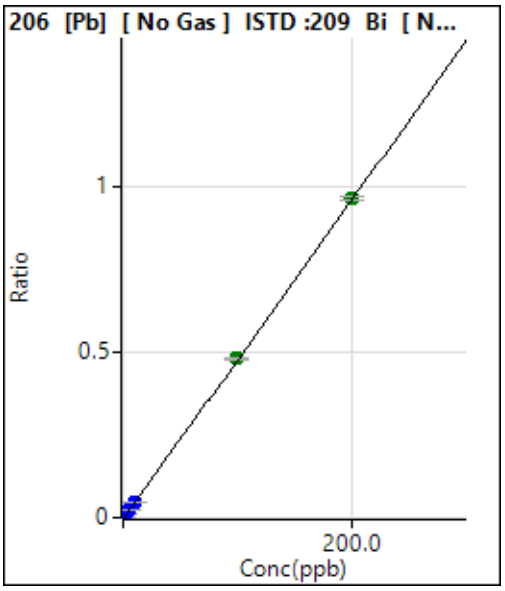
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	18.8	
2	☐	2.000	1.973	124291.66	0.0270	P	2.0	-1.4
3	☐	5.000	4.897	310000.76	0.0670	P	1.0	-2.1
4	☐	10.000	9.845	624127.84	0.1346	P	1.3	-1.6
5	☐	100.000	100.082	6140256.16	1.3679	A	1.3	0.1
6	☐	200.000	199.970	12105944.40	2.7331	A	2.4	0.0

y = 0.0137 * x + 5.2440E-005
R = 1.0000
DL = 0.002162 ppb
BEC = 0.003837 ppb

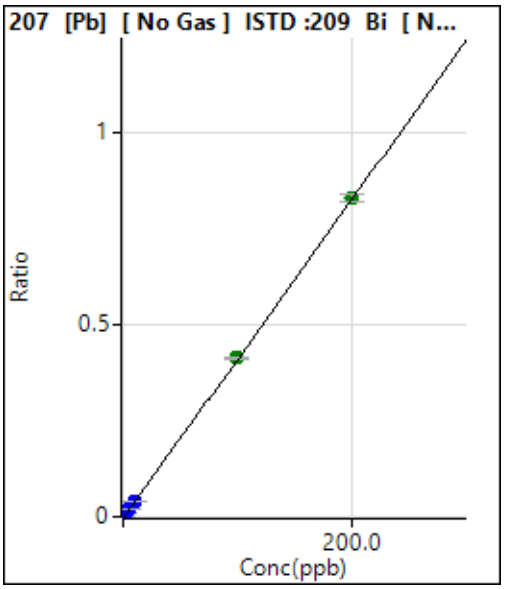
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0001	P	9.2	
2	☐	2.000	2.006	44870.50	0.0098	P	2.0	0.3
3	☐	5.000	4.984	111428.16	0.0241	P	1.6	-0.3
4	☐	10.000	10.031	224207.78	0.0484	P	1.3	0.3
5	☐	100.000	99.533	2149761.58	0.4789	A	1.2	-0.5
6	☐	200.000	200.232	4267185.87	0.9634	A	1.6	0.1

y = 0.0048 * x + 1.0056E-004
R = 1.0000
DL = 0.005757 ppb
BEC = 0.0209 ppb

Weight: <None>
Min Conc: <None>

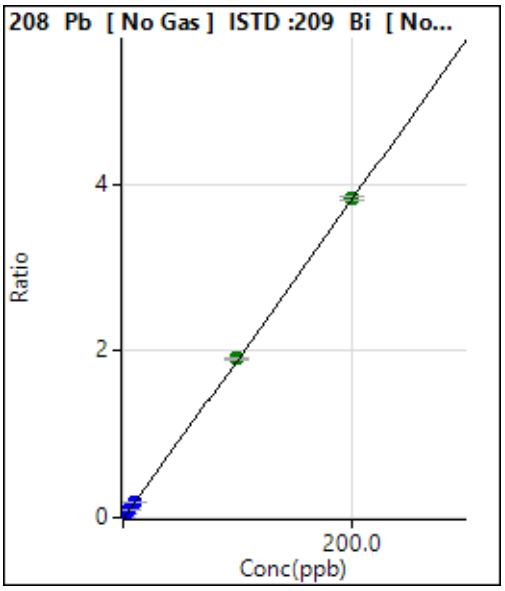


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	420.02	0.0001	P	33.4	
2	☐	2.000	1.969	37961.12	0.0083	P	2.3	-1.5
3	☐	5.000	4.940	95165.85	0.0206	P	1.3	-1.2
4	☐	10.000	9.983	192215.65	0.0415	P	1.2	-0.2
5	☐	100.000	99.707	1854863.41	0.4132	A	1.1	-0.3
6	☐	200.000	200.149	3673857.97	0.8294	A	2.0	0.1

y = 0.0041 * x + 9.0507E-005
R = 1.0000
DL = 0.02192 ppb
BEC = 0.02184 ppb

Weight: <None>
Min Conc: <None>

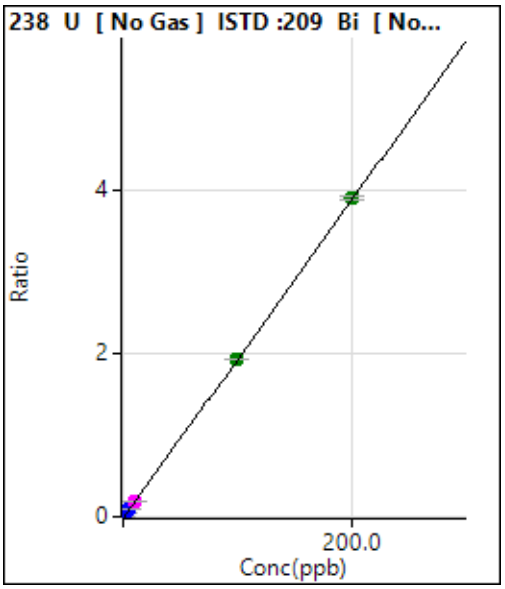
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1946.76	0.0004	P	9.2	
2	☐	2.000	1.988	177134.63	0.0385	P	2.0	-0.6
3	☐	5.000	4.957	441414.48	0.0954	P	1.3	-0.9
4	☐	10.000	10.011	891156.12	0.1922	P	1.1	0.1
5	☐	100.000	99.856	8588625.03	1.9134	A	1.3	-0.1
6	☐	200.000	200.073	16978853.50	3.8332	A	1.8	0.0

y = 0.0192 * x + 4.1940E-004
R = 1.0000
DL = 0.006041 ppb
BEC = 0.02189 ppb

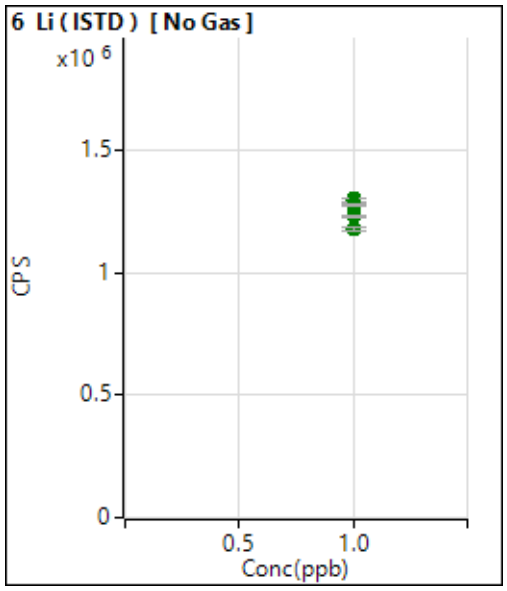
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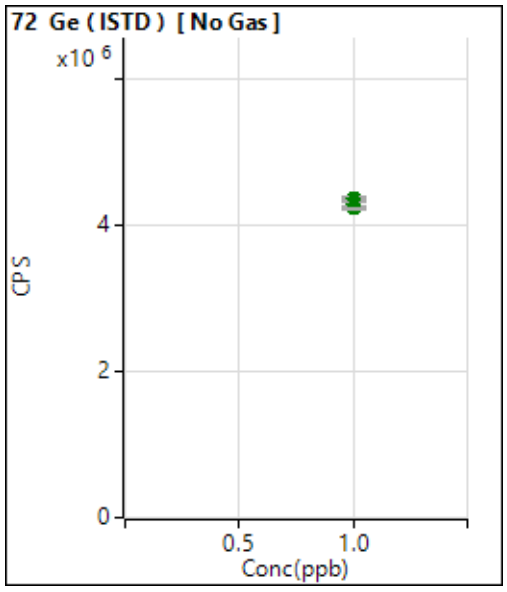
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	12.0	
2	☐	2.000	1.890	170411.61	0.0370	P	2.4	-5.5
3	☐	5.000	4.711	426581.55	0.0922	P	1.2	-5.8
4	☐	10.000	9.582	868651.94	0.1873	M	2.0	-4.2
5	☐	100.000	99.206	8699904.46	1.9384	A	0.6	-0.8
6	☐	200.000	200.426	17346070.99	3.9161	A	1.8	0.2

y = 0.0195 * x + 1.1772E-004
R = 1.0000
DL = 0.002167 ppb
BEC = 0.006025 ppb

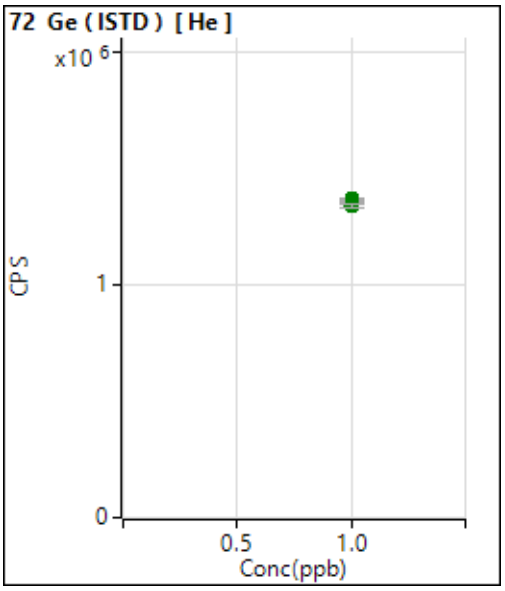
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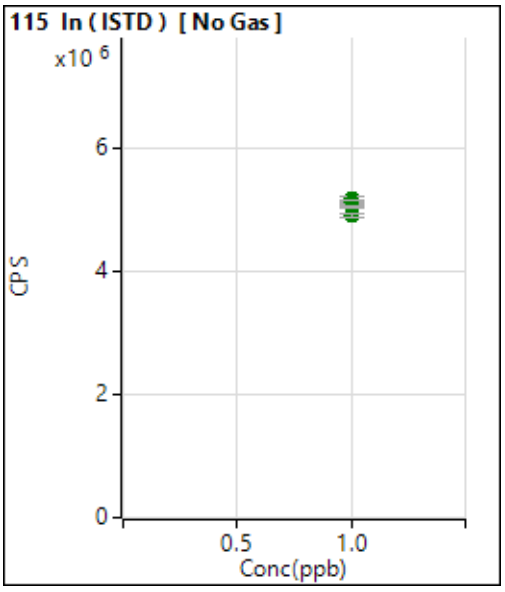
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1303313.05		A	0.4	
2	☐	1.000		1293096.02		A	1.6	
3	☐	1.000		1283534.37		A	0.3	
4	☐	1.000		1275635.33		A	0.1	
5	☐	1.000		1229032.35		A	0.2	
6	☐	1.000		1176331.61		A	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4359457.85		A	0.3	
2	☐	1.000		4356546.60		A	0.3	
3	☐	1.000		4362439.94		A	0.8	
4	☐	1.000		4322696.60		A	0.9	
5	☐	1.000		4288391.50		A	0.9	
6	☐	1.000		4218912.75		A	0.6	

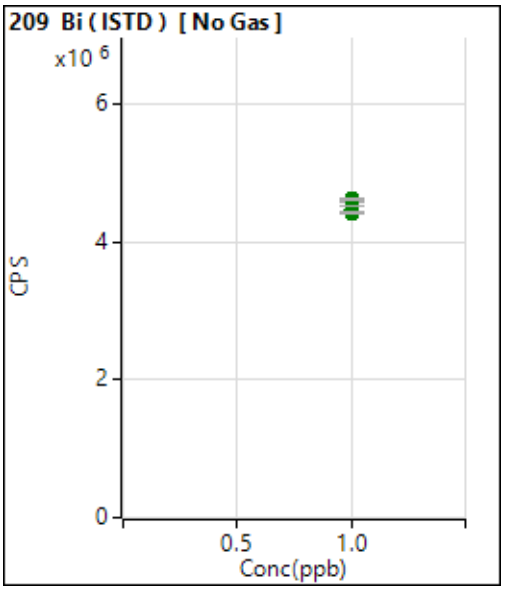


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1374323.41		A	0.2	
2	☐	1.000		1373552.69		A	0.4	
3	☐	1.000		1355522.32		A	1.2	
4	☐	1.000		1352998.88		A	0.5	
5	☐	1.000		1343953.73		A	1.3	
6	☐	1.000		1341850.97		A	1.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5185395.31		A	1.3	
2	☐	1.000		5125227.36		A	0.7	
3	☐	1.000		5072595.80		A	0.8	
4	☐	1.000		5131137.70		A	1.1	
5	☐	1.000		5041006.13		A	0.2	
6	☐	1.000		4907591.41		A	1.2	

Calibration for 105_ICV.d

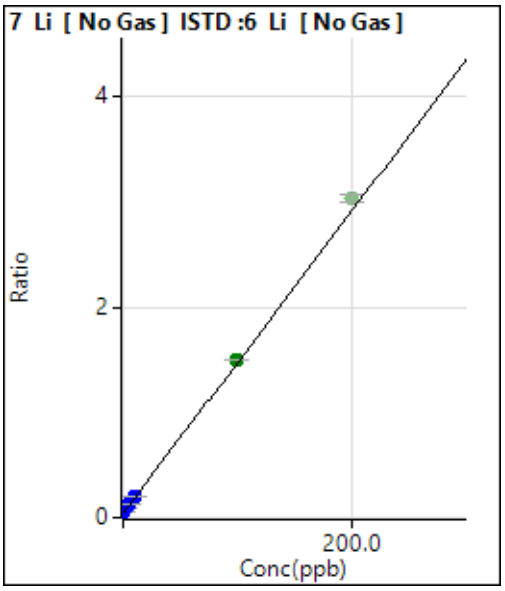


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4642202.64		A	0.5	
2	☐	1.000		4601017.85		A	0.3	
3	☐	1.000		4628663.99		A	1.0	
4	☐	1.000		4636493.99		A	0.6	
5	☐	1.000		4488256.81		A	1.3	
6	☐	1.000		4429482.12		A	0.6	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

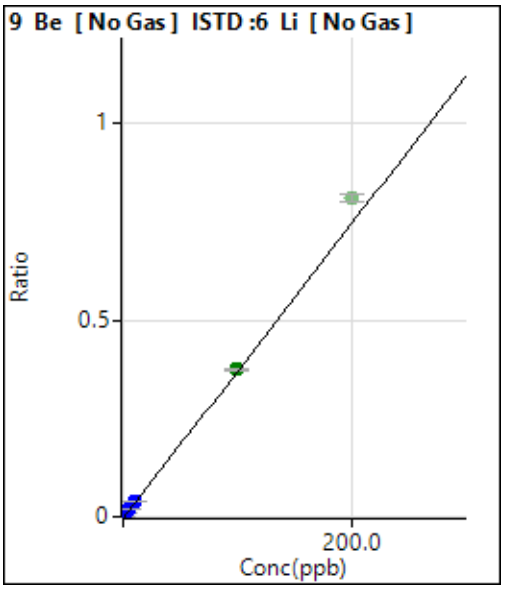
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/29/2024 10:29:10 AM
2	011CALS.d	2/10/200	5/29/2024 10:31:53 AM
3	012CALS.d	5/25/500	5/29/2024 10:34:33 AM
4	013CALS.d	10/50/100	5/29/2024 10:37:14 AM
5	014CALS.d	100/500/10K	5/29/2024 10:39:53 AM
6	015CALS.d	200/1000/20K	5/29/2024 10:42:34 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80608.82	0.0564	P	0.6	
2	☐	2.000	1.915	118924.25	0.0839	P	1.8	-4.3
3	☐	5.000	4.805	177155.72	0.1254	P	1.1	-3.9
4	☐	10.000	9.859	276433.86	0.1979	P	1.8	-1.4
5	☐	100.000	100.026	2035333.98	1.4921	A	0.3	0.0
6	☑	200.000		4040253.07	3.0340	A	2.2	

y = 0.0144 * x + 0.0564
R = 1.0000
DL = 0.0661 ppb
BEC = 3.929 ppb

Weight: <None>
Min Conc: <None>

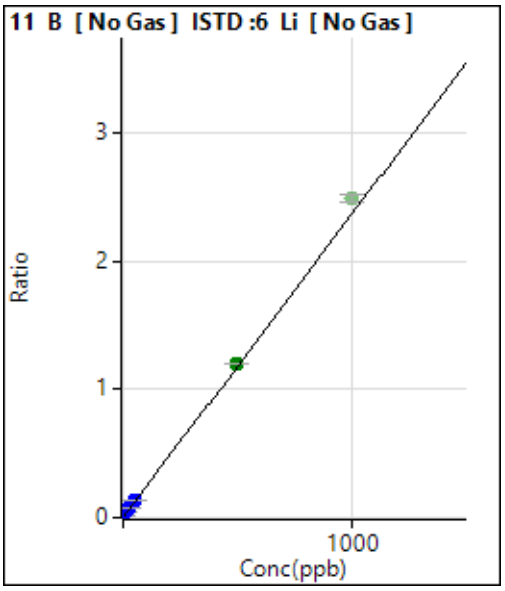


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	29.8	
2	☐	2.000	1.973	10535.64	0.0074	P	2.5	-1.3
3	☐	5.000	5.123	27189.46	0.0192	P	4.0	2.5
4	☐	10.000	10.215	53544.03	0.0383	P	2.3	2.1
5	☐	100.000	99.973	511366.74	0.3749	A	1.6	0.0
6	☑	200.000		1080146.81	0.8112	A	2.9	

y = 0.0037 * x + 3.1507E-005
R = 1.0000
DL = 0.007517 ppb
BEC = 0.008403 ppb

Weight: <None>
Min Conc: <None>

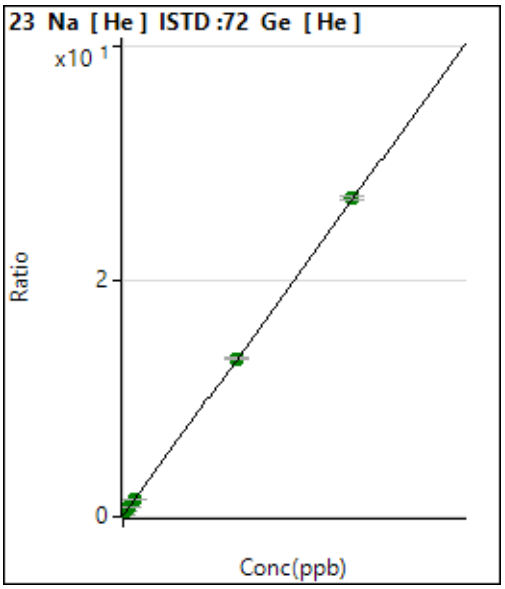
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21621.56	0.0151	P	0.6	
2	☐	10.000	9.925	54689.72	0.0386	P	2.4	-0.7
3	☐	25.000	24.428	102913.21	0.0728	P	1.8	-2.3
4	☐	50.000	49.030	182918.51	0.1310	P	1.8	-1.9
5	☐	500.000	500.127	1632269.56	1.1966	A	0.3	0.0
6	☑	1000.000		3317099.85	2.4910	A	2.5	

y = 0.0024 * x + 0.0151
R = 1.0000
DL = 0.1162 ppb
BEC = 6.403 ppb

Weight: <None>
Min Conc: <None>

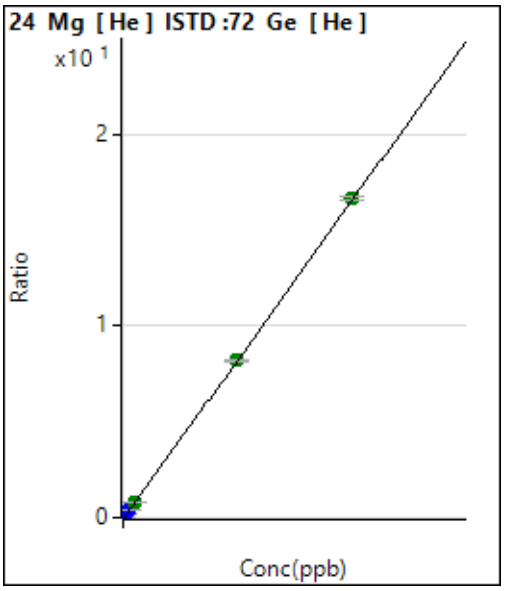


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293767.90	0.2310	P	0.9	
2	☐	200.000	186.715	599579.52	0.4806	A	1.3	-6.6
3	☐	500.000	463.850	1063923.00	0.8512	A	2.0	-7.2
4	☐	1000.000	975.818	1902532.99	1.5358	A	1.0	-2.4
5	☐	10000.00	9868.769	16300522.26	13.4275	A	1.5	-1.3
6	☐	20000.00	20067.86	32693223.68	27.0657	A	1.3	0.3

y = 0.0013 * x + 0.2310
R = 1.0000
DL = 4.627 ppb
BEC = 172.7 ppb

Weight: <None>
Min Conc: <None>

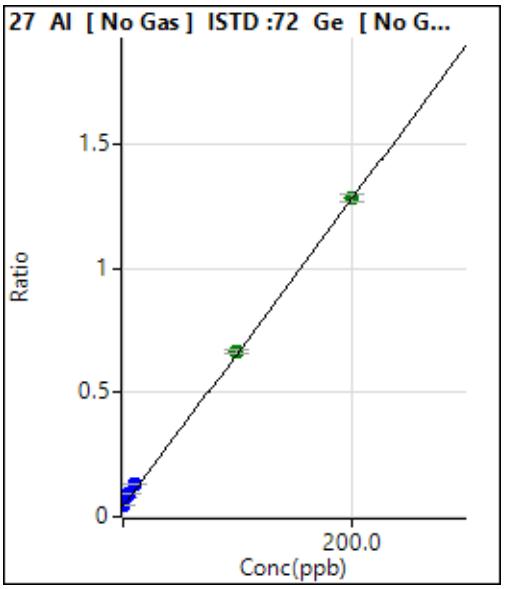
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.11	0.0012	P	7.2	
2	☐	200.000	190.029	198415.28	0.1590	P	2.0	-5.0
3	☐	500.000	473.233	492752.78	0.3942	P	2.3	-5.4
4	☐	1000.000	982.084	1011830.79	0.8168	A	1.5	-1.8
5	☐	10000.00	9871.318	9953434.64	8.1990	A	1.8	-1.3
6	☐	20000.00	20066.00	20130258.03	16.6653	A	1.3	0.3

y = 8.3046E-004 * x + 0.0012
R = 1.0000
DL = 0.322 ppb
BEC = 1.486 ppb

Weight: <None>
Min Conc: <None>

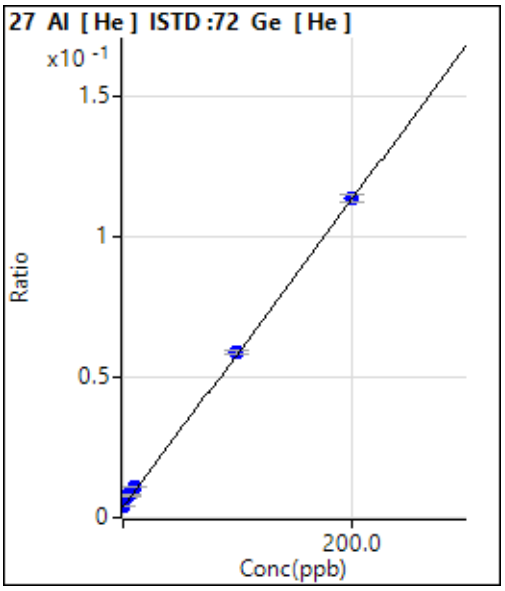


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	199746.04	0.0476	P	2.1	
2	☐	2.000	4.336	309293.57	0.0744	P	1.6	116.8
3	☐	5.000	7.410	384926.87	0.0934	P	1.4	48.2
4	☐	10.000	13.278	530705.45	0.1297	P	2.5	32.8
5	☐	100.000	99.883	2665271.94	0.6646	A	1.8	-0.1
6	☐	200.000	199.811	5111843.57	1.2819	A	1.8	-0.1

y = 0.0062 * x + 0.0476
R = 0.9999
DL = 0.4777 ppb
BEC = 7.711 ppb

Weight: <None>
Min Conc: <None>

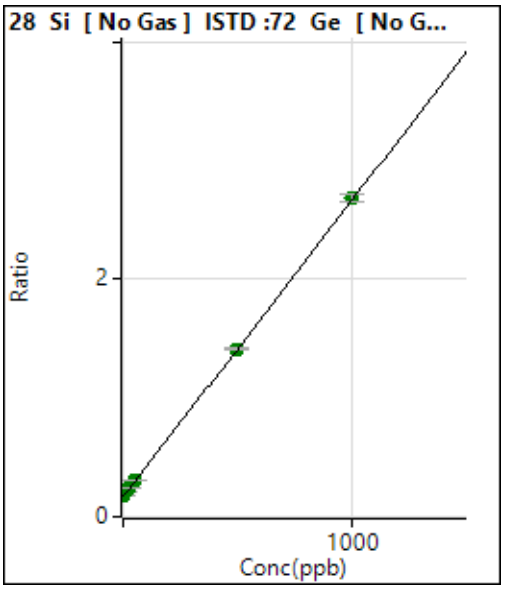
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5504.52	0.0043	P	4.9	
2	☐	2.000	4.473	8456.00	0.0068	P	1.5	123.6
3	☐	5.000	6.621	9940.35	0.0080	P	5.1	32.4
4	☐	10.000	12.536	13867.03	0.0112	P	0.1	25.4
5	☐	100.000	99.951	71713.01	0.0591	P	2.1	0.0
6	☐	200.000	199.832	137433.59	0.1138	P	2.0	-0.1

y = 5.4772E-004 * x + 0.0043
R = 0.9999
DL = 1.165 ppb
BEC = 7.901 ppb

Weight: <None>
Min Conc: <None>

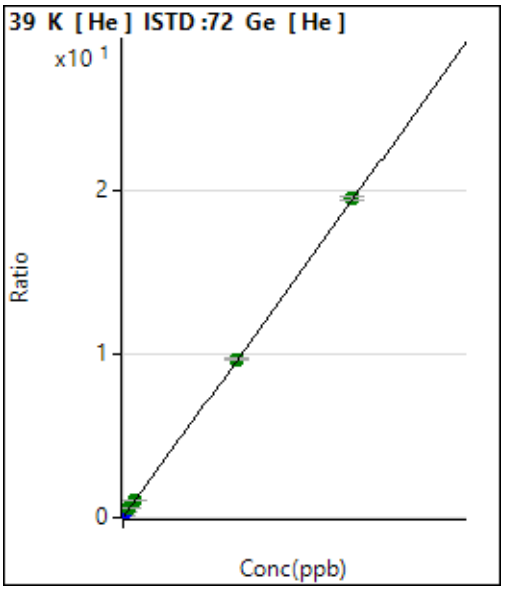


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	762259.39	0.1818	A	0.3	
2	☐	10.000	9.676	855730.90	0.2059	A	0.6	-3.2
3	☐	25.000	24.069	996524.02	0.2418	A	0.6	-3.7
4	☐	50.000	47.884	1233003.63	0.3012	A	0.8	-4.2
5	☐	500.000	492.650	5657539.50	1.4108	A	1.4	-1.5
6	☐	1000.000	1003.807	10710766.09	2.6860	A	2.1	0.4

y = 0.0025 * x + 0.1818
R = 1.0000
DL = 0.7144 ppb
BEC = 72.86 ppb

Weight: <None>
Min Conc: <None>

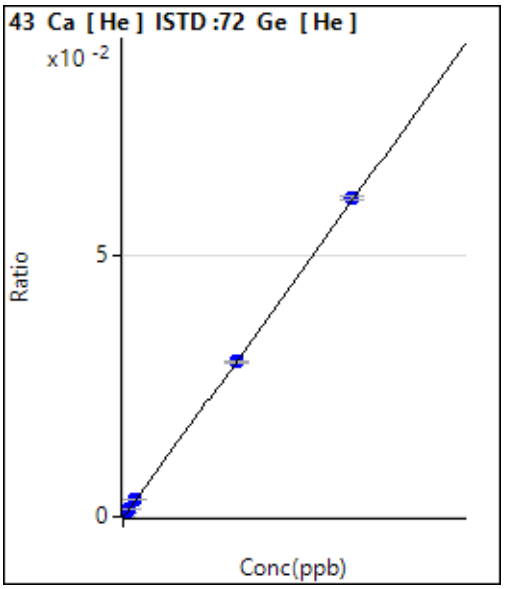
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147083.61	0.1156	P	1.8	
2	☐	200.000	190.956	375395.23	0.3009	P	1.8	-4.5
3	☐	500.000	474.351	719843.82	0.5759	A	1.6	-5.1
4	☐	1000.000	981.991	1323558.68	1.0684	A	1.2	-1.8
5	☐	10000.00	9883.309	11781614.41	9.7052	A	1.1	-1.2
6	☐	20000.00	20059.97	23650084.65	19.5795	A	0.6	0.3

y = 9.7028E-004 * x + 0.1156
R = 1.0000
DL = 6.352 ppb
BEC = 119.2 ppb

Weight: <None>
Min Conc: <None>

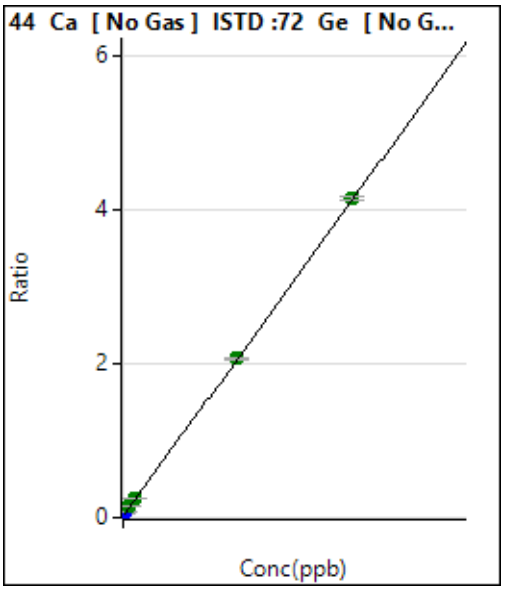


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	40.5	
2	☐	200.000	218.153	920.05	0.0007	P	11.2	9.1
3	☐	500.000	470.856	1876.83	0.0015	P	2.3	-5.8
4	☐	1000.000	1032.924	3963.98	0.0032	P	2.2	3.3
5	☐	10000.00	9762.944	35906.67	0.0296	P	1.6	-2.4
6	☐	20000.00	20117.42	73516.84	0.0609	P	1.3	0.6

y = 3.0216E-006 * x + 7.8699E-005
R = 0.9999
DL = 31.64 ppb
BEC = 26.05 ppb

Weight: <None>
Min Conc: <None>

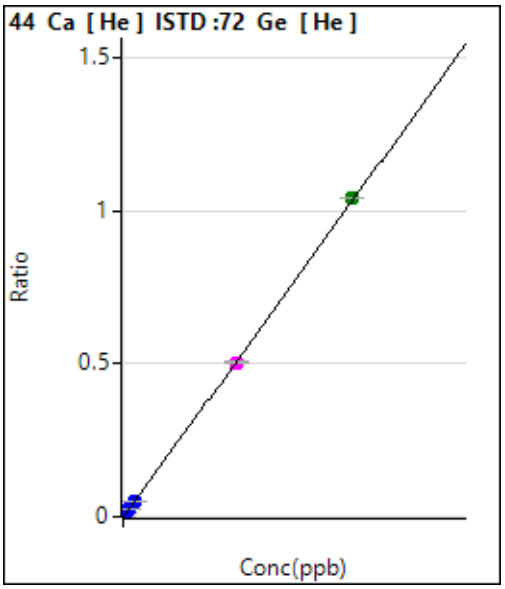
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	168054.53	0.0401	P	1.3	
2	☐	200.000	211.947	347107.31	0.0835	P	1.1	6.0
3	☐	500.000	519.192	603721.05	0.1465	A	2.0	3.8
4	☐	1000.000	1014.017	1014859.10	0.2479	A	1.8	1.4
5	☐	10000.00	9884.048	8285584.87	2.0661	A	2.0	-1.2
6	☐	20000.00	20056.67	16554127.67	4.1514	A	1.7	0.3

y = 2.0498E-004 * x + 0.0401
R = 1.0000
DL = 7.759 ppb
BEC = 195.5 ppb

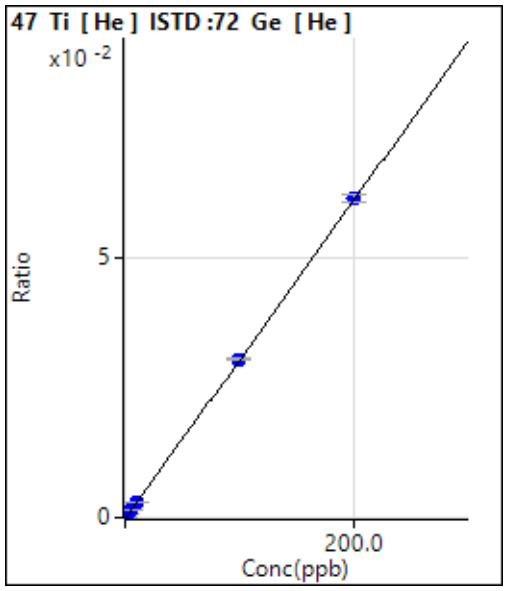
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3213.76	0.0025	P	5.8	
2	☐	200.000	200.944	16106.25	0.0129	P	3.8	0.5
3	☐	500.000	477.402	34005.20	0.0272	P	1.9	-4.5
4	☐	1000.000	969.881	65226.06	0.0527	P	2.3	-3.0
5	☐	10000.00	9732.564	613747.44	0.5056	M	2.0	-2.7
6	☐	20000.00	20135.77	1260152.89	1.0433	A	0.3	0.7

y = 5.1686E-005 * x + 0.0025
R = 0.9999
DL = 8.47 ppb
BEC = 48.9 ppb

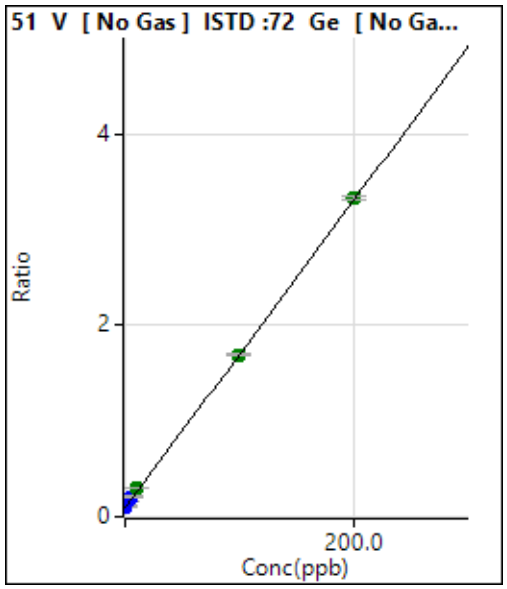
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	68.6	
2	☐	2.000	1.954	763.37	0.0006	P	9.7	-2.3
3	☐	5.000	4.627	1786.82	0.0014	P	6.6	-7.5
4	☐	10.000	9.726	3707.23	0.0030	P	7.7	-2.7
5	☐	100.000	99.266	36919.31	0.0304	P	1.3	-0.7
6	☐	200.000	200.390	74143.89	0.0614	P	1.9	0.2

y = 3.0624E-004 * x + 1.3064E-005
R = 1.0000
DL = 0.08776 ppb
BEC = 0.04266 ppb

Weight: <None>
Min Conc: <None>

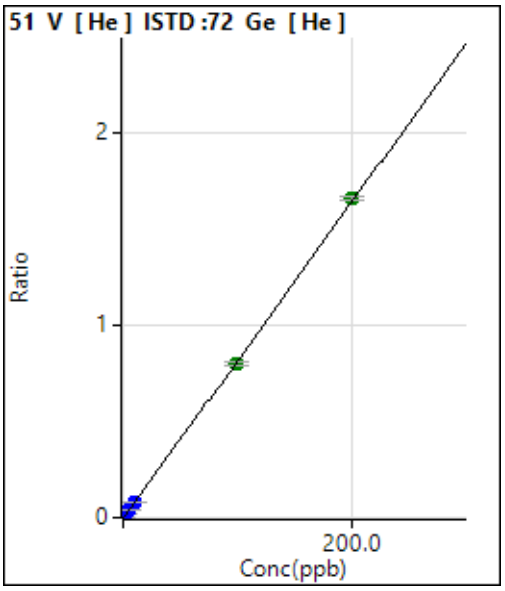


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461834.39	0.1101	P	0.5	
2	☐	2.000	2.988	657127.26	0.1581	P	1.1	49.4
3	☐	5.000	6.251	867554.09	0.2105	P	1.7	25.0
4	☐	10.000	11.736	1222300.28	0.2986	A	1.3	17.4
5	☐	100.000	98.623	6793375.79	1.6940	A	1.7	-1.4
6	☐	200.000	200.560	13283594.36	3.3312	A	1.4	0.3

y = 0.0161 * x + 0.1101
R = 0.9999
DL = 0.1124 ppb
BEC = 6.857 ppb

Weight: <None>
Min Conc: <None>

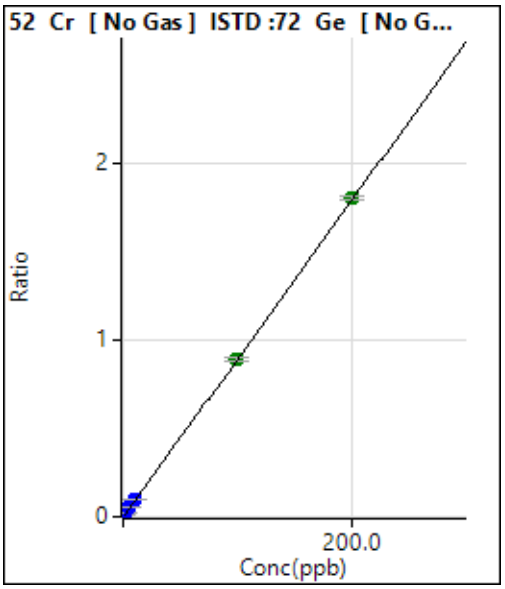
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3734.97	0.0029	P	3.3	
2	☐	2.000	1.910	23221.71	0.0186	P	3.0	-4.5
3	☐	5.000	4.791	52840.29	0.0423	P	3.2	-4.2
4	☐	10.000	9.752	102838.41	0.0830	P	1.5	-2.5
5	☐	100.000	97.243	972969.82	0.8015	A	2.1	-2.8
6	☐	200.000	201.397	2001199.57	1.6567	A	0.8	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.03565 ppb
BEC = 0.3575 ppb

Weight: <None>
Min Conc: <None>

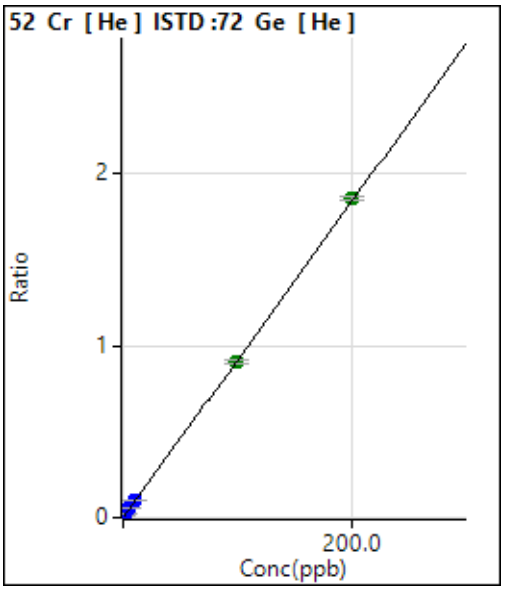


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25513.80	0.0061	P	0.7	
2	☐	2.000	2.049	101436.18	0.0244	P	0.6	2.4
3	☐	5.000	5.010	209728.65	0.0509	P	2.8	0.2
4	☐	10.000	10.075	393690.85	0.0962	P	3.0	0.7
5	☐	100.000	98.818	3568302.24	0.8898	A	1.8	-1.2
6	☐	200.000	200.587	7177513.85	1.7999	A	1.7	0.3

y = 0.0089 * x + 0.0061
R = 1.0000
DL = 0.01407 ppb
BEC = 0.6803 ppb

Weight: <None>
Min Conc: <None>

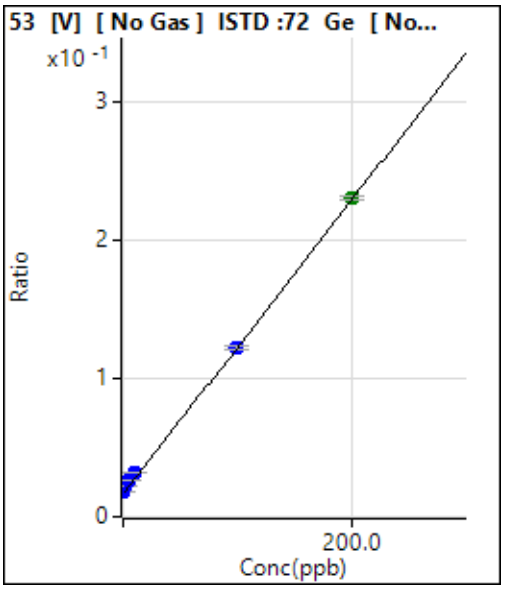
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11488.27	0.0090	P	5.2	
2	☐	2.000	1.952	33644.44	0.0270	P	2.0	-2.4
3	☐	5.000	4.921	67819.51	0.0543	P	3.6	-1.6
4	☐	10.000	9.915	124075.61	0.1002	P	1.3	-0.9
5	☐	100.000	97.776	1102025.32	0.9077	A	2.7	-2.2
6	☐	200.000	201.119	2243865.12	1.8576	A	1.0	0.6

y = 0.0092 * x + 0.0090
R = 0.9999
DL = 0.1524 ppb
BEC = 0.9824 ppb

Weight: <None>
Min Conc: <None>

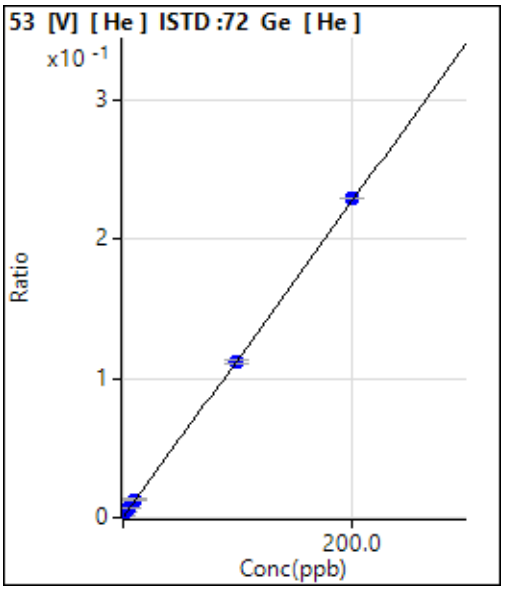


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73809.56	0.0176	P	1.5	
2	☐	2.000	4.588	93380.15	0.0225	P	2.0	129.4
3	☐	5.000	8.050	107743.59	0.0261	P	1.2	61.0
4	☐	10.000	13.809	132031.80	0.0323	P	0.9	38.1
5	☐	100.000	98.709	490674.39	0.1224	P	2.1	-1.3
6	☐	200.000	200.353	918086.91	0.2302	A	1.4	0.2

y = 0.0011 * x + 0.0176
R = 0.9998
DL = 0.722 ppb
BEC = 16.58 ppb

Weight: <None>
Min Conc: <None>

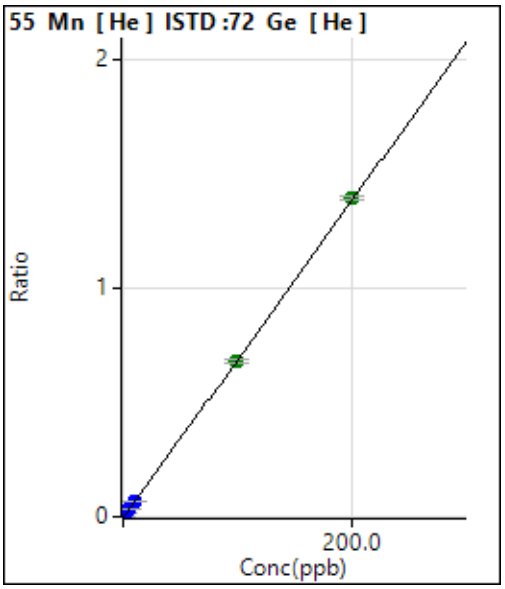
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1713.47	0.0013	P	7.2	
2	☐	2.000	2.199	4790.93	0.0038	P	6.0	10.0
3	☐	5.000	5.099	8906.37	0.0071	P	5.5	2.0
4	☐	10.000	10.192	15972.79	0.0129	P	4.9	1.9
5	☐	100.000	97.767	136121.58	0.1121	P	2.3	-2.2
6	☐	200.000	201.102	276867.57	0.2292	P	0.5	0.6

y = 0.0011 * x + 0.0013
R = 0.9999
DL = 0.2576 ppb
BEC = 1.189 ppb

Weight: <None>
Min Conc: <None>

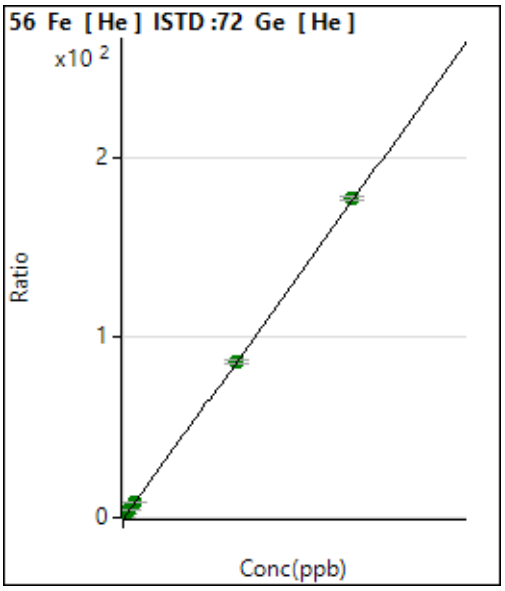


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0008	P	12.0	
2	☐	2.000	1.901	17438.01	0.0140	P	3.9	-5.0
3	☐	5.000	4.731	42000.91	0.0336	P	2.6	-5.4
4	☐	10.000	9.779	84980.74	0.0686	P	3.7	-2.2
5	☐	100.000	98.303	828549.83	0.6825	A	2.9	-1.7
6	☐	200.000	200.867	1683482.89	1.3937	A	0.9	0.4

y = 0.0069 * x + 7.9444E-004
R = 1.0000
DL = 0.04136 ppb
BEC = 0.1146 ppb

Weight: <None>
Min Conc: <None>

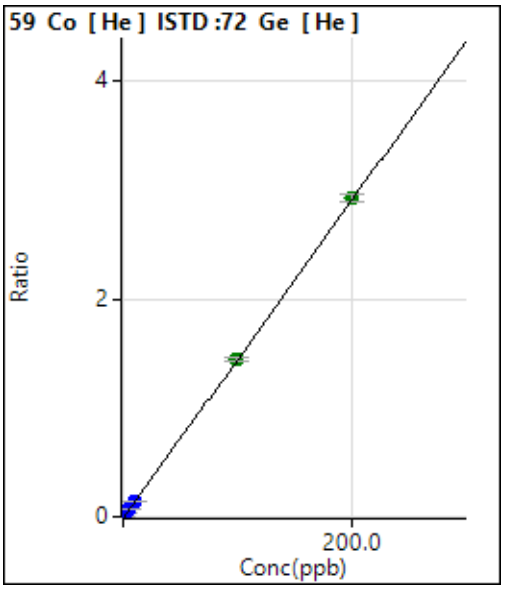
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27424.18	0.0216	P	2.1	
2	☐	200.000	190.126	2117621.74	1.6975	A	2.8	-4.9
3	☐	500.000	476.057	5272041.69	4.2180	A	2.0	-4.8
4	☐	1000.000	983.947	10770542.34	8.6951	A	2.6	-1.6
5	☐	10000.00	9785.140	104740625.1	86.2777	A	2.1	-2.1
6	☐	20000.00	20108.93	2141431768	177.282	A	1.1	0.5

y = 0.0088 * x + 0.0216
R = 0.9999
DL = 0.1538 ppb
BEC = 2.446 ppb

Weight: <None>
Min Conc: <None>

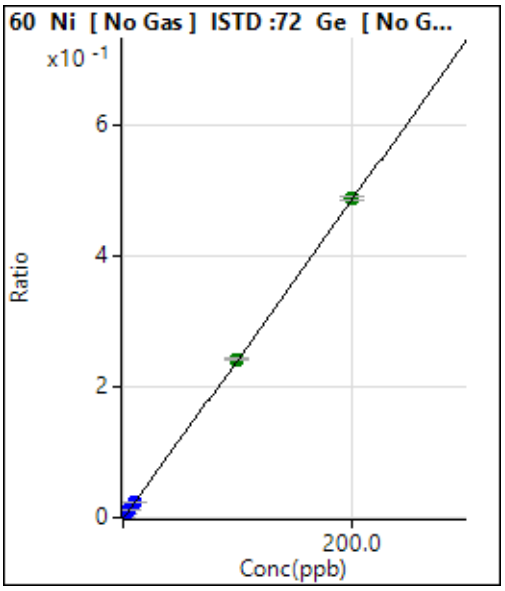


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	12.4	
2	☐	2.000	1.951	35686.65	0.0286	P	2.5	-2.4
3	☐	5.000	4.854	88744.77	0.0710	P	1.7	-2.9
4	☐	10.000	10.032	181616.32	0.1466	P	3.1	0.3
5	☐	100.000	98.851	1752746.12	1.4438	A	1.9	-1.1
6	☐	200.000	200.577	3538649.94	2.9295	A	2.3	0.3

y = 0.0146 * x + 1.1007E-004
R = 1.0000
DL = 0.002804 ppb
BEC = 0.007536 ppb

Weight: <None>
Min Conc: <None>

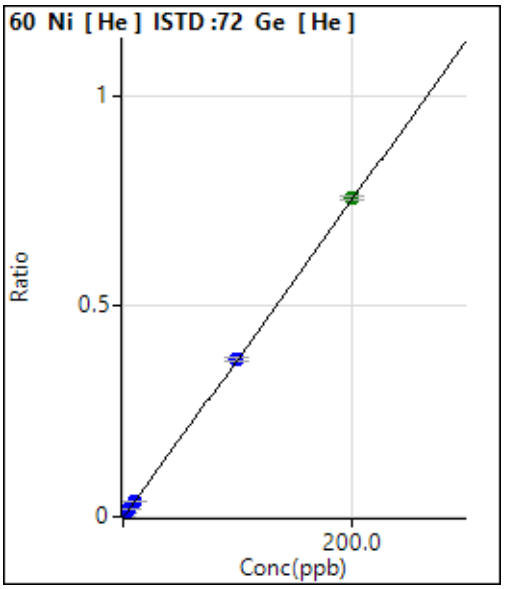
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0004	P	8.9	
2	☐	2.000	1.992	21790.93	0.0052	P	1.1	-0.4
3	☐	5.000	4.948	51275.70	0.0124	P	3.1	-1.0
4	☐	10.000	9.899	100280.86	0.0245	P	1.8	-1.0
5	☐	100.000	99.415	972410.59	0.2425	A	1.2	-0.6
6	☐	200.000	200.299	1946577.11	0.4881	A	1.5	0.1

y = 0.0024 * x + 3.9352E-004
R = 1.0000
DL = 0.04319 ppb
BEC = 0.1616 ppb

Weight: <None>
Min Conc: <None>

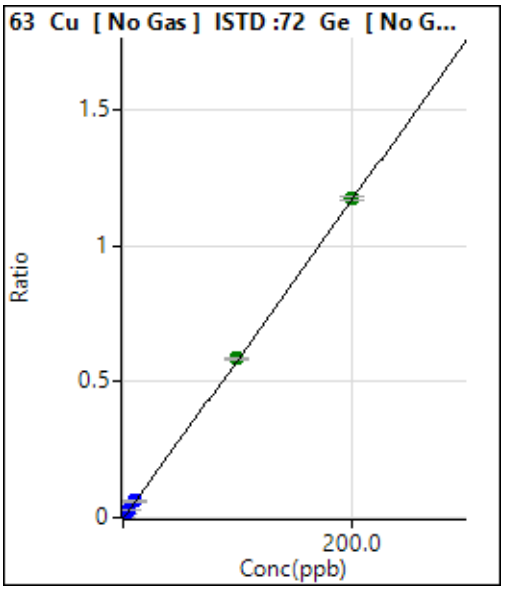


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.37	0.0006	P	6.5	
2	☐	2.000	1.925	9746.94	0.0078	P	3.5	-3.7
3	☐	5.000	4.854	23567.16	0.0189	P	0.8	-2.9
4	☐	10.000	9.962	47211.29	0.0381	P	3.0	-0.4
5	☐	100.000	99.122	454378.57	0.3743	P	2.2	-0.9
6	☐	200.000	200.445	913553.40	0.7563	A	1.0	0.2

y = 0.0038 * x + 5.5310E-004
R = 1.0000
DL = 0.02866 ppb
BEC = 0.1467 ppb

Weight: <None>
Min Conc: <None>

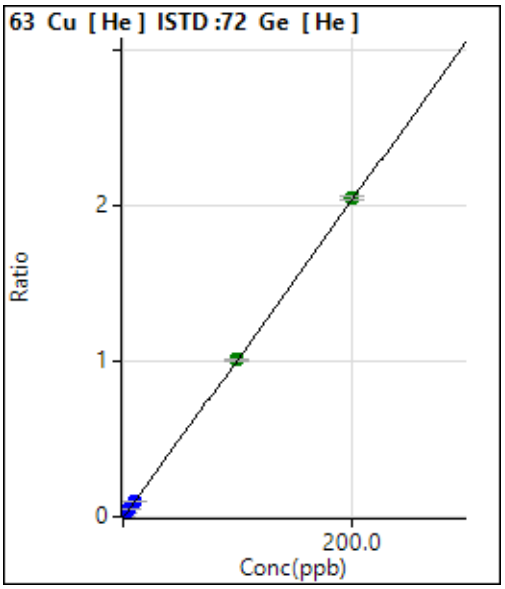
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3750.60	0.0009	P	3.8	
2	☐	2.000	2.070	54173.59	0.0130	P	2.4	3.5
3	☐	5.000	5.049	125728.37	0.0305	P	3.2	1.0
4	☐	10.000	10.143	247200.56	0.0604	P	1.6	1.4
5	☐	100.000	99.478	2343584.18	0.5844	A	1.4	-0.5
6	☐	200.000	200.252	4687473.68	1.1755	A	1.6	0.1

y = 0.0059 * x + 8.9430E-004
R = 1.0000
DL = 0.01717 ppb
BEC = 0.1525 ppb

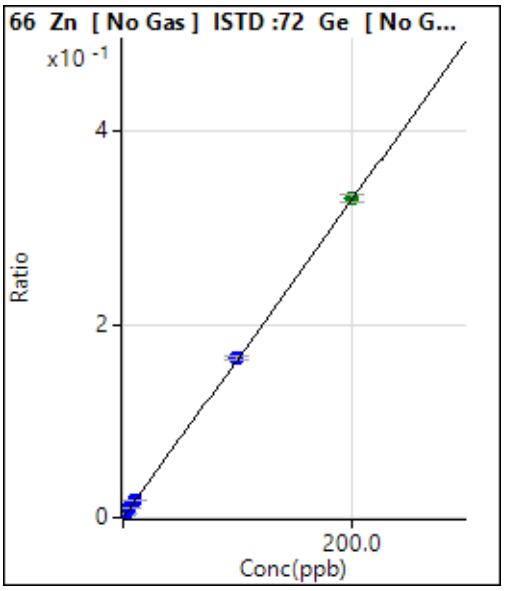
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1903.50	0.0015	P	2.9	
2	☐	2.000	1.944	26659.43	0.0214	P	3.7	-2.8
3	☐	5.000	4.868	64069.58	0.0513	P	3.3	-2.6
4	☐	10.000	9.956	127931.06	0.1033	P	1.5	-0.4
5	☐	100.000	98.686	1226524.49	1.0103	A	1.4	-1.3
6	☐	200.000	200.663	2479711.99	2.0528	A	1.7	0.3

y = 0.0102 * x + 0.0015
R = 1.0000
DL = 0.01253 ppb
BEC = 0.1464 ppb

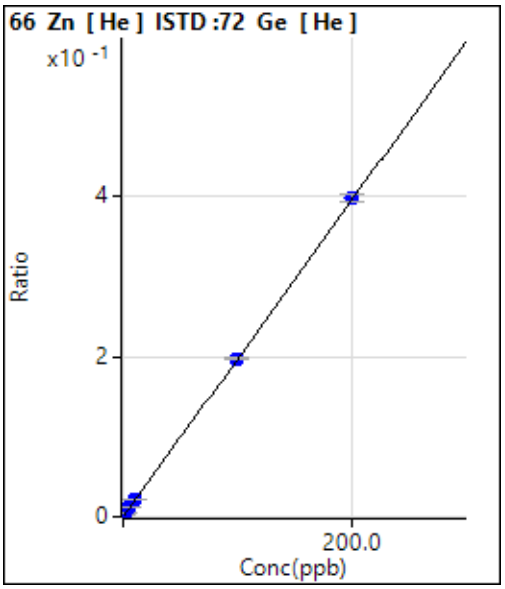
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6318.24	0.0015	P	1.4	
2	☐	2.000	1.851	18903.28	0.0045	P	3.3	-7.5
3	☐	5.000	4.831	38932.15	0.0094	P	1.6	-3.4
4	☐	10.000	9.998	73436.22	0.0179	P	3.5	0.0
5	☐	100.000	99.647	662914.18	0.1653	P	1.9	-0.4
6	☐	200.000	200.182	1318132.35	0.3306	A	2.0	0.1

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.03766 ppb
BEC = 0.9166 ppb

Weight: <None>
Min Conc: <None>

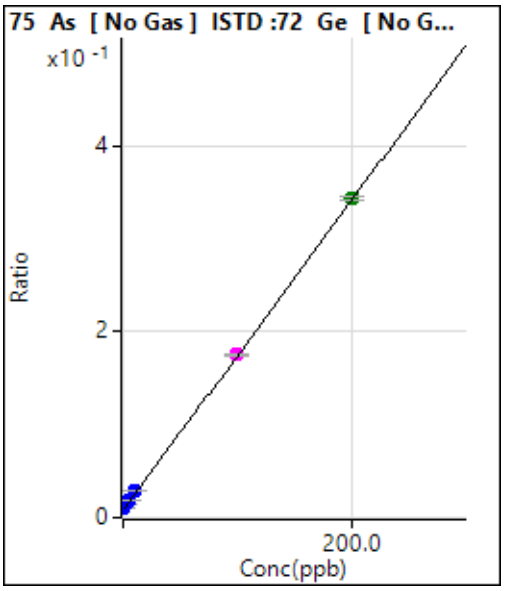


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.91	0.0019	P	5.1	
2	☐	2.000	1.672	6464.98	0.0052	P	2.5	-16.4
3	☐	5.000	4.618	13757.14	0.0110	P	1.5	-7.6
4	☐	10.000	9.856	26459.15	0.0214	P	2.1	-1.4
5	☐	100.000	99.014	239901.04	0.1976	P	1.8	-1.0
6	☐	200.000	200.513	481085.83	0.3983	P	2.2	0.3

y = 0.0020 * x + 0.0019
R = 1.0000
DL = 0.1463 ppb
BEC = 0.949 ppb

Weight: <None>
Min Conc: <None>

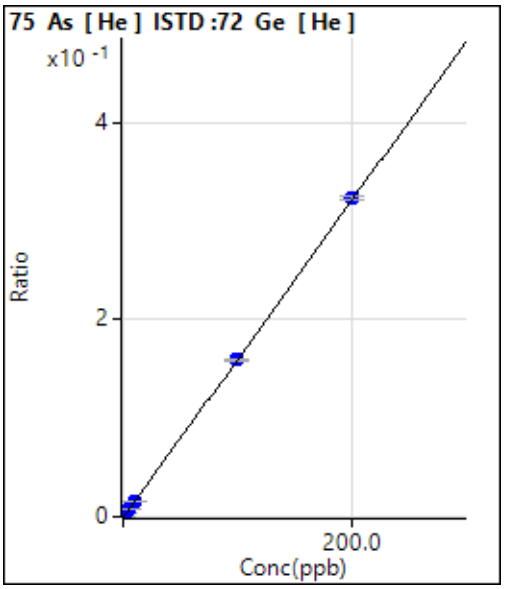
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40617.31	0.0097	P	1.4	
2	☐	2.000	2.995	61009.38	0.0147	P	1.2	49.8
3	☐	5.000	5.805	79802.28	0.0194	P	2.7	16.1
4	☐	10.000	11.197	116073.48	0.0284	P	1.4	12.0
5	☐	100.000	99.367	703303.64	0.1754	M	1.4	-0.6
6	☐	200.000	200.227	1369997.22	0.3436	A	1.7	0.1

y = 0.0017 * x + 0.0097
R = 1.0000
DL = 0.252 ppb
BEC = 5.808 ppb

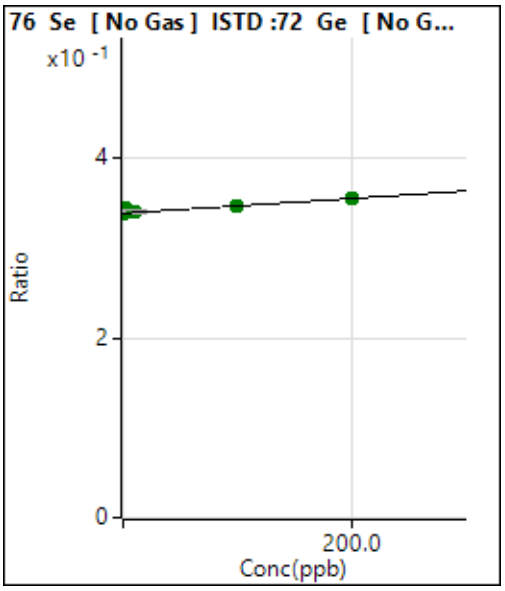
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.12	0.0003	P	8.3	
2	☐	2.000	1.898	4179.56	0.0034	P	6.1	-5.1
3	☐	5.000	4.791	10018.14	0.0080	P	3.1	-4.2
4	☐	10.000	9.707	19747.64	0.0159	P	3.5	-2.9
5	☐	100.000	98.735	193606.79	0.1595	P	1.6	-1.3
6	☐	200.000	200.653	391132.07	0.3238	P	1.5	0.3

y = 0.0016 * x + 2.9179E-004
R = 1.0000
DL = 0.04521 ppb
BEC = 0.181 ppb

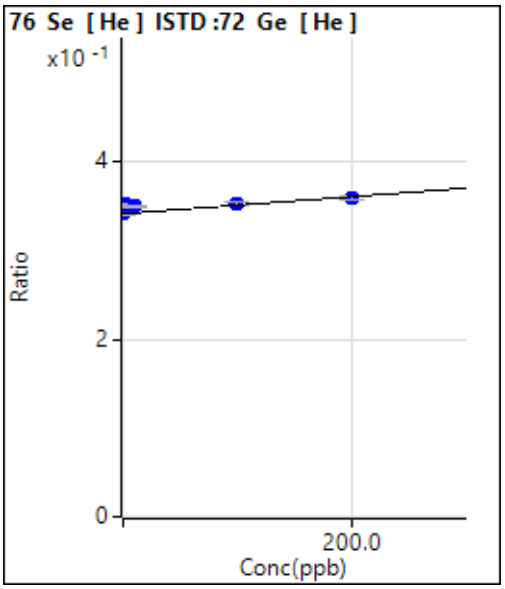
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1419884.15	0.3386	A	0.7	
2	☐	2.000	60.227	1427919.77	0.3436	A	0.8	2911.4
3	☐	5.000	28.505	1405097.79	0.3410	A	0.8	470.1
4	☐	10.000	26.996	1395120.55	0.3408	A	1.0	170.0
5	☐	100.000	94.524	1389318.06	0.3464	A	0.4	-5.5
6	☐	200.000	200.718	1416667.84	0.3553	A	0.1	0.4

y = 8.3106E-005 * x + 0.3386
R = 0.9601
DL = 84.36 ppb
BEC = 4074 ppb

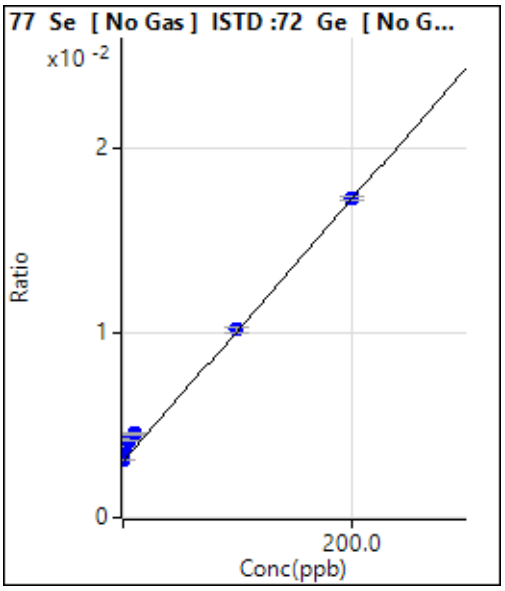
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435030.00	0.3420	P	0.4	
2	☐	2.000	109.615	439982.58	0.3527	P	0.6	5380.7
3	☐	5.000	85.565	437915.80	0.3503	P	1.2	1611.3
4	☐	10.000	83.546	433738.20	0.3501	P	0.6	735.5
5	☐	100.000	119.644	429273.79	0.3536	P	0.8	19.6
6	☐	200.000	183.411	434649.32	0.3598	P	1.2	-8.3

y = 9.7324E-005 * x + 0.3420
R = 0.7942
DL = 40.95 ppb
BEC = 3514 ppb

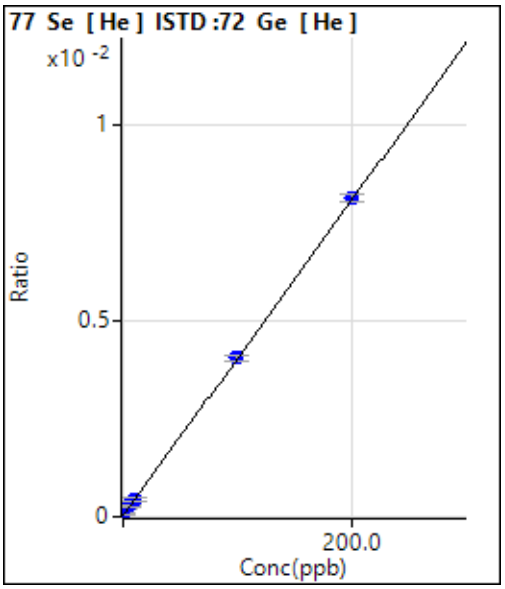
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13143.23	0.0031	P	0.5	
2	☐	2.000	10.169	16016.41	0.0039	P	1.4	408.4
3	☐	5.000	14.977	17284.56	0.0042	P	1.3	199.5
4	☐	10.000	19.879	18589.58	0.0045	P	1.5	98.8
5	☐	100.000	99.077	40694.29	0.0101	P	2.8	-0.9
6	☐	200.000	199.636	68850.06	0.0173	P	1.3	-0.2

y = 7.0788E-005 * x + 0.0031
R = 0.9986
DL = 0.7267 ppb
BEC = 44.27 ppb

Weight: <None>
Min Conc: <None>

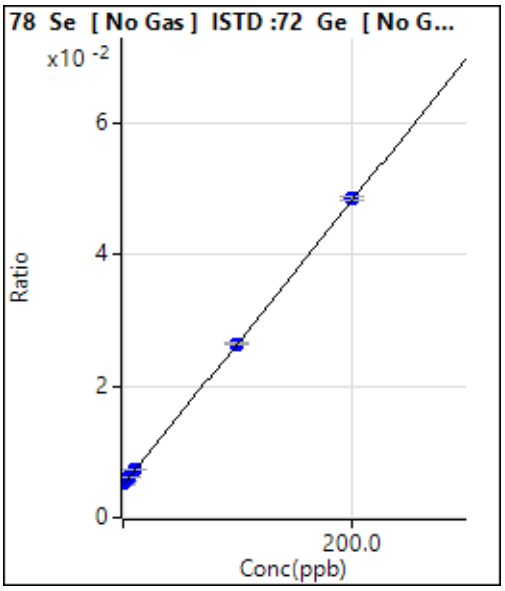


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	5.5	
2	☐	2.000	4.025	293.34	0.0002	P	24.3	101.3
3	☐	5.000	5.006	343.34	0.0003	P	5.9	0.1
4	☐	10.000	8.954	536.69	0.0004	P	15.3	-10.5
5	☐	100.000	99.038	4920.99	0.0041	P	4.2	-1.0
6	☐	200.000	200.513	9823.70	0.0081	P	2.5	0.3

y = 4.0196E-005 * x + 7.3358E-005
R = 0.9999
DL = 0.3024 ppb
BEC = 1.825 ppb

Weight: <None>
Min Conc: <None>

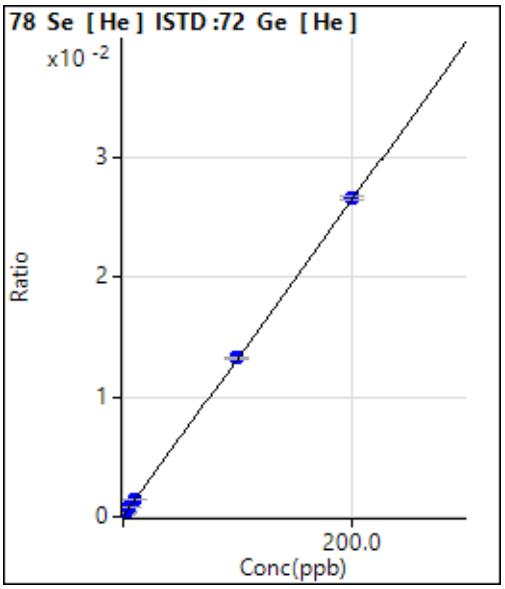
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21700.86	0.0052	P	2.7	
2	☐	2.000	1.436	22792.60	0.0055	P	2.2	-28.2
3	☐	5.000	4.676	25487.47	0.0062	P	0.7	-6.5
4	☐	10.000	9.469	29552.38	0.0072	P	0.8	-5.3
5	☐	100.000	98.475	106040.09	0.0264	P	1.5	-1.5
6	☐	200.000	200.803	193571.77	0.0485	P	1.4	0.4

y = 2.1598E-004 * x + 0.0052
R = 1.0000
DL = 1.907 ppb
BEC = 23.96 ppb

Weight: <None>
Min Conc: <None>

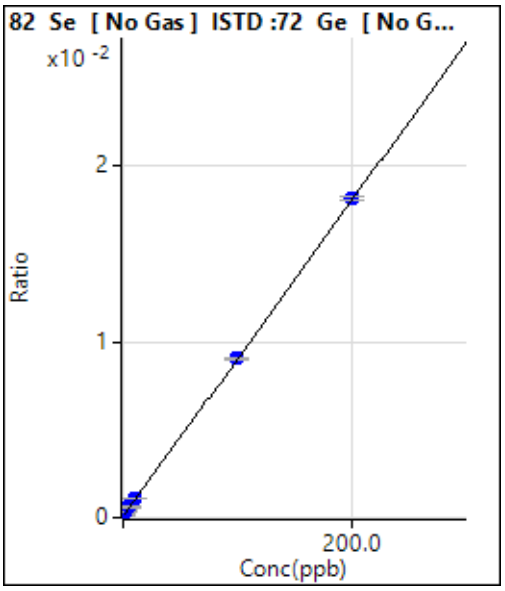


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.00	0.0002	P	13.6	
2	☐	2.000	1.860	498.01	0.0004	P	4.5	-7.0
3	☐	5.000	4.892	998.04	0.0008	P	8.8	-2.2
4	☐	10.000	9.497	1741.45	0.0014	P	3.9	-5.0
5	☐	100.000	99.104	16044.13	0.0132	P	1.5	-0.9
6	☐	200.000	200.477	32103.68	0.0266	P	1.8	0.2

y = 1.3180E-004 * x + 1.5411E-004
R = 1.0000
DL = 0.4782 ppb
BEC = 1.169 ppb

Weight: <None>
Min Conc: <None>

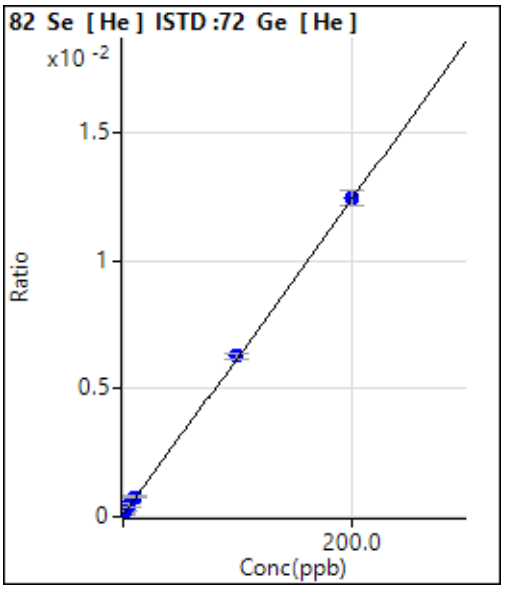
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	706.70	0.0002	P	15.2	
2	☐	2.000	2.376	1586.79	0.0004	P	8.3	18.8
3	☐	5.000	4.939	2520.28	0.0006	P	7.5	-1.2
4	☐	10.000	10.532	4557.52	0.0011	P	3.1	5.3
5	☐	100.000	98.995	36292.15	0.0090	P	0.9	-1.0
6	☐	200.000	200.474	72389.39	0.0182	P	1.4	0.2

y = 8.9713E-005 * x + 1.6852E-004
R = 1.0000
DL = 0.855 ppb
BEC = 1.878 ppb

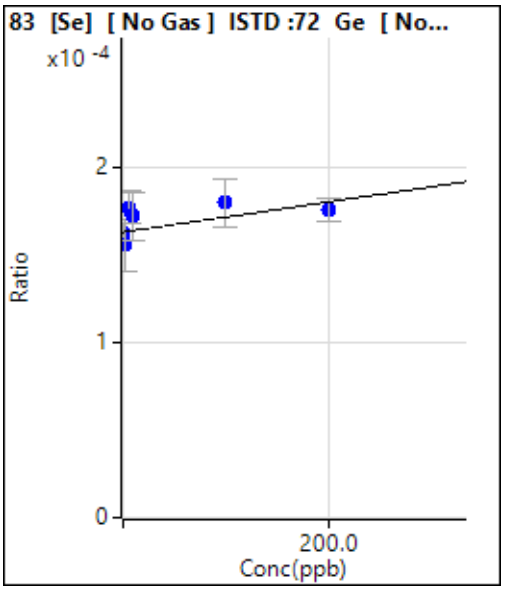
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	21.8	
2	☐	2.000	2.333	320.01	0.0003	P	4.0	16.6
3	☐	5.000	5.433	560.03	0.0004	P	20.3	8.7
4	☐	10.000	10.906	973.39	0.0008	P	4.5	9.1
5	☐	100.000	99.808	7615.64	0.0063	P	4.0	-0.2
6	☐	200.000	200.037	15048.64	0.0125	P	4.8	0.0

y = 6.1720E-005 * x + 1.1259E-004
R = 1.0000
DL = 1.191 ppb
BEC = 1.824 ppb

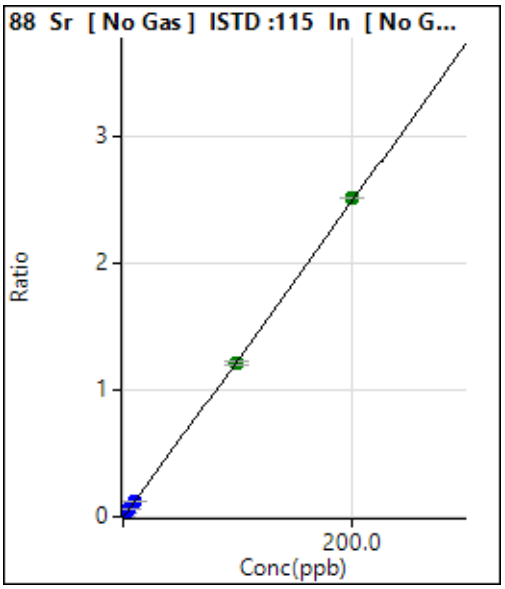
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	683.36	0.0002	P	6.7	
2	☐	2.000	-83.994	646.70	0.0002	P	18.9	-4299.7
3	☐	5.000	164.592	730.03	0.0002	P	10.2	3191.8
4	☐	10.000	102.388	703.36	0.0002	P	15.5	923.9
5	☐	100.000	192.720	720.04	0.0002	P	15.4	92.7
6	☐	200.000	145.891	700.03	0.0002	P	7.8	-27.1

y = 8.6578E-008 * x + 1.6294E-004
R = 0.5143
DL = 378.9 ppb
BEC = 1882 ppb

Weight: <None>
Min Conc: <None>

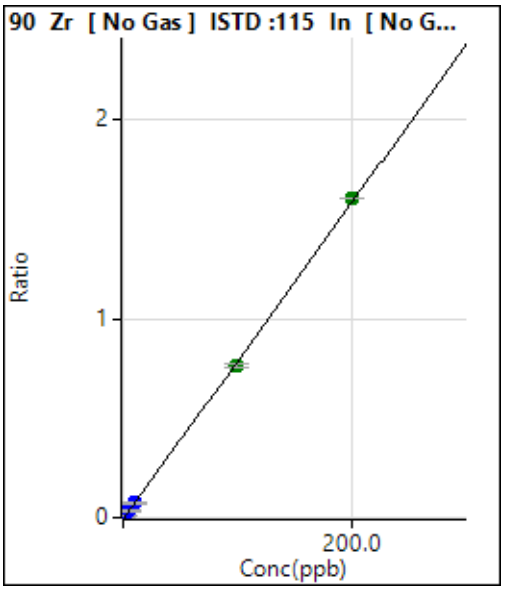


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9133.27	0.0020	P	3.8	
2	☐	2.000	1.954	121270.54	0.0263	P	0.3	-2.3
3	☐	5.000	4.794	284595.76	0.0617	P	2.3	-4.1
4	☐	10.000	9.735	559837.61	0.1233	P	2.6	-2.6
5	☐	100.000	97.117	5386439.09	1.2122	A	2.5	-2.9
6	☐	200.000	201.460	10960580.67	2.5125	A	0.2	0.7

y = 0.0125 * x + 0.0020
R = 0.9999
DL = 0.01787 ppb
BEC = 0.1582 ppb

Weight: <None>
Min Conc: <None>

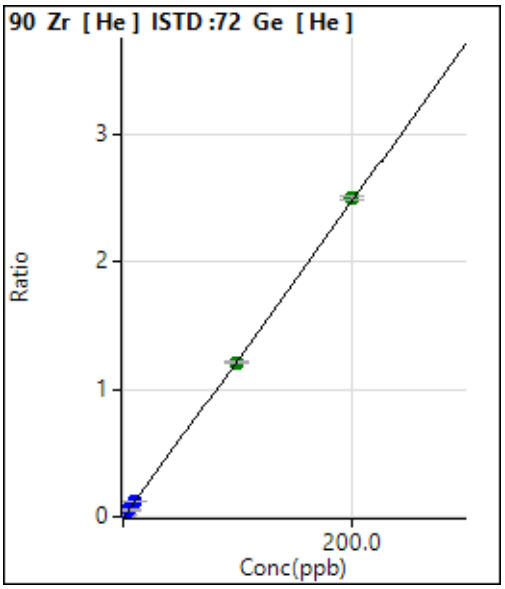
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.13	0.0003	P	11.6	
2	☐	2.000	1.606	60418.91	0.0131	P	1.5	-19.7
3	☐	5.000	4.226	156601.02	0.0340	P	3.9	-15.5
4	☐	10.000	9.139	331641.48	0.0730	P	2.0	-8.6
5	☐	100.000	96.408	3409285.05	0.7672	A	2.3	-3.6
6	☐	200.000	201.863	7006775.94	1.6061	A	0.6	0.9

y = 0.0080 * x + 3.3893E-004
R = 0.9998
DL = 0.01479 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

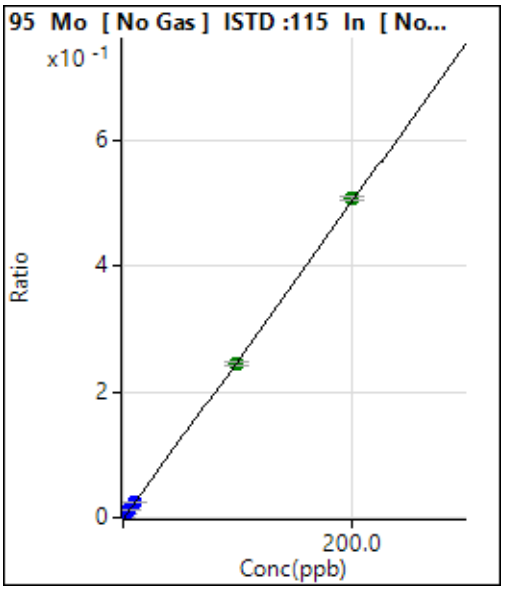


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0013	P	3.3	
2	☐	2.000	1.581	26125.56	0.0209	P	4.3	-21.0
3	☐	5.000	4.218	67146.63	0.0537	P	3.7	-15.6
4	☐	10.000	9.089	141559.93	0.1143	P	1.7	-9.1
5	☐	100.000	97.357	1470607.32	1.2114	A	1.3	-2.6
6	☐	200.000	201.391	3025304.33	2.5046	A	1.7	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.01023 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

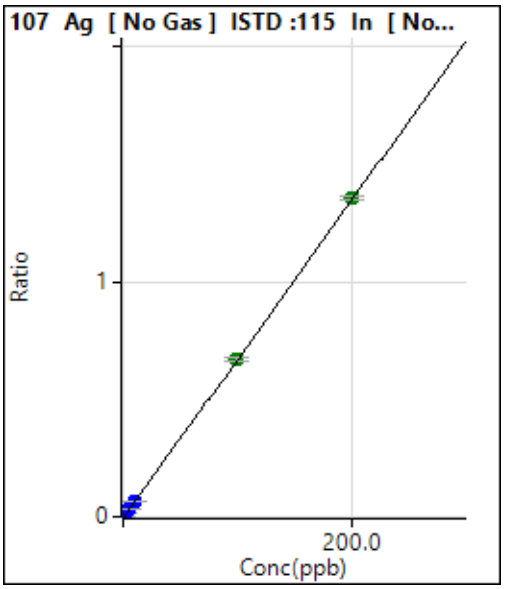
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0000	P	8.4	
2	☐	2.000	1.845	21644.48	0.0047	P	3.1	-7.8
3	☐	5.000	4.789	55882.77	0.0121	P	5.1	-4.2
4	☐	10.000	9.656	110702.46	0.0244	P	2.8	-3.4
5	☐	100.000	97.220	1088724.80	0.2450	A	2.1	-2.8
6	☐	200.000	201.414	2214248.20	0.5075	A	1.2	0.7

y = 0.0025 * x + 4.9646E-005
R = 0.9999
DL = 0.004983 ppb
BEC = 0.0197 ppb

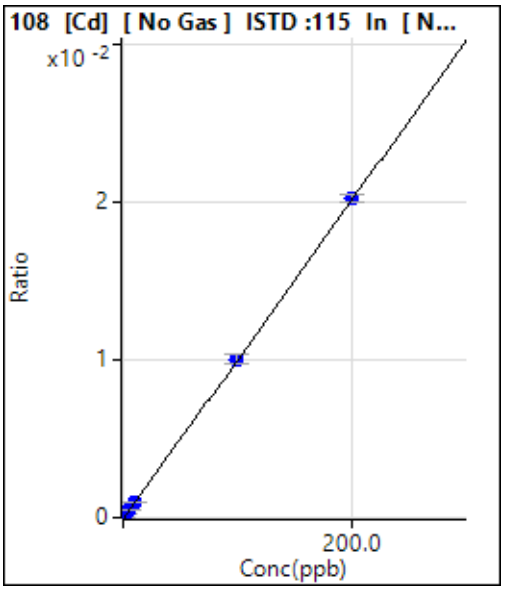
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1593.46	0.0003	P	6.7	
2	☐	2.000	2.041	65151.99	0.0141	P	2.7	2.1
3	☐	5.000	4.932	155351.91	0.0337	P	3.4	-1.4
4	☐	10.000	9.990	308231.04	0.0679	P	1.3	-0.1
5	☐	100.000	99.127	2979166.31	0.6705	A	2.5	-0.9
6	☐	200.000	200.438	5912939.70	1.3553	A	1.3	0.2

y = 0.0068 * x + 3.4395E-004
R = 1.0000
DL = 0.01028 ppb
BEC = 0.05088 ppb

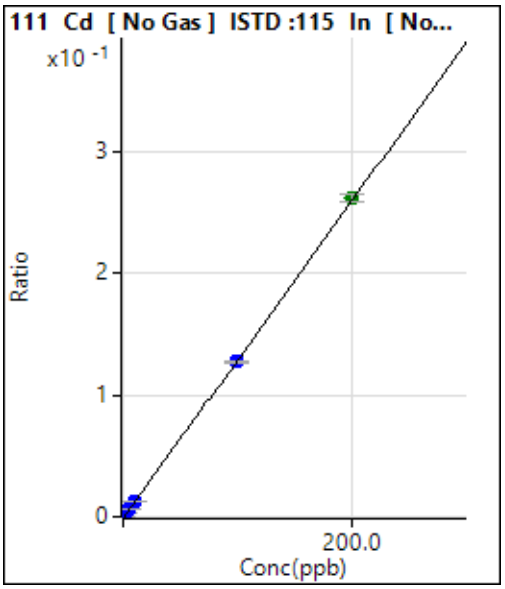
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	2.110	1000.06	0.0002	P	15.8	5.5
3	☐	5.000	4.648	2183.55	0.0005	P	14.5	-7.0
4	☐	10.000	10.087	4647.59	0.0010	P	0.5	0.9
5	☐	100.000	99.400	44665.07	0.0101	P	5.4	-0.6
6	☐	200.000	200.303	88371.65	0.0203	P	1.9	0.2

y = 1.0111E-004 * x + 3.5984E-006
R = 1.0000
DL = 0.09772 ppb
BEC = 0.03559 ppb

Weight: <None>
Min Conc: <None>

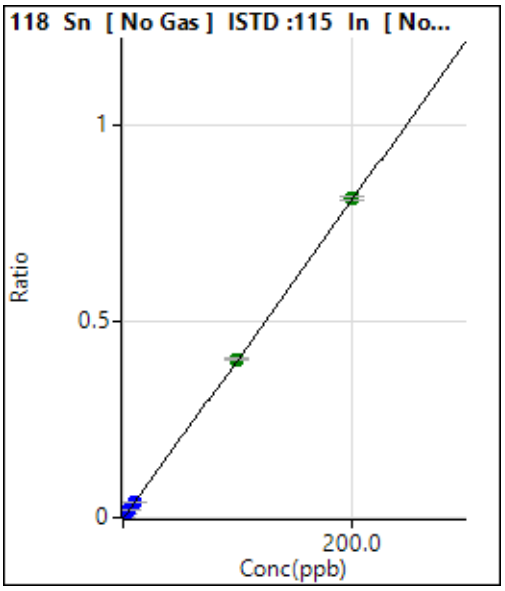


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	564.6	
2	☐	2.000	1.956	11750.03	0.0026	P	1.5	-2.2
3	☐	5.000	4.841	29111.02	0.0063	P	1.9	-3.2
4	☐	10.000	9.846	58279.74	0.0128	P	2.5	-1.5
5	☐	100.000	97.902	567131.85	0.1276	P	1.4	-2.1
6	☐	200.000	201.061	1143495.16	0.2621	A	2.0	0.5

y = 0.0013 * x + 4.5202E-007
R = 0.9999
DL = 0.005874 ppb
BEC = 0.0003468 ppb

Weight: <None>
Min Conc: <None>

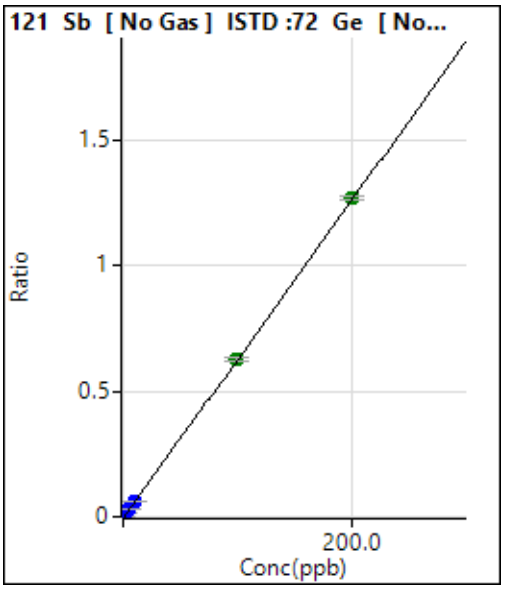
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.47	0.0011	P	2.6	
2	☐	2.000	1.991	42311.25	0.0092	P	2.2	-0.5
3	☐	5.000	4.859	95908.51	0.0208	P	2.1	-2.8
4	☐	10.000	9.797	185213.59	0.0408	P	2.2	-2.0
5	☐	100.000	99.305	1791470.91	0.4031	A	1.8	-0.7
6	☐	200.000	200.361	3543706.62	0.8123	A	1.5	0.2

y = 0.0040 * x + 0.0011
R = 1.0000
DL = 0.02168 ppb
BEC = 0.2781 ppb

Weight: <None>
Min Conc: <None>

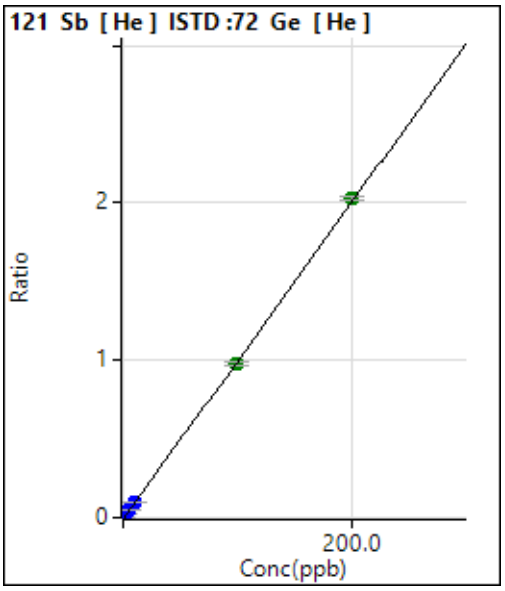


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	960.05	0.0002	P	3.8	
2	☐	2.000	1.953	52260.04	0.0126	P	1.5	-2.4
3	☐	5.000	4.934	129491.66	0.0314	P	2.0	-1.3
4	☐	10.000	9.876	256522.06	0.0627	P	2.4	-1.2
5	☐	100.000	98.962	2510060.53	0.6259	A	1.8	-1.0
6	☐	200.000	200.527	5056640.03	1.2681	A	1.4	0.3

y = 0.0063 * x + 2.2893E-004
R = 1.0000
DL = 0.004131 ppb
BEC = 0.03621 ppb

Weight: <None>
Min Conc: <None>

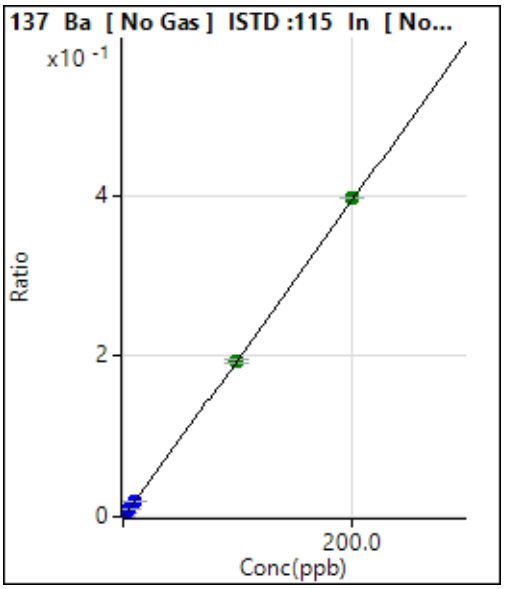
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0003	P	13.2	
2	☐	2.000	1.896	24252.50	0.0194	P	0.8	-5.2
3	☐	5.000	4.699	59564.31	0.0477	P	2.9	-6.0
4	☐	10.000	9.817	122875.85	0.0992	P	3.4	-1.8
5	☐	100.000	96.991	1186069.07	0.9770	A	1.5	-3.0
6	☐	200.000	201.522	2451598.82	2.0296	A	1.5	0.8

y = 0.0101 * x + 3.4607E-004
R = 0.9998
DL = 0.0136 ppb
BEC = 0.03437 ppb

Weight: <None>
Min Conc: <None>

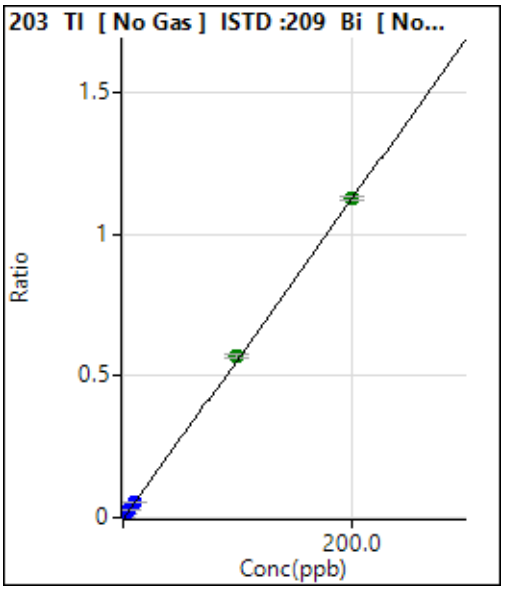


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.71	0.0002	P	15.7	
2	☐	2.000	2.080	19695.16	0.0043	P	2.9	4.0
3	☐	5.000	4.899	45395.57	0.0098	P	3.0	-2.0
4	☐	10.000	9.819	88836.22	0.0196	P	1.5	-1.8
5	☐	100.000	98.116	862010.17	0.1940	A	2.8	-1.9
6	☐	200.000	200.953	1732609.76	0.3972	A	0.4	0.5

y = 0.0020 * x + 1.6551E-004
R = 0.9999
DL = 0.03945 ppb
BEC = 0.08378 ppb

Weight: <None>
Min Conc: <None>

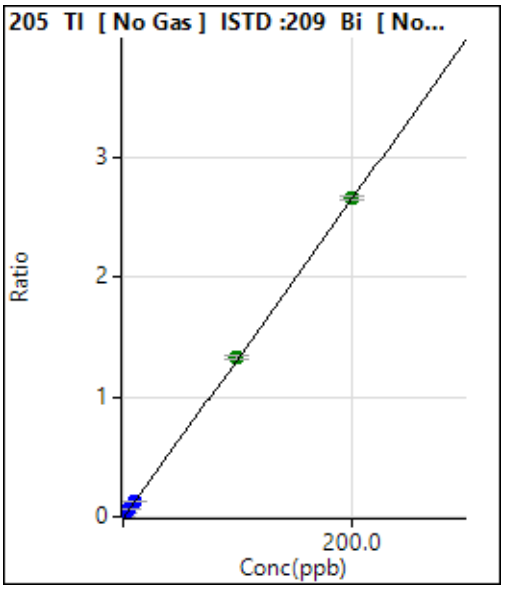
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	18.8	
2	☐	2.000	1.969	43361.84	0.0112	P	2.9	-1.6
3	☐	5.000	4.960	109414.55	0.0281	P	1.6	-0.8
4	☐	10.000	9.775	212416.36	0.0552	P	0.8	-2.3
5	☐	100.000	100.789	2138360.59	0.5686	A	1.8	0.8
6	☐	200.000	199.618	4236776.60	1.1261	A	1.3	-0.2

y = 0.0056 * x + 7.6943E-005
R = 1.0000
DL = 0.007703 ppb
BEC = 0.01364 ppb

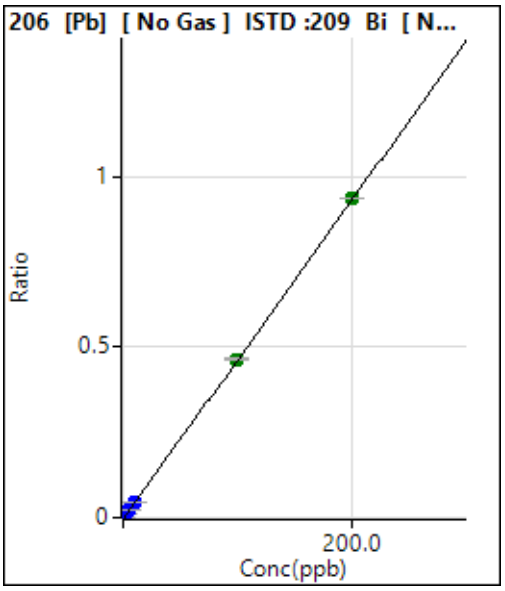
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	13.2	
2	☐	2.000	1.961	102032.62	0.0263	P	2.9	-2.0
3	☐	5.000	4.883	254579.84	0.0653	P	2.6	-2.3
4	☐	10.000	9.735	500079.34	0.1300	P	2.0	-2.7
5	☐	100.000	100.154	5023606.18	1.3358	A	1.7	0.2
6	☐	200.000	199.940	10032632.35	2.6666	A	1.3	0.0

y = 0.0133 * x + 1.6397E-004
R = 1.0000
DL = 0.004868 ppb
BEC = 0.01229 ppb

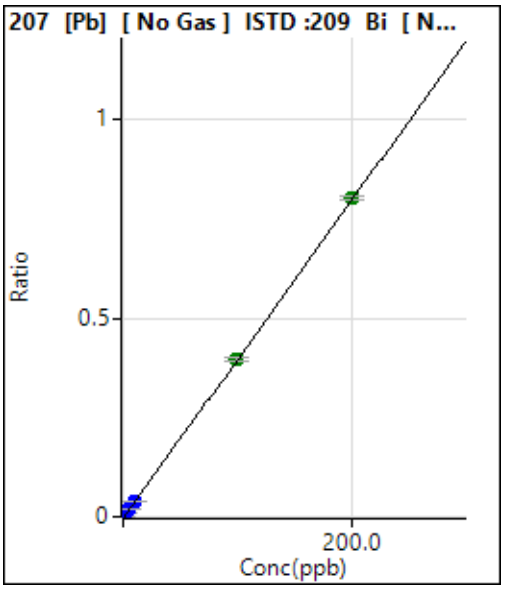
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0002	P	22.1	
2	☐	2.000	2.006	37028.24	0.0095	P	2.0	0.3
3	☐	5.000	4.839	88896.72	0.0228	P	2.7	-3.2
4	☐	10.000	9.947	179565.38	0.0467	P	2.6	-0.5
5	☐	100.000	99.321	1746801.59	0.4645	A	1.8	-0.7
6	☐	200.000	200.346	3524680.26	0.9368	A	0.3	0.2

y = 0.0047 * x + 1.7110E-004
R = 1.0000
DL = 0.02421 ppb
BEC = 0.0366 ppb

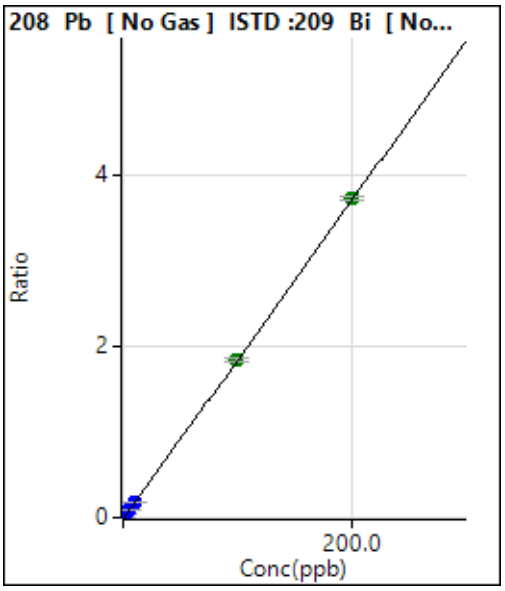
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	21.4	
2	☐	2.000	1.956	31018.76	0.0080	P	3.1	-2.2
3	☐	5.000	4.865	76643.76	0.0197	P	2.1	-2.7
4	☐	10.000	9.817	151985.68	0.0395	P	2.3	-1.8
5	☐	100.000	99.075	1493789.25	0.3972	A	2.1	-0.9
6	☐	200.000	200.475	3023524.75	0.8036	A	1.4	0.2

y = 0.0040 * x + 1.6049E-004
R = 1.0000
DL = 0.02568 ppb
BEC = 0.04005 ppb

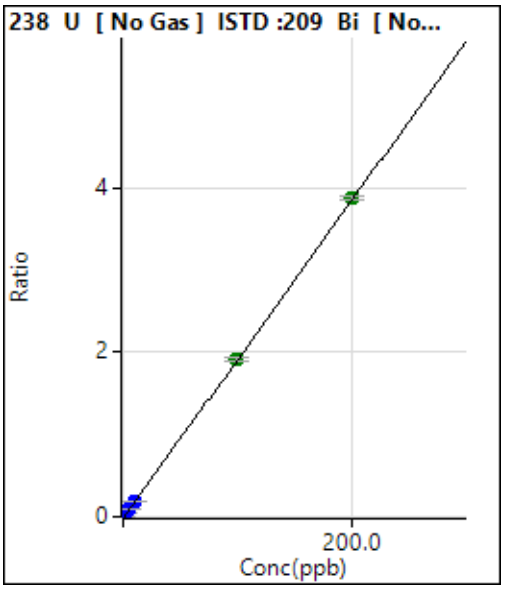
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2676.84	0.0007	P	2.4	
2	☐	2.000	1.978	145562.64	0.0375	P	2.3	-1.1
3	☐	5.000	4.869	356419.41	0.0914	P	2.5	-2.6
4	☐	10.000	9.882	710873.52	0.1848	P	2.4	-1.2
5	☐	100.000	99.153	6948438.60	1.8477	A	1.7	-0.8
6	☐	200.000	200.433	14050124.48	3.7343	A	1.4	0.2

y = 0.0186 * x + 6.8618E-004
R = 1.0000
DL = 0.002623 ppb
BEC = 0.03684 ppb

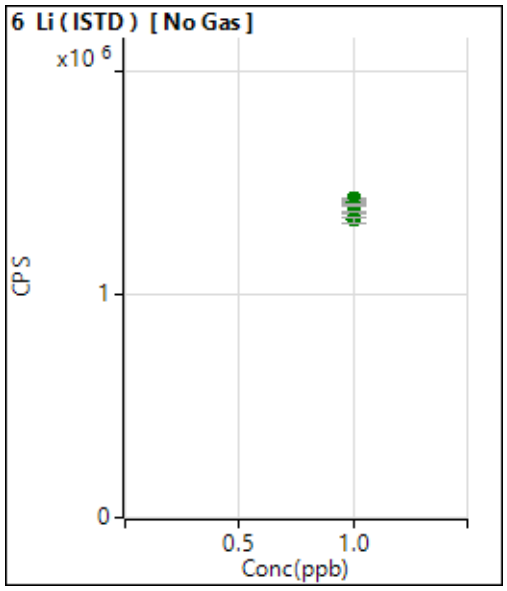
Weight: <None>
Min Conc: <None>



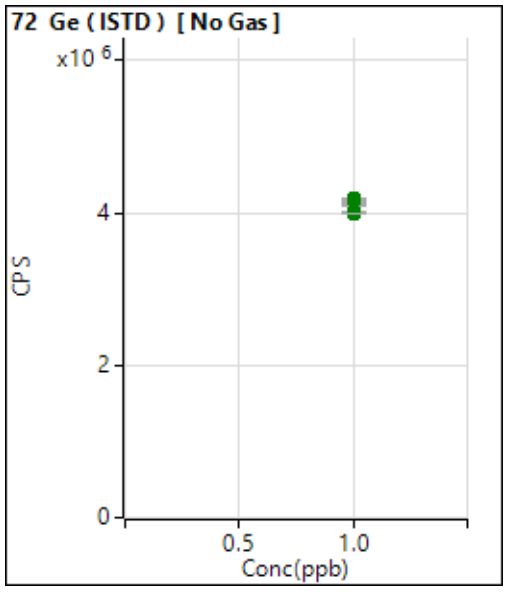
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.38	0.0002	P	7.6	
2	☐	2.000	1.869	140917.91	0.0363	P	2.8	-6.5
3	☐	5.000	4.667	352601.88	0.0904	P	1.2	-6.7
4	☐	10.000	9.470	705100.79	0.1833	P	2.2	-5.3
5	☐	100.000	98.856	7186615.73	1.9110	A	1.8	-1.1
6	☐	200.000	200.608	14589493.11	3.8778	A	0.9	0.3

y = 0.0193 * x + 2.0587E-004
R = 1.0000
DL = 0.002414 ppb
BEC = 0.01065 ppb

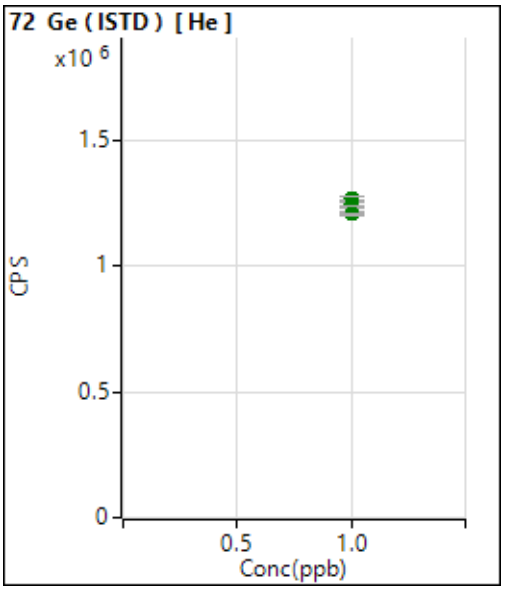
Weight: <None>
Min Conc: <None>



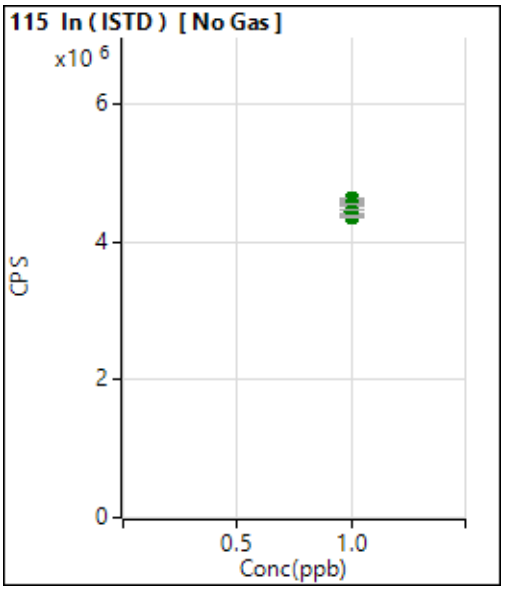
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1429276.11		A	0.6	
2	☐	1.000		1417965.71		A	1.2	
3	☐	1.000		1413014.56		A	0.9	
4	☐	1.000		1396686.32		A	0.5	
5	☐	1.000		1364042.84		A	0.2	
6	☐	1.000		1331983.50		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4193657.54		A	0.2	
2	☐	1.000		4156025.36		A	0.5	
3	☐	1.000		4121121.09		A	0.4	
4	☐	1.000		4093381.09		A	0.2	
5	☐	1.000		4010285.77		A	0.4	
6	☐	1.000		3987672.86		A	0.2	

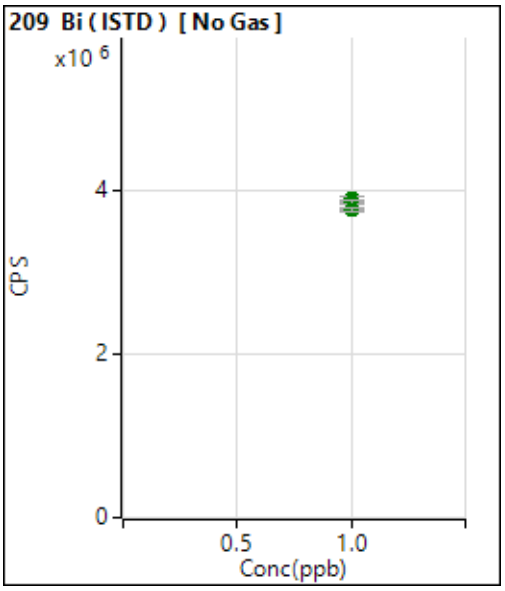


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1272004.36		A	0.8	
2	☐	1.000		1247560.27		A	0.9	
3	☐	1.000		1250040.34		A	1.1	
4	☐	1.000		1238824.64		A	0.6	
5	☐	1.000		1213889.20		A	0.7	
6	☐	1.000		1207897.95		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4632313.39		A	0.3	
2	☐	1.000		4606792.99		A	0.8	
3	☐	1.000		4612400.23		A	0.5	
4	☐	1.000		4540878.92		A	0.4	
5	☐	1.000		4444187.88		A	1.0	
6	☐	1.000		4362432.83		A	0.7	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3900842.23		A	0.8	
2	☐	1.000		3877954.01		A	0.3	
3	☐	1.000		3899647.44		A	1.8	
4	☐	1.000		3846870.04		A	1.2	
5	☐	1.000		3760775.36		A	0.4	
6	☐	1.000		3762470.67		A	1.0	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:29:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	80609	0.00
Be	9	1	No Gas	45	65.33
V	51	2	He	3735	0.10
Cr	52	2	He	11488	0.05
Fe	56	2	He	27424	0.01
Se	78	2	He	196	6.89
As	75	2	He	371	2.20
Ca	44	2	He	3214	0.16
Na	23	2	He	293768	0.00
Mg	24	2	He	1570	0.51
K	39	2	He	147084	0.00
Mn	55	2	He	1010	1.13
Co	59	2	He	140	8.84
Ni	60	2	He	703	0.84
Cu	63	2	He	1903	0.19
Zn	66	2	He	2387	0.25
Al	27	2	He	5505	0.09
B	11	1	No Gas	21622	0.00
Al	27	1	No Gas	199746	0.00
Si	28	1	No Gas	762259	0.00
Ag	107	1	No Gas	1593	0.44
Cd	111	1	No Gas	2	26356.89
Sr	88	1	No Gas	9133	0.04
Mo	95	1	No Gas	230	3.78
Sn	118	1	No Gas	5214	0.04
Sb	121	1	No Gas	960	0.39
Ba	137	1	No Gas	767	2.05
Tl	205	1	No Gas	640	2.17
Tl	203	1	No Gas	300	6.19
Pb	208	1	No Gas	2677	0.11
U	238	1	No Gas	803	1.03
Ca	43	2	He	100	40.00
Sb	121	2	He	440	2.88
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	3751	0.11

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1429276	0.59
Ge	72	2	He	1272004	0.76
Ge	72	1	No Gas	4193658	0.23
In	115	1	No Gas	4632313	0.30

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3900842	0.78

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:31:53-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10536	0.02
V	51	2	He	23222	0.01
Cr	52	2	He	33644	0.00
Fe	56	2	He	2117622	0.00
Se	78	2	He	498	0.82
As	75	2	He	4180	0.13
Ca	44	2	He	16106	0.02
Na	23	2	He	599580	0.00
Mg	24	2	He	198415	0.00
K	39	2	He	375395	0.00
Mn	55	2	He	17438	0.03
Co	59	2	He	35687	0.01
Ni	60	2	He	9747	0.04
Cu	63	2	He	26659	0.01
Zn	66	2	He	6465	0.05
Al	27	2	He	8456	0.03
B	11	1	No Gas	54690	0.00
Al	27	1	No Gas	309294	0.00
Si	28	1	No Gas	855731	0.00
Ag	107	1	No Gas	65152	0.00
Cd	111	1	No Gas	11750	0.02
Sr	88	1	No Gas	121271	0.00
Mo	95	1	No Gas	21644	0.02
Sn	118	1	No Gas	42311	0.01
Sb	121	1	No Gas	52260	0.00
Ba	137	1	No Gas	19695	0.01
Tl	205	1	No Gas	102033	0.00
Tl	203	1	No Gas	43362	0.01
Pb	208	1	No Gas	145563	0.00
U	238	1	No Gas	140918	0.00
Ca	43	2	He	920	1.14
Sb	121	2	He	24253	0.00
Cu	63	1	No Gas	54174	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1417966	1.16	1429276	99.21	70	120	
Ge	72	2	He	1247560	0.91	1272004	98.08	70	120	
Ge	72	1	No Gas	4156025	0.46	4193658	99.10	70	120	

Calibration Standard Report

In	115	1	No Gas	4606793	0.84	4632313	99.45	70	120	
Bi	209	1	No Gas	3877954	0.29	3900842	99.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:34:33-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	27189	0.02
V	51	2	He	52840	0.00
Cr	52	2	He	67820	0.00
Fe	56	2	He	5272042	0.00
Se	78	2	He	998	0.77
As	75	2	He	10018	0.02
Ca	44	2	He	34005	0.01
Na	23	2	He	1063923	0.00
Mg	24	2	He	492753	0.00
K	39	2	He	719844	0.00
Mn	55	2	He	42001	0.01
Co	59	2	He	88745	0.00
Ni	60	2	He	23567	0.00
Cu	63	2	He	64070	0.00
Zn	66	2	He	13757	0.01
Al	27	2	He	9940	0.04
B	11	1	No Gas	102913	0.00
Al	27	1	No Gas	384927	0.00
Si	28	1	No Gas	996524	0.00
Ag	107	1	No Gas	155352	0.00
Cd	111	1	No Gas	29111	0.01
Sr	88	1	No Gas	284596	0.00
Mo	95	1	No Gas	55883	0.01
Sn	118	1	No Gas	95909	0.00
Sb	121	1	No Gas	129492	0.00
Ba	137	1	No Gas	45396	0.01
Tl	205	1	No Gas	254580	0.00
Tl	203	1	No Gas	109415	0.00
Pb	208	1	No Gas	356419	0.00
U	238	1	No Gas	352602	0.00
Ca	43	2	He	1877	0.13
Sb	121	2	He	59564	0.00
Cu	63	1	No Gas	125728	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1413015	0.92	1429276	98.86	70	120	
Ge	72	2	He	1250040	1.11	1272004	98.27	70	120	
Ge	72	1	No Gas	4121121	0.42	4193658	98.27	70	120	

Calibration Standard Report

In	115	1	No Gas	4612400	0.45	4632313	99.57	70	120	
Bi	209	1	No Gas	3899647	1.75	3900842	99.97	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:37:14-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	53544	0.01
V	51	2	He	102838	0.00
Cr	52	2	He	124076	0.00
Fe	56	2	He	10770542	0.00
Se	78	2	He	1741	0.20
As	75	2	He	19748	0.01
Ca	44	2	He	65226	0.00
Na	23	2	He	1902533	0.00
Mg	24	2	He	1011831	0.00
K	39	2	He	1323559	0.00
Mn	55	2	He	84981	0.00
Co	59	2	He	181616	0.00
Ni	60	2	He	47211	0.00
Cu	63	2	He	127931	0.00
Zn	66	2	He	26459	0.01
Al	27	2	He	13867	0.00
B	11	1	No Gas	182919	0.00
Al	27	1	No Gas	530705	0.00
Si	28	1	No Gas	1233004	0.00
Ag	107	1	No Gas	308231	0.00
Cd	111	1	No Gas	58280	0.00
Sr	88	1	No Gas	559838	0.00
Mo	95	1	No Gas	110702	0.00
Sn	118	1	No Gas	185214	0.00
Sb	121	1	No Gas	256522	0.00
Ba	137	1	No Gas	88836	0.00
Tl	205	1	No Gas	500079	0.00
Tl	203	1	No Gas	212416	0.00
Pb	208	1	No Gas	710874	0.00
U	238	1	No Gas	705101	0.00
Ca	43	2	He	3964	0.06
Sb	121	2	He	122876	0.00
Cu	63	1	No Gas	247201	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1396686	0.51	1429276	97.72	70	120	
Ge	72	2	He	1238825	0.63	1272004	97.39	70	120	
Ge	72	1	No Gas	4093381	0.24	4193658	97.61	70	120	

Calibration Standard Report

In	115	1	No Gas	4540879	0.43	4632313	98.03	70	120	
Bi	209	1	No Gas	3846870	1.23	3900842	98.62	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:39:53-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	511367	0.00
V	51	2	He	972970	0.00
Cr	52	2	He	1102025	0.00
Fe	56	2	He	104740625	0.00
Se	78	2	He	16044	0.01
As	75	2	He	193607	0.00
Ca	44	2	He	613747	0.00
Na	23	2	He	16300522	0.00
Mg	24	2	He	9953435	0.00
K	39	2	He	11781614	0.00
Mn	55	2	He	828550	0.00
Co	59	2	He	1752746	0.00
Ni	60	2	He	454379	0.00
Cu	63	2	He	1226524	0.00
Zn	66	2	He	239901	0.00
Al	27	2	He	71713	0.00
B	11	1	No Gas	1632270	0.00
Al	27	1	No Gas	2665272	0.00
Si	28	1	No Gas	5657540	0.00
Ag	107	1	No Gas	2979166	0.00
Cd	111	1	No Gas	567132	0.00
Sr	88	1	No Gas	5386439	0.00
Mo	95	1	No Gas	1088725	0.00
Sn	118	1	No Gas	1791471	0.00
Sb	121	1	No Gas	2510061	0.00
Ba	137	1	No Gas	862010	0.00
Tl	205	1	No Gas	5023606	0.00
Tl	203	1	No Gas	2138361	0.00
Pb	208	1	No Gas	6948439	0.00
U	238	1	No Gas	7186616	0.00
Ca	43	2	He	35907	0.01
Sb	121	2	He	1186069	0.00
Cu	63	1	No Gas	2343584	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1364043	0.23	1429276	95.44	70	120	
Ge	72	2	He	1213889	0.65	1272004	95.43	70	120	
Ge	72	1	No Gas	4010286	0.40	4193658	95.63	70	120	

Calibration Standard Report

In	115	1	No Gas	4444188	0.99	4632313	95.94	70	120	
Bi	209	1	No Gas	3760775	0.39	3900842	96.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:42:34-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1080147	0.00
V	51	2	He	2001200	0.00
Cr	52	2	He	2243865	0.00
Fe	56	2	He	214143177	0.00
Se	78	2	He	32104	0.01
As	75	2	He	391132	0.00
Ca	44	2	He	1260153	0.00
Na	23	2	He	32693224	0.00
Mg	24	2	He	20130258	0.00
K	39	2	He	23650085	0.00
Mn	55	2	He	1683483	0.00
Co	59	2	He	3538650	0.00
Ni	60	2	He	913553	0.00
Cu	63	2	He	2479712	0.00
Zn	66	2	He	481086	0.00
Al	27	2	He	137434	0.00
B	11	1	No Gas	3317100	0.00
Al	27	1	No Gas	5111844	0.00
Si	28	1	No Gas	10710766	0.00
Ag	107	1	No Gas	5912940	0.00
Cd	111	1	No Gas	1143495	0.00
Sr	88	1	No Gas	10960581	0.00
Mo	95	1	No Gas	2214248	0.00
Sn	118	1	No Gas	3543707	0.00
Sb	121	1	No Gas	5056640	0.00
Ba	137	1	No Gas	1732610	0.00
Tl	205	1	No Gas	10032632	0.00
Tl	203	1	No Gas	4236777	0.00
Pb	208	1	No Gas	14050124	0.00
U	238	1	No Gas	14589493	0.00
Ca	43	2	He	73517	0.00
Sb	121	2	He	2451599	0.00
Cu	63	1	No Gas	4687474	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1331983	1.66	1429276	93.19	70	120	
Ge	72	2	He	1207898	0.33	1272004	94.96	70	120	
Ge	72	1	No Gas	3987673	0.22	4193658	95.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4362433	0.72	4632313	94.17	70	120	
Bi	209	1	No Gas	3762471	0.96	3900842	96.45	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:56:14-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	97.869	1.292	2032420	1.09	100	97.9	90	110	
Be	9	1	No Gas	107.743	2.402	561923	1.51	100	107.7	90	110	
V	51	2	He	102.244	0.814	1023701	0.76	100	102.2	90	110	
Cr	52	2	He	102.864	1.008	1159788	1.27	100	102.9	90	110	
Fe	56	2	He	9926.072	0.559	106345138	1.37	10000	99.3	90	110	
Se	78	2	He	102.650	1.806	16629	2.91	100	102.6	90	110	
As	75	2	He	102.324	0.712	200817	1.45	100	102.3	90	110	
Ca	44	2	He	9948.603	1.154	627919	2.27	10000	99.5	90	110	
Na	23	2	He	9896.571	1.361	16361064	1.95	10000	99.0	90	110	
Mg	24	2	He	9989.209	1.451	10081763	2.10	10000	99.9	90	110	
K	39	2	He	10015.284	1.490	11949136	2.38	10000	100.2	90	110	
Mn	55	2	He	103.367	1.343	871873	1.02	100	103.4	90	110	
Co	59	2	He	103.280	0.677	1832838	0.47	100	103.3	90	110	
Ni	60	2	He	103.030	0.621	472663	0.55	100	103.0	90	110	
Cu	63	2	He	102.358	0.833	1273193	0.30	100	102.4	90	110	
Zn	66	2	He	102.415	0.467	248281	0.70	100	102.4	90	110	
Al	27	2	He	103.625	2.477	74236	3.36	100	103.6	90	110	
B	11	1	No Gas	480.068	2.691	1598379	1.82	500	96.0	90	110	
Al	27	1	No Gas	104.357	0.229	2760534	1.67	100	104.4	90	110	
Si	28	1	No Gas	504.141	0.559	5739898	1.57	500	100.8	90	110	
Ag	107	1	No Gas	100.902	1.822	2986895	1.35	100	100.9	90	110	
Cd	111	1	No Gas	101.463	1.396	578888	0.89	100	101.5	90	110	
Sr	88	1	No Gas	100.634	1.337	5497251	0.80	100	100.6	90	110	
Mo	95	1	No Gas	98.488	2.224	1086300	1.72	100	98.5	90	110	
Sn	118	1	No Gas	100.403	1.184	1783958	0.79	100	100.4	90	110	
Sb	121	1	No Gas	102.144	0.733	2576159	1.70	100	102.1	90	110	
Ba	137	1	No Gas	101.543	1.322	878741	1.23	100	101.5	90	110	
Tl	205	1	No Gas	102.136	1.817	5135920	1.16	100	102.1	90	110	
Tl	203	1	No Gas	103.079	2.570	2192275	1.58	100	103.1	90	110	
Pb	208	1	No Gas	101.812	1.148	7153631	1.86	100	101.8	90	110	
U	238	1	No Gas	96.112	1.624	7005484	1.97	100	96.1	90	110	
Ca	43	2	He	9990.857	2.042	36782	3.18	10000	99.9	90	110	
Sb	121	2	He	101.204	1.184	1238684	1.42	100	101.2	90	110	
Ti	47	2	He	99.981	1.816	37217	1.54	100	100.0	90	110	
Cu	63	1	No Gas	104.960	1.273	2458866	2.83	100	105.0	90	110	
Se	82	1	No Gas	104.404	1.286	38020	1.73	100	104.4	90	110	
Zr	90	1	No Gas	75.950	1.713	2645714	1.18	100	75.9	90	110	ICV Main CR1 Failed
Zr	90	2	He	75.970	1.847	1148959	2.02	100	76.0	90	1100	ICV Main CR1 Failed

QC ISTD Table

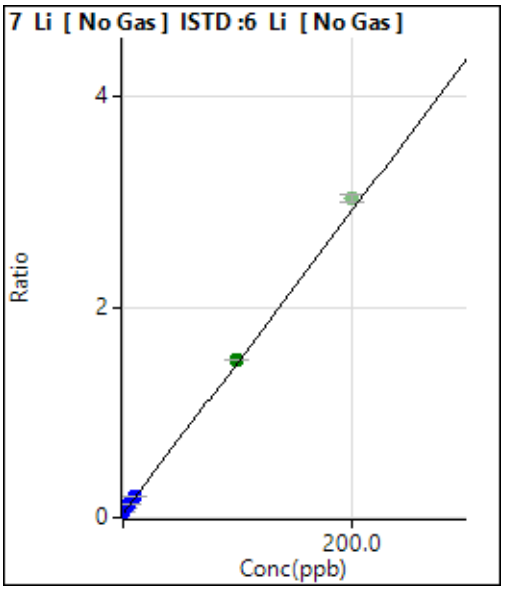
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1391018	1.05	1429276	97.32	70	120	
Ge	72	2	He	1215084	1.14	1272004	95.53	70	120	
Ge	72	1	No Gas	3987598	1.58	4193658	95.09	70	120	
In	115	1	No Gas	4376931	0.54	4632313	94.49	70	120	
Bi	209	1	No Gas	3770555	1.40	3900842	96.66	70	120	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/29/2024 10:29:10 AM
2	011CALS.d	2/10/200	5/29/2024 10:31:53 AM
3	012CALS.d	5/25/500	5/29/2024 10:34:33 AM
4	013CALS.d	10/50/100	5/29/2024 10:37:14 AM
5	014CALS.d	100/500/10K	5/29/2024 10:39:53 AM
6	015CALS.d	200/1000/20K	5/29/2024 10:42:34 AM

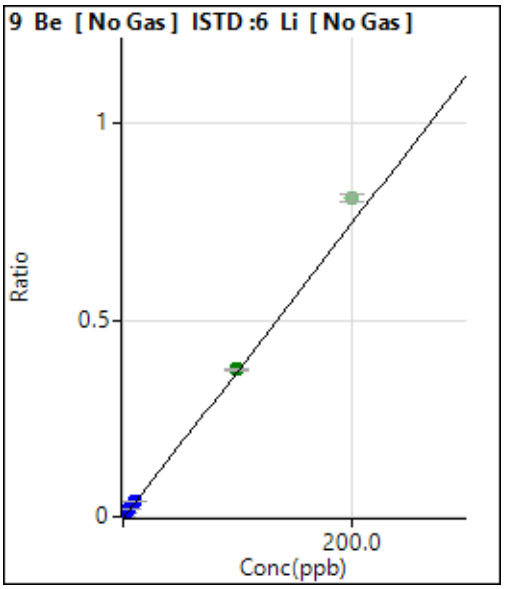
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80608.82	0.0564	P	0.6	
2	☐	2.000	1.915	118924.25	0.0839	P	1.8	-4.3
3	☐	5.000	4.805	177155.72	0.1254	P	1.1	-3.9
4	☐	10.000	9.859	276433.86	0.1979	P	1.8	-1.4
5	☐	100.000	100.026	2035333.98	1.4921	A	0.3	0.0
6	☑	200.000		4040253.07	3.0340	A	2.2	

y = 0.0144 * x + 0.0564
R = 1.0000
DL = 0.0661 ppb
BEC = 3.929 ppb

Weight: <None>
Min Conc: <None>

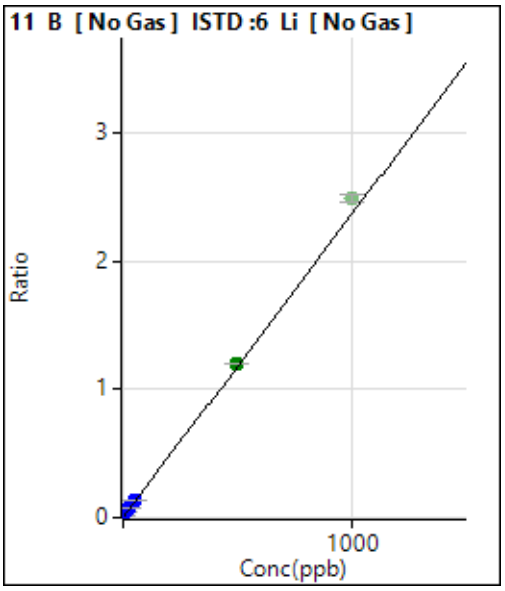


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	29.8	
2	☐	2.000	1.973	10535.64	0.0074	P	2.5	-1.3
3	☐	5.000	5.123	27189.46	0.0192	P	4.0	2.5
4	☐	10.000	10.215	53544.03	0.0383	P	2.3	2.1
5	☐	100.000	99.973	511366.74	0.3749	A	1.6	0.0
6	☑	200.000		1080146.81	0.8112	A	2.9	

y = 0.0037 * x + 3.1507E-005
R = 1.0000
DL = 0.007517 ppb
BEC = 0.008403 ppb

Weight: <None>
Min Conc: <None>

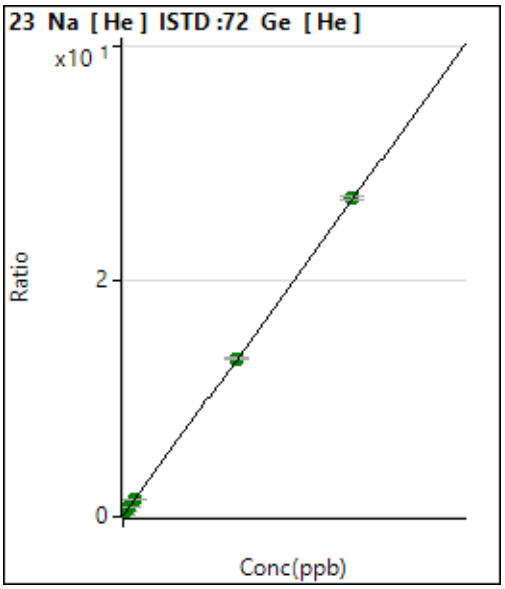
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21621.56	0.0151	P	0.6	
2	☐	10.000	9.925	54689.72	0.0386	P	2.4	-0.7
3	☐	25.000	24.428	102913.21	0.0728	P	1.8	-2.3
4	☐	50.000	49.030	182918.51	0.1310	P	1.8	-1.9
5	☐	500.000	500.127	1632269.56	1.1966	A	0.3	0.0
6	☑	1000.000		3317099.85	2.4910	A	2.5	

y = 0.0024 * x + 0.0151
R = 1.0000
DL = 0.1162 ppb
BEC = 6.403 ppb

Weight: <None>
Min Conc: <None>

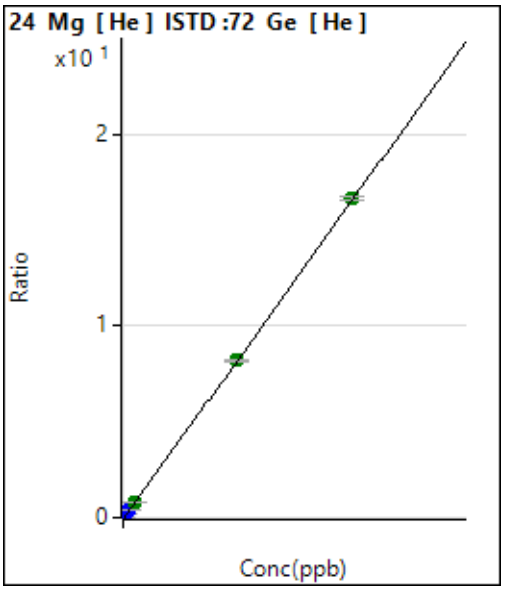


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293767.90	0.2310	P	0.9	
2	☐	200.000	186.715	599579.52	0.4806	A	1.3	-6.6
3	☐	500.000	463.850	1063923.00	0.8512	A	2.0	-7.2
4	☐	1000.000	975.818	1902532.99	1.5358	A	1.0	-2.4
5	☐	10000.00	9868.769	16300522.26	13.4275	A	1.5	-1.3
6	☐	20000.00	20067.86	32693223.68	27.0657	A	1.3	0.3

y = 0.0013 * x + 0.2310
R = 1.0000
DL = 4.627 ppb
BEC = 172.7 ppb

Weight: <None>
Min Conc: <None>

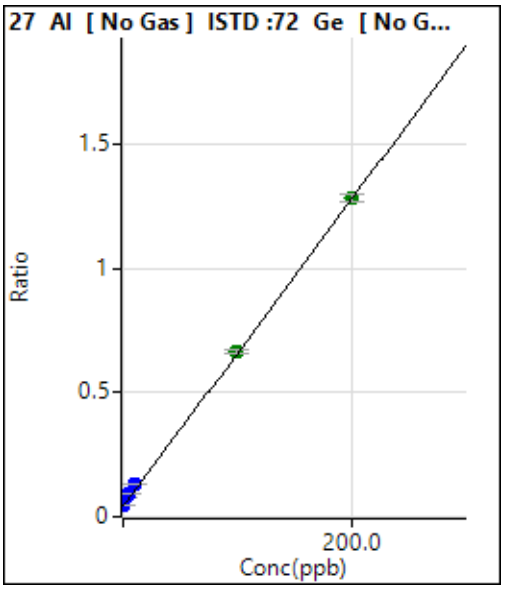
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.11	0.0012	P	7.2	
2	☐	200.000	190.029	198415.28	0.1590	P	2.0	-5.0
3	☐	500.000	473.233	492752.78	0.3942	P	2.3	-5.4
4	☐	1000.000	982.084	1011830.79	0.8168	A	1.5	-1.8
5	☐	10000.00	9871.318	9953434.64	8.1990	A	1.8	-1.3
6	☐	20000.00	20066.00	20130258.03	16.6653	A	1.3	0.3

y = 8.3046E-004 * x + 0.0012
R = 1.0000
DL = 0.322 ppb
BEC = 1.486 ppb

Weight: <None>
Min Conc: <None>

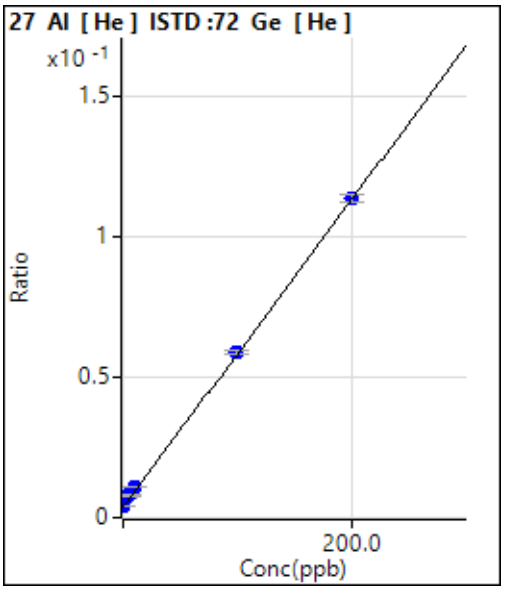


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	199746.04	0.0476	P	2.1	
2	☐	2.000	4.336	309293.57	0.0744	P	1.6	116.8
3	☐	5.000	7.410	384926.87	0.0934	P	1.4	48.2
4	☐	10.000	13.278	530705.45	0.1297	P	2.5	32.8
5	☐	100.000	99.883	2665271.94	0.6646	A	1.8	-0.1
6	☐	200.000	199.811	5111843.57	1.2819	A	1.8	-0.1

y = 0.0062 * x + 0.0476
R = 0.9999
DL = 0.4777 ppb
BEC = 7.711 ppb

Weight: <None>
Min Conc: <None>

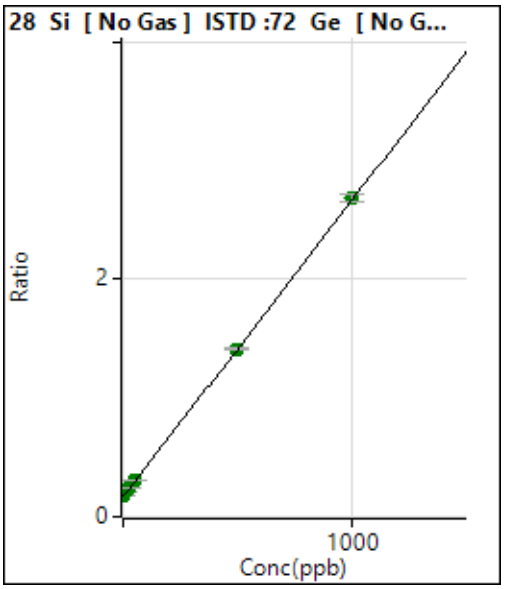
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5504.52	0.0043	P	4.9	
2	☐	2.000	4.473	8456.00	0.0068	P	1.5	123.6
3	☐	5.000	6.621	9940.35	0.0080	P	5.1	32.4
4	☐	10.000	12.536	13867.03	0.0112	P	0.1	25.4
5	☐	100.000	99.951	71713.01	0.0591	P	2.1	0.0
6	☐	200.000	199.832	137433.59	0.1138	P	2.0	-0.1

y = 5.4772E-004 * x + 0.0043
R = 0.9999
DL = 1.165 ppb
BEC = 7.901 ppb

Weight: <None>
Min Conc: <None>

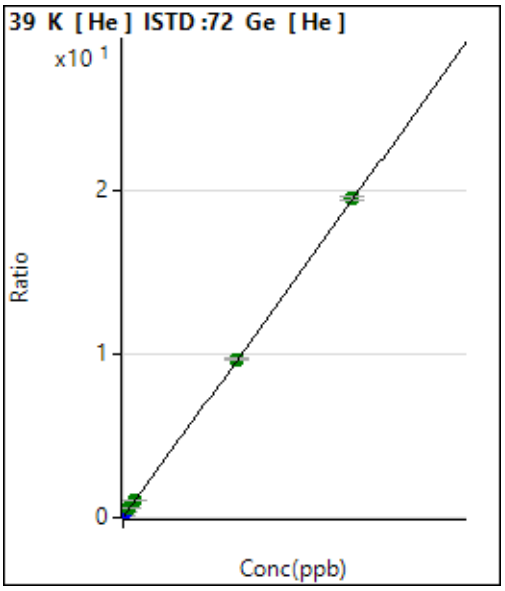


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	762259.39	0.1818	A	0.3	
2	☐	10.000	9.676	855730.90	0.2059	A	0.6	-3.2
3	☐	25.000	24.069	996524.02	0.2418	A	0.6	-3.7
4	☐	50.000	47.884	1233003.63	0.3012	A	0.8	-4.2
5	☐	500.000	492.650	5657539.50	1.4108	A	1.4	-1.5
6	☐	1000.000	1003.807	10710766.09	2.6860	A	2.1	0.4

y = 0.0025 * x + 0.1818
R = 1.0000
DL = 0.7144 ppb
BEC = 72.86 ppb

Weight: <None>
Min Conc: <None>

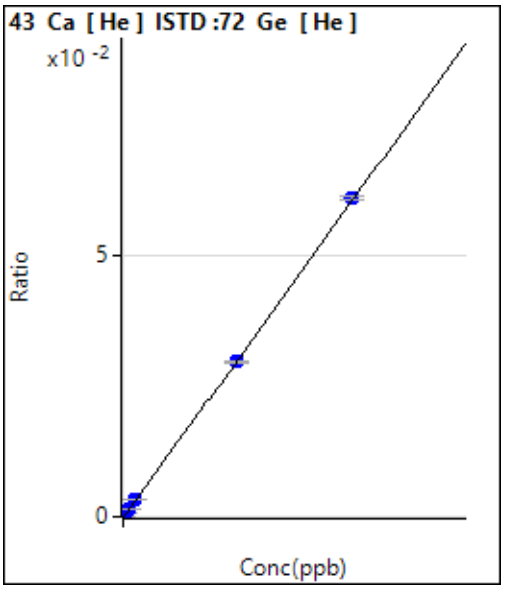
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147083.61	0.1156	P	1.8	
2	☐	200.000	190.956	375395.23	0.3009	P	1.8	-4.5
3	☐	500.000	474.351	719843.82	0.5759	A	1.6	-5.1
4	☐	1000.000	981.991	1323558.68	1.0684	A	1.2	-1.8
5	☐	10000.00	9883.309	11781614.41	9.7052	A	1.1	-1.2
6	☐	20000.00	20059.97	23650084.65	19.5795	A	0.6	0.3

y = 9.7028E-004 * x + 0.1156
R = 1.0000
DL = 6.352 ppb
BEC = 119.2 ppb

Weight: <None>
Min Conc: <None>

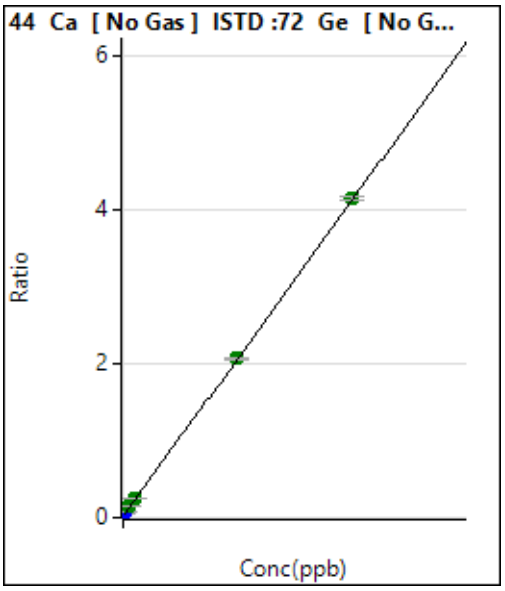


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	40.5	
2	☐	200.000	218.153	920.05	0.0007	P	11.2	9.1
3	☐	500.000	470.856	1876.83	0.0015	P	2.3	-5.8
4	☐	1000.000	1032.924	3963.98	0.0032	P	2.2	3.3
5	☐	10000.00	9762.944	35906.67	0.0296	P	1.6	-2.4
6	☐	20000.00	20117.42	73516.84	0.0609	P	1.3	0.6

y = 3.0216E-006 * x + 7.8699E-005
R = 0.9999
DL = 31.64 ppb
BEC = 26.05 ppb

Weight: <None>
Min Conc: <None>

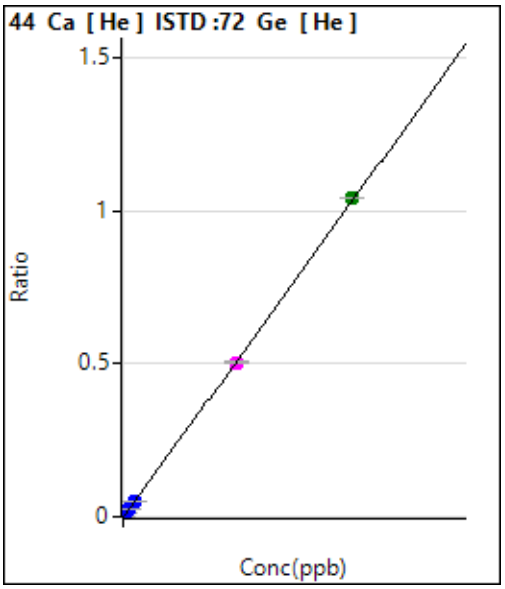
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	168054.53	0.0401	P	1.3	
2	☐	200.000	211.947	347107.31	0.0835	P	1.1	6.0
3	☐	500.000	519.192	603721.05	0.1465	A	2.0	3.8
4	☐	1000.000	1014.017	1014859.10	0.2479	A	1.8	1.4
5	☐	10000.00	9884.048	8285584.87	2.0661	A	2.0	-1.2
6	☐	20000.00	20056.67	16554127.67	4.1514	A	1.7	0.3

y = 2.0498E-004 * x + 0.0401
R = 1.0000
DL = 7.759 ppb
BEC = 195.5 ppb

Weight: <None>
Min Conc: <None>

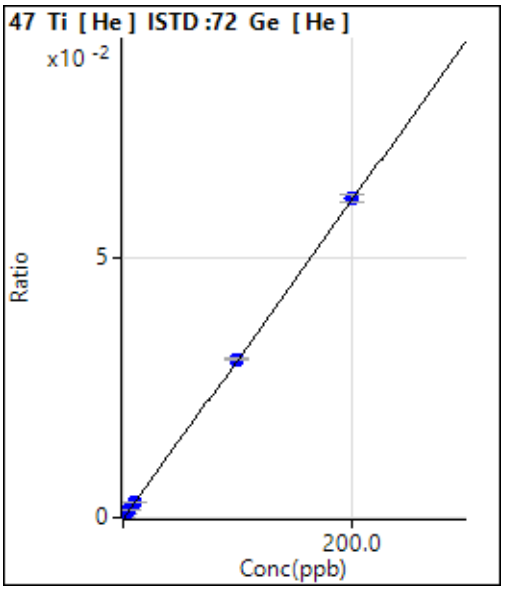


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3213.76	0.0025	P	5.8	
2	☐	200.000	200.944	16106.25	0.0129	P	3.8	0.5
3	☐	500.000	477.402	34005.20	0.0272	P	1.9	-4.5
4	☐	1000.000	969.881	65226.06	0.0527	P	2.3	-3.0
5	☐	10000.00	9732.564	613747.44	0.5056	M	2.0	-2.7
6	☐	20000.00	20135.77	1260152.89	1.0433	A	0.3	0.7

y = 5.1686E-005 * x + 0.0025
R = 0.9999
DL = 8.47 ppb
BEC = 48.9 ppb

Weight: <None>
Min Conc: <None>

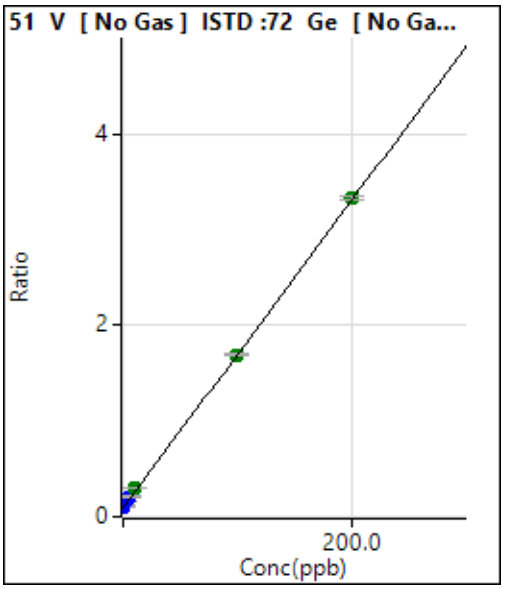
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	68.6	
2	☐	2.000	1.954	763.37	0.0006	P	9.7	-2.3
3	☐	5.000	4.627	1786.82	0.0014	P	6.6	-7.5
4	☐	10.000	9.726	3707.23	0.0030	P	7.7	-2.7
5	☐	100.000	99.266	36919.31	0.0304	P	1.3	-0.7
6	☐	200.000	200.390	74143.89	0.0614	P	1.9	0.2

y = 3.0624E-004 * x + 1.3064E-005
R = 1.0000
DL = 0.08776 ppb
BEC = 0.04266 ppb

Weight: <None>
Min Conc: <None>

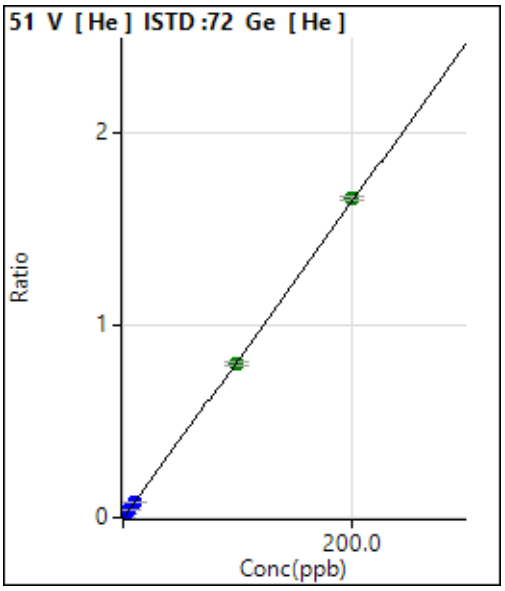


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461834.39	0.1101	P	0.5	
2	☐	2.000	2.988	657127.26	0.1581	P	1.1	49.4
3	☐	5.000	6.251	867554.09	0.2105	P	1.7	25.0
4	☐	10.000	11.736	1222300.28	0.2986	A	1.3	17.4
5	☐	100.000	98.623	6793375.79	1.6940	A	1.7	-1.4
6	☐	200.000	200.560	13283594.36	3.3312	A	1.4	0.3

y = 0.0161 * x + 0.1101
R = 0.9999
DL = 0.1124 ppb
BEC = 6.857 ppb

Weight: <None>
Min Conc: <None>

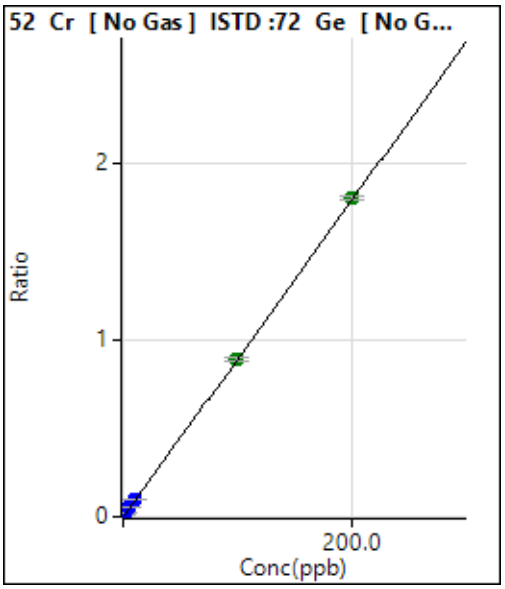
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3734.97	0.0029	P	3.3	
2	☐	2.000	1.910	23221.71	0.0186	P	3.0	-4.5
3	☐	5.000	4.791	52840.29	0.0423	P	3.2	-4.2
4	☐	10.000	9.752	102838.41	0.0830	P	1.5	-2.5
5	☐	100.000	97.243	972969.82	0.8015	A	2.1	-2.8
6	☐	200.000	201.397	2001199.57	1.6567	A	0.8	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.03565 ppb
BEC = 0.3575 ppb

Weight: <None>
Min Conc: <None>

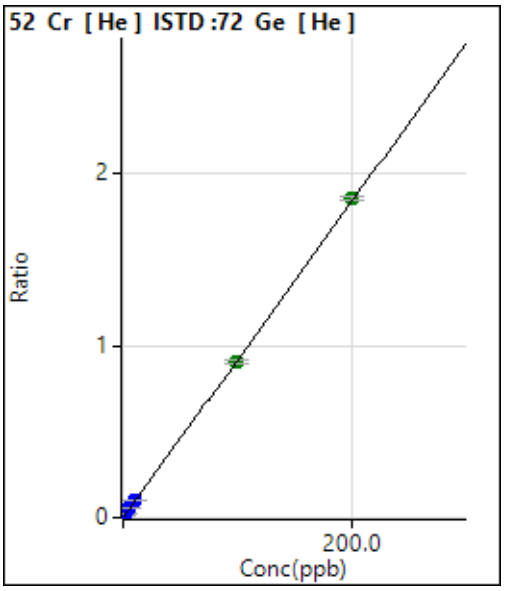


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25513.80	0.0061	P	0.7	
2	☐	2.000	2.049	101436.18	0.0244	P	0.6	2.4
3	☐	5.000	5.010	209728.65	0.0509	P	2.8	0.2
4	☐	10.000	10.075	393690.85	0.0962	P	3.0	0.7
5	☐	100.000	98.818	3568302.24	0.8898	A	1.8	-1.2
6	☐	200.000	200.587	7177513.85	1.7999	A	1.7	0.3

y = 0.0089 * x + 0.0061
R = 1.0000
DL = 0.01407 ppb
BEC = 0.6803 ppb

Weight: <None>
Min Conc: <None>

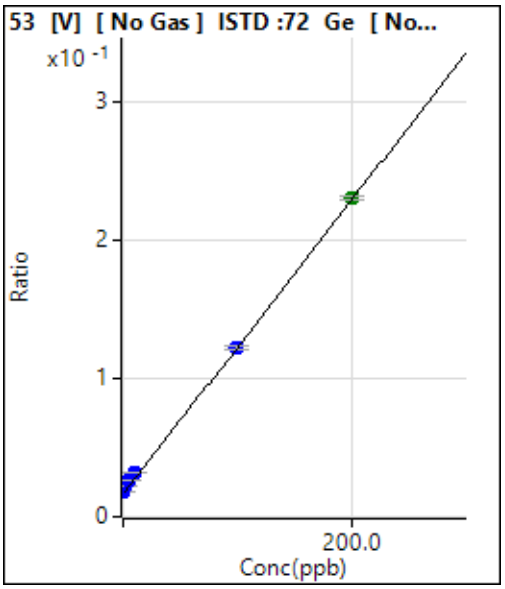
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11488.27	0.0090	P	5.2	
2	☐	2.000	1.952	33644.44	0.0270	P	2.0	-2.4
3	☐	5.000	4.921	67819.51	0.0543	P	3.6	-1.6
4	☐	10.000	9.915	124075.61	0.1002	P	1.3	-0.9
5	☐	100.000	97.776	1102025.32	0.9077	A	2.7	-2.2
6	☐	200.000	201.119	2243865.12	1.8576	A	1.0	0.6

y = 0.0092 * x + 0.0090
R = 0.9999
DL = 0.1524 ppb
BEC = 0.9824 ppb

Weight: <None>
Min Conc: <None>

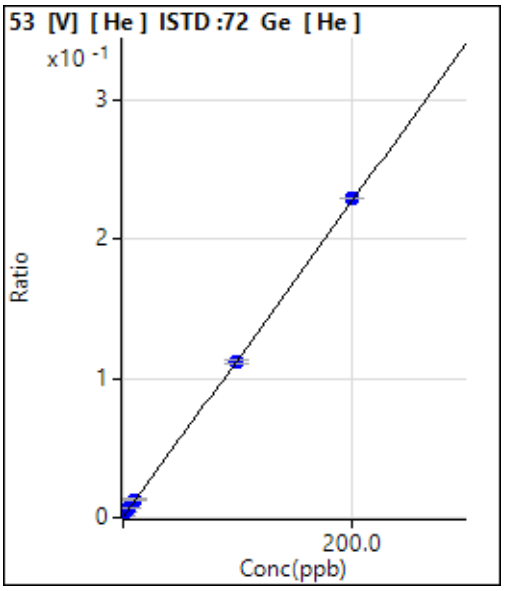


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73809.56	0.0176	P	1.5	
2	☐	2.000	4.588	93380.15	0.0225	P	2.0	129.4
3	☐	5.000	8.050	107743.59	0.0261	P	1.2	61.0
4	☐	10.000	13.809	132031.80	0.0323	P	0.9	38.1
5	☐	100.000	98.709	490674.39	0.1224	P	2.1	-1.3
6	☐	200.000	200.353	918086.91	0.2302	A	1.4	0.2

y = 0.0011 * x + 0.0176
R = 0.9998
DL = 0.722 ppb
BEC = 16.58 ppb

Weight: <None>
Min Conc: <None>

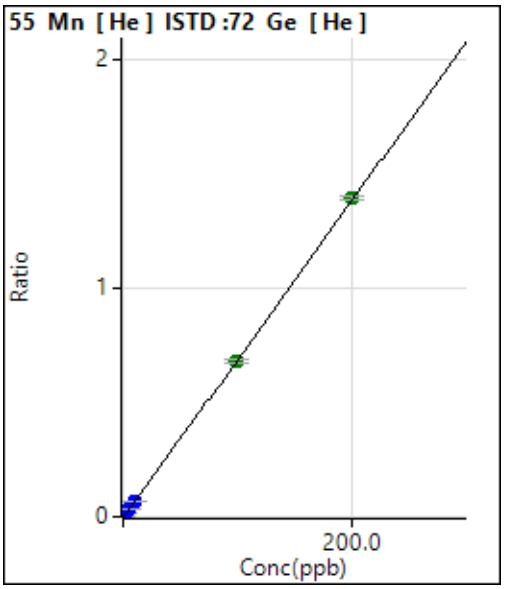
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1713.47	0.0013	P	7.2	
2	☐	2.000	2.199	4790.93	0.0038	P	6.0	10.0
3	☐	5.000	5.099	8906.37	0.0071	P	5.5	2.0
4	☐	10.000	10.192	15972.79	0.0129	P	4.9	1.9
5	☐	100.000	97.767	136121.58	0.1121	P	2.3	-2.2
6	☐	200.000	201.102	276867.57	0.2292	P	0.5	0.6

y = 0.0011 * x + 0.0013
R = 0.9999
DL = 0.2576 ppb
BEC = 1.189 ppb

Weight: <None>
Min Conc: <None>

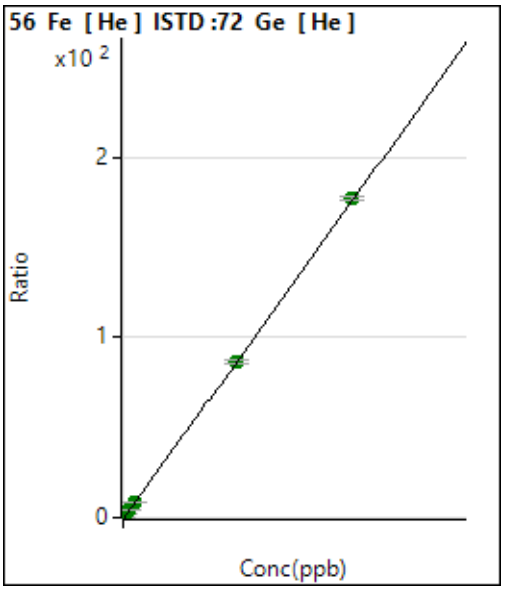


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0008	P	12.0	
2	☐	2.000	1.901	17438.01	0.0140	P	3.9	-5.0
3	☐	5.000	4.731	42000.91	0.0336	P	2.6	-5.4
4	☐	10.000	9.779	84980.74	0.0686	P	3.7	-2.2
5	☐	100.000	98.303	828549.83	0.6825	A	2.9	-1.7
6	☐	200.000	200.867	1683482.89	1.3937	A	0.9	0.4

y = 0.0069 * x + 7.9444E-004
R = 1.0000
DL = 0.04136 ppb
BEC = 0.1146 ppb

Weight: <None>
Min Conc: <None>

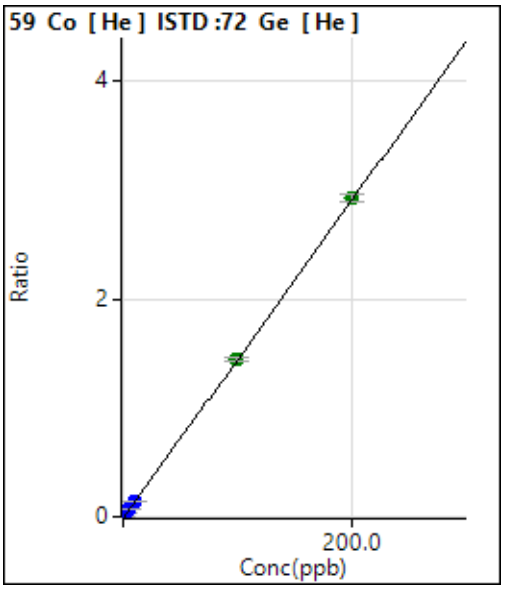
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27424.18	0.0216	P	2.1	
2	☐	200.000	190.126	2117621.74	1.6975	A	2.8	-4.9
3	☐	500.000	476.057	5272041.69	4.2180	A	2.0	-4.8
4	☐	1000.000	983.947	10770542.34	8.6951	A	2.6	-1.6
5	☐	10000.00	9785.140	104740625.1	86.2777	A	2.1	-2.1
6	☐	20000.00	20108.93	2141431768	177.282	A	1.1	0.5

y = 0.0088 * x + 0.0216
R = 0.9999
DL = 0.1538 ppb
BEC = 2.446 ppb

Weight: <None>
Min Conc: <None>

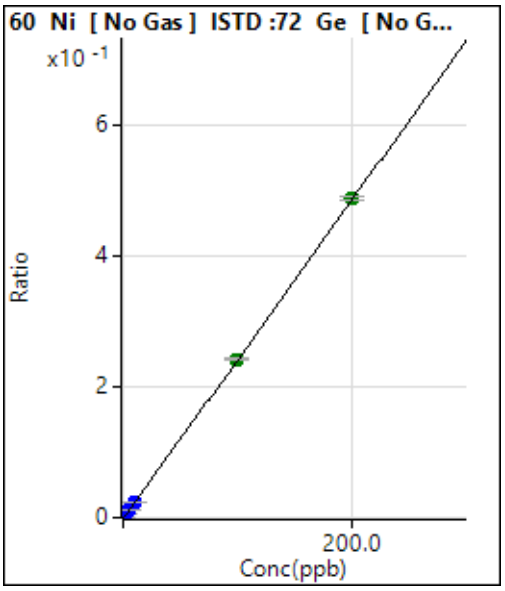


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	12.4	
2	☐	2.000	1.951	35686.65	0.0286	P	2.5	-2.4
3	☐	5.000	4.854	88744.77	0.0710	P	1.7	-2.9
4	☐	10.000	10.032	181616.32	0.1466	P	3.1	0.3
5	☐	100.000	98.851	1752746.12	1.4438	A	1.9	-1.1
6	☐	200.000	200.577	3538649.94	2.9295	A	2.3	0.3

y = 0.0146 * x + 1.1007E-004
R = 1.0000
DL = 0.002804 ppb
BEC = 0.007536 ppb

Weight: <None>
Min Conc: <None>

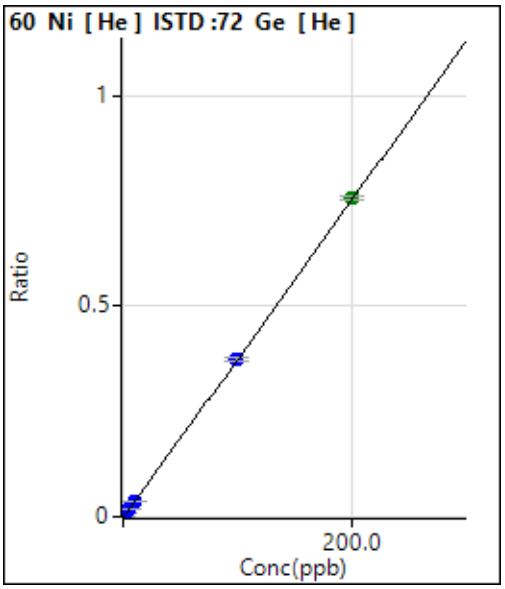
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0004	P	8.9	
2	☐	2.000	1.992	21790.93	0.0052	P	1.1	-0.4
3	☐	5.000	4.948	51275.70	0.0124	P	3.1	-1.0
4	☐	10.000	9.899	100280.86	0.0245	P	1.8	-1.0
5	☐	100.000	99.415	972410.59	0.2425	A	1.2	-0.6
6	☐	200.000	200.299	1946577.11	0.4881	A	1.5	0.1

y = 0.0024 * x + 3.9352E-004
R = 1.0000
DL = 0.04319 ppb
BEC = 0.1616 ppb

Weight: <None>
Min Conc: <None>

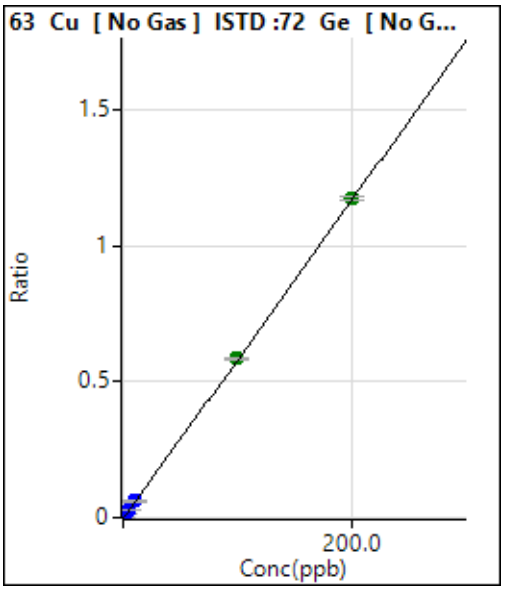


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.37	0.0006	P	6.5	
2	☐	2.000	1.925	9746.94	0.0078	P	3.5	-3.7
3	☐	5.000	4.854	23567.16	0.0189	P	0.8	-2.9
4	☐	10.000	9.962	47211.29	0.0381	P	3.0	-0.4
5	☐	100.000	99.122	454378.57	0.3743	P	2.2	-0.9
6	☐	200.000	200.445	913553.40	0.7563	A	1.0	0.2

y = 0.0038 * x + 5.5310E-004
R = 1.0000
DL = 0.02866 ppb
BEC = 0.1467 ppb

Weight: <None>
Min Conc: <None>

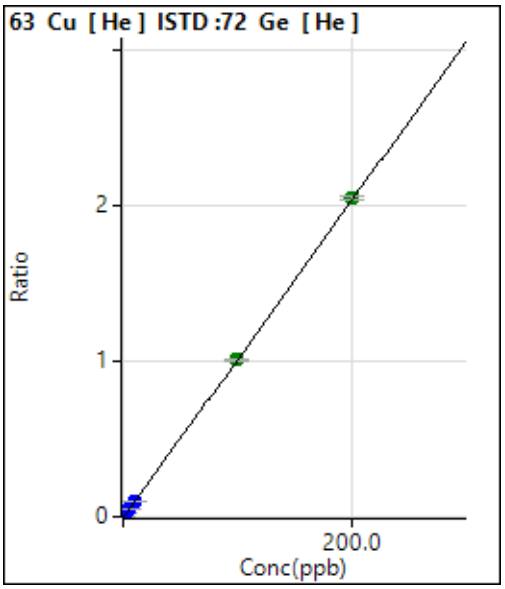
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3750.60	0.0009	P	3.8	
2	☐	2.000	2.070	54173.59	0.0130	P	2.4	3.5
3	☐	5.000	5.049	125728.37	0.0305	P	3.2	1.0
4	☐	10.000	10.143	247200.56	0.0604	P	1.6	1.4
5	☐	100.000	99.478	2343584.18	0.5844	A	1.4	-0.5
6	☐	200.000	200.252	4687473.68	1.1755	A	1.6	0.1

y = 0.0059 * x + 8.9430E-004
R = 1.0000
DL = 0.01717 ppb
BEC = 0.1525 ppb

Weight: <None>
Min Conc: <None>

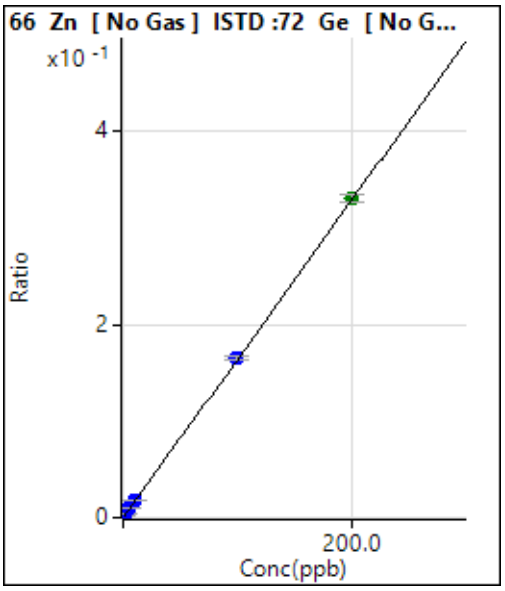


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1903.50	0.0015	P	2.9	
2	☐	2.000	1.944	26659.43	0.0214	P	3.7	-2.8
3	☐	5.000	4.868	64069.58	0.0513	P	3.3	-2.6
4	☐	10.000	9.956	127931.06	0.1033	P	1.5	-0.4
5	☐	100.000	98.686	1226524.49	1.0103	A	1.4	-1.3
6	☐	200.000	200.663	2479711.99	2.0528	A	1.7	0.3

y = 0.0102 * x + 0.0015
R = 1.0000
DL = 0.01253 ppb
BEC = 0.1464 ppb

Weight: <None>
Min Conc: <None>

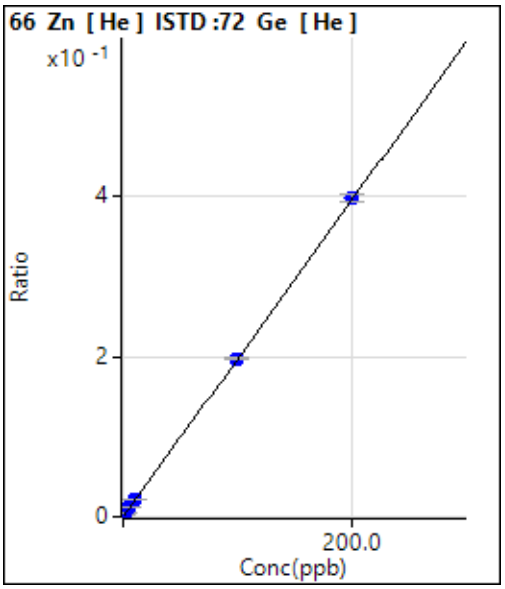
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6318.24	0.0015	P	1.4	
2	☐	2.000	1.851	18903.28	0.0045	P	3.3	-7.5
3	☐	5.000	4.831	38932.15	0.0094	P	1.6	-3.4
4	☐	10.000	9.998	73436.22	0.0179	P	3.5	0.0
5	☐	100.000	99.647	662914.18	0.1653	P	1.9	-0.4
6	☐	200.000	200.182	1318132.35	0.3306	A	2.0	0.1

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.03766 ppb
BEC = 0.9166 ppb

Weight: <None>
Min Conc: <None>

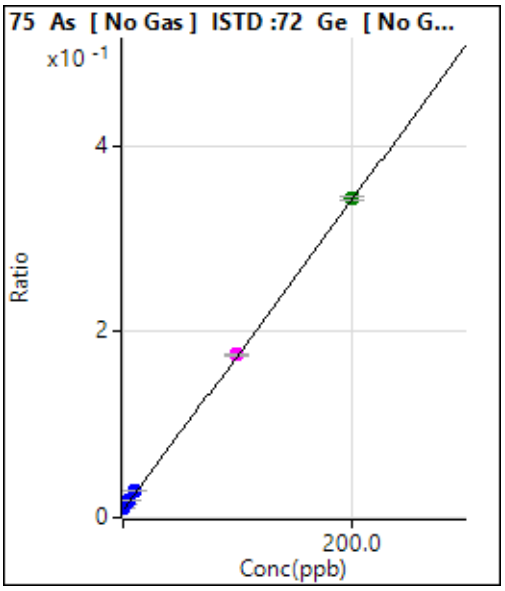


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.91	0.0019	P	5.1	
2	☐	2.000	1.672	6464.98	0.0052	P	2.5	-16.4
3	☐	5.000	4.618	13757.14	0.0110	P	1.5	-7.6
4	☐	10.000	9.856	26459.15	0.0214	P	2.1	-1.4
5	☐	100.000	99.014	239901.04	0.1976	P	1.8	-1.0
6	☐	200.000	200.513	481085.83	0.3983	P	2.2	0.3

y = 0.0020 * x + 0.0019
R = 1.0000
DL = 0.1463 ppb
BEC = 0.949 ppb

Weight: <None>
Min Conc: <None>

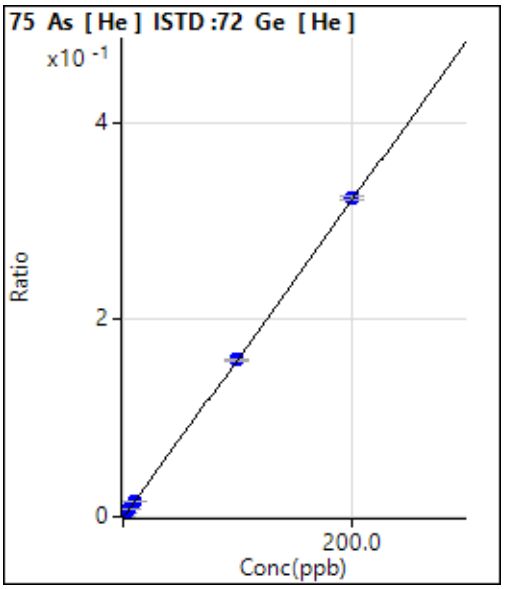
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40617.31	0.0097	P	1.4	
2	☐	2.000	2.995	61009.38	0.0147	P	1.2	49.8
3	☐	5.000	5.805	79802.28	0.0194	P	2.7	16.1
4	☐	10.000	11.197	116073.48	0.0284	P	1.4	12.0
5	☐	100.000	99.367	703303.64	0.1754	M	1.4	-0.6
6	☐	200.000	200.227	1369997.22	0.3436	A	1.7	0.1

y = 0.0017 * x + 0.0097
R = 1.0000
DL = 0.252 ppb
BEC = 5.808 ppb

Weight: <None>
Min Conc: <None>

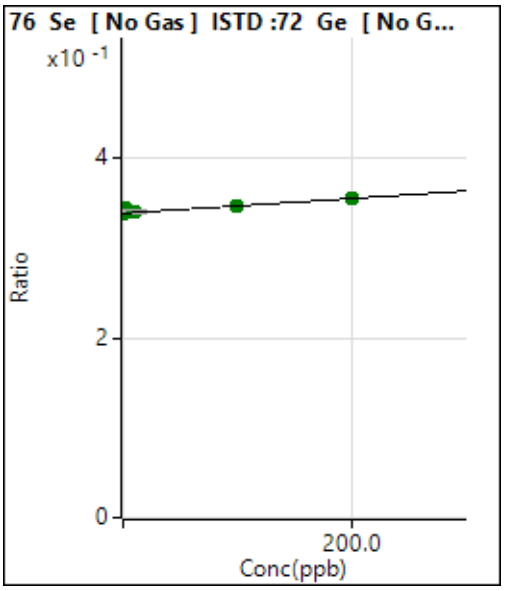


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.12	0.0003	P	8.3	
2	☐	2.000	1.898	4179.56	0.0034	P	6.1	-5.1
3	☐	5.000	4.791	10018.14	0.0080	P	3.1	-4.2
4	☐	10.000	9.707	19747.64	0.0159	P	3.5	-2.9
5	☐	100.000	98.735	193606.79	0.1595	P	1.6	-1.3
6	☐	200.000	200.653	391132.07	0.3238	P	1.5	0.3

y = 0.0016 * x + 2.9179E-004
R = 1.0000
DL = 0.04521 ppb
BEC = 0.181 ppb

Weight: <None>
Min Conc: <None>

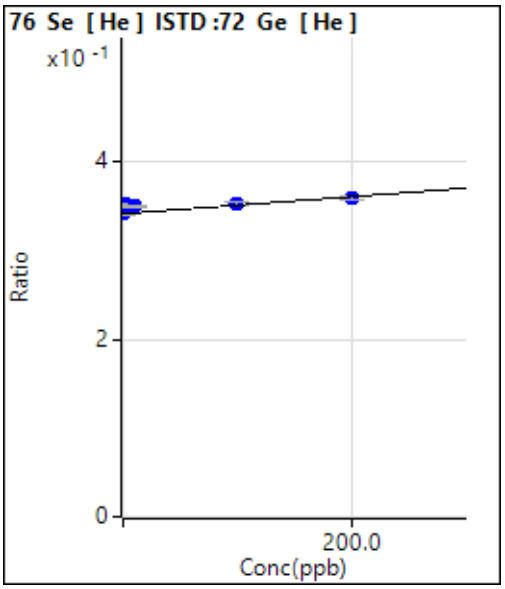
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1419884.15	0.3386	A	0.7	
2	☐	2.000	60.227	1427919.77	0.3436	A	0.8	2911.4
3	☐	5.000	28.505	1405097.79	0.3410	A	0.8	470.1
4	☐	10.000	26.996	1395120.55	0.3408	A	1.0	170.0
5	☐	100.000	94.524	1389318.06	0.3464	A	0.4	-5.5
6	☐	200.000	200.718	1416667.84	0.3553	A	0.1	0.4

y = 8.3106E-005 * x + 0.3386
R = 0.9601
DL = 84.36 ppb
BEC = 4074 ppb

Weight: <None>
Min Conc: <None>

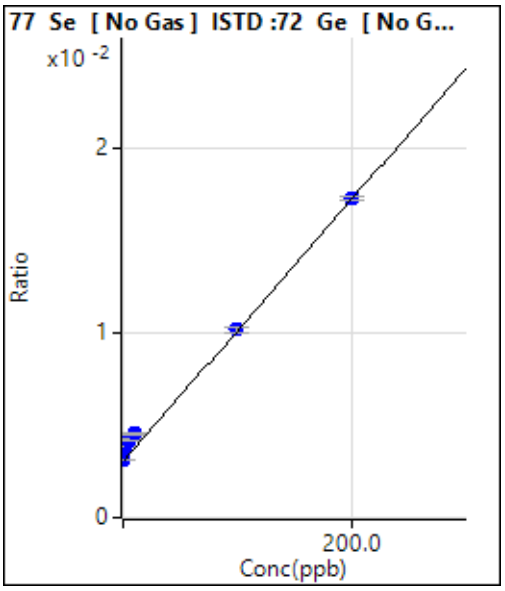


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435030.00	0.3420	P	0.4	
2	☐	2.000	109.615	439982.58	0.3527	P	0.6	5380.7
3	☐	5.000	85.565	437915.80	0.3503	P	1.2	1611.3
4	☐	10.000	83.546	433738.20	0.3501	P	0.6	735.5
5	☐	100.000	119.644	429273.79	0.3536	P	0.8	19.6
6	☐	200.000	183.411	434649.32	0.3598	P	1.2	-8.3

y = 9.7324E-005 * x + 0.3420
R = 0.7942
DL = 40.95 ppb
BEC = 3514 ppb

Weight: <None>
Min Conc: <None>

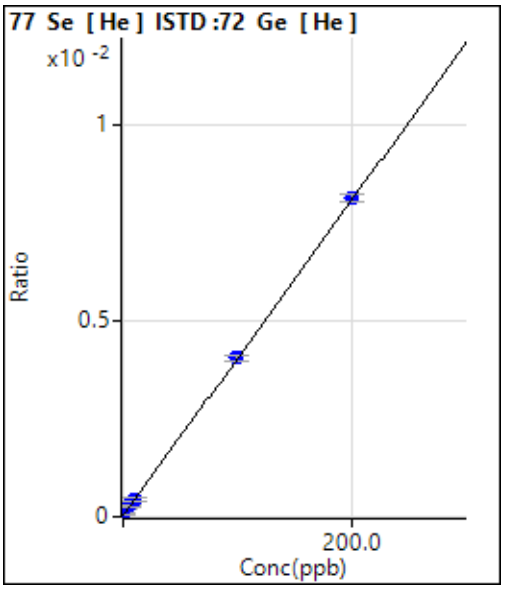
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13143.23	0.0031	P	0.5	
2	☐	2.000	10.169	16016.41	0.0039	P	1.4	408.4
3	☐	5.000	14.977	17284.56	0.0042	P	1.3	199.5
4	☐	10.000	19.879	18589.58	0.0045	P	1.5	98.8
5	☐	100.000	99.077	40694.29	0.0101	P	2.8	-0.9
6	☐	200.000	199.636	68850.06	0.0173	P	1.3	-0.2

y = 7.0788E-005 * x + 0.0031
R = 0.9986
DL = 0.7267 ppb
BEC = 44.27 ppb

Weight: <None>
Min Conc: <None>

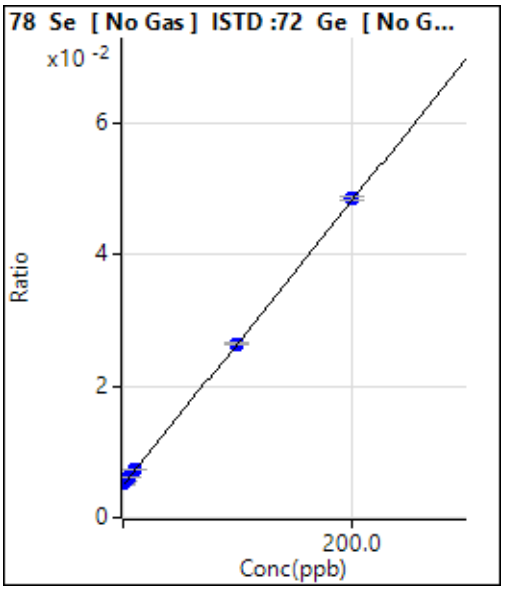


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	5.5	
2	☐	2.000	4.025	293.34	0.0002	P	24.3	101.3
3	☐	5.000	5.006	343.34	0.0003	P	5.9	0.1
4	☐	10.000	8.954	536.69	0.0004	P	15.3	-10.5
5	☐	100.000	99.038	4920.99	0.0041	P	4.2	-1.0
6	☐	200.000	200.513	9823.70	0.0081	P	2.5	0.3

y = 4.0196E-005 * x + 7.3358E-005
R = 0.9999
DL = 0.3024 ppb
BEC = 1.825 ppb

Weight: <None>
Min Conc: <None>

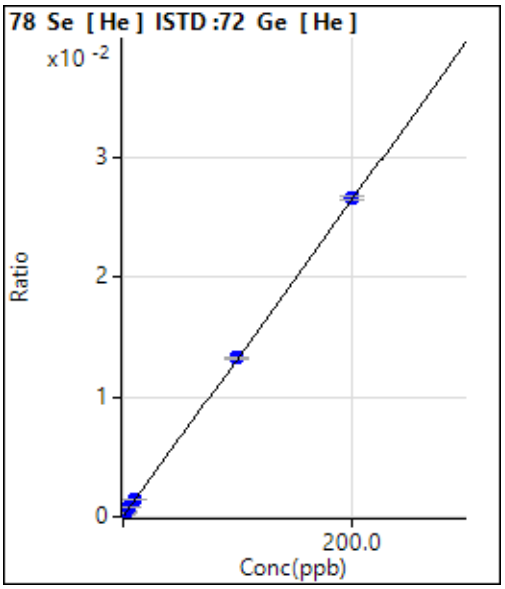
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21700.86	0.0052	P	2.7	
2	☐	2.000	1.436	22792.60	0.0055	P	2.2	-28.2
3	☐	5.000	4.676	25487.47	0.0062	P	0.7	-6.5
4	☐	10.000	9.469	29552.38	0.0072	P	0.8	-5.3
5	☐	100.000	98.475	106040.09	0.0264	P	1.5	-1.5
6	☐	200.000	200.803	193571.77	0.0485	P	1.4	0.4

y = 2.1598E-004 * x + 0.0052
R = 1.0000
DL = 1.907 ppb
BEC = 23.96 ppb

Weight: <None>
Min Conc: <None>

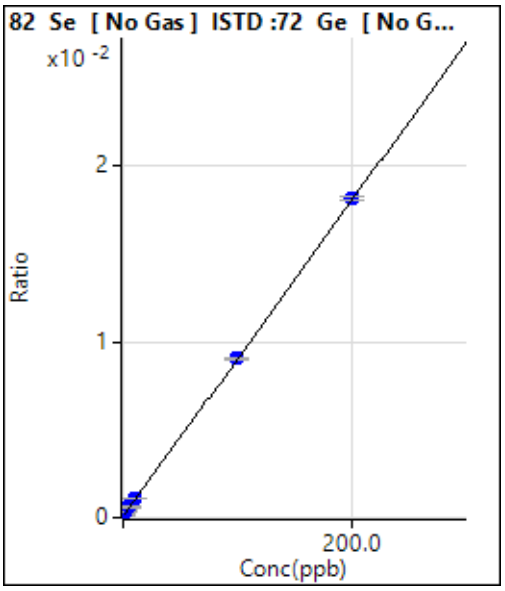


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.00	0.0002	P	13.6	
2	☐	2.000	1.860	498.01	0.0004	P	4.5	-7.0
3	☐	5.000	4.892	998.04	0.0008	P	8.8	-2.2
4	☐	10.000	9.497	1741.45	0.0014	P	3.9	-5.0
5	☐	100.000	99.104	16044.13	0.0132	P	1.5	-0.9
6	☐	200.000	200.477	32103.68	0.0266	P	1.8	0.2

y = 1.3180E-004 * x + 1.5411E-004
R = 1.0000
DL = 0.4782 ppb
BEC = 1.169 ppb

Weight: <None>
Min Conc: <None>

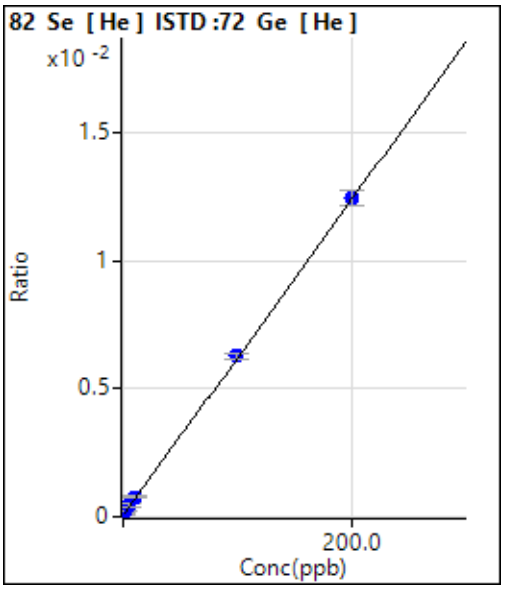
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	706.70	0.0002	P	15.2	
2	☐	2.000	2.376	1586.79	0.0004	P	8.3	18.8
3	☐	5.000	4.939	2520.28	0.0006	P	7.5	-1.2
4	☐	10.000	10.532	4557.52	0.0011	P	3.1	5.3
5	☐	100.000	98.995	36292.15	0.0090	P	0.9	-1.0
6	☐	200.000	200.474	72389.39	0.0182	P	1.4	0.2

y = 8.9713E-005 * x + 1.6852E-004
R = 1.0000
DL = 0.855 ppb
BEC = 1.878 ppb

Weight: <None>
Min Conc: <None>

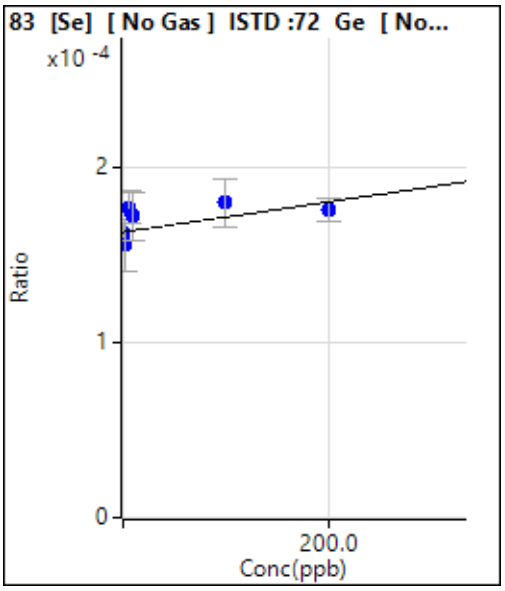


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	21.8	
2	☐	2.000	2.333	320.01	0.0003	P	4.0	16.6
3	☐	5.000	5.433	560.03	0.0004	P	20.3	8.7
4	☐	10.000	10.906	973.39	0.0008	P	4.5	9.1
5	☐	100.000	99.808	7615.64	0.0063	P	4.0	-0.2
6	☐	200.000	200.037	15048.64	0.0125	P	4.8	0.0

y = 6.1720E-005 * x + 1.1259E-004
R = 1.0000
DL = 1.191 ppb
BEC = 1.824 ppb

Weight: <None>
Min Conc: <None>

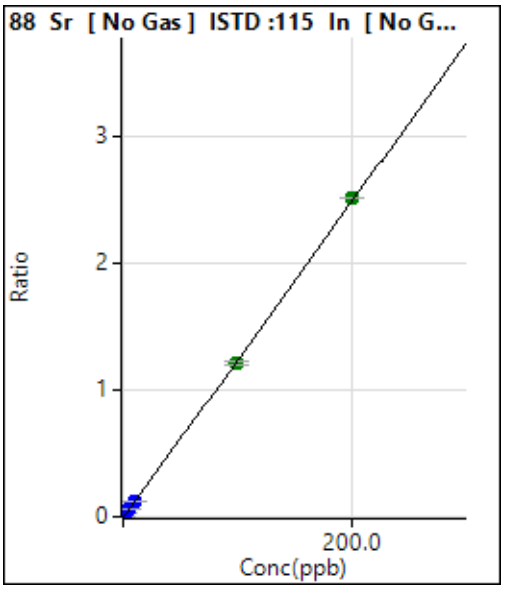
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	683.36	0.0002	P	6.7	
2	☐	2.000	-83.994	646.70	0.0002	P	18.9	-4299.7
3	☐	5.000	164.592	730.03	0.0002	P	10.2	3191.8
4	☐	10.000	102.388	703.36	0.0002	P	15.5	923.9
5	☐	100.000	192.720	720.04	0.0002	P	15.4	92.7
6	☐	200.000	145.891	700.03	0.0002	P	7.8	-27.1

y = 8.6578E-008 * x + 1.6294E-004
R = 0.5143
DL = 378.9 ppb
BEC = 1882 ppb

Weight: <None>
Min Conc: <None>

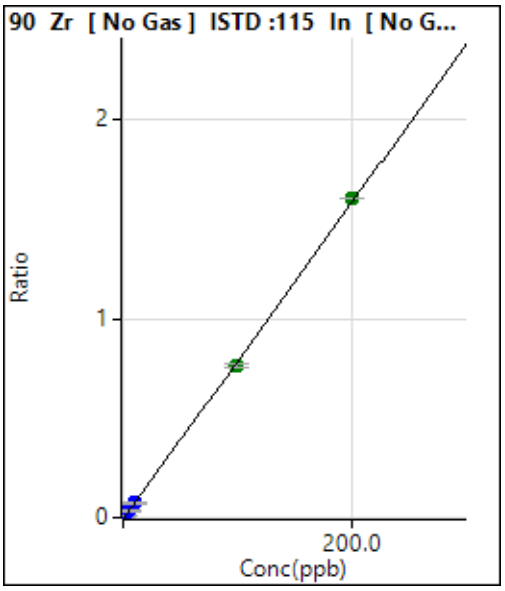


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9133.27	0.0020	P	3.8	
2	☐	2.000	1.954	121270.54	0.0263	P	0.3	-2.3
3	☐	5.000	4.794	284595.76	0.0617	P	2.3	-4.1
4	☐	10.000	9.735	559837.61	0.1233	P	2.6	-2.6
5	☐	100.000	97.117	5386439.09	1.2122	A	2.5	-2.9
6	☐	200.000	201.460	10960580.67	2.5125	A	0.2	0.7

y = 0.0125 * x + 0.0020
R = 0.9999
DL = 0.01787 ppb
BEC = 0.1582 ppb

Weight: <None>
Min Conc: <None>

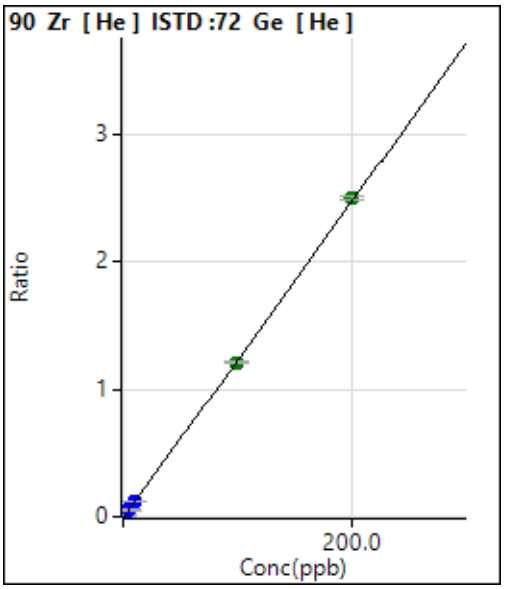
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.13	0.0003	P	11.6	
2	☐	2.000	1.606	60418.91	0.0131	P	1.5	-19.7
3	☐	5.000	4.226	156601.02	0.0340	P	3.9	-15.5
4	☐	10.000	9.139	331641.48	0.0730	P	2.0	-8.6
5	☐	100.000	96.408	3409285.05	0.7672	A	2.3	-3.6
6	☐	200.000	201.863	7006775.94	1.6061	A	0.6	0.9

y = 0.0080 * x + 3.3893E-004
R = 0.9998
DL = 0.01479 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

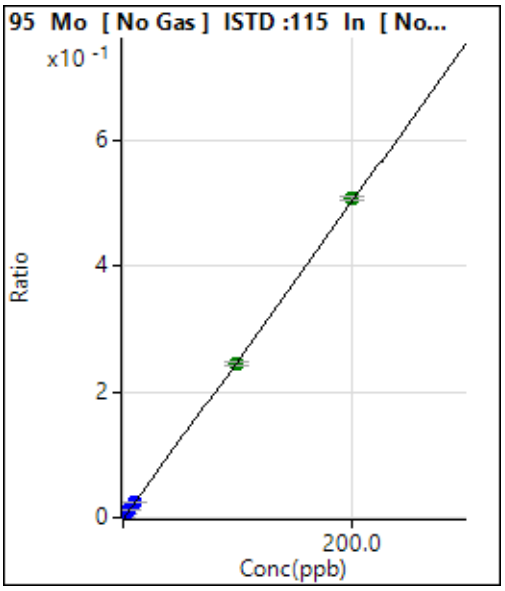


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0013	P	3.3	
2	☐	2.000	1.581	26125.56	0.0209	P	4.3	-21.0
3	☐	5.000	4.218	67146.63	0.0537	P	3.7	-15.6
4	☐	10.000	9.089	141559.93	0.1143	P	1.7	-9.1
5	☐	100.000	97.357	1470607.32	1.2114	A	1.3	-2.6
6	☐	200.000	201.391	3025304.33	2.5046	A	1.7	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.01023 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

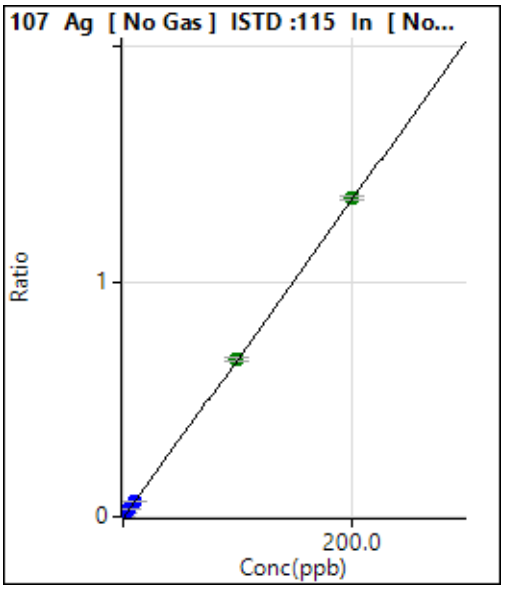
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0000	P	8.4	
2	☐	2.000	1.845	21644.48	0.0047	P	3.1	-7.8
3	☐	5.000	4.789	55882.77	0.0121	P	5.1	-4.2
4	☐	10.000	9.656	110702.46	0.0244	P	2.8	-3.4
5	☐	100.000	97.220	1088724.80	0.2450	A	2.1	-2.8
6	☐	200.000	201.414	2214248.20	0.5075	A	1.2	0.7

y = 0.0025 * x + 4.9646E-005
R = 0.9999
DL = 0.004983 ppb
BEC = 0.0197 ppb

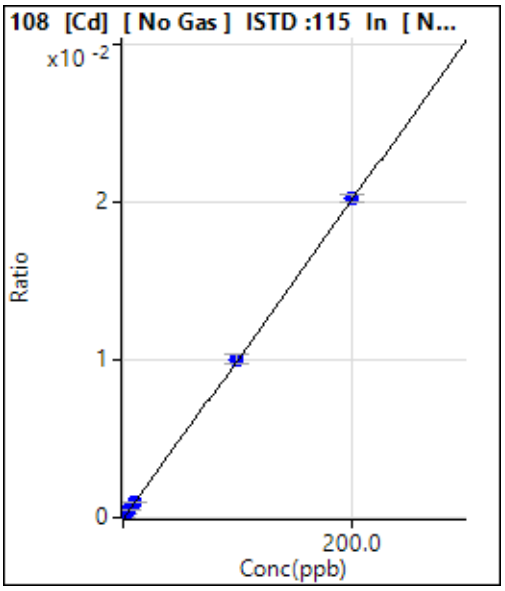
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1593.46	0.0003	P	6.7	
2	☐	2.000	2.041	65151.99	0.0141	P	2.7	2.1
3	☐	5.000	4.932	155351.91	0.0337	P	3.4	-1.4
4	☐	10.000	9.990	308231.04	0.0679	P	1.3	-0.1
5	☐	100.000	99.127	2979166.31	0.6705	A	2.5	-0.9
6	☐	200.000	200.438	5912939.70	1.3553	A	1.3	0.2

y = 0.0068 * x + 3.4395E-004
R = 1.0000
DL = 0.01028 ppb
BEC = 0.05088 ppb

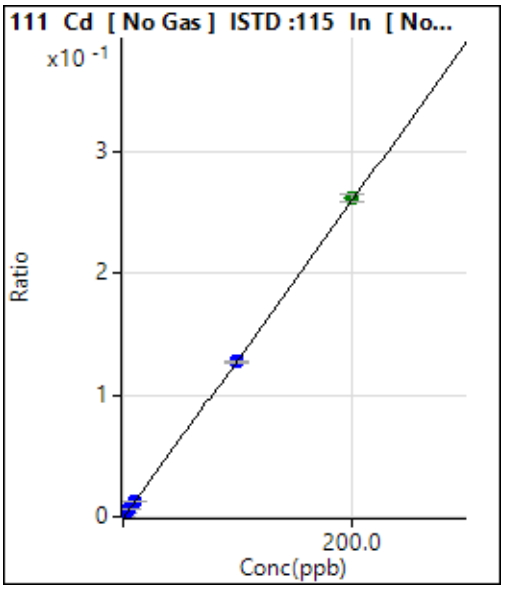
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	2.110	1000.06	0.0002	P	15.8	5.5
3	☐	5.000	4.648	2183.55	0.0005	P	14.5	-7.0
4	☐	10.000	10.087	4647.59	0.0010	P	0.5	0.9
5	☐	100.000	99.400	44665.07	0.0101	P	5.4	-0.6
6	☐	200.000	200.303	88371.65	0.0203	P	1.9	0.2

y = 1.0111E-004 * x + 3.5984E-006
R = 1.0000
DL = 0.09772 ppb
BEC = 0.03559 ppb

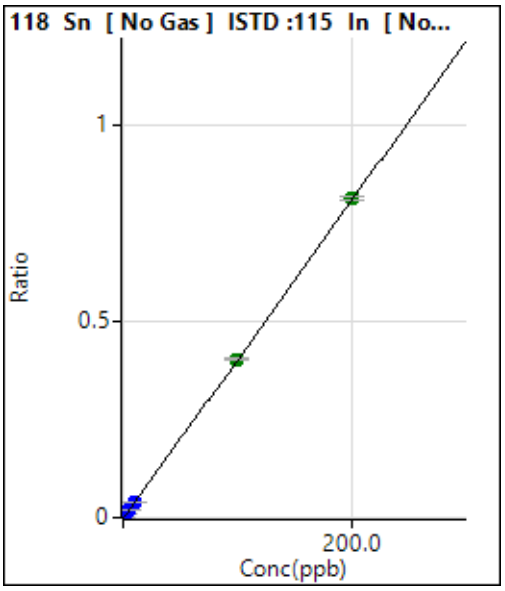
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	564.6	
2	☐	2.000	1.956	11750.03	0.0026	P	1.5	-2.2
3	☐	5.000	4.841	29111.02	0.0063	P	1.9	-3.2
4	☐	10.000	9.846	58279.74	0.0128	P	2.5	-1.5
5	☐	100.000	97.902	567131.85	0.1276	P	1.4	-2.1
6	☐	200.000	201.061	1143495.16	0.2621	A	2.0	0.5

y = 0.0013 * x + 4.5202E-007
R = 0.9999
DL = 0.005874 ppb
BEC = 0.0003468 ppb

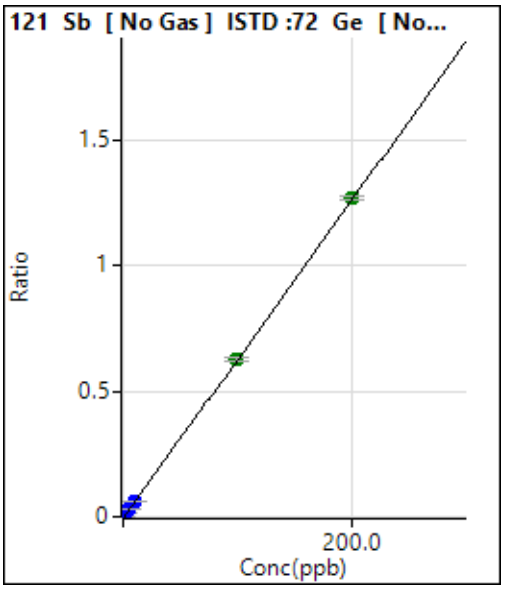
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.47	0.0011	P	2.6	
2	☐	2.000	1.991	42311.25	0.0092	P	2.2	-0.5
3	☐	5.000	4.859	95908.51	0.0208	P	2.1	-2.8
4	☐	10.000	9.797	185213.59	0.0408	P	2.2	-2.0
5	☐	100.000	99.305	1791470.91	0.4031	A	1.8	-0.7
6	☐	200.000	200.361	3543706.62	0.8123	A	1.5	0.2

y = 0.0040 * x + 0.0011
R = 1.0000
DL = 0.02168 ppb
BEC = 0.2781 ppb

Weight: <None>
Min Conc: <None>

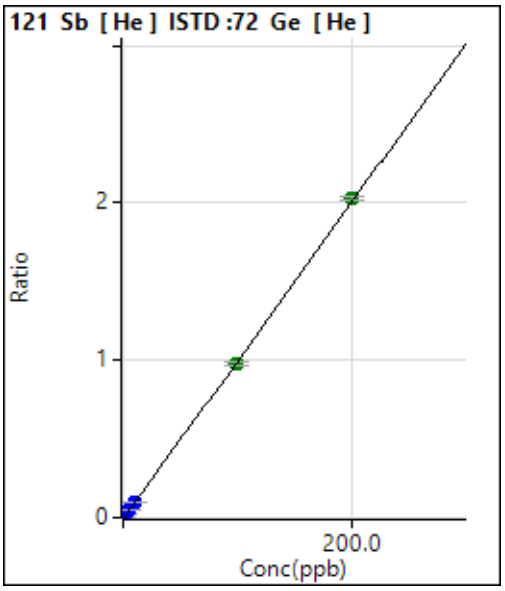


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	960.05	0.0002	P	3.8	
2	☐	2.000	1.953	52260.04	0.0126	P	1.5	-2.4
3	☐	5.000	4.934	129491.66	0.0314	P	2.0	-1.3
4	☐	10.000	9.876	256522.06	0.0627	P	2.4	-1.2
5	☐	100.000	98.962	2510060.53	0.6259	A	1.8	-1.0
6	☐	200.000	200.527	5056640.03	1.2681	A	1.4	0.3

y = 0.0063 * x + 2.2893E-004
R = 1.0000
DL = 0.004131 ppb
BEC = 0.03621 ppb

Weight: <None>
Min Conc: <None>

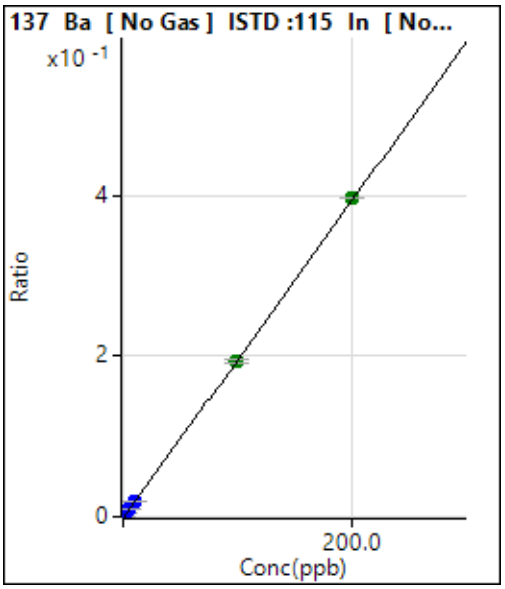
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0003	P	13.2	
2	☐	2.000	1.896	24252.50	0.0194	P	0.8	-5.2
3	☐	5.000	4.699	59564.31	0.0477	P	2.9	-6.0
4	☐	10.000	9.817	122875.85	0.0992	P	3.4	-1.8
5	☐	100.000	96.991	1186069.07	0.9770	A	1.5	-3.0
6	☐	200.000	201.522	2451598.82	2.0296	A	1.5	0.8

y = 0.0101 * x + 3.4607E-004
R = 0.9998
DL = 0.0136 ppb
BEC = 0.03437 ppb

Weight: <None>
Min Conc: <None>

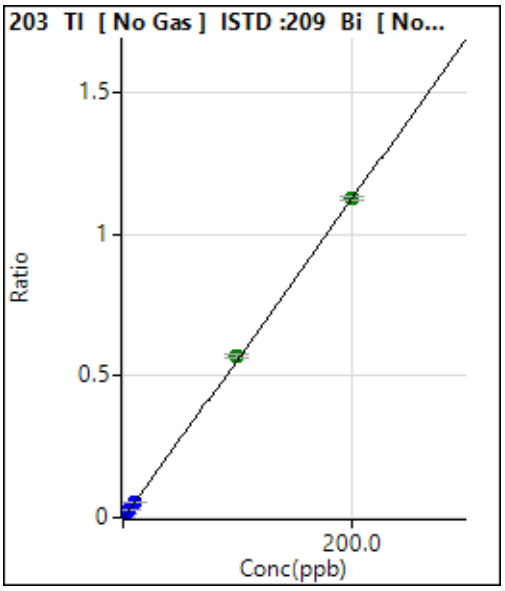


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.71	0.0002	P	15.7	
2	☐	2.000	2.080	19695.16	0.0043	P	2.9	4.0
3	☐	5.000	4.899	45395.57	0.0098	P	3.0	-2.0
4	☐	10.000	9.819	88836.22	0.0196	P	1.5	-1.8
5	☐	100.000	98.116	862010.17	0.1940	A	2.8	-1.9
6	☐	200.000	200.953	1732609.76	0.3972	A	0.4	0.5

y = 0.0020 * x + 1.6551E-004
R = 0.9999
DL = 0.03945 ppb
BEC = 0.08378 ppb

Weight: <None>
Min Conc: <None>

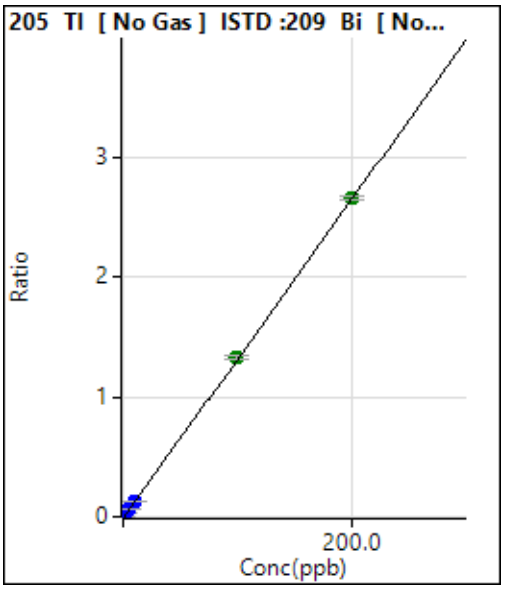
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	18.8	
2	☐	2.000	1.969	43361.84	0.0112	P	2.9	-1.6
3	☐	5.000	4.960	109414.55	0.0281	P	1.6	-0.8
4	☐	10.000	9.775	212416.36	0.0552	P	0.8	-2.3
5	☐	100.000	100.789	2138360.59	0.5686	A	1.8	0.8
6	☐	200.000	199.618	4236776.60	1.1261	A	1.3	-0.2

y = 0.0056 * x + 7.6943E-005
R = 1.0000
DL = 0.007703 ppb
BEC = 0.01364 ppb

Weight: <None>
Min Conc: <None>

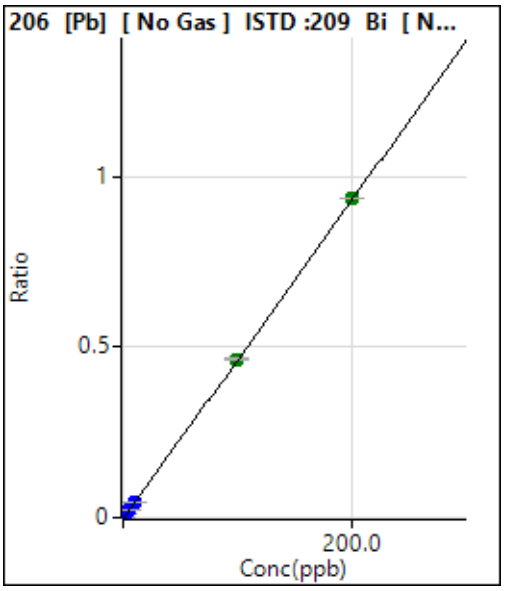


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	13.2	
2	☐	2.000	1.961	102032.62	0.0263	P	2.9	-2.0
3	☐	5.000	4.883	254579.84	0.0653	P	2.6	-2.3
4	☐	10.000	9.735	500079.34	0.1300	P	2.0	-2.7
5	☐	100.000	100.154	5023606.18	1.3358	A	1.7	0.2
6	☐	200.000	199.940	10032632.35	2.6666	A	1.3	0.0

y = 0.0133 * x + 1.6397E-004
R = 1.0000
DL = 0.004868 ppb
BEC = 0.01229 ppb

Weight: <None>
Min Conc: <None>

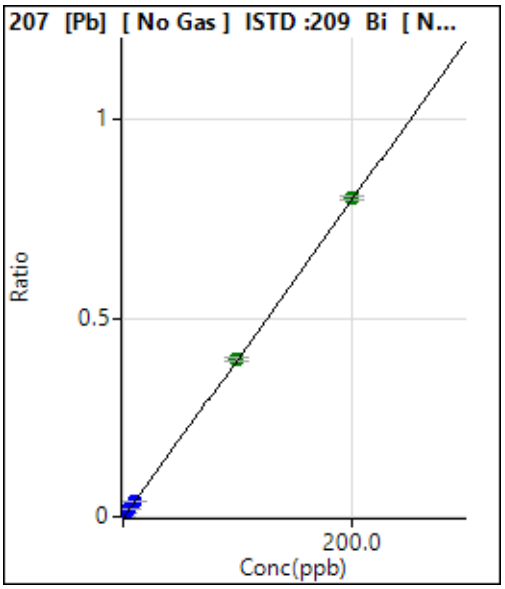
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0002	P	22.1	
2	☐	2.000	2.006	37028.24	0.0095	P	2.0	0.3
3	☐	5.000	4.839	88896.72	0.0228	P	2.7	-3.2
4	☐	10.000	9.947	179565.38	0.0467	P	2.6	-0.5
5	☐	100.000	99.321	1746801.59	0.4645	A	1.8	-0.7
6	☐	200.000	200.346	3524680.26	0.9368	A	0.3	0.2

y = 0.0047 * x + 1.7110E-004
R = 1.0000
DL = 0.02421 ppb
BEC = 0.0366 ppb

Weight: <None>
Min Conc: <None>

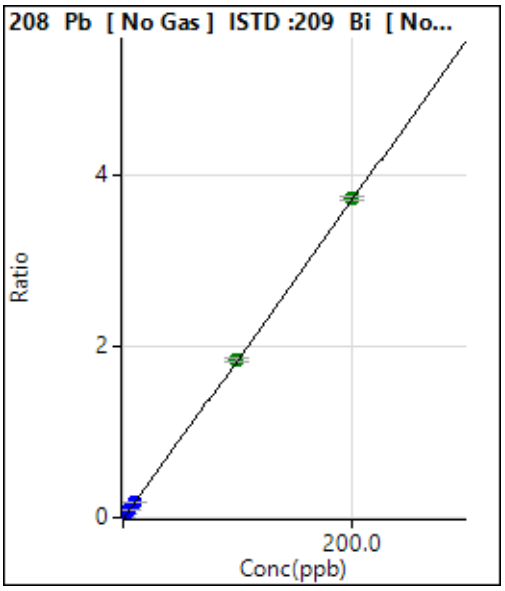


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	21.4	
2	☐	2.000	1.956	31018.76	0.0080	P	3.1	-2.2
3	☐	5.000	4.865	76643.76	0.0197	P	2.1	-2.7
4	☐	10.000	9.817	151985.68	0.0395	P	2.3	-1.8
5	☐	100.000	99.075	1493789.25	0.3972	A	2.1	-0.9
6	☐	200.000	200.475	3023524.75	0.8036	A	1.4	0.2

y = 0.0040 * x + 1.6049E-004
R = 1.0000
DL = 0.02568 ppb
BEC = 0.04005 ppb

Weight: <None>
Min Conc: <None>

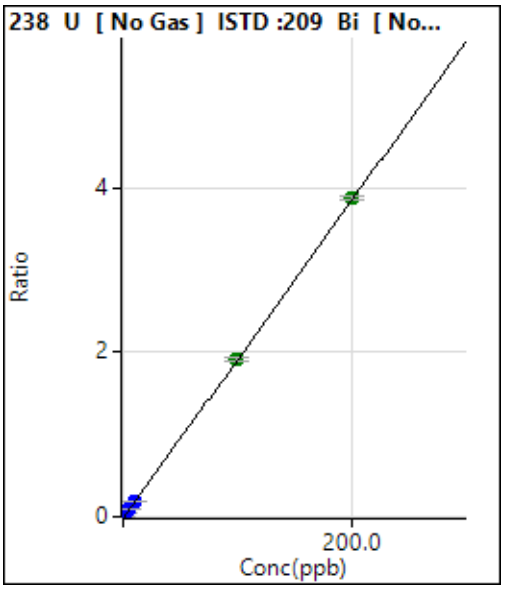
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2676.84	0.0007	P	2.4	
2	☐	2.000	1.978	145562.64	0.0375	P	2.3	-1.1
3	☐	5.000	4.869	356419.41	0.0914	P	2.5	-2.6
4	☐	10.000	9.882	710873.52	0.1848	P	2.4	-1.2
5	☐	100.000	99.153	6948438.60	1.8477	A	1.7	-0.8
6	☐	200.000	200.433	14050124.48	3.7343	A	1.4	0.2

y = 0.0186 * x + 6.8618E-004
R = 1.0000
DL = 0.002623 ppb
BEC = 0.03684 ppb

Weight: <None>
Min Conc: <None>

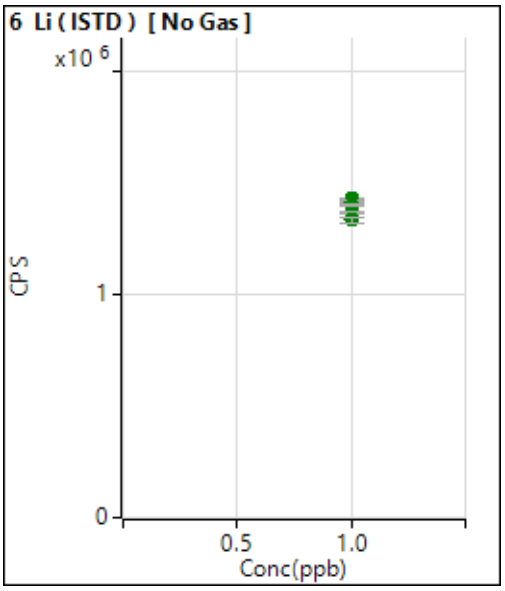


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.38	0.0002	P	7.6	
2	☐	2.000	1.869	140917.91	0.0363	P	2.8	-6.5
3	☐	5.000	4.667	352601.88	0.0904	P	1.2	-6.7
4	☐	10.000	9.470	705100.79	0.1833	P	2.2	-5.3
5	☐	100.000	98.856	7186615.73	1.9110	A	1.8	-1.1
6	☐	200.000	200.608	14589493.11	3.8778	A	0.9	0.3

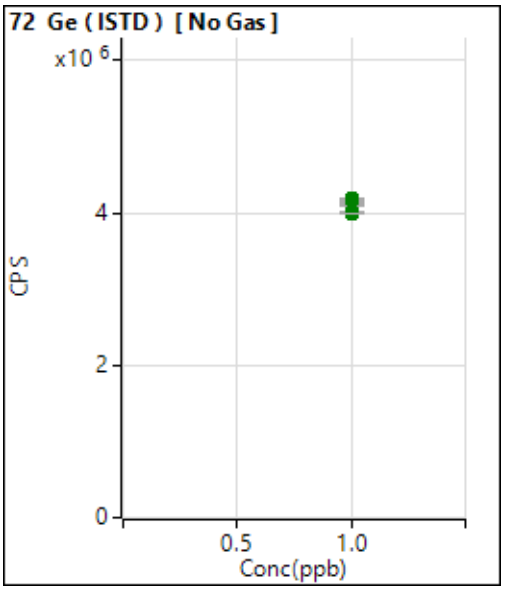
y = 0.0193 * x + 2.0587E-004
R = 1.0000
DL = 0.002414 ppb
BEC = 0.01065 ppb

Weight: <None>
Min Conc: <None>

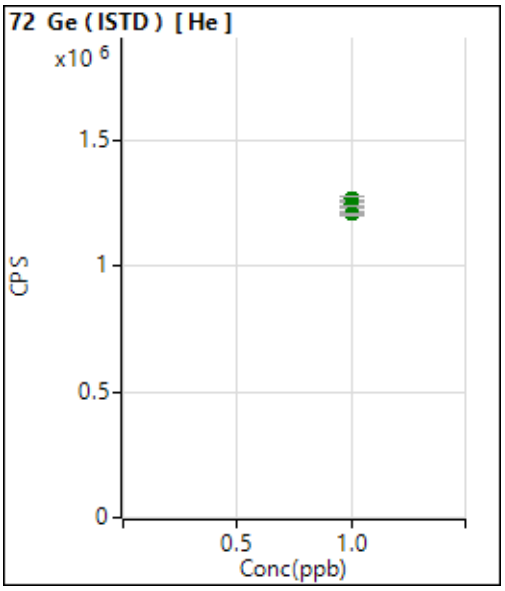
Calibration for 017_ICV.d



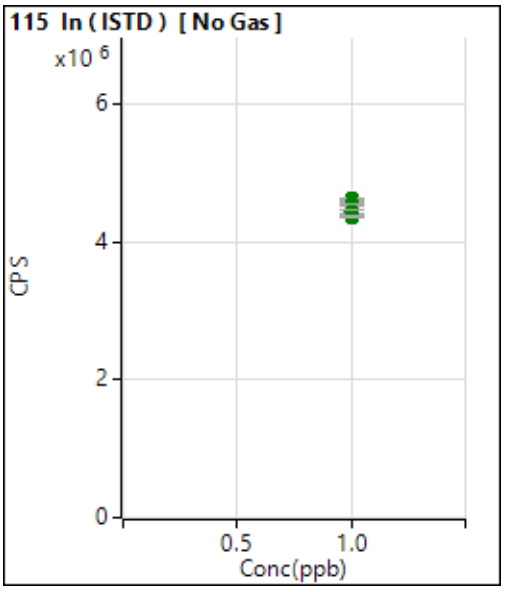
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1429276.11		A	0.6	
2	☐	1.000		1417965.71		A	1.2	
3	☐	1.000		1413014.56		A	0.9	
4	☐	1.000		1396686.32		A	0.5	
5	☐	1.000		1364042.84		A	0.2	
6	☐	1.000		1331983.50		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4193657.54		A	0.2	
2	☐	1.000		4156025.36		A	0.5	
3	☐	1.000		4121121.09		A	0.4	
4	☐	1.000		4093381.09		A	0.2	
5	☐	1.000		4010285.77		A	0.4	
6	☐	1.000		3987672.86		A	0.2	

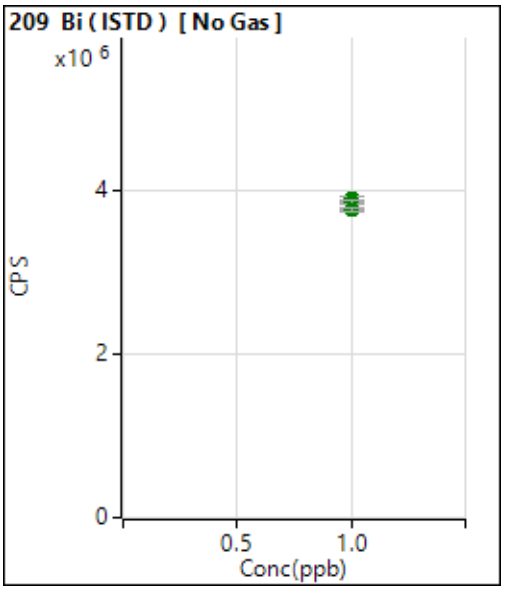


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1272004.36		A	0.8	
2	☐	1.000		1247560.27		A	0.9	
3	☐	1.000		1250040.34		A	1.1	
4	☐	1.000		1238824.64		A	0.6	
5	☐	1.000		1213889.20		A	0.7	
6	☐	1.000		1207897.95		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4632313.39		A	0.3	
2	☐	1.000		4606792.99		A	0.8	
3	☐	1.000		4612400.23		A	0.5	
4	☐	1.000		4540878.92		A	0.4	
5	☐	1.000		4444187.88		A	1.0	
6	☐	1.000		4362432.83		A	0.7	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3900842.23		A	0.8	
2	☐	1.000		3877954.01		A	0.3	
3	☐	1.000		3899647.44		A	1.8	
4	☐	1.000		3846870.04		A	1.2	
5	☐	1.000		3760775.36		A	0.4	
6	☐	1.000		3762470.67		A	1.0	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:01:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.895	1.895	1.67	118657	0.00	2	
Be	9	1	No Gas	2.067	2.067	0.62	11043	0.02	2	
V	51	2	He	1.908	1.908	2.90	23115	0.01	2	
Cr	52	2	He	2.065	2.065	3.21	34814	0.01	2	
Fe	56	2	He	197.513	197.513	1.95	2190505	0.01	200	
Se	78	2	He	1.949	1.949	16.47	511	0.38	2	
As	75	2	He	1.960	1.960	1.81	4290	0.05	2	
Ca	44	2	He	209.224	209.224	1.91	16580	1.26	200	
Na	23	2	He	179.091	179.091	2.62	584633	0.03	200	
Mg	24	2	He	199.018	199.018	1.20	206930	0.10	200	
K	39	2	He	193.888	193.888	2.22	377504	0.05	200	
Mn	55	2	He	1.909	1.909	4.45	17438	0.01	2	
Co	59	2	He	2.021	2.021	2.59	36813	0.01	2	
Ni	60	2	He	1.939	1.939	3.64	9770	0.02	2	
Cu	63	2	He	2.006	2.006	1.34	27341	0.01	2	
Zn	66	2	He	1.763	1.763	1.17	6662	0.03	2	
Al	27	2	He	4.438	4.438	8.94	8399	0.05	2	NewName Main CR1 Failed
B	11	1	No Gas	11.409	11.409	0.51	59725	0.02	10	
Al	27	1	No Gas	5.058	5.058	23.70	324183	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	9.790	9.790	5.94	847163	0.00	10	
Ag	107	1	No Gas	2.053	2.053	2.91	63993	0.00	2	
Cd	111	1	No Gas	1.936	1.936	2.57	11357	0.02	2	
Sr	88	1	No Gas	1.971	1.971	1.43	119401	0.00	2	
Mo	95	1	No Gas	1.993	1.993	0.58	22813	0.01	2	
Sn	118	1	No Gas	2.019	2.019	2.06	41840	0.00	2	
Sb	121	1	No Gas	2.050	2.050	3.16	54201	0.00	2	
Ba	137	1	No Gas	2.094	2.094	2.36	19358	0.01	2	
Tl	205	1	No Gas	1.962	1.962	2.67	101609	0.00	2	
Tl	203	1	No Gas	1.940	1.940	2.93	42515	0.00	2	
Pb	208	1	No Gas	2.000	2.000	1.25	146393	0.00	2	
U	238	1	No Gas	1.880	1.880	2.45	140987	0.00	2	
Ca	43	2	He	229.636	229.636	14.18	960	23.92	200	
Sb	121	2	He	2.031	2.031	2.42	25842	0.01	2	
Ti	47	2	He	1.981	1.981	11.96	770	0.26	200	
Cu	63	1	No Gas	2.009	2.009	1.76	52096	0.00	2	
Se	82	1	No Gas	2.138	2.138	15.02	1480	0.14	2	
Zr	90	1	No Gas	1.716	1.716	0.84	62934	0.00	2	
Zr	90	2	He	1.719	1.719	1.36	28170	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1419339	0.73	1429276	99.30	70	120	
Ge	72	2	He	1242761	0.21	1272004	97.70	70	120	
Ge	72	1	No Gas	4108742	0.48	4193658	97.98	70	120	
In	115	1	No Gas	4499407	0.55	4632313	97.13	70	120	
Bi	209	1	No Gas	3858031	0.91	3900842	98.90	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:03:28-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.800	4.800	3.90	177728	0.00	5	
Be	9	1	No Gas	5.092	5.092	2.41	27129	0.02	5	
V	51	2	He	4.987	4.987	2.38	54923	0.01	5	
Cr	52	2	He	5.148	5.148	2.82	70512	0.01	5	
Fe	56	2	He	507.118	507.118	1.68	5621051	0.01	500	
Se	78	2	He	5.359	5.359	4.03	1077	0.50	5	
As	75	2	He	5.044	5.044	1.78	10541	0.05	5	
Ca	44	2	He	508.014	508.014	2.53	36020	1.41	500	
Na	23	2	He	486.360	486.360	1.98	1102856	0.04	500	
Mg	24	2	He	507.802	507.802	0.62	529272	0.10	500	
K	39	2	He	500.419	500.419	1.74	752314	0.07	500	
Mn	55	2	He	5.144	5.144	1.80	45632	0.01	5	
Co	59	2	He	5.170	5.170	2.81	94618	0.01	5	
Ni	60	2	He	5.217	5.217	4.82	25304	0.02	5	
Cu	63	2	He	5.105	5.105	2.89	67171	0.01	5	
Zn	66	2	He	4.732	4.732	1.82	14054	0.03	5	
Al	27	2	He	6.977	6.977	12.22	10201	0.07	5	NewName2 Main CR1 Failed
B	11	1	No Gas	24.948	24.948	2.03	105057	0.02	25	
Al	27	1	No Gas	7.546	7.546	4.45	385917	0.00	5	NewName2 Main CR1 Failed
Si	28	1	No Gas	25.349	25.349	3.40	1003352	0.00	25	
Ag	107	1	No Gas	5.057	5.057	2.67	157511	0.00	5	
Cd	111	1	No Gas	5.011	5.011	2.29	29797	0.02	5	
Sr	88	1	No Gas	4.956	4.956	2.40	290736	0.00	5	
Mo	95	1	No Gas	4.914	4.914	1.79	56703	0.01	5	
Sn	118	1	No Gas	4.925	4.925	1.22	96087	0.01	5	
Sb	121	1	No Gas	5.058	5.058	4.18	131870	0.00	5	
Ba	137	1	No Gas	4.988	4.988	2.90	45706	0.01	5	
Tl	205	1	No Gas	4.882	4.882	2.90	255187	0.00	5	
Tl	203	1	No Gas	4.920	4.920	3.81	108769	0.00	5	
Pb	208	1	No Gas	4.970	4.970	1.37	364610	0.00	5	
U	238	1	No Gas	4.715	4.715	2.32	357038	0.00	5	
Ca	43	2	He	522.361	522.361	4.00	2074	25.19	500	
Sb	121	2	He	5.006	5.006	0.15	63519	0.01	5	
Ti	47	2	He	5.081	5.081	13.26	1964	0.26	5	
Cu	63	1	No Gas	5.264	5.264	3.64	130086	0.00	5	
Se	82	1	No Gas	5.565	5.565	9.85	2734	0.20	5	
Zr	90	1	No Gas	4.416	4.416	0.53	161788	0.00	5	
Zr	90	2	He	4.491	4.491	1.31	71473	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1418481	0.41	1429276	99.24	70	120	
Ge	72	2	He	1251410	0.56	1272004	98.38	70	120	
Ge	72	1	No Gas	4095475	0.95	4193658	97.66	70	120	
In	115	1	No Gas	4561365	0.28	4632313	98.47	70	120	
Bi	209	1	No Gas	3909055	1.98	3900842	100.21	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:08:16-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.089	-37.4	78478	1.5	0.5	
Be	9	1	No Gas	0.000	8289.8	45	48.4	0.5	
V	51	2	He	-0.030	-17.0	3366	1.3	2.5	
Cr	52	2	He	0.189	5.9	13490	1.9	2.5	
Fe	56	2	He	2.455	0.5	54143	1.1	100	
Se	78	2	He	-0.010	-1644.2	191	12.6	1	
As	75	2	He	0.014	123.1	394	9.9	2.5	
Ca	44	2	He	-8.570	-43.2	2610	8.0	100	
Na	23	2	He	-9.606	-17.4	273328	1.0	100	
Mg	24	2	He	0.830	16.3	2410	6.0	100	
K	39	2	He	1.743	45.8	147047	1.7	100	
Mn	55	2	He	0.122	12.2	2054	7.5	2.5	
Co	59	2	He	0.002	61.7	173	12.0	2.5	
Ni	60	2	He	0.090	32.2	1120	13.2	2.5	
Cu	63	2	He	0.050	2.6	2520	1.4	1	
Zn	66	2	He	0.402	19.5	3347	6.8	2.5	
Al	27	2	He	-1.188	-12.2	4608	1.4	5	
B	11	1	No Gas	0.435	28.4	23000	1.7	0.5	
Al	27	1	No Gas	-1.574	-4.8	156702	0.4	5	
Si	28	1	No Gas	14.742	5.8	903400	0.5	10	ICB Main CR1 Failed
Ag	107	1	No Gas	-0.009	-87.1	1307	16.7	2.5	
Cd	111	1	No Gas	0.003	100.0	20	88.8	1	
Sr	88	1	No Gas	-0.050	-1.8	6172	1.3	2.5	
Mo	95	1	No Gas	0.005	158.0	283	30.8	2.5	
Sn	118	1	No Gas	0.149	14.6	7896	5.7	5	
Sb	121	1	No Gas	0.013	45.8	1290	12.0	2.5	
Ba	137	1	No Gas	0.207	16.0	2620	10.5	2.5	
Tl	205	1	No Gas	-0.004	-24.1	440	11.8	1	
Tl	203	1	No Gas	-0.003	-117.4	223	38.1	1	
Pb	208	1	No Gas	0.009	55.3	3337	12.1	2.5	
U	238	1	No Gas	-0.002	-54.1	657	11.4	2.5	
Ca	43	2	He	-5.727	-166.1	77	45.8	100	
Sb	121	2	He	0.017	45.3	653	15.6	2.5	
Ti	47	2	He	0.001	4244.5	17	91.7	2.5	
Se	82	1	No Gas	-0.007	-4357.5	693	16.2	1	
Zr	90	1	No Gas	0.047	20.0	3264	10.3	2.5	
Zr	90	2	He	0.042	15.1	2287	3.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1423712	0.92	1429276	99.61	70	120	
Ge	72	2	He	1253200	1.20	1272004	98.52	70	120	
Ge	72	1	No Gas	4134034	1.24	4193658	98.58	70	120	
In	115	1	No Gas	4568974	0.84	4632313	98.63	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3883417	1.13	3900842	99.55	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	024ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:13:11-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.480	12.4	85069	1.8	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	1.7	173	1.7	0	ICSA Main CR1 Failed
V	51	2	He	0.251	6.3	6062	3.2	0	ICSA Main CR1 Failed
Cr	52	2	He	0.890	10.2	20889	4.3	0	ICSA Main CR1 Failed
Fe	56	2	He	97684.079	2.2	1045256864	1.8	0	
Se	78	2	He	0.230	87.7	224	15.0	0	ICSA Main CR1 Failed
As	75	2	He	0.406	11.6	1149	8.0	0	ICSA Main CR1 Failed
Ca	44	2	He	97400.813	2.7	6113865	2.4	0	
Na	23	2	He	98886.521	1.7	160792141	1.3	0	
Mg	24	2	He	98016.756	3.1	98804612	2.6	0	
K	39	2	He	99127.464	2.3	116893548	2.1	0	
Mn	55	2	He	1.612	4.7	14535	3.8	0	ICSA Main CR1 Failed
Co	59	2	He	0.958	3.3	17121	2.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.012	3.7	5301	2.6	0	ICSA Main CR1 Failed
Cu	63	2	He	0.740	0.5	11005	1.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.861	9.1	9140	6.2	0	ICSA Main CR1 Failed
Al	27	2	He	96850.558	2.6	64397232	2.4	0	
B	11	1	No Gas	1.478	14.4	25025	2.5	0	
Al	27	1	No Gas	93850.167	3.6	2270616446	3.0	0	
Si	28	1	No Gas	57.871	1.7	1277463	1.3	0	
Ag	107	1	No Gas	0.064	9.4	3234	5.6	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.747	2.3	4066	2.7	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.776	3.1	48577	1.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2027.583	3.2	21319685	2.3	0	
Sn	118	1	No Gas	0.289	6.7	9584	2.5	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.124	4.8	3971	3.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.502	10.6	4828	8.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.002	192.2	677	29.8	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.000	-1232.0	263	24.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.909	0.5	61483	0.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.005	32.1	1070	10.3	0	ICSA Main CR1 Failed
Ca	43	2	He	94430.858	3.2	346432	2.8	0	
Sb	121	2	He	0.104	9.0	1690	6.7	0	ICSA Main CR1 Failed
Ti	47	2	He	2006.321	2.3	745837	2.0	0	
Se	82	1	No Gas	0.265	28.2	753	4.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1344059	0.47	1429276	94.04	70	120	
Ge	72	2	He	1213939	0.68	1272004	95.44	70	120	
Ge	72	1	No Gas	3916870	0.66	4193658	93.40	70	120	
In	115	1	No Gas	4173916	1.09	4632313	90.10	70	120	
Bi	209	1	No Gas	3489017	0.27	3900842	89.44	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	025ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:15:46-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.133	2.070	2022671	1.84	100	95.1	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	92.834	2.604	495198	2.33	100	92.8	80	120	
V	51	2	He	101.875	2.674	1033892	2.51	100	101.9	80	120	
Cr	52	2	He	99.719	2.400	1139947	2.26	100	99.7	80	120	
Fe	56	2	He	107842.636	2.207	1170794436	2.08	100	107842.6	80	120	
Se	78	2	He	100.049	2.940	16430	2.79	100	100.0	80	120	
As	75	2	He	100.979	2.381	200867	2.25	100	101.0	80	120	
Ca	44	2	He	108210.421	2.336	6891111	2.16	100	108210.4	80	120	
Na	23	2	He	109623.357	1.516	180817577	1.33	100	109623.4	80	120	
Mg	24	2	He	108760.993	2.358	111238328	2.20	100	108761.0	80	120	
K	39	2	He	109746.647	1.717	131285581	1.53	100	109746.6	80	120	
Mn	55	2	He	101.621	2.031	868851	1.91	100	101.6	80	120	
Co	59	2	He	98.874	2.042	1778536	1.86	100	98.9	80	120	
Ni	60	2	He	95.466	2.388	443970	2.20	100	95.5	80	120	
Cu	63	2	He	96.417	2.093	1215735	1.90	100	96.4	80	120	
Zn	66	2	He	99.764	2.565	245199	2.36	100	99.8	80	120	
Al	27	2	He	96922.770	2.046	65384867	1.89	100	96922.8	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	472.271	1.406	1608606	1.00	100	472.3	80	120	
Al	27	1	No Gas	93412.022	2.785	2282884179	1.33	100	93412.0	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	551.729	2.717	6164279	0.97	100	551.7	80	120	
Ag	107	1	No Gas	98.463	3.258	2829036	1.80	100	98.5	80	120	
Cd	111	1	No Gas	98.013	3.668	542749	2.37	100	98.0	80	120	
Sr	88	1	No Gas	103.057	2.790	5464147	1.48	100	103.1	80	120	
Mo	95	1	No Gas	2104.159	3.214	22522010	1.75	100	2104.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	102.323	2.546	1764593	1.08	100	102.3	80	120	
Sb	121	1	No Gas	101.168	2.518	2531368	1.08	100	101.2	80	120	
Ba	137	1	No Gas	102.660	2.945	862287	1.74	100	102.7	80	120	
Tl	205	1	No Gas	92.774	2.861	4328624	2.13	100	92.8	80	120	
Tl	203	1	No Gas	93.347	2.115	1842290	1.28	100	93.3	80	120	
Pb	208	1	No Gas	103.223	2.471	6728891	1.95	100	103.2	80	120	
U	238	1	No Gas	103.605	2.519	7006618	2.21	100	103.6	80	120	
Ca	43	2	He	103890.379	3.143	386694	2.97	100	103890.4	80	120	
Sb	121	2	He	99.929	1.716	1239708	1.61	100	99.9	80	120	
Ti	47	2	He	2130.112	2.424	803398	2.24	100	2130.1	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.946	2.591	2253154	1.23	100	96.9	80	120	
Se	82	1	No Gas	99.700	4.124	36048	2.98	100	99.7	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1422546	0.41	1429276	99.53	70	120	
Ge	72	2	He	1231589	0.19	1272004	96.82	70	120	
Ge	72	1	No Gas	3957019	1.48	4193658	94.36	70	120	
In	115	1	No Gas	4249327	1.47	4632313	91.73	70	120	
Bi	209	1	No Gas	3498660	1.05	3900842	89.69	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	098CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T14:58:14-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	72289	0.00
Be	9	1	No Gas	15	222.22
V	51	2	He	4533	0.04
Cr	52	2	He	11555	0.00
Fe	56	2	He	24682	0.01
Se	78	2	He	207	4.32
As	75	2	He	394	2.36
Ca	44	2	He	2574	0.15
Na	23	2	He	286629	0.00
Mg	24	2	He	1247	0.80
K	39	2	He	145309	0.00
Mn	55	2	He	917	0.88
Co	59	2	He	100	10.00
Ni	60	2	He	853	0.76
Cu	63	2	He	2307	0.26
Zn	66	2	He	1990	0.31
Al	27	2	He	5865	0.02
B	11	1	No Gas	14663	0.01
Al	27	1	No Gas	193314	0.00
Si	28	1	No Gas	544084	0.00
Ag	107	1	No Gas	603	2.71
Sr	88	1	No Gas	7812	0.01
Mo	95	1	No Gas	187	3.31
Sn	118	1	No Gas	4668	0.15
Sb	121	1	No Gas	467	1.48
Ba	137	1	No Gas	897	0.52
Tl	205	1	No Gas	243	7.61
Tl	203	1	No Gas	113	31.46
Pb	208	1	No Gas	1947	0.47
U	238	1	No Gas	547	2.28
Ca	43	2	He	103	37.85
Sb	121	2	He	253	9.00
Ti	47	2	He	13	649.52
Cu	63	1	No Gas	4254	0.10

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	1303313	0.43

Calibration Blank Report

Ge	72	2	He	1374323	0.22
Ge	72	1	No Gas	4359458	0.33
In	115	1	No Gas	5185395	1.30
Bi	209	1	No Gas	4642203	0.54

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	099CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:00:44-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	9929	0.03
V	51	2	He	27813	0.00
Cr	52	2	He	37709	0.01
Fe	56	2	He	2490584	0.00
Se	78	2	He	560	0.71
As	75	2	He	4762	0.07
Ca	44	2	He	17091	0.01
Na	23	2	He	660366	0.00
Mg	24	2	He	240598	0.00
K	39	2	He	409560	0.00
Mn	55	2	He	20662	0.01
Co	59	2	He	42884	0.00
Ni	60	2	He	11515	0.02
Cu	63	2	He	31901	0.01
Zn	66	2	He	8016	0.04
Al	27	2	He	7599	0.05
B	11	1	No Gas	46529	0.00
Al	27	1	No Gas	266806	0.00
Si	28	1	No Gas	647336	0.00
Ag	107	1	No Gas	71176	0.00
Cd	111	1	No Gas	13929	0.07
Sr	88	1	No Gas	133138	0.00
Mo	95	1	No Gas	25328	0.02
Sn	118	1	No Gas	46880	0.01
Sb	121	1	No Gas	60063	0.01
Ba	137	1	No Gas	22453	0.01
Tl	205	1	No Gas	124292	0.00
Tl	203	1	No Gas	52668	0.01
Pb	208	1	No Gas	177135	0.00
U	238	1	No Gas	170412	0.00
Ca	43	2	He	970	2.05
Sb	121	2	He	27609	0.01
Cu	63	1	No Gas	55777	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1293096	1.59	1303313	99.22	70	120	
Ge	72	2	He	1373553	0.37	1374323	99.94	70	120	
Ge	72	1	No Gas	4356547	0.31	4359458	99.93	70	120	

Calibration Standard Report

In	115	1	No Gas	5125227	0.68	5185395	98.84	70	120	
Bi	209	1	No Gas	4601018	0.33	4642203	99.11	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	100CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:03:15-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	25079	0.00
V	51	2	He	59937	0.00
Cr	52	2	He	76343	0.00
Fe	56	2	He	6051916	0.00
Se	78	2	He	1037	0.36
As	75	2	He	10765	0.03
Ca	44	2	He	36802	0.00
Na	23	2	He	1206386	0.00
Mg	24	2	He	575627	0.00
K	39	2	He	783266	0.00
Mn	55	2	He	48435	0.01
Co	59	2	He	103074	0.00
Ni	60	2	He	27585	0.01
Cu	63	2	He	74696	0.00
Zn	66	2	He	14885	0.02
Al	27	2	He	10387	0.03
B	11	1	No Gas	94042	0.00
Al	27	1	No Gas	346437	0.00
Si	28	1	No Gas	788342	0.00
Ag	107	1	No Gas	176036	0.00
Cd	111	1	No Gas	33118	0.00
Sr	88	1	No Gas	316180	0.00
Mo	95	1	No Gas	62171	0.00
Sn	118	1	No Gas	108710	0.00
Sb	121	1	No Gas	148399	0.00
Ba	137	1	No Gas	53499	0.00
Tl	205	1	No Gas	310001	0.00
Tl	203	1	No Gas	131455	0.00
Pb	208	1	No Gas	441414	0.00
U	238	1	No Gas	426582	0.00
Ca	43	2	He	2180	0.36
Sb	121	2	He	67864	0.00
Cu	63	1	No Gas	131091	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1283534	0.25	1303313	98.48	70	120	
Ge	72	2	He	1355522	1.24	1374323	98.63	70	120	
Ge	72	1	No Gas	4362440	0.82	4359458	100.07	70	120	

Calibration Standard Report

In	115	1	No Gas	5072596	0.78	5185395	97.82	70	120	
Bi	209	1	No Gas	4628664	0.96	4642203	99.71	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	101CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:05:45-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	49743	0.01
V	51	2	He	119173	0.00
Cr	52	2	He	142080	0.00
Fe	56	2	He	12368342	0.00
Se	78	2	He	1983	0.15
As	75	2	He	22219	0.00
Ca	44	2	He	74780	0.00
Na	23	2	He	2190193	0.00
Mg	24	2	He	1188254	0.00
K	39	2	He	1482655	0.00
Mn	55	2	He	97559	0.00
Co	59	2	He	211716	0.00
Ni	60	2	He	55830	0.00
Cu	63	2	He	148798	0.00
Zn	66	2	He	29796	0.01
Al	27	2	He	14541	0.01
B	11	1	No Gas	174559	0.00
Al	27	1	No Gas	491297	0.00
Si	28	1	No Gas	1040450	0.00
Ag	107	1	No Gas	351689	0.00
Cd	111	1	No Gas	67082	0.00
Sr	88	1	No Gas	627105	0.00
Mo	95	1	No Gas	125030	0.00
Sn	118	1	No Gas	219192	0.00
Sb	121	1	No Gas	302258	0.00
Ba	137	1	No Gas	104683	0.00
Tl	205	1	No Gas	624128	0.00
Tl	203	1	No Gas	263846	0.00
Pb	208	1	No Gas	891156	0.00
U	238	1	No Gas	868652	0.00
Ca	43	2	He	4264	0.12
Sb	121	2	He	137943	0.00
Cu	63	1	No Gas	259902	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1275635	0.12	1303313	97.88	70	120	
Ge	72	2	He	1352999	0.45	1374323	98.45	70	120	
Ge	72	1	No Gas	4322697	0.93	4359458	99.16	70	120	

Calibration Standard Report

In	115	1	No Gas	5131138	1.14	5185395	98.95	70	120	
Bi	209	1	No Gas	4636494	0.65	4642203	99.88	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	102CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:08:14-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	487427	0.00
V	51	2	He	1122489	0.00
Cr	52	2	He	1285243	0.00
Fe	56	2	He	121048588	0.00
Se	78	2	He	17279	0.01
As	75	2	He	210665	0.00
Ca	44	2	He	697328	0.00
Na	23	2	He	19007518	0.00
Mg	24	2	He	11599054	0.00
K	39	2	He	13151540	0.00
Mn	55	2	He	943695	0.00
Co	59	2	He	2062013	0.00
Ni	60	2	He	533731	0.00
Cu	63	2	He	1442890	0.00
Zn	66	2	He	271884	0.00
Al	27	2	He	78817	0.00
B	11	1	No Gas	1574453	0.00
Al	27	1	No Gas	2637159	0.00
Si	28	1	No Gas	5413187	0.00
Ag	107	1	No Gas	3368376	0.00
Cd	111	1	No Gas	650561	0.00
Sr	88	1	No Gas	6074095	0.00
Mo	95	1	No Gas	1229887	0.00
Sn	118	1	No Gas	2091126	0.00
Sb	121	1	No Gas	2926320	0.00
Ba	137	1	No Gas	1013633	0.00
Tl	205	1	No Gas	6140256	0.00
Tl	203	1	No Gas	2587898	0.00
Pb	208	1	No Gas	8588625	0.00
U	238	1	No Gas	8699904	0.00
Ca	43	2	He	41178	0.00
Sb	121	2	He	1358294	0.00
Cu	63	1	No Gas	2451581	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1229032	0.24	1303313	94.30	70	120	
Ge	72	2	He	1343954	1.28	1374323	97.79	70	120	
Ge	72	1	No Gas	4288392	0.85	4359458	98.37	70	120	

Calibration Standard Report

In	115	1	No Gas	5041006	0.23	5185395	97.22	70	120	
Bi	209	1	No Gas	4488257	1.33	4642203	96.68	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	103CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:10:46-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	955455	0.00
V	51	2	He	2254655	0.00
Cr	52	2	He	2558409	0.00
Fe	56	2	He	241097883	0.00
Se	78	2	He	34000	0.00
As	75	2	He	421045	0.00
Ca	44	2	He	1384564	0.00
Na	23	2	He	37673615	0.00
Mg	24	2	He	22954084	0.00
K	39	2	He	25647875	0.00
Mn	55	2	He	1878014	0.00
Co	59	2	He	4058702	0.00
Ni	60	2	He	1048069	0.00
Cu	63	2	He	2850281	0.00
Zn	66	2	He	534120	0.00
Al	27	2	He	148670	0.00
B	11	1	No Gas	3099879	0.00
Al	27	1	No Gas	4997677	0.00
Si	28	1	No Gas	10082694	0.00
Ag	107	1	No Gas	6611305	0.00
Cd	111	1	No Gas	1290978	0.00
Sr	88	1	No Gas	11988085	0.00
Mo	95	1	No Gas	2458479	0.00
Sn	118	1	No Gas	4103949	0.00
Sb	121	1	No Gas	5789795	0.00
Ba	137	1	No Gas	2001738	0.00
Tl	205	1	No Gas	12105944	0.00
Tl	203	1	No Gas	5103375	0.00
Pb	208	1	No Gas	16978854	0.00
U	238	1	No Gas	17346071	0.00
Ca	43	2	He	80107	0.00
Sb	121	2	He	2756500	0.00
Cu	63	1	No Gas	4739523	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1176332	1.43	1303313	90.26	70	120	
Ge	72	2	He	1341851	1.33	1374323	97.64	70	120	
Ge	72	1	No Gas	4218913	0.63	4359458	96.78	70	120	

Calibration Standard Report

In	115	1	No Gas	4907591	1.20	5185395	94.64	70	120	
Bi	209	1	No Gas	4429482	0.64	4642203	95.42	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	105_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:16:15-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.425	2.272	1785367	2.26	100	99.4	90	110	
Be	9	1	No Gas	105.260	2.022	500753	1.64	100	105.3	90	110	
V	51	2	He	104.734	1.364	1172678	1.78	100	104.7	90	110	
Cr	52	2	He	104.839	1.743	1336800	2.10	100	104.8	90	110	
Fe	56	2	He	10066.250	0.999	120573595	1.40	10000	100.7	90	110	
Se	78	2	He	104.590	1.143	17783	1.50	100	104.6	90	110	
As	75	2	He	104.457	1.357	218460	1.55	100	104.5	90	110	
Ca	44	2	He	10030.887	2.217	691413	2.58	10000	100.3	90	110	
Na	23	2	He	10060.637	0.895	18956823	1.19	10000	100.6	90	110	
Mg	24	2	He	10106.019	0.811	11539333	1.20	10000	101.1	90	110	
K	39	2	He	10186.511	1.716	13089037	1.99	10000	101.9	90	110	
Mn	55	2	He	104.796	1.216	978191	1.57	100	104.8	90	110	
Co	59	2	He	104.906	1.217	2120334	1.38	100	104.9	90	110	
Ni	60	2	He	104.368	1.068	545255	1.38	100	104.4	90	110	
Cu	63	2	He	104.439	0.676	1482087	0.97	100	104.4	90	110	
Zn	66	2	He	103.728	0.840	276727	1.08	100	103.7	90	110	
Al	27	2	He	105.689	1.910	81046	1.80	100	105.7	90	110	
B	11	1	No Gas	485.906	1.746	1493788	1.16	500	97.2	90	110	
Al	27	1	No Gas	104.838	2.147	2723200	2.03	100	104.8	90	110	
Si	28	1	No Gas	502.515	1.920	5357677	1.65	500	100.5	90	110	
Ag	107	1	No Gas	103.027	2.053	3405905	2.00	100	103.0	90	110	
Cd	111	1	No Gas	102.978	1.457	663196	1.37	100	103.0	90	110	
Sr	88	1	No Gas	103.164	2.271	6179183	2.04	100	103.2	90	110	
Mo	95	1	No Gas	101.107	1.905	1238307	1.77	100	101.1	90	110	
Sn	118	1	No Gas	101.387	2.019	2082056	2.05	100	101.4	90	110	
Sb	121	1	No Gas	103.399	1.616	3003953	1.48	100	103.4	90	110	
Ba	137	1	No Gas	103.747	2.200	1037345	2.12	100	103.7	90	110	
Tl	205	1	No Gas	106.777	1.167	6485777	1.83	100	106.8	90	110	
Tl	203	1	No Gas	106.372	1.641	2723809	2.31	100	106.4	90	110	
Pb	208	1	No Gas	104.162	1.312	8869825	1.98	100	104.2	90	110	
U	238	1	No Gas	97.719	1.422	8485518	2.09	100	97.7	90	110	
Ca	43	2	He	10247.245	2.857	41018	3.03	10000	102.5	90	110	
Sb	121	2	He	103.052	0.470	1405867	0.66	100	103.1	90	110	
Ti	47	2	He	102.723	1.503	41880	1.73	100	102.7	90	110	
Cu	63	1	No Gas	104.690	2.861	2502815	2.55	100	104.7	90	110	
Se	82	1	No Gas	104.668	4.572	41103	4.17	100	104.7	90	110	
Zr	90	1	No Gas	77.750	2.376	2974501	2.10	100	77.7	90	110	ICV Main CR1 Failed
Zr	90	2	He	76.213	0.823	1307058	0.71	100	76.2	90	1100	ICV Main CR1 Failed

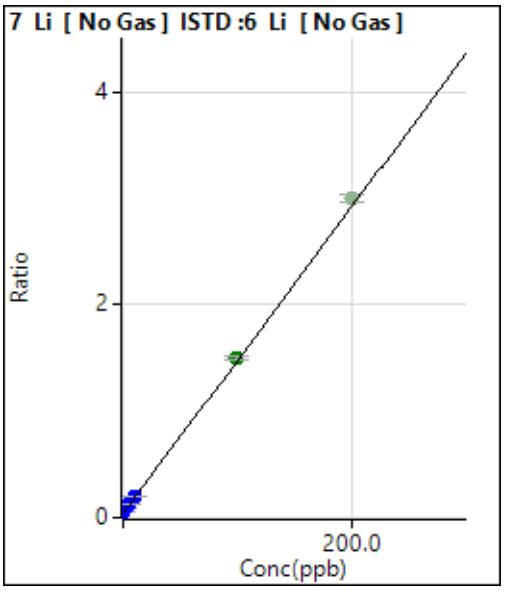
QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199906	0.57	1303313	92.07	70	120	
Ge	72	2	He	1332268	0.44	1374323	96.94	70	120	
Ge	72	1	No Gas	4237943	0.40	4359458	97.21	70	120	
In	115	1	No Gas	4914538	0.41	5185395	94.78	70	120	
Bi	209	1	No Gas	4443890	0.68	4642203	95.73	70	120	

Calibration for 105_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

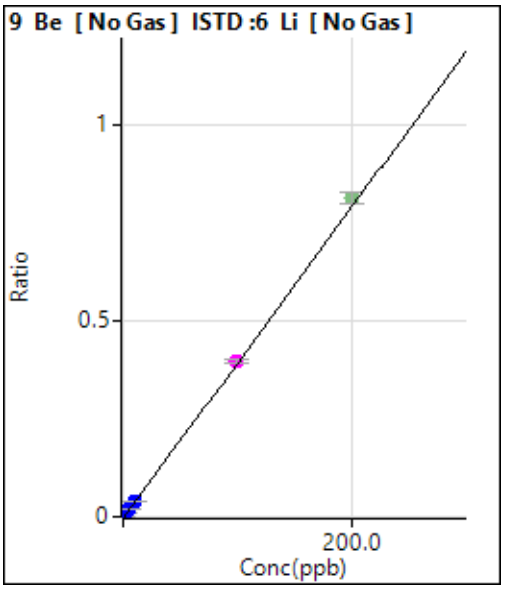
Level	Standard Data File	Sample Name	Acq. Date-Time
1	098CALB.d	CAL BLK	5/29/2024 2:58:14 PM
2	099CALS.d	2/10/200	5/29/2024 3:00:44 PM
3	100CALS.d	5/25/500	5/29/2024 3:03:15 PM
4	101CALS.d	10/50/100	5/29/2024 3:05:45 PM
5	102CALS.d	100/500/10K	5/29/2024 3:08:14 PM
6	103CALS.d	200/1000/20K	5/29/2024 3:10:46 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72289.23	0.0555	P	0.9	
2	☐	2.000	2.065	110191.24	0.0852	P	1.3	3.3
3	☐	5.000	5.039	164368.58	0.1281	P	0.9	0.8
4	☐	10.000	10.112	256607.64	0.2012	P	1.0	1.1
5	☐	100.000	99.986	1838697.73	1.4960	A	2.4	0.0
6	☑	200.000		3531287.66	3.0028	A	3.0	

y = 0.0144 * x + 0.0555
R = 1.0000
DL = 0.09876 ppb
BEC = 3.85 ppb

Weight: <None>
Min Conc: <None>

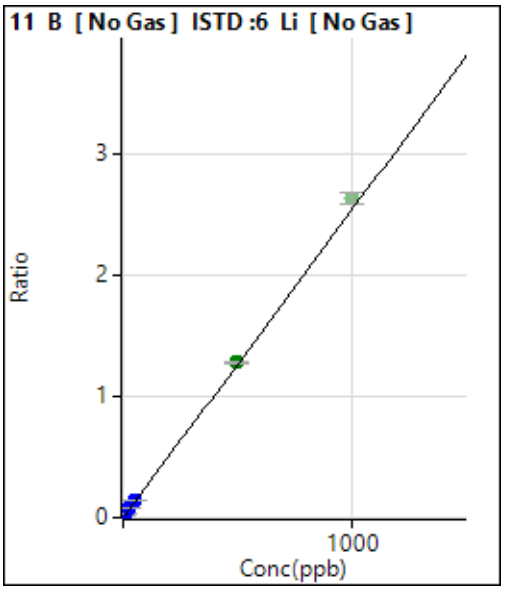


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15.00	0.0000	P	33.6	
2	☐	2.000	1.934	9928.53	0.0077	P	2.9	-3.3
3	☐	5.000	4.925	25078.79	0.0195	P	1.2	-1.5
4	☐	10.000	9.832	49743.44	0.0390	P	2.5	-1.7
5	☐	100.000	100.022	487426.80	0.3966	M	2.2	0.0
6	☑	200.000		955455.04	0.8125	A	3.5	

y = 0.0040 * x + 1.1517E-005
R = 1.0000
DL = 0.002925 ppb
BEC = 0.002905 ppb

Weight: <None>
Min Conc: <None>

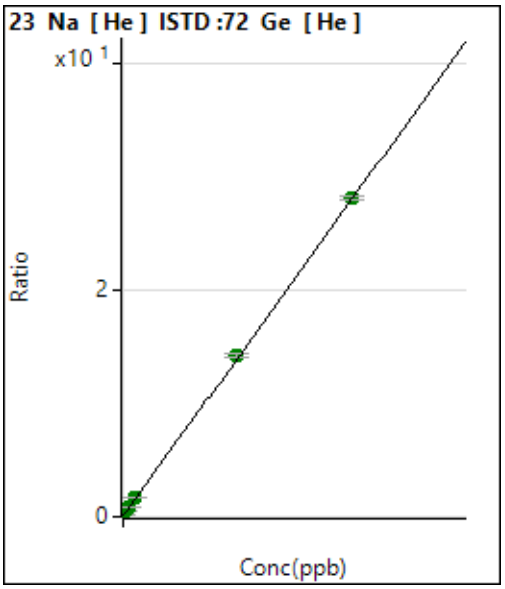
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14662.63	0.0113	P	1.4	
2	☐	10.000	9.745	46529.34	0.0360	P	3.2	-2.6
3	☐	25.000	24.426	94042.30	0.0733	P	1.2	-2.3
4	☐	50.000	49.463	174559.21	0.1368	P	1.1	-1.1
5	☐	500.000	500.087	1574453.46	1.2810	A	1.9	0.0
6	☑	1000.000		3099878.60	2.6361	A	3.5	

y = 0.0025 * x + 0.0113
R = 1.0000
DL = 0.1854 ppb
BEC = 4.431 ppb

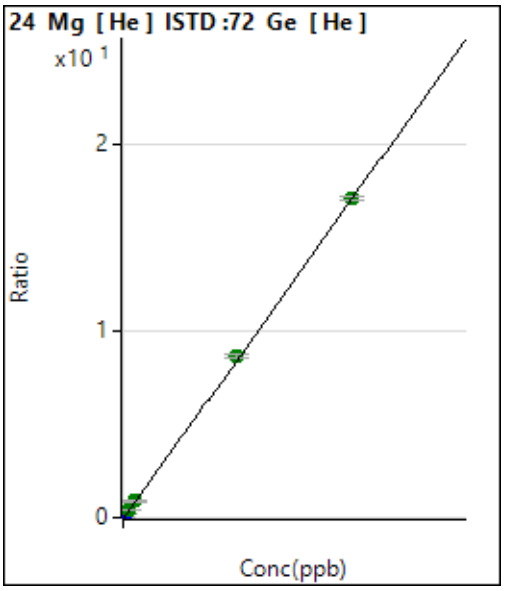
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286629.47	0.2086	P	0.5	
2	☐	200.000	195.343	660366.16	0.4808	A	1.2	-2.3
3	☐	500.000	489.104	1206386.47	0.8902	A	2.6	-2.2
4	☐	1000.000	1011.957	2190193.09	1.6188	A	1.4	1.2
5	☐	10000.00	10001.04	19007518.05	14.1457	A	2.6	0.0
6	☐	20000.00	19999.19	37673615.27	28.0789	A	1.8	0.0

y = 0.0014 * x + 0.2086
R = 1.0000
DL = 2.382 ppb
BEC = 149.7 ppb

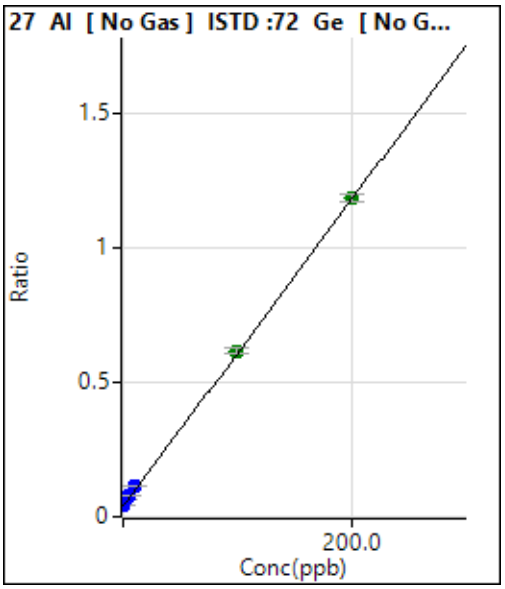
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0009	P	10.2	
2	☐	200.000	203.355	240598.23	0.1752	P	2.6	1.7
3	☐	500.000	494.607	575627.47	0.4248	A	3.2	-1.1
4	☐	1000.000	1023.806	1188254.49	0.8783	A	2.3	2.4
5	☐	10000.00	10072.23	11599054.41	8.6323	A	2.6	0.7
6	☐	20000.00	19962.79	22954083.82	17.1080	A	1.7	-0.2

y = 8.5695E-004 * x + 9.0729E-004
R = 1.0000
DL = 0.3251 ppb
BEC = 1.059 ppb

Weight: <None>
Min Conc: <None>

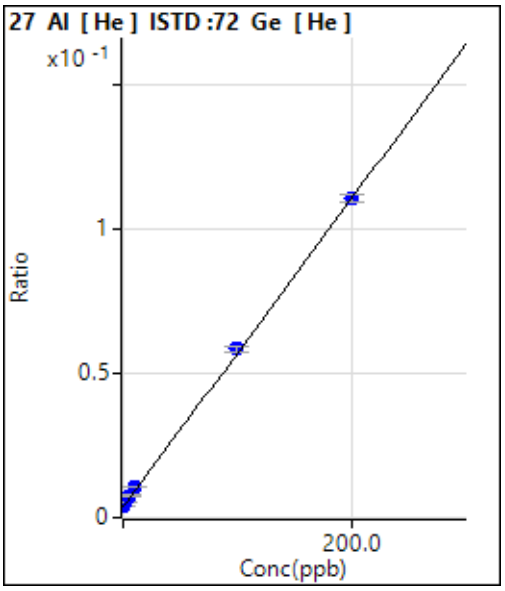


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193314.14	0.0443	P	1.0	
2	☐	2.000	2.961	266805.69	0.0612	P	1.5	48.1
3	☐	5.000	6.146	346436.57	0.0794	P	0.3	22.9
4	☐	10.000	12.150	491296.58	0.1137	P	2.8	21.5
5	☐	100.000	100.019	2637158.81	0.6151	A	3.7	0.0
6	☐	200.000	199.845	4997676.59	1.1847	A	2.7	-0.1

y = 0.0057 * x + 0.0443
R = 1.0000
DL = 0.2301 ppb
BEC = 7.771 ppb

Weight: <None>
Min Conc: <None>

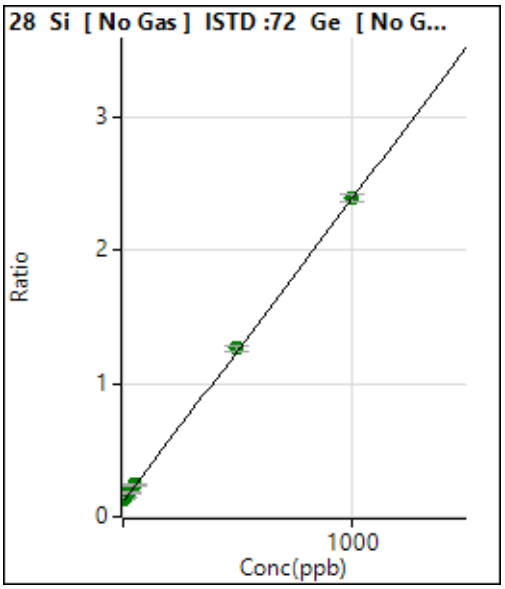
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5864.66	0.0043	P	1.5	
2	☐	2.000	2.364	7598.86	0.0055	P	3.7	18.2
3	☐	5.000	6.343	10387.35	0.0077	P	2.4	26.9
4	☐	10.000	12.107	14541.15	0.0107	P	1.6	21.1
5	☐	100.000	101.632	78817.47	0.0587	P	3.4	1.6
6	☐	200.000	199.042	148669.78	0.1108	P	2.5	-0.5

y = 5.3521E-004 * x + 0.0043
R = 0.9999
DL = 0.3498 ppb
BEC = 7.973 ppb

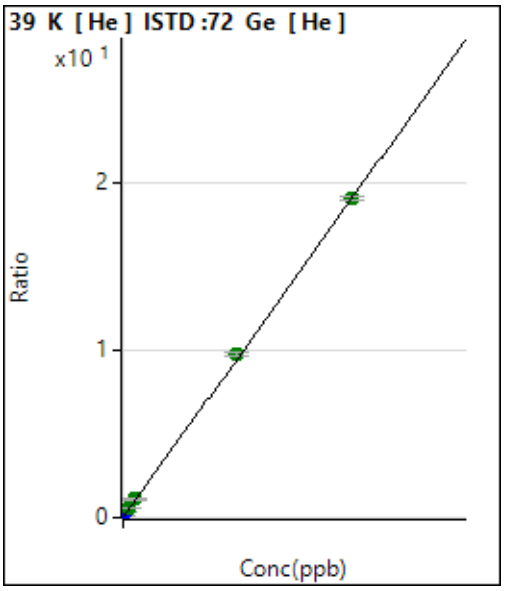
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	544083.64	0.1248	A	0.1	
2	☐	10.000	10.489	647336.42	0.1486	A	0.2	4.9
3	☐	25.000	24.661	788341.94	0.1807	A	1.2	-1.4
4	☐	50.000	51.129	1040449.83	0.2407	A	3.1	2.3
5	☐	500.000	501.773	5413186.59	1.2626	A	3.7	0.4
6	☐	1000.000	999.060	10082694.22	2.3901	A	2.6	-0.1

y = 0.0023 * x + 0.1248
R = 1.0000
DL = 0.2234 ppb
BEC = 55.04 ppb

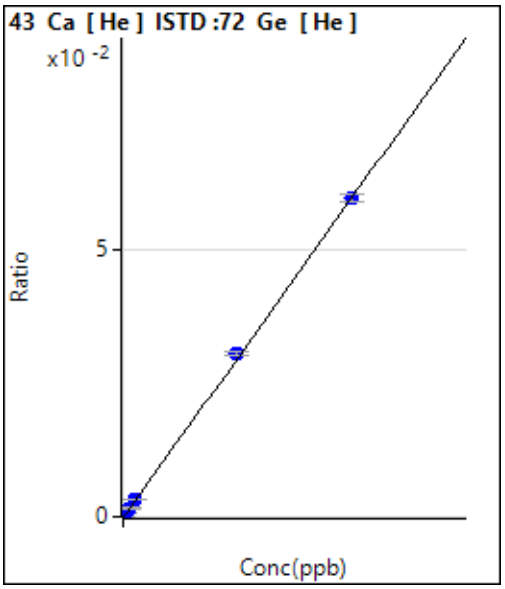
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145309.32	0.1057	P	0.4	
2	☐	200.000	201.719	409560.47	0.2982	P	2.4	0.9
3	☐	500.000	494.949	783265.98	0.5779	A	2.8	-1.0
4	☐	1000.000	1037.794	1482655.19	1.0959	A	2.1	3.8
5	☐	10000.00	10147.32	13151539.80	9.7869	A	1.7	1.5
6	☐	20000.00	19924.55	25647874.62	19.1151	A	1.4	-0.4

y = 9.5407E-004 * x + 0.1057
R = 1.0000
DL = 1.325 ppb
BEC = 110.8 ppb

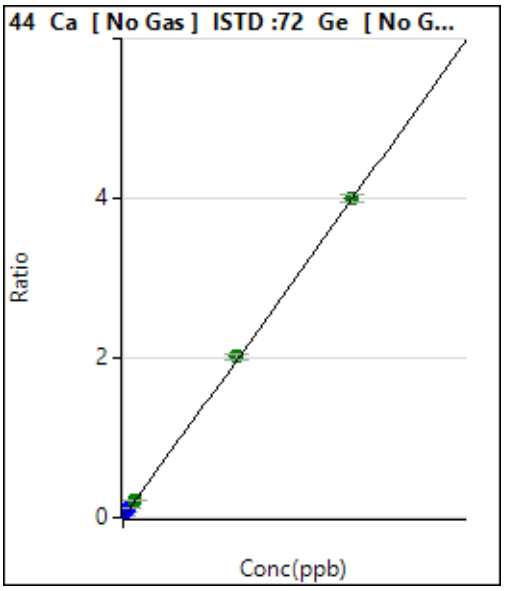
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0001	P	39.1	
2	☐	200.000	210.631	970.06	0.0007	P	20.1	5.3
3	☐	500.000	511.884	2180.21	0.0016	P	8.8	2.4
4	☐	1000.000	1026.628	4264.08	0.0032	P	5.7	2.7
5	☐	10000.00	10200.36	41177.96	0.0306	P	2.6	2.0
6	☐	20000.00	19898.08	80107.44	0.0597	P	2.8	-0.5

y = 2.9971E-006 * x + 7.5183E-005
R = 0.9999
DL = 29.4 ppb
BEC = 25.09 ppb

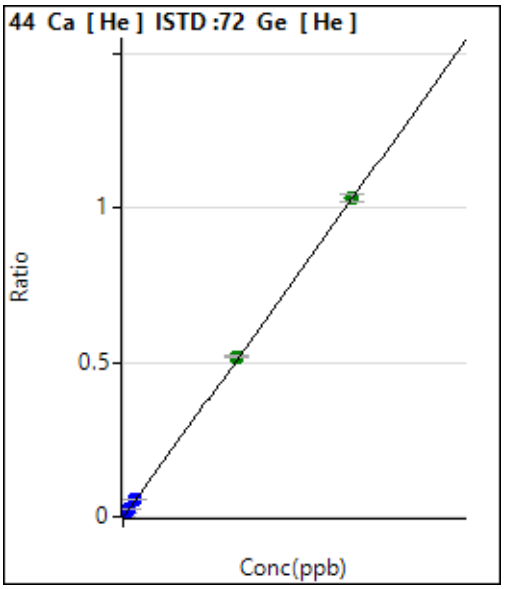
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77170.00	0.0177	P	2.5	
2	☐	200.000	221.279	269276.44	0.0618	P	1.5	10.6
3	☐	500.000	538.615	545546.30	0.1251	P	1.9	7.7
4	☐	1000.000	1024.768	959333.55	0.2220	A	3.5	2.5
5	☐	10000.00	10033.38	8651430.08	2.0177	A	3.1	0.3
6	☐	20000.00	19980.89	16876914.75	4.0006	A	2.2	-0.1

y = 1.9934E-004 * x + 0.0177
R = 1.0000
DL = 6.608 ppb
BEC = 88.8 ppb

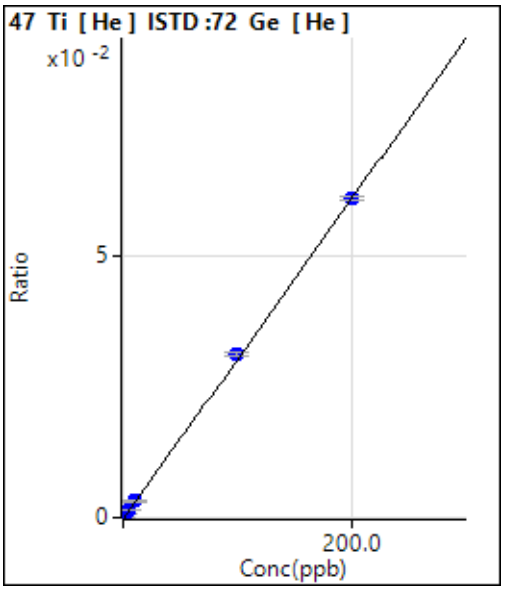
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2573.61	0.0019	P	3.7	
2	☐	200.000	205.056	17090.77	0.0124	P	2.0	2.5
3	☐	500.000	490.452	36802.22	0.0272	P	2.1	-1.9
4	☐	1000.000	1035.868	74780.49	0.0553	P	1.3	3.6
5	☐	10000.00	10030.25	697328.45	0.5189	A	1.2	0.3
6	☐	20000.00	19983.26	1384564.36	1.0320	A	2.0	-0.1

y = 5.1548E-005 * x + 0.0019
R = 1.0000
DL = 4.012 ppb
BEC = 36.33 ppb

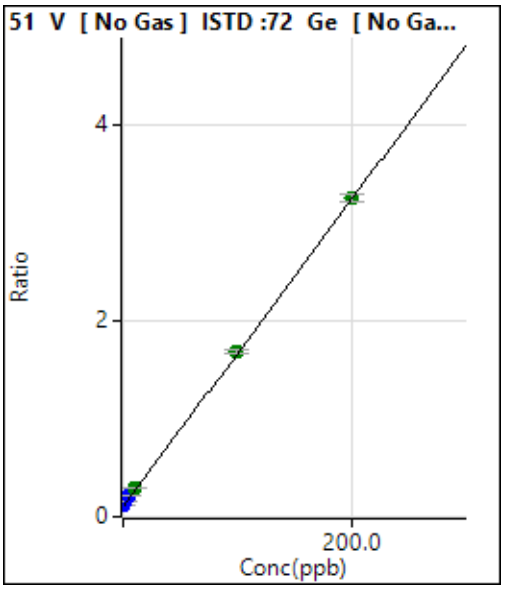
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	2.094	893.38	0.0007	P	9.0	4.7
3	☐	5.000	5.066	2113.54	0.0016	P	2.9	1.3
4	☐	10.000	10.213	4240.72	0.0031	P	1.9	2.1
5	☐	100.000	101.496	41736.19	0.0311	P	2.2	1.5
6	☐	200.000	199.239	81793.78	0.0610	P	1.2	-0.4

y = 3.0592E-004 * x + 9.6904E-006
R = 1.0000
DL = 0.0823 ppb
BEC = 0.03168 ppb

Weight: <None>
Min Conc: <None>

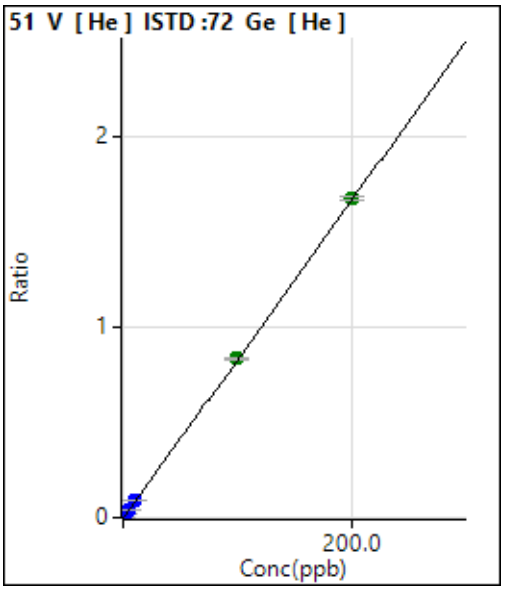


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	517978.49	0.1188	P	1.4	
2	☐	2.000	2.662	699471.71	0.1606	P	0.8	33.1
3	☐	5.000	6.103	935752.14	0.2145	P	1.7	22.1
4	☐	10.000	11.575	1298192.99	0.3003	A	1.2	15.8
5	☐	100.000	99.971	7231859.55	1.6866	A	2.3	0.0
6	☐	200.000	199.902	13725968.25	3.2537	A	2.0	0.0

y = 0.0157 * x + 0.1188
R = 1.0000
DL = 0.3272 ppb
BEC = 7.577 ppb

Weight: <None>
Min Conc: <None>

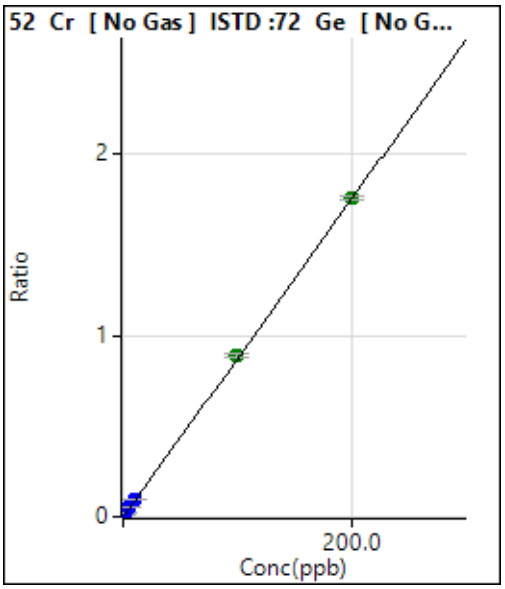
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4532.99	0.0033	P	1.6	
2	☐	2.000	2.025	27813.44	0.0203	P	1.7	1.2
3	☐	5.000	4.888	59936.52	0.0442	P	1.9	-2.2
4	☐	10.000	10.126	119172.53	0.0881	P	1.9	1.3
5	☐	100.000	99.380	1122488.88	0.8354	A	1.9	-0.6
6	☐	200.000	200.306	2254655.47	1.6804	A	1.3	0.2

y = 0.0084 * x + 0.0033
R = 1.0000
DL = 0.01888 ppb
BEC = 0.3939 ppb

Weight: <None>
Min Conc: <None>

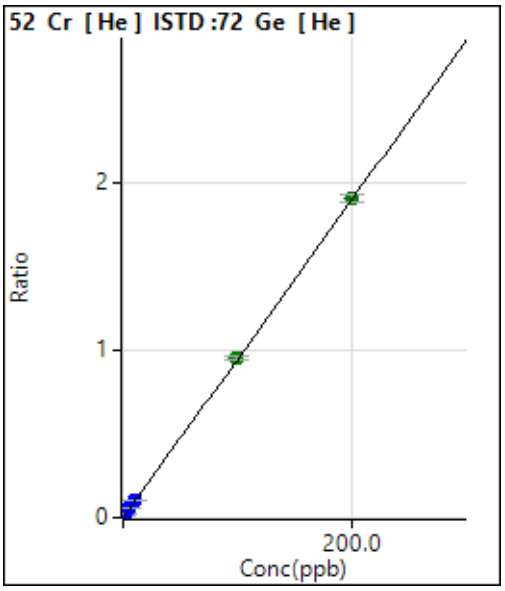


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24051.28	0.0055	P	0.9	
2	☐	2.000	2.112	104774.64	0.0241	P	0.5	5.6
3	☐	5.000	5.125	220217.89	0.0505	P	2.2	2.5
4	☐	10.000	10.375	417313.69	0.0966	P	2.1	3.7
5	☐	100.000	100.629	3809990.36	0.8885	A	1.8	0.6
6	☐	200.000	199.662	7414303.64	1.7575	A	1.5	-0.2

y = 0.0088 * x + 0.0055
R = 1.0000
DL = 0.01764 ppb
BEC = 0.6287 ppb

Weight: <None>
Min Conc: <None>

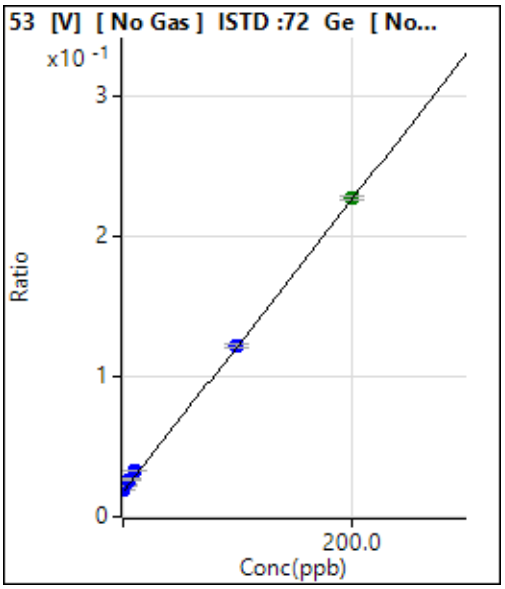
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.05	0.0084	P	0.8	
2	☐	2.000	2.007	37708.50	0.0275	P	3.2	0.4
3	☐	5.000	5.050	76343.33	0.0563	P	3.2	1.0
4	☐	10.000	10.179	142080.10	0.1050	P	0.6	1.8
5	☐	100.000	99.902	1285243.03	0.9565	A	2.4	-0.1
6	☐	200.000	200.039	2558408.92	1.9068	A	2.4	0.0

y = 0.0095 * x + 0.0084
R = 1.0000
DL = 0.02082 ppb
BEC = 0.8859 ppb

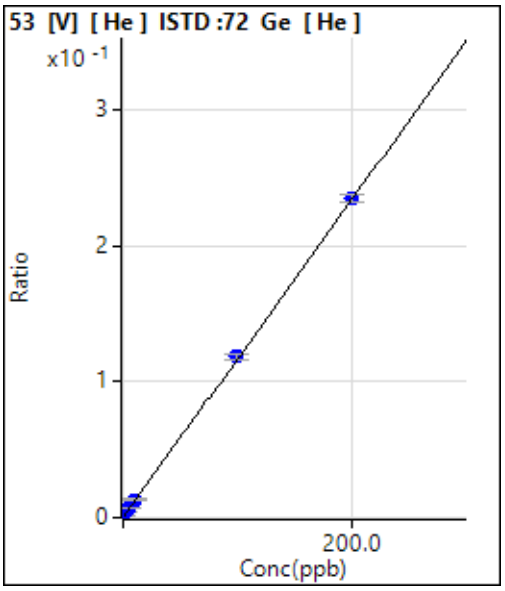
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83088.63	0.0191	P	1.4	
2	☐	2.000	3.432	98592.51	0.0226	P	0.9	71.6
3	☐	5.000	7.256	116073.57	0.0266	P	2.4	45.1
4	☐	10.000	12.910	140450.29	0.0325	P	1.1	29.1
5	☐	100.000	98.982	523398.29	0.1221	P	2.3	-1.0
6	☐	200.000	200.293	959675.51	0.2275	A	1.6	0.1

y = 0.0010 * x + 0.0191
R = 0.9999
DL = 0.7918 ppb
BEC = 18.32 ppb

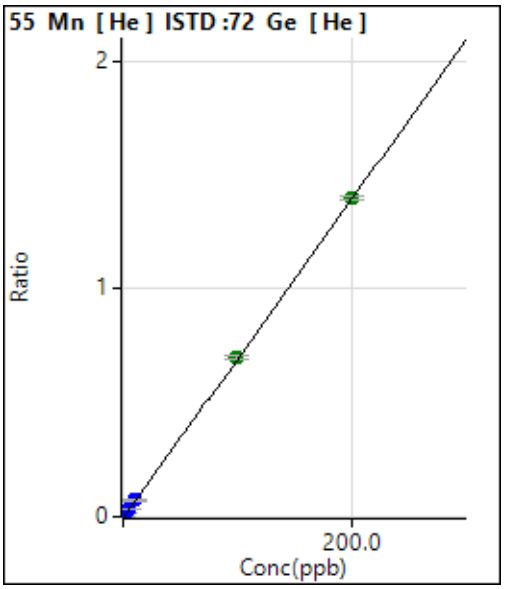
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2040.18	0.0015	P	12.2	
2	☐	2.000	2.147	5477.85	0.0040	P	5.1	7.3
3	☐	5.000	5.010	9933.73	0.0073	P	0.8	0.2
4	☐	10.000	10.162	18048.75	0.0133	P	5.6	1.6
5	☐	100.000	100.029	158763.74	0.1182	P	2.7	0.0
6	☐	200.000	199.976	314950.89	0.2347	P	2.9	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.4654 ppb
BEC = 1.273 ppb

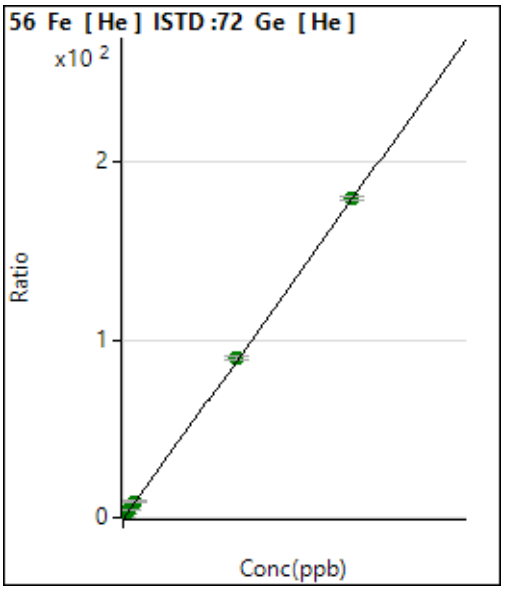
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.71	0.0007	P	8.0	
2	☐	2.000	2.054	20662.40	0.0150	P	2.4	2.7
3	☐	5.000	5.011	48435.26	0.0357	P	3.9	0.2
4	☐	10.000	10.206	97559.34	0.0721	P	1.6	2.1
5	☐	100.000	100.238	943695.17	0.7023	A	2.3	0.2
6	☐	200.000	199.870	1878014.40	1.3997	A	1.1	-0.1

y = 0.0070 * x + 6.6703E-004
R = 1.0000
DL = 0.02299 ppb
BEC = 0.09529 ppb

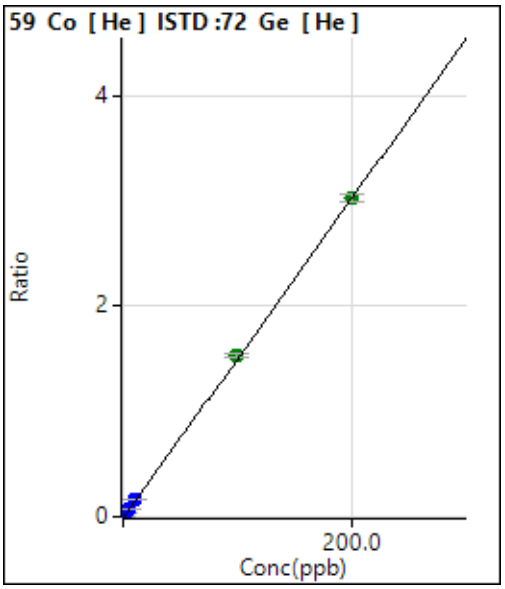
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24682.36	0.0180	P	2.7	
2	☐	200.000	199.740	2490583.92	1.8134	A	2.6	-0.1
3	☐	500.000	494.794	6051915.74	4.4655	A	2.5	-1.0
4	☐	1000.000	1015.032	12368342.31	9.1417	A	1.8	1.5
5	☐	10000.00	10019.84	121048588.2	90.0830	A	2.0	0.2
6	☐	20000.00	19989.46	241097883.0	179.696	A	1.5	-0.1

y = 0.0090 * x + 0.0180
R = 1.0000
DL = 0.1618 ppb
BEC = 1.998 ppb

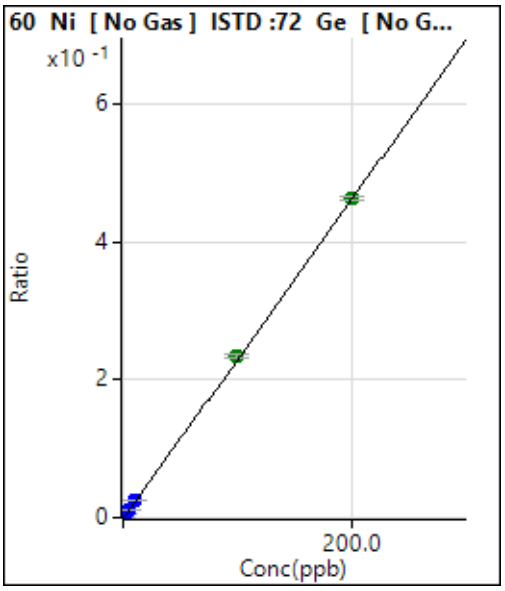
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	10.1	
2	☐	2.000	2.053	42883.69	0.0312	P	2.3	2.7
3	☐	5.000	5.008	103074.24	0.0760	P	1.4	0.2
4	☐	10.000	10.311	211716.47	0.1565	P	1.3	3.1
5	☐	100.000	101.149	2062013.41	1.5345	A	1.7	1.1
6	☐	200.000	199.409	4058702.33	3.0251	A	2.4	-0.3

y = 0.0152 * x + 7.2767E-005
R = 1.0000
DL = 0.001448 ppb
BEC = 0.004797 ppb

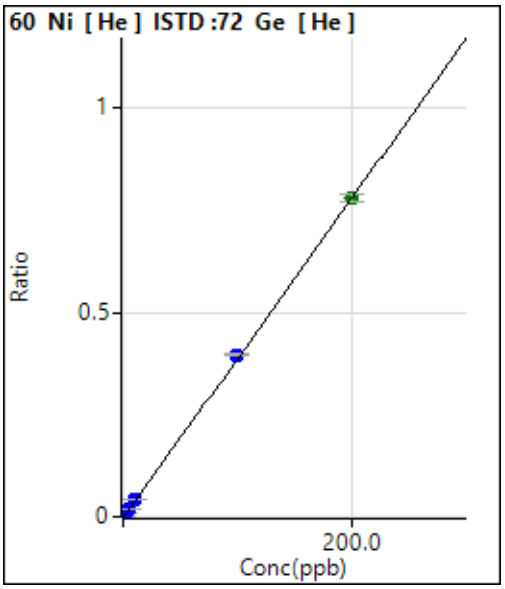
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1850.17	0.0004	P	10.4	
2	☐	2.000	2.046	22508.72	0.0052	P	4.6	2.3
3	☐	5.000	5.135	53765.54	0.0123	P	2.4	2.7
4	☐	10.000	10.399	106019.44	0.0245	P	1.8	4.0
5	☐	100.000	100.420	999918.26	0.2332	A	2.4	0.4
6	☐	200.000	199.766	1955243.62	0.4635	A	1.5	-0.1

y = 0.0023 * x + 4.2438E-004
R = 1.0000
DL = 0.05693 ppb
BEC = 0.1831 ppb

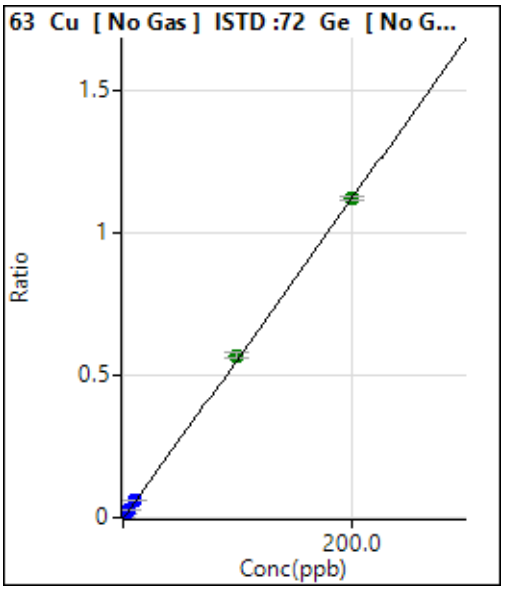
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	853.37	0.0006	P	6.3	
2	☐	2.000	1.982	11515.03	0.0084	P	2.0	-0.9
3	☐	5.000	5.039	27584.63	0.0204	P	1.6	0.8
4	☐	10.000	10.380	55829.97	0.0413	P	0.7	3.8
5	☐	100.000	101.280	533730.77	0.3972	P	1.1	1.3
6	☐	200.000	199.340	1048068.86	0.7811	A	2.3	-0.3

y = 0.0039 * x + 6.2089E-004
R = 1.0000
DL = 0.02982 ppb
BEC = 0.1586 ppb

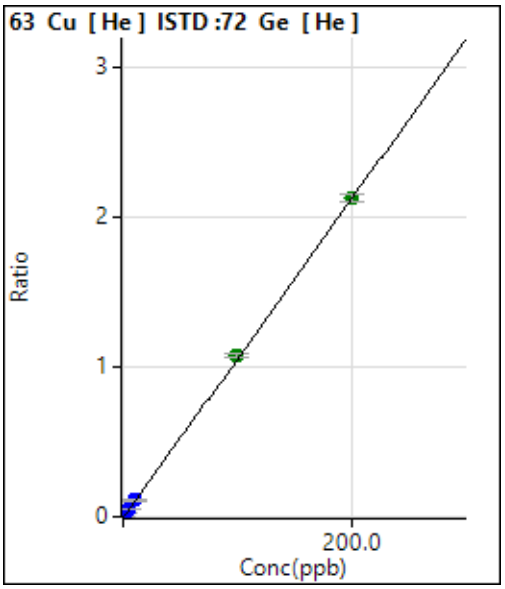
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4254.07	0.0010	P	3.9	
2	☐	2.000	2.100	55776.70	0.0128	P	3.7	5.0
3	☐	5.000	5.163	131090.91	0.0301	P	2.0	3.3
4	☐	10.000	10.504	259902.25	0.0601	P	2.3	5.0
5	☐	100.000	101.341	2451580.54	0.5717	A	3.3	1.3
6	☐	200.000	199.299	4739522.85	1.1235	A	1.6	-0.4

y = 0.0056 * x + 9.7576E-004
R = 1.0000
DL = 0.02033 ppb
BEC = 0.1732 ppb

Weight: <None>
Min Conc: <None>

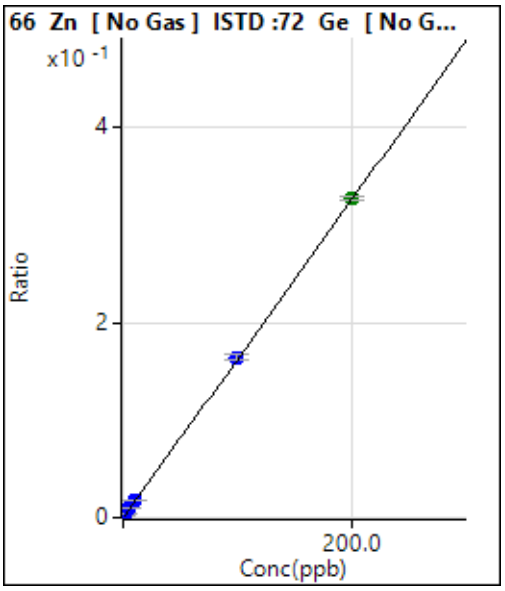


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2306.91	0.0017	P	6.2	
2	☐	2.000	2.026	31900.78	0.0232	P	3.1	1.3
3	☐	5.000	5.024	74695.94	0.0551	P	2.9	0.5
4	☐	10.000	10.183	148798.43	0.1100	P	2.2	1.8
5	☐	100.000	100.803	1442889.72	1.0738	A	1.7	0.8
6	☐	200.000	199.589	2850281.21	2.1244	A	2.2	-0.2

y = 0.0106 * x + 0.0017
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1578 ppb

Weight: <None>
Min Conc: <None>

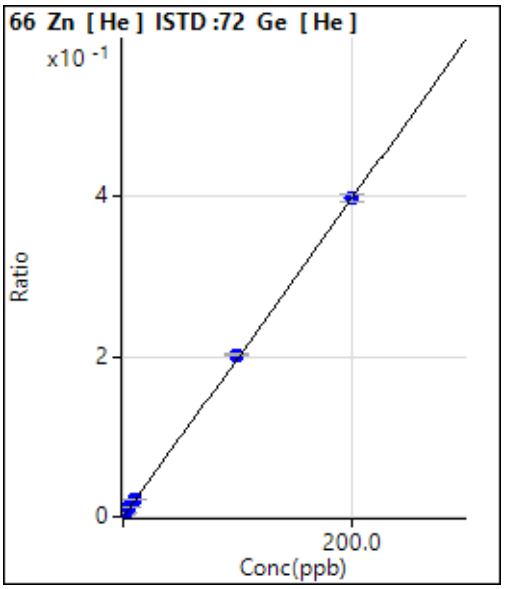
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5441.18	0.0012	P	4.0	
2	☐	2.000	2.174	20882.85	0.0048	P	2.2	8.7
3	☐	5.000	4.954	40687.45	0.0093	P	2.0	-0.9
4	☐	10.000	10.276	77836.49	0.0180	P	1.0	2.8
5	☐	100.000	100.123	705528.43	0.1645	P	2.9	0.1
6	☐	200.000	199.924	1380823.88	0.3273	A	1.5	0.0

y = 0.0016 * x + 0.0012
R = 1.0000
DL = 0.09167 ppb
BEC = 0.7654 ppb

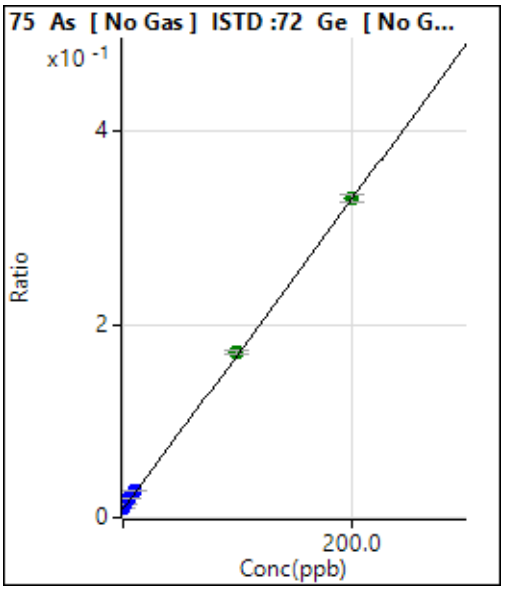
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1990.18	0.0014	P	6.1	
2	☐	2.000	2.207	8015.78	0.0058	P	3.3	10.3
3	☐	5.000	4.795	14884.91	0.0110	P	2.9	-4.1
4	☐	10.000	10.347	29796.05	0.0220	P	3.8	3.5
5	☐	100.000	101.023	271884.24	0.2023	P	1.9	1.0
6	☐	200.000	199.474	534120.45	0.3981	P	2.2	-0.3

y = 0.0020 * x + 0.0014
R = 1.0000
DL = 0.1331 ppb
BEC = 0.7282 ppb

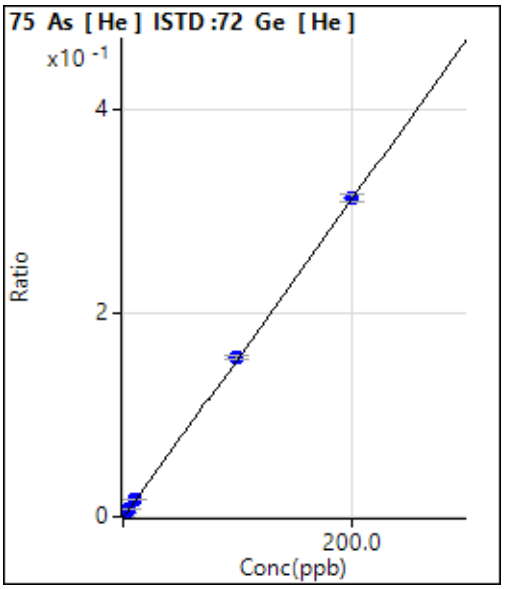
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44629.96	0.0102	P	2.1	
2	☐	2.000	2.424	61562.10	0.0141	P	0.7	21.2
3	☐	5.000	5.698	84584.23	0.0194	P	1.4	14.0
4	☐	10.000	11.112	121405.60	0.0281	P	1.0	11.1
5	☐	100.000	100.501	736109.68	0.1717	A	2.9	0.5
6	☐	200.000	199.672	1396275.29	0.3310	A	1.9	-0.2

y = 0.0016 * x + 0.0102
R = 1.0000
DL = 0.4022 ppb
BEC = 6.373 ppb

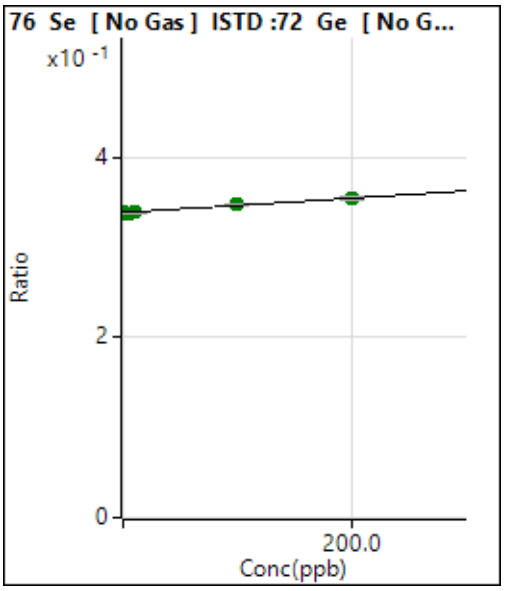
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	394.45	0.0003	P	9.2	
2	☐	2.000	2.029	4761.97	0.0035	P	3.3	1.5
3	☐	5.000	4.886	10765.40	0.0079	P	4.0	-2.3
4	☐	10.000	10.297	22219.21	0.0164	P	0.3	3.0
5	☐	100.000	99.861	210665.33	0.1568	P	1.7	-0.1
6	☐	200.000	200.057	421044.52	0.3138	P	1.9	0.0

y = 0.0016 * x + 2.8699E-004
R = 1.0000
DL = 0.05039 ppb
BEC = 0.1831 ppb

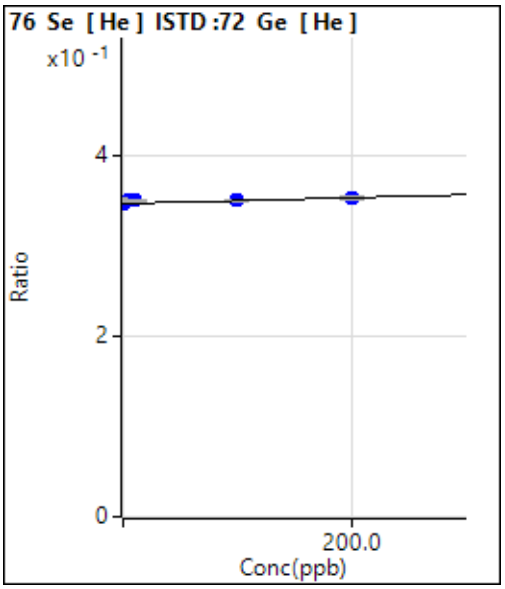
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1478801.86	0.3392	A	0.2	
2	☐	2.000	-20.845	1470482.48	0.3375	A	0.5	-1142.3
3	☐	5.000	-9.961	1476269.25	0.3384	A	0.7	-299.2
4	☐	10.000	7.122	1468759.87	0.3398	A	0.8	-28.8
5	☐	100.000	108.036	1491958.05	0.3479	A	0.6	8.0
6	☐	200.000	196.728	1497989.72	0.3551	A	0.8	-1.6

y = 8.0503E-005 * x + 0.3392
R = 0.9933
DL = 26.72 ppb
BEC = 4214 ppb

Weight: <None>
Min Conc: <None>

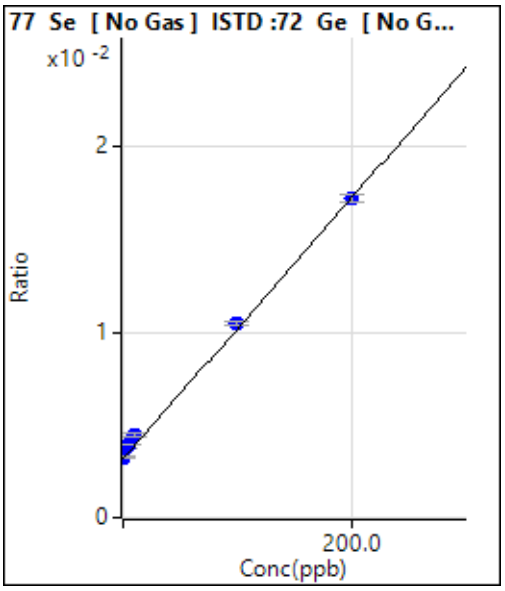


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	477258.47	0.3473	P	1.6	
2	☐	2.000	43.920	478993.38	0.3487	P	0.6	2096.0
3	☐	5.000	95.048	474964.69	0.3504	P	1.3	1801.0
4	☐	10.000	95.966	474172.67	0.3505	P	0.4	859.7
5	☐	100.000	116.344	471879.60	0.3511	P	0.7	16.3
6	☐	200.000	184.859	474179.69	0.3534	P	1.0	-7.6

y = 3.3173E-005 * x + 0.3473
R = 0.8444
DL = 511 ppb
BEC = 1.047E+04 ppb

Weight: <None>
Min Conc: <None>

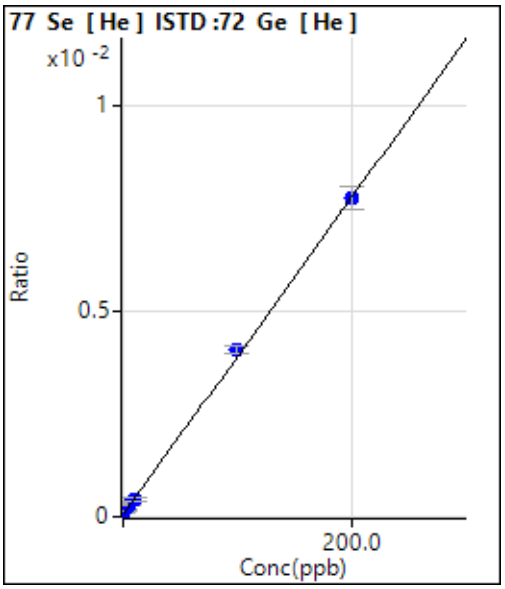
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14247.69	0.0033	P	2.4	
2	☐	2.000	6.380	16193.21	0.0037	P	0.1	219.0
3	☐	5.000	10.105	17357.99	0.0040	P	0.8	102.1
4	☐	10.000	16.915	19273.98	0.0045	P	2.9	69.1
5	☐	100.000	102.003	44787.16	0.0104	P	2.1	2.0
6	☐	200.000	198.482	72696.90	0.0172	P	2.4	-0.8

y = 7.0358E-005 * x + 0.0033
R = 0.9996
DL = 3.326 ppb
BEC = 46.45 ppb

Weight: <None>
Min Conc: <None>

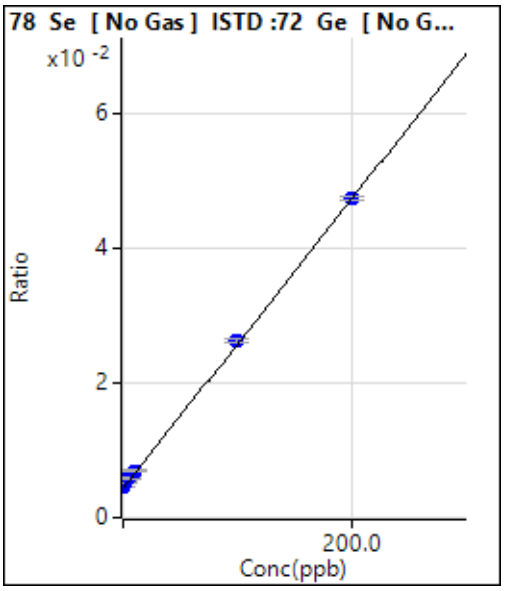


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0001	P	29.7	
2	☐	2.000	1.889	226.67	0.0002	P	23.9	-5.5
3	☐	5.000	5.021	386.68	0.0003	P	16.0	0.4
4	☐	10.000	8.676	576.69	0.0004	P	20.5	-13.2
5	☐	100.000	102.730	5444.52	0.0041	P	4.2	2.7
6	☐	200.000	198.702	10397.49	0.0077	P	7.1	-0.6

y = 3.8537E-005 * x + 9.2136E-005
R = 0.9998
DL = 2.13 ppb
BEC = 2.391 ppb

Weight: <None>
Min Conc: <None>

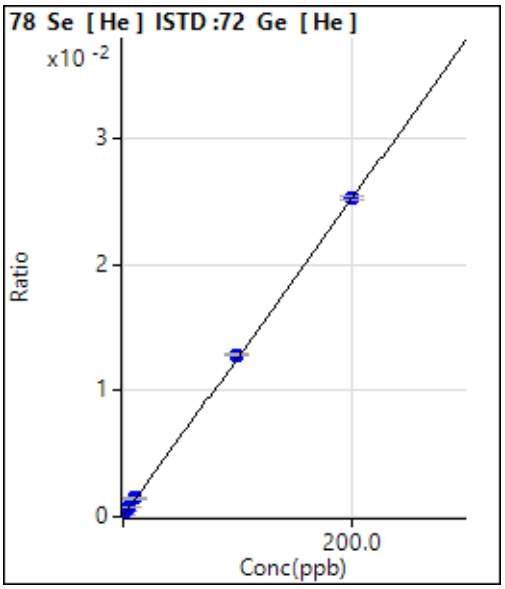
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19974.88	0.0046	P	1.1	
2	☐	2.000	3.082	22849.57	0.0052	P	2.2	54.1
3	☐	5.000	6.009	25627.78	0.0059	P	1.2	20.2
4	☐	10.000	11.047	30076.90	0.0070	P	2.4	10.5
5	☐	100.000	101.059	112838.51	0.0263	P	2.1	1.1
6	☐	200.000	199.382	200225.95	0.0475	P	1.5	-0.3

y = 2.1506E-004 * x + 0.0046
R = 1.0000
DL = 0.7244 ppb
BEC = 21.31 ppb

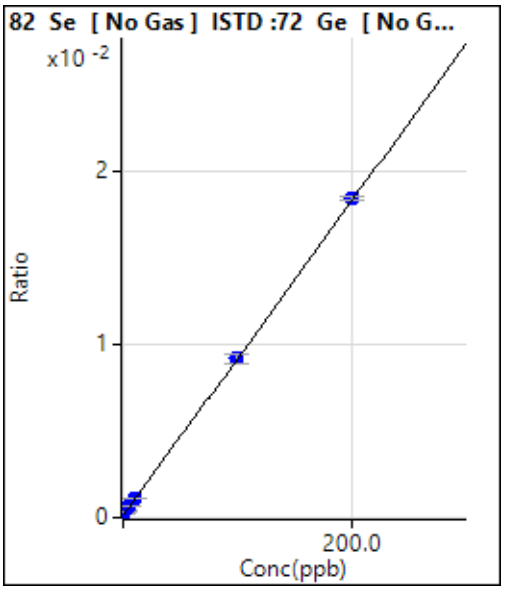
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	207.33	0.0002	P	9.0	
2	☐	2.000	2.035	560.01	0.0004	P	3.6	1.8
3	☐	5.000	4.869	1037.38	0.0008	P	3.3	-2.6
4	☐	10.000	10.420	1982.82	0.0015	P	3.5	4.2
5	☐	100.000	100.711	17278.96	0.0129	P	1.5	0.7
6	☐	200.000	199.626	33999.63	0.0253	P	0.9	-0.2

y = 1.2618E-004 * x + 1.5086E-004
R = 1.0000
DL = 0.3219 ppb
BEC = 1.196 ppb

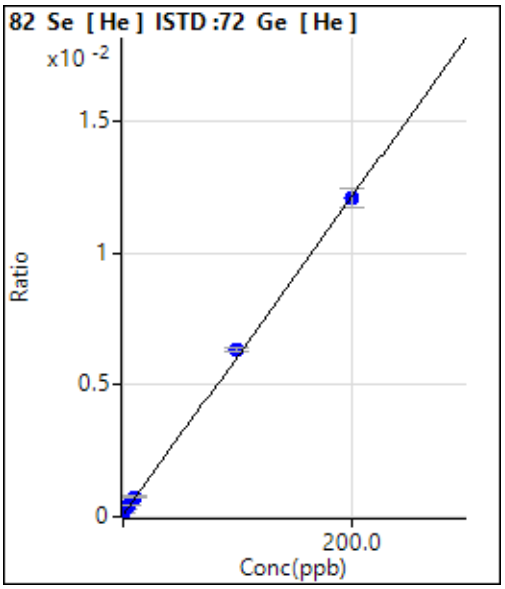
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.72	0.0002	P	11.2	
2	☐	2.000	2.170	1773.48	0.0004	P	12.5	8.5
3	☐	5.000	5.150	2953.70	0.0007	P	3.0	3.0
4	☐	10.000	9.707	4714.26	0.0011	P	5.3	-2.9
5	☐	100.000	98.591	39220.46	0.0091	P	5.7	-1.4
6	☐	200.000	200.714	77654.86	0.0184	P	1.1	0.4

y = 9.0661E-005 * x + 2.1029E-004
R = 1.0000
DL = 0.7828 ppb
BEC = 2.32 ppb

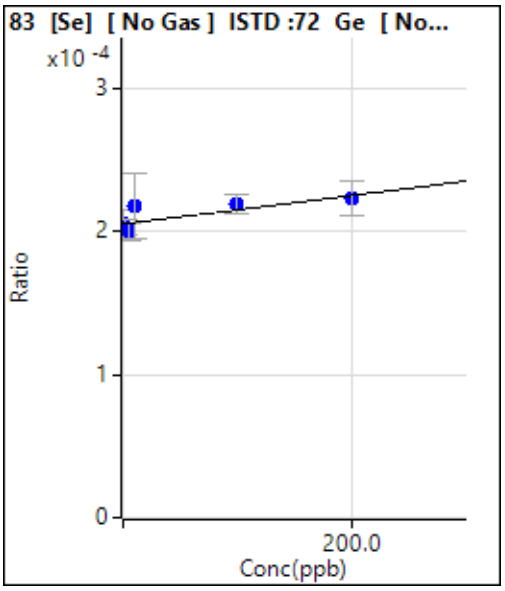
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	183.33	0.0001	P	11.2	
2	☐	2.000	2.814	416.69	0.0003	P	9.1	40.7
3	☐	5.000	4.717	566.69	0.0004	P	7.3	-5.7
4	☐	10.000	10.312	1023.39	0.0008	P	7.4	3.1
5	☐	100.000	103.225	8559.53	0.0064	P	2.7	3.2
6	☐	200.000	198.371	16249.99	0.0121	P	5.7	-0.8

y = 6.0403E-005 * x + 1.3338E-004
R = 0.9998
DL = 0.7413 ppb
BEC = 2.208 ppb

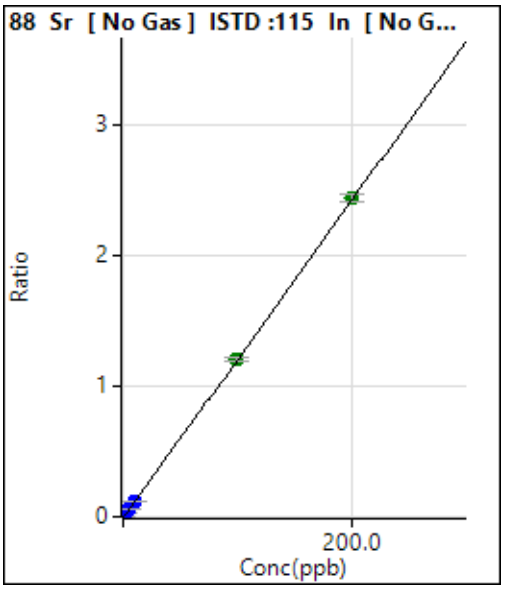
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	10.2	
2	☐	2.000	-21.422	883.38	0.0002	P	5.7	-1171.1
3	☐	5.000	-54.975	870.04	0.0002	P	6.1	-1199.5
4	☐	10.000	123.969	940.05	0.0002	P	21.2	1139.7
5	☐	100.000	133.868	936.72	0.0002	P	6.3	33.9
6	☐	200.000	179.101	940.05	0.0002	P	11.0	-10.4

y = 1.0027E-007 * x + 2.0493E-004
R = 0.7832
DL = 624.1 ppb
BEC = 2044 ppb

Weight: <None>
Min Conc: <None>

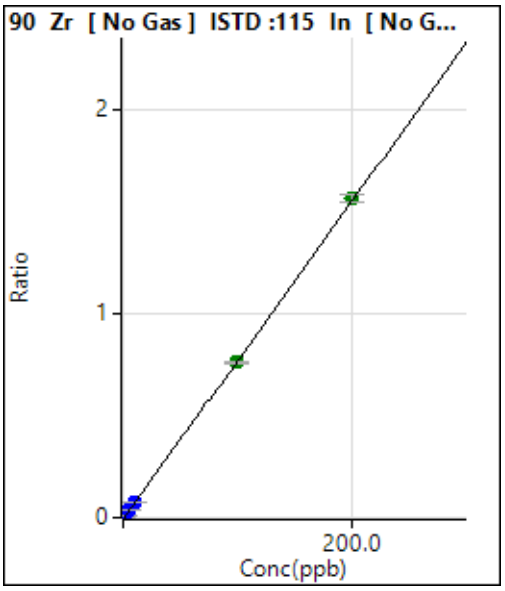


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7812.39	0.0015	P	1.5	
2	☐	2.000	2.010	133137.65	0.0260	P	1.1	0.5
3	☐	5.000	4.997	316180.22	0.0623	P	2.8	-0.1
4	☐	10.000	9.918	627104.84	0.1222	P	2.8	-0.8
5	☐	100.000	98.854	6074094.70	1.2049	A	1.7	-1.1
6	☐	200.000	200.577	11988085.24	2.4432	A	2.4	0.3

y = 0.0122 * x + 0.0015
R = 1.0000
DL = 0.005412 ppb
BEC = 0.1238 ppb

Weight: <None>
Min Conc: <None>

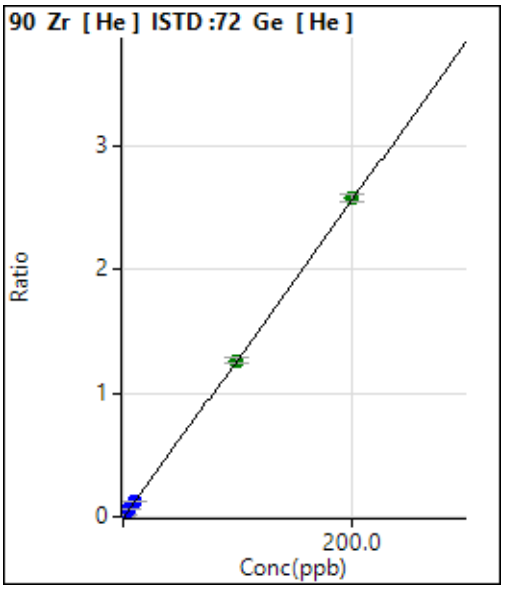
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0003	P	7.1	
2	☐	2.000	1.680	68439.61	0.0134	P	0.8	-16.0
3	☐	5.000	4.447	176951.56	0.0349	P	1.5	-11.1
4	☐	10.000	9.236	370131.15	0.0721	P	2.6	-7.6
5	☐	100.000	97.794	3837519.84	0.7612	A	1.9	-2.2
6	☐	200.000	201.158	7681848.01	1.5655	A	2.2	0.6

y = 0.0078 * x + 2.8096E-004
R = 0.9999
DL = 0.007646 ppb
BEC = 0.03611 ppb

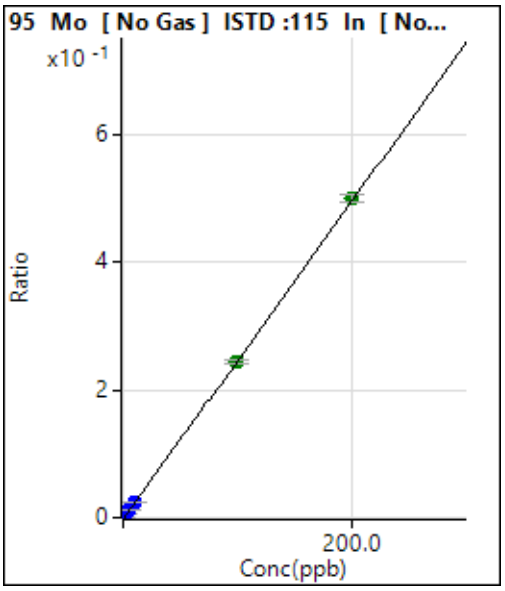
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.82	0.0013	P	10.5	
2	☐	2.000	1.645	30808.94	0.0224	P	3.3	-17.7
3	☐	5.000	4.338	77311.14	0.0570	P	1.9	-13.2
4	☐	10.000	9.413	165455.46	0.1223	P	1.6	-5.9
5	☐	100.000	98.526	1703700.91	1.2680	A	2.8	-1.5
6	☐	200.000	200.786	3465216.30	2.5826	A	1.9	0.4

y = 0.0129 * x + 0.0013
R = 1.0000
DL = 0.03127 ppb
BEC = 0.09942 ppb

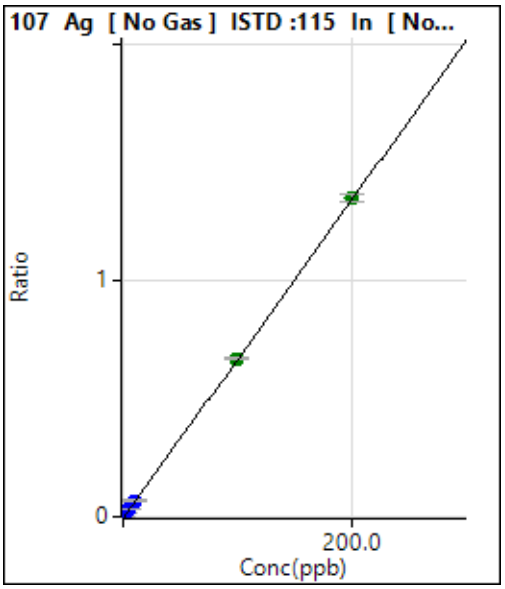
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	7.2	
2	☐	2.000	1.969	25327.51	0.0049	P	3.4	-1.6
3	☐	5.000	4.905	62170.55	0.0123	P	1.8	-1.9
4	☐	10.000	9.766	125029.71	0.0244	P	1.9	-2.3
5	☐	100.000	97.895	1229887.35	0.2440	A	2.1	-2.1
6	☐	200.000	201.067	2458478.61	0.5011	A	2.7	0.5

y = 0.0025 * x + 3.6018E-005
R = 0.9999
DL = 0.003127 ppb
BEC = 0.01445 ppb

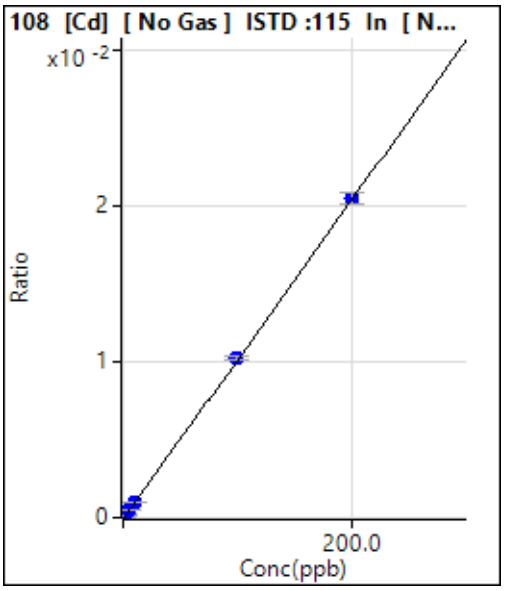
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0001	P	15.7	
2	☐	2.000	2.047	71175.99	0.0139	P	1.9	2.4
3	☐	5.000	5.143	176036.40	0.0347	P	2.4	2.9
4	☐	10.000	10.175	351688.51	0.0685	P	1.6	1.7
5	☐	100.000	99.331	3368375.68	0.6682	A	1.7	-0.7
6	☐	200.000	200.322	6611304.90	1.3474	A	2.7	0.2

y = 0.0067 * x + 1.1626E-004
R = 1.0000
DL = 0.00812 ppb
BEC = 0.01729 ppb

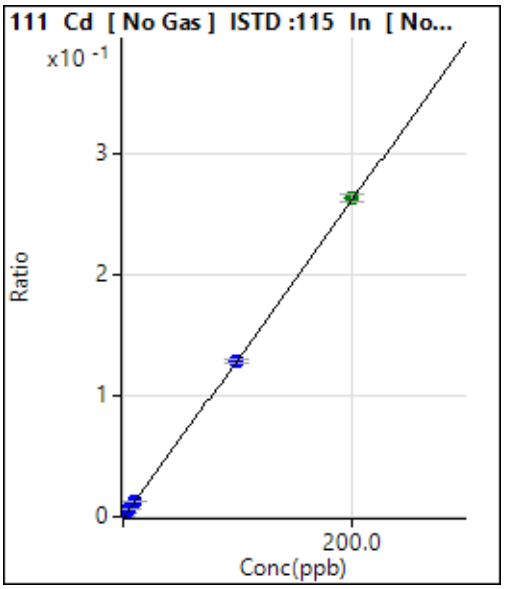
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.734	913.38	0.0002	P	16.7	-13.3
3	☐	5.000	4.931	2563.64	0.0005	P	10.4	-1.4
4	☐	10.000	9.680	5087.73	0.0010	P	10.4	-3.2
5	☐	100.000	99.811	51532.94	0.0102	P	2.6	-0.2
6	☐	200.000	200.115	100560.89	0.0205	P	3.3	0.1

y = 1.0241E-004 * x + 6.4510E-007
R = 1.0000
DL = 0.03273 ppb
BEC = 0.006299 ppb

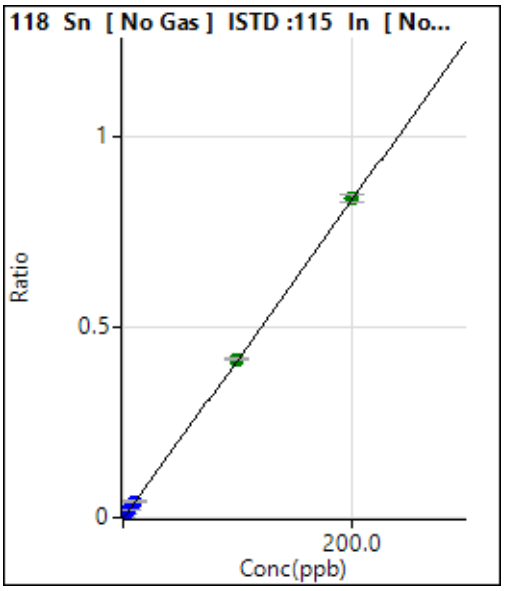
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.24	0.0000	P	-3402.	
2	☐	2.000	2.073	13928.58	0.0027	P	8.9	3.7
3	☐	5.000	4.982	33117.89	0.0065	P	1.3	-0.4
4	☐	10.000	9.978	67081.60	0.0131	P	2.0	-0.2
5	☐	100.000	98.478	650560.95	0.1291	P	2.3	-1.5
6	☐	200.000	200.762	1290978.25	0.2631	A	2.5	0.4

y = 0.0013 * x - 5.8477E-008
R = 1.0000
DL = 0.004555 ppb
BEC = -4.462E-05 ppb

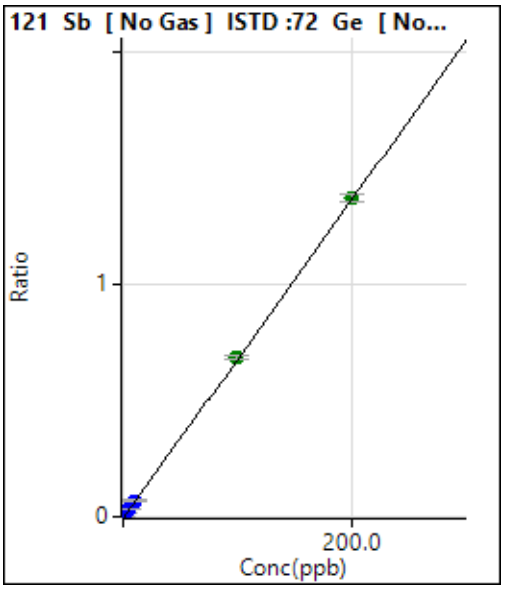
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4667.58	0.0009	P	7.7	
2	☐	2.000	1.978	46879.95	0.0091	P	2.3	-1.1
3	☐	5.000	4.924	108709.76	0.0214	P	2.0	-1.5
4	☐	10.000	10.030	219191.69	0.0427	P	1.7	0.3
5	☐	100.000	99.268	2091126.43	0.4148	A	1.5	-0.7
6	☐	200.000	200.367	4103949.42	0.8364	A	2.2	0.2

y = 0.0042 * x + 9.0048E-004
R = 1.0000
DL = 0.04998 ppb
BEC = 0.216 ppb

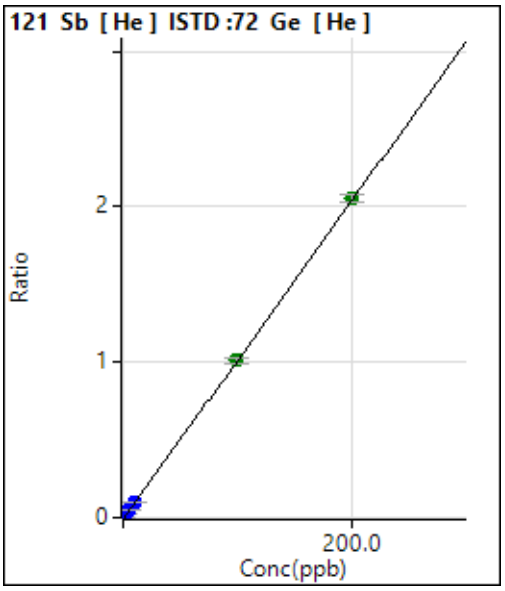
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.69	0.0001	P	7.2	
2	☐	2.000	1.996	60063.03	0.0138	P	3.0	-0.2
3	☐	5.000	4.948	148398.70	0.0340	P	2.6	-1.0
4	☐	10.000	10.187	302257.92	0.0699	P	2.2	1.9
5	☐	100.000	99.551	2926320.48	0.6825	A	2.4	-0.4
6	☐	200.000	200.217	5789795.33	1.3725	A	2.3	0.1

y = 0.0069 * x + 1.0707E-004
R = 1.0000
DL = 0.003375 ppb
BEC = 0.01562 ppb

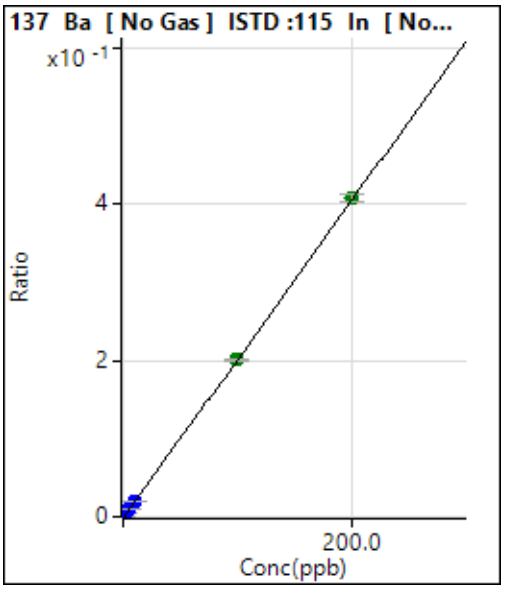
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0002	P	22.6	
2	☐	2.000	1.945	27609.22	0.0201	P	1.3	-2.7
3	☐	5.000	4.873	67863.70	0.0501	P	2.1	-2.5
4	☐	10.000	9.941	137943.19	0.1020	P	3.9	-0.6
5	☐	100.000	98.722	1358293.83	1.0109	A	3.0	-1.3
6	☐	200.000	200.646	2756499.75	2.0544	A	2.1	0.3

y = 0.0102 * x + 1.8430E-004
R = 1.0000
DL = 0.01221 ppb
BEC = 0.018 ppb

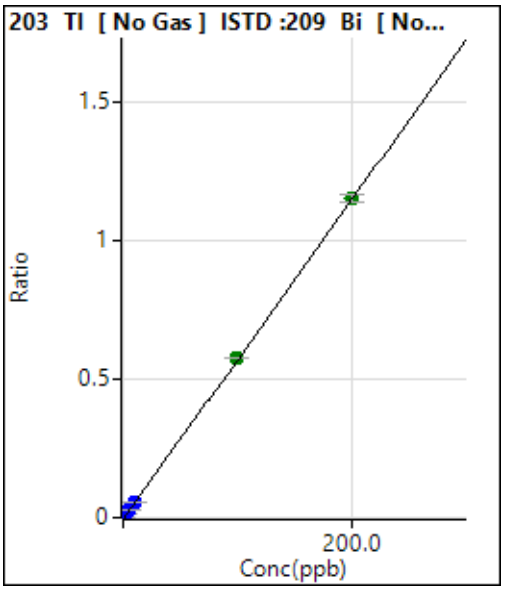
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0002	P	4.1	
2	☐	2.000	2.070	22452.86	0.0044	P	2.7	3.5
3	☐	5.000	5.103	53499.26	0.0105	P	2.6	2.1
4	☐	10.000	9.952	104682.67	0.0204	P	2.0	-0.5
5	☐	100.000	98.825	1013632.77	0.2011	A	1.2	-1.2
6	☐	200.000	200.587	2001738.25	0.4079	A	2.5	0.3

y = 0.0020 * x + 1.7291E-004
R = 1.0000
DL = 0.01052 ppb
BEC = 0.08506 ppb

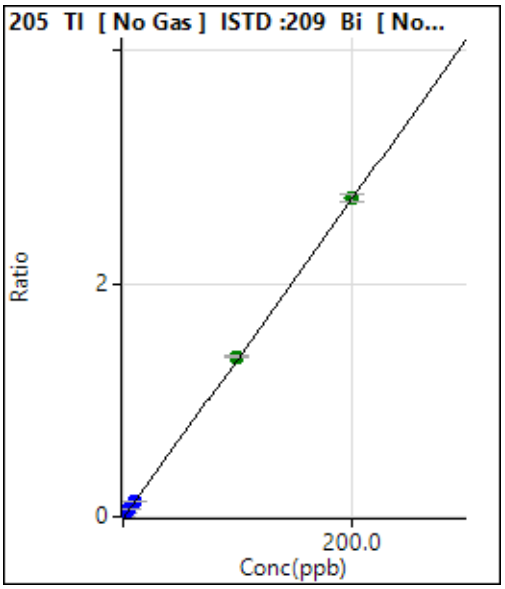
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0000	P	35.9	
2	☐	2.000	1.982	52667.60	0.0114	P	2.8	-0.9
3	☐	5.000	4.926	131454.82	0.0284	P	2.2	-1.5
4	☐	10.000	9.872	263846.17	0.0569	P	1.7	-1.3
5	☐	100.000	100.064	2587898.45	0.5765	A	1.0	0.1
6	☐	200.000	199.977	5103374.92	1.1522	A	2.7	0.0

y = 0.0058 * x + 2.4422E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.004239 ppb

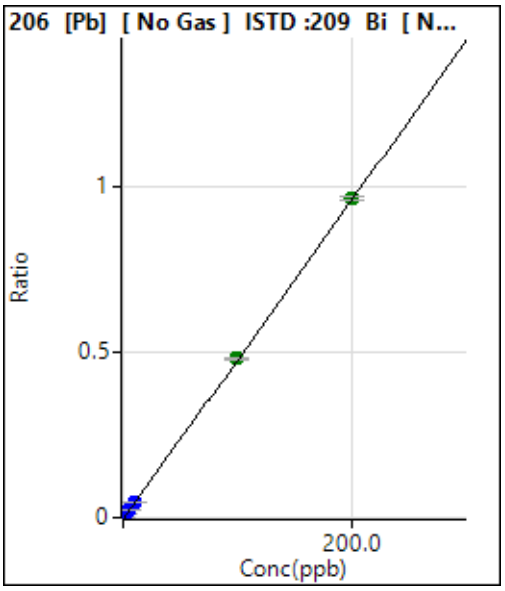
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	18.8	
2	☐	2.000	1.973	124291.66	0.0270	P	2.0	-1.4
3	☐	5.000	4.897	310000.76	0.0670	P	1.0	-2.1
4	☐	10.000	9.845	624127.84	0.1346	P	1.3	-1.6
5	☐	100.000	100.082	6140256.16	1.3679	A	1.3	0.1
6	☐	200.000	199.970	12105944.40	2.7331	A	2.4	0.0

y = 0.0137 * x + 5.2440E-005
R = 1.0000
DL = 0.002162 ppb
BEC = 0.003837 ppb

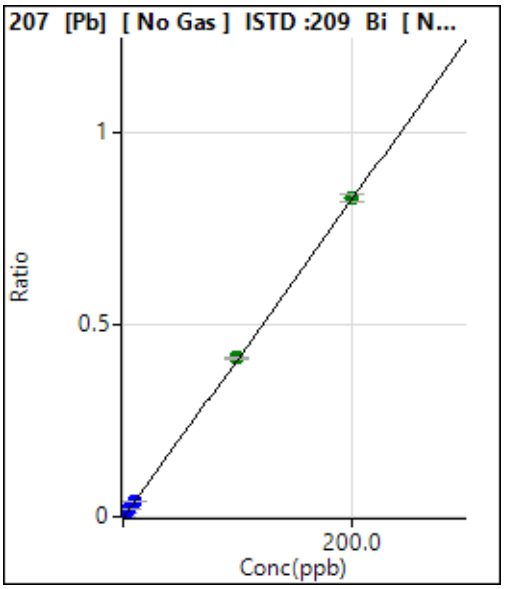
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0001	P	9.2	
2	☐	2.000	2.006	44870.50	0.0098	P	2.0	0.3
3	☐	5.000	4.984	111428.16	0.0241	P	1.6	-0.3
4	☐	10.000	10.031	224207.78	0.0484	P	1.3	0.3
5	☐	100.000	99.533	2149761.58	0.4789	A	1.2	-0.5
6	☐	200.000	200.232	4267185.87	0.9634	A	1.6	0.1

y = 0.0048 * x + 1.0056E-004
R = 1.0000
DL = 0.005757 ppb
BEC = 0.0209 ppb

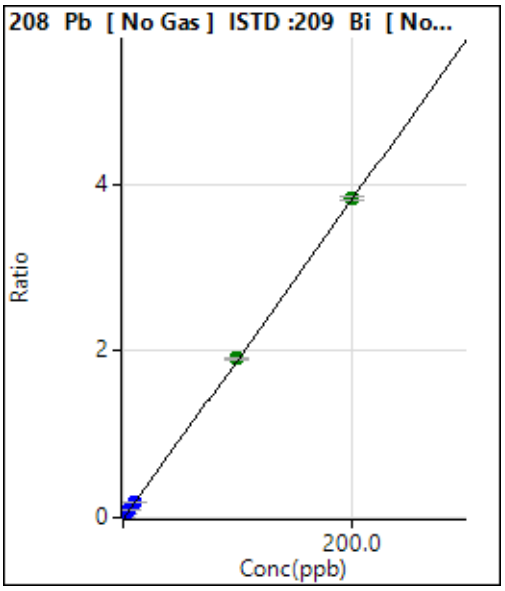
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	420.02	0.0001	P	33.4	
2	☐	2.000	1.969	37961.12	0.0083	P	2.3	-1.5
3	☐	5.000	4.940	95165.85	0.0206	P	1.3	-1.2
4	☐	10.000	9.983	192215.65	0.0415	P	1.2	-0.2
5	☐	100.000	99.707	1854863.41	0.4132	A	1.1	-0.3
6	☐	200.000	200.149	3673857.97	0.8294	A	2.0	0.1

y = 0.0041 * x + 9.0507E-005
R = 1.0000
DL = 0.02192 ppb
BEC = 0.02184 ppb

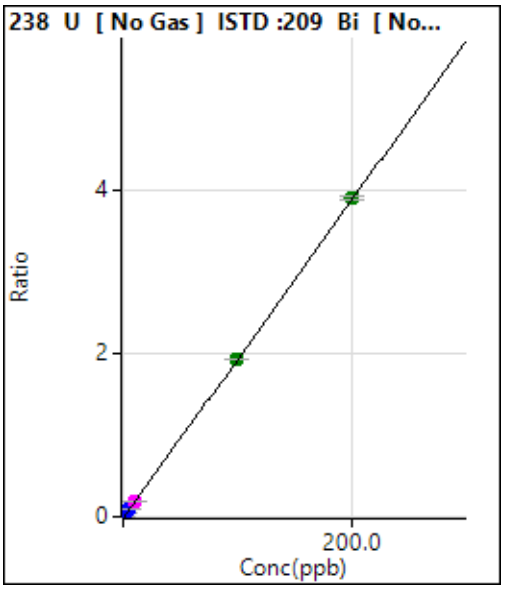
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1946.76	0.0004	P	9.2	
2	☐	2.000	1.988	177134.63	0.0385	P	2.0	-0.6
3	☐	5.000	4.957	441414.48	0.0954	P	1.3	-0.9
4	☐	10.000	10.011	891156.12	0.1922	P	1.1	0.1
5	☐	100.000	99.856	8588625.03	1.9134	A	1.3	-0.1
6	☐	200.000	200.073	16978853.50	3.8332	A	1.8	0.0

y = 0.0192 * x + 4.1940E-004
R = 1.0000
DL = 0.006041 ppb
BEC = 0.02189 ppb

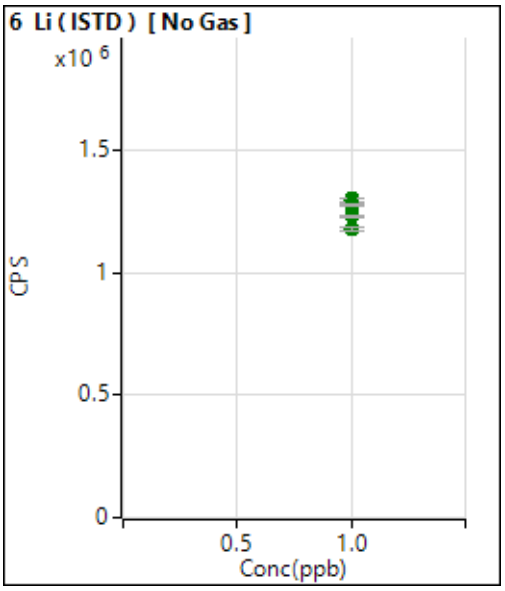
Weight: <None>
Min Conc: <None>



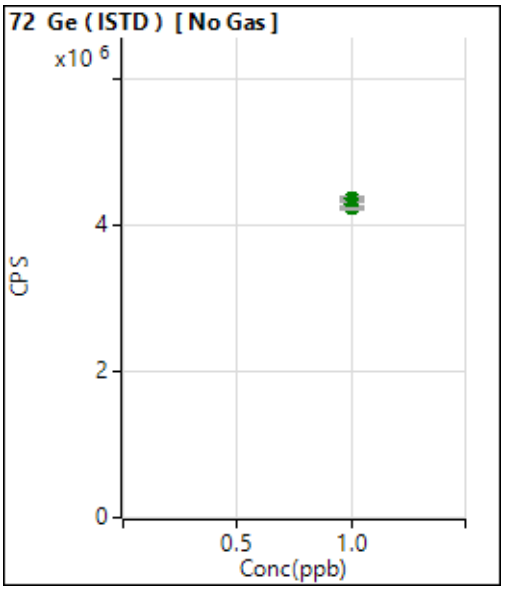
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	12.0	
2	☐	2.000	1.890	170411.61	0.0370	P	2.4	-5.5
3	☐	5.000	4.711	426581.55	0.0922	P	1.2	-5.8
4	☐	10.000	9.582	868651.94	0.1873	M	2.0	-4.2
5	☐	100.000	99.206	8699904.46	1.9384	A	0.6	-0.8
6	☐	200.000	200.426	17346070.99	3.9161	A	1.8	0.2

y = 0.0195 * x + 1.1772E-004
R = 1.0000
DL = 0.002167 ppb
BEC = 0.006025 ppb

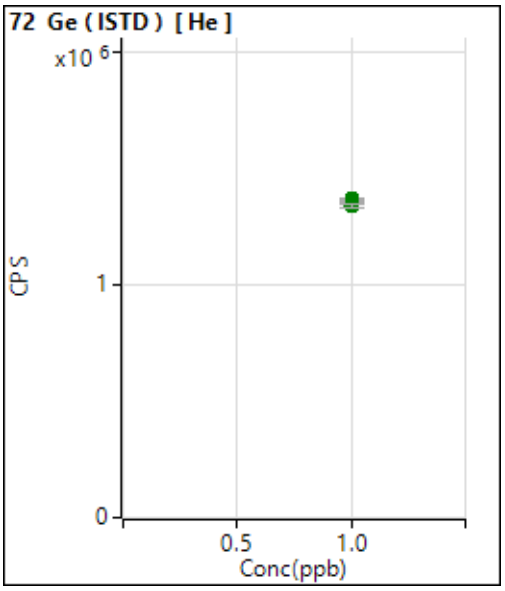
Weight: <None>
Min Conc: <None>



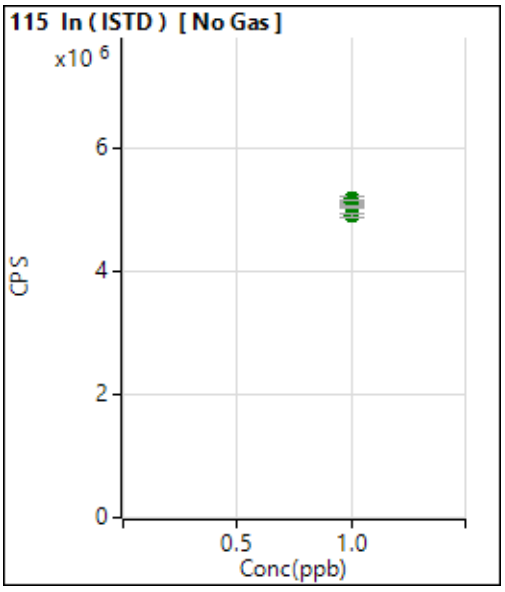
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1303313.05		A	0.4	
2	☐	1.000		1293096.02		A	1.6	
3	☐	1.000		1283534.37		A	0.3	
4	☐	1.000		1275635.33		A	0.1	
5	☐	1.000		1229032.35		A	0.2	
6	☐	1.000		1176331.61		A	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4359457.85		A	0.3	
2	☐	1.000		4356546.60		A	0.3	
3	☐	1.000		4362439.94		A	0.8	
4	☐	1.000		4322696.60		A	0.9	
5	☐	1.000		4288391.50		A	0.9	
6	☐	1.000		4218912.75		A	0.6	

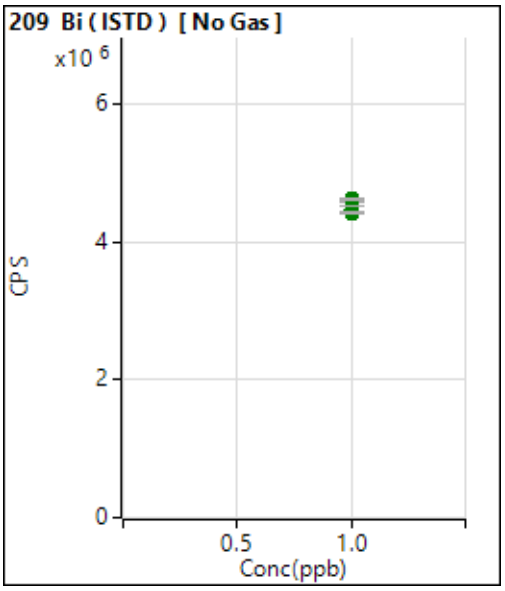


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1374323.41		A	0.2	
2	☐	1.000		1373552.69		A	0.4	
3	☐	1.000		1355522.32		A	1.2	
4	☐	1.000		1352998.88		A	0.5	
5	☐	1.000		1343953.73		A	1.3	
6	☐	1.000		1341850.97		A	1.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5185395.31		A	1.3	
2	☐	1.000		5125227.36		A	0.7	
3	☐	1.000		5072595.80		A	0.8	
4	☐	1.000		5131137.70		A	1.1	
5	☐	1.000		5041006.13		A	0.2	
6	☐	1.000		4907591.41		A	1.2	

Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4642202.64		A	0.5	
2	☐	1.000		4601017.85		A	0.3	
3	☐	1.000		4628663.99		A	1.0	
4	☐	1.000		4636493.99		A	0.6	
5	☐	1.000		4488256.81		A	1.3	
6	☐	1.000		4429482.12		A	0.6	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	107LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:21:05-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.074	2.074	2.94	106555	0.00	2	
Be	9	1	No Gas	2.064	2.064	2.88	10229	0.02	2	
V	51	2	He	1.897	1.897	0.98	25822	0.01	2	
Cr	52	2	He	2.029	2.029	2.64	37251	0.01	2	
Fe	56	2	He	204.821	204.821	1.56	2503207	0.01	200	
Se	78	2	He	1.919	1.919	12.83	529	0.36	2	
As	75	2	He	2.029	2.029	3.60	4667	0.04	2	
Ca	44	2	He	205.712	205.712	3.08	16800	1.22	200	
Na	23	2	He	182.766	182.766	1.34	623705	0.03	200	
Mg	24	2	He	206.133	206.133	1.41	239072	0.09	200	
K	39	2	He	205.080	205.080	1.68	405806	0.05	200	
Mn	55	2	He	2.067	2.067	1.13	20375	0.01	2	
Co	59	2	He	2.067	2.067	0.91	42325	0.00	2	
Ni	60	2	He	2.023	2.023	4.44	11502	0.02	2	
Cu	63	2	He	2.056	2.056	0.99	31704	0.01	2	
Zn	66	2	He	2.290	2.290	4.59	8083	0.03	2	
Al	27	2	He	2.735	2.735	6.73	7716	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	12.418	12.418	2.68	53413	0.02	10	
Al	27	1	No Gas	2.697	2.697	8.19	256732	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	10.854	10.854	10.68	642158	0.00	10	
Ag	107	1	No Gas	2.101	2.101	3.19	71538	0.00	2	
Cd	111	1	No Gas	2.022	2.022	2.71	13304	0.02	2	
Sr	88	1	No Gas	2.035	2.035	2.47	131950	0.00	2	
Mo	95	1	No Gas	2.031	2.031	2.32	25595	0.01	2	
Sn	118	1	No Gas	2.033	2.033	2.24	47090	0.00	2	
Sb	121	1	No Gas	2.071	2.071	3.34	61442	0.00	2	
Ba	137	1	No Gas	2.121	2.121	4.83	22523	0.01	2	
Tl	205	1	No Gas	1.992	1.992	2.01	124344	0.00	2	
Tl	203	1	No Gas	1.988	1.988	1.22	52319	0.00	2	
Pb	208	1	No Gas	2.027	2.027	2.06	178892	0.00	2	
U	238	1	No Gas	1.917	1.917	1.50	171274	0.00	2	
Ca	43	2	He	233.495	233.495	5.41	1043	22.38	200	
Sb	121	2	He	2.080	2.080	2.41	28929	0.01	2	
Ti	47	2	He	1.959	1.959	4.66	820	0.24	200	
Cu	63	1	No Gas	2.117	2.117	2.60	55442	0.00	2	
Se	82	1	No Gas	2.358	2.358	9.37	1823	0.13	2	
Zr	90	1	No Gas	1.724	1.724	1.94	68802	0.00	2	
Zr	90	2	He	1.726	1.726	3.37	31591	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1248679	1.14	1303313	95.81	70	120	
Ge	72	2	He	1346393	1.20	1374323	97.97	70	120	
Ge	72	1	No Gas	4298785	1.98	4359458	98.61	70	120	
In	115	1	No Gas	5022570	1.07	5185395	96.86	70	120	
Bi	209	1	No Gas	4557908	0.94	4642203	98.18	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	108LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:23:30-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.162	5.162	2.45	161216	0.00	5	
Be	9	1	No Gas	4.990	4.990	2.91	24581	0.02	5	
V	51	2	He	5.048	5.048	1.34	61371	0.01	5	
Cr	52	2	He	5.217	5.217	2.09	78009	0.01	5	
Fe	56	2	He	511.235	511.235	0.44	6214204	0.01	500	
Se	78	2	He	5.066	5.066	6.19	1064	0.48	5	
As	75	2	He	5.053	5.053	0.72	11052	0.05	5	
Ca	44	2	He	514.349	514.349	0.68	38239	1.35	500	
Na	23	2	He	492.920	492.920	1.12	1206206	0.04	500	
Mg	24	2	He	514.532	514.532	0.36	595166	0.09	500	
K	39	2	He	517.739	517.739	0.82	807787	0.06	500	
Mn	55	2	He	5.111	5.111	2.21	49087	0.01	5	
Co	59	2	He	5.207	5.207	1.15	106500	0.00	5	
Ni	60	2	He	5.218	5.218	1.03	28356	0.02	5	
Cu	63	2	He	5.164	5.164	0.89	76251	0.01	5	
Zn	66	2	He	5.105	5.105	1.06	15626	0.03	5	
Al	27	2	He	6.398	6.398	5.98	10361	0.06	5	
B	11	1	No Gas	26.444	26.444	1.55	97333	0.03	25	
Al	27	1	No Gas	6.327	6.327	2.88	343381	0.00	5	
Si	28	1	No Gas	25.842	25.842	2.03	782830	0.00	25	
Ag	107	1	No Gas	5.197	5.197	2.18	176707	0.00	5	
Cd	111	1	No Gas	5.017	5.017	1.38	33133	0.02	5	
Sr	88	1	No Gas	5.054	5.054	1.93	317659	0.00	5	
Mo	95	1	No Gas	5.094	5.094	1.42	64143	0.01	5	
Sn	118	1	No Gas	5.017	5.017	1.62	109960	0.00	5	
Sb	121	1	No Gas	5.173	5.173	2.59	151803	0.00	5	
Ba	137	1	No Gas	5.063	5.063	1.07	52743	0.01	5	
Tl	205	1	No Gas	4.982	4.982	1.26	311598	0.00	5	
Tl	203	1	No Gas	4.977	4.977	2.61	131230	0.00	5	
Pb	208	1	No Gas	5.014	5.014	1.62	441148	0.00	5	
U	238	1	No Gas	4.801	4.801	1.54	429473	0.00	5	
Ca	43	2	He	550.443	550.443	7.52	2324	23.69	500	
Sb	121	2	He	5.097	5.097	0.74	70538	0.01	5	
Ti	47	2	He	5.374	5.374	13.13	2227	0.24	5	
Cu	63	1	No Gas	5.304	5.304	1.81	131690	0.00	5	
Se	82	1	No Gas	5.046	5.046	3.56	2850	0.18	5	
Zr	90	1	No Gas	4.589	4.589	1.40	181351	0.00	5	
Zr	90	2	He	4.662	4.662	2.06	82441	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1241601	0.88	1303313	95.26	70	120	

Sample Report

Ge	72	2	He	1347060	0.91	1374323	98.02	70	120	
Ge	72	1	No Gas	4268485	0.49	4359458	97.91	70	120	
In	115	1	No Gas	5039785	0.79	5185395	97.19	70	120	
Bi	209	1	No Gas	4572548	0.28	4642203	98.50	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	109_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:25:54-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.079	30.8	70606	0.3	0.5	
Be	9	1	No Gas	0.003	43.4	32	24.1	0.5	
V	51	2	He	-0.105	-10.4	3292	4.6	2.5	
Cr	52	2	He	0.076	50.1	12409	3.8	2.5	
Fe	56	2	He	2.114	4.6	50262	2.9	100	
Se	78	2	He	0.032	169.6	211	4.0	1	
As	75	2	He	-0.017	-141.7	353	14.0	2.5	
Ca	44	2	He	-8.129	-17.6	1977	5.6	100	
Na	23	2	He	-19.528	-5.1	246596	0.9	100	
Mg	24	2	He	0.701	9.3	2050	3.0	100	
K	39	2	He	-2.030	-8.5	141143	0.8	100	
Mn	55	2	He	0.092	13.1	1780	5.5	2.5	
Co	59	2	He	0.000	722.4	107	51.6	2.5	
Ni	60	2	He	0.035	39.7	1030	7.9	2.5	
Cu	63	2	He	-0.008	-138.4	2170	7.0	1	
Zn	66	2	He	0.325	29.4	2847	8.4	2.5	
Al	27	2	He	-3.124	-12.6	3527	7.2	5	
B	11	1	No Gas	1.839	10.7	19856	3.1	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-3.099	-5.4	115146	3.0	5	
Si	28	1	No Gas	10.701	6.7	643898	0.6	10	ICB Main CR1 Failed
Ag	107	1	No Gas	0.004	68.6	720	12.5	2.5	
Cd	111	1	No Gas	0.001	268.9	5	286.2	1	
Sr	88	1	No Gas	-0.050	-1.9	4594	1.1	2.5	
Mo	95	1	No Gas	0.011	16.6	327	7.1	2.5	
Sn	118	1	No Gas	0.127	18.8	7262	6.7	5	
Sb	121	1	No Gas	0.030	6.3	1347	3.8	2.5	
Ba	137	1	No Gas	0.142	8.4	2344	6.0	2.5	
Tl	205	1	No Gas	0.009	26.9	833	19.4	1	
Tl	203	1	No Gas	0.007	17.8	310	11.6	1	
Pb	208	1	No Gas	0.018	9.0	3480	4.3	2.5	
U	238	1	No Gas	0.002	12.5	760	3.9	2.5	
Ca	43	2	He	-8.725	-58.8	67	31.2	100	
Sb	121	2	He	0.028	11.4	643	7.3	2.5	
Ti	47	2	He	-0.007	-323.0	10	100.0	2.5	
Se	82	1	No Gas	0.216	129.5	993	11.6	1	
Zr	90	1	No Gas	0.101	20.9	5405	14.6	2.5	
Zr	90	2	He	0.081	14.8	3150	5.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1247261	0.46	1303313	95.70	70	120	
Ge	72	2	He	1359827	0.91	1374323	98.95	70	120	
Ge	72	1	No Gas	4319589	0.58	4359458	99.09	70	120	
In	115	1	No Gas	5082771	0.78	5185395	98.02	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4594606	0.34	4642203	98.97	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	111_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:38:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.071	3.114	1886250	2.62	100	101.1	90	110	
Be	9	1	No Gas	103.621	3.157	512663	2.77	100	103.6	90	110	
V	51	2	He	104.775	2.506	1181450	2.41	100	104.8	90	110	
Cr	52	2	He	104.806	2.278	1345863	2.25	100	104.8	90	110	
Fe	56	2	He	10246.892	2.084	123608165	1.98	10000	102.5	90	110	
Se	78	2	He	106.644	2.226	18256	1.78	100	106.6	90	110	
As	75	2	He	104.346	2.187	219778	2.02	100	104.3	90	110	
Ca	44	2	He	10275.749	2.237	713163	1.15	10000	102.8	90	110	
Na	23	2	He	10145.847	2.600	19251452	2.65	10000	101.5	90	110	
Mg	24	2	He	10260.819	2.563	11799759	2.71	10000	102.6	90	110	
K	39	2	He	10407.078	2.368	13463871	2.05	10000	104.1	90	110	
Mn	55	2	He	104.753	1.896	984758	2.00	100	104.8	90	110	
Co	59	2	He	104.840	2.061	2134091	1.99	100	104.8	90	110	
Ni	60	2	He	105.164	0.559	553328	0.77	100	105.2	90	110	
Cu	63	2	He	104.021	2.267	1486668	2.16	100	104.0	90	110	
Zn	66	2	He	104.831	1.175	281639	1.05	100	104.8	90	110	
Al	27	2	He	102.462	2.678	79316	3.06	100	102.5	90	110	
B	11	1	No Gas	492.931	2.891	1575813	2.57	500	98.6	90	110	
Al	27	1	No Gas	103.031	3.170	2690330	2.97	100	103.0	90	110	
Si	28	1	No Gas	525.375	3.105	5599760	2.65	5000	10.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.363	2.857	3464453	2.17	100	104.4	90	110	
Cd	111	1	No Gas	103.495	1.521	669337	0.78	100	103.5	90	110	
Sr	88	1	No Gas	104.164	2.767	6265162	2.07	100	104.2	90	110	
Mo	95	1	No Gas	102.079	2.999	1255427	2.33	100	102.1	90	110	
Sn	118	1	No Gas	102.632	2.138	2116376	1.42	100	102.6	90	110	
Sb	121	1	No Gas	104.401	1.405	3045350	1.34	100	104.4	90	110	
Ba	137	1	No Gas	104.388	3.228	1048066	2.47	100	104.4	90	110	
Tl	205	1	No Gas	99.208	1.299	6012779	2.40	100	99.2	90	110	
Tl	203	1	No Gas	99.106	1.498	2532181	2.69	100	99.1	90	110	
Pb	208	1	No Gas	103.696	1.404	8810548	2.38	100	103.7	90	110	
U	238	1	No Gas	99.403	1.003	8612371	2.04	100	99.4	90	110	
Ca	43	2	He	10324.517	3.537	41616	3.10	10000	103.2	90	110	
Sb	121	2	He	102.567	2.585	1409192	2.38	100	102.6	90	110	
Ti	47	2	He	103.702	2.854	42572	1.56	100	103.7	90	110	
Cu	63	1	No Gas	107.222	1.956	2573912	2.39	100	107.2	90	110	
Se	82	1	No Gas	103.431	1.705	40795	1.66	100	103.4	90	110	
Zr	90	1	No Gas	86.213	2.532	3312036	1.82	100	86.2	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.278	2.331	1455454	1.93	100	84.3	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1247909	0.48	1303313	95.75	70	120	
Ge	72	2	He	1341856	1.29	1374323	97.64	70	120	
Ge	72	1	No Gas	4255123	0.73	4359458	97.61	70	120	
In	115	1	No Gas	4935669	0.96	5185395	95.18	70	120	
Bi	209	1	No Gas	4433929	1.19	4642203	95.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	112_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:40:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.015	-267.4	72469	1.9	0.5	
Be	9	1	No Gas	0.012	22.3	80	18.8	0.5	
V	51	2	He	-0.177	-6.2	2447	5.6	2.5	
Cr	52	2	He	-0.141	-22.4	9510	4.0	2.5	
Fe	56	2	He	0.859	11.8	34550	3.7	100	
Se	78	2	He	0.015	1664.5	205	19.7	2	
As	75	2	He	-0.019	-191.3	347	22.5	2.5	
Ca	44	2	He	-12.004	-4.9	1687	2.5	100	
Na	23	2	He	-20.595	-4.6	241981	0.8	100	
Mg	24	2	He	0.020	239.7	1243	4.0	100	
K	39	2	He	-2.011	-87.7	139672	1.8	100	
Mn	55	2	He	0.031	32.9	1187	7.6	2.5	
Co	59	2	He	0.004	60.1	177	26.8	2.5	
Ni	60	2	He	-0.020	-12.9	730	2.4	2.5	
Cu	63	2	He	-0.043	-17.8	1643	6.4	2	
Zn	66	2	He	-0.037	-104.6	1850	6.1	2.5	
Al	27	2	He	-4.658	-2.2	2387	3.4	5	
B	11	1	No Gas	4.052	13.0	28243	6.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-4.683	-0.9	76206	0.9	5	
Si	28	1	No Gas	4.530	13.5	584196	1.3	10	
Ag	107	1	No Gas	0.009	5.7	900	1.9	2.5	
Cd	111	1	No Gas	0.007	12.0	46	12.0	1	
Sr	88	1	No Gas	-0.078	-4.0	2780	6.9	2.5	
Mo	95	1	No Gas	0.060	30.9	927	24.9	2.5	
Sn	118	1	No Gas	0.074	19.0	6065	4.9	5	
Sb	121	1	No Gas	0.060	7.7	2257	6.8	2.5	
Ba	137	1	No Gas	-0.030	-26.4	560	14.6	2.5	
Tl	205	1	No Gas	0.117	50.7	7423	48.6	1	
Tl	203	1	No Gas	0.122	53.5	3271	51.2	1	
Pb	208	1	No Gas	0.018	12.1	3397	4.9	2.5	
U	238	1	No Gas	0.008	30.7	1240	17.0	2.5	
Ca	43	2	He	-8.541	-34.7	67	17.3	100	
Sb	121	2	He	0.044	24.8	860	17.6	2.5	
Ti	47	2	He	0.001	3859.7	13	86.6	2.5	
Cu	63	1	No Gas	-0.047	-33.0	3084	10.9	2.5	
Se	82	1	No Gas	-0.091	-119.4	873	3.7	2	
Zr	90	1	No Gas	0.118	17.8	6015	13.6	2.5	
Zr	90	2	He	0.069	17.3	2907	7.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1311407	0.89	1303313	100.62	70	120	
Ge	72	2	He	1345396	0.64	1374323	97.90	70	120	
Ge	72	1	No Gas	4325035	1.18	4359458	99.21	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5023182	0.10	5185395	96.87	70	120	
Bi	209	1	No Gas	4499105	0.67	4642203	96.92	70	120	

Sample Report

Sample Table

Sample Name	MBLK-212449
Data File Name	113SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:45:46-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.056	-0.056	-80.92	72279	0.00	2000	
Be	9	1	No Gas	0.002	0.002	50.48	25	0.01	2000	
V	51	2	He	-0.197	-0.197	-1.89	2235	-0.01	2000	
Cr	52	2	He	-0.214	-0.214	-13.17	8623	0.00	2000	
Fe	56	2	He	-0.286	-0.286	-31.68	20821	0.00	200000	
Se	78	2	He	0.082	0.082	105.74	218	0.04	2000	
As	75	2	He	-0.031	-0.031	-47.36	322	-0.01	2000	
Ca	44	2	He	-13.238	-13.238	-16.98	1610	-0.82	200000	
Na	23	2	He	-21.032	-21.032	-3.37	242385	-0.01	200000	
Mg	24	2	He	0.092	0.092	43.24	1333	0.01	200000	
K	39	2	He	0.372	0.372	481.85	143454	0.00	200000	
Mn	55	2	He	0.148	0.148	5.85	2300	0.01	2000	
Co	59	2	He	0.000	0.000	800.37	107	0.00	2000	
Ni	60	2	He	0.032	0.032	12.71	1007	0.00	2000	
Cu	63	2	He	0.031	0.031	22.57	2710	0.00	2000	
Zn	66	2	He	0.346	0.346	24.01	2890	0.01	2000	
Al	27	2	He	-5.687	-5.687	-10.68	1657	-0.34	2000	
B	11	1	No Gas	0.632	0.632	19.67	16999	0.00	2000	
Al	27	1	No Gas	-5.876	-5.876	-0.23	46320	-0.01	2000	
Si	28	1	No Gas	5.661	5.661	13.25	589521	0.00	2000	
Ag	107	1	No Gas	0.008	0.008	41.88	850	0.00	2000	
Cd	111	1	No Gas	0.001	0.001	224.22	9	0.02	2000	
Sr	88	1	No Gas	-0.103	-0.103	-1.59	1273	-0.01	2000	
Mo	95	1	No Gas	0.009	0.009	51.05	297	0.00	2000	
Sn	118	1	No Gas	-0.031	-0.031	-16.03	3844	0.00	2000	
Sb	121	1	No Gas	0.013	0.013	26.76	847	0.00	2000	
Ba	137	1	No Gas	-0.054	-0.054	-14.08	313	-0.02	2000	
Tl	205	1	No Gas	0.014	0.014	11.62	1087	0.00	2000	
Tl	203	1	No Gas	0.015	0.015	15.51	500	0.00	2000	
Pb	208	1	No Gas	0.008	0.008	34.76	2527	0.00	2000	
U	238	1	No Gas	0.002	0.002	93.85	673	0.00	2000	
Ca	43	2	He	-5.343	-5.343	-47.01	80	-6.68	200000	
Sb	121	2	He	0.012	0.012	87.03	413	0.00	2000	
Ti	47	2	He	0.025	0.025	149.65	23	0.11	2000	
Cu	63	1	No Gas	0.012	0.012	42.22	4477	0.00	2000	
Ca	44	1	No Gas	-10.208	-10.208	-7.34	67102	-0.02	200000	
Zn	66	1	No Gas	0.261	0.261	23.69	7172	0.00	2000	
Se	82	1	No Gas	-0.071	-0.071	-516.87	873	-0.01	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1322487	0.68	1303313	101.47	70	120	
Ge	72	2	He	1352246	1.03	1374323	98.39	70	120	
Ge	72	1	No Gas	4283115	0.34	4359458	98.25	70	120	

Sample Report

In	115	1	No Gas	4991209	0.91	5185395	96.26	70	120	
Bi	209	1	No Gas	4450972	0.41	4642203	95.88	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	123_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T16:11:59-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	98.897	2.551	2070349	2.07	100	98.9	90	110	
Be	9	1	No Gas	100.626	3.478	557971	2.93	100	100.6	90	110	
V	51	2	He	101.692	0.500	1218230	0.86	100	101.7	90	110	
Cr	52	2	He	101.399	0.716	1383573	0.94	100	101.4	90	110	
Fe	56	2	He	10015.968	1.554	128344721	1.55	10000	100.2	90	110	
Se	78	2	He	104.081	0.881	18933	1.31	100	104.1	90	110	
As	75	2	He	101.364	1.436	226805	1.61	100	101.4	90	110	
Ca	44	2	He	9996.045	1.080	737074	0.69	10000	100.0	90	110	
Na	23	2	He	10068.929	0.912	20296753	1.02	10000	100.7	90	110	
Mg	24	2	He	10106.841	1.287	12345790	1.28	10000	101.1	90	110	
K	39	2	He	10241.259	1.116	14076727	0.82	10000	102.4	90	110	
Mn	55	2	He	103.272	1.493	1031261	1.56	100	103.3	90	110	
Co	59	2	He	101.691	1.201	2198965	1.75	100	101.7	90	110	
Ni	60	2	He	100.986	1.322	564471	1.81	100	101.0	90	110	
Cu	63	2	He	101.144	0.726	1535645	1.08	100	101.1	90	110	
Zn	66	2	He	101.968	2.074	291056	2.04	100	102.0	90	110	
Al	27	2	He	99.840	1.576	82243	1.46	100	99.8	90	110	
B	11	1	No Gas	478.770	3.322	1715664	2.25	500	95.8	90	110	
Al	27	1	No Gas	101.520	1.893	2848968	2.14	100	101.5	90	110	
Si	28	1	No Gas	532.786	2.525	6088957	2.67	5000	10.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.467	1.491	3604141	1.68	100	101.5	90	110	
Cd	111	1	No Gas	100.892	1.958	698150	2.17	100	100.9	90	110	
Sr	88	1	No Gas	101.226	1.870	6514953	2.08	100	101.2	90	110	
Mo	95	1	No Gas	99.654	1.183	1311415	1.42	100	99.7	90	110	
Sn	118	1	No Gas	100.307	2.101	2213322	2.33	100	100.3	90	110	
Sb	121	1	No Gas	101.316	1.673	3172915	2.08	100	101.3	90	110	
Ba	137	1	No Gas	101.710	1.537	1092731	1.74	100	101.7	90	110	
Tl	205	1	No Gas	96.782	1.794	6244399	2.53	100	96.8	90	110	
Tl	203	1	No Gas	97.045	1.615	2639400	2.16	100	97.0	90	110	
Pb	208	1	No Gas	102.049	1.605	9230543	2.43	100	102.0	90	110	
U	238	1	No Gas	97.709	1.275	9012275	2.13	100	97.7	90	110	
Ca	43	2	He	10072.289	1.939	43134	2.08	10000	100.7	90	110	
Sb	121	2	He	101.089	1.362	1475338	0.93	100	101.1	90	110	
Ti	47	2	He	101.731	2.056	44368	1.48	100	101.7	90	110	
Cu	63	1	No Gas	105.059	2.287	2707567	2.64	100	105.1	90	110	
Se	82	1	No Gas	100.803	1.113	42708	1.19	100	100.8	90	110	
Zr	90	1	No Gas	82.925	0.879	3408751	1.11	100	82.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	81.485	0.712	1494955	0.88	100	81.5	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1398755	1.45	1303313	107.32	70	120	
Ge	72	2	He	1425308	0.59	1374323	103.71	70	120	
Ge	72	1	No Gas	4568035	0.43	4359458	104.78	70	120	
In	115	1	No Gas	5280344	0.24	5185395	101.83	70	120	
Bi	209	1	No Gas	4720191	0.92	4642203	101.68	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	124_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T16:14:25-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.037	54.4	81926	0.4	0.5	
Be	9	1	No Gas	0.013	47.9	92	38.7	0.5	
V	51	2	He	-0.105	-3.1	3519	1.9	2.5	
Cr	52	2	He	-0.175	-6.5	9830	1.6	2.5	
Fe	56	2	He	0.797	14.5	36602	4.8	100	
Se	78	2	He	-0.049	-102.0	211	3.8	2	
As	75	2	He	0.005	174.0	429	5.2	2.5	
Ca	44	2	He	-14.866	-16.7	1610	10.8	100	
Na	23	2	He	29.915	8.6	364467	1.5	100	
Mg	24	2	He	0.331	43.1	1733	9.4	100	
K	39	2	He	-3.802	-10.7	148712	1.1	100	
Mn	55	2	He	0.009	72.4	1063	5.3	2.5	
Co	59	2	He	0.001	199.2	133	41.3	2.5	
Ni	60	2	He	-0.047	-31.7	633	13.4	2.5	
Cu	63	2	He	-0.055	-12.0	1593	6.9	2	
Zn	66	2	He	-0.098	-53.6	1823	8.0	2.5	
Al	27	2	He	-4.990	-5.7	2327	10.6	5	
B	11	1	No Gas	3.097	14.8	27973	6.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-4.622	-1.8	84631	2.2	5	
Si	28	1	No Gas	4.464	12.6	635610	0.5	10	
Ag	107	1	No Gas	0.003	42.4	767	7.5	2.5	
Cd	111	1	No Gas	0.002	211.9	15	219.6	1	
Sr	88	1	No Gas	-0.070	-6.5	3624	7.7	2.5	
Mo	95	1	No Gas	0.072	32.8	1187	26.3	2.5	
Sn	118	1	No Gas	0.039	34.9	5875	4.4	5	
Sb	121	1	No Gas	0.072	7.9	2814	6.4	2.5	
Ba	137	1	No Gas	-0.027	-57.1	647	26.3	2.5	
Tl	205	1	No Gas	0.151	60.6	10346	59.4	1	
Tl	203	1	No Gas	0.145	60.5	4208	59.0	1	
Pb	208	1	No Gas	0.015	12.2	3487	5.2	2.5	
U	238	1	No Gas	0.008	13.0	1350	7.7	2.5	
Ca	43	2	He	-9.848	-65.6	67	43.3	100	
Sb	121	2	He	0.062	18.9	1190	15.6	2.5	
Ti	47	2	He	-0.017	-78.2	7	86.6	2.5	
Cu	63	1	No Gas	-0.030	-28.1	3791	5.9	2.5	
Se	82	1	No Gas	-0.032	-963.1	977	13.3	2	
Zr	90	1	No Gas	0.122	23.2	6792	16.9	2.5	
Zr	90	2	He	0.079	11.6	3334	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1463078	0.85	1303313	112.26	70	120	
Ge	72	2	He	1456448	0.99	1374323	105.98	70	120	
Ge	72	1	No Gas	4710889	0.50	4359458	108.06	70	120	

Continuing Calibration Blank (CCB) Report

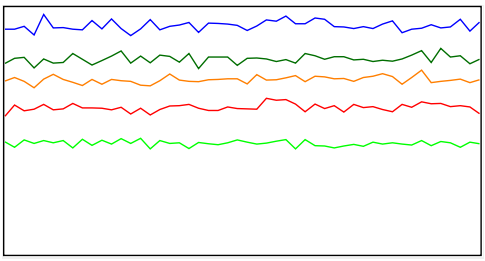
In	115	1	No Gas	5532983	1.04	5185395	106.70	70	120	
Bi	209	1	No Gas	4886899	0.28	4642203	105.27	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq. Date-Time	5/29/2024 9:35:18 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	5953	59527.56		
24	50000	22473	224733.36		
59	50000	46351	463513.99		
115	100000	70790	707899.43		
208	50000	39608	396079.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.560	5.000	
24	2.503	5.000	
59	2.052	5.000	
115	1.963	5.000	
208	2.151	5.000	

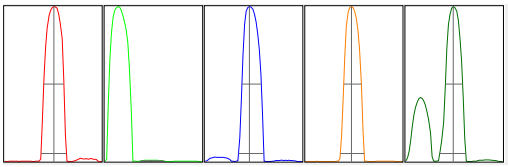
Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	3.000		
59	1.100		
115	1.000		
208	2.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.787 %
Doubly Charged	70 / 140 0.858 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6067.04	9.05	8.90 - 9.10	
24	22524.32	23.95	23.90 - 24.10	
59	47226.74	58.90	58.90 - 59.10	
115	71806.51	114.95	114.90 - 115.10	
208	39882.15	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779		
24	0.64	0.784		
59	0.60	0.776		
115	0.53	0.728		
208	0.53	0.795		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

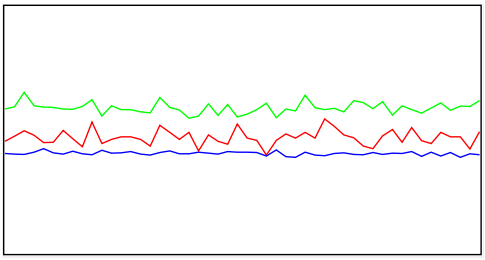
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	235	2348.39		
24	2000	1178	11779.88		
59	50000	20218	202178.21		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

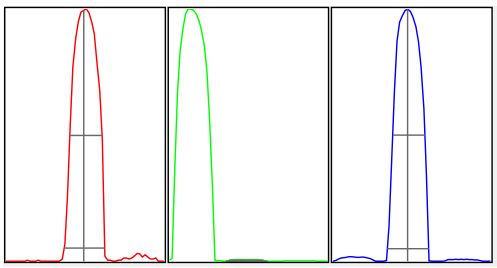
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.427	5.000	Fail
24	3.877	5.000	
59	1.847	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.700		
59	0.500		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.234 %
Doubly Charged	70 / 140 0.951 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	240.78	9.00	8.90 - 9.10	
24	1167.52	23.90	23.90 - 24.10	
59	20289.72	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.760		
24	0.64	0.778		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.775		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

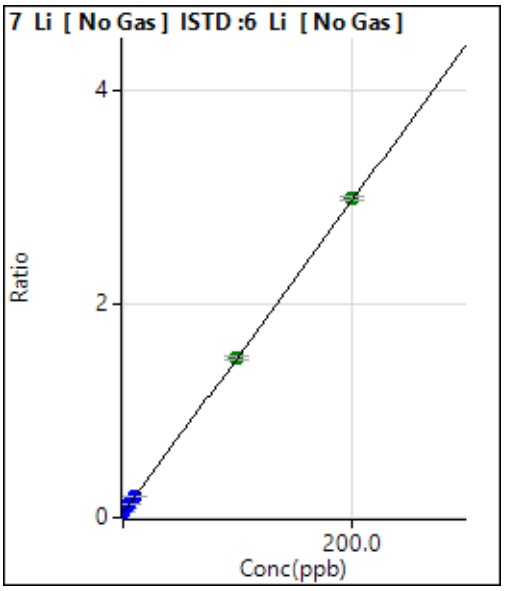
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

Calibration for 165_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\053024A.b\
Analysis File: 053024A.batch.bin
DA Date-Time: 5/30/2024 7:19:42 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

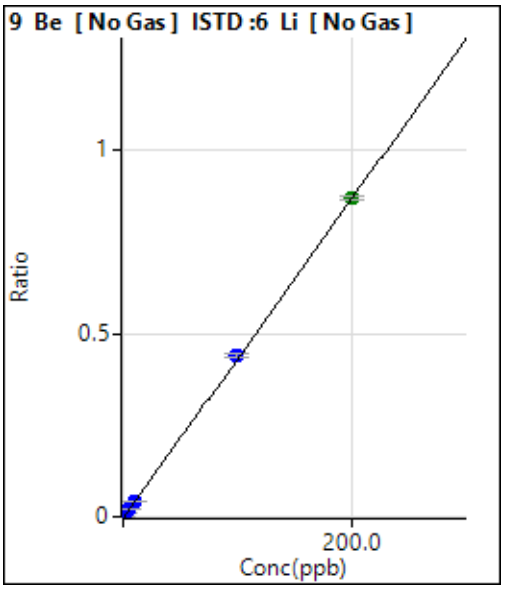
Level	Standard Data File	Sample Name	Acq. Date-Time
1	158CALB.d	CAL BLK	5/30/2024 7:01:23 PM
2	159CALS.d	2/10/200	5/30/2024 7:03:53 PM
3	160CALS.d	5/25/500	5/30/2024 7:06:24 PM
4	161CALS.d	10/50/100	5/30/2024 7:08:53 PM
5	162CALS.d	100/500/10K	5/30/2024 7:11:23 PM
6	163CALS.d	200/1000/20K	5/30/2024 7:13:54 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	58437.85	0.0581	P	1.0	
2	☐	2.000	2.022	84778.98	0.0876	P	0.6	1.1
3	☐	5.000	5.048	128715.20	0.1318	P	0.2	1.0
4	☐	10.000	9.808	196772.96	0.2012	P	1.5	-1.9
5	☐	100.000	98.546	1363385.24	1.4958	A	1.9	-1.5
6	☐	200.000	200.735	2597480.48	2.9866	A	1.2	0.4

y = 0.0146 * x + 0.0581
R = 1.0000
DL = 0.1146 ppb
BEC = 3.983 ppb

Weight: <None>
Min Conc: <None>

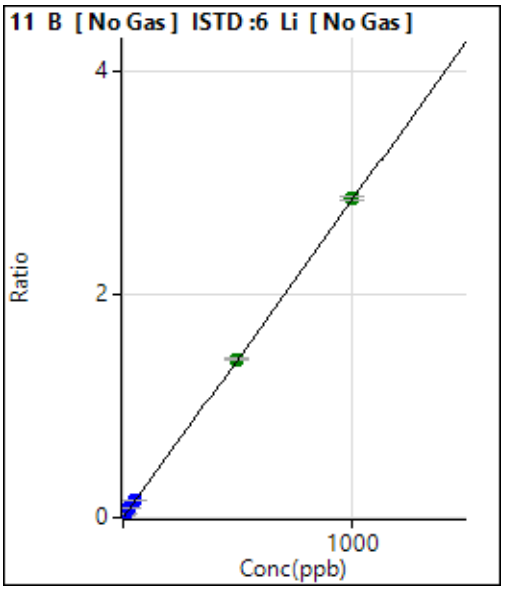


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28.33	0.0000	P	9.7	
2	☐	2.000	1.983	8400.87	0.0087	P	1.5	-0.8
3	☐	5.000	4.843	20671.75	0.0212	P	0.7	-3.1
4	☐	10.000	9.809	41888.14	0.0428	P	3.8	-1.9
5	☐	100.000	100.883	401217.25	0.4402	P	2.0	0.9
6	☐	200.000	199.572	757324.34	0.8708	A	1.6	-0.2

y = 0.0044 * x + 2.8164E-005
R = 1.0000
DL = 0.001878 ppb
BEC = 0.006455 ppb

Weight: <None>
Min Conc: <None>

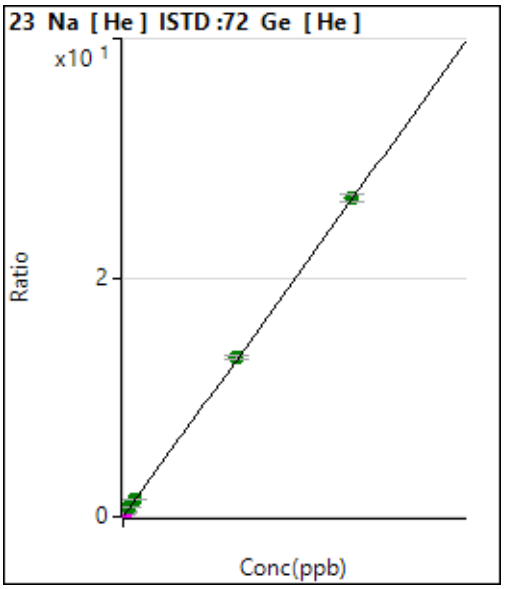
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11946.75	0.0119	P	1.3	
2	☐	10.000	9.889	38681.04	0.0400	P	1.9	-1.1
3	☐	25.000	24.208	78787.53	0.0806	P	0.5	-3.2
4	☐	50.000	48.267	145720.51	0.1490	P	1.6	-3.5
5	☐	500.000	495.396	1293437.04	1.4192	A	1.7	-0.9
6	☐	1000.000	1002.410	2487021.42	2.8595	A	1.3	0.2

y = 0.0028 * x + 0.0119
R = 1.0000
DL = 0.1581 ppb
BEC = 4.182 ppb

Weight: <None>
Min Conc: <None>

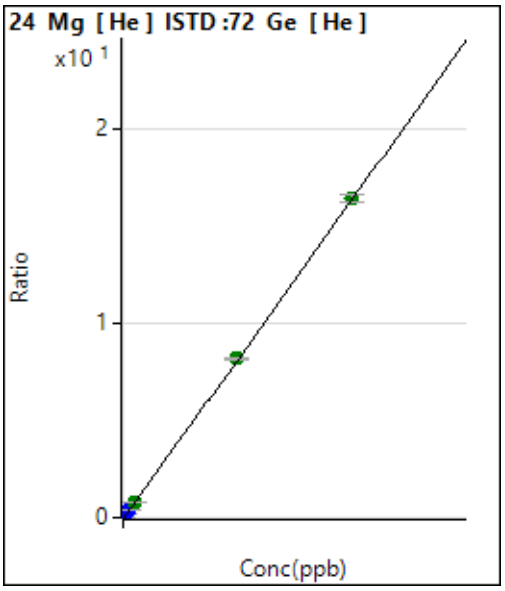


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	170873.35	0.1323	P	1.1	
2	☐	200.000	201.887	518594.94	0.4003	M	2.4	0.9
3	☐	500.000	497.999	1034966.73	0.7933	A	2.6	-0.4
4	☐	1000.000	1007.459	1924828.77	1.4695	A	2.2	0.7
5	☐	10000.00	9975.201	17184368.08	13.3722	A	1.8	-0.2
6	☐	20000.00	20012.05	33880042.00	26.6940	A	2.0	0.1

y = 0.0013 * x + 0.1323
R = 1.0000
DL = 3.325 ppb
BEC = 99.69 ppb

Weight: <None>
Min Conc: <None>

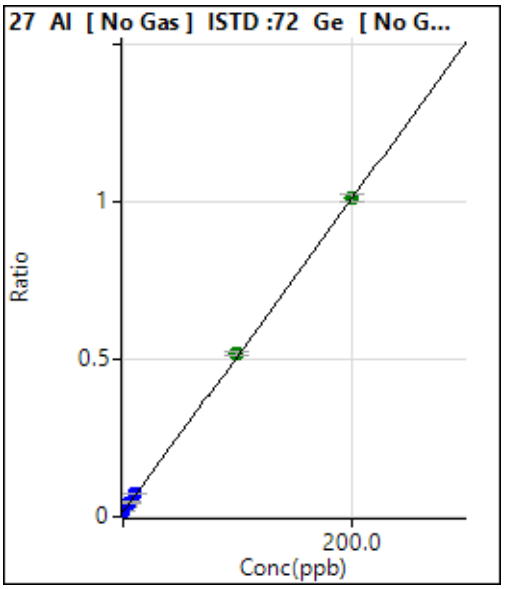
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.08	0.0010	P	4.6	
2	☐	200.000	202.775	216807.64	0.1673	P	1.9	1.4
3	☐	500.000	512.262	549567.53	0.4212	P	2.8	2.5
4	☐	1000.000	1015.071	1092269.28	0.8338	A	0.7	1.5
5	☐	10000.00	9970.247	10513799.84	8.1812	A	1.9	-0.3
6	☐	20000.00	20013.78	20842010.10	16.4216	A	2.1	0.1

y = 8.2047E-004 * x + 9.5250E-004
R = 1.0000
DL = 0.1601 ppb
BEC = 1.161 ppb

Weight: <None>
Min Conc: <None>

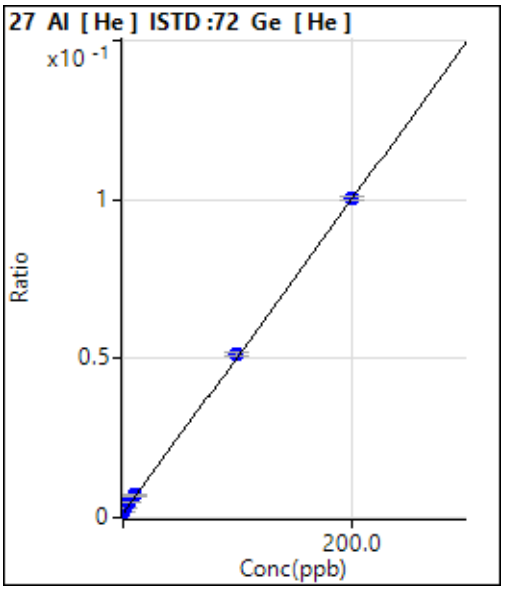


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78354.36	0.0193	P	2.7	
2	☐	2.000	2.880	136379.32	0.0337	P	21.6	44.0
3	☐	5.000	5.281	186448.31	0.0456	P	2.2	5.6
4	☐	10.000	10.493	290202.46	0.0716	P	0.2	4.9
5	☐	100.000	100.672	2078973.35	0.5204	A	2.4	0.7
6	☐	200.000	199.624	3945447.44	1.0130	A	3.0	-0.2

y = 0.0050 * x + 0.0193
R = 1.0000
DL = 0.3139 ppb
BEC = 3.883 ppb

Weight: <None>
Min Conc: <None>

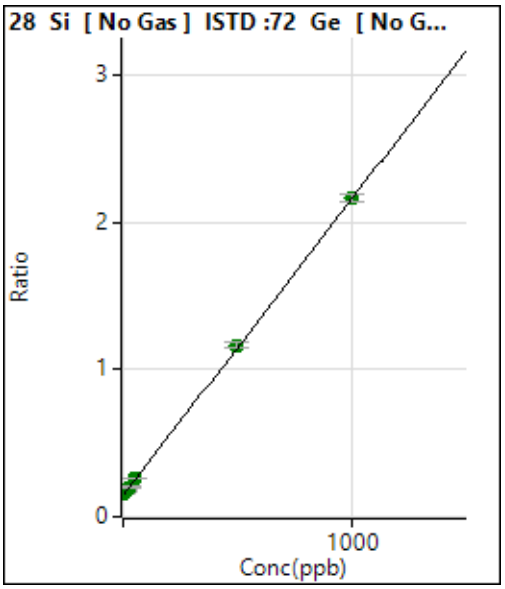
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2410.26	0.0019	P	1.7	
2	☐	2.000	2.564	4060.67	0.0031	P	0.9	28.2
3	☐	5.000	5.583	6034.71	0.0046	P	2.0	11.7
4	☐	10.000	10.490	9236.50	0.0071	P	5.7	4.9
5	☐	100.000	100.457	66202.52	0.0515	P	2.1	0.5
6	☐	200.000	199.727	127653.56	0.1006	P	1.5	-0.1

y = 4.9422E-004 * x + 0.0019
R = 1.0000
DL = 0.1886 ppb
BEC = 3.776 ppb

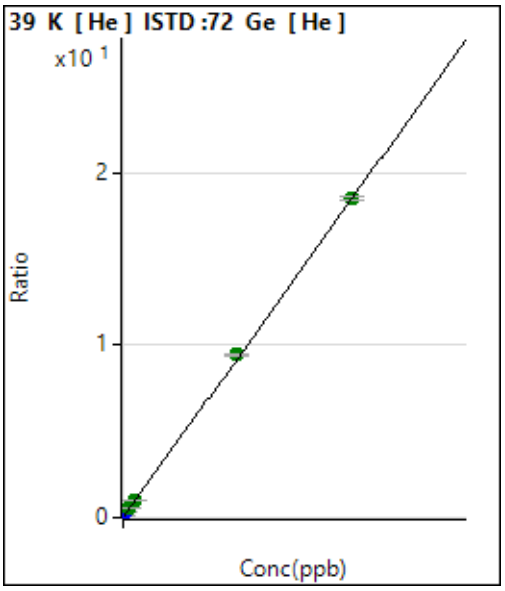
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	632122.54	0.1559	A	3.0	
2	☐	10.000	9.996	713463.56	0.1761	A	3.6	0.0
3	☐	25.000	22.992	826502.18	0.2022	A	1.3	-8.0
4	☐	50.000	50.844	1047244.36	0.2583	A	1.9	1.7
5	☐	500.000	502.394	4661186.81	1.1669	A	2.8	0.5
6	☐	1000.000	998.811	8435325.71	2.1657	A	2.8	-0.1

y = 0.0020 * x + 0.1559
R = 1.0000
DL = 7.039 ppb
BEC = 77.5 ppb

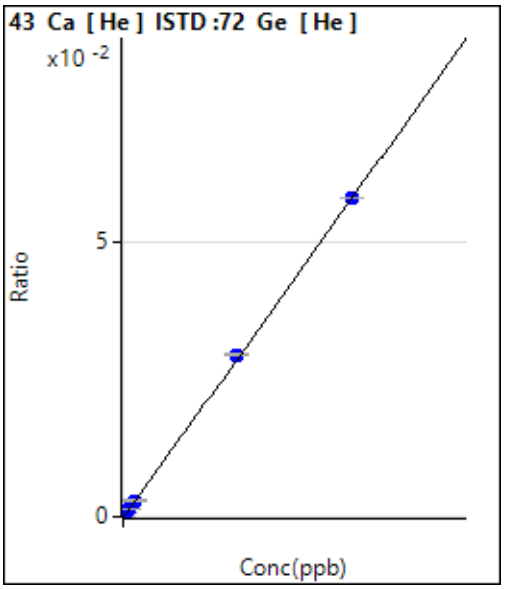
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143645.26	0.1112	P	1.1	
2	☐	200.000	203.601	387360.12	0.2989	P	0.6	1.8
3	☐	500.000	504.265	751663.27	0.5761	A	2.0	0.9
4	☐	1000.000	1005.540	1360113.94	1.0383	A	0.5	0.6
5	☐	10000.00	10115.25	12127283.99	9.4368	A	1.6	1.2
6	☐	20000.00	19941.95	23476001.32	18.4963	A	1.6	-0.3

y = 9.2193E-004 * x + 0.1112
R = 1.0000
DL = 3.977 ppb
BEC = 120.6 ppb

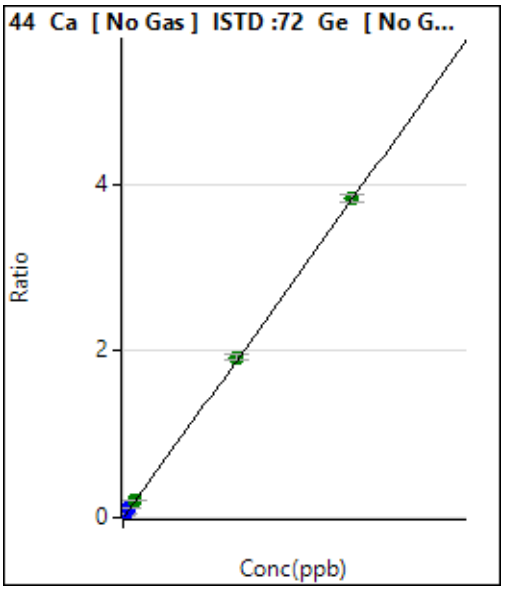
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0000	P	72.0	
2	☐	200.000	205.119	826.71	0.0006	P	16.6	2.6
3	☐	500.000	505.945	1976.84	0.0015	P	5.6	1.2
4	☐	1000.000	1005.191	3893.95	0.0030	P	5.9	0.5
5	☐	10000.00	10122.20	38019.01	0.0296	P	1.1	1.2
6	☐	20000.00	19938.43	73923.04	0.0582	P	0.3	-0.3

y = 2.9190E-006 * x + 3.8612E-005
R = 1.0000
DL = 28.57 ppb
BEC = 13.23 ppb

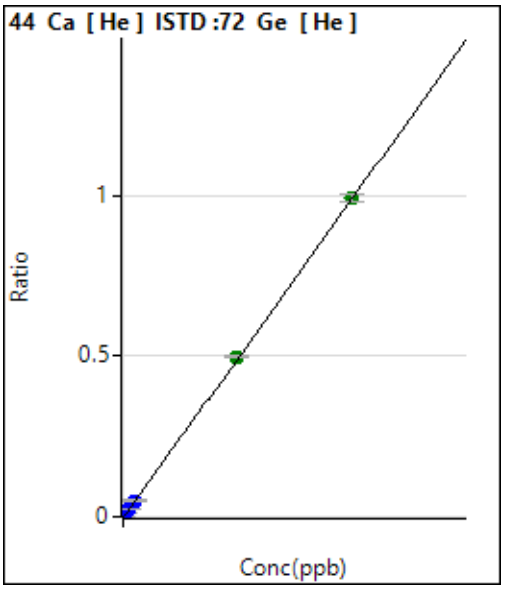
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54175.60	0.0134	P	3.0	
2	☐	200.000	217.311	222104.82	0.0548	P	2.5	8.7
3	☐	500.000	534.979	471611.54	0.1154	P	2.5	7.0
4	☐	1000.000	1021.408	844148.24	0.2082	A	0.5	2.1
5	☐	10000.00	9993.899	7666596.14	1.9193	A	3.3	-0.1
6	☐	20000.00	20000.93	14908613.53	3.8277	A	2.9	0.0

y = 1.9071E-004 * x + 0.0134
R = 1.0000
DL = 6.237 ppb
BEC = 70.08 ppb

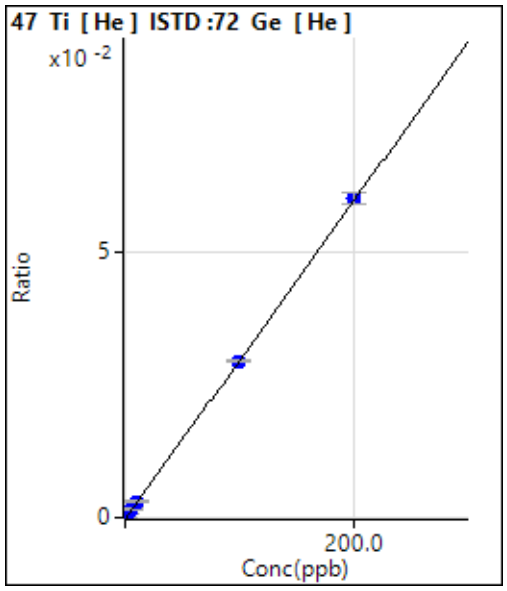
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1586.79	0.0012	P	0.6	
2	☐	200.000	200.589	14474.45	0.0112	P	1.5	0.3
3	☐	500.000	491.124	33356.96	0.0256	P	1.6	-1.8
4	☐	1000.000	997.804	66391.58	0.0507	P	1.8	-0.2
5	☐	10000.00	10026.71	640059.82	0.4981	A	1.0	0.3
6	☐	20000.00	19986.96	1258669.96	0.9917	A	1.9	-0.1

y = 4.9555E-005 * x + 0.0012
R = 1.0000
DL = 0.4114 ppb
BEC = 24.79 ppb

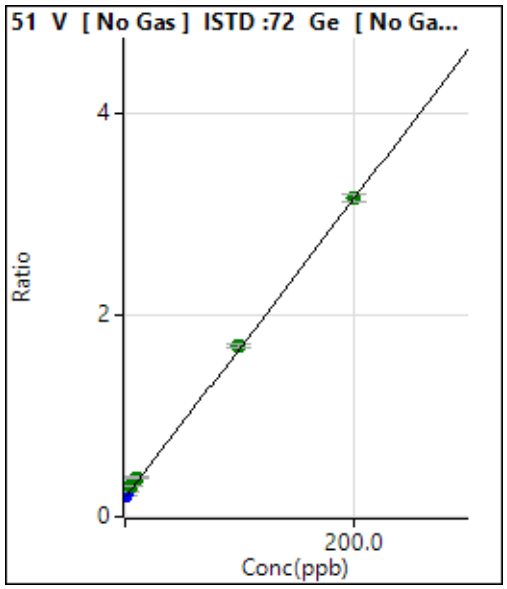
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.1	
2	☐	2.000	2.065	816.71	0.0006	P	9.7	3.2
3	☐	5.000	5.223	2053.53	0.0016	P	15.1	4.5
4	☐	10.000	10.105	3977.31	0.0030	P	3.3	1.1
5	☐	100.000	98.389	37831.82	0.0294	P	2.0	-1.6
6	☐	200.000	200.794	76239.29	0.0601	P	3.5	0.4

y = 2.9913E-004 * x + 1.2894E-005
R = 1.0000
DL = 0.08933 ppb
BEC = 0.04311 ppb

Weight: <None>
Min Conc: <None>

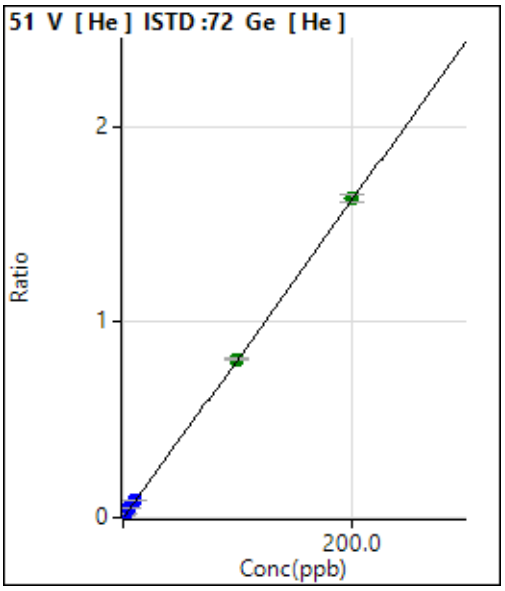


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	824072.00	0.2032	P	0.6	
2	☐	2.000	2.884	996910.03	0.2460	P	0.3	44.2
3	☐	5.000	6.769	1240782.29	0.3036	A	1.3	35.4
4	☐	10.000	12.605	1581743.59	0.3901	A	1.2	26.1
5	☐	100.000	100.213	6744823.79	1.6885	A	2.4	0.2
6	☐	200.000	199.710	12319746.51	3.1631	A	3.0	-0.1

y = 0.0148 * x + 0.2032
R = 0.9999
DL = 0.2334 ppb
BEC = 13.71 ppb

Weight: <None>
Min Conc: <None>

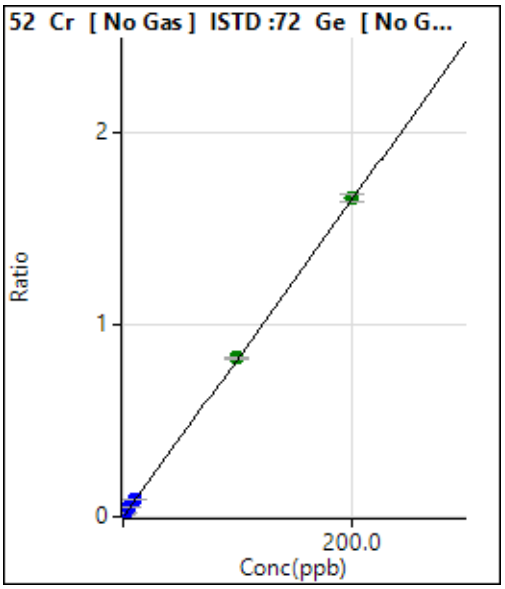
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6563.81	0.0051	P	3.3	
2	☐	2.000	2.039	28061.69	0.0217	P	1.3	2.0
3	☐	5.000	5.095	60658.80	0.0465	P	2.0	1.9
4	☐	10.000	10.089	114072.22	0.0871	P	1.5	0.9
5	☐	100.000	99.256	1043161.14	0.8118	A	0.4	-0.7
6	☐	200.000	200.365	2073342.77	1.6336	A	2.3	0.2

y = 0.0081 * x + 0.0051
R = 1.0000
DL = 0.06182 ppb
BEC = 0.6254 ppb

Weight: <None>
Min Conc: <None>

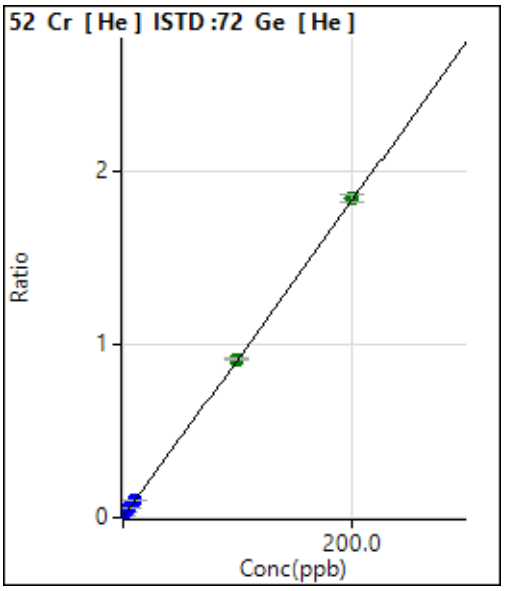


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27243.87	0.0067	P	1.6	
2	☐	2.000	2.096	97240.00	0.0240	P	1.3	4.8
3	☐	5.000	5.200	202627.50	0.0496	P	1.7	4.0
4	☐	10.000	10.396	374722.25	0.0924	P	0.8	4.0
5	☐	100.000	99.211	3293285.57	0.8244	A	2.1	-0.8
6	☐	200.000	200.369	6458294.90	1.6581	A	2.6	0.2

y = 0.0082 * x + 0.0067
R = 1.0000
DL = 0.03973 ppb
BEC = 0.8153 ppb

Weight: <None>
Min Conc: <None>

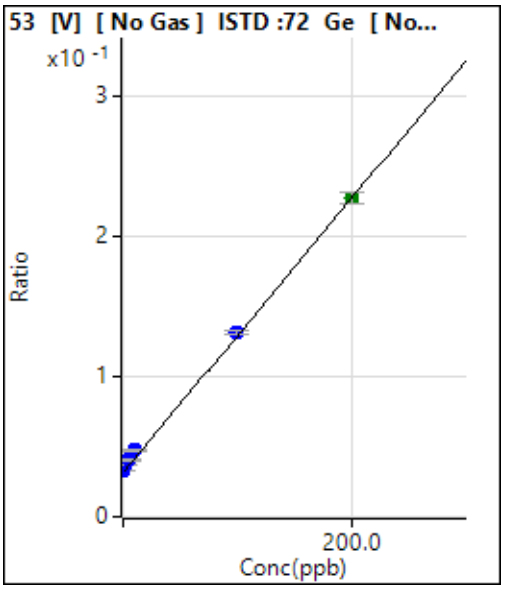
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12976.31	0.0100	P	2.3	
2	☐	2.000	2.053	37417.70	0.0289	P	2.7	2.7
3	☐	5.000	5.035	73330.68	0.0562	P	2.8	0.7
4	☐	10.000	10.253	136290.72	0.1040	P	2.0	2.5
5	☐	100.000	98.744	1176237.61	0.9153	A	1.0	-1.3
6	☐	200.000	200.614	2347133.30	1.8493	A	2.9	0.3

y = 0.0092 * x + 0.0100
R = 1.0000
DL = 0.07717 ppb
BEC = 1.096 ppb

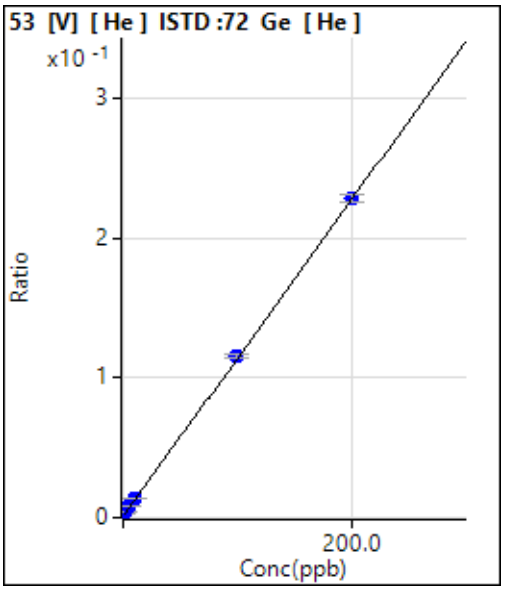
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132422.37	0.0327	P	0.6	
2	☐	2.000	4.042	148371.25	0.0366	P	0.3	102.1
3	☐	5.000	8.024	165559.36	0.0405	P	1.3	60.5
4	☐	10.000	14.921	191581.53	0.0472	P	1.8	49.2
5	☐	100.000	101.319	526173.57	0.1317	P	1.9	1.3
6	☐	200.000	198.999	884973.94	0.2272	A	3.2	-0.5

y = 9.7768E-004 * x + 0.0327
R = 0.9998
DL = 0.6437 ppb
BEC = 33.4 ppb

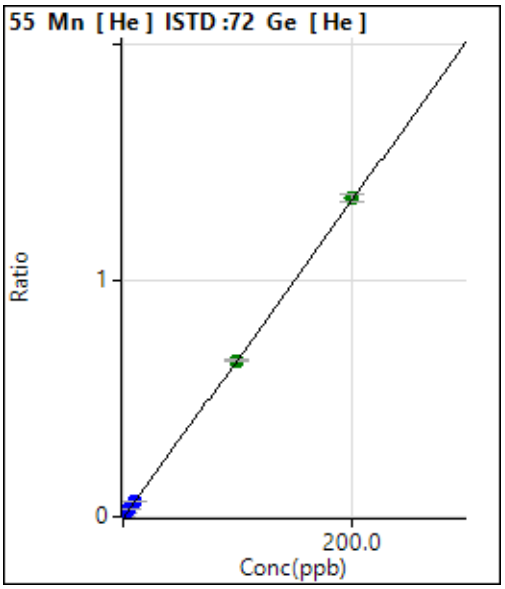
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2766.99	0.0021	P	4.8	
2	☐	2.000	2.181	5978.08	0.0046	P	2.7	9.1
3	☐	5.000	5.067	10283.98	0.0079	P	3.2	1.3
4	☐	10.000	10.265	18045.30	0.0138	P	2.9	2.7
5	☐	100.000	100.362	148868.66	0.1159	P	1.8	0.4
6	☐	200.000	199.802	290029.43	0.2285	P	3.0	-0.1

y = 0.0011 * x + 0.0021
R = 1.0000
DL = 0.2715 ppb
BEC = 1.891 ppb

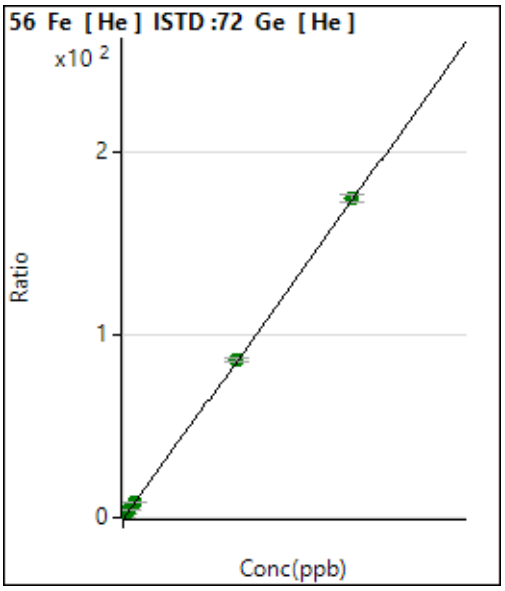
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0007	P	6.6	
2	☐	2.000	1.998	18292.46	0.0141	P	2.8	-0.1
3	☐	5.000	5.037	45067.10	0.0345	P	2.2	0.7
4	☐	10.000	10.081	89650.30	0.0684	P	1.9	0.8
5	☐	100.000	98.359	850249.91	0.6616	A	1.7	-1.6
6	☐	200.000	200.816	1713614.35	1.3501	A	2.3	0.4

y = 0.0067 * x + 6.9447E-004
R = 1.0000
DL = 0.02052 ppb
BEC = 0.1033 ppb

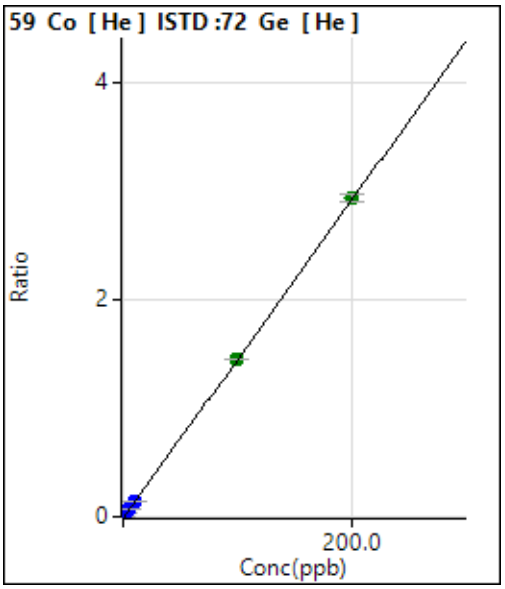
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18072.09	0.0140	P	3.9	
2	☐	200.000	197.613	2252281.32	1.7382	A	1.9	-1.2
3	☐	500.000	496.295	5667810.54	4.3443	A	2.4	-0.7
4	☐	1000.000	1000.621	11456180.66	8.7446	A	1.6	0.1
5	☐	10000.00	9875.354	110749751.6	86.1787	A	2.2	-1.2
6	☐	20000.00	20062.40	222190563.3	175.063	A	2.0	0.3

y = 0.0087 * x + 0.0140
R = 1.0000
DL = 0.1856 ppb
BEC = 1.604 ppb

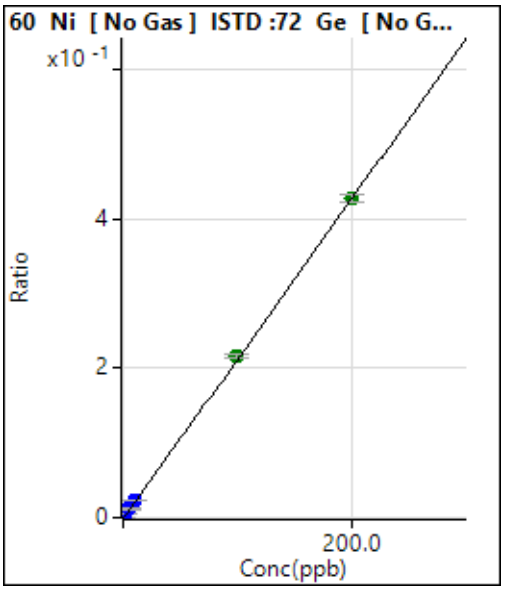
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	28.6	
2	☐	2.000	2.047	38965.32	0.0301	P	1.0	2.4
3	☐	5.000	5.077	97181.36	0.0745	P	2.7	1.5
4	☐	10.000	10.168	195374.72	0.1491	P	0.2	1.7
5	☐	100.000	99.078	1866737.94	1.4526	A	0.6	-0.9
6	☐	200.000	200.450	3729977.76	2.9389	A	2.7	0.2

y = 0.0147 * x + 5.6817E-005
R = 1.0000
DL = 0.003323 ppb
BEC = 0.003875 ppb

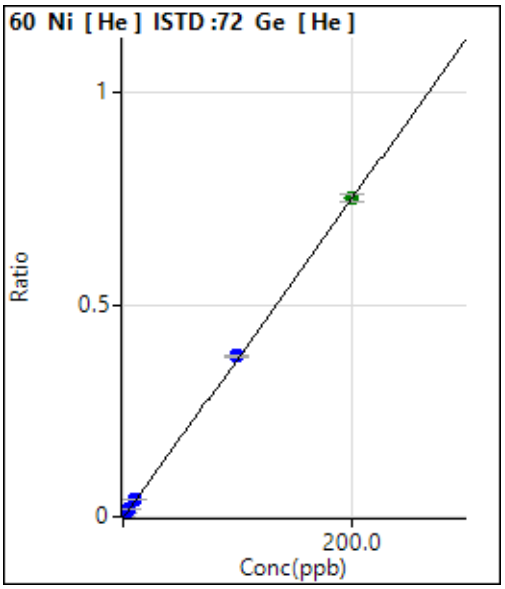
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	946.72	0.0002	P	8.5	
2	☐	2.000	2.096	19136.96	0.0047	P	3.3	4.8
3	☐	5.000	5.309	47435.32	0.0116	P	2.0	6.2
4	☐	10.000	10.628	93278.47	0.0230	P	1.3	6.3
5	☐	100.000	101.194	866918.71	0.2170	A	2.3	1.2
6	☐	200.000	199.363	1664285.03	0.4273	A	2.6	-0.3

y = 0.0021 * x + 2.3358E-004
R = 1.0000
DL = 0.02792 ppb
BEC = 0.109 ppb

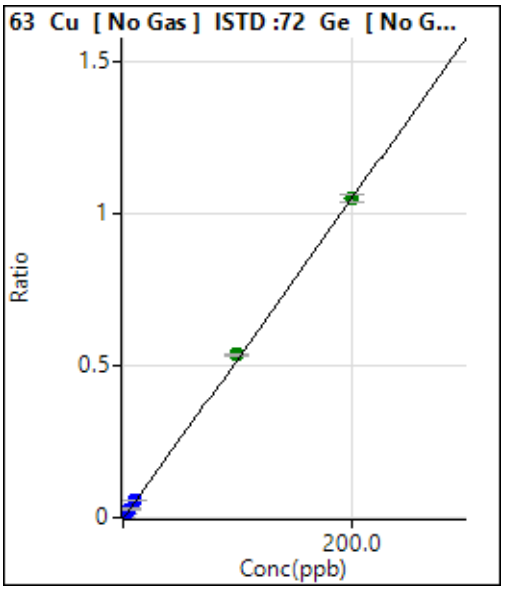
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	513.35	0.0004	P	9.3	
2	☐	2.000	2.022	10380.78	0.0080	P	1.7	1.1
3	☐	5.000	4.999	25076.50	0.0192	P	2.1	0.0
4	☐	10.000	10.381	51734.50	0.0395	P	2.0	3.8
5	☐	100.000	100.600	487234.95	0.3792	P	0.5	0.6
6	☐	200.000	199.681	954748.81	0.7522	A	2.0	-0.2

y = 0.0038 * x + 3.9752E-004
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1056 ppb

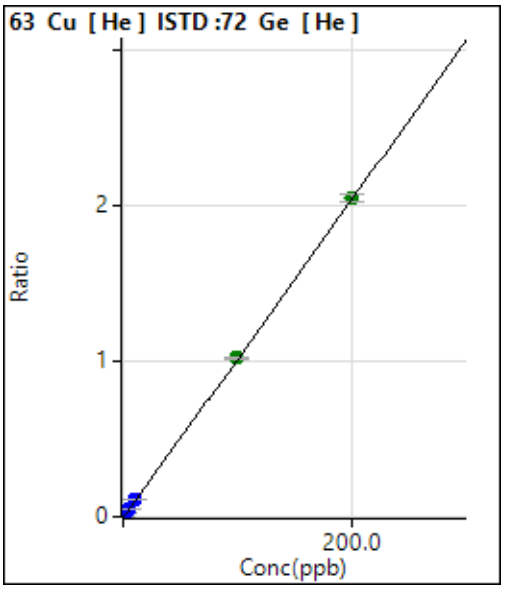
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2290.23	0.0006	P	8.1	
2	☐	2.000	2.100	47224.79	0.0117	P	1.1	5.0
3	☐	5.000	5.285	116366.33	0.0285	P	1.8	5.7
4	☐	10.000	10.634	229977.98	0.0567	P	1.5	6.3
5	☐	100.000	101.424	2141517.16	0.5361	A	2.1	1.4
6	☐	200.000	199.248	4099708.27	1.0526	A	2.7	-0.4

y = 0.0053 * x + 5.6451E-004
R = 1.0000
DL = 0.02591 ppb
BEC = 0.1069 ppb

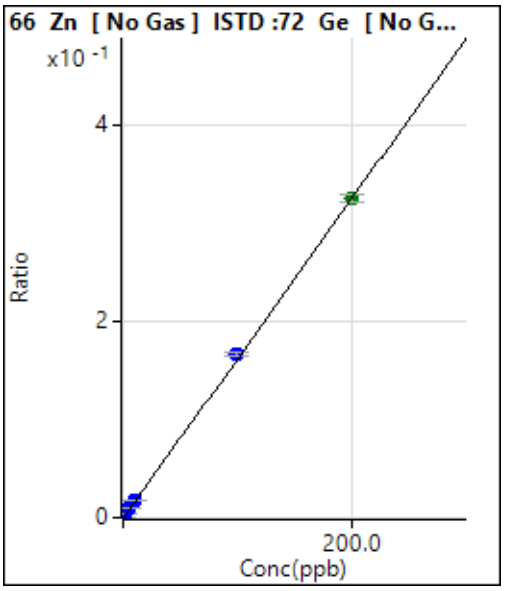
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0013	P	4.9	
2	☐	2.000	2.076	29174.70	0.0225	P	1.6	3.8
3	☐	5.000	5.043	68956.58	0.0529	P	2.4	0.9
4	☐	10.000	10.266	139223.52	0.1063	P	1.8	2.7
5	☐	100.000	99.703	1311930.16	1.0209	A	0.7	-0.3
6	☐	200.000	200.133	2599343.45	2.0480	A	2.0	0.1

y = 0.0102 * x + 0.0013
R = 1.0000
DL = 0.01843 ppb
BEC = 0.1257 ppb

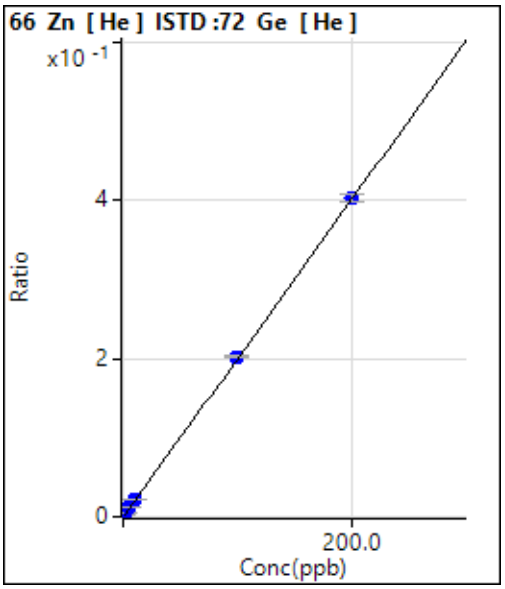
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3850.60	0.0009	P	5.8	
2	☐	2.000	2.037	17314.54	0.0043	P	1.3	1.9
3	☐	5.000	5.060	37625.36	0.0092	P	0.8	1.2
4	☐	10.000	10.099	70672.41	0.0174	P	2.8	1.0
5	☐	100.000	101.475	665130.82	0.1665	P	1.9	1.5
6	☐	200.000	199.256	1269833.68	0.3260	A	2.3	-0.4

y = 0.0016 * x + 9.4926E-004
R = 1.0000
DL = 0.101 ppb
BEC = 0.5819 ppb

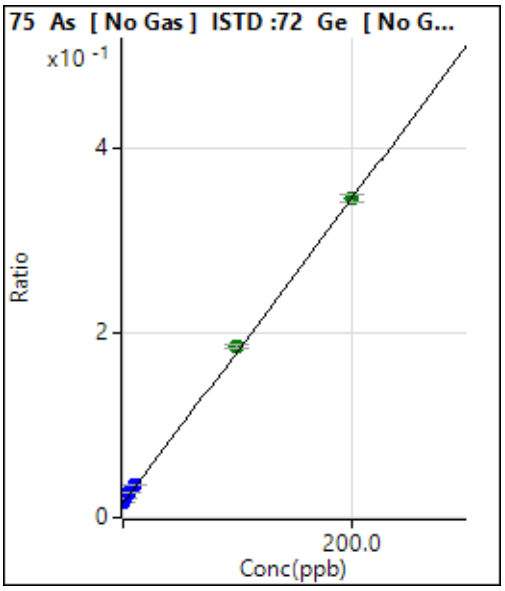
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1686.80	0.0013	P	5.6	
2	☐	2.000	1.932	6725.10	0.0052	P	5.3	-3.4
3	☐	5.000	4.997	14811.60	0.0114	P	4.0	-0.1
4	☐	10.000	9.976	27985.59	0.0214	P	1.8	-0.2
5	☐	100.000	100.067	260236.51	0.2025	P	0.9	0.1
6	☐	200.000	199.969	511962.66	0.4034	P	2.2	0.0

y = 0.0020 * x + 0.0013
R = 1.0000
DL = 0.1081 ppb
BEC = 0.6494 ppb

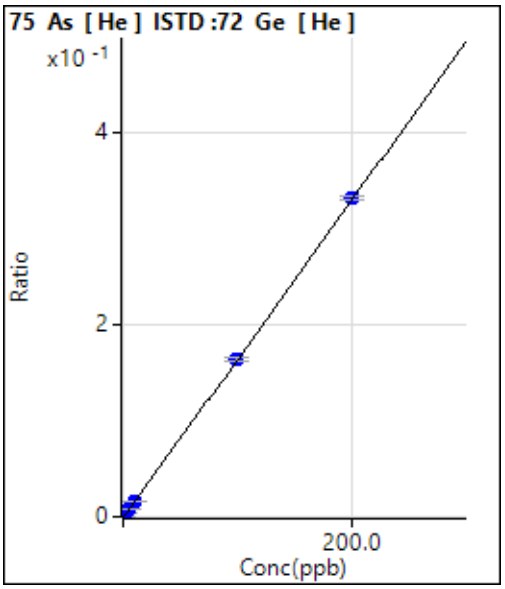
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70153.55	0.0173	P	1.1	
2	☐	2.000	2.444	86469.70	0.0213	P	0.9	22.2
3	☐	5.000	5.824	110037.69	0.0269	P	1.2	16.5
4	☐	10.000	11.466	146934.06	0.0362	P	1.1	14.7
5	☐	100.000	101.338	737597.02	0.1846	A	2.2	1.3
6	☐	200.000	199.232	1348779.25	0.3463	A	2.2	-0.4

y = 0.0017 * x + 0.0173
R = 1.0000
DL = 0.3492 ppb
BEC = 10.48 ppb

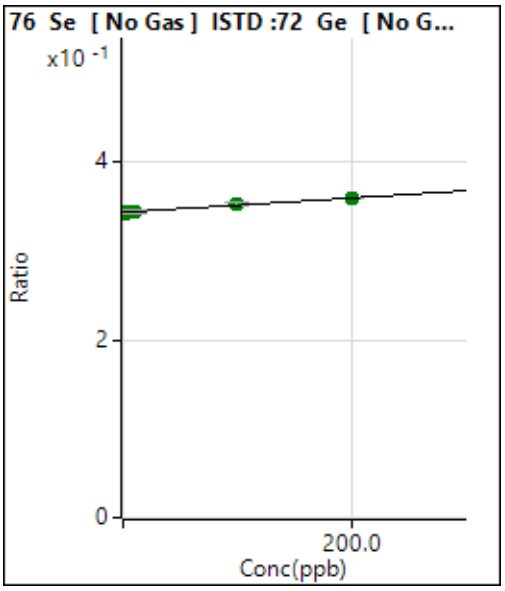
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	502.24	0.0004	P	7.6	
2	☐	2.000	1.887	4549.67	0.0035	P	3.3	-5.6
3	☐	5.000	4.890	11062.30	0.0085	P	3.8	-2.2
4	☐	10.000	9.908	21984.36	0.0168	P	1.3	-0.9
5	☐	100.000	98.982	210985.62	0.1642	P	1.9	-1.0
6	☐	200.000	200.517	421635.64	0.3322	P	1.4	0.3

y = 0.0017 * x + 3.8890E-004
R = 1.0000
DL = 0.05345 ppb
BEC = 0.235 ppb

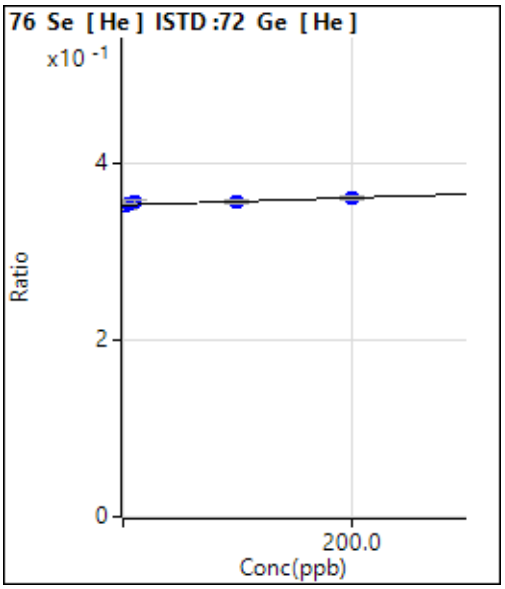
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1391855.08	0.3433	A	0.4	
2	☐	2.000	-31.414	1380959.72	0.3408	A	0.6	-1670.7
3	☐	5.000	3.273	1404391.39	0.3436	A	0.3	-34.5
4	☐	10.000	-4.528	1390607.53	0.3429	A	1.2	-145.3
5	☐	100.000	114.007	1408397.95	0.3525	A	0.8	14.0
6	☐	200.000	194.100	1398523.26	0.3590	A	0.4	-2.9

y = 8.1095E-005 * x + 0.3433
R = 0.9854
DL = 55.47 ppb
BEC = 4233 ppb

Weight: <None>
Min Conc: <None>

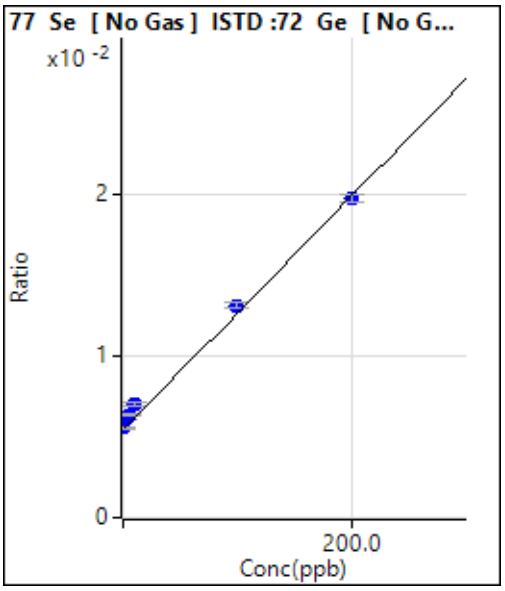


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	455682.83	0.3528	P	0.8	
2	☐	2.000	-32.809	455357.86	0.3515	P	1.9	-1740.5
3	☐	5.000	14.699	461189.09	0.3535	P	1.2	194.0
4	☐	10.000	73.813	466279.03	0.3560	P	1.2	638.1
5	☐	100.000	106.076	459200.46	0.3573	P	1.1	6.1
6	☐	200.000	193.877	458239.46	0.3610	P	0.7	-3.1

y = 4.2187E-005 * x + 0.3528
R = 0.9235
DL = 211.7 ppb
BEC = 8364 ppb

Weight: <None>
Min Conc: <None>

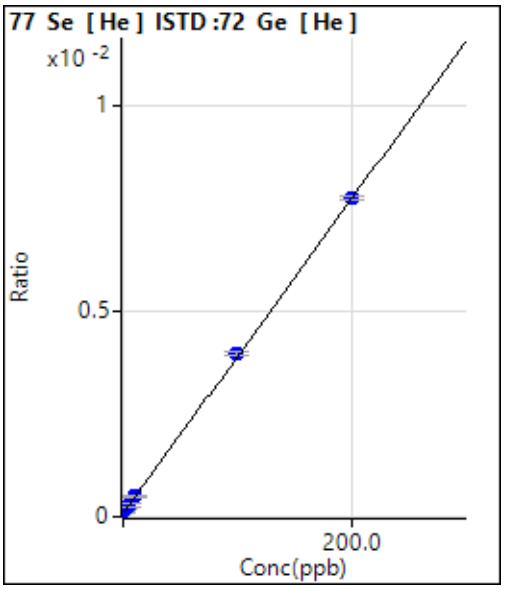
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22512.25	0.0056	P	3.1	
2	☐	2.000	7.500	24702.76	0.0061	P	1.4	275.0
3	☐	5.000	11.172	26005.12	0.0064	P	2.4	123.4
4	☐	10.000	20.306	28473.37	0.0070	P	3.9	103.1
5	☐	100.000	105.259	52635.10	0.0132	P	2.4	5.3
6	☐	200.000	196.646	77107.73	0.0198	P	2.5	-1.7

y = 7.2441E-005 * x + 0.0056
R = 0.9989
DL = 7.097 ppb
BEC = 76.64 ppb

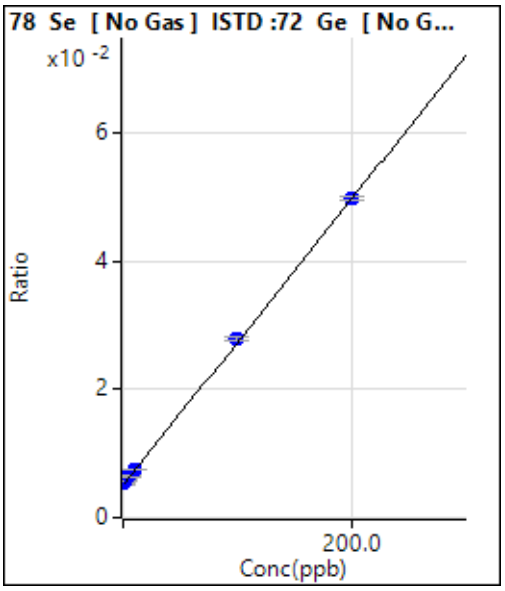
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	13.6	
2	☐	2.000	2.210	263.34	0.0002	P	19.5	10.5
3	☐	5.000	4.296	370.01	0.0003	P	32.6	-14.1
4	☐	10.000	10.046	660.03	0.0005	P	5.6	0.5
5	☐	100.000	101.032	5127.71	0.0040	P	2.2	1.0
6	☐	200.000	199.497	9853.69	0.0078	P	1.7	-0.3

y = 3.8317E-005 * x + 1.1873E-004
R = 1.0000
DL = 1.264 ppb
BEC = 3.099 ppb

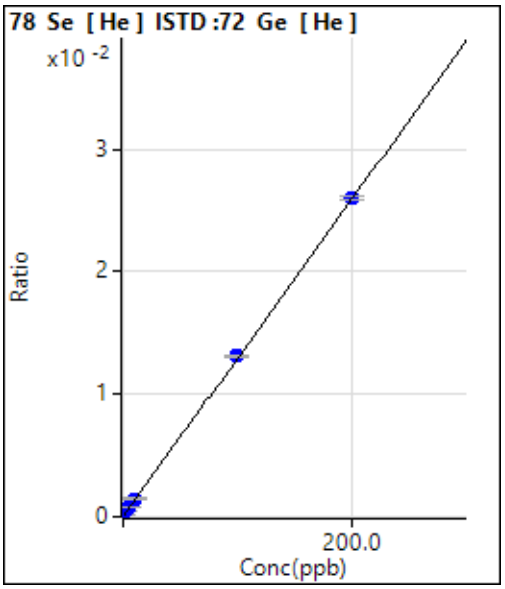
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21560.68	0.0053	P	4.5	
2	☐	2.000	2.267	23607.44	0.0058	P	0.8	13.3
3	☐	5.000	5.154	26435.98	0.0065	P	3.8	3.1
4	☐	10.000	10.081	30681.52	0.0076	P	1.7	0.8
5	☐	100.000	101.344	111477.83	0.0279	P	1.6	1.3
6	☐	200.000	199.317	193737.10	0.0497	P	1.3	-0.3

y = 2.2286E-004 * x + 0.0053
R = 1.0000
DL = 3.227 ppb
BEC = 23.87 ppb

Weight: <None>
Min Conc: <None>

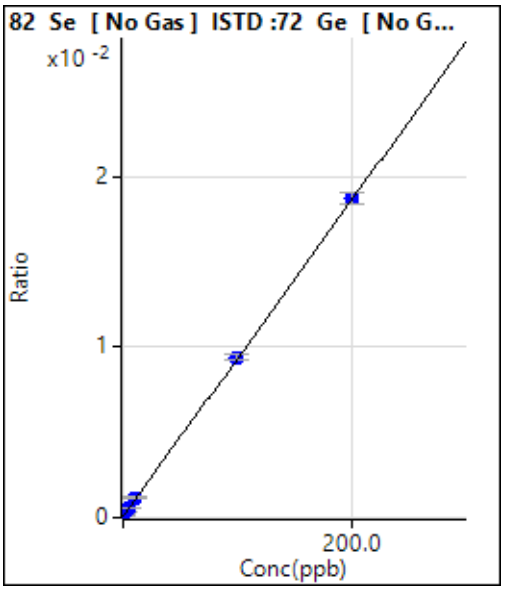


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	214.00	0.0002	P	11.7	
2	☐	2.000	2.029	554.68	0.0004	P	5.8	1.5
3	☐	5.000	4.569	987.37	0.0008	P	2.4	-8.6
4	☐	10.000	10.071	1922.81	0.0015	P	6.1	0.7
5	☐	100.000	100.061	16846.42	0.0131	P	2.0	0.1
6	☐	200.000	199.976	33039.92	0.0260	P	1.6	0.0

y = 1.2935E-004 * x + 1.6578E-004
R = 1.0000
DL = 0.4491 ppb
BEC = 1.282 ppb

Weight: <None>
Min Conc: <None>

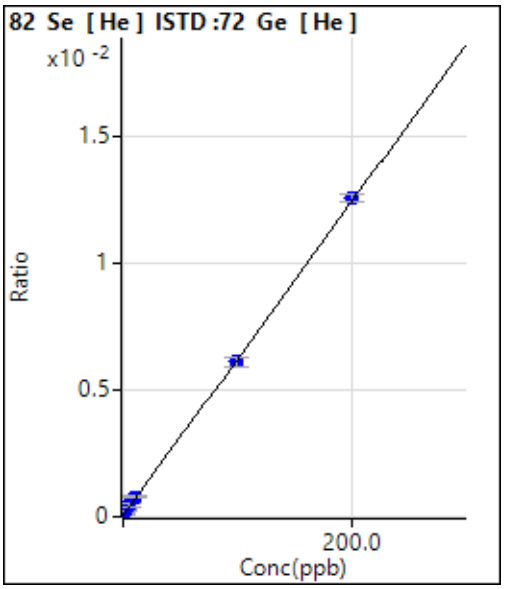
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	676.69	0.0002	P	7.9	
2	☐	2.000	2.111	1470.11	0.0004	P	6.2	5.5
3	☐	5.000	4.661	2450.26	0.0006	P	5.8	-6.8
4	☐	10.000	10.640	4684.23	0.0012	P	7.6	6.4
5	☐	100.000	99.727	37652.70	0.0094	P	3.1	-0.3
6	☐	200.000	200.112	73016.26	0.0187	P	3.0	0.1

y = 9.2849E-005 * x + 1.6679E-004
R = 1.0000
DL = 0.4239 ppb
BEC = 1.796 ppb

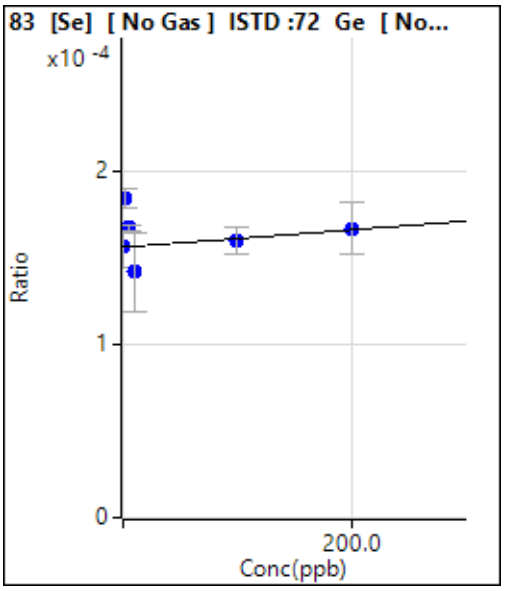
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	16.1	
2	☐	2.000	2.365	336.68	0.0003	P	9.1	18.2
3	☐	5.000	5.479	590.03	0.0005	P	20.5	9.6
4	☐	10.000	10.598	1006.73	0.0008	P	9.9	6.0
5	☐	100.000	97.046	7862.45	0.0061	P	6.4	-3.0
6	☐	200.000	201.432	15959.61	0.0126	P	2.5	0.7

y = 6.1861E-005 * x + 1.1362E-004
R = 0.9998
DL = 0.8895 ppb
BEC = 1.837 ppb

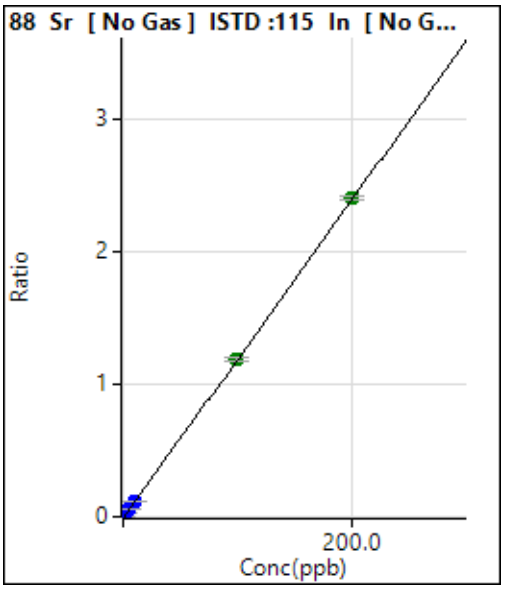
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0002	P	15.6	
2	☐	2.000	561.165	746.70	0.0002	P	5.6	27958.
3	☐	5.000	221.083	683.36	0.0002	P	2.4	4321.7
4	☐	10.000	-290.439	573.35	0.0001	P	31.8	-3004.4
5	☐	100.000	80.674	640.03	0.0002	P	9.5	-19.3
6	☐	200.000	213.691	650.03	0.0002	P	18.2	6.8

y = 5.0149E-008 * x + 1.5608E-004
R = 0.0746
DL = 1454 ppb
BEC = 3112 ppb

Weight: <None>
Min Conc: <None>

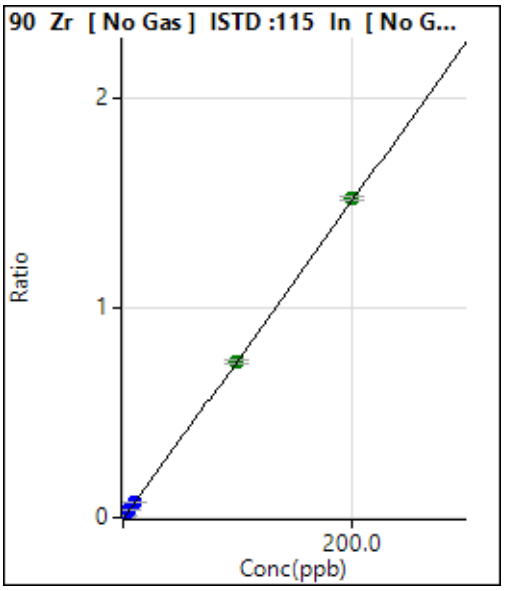


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3030.39	0.0006	P	3.5	
2	☐	2.000	2.000	115977.65	0.0247	P	3.4	0.0
3	☐	5.000	4.972	288458.12	0.0604	P	2.3	-0.6
4	☐	10.000	9.910	568789.08	0.1197	P	1.4	-0.9
5	☐	100.000	99.286	5535696.17	1.1935	A	2.2	-0.7
6	☐	200.000	200.362	10887351.09	2.4078	A	1.1	0.2

y = 0.0120 * x + 6.3673E-004
R = 1.0000
DL = 0.005495 ppb
BEC = 0.053 ppb

Weight: <None>
Min Conc: <None>

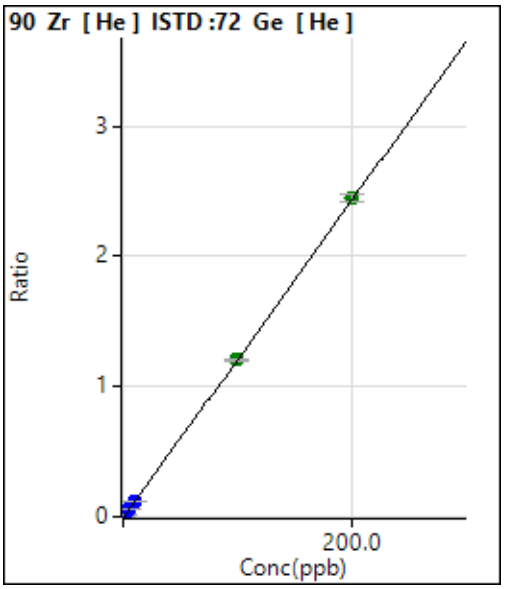
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1836.83	0.0004	P	7.9	
2	☐	2.000	1.715	62899.99	0.0134	P	1.6	-14.2
3	☐	5.000	4.470	163588.28	0.0342	P	1.2	-10.6
4	☐	10.000	9.313	336943.24	0.0709	P	1.6	-6.9
5	☐	100.000	98.150	3449409.53	0.7437	A	2.3	-1.9
6	☐	200.000	200.976	6883656.98	1.5224	A	1.7	0.5

y = 0.0076 * x + 3.8608E-004
R = 0.9999
DL = 0.01203 ppb
BEC = 0.05098 ppb

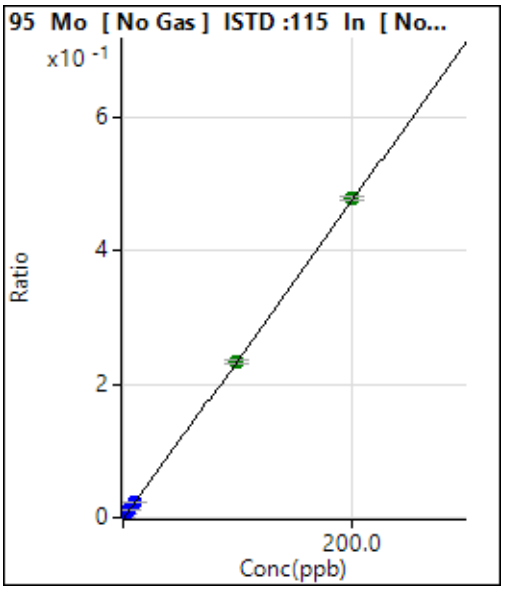
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1730.15	0.0013	P	5.8	
2	☐	2.000	1.678	28239.92	0.0218	P	2.0	-16.1
3	☐	5.000	4.532	73831.45	0.0566	P	2.3	-9.4
4	☐	10.000	9.411	152045.82	0.1161	P	2.1	-5.9
5	☐	100.000	98.704	1548037.89	1.2046	A	1.1	-1.3
6	☐	200.000	200.692	3106861.00	2.4479	A	2.8	0.3

y = 0.0122 * x + 0.0013
R = 1.0000
DL = 0.01901 ppb
BEC = 0.1099 ppb

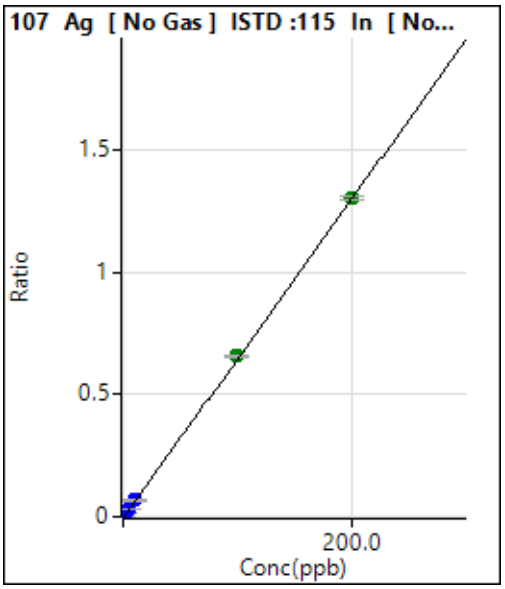
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0000	P	15.6	
2	☐	2.000	1.993	22572.47	0.0048	P	2.4	-0.3
3	☐	5.000	4.919	56287.70	0.0118	P	2.5	-1.6
4	☐	10.000	9.830	111647.26	0.0235	P	3.3	-1.7
5	☐	100.000	98.260	1087665.90	0.2345	A	1.9	-1.7
6	☐	200.000	200.881	2167503.56	0.4793	A	1.5	0.4

y = 0.0024 * x + 4.4069E-005
R = 0.9999
DL = 0.008631 ppb
BEC = 0.01847 ppb

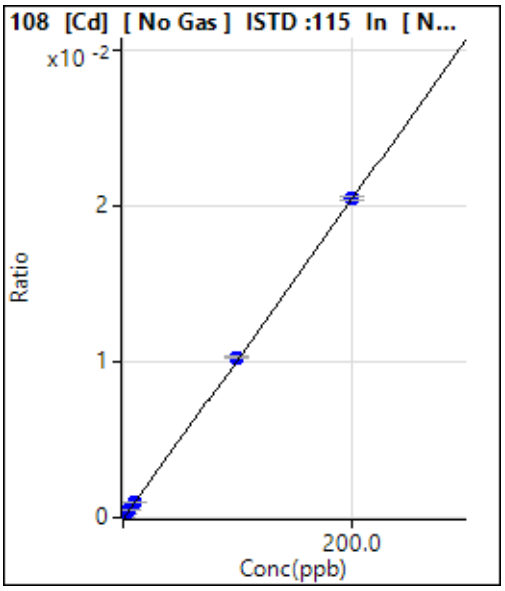
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0002	P	10.2	
2	☐	2.000	2.102	65447.42	0.0139	P	3.4	5.1
3	☐	5.000	5.176	162497.00	0.0340	P	0.9	3.5
4	☐	10.000	10.251	319166.73	0.0672	P	2.9	2.5
5	☐	100.000	100.491	3046686.41	0.6568	A	1.7	0.5
6	☐	200.000	199.737	5902342.83	1.3054	A	1.2	-0.1

y = 0.0065 * x + 1.8494E-004
R = 1.0000
DL = 0.008642 ppb
BEC = 0.0283 ppb

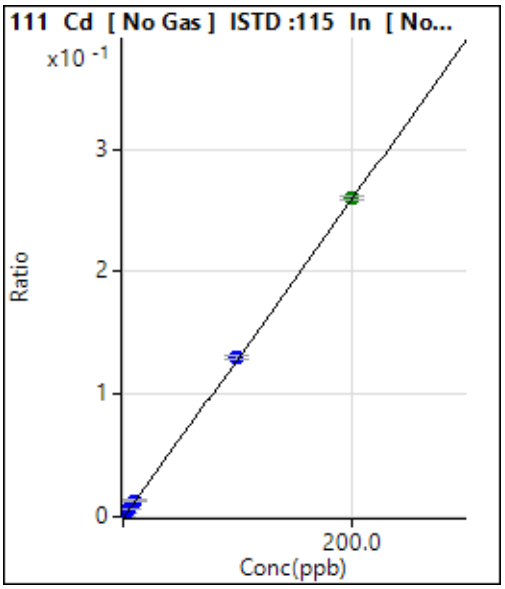
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	115.1	
2	☐	2.000	2.169	1060.06	0.0002	P	7.3	8.4
3	☐	5.000	4.664	2300.24	0.0005	P	6.7	-6.7
4	☐	10.000	9.562	4674.23	0.0010	P	7.3	-4.4
5	☐	100.000	100.375	47789.20	0.0103	P	1.2	0.4
6	☐	200.000	199.841	92741.88	0.0205	P	1.8	-0.1

y = 1.0261E-004 * x + 2.8249E-006
R = 1.0000
DL = 0.09505 ppb
BEC = 0.02753 ppb

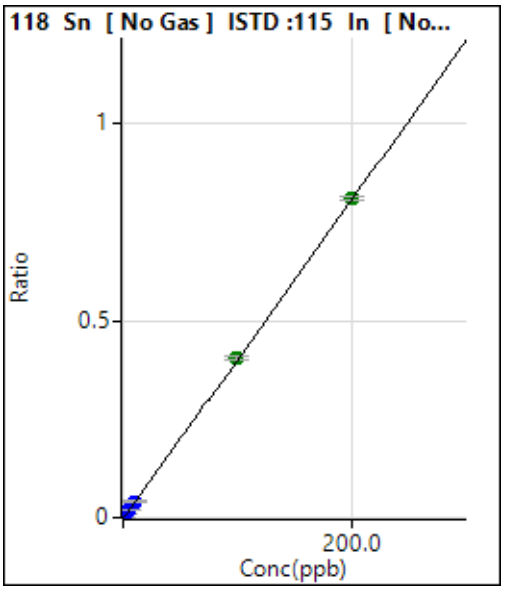
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-10.97	0.0000	P	-190.	
2	☐	2.000	2.001	12229.49	0.0026	P	4.4	0.1
3	☐	5.000	5.091	31625.78	0.0066	P	3.3	1.8
4	☐	10.000	10.115	62502.23	0.0132	P	2.6	1.2
5	☐	100.000	99.794	602021.36	0.1298	P	2.3	-0.2
6	☐	200.000	200.095	1176785.75	0.2602	A	0.9	0.0

y = 0.0013 * x - 2.3377E-006
R = 1.0000
DL = 0.01029 ppb
BEC = -0.001797 ppb

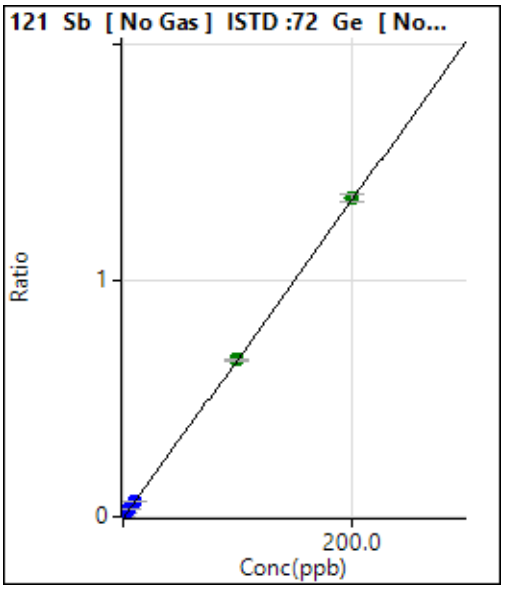
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4130.72	0.0009	P	6.2	
2	☐	2.000	2.046	43076.94	0.0092	P	1.6	2.3
3	☐	5.000	5.077	102467.26	0.0214	P	1.7	1.5
4	☐	10.000	10.026	197212.33	0.0415	P	2.1	0.3
5	☐	100.000	99.879	1881678.57	0.4057	A	1.9	-0.1
6	☐	200.000	200.057	3670344.01	0.8117	A	1.6	0.0

y = 0.0041 * x + 8.6808E-004
R = 1.0000
DL = 0.03985 ppb
BEC = 0.2142 ppb

Weight: <None>
Min Conc: <None>

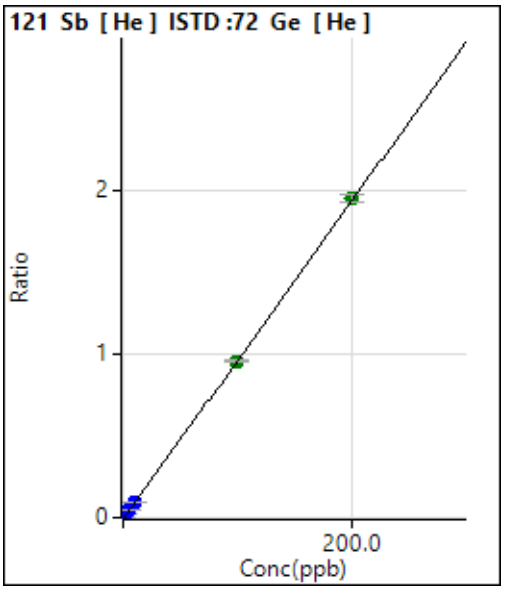


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	5.4	
2	☐	2.000	2.082	57582.30	0.0142	P	4.3	4.1
3	☐	5.000	5.128	141726.25	0.0347	P	1.2	2.6
4	☐	10.000	10.169	277943.88	0.0685	P	0.9	1.7
5	☐	100.000	98.771	2651760.48	0.6638	A	1.7	-1.2
6	☐	200.000	200.602	5249948.46	1.3479	A	2.1	0.3

y = 0.0067 * x + 2.2203E-004
R = 1.0000
DL = 0.005403 ppb
BEC = 0.03305 ppb

Weight: <None>
Min Conc: <None>

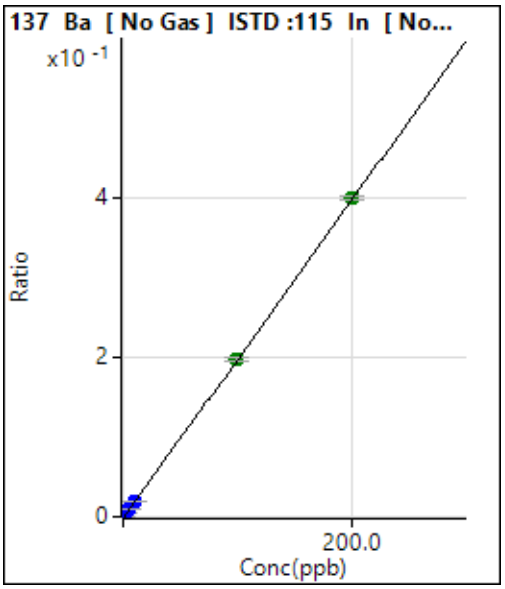
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	493.35	0.0004	P	7.9	
2	☐	2.000	2.055	26380.06	0.0204	P	3.3	2.7
3	☐	5.000	5.064	64731.62	0.0496	P	3.9	1.3
4	☐	10.000	10.062	128658.36	0.0982	P	3.3	0.6
5	☐	100.000	98.313	1228985.09	0.9563	A	1.6	-1.7
6	☐	200.000	200.838	2478989.29	1.9533	A	2.7	0.4

y = 0.0097 * x + 3.8190E-004
R = 0.9999
DL = 0.009316 ppb
BEC = 0.03928 ppb

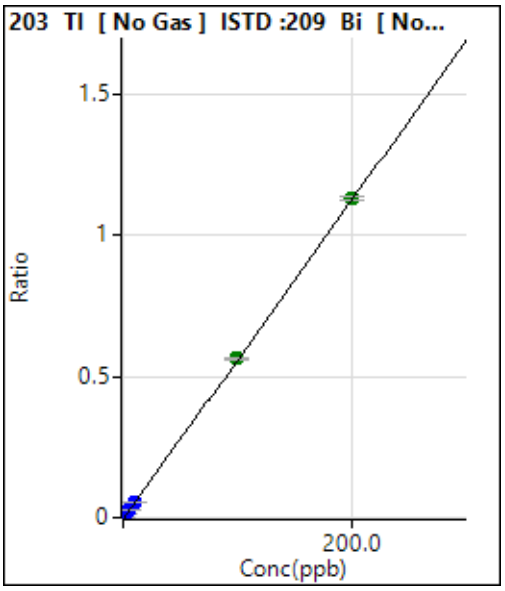
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	470.02	0.0001	P	7.3	
2	☐	2.000	1.992	19117.53	0.0041	P	1.9	-0.4
3	☐	5.000	4.984	47880.90	0.0100	P	2.7	-0.3
4	☐	10.000	9.891	94035.76	0.0198	P	0.9	-1.1
5	☐	100.000	99.164	916136.55	0.1975	A	2.3	-0.8
6	☐	200.000	200.424	1804622.47	0.3991	A	0.9	0.2

y = 0.0020 * x + 9.8719E-005
R = 1.0000
DL = 0.01081 ppb
BEC = 0.04959 ppb

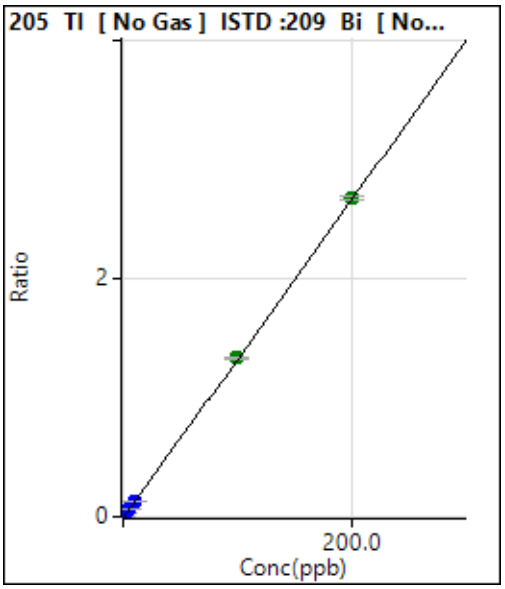
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0000	P	27.3	
2	☐	2.000	1.898	45680.15	0.0108	P	1.2	-5.1
3	☐	5.000	4.940	117004.98	0.0279	P	2.7	-1.2
4	☐	10.000	9.853	235091.01	0.0557	P	2.0	-1.5
5	☐	100.000	99.552	2312583.82	0.5621	A	1.8	-0.4
6	☐	200.000	200.234	4524321.29	1.1306	A	1.7	0.1

y = 0.0056 * x + 4.0746E-005
R = 1.0000
DL = 0.005917 ppb
BEC = 0.007216 ppb

Weight: <None>
Min Conc: <None>

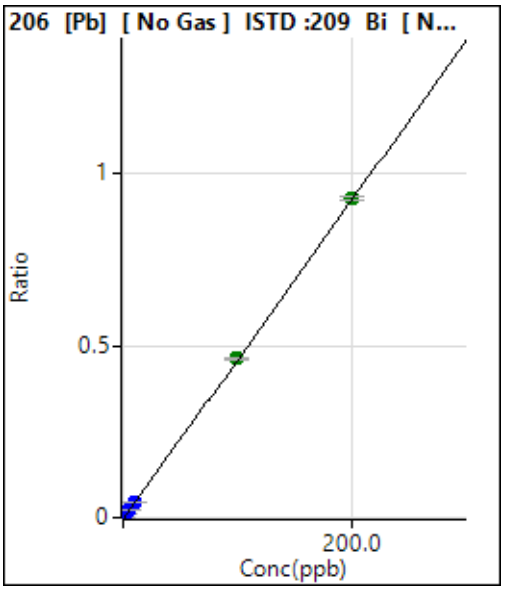


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	433.35	0.0001	P	19.8	
2	☐	2.000	1.912	109167.63	0.0257	P	1.3	-4.4
3	☐	5.000	4.946	277761.84	0.0663	P	2.0	-1.1
4	☐	10.000	9.844	556969.63	0.1319	P	1.8	-1.6
5	☐	100.000	99.584	5485952.21	1.3334	A	1.7	-0.4
6	☐	200.000	200.218	10727868.59	2.6807	A	1.4	0.1

y = 0.0134 * x + 1.0182E-004
R = 1.0000
DL = 0.004526 ppb
BEC = 0.007605 ppb

Weight: <None>
Min Conc: <None>

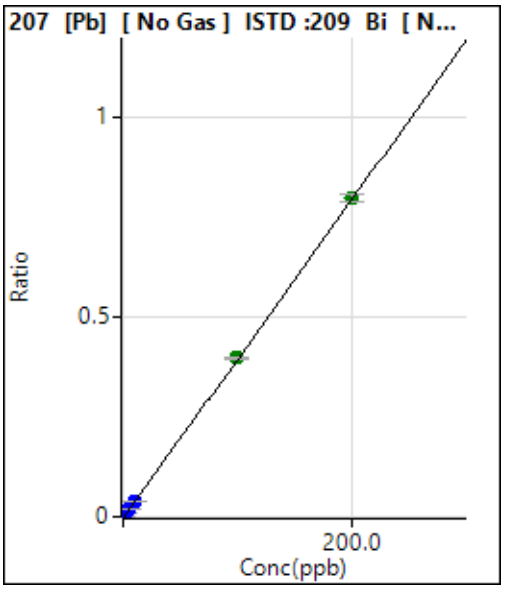
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	6.9	
2	☐	2.000	2.006	40031.01	0.0094	P	1.2	0.3
3	☐	5.000	5.066	98881.64	0.0236	P	1.8	1.3
4	☐	10.000	9.956	195403.52	0.0463	P	1.7	-0.4
5	☐	100.000	99.550	1898681.38	0.4615	A	2.0	-0.4
6	☐	200.000	200.225	3714347.45	0.9281	A	1.5	0.1

y = 0.0046 * x + 1.2850E-004
R = 1.0000
DL = 0.005754 ppb
BEC = 0.02773 ppb

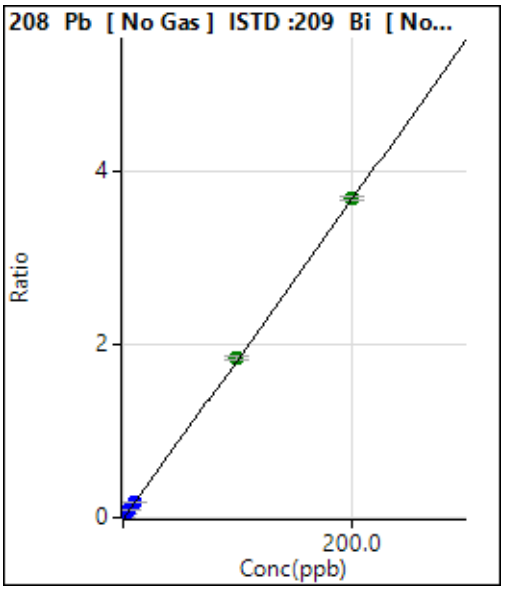
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	436.68	0.0001	P	10.3	
2	☐	2.000	2.007	34384.22	0.0081	P	2.5	0.3
3	☐	5.000	5.001	83886.90	0.0200	P	1.2	0.0
4	☐	10.000	10.001	168688.57	0.0399	P	1.6	0.0
5	☐	100.000	99.632	1633279.61	0.3970	A	2.0	-0.4
6	☐	200.000	200.184	3192079.12	0.7976	A	1.8	0.1

y = 0.0040 * x + 1.0262E-004
R = 1.0000
DL = 0.007944 ppb
BEC = 0.02576 ppb

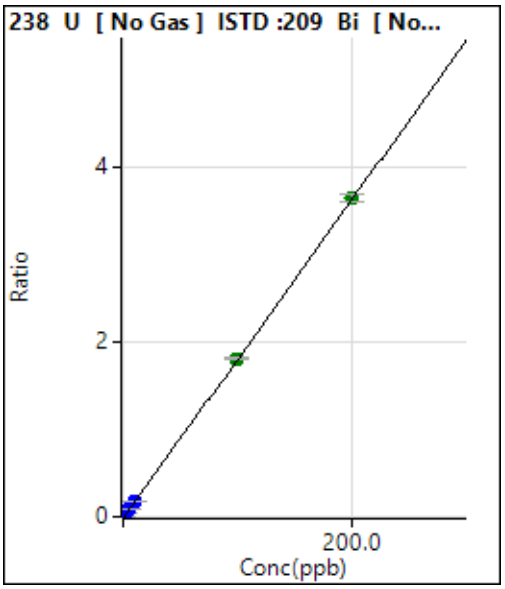
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2116.78	0.0005	P	2.6	
2	☐	2.000	2.017	159831.90	0.0376	P	1.4	0.8
3	☐	5.000	5.064	392749.81	0.0938	P	1.5	1.3
4	☐	10.000	10.022	781490.86	0.1851	P	1.7	0.2
5	☐	100.000	99.995	7578596.35	1.8421	A	1.7	0.0
6	☐	200.000	200.000	14742864.16	3.6839	A	1.7	0.0

y = 0.0184 * x + 4.9753E-004
R = 1.0000
DL = 0.002095 ppb
BEC = 0.02701 ppb

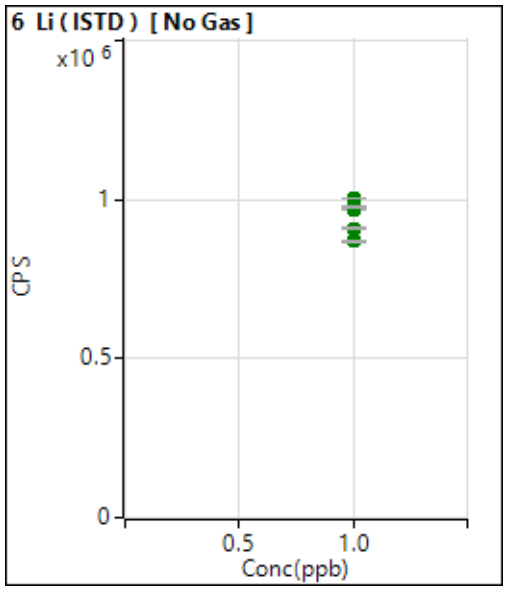
Weight: <None>
Min Conc: <None>



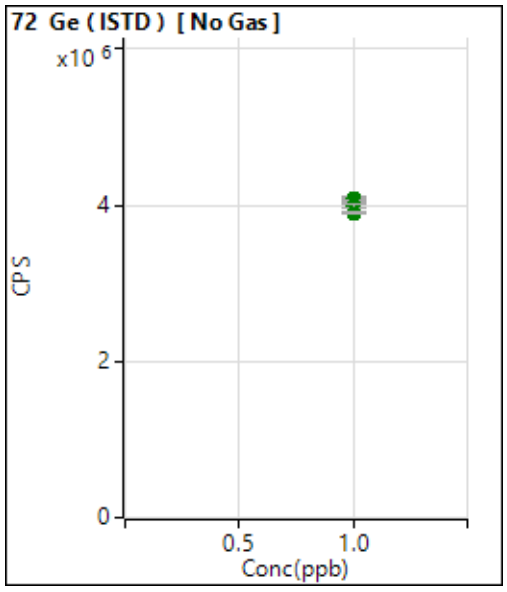
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0001	P	21.5	
2	☐	2.000	1.902	147966.08	0.0348	P	1.4	-4.9
3	☐	5.000	4.828	369498.22	0.0882	P	1.5	-3.4
4	☐	10.000	9.707	748344.05	0.1772	P	1.0	-2.9
5	☐	100.000	99.467	7468000.51	1.8147	A	2.0	-0.5
6	☐	200.000	200.287	14622861.87	3.6539	A	1.9	0.1

y = 0.0182 * x + 1.3707E-004
R = 1.0000
DL = 0.004838 ppb
BEC = 0.007513 ppb

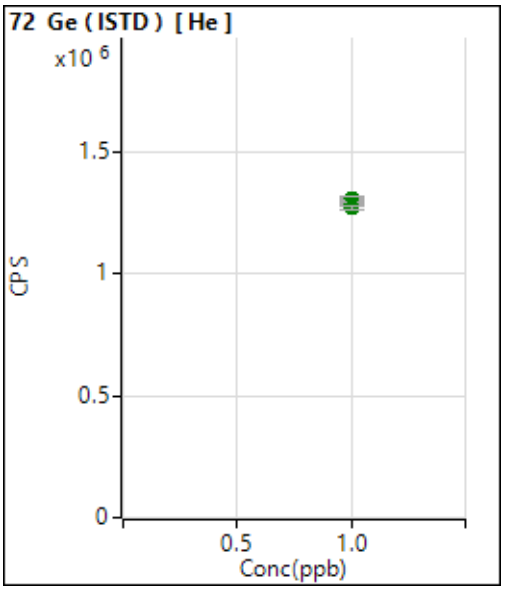
Weight: <None>
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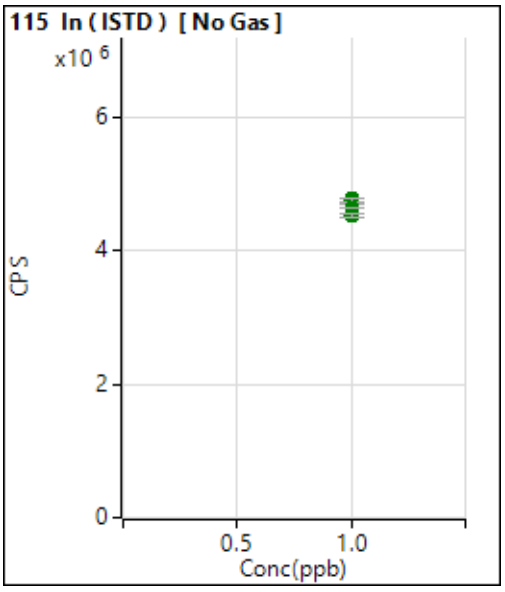
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1005681.20		A	0.6	
2	☐	1.000		967761.07		A	0.3	
3	☐	1.000		976932.24		A	0.7	
4	☐	1.000		978011.38		A	0.5	
5	☐	1.000		911358.46		A	1.2	
6	☐	1.000		869702.87		A	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4054510.88		A	1.3	
2	☐	1.000		4052670.25		A	0.6	
3	☐	1.000		4087653.07		A	0.9	
4	☐	1.000		4055374.84		A	1.0	
5	☐	1.000		3995185.36		A	1.1	
6	☐	1.000		3895222.96		A	0.5	

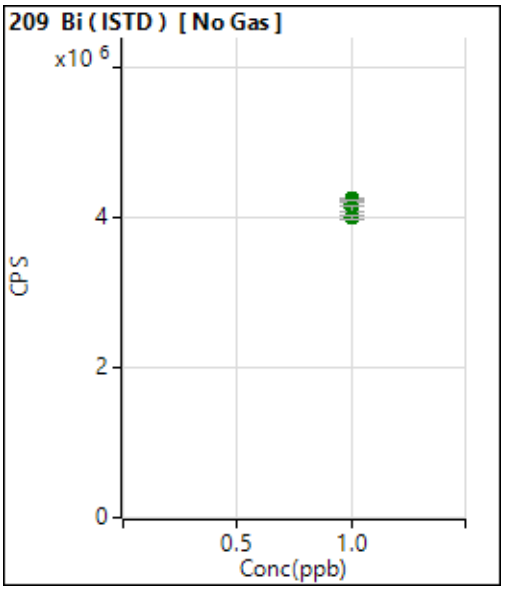


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1291478.47		A	0.6	
2	☐	1.000		1295802.98		A	1.3	
3	☐	1.000		1304867.37		A	1.1	
4	☐	1.000		1310038.21		A	1.5	
5	☐	1.000		1285034.09		A	0.9	
6	☐	1.000		1269323.08		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4760340.85		A	1.1	
2	☐	1.000		4703173.62		A	0.7	
3	☐	1.000		4778192.88		A	0.5	
4	☐	1.000		4751963.43		A	1.0	
5	☐	1.000		4638499.24		A	0.3	
6	☐	1.000		4521570.64		A	0.8	

Calibration for 165_ICV.d



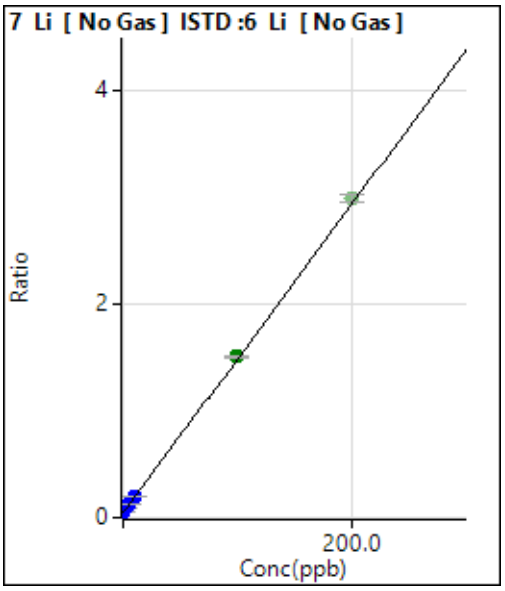
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4254343.58		A	0.3	
2	☐	1.000		4246739.31		A	0.8	
3	☐	1.000		4188506.61		A	1.4	
4	☐	1.000		4222892.43		A	0.3	
5	☐	1.000		4114705.25		A	2.0	
6	☐	1.000		4001931.29		A	1.1	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\053024A.b\
Analysis File: 053024A.batch.bin
DA Date-Time: 5/30/2024 12:04:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/30/2024 10:54:17 AM
2	011CALS.d	2/10/200	5/30/2024 10:57:00 AM
3	012CALS.d	5/25/500	5/30/2024 10:59:40 AM
4	013CALS.d	10/50/100	5/30/2024 11:02:21 AM
5	014CALS.d	100/500/10K	5/30/2024 11:05:00 AM
6	015CALS.d	200/1000/20K	5/30/2024 11:07:41 AM

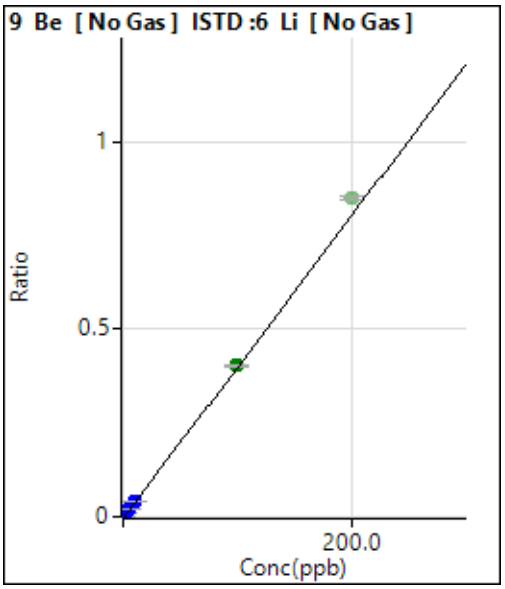
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79004.36	0.0599	P	1.2	
2	☐	2.000	1.950	114553.62	0.0880	P	1.3	-2.5
3	☐	5.000	4.902	169767.94	0.1306	P	2.0	-2.0
4	☐	10.000	9.579	256721.10	0.1981	P	1.9	-4.2
5	☐	100.000	100.048	1873314.87	1.5029	A	0.6	0.0
6	☑	200.000		3633178.49	2.9866	A	2.2	

y = 0.0144 * x + 0.0599
R = 1.0000
DL = 0.1507 ppb
BEC = 4.153 ppb

Weight: <None>
Min Conc: <None>

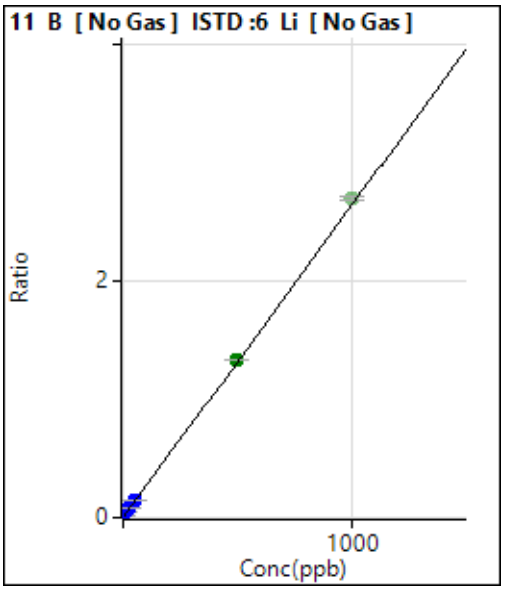


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0000	P	27.5	
2	☐	2.000	2.004	10582.33	0.0081	P	1.2	0.2
3	☐	5.000	5.092	26780.29	0.0206	P	1.6	1.8
4	☐	10.000	10.075	52779.24	0.0407	P	3.5	0.7
5	☐	100.000	99.988	503380.59	0.4038	A	1.2	0.0
6	☑	200.000		1034973.21	0.8508	A	1.7	

y = 0.0040 * x + 3.7975E-005
R = 1.0000
DL = 0.007747 ppb
BEC = 0.009403 ppb

Weight: <None>
Min Conc: <None>

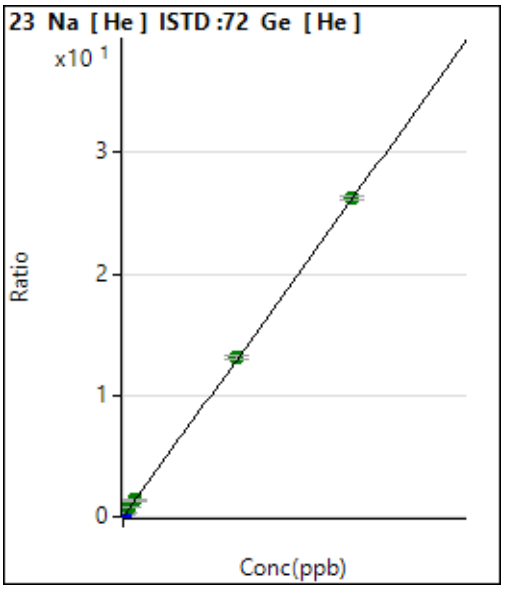
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21122.44	0.0160	P	1.5	
2	☐	10.000	9.470	53364.92	0.0410	P	1.3	-5.3
3	☐	25.000	23.782	102413.31	0.0788	P	2.1	-4.9
4	☐	50.000	47.335	182699.12	0.1410	P	0.8	-5.3
5	☐	500.000	500.338	1666055.18	1.3366	A	0.4	0.1
6	☑	1000.000		3287217.66	2.7022	A	1.5	

y = 0.0026 * x + 0.0160
R = 1.0000
DL = 0.2712 ppb
BEC = 6.068 ppb

Weight: <None>
Min Conc: <None>

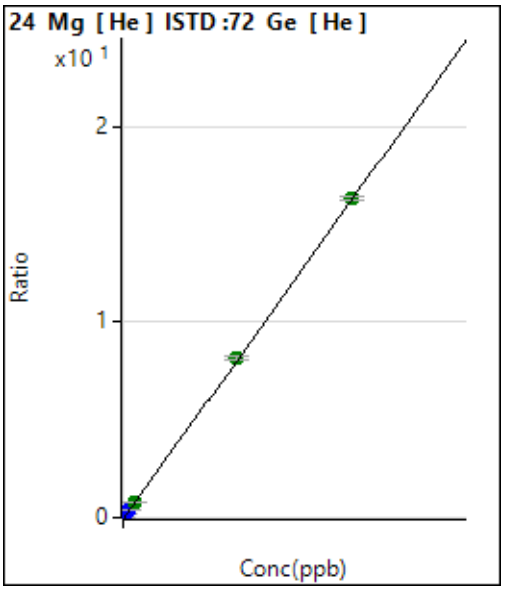


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140133.10	0.1070	P	0.6	
2	☐	200.000	196.448	475447.96	0.3637	P	2.5	-1.8
3	☐	500.000	490.895	979549.93	0.7484	A	1.7	-1.8
4	☐	1000.000	948.632	1776733.93	1.3466	A	1.8	-5.1
5	☐	10000.00	9990.303	17068478.50	13.1613	A	2.1	-0.1
6	☐	20000.00	20007.68	33416076.17	26.2510	A	0.8	0.0

y = 0.0013 * x + 0.1070
R = 1.0000
DL = 1.545 ppb
BEC = 81.88 ppb

Weight: <None>
Min Conc: <None>

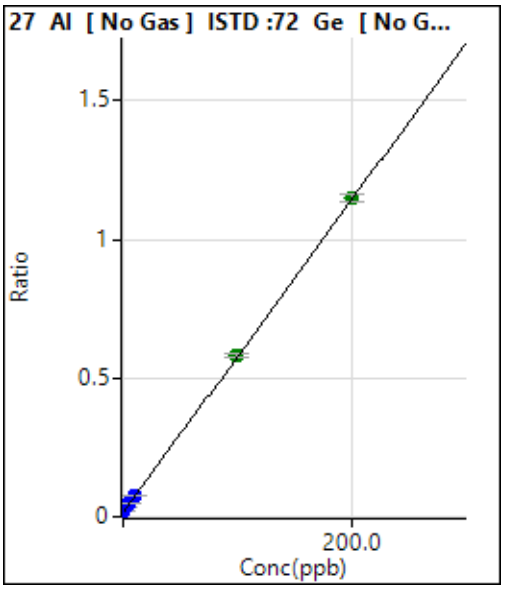
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	686.70	0.0005	P	8.3	
2	☐	200.000	196.807	210950.86	0.1614	P	3.5	-1.6
3	☐	500.000	490.009	524830.34	0.4010	P	2.3	-2.0
4	☐	1000.000	952.748	1028067.93	0.7792	A	2.4	-4.7
5	☐	10000.00	9989.566	10589004.84	8.1650	A	2.2	-0.1
6	☐	20000.00	20007.86	20817141.36	16.3529	A	1.2	0.0

y = 8.1730E-004 * x + 5.2429E-004
R = 1.0000
DL = 0.1607 ppb
BEC = 0.6415 ppb

Weight: <None>
Min Conc: <None>

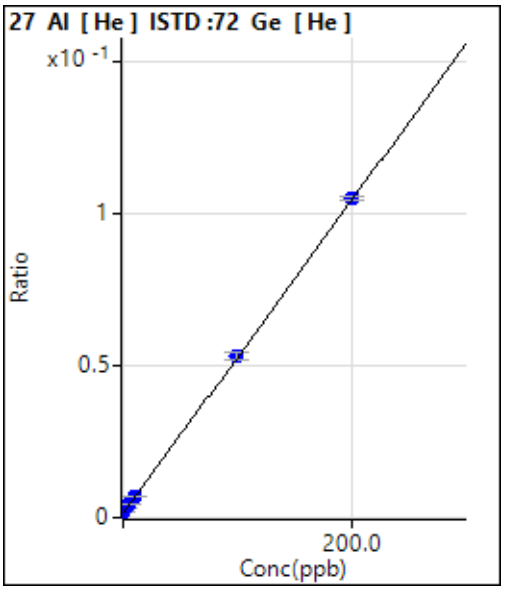


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92043.71	0.0210	P	0.9	
2	☐	2.000	1.968	139598.47	0.0321	P	0.7	-1.6
3	☐	5.000	5.124	217396.68	0.0499	P	2.7	2.5
4	☐	10.000	10.043	337837.08	0.0776	P	3.5	0.4
5	☐	100.000	99.657	2490340.02	0.5825	A	1.8	-0.3
6	☐	200.000	200.166	4840907.95	1.1489	A	2.1	0.1

y = 0.0056 * x + 0.0210
R = 1.0000
DL = 0.09739 ppb
BEC = 3.727 ppb

Weight: <None>
Min Conc: <None>

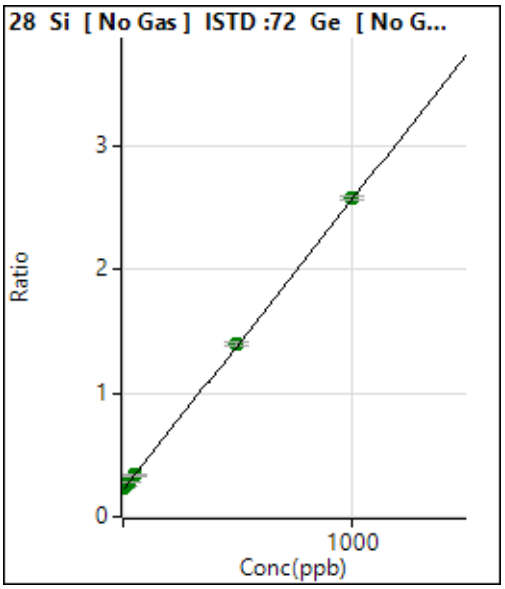
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2453.60	0.0019	P	3.3	
2	☐	2.000	2.152	3897.28	0.0030	P	4.1	7.6
3	☐	5.000	5.028	5837.99	0.0045	P	5.0	0.6
4	☐	10.000	9.981	9246.51	0.0070	P	6.3	-0.2
5	☐	100.000	99.452	68798.41	0.0531	P	3.9	-0.5
6	☐	200.000	200.273	133577.55	0.1049	P	1.4	0.1

y = 5.1459E-004 * x + 0.0019
R = 1.0000
DL = 0.3559 ppb
BEC = 3.641 ppb

Weight: <None>
Min Conc: <None>

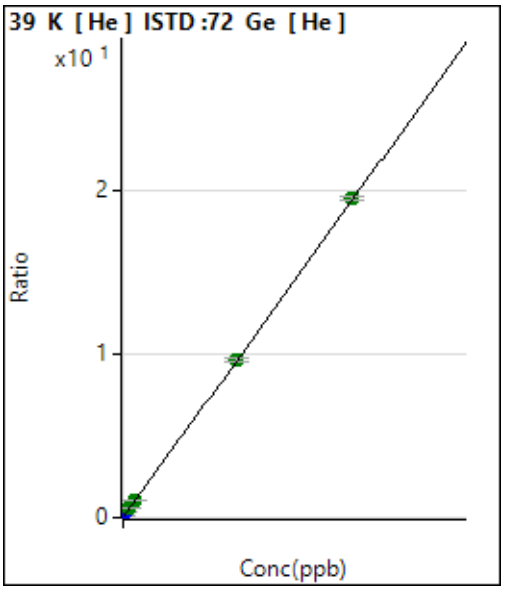


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1015381.50	0.2317	A	1.3	
2	☐	10.000	7.608	1085201.44	0.2495	A	0.2	-23.9
3	☐	25.000	21.430	1228470.40	0.2818	A	1.4	-14.3
4	☐	50.000	44.668	1463876.12	0.3362	A	2.4	-10.7
5	☐	500.000	496.486	5956593.24	1.3934	A	2.0	-0.7
6	☐	1000.000	1002.137	10856764.01	2.5765	A	1.7	0.2

y = 0.0023 * x + 0.2317
R = 1.0000
DL = 3.821 ppb
BEC = 99.01 ppb

Weight: <None>
Min Conc: <None>

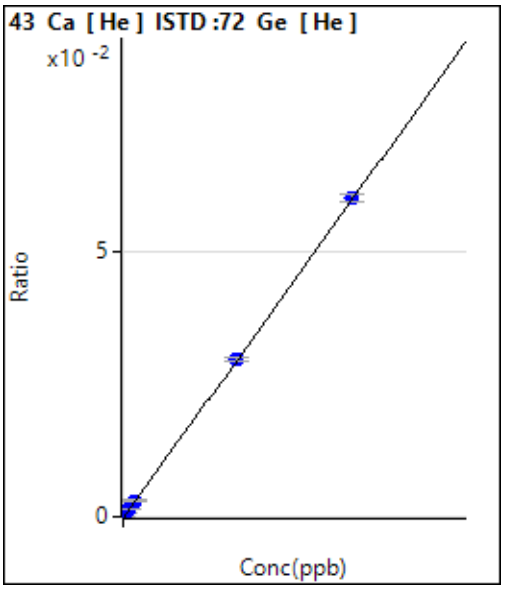
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156552.42	0.1195	P	1.6	
2	☐	200.000	194.882	403030.22	0.3083	P	1.9	-2.6
3	☐	500.000	486.184	772778.22	0.5904	A	2.2	-2.8
4	☐	1000.000	954.928	1378082.74	1.0445	A	2.2	-4.5
5	☐	10000.00	9865.358	12547030.23	9.6751	A	2.7	-1.3
6	☐	20000.00	20069.97	24899698.80	19.5593	A	1.7	0.3

y = 9.6860E-004 * x + 0.1195
R = 1.0000
DL = 5.837 ppb
BEC = 123.4 ppb

Weight: <None>
Min Conc: <None>

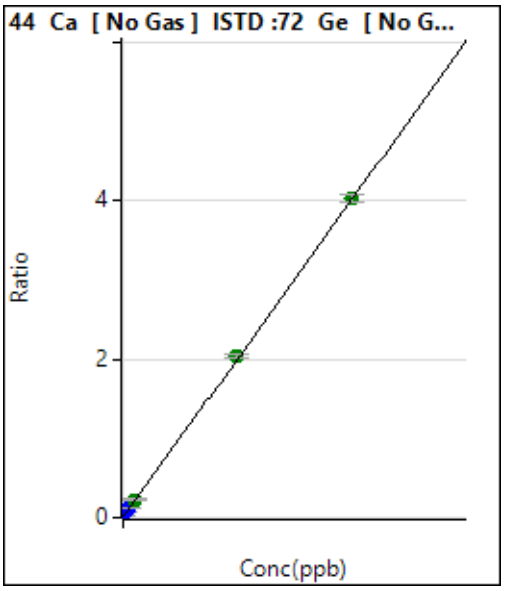


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	25.3	
2	☐	200.000	209.005	860.04	0.0007	P	3.3	4.5
3	☐	500.000	469.779	1883.49	0.0014	P	9.4	-6.0
4	☐	1000.000	980.551	3920.63	0.0030	P	12.8	-1.9
5	☐	10000.00	9906.138	38600.62	0.0298	P	2.6	-0.9
6	☐	20000.00	20048.56	76647.03	0.0602	P	2.0	0.2

y = 3.0015E-006 * x + 3.0557E-005
R = 1.0000
DL = 7.742 ppb
BEC = 10.18 ppb

Weight: <None>
Min Conc: <None>

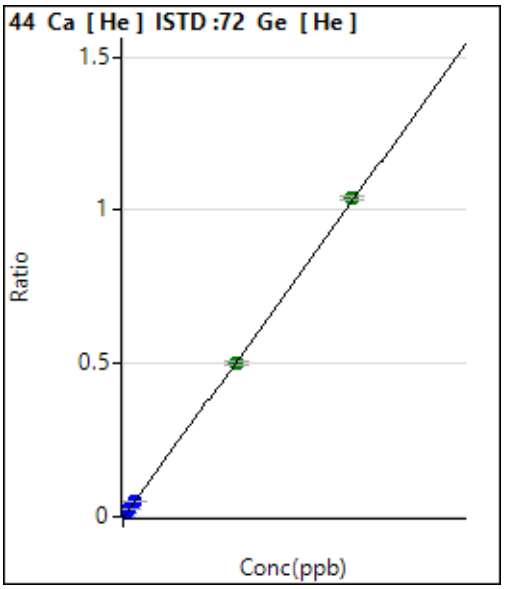
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	121620.90	0.0278	P	1.3	
2	☐	200.000	208.297	302277.34	0.0695	P	1.0	4.1
3	☐	500.000	516.614	572126.78	0.1312	P	2.5	3.3
4	☐	1000.000	1008.759	1000791.03	0.2298	A	2.9	0.9
5	☐	10000.00	10010.13	8691347.99	2.0331	A	2.5	0.1
6	☐	20000.00	19993.99	16994013.50	4.0332	A	1.8	0.0

y = 2.0033E-004 * x + 0.0278
R = 1.0000
DL = 5.537 ppb
BEC = 138.5 ppb

Weight: <None>
Min Conc: <None>

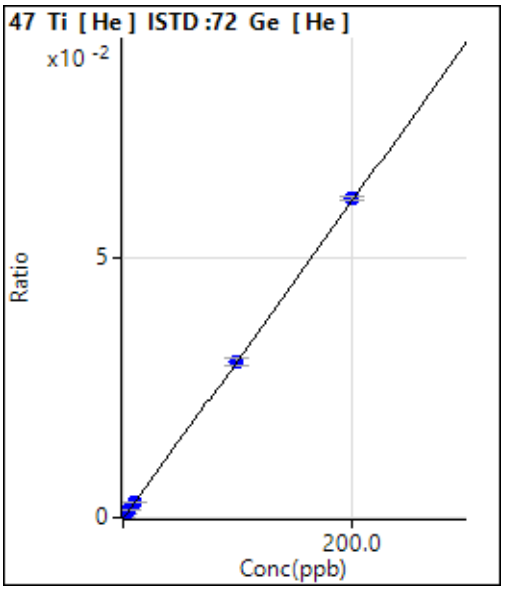


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2153.54	0.0016	P	14.9	
2	☐	200.000	186.276	14698.00	0.0112	P	6.5	-6.9
3	☐	500.000	475.173	34205.65	0.0261	P	1.2	-5.0
4	☐	1000.000	950.098	66776.66	0.0506	P	2.8	-5.0
5	☐	10000.00	9707.793	651031.24	0.5020	A	2.7	-2.9
6	☐	20000.00	20149.35	1324168.78	1.0402	A	1.7	0.7

y = 5.1541E-005 * x + 0.0016
R = 0.9999
DL = 14.3 ppb
BEC = 31.89 ppb

Weight: <None>
Min Conc: <None>

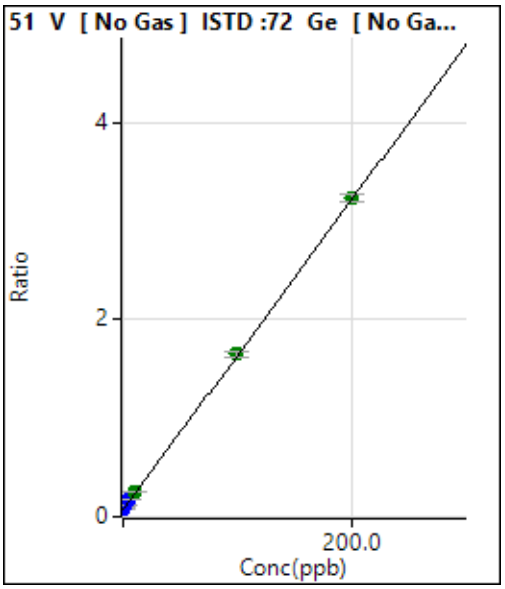
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.35	0.0000	P	120.0	
2	☐	2.000	1.964	850.04	0.0007	P	12.5	-1.8
3	☐	5.000	4.555	1890.17	0.0014	P	4.1	-8.9
4	☐	10.000	9.544	3920.62	0.0030	P	10.2	-4.6
5	☐	100.000	97.994	39005.12	0.0301	P	4.0	-2.0
6	☐	200.000	201.037	78494.84	0.0617	P	1.7	0.5

y = 3.0646E-004 * x + 4.8556E-005
R = 0.9999
DL = 0.5705 ppb
BEC = 0.1584 ppb

Weight: <None>
Min Conc: <None>

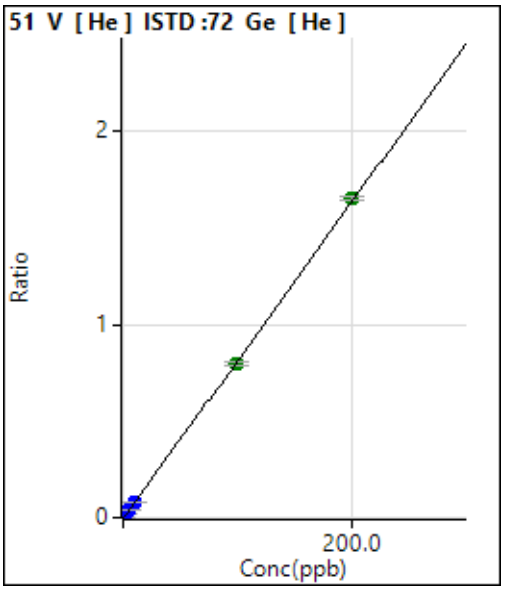


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383113.49	0.0874	P	1.3	
2	☐	2.000	2.237	533472.85	0.1226	P	0.5	11.9
3	☐	5.000	5.513	759220.36	0.1742	P	1.4	10.3
4	☐	10.000	10.627	1108787.20	0.2546	A	2.4	6.3
5	☐	100.000	99.505	7066268.05	1.6530	A	3.1	-0.5
6	☐	200.000	200.201	13639423.16	3.2372	A	2.4	0.1

y = 0.0157 * x + 0.0874
R = 1.0000
DL = 0.2093 ppb
BEC = 5.557 ppb

Weight: <None>
Min Conc: <None>

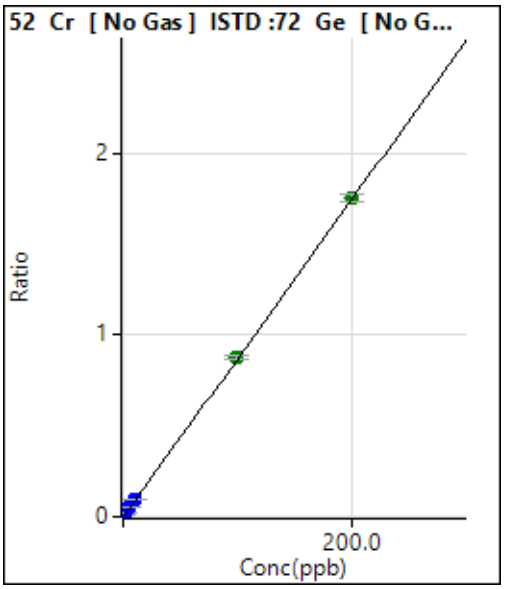
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3530.48	0.0027	P	4.0	
2	☐	2.000	1.926	24136.56	0.0185	P	3.6	-3.7
3	☐	5.000	4.783	54784.47	0.0419	P	2.4	-4.3
4	☐	10.000	9.428	105397.66	0.0799	P	3.3	-5.7
5	☐	100.000	97.138	1034922.49	0.7980	A	2.6	-2.9
6	☐	200.000	201.466	2103224.71	1.6522	A	1.1	0.7

y = 0.0082 * x + 0.0027
R = 0.9999
DL = 0.03971 ppb
BEC = 0.3292 ppb

Weight: <None>
Min Conc: <None>

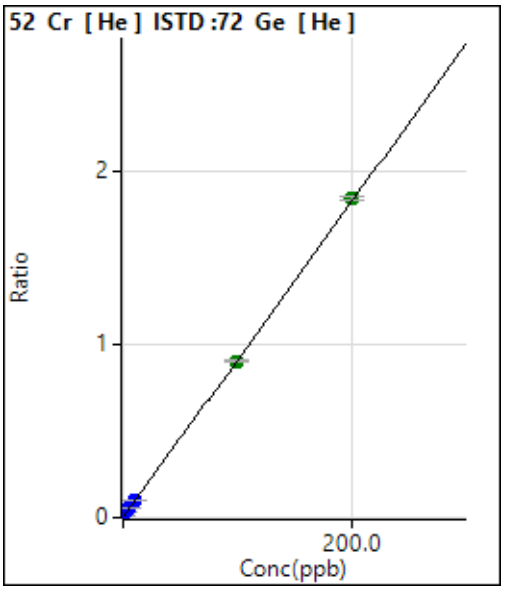


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26145.05	0.0060	P	3.1	
2	☐	2.000	1.988	101457.35	0.0233	P	1.4	-0.6
3	☐	5.000	5.058	218460.73	0.0501	P	2.9	1.2
4	☐	10.000	9.910	402677.09	0.0925	P	3.3	-0.9
5	☐	100.000	99.849	3751589.63	0.8776	A	3.2	-0.2
6	☐	200.000	200.079	7383958.85	1.7525	A	2.4	0.0

y = 0.0087 * x + 0.0060
R = 1.0000
DL = 0.06291 ppb
BEC = 0.6836 ppb

Weight: <None>
Min Conc: <None>

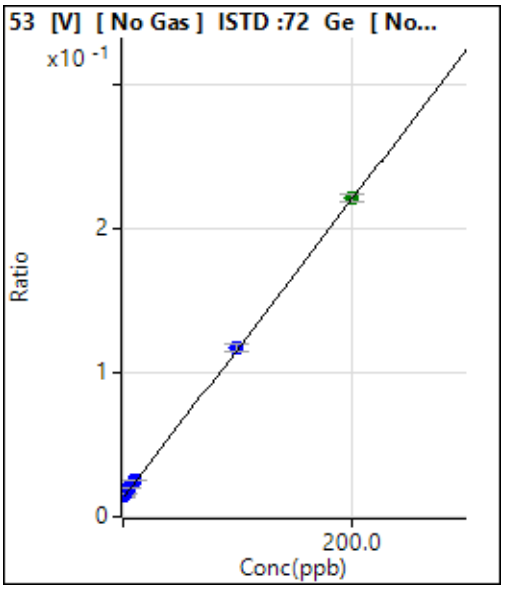
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13600.27	0.0104	P	1.4	
2	☐	2.000	2.004	37484.44	0.0287	P	2.0	0.2
3	☐	5.000	4.985	73136.18	0.0559	P	3.4	-0.3
4	☐	10.000	9.562	128849.35	0.0977	P	2.2	-4.4
5	☐	100.000	97.869	1171939.64	0.9037	A	1.8	-2.1
6	☐	200.000	201.088	2349507.78	1.8457	A	0.7	0.5

y = 0.0091 * x + 0.0104
R = 0.9999
DL = 0.0463 ppb
BEC = 1.138 ppb

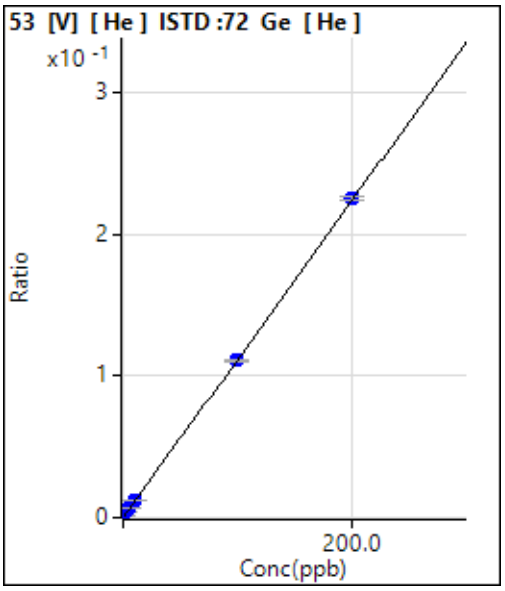
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61563.72	0.0140	P	1.5	
2	☐	2.000	2.451	72168.22	0.0166	P	0.4	22.6
3	☐	5.000	6.108	88837.56	0.0204	P	1.2	22.2
4	☐	10.000	10.966	110663.55	0.0254	P	1.8	9.7
5	☐	100.000	99.731	501854.97	0.1174	P	3.5	-0.3
6	☐	200.000	200.054	932675.25	0.2214	A	2.2	0.0

y = 0.0010 * x + 0.0140
R = 1.0000
DL = 0.6165 ppb
BEC = 13.56 ppb

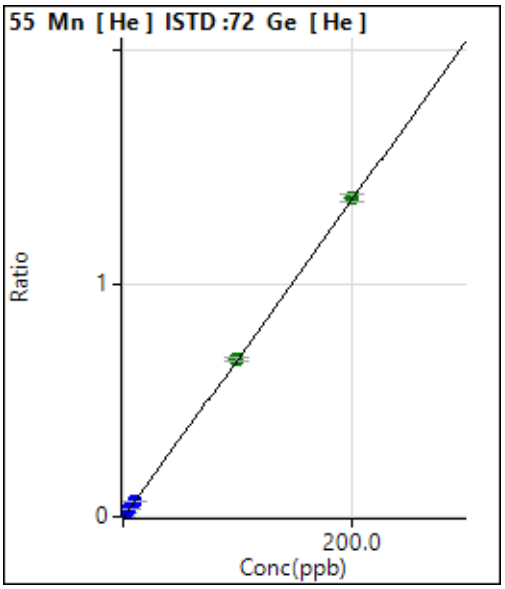
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1536.78	0.0012	P	3.0	
2	☐	2.000	2.197	4737.56	0.0036	P	4.8	9.9
3	☐	5.000	4.928	8729.56	0.0067	P	1.7	-1.4
4	☐	10.000	9.712	15836.02	0.0120	P	6.0	-2.9
5	☐	100.000	98.503	144017.82	0.1110	P	1.4	-1.5
6	☐	200.000	200.763	286551.67	0.2251	P	1.1	0.4

y = 0.0011 * x + 0.0012
R = 1.0000
DL = 0.09409 ppb
BEC = 1.052 ppb

Weight: <None>
Min Conc: <None>

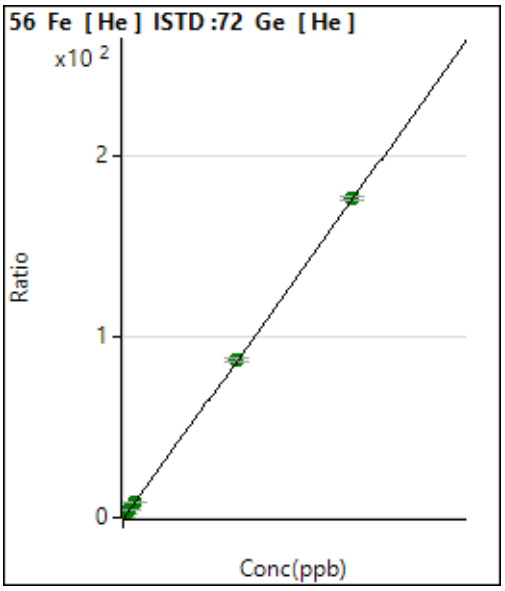


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0006	P	5.4	
2	☐	2.000	1.951	18132.17	0.0139	P	2.8	-2.5
3	☐	5.000	4.937	44833.18	0.0343	P	2.3	-1.3
4	☐	10.000	9.532	86577.11	0.0656	P	2.3	-4.7
5	☐	100.000	99.072	877730.51	0.6768	A	3.2	-0.9
6	☐	200.000	200.489	1742799.35	1.3690	A	1.9	0.2

y = 0.0068 * x + 5.5481E-004
R = 1.0000
DL = 0.01306 ppb
BEC = 0.08128 ppb

Weight: <None>
Min Conc: <None>

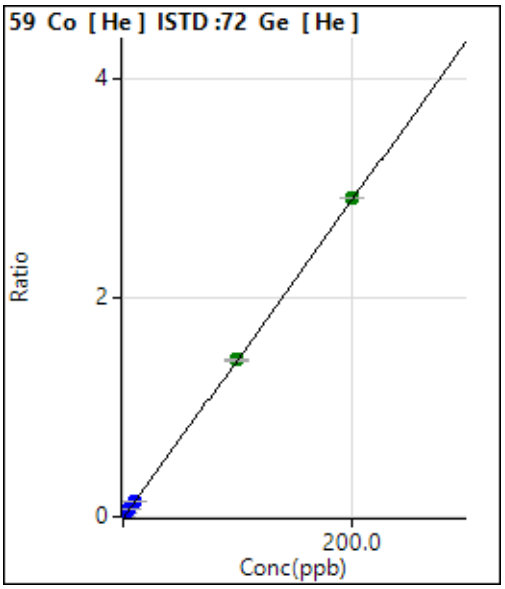
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18742.95	0.0143	P	4.0	
2	☐	200.000	194.353	2255652.31	1.7255	A	2.8	-2.8
3	☐	500.000	488.127	5643622.42	4.3120	A	2.8	-2.4
4	☐	1000.000	948.277	11033917.34	8.3634	A	3.2	-5.2
5	☐	10000.00	9929.608	113401448.3	87.4397	A	2.2	-0.7
6	☐	20000.00	20038.13	224603709.9	176.440	A	1.2	0.2

y = 0.0088 * x + 0.0143
R = 1.0000
DL = 0.195 ppb
BEC = 1.626 ppb

Weight: <None>
Min Conc: <None>

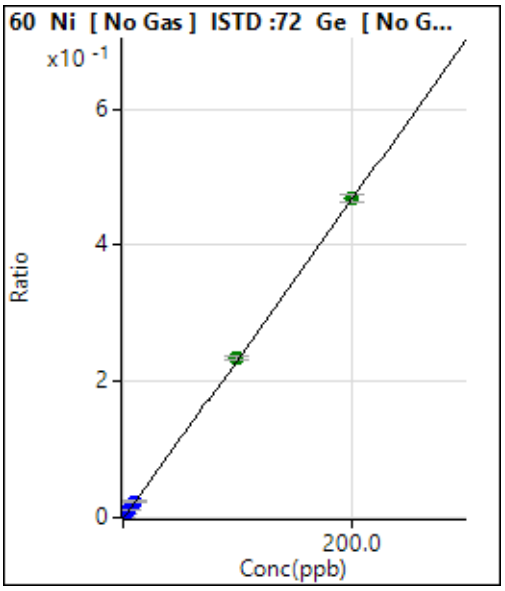


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	14.0	
2	☐	2.000	2.004	38146.43	0.0292	P	0.5	0.2
3	☐	5.000	4.932	93855.25	0.0717	P	3.2	-1.4
4	☐	10.000	9.488	181917.15	0.1379	P	2.8	-5.1
5	☐	100.000	98.697	1859126.38	1.4334	A	1.6	-1.3
6	☐	200.000	200.679	3709878.38	2.9145	A	0.4	0.3

y = 0.0145 * x + 8.1425E-005
R = 1.0000
DL = 0.002355 ppb
BEC = 0.005607 ppb

Weight: <None>
Min Conc: <None>

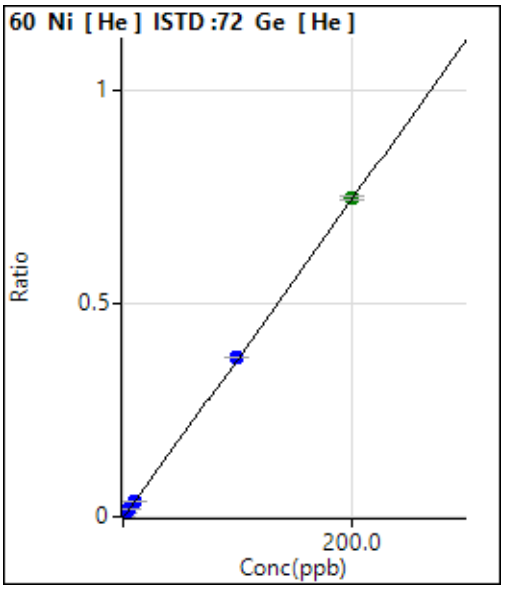
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1170.07	0.0003	P	5.5	
2	☐	2.000	2.036	21917.88	0.0050	P	5.0	1.8
3	☐	5.000	5.087	53129.53	0.0122	P	2.1	1.7
4	☐	10.000	9.954	102728.30	0.0236	P	4.0	-0.5
5	☐	100.000	100.188	1004801.55	0.2350	A	2.2	0.2
6	☐	200.000	199.906	1974850.23	0.4687	A	2.5	0.0

y = 0.0023 * x + 2.6703E-004
R = 1.0000
DL = 0.0187 ppb
BEC = 0.114 ppb

Weight: <None>
Min Conc: <None>

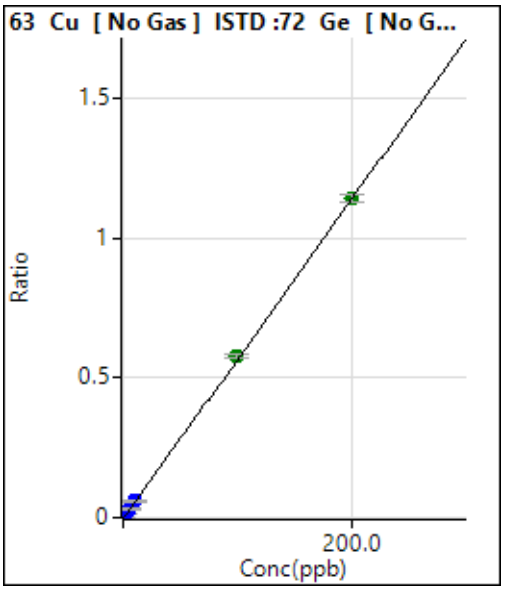


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	543.35	0.0004	P	1.7	
2	☐	2.000	1.950	10057.13	0.0077	P	5.1	-2.5
3	☐	5.000	4.898	24478.75	0.0187	P	1.7	-2.0
4	☐	10.000	9.813	48876.92	0.0370	P	3.5	-1.9
5	☐	100.000	99.803	483719.82	0.3730	P	0.7	-0.2
6	☐	200.000	200.111	951407.85	0.7474	A	1.3	0.1

y = 0.0037 * x + 4.1491E-004
R = 1.0000
DL = 0.005531 ppb
BEC = 0.1112 ppb

Weight: <None>
Min Conc: <None>

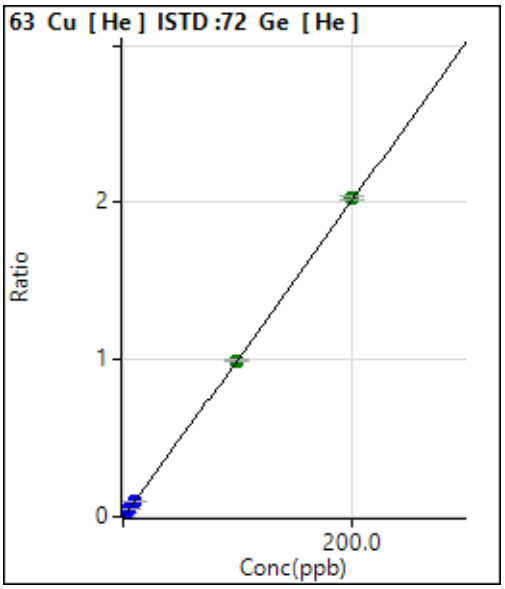
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3647.22	0.0008	P	1.3	
2	☐	2.000	2.084	55395.03	0.0127	P	0.6	4.2
3	☐	5.000	5.217	133527.37	0.0306	P	2.1	4.3
4	☐	10.000	10.183	256911.45	0.0590	P	3.2	1.8
5	☐	100.000	100.749	2463851.26	0.5763	A	2.1	0.7
6	☐	200.000	199.610	4807988.05	1.1411	A	2.3	-0.2

y = 0.0057 * x + 8.3232E-004
R = 1.0000
DL = 0.005683 ppb
BEC = 0.1457 ppb

Weight: <None>
Min Conc: <None>

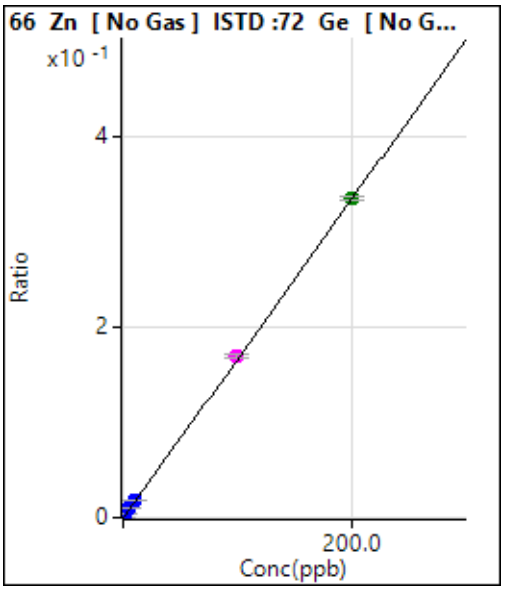


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1760.15	0.0013	P	7.4	
2	☐	2.000	1.973	27781.87	0.0213	P	2.3	-1.4
3	☐	5.000	4.979	67545.80	0.0516	P	0.6	-0.4
4	☐	10.000	9.482	128033.07	0.0970	P	2.4	-5.2
5	☐	100.000	98.170	1286777.17	0.9921	A	1.3	-1.8
6	☐	200.000	200.942	2583323.92	2.0294	A	0.9	0.5

y = 0.0101 * x + 0.0013
R = 0.9999
DL = 0.02956 ppb
BEC = 0.1332 ppb

Weight: <None>
Min Conc: <None>

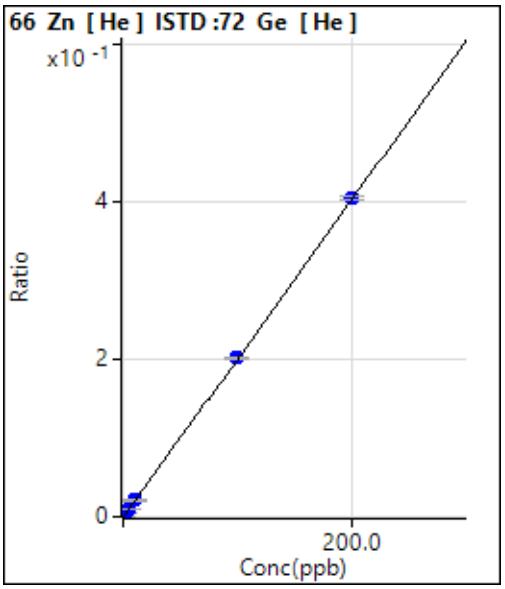
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4010.67	0.0009	P	5.2	
2	☐	2.000	1.945	18152.26	0.0042	P	4.0	-2.8
3	☐	5.000	4.993	40439.99	0.0093	P	2.1	-0.1
4	☐	10.000	9.927	76378.97	0.0175	P	1.8	-0.7
5	☐	100.000	100.778	725440.82	0.1697	M	1.8	0.8
6	☐	200.000	199.615	1412534.72	0.3352	A	1.6	-0.2

y = 0.0017 * x + 9.1506E-004
R = 1.0000
DL = 0.08567 ppb
BEC = 0.5464 ppb

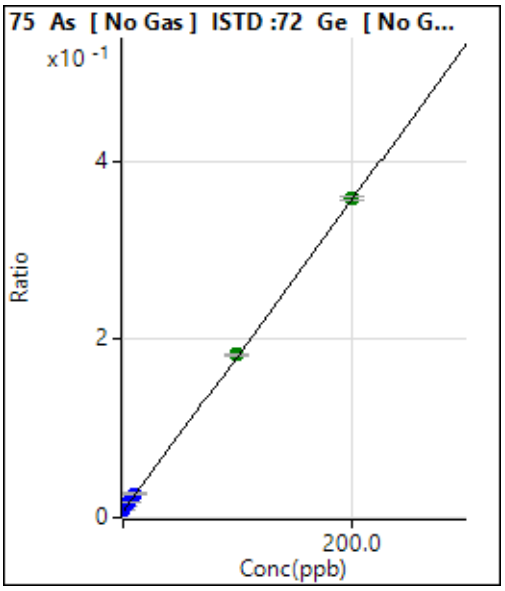
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1560.12	0.0012	P	3.0	
2	☐	2.000	1.872	6491.64	0.0050	P	5.3	-6.4
3	☐	5.000	4.782	14180.87	0.0108	P	0.5	-4.4
4	☐	10.000	9.737	27474.55	0.0208	P	3.2	-2.6
5	☐	100.000	99.635	262092.49	0.2021	P	1.1	-0.4
6	☐	200.000	200.202	515373.94	0.4049	P	1.1	0.1

y = 0.0020 * x + 0.0012
R = 1.0000
DL = 0.0536 ppb
BEC = 0.5908 ppb

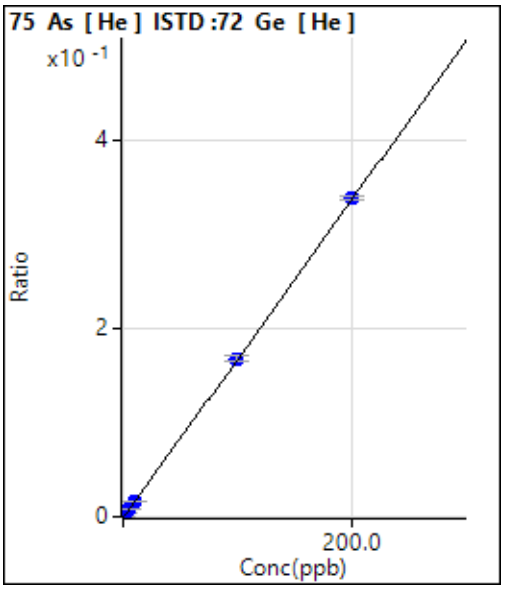
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38762.13	0.0088	P	1.8	
2	☐	2.000	2.116	54552.51	0.0125	P	1.0	5.8
3	☐	5.000	5.236	78417.86	0.0180	P	1.0	4.7
4	☐	10.000	10.218	116211.18	0.0267	P	3.1	2.2
5	☐	100.000	99.563	781129.73	0.1827	A	1.8	-0.4
6	☐	200.000	200.201	1510592.89	0.3585	A	0.8	0.1

y = 0.0017 * x + 0.0088
R = 1.0000
DL = 0.2754 ppb
BEC = 5.064 ppb

Weight: <None>
Min Conc: <None>

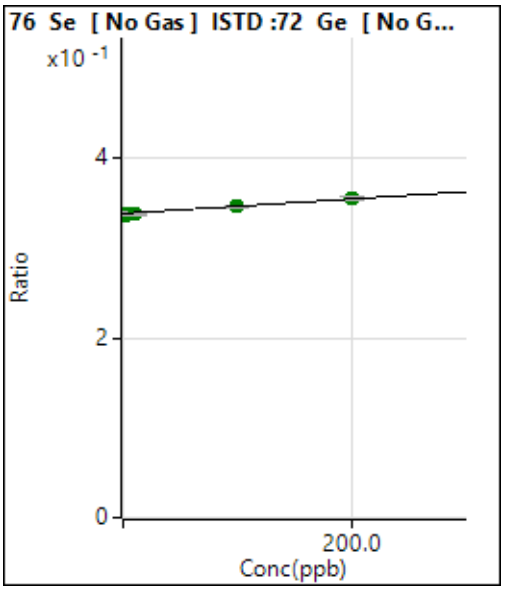


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	382.23	0.0003	P	5.7	
2	☐	2.000	1.995	4795.31	0.0037	P	4.4	-0.2
3	☐	5.000	4.912	11261.37	0.0086	P	4.2	-1.8
4	☐	10.000	9.535	21672.78	0.0164	P	3.9	-4.6
5	☐	100.000	99.432	218610.27	0.1686	P	2.6	-0.6
6	☐	200.000	200.309	431893.45	0.3393	P	0.8	0.2

y = 0.0017 * x + 2.9193E-004
R = 1.0000
DL = 0.02925 ppb
BEC = 0.1725 ppb

Weight: <None>
Min Conc: <None>

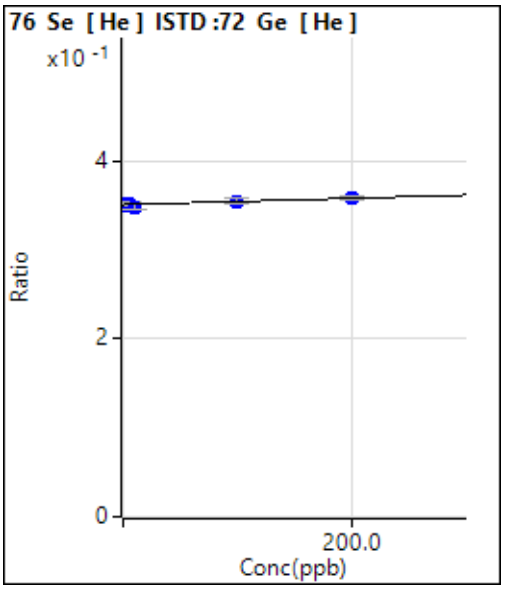
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1485249.93	0.3389	A	0.8	
2	☐	2.000	-36.633	1461274.46	0.3359	A	1.1	-1931.7
3	☐	5.000	5.647	1479452.74	0.3394	A	1.1	12.9
4	☐	10.000	-12.313	1471566.28	0.3379	A	0.8	-223.1
5	☐	100.000	89.102	1479840.19	0.3462	A	0.9	-10.9
6	☐	200.000	206.935	1499107.90	0.3558	A	1.7	3.5

y = 8.1418E-005 * x + 0.3389
R = 0.9864
DL = 101.4 ppb
BEC = 4163 ppb

Weight: <None>
Min Conc: <None>

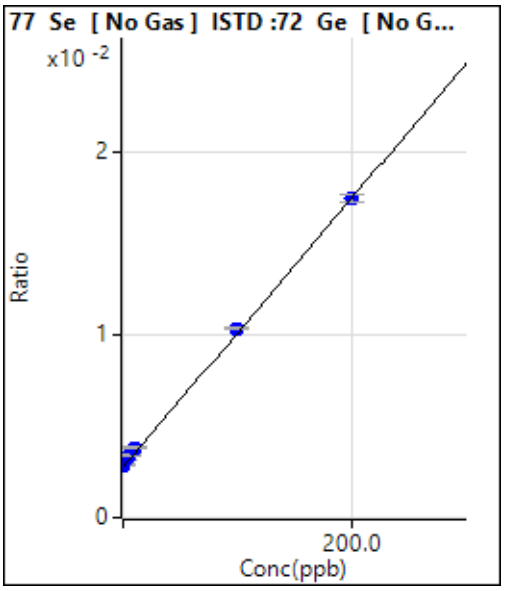


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	459691.47	0.3510	P	0.8	
2	☐	2.000	31.264	460360.41	0.3521	P	0.4	1463.2
3	☐	5.000	11.174	459918.29	0.3514	P	1.2	123.5
4	☐	10.000	-86.223	458955.23	0.3478	P	1.8	-962.2
5	☐	100.000	94.572	459698.25	0.3545	P	1.7	-5.4
6	☐	200.000	207.078	456381.75	0.3586	P	1.1	3.5

y = 3.6575E-005 * x + 0.3510
R = 0.9001
DL = 223.3 ppb
BEC = 9596 ppb

Weight: <None>
Min Conc: <None>

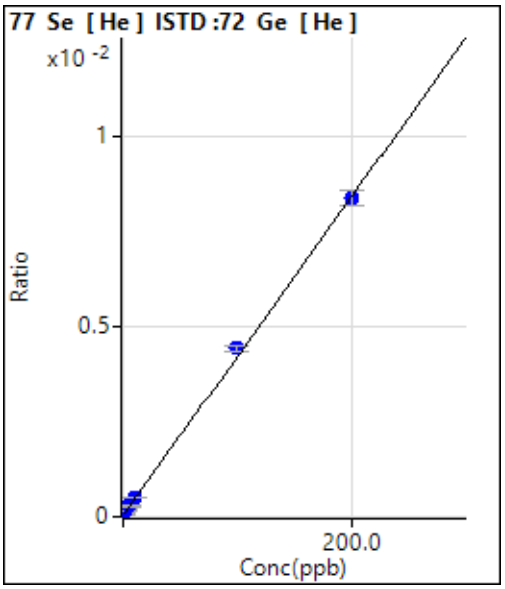
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12535.96	0.0029	P	4.3	
2	☐	2.000	3.757	13647.07	0.0031	P	1.5	87.8
3	☐	5.000	6.976	14708.22	0.0034	P	3.1	39.5
4	☐	10.000	12.967	16617.05	0.0038	P	2.2	29.7
5	☐	100.000	101.959	44295.56	0.0104	P	0.8	2.0
6	☐	200.000	198.805	73675.61	0.0175	P	2.0	-0.6

y = 7.3566E-005 * x + 0.0029
R = 0.9999
DL = 4.999 ppb
BEC = 38.89 ppb

Weight: <None>
Min Conc: <None>

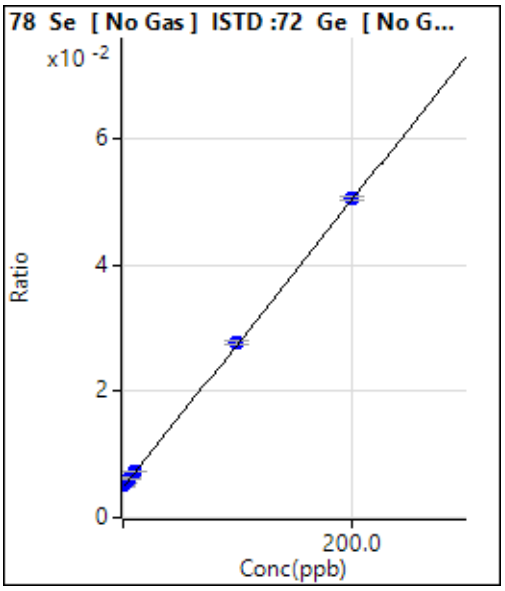


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	60.5	
2	☐	2.000	2.071	220.01	0.0002	P	25.1	3.6
3	☐	5.000	4.746	366.68	0.0003	P	12.9	-5.1
4	☐	10.000	9.924	656.70	0.0005	P	4.9	-0.8
5	☐	100.000	103.706	5751.33	0.0044	P	2.8	3.7
6	☐	200.000	198.156	10691.06	0.0084	P	5.2	-0.9

y = 4.1967E-005 * x + 8.1319E-005
R = 0.9998
DL = 3.519 ppb
BEC = 1.938 ppb

Weight: <None>
Min Conc: <None>

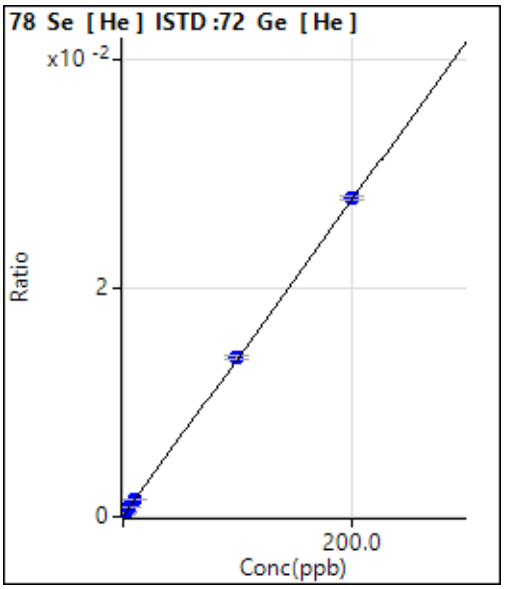
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22124.87	0.0050	P	1.2	
2	☐	2.000	1.709	23654.11	0.0054	P	3.6	-14.6
3	☐	5.000	4.921	26880.18	0.0062	P	2.6	-1.6
4	☐	10.000	9.763	31637.01	0.0073	P	2.6	-2.4
5	☐	100.000	99.411	118082.38	0.0276	P	1.7	-0.6
6	☐	200.000	200.311	212933.55	0.0505	P	1.0	0.2

y = 2.2707E-004 * x + 0.0050
R = 1.0000
DL = 0.7768 ppb
BEC = 22.24 ppb

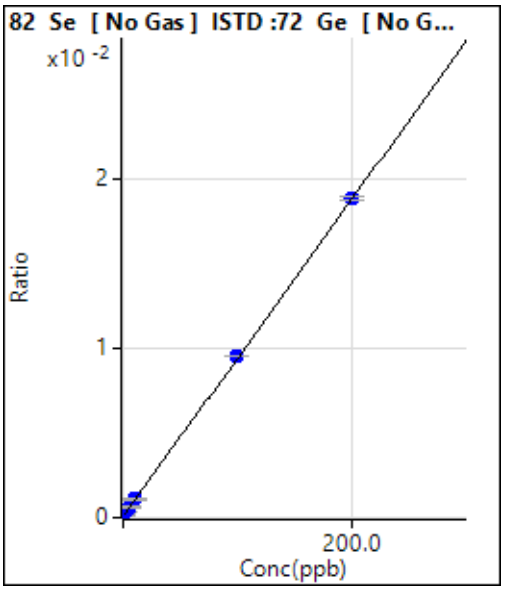
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.00	0.0002	P	13.6	
2	☐	2.000	1.663	540.68	0.0004	P	5.2	-16.9
3	☐	5.000	4.968	1140.05	0.0009	P	3.9	-0.6
4	☐	10.000	9.170	1917.48	0.0015	P	1.3	-8.3
5	☐	100.000	99.109	18035.92	0.0139	P	2.5	-0.9
6	☐	200.000	200.491	35576.93	0.0279	P	1.4	0.2

y = 1.3848E-004 * x + 1.8335E-004
R = 1.0000
DL = 0.5409 ppb
BEC = 1.324 ppb

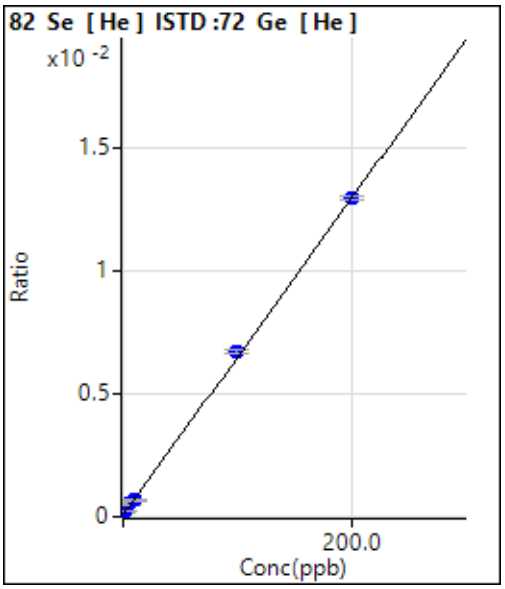
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763.37	0.0002	P	10.9	
2	☐	2.000	2.031	1583.45	0.0004	P	9.0	1.5
3	☐	5.000	4.763	2700.32	0.0006	P	8.6	-4.7
4	☐	10.000	10.087	4864.30	0.0011	P	7.5	0.9
5	☐	100.000	100.443	40898.49	0.0096	P	0.4	0.4
6	☐	200.000	199.780	79455.63	0.0189	P	1.4	-0.1

y = 9.3512E-005 * x + 1.7422E-004
R = 1.0000
DL = 0.6071 ppb
BEC = 1.863 ppb

Weight: <None>
Min Conc: <None>

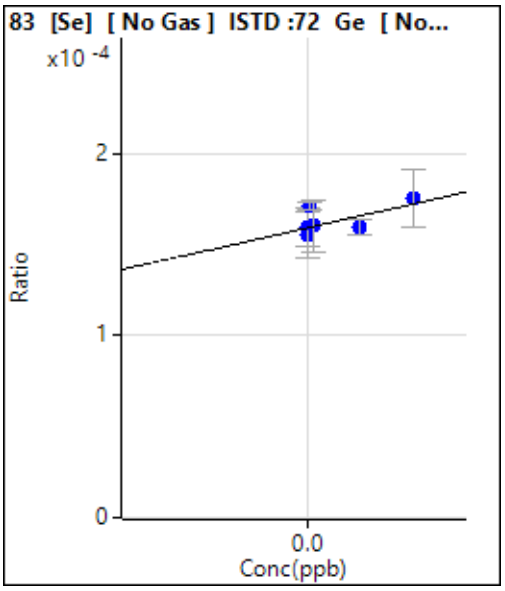


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	13.6	
2	☐	2.000	1.782	326.68	0.0002	P	10.0	-10.9
3	☐	5.000	5.797	666.70	0.0005	P	8.9	15.9
4	☐	10.000	8.437	896.71	0.0007	P	5.0	-15.6
5	☐	100.000	101.800	8699.58	0.0067	P	2.7	1.8
6	☐	200.000	199.160	16543.63	0.0130	P	1.6	-0.4

y = 6.4575E-005 * x + 1.3482E-004
R = 0.9999
DL = 0.8519 ppb
BEC = 2.088 ppb

Weight: <None>
Min Conc: <None>

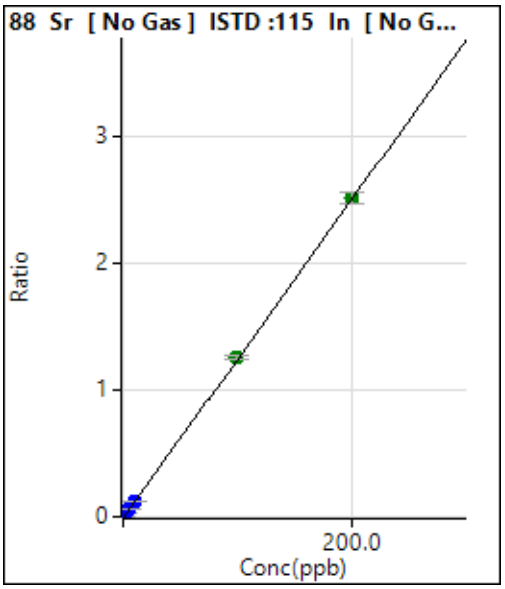
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	700.03	0.0002	P	13.1	
2	☐	2.000	-60.271	676.70	0.0002	P	15.9	-3113.6
3	☐	5.000	178.645	746.70	0.0002	P	2.4	3472.9
4	☐	10.000	14.147	700.04	0.0002	P	17.5	41.5
5	☐	100.000	4.280	683.36	0.0002	P	5.2	-95.7
6	☐	200.000	243.934	740.04	0.0002	P	18.3	22.0

y = 6.5579E-008 * x + 1.5957E-004
R = 0.6160
DL = 954.5 ppb
BEC = 2433 ppb

Weight: <None>
Min Conc: <None>

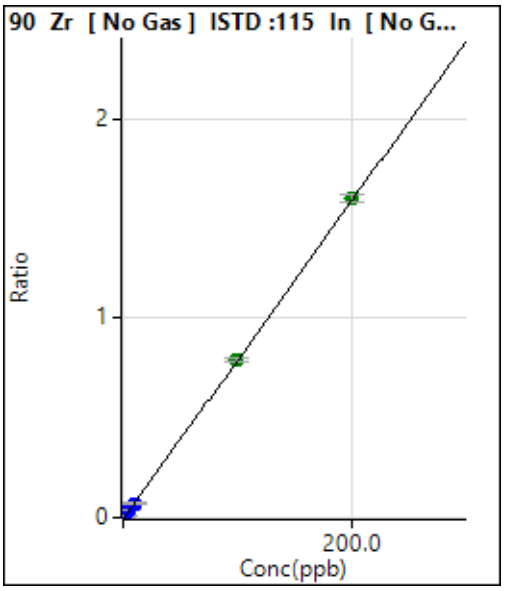


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3260.46	0.0007	P	7.3	
2	☐	2.000	1.960	119751.08	0.0253	P	2.2	-2.0
3	☐	5.000	4.907	294308.84	0.0623	P	1.2	-1.9
4	☐	10.000	9.580	574276.36	0.1210	P	2.7	-4.2
5	☐	100.000	99.945	5804252.21	1.2560	A	2.3	-0.1
6	☐	200.000	200.051	11520099.00	2.5133	A	3.8	0.0

y = 0.0126 * x + 6.8774E-004
R = 1.0000
DL = 0.01198 ppb
BEC = 0.05476 ppb

Weight: <None>
Min Conc: <None>

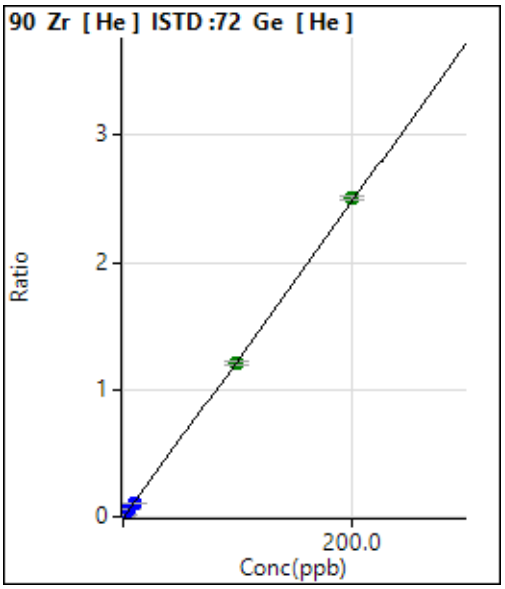
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1466.78	0.0003	P	10.7	
2	☐	2.000	1.662	64239.20	0.0136	P	1.7	-16.9
3	☐	5.000	4.428	168408.94	0.0357	P	1.9	-11.4
4	☐	10.000	8.999	342374.81	0.0721	P	2.1	-10.0
5	☐	100.000	98.894	3649659.84	0.7898	A	2.5	-1.1
6	☐	200.000	200.621	7343204.68	1.6018	A	2.9	0.3

y = 0.0080 * x + 3.0923E-004
R = 1.0000
DL = 0.0124 ppb
BEC = 0.03874 ppb

Weight: <None>
Min Conc: <None>

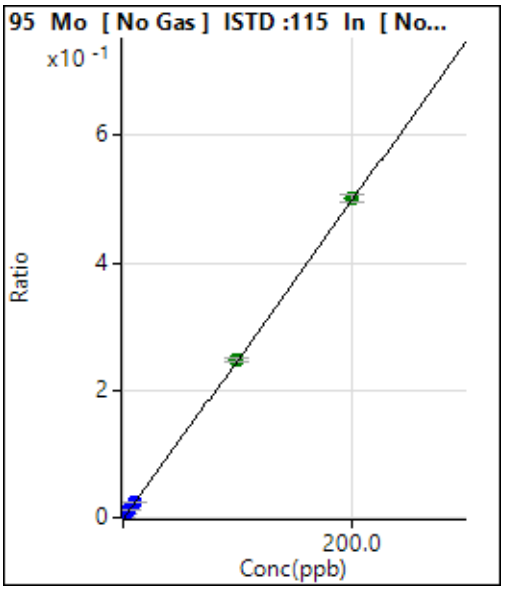


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0013	P	13.3	
2	☐	2.000	1.651	28590.55	0.0219	P	2.8	-17.4
3	☐	5.000	4.304	71784.04	0.0549	P	3.7	-13.9
4	☐	10.000	8.738	145111.28	0.1100	P	2.1	-12.6
5	☐	100.000	97.192	1568937.94	1.2098	A	2.6	-2.8
6	☐	200.000	201.488	3190753.91	2.5066	A	1.2	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.04308 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

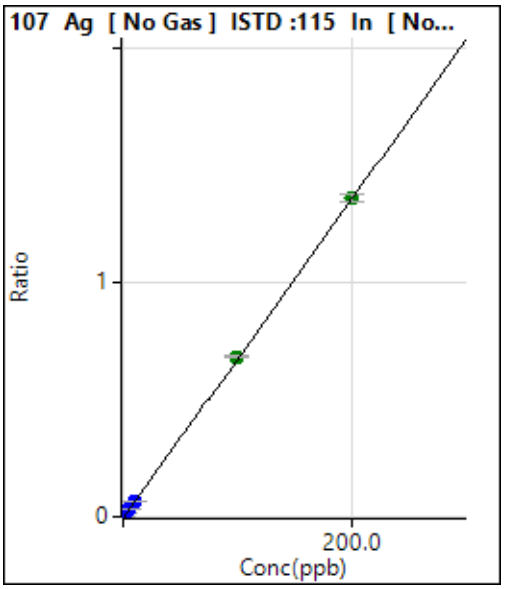
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0000	P	36.3	
2	☐	2.000	1.984	23634.37	0.0050	P	2.0	-0.8
3	☐	5.000	4.892	57897.82	0.0123	P	2.3	-2.2
4	☐	10.000	9.505	112871.37	0.0238	P	3.7	-5.0
5	☐	100.000	98.809	1141058.08	0.2469	A	2.3	-1.2
6	☐	200.000	200.623	2298088.87	0.5013	A	3.0	0.3

y = 0.0025 * x + 3.7288E-005
R = 1.0000
DL = 0.01627 ppb
BEC = 0.01492 ppb

Weight: <None>
Min Conc: <None>

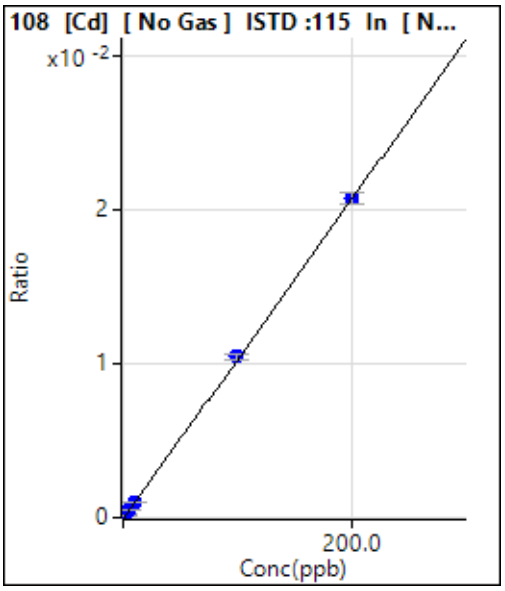


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2296.90	0.0005	P	6.0	
2	☐	2.000	1.994	66455.11	0.0140	P	1.9	-0.3
3	☐	5.000	5.037	163995.15	0.0347	P	1.6	0.7
4	☐	10.000	9.925	322478.65	0.0679	P	2.3	-0.7
5	☐	100.000	100.325	3153758.18	0.6824	A	1.8	0.3
6	☐	200.000	199.840	6229417.20	1.3588	A	2.6	-0.1

y = 0.0068 * x + 4.8435E-004
R = 1.0000
DL = 0.01281 ppb
BEC = 0.07126 ppb

Weight: <None>
Min Conc: <None>

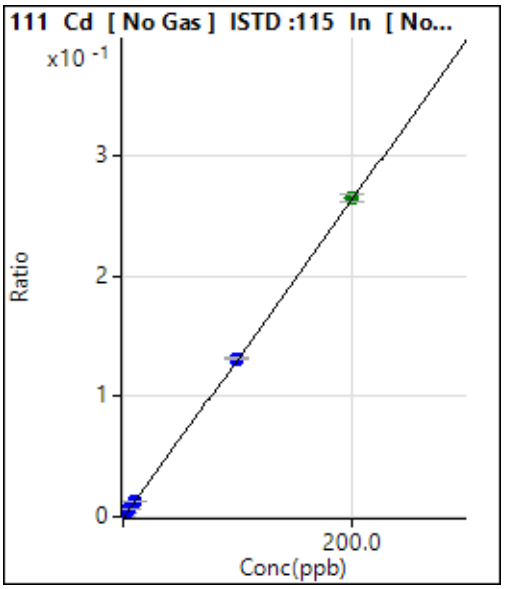
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.926	946.72	0.0002	P	18.1	-3.7
3	☐	5.000	5.198	2550.29	0.0005	P	6.4	4.0
4	☐	10.000	9.805	4837.64	0.0010	P	8.1	-2.0
5	☐	100.000	100.608	48307.86	0.0105	P	2.9	0.6
6	☐	200.000	199.702	95131.36	0.0208	P	3.0	-0.1

y = 1.0391E-004 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

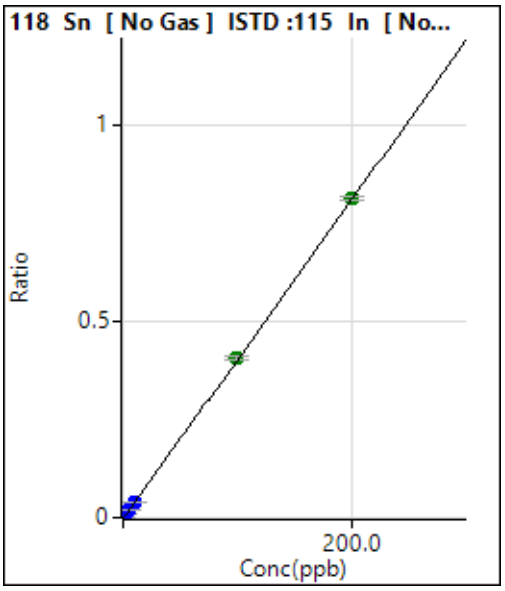


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	57.4	
2	☐	2.000	1.987	12451.22	0.0026	P	1.9	-0.6
3	☐	5.000	4.843	30241.42	0.0064	P	1.2	-3.1
4	☐	10.000	9.712	60916.14	0.0128	P	1.6	-2.9
5	☐	100.000	99.235	605816.20	0.1311	P	1.2	-0.8
6	☐	200.000	200.401	1213565.93	0.2647	A	2.4	0.2

y = 0.0013 * x + 5.6211E-006
R = 1.0000
DL = 0.00733 ppb
BEC = 0.004256 ppb

Weight: <None>
Min Conc: <None>

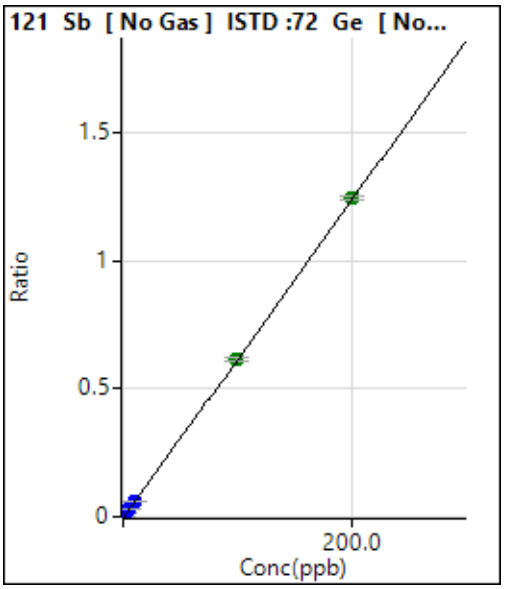
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5281.14	0.0011	P	0.4	
2	☐	2.000	1.948	42776.11	0.0090	P	3.4	-2.6
3	☐	5.000	4.882	99041.63	0.0210	P	1.1	-2.4
4	☐	10.000	9.745	193400.49	0.0408	P	2.7	-2.5
5	☐	100.000	100.095	1886645.18	0.4082	A	2.0	0.1
6	☐	200.000	199.968	3734205.05	0.8145	A	1.7	0.0

y = 0.0041 * x + 0.0011
R = 1.0000
DL = 0.00332 ppb
BEC = 0.2738 ppb

Weight: <None>
Min Conc: <None>

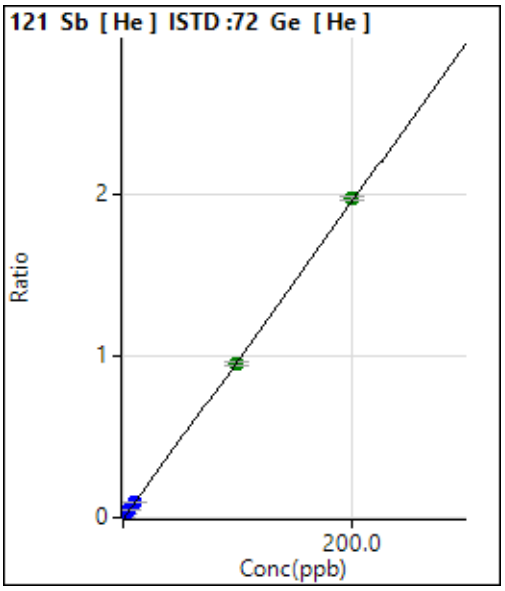


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	810.04	0.0002	P	6.7	
2	☐	2.000	2.026	55486.61	0.0128	P	1.2	1.3
3	☐	5.000	5.063	137717.32	0.0316	P	3.1	1.3
4	☐	10.000	9.625	260768.32	0.0599	P	2.8	-3.8
5	☐	100.000	99.090	2628426.99	0.6148	A	1.8	-0.9
6	☐	200.000	200.472	5240358.67	1.2437	A	1.8	0.2

y = 0.0062 * x + 1.8478E-004
R = 1.0000
DL = 0.006021 ppb
BEC = 0.02979 ppb

Weight: <None>
Min Conc: <None>

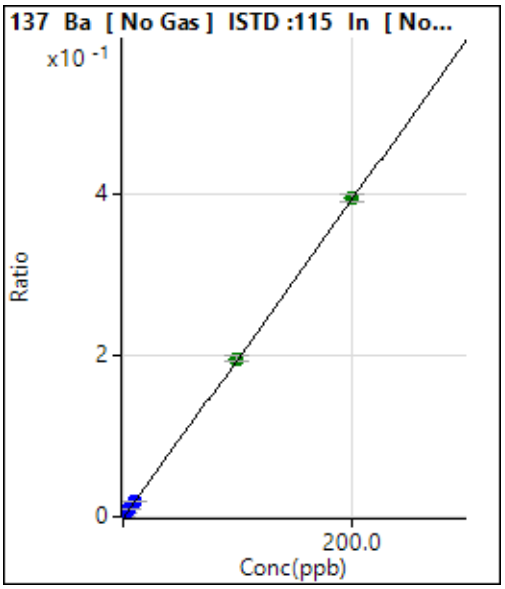
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.34	0.0003	P	12.0	
2	☐	2.000	1.982	25782.04	0.0197	P	5.8	-0.9
3	☐	5.000	4.835	62413.75	0.0477	P	2.9	-3.3
4	☐	10.000	9.288	120528.48	0.0914	P	3.4	-7.1
5	☐	100.000	97.363	1238337.09	0.9549	A	2.7	-2.6
6	☐	200.000	201.358	2513333.14	1.9745	A	0.9	0.7

y = 0.0098 * x + 2.9261E-004
R = 0.9999
DL = 0.0107 ppb
BEC = 0.02984 ppb

Weight: <None>
Min Conc: <None>

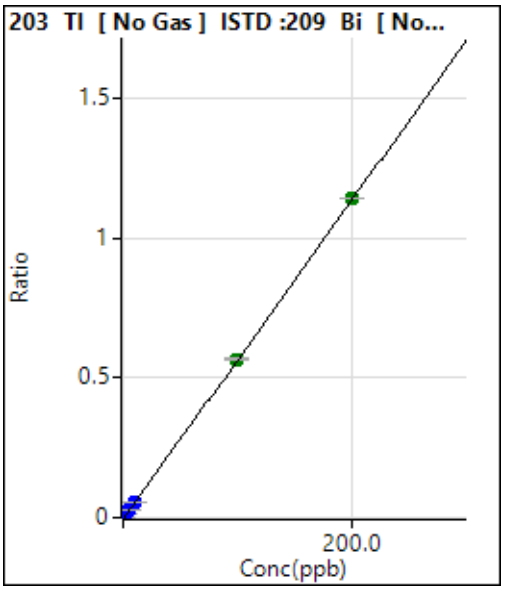


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	9.9	
2	☐	2.000	1.947	18540.05	0.0039	P	3.0	-2.7
3	☐	5.000	4.953	46549.73	0.0099	P	2.7	-0.9
4	☐	10.000	9.655	90866.92	0.0191	P	2.9	-3.5
5	☐	100.000	99.487	908757.64	0.1967	A	2.7	-0.5
6	☐	200.000	200.276	1814616.38	0.3958	A	2.1	0.1

y = 0.0020 * x + 7.0265E-005
R = 1.0000
DL = 0.01052 ppb
BEC = 0.03556 ppb

Weight: <None>
Min Conc: <None>

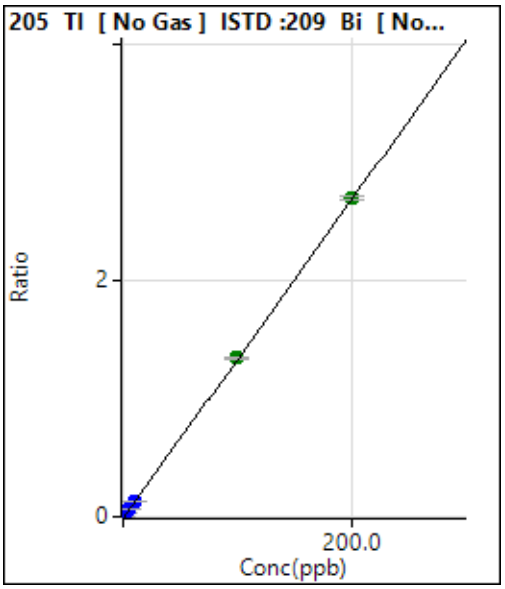
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.01	0.0001	P	17.9	
2	☐	2.000	1.918	43090.77	0.0110	P	0.5	-4.1
3	☐	5.000	4.880	109658.86	0.0279	P	3.4	-2.4
4	☐	10.000	9.614	215933.32	0.0549	P	1.9	-3.9
5	☐	100.000	99.462	2207395.07	0.5676	A	1.1	-0.5
6	☐	200.000	200.292	4337055.25	1.1429	A	0.5	0.1

y = 0.0057 * x + 9.0328E-005
R = 1.0000
DL = 0.008496 ppb
BEC = 0.01583 ppb

Weight: <None>
Min Conc: <None>

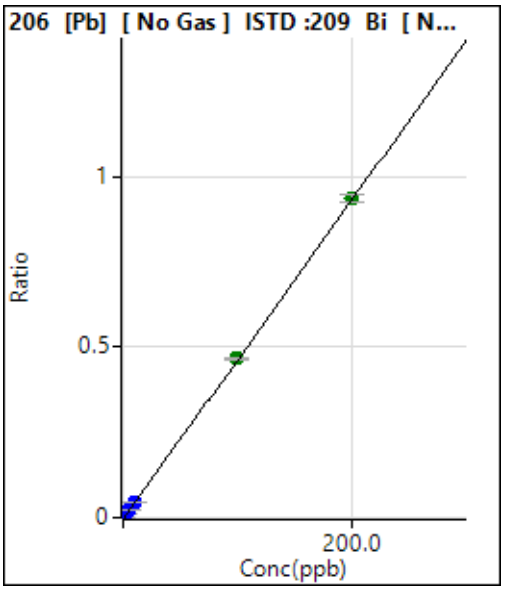


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	873.38	0.0002	P	7.1	
2	☐	2.000	1.907	101568.99	0.0260	P	0.6	-4.6
3	☐	5.000	4.882	259934.32	0.0662	P	2.3	-2.4
4	☐	10.000	9.722	517267.84	0.1316	P	1.2	-2.8
5	☐	100.000	99.868	5250326.28	1.3501	A	0.9	-0.1
6	☐	200.000	200.084	10262680.05	2.7046	A	1.4	0.0

y = 0.0135 * x + 2.2514E-004
R = 1.0000
DL = 0.003542 ppb
BEC = 0.01666 ppb

Weight: <None>
Min Conc: <None>

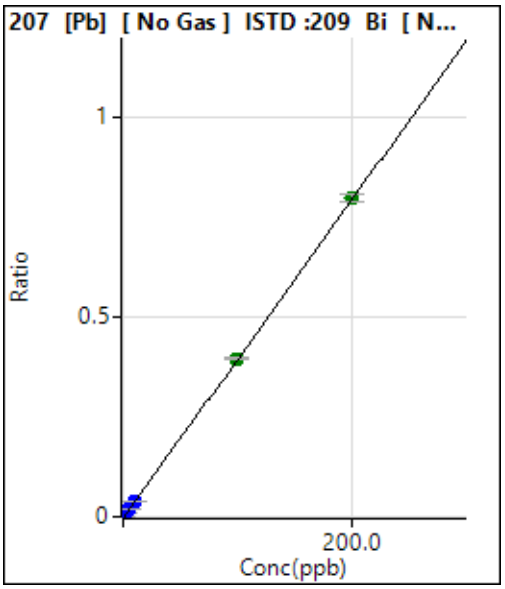
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1036.73	0.0003	P	13.4	
2	☐	2.000	2.009	37683.82	0.0096	P	1.4	0.4
3	☐	5.000	4.922	91307.25	0.0233	P	2.7	-1.6
4	☐	10.000	9.790	180745.83	0.0460	P	2.2	-2.1
5	☐	100.000	99.601	1810292.42	0.4655	A	1.0	-0.4
6	☐	200.000	200.212	3549382.34	0.9354	A	2.0	0.1

y = 0.0047 * x + 2.6727E-004
R = 1.0000
DL = 0.023 ppb
BEC = 0.05722 ppb

Weight: <None>
Min Conc: <None>

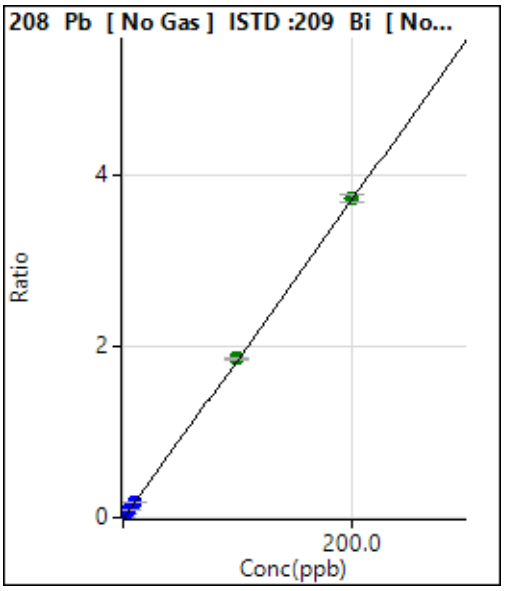


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1043.40	0.0003	P	8.0	
2	☐	2.000	1.960	31600.28	0.0081	P	3.5	-2.0
3	☐	5.000	4.968	78890.64	0.0201	P	2.6	-0.6
4	☐	10.000	9.752	154006.69	0.0392	P	2.2	-2.5
5	☐	100.000	99.307	1542428.47	0.3966	A	1.1	-0.7
6	☐	200.000	200.360	3035245.37	0.7999	A	2.6	0.2

y = 0.0040 * x + 2.6894E-004
R = 1.0000
DL = 0.01621 ppb
BEC = 0.06738 ppb

Weight: <None>
Min Conc: <None>

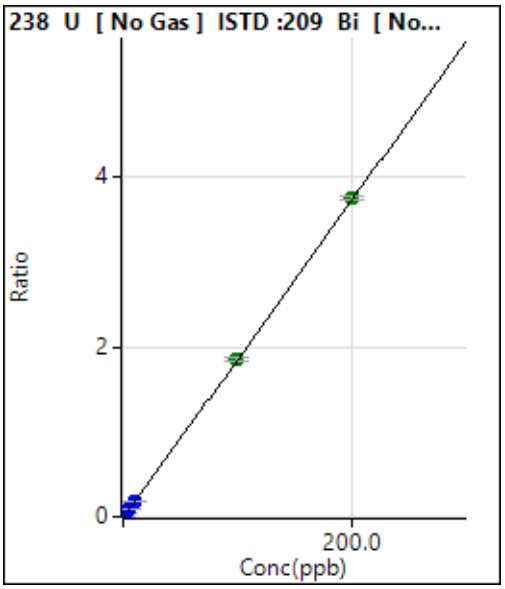
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4273.70	0.0011	P	11.2	
2	☐	2.000	1.986	148352.83	0.0380	P	0.5	-0.7
3	☐	5.000	4.951	365304.03	0.0931	P	2.5	-1.0
4	☐	10.000	9.772	717640.66	0.1826	P	1.9	-2.3
5	☐	100.000	99.541	7194678.54	1.8499	A	0.9	-0.5
6	☐	200.000	200.242	14116509.89	3.7203	A	2.1	0.1

y = 0.0186 * x + 0.0011
R = 1.0000
DL = 0.01985 ppb
BEC = 0.0593 ppb

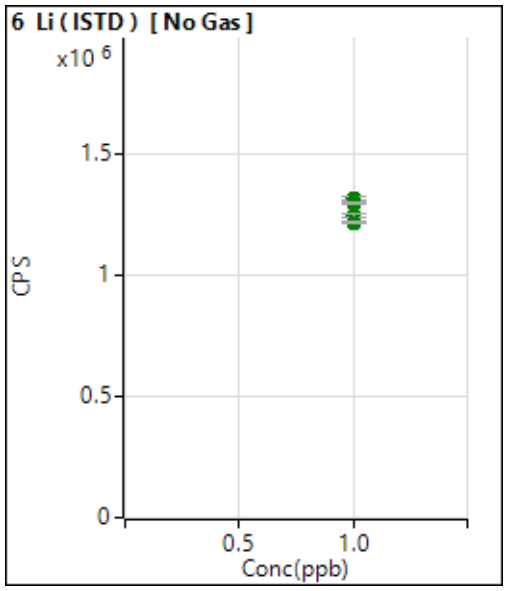
Weight: <None>
Min Conc: <None>



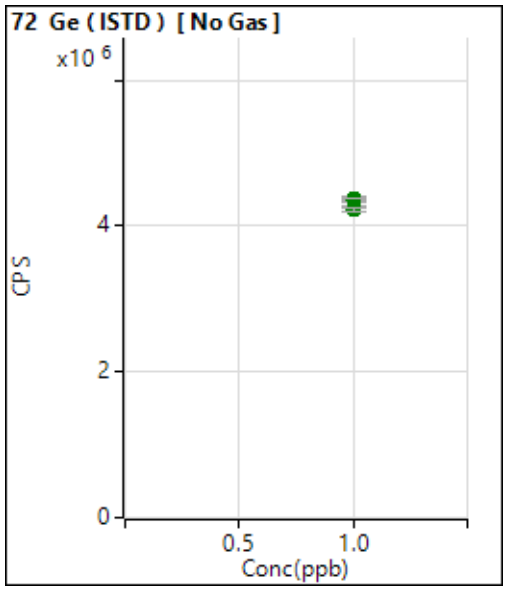
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	6.2	
2	☐	2.000	1.891	139001.11	0.0356	P	1.5	-5.4
3	☐	5.000	4.684	345048.00	0.0879	P	1.7	-6.3
4	☐	10.000	9.358	689339.86	0.1754	P	1.9	-6.4
5	☐	100.000	98.865	7201369.68	1.8515	A	1.9	-1.1
6	☐	200.000	200.609	14254858.12	3.7567	A	1.4	0.3

y = 0.0187 * x + 1.7020E-004
R = 1.0000
DL = 0.001693 ppb
BEC = 0.009089 ppb

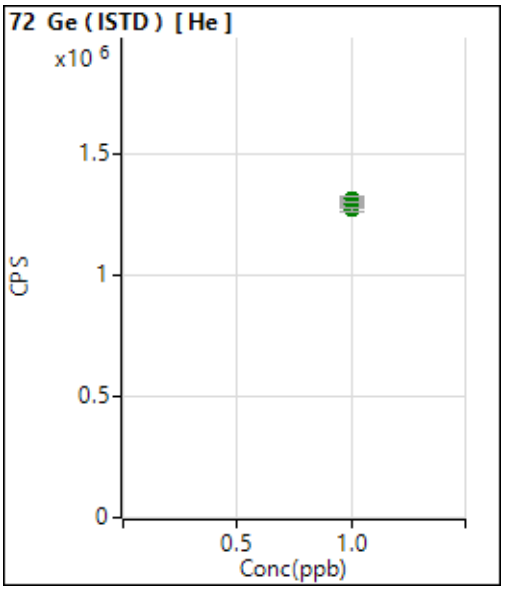
Weight: <None>
Min Conc: <None>



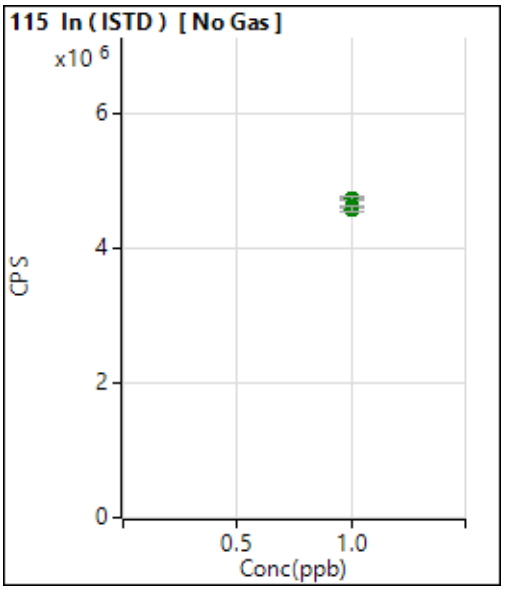
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1318920.00		A	0.9	
2	☐	1.000		1301259.53		A	0.7	
3	☐	1.000		1299874.83		A	0.2	
4	☐	1.000		1296219.91		A	0.5	
5	☐	1.000		1246482.60		A	1.3	
6	☐	1.000		1216568.14		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4382506.71		A	1.5	
2	☐	1.000		4350165.56		A	0.6	
3	☐	1.000		4359608.37		A	0.7	
4	☐	1.000		4355207.96		A	1.3	
5	☐	1.000		4275006.18		A	0.1	
6	☐	1.000		4214142.02		A	1.4	

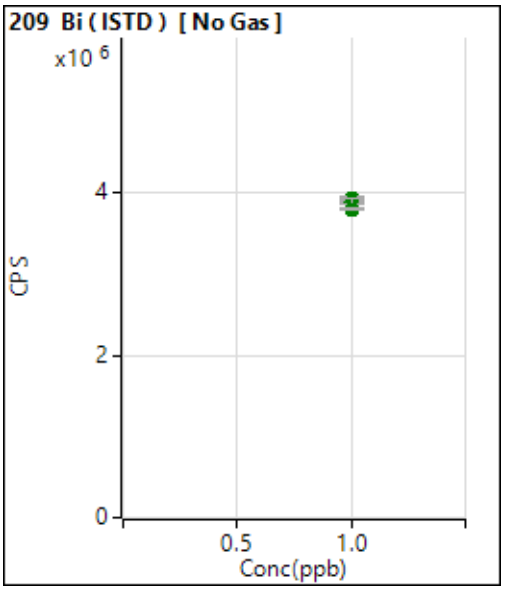


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1309647.74		A	0.7	
2	☐	1.000		1307344.82		A	0.4	
3	☐	1.000		1309023.94		A	2.0	
4	☐	1.000		1319654.90		A	1.3	
5	☐	1.000		1297008.65		A	0.9	
6	☐	1.000		1272893.44		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4742062.03		A	0.7	
2	☐	1.000		4733135.13		A	0.4	
3	☐	1.000		4722922.10		A	0.6	
4	☐	1.000		4746367.22		A	0.8	
5	☐	1.000		4621745.75		A	1.0	
6	☐	1.000		4585729.81		A	1.9	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3878293.90		A	0.8	
2	☐	1.000		3905682.23		A	0.4	
3	☐	1.000		3926226.61		A	0.9	
4	☐	1.000		3930032.34		A	1.2	
5	☐	1.000		3889251.09		A	1.5	
6	☐	1.000		3794728.80		A	0.8	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:54:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	79004	0.00
Be	9	1	No Gas	50	52.92
V	51	2	He	3530	0.13
Cr	52	2	He	13600	0.01
Fe	56	2	He	18743	0.02
Se	78	2	He	240	5.42
As	75	2	He	382	1.32
Ca	44	2	He	2154	0.71
Na	23	2	He	140133	0.00
Mg	24	2	He	687	1.24
K	39	2	He	156552	0.00
Mn	55	2	He	727	0.79
Co	59	2	He	107	13.43
Ni	60	2	He	543	0.20
Cu	63	2	He	1760	0.43
Zn	66	2	He	1560	0.21
Al	27	2	He	2454	0.11
B	11	1	No Gas	21122	0.00
Al	27	1	No Gas	92044	0.00
Si	28	1	No Gas	1015381	0.00
Ag	107	1	No Gas	2297	0.27
Cd	111	1	No Gas	27	214.81
Sr	88	1	No Gas	3260	0.21
Mo	95	1	No Gas	177	20.35
Sn	118	1	No Gas	5281	0.01
Sb	121	1	No Gas	810	0.93
Ba	137	1	No Gas	333	3.16
Tl	205	1	No Gas	873	0.87
Tl	203	1	No Gas	350	4.90
Pb	208	1	No Gas	4274	0.28
U	238	1	No Gas	660	0.92
Ca	43	2	He	40	62.50
Sb	121	2	He	383	3.22
Ti	47	2	He	63	188.75
Cu	63	1	No Gas	3647	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1318920	0.94
Ge	72	2	He	1309648	0.68
Ge	72	1	No Gas	4382507	1.45
In	115	1	No Gas	4742062	0.72

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3878294	0.78

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:57:00-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10582	0.01
V	51	2	He	24137	0.01
Cr	52	2	He	37484	0.00
Fe	56	2	He	2255652	0.00
Se	78	2	He	541	0.91
As	75	2	He	4795	0.08
Ca	44	2	He	14698	0.04
Na	23	2	He	475448	0.00
Mg	24	2	He	210951	0.00
K	39	2	He	403030	0.00
Mn	55	2	He	18132	0.02
Co	59	2	He	38146	0.00
Ni	60	2	He	10057	0.05
Cu	63	2	He	27782	0.01
Zn	66	2	He	6492	0.08
Al	27	2	He	3897	0.11
B	11	1	No Gas	53365	0.00
Al	27	1	No Gas	139598	0.00
Si	28	1	No Gas	1085201	0.00
Ag	107	1	No Gas	66455	0.00
Cd	111	1	No Gas	12451	0.01
Sr	88	1	No Gas	119751	0.00
Mo	95	1	No Gas	23634	0.01
Sn	118	1	No Gas	42776	0.01
Sb	121	1	No Gas	55487	0.00
Ba	137	1	No Gas	18540	0.02
Tl	205	1	No Gas	101569	0.00
Tl	203	1	No Gas	43091	0.00
Pb	208	1	No Gas	148353	0.00
U	238	1	No Gas	139001	0.00
Ca	43	2	He	860	0.36
Sb	121	2	He	25782	0.02
Cu	63	1	No Gas	55395	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1301260	0.73	1318920	98.66	70	120	
Ge	72	2	He	1307345	0.42	1309648	99.82	70	120	
Ge	72	1	No Gas	4350166	0.65	4382507	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4733135	0.39	4742062	99.81	70	120	
Bi	209	1	No Gas	3905682	0.38	3878294	100.71	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:59:40-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	26780	0.01
V	51	2	He	54784	0.00
Cr	52	2	He	73136	0.00
Fe	56	2	He	5643622	0.00
Se	78	2	He	1140	0.17
As	75	2	He	11261	0.04
Ca	44	2	He	34206	0.00
Na	23	2	He	979550	0.00
Mg	24	2	He	524830	0.00
K	39	2	He	772778	0.00
Mn	55	2	He	44833	0.00
Co	59	2	He	93855	0.00
Ni	60	2	He	24479	0.01
Cu	63	2	He	67546	0.00
Zn	66	2	He	14181	0.02
Al	27	2	He	5838	0.08
B	11	1	No Gas	102413	0.00
Al	27	1	No Gas	217397	0.00
Si	28	1	No Gas	1228470	0.00
Ag	107	1	No Gas	163995	0.00
Cd	111	1	No Gas	30241	0.00
Sr	88	1	No Gas	294309	0.00
Mo	95	1	No Gas	57898	0.00
Sn	118	1	No Gas	99042	0.00
Sb	121	1	No Gas	137717	0.00
Ba	137	1	No Gas	46550	0.00
Tl	205	1	No Gas	259934	0.00
Tl	203	1	No Gas	109659	0.00
Pb	208	1	No Gas	365304	0.00
U	238	1	No Gas	345048	0.00
Ca	43	2	He	1883	0.39
Sb	121	2	He	62414	0.00
Cu	63	1	No Gas	133527	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1299875	0.18	1318920	98.56	70	120	
Ge	72	2	He	1309024	1.98	1309648	99.95	70	120	
Ge	72	1	No Gas	4359608	0.73	4382507	99.48	70	120	

Calibration Standard Report

In	115	1	No Gas	4722922	0.65	4742062	99.60	70	120	
Bi	209	1	No Gas	3926227	0.94	3878294	101.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:02:21-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	52779	0.01
V	51	2	He	105398	0.00
Cr	52	2	He	128849	0.00
Fe	56	2	He	11033917	0.00
Se	78	2	He	1917	0.05
As	75	2	He	21673	0.01
Ca	44	2	He	66777	0.00
Na	23	2	He	1776734	0.00
Mg	24	2	He	1028068	0.00
K	39	2	He	1378083	0.00
Mn	55	2	He	86577	0.00
Co	59	2	He	181917	0.00
Ni	60	2	He	48877	0.01
Cu	63	2	He	128033	0.00
Zn	66	2	He	27475	0.01
Al	27	2	He	9247	0.06
B	11	1	No Gas	182699	0.00
Al	27	1	No Gas	337837	0.00
Si	28	1	No Gas	1463876	0.00
Ag	107	1	No Gas	322479	0.00
Cd	111	1	No Gas	60916	0.00
Sr	88	1	No Gas	574276	0.00
Mo	95	1	No Gas	112871	0.00
Sn	118	1	No Gas	193400	0.00
Sb	121	1	No Gas	260768	0.00
Ba	137	1	No Gas	90867	0.00
Tl	205	1	No Gas	517268	0.00
Tl	203	1	No Gas	215933	0.00
Pb	208	1	No Gas	717641	0.00
U	238	1	No Gas	689340	0.00
Ca	43	2	He	3921	0.30
Sb	121	2	He	120528	0.00
Cu	63	1	No Gas	256911	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1296220	0.55	1318920	98.28	70	120	
Ge	72	2	He	1319655	1.28	1309648	100.76	70	120	
Ge	72	1	No Gas	4355208	1.29	4382507	99.38	70	120	

Calibration Standard Report

In	115	1	No Gas	4746367	0.84	4742062	100.09	70	120	
Bi	209	1	No Gas	3930032	1.17	3878294	101.33	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:05:00-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	503381	0.00
V	51	2	He	1034922	0.00
Cr	52	2	He	1171940	0.00
Fe	56	2	He	113401448	0.00
Se	78	2	He	18036	0.01
As	75	2	He	218610	0.00
Ca	44	2	He	651031	0.00
Na	23	2	He	17068478	0.00
Mg	24	2	He	10589005	0.00
K	39	2	He	12547030	0.00
Mn	55	2	He	877731	0.00
Co	59	2	He	1859126	0.00
Ni	60	2	He	483720	0.00
Cu	63	2	He	1286777	0.00
Zn	66	2	He	262092	0.00
Al	27	2	He	68798	0.01
B	11	1	No Gas	1666055	0.00
Al	27	1	No Gas	2490340	0.00
Si	28	1	No Gas	5956593	0.00
Ag	107	1	No Gas	3153758	0.00
Cd	111	1	No Gas	605816	0.00
Sr	88	1	No Gas	5804252	0.00
Mo	95	1	No Gas	1141058	0.00
Sn	118	1	No Gas	1886645	0.00
Sb	121	1	No Gas	2628427	0.00
Ba	137	1	No Gas	908758	0.00
Tl	205	1	No Gas	5250326	0.00
Tl	203	1	No Gas	2207395	0.00
Pb	208	1	No Gas	7194679	0.00
U	238	1	No Gas	7201370	0.00
Ca	43	2	He	38601	0.01
Sb	121	2	He	1238337	0.00
Cu	63	1	No Gas	2463851	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1246483	1.29	1318920	94.51	70	120	
Ge	72	2	He	1297009	0.94	1309648	99.03	70	120	
Ge	72	1	No Gas	4275006	0.12	4382507	97.55	70	120	

Calibration Standard Report

In	115	1	No Gas	4621746	0.97	4742062	97.46	70	120	
Bi	209	1	No Gas	3889251	1.53	3878294	100.28	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:07:41-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1034973	0.00
V	51	2	He	2103225	0.00
Cr	52	2	He	2349508	0.00
Fe	56	2	He	224603710	0.00
Se	78	2	He	35577	0.01
As	75	2	He	431893	0.00
Ca	44	2	He	1324169	0.00
Na	23	2	He	33416076	0.00
Mg	24	2	He	20817141	0.00
K	39	2	He	24899699	0.00
Mn	55	2	He	1742799	0.00
Co	59	2	He	3709878	0.00
Ni	60	2	He	951408	0.00
Cu	63	2	He	2583324	0.00
Zn	66	2	He	515374	0.00
Al	27	2	He	133578	0.00
B	11	1	No Gas	3287218	0.00
Al	27	1	No Gas	4840908	0.00
Si	28	1	No Gas	10856764	0.00
Ag	107	1	No Gas	6229417	0.00
Cd	111	1	No Gas	1213566	0.00
Sr	88	1	No Gas	11520099	0.00
Mo	95	1	No Gas	2298089	0.00
Sn	118	1	No Gas	3734205	0.00
Sb	121	1	No Gas	5240359	0.00
Ba	137	1	No Gas	1814616	0.00
Tl	205	1	No Gas	10262680	0.00
Tl	203	1	No Gas	4337055	0.00
Pb	208	1	No Gas	14116510	0.00
U	238	1	No Gas	14254858	0.00
Ca	43	2	He	76647	0.00
Sb	121	2	He	2513333	0.00
Cu	63	1	No Gas	4807988	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1216568	0.51	1318920	92.24	70	120	
Ge	72	2	He	1272893	1.04	1309648	97.19	70	120	
Ge	72	1	No Gas	4214142	1.40	4382507	96.16	70	120	

Calibration Standard Report

In	115	1	No Gas	4585730	1.85	4742062	96.70	70	120	
Bi	209	1	No Gas	3794729	0.76	3878294	97.85	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:17:36-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.058	2.058	2.25	114403	0.00	2	
Be	9	1	No Gas	2.062	2.062	3.78	10681	0.02	2	
V	51	2	He	1.989	1.989	3.72	24941	0.01	2	
Cr	52	2	He	2.048	2.048	4.13	38210	0.01	2	
Fe	56	2	He	204.533	204.533	2.06	2385163	0.01	200	
Se	78	2	He	1.999	1.999	7.82	605	0.33	2	
As	75	2	He	2.123	2.123	8.94	5103	0.04	2	
Ca	44	2	He	195.257	195.257	5.01	15382	1.27	200	
Na	23	2	He	206.460	206.460	3.35	495096	0.04	200	
Mg	24	2	He	209.418	209.418	2.79	225588	0.09	200	
K	39	2	He	200.675	200.675	3.66	412480	0.05	200	
Mn	55	2	He	2.060	2.060	2.73	19210	0.01	2	
Co	59	2	He	2.092	2.092	3.97	40032	0.01	2	
Ni	60	2	He	2.091	2.091	4.98	10801	0.02	2	
Cu	63	2	He	2.084	2.084	5.00	29399	0.01	2	
Zn	66	2	He	1.945	1.945	3.64	6718	0.03	2	
Al	27	2	He	1.788	1.788	17.50	3671	0.05	2	
B	11	1	No Gas	11.014	11.014	3.66	57573	0.02	10	
Al	27	1	No Gas	2.018	2.018	4.23	140961	0.00	2	
Si	28	1	No Gas	4.788	4.788	26.45	1057441	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.046	2.046	1.56	68529	0.00	2	
Cd	111	1	No Gas	1.999	1.999	2.59	12597	0.02	2	
Sr	88	1	No Gas	1.988	1.988	3.10	122165	0.00	2	
Mo	95	1	No Gas	2.011	2.011	1.65	24099	0.01	2	
Sn	118	1	No Gas	2.047	2.047	1.27	44953	0.00	2	
Sb	121	1	No Gas	2.148	2.148	1.94	58817	0.00	2	
Ba	137	1	No Gas	1.989	1.989	0.32	19047	0.01	2	
Tl	205	1	No Gas	1.951	1.951	0.90	104556	0.00	2	
Tl	203	1	No Gas	1.940	1.940	3.45	43874	0.00	2	
Pb	208	1	No Gas	2.031	2.031	2.26	152606	0.00	2	
U	238	1	No Gas	1.933	1.933	1.23	142982	0.00	2	
Ca	43	2	He	209.439	209.439	8.29	867	24.16	200	
Sb	121	2	He	2.132	2.132	4.67	27856	0.01	2	
Ti	47	2	He	2.185	2.185	10.56	943	0.23	200	
Cu	63	1	No Gas	2.130	2.130	2.51	56590	0.00	2	
Se	82	1	No Gas	2.132	2.132	12.86	1627	0.13	2	
Zr	90	1	No Gas	1.697	1.697	2.22	65988	0.00	2	
Zr	90	2	He	1.761	1.761	5.13	30532	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1276931	1.04	1318920	96.82	70	120	
Ge	72	2	He	1314209	0.91	1309648	100.35	70	120	
Ge	72	1	No Gas	4354208	0.51	4382507	99.35	70	120	
In	115	1	No Gas	4761329	0.68	4742062	100.41	70	120	
Bi	209	1	No Gas	3931158	1.25	3878294	101.36	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:20:00-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.976	4.976	1.30	168373	0.00	5	
Be	9	1	No Gas	5.277	5.277	0.71	27303	0.02	5	
V	51	2	He	4.979	4.979	1.45	57379	0.01	5	
Cr	52	2	He	5.124	5.124	2.12	75455	0.01	5	
Fe	56	2	He	507.890	507.890	1.58	5922687	0.01	500	
Se	78	2	He	4.872	4.872	7.84	1133	0.43	5	
As	75	2	He	5.006	5.006	2.28	11572	0.04	5	
Ca	44	2	He	500.539	500.539	2.40	36231	1.38	500	
Na	23	2	He	508.344	508.344	2.11	1018236	0.05	500	
Mg	24	2	He	508.356	508.356	2.01	549230	0.09	500	
K	39	2	He	502.060	502.060	1.82	799840	0.06	500	
Mn	55	2	He	5.014	5.014	1.06	45920	0.01	5	
Co	59	2	He	5.134	5.134	3.41	98538	0.01	5	
Ni	60	2	He	5.168	5.168	4.68	26018	0.02	5	
Cu	63	2	He	5.194	5.194	1.89	70990	0.01	5	
Zn	66	2	He	5.115	5.115	3.91	15189	0.03	5	
Al	27	2	He	5.231	5.231	11.20	6028	0.09	5	
B	11	1	No Gas	25.294	25.294	2.05	105846	0.02	25	
Al	27	1	No Gas	5.288	5.288	2.98	221715	0.00	5	
Si	28	1	No Gas	21.431	21.431	11.26	1229967	0.00	25	
Ag	107	1	No Gas	5.098	5.098	1.78	167170	0.00	5	
Cd	111	1	No Gas	5.092	5.092	5.30	32028	0.02	5	
Sr	88	1	No Gas	4.990	4.990	2.90	301449	0.00	5	
Mo	95	1	No Gas	4.982	4.982	0.49	59405	0.01	5	
Sn	118	1	No Gas	5.035	5.035	1.57	102732	0.00	5	
Sb	121	1	No Gas	5.213	5.213	2.57	141933	0.00	5	
Ba	137	1	No Gas	5.058	5.058	1.07	47885	0.01	5	
Tl	205	1	No Gas	4.972	4.972	1.15	263975	0.00	5	
Tl	203	1	No Gas	5.098	5.098	2.48	114229	0.00	5	
Pb	208	1	No Gas	5.061	5.061	0.43	372345	0.00	5	
U	238	1	No Gas	4.847	4.847	2.00	355969	0.00	5	
Ca	43	2	He	555.922	555.922	5.97	2244	24.78	500	
Sb	121	2	He	5.115	5.115	3.42	66594	0.01	5	
Ti	47	2	He	4.644	4.644	6.88	1944	0.24	5	
Cu	63	1	No Gas	5.229	5.229	1.76	134002	0.00	5	
Se	82	1	No Gas	4.612	4.612	5.88	2644	0.17	5	
Zr	90	1	No Gas	4.483	4.483	1.10	171753	0.00	5	
Zr	90	2	He	4.577	4.577	0.33	76902	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1278766	0.71	1318920	96.96	70	120	

Sample Report

Ge	72	2	He	1320213	0.34	1309648	100.81	70	120	
Ge	72	1	No Gas	4365053	0.98	4382507	99.60	70	120	
In	115	1	No Gas	4758272	0.78	4742062	100.34	70	120	
Bi	209	1	No Gas	3915078	0.97	3878294	100.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:24:48-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.099	-66.2	77106	1.5	0.5	
Be	9	1	No Gas	0.001	202.4	55	18.2	0.5	
V	51	2	He	-0.040	-17.5	3161	1.9	2.5	
Cr	52	2	He	-0.053	-78.7	13197	2.9	2.5	
Fe	56	2	He	2.205	0.2	44980	1.3	100	
Se	78	2	He	-0.096	-162.1	227	11.9	1	
As	75	2	He	0.004	522.0	398	10.6	2.5	
Ca	44	2	He	3.621	79.1	2440	7.4	100	
Na	23	2	He	5.376	13.6	152067	0.3	100	
Mg	24	2	He	1.048	10.7	1840	5.4	100	
K	39	2	He	-2.622	-78.9	156013	0.5	100	
Mn	55	2	He	0.070	15.2	1377	8.1	2.5	
Co	59	2	He	0.002	250.6	140	55.8	2.5	
Ni	60	2	He	0.074	34.0	920	13.9	2.5	
Cu	63	2	He	0.041	47.5	2344	10.7	1	
Zn	66	2	He	0.485	12.0	2894	6.4	2.5	
Al	27	2	He	1.667	19.6	3644	6.9	5	
B	11	1	No Gas	0.547	34.0	23024	2.9	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.775	9.2	135291	2.9	5	
Si	28	1	No Gas	6.806	4.8	1080426	0.3	10	
Ag	107	1	No Gas	-0.026	-4.6	1453	3.1	2.5	
Cd	111	1	No Gas	-0.002	-205.0	16	135.0	1	
Sr	88	1	No Gas	0.028	10.8	4898	3.9	2.5	
Mo	95	1	No Gas	0.012	25.4	317	12.0	2.5	
Sn	118	1	No Gas	0.081	27.5	6832	5.7	5	
Sb	121	1	No Gas	0.021	40.2	1373	16.7	2.5	
Ba	137	1	No Gas	0.188	8.2	2094	6.2	2.5	
Tl	205	1	No Gas	-0.005	-2.9	607	1.0	1	
Tl	203	1	No Gas	-0.003	-160.9	283	41.4	1	
Pb	208	1	No Gas	-0.009	-34.6	3637	6.4	2.5	
U	238	1	No Gas	-0.001	-43.0	580	6.0	2.5	
Ca	43	2	He	13.050	109.9	93	62.8	100	
Sb	121	2	He	0.019	37.4	640	13.6	2.5	
Ti	47	2	He	-0.110	-22.2	20	50.0	2.5	
Se	82	1	No Gas	-0.148	-124.5	700	10.8	1	
Zr	90	1	No Gas	0.047	3.7	3250	2.3	2.5	
Zr	90	2	He	0.031	4.6	2300	0.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1318585	0.14	1318920	99.97	70	120	
Ge	72	2	He	1333745	1.18	1309648	101.84	70	120	
Ge	72	1	No Gas	4363842	0.22	4382507	99.57	70	120	
In	115	1	No Gas	4731635	0.71	4742062	99.78	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3925283	0.75	3878294	101.21	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	023_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:27:12-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.789	2.234	1897863	1.33	100	99.8	90	110	
Be	9	1	No Gas	103.229	3.045	527779	2.33	100	103.2	90	110	
V	51	2	He	101.031	1.879	1082426	2.16	100	101.0	90	110	
Cr	52	2	He	102.140	1.161	1229449	1.39	100	102.1	90	110	
Fe	56	2	He	10205.548	0.733	117211645	0.68	10000	102.1	90	110	
Se	78	2	He	101.983	0.926	18659	1.20	100	102.0	90	110	
As	75	2	He	101.428	1.428	224256	1.46	100	101.4	90	110	
Ca	44	2	He	10240.364	1.606	690546	1.86	10000	102.4	90	110	
Na	23	2	He	10265.657	0.674	17634895	0.68	10000	102.7	90	110	
Mg	24	2	He	10301.883	1.407	10982232	1.54	10000	103.0	90	110	
K	39	2	He	10228.950	1.048	13078148	1.10	10000	102.3	90	110	
Mn	55	2	He	102.345	0.910	911842	1.02	100	102.3	90	110	
Co	59	2	He	102.566	1.264	1942856	1.41	100	102.6	90	110	
Ni	60	2	He	102.672	1.360	500413	1.48	100	102.7	90	110	
Cu	63	2	He	102.602	0.378	1352352	0.67	100	102.6	90	110	
Zn	66	2	He	102.408	1.242	270862	1.28	100	102.4	90	110	
Al	27	2	He	103.112	2.082	71649	2.18	100	103.1	90	110	
B	11	1	No Gas	499.015	2.878	1687590	2.06	500	99.8	90	110	
Al	27	1	No Gas	102.063	1.870	2565103	1.85	100	102.1	90	110	
Si	28	1	No Gas	510.627	2.611	6138355	2.27	500	102.1	90	110	
Ag	107	1	No Gas	101.855	1.249	3212144	1.97	100	101.9	90	110	
Cd	111	1	No Gas	100.256	2.074	614034	2.79	100	100.3	90	110	
Sr	88	1	No Gas	101.574	1.168	5917970	1.85	100	101.6	90	110	
Mo	95	1	No Gas	100.196	0.796	1160836	1.52	100	100.2	90	110	
Sn	118	1	No Gas	101.423	1.750	1917865	2.49	100	101.4	90	110	
Sb	121	1	No Gas	99.977	2.151	2669470	2.22	100	100.0	90	110	
Ba	137	1	No Gas	100.380	0.592	919888	0.87	100	100.4	90	110	
Tl	205	1	No Gas	100.746	2.805	5251795	2.10	100	100.7	90	110	
Tl	203	1	No Gas	100.108	2.091	2203106	1.46	100	100.1	90	110	
Pb	208	1	No Gas	100.567	2.375	7207220	1.64	100	100.6	90	110	
U	238	1	No Gas	99.051	1.950	7153414	1.50	100	99.1	90	110	
Ca	43	2	He	10114.582	1.086	39637	1.38	10000	101.1	90	110	
Sb	121	2	He	99.887	0.339	1277688	0.44	100	99.9	90	110	
Ti	47	2	He	103.009	2.124	41238	2.37	100	103.0	90	110	
Cu	63	1	No Gas	102.578	3.351	2525087	3.39	100	102.6	90	110	
Se	82	1	No Gas	100.371	3.690	41139	3.66	100	100.4	90	110	
Zr	90	1	No Gas	100.035	0.360	3703632	1.10	100	100.0	90	110	
Zr	90	2	He	98.900	0.844	1605583	0.99	100	98.9	90	1100	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1266115	0.99	1318920	96.00	70	120	
Ge	72	2	He	1304254	0.30	1309648	99.59	70	120	
Ge	72	1	No Gas	4303147	0.11	4382507	98.19	70	120	
In	115	1	No Gas	4636062	0.74	4742062	97.76	70	120	
Bi	209	1	No Gas	3856676	0.86	3878294	99.44	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	025ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:33:57-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.217	13.0	76397	1.8	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.033	3.4	208	3.7	0	ICSA Main CR1 Failed
V	51	2	He	0.294	7.0	6597	2.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.878	4.6	23801	0.6	0	ICSA Main CR1 Failed
Fe	56	2	He	98362.357	3.6	1120177237	1.9	0	
Se	78	2	He	-0.162	-112.6	208	15.1	0	ICSA Main CR1 Failed
As	75	2	He	0.406	4.9	1266	2.3	0	ICSA Main CR1 Failed
Ca	44	2	He	98515.378	3.7	6569593	2.0	0	
Na	23	2	He	100079.613	3.3	169288804	1.4	0	
Mg	24	2	He	99087.783	4.0	104742718	2.1	0	
K	39	2	He	100013.473	2.9	125465345	1.2	0	
Mn	55	2	He	1.687	2.4	15612	0.6	0	ICSA Main CR1 Failed
Co	59	2	He	1.022	5.6	19307	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	1.052	7.8	5618	6.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.731	3.9	11285	1.8	0	ICSA Main CR1 Failed
Zn	66	2	He	3.002	3.2	9370	1.0	0	ICSA Main CR1 Failed
Al	27	2	He	102227.051	3.8	68042219	2.1	0	
B	11	1	No Gas	2.793	16.2	28347	5.2	0	
Al	27	1	No Gas	102508.562	3.8	2411529404	2.9	0	
Si	28	1	No Gas	56.863	1.3	1522975	0.6	0	
Ag	107	1	No Gas	0.041	7.2	3350	2.6	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.693	9.2	4041	9.8	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.900	4.2	52556	3.0	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2111.609	3.0	23124100	2.0	0	
Sn	118	1	No Gas	0.363	2.6	11358	2.1	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.225	13.7	6598	11.3	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.583	5.6	5355	5.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.002	149.6	897	15.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.000	4747.4	323	12.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.912	1.6	64442	1.6	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.006	8.5	1033	3.4	0	ICSA Main CR1 Failed
Ca	43	2	He	95904.778	4.0	372347	2.2	0	
Sb	121	2	He	0.201	9.1	2924	6.1	0	ICSA Main CR1 Failed
Ti	47	2	He	2026.116	4.4	803115	2.6	0	
Se	82	1	No Gas	0.151	75.1	787	6.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1212042	1.19	1318920	91.90	70	120	
Ge	72	2	He	1294015	1.95	1309648	98.81	70	120	
Ge	72	1	No Gas	4175935	0.99	4382507	95.29	70	120	
In	115	1	No Gas	4383741	1.02	4742062	92.44	70	120	
Bi	209	1	No Gas	3570527	0.25	3878294	92.06	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	026ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:36:33-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.965	1.635	1798769	1.83	100	102.0	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	101.786	2.287	483140	2.52	100	101.8	80	120	
V	51	2	He	104.690	1.205	1112168	2.16	100	104.7	80	120	
Cr	52	2	He	103.604	1.124	1236519	2.07	100	103.6	80	120	
Fe	56	2	He	110521.691	1.913	1258718035	2.88	100	110521.7	80	120	ICSB Main CR1 Failed
Se	78	2	He	103.880	0.958	18843	1.82	100	103.9	80	120	
As	75	2	He	103.998	1.825	228034	2.78	100	104.0	80	120	
Ca	44	2	He	110219.832	1.109	7349944	2.06	100	110219.8	80	120	
Na	23	2	He	113465.689	1.452	191915004	2.42	100	113465.7	80	120	ICSB Main CR1 Failed
Mg	24	2	He	110917.280	1.030	117252015	1.88	100	110917.3	80	120	
K	39	2	He	112071.126	0.511	140554498	1.45	100	112071.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	103.886	1.392	917897	2.32	100	103.9	80	120	
Co	59	2	He	102.138	0.957	1918664	1.92	100	102.1	80	120	
Ni	60	2	He	99.609	0.936	481450	1.61	100	99.6	80	120	
Cu	63	2	He	100.599	1.059	1314984	2.02	100	100.6	80	120	
Zn	66	2	He	102.992	2.267	270159	3.22	100	103.0	80	120	
Al	27	2	He	103497.173	1.782	68891919	2.74	100	103497.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	520.786	1.321	1634265	1.56	100	520.8	80	120	
Al	27	1	No Gas	98627.093	2.868	2338339325	2.48	100	98627.1	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	575.770	1.244	6643489	0.71	100	575.8	80	120	
Ag	107	1	No Gas	103.841	1.777	3077406	1.24	100	103.8	80	120	
Cd	111	1	No Gas	102.823	1.630	591786	1.14	100	102.8	80	120	
Sr	88	1	No Gas	108.476	2.136	5939054	1.61	100	108.5	80	120	
Mo	95	1	No Gas	2214.001	2.161	24101767	1.63	100	2214.0	80	120	
Sn	118	1	No Gas	106.912	1.527	1899542	1.04	100	106.9	80	120	
Sb	121	1	No Gas	106.505	1.975	2780539	1.59	100	106.5	80	120	
Ba	137	1	No Gas	107.080	2.275	922174	1.74	100	107.1	80	120	
Tl	205	1	No Gas	93.943	1.539	4468094	1.59	100	93.9	80	120	
Tl	203	1	No Gas	93.593	1.453	1879187	1.58	100	93.6	80	120	
Pb	208	1	No Gas	106.100	1.352	6937084	1.40	100	106.1	80	120	
U	238	1	No Gas	105.685	2.074	6963224	2.08	100	105.7	80	120	
Ca	43	2	He	106922.265	1.269	415137	2.05	100	106922.3	80	120	
Sb	121	2	He	106.567	1.333	1351821	2.30	100	106.6	80	120	
Ti	47	2	He	2146.497	1.275	850919	2.17	100	2146.5	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	100.722	2.388	2424398	2.08	100	100.7	80	120	
Se	82	1	No Gas	103.562	3.309	41480	3.00	100	103.6	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1175227	0.30	1318920	89.11	70	120	
Ge	72	2	He	1293350	0.97	1309648	98.76	70	120	
Ge	72	1	No Gas	4207805	0.39	4382507	96.01	70	120	
In	115	1	No Gas	4357243	0.55	4742062	91.88	70	120	
Bi	209	1	No Gas	3518217	0.21	3878294	90.72	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	031_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:50:40-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.194	1.002	1843417	1.55	100	95.2	90	110	
Be	9	1	No Gas	97.453	0.811	506356	1.39	100	97.5	90	110	
V	51	2	He	100.983	0.564	1097790	1.61	100	101.0	90	110	
Cr	52	2	He	100.786	1.303	1231123	1.75	100	100.8	90	110	
Fe	56	2	He	10057.408	1.031	117209795	1.75	10000	100.6	90	110	
Se	78	2	He	99.333	1.554	18446	1.86	100	99.3	90	110	
As	75	2	He	100.683	0.978	225895	2.03	100	100.7	90	110	
Ca	44	2	He	10125.952	0.171	692865	1.24	10000	101.3	90	110	
Na	23	2	He	10230.838	0.400	17833953	1.42	10000	102.3	90	110	
Mg	24	2	He	10217.894	0.173	11052494	1.15	10000	102.2	90	110	
K	39	2	He	10186.260	0.117	13215350	1.09	10000	101.9	90	110	
Mn	55	2	He	100.727	1.124	910638	1.90	100	100.7	90	110	
Co	59	2	He	101.181	0.260	1944745	1.19	100	101.2	90	110	
Ni	60	2	He	100.522	0.928	497129	1.39	100	100.5	90	110	
Cu	63	2	He	100.792	1.077	1348116	2.15	100	100.8	90	110	
Zn	66	2	He	100.922	0.776	270884	1.74	100	100.9	90	110	
Al	27	2	He	100.492	2.886	70915	2.96	100	100.5	90	110	
B	11	1	No Gas	470.504	1.170	1618154	1.03	500	94.1	90	110	
Al	27	1	No Gas	99.048	1.115	2527998	1.45	100	99.0	90	110	
Si	28	1	No Gas	490.625	0.889	6022681	1.20	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.862	1.865	3309109	1.88	100	103.9	90	110	
Cd	111	1	No Gas	99.435	1.470	615248	1.41	100	99.4	90	110	
Sr	88	1	No Gas	102.315	1.533	6022512	1.48	100	102.3	90	110	
Mo	95	1	No Gas	101.871	1.033	1192418	1.00	100	101.9	90	110	
Sn	118	1	No Gas	101.785	2.070	1944453	2.07	100	101.8	90	110	
Sb	121	1	No Gas	101.073	2.228	2737595	2.16	100	101.1	90	110	
Ba	137	1	No Gas	102.093	2.280	945254	2.19	100	102.1	90	110	
Tl	205	1	No Gas	99.181	1.195	5252189	2.14	100	99.2	90	110	
Tl	203	1	No Gas	99.603	1.029	2226615	2.04	100	99.6	90	110	
Pb	208	1	No Gas	100.075	1.349	7285497	2.24	100	100.1	90	110	
U	238	1	No Gas	98.313	0.815	7211906	1.61	100	98.3	90	110	
Ca	43	2	He	9929.740	1.392	39480	0.81	10000	99.3	90	110	
Sb	121	2	He	100.162	0.827	1300057	1.72	100	100.2	90	110	
Ti	47	2	He	100.411	1.822	40790	2.45	100	100.4	90	110	
Cu	63	1	No Gas	101.589	2.680	2536726	2.47	100	101.6	90	110	
Se	82	1	No Gas	99.207	1.458	41260	1.98	100	99.2	90	110	
Zr	90	1	No Gas	100.109	0.769	3744684	0.75	100	100.1	90	110	
Zr	90	2	He	98.368	0.427	1620414	1.34	100	98.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1286478	0.75	1318920	97.54	70	120	
Ge	72	2	He	1323395	1.07	1309648	101.05	70	120	
Ge	72	1	No Gas	4365262	0.65	4382507	99.61	70	120	
In	115	1	No Gas	4684071	0.14	4742062	98.78	70	120	
Bi	209	1	No Gas	3916997	1.17	3878294	101.00	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	032_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:53:05-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.392	8.4	84068	0.4	0.5	
Be	9	1	No Gas	0.032	16.1	217	13.1	0.5	
V	51	2	He	-0.102	-5.9	2479	2.3	2.5	
Cr	52	2	He	-0.224	-11.8	11095	2.4	2.5	
Fe	56	2	He	2.028	4.6	42783	2.2	100	
Se	78	2	He	0.130	110.7	268	10.4	2	
As	75	2	He	0.034	42.6	464	7.2	2.5	
Ca	44	2	He	-0.244	-1809.7	2170	14.2	100	
Na	23	2	He	1.990	18.3	145776	0.1	100	
Mg	24	2	He	0.925	15.0	1703	9.4	100	
K	39	2	He	5.733	25.9	166367	0.6	100	
Mn	55	2	He	0.029	10.3	1003	2.5	2.5	
Co	59	2	He	0.007	29.6	240	16.7	2.5	
Ni	60	2	He	0.054	12.9	820	4.4	2.5	
Cu	63	2	He	0.041	22.2	2340	5.2	2	
Zn	66	2	He	0.183	40.6	2077	10.2	2.5	
Al	27	2	He	1.648	13.3	3621	4.2	5	
B	11	1	No Gas	2.510	12.3	29038	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.290	7.0	123971	1.1	5	
Si	28	1	No Gas	-3.006	-29.1	985089	0.2	10	
Ag	107	1	No Gas	0.540	21.7	19939	20.0	2.5	
Cd	111	1	No Gas	0.007	9.6	71	5.8	1	
Sr	88	1	No Gas	0.026	19.0	4881	5.9	2.5	
Mo	95	1	No Gas	0.136	28.7	1803	25.1	2.5	
Sn	118	1	No Gas	0.163	13.3	8526	4.2	5	
Sb	121	1	No Gas	0.461	15.6	13344	14.0	2.5	
Ba	137	1	No Gas	0.038	25.5	693	14.0	2.5	
Tl	205	1	No Gas	0.033	12.7	2674	8.3	1	
Tl	203	1	No Gas	0.031	30.6	1063	20.0	1	
Pb	208	1	No Gas	0.039	15.6	7241	5.1	2.5	
U	238	1	No Gas	0.010	3.8	1400	1.2	2.5	
Ca	43	2	He	10.673	53.0	83	27.7	100	
Sb	121	2	He	0.351	8.6	4964	7.9	2.5	
Ti	47	2	He	-0.044	-235.2	47	89.2	2.5	
Cu	63	1	No Gas	0.039	33.0	4638	6.3	2.5	
Se	82	1	No Gas	0.178	76.8	837	6.0	2	
Zr	90	1	No Gas	0.237	24.3	10538	20.3	2.5	
Zr	90	2	He	0.141	6.7	4114	3.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1282494	0.99	1318920	97.24	70	120	
Ge	72	2	He	1330110	0.55	1309648	101.56	70	120	
Ge	72	1	No Gas	4385645	0.78	4382507	100.07	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4794892	1.16	4742062	101.11	70	120	
Bi	209	1	No Gas	3976402	1.08	3878294	102.53	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01
Data File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:58:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.759	27.759	1.92	604809	0.00	2000	
Be	9	1	No Gas	0.013	0.013	62.37	120	0.01	2000	
V	51	2	He	0.251	0.251	15.43	6156	0.00	2000	
Cr	52	2	He	0.894	0.894	4.95	24011	0.00	2000	
Fe	56	2	He	83.965	83.965	1.69	975914	0.01	200000	
Se	78	2	He	0.070	0.070	113.65	250	0.03	2000	
As	75	2	He	0.207	0.207	10.30	832	0.02	2000	
Ca	44	2	He	21807.811	21807.811	1.56	1457745	1.50	200000	
Na	23	2	He	527285.420	527285.420	2.05	892385667	0.06	200000	>LDR
Mg	24	2	He	10486.569	10486.569	1.84	11099902	0.09	200000	
K	39	2	He	2066.890	2066.890	1.29	2747480	0.08	200000	
Mn	55	2	He	46.962	46.962	2.15	415827	0.01	2000	
Co	59	2	He	0.093	0.093	5.90	1850	0.01	2000	
Ni	60	2	He	0.362	0.362	12.23	2287	0.02	2000	
Cu	63	2	He	0.281	0.281	6.89	5415	0.01	2000	
Zn	66	2	He	3.855	3.855	0.30	11608	0.03	2000	
Al	27	2	He	6.543	6.543	4.05	6788	0.10	2000	
B	11	1	No Gas	24.364	24.364	2.38	105544	0.02	2000	
Al	27	1	No Gas	5.802	5.802	1.19	222585	0.00	2000	
Si	28	1	No Gas	10744.317	10744.317	0.70	105177052	0.01	2000	>LDR
Ag	107	1	No Gas	0.378	0.378	25.27	13424	0.00	2000	
Cd	111	1	No Gas	0.004	0.004	251.68	48	0.01	2000	
Sr	88	1	No Gas	419.305	419.305	1.21	23128714	0.00	2000	
Mo	95	1	No Gas	0.086	0.086	14.33	1107	0.01	2000	
Sn	118	1	No Gas	0.558	0.558	1.27	14862	0.00	2000	
Sb	121	1	No Gas	0.258	0.258	3.62	7392	0.00	2000	
Ba	137	1	No Gas	217.363	217.363	1.23	1886344	0.01	2000	
Tl	205	1	No Gas	0.048	0.048	44.62	3010	0.00	2000	
Tl	203	1	No Gas	0.052	0.052	48.60	1320	0.00	2000	
Pb	208	1	No Gas	0.028	0.028	15.38	5557	0.00	2000	
U	238	1	No Gas	0.007	0.007	19.69	1010	0.00	2000	
Ca	43	2	He	21969.053	21969.053	1.26	85438	25.71	200000	
Sb	121	2	He	0.247	0.247	7.80	3514	0.01	2000	
Ti	47	2	He	1.295	1.295	3.84	577	0.22	2000	
Cu	63	1	No Gas	2.491	2.491	1.44	62435	0.00	2000	
Ca	44	1	No Gas	20776.003	20776.003	0.61	17368244	0.12	200000	
Zn	66	1	No Gas	3.834	3.834	2.03	30407	0.01	2000	
Se	82	1	No Gas	0.297	0.297	100.42	837	0.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1314378	2.30	1318920	99.66	70	120	
Ge	72	2	He	1295148	0.96	1309648	98.89	70	120	
Ge	72	1	No Gas	4145403	0.85	4382507	94.59	70	120	
In	115	1	No Gas	4391472	0.88	4742062	92.61	70	120	
Bi	209	1	No Gas	3427586	0.45	3878294	88.38	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01SD
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:00:44-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.543	6.543	0.74	210938	0.00	2000	
Be	9	1	No Gas	0.012	0.012	16.76	117	0.01	2000	
V	51	2	He	0.129	0.129	4.36	5085	0.00	2000	
Cr	52	2	He	-0.152	-0.152	-18.89	12189	0.00	2000	
Fe	56	2	He	17.530	17.530	2.54	228390	0.01	200000	
Se	78	2	He	0.001	0.001	32913.45	249	0.00	2000	
As	75	2	He	0.061	0.061	21.90	536	0.01	2000	
Ca	44	2	He	4236.155	4236.155	2.74	297881	1.42	200000	
Na	23	2	He	104682.275	104682.275	1.87	185381624	0.06	200000	
Mg	24	2	He	2100.049	2100.049	1.84	2325029	0.09	200000	
K	39	2	He	405.363	405.363	3.09	693549	0.06	200000	
Mn	55	2	He	9.577	9.577	3.42	89267	0.01	2000	
Co	59	2	He	0.018	0.018	3.65	463	0.00	2000	
Ni	60	2	He	0.048	0.048	21.49	807	0.01	2000	
Cu	63	2	He	0.095	0.095	2.65	3124	0.00	2000	
Zn	66	2	He	0.912	0.912	7.27	4104	0.02	2000	
Al	27	2	He	0.475	0.475	109.86	2867	0.02	2000	
B	11	1	No Gas	4.094	4.094	3.85	36681	0.01	2000	
Al	27	1	No Gas	0.384	0.384	11.36	103426	0.00	2000	
Si	28	1	No Gas	2220.287	2220.287	1.76	24231578	0.01	2000	>LDR
Ag	107	1	No Gas	0.149	0.149	33.84	6992	0.00	2000	
Cd	111	1	No Gas	0.004	0.004	87.48	52	0.01	2000	
Sr	88	1	No Gas	87.513	87.513	2.88	5138552	0.00	2000	
Mo	95	1	No Gas	0.033	0.033	32.76	563	0.01	2000	
Sn	118	1	No Gas	0.032	0.032	22.71	5805	0.00	2000	
Sb	121	1	No Gas	0.091	0.091	3.84	3351	0.00	2000	
Ba	137	1	No Gas	43.930	43.930	2.46	405899	0.01	2000	
Tl	205	1	No Gas	0.004	0.004	46.30	1040	0.00	2000	
Tl	203	1	No Gas	0.005	0.005	69.27	443	0.00	2000	
Pb	208	1	No Gas	0.003	0.003	161.03	4240	0.00	2000	
U	238	1	No Gas	0.000	0.000	342.81	650	0.00	2000	
Ca	43	2	He	4370.931	4370.931	4.92	17805	24.55	200000	
Sb	121	2	He	0.096	0.096	7.20	1677	0.01	2000	
Ti	47	2	He	0.364	0.364	28.31	217	0.17	2000	
Cu	63	1	No Gas	0.587	0.587	2.05	18690	0.00	2000	
Ca	44	1	No Gas	4299.634	4299.634	1.48	3969932	0.11	200000	
Zn	66	1	No Gas	0.943	0.943	3.68	11141	0.01	2000	
Se	82	1	No Gas	-0.010	-0.010	-2246.69	773	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1367303	1.62	1318920	103.67	70	120	
Ge	72	2	He	1354290	0.65	1309648	103.41	70	120	
Ge	72	1	No Gas	4464808	0.64	4382507	101.88	70	120	
In	115	1	No Gas	4672603	0.61	4742062	98.54	70	120	
Bi	209	1	No Gas	3644714	1.41	3878294	93.98	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01MS
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:03:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.441	27.441	1.46	595473	0.00	2000	
Be	9	1	No Gas	46.699	46.699	1.76	246477	0.02	2000	
V	51	2	He	49.728	49.728	1.14	525617	0.01	2000	
Cr	52	2	He	49.623	49.623	1.25	594203	0.01	2000	
Fe	56	2	He	4931.866	4931.866	1.95	55711154	0.01	200000	
Se	78	2	He	48.552	48.552	2.45	8859	0.55	2000	
As	75	2	He	50.560	50.560	1.52	110116	0.05	2000	
Ca	44	2	He	26759.121	26759.121	1.84	1771006	1.51	200000	
Na	23	2	He	532992.967	532992.967	1.03	893337213	0.06	200000	>LDR
Mg	24	2	He	15382.022	15382.022	1.39	16124611	0.10	200000	
K	39	2	He	7026.056	7026.056	1.37	8881715	0.08	200000	
Mn	55	2	He	96.865	96.865	2.00	848723	0.01	2000	
Co	59	2	He	48.975	48.975	1.82	912322	0.01	2000	
Ni	60	2	He	48.225	48.225	1.30	231404	0.02	2000	
Cu	63	2	He	47.754	47.754	1.54	619855	0.01	2000	
Zn	66	2	He	53.838	53.838	2.46	140764	0.04	2000	
Al	27	2	He	117.260	117.260	2.23	79796	0.15	2000	
B	11	1	No Gas	464.066	464.066	0.19	1621587	0.03	2000	
Al	27	1	No Gas	115.373	115.373	1.53	2797754	0.00	2000	
Si	28	1	No Gas	11232.275	11232.275	1.75	110534708	0.01	2000	>LDR
Ag	107	1	No Gas	47.337	47.337	0.47	1416518	0.00	2000	
Cd	111	1	No Gas	47.612	47.612	0.52	276489	0.02	2000	
Sr	88	1	No Gas	517.329	517.329	1.13	28564702	0.00	2000	
Mo	95	1	No Gas	50.525	50.525	0.18	555097	0.01	2000	
Sn	118	1	No Gas	98.566	98.566	0.23	1767235	0.01	2000	
Sb	121	1	No Gas	48.692	48.692	1.03	1259965	0.00	2000	
Ba	137	1	No Gas	263.186	263.186	1.01	2286352	0.01	2000	
Tl	205	1	No Gas	44.080	44.080	1.13	2037769	0.00	2000	
Tl	203	1	No Gas	44.100	44.100	0.95	860607	0.01	2000	
Pb	208	1	No Gas	48.917	48.917	0.97	3110161	0.00	2000	
U	238	1	No Gas	0.004	0.004	47.74	860	0.00	2000	
Ca	43	2	He	26772.835	26772.835	0.61	103100	25.97	200000	
Sb	121	2	He	49.446	49.446	1.70	622140	0.01	2000	
Ti	47	2	He	152.312	152.312	2.68	59926	0.25	2000	
Cu	63	1	No Gas	51.065	51.065	0.93	1219556	0.00	2000	
Ca	44	1	No Gas	25619.823	25619.823	1.32	21512381	0.12	200000	
Zn	66	1	No Gas	53.198	53.198	1.77	375235	0.01	2000	
Se	82	1	No Gas	47.905	47.905	1.45	19404	0.25	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1306839	0.97	1318920	99.08	70	120	
Ge	72	2	He	1282466	0.87	1309648	97.92	70	120	
Ge	72	1	No Gas	4169134	0.91	4382507	95.13	70	120	
In	115	1	No Gas	4395824	1.11	4742062	92.70	70	120	
Bi	209	1	No Gas	3419253	1.78	3878294	88.16	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01MSD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:05:38-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.060	28.060	0.66	592307	0.00	2000	
Be	9	1	No Gas	46.234	46.234	0.26	238071	0.02	2000	
V	51	2	He	50.761	50.761	1.87	502061	0.01	2000	
Cr	52	2	He	50.573	50.573	2.63	566463	0.01	2000	
Fe	56	2	He	5025.921	5025.921	2.12	53128511	0.01	200000	
Se	78	2	He	49.011	49.011	2.49	8366	0.59	2000	
As	75	2	He	50.880	50.880	2.21	103696	0.05	2000	
Ca	44	2	He	27184.109	27184.109	0.76	1683683	1.61	200000	
Na	23	2	He	542922.042	542922.042	1.64	851625801	0.06	200000	>LDR
Mg	24	2	He	15725.270	15725.270	1.28	15426663	0.10	200000	
K	39	2	He	7147.321	7147.321	1.75	8452642	0.08	200000	
Mn	55	2	He	97.380	97.380	2.73	798430	0.01	2000	
Co	59	2	He	49.142	49.142	2.19	856672	0.01	2000	
Ni	60	2	He	48.750	48.750	2.17	218912	0.02	2000	
Cu	63	2	He	48.482	48.482	2.02	588906	0.01	2000	
Zn	66	2	He	54.951	54.951	2.09	134414	0.04	2000	
Al	27	2	He	120.214	120.214	2.03	76498	0.16	2000	
B	11	1	No Gas	465.528	465.528	0.97	1586753	0.03	2000	
Al	27	1	No Gas	117.539	117.539	0.49	2705459	0.00	2000	
Si	28	1	No Gas	11379.142	11379.142	0.68	106338635	0.01	2000	>LDR
Ag	107	1	No Gas	47.479	47.479	0.77	1345800	0.00	2000	
Cd	111	1	No Gas	48.360	48.360	0.23	266031	0.02	2000	
Sr	88	1	No Gas	526.703	526.703	1.39	27545845	0.00	2000	
Mo	95	1	No Gas	50.671	50.671	0.31	527364	0.01	2000	
Sn	118	1	No Gas	98.977	98.977	0.60	1681066	0.01	2000	
Sb	121	1	No Gas	49.468	49.468	0.46	1215697	0.00	2000	
Ba	137	1	No Gas	269.380	269.380	1.58	2216483	0.01	2000	
Tl	205	1	No Gas	45.763	45.763	0.30	1980415	0.00	2000	
Tl	203	1	No Gas	45.954	45.954	0.35	839484	0.01	2000	
Pb	208	1	No Gas	49.891	49.891	0.10	2969244	0.00	2000	
U	238	1	No Gas	0.005	0.005	12.49	837	0.00	2000	
Ca	43	2	He	27359.578	27359.578	0.83	98604	27.75	200000	
Sb	121	2	He	50.086	50.086	2.78	589727	0.01	2000	
Ti	47	2	He	150.938	150.938	0.30	55581	0.27	2000	
Cu	63	1	No Gas	51.439	51.439	0.79	1166702	0.00	2000	
Ca	44	1	No Gas	26206.025	26206.025	0.23	20896770	0.13	200000	
Zn	66	1	No Gas	53.786	53.786	0.62	360284	0.01	2000	
Se	82	1	No Gas	48.761	48.761	1.27	18743	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1274838	0.65	1318920	96.66	70	120	
Ge	72	2	He	1200309	0.46	1309648	91.65	70	120	
Ge	72	1	No Gas	3959460	0.49	4382507	90.35	70	120	
In	115	1	No Gas	4164193	1.74	4742062	87.81	70	120	
Bi	209	1	No Gas	3200487	1.07	3878294	82.52	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:08:06-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.251	27.251	0.63	581863	0.00	2000	
Be	9	1	No Gas	88.766	88.766	0.39	460554	0.02	2000	
V	51	2	He	98.376	98.376	0.82	971552	0.01	2000	
Cr	52	2	He	96.177	96.177	1.13	1067780	0.01	2000	
Fe	56	2	He	9686.609	9686.609	1.27	102545098	0.01	200000	
Se	78	2	He	95.338	95.338	2.35	16091	0.59	2000	
As	75	2	He	97.437	97.437	1.59	198580	0.05	2000	
Ca	44	2	He	31033.452	31033.452	1.42	1924828	1.61	200000	
Na	23	2	He	535577.187	535577.187	1.52	841437321	0.06	200000	>LDR
Mg	24	2	He	19969.901	19969.901	1.80	19621103	0.10	200000	
K	39	2	He	11763.785	11763.785	1.51	13841476	0.08	200000	
Mn	55	2	He	143.300	143.300	1.56	1176510	0.01	2000	
Co	59	2	He	94.906	94.906	2.13	1656950	0.01	2000	
Ni	60	2	He	92.518	92.518	1.86	415661	0.02	2000	
Cu	63	2	He	93.649	93.649	2.33	1137800	0.01	2000	
Zn	66	2	He	98.085	98.085	1.10	239183	0.04	2000	
Al	27	2	He	103.286	103.286	3.01	66142	0.16	2000	
B	11	1	No Gas	26.535	26.535	0.56	110546	0.02	2000	
Al	27	1	No Gas	101.673	101.673	0.90	2336760	0.00	2000	
Si	28	1	No Gas	10774.086	10774.086	1.43	100099745	0.01	2000	>LDR
Ag	107	1	No Gas	91.468	91.468	0.93	2598336	0.00	2000	
Cd	111	1	No Gas	91.978	91.978	1.13	507384	0.02	2000	
Sr	88	1	No Gas	410.244	410.244	0.99	21519537	0.00	2000	
Mo	95	1	No Gas	96.717	96.717	1.23	1009253	0.01	2000	
Sn	118	1	No Gas	0.538	0.538	5.72	13794	0.00	2000	
Sb	121	1	No Gas	96.255	96.255	1.80	2349875	0.00	2000	
Ba	137	1	No Gas	303.778	303.778	1.82	2506849	0.01	2000	
Tl	205	1	No Gas	89.301	89.301	2.08	3909712	0.00	2000	
Tl	203	1	No Gas	89.584	89.584	2.15	1655623	0.01	2000	
Pb	208	1	No Gas	95.188	95.188	1.68	5729352	0.00	2000	
U	238	1	No Gas	0.007	0.007	14.80	947	0.00	2000	
Ca	43	2	He	30644.184	30644.184	1.76	110611	27.70	200000	
Sb	121	2	He	99.182	99.182	1.89	1169330	0.01	2000	
Ti	47	2	He	98.041	98.041	2.10	36177	0.27	2000	
Cu	63	1	No Gas	96.889	96.889	0.82	2180953	0.00	2000	
Ca	44	1	No Gas	30101.617	30101.617	1.09	23835760	0.13	200000	
Zn	66	1	No Gas	96.502	96.502	1.19	639495	0.02	2000	
Se	82	1	No Gas	94.374	94.374	1.65	35410	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1284662	0.77	1318920	97.40	70	120	
Ge	72	2	He	1202237	0.72	1309648	91.80	70	120	
Ge	72	1	No Gas	3934753	0.73	4382507	89.78	70	120	
In	115	1	No Gas	4176046	0.66	4742062	88.06	70	120	
Bi	209	1	No Gas	3238821	1.01	3878294	83.51	70	120	

Sample Report

Sample Table

Sample Name	LCS-212449
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:18:50-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	78.214	78.214	1.27	1490411	0.01	2000	
Be	9	1	No Gas	46.523	46.523	0.60	235745	0.02	2000	
V	51	2	He	47.589	47.589	2.58	475240	0.01	2000	
Cr	52	2	He	47.989	47.989	2.27	543167	0.01	2000	
Fe	56	2	He	4809.396	4809.396	3.40	51306828	0.01	200000	
Se	78	2	He	47.423	47.423	0.22	8178	0.58	2000	
As	75	2	He	47.514	47.514	2.20	97758	0.05	2000	
Ca	44	2	He	4892.026	4892.026	2.24	307420	1.59	200000	
Na	23	2	He	4966.761	4966.761	3.04	7990951	0.06	200000	
Mg	24	2	He	4893.684	4893.684	3.40	4845179	0.10	200000	
K	39	2	He	4872.951	4872.951	2.31	5862342	0.08	200000	
Mn	55	2	He	49.317	49.317	2.87	408422	0.01	2000	
Co	59	2	He	48.208	48.208	3.52	848096	0.01	2000	
Ni	60	2	He	48.368	48.368	2.99	219199	0.02	2000	
Cu	63	2	He	49.436	49.436	2.49	606021	0.01	2000	
Zn	66	2	He	50.937	50.937	2.67	125853	0.04	2000	
Al	27	2	He	101.809	101.809	2.10	65733	0.15	2000	
B	11	1	No Gas	427.990	427.990	0.47	1437239	0.03	2000	
Al	27	1	No Gas	101.472	101.472	2.94	2367429	0.00	2000	
Si	28	1	No Gas	632.727	632.727	3.48	6837987	0.01	2000	
Ag	107	1	No Gas	47.227	47.227	1.75	1369807	0.00	2000	
Cd	111	1	No Gas	45.527	45.527	1.60	256251	0.02	2000	
Sr	88	1	No Gas	91.887	91.887	1.21	4919902	0.00	2000	
Mo	95	1	No Gas	47.158	47.158	0.31	502176	0.01	2000	
Sn	118	1	No Gas	91.367	91.367	1.38	1588062	0.01	2000	
Sb	121	1	No Gas	47.766	47.766	1.93	1184196	0.00	2000	
Ba	137	1	No Gas	47.274	47.274	1.57	398281	0.01	2000	
Tl	205	1	No Gas	40.683	40.683	2.48	1883125	0.00	2000	
Tl	203	1	No Gas	40.529	40.529	1.60	791993	0.01	2000	
Pb	208	1	No Gas	47.240	47.240	1.86	3007495	0.00	2000	
U	238	1	No Gas	83.659	83.659	2.52	5363162	0.00	2000	
Ca	43	2	He	5055.526	5055.526	1.90	18419	27.45	200000	
Sb	121	2	He	48.803	48.803	3.05	579946	0.01	2000	
Ti	47	2	He	140.743	140.743	3.65	52302	0.27	2000	
Cu	63	1	No Gas	49.688	49.688	2.12	1137031	0.00	2000	
Ca	44	1	No Gas	4859.330	4859.330	2.86	3998784	0.12	200000	
Zn	66	1	No Gas	49.610	49.610	2.19	335511	0.01	2000	
Se	82	1	No Gas	46.434	46.434	3.54	18039	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1254539	0.43	1318920	95.12	70	120	
Ge	72	2	He	1211542	1.08	1309648	92.51	70	120	
Ge	72	1	No Gas	3994982	1.51	4382507	91.16	70	120	

Sample Report

In	115	1	No Gas	4260695	0.63	4742062	89.85	70	120	
Bi	209	1	No Gas	3423919	1.31	3878294	88.28	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:28:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.571	1.400	1753645	2.26	100	97.6	90	110	
Be	9	1	No Gas	100.010	1.415	482781	2.26	100	100.0	90	110	
V	51	2	He	99.594	3.266	988466	3.09	100	99.6	90	110	
Cr	52	2	He	99.915	2.347	1114380	2.18	100	99.9	90	110	
Fe	56	2	He	9944.241	2.418	105802182	2.24	10000	99.4	90	110	
Se	78	2	He	98.083	2.257	16632	2.09	100	98.1	90	110	
As	75	2	He	99.758	2.145	204330	1.97	100	99.8	90	110	
Ca	44	2	He	9908.110	3.720	618984	3.53	10000	99.1	90	110	
Na	23	2	He	10164.628	1.251	16177251	1.12	10000	101.6	90	110	
Mg	24	2	He	10108.781	1.721	9982894	1.54	10000	101.1	90	110	
K	39	2	He	10032.061	2.143	11884809	1.94	10000	100.3	90	110	
Mn	55	2	He	99.389	2.102	820327	1.97	100	99.4	90	110	
Co	59	2	He	99.841	2.009	1751991	1.89	100	99.8	90	110	
Ni	60	2	He	100.172	2.558	452286	2.40	100	100.2	90	110	
Cu	63	2	He	99.426	2.659	1214039	2.49	100	99.4	90	110	
Zn	66	2	He	98.668	1.627	241810	1.44	100	98.7	90	110	
Al	27	2	He	101.859	2.421	65593	2.16	100	101.9	90	110	
B	11	1	No Gas	473.468	1.079	1512746	1.70	500	94.7	90	110	
Al	27	1	No Gas	100.799	3.055	2357612	2.76	100	100.8	90	110	
Si	28	1	No Gas	511.681	1.815	5720026	1.39	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.505	1.801	2953452	1.39	100	101.5	90	110	
Cd	111	1	No Gas	98.325	1.445	555594	0.85	100	98.3	90	110	
Sr	88	1	No Gas	101.527	2.810	5457431	2.33	100	101.5	90	110	
Mo	95	1	No Gas	100.879	1.860	1078332	1.27	100	100.9	90	110	
Sn	118	1	No Gas	99.974	2.159	1744216	1.72	100	100.0	90	110	
Sb	121	1	No Gas	98.857	1.504	2455415	1.28	100	98.9	90	110	
Ba	137	1	No Gas	100.639	2.524	850924	1.91	100	100.6	90	110	
Tl	205	1	No Gas	100.859	2.280	4783545	2.28	100	100.9	90	110	
Tl	203	1	No Gas	100.214	1.825	2006380	1.43	100	100.2	90	110	
Pb	208	1	No Gas	100.144	1.395	6529764	1.68	100	100.1	90	110	
U	238	1	No Gas	97.766	2.311	6423971	2.77	100	97.8	90	110	
Ca	43	2	He	10002.537	2.667	36311	2.49	10000	100.0	90	110	
Sb	121	2	He	97.872	1.290	1159755	1.12	100	97.9	90	110	
Ti	47	2	He	98.558	4.109	36552	3.93	100	98.6	90	110	
Cu	63	1	No Gas	101.670	2.391	2328173	2.23	100	101.7	90	110	
Se	82	1	No Gas	100.466	1.435	38304	1.11	100	100.5	90	110	
Zr	90	1	No Gas	100.147	2.275	3421005	1.86	100	100.1	90	110	
Zr	90	2	He	96.444	1.674	1450474	1.51	100	96.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1195180	1.05	1318920	90.62	70	120	
Ge	72	2	He	1208256	0.18	1309648	92.26	70	120	
Ge	72	1	No Gas	4003093	0.46	4382507	91.34	70	120	
In	115	1	No Gas	4277910	0.67	4742062	90.21	70	120	
Bi	209	1	No Gas	3508526	1.13	3878294	90.47	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:30:33-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.190	37.3	77543	1.3	0.5	
Be	9	1	No Gas	0.009	23.3	93	11.2	0.5	
V	51	2	He	0.101	9.7	4393	2.5	2.5	
Cr	52	2	He	-0.179	-5.8	10914	0.9	2.5	
Fe	56	2	He	1.280	8.0	31901	3.3	100	
Se	78	2	He	0.031	328.6	234	7.5	2	
As	75	2	He	0.037	32.3	441	5.5	2.5	
Ca	44	2	He	-0.356	-832.3	2027	9.2	100	
Na	23	2	He	60.265	3.0	231651	1.3	100	
Mg	24	2	He	0.595	19.7	1260	9.7	100	
K	39	2	He	9.084	9.9	160043	0.8	100	
Mn	55	2	He	0.019	87.5	857	16.9	2.5	
Co	59	2	He	0.001	187.5	127	37.3	2.5	
Ni	60	2	He	0.034	26.9	673	6.0	2.5	
Cu	63	2	He	0.033	39.9	2094	7.7	2	
Zn	66	2	He	0.125	46.6	1800	8.0	2.5	
Al	27	2	He	1.606	26.9	3367	8.2	5	
B	11	1	No Gas	2.731	18.6	28754	6.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.515	11.2	120917	3.9	5	
Si	28	1	No Gas	6.774	25.7	1013046	0.4	10	
Ag	107	1	No Gas	-0.018	-20.0	1603	6.9	2.5	
Cd	111	1	No Gas	-0.001	-460.3	18	166.0	1	
Sr	88	1	No Gas	0.025	21.5	4444	6.9	2.5	
Mo	95	1	No Gas	0.070	7.7	943	6.0	2.5	
Sn	118	1	No Gas	0.038	37.7	5645	4.3	5	
Sb	121	1	No Gas	0.333	19.9	9213	18.6	2.5	
Ba	137	1	No Gas	0.036	19.5	630	9.9	2.5	
Tl	205	1	No Gas	0.012	19.9	1430	9.3	1	
Tl	203	1	No Gas	0.013	57.3	603	26.2	1	
Pb	208	1	No Gas	0.009	43.2	4607	6.2	2.5	
U	238	1	No Gas	0.006	45.9	1067	19.9	2.5	
Ca	43	2	He	12.089	56.0	83	30.2	100	
Sb	121	2	He	0.225	6.6	3114	6.1	2.5	
Ti	47	2	He	-0.097	-40.9	23	65.5	2.5	
Cu	63	1	No Gas	0.073	5.2	5121	0.7	2.5	
Se	82	1	No Gas	0.059	408.1	737	13.9	2	
Zr	90	1	No Gas	0.255	20.5	10408	17.3	2.5	
Zr	90	2	He	0.146	6.8	3941	3.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1238004	0.41	1318920	93.86	70	120	
Ge	72	2	He	1247136	0.23	1309648	95.23	70	120	
Ge	72	1	No Gas	4093584	1.51	4382507	93.41	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4447284	0.45	4742062	93.78	70	120	
Bi	209	1	No Gas	3655357	0.83	3878294	94.25	70	120	

Sample Report

Sample Table

Sample Name	LCS-212449
Data File Name	045SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:32:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	61.465	61.465	2.69	1128284	0.01	2000	
Be	9	1	No Gas	49.123	49.123	2.12	236546	0.02	2000	
V	51	2	He	49.693	49.693	2.80	499413	0.01	2000	
Cr	52	2	He	50.034	50.034	2.14	569548	0.01	2000	
Fe	56	2	He	4969.500	4969.500	2.29	53369744	0.01	200000	
Se	78	2	He	48.147	48.147	2.74	8353	0.58	2000	
As	75	2	He	49.802	49.802	2.60	103125	0.05	2000	
Ca	44	2	He	5002.020	5002.020	2.06	316388	1.58	200000	
Na	23	2	He	5073.741	5073.741	2.48	8214828	0.06	200000	
Mg	24	2	He	5069.093	5069.093	2.18	5052748	0.10	200000	
K	39	2	He	5028.357	5028.357	1.90	6085217	0.08	200000	
Mn	55	2	He	50.273	50.273	2.67	419075	0.01	2000	
Co	59	2	He	50.245	50.245	1.66	889918	0.01	2000	
Ni	60	2	He	50.354	50.354	2.47	229696	0.02	2000	
Cu	63	2	He	50.621	50.621	2.59	624596	0.01	2000	
Zn	66	2	He	50.977	50.977	3.17	126779	0.04	2000	
Al	27	2	He	73.559	73.559	3.91	48437	0.15	2000	
B	11	1	No Gas	325.477	325.477	2.83	1043230	0.03	2000	
Al	27	1	No Gas	71.044	71.044	4.18	1708178	0.00	2000	
Si	28	1	No Gas	402.847	402.847	4.50	4761061	0.01	2000	
Ag	107	1	No Gas	49.531	49.531	2.78	1474036	0.00	2000	
Cd	111	1	No Gas	48.193	48.193	2.35	278348	0.02	2000	
Sr	88	1	No Gas	68.239	68.239	3.00	3749957	0.00	2000	
Mo	95	1	No Gas	48.778	48.778	2.81	533002	0.01	2000	
Sn	118	1	No Gas	68.159	68.159	2.14	1217014	0.01	2000	
Sb	121	1	No Gas	49.004	49.004	1.92	1233296	0.00	2000	
Ba	137	1	No Gas	49.030	49.030	2.93	423867	0.01	2000	
Tl	205	1	No Gas	46.425	46.425	2.94	2243833	0.00	2000	
Tl	203	1	No Gas	45.374	45.374	3.24	925780	0.00	2000	
Pb	208	1	No Gas	49.255	49.255	2.79	3274084	0.00	2000	
U	238	1	No Gas	64.110	64.110	2.48	4291866	0.00	2000	
Ca	43	2	He	5118.220	5118.220	4.23	18766	27.27	200000	
Sb	121	2	He	49.569	49.569	2.07	592994	0.01	2000	
Ti	47	2	He	87.786	87.786	2.76	32863	0.27	2000	
Cu	63	1	No Gas	50.123	50.123	2.51	1164365	0.00	2000	
Ca	44	1	No Gas	4971.986	4971.986	3.14	4151121	0.12	200000	
Zn	66	1	No Gas	50.218	50.218	1.79	344740	0.01	2000	
Se	82	1	No Gas	48.122	48.122	4.85	18950	0.25	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1192224	0.31	1318920	90.39	70	120	
Ge	72	2	He	1219661	1.62	1309648	93.13	70	120	
Ge	72	1	No Gas	4055263	1.02	4382507	92.53	70	120	

Sample Report

In	115	1	No Gas	4372780	1.12	4742062	92.21	70	120	
Bi	209	1	No Gas	3574579	0.18	3878294	92.17	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01
Data File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:35:22-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.608	30.420	9.12	83726	0.00	2000	
Be	9	1	No Gas	0.004	0.223	116.17	68	0.01	2000	
V	51	2	He	0.009	0.473	40.53	3510	0.00	2000	
Cr	52	2	He	-0.385	-19.259	-2.71	8696	0.00	2000	
Fe	56	2	He	2.097	104.837	2.78	41496	0.01	200000	
Se	78	2	He	0.120	5.996	140.60	253	0.05	2000	
As	75	2	He	0.010	0.498	158.74	391	0.00	2000	
Ca	44	2	He	399.770	19988.520	3.20	28172	1.42	200000	
Na	23	2	He	10631.246	531562.320	1.70	17723653	0.06	200000	
Mg	24	2	He	210.929	10546.461	2.40	218938	0.10	200000	
K	39	2	He	45.450	2272.492	3.69	207063	0.02	200000	
Mn	55	2	He	0.976	48.796	1.37	9137	0.01	2000	
Co	59	2	He	0.004	0.210	68.98	180	0.00	2000	
Ni	60	2	He	-0.004	-0.193	-343.56	507	0.00	2000	
Cu	63	2	He	0.017	0.853	71.46	1920	0.00	2000	
Zn	66	2	He	0.190	9.516	68.10	1994	0.01	2000	
Al	27	2	He	-0.935	-46.744	-47.36	1763	-0.05	2000	
B	11	1	No Gas	1.932	96.597	16.95	25742	0.01	2000	
Al	27	1	No Gas	-1.331	-66.557	-1.93	56286	0.00	2000	
Si	28	1	No Gas	224.561	11228.048	2.82	3156213	0.01	2000	
Ag	107	1	No Gas	-0.038	-1.896	-3.04	1013	0.00	2000	
Cd	111	1	No Gas	-0.005	-0.233	-76.98	-2	0.19	2000	
Sr	88	1	No Gas	8.456	422.818	2.60	477920	0.00	2000	
Mo	95	1	No Gas	0.038	1.896	26.90	590	0.01	2000	
Sn	118	1	No Gas	-0.002	-0.113	-672.02	4938	0.00	2000	
Sb	121	1	No Gas	0.157	7.845	11.44	4828	0.00	2000	
Ba	137	1	No Gas	4.432	221.592	2.39	39466	0.01	2000	
Tl	205	1	No Gas	0.038	1.893	57.20	2714	0.00	2000	
Tl	203	1	No Gas	0.046	2.316	55.52	1307	0.00	2000	
Pb	208	1	No Gas	-0.010	-0.507	-25.72	3354	0.00	2000	
U	238	1	No Gas	0.004	0.213	58.95	920	0.00	2000	
Ca	43	2	He	411.959	20597.963	8.26	1603	25.69	200000	
Sb	121	2	He	0.118	5.920	9.31	1840	0.01	2000	
Ti	47	2	He	-0.081	-4.067	-62.55	30	-0.27	2000	
Cu	63	1	No Gas	0.081	4.034	3.26	5391	0.00	2000	
Ca	44	1	No Gas	411.130	20556.476	2.83	459058	0.09	200000	
Zn	66	1	No Gas	0.258	12.915	11.79	5618	0.00	2000	
Se	82	1	No Gas	-0.077	-3.844	-412.75	697	-0.01	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1219155	0.43	1318920	92.44	70	120	
Ge	72	2	He	1266084	0.87	1309648	96.67	70	120	
Ge	72	1	No Gas	4169042	0.78	4382507	95.13	70	120	

Sample Report

In	115	1	No Gas	4471224	0.58	4742062	94.29	70	120	
Bi	209	1	No Gas	3674501	1.62	3878294	94.75	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01SD
Data File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:37:46-05:00
Sample Type	Sample
Dilution	250
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.093	23.197	2.79	74301	0.00	2000	
Be	9	1	No Gas	-0.001	-0.139	-283.41	43	0.00	2000	
V	51	2	He	0.018	4.625	48.12	3583	0.00	2000	
Cr	52	2	He	-0.388	-97.118	-5.10	8606	0.00	2000	
Fe	56	2	He	0.415	103.662	9.67	22609	0.00	200000	
Se	78	2	He	0.126	31.487	123.50	253	0.05	2000	
As	75	2	He	0.003	0.697	196.20	373	0.00	2000	
Ca	44	2	He	75.286	18821.430	4.60	6952	1.08	200000	
Na	23	2	He	2219.324	554830.937	1.58	3784258	0.06	200000	
Mg	24	2	He	43.877	10969.330	0.85	45791	0.10	200000	
K	39	2	He	14.066	3516.550	6.32	167577	0.01	200000	
Mn	55	2	He	0.202	50.404	4.43	2430	0.01	2000	
Co	59	2	He	-0.001	-0.217	-191.48	87	0.00	2000	
Ni	60	2	He	-0.009	-2.246	-146.92	480	0.00	2000	
Cu	63	2	He	0.018	4.507	23.51	1920	0.00	2000	
Zn	66	2	He	0.098	24.383	64.35	1747	0.01	2000	
Al	27	2	He	-1.294	-323.409	-17.95	1520	-0.09	2000	
B	11	1	No Gas	-0.282	-70.500	-40.40	18529	0.00	2000	
Al	27	1	No Gas	-1.435	-358.870	-1.98	53593	0.00	2000	
Si	28	1	No Gas	51.001	12750.236	4.91	1456722	0.00	2000	
Ag	107	1	No Gas	-0.038	-9.468	-2.56	1017	0.00	2000	
Cd	111	1	No Gas	-0.002	-0.381	-424.19	16	-0.01	2000	
Sr	88	1	No Gas	1.708	426.901	1.47	99186	0.00	2000	
Mo	95	1	No Gas	0.014	3.560	24.02	327	0.00	2000	
Sn	118	1	No Gas	-0.057	-14.296	-18.85	3947	0.00	2000	
Sb	121	1	No Gas	0.057	14.212	9.47	2230	0.00	2000	
Ba	137	1	No Gas	0.921	230.320	3.12	8473	0.01	2000	
Tl	205	1	No Gas	-0.001	-0.231	-126.93	787	0.00	2000	
Tl	203	1	No Gas	0.001	0.266	265.16	357	0.00	2000	
Pb	208	1	No Gas	-0.017	-4.344	-22.11	2880	0.00	2000	
U	238	1	No Gas	0.000	-0.107	-64.89	600	0.00	2000	
Ca	43	2	He	63.948	15987.075	8.36	280	22.84	200000	
Sb	121	2	He	0.058	14.492	19.08	1083	0.01	2000	
Ti	47	2	He	-0.124	-30.957	-24.20	13	-0.93	2000	
Cu	63	1	No Gas	0.038	9.449	16.44	4351	0.00	2000	
Ca	44	1	No Gas	57.439	14359.739	3.53	162947	0.04	200000	
Zn	66	1	No Gas	0.089	22.282	41.38	4417	0.00	2000	
Se	82	1	No Gas	-0.016	-4.119	-1038.10	717	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1213252	0.24	1318920	91.99	70	120	
Ge	72	2	He	1258517	0.21	1309648	96.10	70	120	
Ge	72	1	No Gas	4150335	0.31	4382507	94.70	70	120	

Sample Report

In	115	1	No Gas	4480652	0.76	4742062	94.49	70	120	
Bi	209	1	No Gas	3699097	0.30	3878294	95.38	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01PDS
Data File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:40:10-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.671	33.534	10.60	79588	0.00	2000	
Be	9	1	No Gas	106.940	5347.020	6.58	493323	0.02	2000	
V	51	2	He	101.371	5068.552	2.89	1031257	0.01	2000	
Cr	52	2	He	100.185	5009.271	1.88	1145435	0.01	2000	
Fe	56	2	He	9939.803	496990.128	2.27	108416648	0.01	200000	
Se	78	2	He	100.701	5035.058	0.60	17501	0.58	2000	
As	75	2	He	100.759	5037.945	2.07	211564	0.05	2000	
Ca	44	2	He	10289.796	514489.809	3.09	658847	1.56	200000	
Na	23	2	He	20729.753	1036487.649	2.20	33682474	0.06	200000	
Mg	24	2	He	10312.812	515640.623	2.40	10440017	0.10	200000	
K	39	2	He	10190.335	509516.755	2.91	12372429	0.08	200000	
Mn	55	2	He	101.296	5064.788	2.23	857071	0.01	2000	
Co	59	2	He	101.004	5050.182	3.59	1816694	0.01	2000	
Ni	60	2	He	101.663	5083.145	3.24	470493	0.02	2000	
Cu	63	2	He	101.290	5064.522	3.53	1267718	0.01	2000	
Zn	66	2	He	101.965	5098.270	1.90	256111	0.04	2000	
Al	27	2	He	98.404	4920.225	1.84	65043	0.15	2000	
B	11	1	No Gas	-0.028	-1.416	-1197.34	18213	0.00	2000	
Al	27	1	No Gas	104.858	5242.891	9.06	2394387	0.00	2000	
Si	28	1	No Gas	247.253	12362.646	10.04	3172787	0.01	2000	
Ag	107	1	No Gas	106.231	5311.563	9.89	3015737	0.00	2000	
Cd	111	1	No Gas	107.631	5381.560	9.73	593458	0.02	2000	
Sr	88	1	No Gas	8.953	447.668	9.73	472251	0.00	2000	
Mo	95	1	No Gas	105.850	5292.520	10.09	1103847	0.01	2000	
Sn	118	1	No Gas	0.008	0.409	330.71	4805	0.00	2000	
Sb	121	1	No Gas	104.351	5217.538	8.12	2534566	0.00	2000	
Ba	137	1	No Gas	112.139	5606.953	9.30	925408	0.01	2000	
Tl	205	1	No Gas	106.648	5332.393	8.81	4915481	0.00	2000	
Tl	203	1	No Gas	106.278	5313.914	8.45	2068005	0.01	2000	
Pb	208	1	No Gas	106.341	5317.065	8.83	6737222	0.00	2000	
U	238	1	No Gas	0.002	0.078	34.85	683	0.00	2000	
Ca	43	2	He	10104.377	505218.847	4.65	37594	26.88	200000	
Sb	121	2	He	97.226	4861.323	2.48	1181006	0.01	2000	
Ti	47	2	He	100.183	5009.156	3.85	38089	0.26	2000	
Cu	63	1	No Gas	108.033	5401.639	8.30	2418773	0.00	2000	
Ca	44	1	No Gas	11185.188	559259.379	7.89	8881376	0.13	200000	
Zn	66	1	No Gas	107.489	5374.433	8.13	708264	0.02	2000	
Se	82	1	No Gas	106.269	5313.469	9.46	39562	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1144401	4.59	1318920	86.77	70	120	
Ge	72	2	He	1238705	1.02	1309648	94.58	70	120	
Ge	72	1	No Gas	3928004	6.39	4382507	89.63	70	120	

Sample Report

In	115	1	No Gas	4194943	7.79	4742062	88.46	70	120	
Bi	209	1	No Gas	3423975	7.44	3878294	88.29	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	051_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:50:26-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.558	3.125	1668799	3.19	100	97.6	90	110	
Be	9	1	No Gas	101.672	2.701	467116	2.89	100	101.7	90	110	
V	51	2	He	99.371	0.181	993141	1.12	100	99.4	90	110	
Cr	52	2	He	100.048	0.757	1123623	1.40	100	100.0	90	110	
Fe	56	2	He	9964.530	0.755	106764415	1.93	10000	99.6	90	110	
Se	78	2	He	96.621	1.382	16503	2.48	100	96.6	90	110	
As	75	2	He	99.922	0.752	206107	1.98	100	99.9	90	110	
Ca	44	2	He	9933.200	0.930	624919	1.93	10000	99.3	90	110	
Na	23	2	He	10153.363	1.090	16271526	1.29	10000	101.5	90	110	
Mg	24	2	He	10155.112	1.393	10098954	2.10	10000	101.6	90	110	
K	39	2	He	10063.160	0.604	12004739	1.62	10000	100.6	90	110	
Mn	55	2	He	99.461	0.960	826693	2.00	100	99.5	90	110	
Co	59	2	He	99.785	0.784	1763247	1.65	100	99.8	90	110	
Ni	60	2	He	99.769	1.520	453651	2.46	100	99.8	90	110	
Cu	63	2	He	100.066	1.197	1230474	2.32	100	100.1	90	110	
Zn	66	2	He	99.163	2.214	244754	3.43	100	99.2	90	110	
Al	27	2	He	101.045	1.569	65546	2.39	100	101.0	90	110	
B	11	1	No Gas	484.036	2.043	1471509	2.22	500	96.8	90	110	
Al	27	1	No Gas	99.156	1.434	2313168	2.39	100	99.2	90	110	
Si	28	1	No Gas	494.126	0.980	5537370	1.53	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.852	3.534	2945610	3.60	100	100.9	90	110	
Cd	111	1	No Gas	99.332	2.459	563417	2.61	100	99.3	90	110	
Sr	88	1	No Gas	101.353	2.070	5468669	1.83	100	101.4	90	110	
Mo	95	1	No Gas	99.660	2.084	1069344	2.09	100	99.7	90	110	
Sn	118	1	No Gas	101.002	2.020	1768698	1.68	100	101.0	90	110	
Sb	121	1	No Gas	99.358	1.489	2459624	1.35	100	99.4	90	110	
Ba	137	1	No Gas	100.780	2.330	855247	1.14	100	100.8	90	110	
Tl	205	1	No Gas	99.258	2.300	4754334	2.65	100	99.3	90	110	
Tl	203	1	No Gas	99.225	1.922	2006322	2.13	100	99.2	90	110	
Pb	208	1	No Gas	99.882	2.042	6577133	2.44	100	99.9	90	110	
U	238	1	No Gas	96.507	1.107	6403653	1.65	100	96.5	90	110	
Ca	43	2	He	10075.134	1.722	36826	1.02	10000	100.8	90	110	
Sb	121	2	He	97.855	1.736	1167596	1.86	100	97.9	90	110	
Ti	47	2	He	101.280	1.262	37825	2.31	100	101.3	90	110	
Cu	63	1	No Gas	100.744	2.063	2299631	2.88	100	100.7	90	110	
Se	82	1	No Gas	100.019	3.312	38021	4.28	100	100.0	90	110	
Zr	90	1	No Gas	99.134	2.288	3399159	2.09	100	99.1	90	110	
Zr	90	2	He	96.755	1.350	1465192	1.08	100	96.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1137528	0.22	1318920	86.25	70	120	
Ge	72	2	He	1216661	1.22	1309648	92.90	70	120	
Ge	72	1	No Gas	3989823	1.11	4382507	91.04	70	120	
In	115	1	No Gas	4294161	1.63	4742062	90.55	70	120	
Bi	209	1	No Gas	3543080	0.87	3878294	91.36	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	052_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:52:52-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.073	39.9	71358	1.4	0.5	
Be	9	1	No Gas	0.008	40.5	83	19.3	0.5	
V	51	2	He	-0.045	-44.0	2880	5.9	2.5	
Cr	52	2	He	-0.194	-22.0	10661	4.2	2.5	
Fe	56	2	He	1.162	9.5	30377	3.7	100	
Se	78	2	He	0.074	210.6	239	9.8	2	
As	75	2	He	0.005	337.3	371	8.1	2.5	
Ca	44	2	He	1.608	126.0	2137	5.9	100	
Na	23	2	He	37.573	5.1	193186	1.1	100	
Mg	24	2	He	0.589	18.3	1243	7.5	100	
K	39	2	He	9.258	24.6	159023	0.5	100	
Mn	55	2	He	0.026	41.6	910	9.6	2.5	
Co	59	2	He	0.001	300.1	123	55.2	2.5	
Ni	60	2	He	0.060	14.2	790	5.5	2.5	
Cu	63	2	He	0.040	31.7	2164	6.9	2	
Zn	66	2	He	0.201	39.0	1974	8.9	2.5	
Al	27	2	He	1.657	23.2	3374	6.7	5	
B	11	1	No Gas	2.313	18.0	25902	5.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.302	4.3	115315	0.8	5	
Si	28	1	No Gas	2.162	35.6	963287	0.2	10	
Ag	107	1	No Gas	-0.027	-10.8	1340	6.1	2.5	
Cd	111	1	No Gas	-0.001	-512.8	22	75.4	1	
Sr	88	1	No Gas	0.023	4.5	4341	0.8	2.5	
Mo	95	1	No Gas	0.062	13.0	847	10.2	2.5	
Sn	118	1	No Gas	0.047	46.8	5775	6.3	5	
Sb	121	1	No Gas	0.312	18.8	8626	17.5	2.5	
Ba	137	1	No Gas	0.041	17.3	670	9.8	2.5	
Tl	205	1	No Gas	0.008	32.1	1177	10.6	1	
Tl	203	1	No Gas	0.007	80.0	477	25.6	1	
Pb	208	1	No Gas	-0.003	-248.4	3774	12.4	2.5	
U	238	1	No Gas	0.003	15.7	833	3.7	2.5	
Ca	43	2	He	15.771	53.2	97	33.3	100	
Sb	121	2	He	0.224	7.3	3077	6.4	2.5	
Ti	47	2	He	-0.141	-10.8	7	86.6	2.5	
Cu	63	1	No Gas	0.037	28.5	4257	6.0	2.5	
Se	82	1	No Gas	0.117	260.5	753	15.3	2	
Zr	90	1	No Gas	0.260	21.1	10548	18.1	2.5	
Zr	90	2	He	0.150	10.0	3974	5.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1170690	0.71	1318920	88.76	70	120	
Ge	72	2	He	1237741	1.23	1309648	94.51	70	120	
Ge	72	1	No Gas	4069424	0.64	4382507	92.86	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4427892	0.53	4742062	93.37	70	120	
Bi	209	1	No Gas	3590077	0.52	3878294	92.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	273_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:42:12-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	93.944	2.834	1380051	2.60	100	93.9	90	110	
Be	9	1	No Gas	95.850	3.021	404014	2.90	100	95.9	90	110	
V	51	2	He	96.414	1.660	1114314	2.13	100	96.4	90	110	
Cr	52	2	He	96.638	1.578	1265983	2.17	100	96.6	90	110	
Fe	56	2	He	9671.467	1.693	119244032	2.10	10000	96.7	90	110	
Se	78	2	He	94.042	1.335	17420	1.94	100	94.0	90	110	
As	75	2	He	95.016	1.621	222687	2.17	100	95.0	90	110	
Ca	44	2	He	9418.874	0.771	661158	1.00	10000	94.2	90	110	
Na	23	2	He	9562.020	2.462	18117623	2.58	10000	95.6	90	110	
Mg	24	2	He	9510.618	1.519	11025925	1.89	10000	95.1	90	110	
K	39	2	He	9408.353	0.682	12411497	0.94	10000	94.1	90	110	
Mn	55	2	He	96.158	1.712	913880	1.90	100	96.2	90	110	
Co	59	2	He	97.779	1.193	2025456	1.67	100	97.8	90	110	
Ni	60	2	He	98.084	1.071	522317	1.51	100	98.1	90	110	
Cu	63	2	He	98.083	1.317	1418955	1.76	100	98.1	90	110	
Zn	66	2	He	97.154	1.490	277836	2.07	100	97.2	90	110	
Al	27	2	He	97.056	1.397	70403	1.49	100	97.1	90	110	
B	11	1	No Gas	473.795	2.105	1311656	2.00	500	94.8	90	110	
Al	27	1	No Gas	98.393	2.665	2215427	2.32	100	98.4	90	110	
Si	28	1	No Gas	464.508	2.811	4746151	2.22	5000	9.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	95.947	2.101	3310239	1.82	100	95.9	90	110	
Cd	111	1	No Gas	95.613	2.335	656416	2.49	100	95.6	90	110	
Sr	88	1	No Gas	94.269	2.337	5981377	2.28	100	94.3	90	110	
Mo	95	1	No Gas	93.770	2.189	1181153	1.93	100	93.8	90	110	
Sn	118	1	No Gas	97.110	1.620	2082165	1.93	100	97.1	90	110	
Sb	121	1	No Gas	101.304	2.209	2962645	2.02	100	101.3	90	110	
Ba	137	1	No Gas	95.592	1.830	1005028	1.85	100	95.6	90	110	
Tl	205	1	No Gas	94.551	3.068	6159735	2.95	100	94.6	90	110	
Tl	203	1	No Gas	94.344	2.088	2592031	1.97	100	94.3	90	110	
Pb	208	1	No Gas	97.152	1.896	8708055	1.75	100	97.2	90	110	
U	238	1	No Gas	97.433	3.034	8648791	2.85	100	97.4	90	110	
Ca	43	2	He	9558.123	2.289	39476	3.03	10000	95.6	90	110	
Sb	121	2	He	98.676	2.250	1356147	2.55	100	98.7	90	110	
Ti	47	2	He	95.717	2.060	40473	2.80	100	95.7	90	110	
Cu	63	1	No Gas	96.979	2.320	2230744	2.17	100	97.0	90	110	
Se	82	1	No Gas	97.487	2.445	40116	2.23	100	97.5	90	110	
Zr	90	1	No Gas	89.097	2.350	3563478	2.25	100	89.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	91.744	1.673	1582053	2.09	100	91.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	966015	0.45	1005681	96.06	70	120	
Ge	72	2	He	1412804	0.80	1291478	109.39	70	120	
Ge	72	1	No Gas	4351902	0.26	4054511	107.33	70	120	
In	115	1	No Gas	5278476	0.61	4760341	110.88	70	120	
Bi	209	1	No Gas	4865648	0.19	4254344	114.37	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	274_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:44:37-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.025	272.3	59301	0.7	0.5	
Be	9	1	No Gas	0.012	3.7	83	3.5	0.5	
V	51	2	He	-0.267	-4.1	4221	3.6	2.5	
Cr	52	2	He	-0.398	-7.4	9260	3.4	2.5	
Fe	56	2	He	1.063	1.9	33681	2.2	100	
Se	78	2	He	-0.130	-70.5	215	6.5	2	
As	75	2	He	-0.064	-33.0	409	12.1	2.5	
Ca	44	2	He	-4.706	-23.1	1440	4.9	100	
Na	23	2	He	91.399	3.4	366945	0.3	100	
Mg	24	2	He	0.361	6.4	1807	1.2	100	
K	39	2	He	-6.838	-33.8	151820	2.1	100	
Mn	55	2	He	-0.015	-53.5	863	8.4	2.5	
Co	59	2	He	0.005	34.7	190	19.0	2.5	
Ni	60	2	He	0.024	130.4	703	23.5	2.5	
Cu	63	2	He	-0.003	-152.5	1820	4.1	2	
Zn	66	2	He	0.074	40.3	2104	3.9	2.5	
Al	27	2	He	-0.669	-31.6	2224	8.2	5	
B	11	1	No Gas	3.378	8.8	21790	4.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.779	-8.2	69592	2.3	5	
Si	28	1	No Gas	-13.598	-2.2	579062	0.2	10	
Ag	107	1	No Gas	-0.012	-28.8	580	20.9	2.5	
Cd	111	1	No Gas	0.007	62.0	35	84.6	1	
Sr	88	1	No Gas	-0.003	-24.9	3254	0.9	2.5	
Mo	95	1	No Gas	0.063	21.0	1040	16.4	2.5	
Sn	118	1	No Gas	0.031	25.3	5335	2.5	5	
Sb	121	1	No Gas	0.138	22.0	5168	18.0	2.5	
Ba	137	1	No Gas	0.001	1452.9	537	15.6	2.5	
Tl	205	1	No Gas	0.044	50.2	3434	42.9	1	
Tl	203	1	No Gas	0.045	43.1	1473	37.3	1	
Pb	208	1	No Gas	0.004	29.9	2817	3.6	2.5	
U	238	1	No Gas	0.010	30.7	1573	17.4	2.5	
Ca	43	2	He	10.491	70.2	100	30.0	100	
Sb	121	2	He	0.091	2.4	1837	1.7	2.5	
Ti	47	2	He	-0.012	-458.1	13	173.2	2.5	
Cu	63	1	No Gas	0.014	66.0	2874	7.6	2.5	
Se	82	1	No Gas	-0.313	-24.4	620	4.8	2	
Zr	90	1	No Gas	0.171	22.1	9040	17.1	2.5	
Zr	90	2	He	0.102	8.1	3737	5.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1014390	1.04	1005681	100.87	70	120	
Ge	72	2	He	1447028	1.45	1291478	112.04	70	120	
Ge	72	1	No Gas	4503387	0.32	4054511	111.07	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5376924	0.62	4760341	112.95	70	120	
Bi	209	1	No Gas	4969473	0.44	4254344	116.81	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	276LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:49:26-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.006	2.006	4.05	88207	0.00	2	
Be	9	1	No Gas	1.902	1.902	3.53	8403	0.02	2	
V	51	2	He	1.802	1.802	2.12	29095	0.01	2	
Cr	52	2	He	1.807	1.807	3.93	39239	0.00	2	
Fe	56	2	He	197.128	197.128	1.38	2556756	0.01	200	
Se	78	2	He	1.697	1.697	6.40	568	0.30	2	
As	75	2	He	1.872	1.872	1.63	5140	0.04	2	
Ca	44	2	He	185.675	185.675	8.38	15382	1.21	200	
Na	23	2	He	260.684	260.684	2.33	705227	0.04	200	NewName Main CR1 Failed
Mg	24	2	He	197.330	197.330	2.78	240125	0.08	200	
K	39	2	He	183.680	183.680	1.14	413696	0.04	200	
Mn	55	2	He	1.911	1.911	5.28	19955	0.01	2	
Co	59	2	He	2.010	2.010	1.26	43526	0.00	2	
Ni	60	2	He	2.011	2.011	5.12	11749	0.02	2	
Cu	63	2	He	1.958	1.958	0.81	31413	0.01	2	
Zn	66	2	He	1.925	1.925	3.10	7632	0.03	2	
Al	27	2	He	1.694	1.694	17.06	3987	0.04	2	
B	11	1	No Gas	10.771	10.771	2.96	42878	0.03	10	
Al	27	1	No Gas	1.676	1.676	7.35	123664	0.00	2	
Si	28	1	No Gas	-5.633	-5.633	-19.14	646322	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.004	2.004	1.70	72325	0.00	2	
Cd	111	1	No Gas	1.971	1.971	3.50	13946	0.01	2	
Sr	88	1	No Gas	1.916	1.916	0.52	128822	0.00	2	
Mo	95	1	No Gas	1.936	1.936	2.20	25394	0.01	2	
Sn	118	1	No Gas	1.985	1.985	2.86	48546	0.00	2	
Sb	121	1	No Gas	2.116	2.116	1.30	64517	0.00	2	
Ba	137	1	No Gas	1.964	1.964	2.00	21832	0.01	2	
Tl	205	1	No Gas	1.865	1.865	0.34	125995	0.00	2	
Tl	203	1	No Gas	1.885	1.885	1.24	53691	0.00	2	
Pb	208	1	No Gas	1.973	1.973	0.30	185175	0.00	2	
U	238	1	No Gas	1.887	1.887	0.67	173741	0.00	2	
Ca	43	2	He	214.326	214.326	17.64	980	21.87	200	
Sb	121	2	He	2.036	2.036	0.98	29747	0.01	2	
Ti	47	2	He	1.906	1.906	17.73	860	0.22	200	
Cu	63	1	No Gas	2.057	2.057	0.93	51072	0.00	2	
Se	82	1	No Gas	2.170	2.170	23.04	1647	0.13	2	
Zr	90	1	No Gas	1.647	1.647	1.38	70011	0.00	2	
Zr	90	2	He	1.719	1.719	4.37	32870	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1009529	0.96	1005681	100.38	70	120	
Ge	72	2	He	1474472	0.61	1291478	114.17	70	120	
Ge	72	1	No Gas	4469740	0.87	4054511	110.24	70	120	
In	115	1	No Gas	5446459	1.02	4760341	114.41	70	120	
Bi	209	1	No Gas	5026581	0.77	4254344	118.15	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	277LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:51:51-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.895	4.895	1.48	129184	0.00	5	
Be	9	1	No Gas	4.796	4.796	2.03	20899	0.02	5	
V	51	2	He	4.758	4.758	1.40	64283	0.01	5	
Cr	52	2	He	4.779	4.779	1.70	79139	0.01	5	
Fe	56	2	He	494.835	494.835	0.29	6363284	0.01	500	
Se	78	2	He	4.893	4.893	0.65	1173	0.42	5	
As	75	2	He	4.810	4.810	0.61	12263	0.04	5	
Ca	44	2	He	484.806	484.806	2.78	37100	1.31	500	
Na	23	2	He	560.731	560.731	1.49	1287693	0.04	500	
Mg	24	2	He	495.316	495.316	1.41	598419	0.08	500	
K	39	2	He	480.555	480.555	0.46	814249	0.06	500	
Mn	55	2	He	4.839	4.839	1.38	48783	0.01	5	
Co	59	2	He	5.050	5.050	2.38	108861	0.00	5	
Ni	60	2	He	5.120	5.120	1.49	28904	0.02	5	
Cu	63	2	He	5.061	5.061	1.56	77934	0.01	5	
Zn	66	2	He	4.965	4.965	2.77	16587	0.03	5	
Al	27	2	He	5.052	5.052	7.69	6412	0.08	5	
B	11	1	No Gas	25.412	25.412	1.22	83854	0.03	25	
Al	27	1	No Gas	4.735	4.735	4.80	193897	0.00	5	
Si	28	1	No Gas	7.351	7.351	9.11	771777	0.00	25	NewName2 Main CR1 Failed
Ag	107	1	No Gas	4.997	4.997	2.33	178737	0.00	5	
Cd	111	1	No Gas	4.873	4.873	3.18	34480	0.01	5	
Sr	88	1	No Gas	4.758	4.758	2.14	314563	0.00	5	
Mo	95	1	No Gas	4.754	4.754	1.02	61979	0.01	5	
Sn	118	1	No Gas	4.863	4.863	2.15	112007	0.00	5	
Sb	121	1	No Gas	5.176	5.176	3.06	158172	0.00	5	
Ba	137	1	No Gas	4.798	4.798	3.72	52532	0.01	5	
Tl	205	1	No Gas	4.736	4.736	0.92	322207	0.00	5	
Tl	203	1	No Gas	4.726	4.726	0.80	135592	0.00	5	
Pb	208	1	No Gas	4.891	4.891	0.46	459492	0.00	5	
U	238	1	No Gas	4.765	4.765	2.32	441740	0.00	5	
Ca	43	2	He	507.690	507.690	2.46	2234	22.73	500	
Sb	121	2	He	5.130	5.130	0.66	73839	0.01	5	
Ti	47	2	He	4.716	4.716	6.90	2090	0.23	5	
Cu	63	1	No Gas	5.046	5.046	2.40	122968	0.00	5	
Se	82	1	No Gas	4.322	4.322	12.37	2567	0.17	5	
Zr	90	1	No Gas	4.333	4.333	2.65	180676	0.00	5	
Zr	90	2	He	4.577	4.577	0.45	83943	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	997412	0.39	1005681	99.18	70	120	
Ge	72	2	He	1469073	1.00	1291478	113.75	70	120	
Ge	72	1	No Gas	4520475	1.01	4054511	111.49	70	120	
In	115	1	No Gas	5443169	0.85	4760341	114.34	70	120	
Bi	209	1	No Gas	5073336	1.12	4254344	119.25	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	278ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:54:15-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.540	6.4	52573	0.7	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.033	21.7	138	18.5	0	ICSA Main CR1 Failed
V	51	2	He	-0.083	-31.2	6181	4.4	0	ICSA Main CR1 Failed
Cr	52	2	He	0.684	2.8	22899	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	99810.794	1.7	1221604728	0.9	0	
Se	78	2	He	-0.006	-726.7	231	2.5	0	ICSA Main CR1 Failed
As	75	2	He	0.315	6.9	1277	3.8	0	ICSA Main CR1 Failed
Ca	44	2	He	97983.059	2.5	6812201	1.5	0	
Na	23	2	He	100221.666	2.9	186757724	1.8	0	
Mg	24	2	He	99159.092	1.5	114121175	0.4	0	
K	39	2	He	99177.415	1.5	128413355	0.6	0	
Mn	55	2	He	1.552	1.2	15602	2.0	0	ICSA Main CR1 Failed
Co	59	2	He	0.994	5.6	20519	4.6	0	ICSA Main CR1 Failed
Ni	60	2	He	1.102	4.7	6378	3.5	0	ICSA Main CR1 Failed
Cu	63	2	He	0.769	2.1	12833	3.0	0	ICSA Main CR1 Failed
Zn	66	2	He	3.337	5.4	11241	4.1	0	ICSA Main CR1 Failed
Al	27	2	He	98989.865	2.2	68622984	1.0	0	
B	11	1	No Gas	3.736	9.2	17916	4.0	0	
Al	27	1	No Gas	93897.271	2.3	1933309891	1.4	0	
Si	28	1	No Gas	35.659	1.7	941963	1.2	0	
Ag	107	1	No Gas	0.043	13.5	2280	8.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.728	7.3	4627	7.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.858	3.9	53630	3.9	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1985.692	2.9	23210478	3.1	0	
Sn	118	1	No Gas	0.372	13.9	11649	9.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.124	3.3	4364	2.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.588	4.6	6218	4.4	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	49.0	913	25.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	30.6	410	17.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.943	0.9	76743	0.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.009	8.7	1287	4.7	0	ICSA Main CR1 Failed
Ca	43	2	He	94778.669	2.4	388102	1.4	0	
Sb	121	2	He	0.110	8.3	2030	6.4	0	ICSA Main CR1 Failed
Ti	47	2	He	1989.944	2.2	834923	1.0	0	
Se	82	1	No Gas	-0.157	-117.2	630	12.0	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	796659	0.45	1005681	79.22	70	120	
Ge	72	2	He	1402874	1.19	1291478	108.63	70	120	
Ge	72	1	No Gas	4136822	0.91	4054511	102.03	70	120	
In	115	1	No Gas	4898748	0.17	4760341	102.91	70	120	
Bi	209	1	No Gas	4297786	0.43	4254344	101.02	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	279ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:56:50-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.831	2.072	1146456	2.78	100	99.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	101.272	1.349	334497	2.25	100	101.3	80	120	
V	51	2	He	102.405	2.457	1193140	1.73	100	102.4	80	120	
Cr	52	2	He	100.458	2.394	1326602	1.67	100	100.5	80	120	
Fe	56	2	He	107956.121	2.626	1342110993	1.85	100	107956.1	80	120	
Se	78	2	He	102.882	1.434	19198	0.74	100	102.9	80	120	
As	75	2	He	100.499	1.448	237520	1.28	100	100.5	80	120	
Ca	44	2	He	107658.619	1.955	7603434	1.23	100	107658.6	80	120	
Na	23	2	He	109266.191	1.606	206837844	0.95	100	109266.2	80	120	
Mg	24	2	He	107421.260	1.526	125588828	1.16	100	107421.3	80	120	
K	39	2	He	109371.684	2.036	143833021	1.41	100	109371.7	80	120	
Mn	55	2	He	101.150	2.256	969478	1.60	100	101.2	80	120	
Co	59	2	He	101.380	2.360	2117935	1.82	100	101.4	80	120	
Ni	60	2	He	99.738	2.283	535653	1.87	100	99.7	80	120	
Cu	63	2	He	99.627	1.871	1453577	1.39	100	99.6	80	120	
Zn	66	2	He	102.450	1.233	295384	0.95	100	102.5	80	120	
Al	27	2	He	98927.003	2.598	69665846	2.06	100	98927.0	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	531.446	1.424	1151738	1.97	100	531.4	80	120	
Al	27	1	No Gas	91491.155	2.540	1890613678	1.88	100	91491.2	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	510.378	3.248	4910626	2.17	100	510.4	80	120	
Ag	107	1	No Gas	99.635	2.360	3145907	2.02	100	99.6	80	120	
Cd	111	1	No Gas	100.764	2.154	633071	1.81	100	100.8	80	120	
Sr	88	1	No Gas	103.683	1.798	6020342	1.46	100	103.7	80	120	
Mo	95	1	No Gas	2100.759	1.525	24213430	1.19	100	2100.8	80	120	
Sn	118	1	No Gas	104.222	2.561	2044701	2.29	100	104.2	80	120	
Sb	121	1	No Gas	108.109	2.784	3015941	2.15	100	108.1	80	120	
Ba	137	1	No Gas	104.097	2.395	1001562	2.18	100	104.1	80	120	
Tl	205	1	No Gas	92.043	1.704	5226390	1.74	100	92.0	80	120	
Tl	203	1	No Gas	90.826	2.496	2174897	2.33	100	90.8	80	120	
Pb	208	1	No Gas	105.225	1.602	8220223	1.52	100	105.2	80	120	
U	238	1	No Gas	105.743	2.258	8181367	2.37	100	105.7	80	120	
Ca	43	2	He	102986.724	1.781	428400	1.07	100	102986.7	80	120	
Sb	121	2	He	103.942	2.366	1440633	1.72	100	103.9	80	120	
Ti	47	2	He	2088.821	2.463	890288	1.80	100	2088.8	80	120	
Cu	63	1	No Gas	96.113	2.019	2109054	1.36	100	96.1	80	120	
Se	82	1	No Gas	104.135	1.257	40835	1.47	100	104.1	80	120	

QC ISTD Table

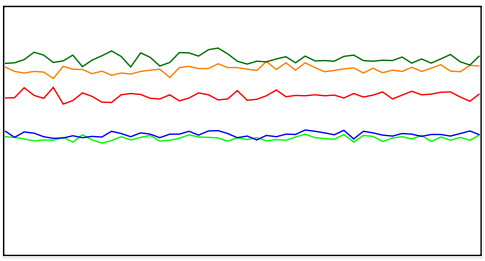
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	756908	1.10	1005681	75.26	70	120	
Ge	72	2	He	1425016	0.88	1291478	110.34	70	120	
Ge	72	1	No Gas	4151760	0.66	4054511	102.40	70	120	
In	115	1	No Gas	4830833	0.34	4760341	101.48	70	120	
Bi	209	1	No Gas	4240790	0.53	4254344	99.68	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq. Date-Time	5/30/2024 9:26:53 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	6418	64182.74		
24	50000	23475	234753.94		
59	100000	48539	485391.88		
115	100000	74912	749119.33		
208	50000	39643	396425.34		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.297	5.000	
24	1.975	5.000	
59	2.095	5.000	
115	1.896	5.000	
208	2.291	5.000	

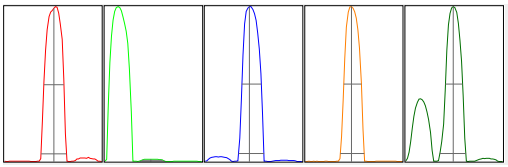
Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	2.200		
59	1.100		
115	1.700		
208	5.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.954 %
Doubly Charged	70 / 140 1.391 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6446.71	9.05	8.90 - 9.10	
24	23422.80	23.95	23.90 - 24.10	
59	49482.58	58.90	58.90 - 59.10	
115	74559.57	114.95	114.90 - 115.10	
208	39614.06	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779		
24	0.64	0.784		
59	0.60	0.776		
115	0.53	0.727		
208	0.53	0.791		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

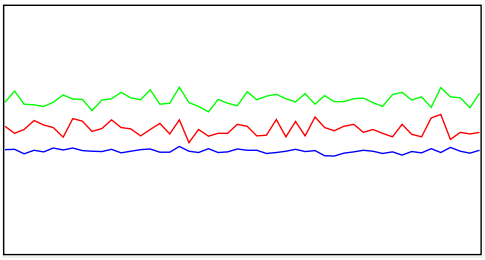
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	252	2517.22		
24	2000	1246	12463.67		
59	50000	20679	206788.77		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

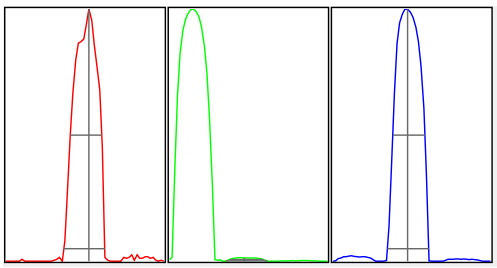
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.309	5.000	Fail
24	3.695	5.000	
59	1.981	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.700		
24	0.500		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.334 %
Doubly Charged	70 / 140 1.163 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	273.04	9.10	8.90 - 9.10	
24	1210.56	23.95	23.90 - 24.10	
59	20952.67	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.765		
24	0.64	0.779		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.775		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

Prep Batch Report

Batch ID:	212449	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	23 May 2024 03:30 PM	**Original Factor:**	1
End Date:	23 May 2024 07:30 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051228-01	B	Liquid	>2	1	10	10	10	DOD PH 12
HS24051276-01	B	Water	<2	10	10	1	1	
HS24051276-01MS	A		<2	10	10	1	1	
HS24051276-01MSD	A		<2	10	10	1	1	
HS24051276-01PDS	A		<2	10	10	1	1	
HS24051276-01SD	A		<2	10	10	1	1	
HS24051277-01	B	Water	<2	10	10	1	1	
LCS-212449	A			10	10	1	1	
MBLK-212449	A			10	10	1	1	

Prep Batch Report

Batch ID:	212449	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	23 May 2024 03:30 PM	**Original Factor:**	1
End Date:	23 May 2024 07:30 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB6
3010A	Thermometer ID	969569
3010A	Thermometer Location	D4
3010A	Dig. Cup ID	3111202421
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202408
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051228-01	B	Liquid		1	10	10	10	SAMPLE MATRIX
HS24051276-01	B	Water		10	10	1	1	
HS24051277-01	B	Water		10	10	1	1	
HS24051277-01MS	A			10	10	1	1	
HS24051277-01MSD	A			10	10	1	1	
LCS-212789	A			10	10	1	1	
MBLK-212789	A			10	10	1	1	

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -052324
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A1
Hg_W	LCS/MS ID:	02- SPK- 052024
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

HS24051276 E2400569 Perch Level IV Report

ALS WO# HS24051276

June 05, 2024 Service Request No:E2400569

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051276

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400569.**

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

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400569
Project:	HS24051276	**Date Received:**	05/22/24
Sample Matrix:	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

One sample was received for analysis at ALS Environmental in Houston on 05/22/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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.

Client: ALS Environmental - US **Service Request:**E2400569
Project: HS24051276

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400569-001	LH18/24-SP650_052124_AIX	5/21/2024	1300

Service Request Summary

Folder #: **E2400569**
Client Name: ALS Environmental - US
Project Name: HS24051276
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: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400569-001	LH18/24-SP650_052124_AIX	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #:	**E2400569**
Client Name:	ALS Environmental - US
Project Name:	HS24051276
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:	05/22/24
Internal Due Date:	6/5/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 8D

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.

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.

ALS Laboratory Group

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

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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E2400569
ALS Group USA, Corp.
HS24061276

5

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25758**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051276
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051276-02**	**LH18/24-SP650_052124_AIX**	**Water**	**21 May 2024 13:00**
	SUB_Perch-6850			30 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/22/24 1015

Cooler ID(s): _____ Temperature(s): _____

E2400569
ALS Group USA, Corp.
HS24051276

5

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Sample Receipt Checklist

Work Order ID: HS24051276 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 13:00 Bernadette A. Fini **Reviewed/By:** _____

Date/Time eSignature Date/Time eSignature

Matrices: Water **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): none	
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): 2.5/2.6 uc/c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 5-22-24 13:30

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: _____

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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

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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	SOWW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	SOWW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	SOWW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	SOWW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	SOWW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	SOWW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	SOWW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	SOWW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	SOWW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP650_052124_AIX	**Units:**	µg/L
Lab Code:	E2400569-001	**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	**0.977**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 16:54	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**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	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276
Sample Matrix: Water

Service Request: E2400569
Date Analyzed: 5/31/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**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	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400569
Project:	HS24051276	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**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	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

Initial Calibration

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841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240523-001	IB	Perchlorate6850c.lcm	1x		5/23/2024 14:17
2	20240523-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		5/23/2024 14:23
3	20240523-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		5/23/2024 14:28
4	20240523-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		5/23/2024 14:34
5	20240523-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		5/23/2024 14:39
6	20240523-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		5/23/2024 14:45
7	20240523-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		5/23/2024 14:50
8	20240523-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		5/23/2024 14:56
9	20240523-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		5/23/2024 15:01
10	20240523-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		5/23/2024 15:07
11	20240523-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		5/23/2024 15:12
12	20240523-012	PerchlorateICV	Perchlorate6850c.lcm	1x		5/23/2024 15:18
13	20240523-013	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:23
14	20240523-014	LODV	Perchlorate6850c.lcm	1x		5/23/2024 15:29
15	20240523-015	ICS	Perchlorate6850c.lcm	1x		5/23/2024 15:35
16	20240523-016	CCV	Perchlorate6850c.lcm	1x		5/23/2024 15:40
17	20240523-017	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:46
18	20240523-018	EQ2400248-01 MB	Perchlorate6850c.lcm	1x		5/23/2024 15:51
19	20240523-019	EQ2400248-02 LCS	Perchlorate6850c.lcm	1x		5/23/2024 15:57
20	20240523-020	EQ2400248-03 DLCS	Perchlorate6850c.lcm	1x		5/23/2024 16:02
21	20240523-021	EQ2400248-04 ICS	Perchlorate6850c.lcm	1x		5/23/2024 16:08
22	20240523-022	E2400538-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:13
23	20240523-023	E2400498-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:19
24	20240523-024	E2400498-02	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:25
25	20240523-025	E2400483-01	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:30
26	20240523-026	E2400538-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:36
27	20240523-027	E2400483-02	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:41
28	20240523-028	CCV	Perchlorate6850c.lcm	1x		5/23/2024 16:47
29	20240523-029	IB	Perchlorate6850c.lcm	1x		5/23/2024 16:52
30	20240523-030	E2400492-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:58
31	20240523-031	E2400538-01 10x	Perchlorate6850c.lcm	1x	10x DL wrong	5/23/2024 17:03
32	20240523-032	E2400492-02	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:09
33	20240523-033	E2400492-03	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:15
34	20240523-034	E2400492-04	Perchlorate6850c.lcm	1x		5/23/2024 17:20
35	20240523-035	E2400493-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:26
36	20240523-036	CCV	Perchlorate6850c.lcm	1x		5/23/2024 17:31
37	20240523-037	IB	Perchlorate6850c.lcm	1x		5/23/2024 17:37

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

Initial Calibration - Detailed Report

Calibration ID: EC2400008 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400008-01	Perchlorate ICAL 1	20240523-002	05/23/2024 14:23
02	EC2400008-02	Perchlorate ICAL 2	20240523-003	05/23/2024 14:28
03	EC2400008-03	Perchlorate ICAL 3	20240523-004	05/23/2024 14:34
04	EC2400008-04	Perchlorate ICAL 4	20240523-005	05/23/2024 14:39
05	EC2400008-05	Perchlorate ICAL 5	20240523-006	05/23/2024 14:45
06	EC2400008-06	Perchlorate ICAL 6	20240523-007	05/23/2024 14:50
07	EC2400008-07	Perchlorate ICAL 7	20240523-008	05/23/2024 14:56
08	EC2400008-08	Perchlorate ICAL 8	20240523-009	05/23/2024 15:01
09	EC2400008-09	Perchlorate ICAL 9	20240523-010	05/23/2024 15:07
10	EC2400008-10	Perchlorate ICAL 10	20240523-011	05/23/2024 15:12

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.262** **Average RF = 0.1325**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	08	20.0000	0.1398
09	30.0000	0.1399	10	50.0000	0.1401						

Analyte

Perchlorate RSE = 6.26

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0961	-3.9	02	0.5000	0.442	-11.6	03	0.7000	0.649	-7.3
04	1.0000	0.964	-3.6	05	2.0000	2.03	1.5	06	5.0000	5.11	2.2
07	10.0000	10.6	5.7	08	20.0000	21.1	5.5	09	30.0000	31.7	5.6
10	50.0000	52.9	5.8								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400008	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240523-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400008-11	T	Average RF	10	10.506	ng/mL	5.1	<= 15

Insight Report

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Method File: I:\LCMS01\DATA\20240523ICAL\20240523.lcm
Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

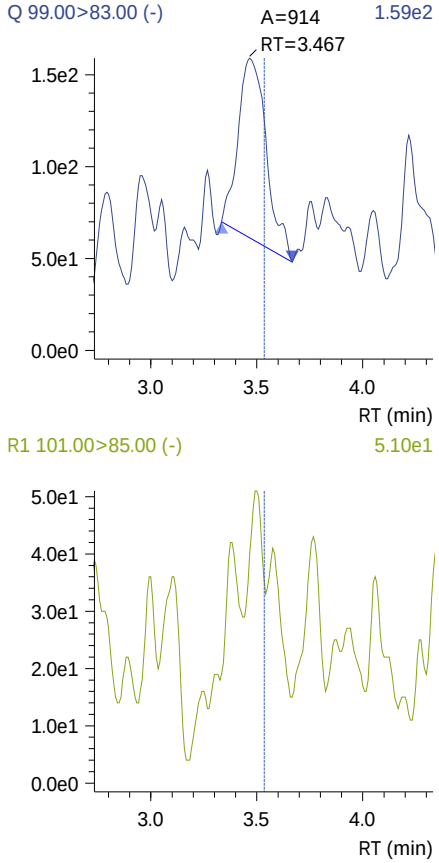
IB

Sample ID: IB
Date Acquired: 5/23/2024 2:17:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	424709	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.478	424709	424709	1.0000	ng/mL	----	----	

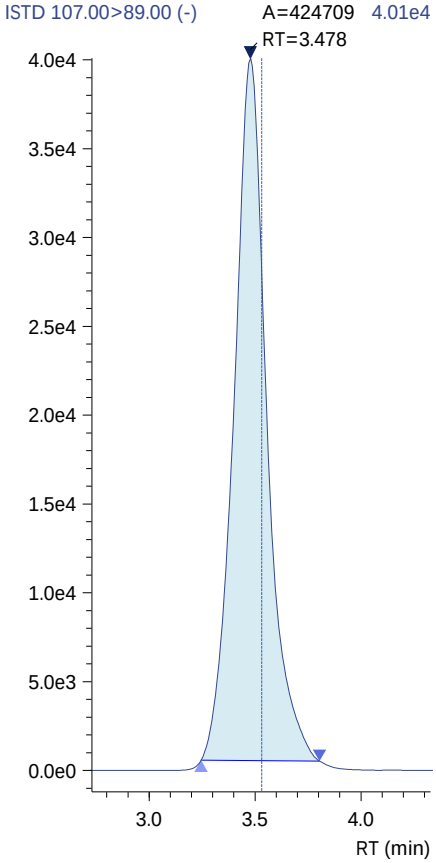
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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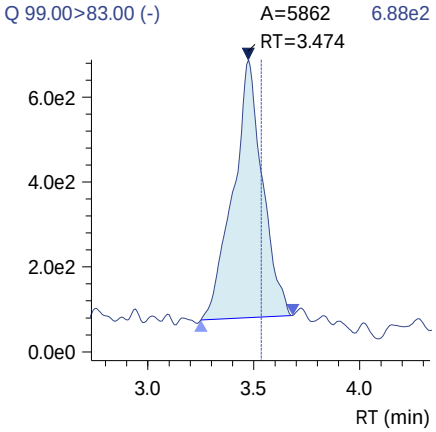
Perchlorate ICAL 1

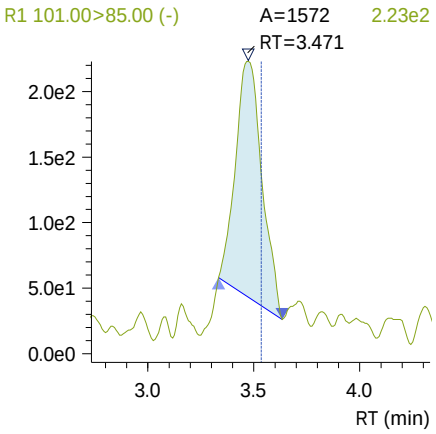
Sample ID: Perchlorate ICAL 1
Date Acquired: 5/23/2024 2:23:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	5862	460498	0.0961	ng/mL	101.00 >85.00	26.81	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.476	460498	460498	1.0000	ng/mL	----	----	

Perchlorate

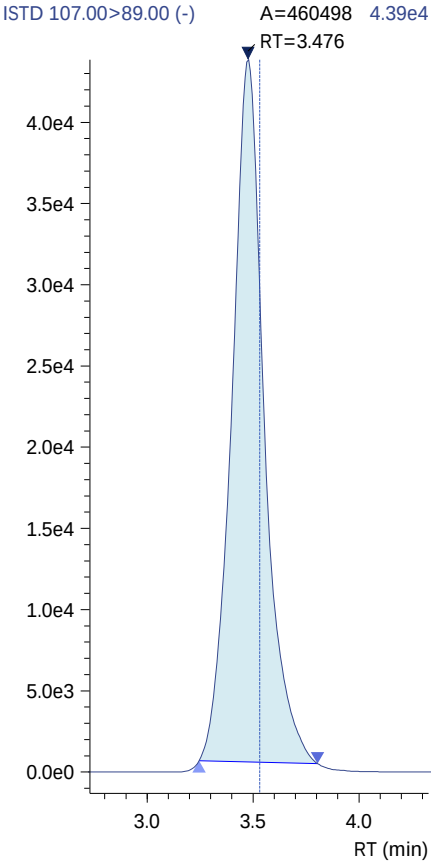
Conc 0.0961
R#1 26.81 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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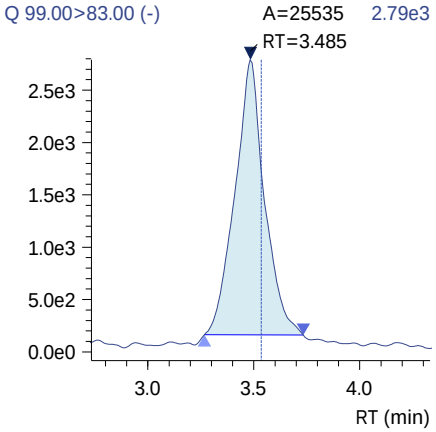
Perchlorate ICAL 2

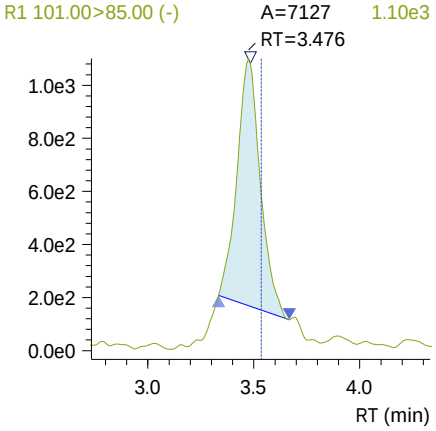
Sample ID: Perchlorate ICAL 2
Date Acquired: 5/23/2024 2:28:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.485	25535	436264	0.4419	ng/mL	101.00 >85.00	27.91	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.477	436264	436264	1.0000	ng/mL	----	----	

Perchlorate

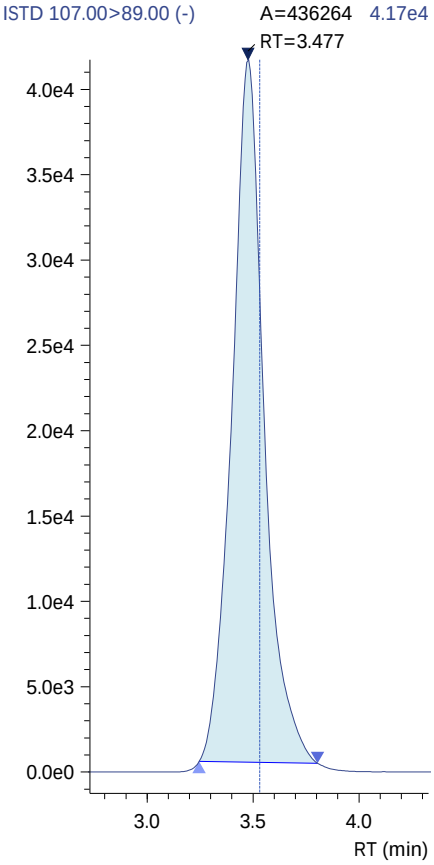
Conc 0.4419
R#1 27.91 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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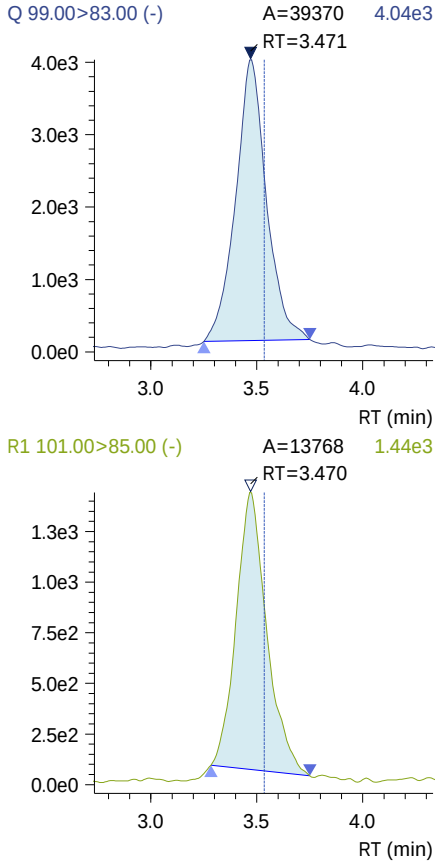
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 5/23/2024 2:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	39370	458077	0.6488	ng/mL	101.00 >85.00	34.97	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	458077	458077	1.0000	ng/mL	----	----	

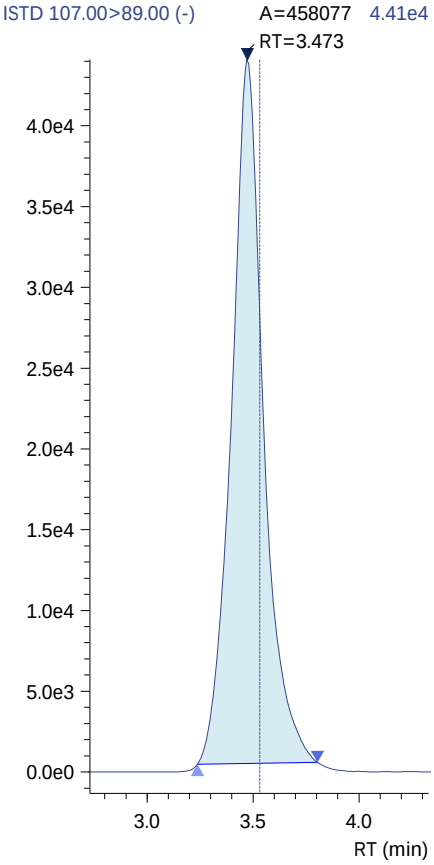
Perchlorate

Conc 0.6488
R#1 34.97 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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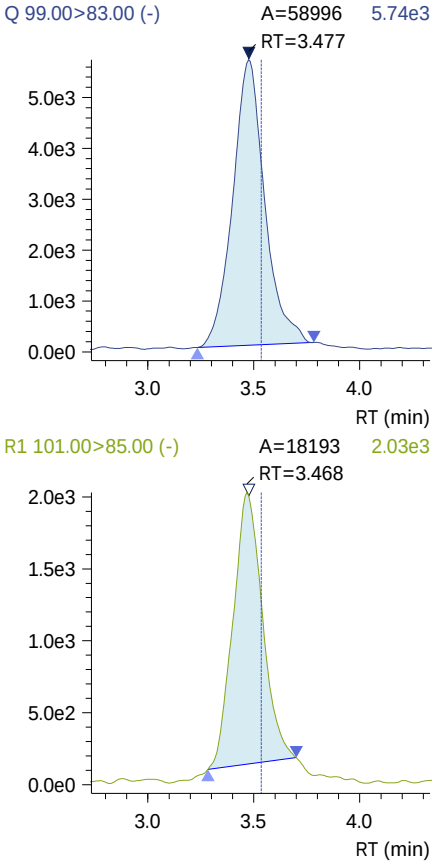
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 5/23/2024 2:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	58996	462144	0.9637	ng/mL	101.00 >85.00	30.84	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	462144	462144	1.0000	ng/mL	----	----	

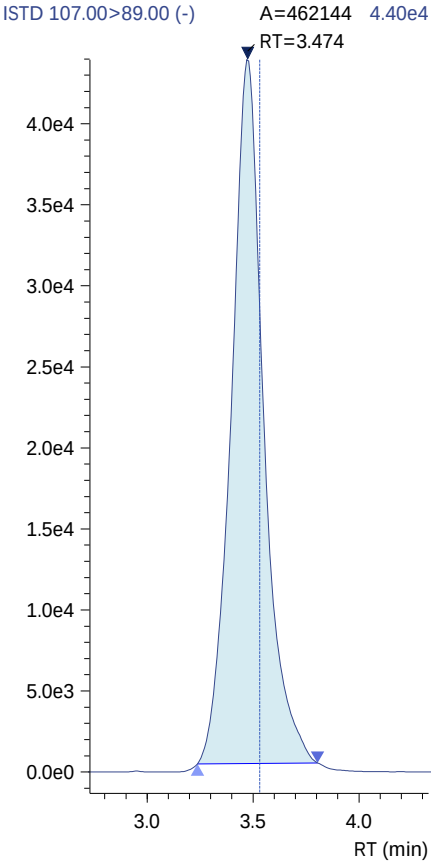
Perchlorate

Conc 0.9637
R#1 30.84 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

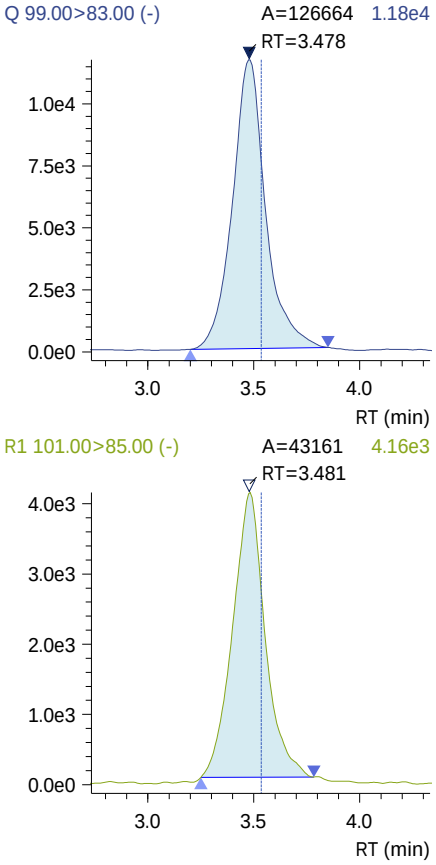
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 5/23/2024 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.478	126664	470896	2.0307	ng/mL	101.00 >85.00	34.08	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.475	470896	470896	1.0000	ng/mL	----	----	

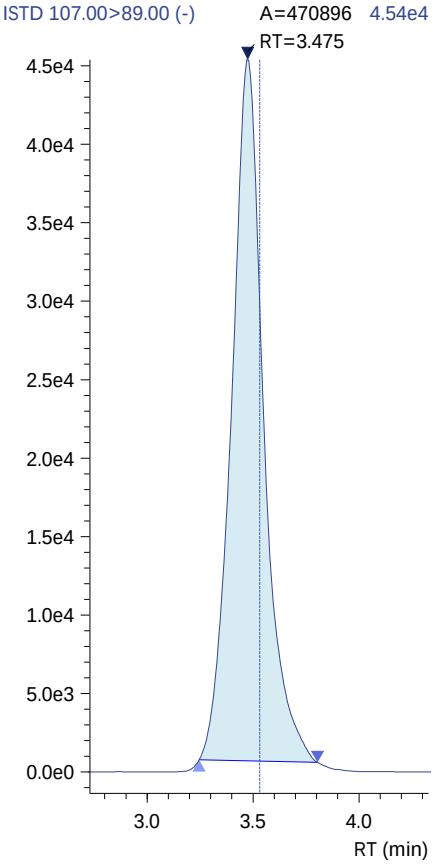
Perchlorate

Conc 2.0307
R#1 34.08 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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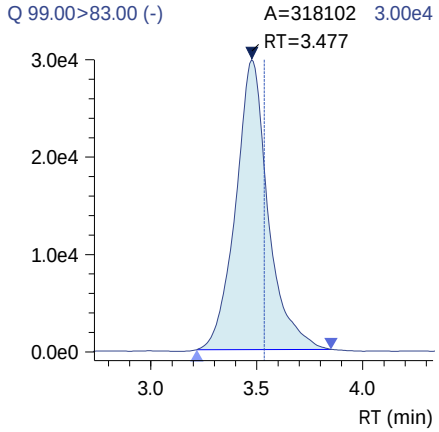
Perchlorate ICAL 6

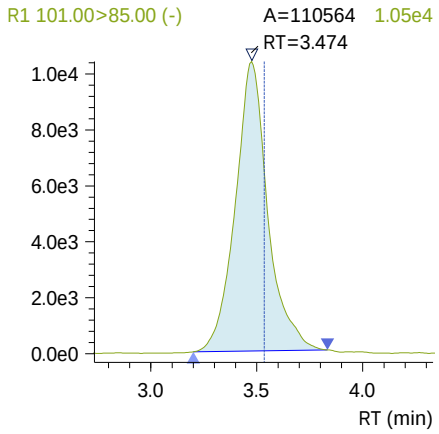
Sample ID: Perchlorate ICAL 6
Date Acquired: 5/23/2024 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	318102	469845	5.1113	ng/mL	101.00 >85.00	34.76	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	469845	469845	1.0000	ng/mL	----	----	

Perchlorate

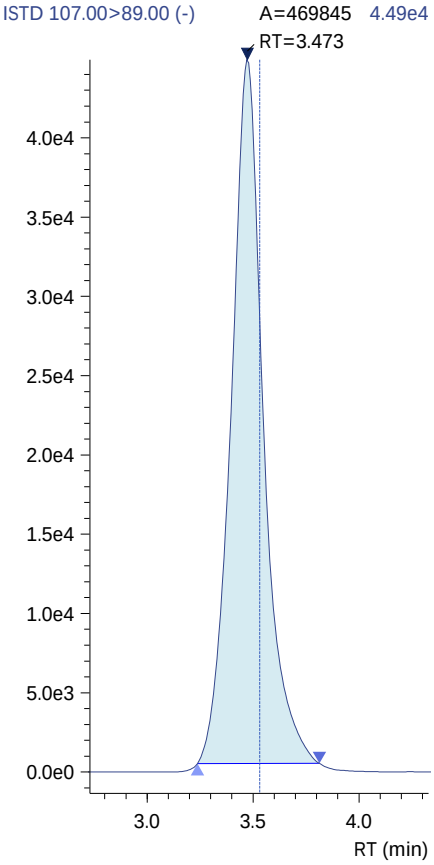
Conc 5.1113
R#1 34.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

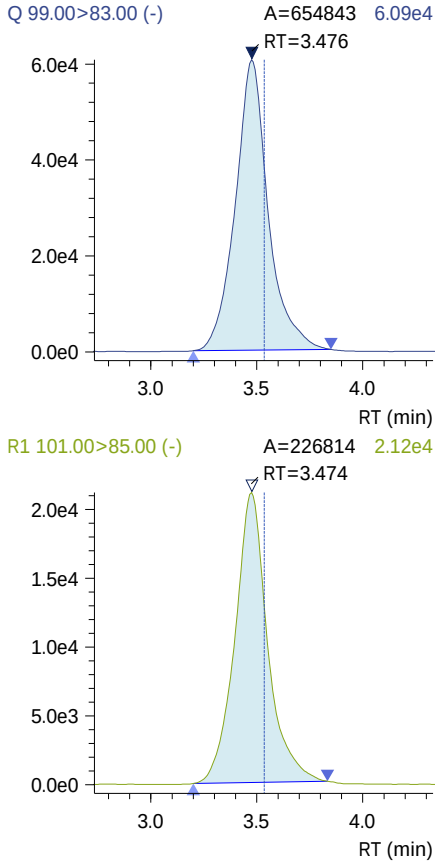
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 5/23/2024 2:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	654843	467526	10.5 742	ng/mL	101.00 >85.00	34.64	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	467526	467526	1.0000	ng/mL	----	----	

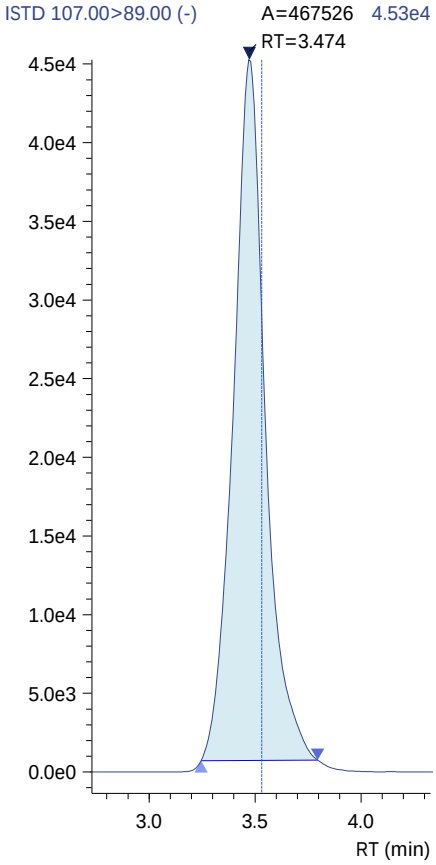
Perchlorate

Conc 10.5742
R#1 34.64 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 8

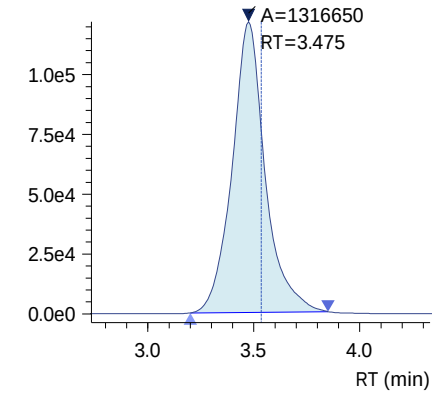
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Date Acquired: 5/23/2024 3:01:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	13166 50	470903	21.1 084	ng/mL	101.00 >85.00	34.99	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	470903	470903	1.0000	ng/mL	----	----	

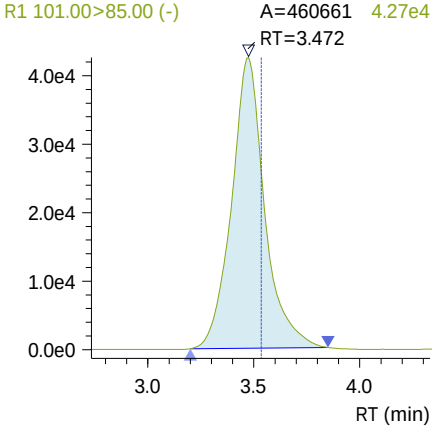
Perchlorate

Conc 21.1084
R#1 34.99 (34.10)

Q 99.00>83.00 (-) 1.22e5



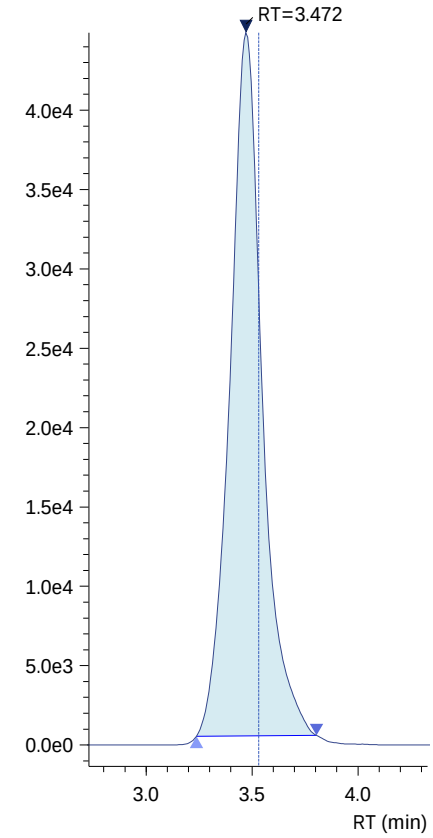
R1 101.00>85.00 (-) A=460661 4.27e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=470903 4.49e4



Insight Report

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Perchlorate ICAL 9

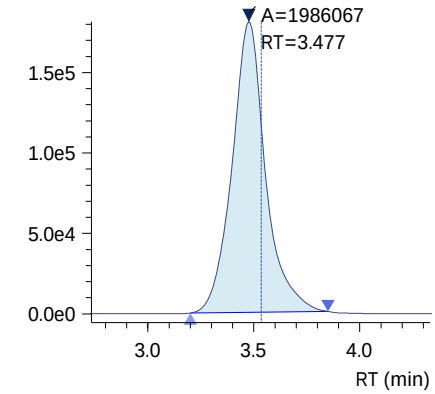
Sample ID: Perchlorate ICAL 9
Date Acquired: 5/23/2024 3:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	19860 67	473268	31.6 813	ng/mL	101.00 >85.00	34.46	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	473268	473268	1.0000	ng/mL	----	----	

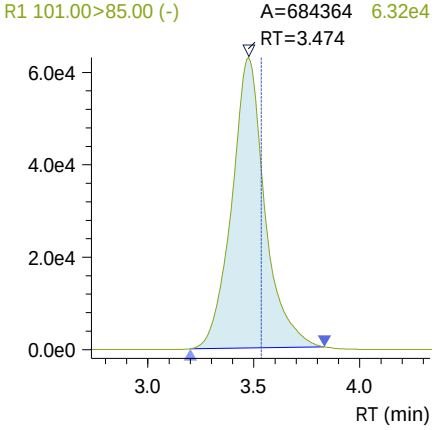
Perchlorate

Conc 31.6813
R#1 34.46 (34.10)

Q 99.00>83.00 (-) 1.82e5



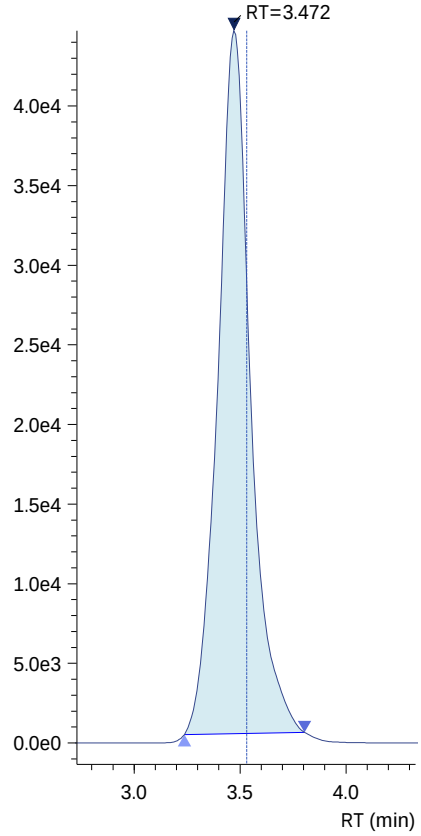
R1 101.00>85.00 (-) A=684364 6.32e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=473268 4.47e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 10

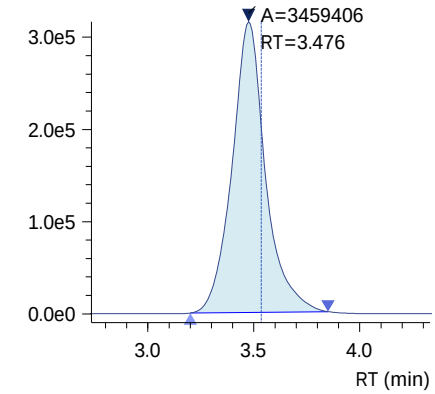
Sample ID: Perchlorate ICAL 10
Date Acquired: 5/23/2024 3:12:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	3459406	493682	52.9018	ng/mL	101.00 >85.00	34.61	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	493682	493682	1.0000	ng/mL	----	----	

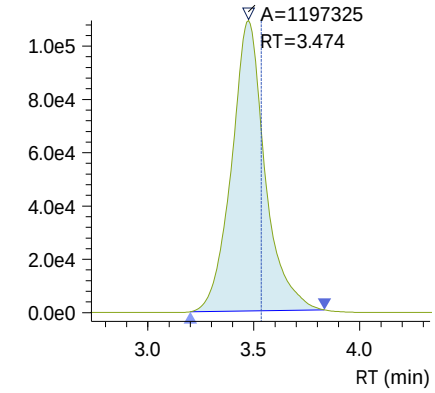
Perchlorate

Conc 52.9018
R#1 34.61 (34.10)

Q 99.00>83.00 (-) 3.17e5



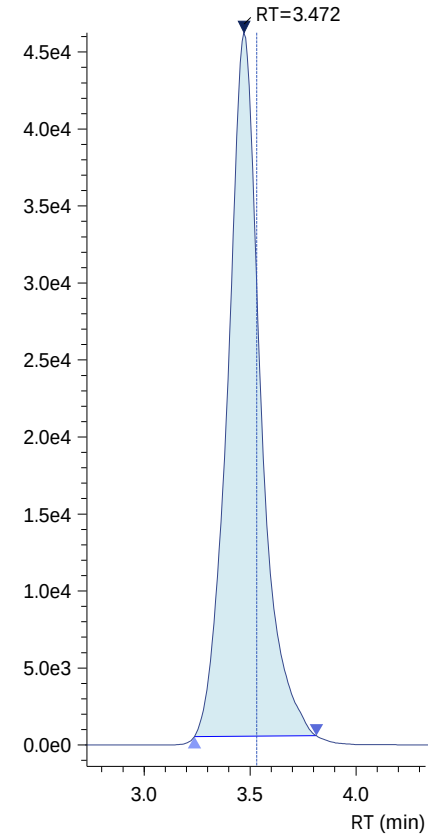
R1 101.00>85.00 (-) 1.10e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=493682 4.63e4



Insight Report

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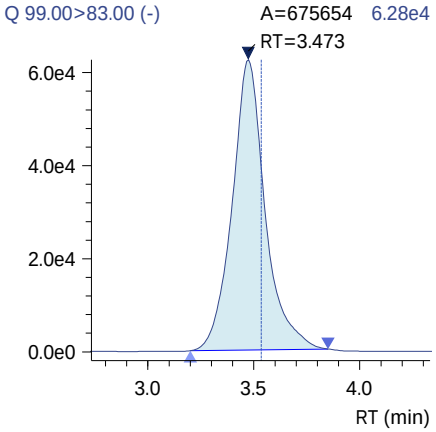
PerchlorateICV

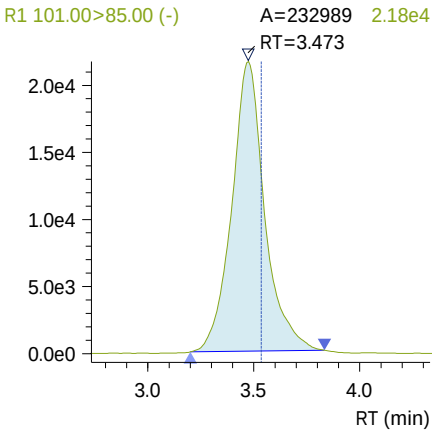
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Date Acquired: 5/23/2024 3:18:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	675654	485527	10.5058	ng/mL	101.00 >85.00	34.48	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	485527	485527	1.0000	ng/mL	----	----	

Perchlorate

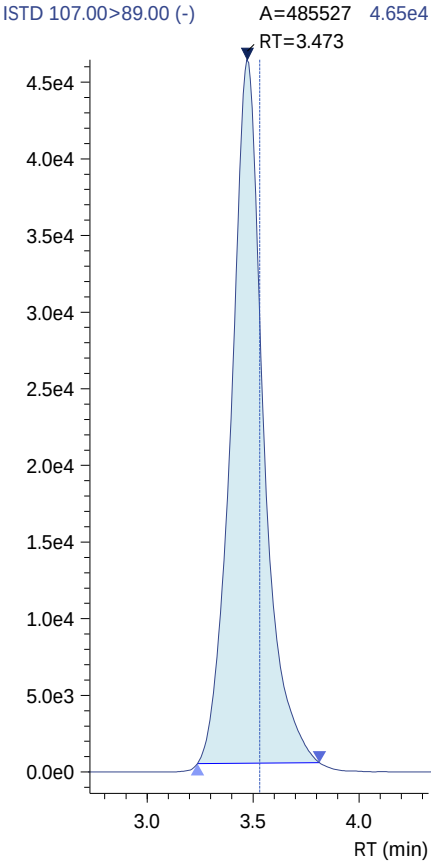
Conc 10.5058
R#1 34.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

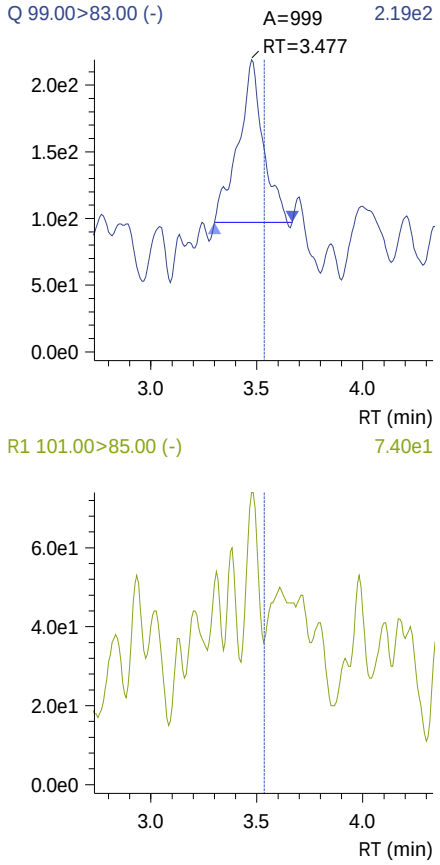
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:23:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	485949	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	485949	485949	1.0000	ng/mL	----	----	

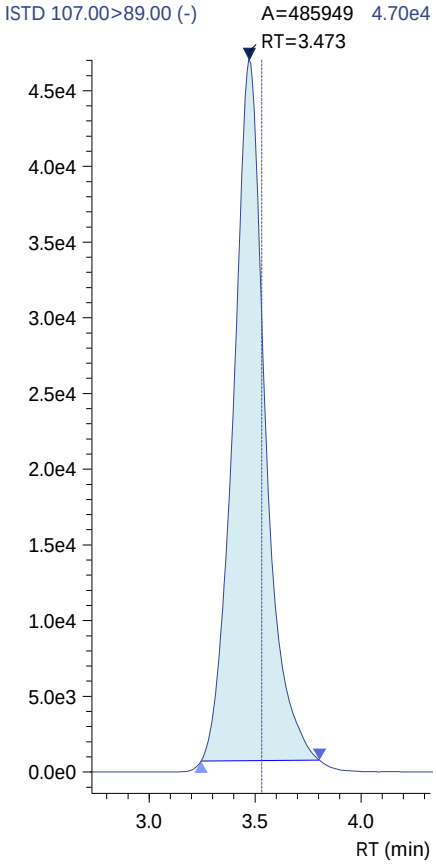
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240531-001	IB	Perchlorate6850c.lcm	1x		5/31/2024 11:57
2	20240531-002	LODV	Perchlorate6850c.lcm	1x		5/31/2024 12:03
3	20240531-003	ICS	Perchlorate6850c.lcm	1x		5/31/2024 12:11
4	20240531-004	CCV	Perchlorate6850c.lcm	1x		5/31/2024 12:17
5	20240531-005	IB	Perchlorate6850c.lcm	1x		5/31/2024 12:22
6	20240531-006	EQ2400267-01	Perchlorate6850c.lcm	1x	DNU out of range	5/31/2024 12:28
7	20240531-007	EQ2400267-02	Perchlorate6850c.lcm	1x		5/31/2024 12:33
8	20240531-008	EQ2400267-03	Perchlorate6850c.lcm	1x		5/31/2024 12:39
9	20240531-009	EQ2400267-04	Perchlorate6850c.lcm	1x		5/31/2024 12:44
10	20240531-010	EQ2400267-05	Perchlorate6850c.lcm	1x		5/31/2024 12:50
11	20240531-011	E2400547-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 12:55
12	20240531-012	EQ2400267-01	Perchlorate6850c.lcm	1x		5/31/2024 13:01
13	20240531-013	E2400548-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:06
14	20240531-014	E2400548-02	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:12
15	20240531-015	E2400548-03	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:18
16	20240531-016	E2400548-04	Perchlorate6850c.lcm	1x	/IB forgot to adjust file name (loc	5/31/2024 13:34
17	20240531-017	CCV	Perchlorate6850c.lcm	1x		5/31/2024 13:23
18	20240531-018	IB	Perchlorate6850c.lcm	1x		5/31/2024 13:29
19	20240531-019	E2400548-10	Perchlorate6850c.lcm	1x		5/31/2024 13:40
20	20240531-020	E2400548-06	Perchlorate6850c.lcm	1x		5/31/2024 13:45
21	20240531-021	E2400548-05 100X	Perchlorate6850c.lcm	100x		5/31/2024 13:51
22	20240531-022	E2400548-08 10000	Perchlorate6850c.lcm	10000x		5/31/2024 13:57
23	20240531-023	E2400548-09 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:02
24	20240531-024	E2400548-14 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:08
25	20240531-025	CCV	Perchlorate6850c.lcm	1x		5/31/2024 14:13
26	20240531-026	IB	Perchlorate6850c.lcm	1x		5/31/2024 14:19
27	20240531-027	E2400548-16	Perchlorate6850c.lcm	1x		5/31/2024 14:24
28	20240531-028	E2400548-18	Perchlorate6850c.lcm	1x		5/31/2024 14:30
29	20240531-029	EQ2400268-01	Perchlorate6850c.lcm	1x		5/31/2024 14:35
30	20240531-030	EQ2400268-02	Perchlorate6850c.lcm	1x		5/31/2024 14:41
31	20240531-031	EQ2400268-03	Perchlorate6850c.lcm	1x		5/31/2024 14:46
32	20240531-032	EQ2400268-04	Perchlorate6850c.lcm	1x		5/31/2024 14:52
33	20240531-033	E2400556-01	Perchlorate6850c.lcm	1x		5/31/2024 14:57
34	20240531-034	E2400556-02	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:03
35	20240531-035	E2400548-15 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:09
36	20240531-036	E2400548-17 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:14
37	20240531-037	CCV	Perchlorate6850c.lcm	1x		5/31/2024 15:20
38	20240531-038	IB	Perchlorate6850c.lcm	1x		5/31/2024 15:25
39	20240531-039	E2400556-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:31
40	20240531-040	E2400557-01	Perchlorate6850c.lcm	1x		5/31/2024 15:36

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240531-041	E2400557-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:42
42	20240531-042	E2400563-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:47
43	20240531-043	E2400563-02	Perchlorate6850c.lcm	1x	dnu	5/31/2024 15:53
44	20240531-044	E2400563-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:58
45	20240531-045	E2400566-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 16:04
46	20240531-046	E2400566-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:10
47	20240531-047	E2400566-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:15

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 12:17

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-01
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-01	412,559	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 13:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-02
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-02	386,740	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 14:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-025
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-03
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-03	374,551	3.46
Method Blank	EQ2400268-01	334,256	3.46
Lab Control Sample	EQ2400268-02	324,942	3.46
Duplicate Lab Control Sample	EQ2400268-03	321,396	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 15:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-037
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-04
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-04	356,549	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 16:26

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-049
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-05
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-05	315,667	3.46
LH18/24-SP650_052124_AIX	E2400569-001	285,656	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 17:16

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-058
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-06
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-06	298,706	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 18:00

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-066
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-07
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-07	268,553	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24 18:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-074
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-08
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-08	254,889	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-004

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1325	0.1431	8.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-017

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1469	10.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-025

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1463	10.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-037

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.3	0.1325	0.1497	13.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-049

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1470	11.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-058

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1461	10.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-066

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1454	9.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051276

Service Request: E2400569
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-074

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1325	0.1508	13.9	NA	± 15 %	Average RF

Insight Report

Printed at 6/3/2024 2:04:26 PM

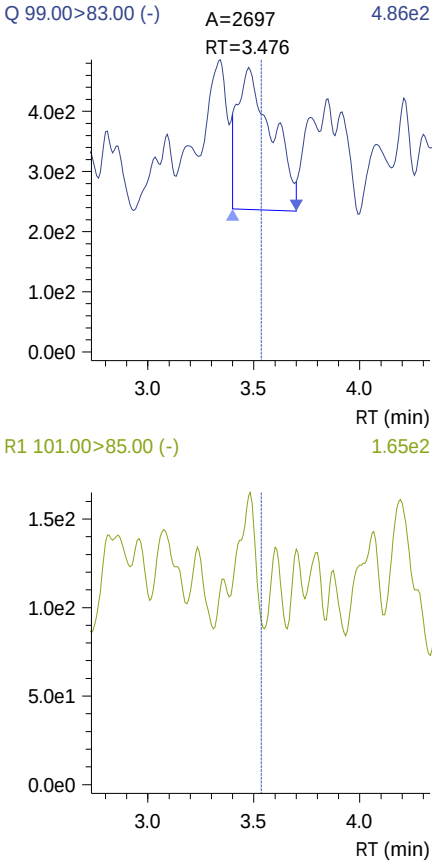
IB

Sample ID: IB
Date Acquired: 5/31/2024 11:57:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	407268	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.463	407268	407268	1.0000	ng/mL	----	----	

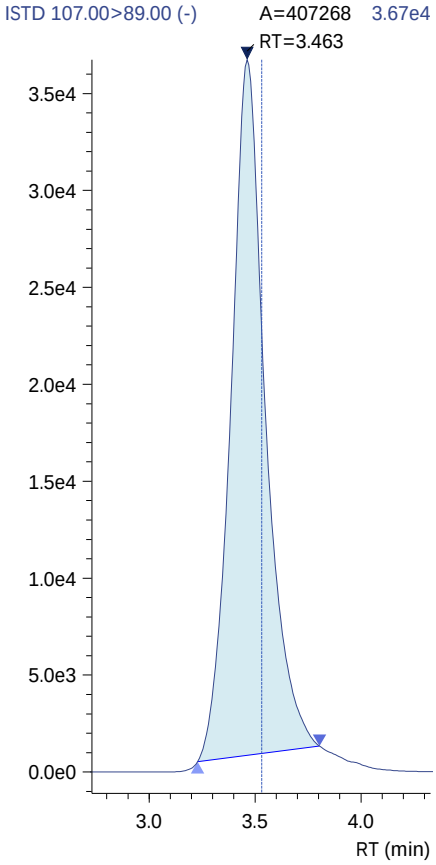
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

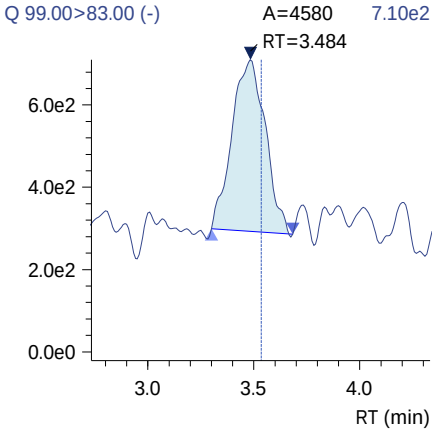
LODV

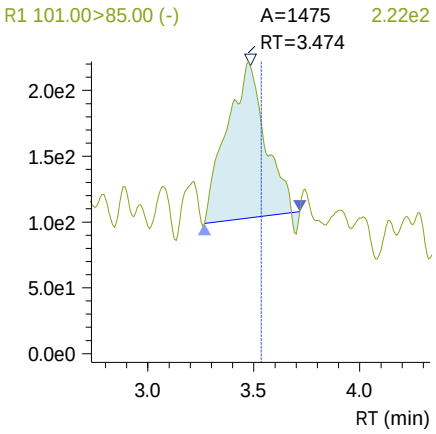
Sample ID: LODV
Date Acquired: 5/31/2024 12:03:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.484	4580	372154	0.0929	ng/mL	101.00 >85.00	32.21	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.462	372154	372154	1.0000	ng/mL	----	----	

Perchlorate

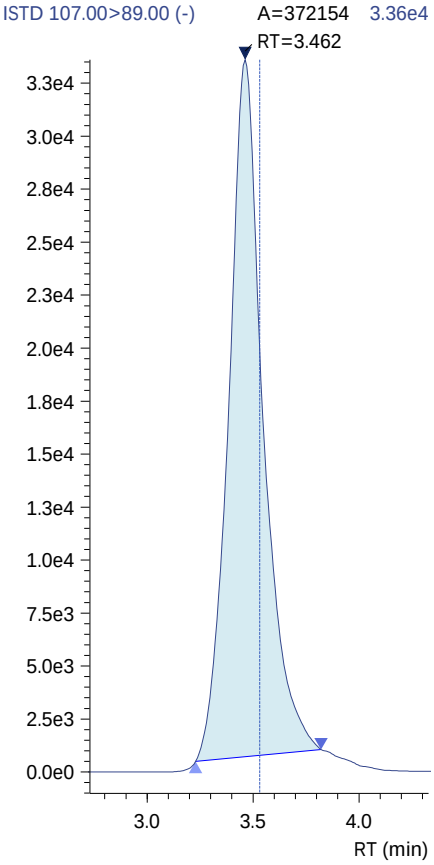
Conc 0.0929
R#1 32.21 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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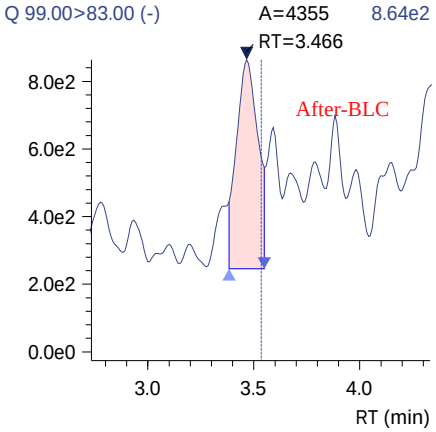
ICS

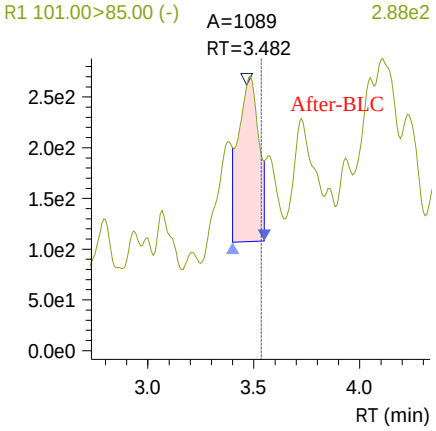
Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.466	4355	393279	0.0836	ng/mL	101.00 >85.00	25.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.464	393279	393279	1.0000	ng/mL	----	----	

Perchlorate

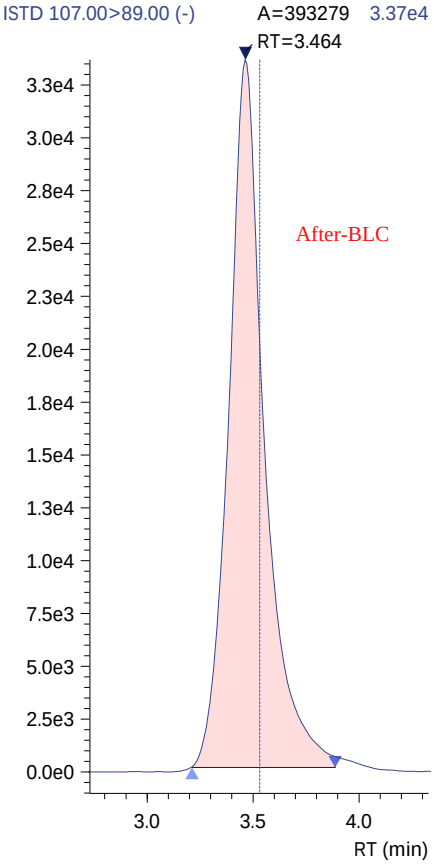
Conc 0.0836
R#1 25.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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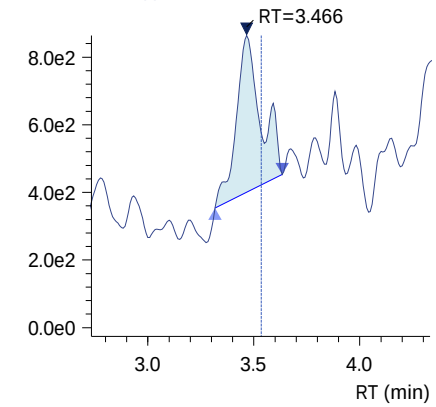
ICS

Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

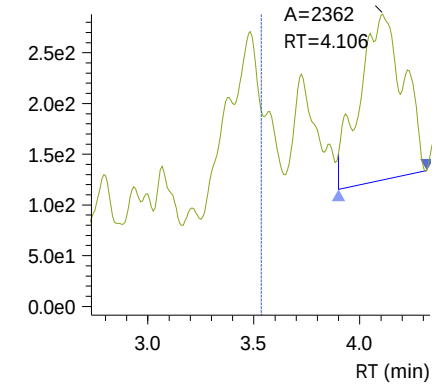
Perchlorate

Conc 0.0754
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=3700 8.64e2



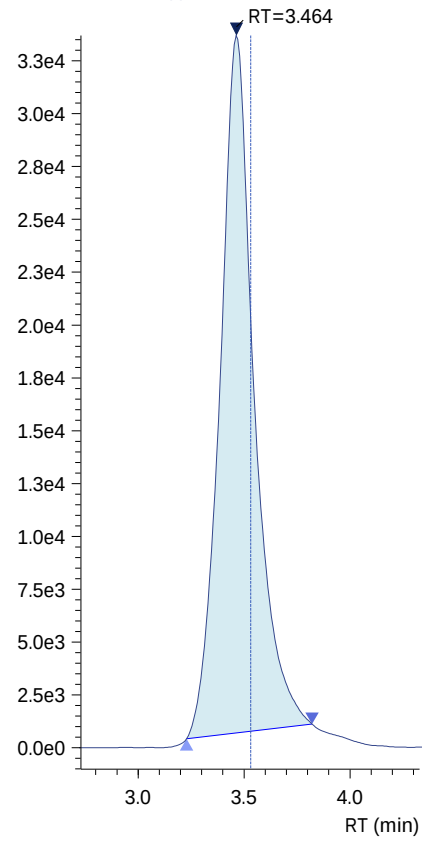
R1 101.00>85.00 (-) 2.88e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=370402 3.37e4



Insight Report

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Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

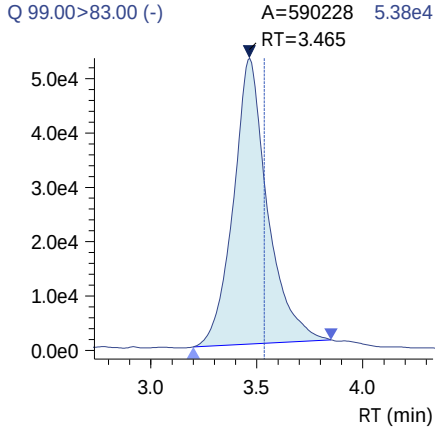
CCV

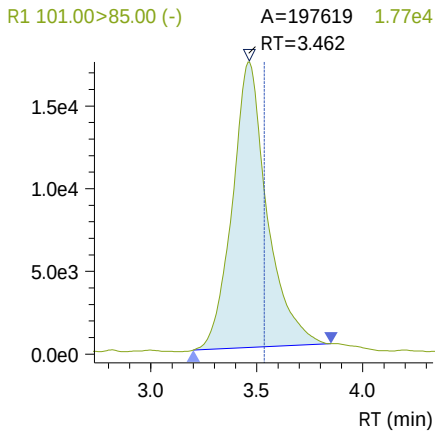
Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.465	590228	412559	10.8006	ng/mL	101.00 >85.00	33.48	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.461	412559	412559	1.0000	ng/mL	----	----	

Perchlorate

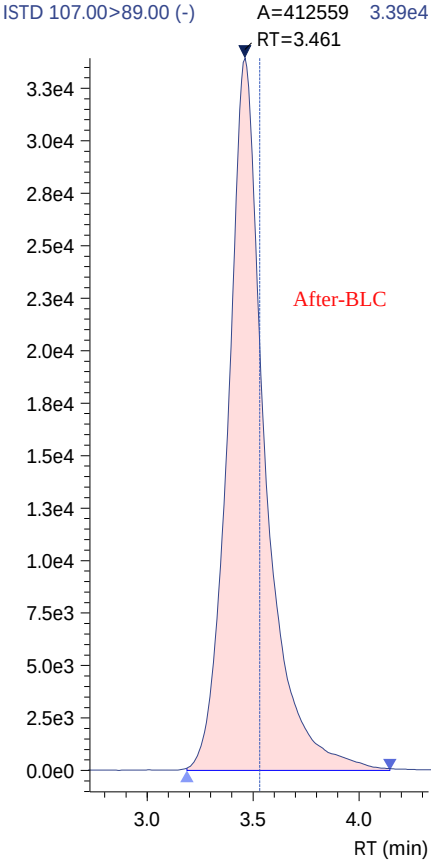
Conc 10.8006
R#1 33.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

CCV

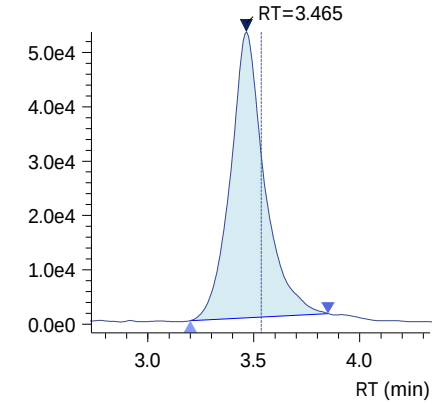
Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

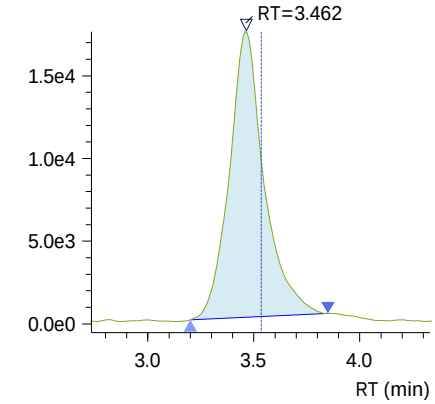
Conc 11.9457

R#1 33.48 (34.10)

Q 99.00>83.00 (-) A=590228 5.38e4



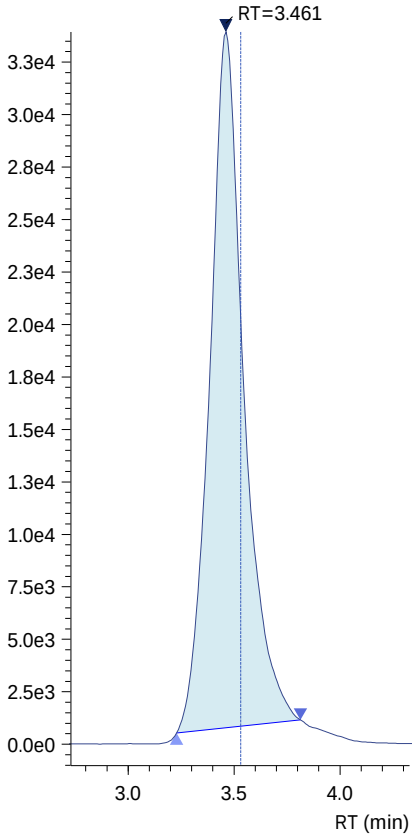
R1 101.00>85.00 (-) A=197619 1.77e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=373014 3.39e4



Insight Report

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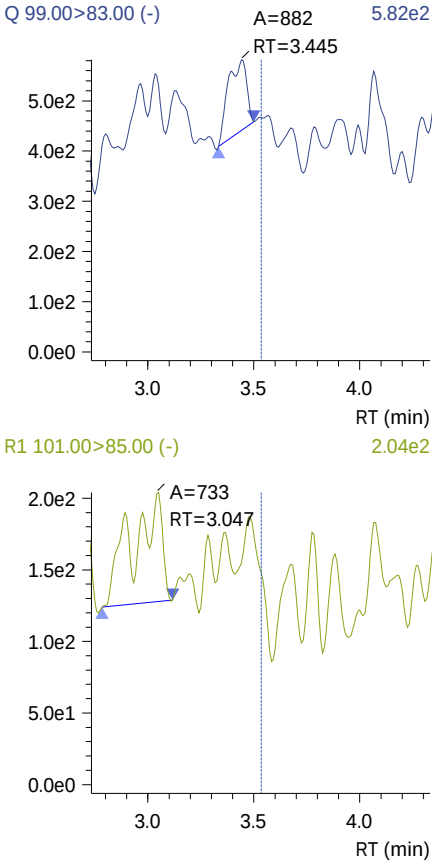
IB

Sample ID: IB
Date Acquired: 5/31/2024 12:22:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	411556	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.461	411556	411556	1.0000	ng/mL	----	----	

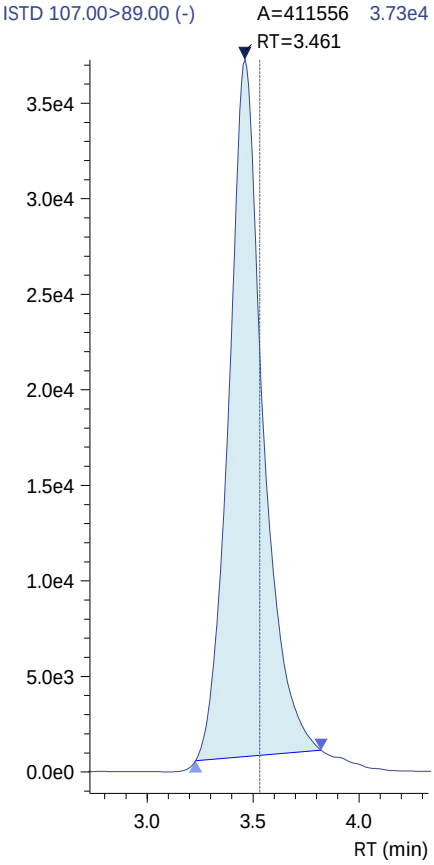
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

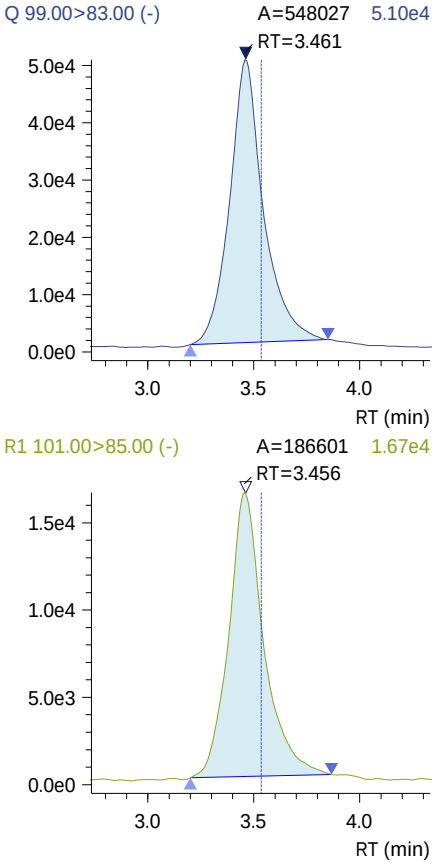
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.461	548027	374551	11.0461	ng/mL	101.00 >85.00	34.05	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	374551	374551	1.0000	ng/mL	----	----	

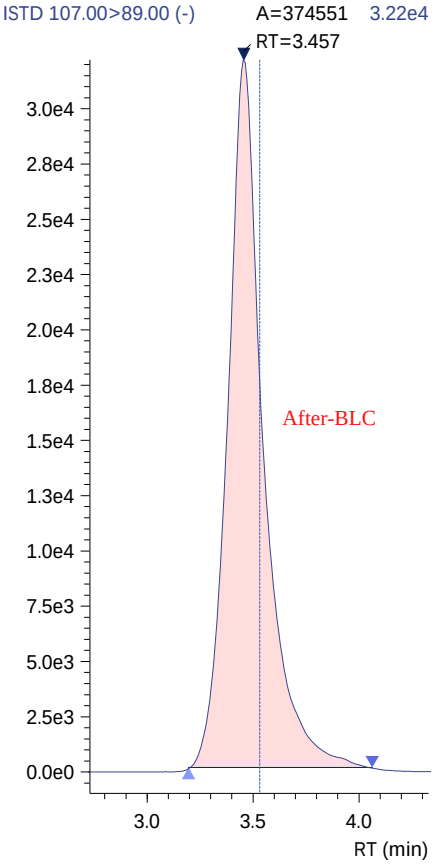
Perchlorate

Conc 11.0461
R#1 34.05 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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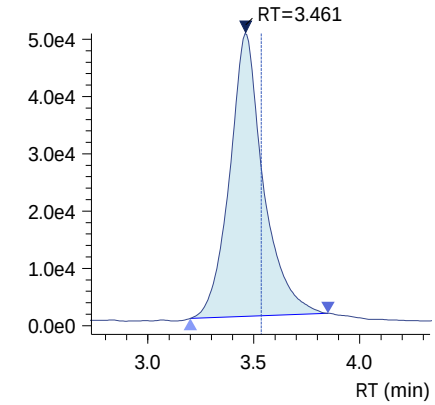
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

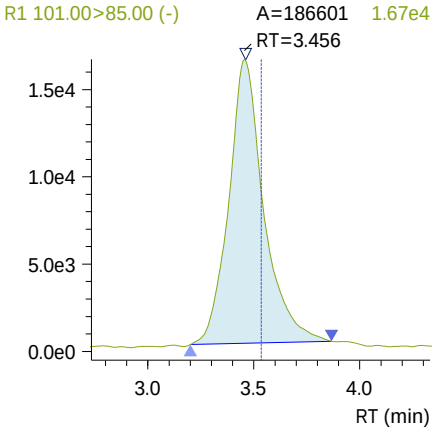
Perchlorate

Conc 11.9042
R#1 34.05 (34.10)

Q 99.00>83.00 (-) A=548027 5.10e4



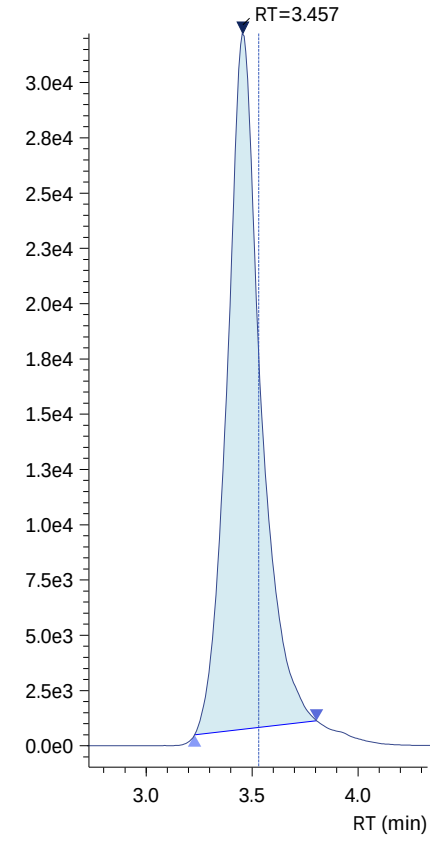
R1 101.00>85.00 (-) A=186601 1.67e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=347550 3.22e4



Insight Report

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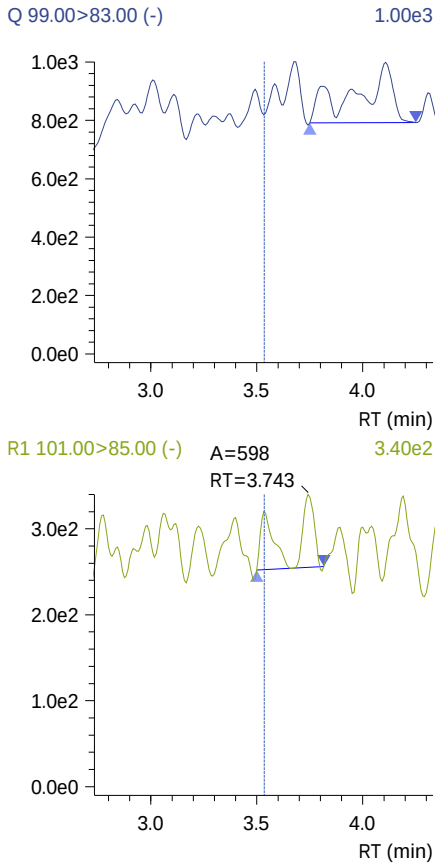
IB

Sample ID: IB
Date Acquired: 5/31/2024 2:19:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-026.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	377624	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	377624	377624	1.0000	ng/mL	----	----	

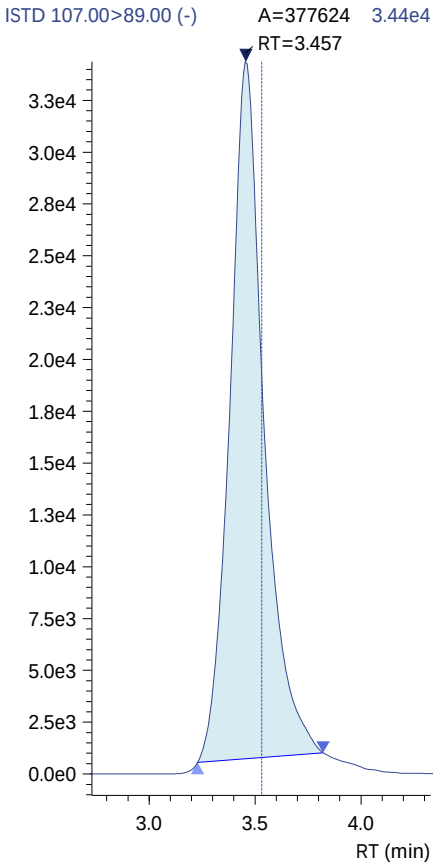
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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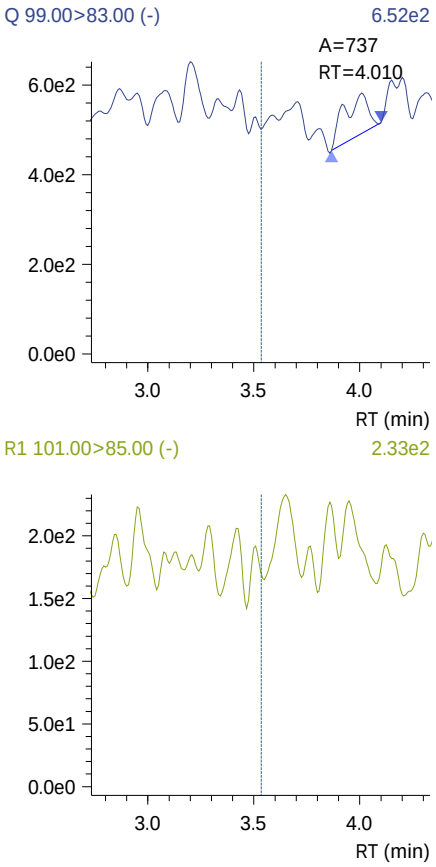
EQ2400268-01

Sample ID: EQ2400268-01
Date Acquired: 5/31/2024 2:35:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-029.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	334256	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.456	334256	334256	1.0000	ng/mL	----	----	

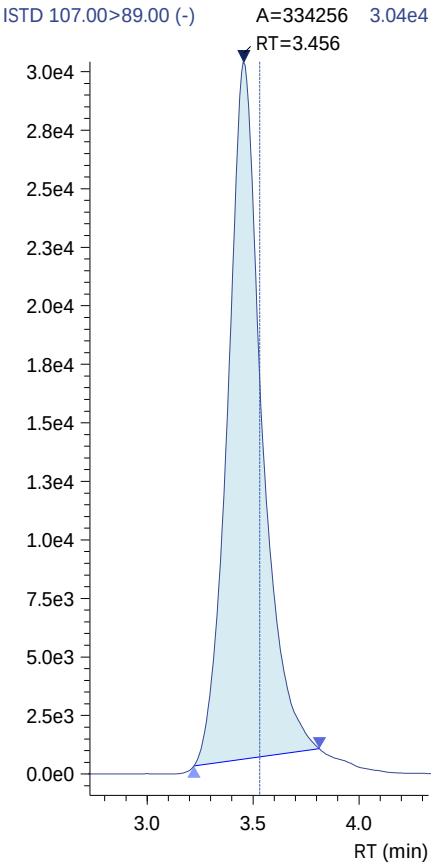
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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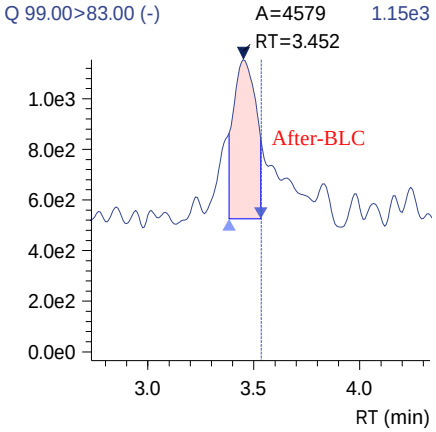
EQ2400268-02

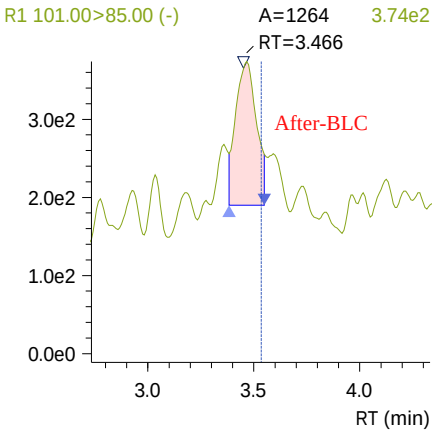
Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	4579	324942	0.1064	ng/mL	101.00 >85.00	27.60	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	324942	324942	1.0000	ng/mL	----	----	

Perchlorate

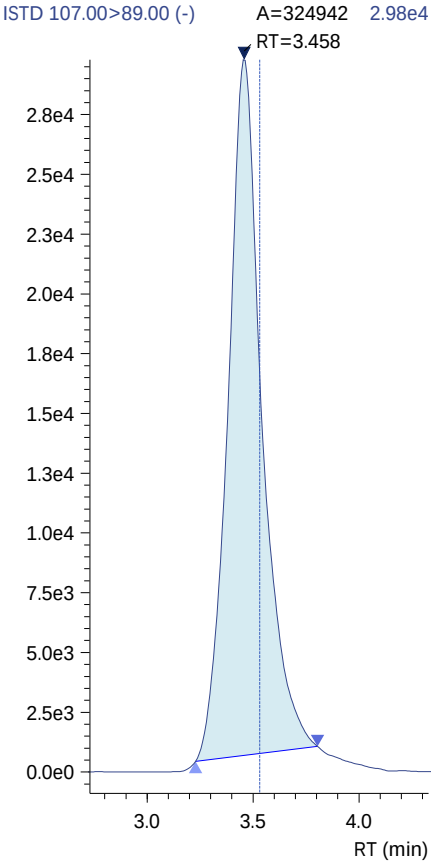
Conc 0.1064
R#1 27.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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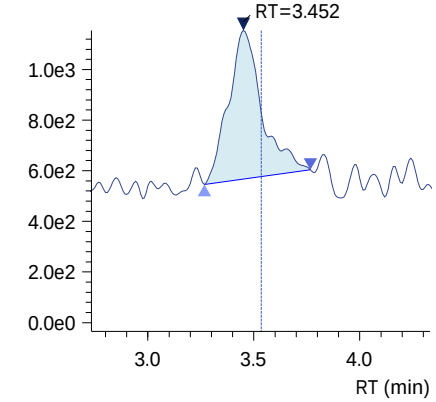
EQ2400268-02

Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

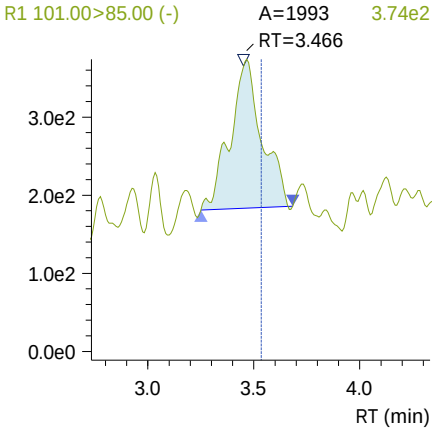
Perchlorate

Conc 0.1504
R#1 30.80 (34.10)

Q 99.00>83.00 (-) A=6472 1.15e3



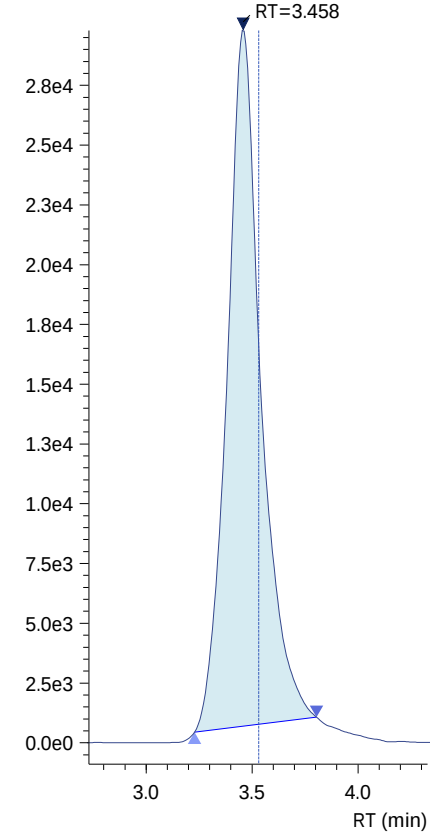
R1 101.00>85.00 (-) A=1993 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=324942 2.98e4



Insight Report

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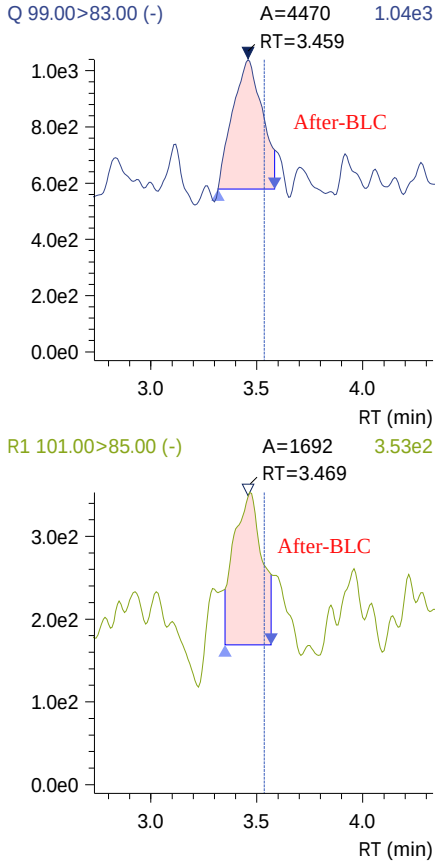
EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.459	4470	321396	0.1050	ng/mL	101.00 >85.00	37.85	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.456	321396	321396	1.0000	ng/mL	----	----	

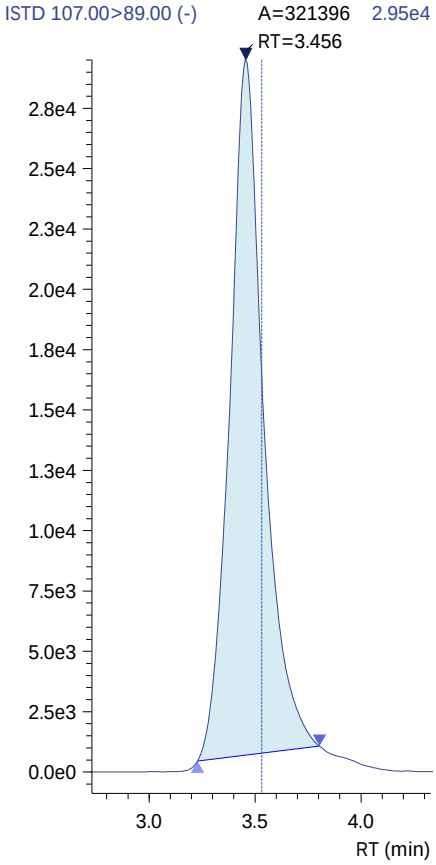
Perchlorate

Conc 0.1050
R#1 37.85 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

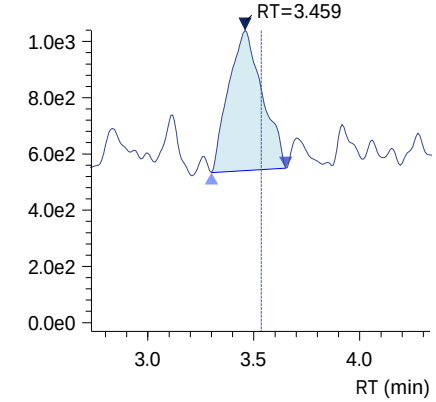
EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

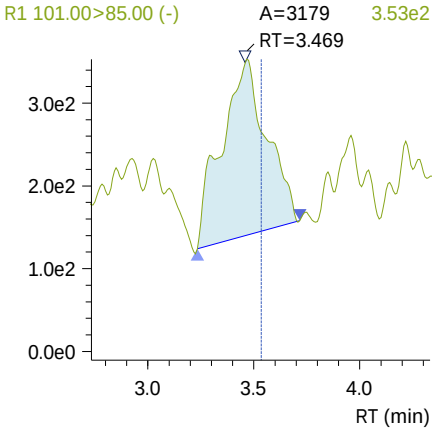
Perchlorate

Conc 0.1299
R#1 57.50 (34.10)

Q 99.00>83.00 (-) A=5529 1.04e3



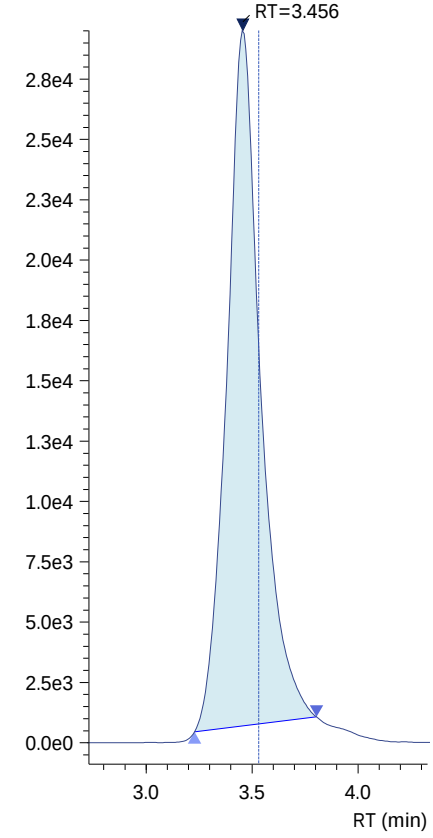
R1 101.00>85.00 (-) A=3179 3.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=321396 2.95e4



Insight Report

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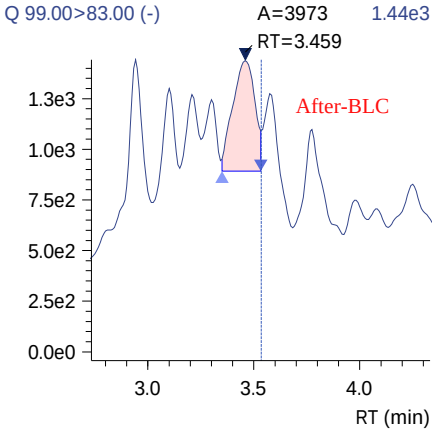
EQ2400268-04

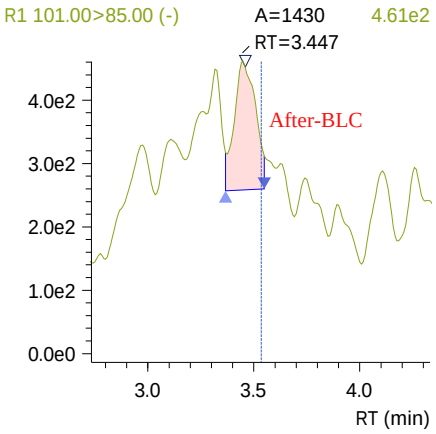
Sample ID: EQ2400268-04
Date Acquired: 5/31/2024 2:52:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-032.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.459	3973	328459	0.0913	ng/mL	101.00 >85.00	35.99	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	328459	328459	1.0000	ng/mL	----	----	

Perchlorate

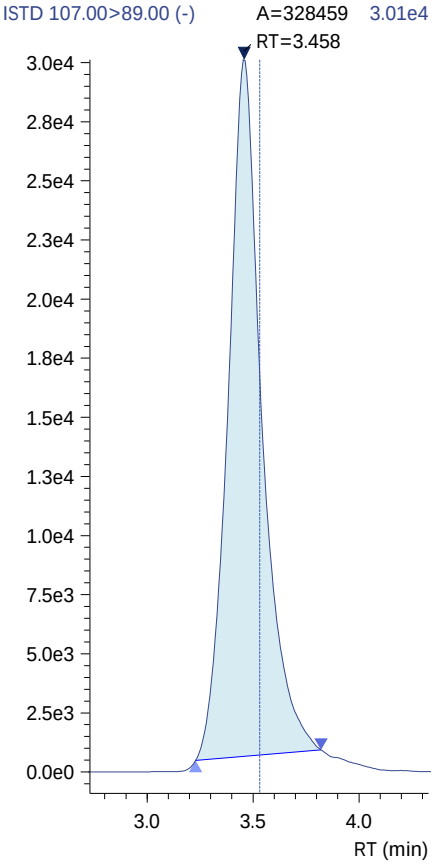
Conc 0.0913
R#1 35.99 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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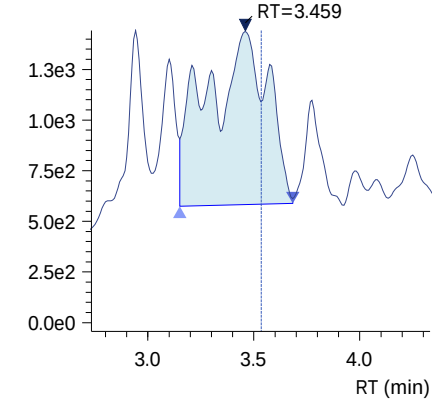
EQ2400268-04

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Acquired by: System Administrator
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Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

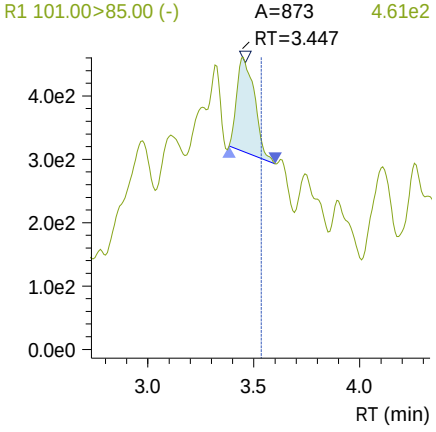
Perchlorate

Conc 0.3968
R#1 5.06 (34.10)

Q 99.00>83.00 (-) A=17263 1.44e3



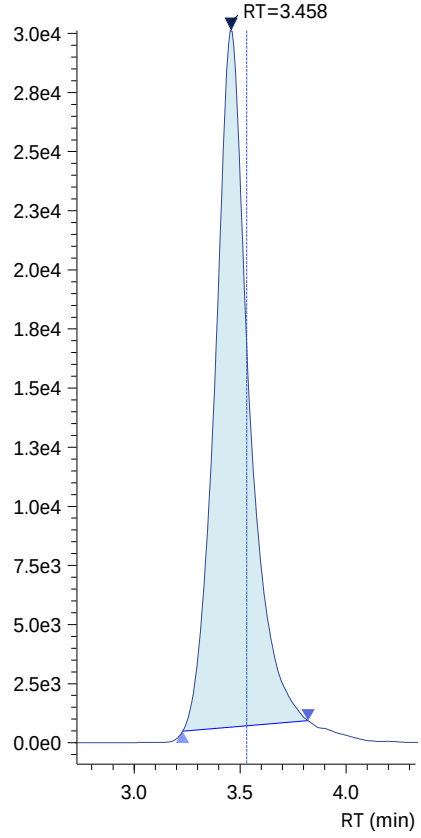
R1 101.00>85.00 (-) A=873 4.61e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=328459 3.01e4



Insight Report

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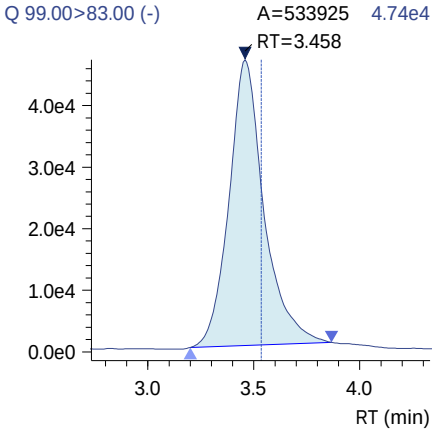
CCV

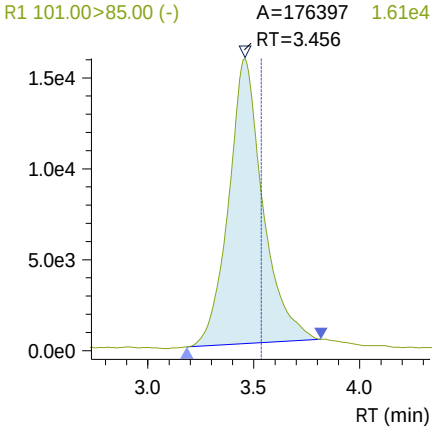
Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	533925	356549	11.3052	ng/mL	101.00 >85.00	33.04	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.455	356549	356549	1.0000	ng/mL	----	----	

Perchlorate

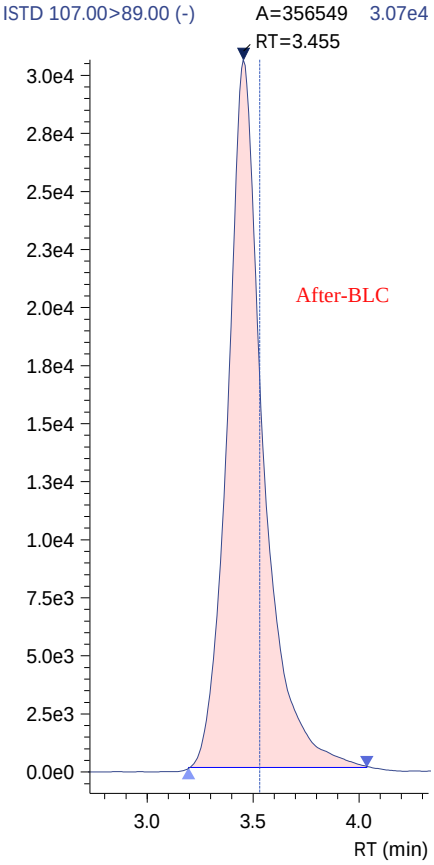
Conc 11.3052
R#1 33.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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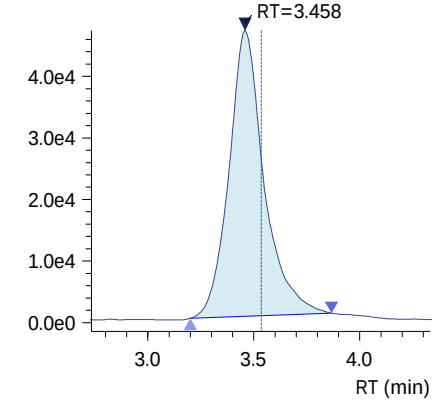
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

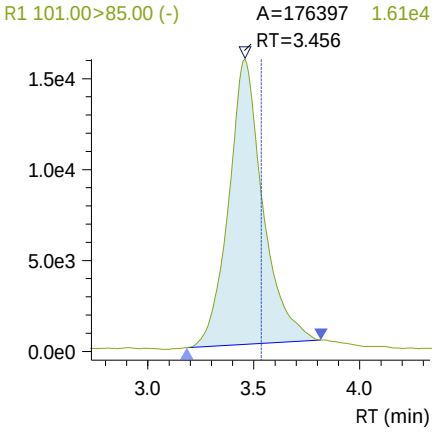
Perchlorate

Conc 12.1119
R#1 33.04 (34.10)

Q 99.00>83.00 (-) A=533925 4.74e4



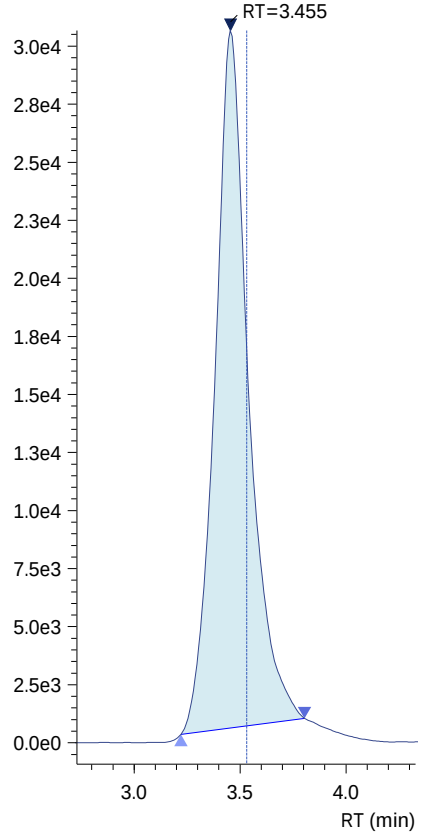
R1 101.00>85.00 (-) A=176397 1.61e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=332801 3.07e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

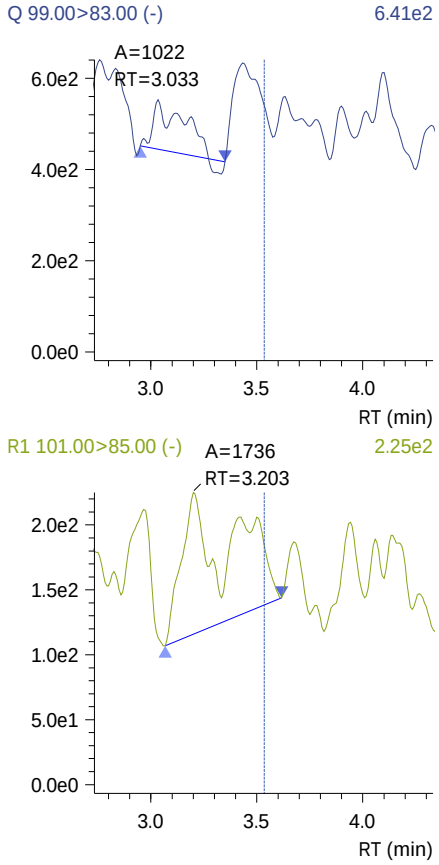
IB

Sample ID: IB
Date Acquired: 5/31/2024 3:25:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-038.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	364565	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	364565	364565	1.0000	ng/mL	----	----	

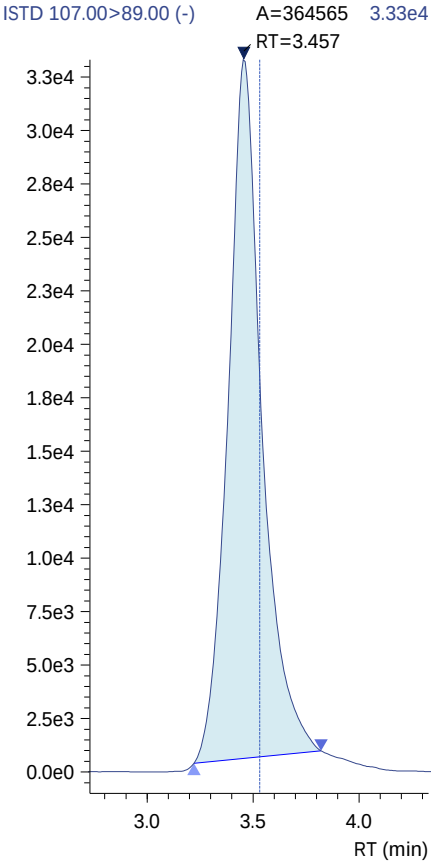
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

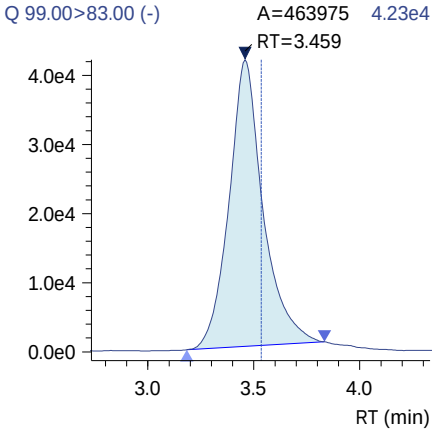
CCV

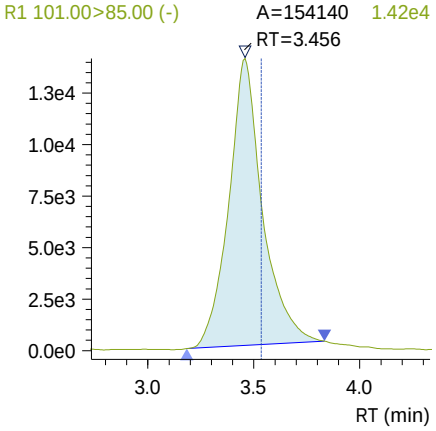
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Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	463975	315667	11.0964	ng/mL	101.00 >85.00	33.22	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.456	315667	315667	1.0000	ng/mL	----	----	

Perchlorate

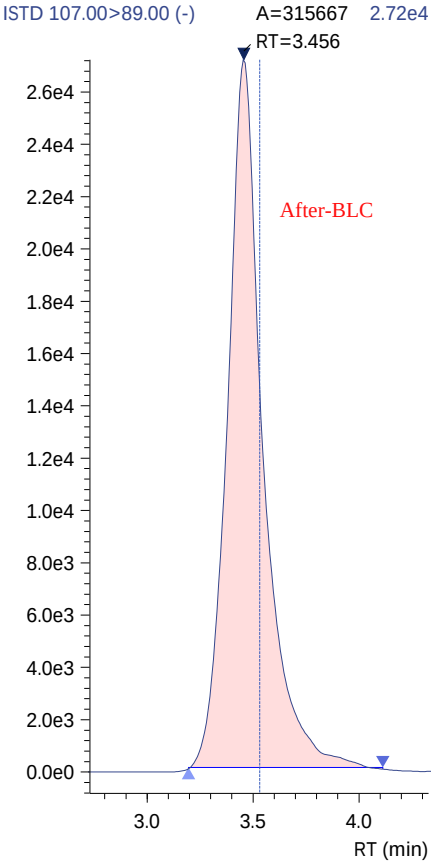
Conc 11.0964
R#1 33.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

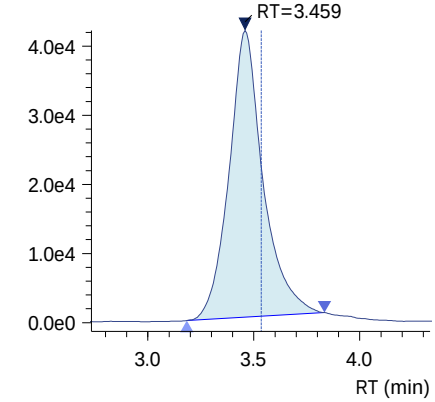
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

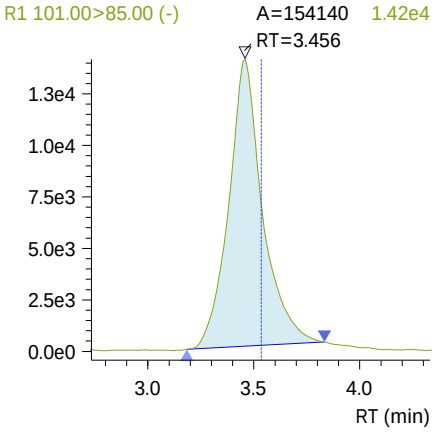
Perchlorate

Conc 11.8107
R#1 33.22 (34.10)

Q 99.00>83.00 (-) A=463975 4.23e4



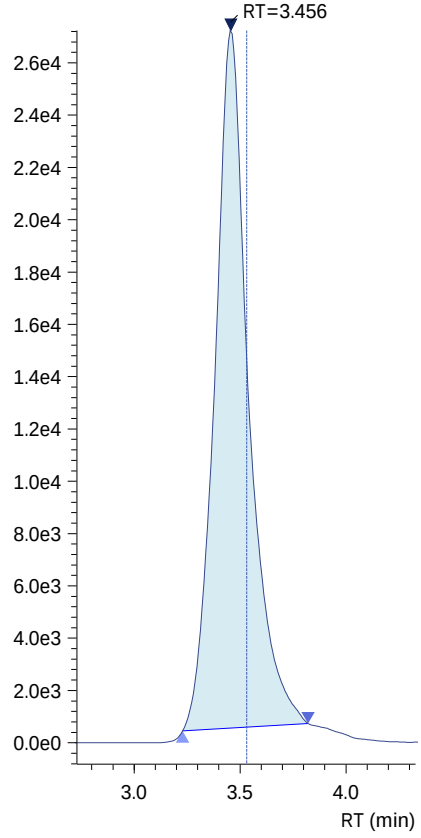
R1 101.00>85.00 (-) A=154140 1.42e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=296575 2.72e4



Insight Report

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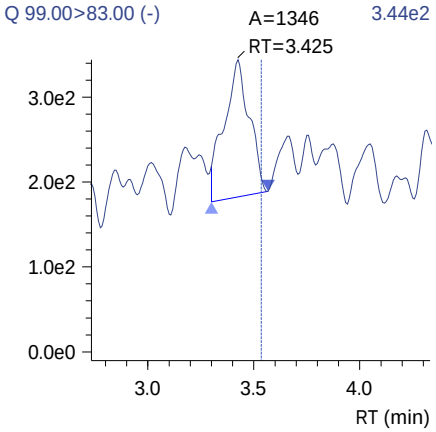
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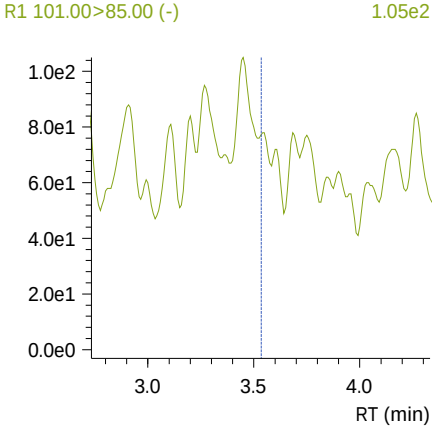
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Date Acquired: 5/31/2024 4:32:06 PM
Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	342445	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	342445	342445	1.0000	ng/mL	----	----	

Perchlorate

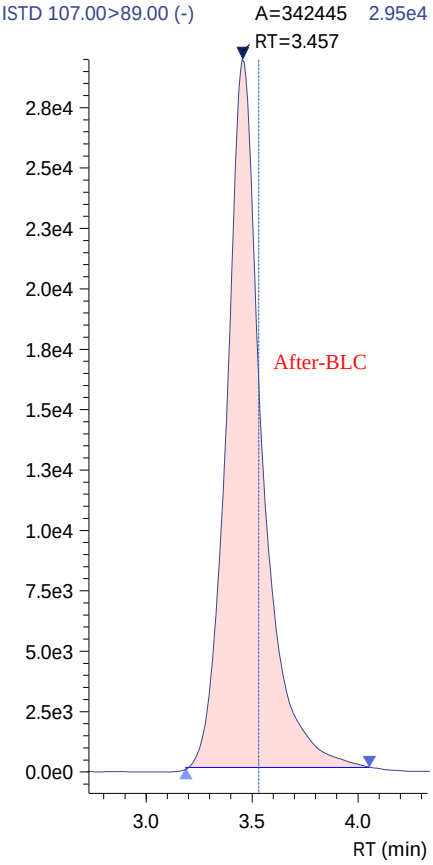
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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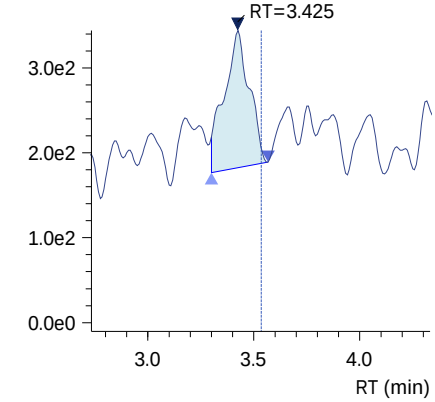
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-050.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

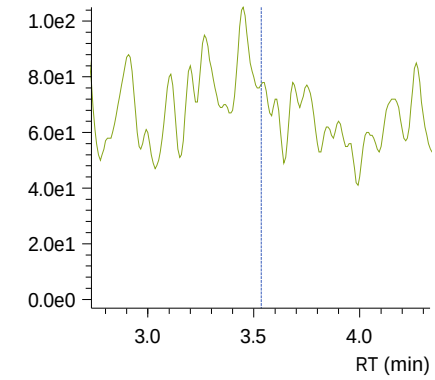
Perchlorate

Conc 0.0318
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1346 3.44e2



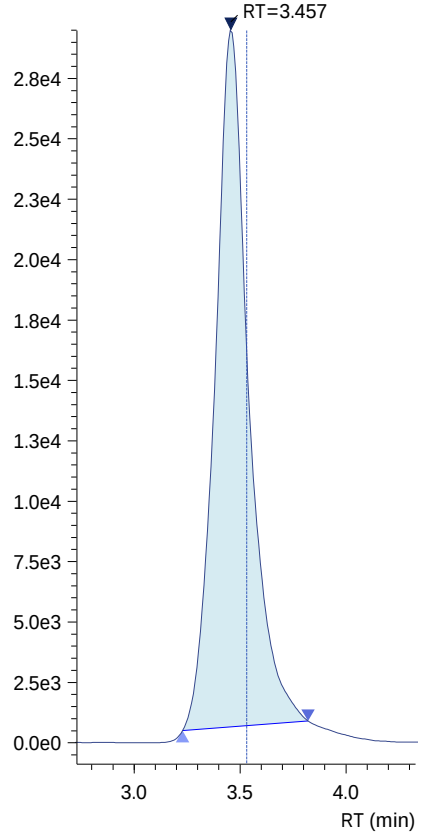
R1 101.00>85.00 (-) 1.05e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=319519 2.95e4



Insight Report

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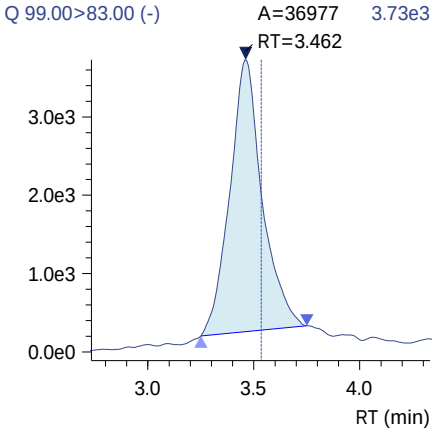
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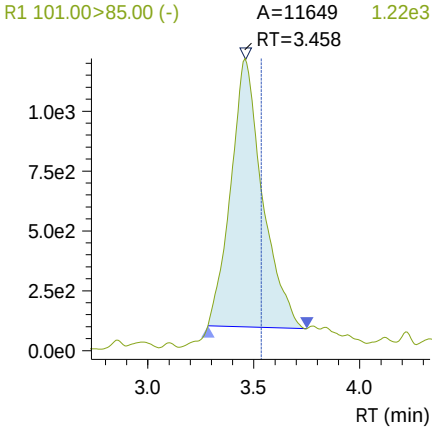
Sample ID: E2400569-01
Date Acquired: 5/31/2024 4:54:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-054.lcd
Vial: 47 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.462	36977	285656	0.9773	ng/mL	101.00 >85.00	31.50	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	285656	285656	1.0000	ng/mL	----	----	

Perchlorate

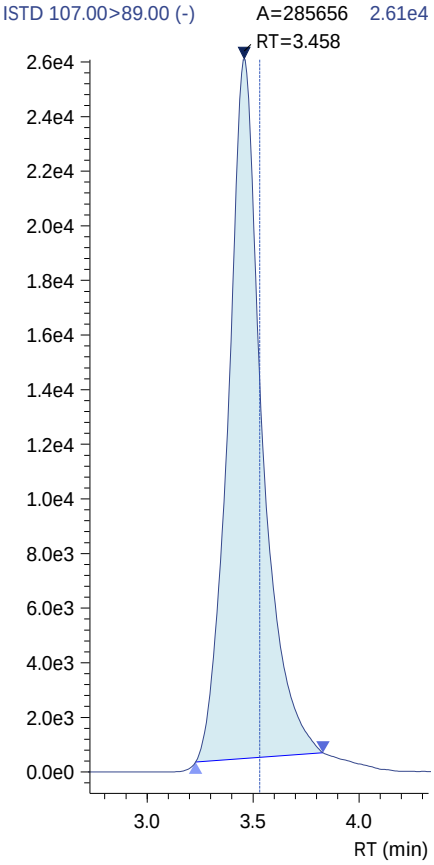
Conc 0.9773
R#1 31.50 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

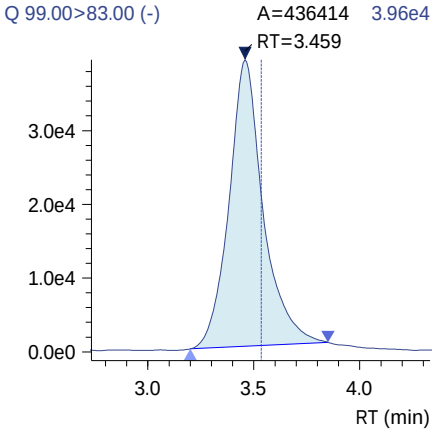
CCV

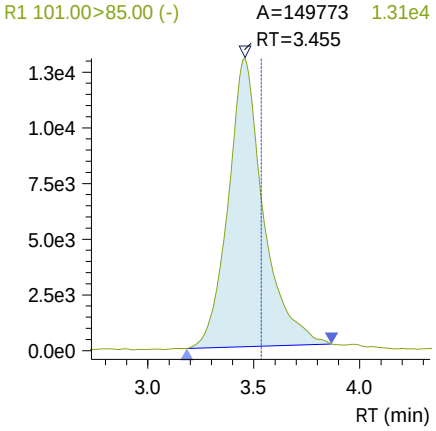
Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	436414	298706	11.0 299	ng/mL	101.00 >85.00	34.32	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	298706	298706	1.0000	ng/mL	----	----	

Perchlorate

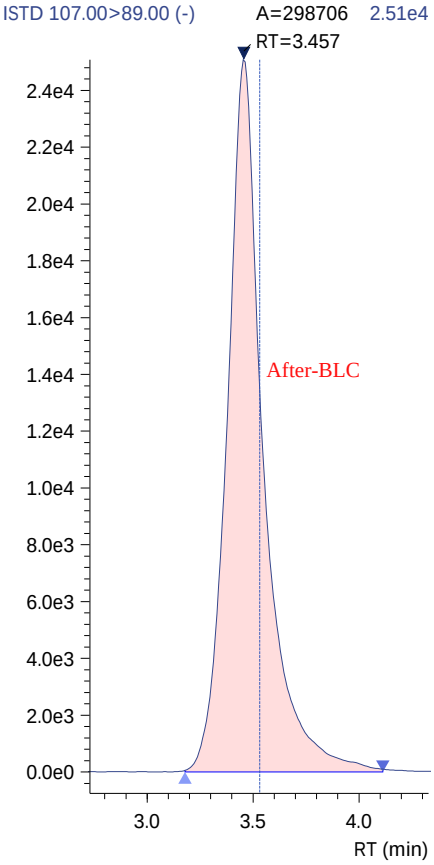
Conc 11.0299
R#1 34.32 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

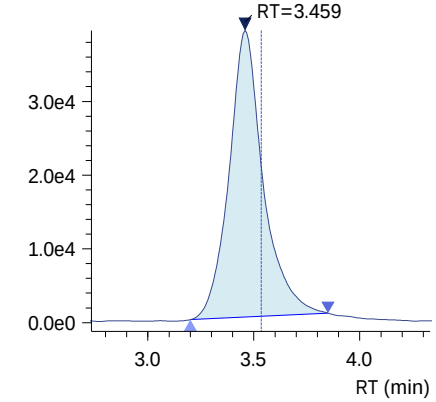
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

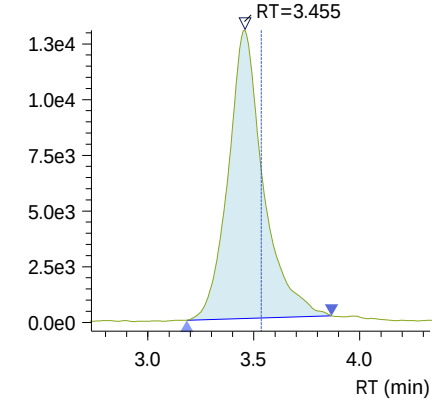
Perchlorate

Conc 12.3175
R#1 34.32 (34.10)

Q 99.00>83.00 (-) A=436414 3.96e4



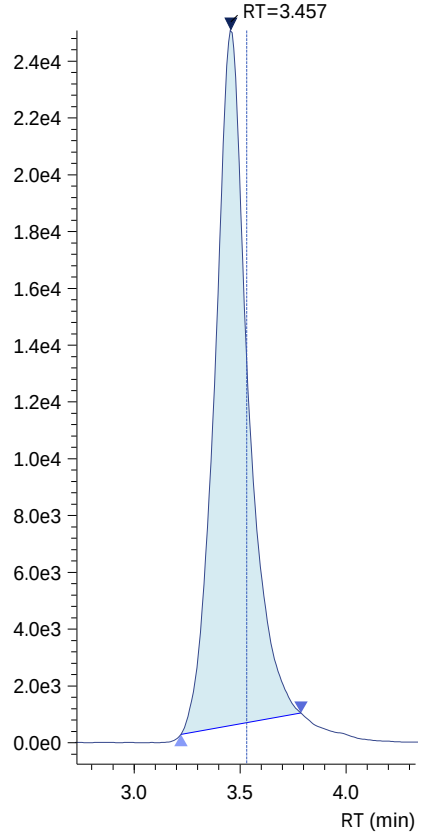
R1 101.00>85.00 (-) A=149773 1.31e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=267482 2.51e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

IB

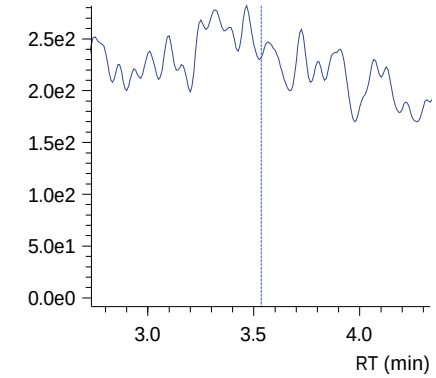
Sample ID: IB
Date Acquired: 5/31/2024 5:22:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-059.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	299832	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.455	299832	299832	1.0000	ng/mL	----	----	

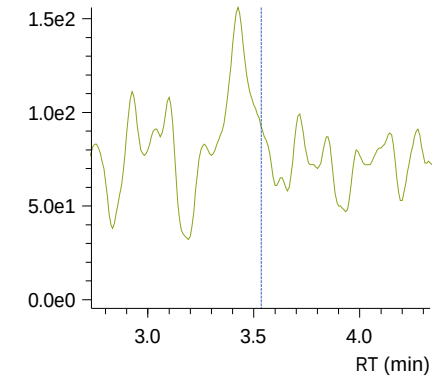
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.82e2



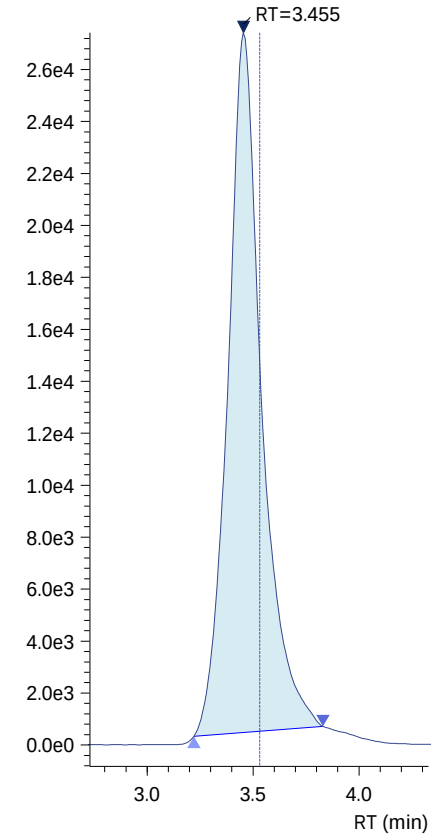
R1 101.00>85.00 (-) 1.56e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

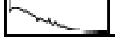
ISTD 107.00>89.00 (-) A=299832 2.74e4



HS24051276 Wetchem 9056_anions_W

ALS WO# HS24051276

Sequence: 052924
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RC1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RC2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RC3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RC4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RC5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RC6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RC8	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
	CCV1	REP	Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB	REP	Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	REP	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	REP	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051276-01	REP	Unknown	RB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051276-01DF20	REP	Unknown	RB5	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050839-01MS	REP	Unknown	RB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050839-01MSD	REP	Unknown	RC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV	REP	Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB	REP	Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052924
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	5/24/2024 3:05:55 PM -0
Anions Processing Method ISO		STD2	5.0	Finished	5/24/2024 3:11:46 PM -0
Anions Processing Method ISO		STD3	5.0	Finished	5/24/2024 3:17:37 PM -0
Anions Processing Method ISO		STD4	5.0	Finished	5/24/2024 3:23:27 PM -0
Anions Processing Method ISO		STD5	5.0	Finished	5/24/2024 3:29:18 PM -0
Anions Processing Method ISO		STD6	5.0	Finished	5/24/2024 3:35:09 PM -0
Anions Processing Method ISO		ICV	5.0	Finished	5/24/2024 3:41:00 PM -0
Anions Processing Method ISO		ICB	5.0	Finished	5/24/2024 3:58:32 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/29/2024 8:21:06 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 8:38:54 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/29/2024 10:01:00 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 10:24:37 AM -
Anions Processing Method ISO		MBLK	5.0	Finished	5/29/2024 10:30:26 AM -
Anions Processing Method ISO		LCS	5.0	Finished	5/29/2024 10:36:15 AM -
Anions Processing Method ISO		HS24051276-01	5.0	Finished	5/29/2024 10:59:41 AM -
Anions Processing Method ISO		HS24051276-01DF20	5.0	Finished	5/29/2024 11:05:30 AM -
Anions Processing Method ISO		HS24050839-01MS	5.0	Finished	5/29/2024 11:22:57 AM -
Anions Processing Method ISO		HS24050839-01MSD	5.0	Finished	5/29/2024 11:28:45 AM -
Anions Processing Method ISO		CCV	5.0	Finished	5/29/2024 11:40:46 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 11:52:46 AM -

Sequence: 052924
Injection #6: STD6

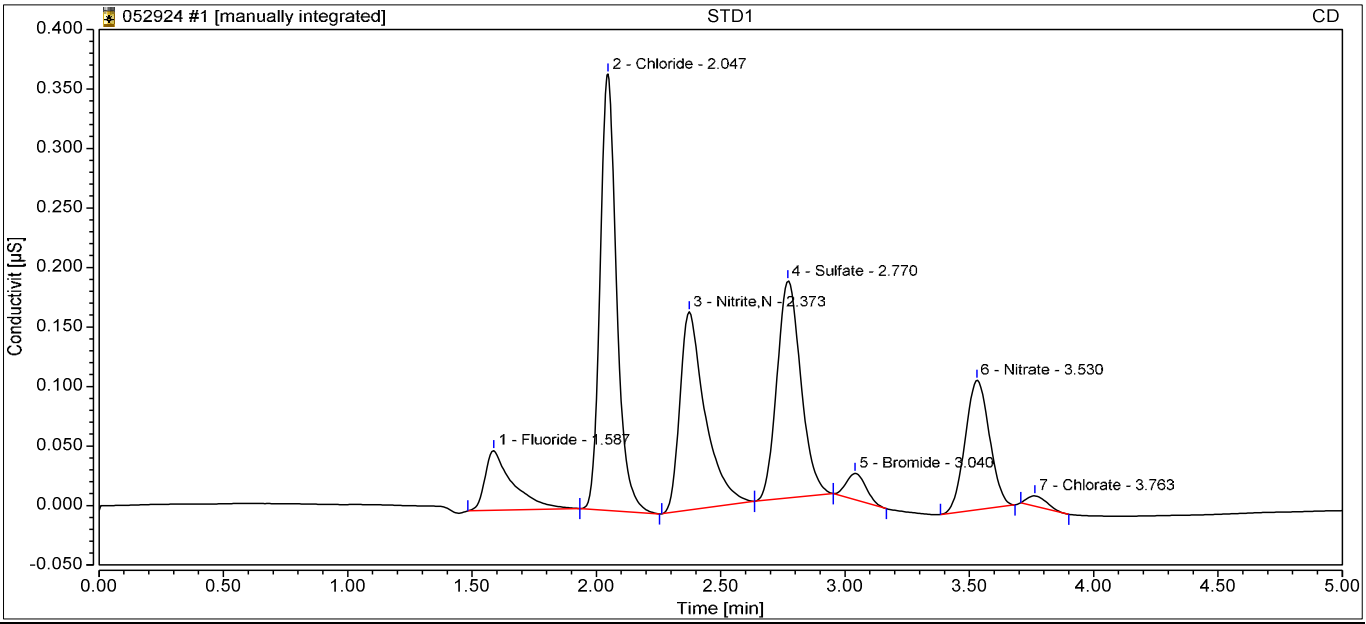
Calibration

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***	***Quad, WithOffset, 1/A***	***Area***	***6***	***47.8211***	***0.99525***	***-0.0209***	***0.1871***	***0.0010***
2	Chloride	Lin, WithOffset, 1/A	Area	6	14.1093	0.99928	-0.0600	0.1553	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	12.6612	0.99942	-0.0184	0.3400	-0.0034
4	Sulfate	Quad, WithOffset, 1/A	Area	6	13.5125	0.99951	-0.0367	0.1006	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.1870	0.99969	-0.0027	0.0421	0.0005
6	Nitrate	Lin, WithOffset, 1/A	Area	6	20.7181	0.99856	-0.0313	0.3430	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	24.4785	0.99856	-0.0031	0.0317	0.0000
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**47.8211**	0.99969			
Minimum					11.1870	**0.99525**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:05**	*Sample Weight:*	**1.0000**

Run Time:

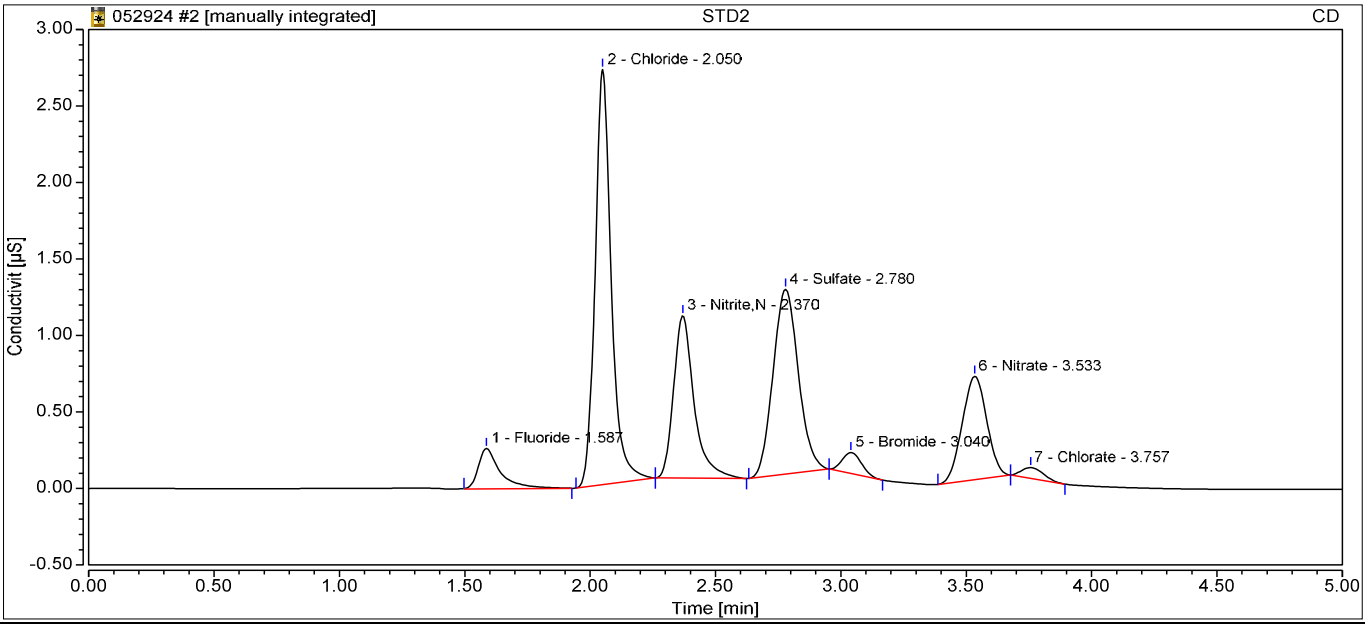


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB*	0.006	0.1461	0.1461	1.0000
2	2.05	Chloride	BMB	0.028	0.5685	0.5685	1.0000
3	2.37	Nitrite,N	BMB	0.020	0.1119	0.1119	1.0000
4	2.77	Sulfate	BMB	0.020	0.5675	0.5675	1.0000
5	3.04	Bromide	BMB	0.002	0.1128	0.1128	1.0000
6	3.53	Nitrate	BMB	0.012	0.1274	0.1274	1.0000
7	3.76	Chlorate	BMB*	0.001	0.1238	0.1238	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.090**		**1.76**	

2	*STD2*		
Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RC2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:11**	*Sample Weight:*	**1.0000**

Run Time:



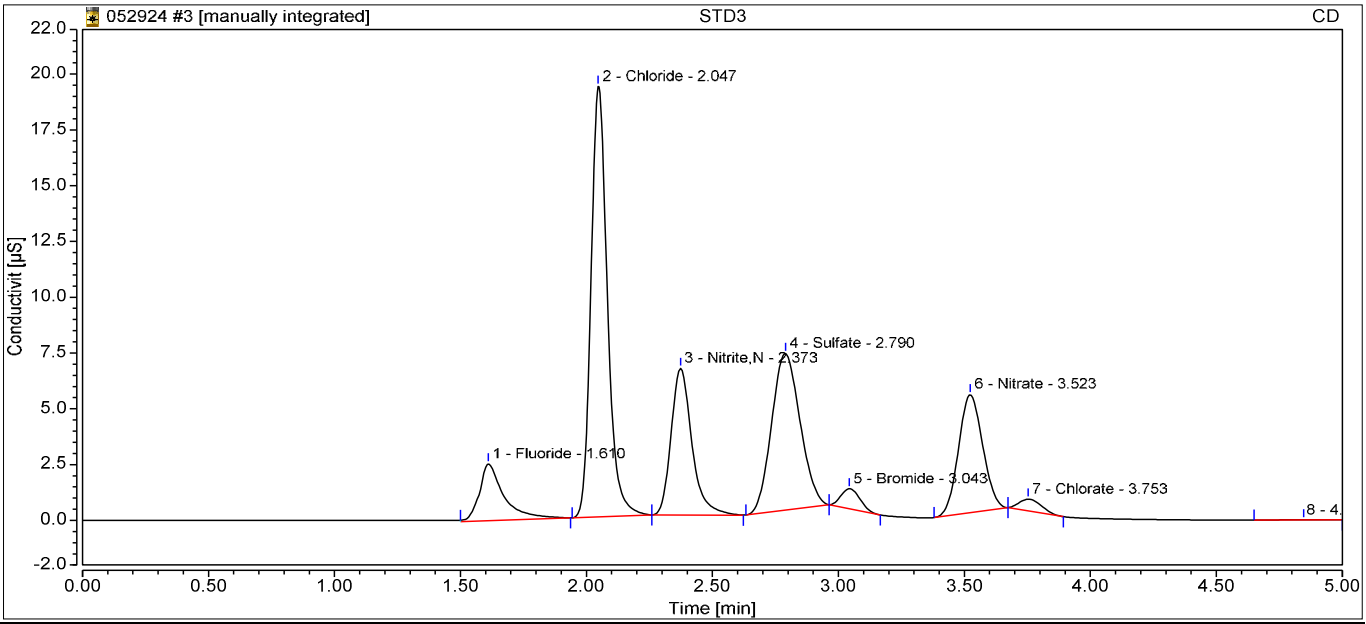
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	MB*	0.027	0.2547	0.2547	1.0000
2	2.05	Chloride	BMB	0.201	1.6835	1.6835	1.0000
3	2.37	Nitrite,N	BMB	0.101	0.3514	0.3514	1.0000
4	2.78	Sulfate	BMB	0.141	1.7687	1.7687	1.0000
5	3.04	Bromide	BMB	0.012	0.3564	0.3564	1.0000
6	3.53	Nitrate	BMB	0.076	0.3143	0.3143	1.0000
7	3.76	Chlorate	BMB	0.007	0.3242	0.3242	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.566**		**5.05**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RC3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:17**	*Sample Weight:*	**1.0000**

Run Time:



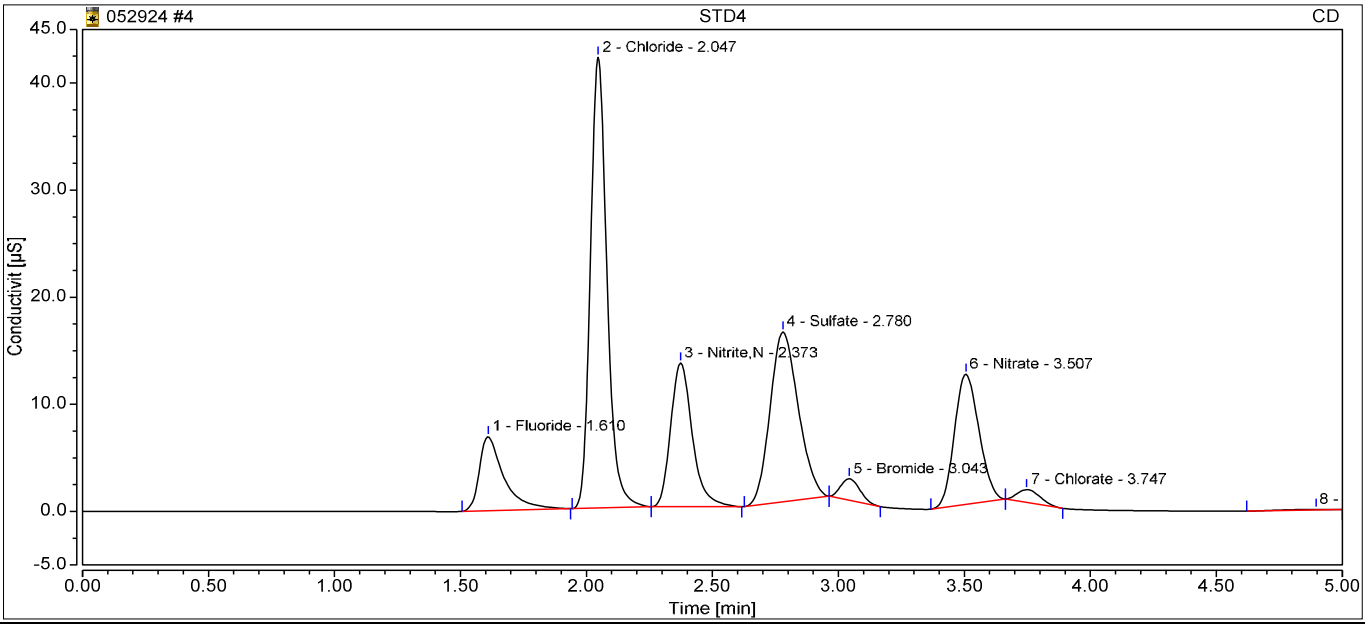
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	MB*	0.288	1.6344	1.6344	1.0000
2	2.05	Chloride	BMB	1.452	9.7390	9.7390	1.0000
3	2.37	Nitrite,N	BMB	0.628	1.9402	1.9402	1.0000
4	2.79	Sulfate	BMB	0.919	9.4564	9.4564	1.0000
5	3.04	Bromide	BMB	0.079	1.9074	1.9074	1.0000
6	3.52	Nitrate	BMB	0.588	1.8050	1.8050	1.0000
7	3.75	Chlorate	BMB	0.054	1.8157	1.8157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.008**		**28.30**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RC4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:23**	*Sample Weight:*	**1.0000**

Run Time:

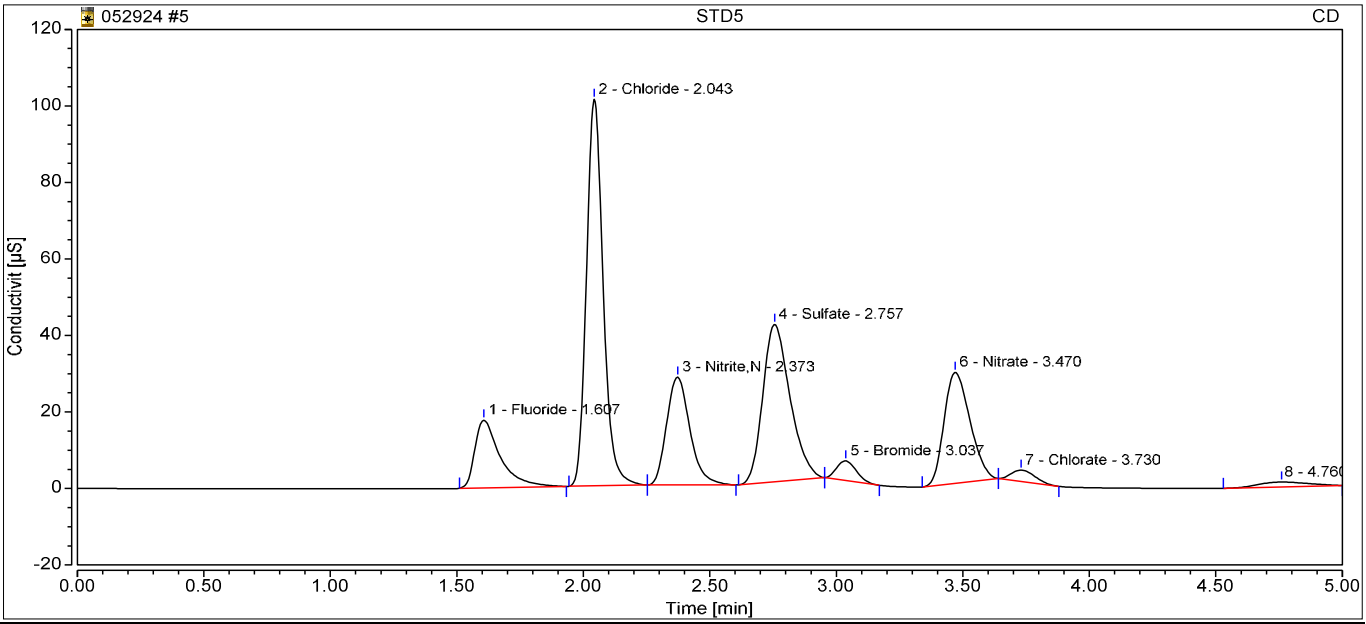


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	0.779	4.1786	4.1786	1.0000
2	2.05	Chloride	BMB	3.198	20.9870	20.9870	1.0000
3	2.37	Nitrite,N	BMB	1.336	4.1573	4.1573	1.0000
4	2.78	Sulfate	BMB	2.058	20.6315	20.6315	1.0000
5	3.04	Bromide	BMB	0.177	4.0924	4.0924	1.0000
6	3.51	Nitrate	BMB	1.374	4.0990	4.0990	1.0000
7	3.75	Chlorate	BMB	0.127	4.0823	4.0823	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.050**		**62.23**	

5 STD5			
Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RC5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:29**	*Sample Weight:*	**1.0000**

Run Time:



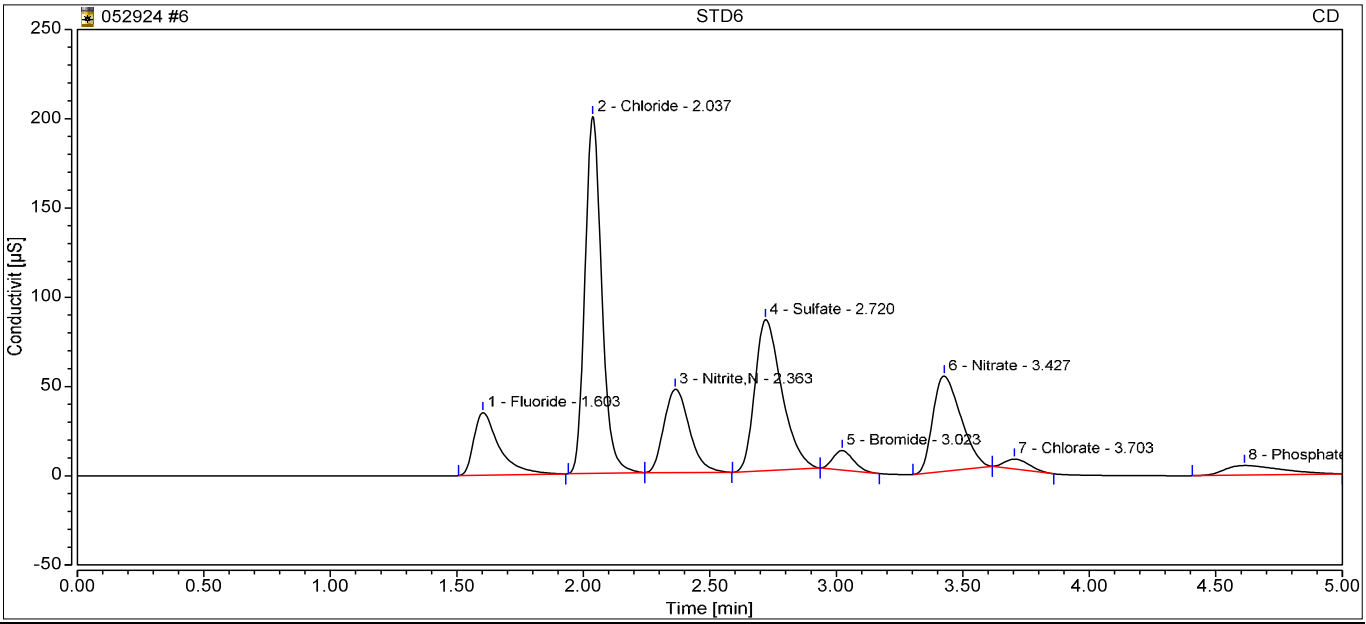
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.057	10.5101	10.5101	1.0000
2	2.04	Chloride	BMB	7.745	50.2710	50.2710	1.0000
3	2.37	Nitrite,N	BMB	3.023	9.9291	9.9291	1.0000
4	2.76	Sulfate	BMB	5.132	50.2668	50.2668	1.0000
5	3.04	Bromide	BMB	0.468	10.0602	10.0602	1.0000
6	3.47	Nitrate	BMB	3.437	10.1141	10.1141	1.0000
7	3.73	Chlorate	BMB	0.324	10.2999	10.2999	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.186**		**151.45**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:35**	*Sample Weight:*	**1.0000**

Run Time:



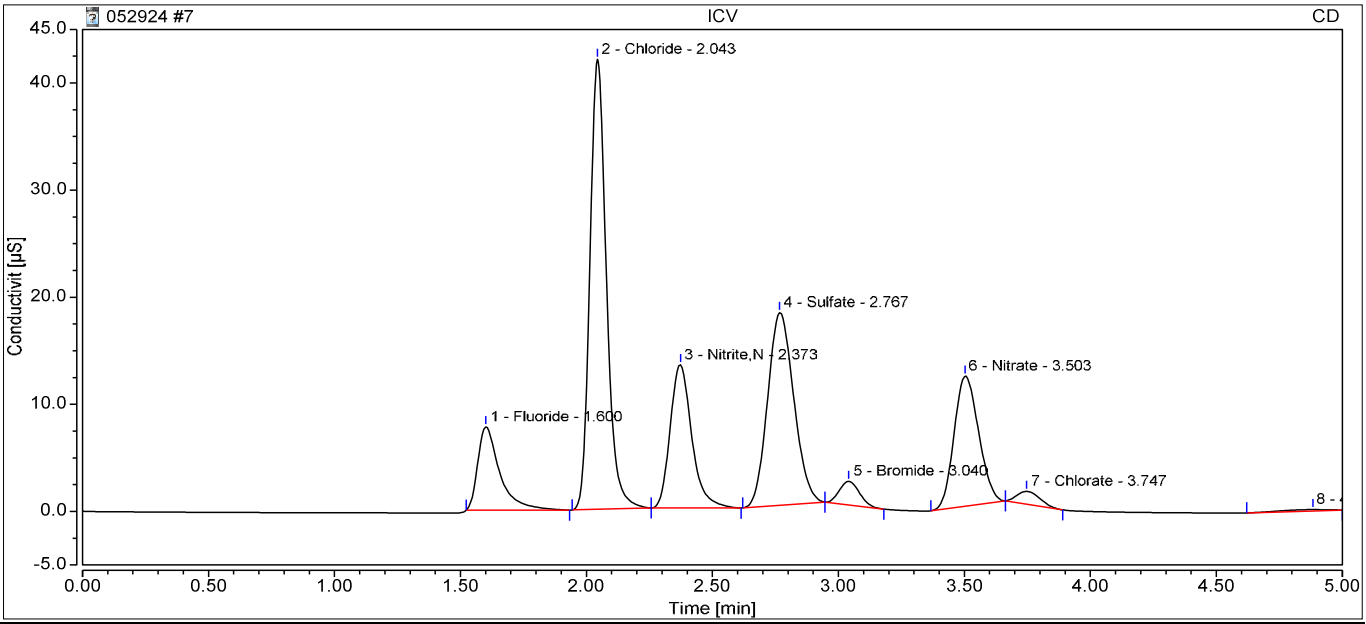
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	4.072	19.7690	19.7690	1.0000
2	2.04	Chloride	BMB	15.349	99.2510	99.2510	1.0000
3	2.36	Nitrite,N	BMB	5.427	20.0103	20.0103	1.0000
4	2.72	Sulfate	BMB	10.440	99.8080	99.8080	1.0000
5	3.02	Bromide	BMB	1.024	19.9678	19.9678	1.0000
6	3.43	Nitrate	BMB	6.842	20.0403	20.0403	1.0000
7	3.70	Chlorate	BMB	0.629	19.8540	19.8540	1.0000
8	4.61	Phosphate	BMB	1.398	n.a.	n.a.	1.0000
Total:			**0.000**	**45.182**		**298.70**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:41**	*Sample Weight:*	**1.0000**

Run Time:



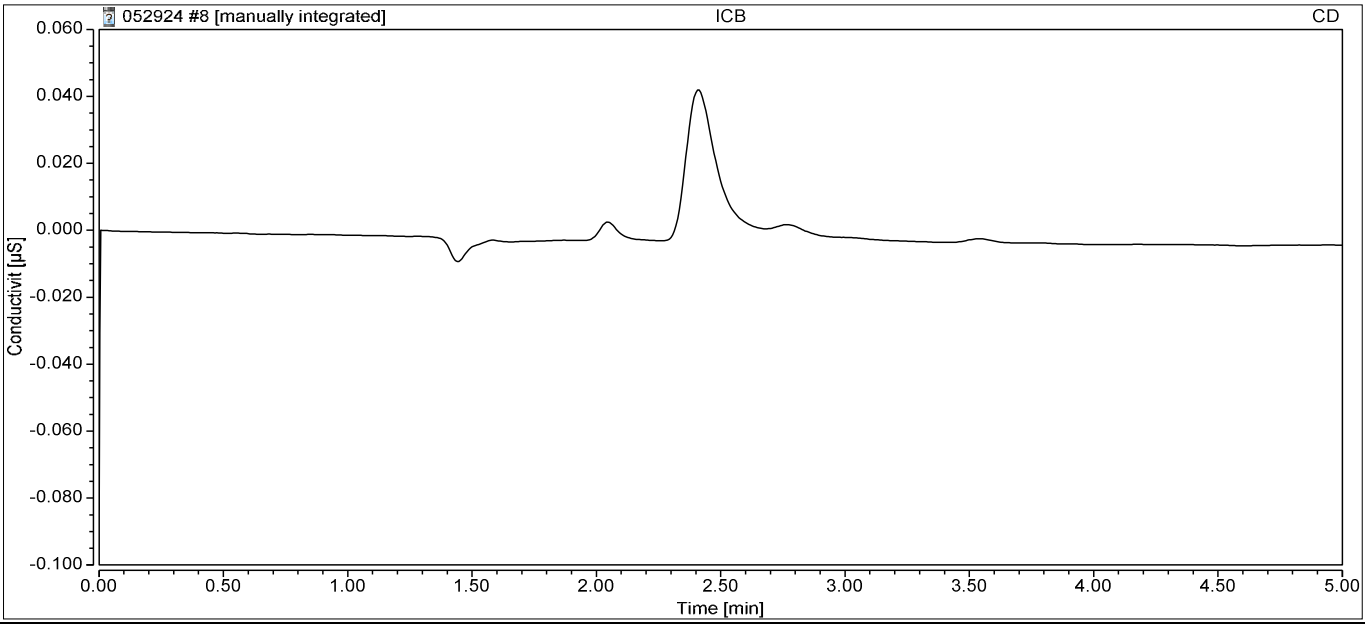
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.787	4.2226	4.2226	1.0000
2	2.04	Chloride	BMB	3.184	20.8964	20.8964	1.0000
3	2.37	Nitrite,N	BMB	1.328	4.1320	4.1320	1.0000
4	2.77	Sulfate	BMB	2.165	21.6763	21.6763	1.0000
5	3.04	Bromide	BMB	0.204	4.6731	4.6731	1.0000
6	3.50	Nitrate	BMB	1.373	4.0937	4.0937	1.0000
7	3.75	Chlorate	BMB	0.126	4.0795	4.0795	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.168**		**63.77**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:58**	*Sample Weight:*	**1.0000**

Run Time:

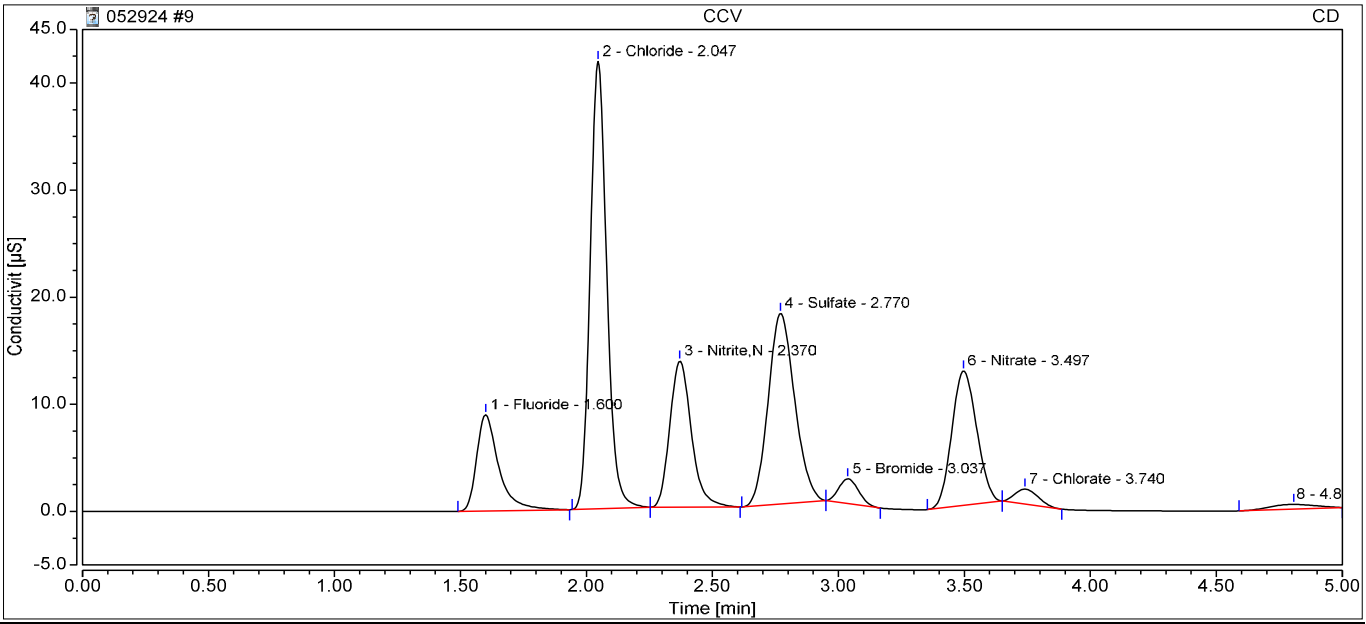


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

9 CCV			
Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 08:21**	*Sample Weight:*	**1.0000**

Run Time:



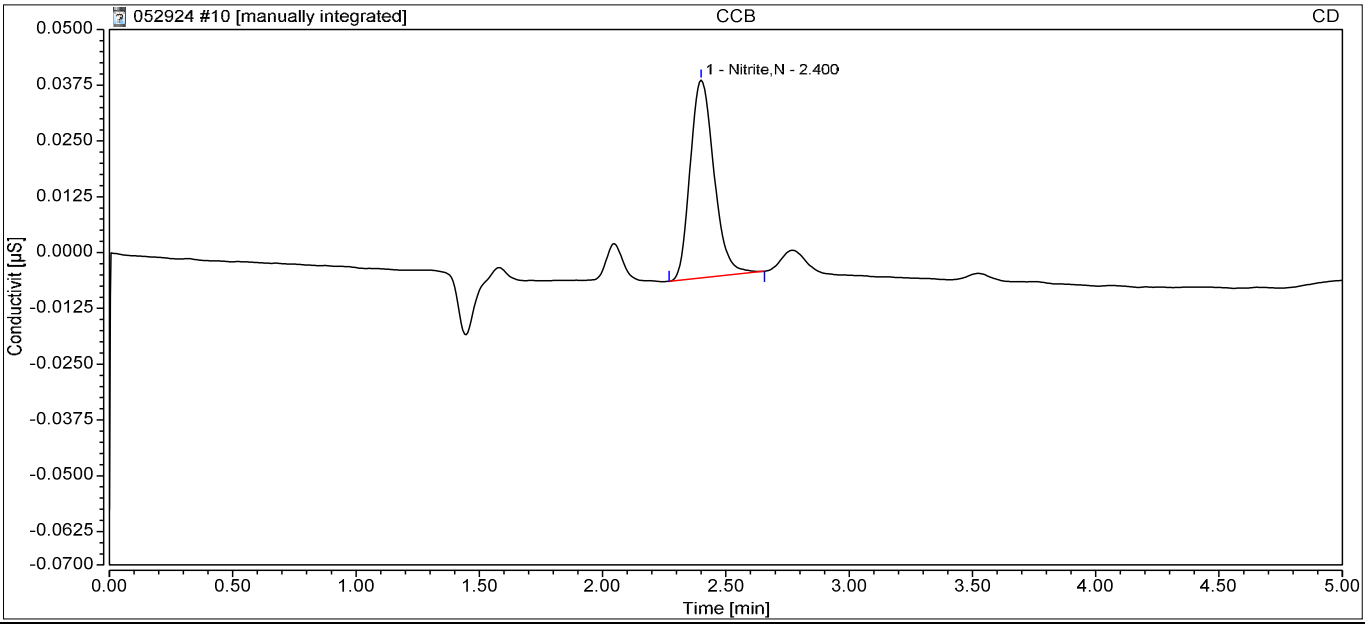
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.915	4.8749	4.8749	1.0000
2	2.05	Chloride	BMB	3.184	20.8975	20.8975	1.0000
3	2.37	Nitrite,N	BMB	1.358	4.2256	4.2256	1.0000
4	2.77	Sulfate	BMB	2.168	21.7079	21.7079	1.0000
5	3.04	Bromide	BMB	0.211	4.8086	4.8086	1.0000
6	3.50	Nitrate	BMB	1.436	4.2782	4.2782	1.0000
7	3.74	Chlorate	BMB	0.151	4.8522	4.8522	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.423**		**65.65**	

10 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 08:38**	*Sample Weight:*	**1.0000**

Run Time:

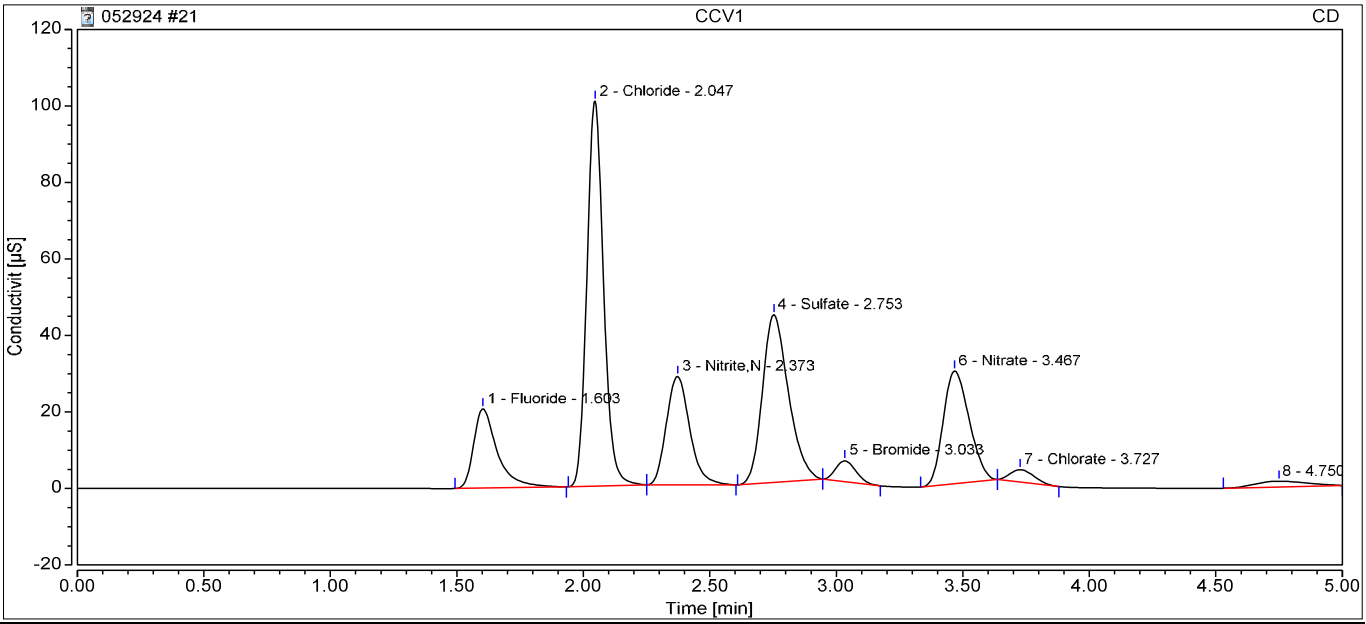


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.005	0.0689	0.0689	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.005**		**0.07**	

21 CCV1			
Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:01**	*Sample Weight:*	**1.0000**

Run Time:



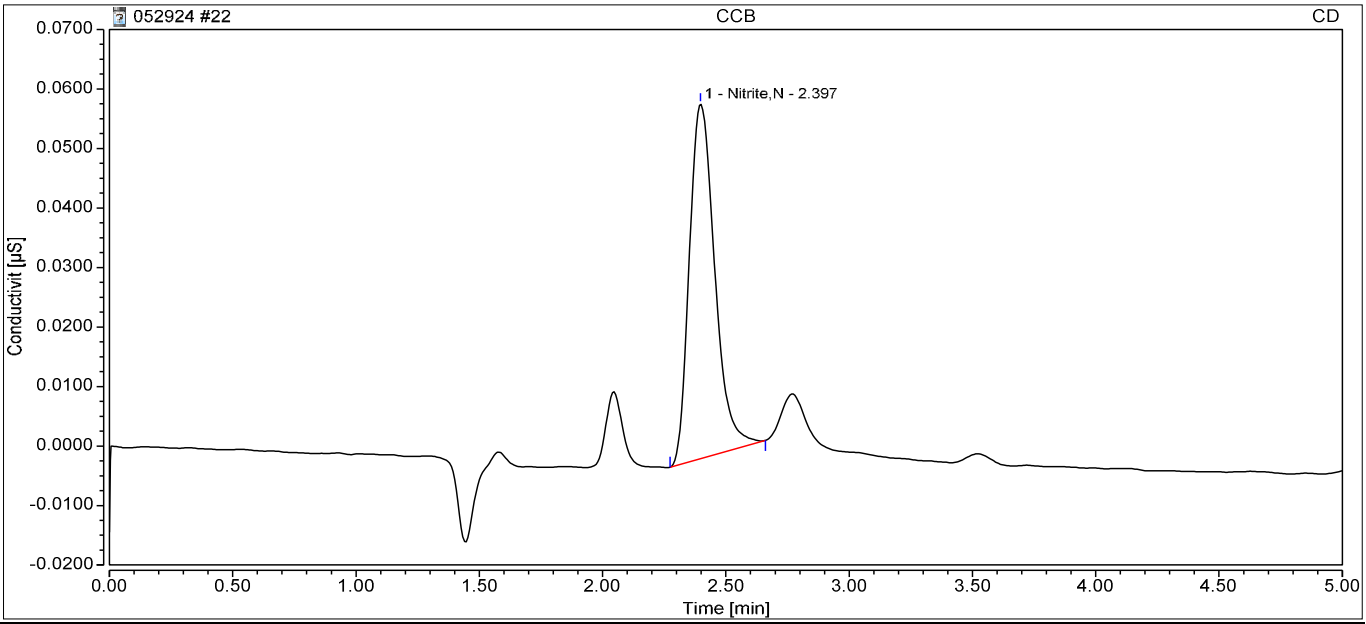
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.241	11.3880	11.3880	1.0000
2	2.05	Chloride	BMB	7.698	49.9701	49.9701	1.0000
3	2.37	Nitrite,N	BMB	3.031	9.9565	9.9565	1.0000
4	2.75	Sulfate	BMB	5.208	50.9959	50.9959	1.0000
5	3.03	Bromide	BMB	0.505	10.7630	10.7630	1.0000
6	3.47	Nitrate	BMB	3.504	10.3086	10.3086	1.0000
7	3.73	Chlorate	BMB	0.362	11.4667	11.4667	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.548**		**154.85**	

22 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:24**	*Sample Weight:*	**1.0000**

Run Time:



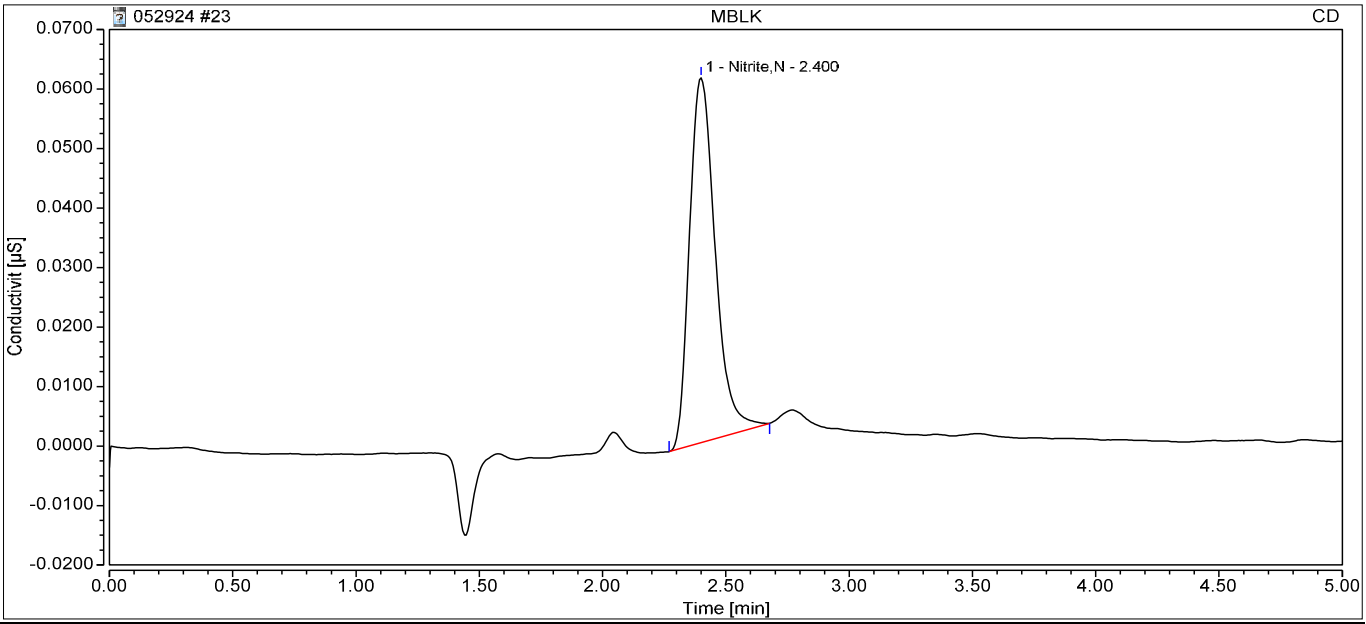
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.007	0.0753	0.0753	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.08**	

23 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:30**	*Sample Weight:*	**1.0000**

Run Time:



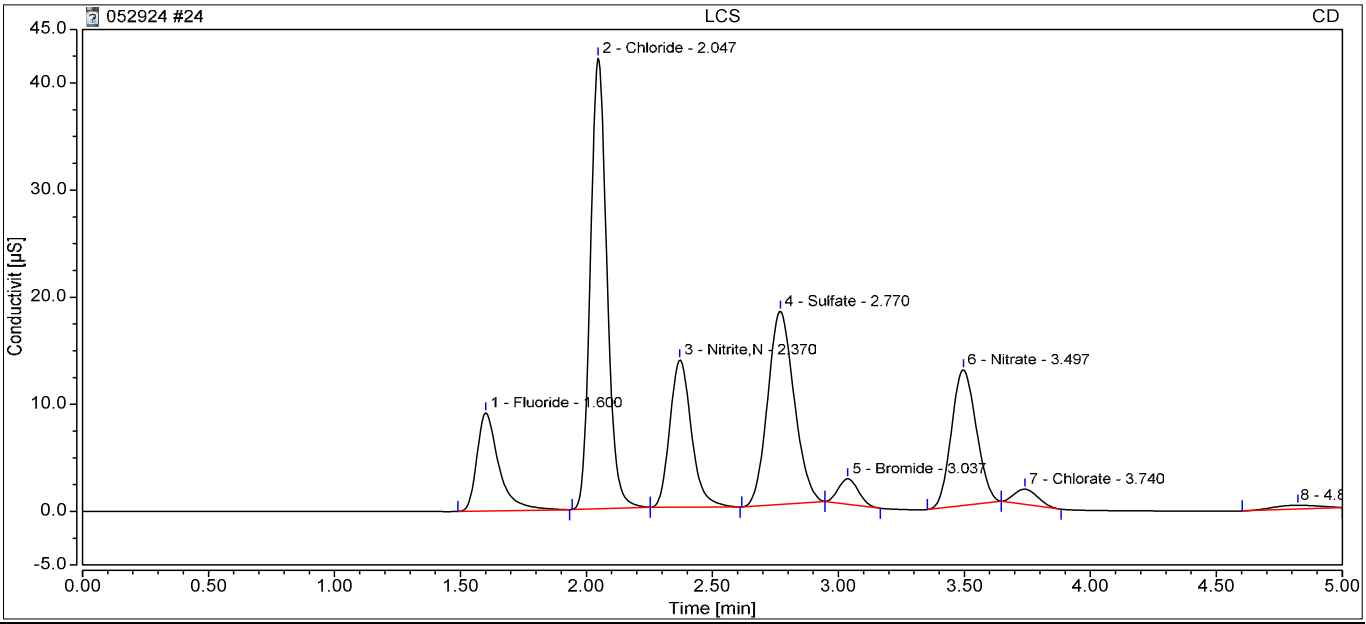
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.007	0.0762	0.0762	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.08**	

24 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:36**	*Sample Weight:*	**1.0000**

Run Time:



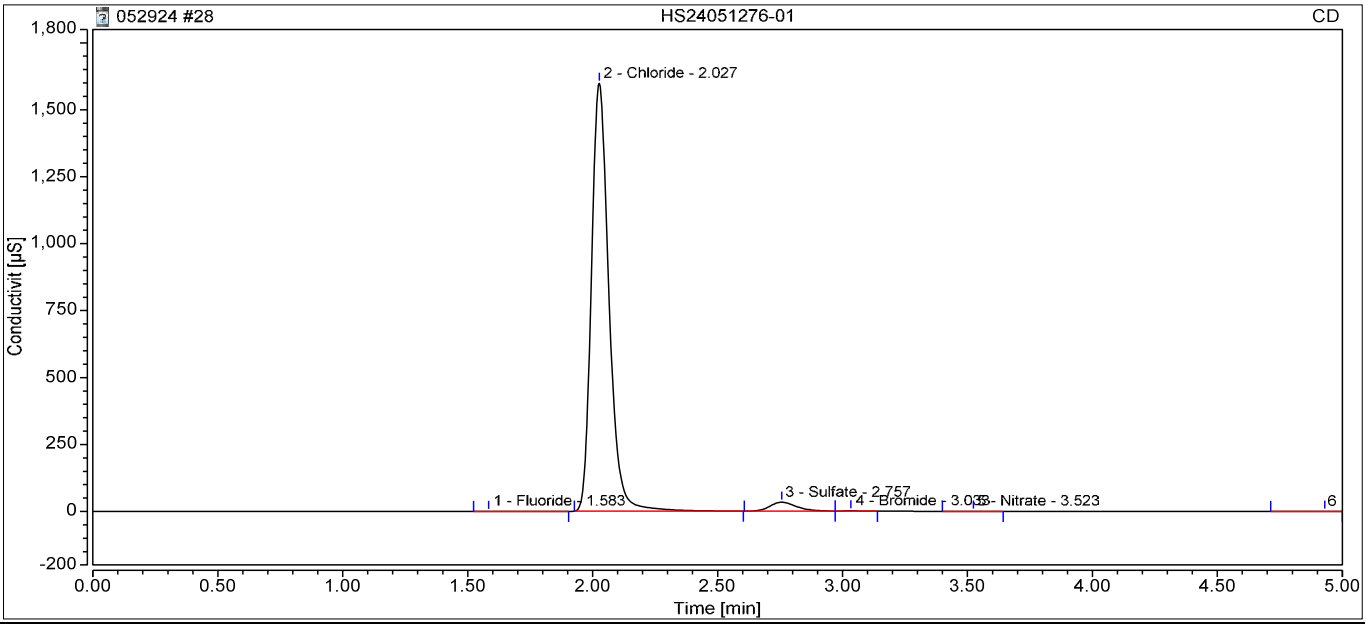
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.926	4.9276	4.9276	1.0000
2	2.05	Chloride	BMB	3.199	20.9929	20.9929	1.0000
3	2.37	Nitrite,N	BMB	1.367	4.2557	4.2557	1.0000
4	2.77	Sulfate	BMB	2.189	21.9087	21.9087	1.0000
5	3.04	Bromide	BMB	0.218	4.9585	4.9585	1.0000
6	3.50	Nitrate	BMB	1.447	4.3119	4.3119	1.0000
7	3.74	Chlorate	BMB	0.153	4.9240	4.9240	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.499**		**66.28**	

28 HS24051276-01

Sample Name:	**HS24051276-01**	*Injection Volume:*	**5.00**
Vial Number:	**RB4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:59**	*Sample Weight:*	**1.0000**

Run Time:



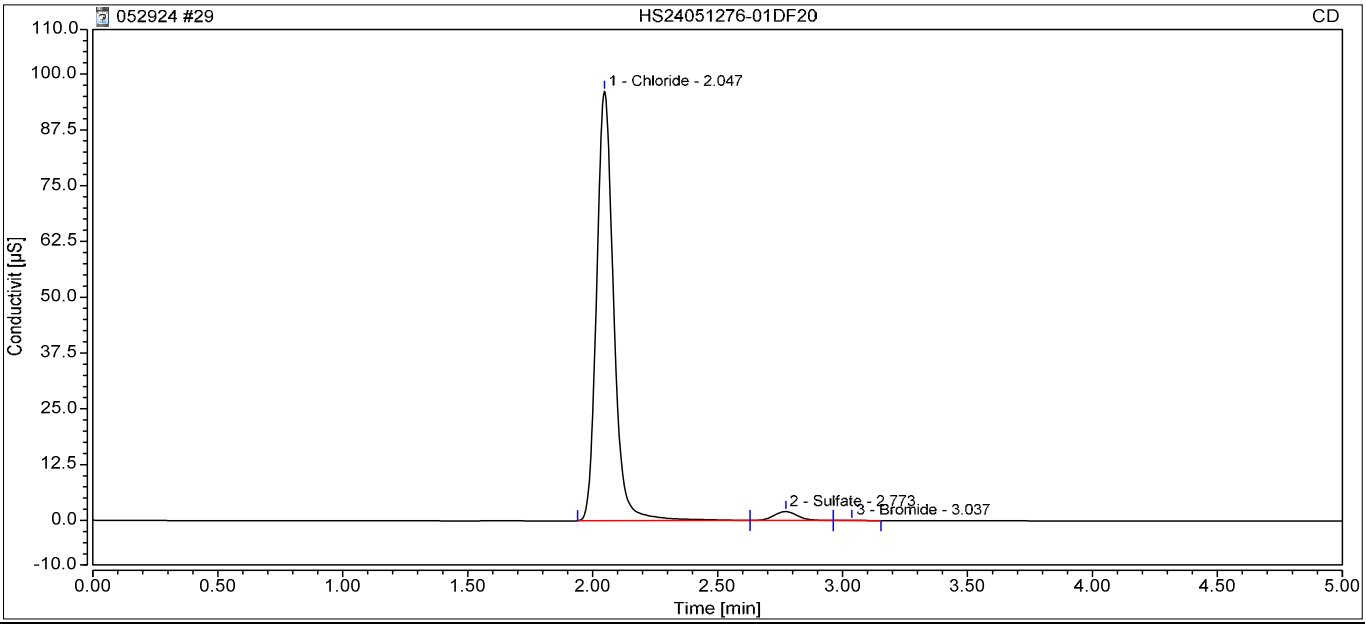
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.58	Fluoride	BMB	0.019	0.2123	0.2123	1.0000
2	2.03	Chloride	BMB	129.620	835.2904	835.2904	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.76	Sulfate	BMB	4.073	40.1432	40.1432	1.0000
4	3.03	Bromide	BMB	0.057	1.4032	1.4032	1.0000
5	3.52	Nitrate	BMB	0.002	0.0978	0.0978	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**133.771**		**877.15**	

29 HS24051276-01DF20

Sample Name:	**HS24051276-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**RB5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**05/29/2024 11:05**	*Sample Weight:*	**1.0000**

Run Time:

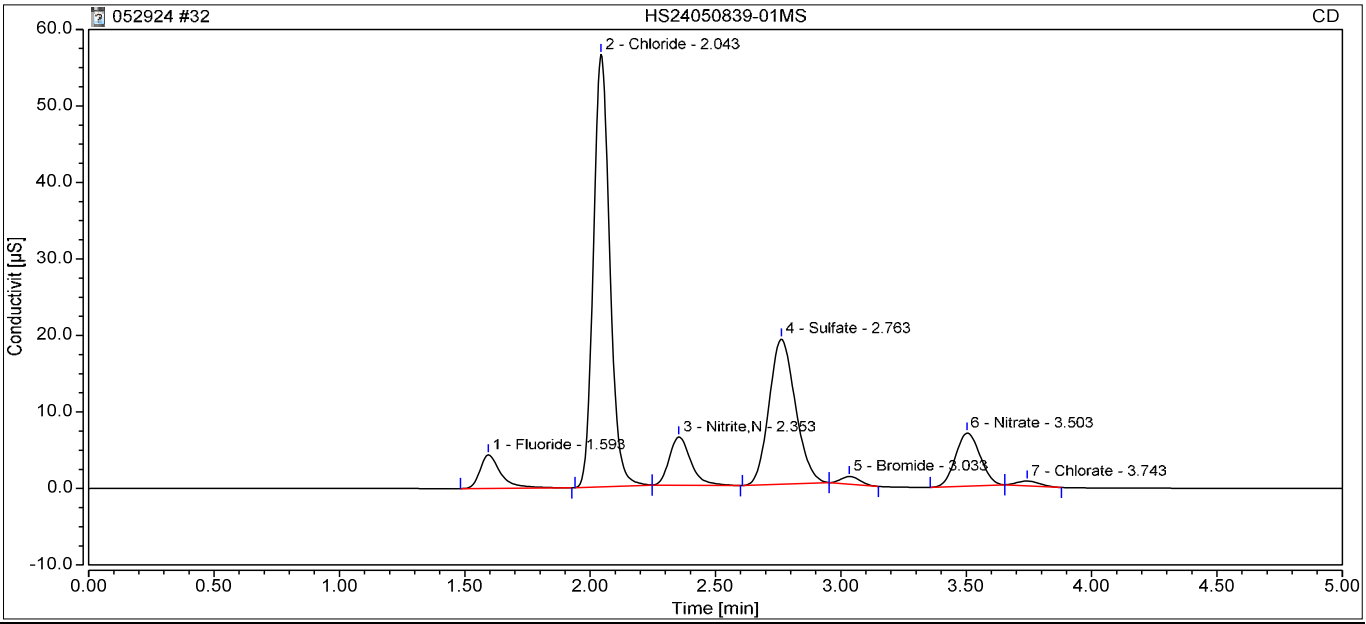


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.05	Chloride	BMB	7.607	49.3846	987.6924	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.77	Sulfate	BMB	0.218	2.5296	50.5928	20.0000
3	3.04	Bromide	BMB	0.003	0.1458	2.9156	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**7.829**		**1041.20**	

32	*HS24050839-01MS*		
Sample Name:	**HS24050839-01MS**	*Injection Volume:*	**5.00**
Vial Number:	**RB8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:22**	*Sample Weight:*	**1.0000**

Run Time:



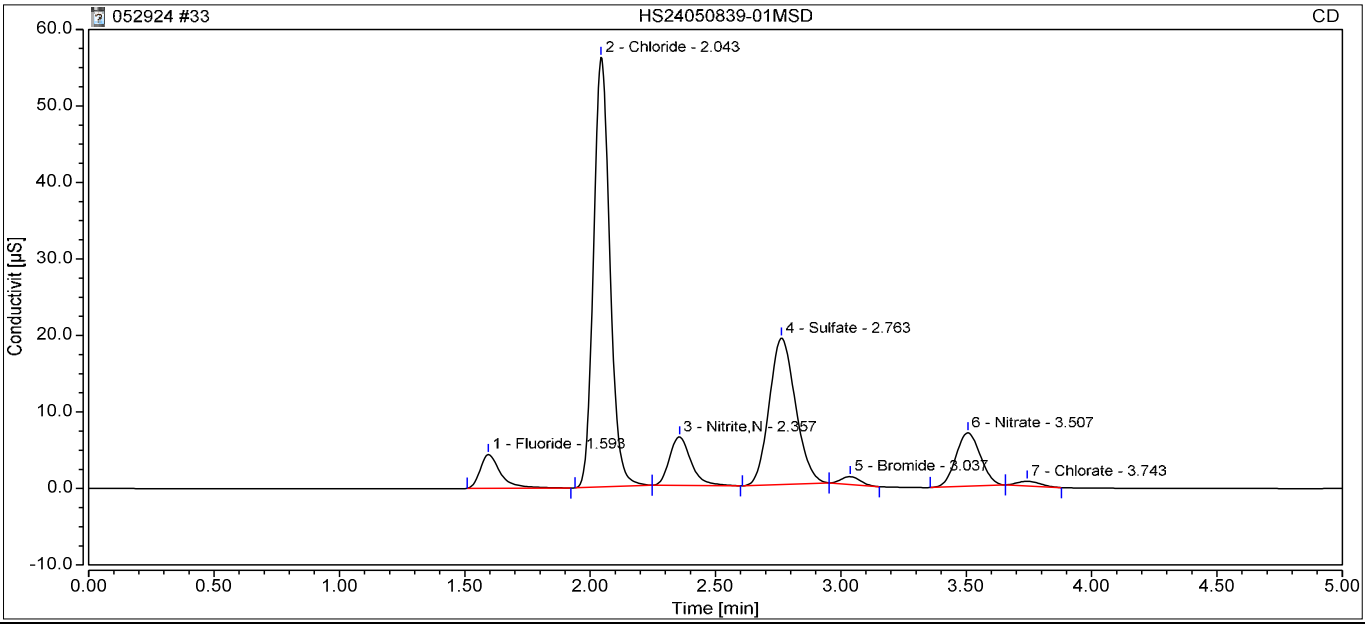
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.422	2.3400	2.3400	1.0000
2	2.04	Chloride	BMB	4.272	27.9020	27.9020	1.0000
3	2.35	Nitrite,N	BMB	0.626	1.9342	1.9342	1.0000
4	2.76	Sulfate	BMB	2.314	23.1298	23.1298	1.0000
5	3.03	Bromide	BMB	0.087	2.0714	2.0714	1.0000
6	3.50	Nitrate	BMB	0.787	2.3874	2.3874	1.0000
7	3.74	Chlorate	BMB	0.064	2.1226	2.1226	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.573**		**61.89**	

33 HS24050839-01MSD

Sample Name:	**HS24050839-01MSD**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:28**	*Sample Weight:*	**1.0000**

Run Time:



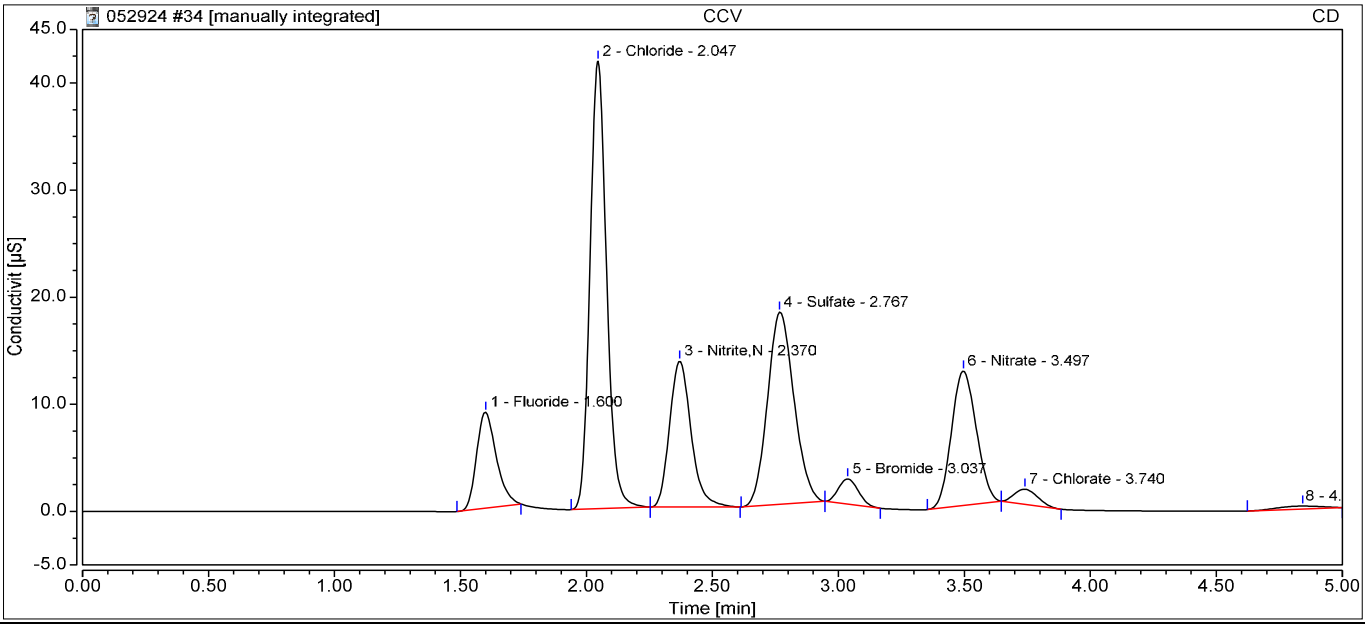
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.413	2.2922	2.2922	1.0000
2	2.04	Chloride	BMB	4.245	27.7313	27.7313	1.0000
3	2.36	Nitrite,N	BMB	0.630	1.9443	1.9443	1.0000
4	2.76	Sulfate	BMB	2.326	23.2468	23.2468	1.0000
5	3.04	Bromide	BMB	0.088	2.1145	2.1145	1.0000
6	3.51	Nitrate	BMB	0.792	2.4009	2.4009	1.0000
7	3.74	Chlorate	BMB	0.064	2.1293	2.1293	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.559**		**61.86**	

34 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:40**	*Sample Weight:*	**1.0000**

Run Time:



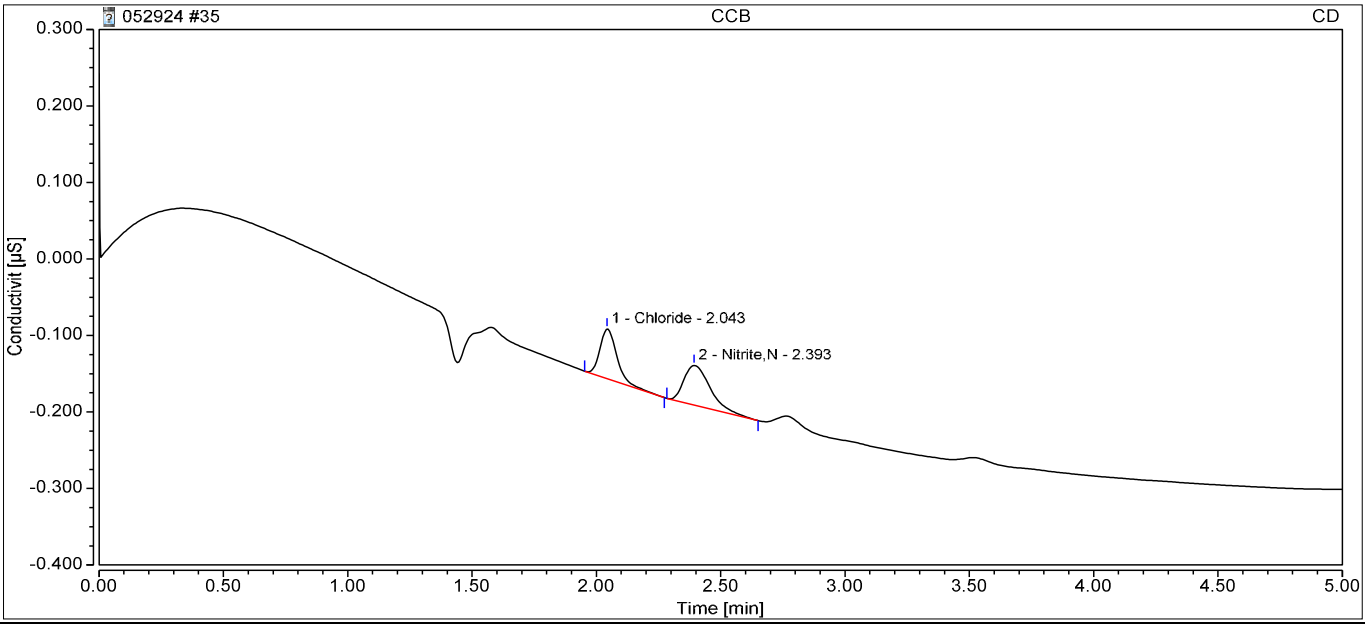
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.813	4.3562	4.3562	1.0000
2	2.05	Chloride	BMB	3.184	20.8922	20.8922	1.0000
3	2.37	Nitrite,N	BMB	1.353	4.2118	4.2118	1.0000
4	2.77	Sulfate	BMB	2.181	21.8310	21.8310	1.0000
5	3.04	Bromide	BMB	0.216	4.9230	4.9230	1.0000
6	3.50	Nitrate	BMB	1.432	4.2663	4.2663	1.0000
7	3.74	Chlorate	BMB	0.152	4.8778	4.8778	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.331**		**65.36**	

35 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:52**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.005	0.4195	0.4195	1.0000
2	2.39	Nitrite,N	BMB	0.006	0.0731	0.0731	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.012**		**0.49**	

HS24051276 Wetchem COD

ALS WO# HS24051276

ALS Laboratory Group **COD Analysis** **Logbook# 32513**

Method: HACH 8000 (EPA 410.4)		Date: 5-29-24		Low COD–420nm		*Analyst:*	
SOP #: HS-WC025		Time: 16:30		High COD–620nm		TH	
WO # / SX #	Bottle #	Init Sample Vol (mL)	Prep Final Volume (mL)	Dilution Factor	Init Conc. (mg/L)	Final Conc. (mg/L)	Comments
CCV50		2	2	1	50		
MBLK					0		
LCS					101		
LCSD					100		
LOQ					15		
HS2405084-01					6		
-01MS					55		
-01MSD					57		
HS2405252-01					14		
HS2405252-04					13		
HS2405258-01					21		
CCV100		2	2	1	99		
HS2405084-04				5	95		
HS2405084-04				5	91		
HS2405087-01				1	2		
HS2405224-01					46		
HS2405232-02					84		
HS2405233-02					80		
HS2405252-01					81		
HS2405253-01					100		
CCV50		2	2	1	50		
HS2405276-01					60		
HS2405277-01					26		
HS2405297-02					74		
HS2405242TM-02					48		
HS2405265-01					37		
HS2405265-01					40		
CCV100		2	2	1	99		

LCS ID #	CCV1 ID#	CCV2 ID#	Vial Lot#:	Reviewed By:
325.101.409	325.101.410	325.101.411	310.060.9018	DM
LCS Prep Date:	**Prep Date:**	**Prep Date:**	**MS ID:**	***Pipette ID:***
4-11-24	→	→	310.060.8214	HC9.COD
Digestor ID:	**Digestor *Temp (°C):***	**Date/Time In Digestor:**	**Date/Time Off Digestor:**	**Batch ID:**
DRB 200	150°	5-29-24 14:00	5-29-24 16:00	467960

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HS24051276 Wetchem O&G_1664_W_HS

ALS WO# HS24051276

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05232024 O&G WATER

Method: O&G, HEM by EPA 1664A (SOP HS-WC036, Current Revision)

Analyst:	MC
Review By:	
Batch ID:	
LCS/MS Spike ID:	3100608801
Hexane ID:	321500103
Filter Lot:	3100608818
Silica Gel:	

Methanol ID:	3212500104	
1:1 HCl ID:	30010709007	
Na2SO4 Cartridge ID:	3100608810	
Thermo HotBlock Setting (°C):		40
pH Paper ID:	30010709607	
Pipette ID		

Temp Ranges (°C)
Pan Drying: 105-115
Hex Evap: 68-72
HotBlock: 35-50

	grams	mg	Accept.
Init 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Init 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes
Final 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Final 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes

Pan	Temp Deg C	Actual Deg C	Date	Time
Pan 1st In:	105-115	105	05/23/2024	7:00:00 AM
Pan 1st Out:	105-115	105	05/23/2024	7:10:00 AM
Pan 2nd In:	105-115	105	05/23/2024	8:00:00 AM
Pan 2nd Out:	105-115	105	05/23/2024	8:10:00 AM
Pan 3rd In:	105-115			
Pan 3rd Out:	105-115			
Oven ID:				
Balance ID:	WC Balance-03			

O&G	Temp Deg C	Actual Deg C	Date	Time
O&G 1st In:	68-72	72	05/23/2024	10:00:00 AM
O&G 1st Out:	68-72	72	05/23/2024	10:10:00 AM
O&G 2nd In:	68-72	72	05/23/2024	11:00:00 AM
O&G 2nd Out:	68-72	72	05/23/2024	11:10:00 AM
O&G 3rd In:	68-72			
O&G 3rd Out:	68-72			
Oven ID:	WC Oven 1A			
Balance ID:	WC Balance-03			

O&G
Silica Gel O&G 1st In:
Silica Gel O&G 1st Out:
Silica Gel O&G 2nd In:
Silica Gel O&G 2nd Out:
Silica Gel O&G 3rd In:
Silica Gel O&G 3rd Out:
Oven ID:
Balance ID:

Criteria Change is <0.0005 g | Criteria Change is <4%

$$\text{O \& G (HEM), mg/L} = \frac{\text{Weight (HEM, mg)}}{\text{Volume (Sample Extracted, L)}}$$

Criteria Change is <0.0005 g | Criteria Change is <4%

O & G (SGT

Dish ID	Work Order #	Bottle Number	SGT	Sample Type	pH Check	1st Dry Pan Wt (g)	2nd Dry Pan Wt (g)	3rd Dry Pan Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	Pan Weight (g)	Sample Vol (mL)	70 deg C O&G 1st dry Wt (g)	70 deg C O&G 2nd dry Wt (g)	70 deg C O&G 3rd dry Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	O&G Weight (g)	O&G (mg/L)	Dish ID	Work Order #
1	WMBLK-05232024	1 of 2		MBLK	<2	4.0941	4.0944		Yes	Yes	4.0944	1000	4.0943	4.0943		Yes	Yes	-0.0001	-0.1	1	WMBLK-05232024
2	LCS-05232024	1 of 2		LCS	<2	4.0818	4.0818		Yes	Yes	4.0818	1000	4.1267	4.1267		Yes	Yes	0.0449	44.9	2	LCS-05232024
3	LCSD-05232024	1 of 2		LCSD	<2	4.1413	4.1412		Yes	Yes	4.1412	1000	4.1850	4.1850		Yes	Yes	0.0438	43.8	3	LCSD-05232024
4	HS24051024-01MS	1 of 2		MS	<2	4.1037	4.1035		Yes	Yes	4.1035	1000	4.1437	4.1437		Yes	Yes	0.0402	40.2	4	HS24051024-01MS
5	HS24051024-01	1 of 2		Sample	<2	4.0753	4.0752		Yes	Yes	4.0752	225	4.0755	4.0756		Yes	Yes	0.0004	1.8	5	HS24051024-01
6	HS24051260-01	1 of 2		Sample	<2	4.1801	4.1797		Yes	Yes	4.1797	1000	4.1801	4.1801		Yes	Yes	0.0004	0.4	6	HS24051260-01
7	HS24051254-01	1 of 2		Sample	<2	4.1025	4.1026		Yes	Yes	4.1026	230	4.1027	4.1028		Yes	Yes	0.0002	0.9	7	HS24051254-01
8	HS24051254-02	1 of 2		Sample	<2	4.0992	4.0993		Yes	Yes	4.0993	240	4.1001	4.1003		Yes	Yes	0.0010	4.2	8	HS24051254-02
9	HS24051254-03	1 of 2		Sample	<2	4.0939	4.0936		Yes	Yes	4.0936	225	4.0944	4.0942		Yes	Yes	0.0006	2.7	9	HS24051254-03
10	HS24051261-01	1 of 2		Sample	<2	4.1386	4.1386		Yes	Yes	4.1386	220	4.1395	4.1395		Yes	Yes	0.0009	4.1	10	HS24051261-01
11	HS24051305-01	1 of 2		Sample	<2	4.1303	4.1307		Yes	Yes	4.1307	210	4.1309	4.1309		Yes	Yes	0.0002	1.0	11	HS24051305-01
12	HS24051328-01	1 of 2		Sample	<2	4.1372	4.1372		Yes	Yes	4.1372	215	4.1373	4.1373		Yes	Yes	0.0001	0.5	12	HS24051328-01
13	HS24051342-01	1 of 2		Sample	<2	4.0893	4.0891		Yes	Yes	4.0891	210	4.0894	4.0895		Yes	Yes	0.0004	1.9	13	HS24051342-01
14	HS24051349-01	1 of 2		Sample	<2	4.1193	4.1193		Yes	Yes	4.1193	855	4.1199	4.1199		Yes	Yes	0.0006	0.7	14	HS24051349-01
15	HS24051349-02	1 of 2		Sample	<2	4.1141	4.1141		Yes	Yes	4.1141	890	4.1147	4.1147		Yes	Yes	0.0006	0.7	15	HS24051349-02
16	HS24051284-01	1 of 2		Sample	<2	4.1288	4.1287		Yes	Yes	4.1287	210	4.3344	4.3340		Yes	Yes	0.2053	977.6	16	HS24051284-01
17	HS24051284-02	1 of 2		Sample	<2	4.0893	4.0893		Yes	Yes	4.0893	205	4.0956	4.0956		Yes	Yes	0.0063	30.7	17	HS24051284-02
18	HS24051276-01	1 of 2		Sample	<2	4.1101	4.1102		Yes	Yes	4.1102	1010	4.1106	4.1106		Yes	Yes	0.0004	0.4	18	HS24051276-01
19	HS24051277-01	1 of 2		Sample	<2	4.1301	4.1301		Yes	Yes	4.1301	1065	4.1304	4.1306		Yes	Yes	0.0005	0.5	19	HS24051277-01
20	HS24051287-01	1 of 2		Sample	<2	4.0909	4.0909		Yes	Yes	4.0909	210	4.0912	4.0912		Yes	Yes	0.0003	1.4	20	HS24051287-01
21	HS24051295-01	1 of 2		Sample	<2	4.1566	4.1566		Yes	Yes	4.1566	210	4.1566	4.1567		Yes	Yes	0.0001	0.5	21	HS24051295-01
22	HS24051295-02	1 of 2		Sample	<2	4.0914	4.0914		Yes	Yes	4.0914	225	4.0915	4.0915		Yes	Yes	0.0001	0.4	22	HS24051295-02
23	HS24051295-03	1 of 2		Sample	<2	4.0996	4.0996		Yes	Yes	4.0996	210	4.0996	4.0995		Yes	Yes	-0.0001	-0.5	23	HS24051295-03
24	HS24051297-01	1 of 2		Sample	<2	4.0944	4.0940		Yes	Yes	4.0940	260	4.0943	4.0942		Yes	Yes	0.0002	0.8	24	HS24051297-01

O&G R2: Calculation corrected in Cell K19, Cells protected.
O&G R3: Calculation corrected in Cell K5, Cells protected.
O&G R4: Added tracability header. Deleted extra worksheets. Added column for pH checks.
O&G R5: Corrected Pentane to Hexane
O&G R6: Inserted 3 weighing columns, weight criteria, and included date/times in/out 12-19-2011
O&G R6.1: Widened rows
O&G R6.2: Fixed Read Only on opening file
O&G R6.3: Hard Coded Oven and Balance, Added 2mg and 1000mg weight requirements, Initial and Final 4-12-2012
O&G R6.4: Fixed cells E9..E12
O&G R6.5: Oven & Balance IDs are not hard coded
O&G R6.6: Dropdown list created for Oven and Balance IDs. Validate using Rev 6.5. (10-23-12)
O&G R6.7: Bottle number/silica gel lot added. Second page for Silica Gel samples
O&G R6.8: Methanol, 1:1 H2SO4, Sodium Sulfate cartridge. LCS & MS sample STD.
O&G R6.9 pH Paper lot added.
O&G R7.0 Added Pipette ID.

HS24051276-MSSEMI-SW8270SIM

ALS WO# HS24051276

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Form 1

Organic Analysis Data Sheet

EPA 3510

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

EPA 3510

LH18/24-SP650_052124	Collected	Received	Matrix	Basis
HS24051276-01	05/21/24 13:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.93	a	0.10	0.30	0.30	10	05/31/24 16:16	SV-6_468217	10.D	212606

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Workorder: HS24051276

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-468217

LH18/24-SP650_052124

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24051276-01 Instrument ID SV6	Water	05/31/24 16:16	%REC	10

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	10.D	0.076	0.08	95.4		40-140
4-Terphenyl-d14	10.D	0.077	0.08	96.8		40-140
Nitrobenzene-d5	10.D	0.072	0.08	90.3		40-140

LCS-212606

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID LCS-212606 Instrument ID SV6	Aqueous	05/31/24 15:41	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	08.D	0.06549	0.08	81.9		40-140
4-Terphenyl-d14	08.D	0.0699	0.08	87.4		40-140
Nitrobenzene-d5	08.D	0.0742	0.08	92.7		40-140

LCSD-212606

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID LCSD-212606 Instrument ID SV6	Aqueous	05/31/24 15:58	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	09.D	0.06576	0.08	82.2		40-140
4-Terphenyl-d14	09.D	0.06773	0.08	84.7		40-140
Nitrobenzene-d5	09.D	0.06787	0.08	84.8		40-140

MBLK-212606

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID MBLK-212606 Instrument ID SV6	Aqueous	05/31/24 15:23	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06088	0.08	76.1		40-140
4-Terphenyl-d14	07.D	0.07382	0.08	92.3		40-140
Nitrobenzene-d5	07.D	0.06095	0.08	76.2		40-140

Form 2 - System Monitoring Compound Recovery

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 3B - Laboratory Control Sample Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

EPA 3510

SAMPLENUM
LCS-212606

SV-6_468217				LCS-212606		LCSD-212606		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/31/24	Run Date	05/31/24	
Prep Date	05/28/24	Analysis Batch	212606	Run Time	15:41	Run Time	15:58	
Prep Method	SW3510	Prep Batch	212606	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	0.0702	88		0.07174	90		20	2.18	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-212606	05/28/24	212606	Aqueous	05/31/24 15:23	212606	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-212606	LCS-212606	LCS	05/31/24 15:41	212606	SV6	08.D
LCSD-212606	LCSD-212606	LCSD	05/31/24 15:58	212606	SV6	09.D
LH18/24-SP650_052124	HS24051276-01	SAMP	05/31/24 16:16	212606	SV6	10.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 DFTPP Injection Date: 04/18/24

Instrument ID: SV6 DFTPP Injection Time: 1039

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-0.0	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-468217

Tune File 01.D 05/31/24 5/31/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	31.6 (31.6)
68	Less than 2.0% of mass 69	0.6 (1.75) 1
69	Mass 69 RA	36.1 (36.1)
70	Less than 2.0% of mass 69	0.2 (0.517) 1
127	10.0 - 80.0% of mass 198	44.3 (44.3)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	7.5 (7.52)
275	10.0 - 60.0% of mass 198	25 (25)
365	Greater than 1.0% of mass 198	3.1 (3.06)
441	Present, but < 24.0% of mass 442	12.2 (69.2)
442	greater than 50.0% of mass 198	86.9 (86.9)
443	15.0 - 24.0% of mass 442	17.6 (20.3) 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	5/31/2024	03A	14DX-0.08
2	MBLK-212606	MBLK	5/31/2024	07	MBLK-212606
3	LCS-212606	LCS	5/31/2024	08	LCS-212606
4	LCSD-212606	LCSD	5/31/2024	09	LCSD-212606
5	HS24051276-	SAMP	5/31/2024	10	LH18/24-SP650_052124
6	14DX-0.08	CCV	5/31/2024	11	14DX-0.08

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

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix	LIQUID	**Fraction**	SV
Lab Smp Id	PAHSIM ICV-0.08	**Client Smp ID**	PAHSIM ICV-0.08
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	11.D	**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	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID 03A.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 03A.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 31-MAY-2024 1408
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	0.295	0.010	-1.606	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.46	0.010	-4.650	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.73	0.010	-14.875	20.0	Averaged	
1,4-Dioxane	0.214	0.219	0.010	2.18	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 11.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 31-MAY-2024 1638
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	0.256	0.010	-14.775	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.35	0.010	-11.604	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.70	0.010	-16.418	20.0	Averaged	
1,4-Dioxane	0.214	0.202	0.010	-5.815	20.0	Averaged	

Prep Batch Report

Batch ID:	212606	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	28 May 2024 06:30 AM	**Original Factor:**	0.001
End Date:	28 May 2024 12:00 PM	**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
HS24040667-05	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl nodcs Out of Hold
HS24051276-01	E	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051277-01	E	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-01	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-02	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-03	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-04	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-05	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-06	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051669-01	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
HS24051669-02	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
HS24051669-03	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
LCS-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no
LCSD-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no
MBLK-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no

Prep Batch Report

Batch ID:	212606	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	28 May 2024 06:30 AM	**Original Factor:**	0.001
End Date:	28 May 2024 12:00 PM	**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 (7-12)d(13-15)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

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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www.alsglobal.com

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS24051276**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-468217

Run ID SV-6_468217 **Start Date** 05/31/24 **EndDate** 06/07/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:08	14DX-0.08	CCV	14DX-0.08	03A.D	05/31/24	1
15:06	HS24051277-01	SAMP	ZZZZZZZZZZ	06.D	05/31/24	1
15:23	MBLK-212606	MBLK	MBLK-212606	07.D	05/31/24	1
15:41	LCS-212606	LCS	LCS-212606	08.D	05/31/24	1
15:58	LCSD-212606	LCSD	LCSD-212606	09.D	05/31/24	1
16:16	HS24051276-01	SAMP	LH18/24-	10.D	05/31/24	10
16:38	14DX-0.08	CCV	14DX-0.08	11.D	05/31/24	1
18:23	HS24040667-05	SAMP	ZZZZZZZZZZ	17.D	05/31/24	1
18:40	HS24051428-01	SAMP	ZZZZZZZZZZ	18.D	05/31/24	1
18:58	HS24051428-02	SAMP	ZZZZZZZZZZ	19.D	05/31/24	1
19:15	HS24051428-03	SAMP	ZZZZZZZZZZ	20.D	05/31/24	1
19:33	HS24051434-04	SAMP	ZZZZZZZZZZ	21.D	05/31/24	1
19:50	HS24051434-05	SAMP	ZZZZZZZZZZ	22.D	05/31/24	1
20:22	HS24051669-01	SAMP	ZZZZZZZZZZ	22.D	06/07/24	10
20:08	HS24051434-06	SAMP	ZZZZZZZZZZ	23.D	05/31/24	1
20:43	HS24051669-02	SAMP	ZZZZZZZZZZ	25.D	05/31/24	1
21:00	HS24051669-03	SAMP	ZZZZZZZZZZ	26.D	05/31/24	1

SV06 -Logbook

Batch: 60250 **Analyst:** Marco Gutierrez

Date: 05-31-2024 **Reviewer:**

Method: R8270D SIM 14DX **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	05-31-2024 12:21 pm	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	05-31-2024 01:02 pm	1.00	1000.00 mL	1000.00 mL	02A.D	Liquid	Y	NA
3	14DX-0.08	CCV	05-31-2024 02:08 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	SIM CCB	SAMP	05-31-2024 02:31 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	HS24051276-01	SAMP	05-31-2024 02:48 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS24051277-01	SAMP	05-31-2024 03:06 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	MBLK-212606	MBLK	05-31-2024 03:23 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCS-212606	LCS	05-31-2024 03:41 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCSD-212606	LCSD	05-31-2024 03:58 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24051276-01	SAMP	05-31-2024 04:16 pm	10.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX-0.08	CCV	05-31-2024 04:38 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	05-31-2024 04:56 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-211977	SAMP	05-31-2024 05:13 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-211977	SAMP	05-31-2024 05:31 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-211977	SAMP	05-31-2024 05:48 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24050916-01	SAMP	05-31-2024 06:06 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24040667-05	SAMP	05-31-2024 06:23 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24051428-01	SAMP	05-31-2024 06:40 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24051428-02	SAMP	05-31-2024 06:58 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24051428-03	SAMP	05-31-2024 07:15 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24051434-04	SAMP	05-31-2024 07:33 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24051434-05	SAMP	05-31-2024 07:50 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24051434-06	SAMP	05-31-2024 08:08 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24051669-01	SAMP	05-31-2024 08:25 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24051669-02	SAMP	05-31-2024 08:43 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24051669-03	SAMP	05-31-2024 09:00 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA

SV06 -Logbook

Batch: 57986 **Analyst:** Marco Gutierrez

Date: 12-12-2023 **Reviewer:**

Method: R8270D SIM PAH ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	12-12-2023 11:21 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	12-12-2023 11:33 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHSIM-0.08	ICAL4	12-12-2023 01:20 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	PAHSIM-0.01	ICAL1	12-12-2023 01:58 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	PAHSIM-0.03	ICAL2	12-12-2023 02:18 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	PAHSIM-0.05	ICAL3	12-12-2023 02:39 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	PAHSIM-0.10	ICAL5	12-12-2023 02:59 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	PAHSIM-0.15	ICAL6	12-12-2023 03:19 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	PAHSIM-0.20	ICAL7	12-12-2023 03:39 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	PAHSIM-0.50	ICAL8	12-12-2023 03:59 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	PAHSIM ICV-0.08	ICV	12-12-2023 04:19 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	MBLK-203997	MBLK	12-12-2023 04:40 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	LCS-203997	LCS	12-12-2023 05:00 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCSD-203997	LCSD	12-12-2023 05:20 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	MBLK-204560	MBLK	12-12-2023 05:40 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	LCS-204560	LCS	12-12-2023 06:00 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	LCSD-204560	LCSD	12-12-2023 06:21 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS23111571-03	SAMP	12-12-2023 06:41 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS23111573-03	SAMP	12-12-2023 07:01 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS23120311-02	SAMP	12-12-2023 07:21 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS23120401-02	SAMP	12-12-2023 07:41 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS23120401-03	SAMP	12-12-2023 08:01 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA

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RawData

<textMethods>

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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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

					CONCENTRATIONS ON-COL (ug/L)	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 Page 1

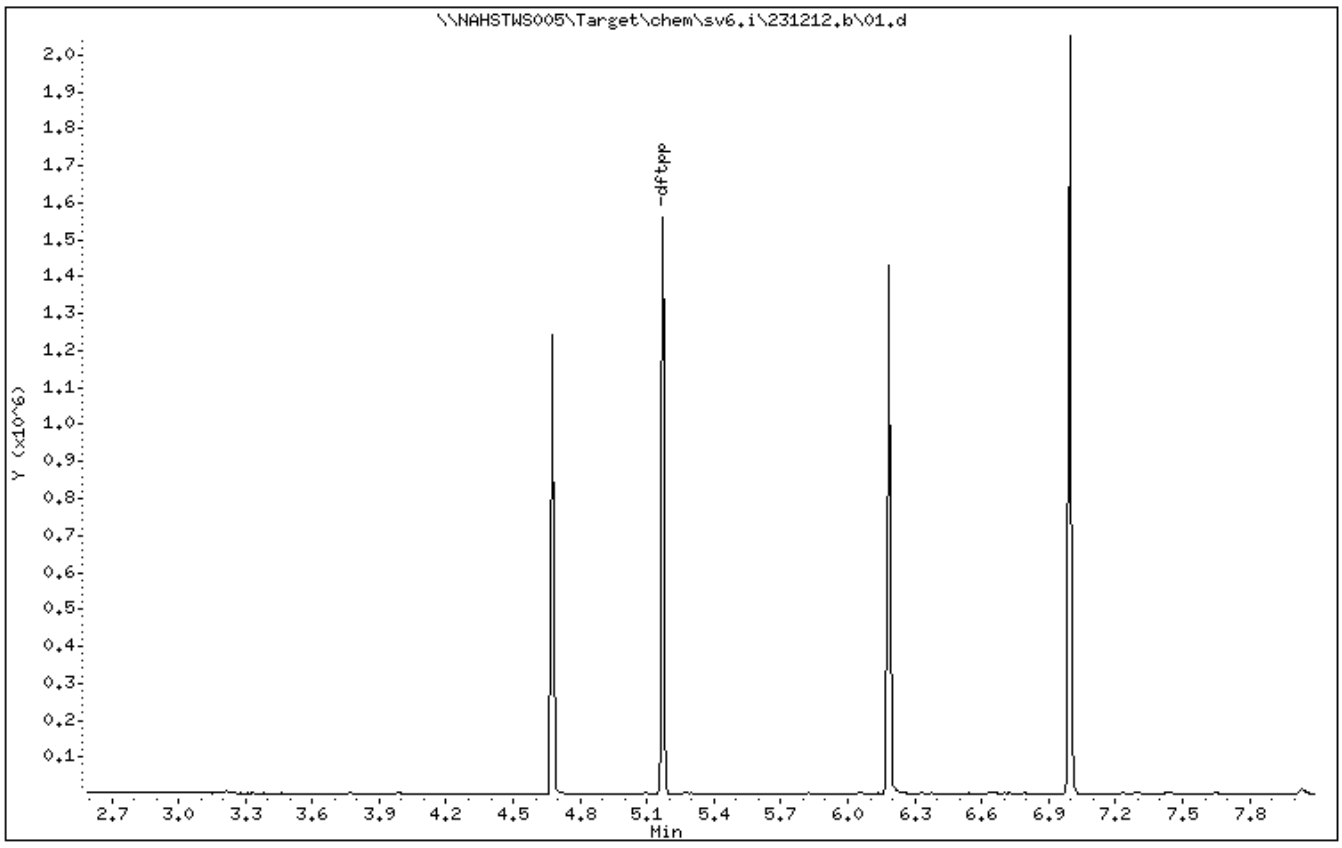
Date : 12-DEC-2023 11:21

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)	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

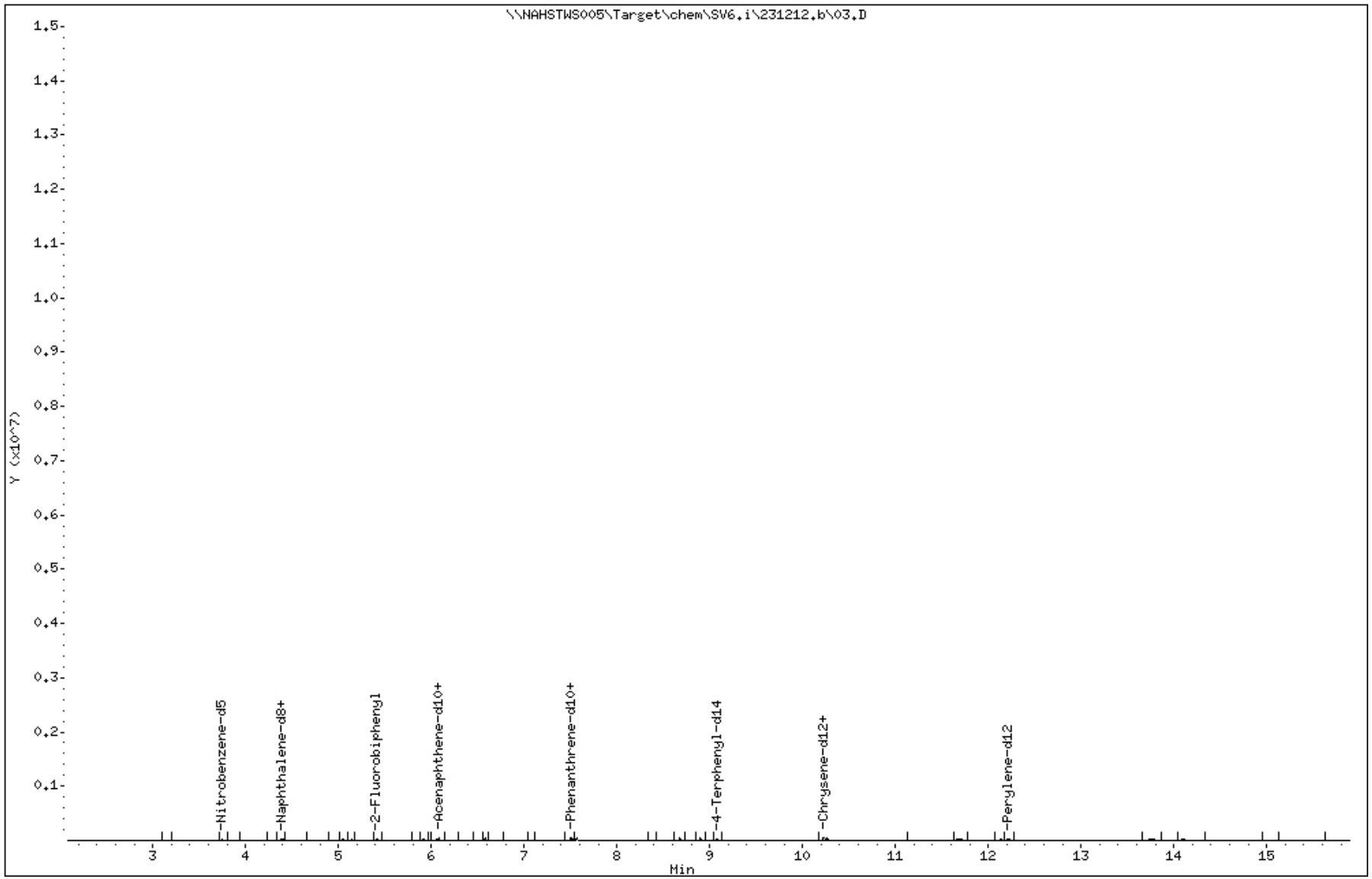
Sample Info: PAHSIM-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

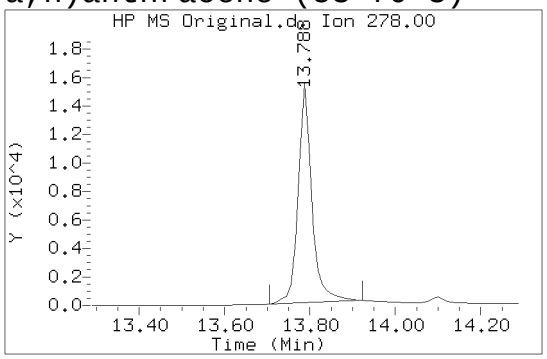


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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

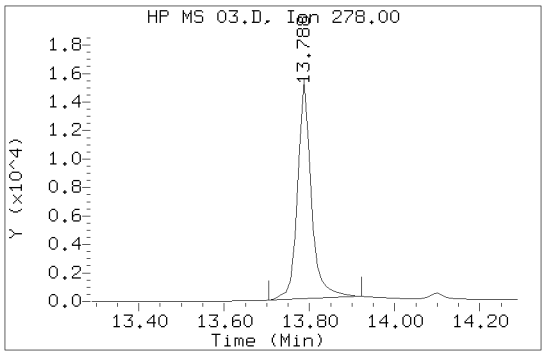
Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

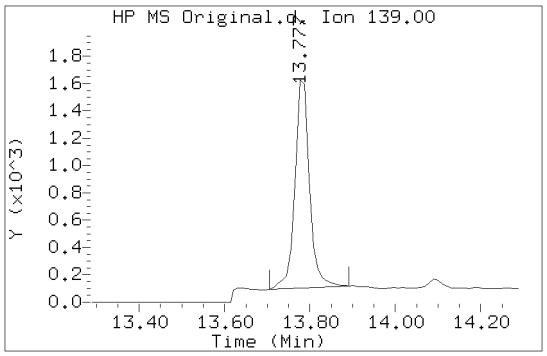
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HEIGHT
15388
18-Dec-2023
10:16
linh
pham



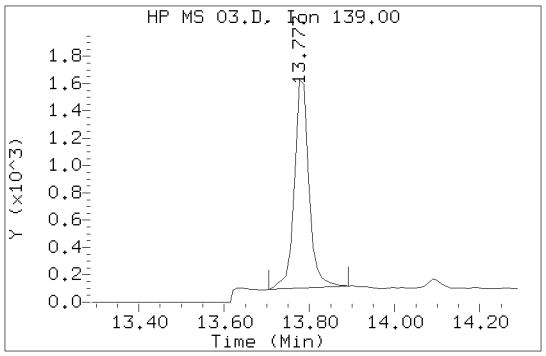
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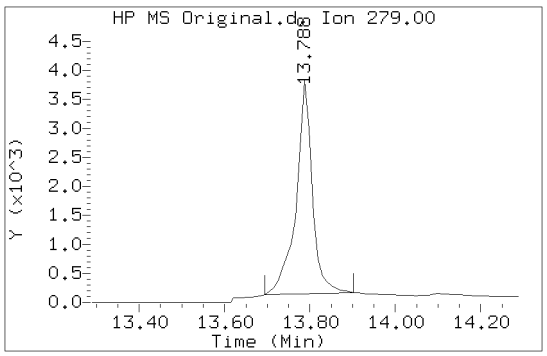
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pham



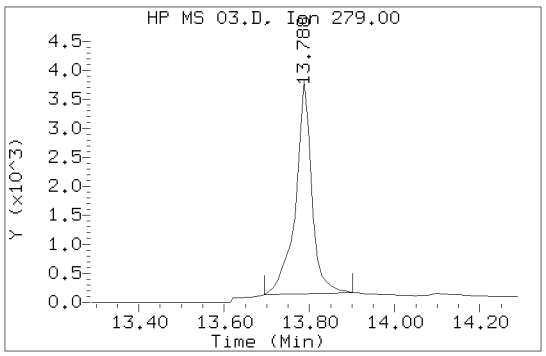
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3617
HEIGHT
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18-Dec-2023
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BEFORE
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AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



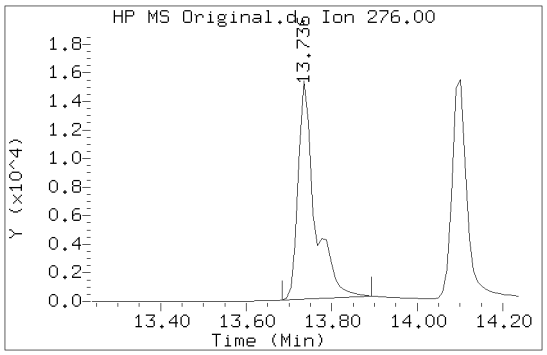
AFTER
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18-Dec-2023
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pham



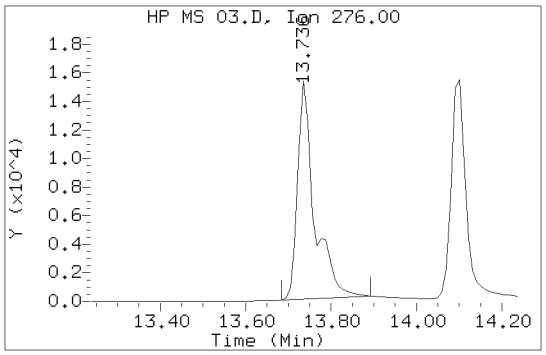
Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

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18-Dec-2023
10:16
linh
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AFTER
MASS
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HEIGHT
15275
18-Dec-2023
10:16
linh
pham



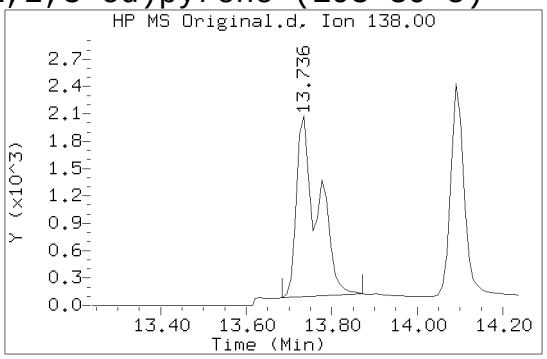
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

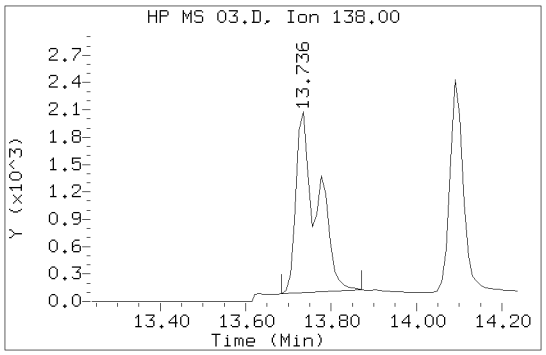
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18-Dec-2023
10:16
linh
pham



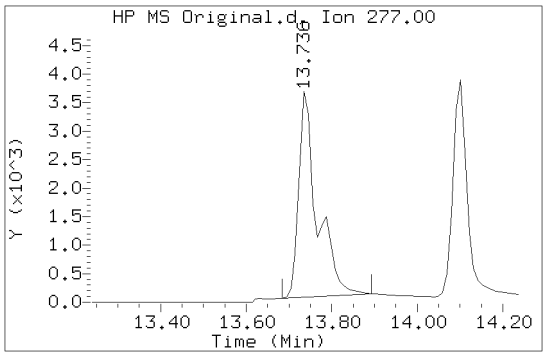
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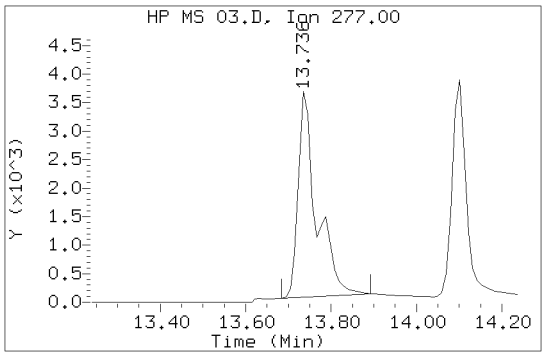
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AFTER

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18-Dec-2023
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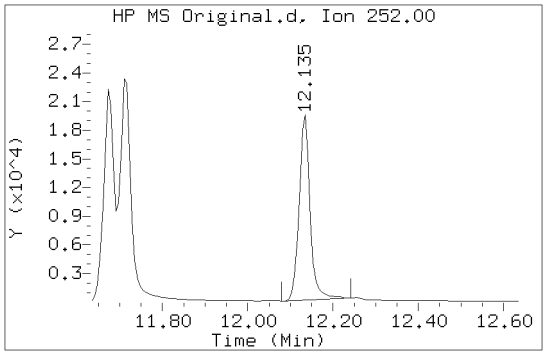


Benzo(a)pyrene (50-32-8)

Reason Code:

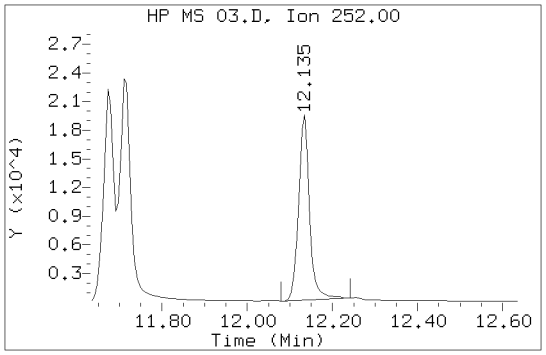
BEFORE

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18-Dec-2023
10:16
linh
pham



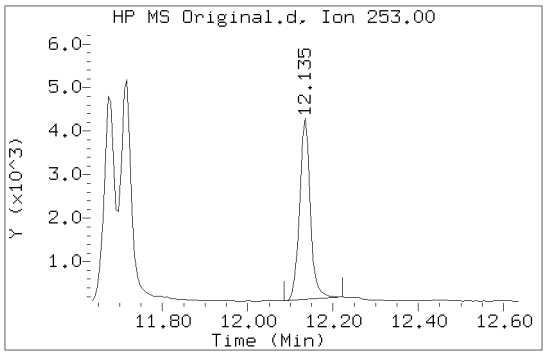
AFTER

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18-Dec-2023
10:16
linh
pham



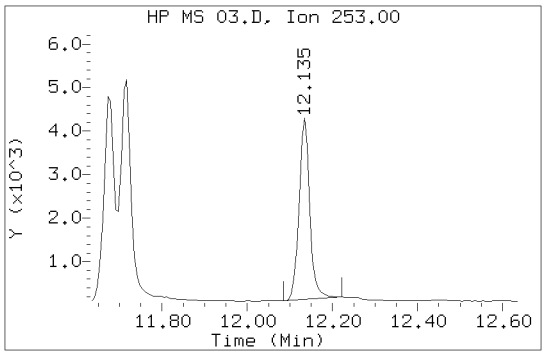
BEFORE

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18-Dec-2023
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AFTER

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HEIGHT
4171
18-Dec-2023
10:16
linh
pham



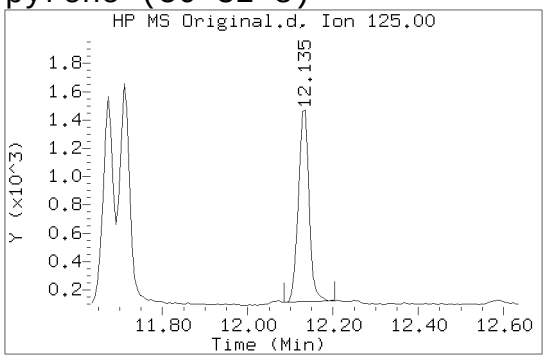
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Benzo(a)pyrene (50-32-8)

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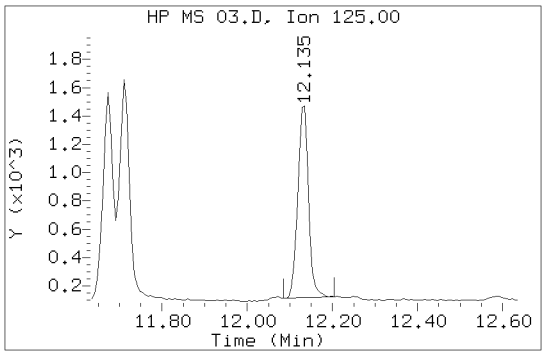
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18-Dec-2023
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AFTER

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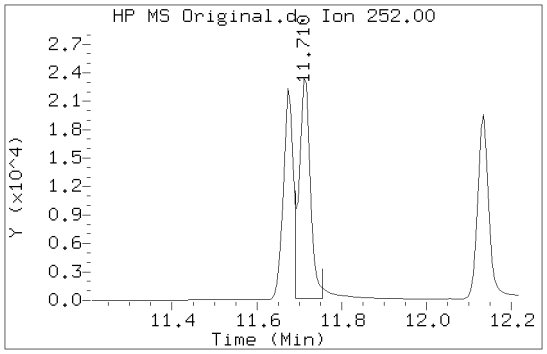


Benzo(k)fluoranthene (207-08-9)

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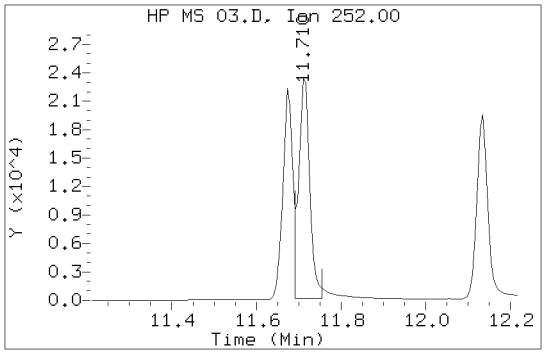
BEFORE

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HEIGHT
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18-Dec-2023
10:16
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pham



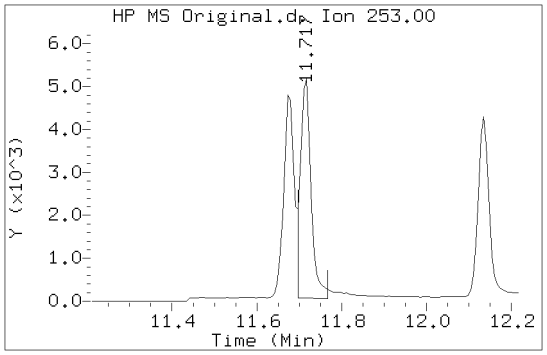
AFTER

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18-Dec-2023
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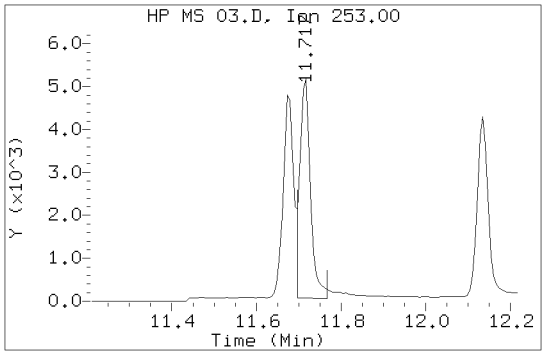
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18-Dec-2023
10:16
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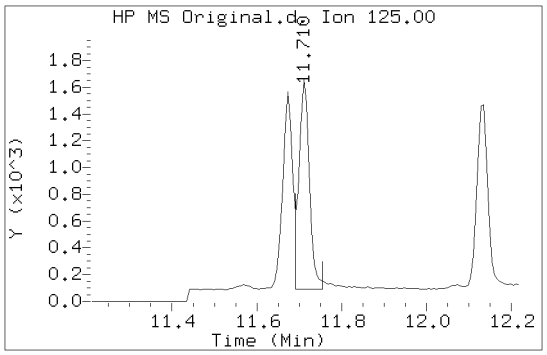
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18-Dec-2023
10:16
linh
pham



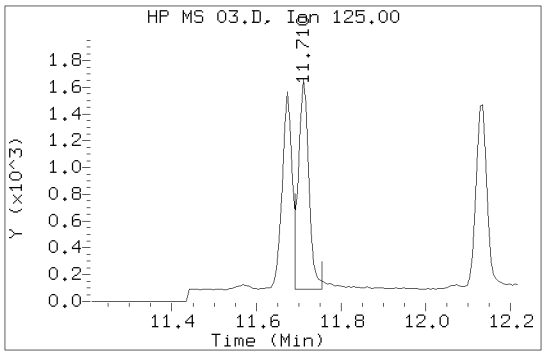
BEFORE

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



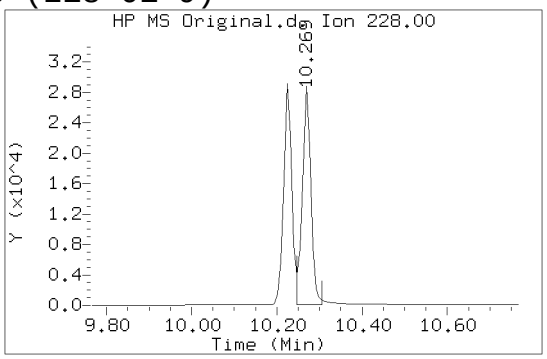
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene (218-01-9)

Reason Code:

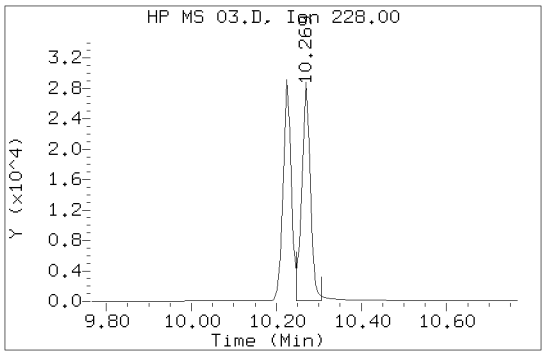
BEFORE

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



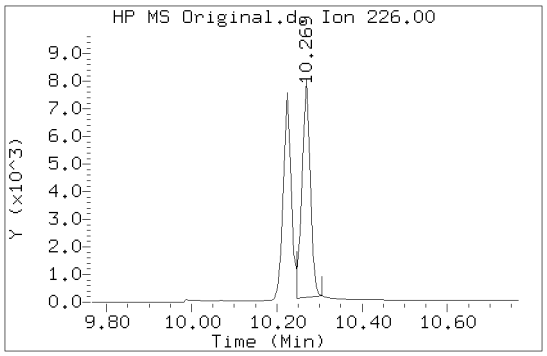
AFTER

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



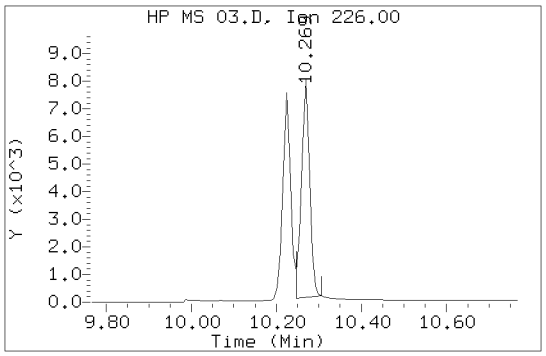
BEFORE

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



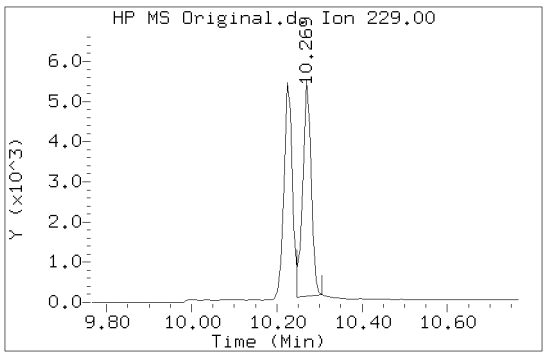
AFTER

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



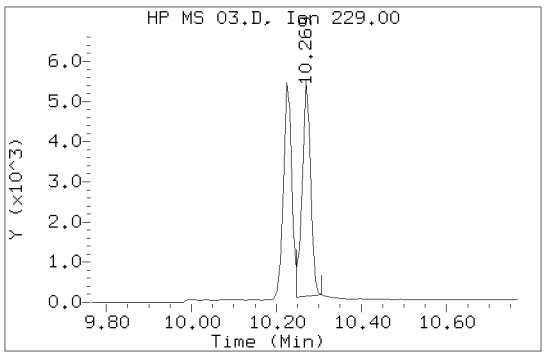
BEFORE

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

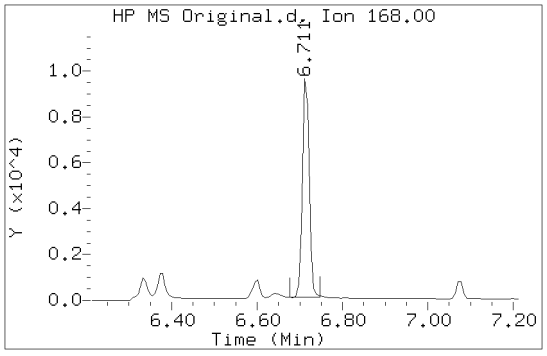


Dibenzofuran (132-64-9)

Reason Code:

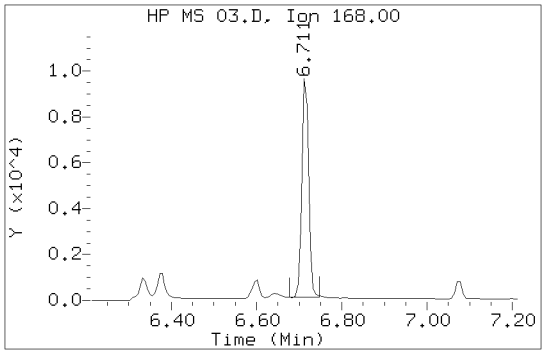
BEFORE

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



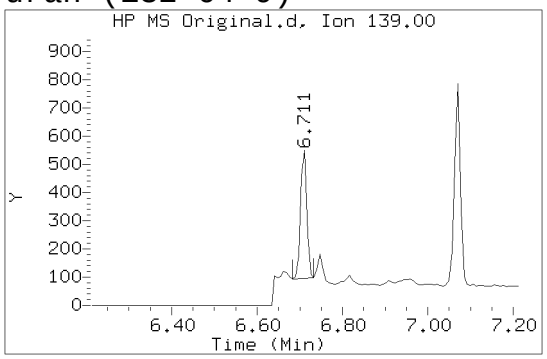
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzofuran (132-64-9)

Reason Code:

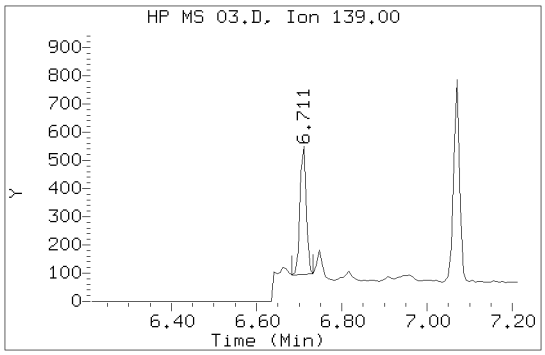
BEFORE

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

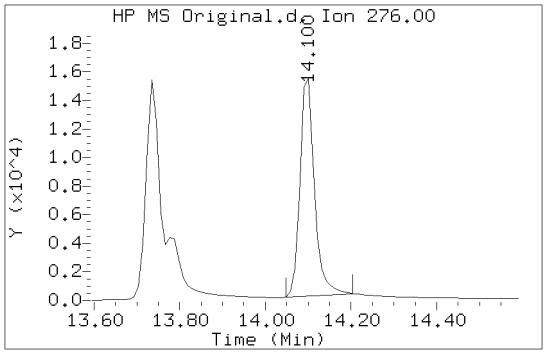


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

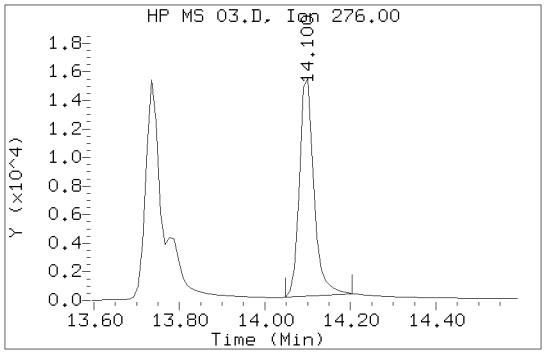
BEFORE

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



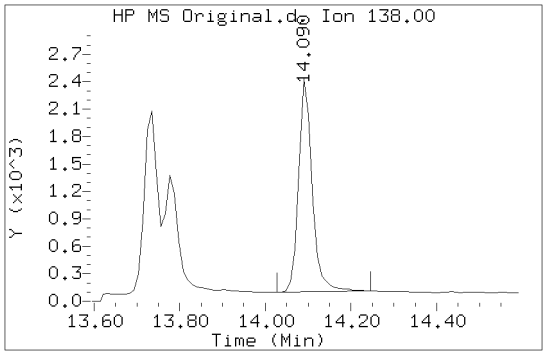
AFTER

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



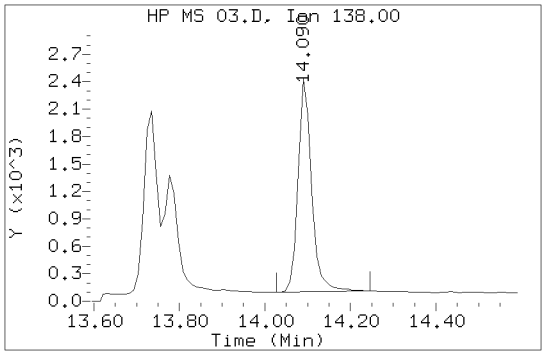
BEFORE

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



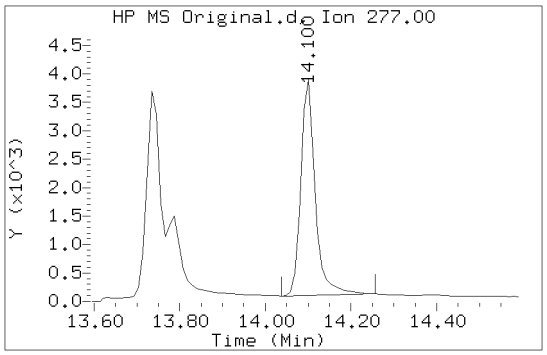
AFTER

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



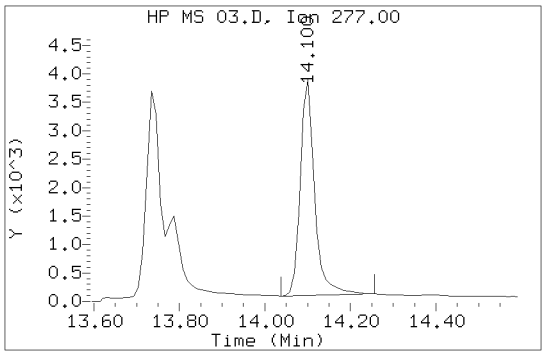
BEFORE

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham



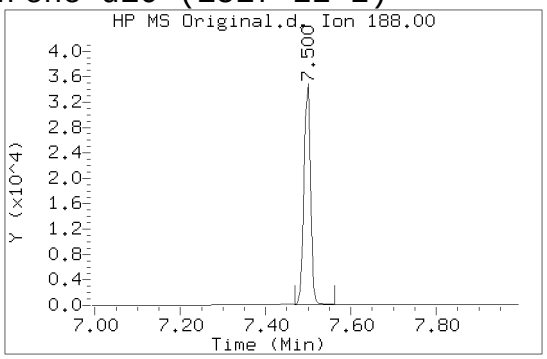
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

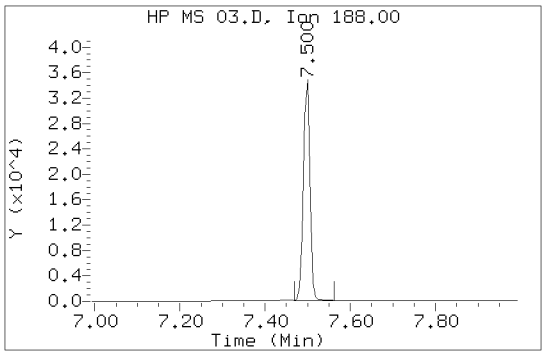
BEFORE

MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



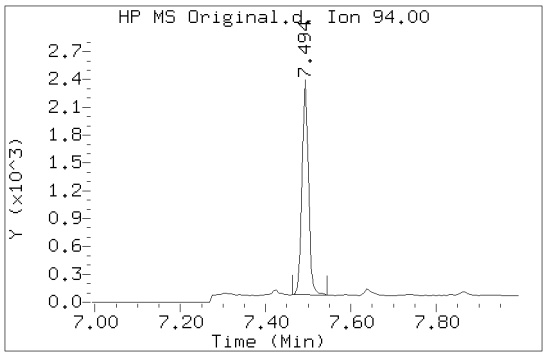
AFTER

MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



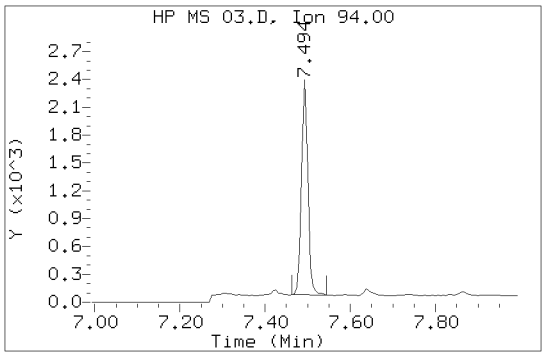
BEFORE

MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



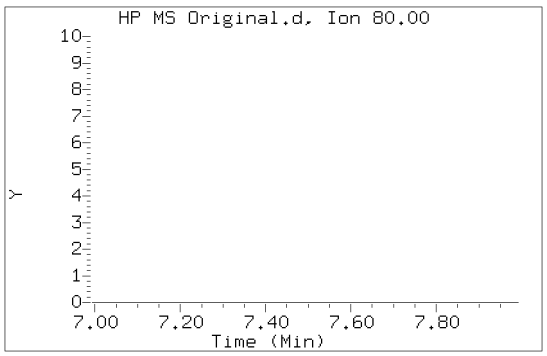
AFTER

MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



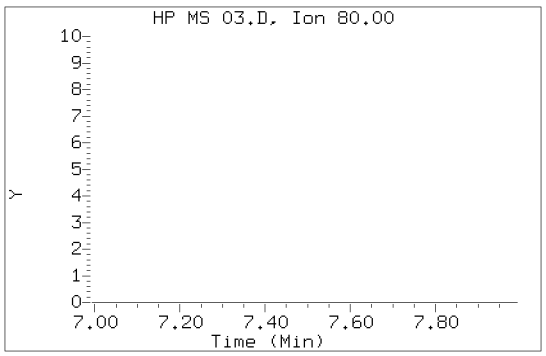
BEFORE

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

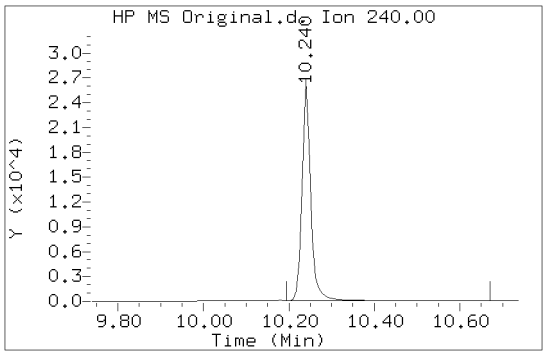


Chrysene-d12 (1719-03-5)

Reason Code:

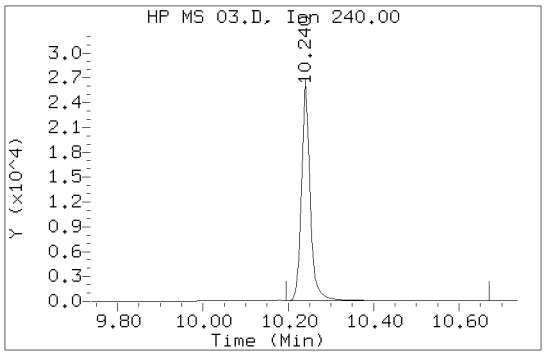
BEFORE

MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



AFTER

MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



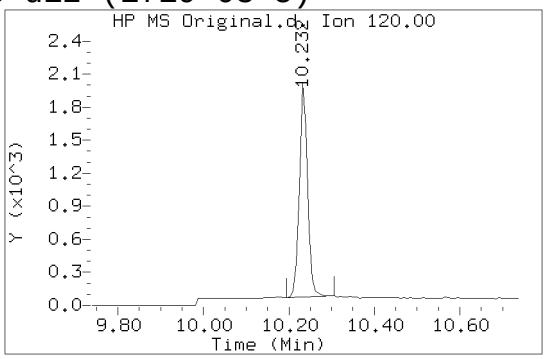
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

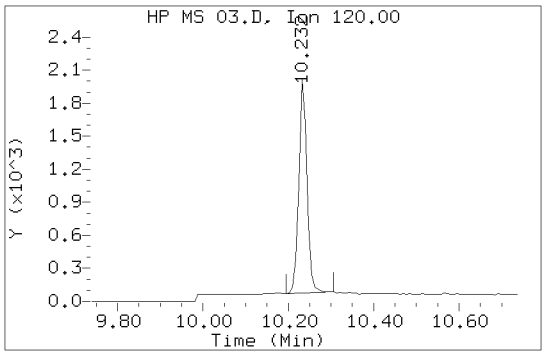
BEFORE

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



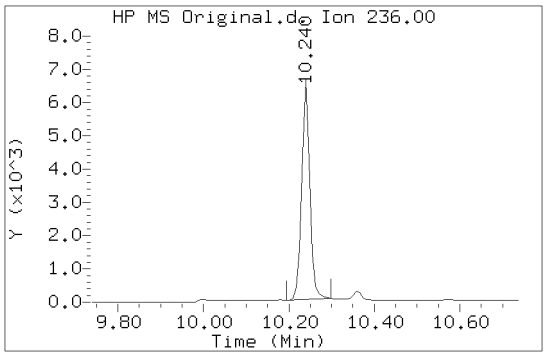
AFTER

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



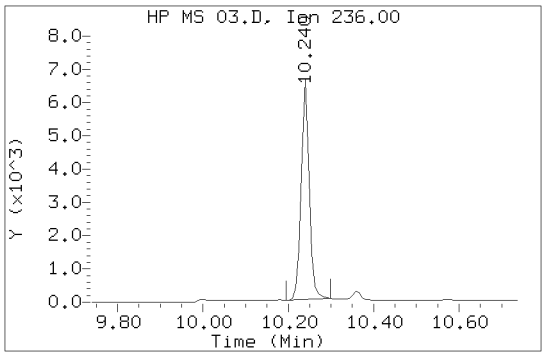
BEFORE

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

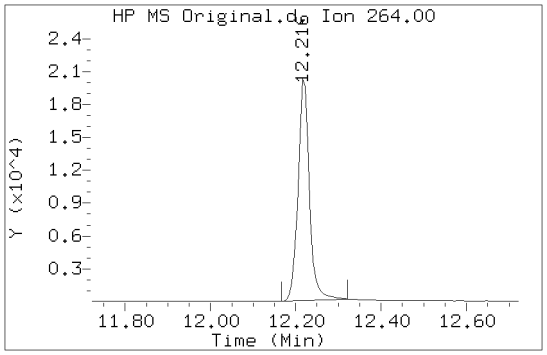


Perylene-d12 (1520-96-3)

Reason Code:

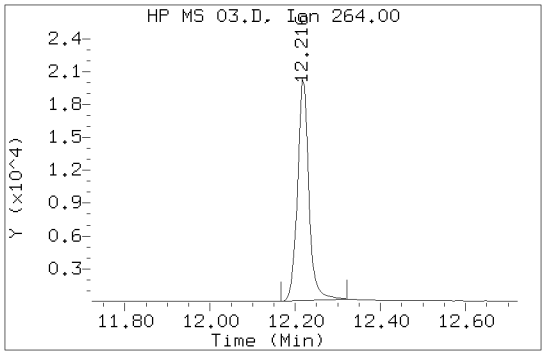
BEFORE

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



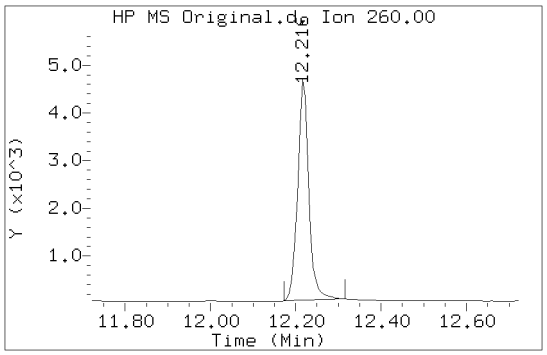
AFTER

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



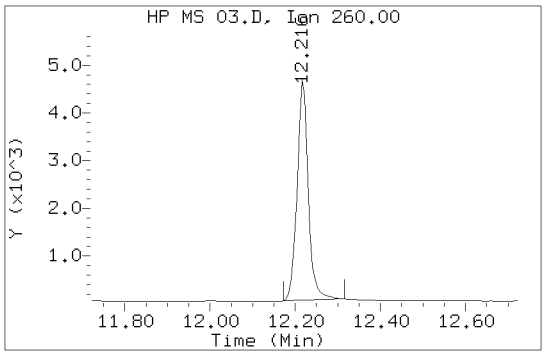
BEFORE

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



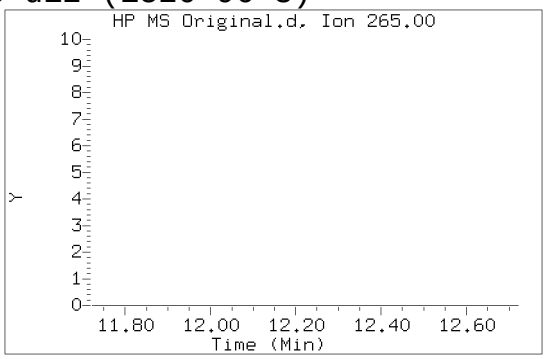
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Perylene-d12 (1520-96-3)

Reason Code:

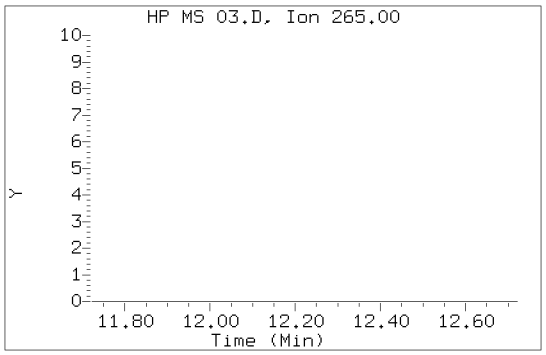
BEFORE

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

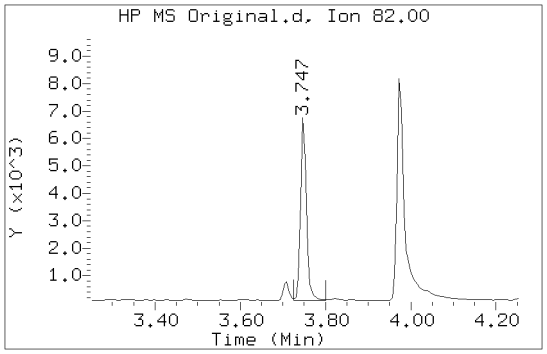


Nitrobenzene-d5 (4165-60-0)

Reason Code:

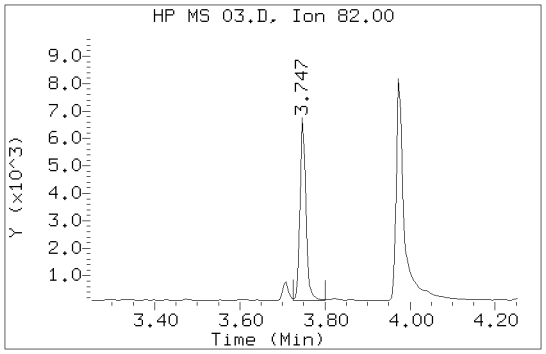
BEFORE

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



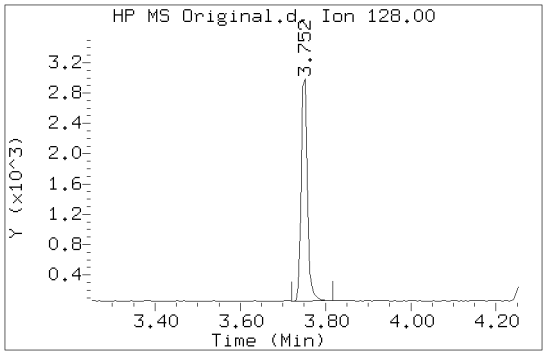
AFTER

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



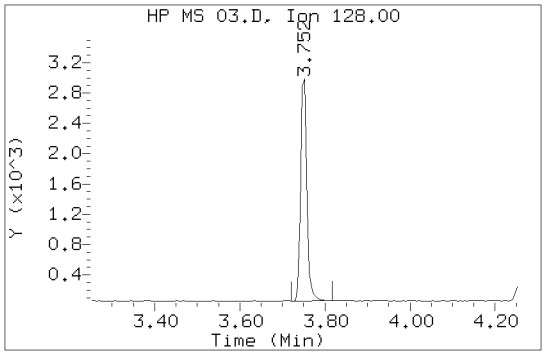
BEFORE

MASS
128
AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



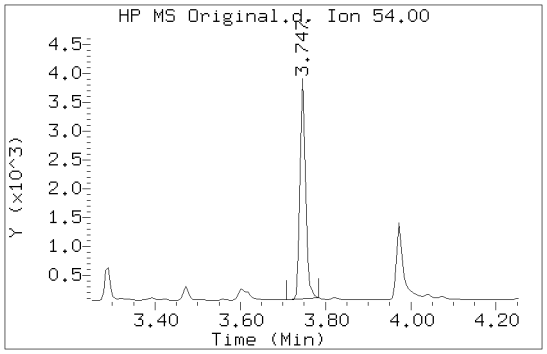
AFTER

MASS
128
AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



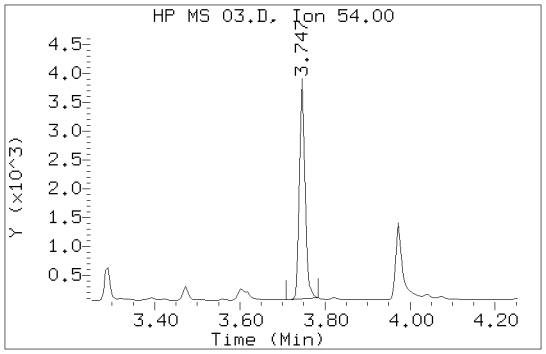
BEFORE

MASS
54
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

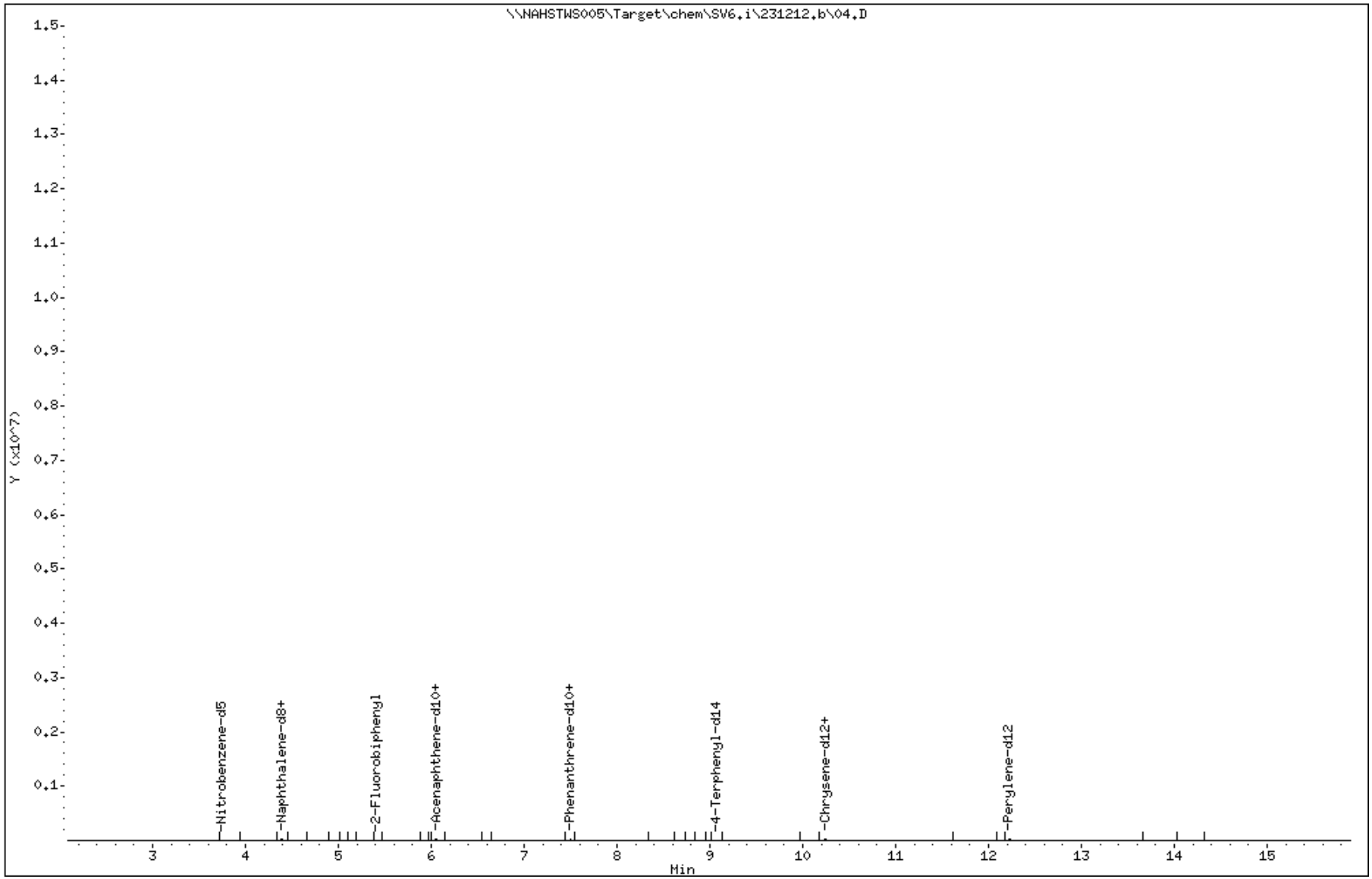
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Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



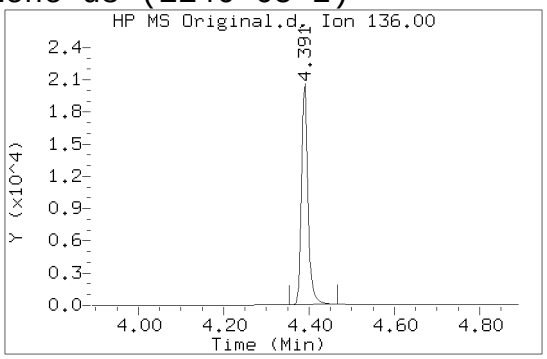
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Naphthalene-d8 (1146-65-2)

Reason Code:

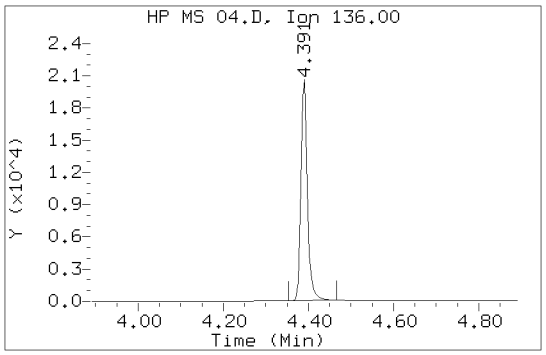
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HEIGHT
20569
18-Dec-2023
10:16
linh
pham



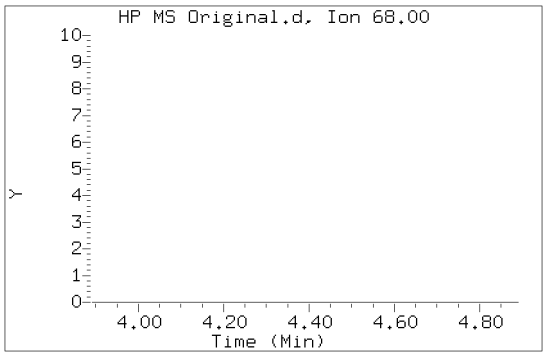
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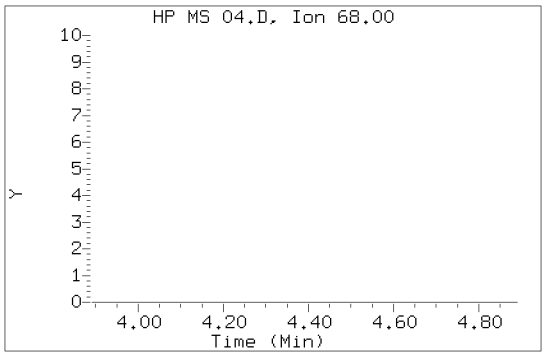
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AFTER

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18-Dec-2023
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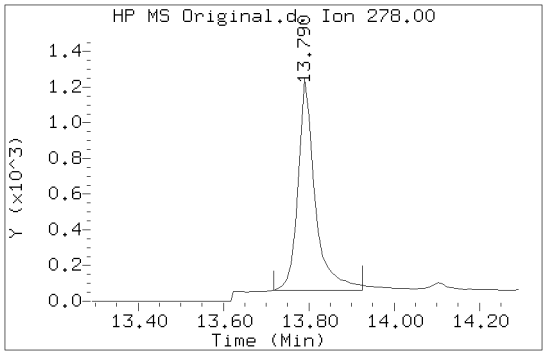


Dibenzo(a,h)anthracene (53-70-3)

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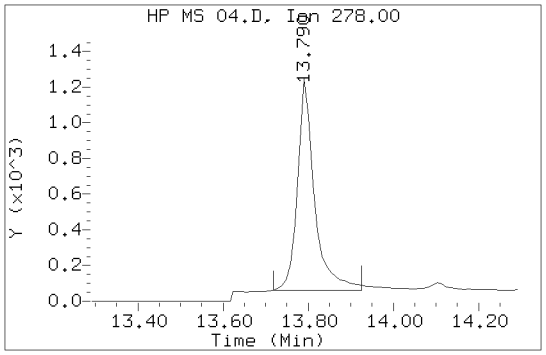
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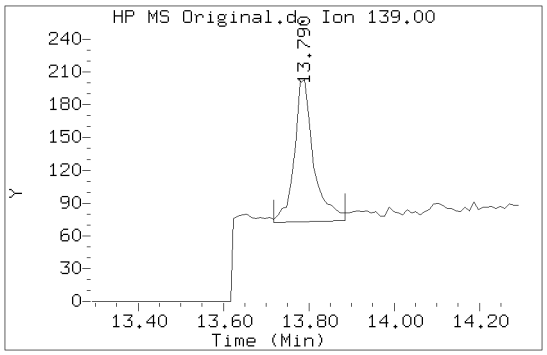
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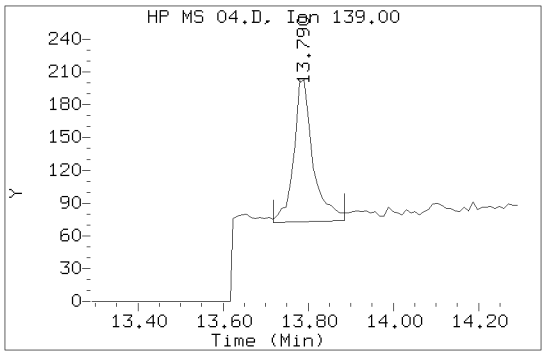
BEFORE

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AREA
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HEIGHT
130
18-Dec-2023
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AFTER

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AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



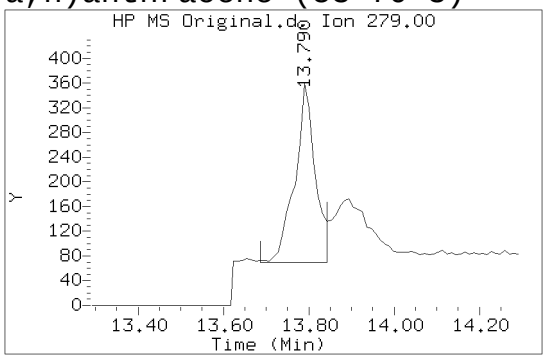
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzo(a,h)anthracene (53-70-3)

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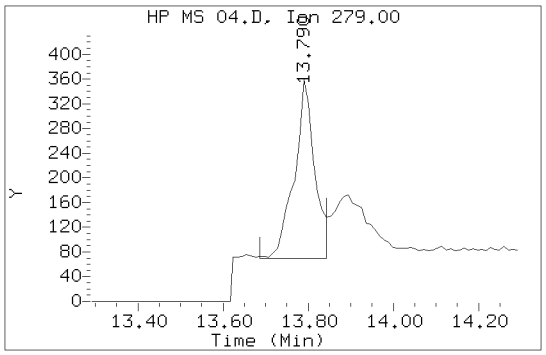
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960
HEIGHT
289
18-Dec-2023
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AFTER

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AREA
960
HEIGHT
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18-Dec-2023
10:16
linh
pham

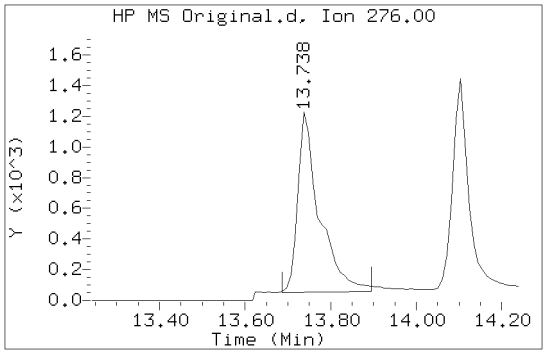


Indeno(1,2,3-cd)pyrene (193-39-5)

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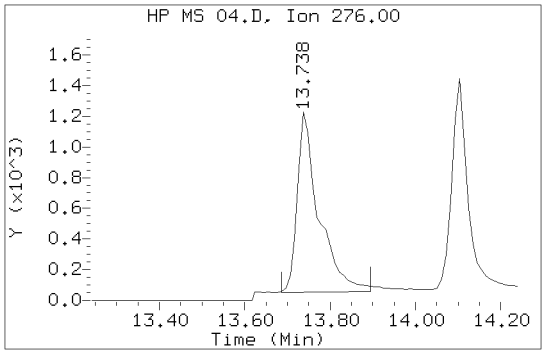
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HEIGHT
1177
18-Dec-2023
10:16
linh
pham



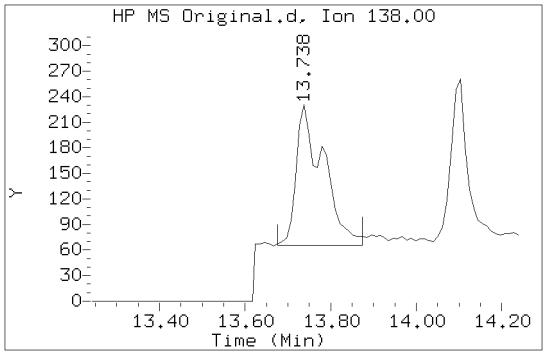
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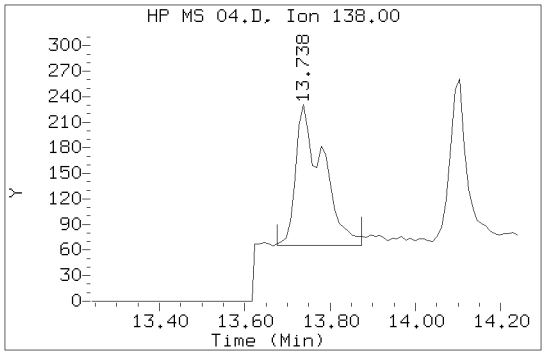
BEFORE

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726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



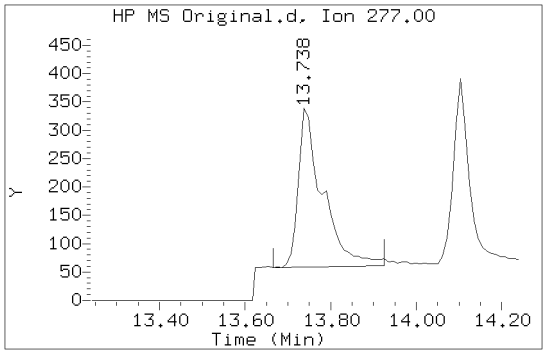
AFTER

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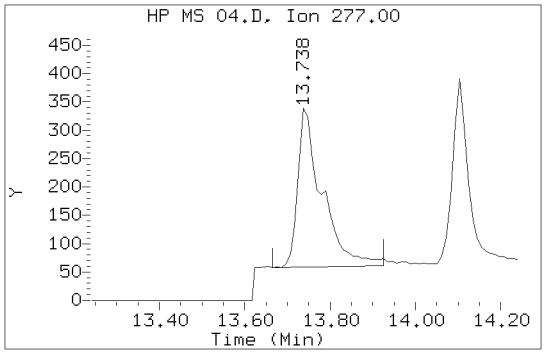
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1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



AFTER

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1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



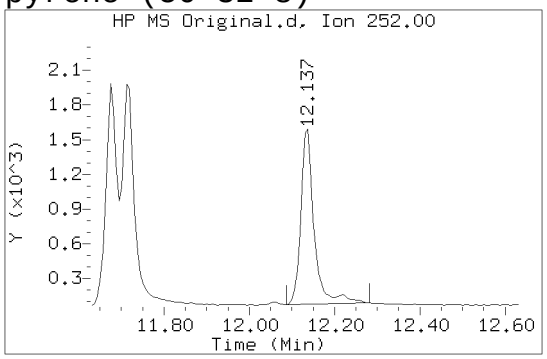
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(a)pyrene (50-32-8)

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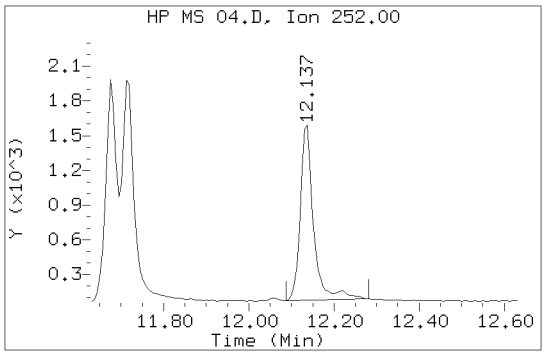
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1510
18-Dec-2023
10:16
linh
pham



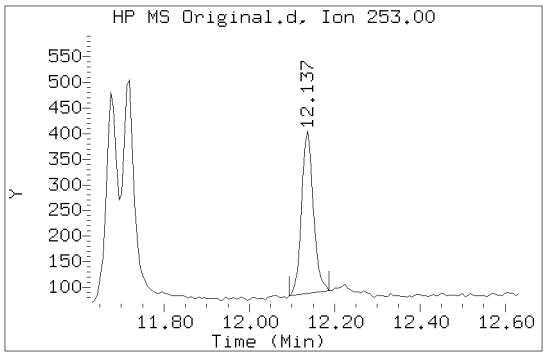
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10:16
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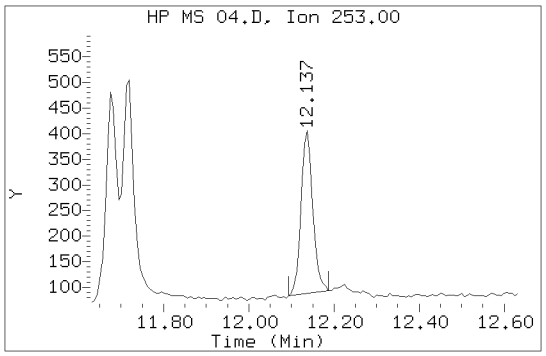
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HEIGHT
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18-Dec-2023
10:16
linh
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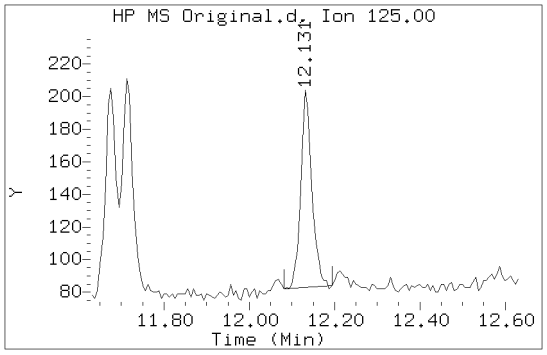
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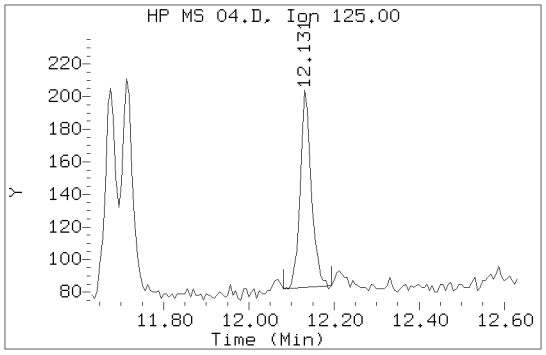
BEFORE

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125
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221
HEIGHT
121
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham

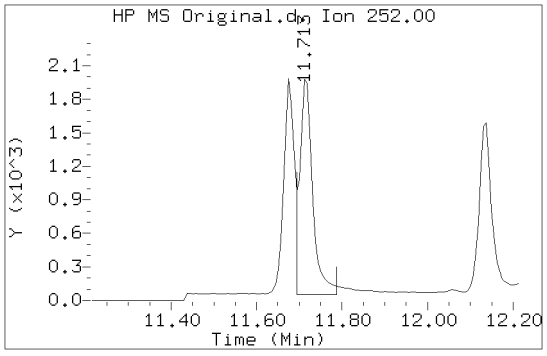


Benzo(k)fluoranthene (207-08-9)

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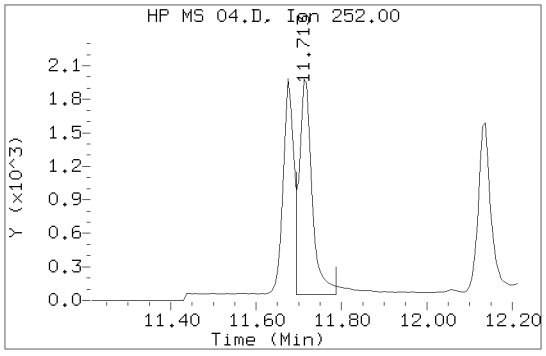
BEFORE

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham

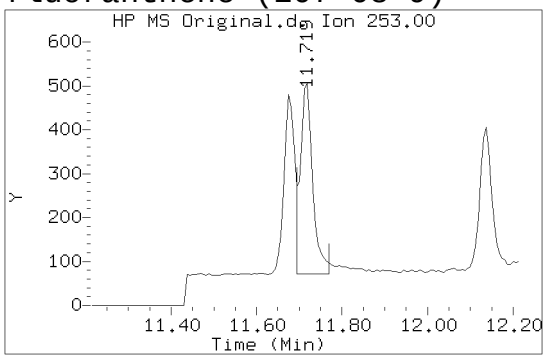


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LabSampID : PAHSIM-0.010

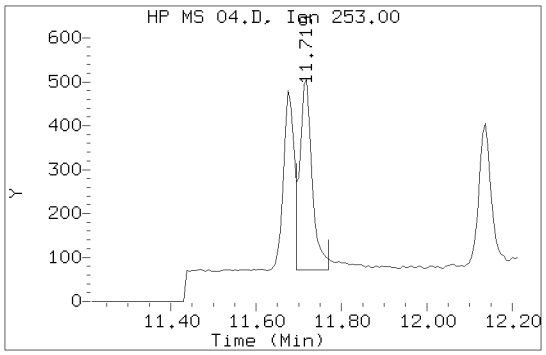
Benzo(k)fluoranthene (207-08-9)

Reason Code:

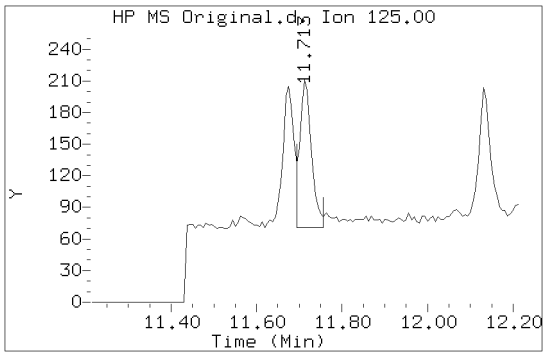
BEFORE
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AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



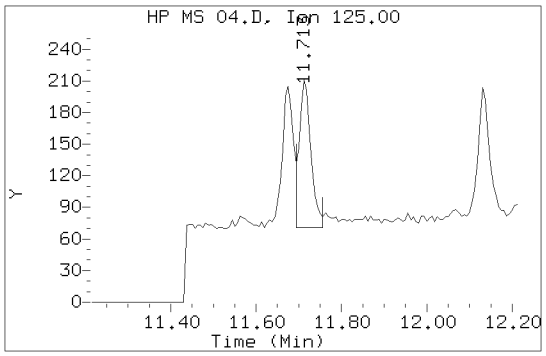
AFTER
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AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



BEFORE
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AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



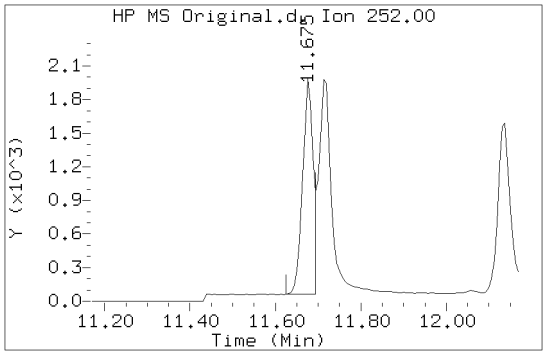
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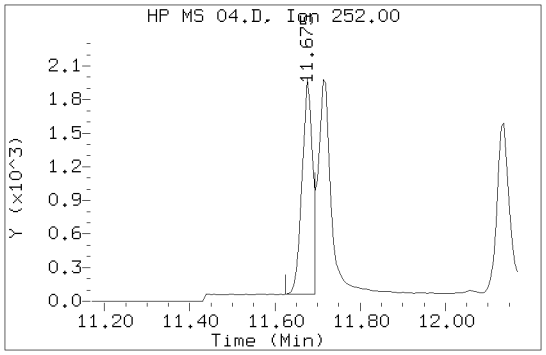
Benzo(b)fluoranthene (205-99-2)

Reason Code:

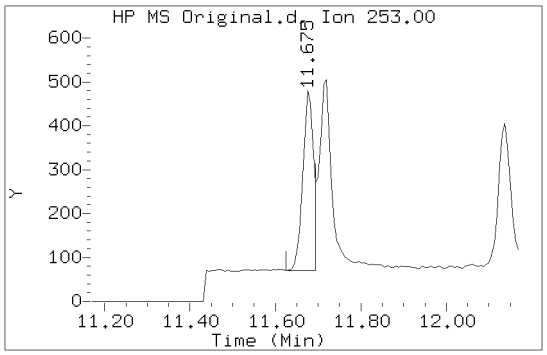
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HEIGHT
1920
18-Dec-2023
10:16
linh
pham



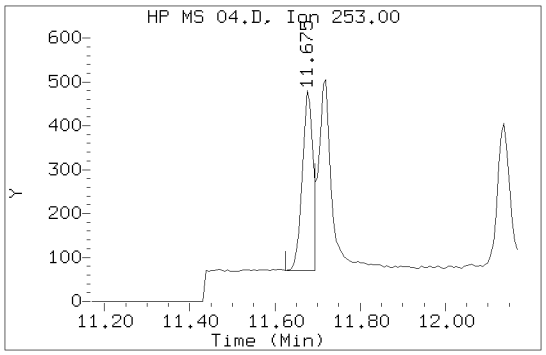
AFTER
MASS
252
AREA
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HEIGHT
1920
18-Dec-2023
10:16
linh
pham



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



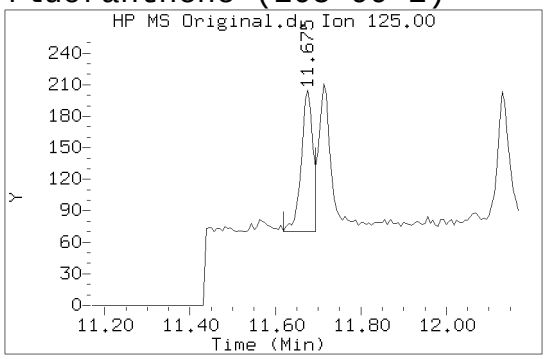
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(b)fluoranthene (205-99-2)

Reason Code:

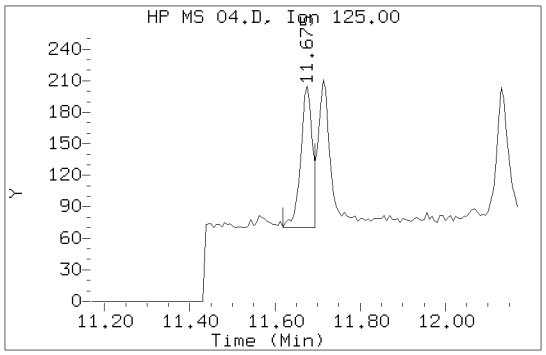
BEFORE

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

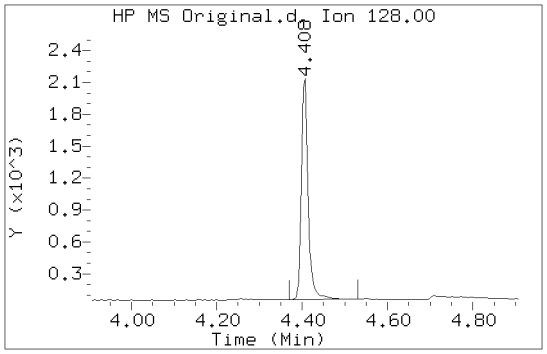


Naphthalene (91-20-3)

Reason Code:

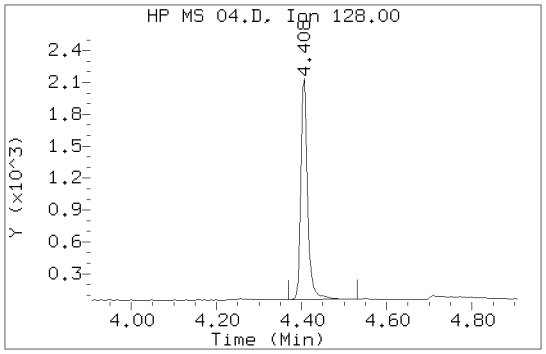
BEFORE

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



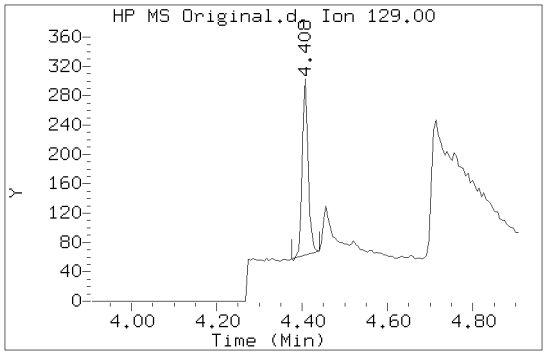
AFTER

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



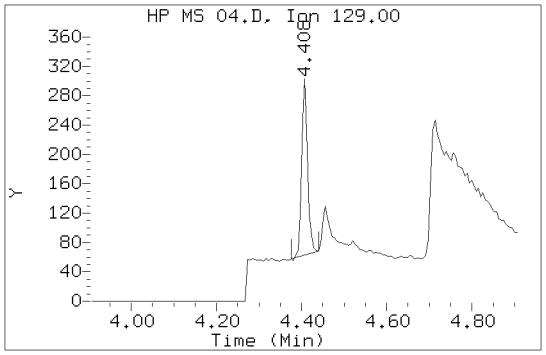
BEFORE

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

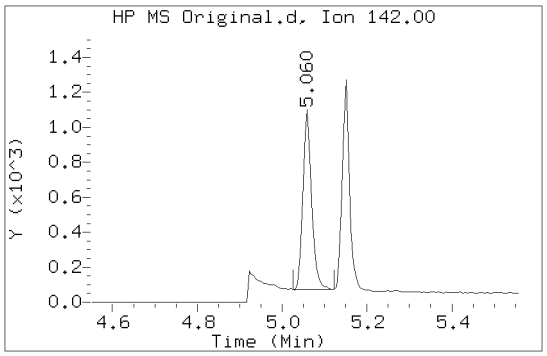


2-Methylnaphthalene (91-57-6)

Reason Code:

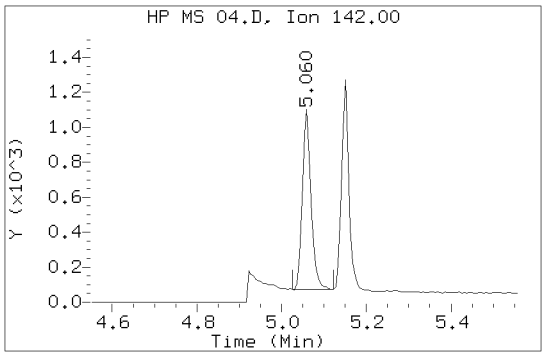
BEFORE

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



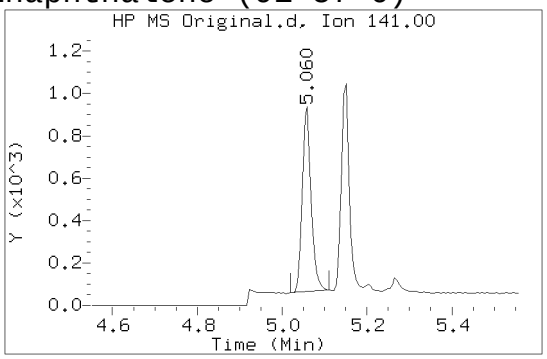
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

2-Methylnaphthalene (91-57-6)

Reason Code:

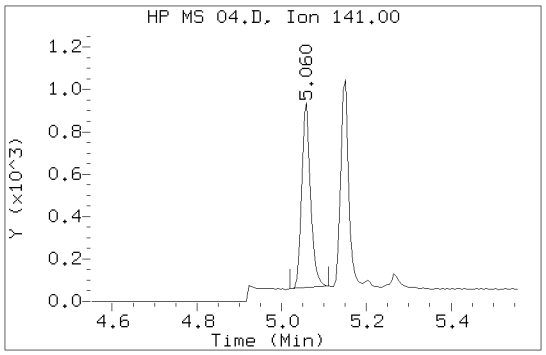
BEFORE

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

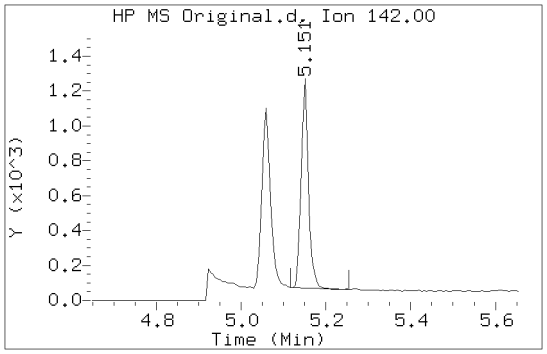


1-Methylnaphthalene (90-12-0)

Reason Code:

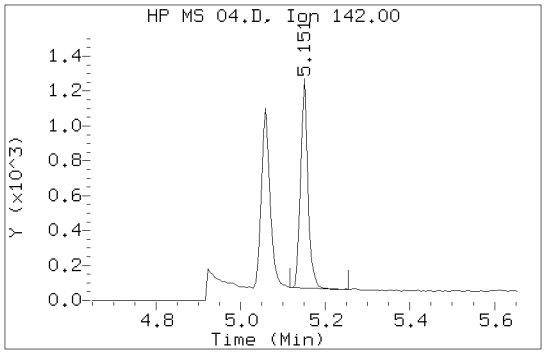
BEFORE

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



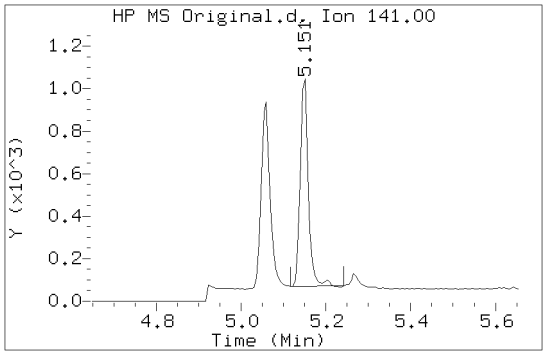
AFTER

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



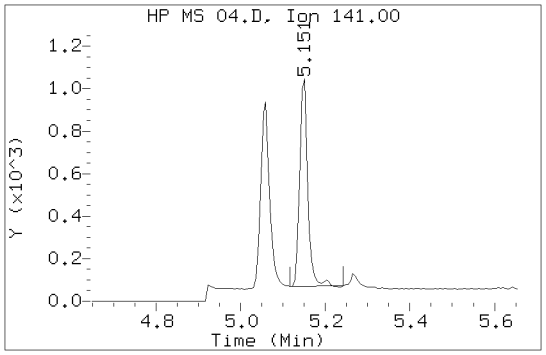
BEFORE

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

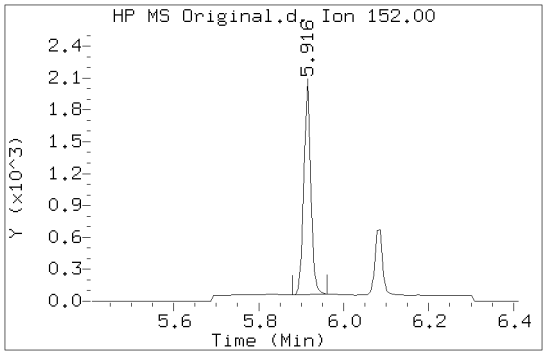


Acenaphthylene (208-96-8)

Reason Code:

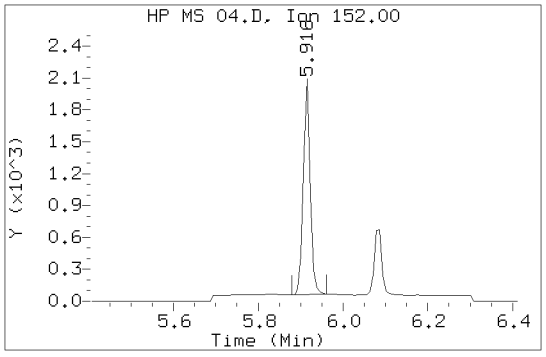
BEFORE

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



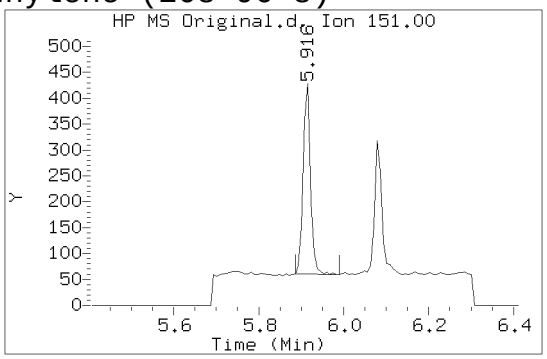
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthylene (208-96-8)

Reason Code:

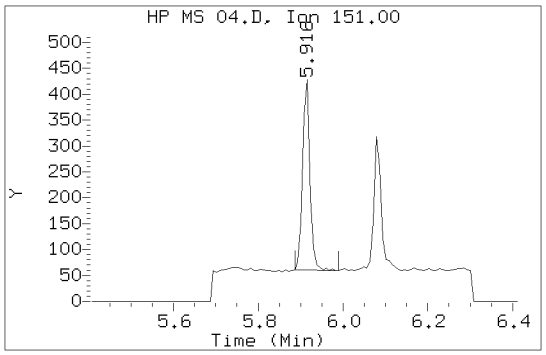
BEFORE

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



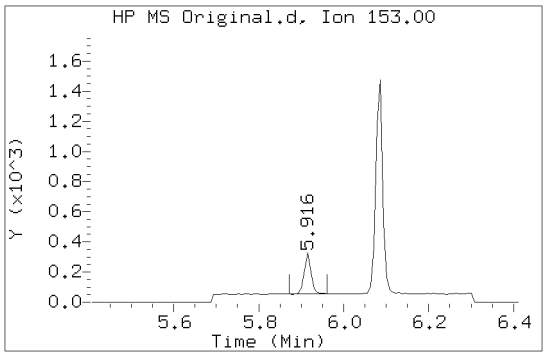
AFTER

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



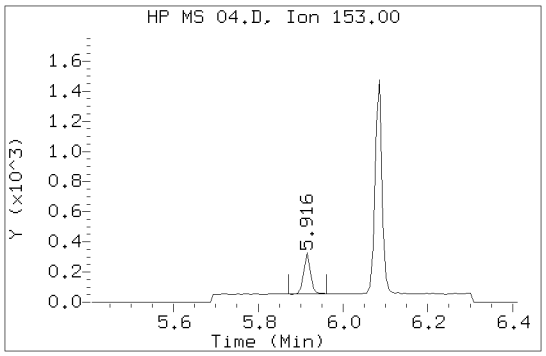
BEFORE

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

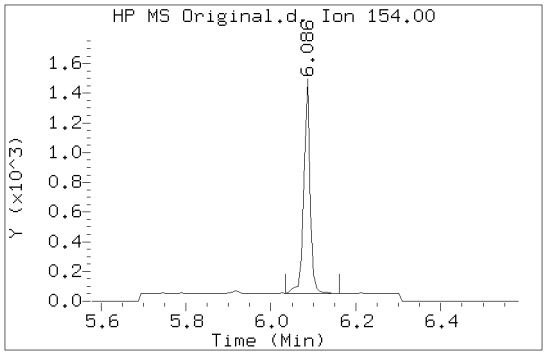


Acenaphthene (83-32-9)

Reason Code:

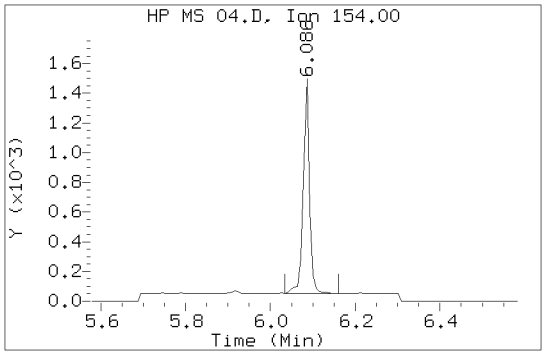
BEFORE

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



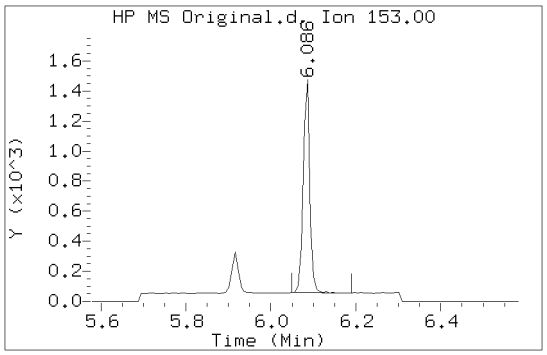
AFTER

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



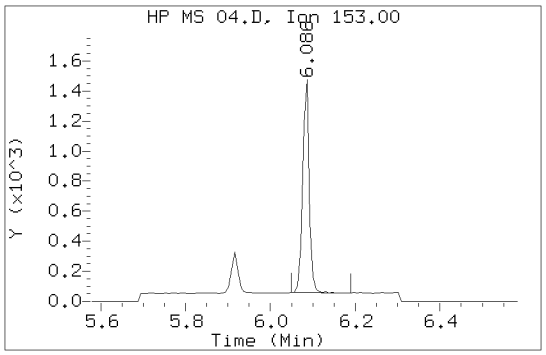
BEFORE

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



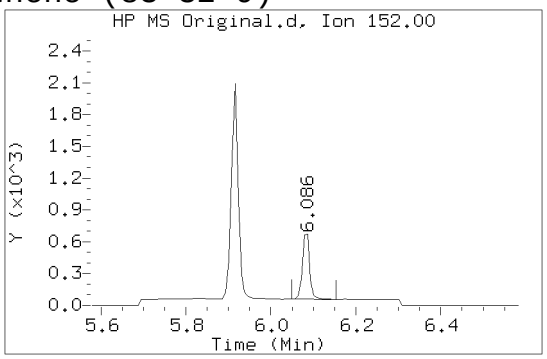
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthene (83-32-9)

Reason Code:

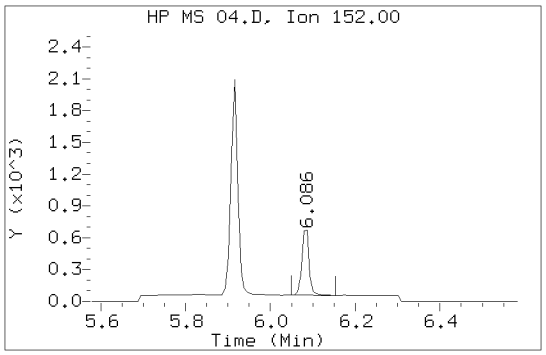
BEFORE

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

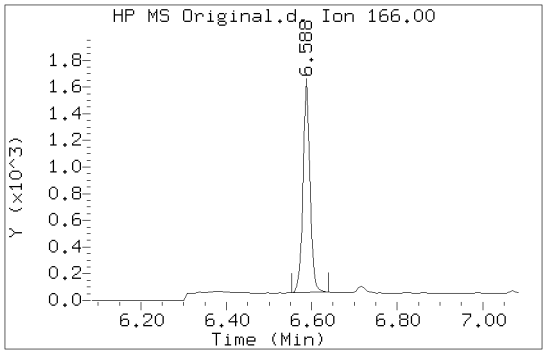


Fluorene (86-73-7)

Reason Code:

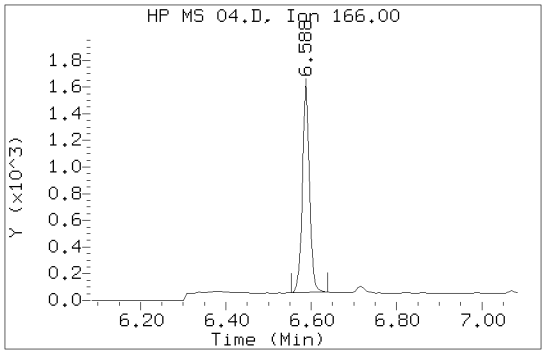
BEFORE

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



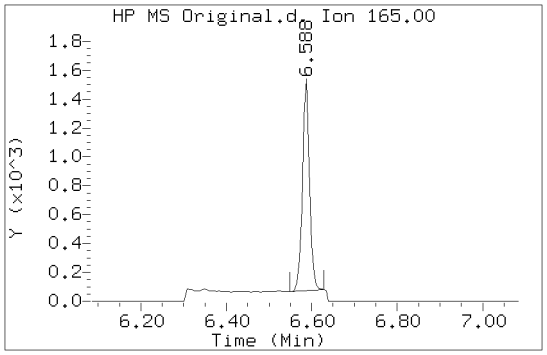
AFTER

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



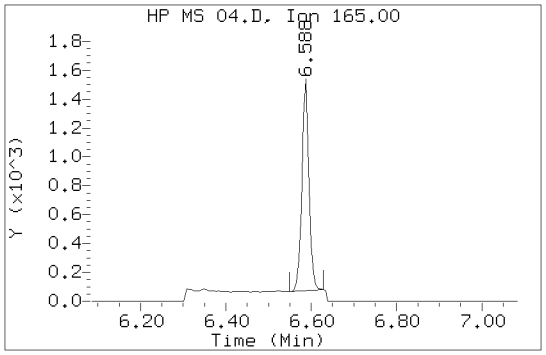
BEFORE

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



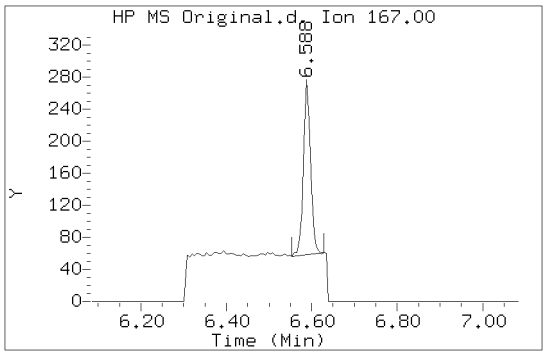
AFTER

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



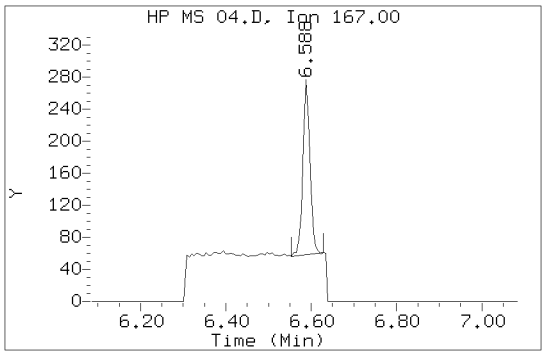
BEFORE

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



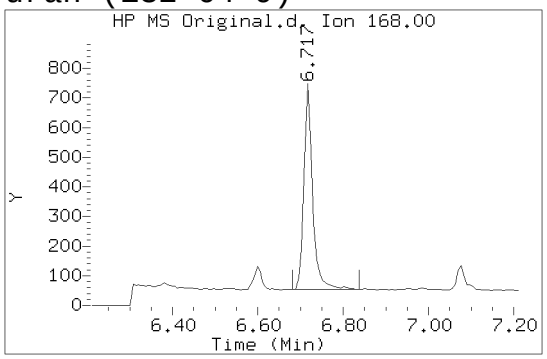
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzofuran (132-64-9)

Reason Code:

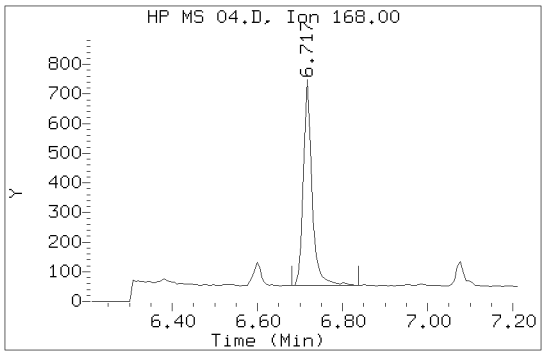
BEFORE

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



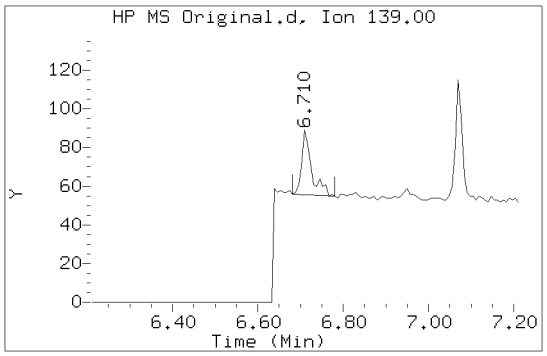
AFTER

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



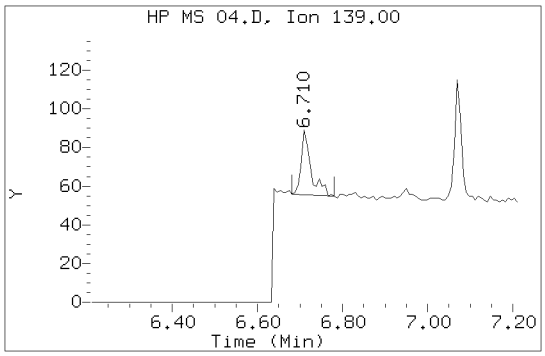
BEFORE

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

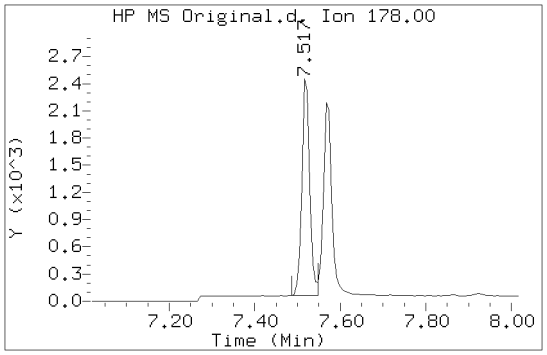


Phenanthrene (85-01-8)

Reason Code:

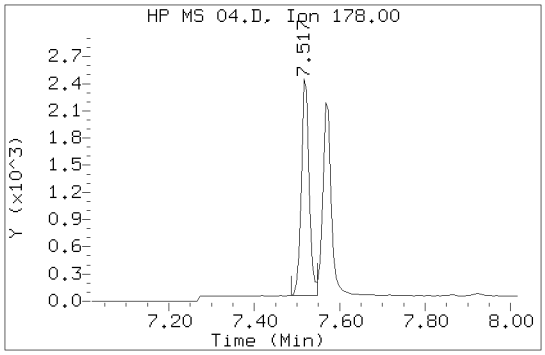
BEFORE

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



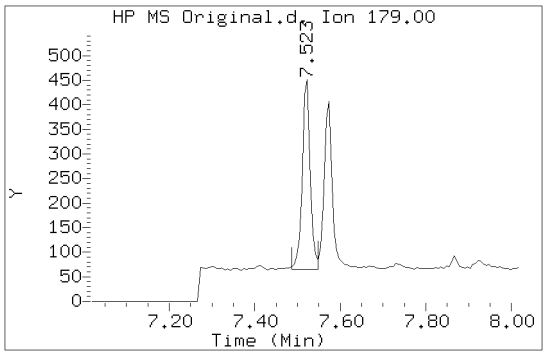
AFTER

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



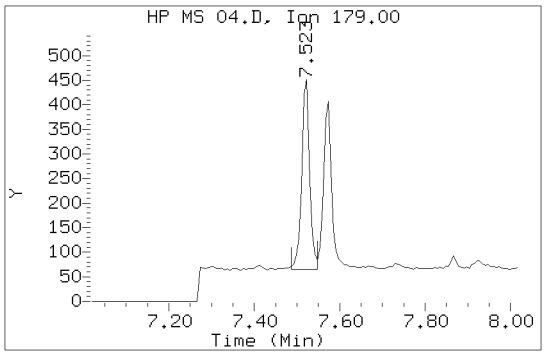
BEFORE

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



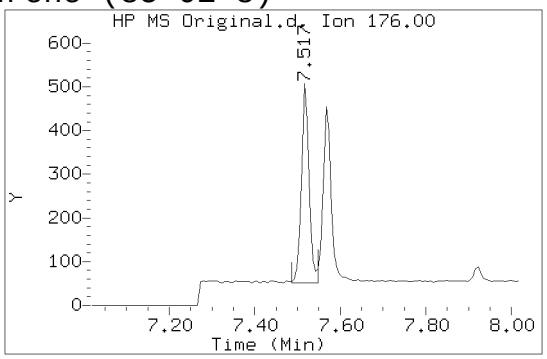
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Phenanthrene (85-01-8)

Reason Code:

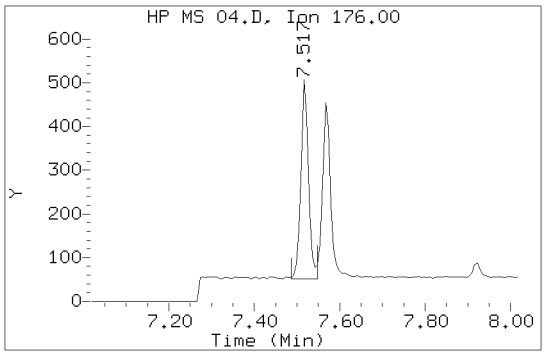
BEFORE

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

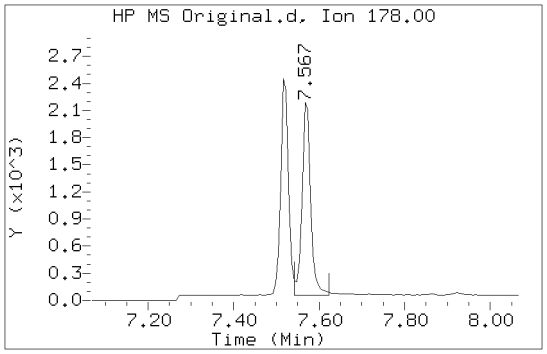


Anthracene (120-12-7)

Reason Code:

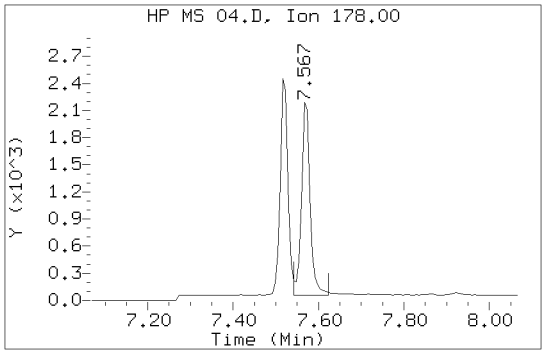
BEFORE

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



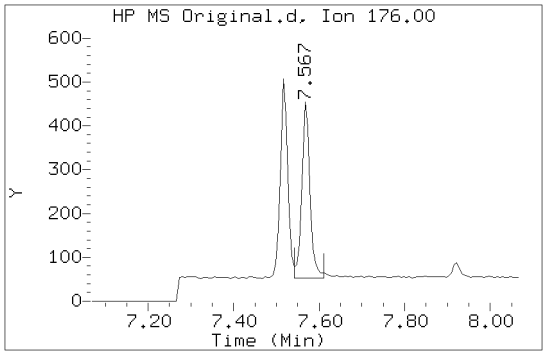
AFTER

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



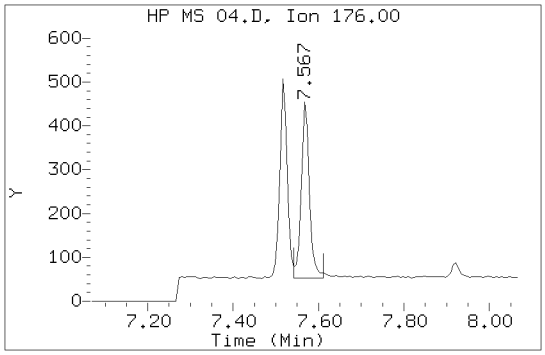
BEFORE

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



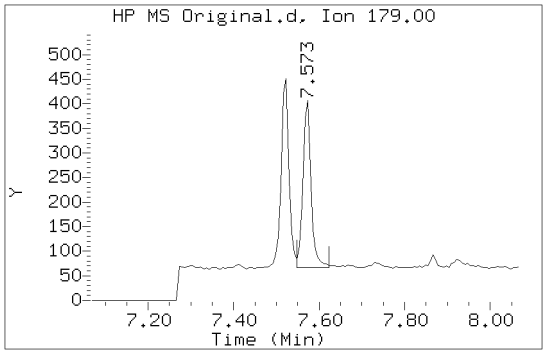
AFTER

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



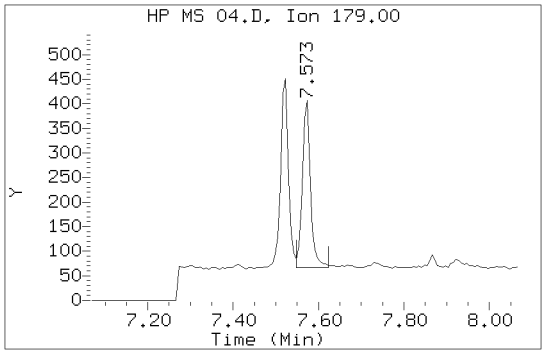
BEFORE

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



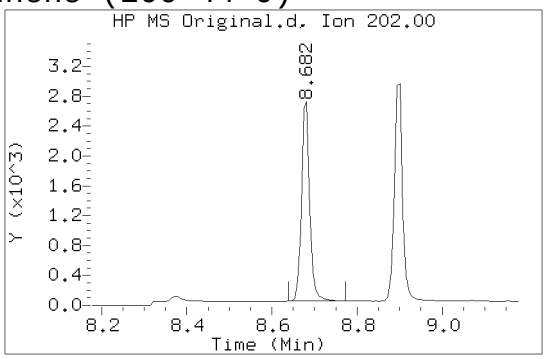
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Fluoranthene (206-44-0)

Reason Code:

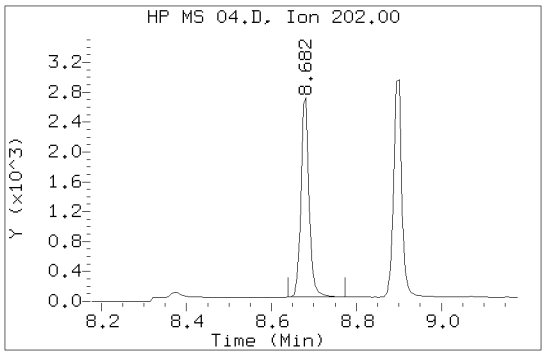
BEFORE

MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



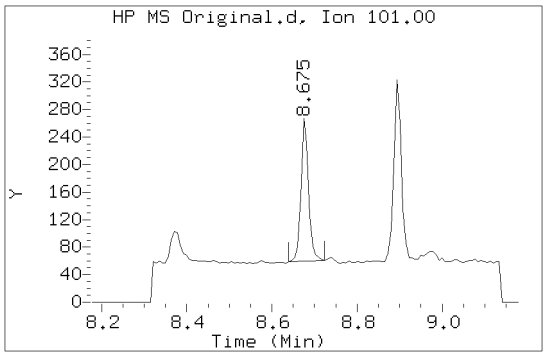
AFTER

MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



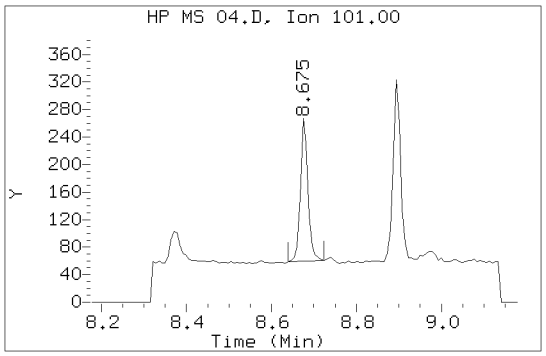
BEFORE

MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



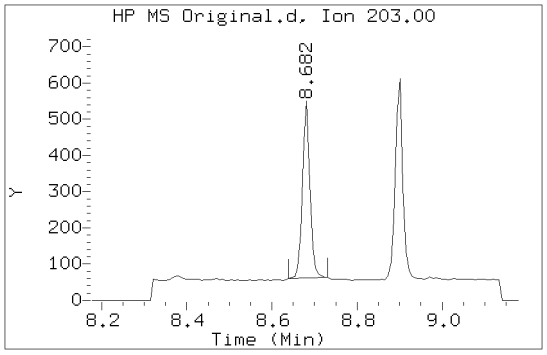
AFTER

MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



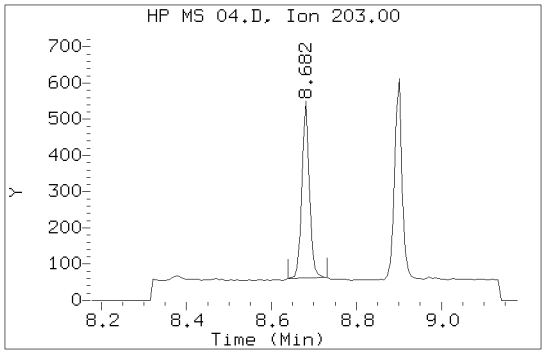
BEFORE

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

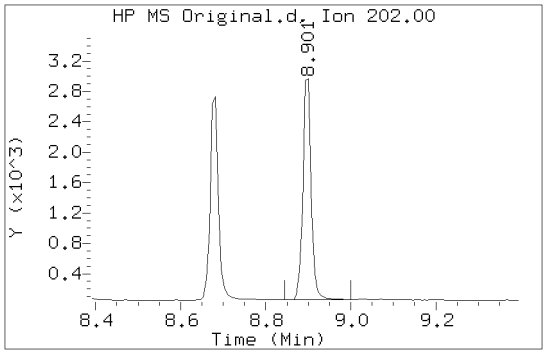


Pyrene (129-00-0)

Reason Code:

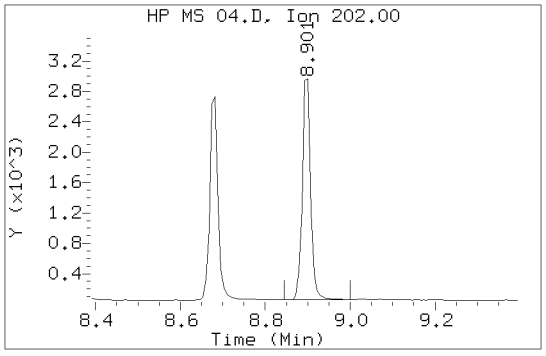
BEFORE

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



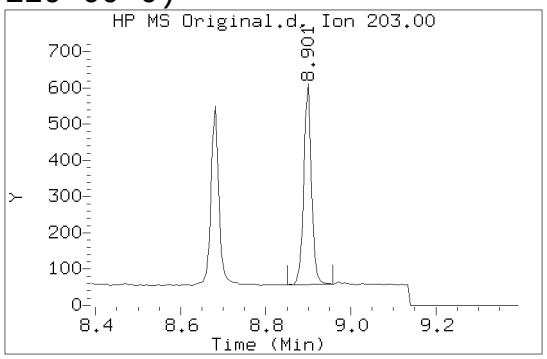
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Pyrene (129-00-0)

Reason Code:

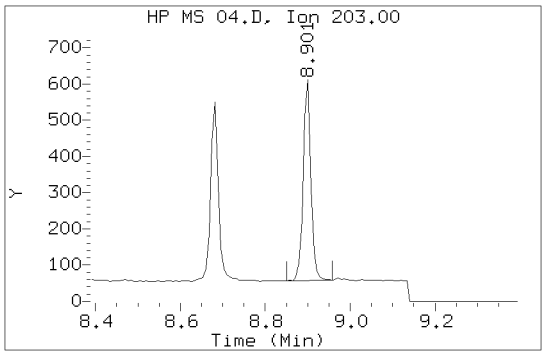
BEFORE

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



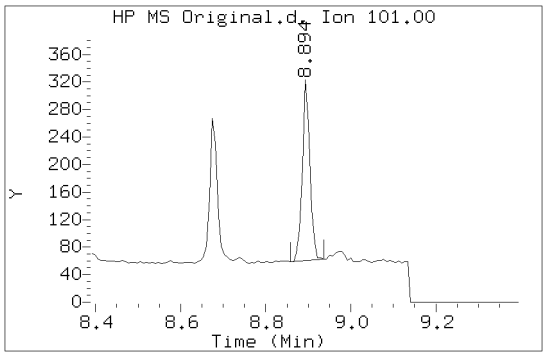
AFTER

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



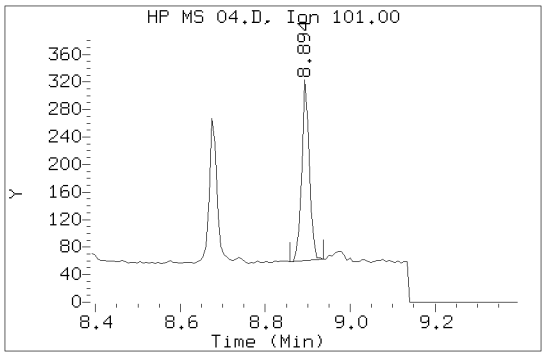
BEFORE

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

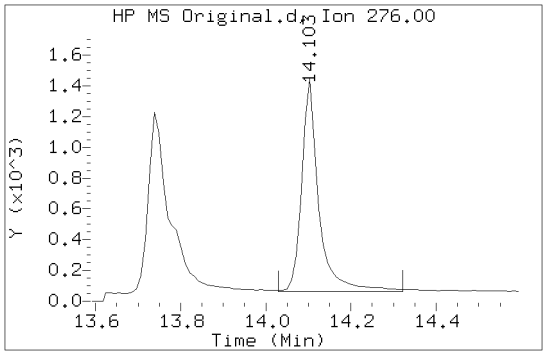


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

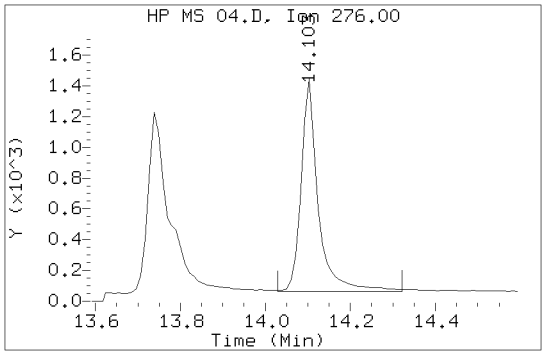
BEFORE

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



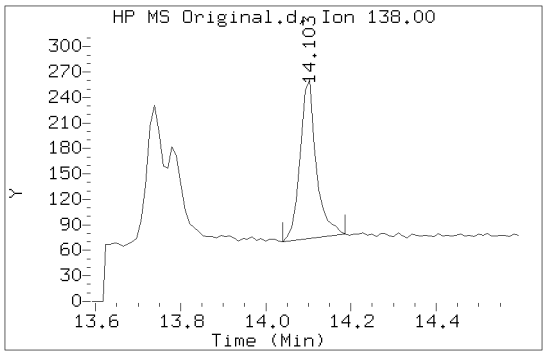
AFTER

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



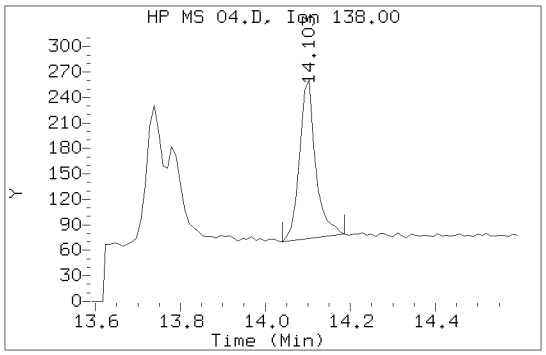
BEFORE

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



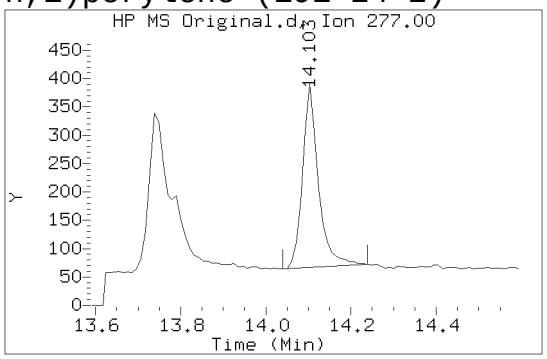
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

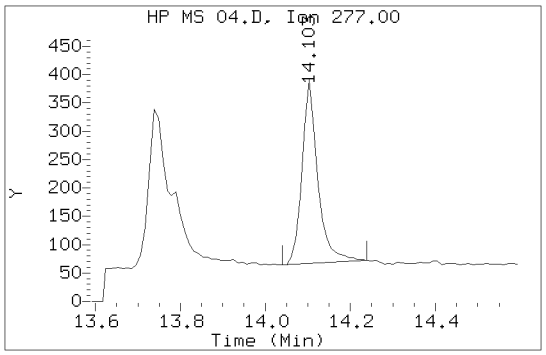
BEFORE

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

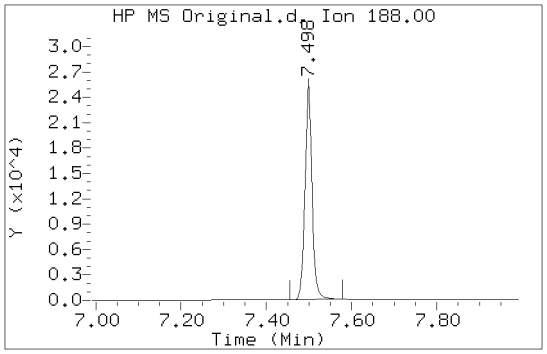


Phenanthrene-d10 (1517-22-2)

Reason Code:

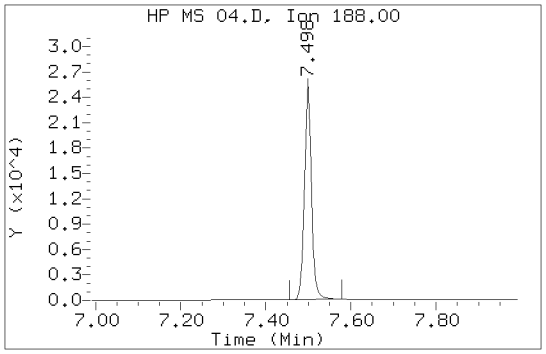
BEFORE

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



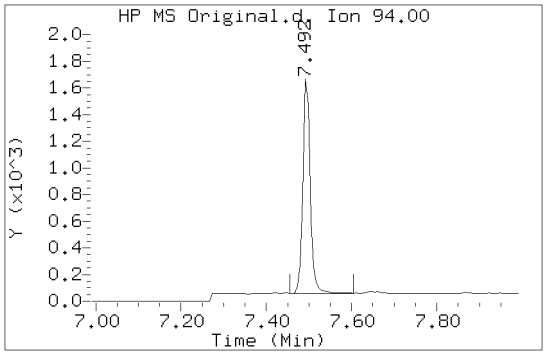
AFTER

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



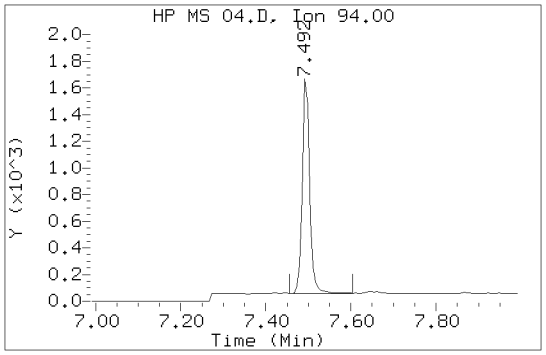
BEFORE

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



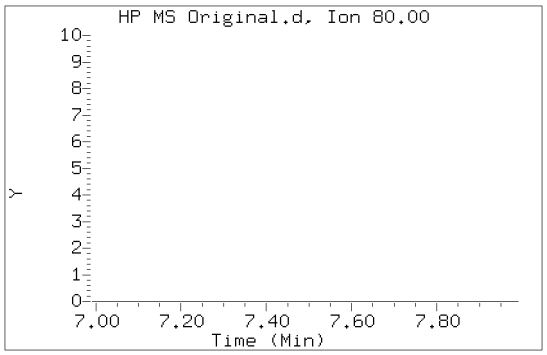
AFTER

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



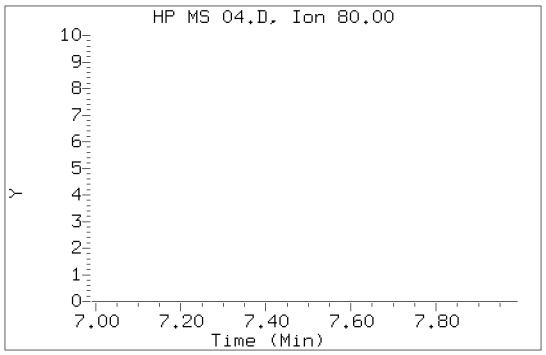
BEFORE

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



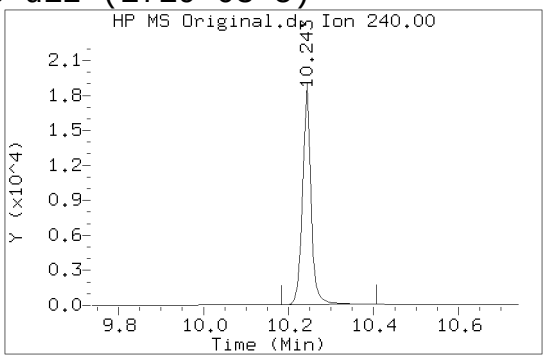
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Chrysene-d12 (1719-03-5)

Reason Code:

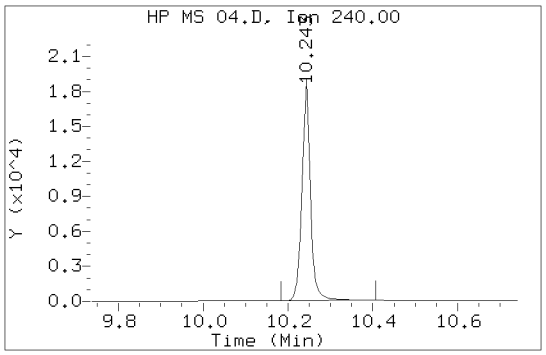
BEFORE

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



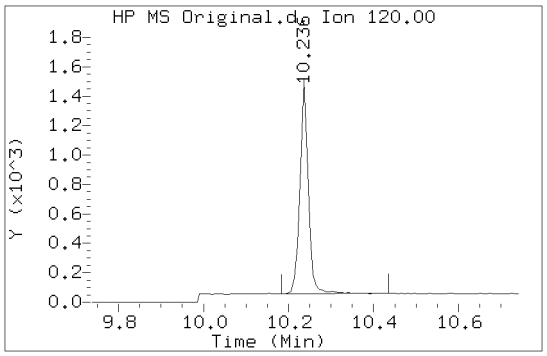
AFTER

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



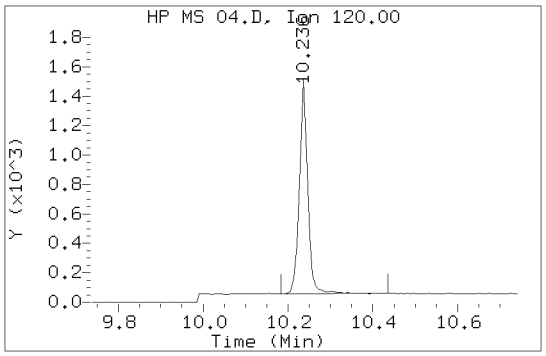
BEFORE

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



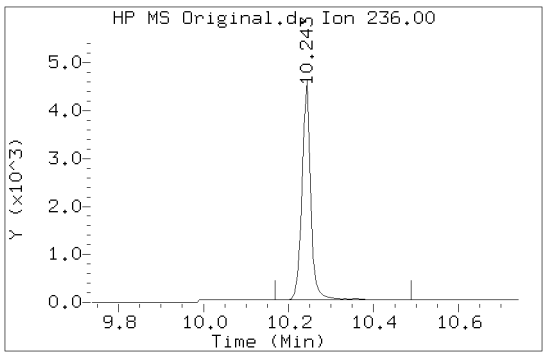
AFTER

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



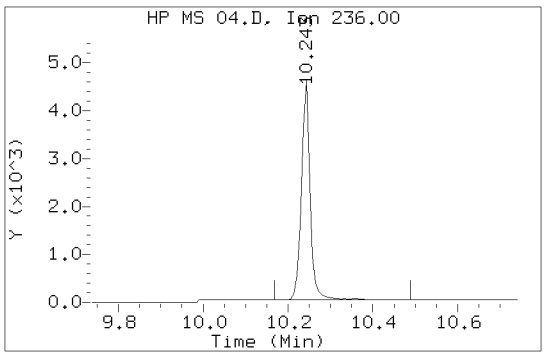
BEFORE

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

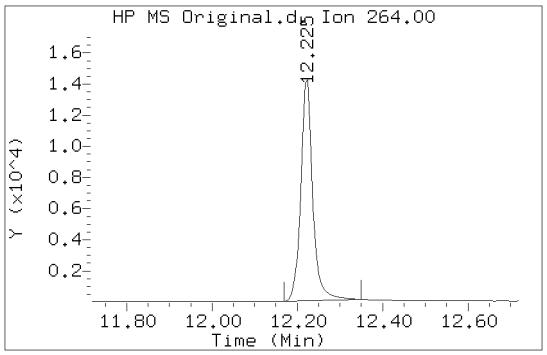


Perylene-d12 (1520-96-3)

Reason Code:

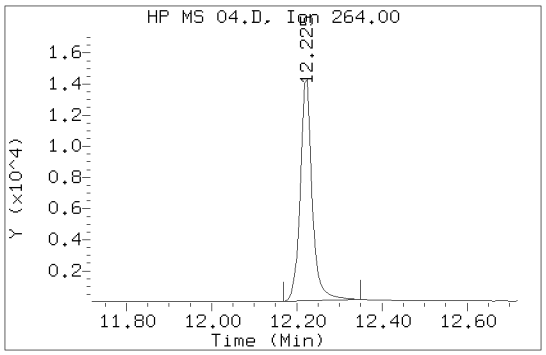
BEFORE

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



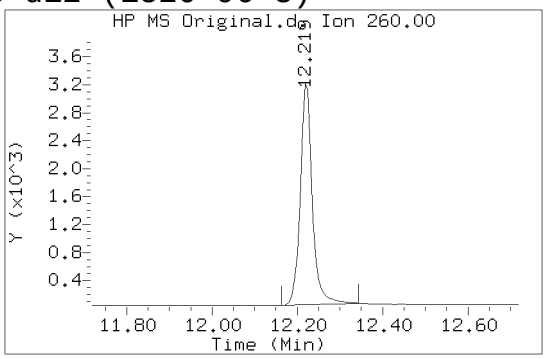
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Perylene-d12 (1520-96-3)

Reason Code:

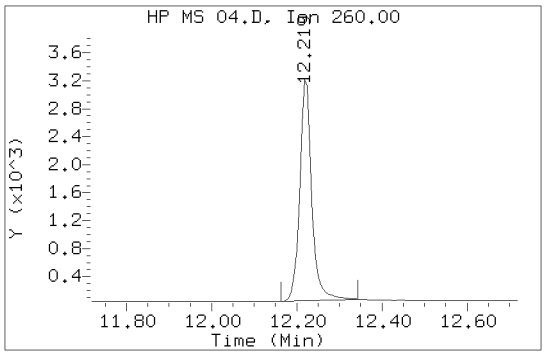
BEFORE

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



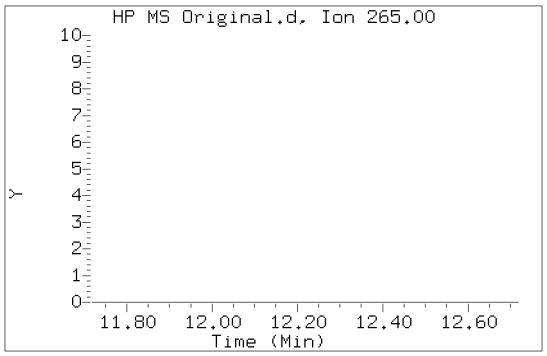
AFTER

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AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



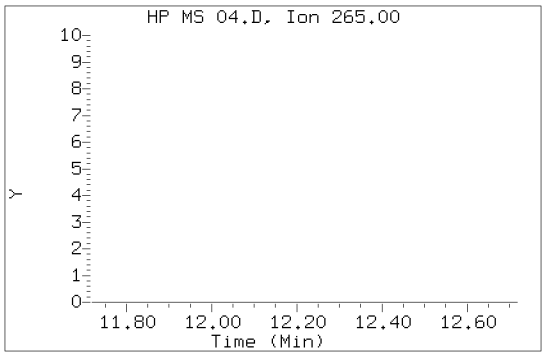
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18-Dec-2023
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pham



AFTER

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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham

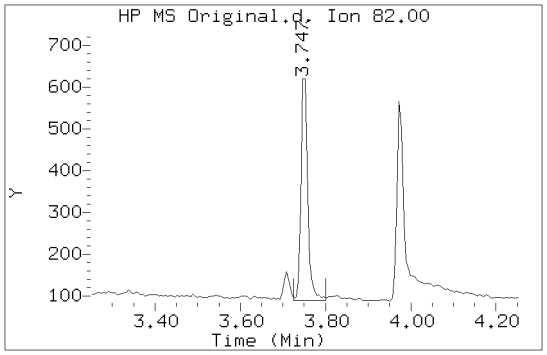


Nitrobenzene-d5 (4165-60-0)

Reason Code:

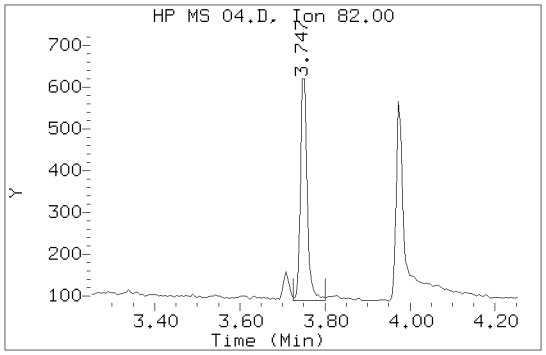
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588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



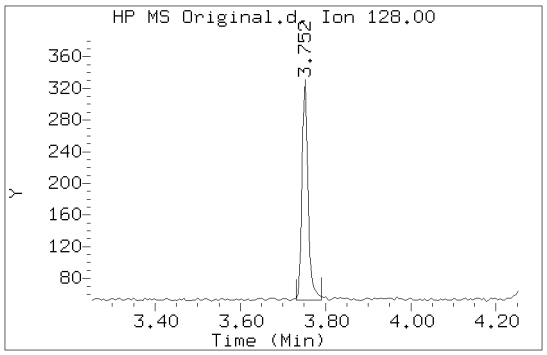
AFTER

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AREA
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HEIGHT
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18-Dec-2023
10:16
linh
pham



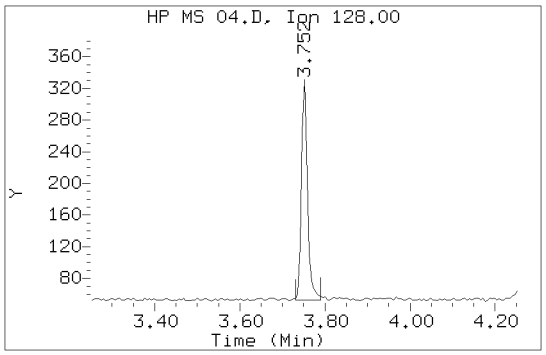
BEFORE

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



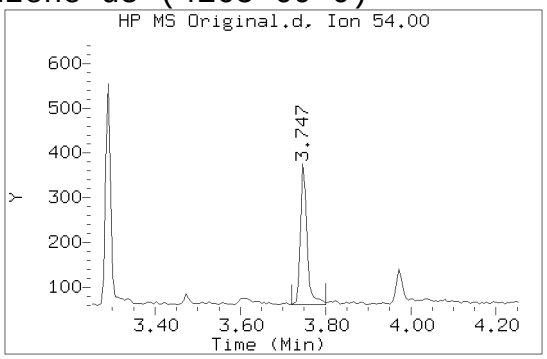
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Nitrobenzene-d5 (4165-60-0)

Reason Code:

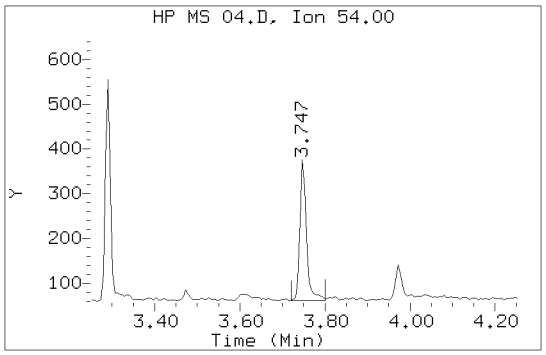
BEFORE

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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

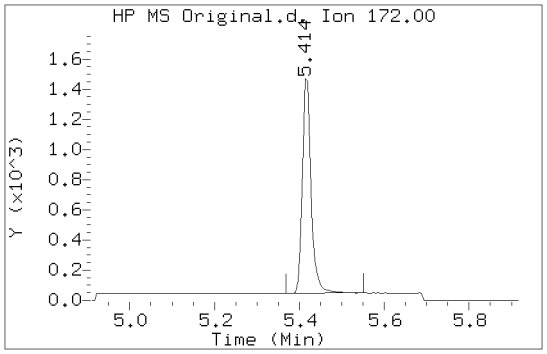


2-Fluorobiphenyl (321-60-8)

Reason Code:

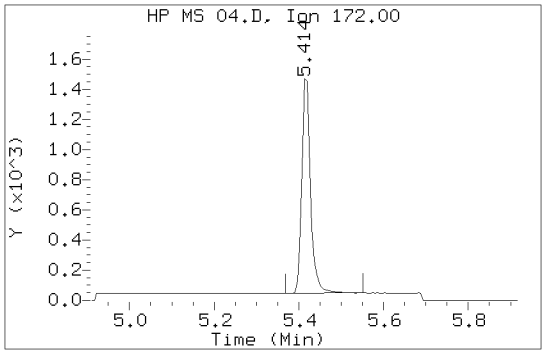
BEFORE

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AREA
2011
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



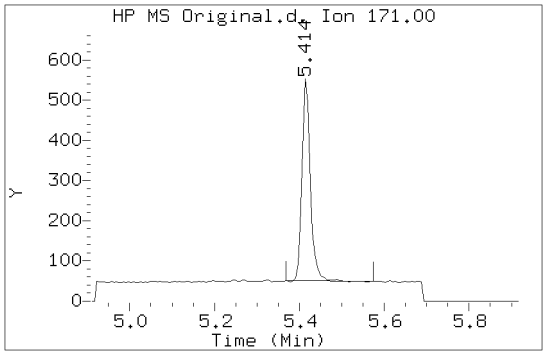
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HEIGHT
1422
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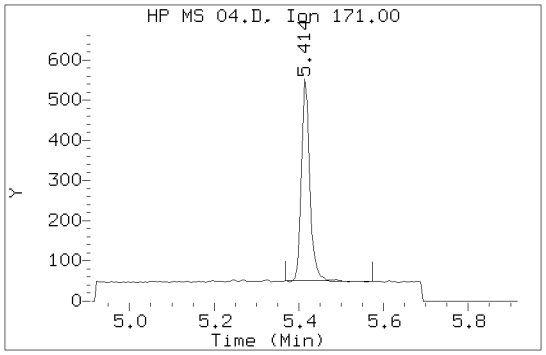
BEFORE

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



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.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\05.D
Lab Smp Id: PAHSIM-0.025 Client Smp ID: PAHSIM-0.025
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)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

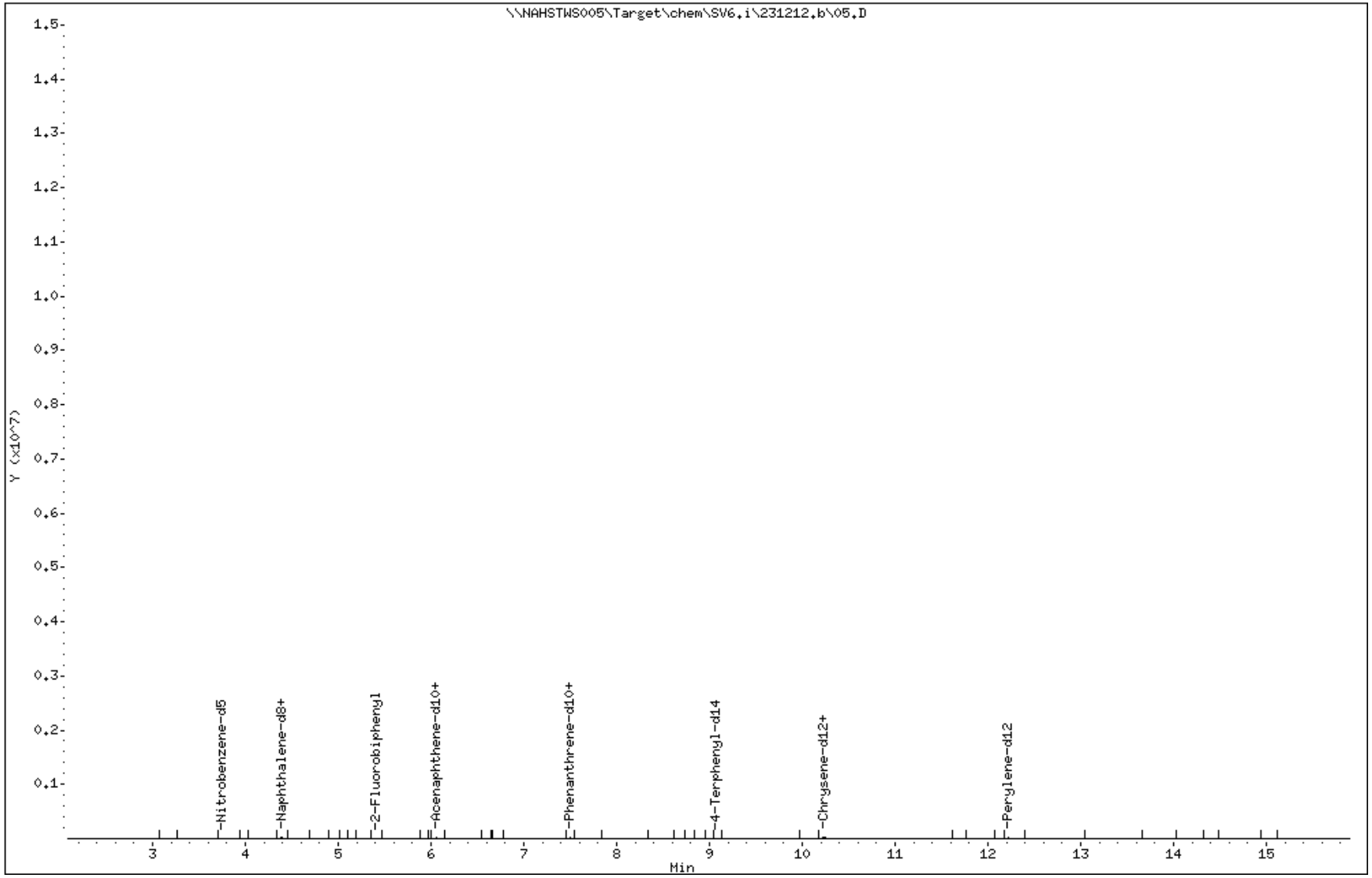
Sample Info: PAHSIM-0.025

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

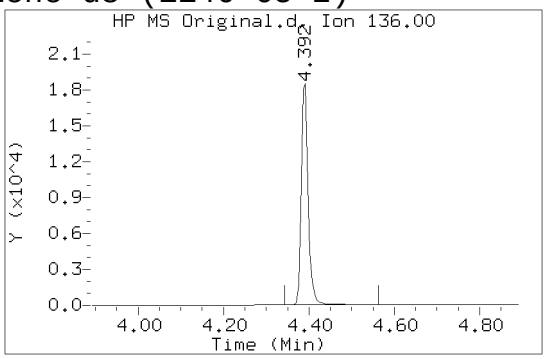


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene-d8 (1146-65-2)

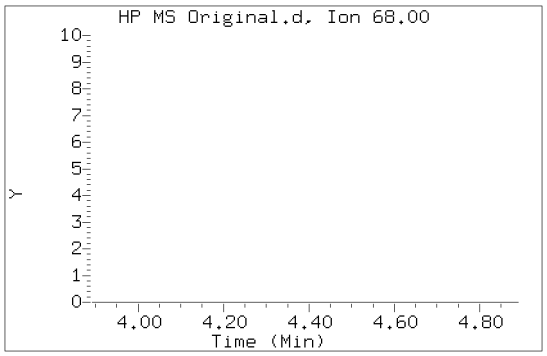
BEFORE

MASS
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AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



BEFORE

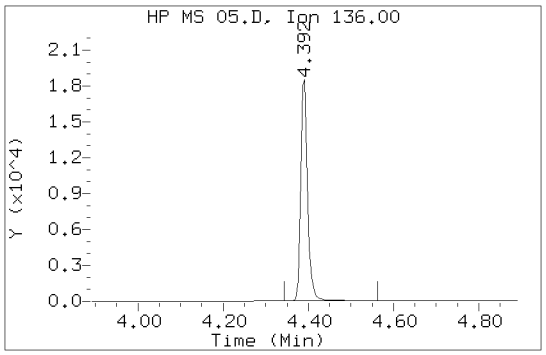
MASS
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HEIGHT
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18-Dec-2023
10:16
linh
pham



Reason Code:

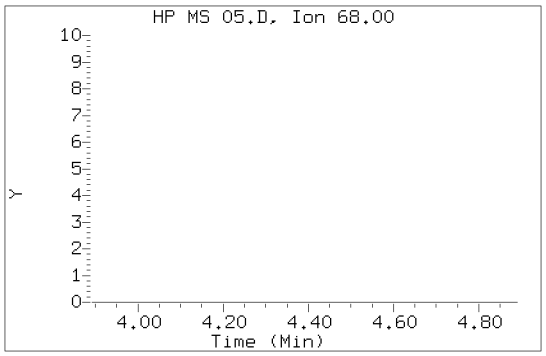
AFTER

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18-Dec-2023
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linh
pham



AFTER

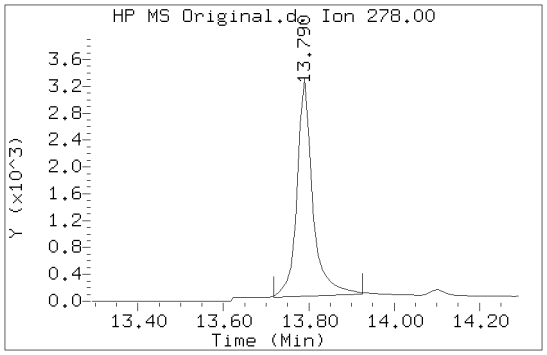
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HEIGHT
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18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

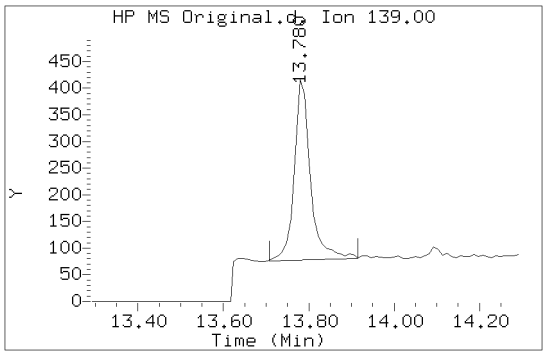
BEFORE

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HEIGHT
3237
18-Dec-2023
10:16
linh
pham



BEFORE

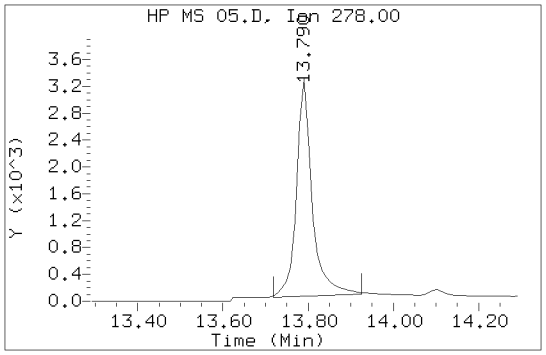
MASS
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AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



Reason Code:

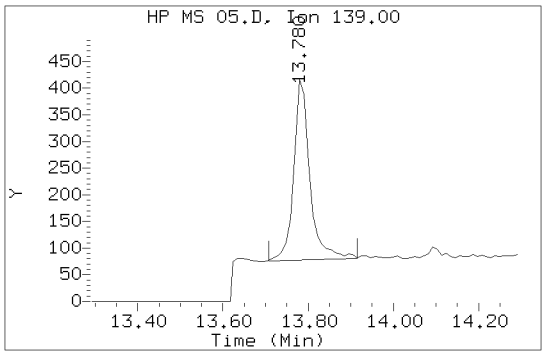
AFTER

MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



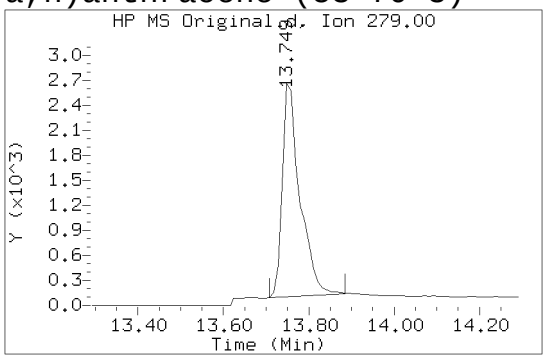
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

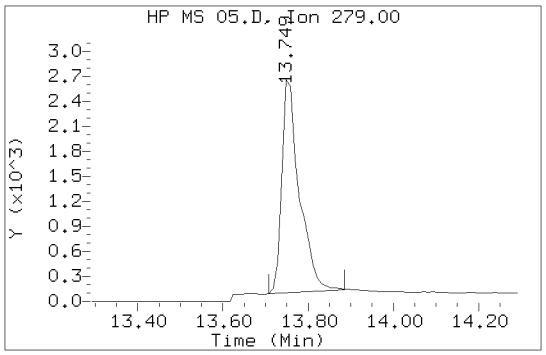
BEFORE

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HEIGHT
2561
18-Dec-2023
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linh
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AFTER

MASS
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AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham

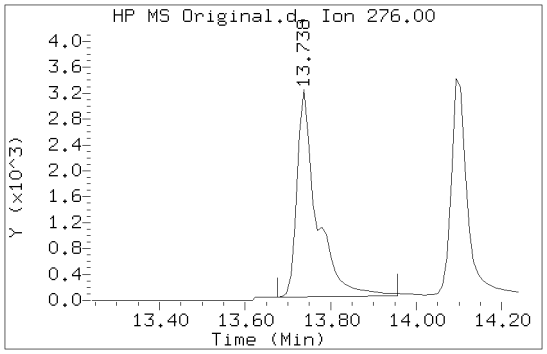


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

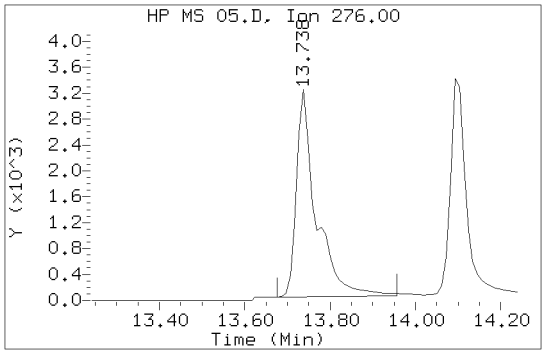
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AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
linh
pham



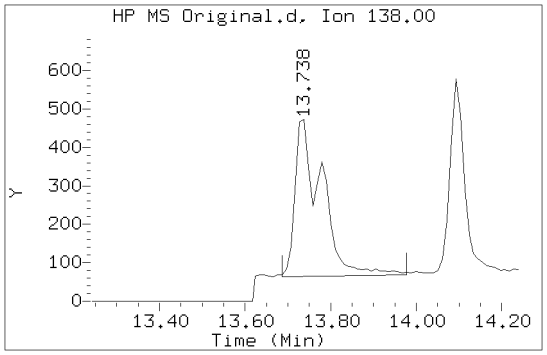
AFTER

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3199
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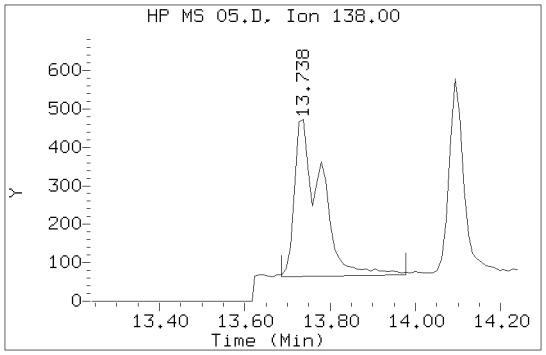
BEFORE

MASS
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AREA
1777
HEIGHT
408
18-Dec-2023
10:16
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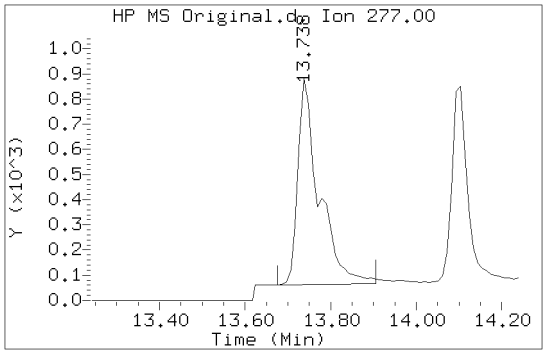
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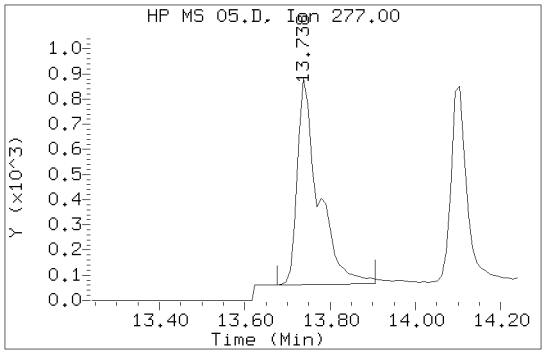
BEFORE

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AREA
2831
HEIGHT
817
18-Dec-2023
10:16
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AFTER

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2831
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817
18-Dec-2023
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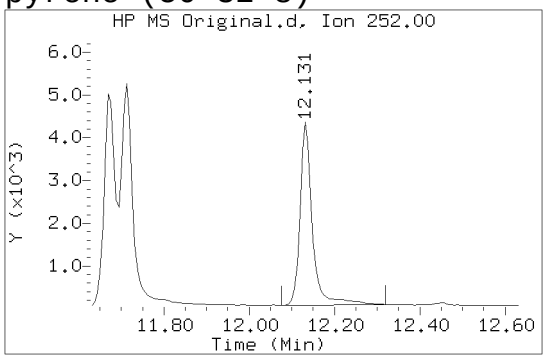


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Inj Date : 12-DEC-2023 14:18
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LabSampID : PAHSIM-0.025

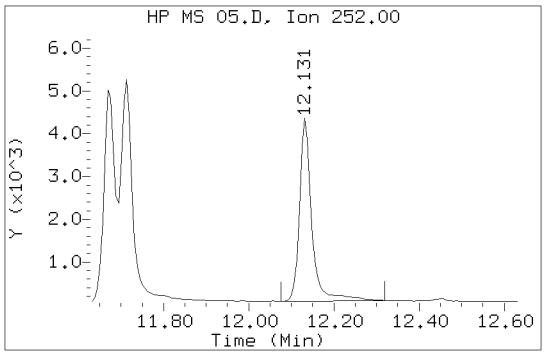
Benzo(a)pyrene (50-32-8)

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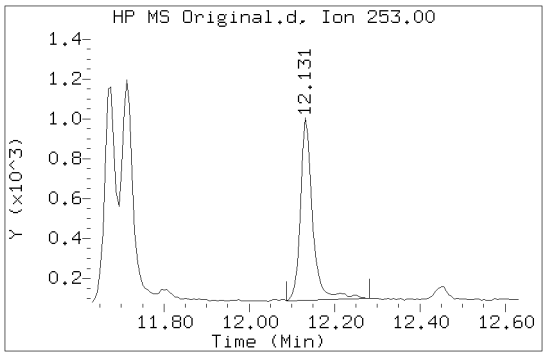
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18-Dec-2023
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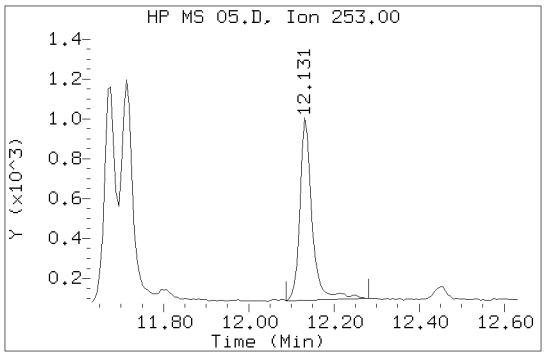
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18-Dec-2023
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linh
pham



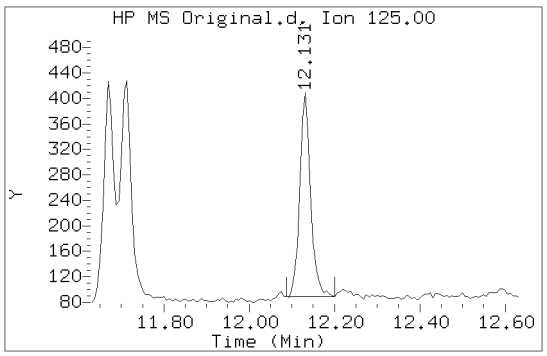
BEFORE
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



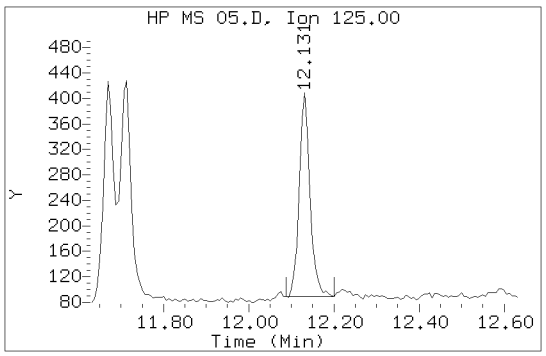
AFTER
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



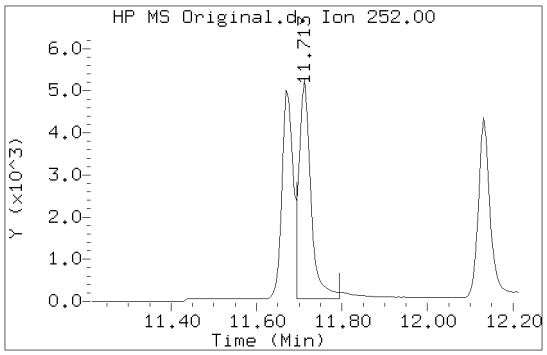
AFTER
MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



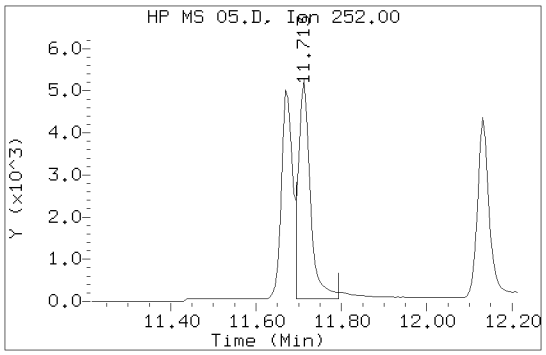
Benzo(k)fluoranthene (207-08-9)

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



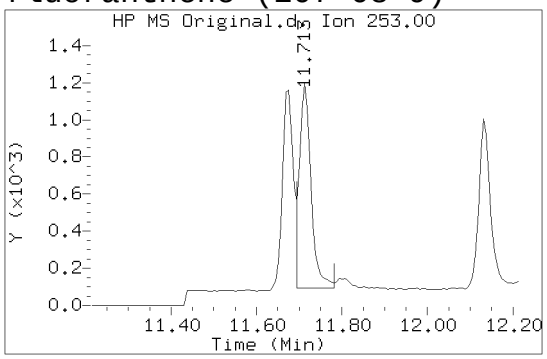
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(k)fluoranthene (207-08-9)

Reason Code:

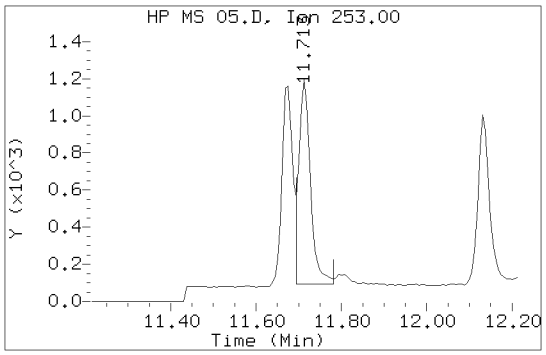
BEFORE

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



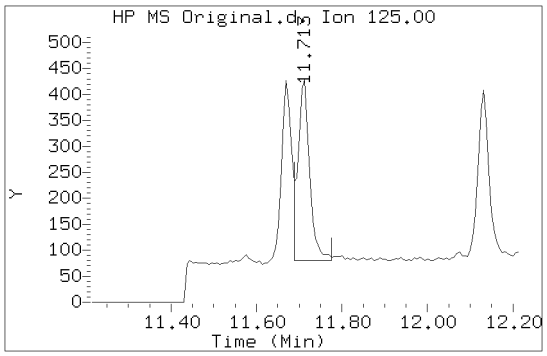
AFTER

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



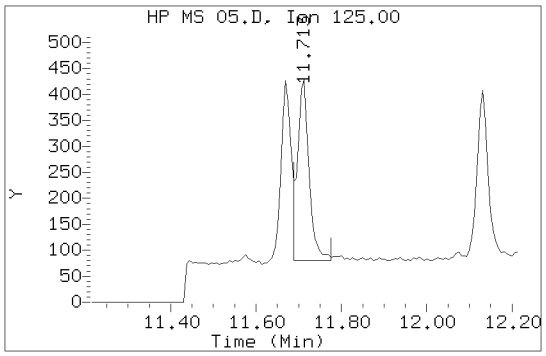
BEFORE

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

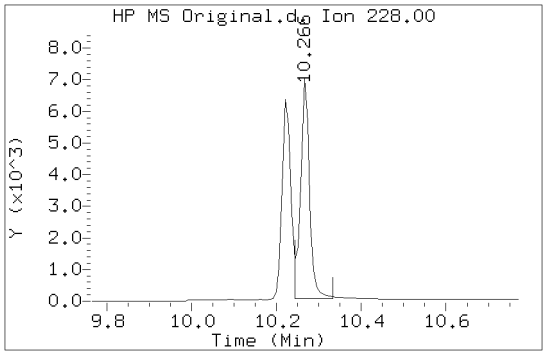


Chrysene (218-01-9)

Reason Code:

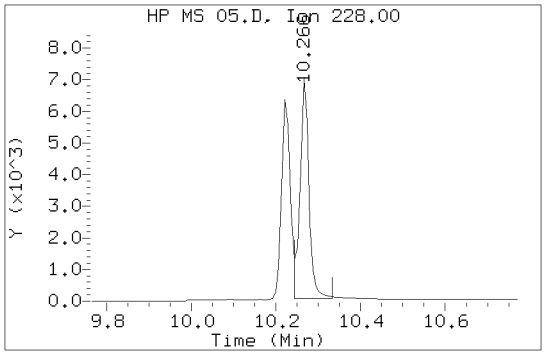
BEFORE

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



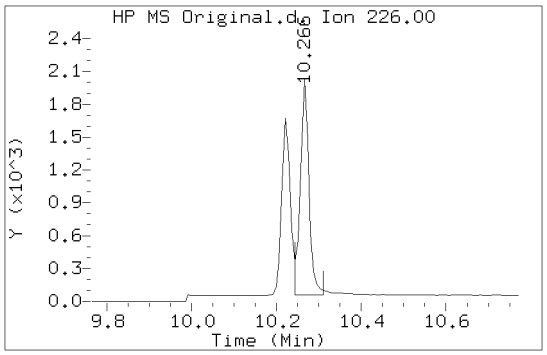
AFTER

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



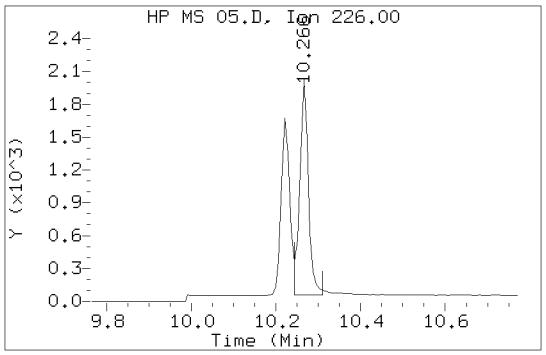
BEFORE

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



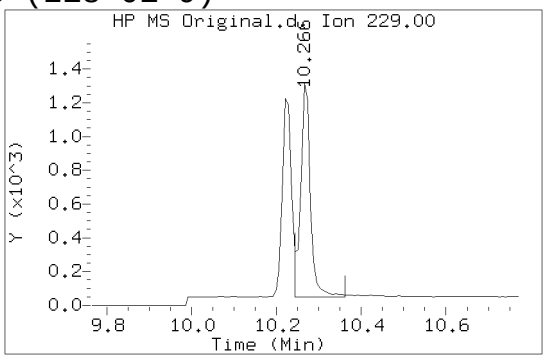
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene (218-01-9)

Reason Code:

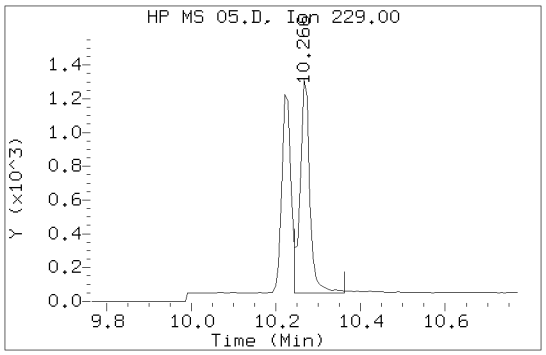
BEFORE

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

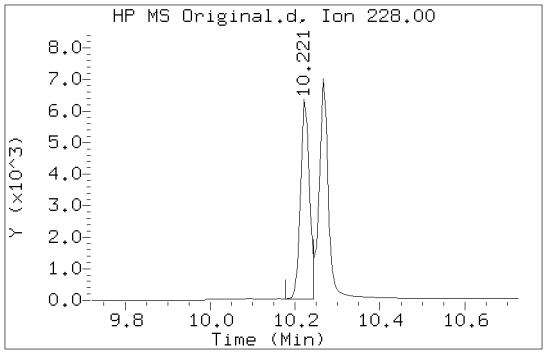


Benzo(a)Anthracene (56-55-3)

Reason Code:

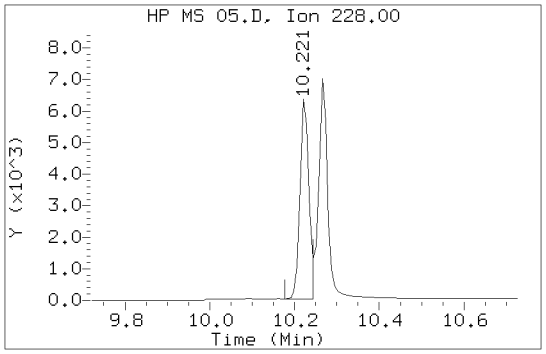
BEFORE

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



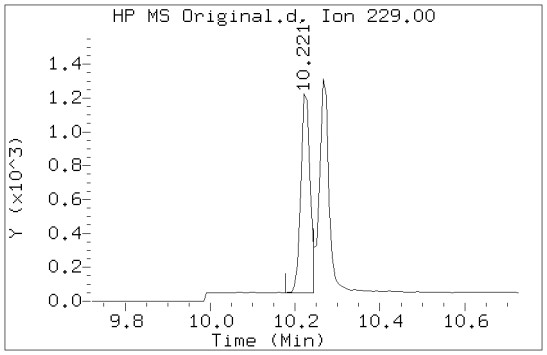
AFTER

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



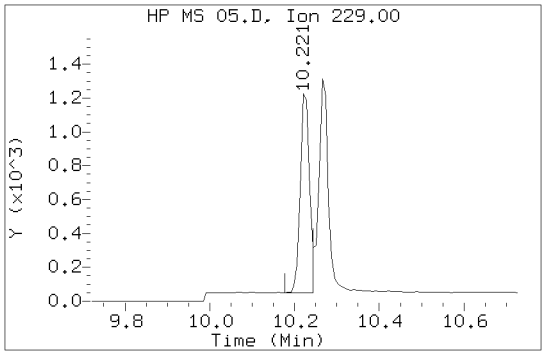
BEFORE

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



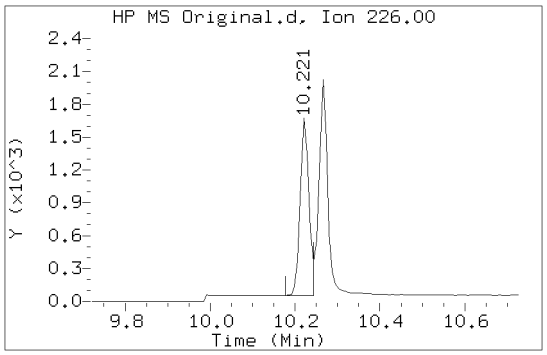
AFTER

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



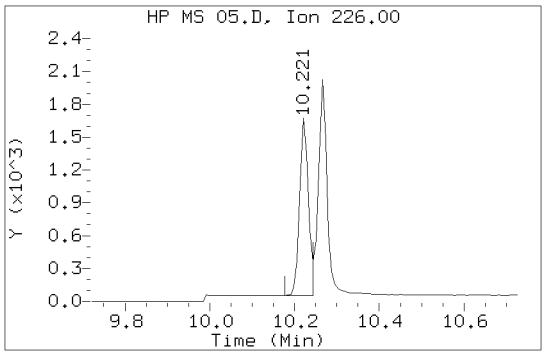
BEFORE

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



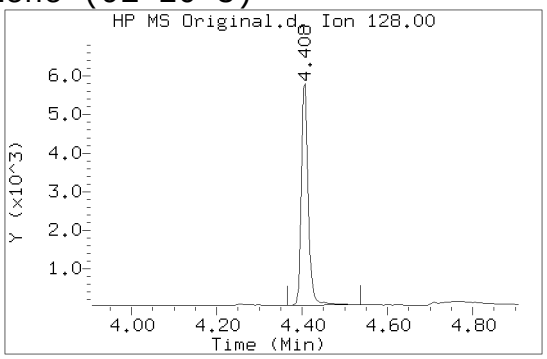
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene (91-20-3)

Reason Code:

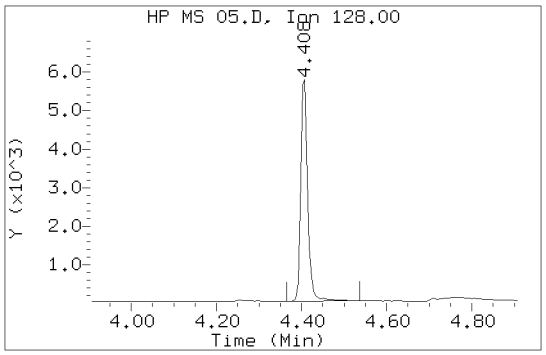
BEFORE

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



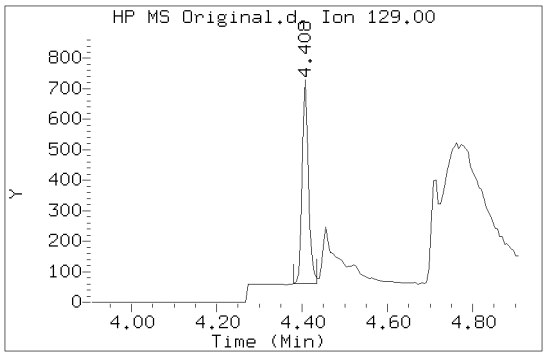
AFTER

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



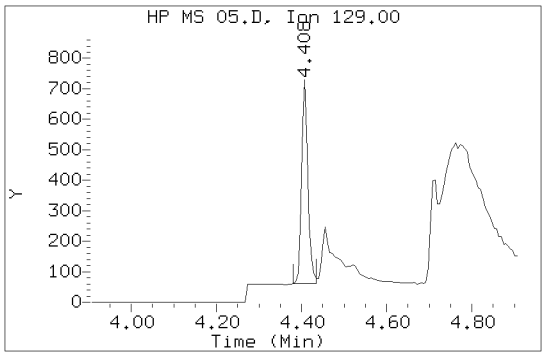
BEFORE

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

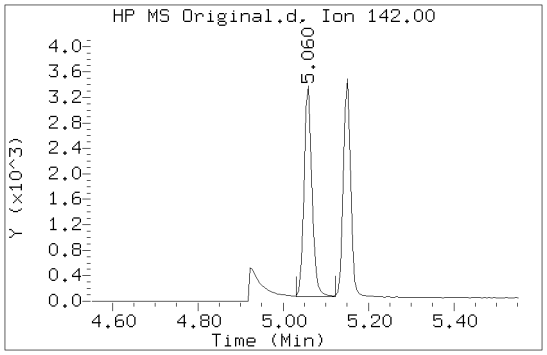


2-Methylnaphthalene (91-57-6)

Reason Code:

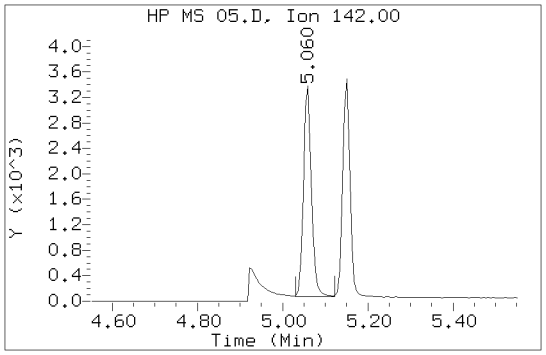
BEFORE

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



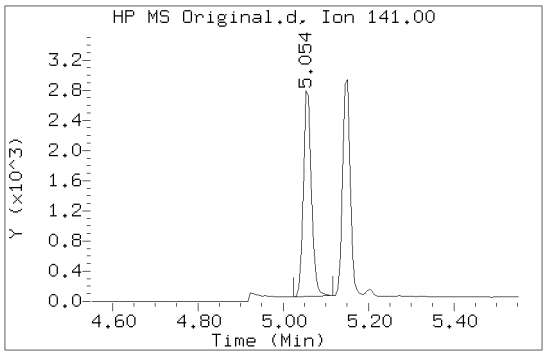
AFTER

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



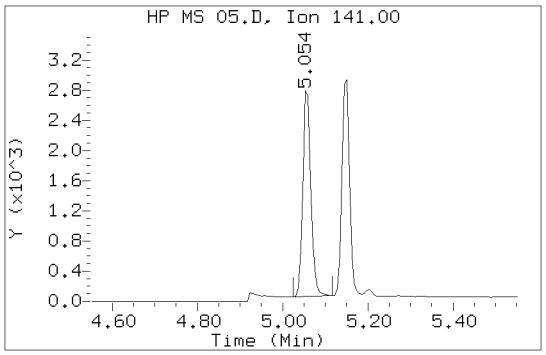
BEFORE

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



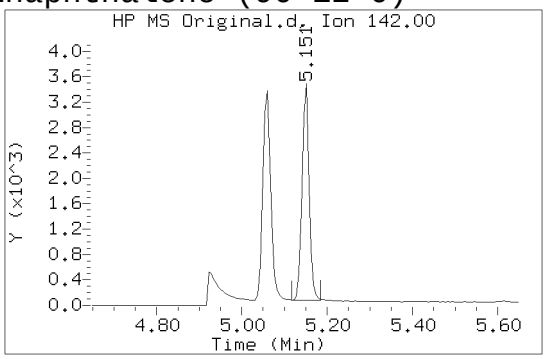
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

1-Methylnaphthalene (90-12-0)

Reason Code:

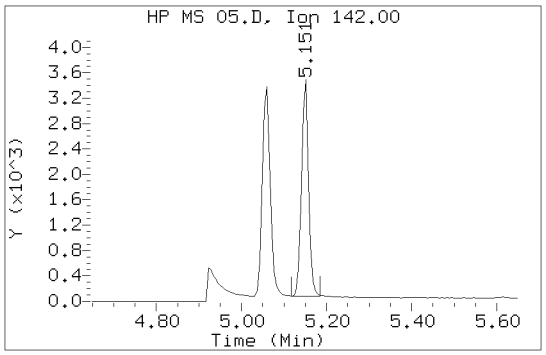
BEFORE

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



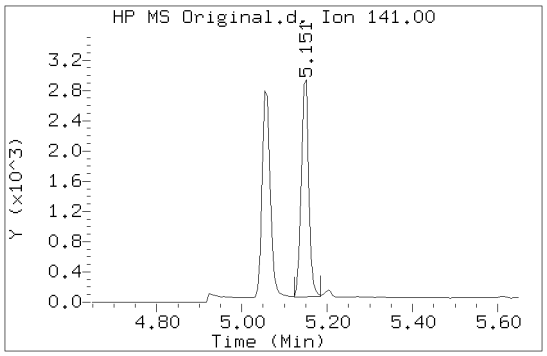
AFTER

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



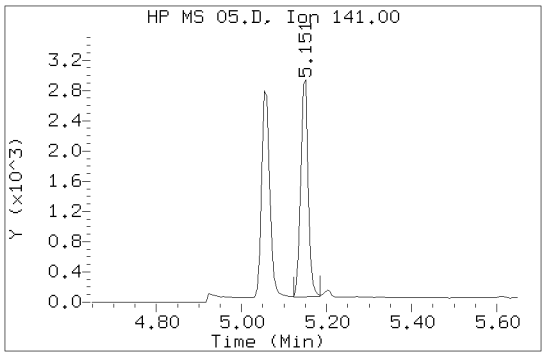
BEFORE

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

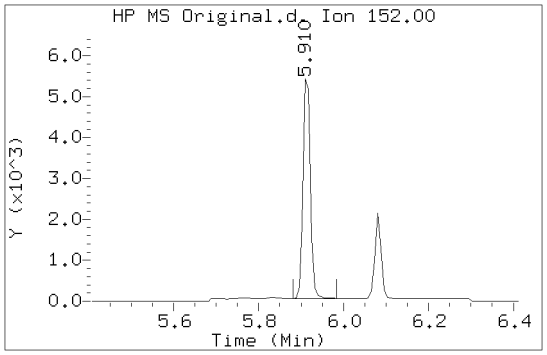


Acenaphthylene (208-96-8)

Reason Code:

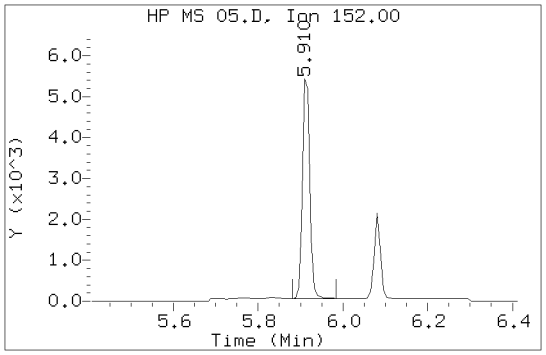
BEFORE

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



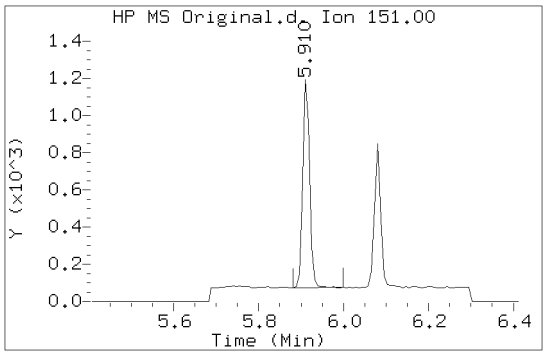
AFTER

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



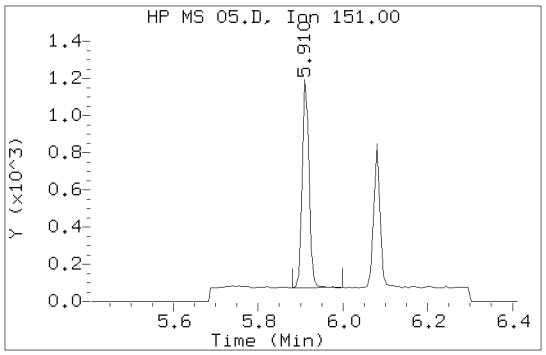
BEFORE

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



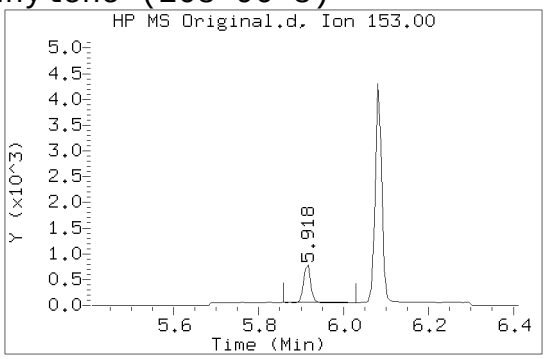
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Acenaphthylene (208-96-8)

Reason Code:

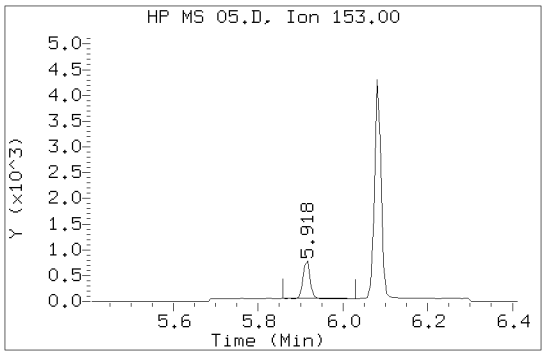
BEFORE

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

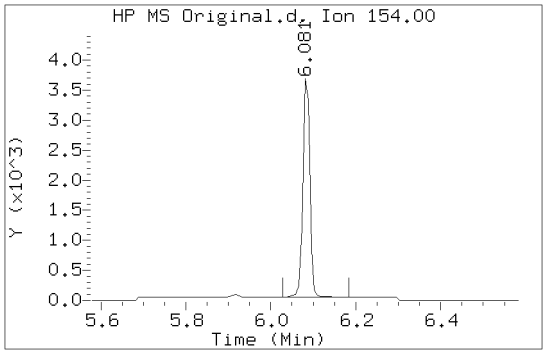


Acenaphthene (83-32-9)

Reason Code:

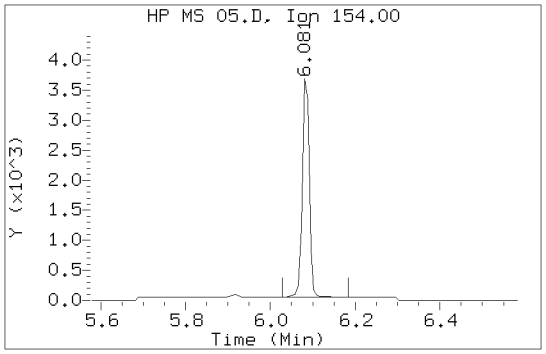
BEFORE

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



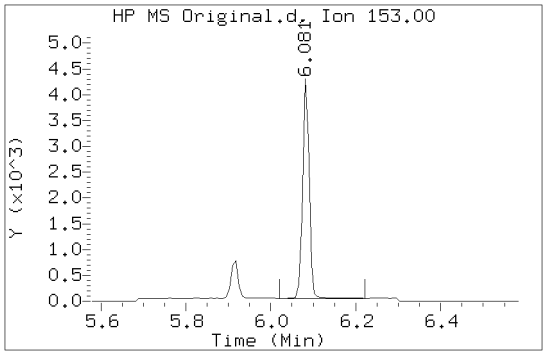
AFTER

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



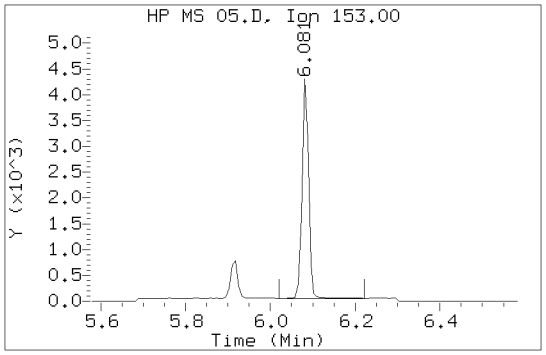
BEFORE

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



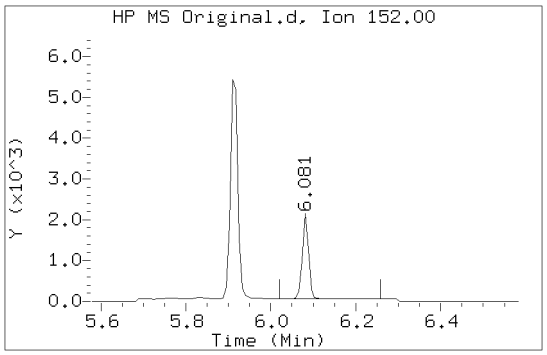
AFTER

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



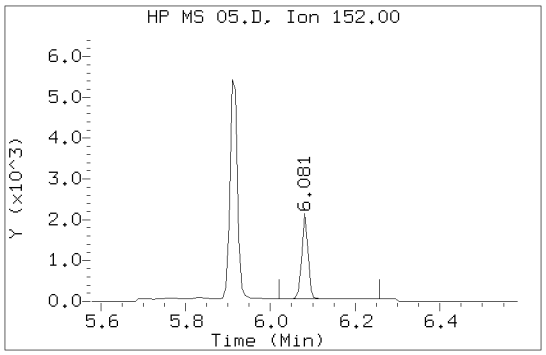
BEFORE

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



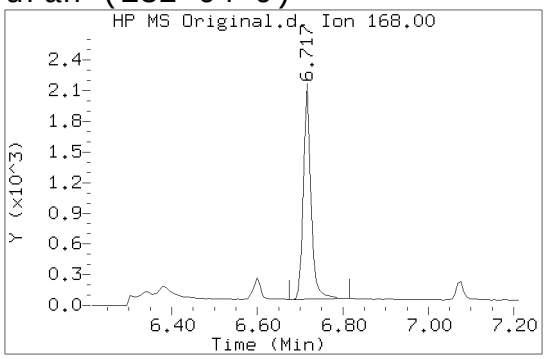
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzofuran (132-64-9)

Reason Code:

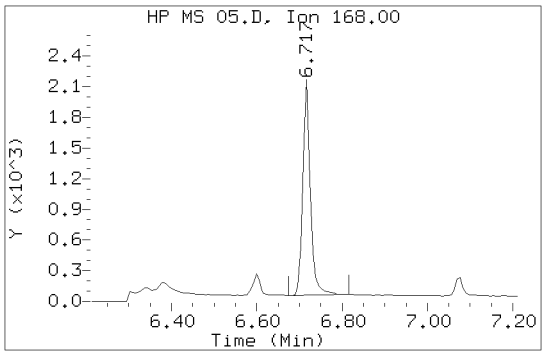
BEFORE

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



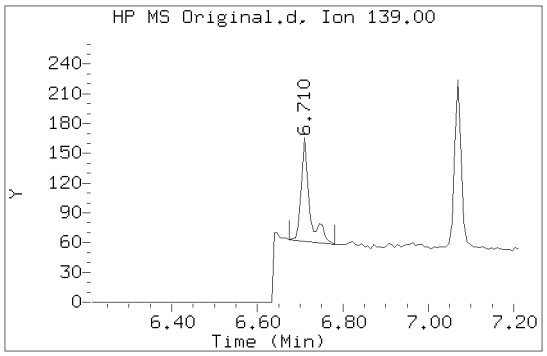
AFTER

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



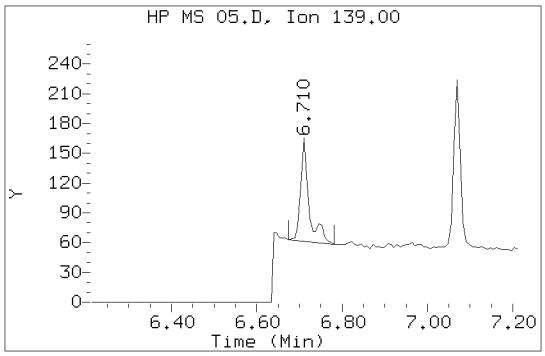
BEFORE

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

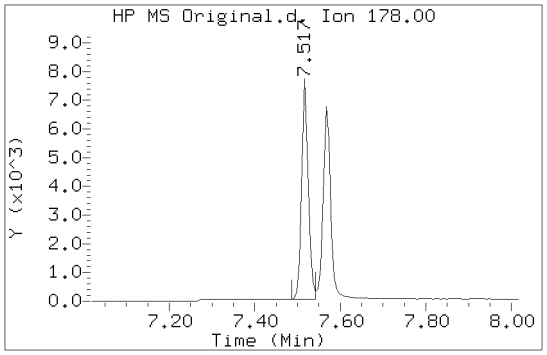


Phenanthrene (85-01-8)

Reason Code:

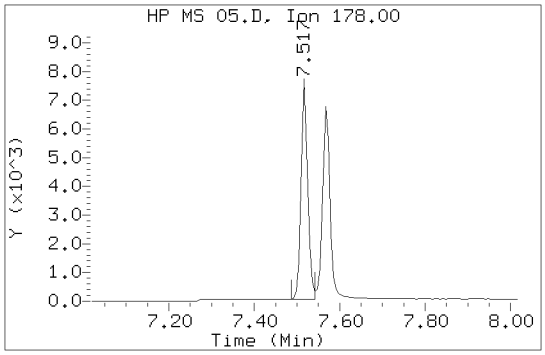
BEFORE

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



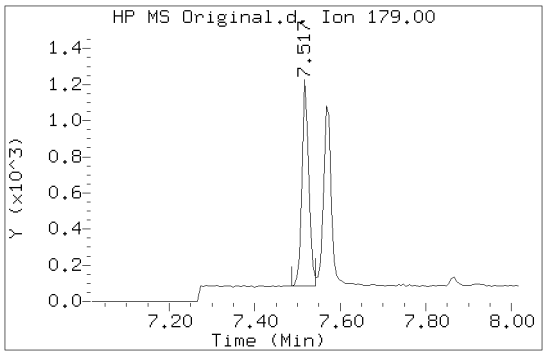
AFTER

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



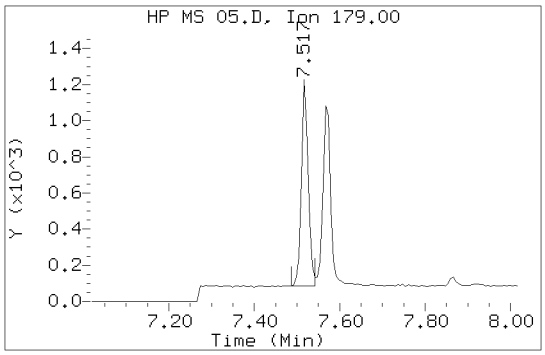
BEFORE

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



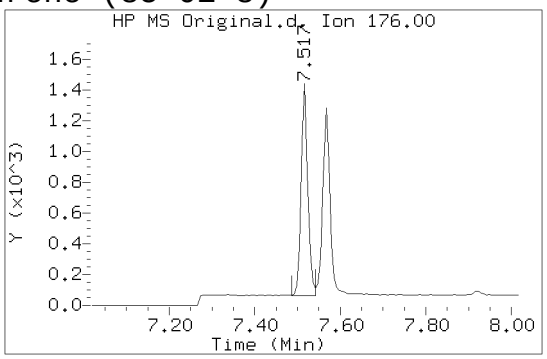
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene (85-01-8)

Reason Code:

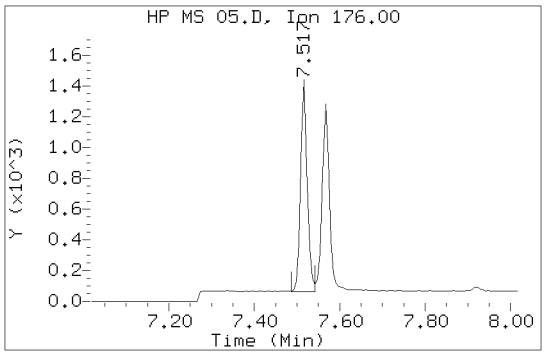
BEFORE

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

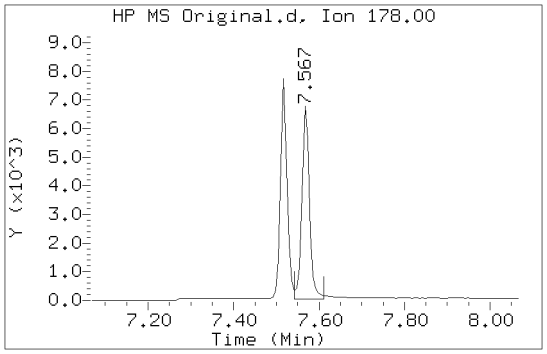


Anthracene (120-12-7)

Reason Code:

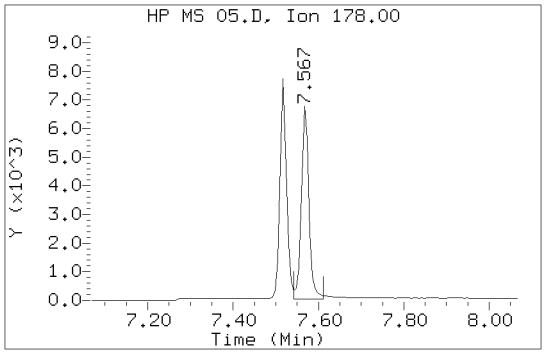
BEFORE

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



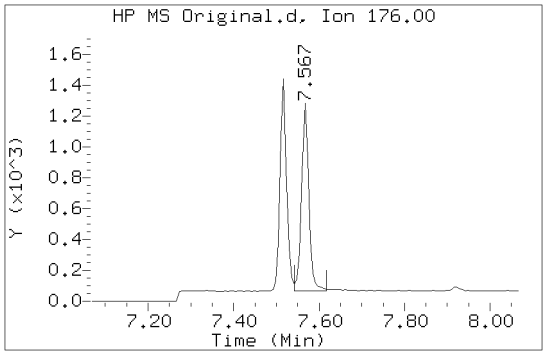
AFTER

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



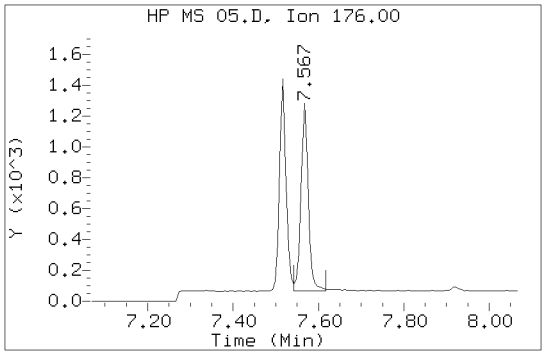
BEFORE

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



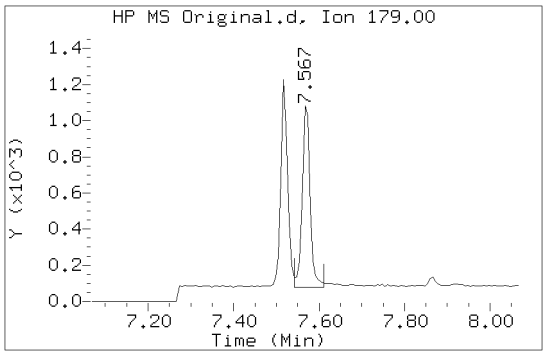
AFTER

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



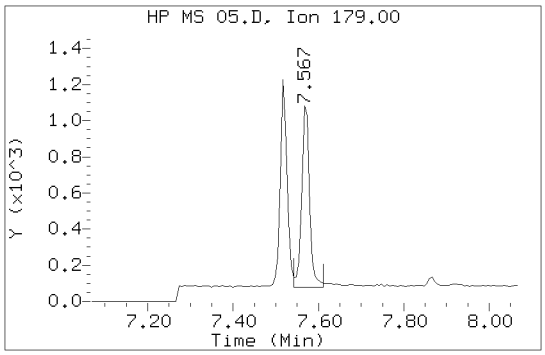
BEFORE

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



AFTER

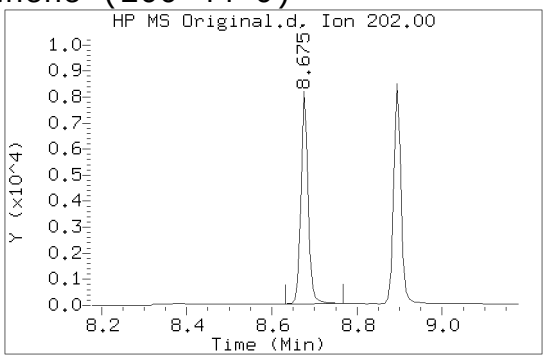
MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



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

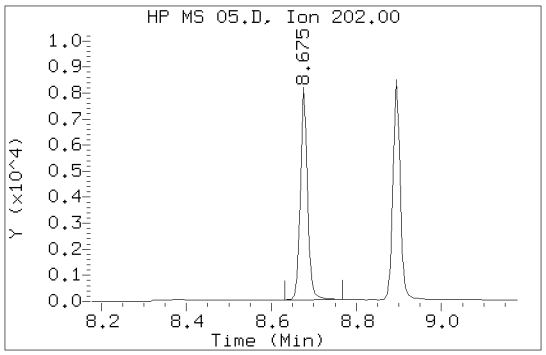
Fluoranthene (206-44-0)

BEFORE
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham

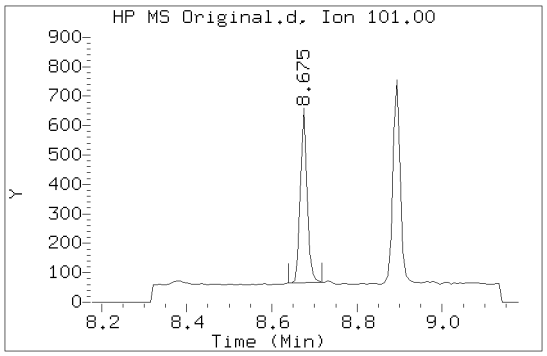


Reason Code:

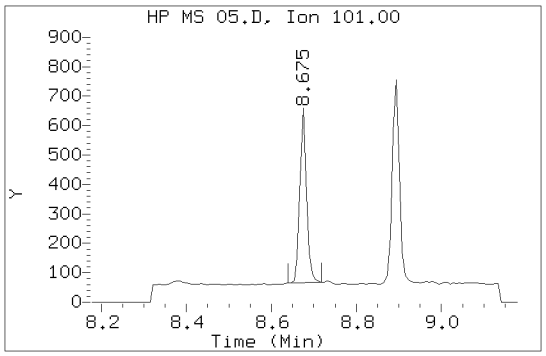
AFTER
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



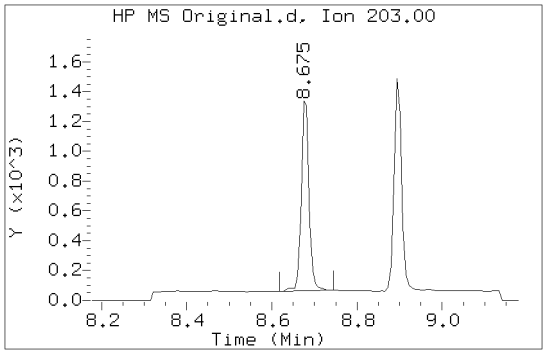
BEFORE
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



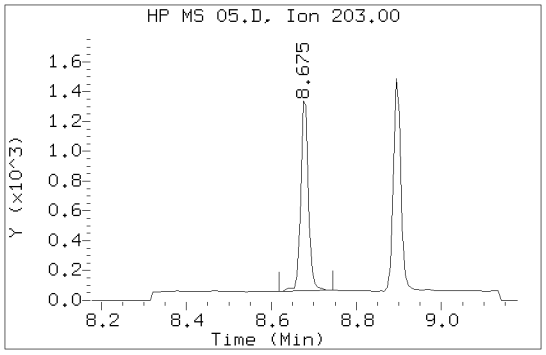
AFTER
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham

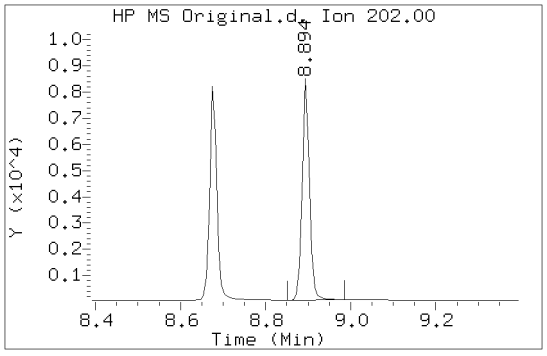


AFTER
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



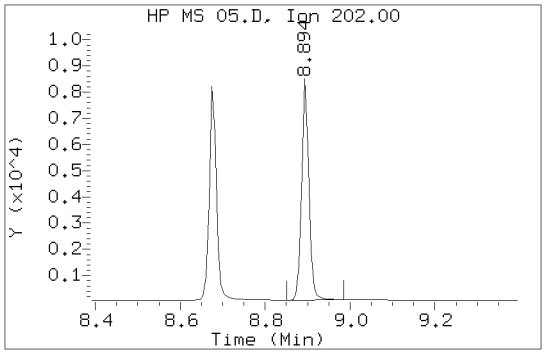
Pyrene (129-00-0)

BEFORE
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham

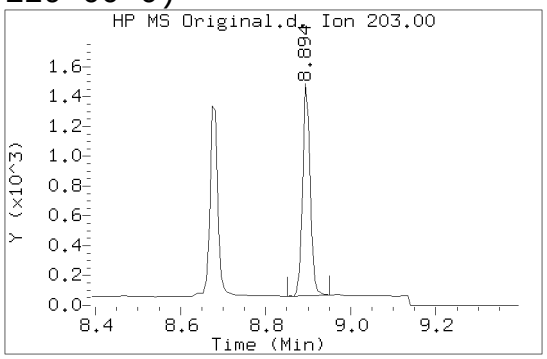


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

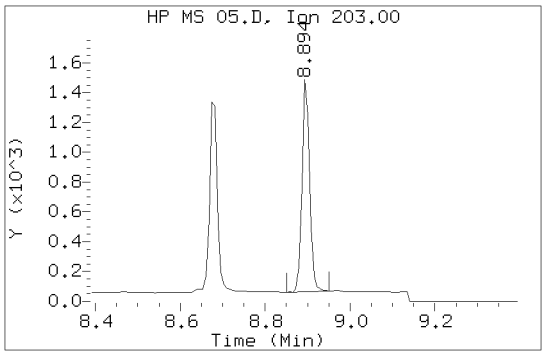
Pyrene (129-00-0)

Reason Code:

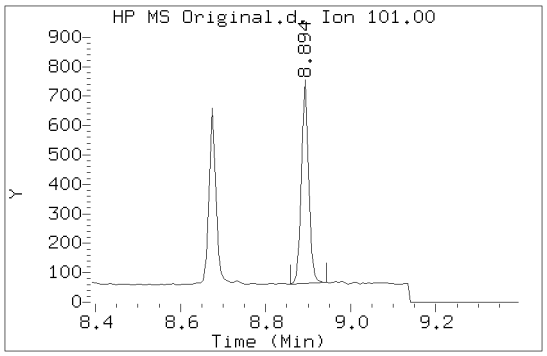
BEFORE
MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



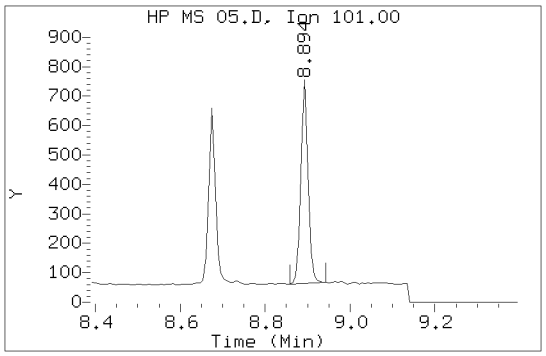
AFTER
MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham



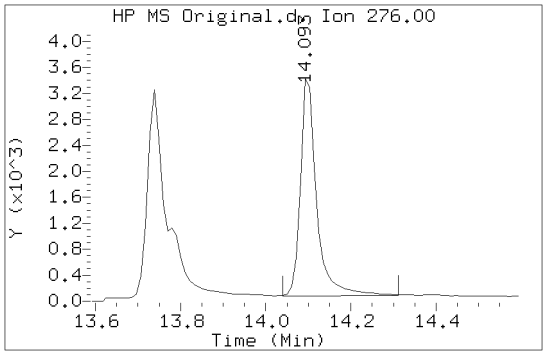
AFTER
MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham



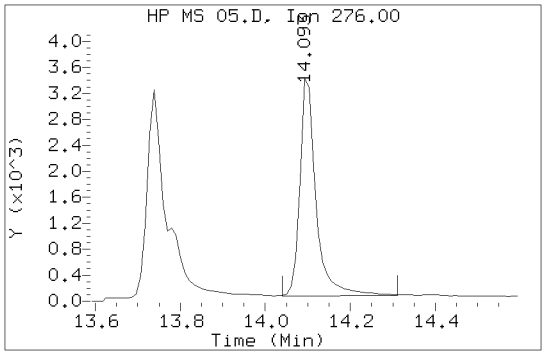
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

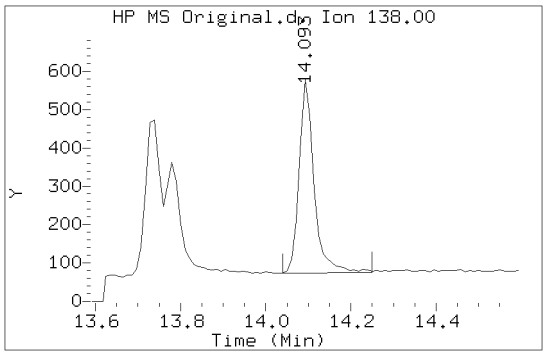
BEFORE
MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



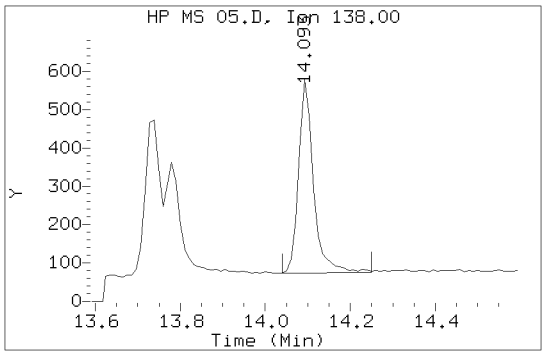
AFTER
MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



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



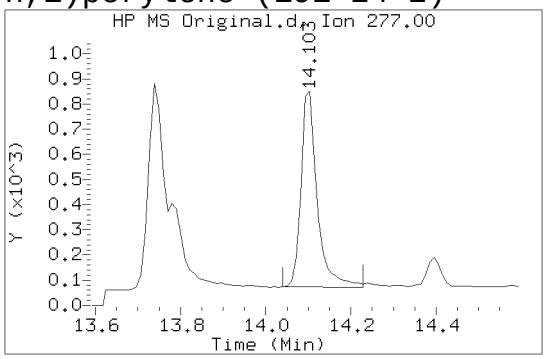
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

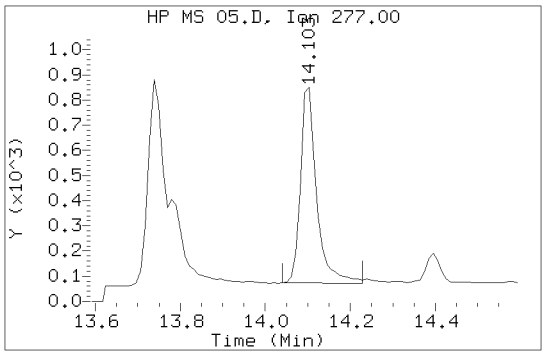
BEFORE

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

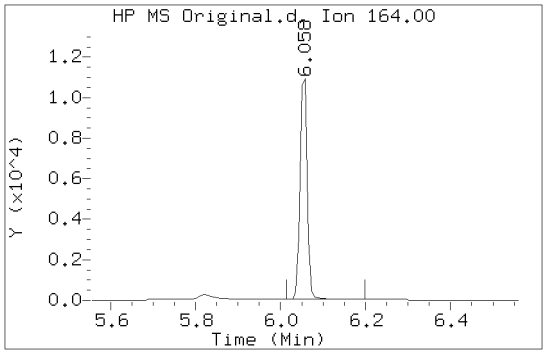


Acenaphthene-d10 (15067-26-2)

Reason Code:

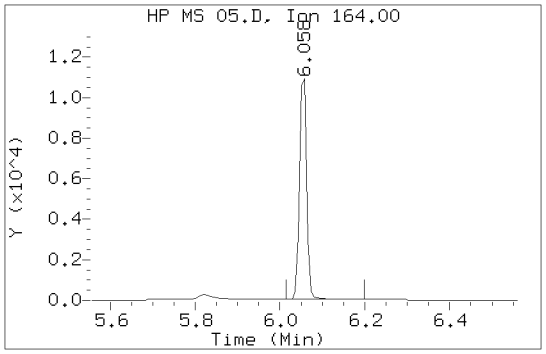
BEFORE

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



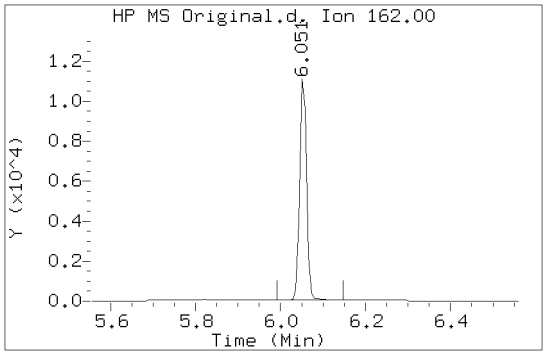
AFTER

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



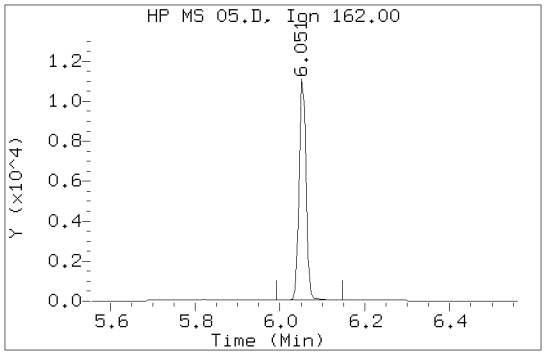
BEFORE

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



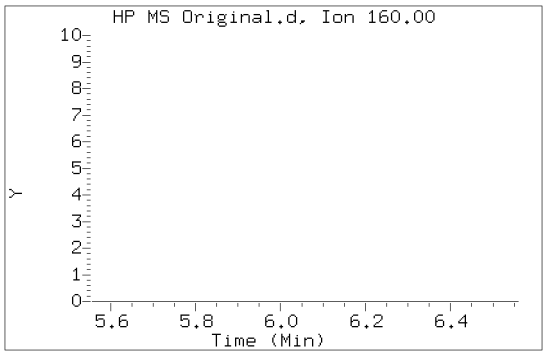
AFTER

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



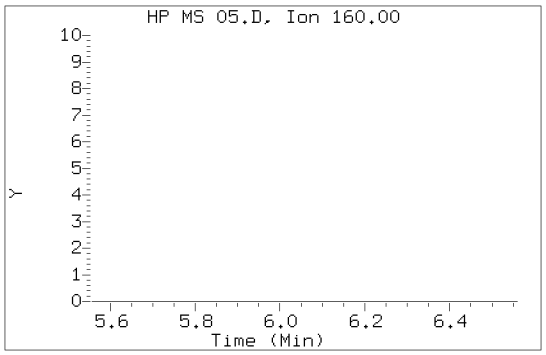
BEFORE

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



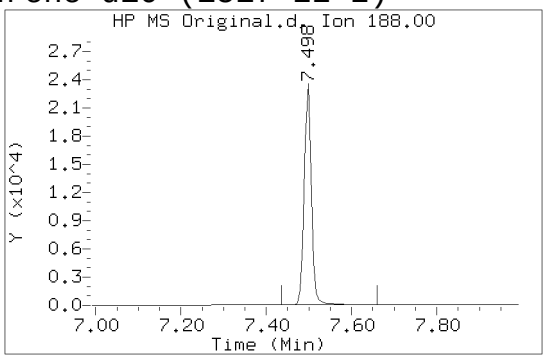
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene-d10 (1517-22-2)

Reason Code:

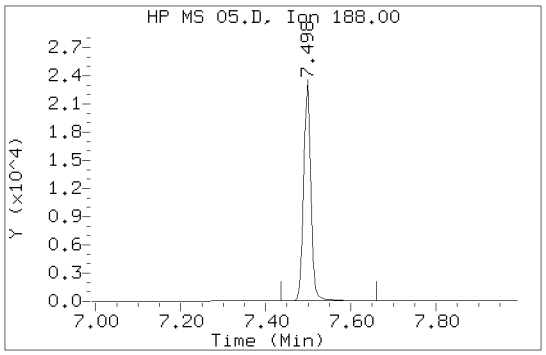
BEFORE

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



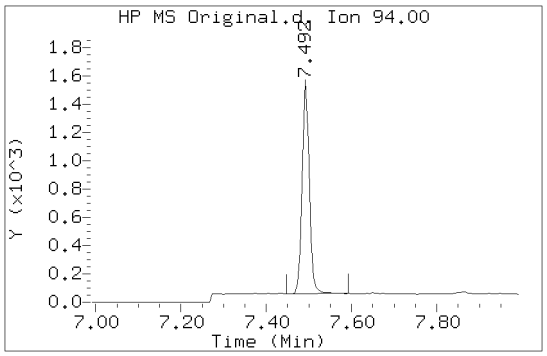
AFTER

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



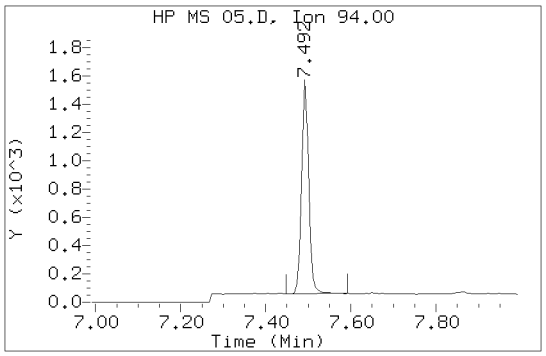
BEFORE

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



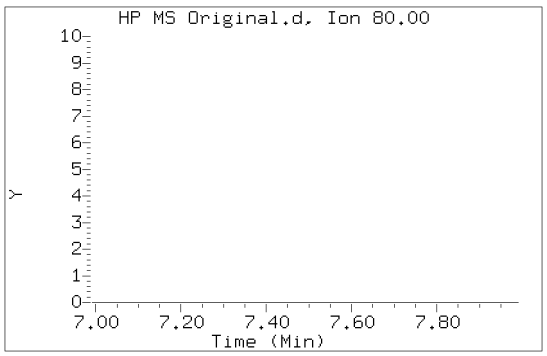
AFTER

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



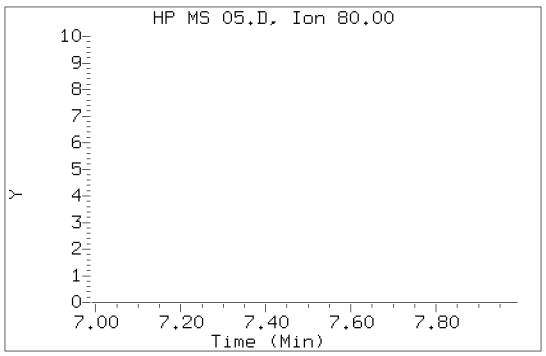
BEFORE

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

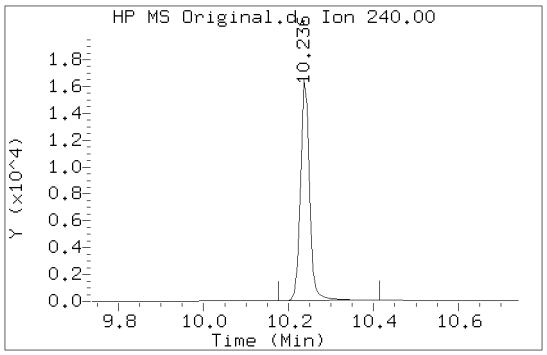


Chrysene-d12 (1719-03-5)

Reason Code:

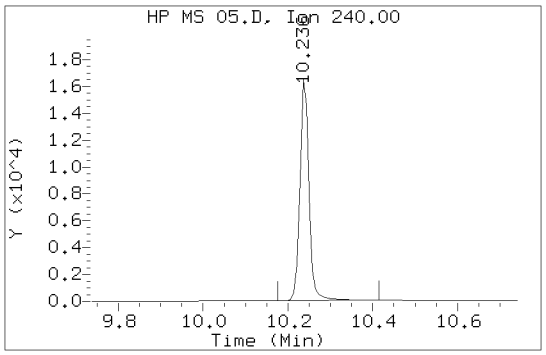
BEFORE

MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



AFTER

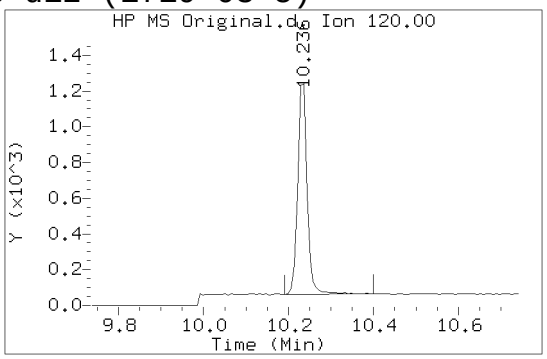
MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



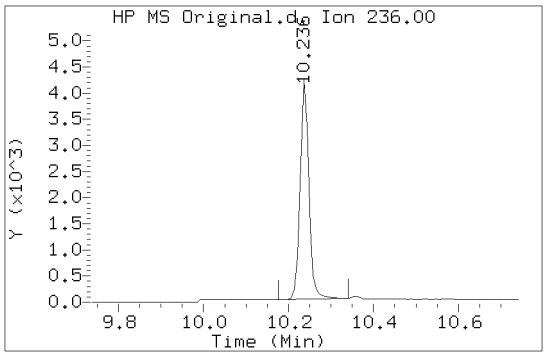
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene-d12 (1719-03-5)

BEFORE
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

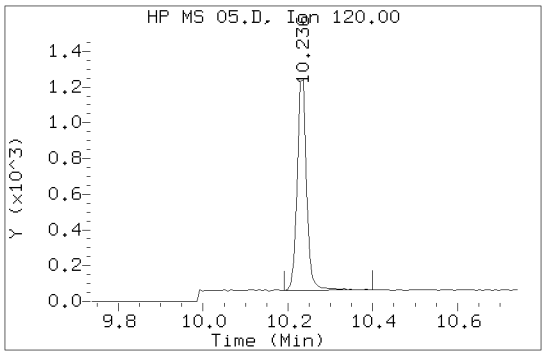


BEFORE
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

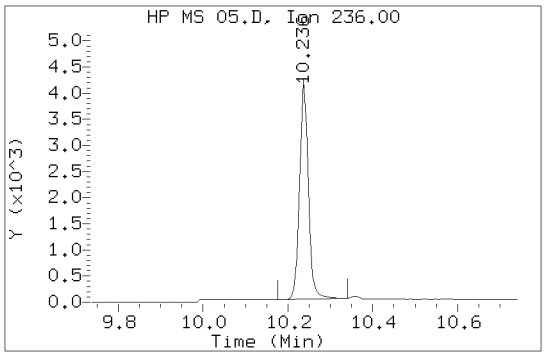


Reason Code:

AFTER
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

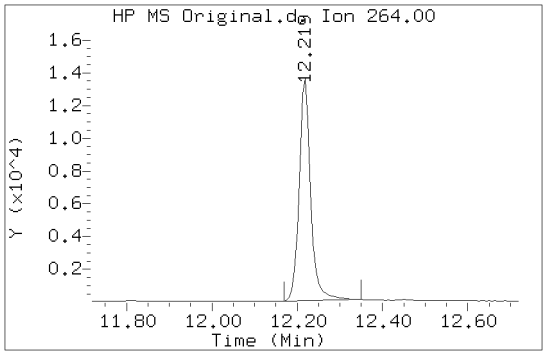


AFTER
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

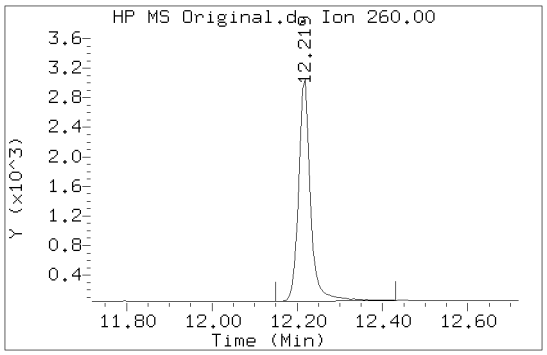


Perylene-d12 (1520-96-3)

BEFORE
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham

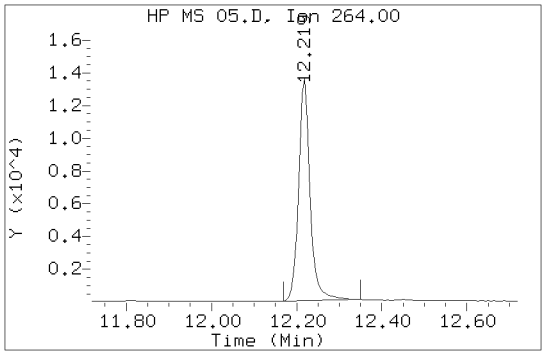


BEFORE
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham

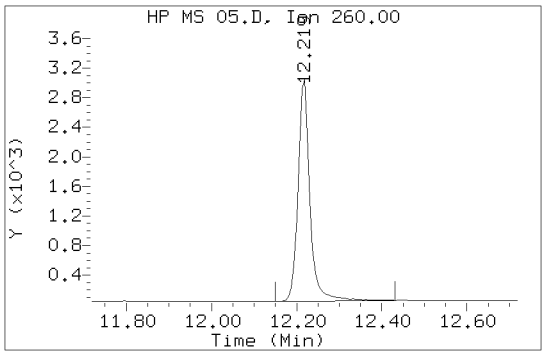


Reason Code:

AFTER
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



AFTER
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



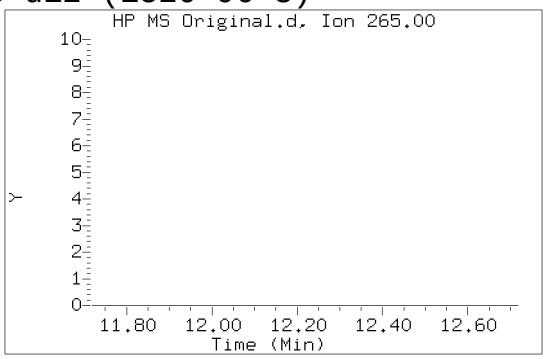
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Perylene-d12 (1520-96-3)

Reason Code:

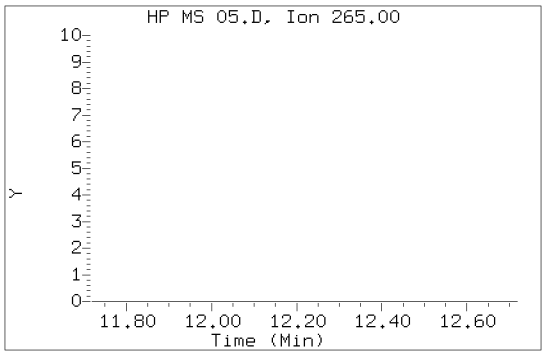
BEFORE

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

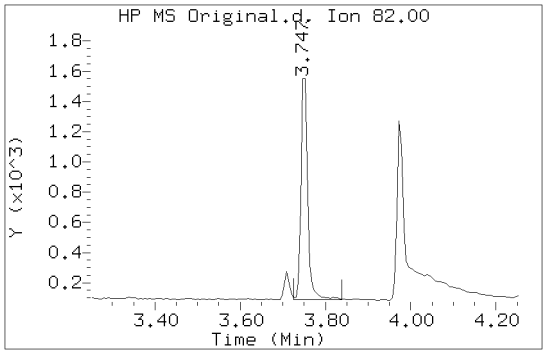


Nitrobenzene-d5 (4165-60-0)

Reason Code:

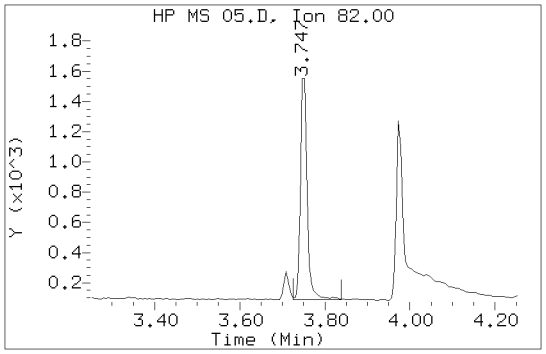
BEFORE

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



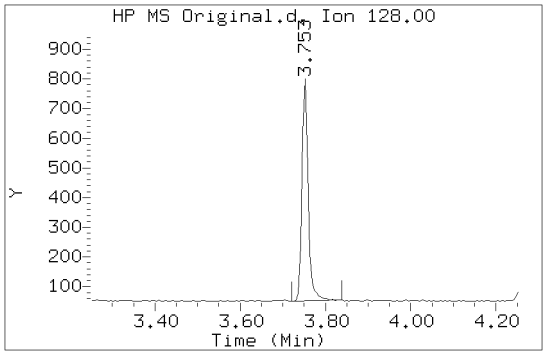
AFTER

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



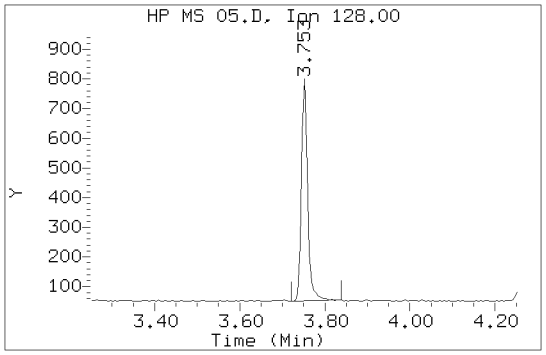
BEFORE

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



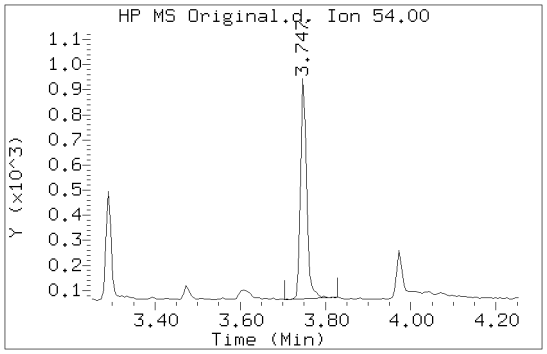
AFTER

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



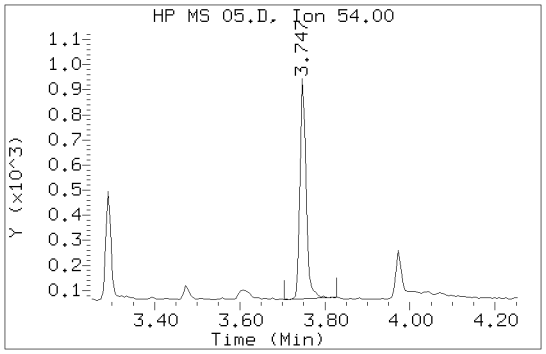
BEFORE

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



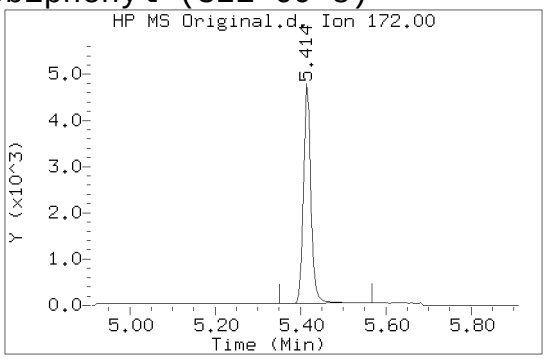
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

2-Fluorobiphenyl (321-60-8)

Reason Code:

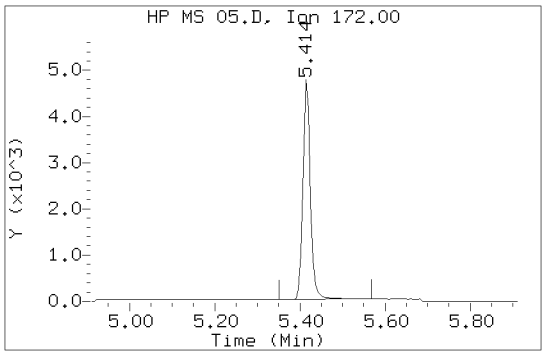
BEFORE

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



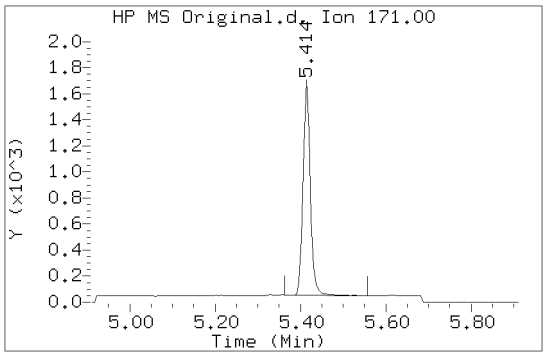
AFTER

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



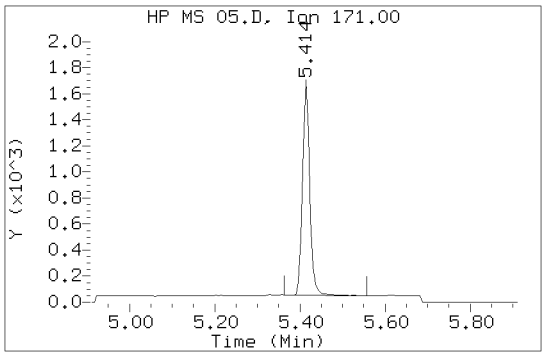
BEFORE

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

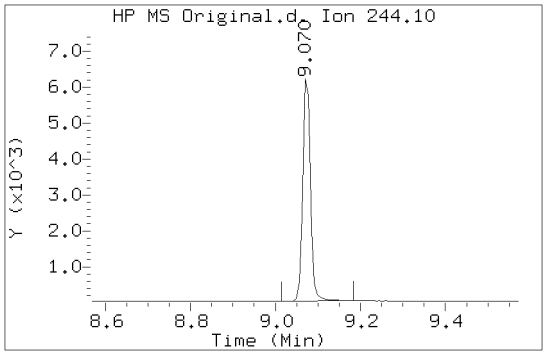


4-Terphenyl-d14 (1718-51-0)

Reason Code:

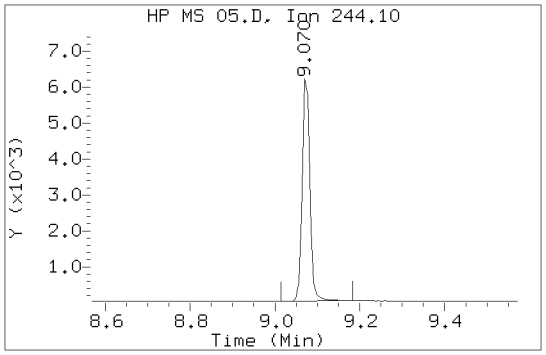
BEFORE

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



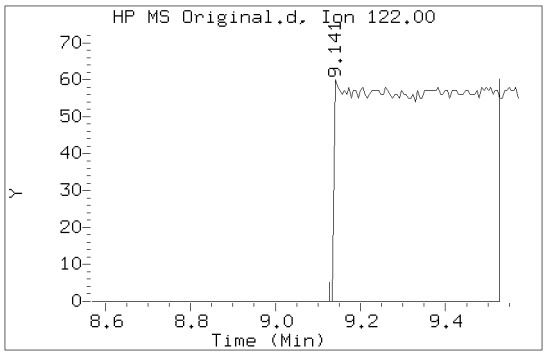
AFTER

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



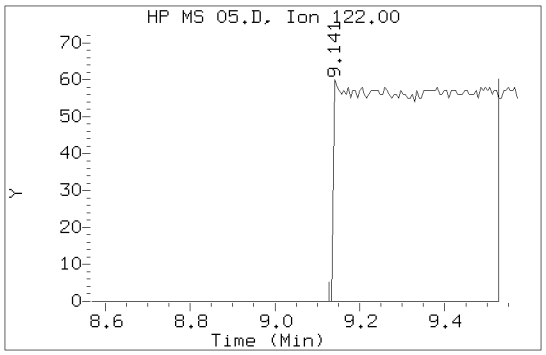
BEFORE

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



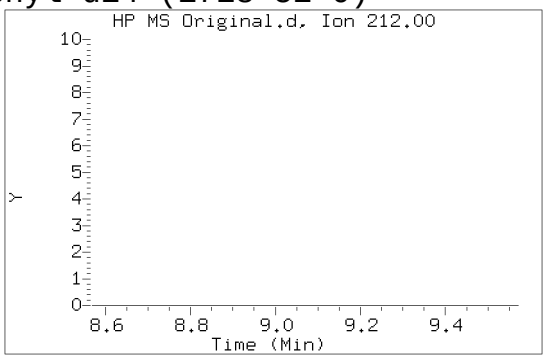
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

4-Terphenyl-d14 (1718-51-0)

Reason Code:

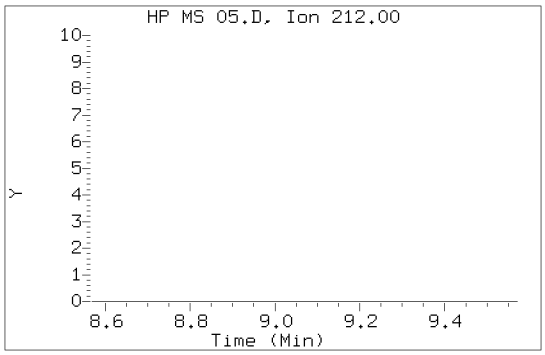
BEFORE

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

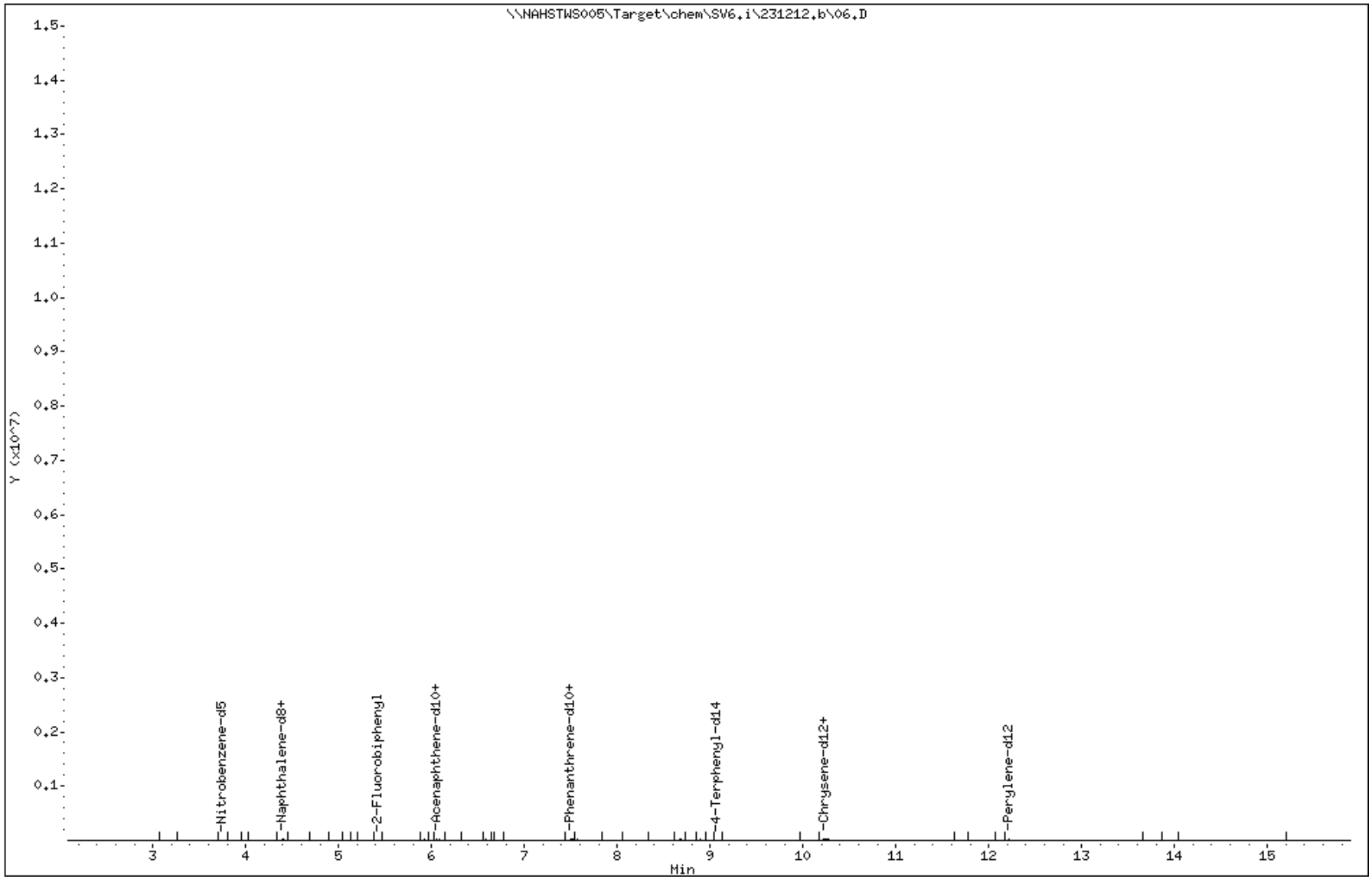
Sample Info: PAHSIM-0.050

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



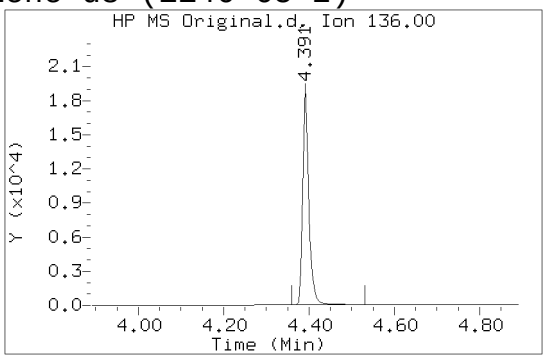
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene-d8 (1146-65-2)

Reason Code:

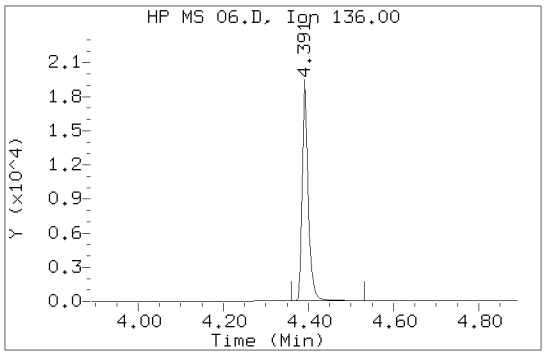
BEFORE

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



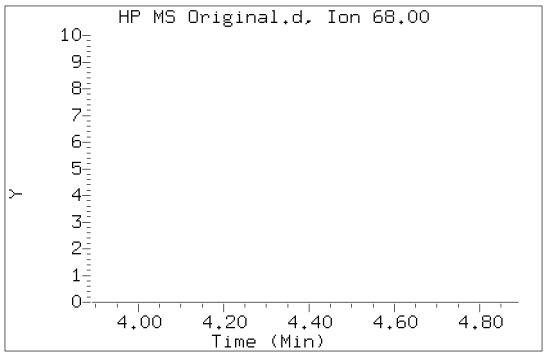
AFTER

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



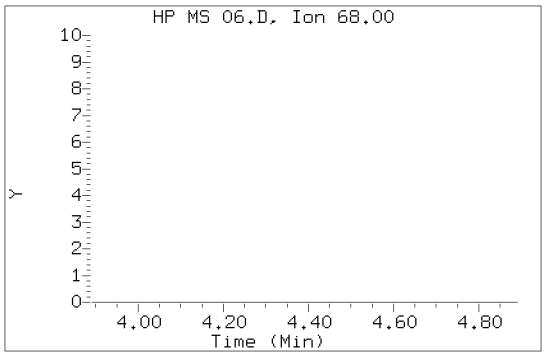
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

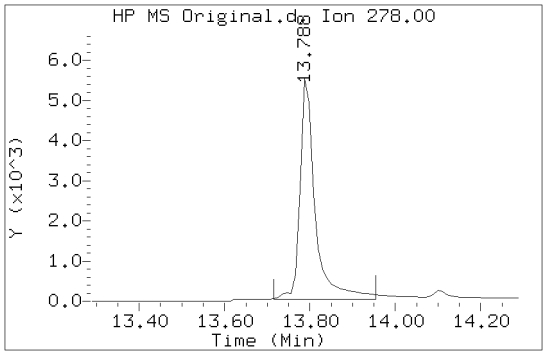


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

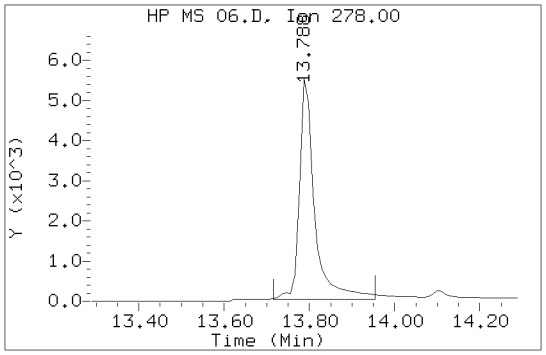
BEFORE

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



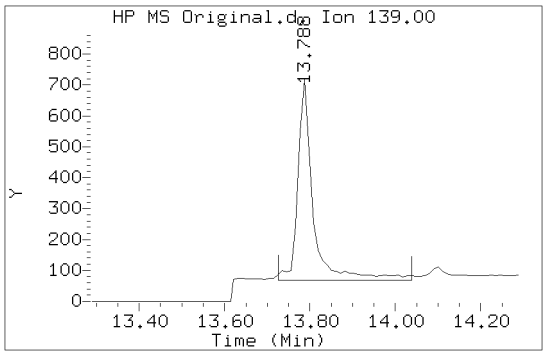
AFTER

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



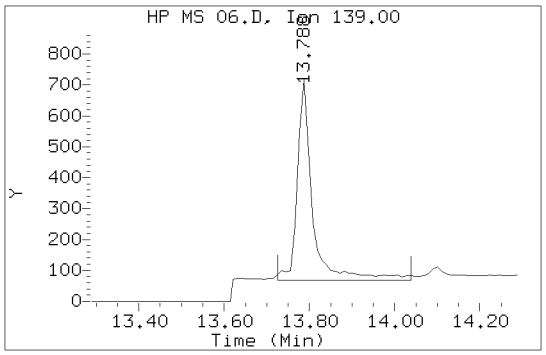
BEFORE

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



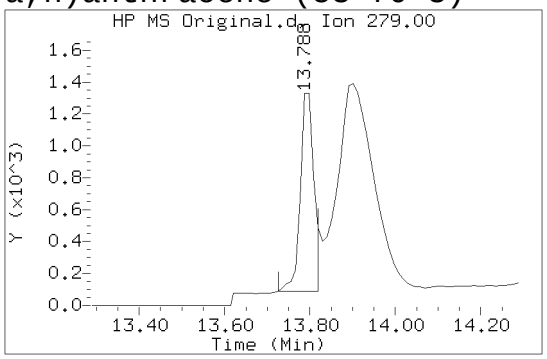
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

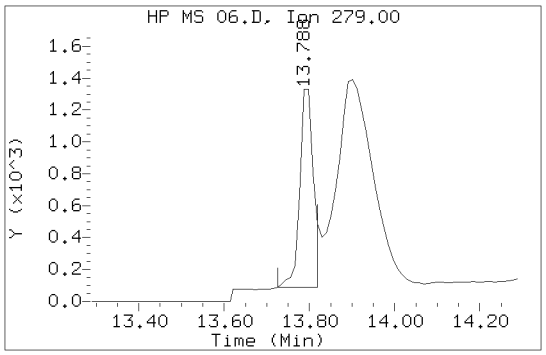
BEFORE

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

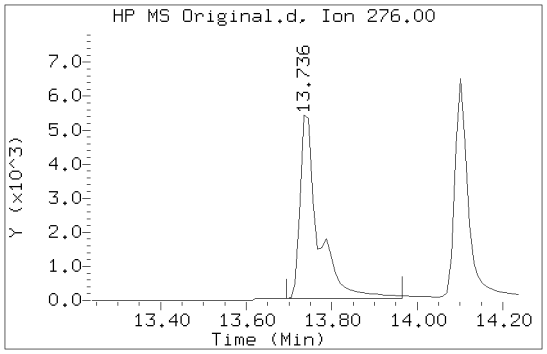


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

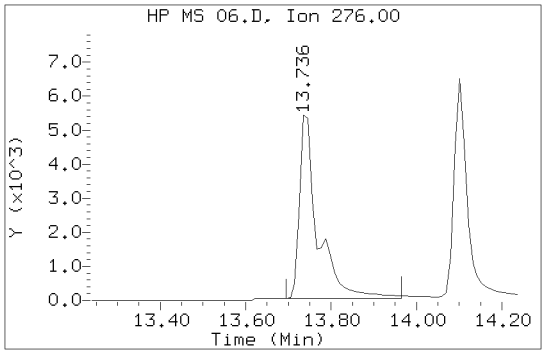
BEFORE

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



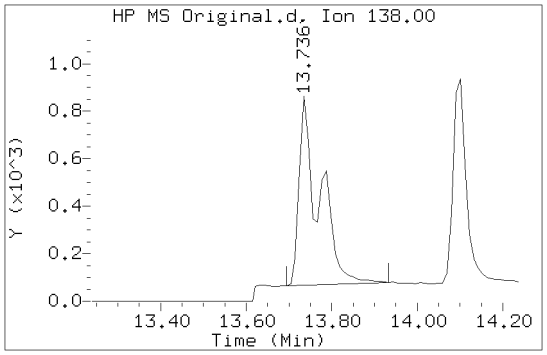
AFTER

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



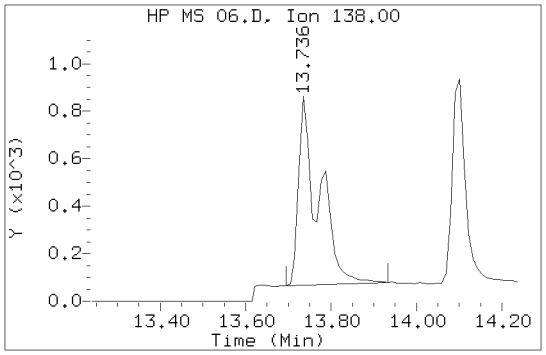
BEFORE

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



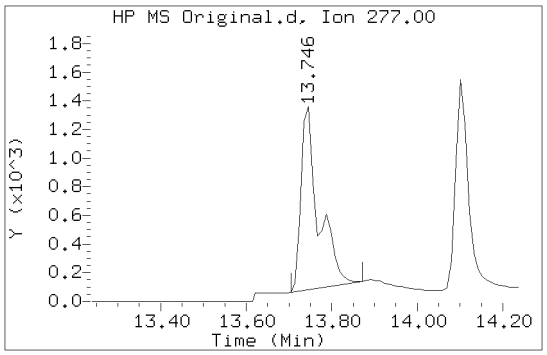
AFTER

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



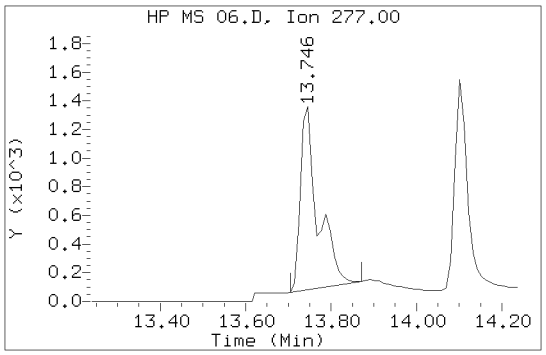
BEFORE

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



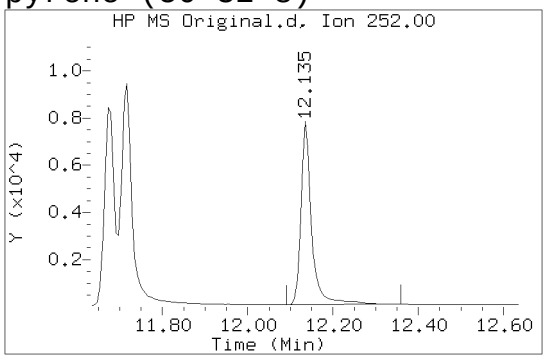
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(a)pyrene (50-32-8)

Reason Code:

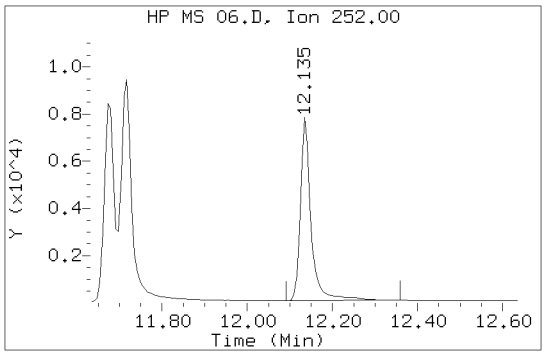
BEFORE

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



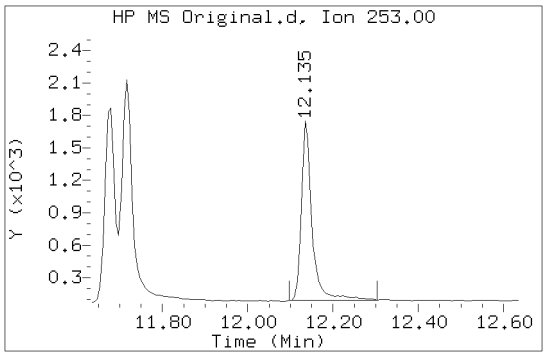
AFTER

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



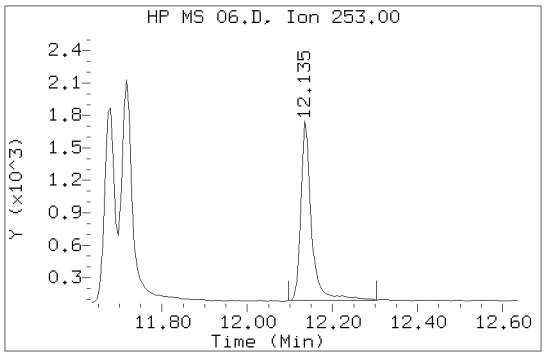
BEFORE

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



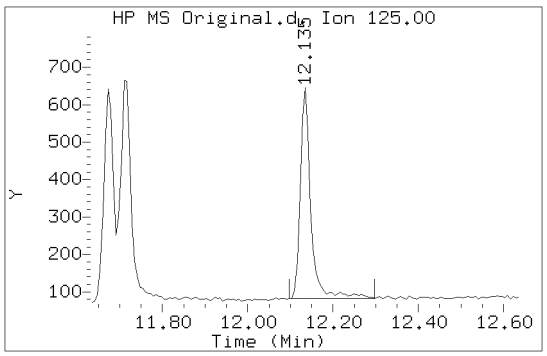
AFTER

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



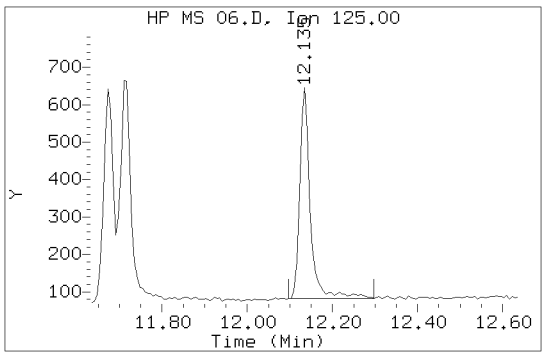
BEFORE

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

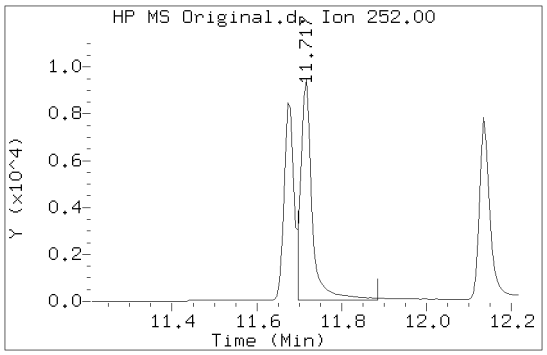


Benzo(k)fluoranthene (207-08-9)

Reason Code:

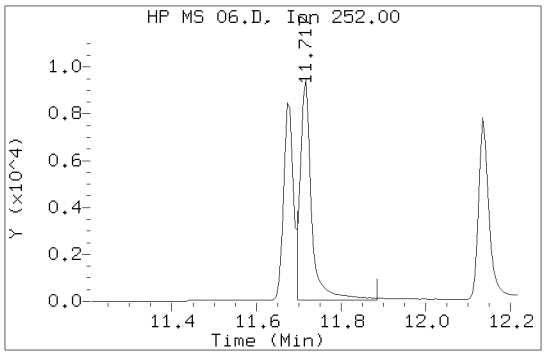
BEFORE

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



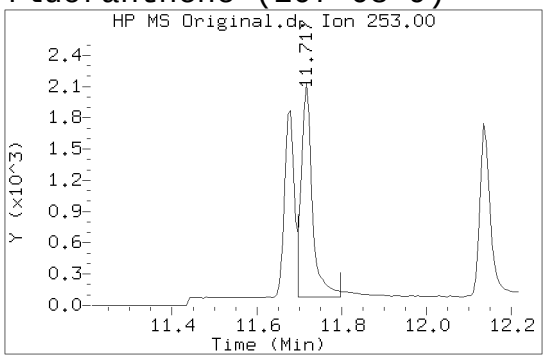
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(k)fluoranthene (207-08-9)

Reason Code:

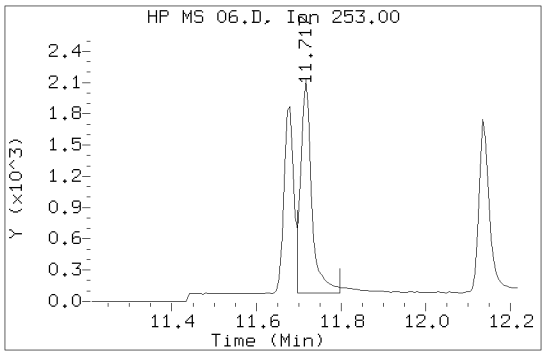
BEFORE

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



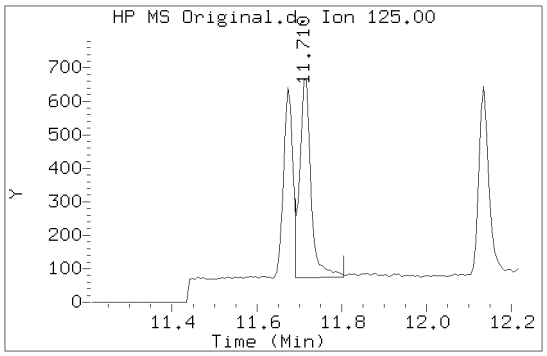
AFTER

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



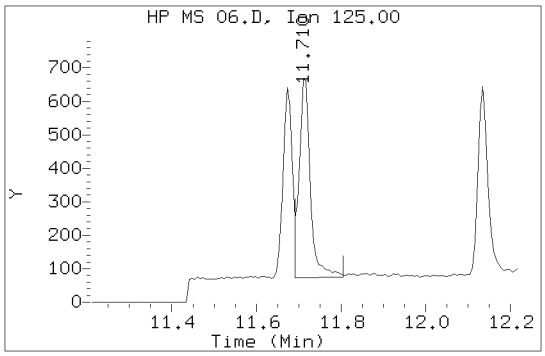
BEFORE

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

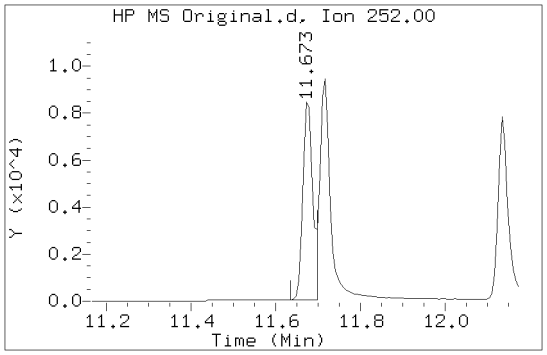


Benzo(b)fluoranthene (205-99-2)

Reason Code:

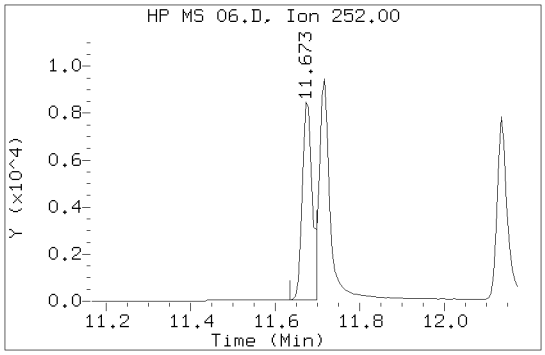
BEFORE

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



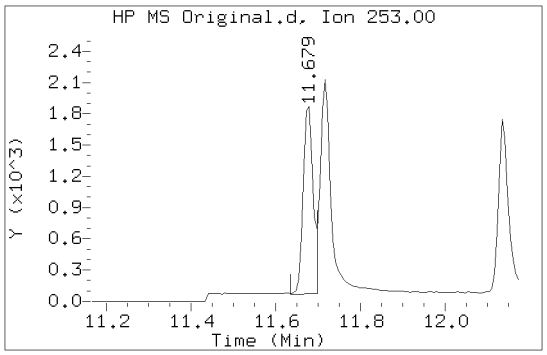
AFTER

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



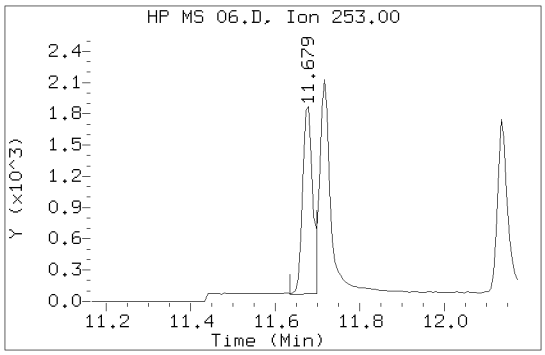
BEFORE

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



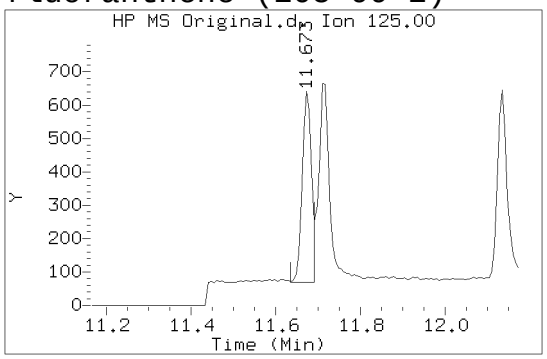
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(b)fluoranthene (205-99-2)

Reason Code:

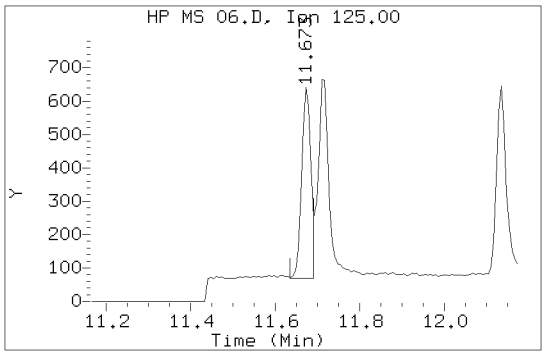
BEFORE

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

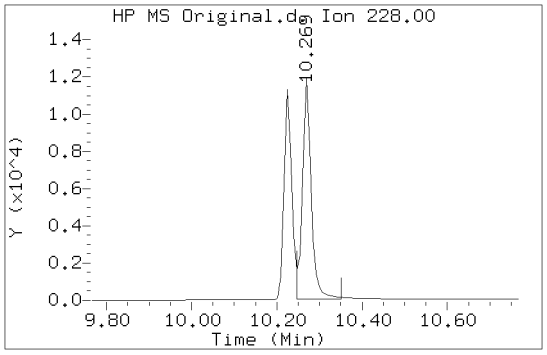


Chrysene (218-01-9)

Reason Code:

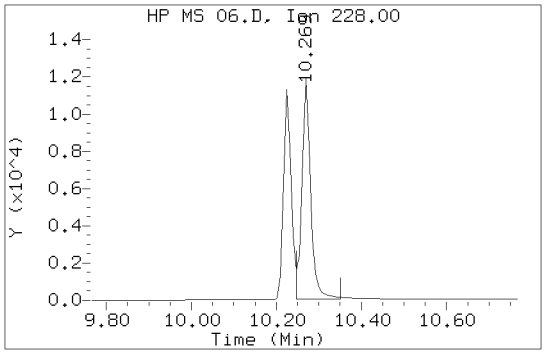
BEFORE

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



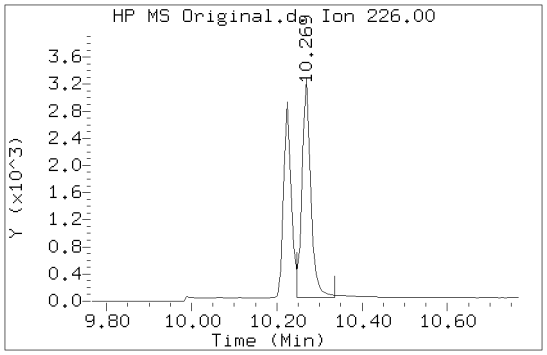
AFTER

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



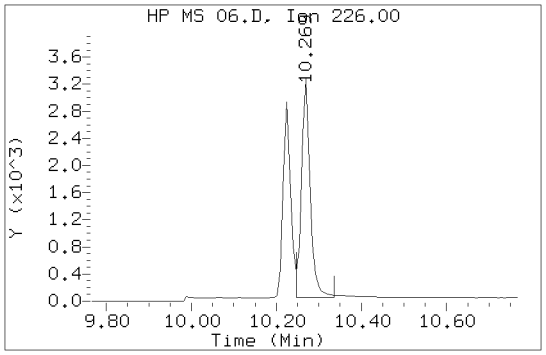
BEFORE

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



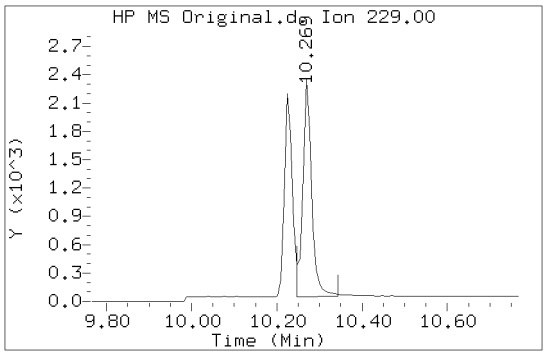
AFTER

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



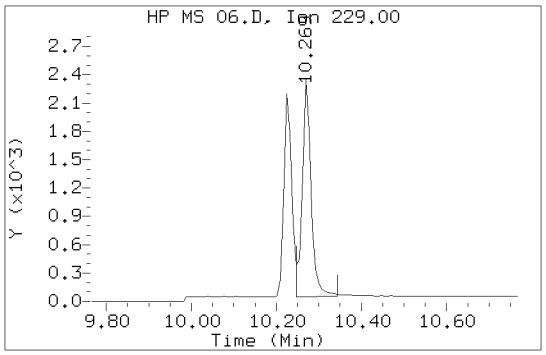
BEFORE

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



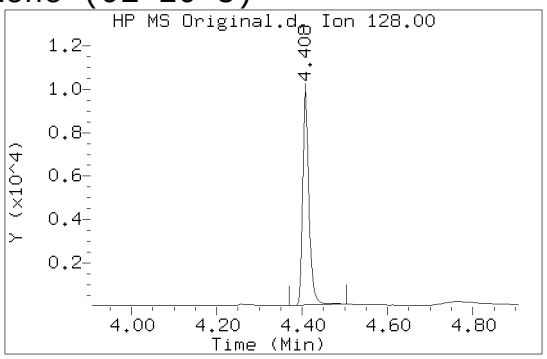
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene (91-20-3)

Reason Code:

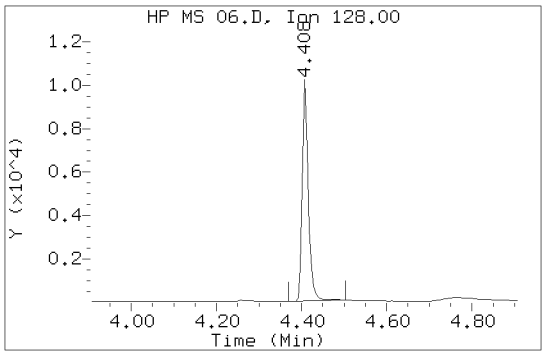
BEFORE

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



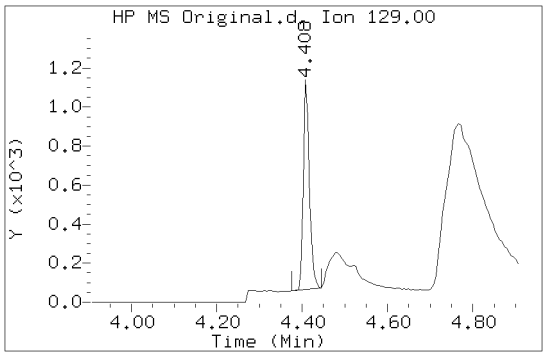
AFTER

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



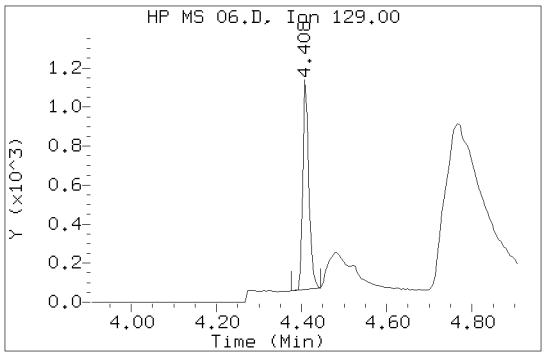
BEFORE

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

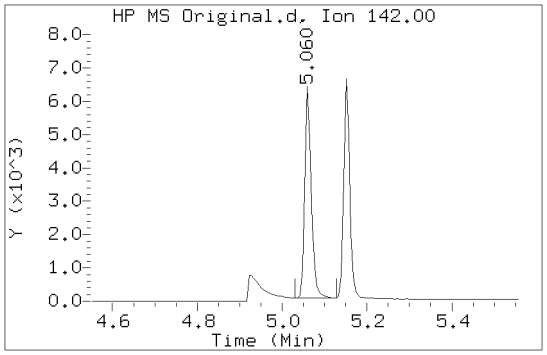


2-Methylnaphthalene (91-57-6)

Reason Code:

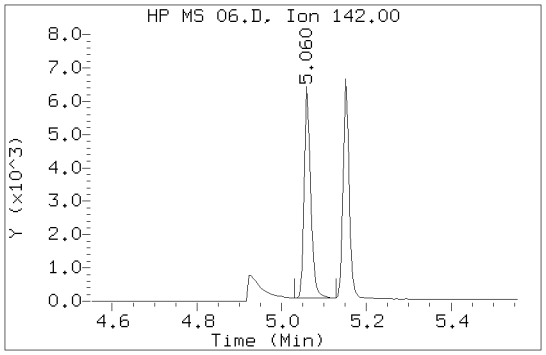
BEFORE

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



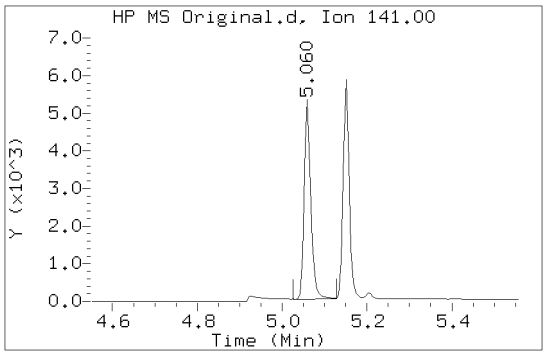
AFTER

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



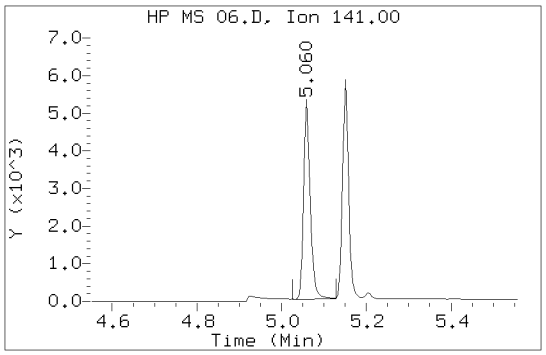
BEFORE

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



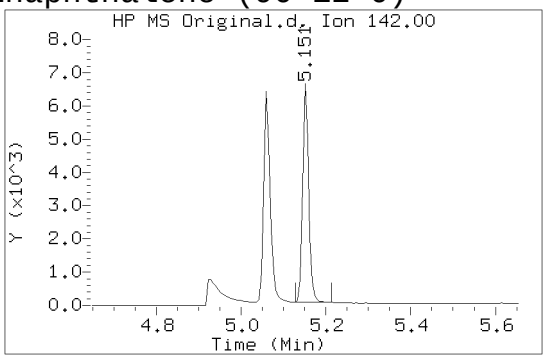
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

1-Methylnaphthalene (90-12-0)

Reason Code:

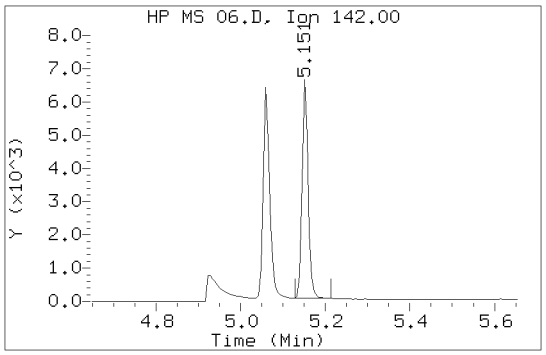
BEFORE

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



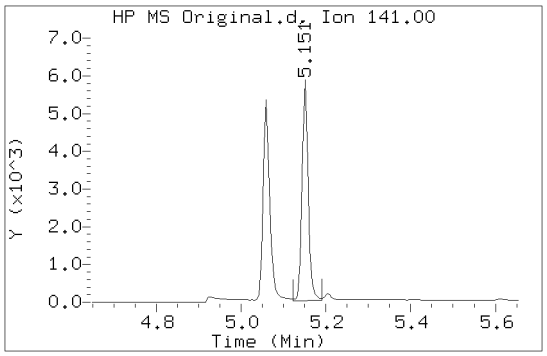
AFTER

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



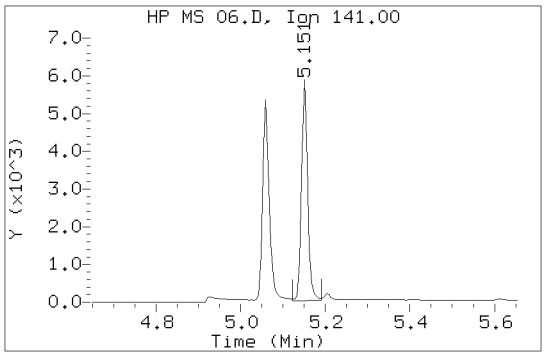
BEFORE

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

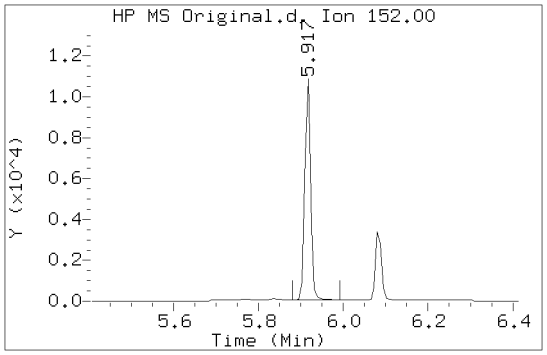


Acenaphthylene (208-96-8)

Reason Code:

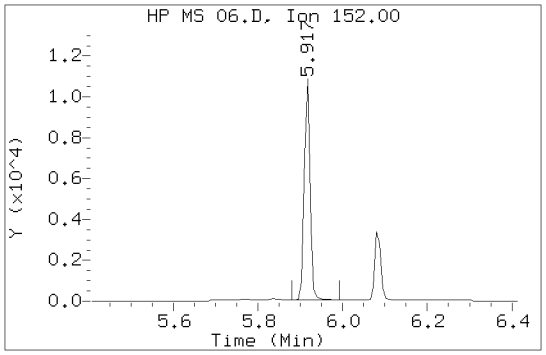
BEFORE

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



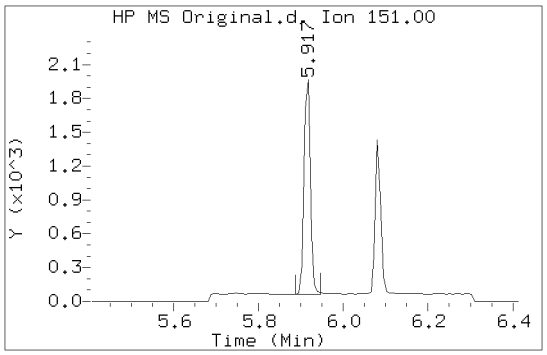
AFTER

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



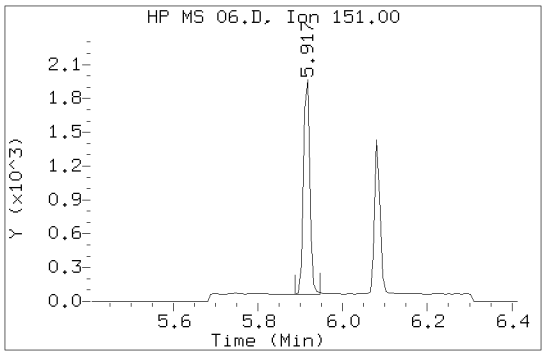
BEFORE

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



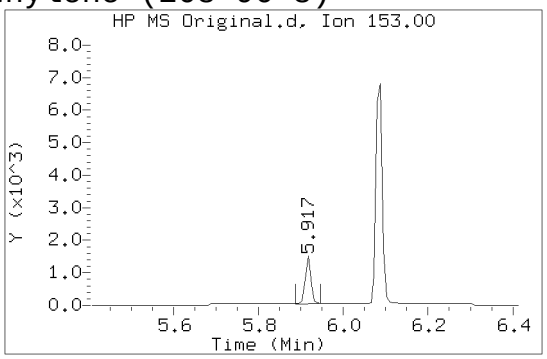
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthylene (208-96-8)

Reason Code:

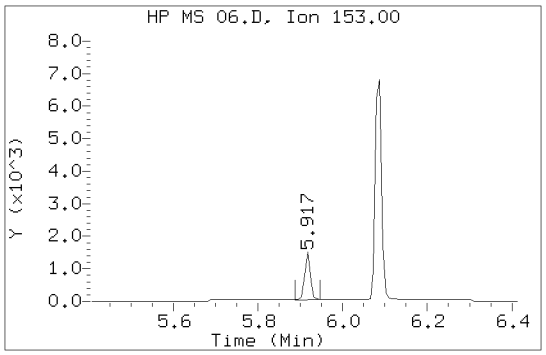
BEFORE

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

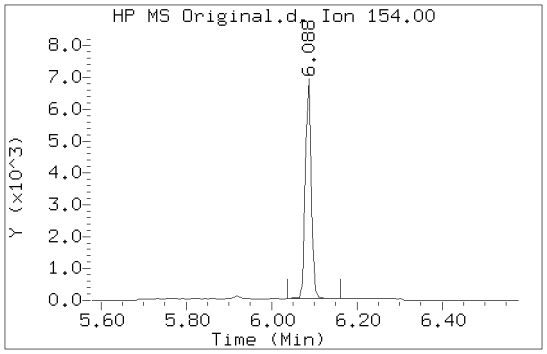


Acenaphthene (83-32-9)

Reason Code:

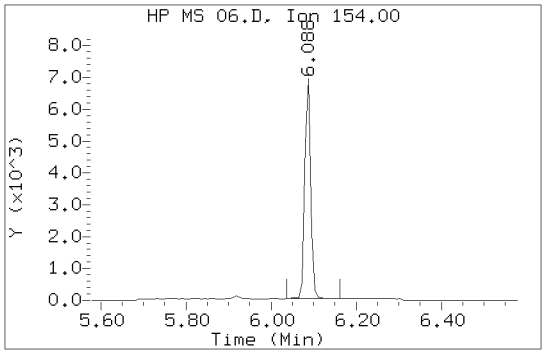
BEFORE

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



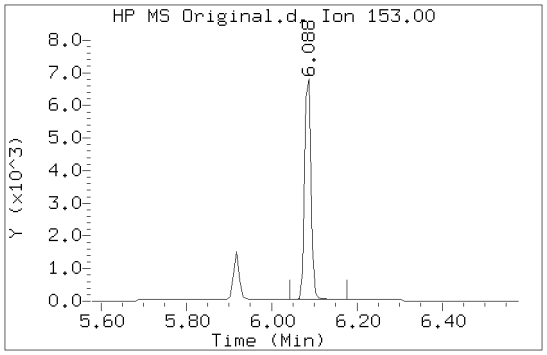
AFTER

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



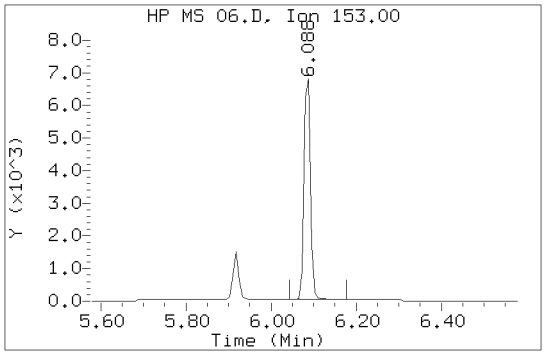
BEFORE

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



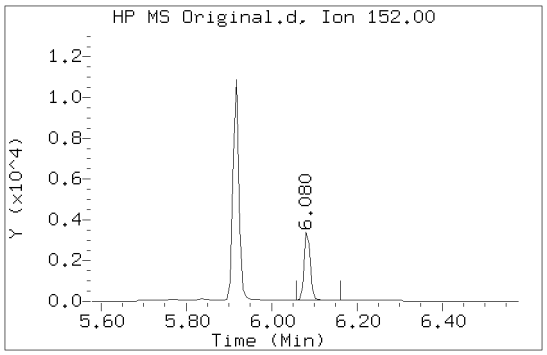
AFTER

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



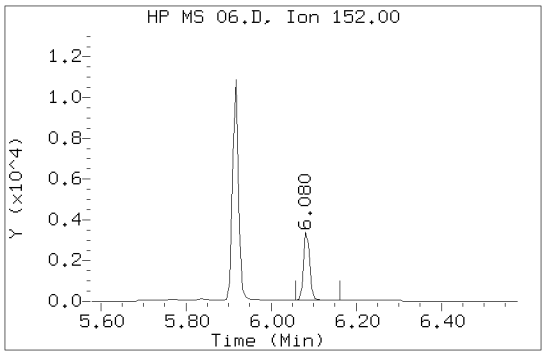
BEFORE

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



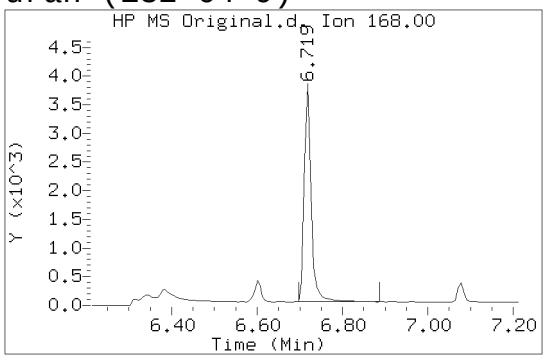
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzofuran (132-64-9)

Reason Code:

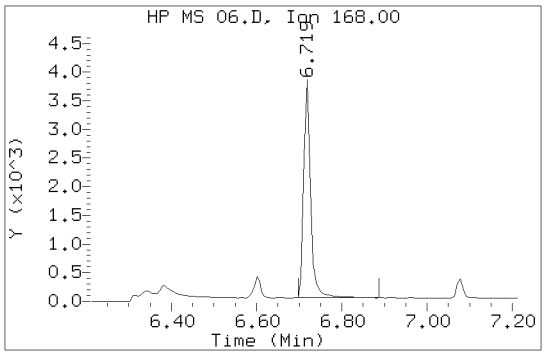
BEFORE

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



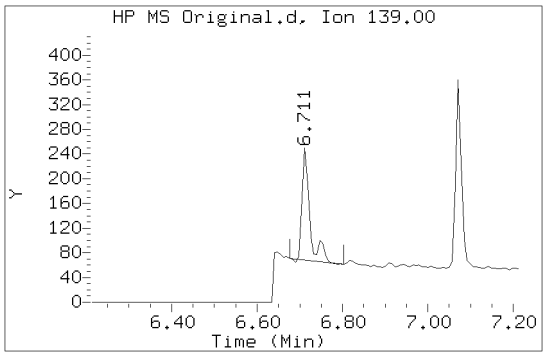
AFTER

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



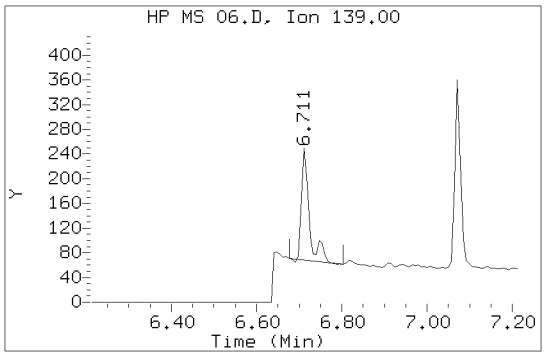
BEFORE

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

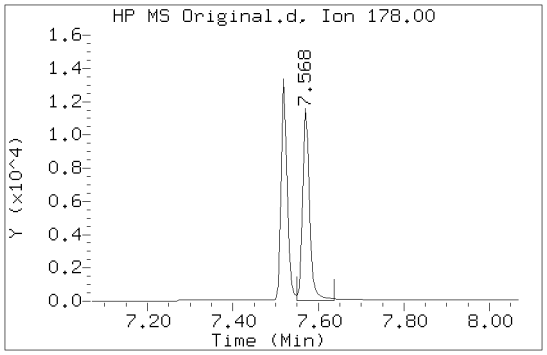


Anthracene (120-12-7)

Reason Code:

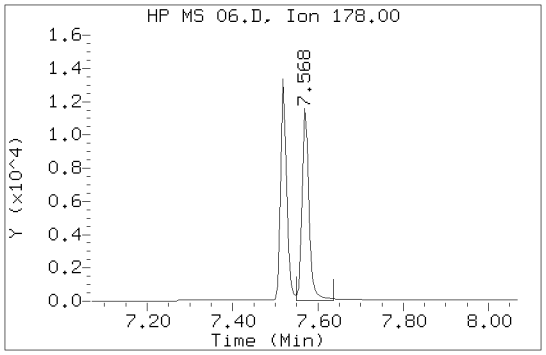
BEFORE

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



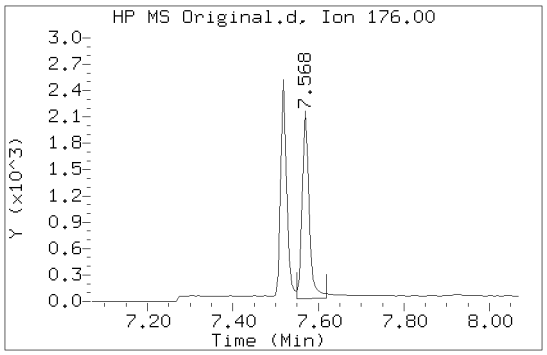
AFTER

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



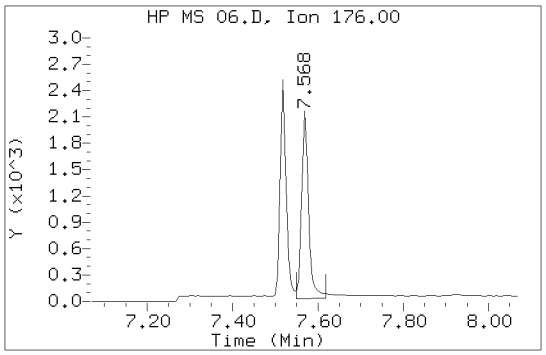
BEFORE

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



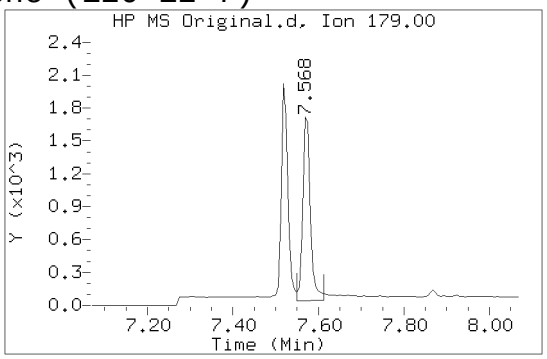
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Anthracene (120-12-7)

Reason Code:

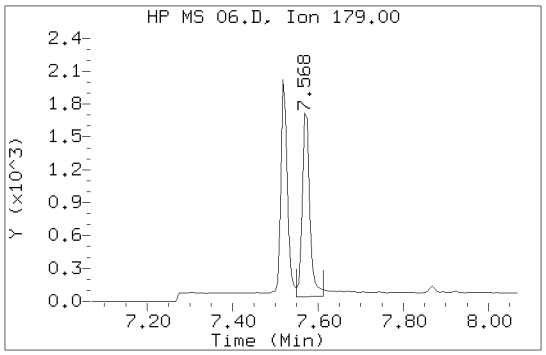
BEFORE

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

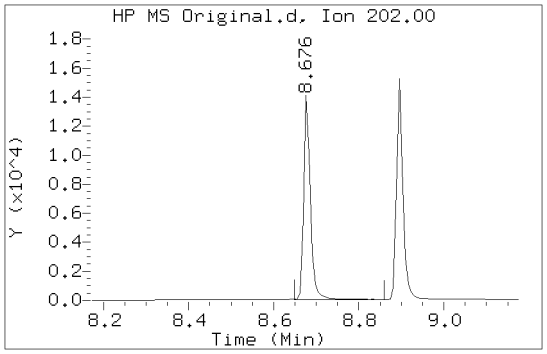


Fluoranthene (206-44-0)

Reason Code:

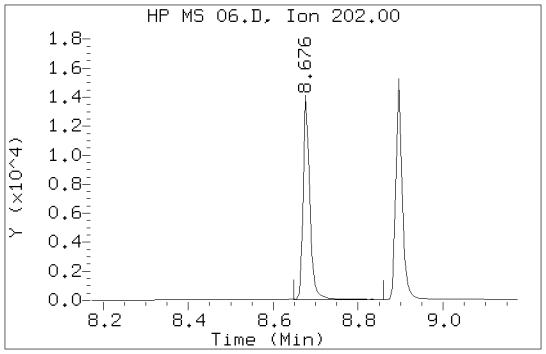
BEFORE

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



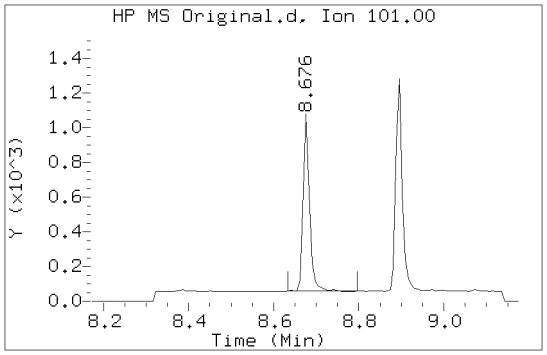
AFTER

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



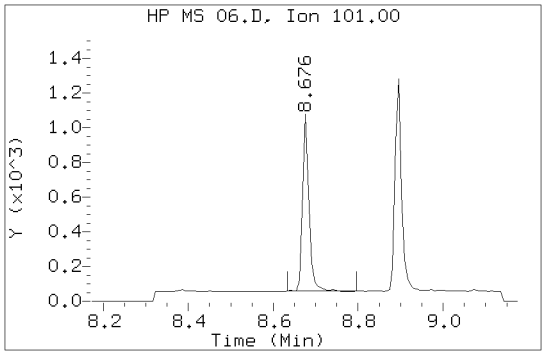
BEFORE

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



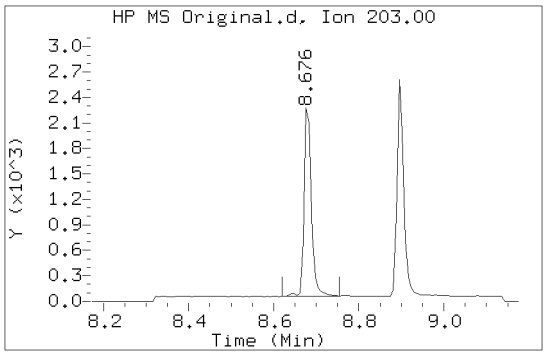
AFTER

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



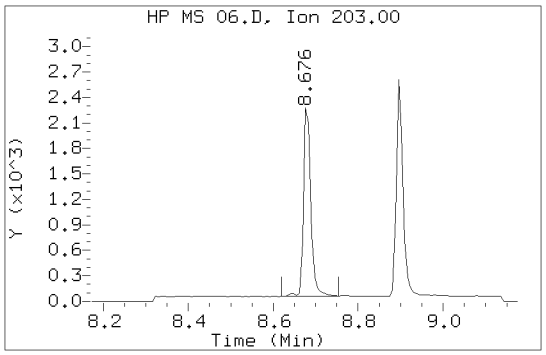
BEFORE

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



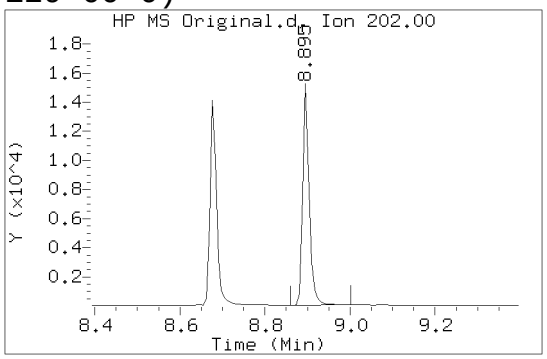
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Pyrene (129-00-0)

Reason Code:

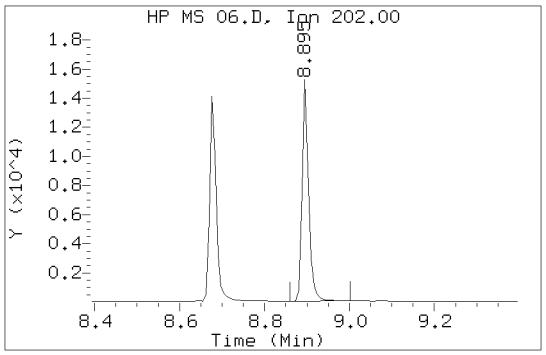
BEFORE

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



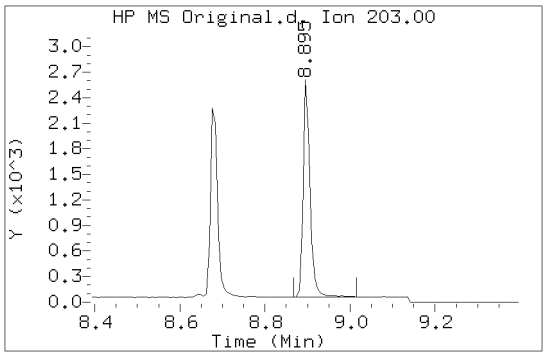
AFTER

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



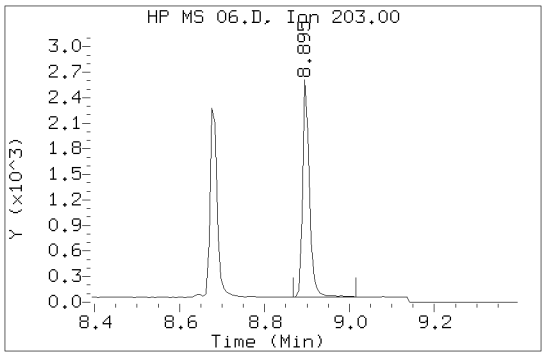
BEFORE

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



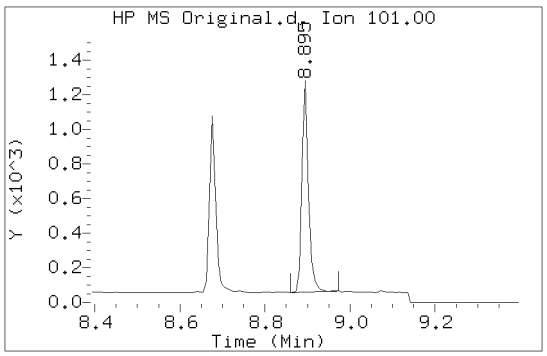
AFTER

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



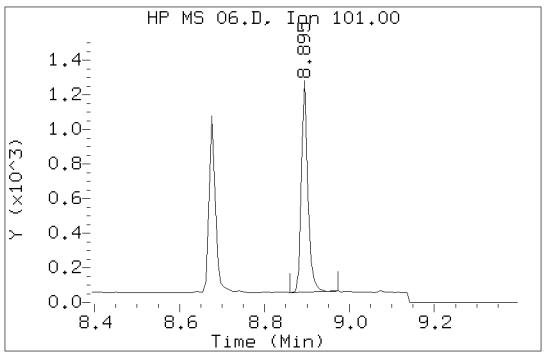
BEFORE

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

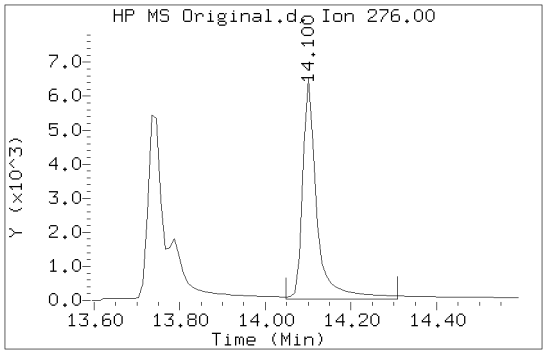


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

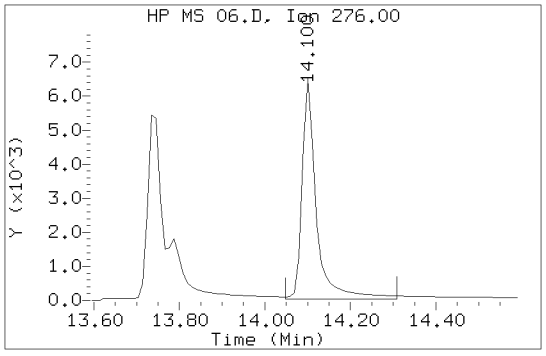
BEFORE

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



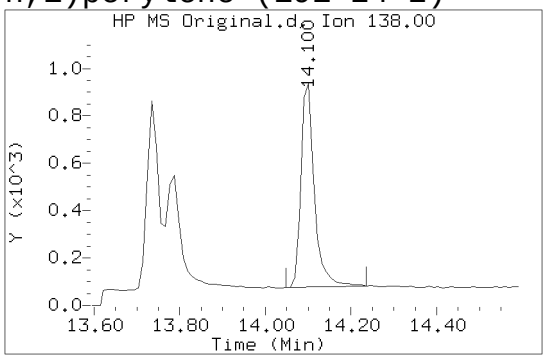
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

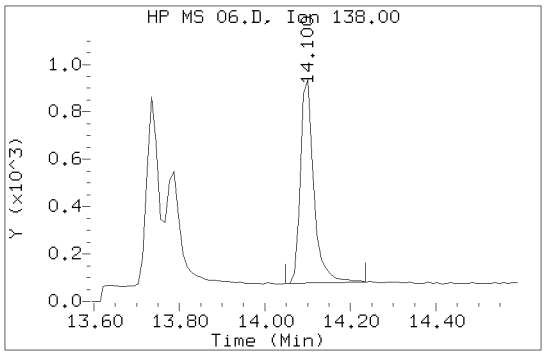
BEFORE

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



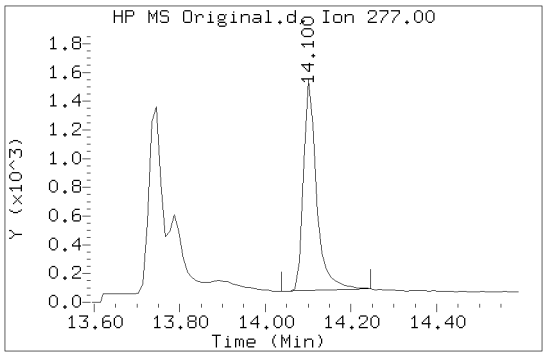
AFTER

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



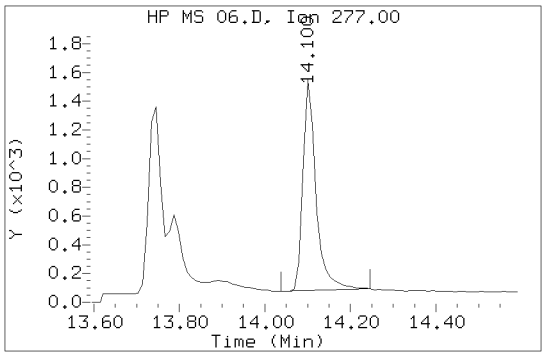
BEFORE

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

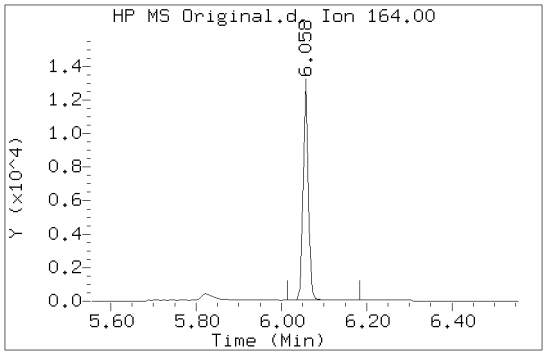


Acenaphthene-d10 (15067-26-2)

Reason Code:

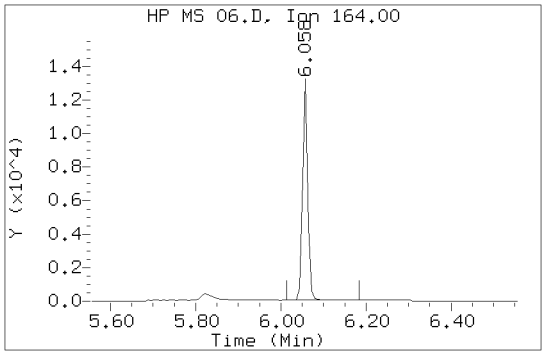
BEFORE

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



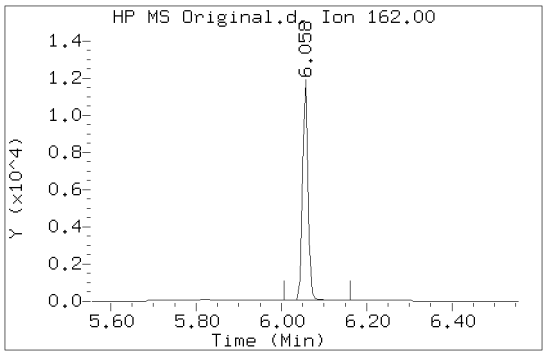
AFTER

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



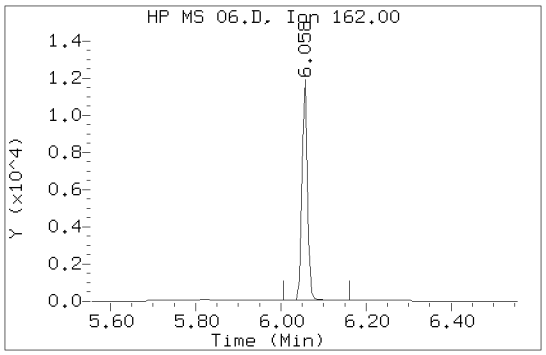
BEFORE

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



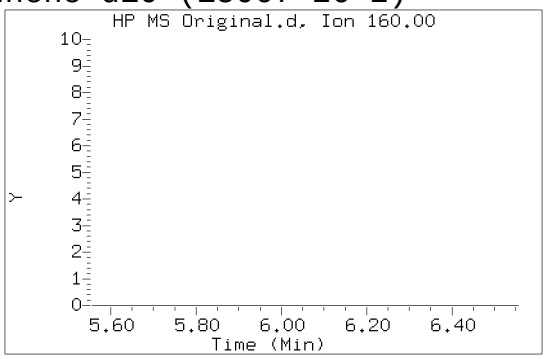
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthene-d10 (15067-26-2)

Reason Code:

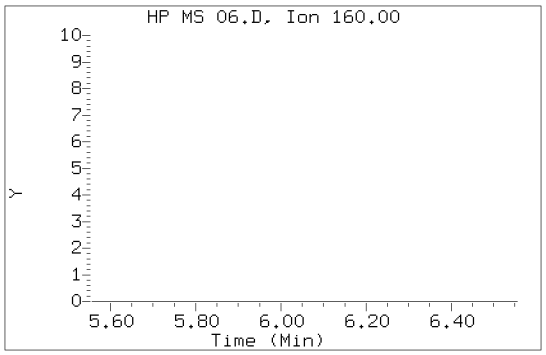
BEFORE

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

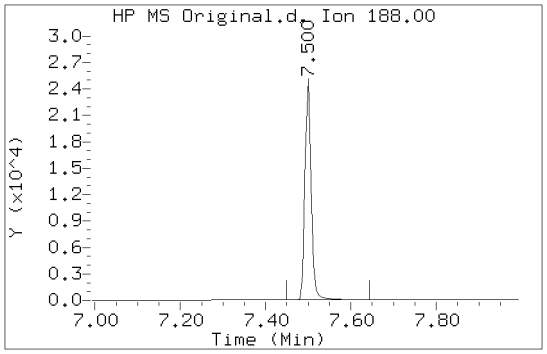


Phenanthrene-d10 (1517-22-2)

Reason Code:

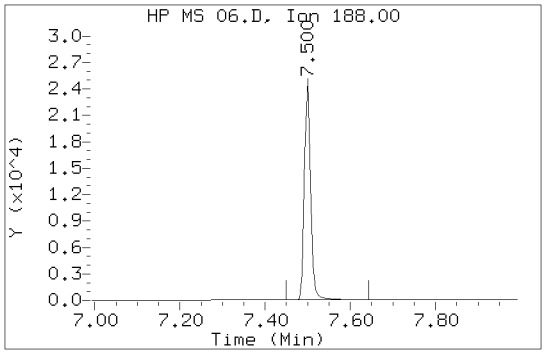
BEFORE

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



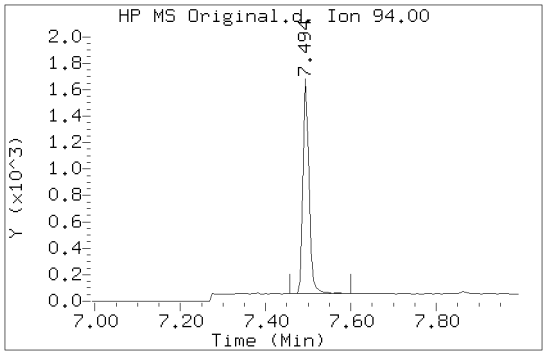
AFTER

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



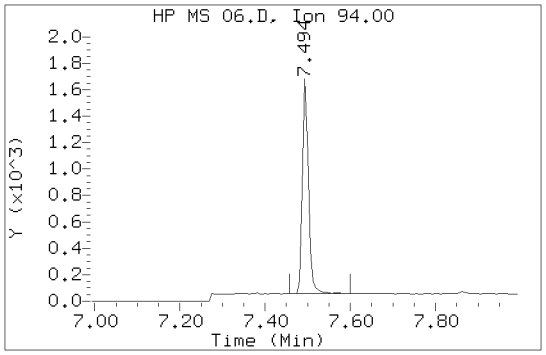
BEFORE

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



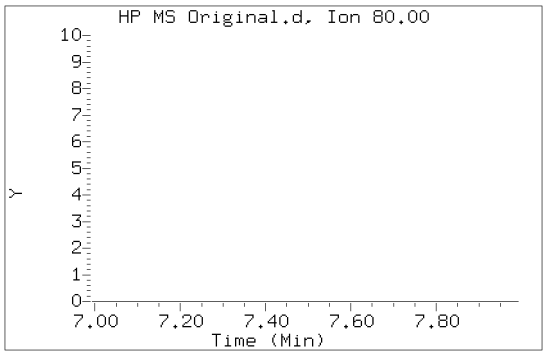
AFTER

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



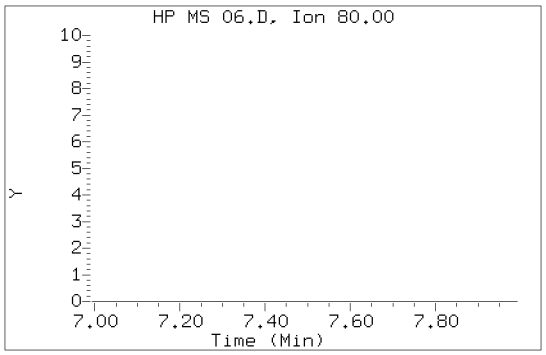
BEFORE

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



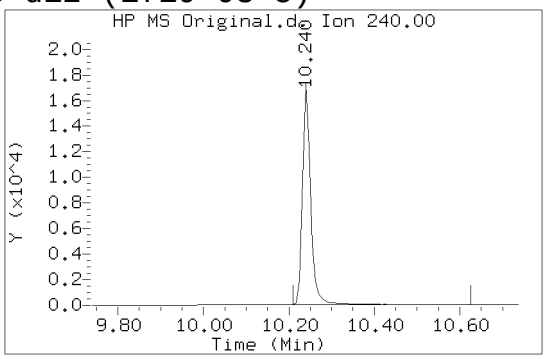
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Chrysene-d12 (1719-03-5)

Reason Code:

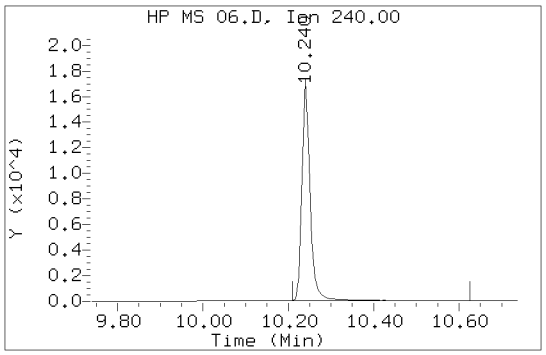
BEFORE

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



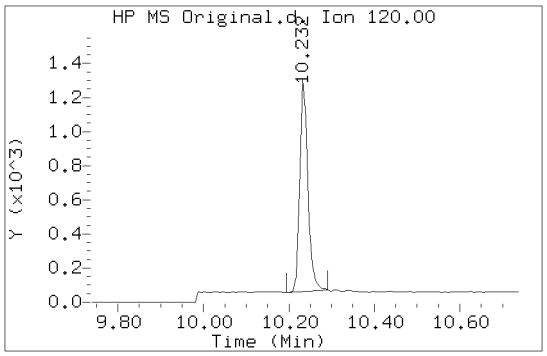
AFTER

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



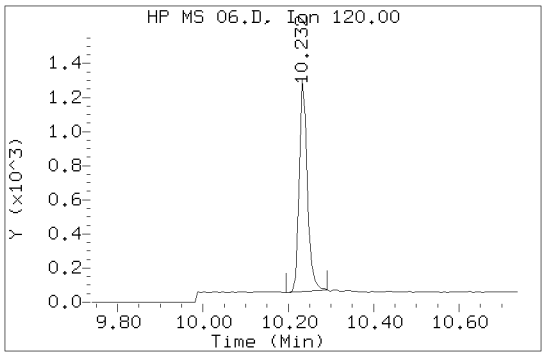
BEFORE

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



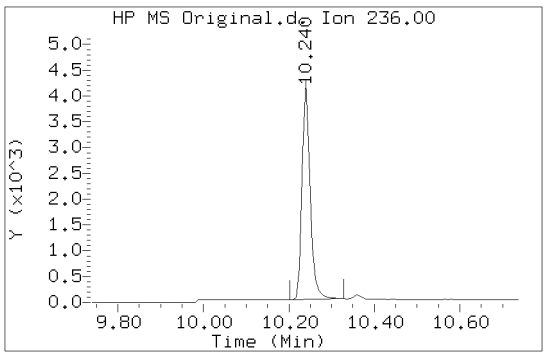
AFTER

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



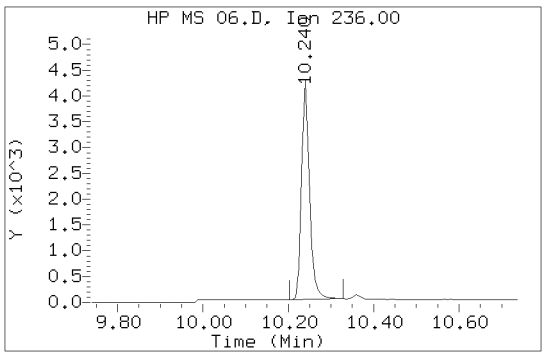
BEFORE

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

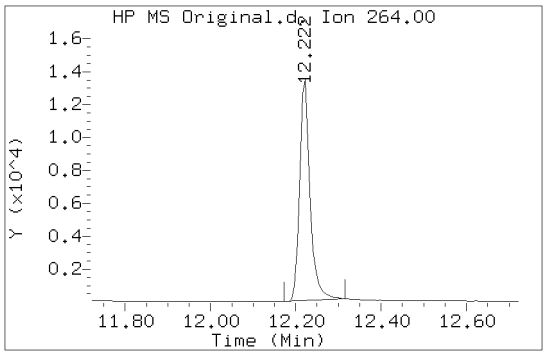


Perylene-d12 (1520-96-3)

Reason Code:

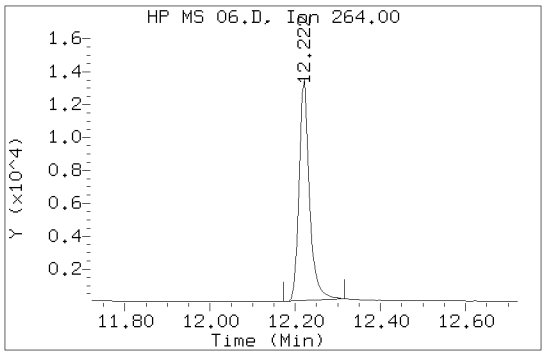
BEFORE

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



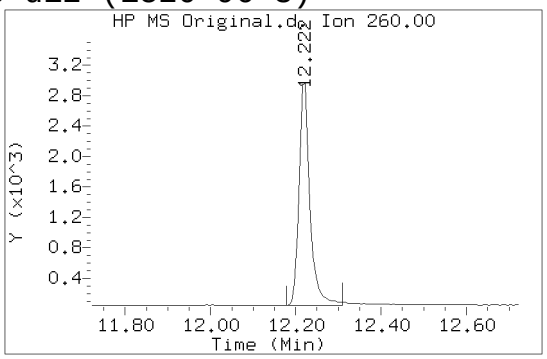
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Perylene-d12 (1520-96-3)

Reason Code:

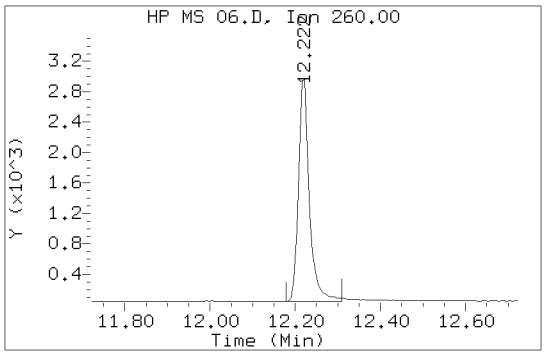
BEFORE

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



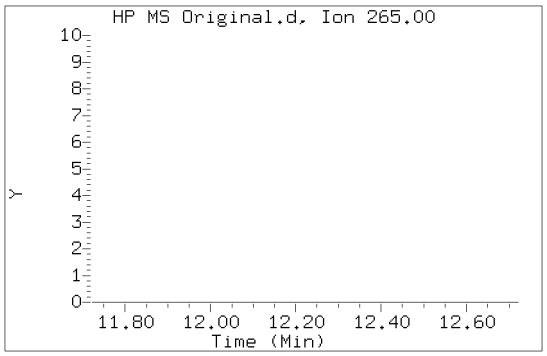
AFTER

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



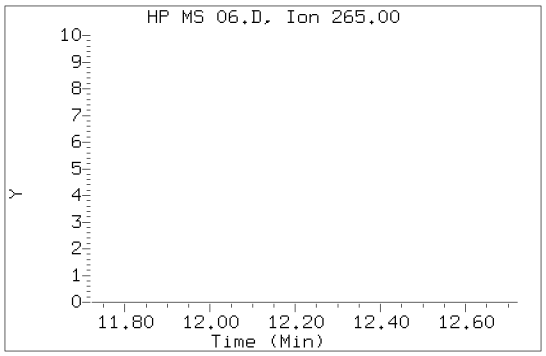
BEFORE

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

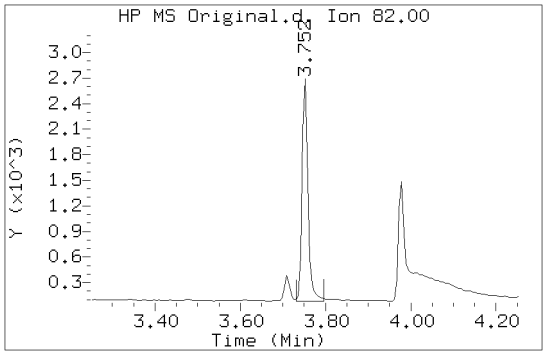


Nitrobenzene-d5 (4165-60-0)

Reason Code:

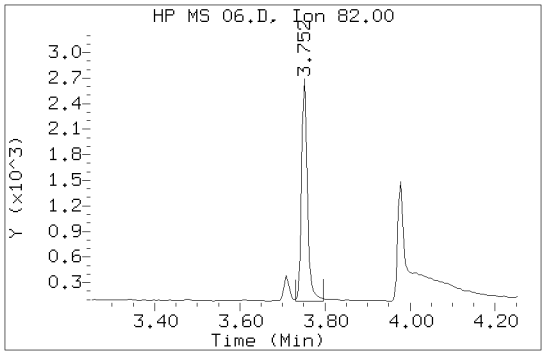
BEFORE

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



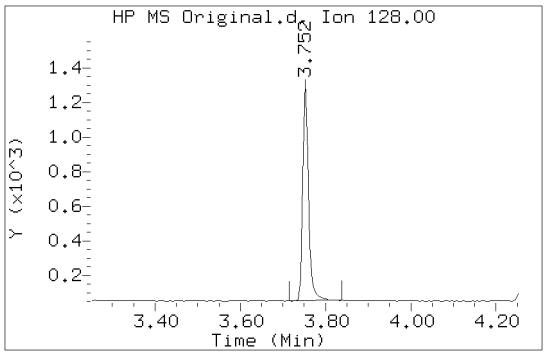
AFTER

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



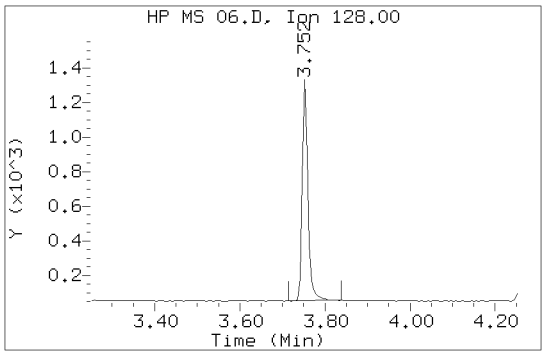
BEFORE

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



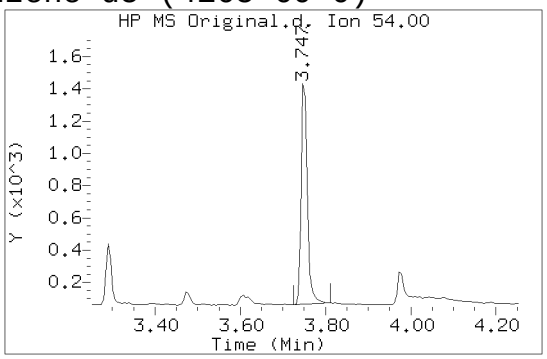
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Nitrobenzene-d5 (4165-60-0)

Reason Code:

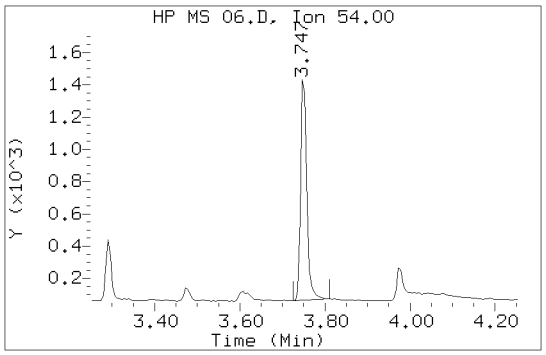
BEFORE

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

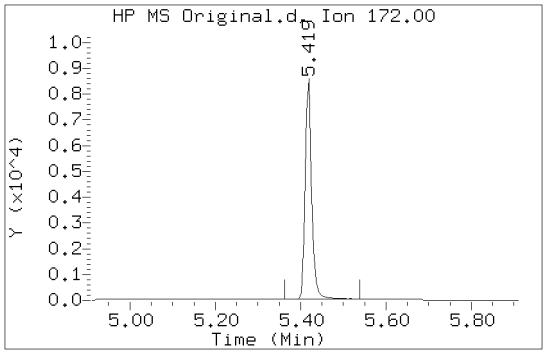


2-Fluorobiphenyl (321-60-8)

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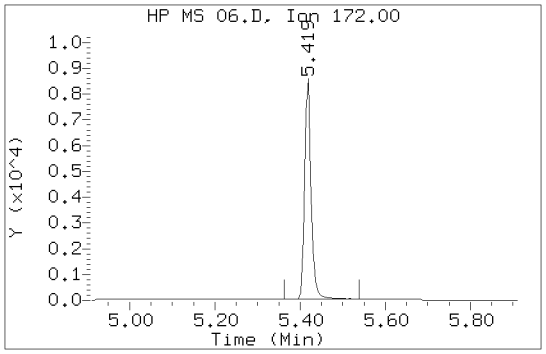
BEFORE

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172
AREA
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HEIGHT
8547
18-Dec-2023
10:16
linh
pham



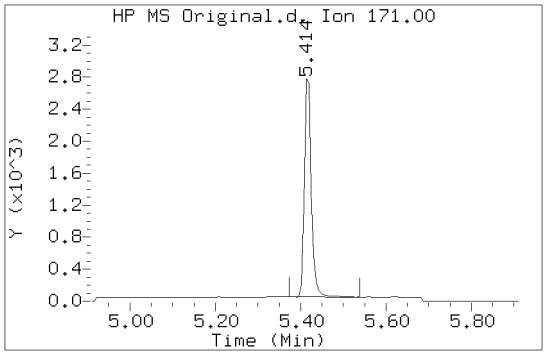
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AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



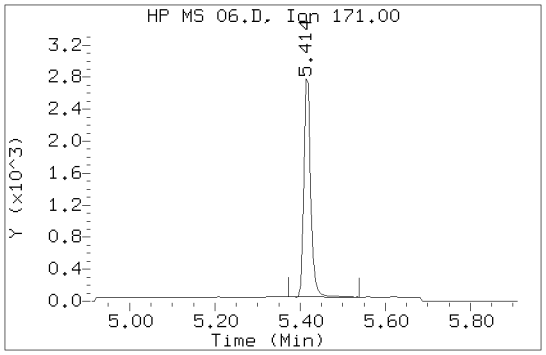
BEFORE

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

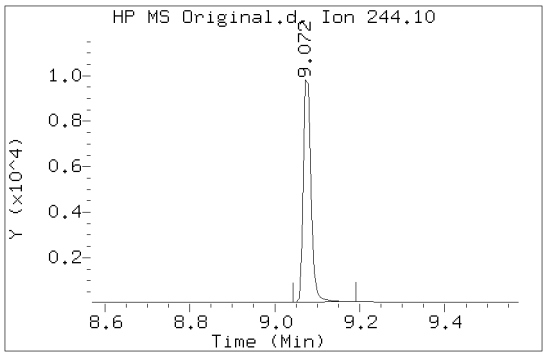


4-Terphenyl-d14 (1718-51-0)

Reason Code:

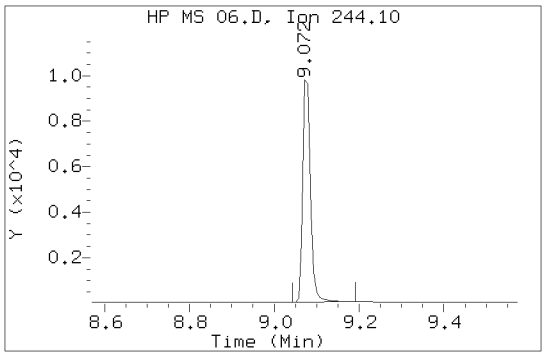
BEFORE

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



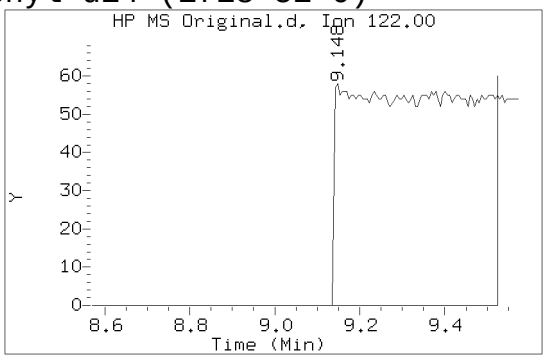
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

4-Terphenyl-d14 (1718-51-0)

Reason Code:

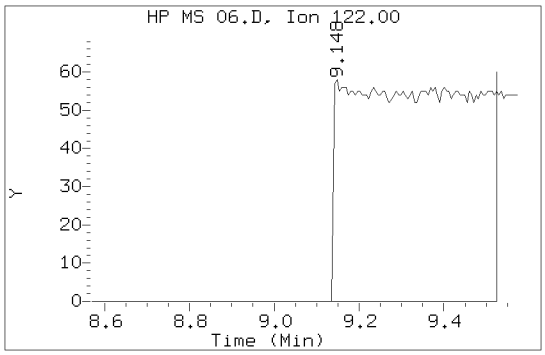
BEFORE

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



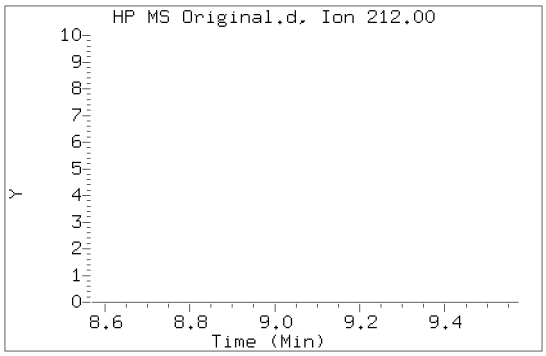
AFTER

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AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



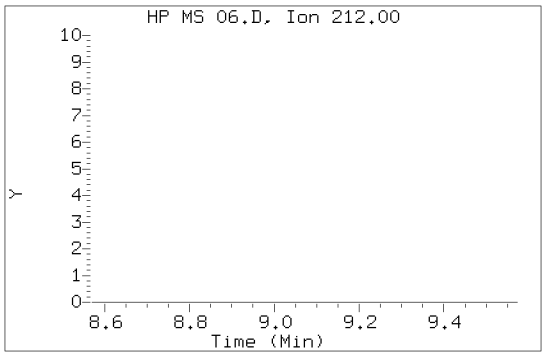
BEFORE

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

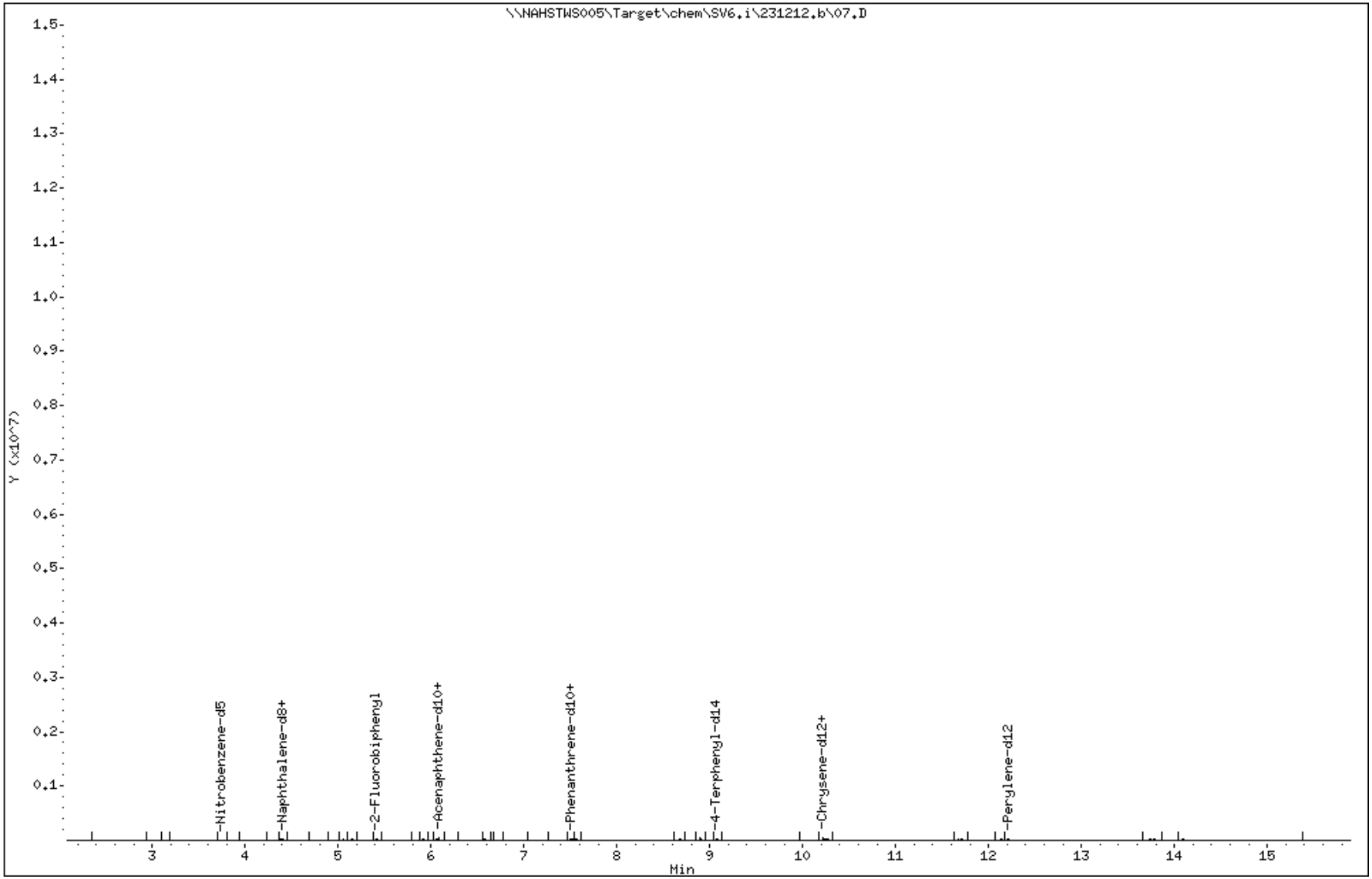
Sample Info: PAHSIM-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



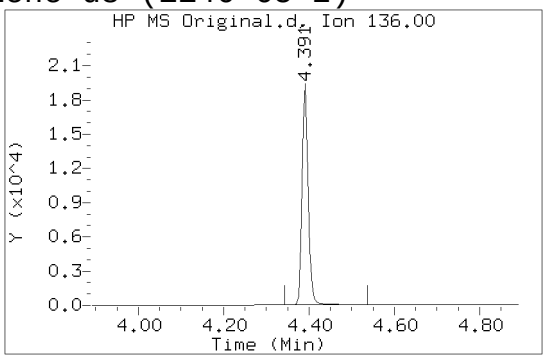
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

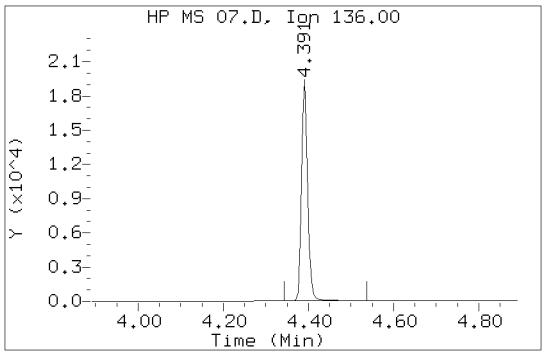
BEFORE

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



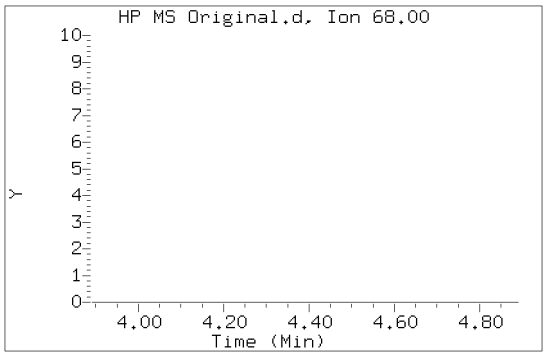
AFTER

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



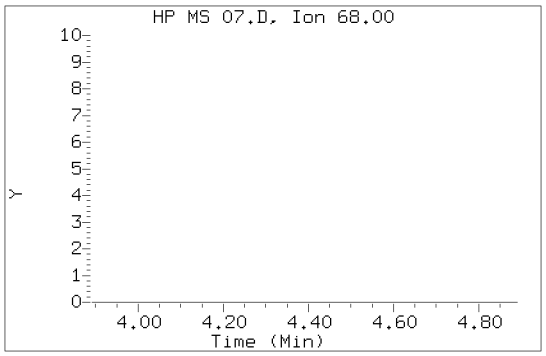
BEFORE

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AREA
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HEIGHT
0
18-Dec-2023
10:16
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pham



AFTER

MASS
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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

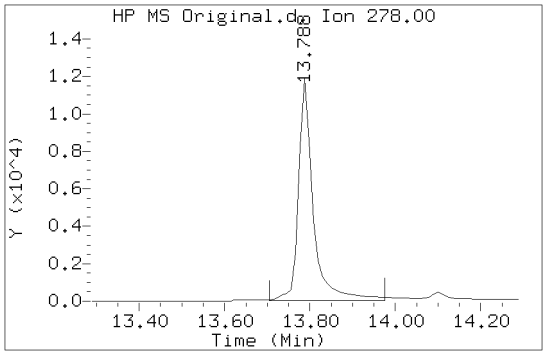


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

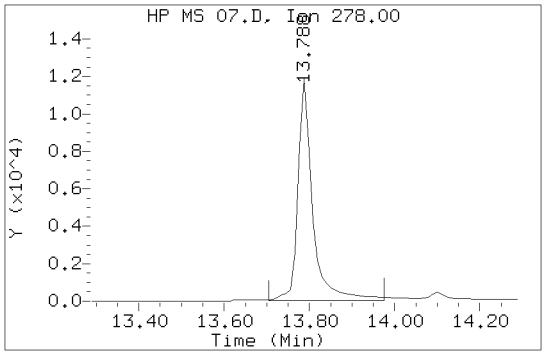
BEFORE

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28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



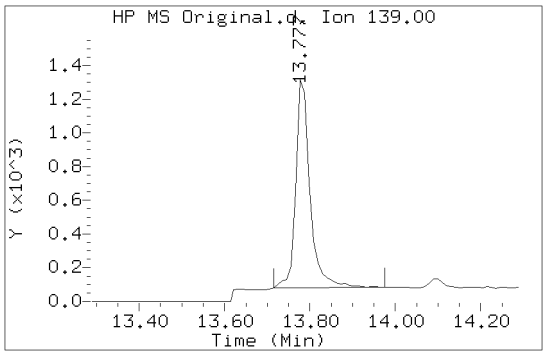
AFTER

MASS
278
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28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



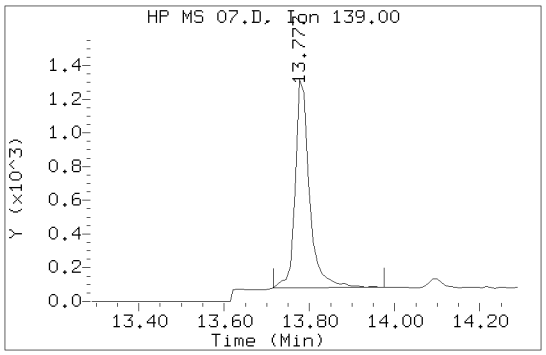
BEFORE

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



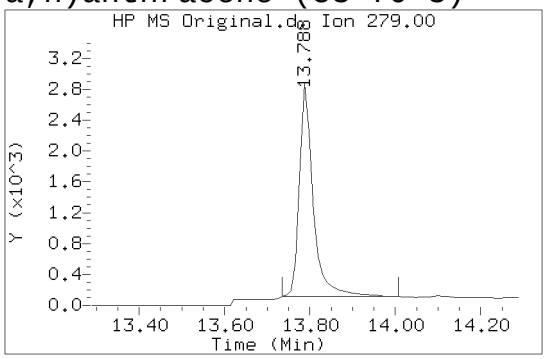
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

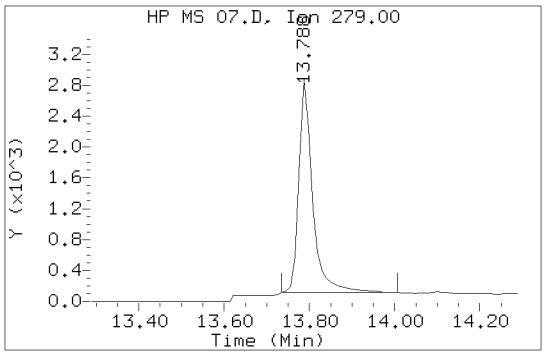
BEFORE

MASS
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AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham

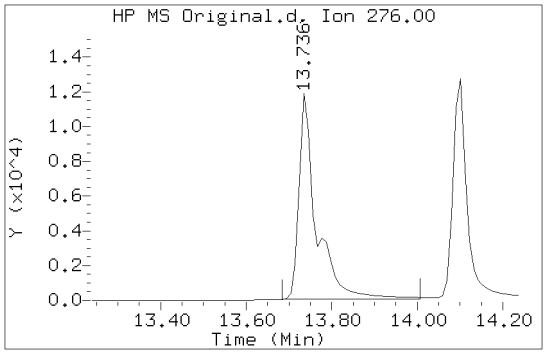


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

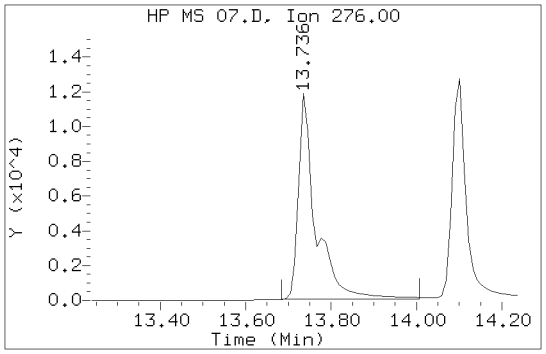
BEFORE

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AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



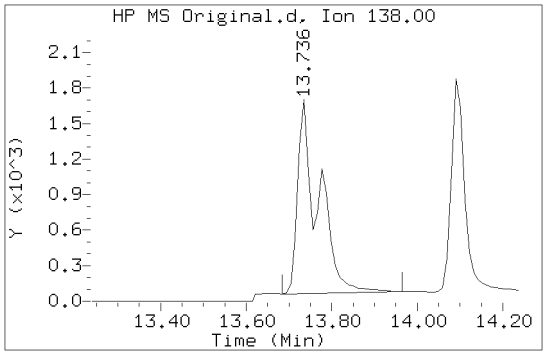
AFTER

MASS
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AREA
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HEIGHT
11840
18-Dec-2023
10:16
linh
pham



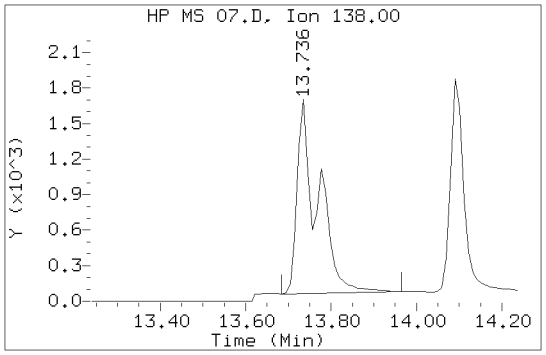
BEFORE

MASS
138
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



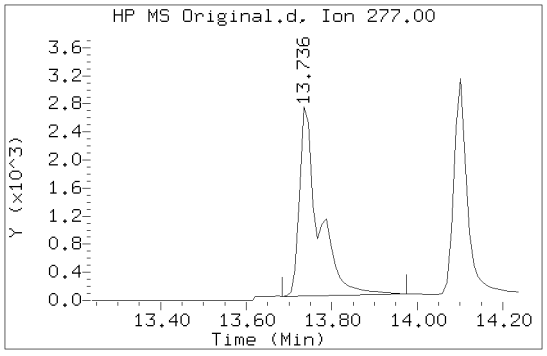
AFTER

MASS
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AREA
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1640
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10:16
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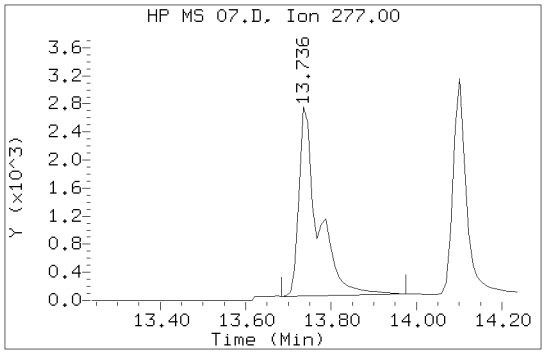
BEFORE

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
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linh
pham



AFTER

MASS
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AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



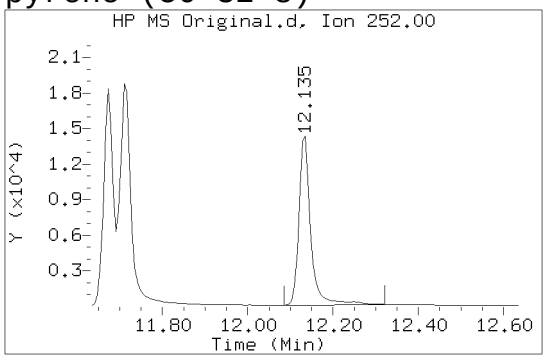
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(a)pyrene (50-32-8)

Reason Code:

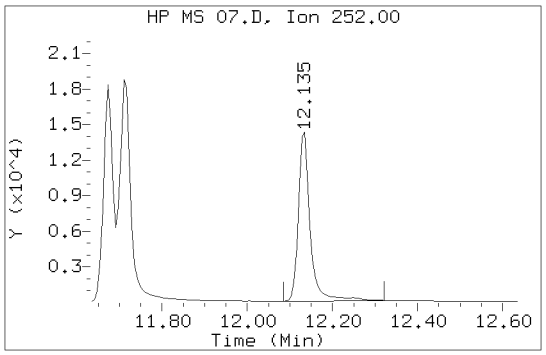
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14228
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10:16
linh
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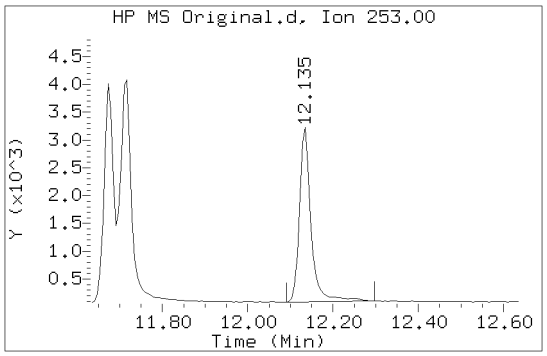
AFTER

MASS
252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



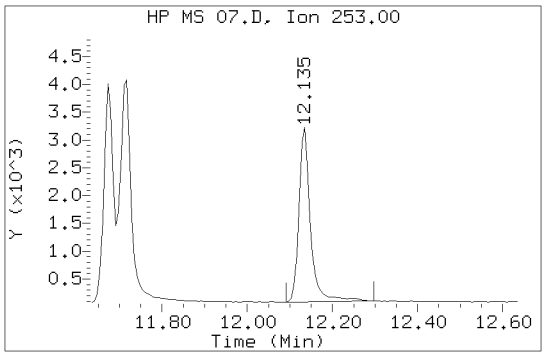
BEFORE

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



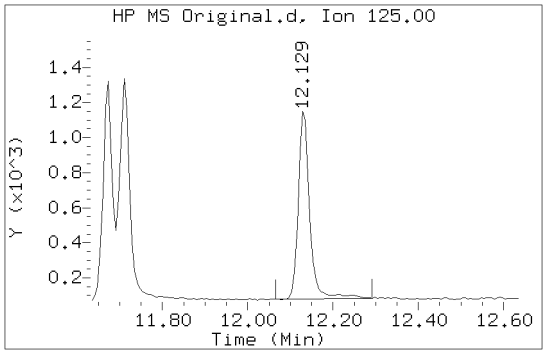
AFTER

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



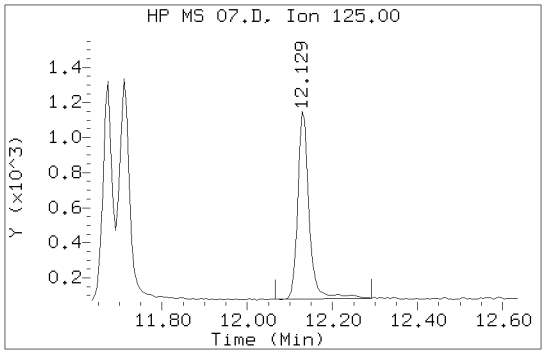
BEFORE

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

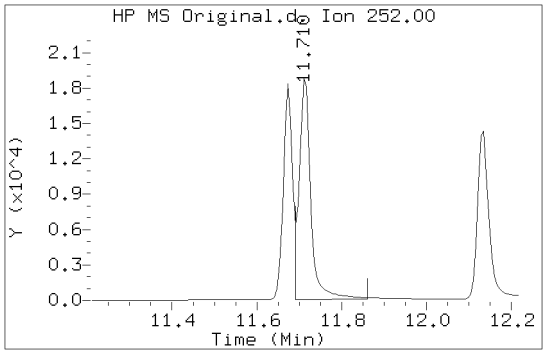


Benzo(k)fluoranthene (207-08-9)

Reason Code:

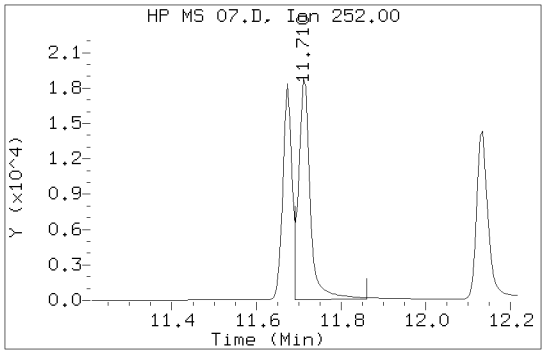
BEFORE

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



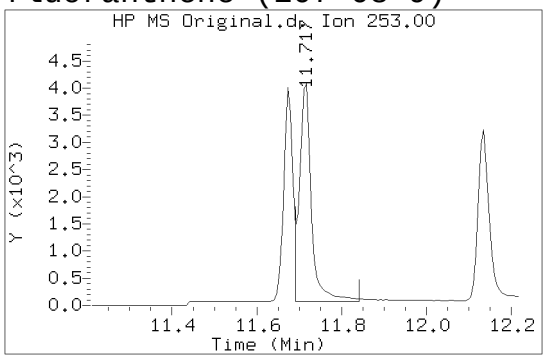
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(k)fluoranthene (207-08-9)

Reason Code:

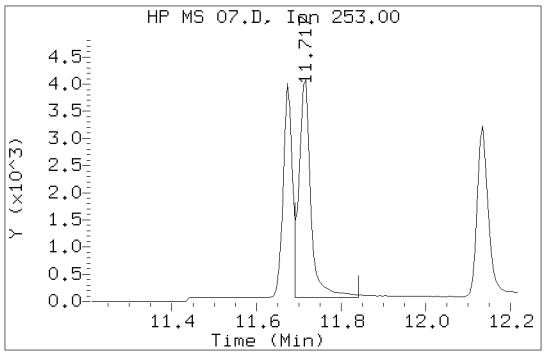
BEFORE

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



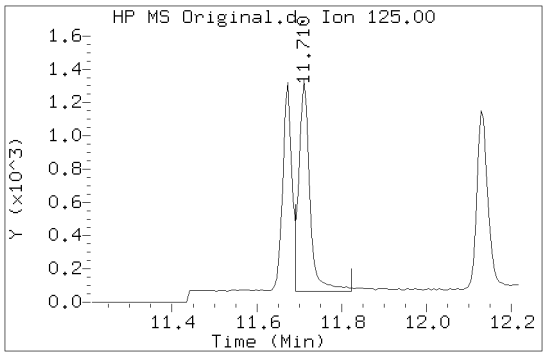
AFTER

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



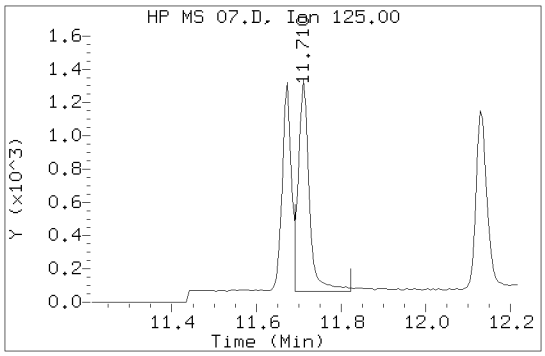
BEFORE

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

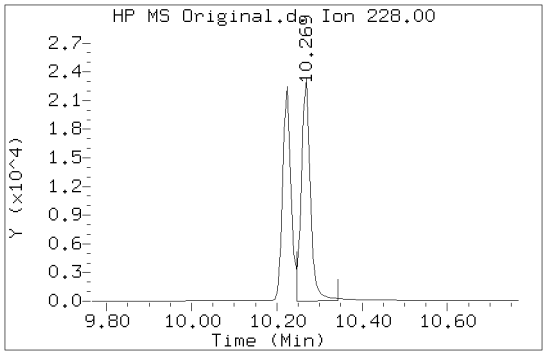


Chrysene (218-01-9)

Reason Code:

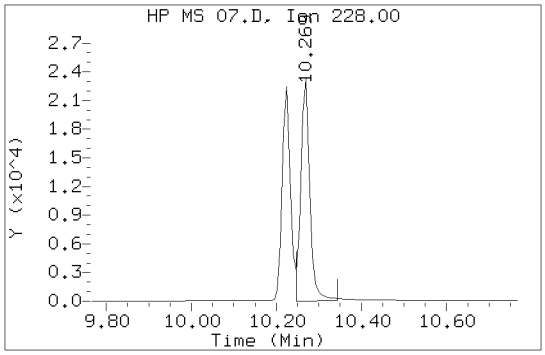
BEFORE

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



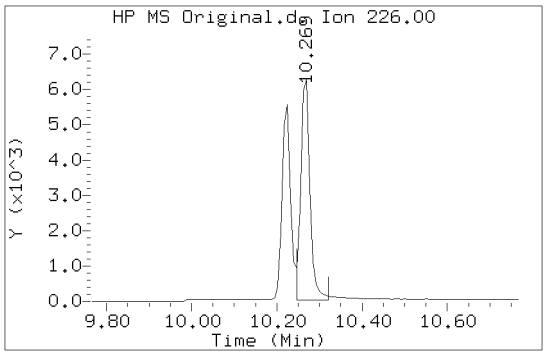
AFTER

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



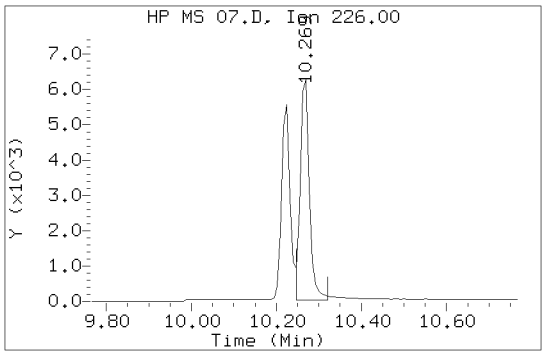
BEFORE

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



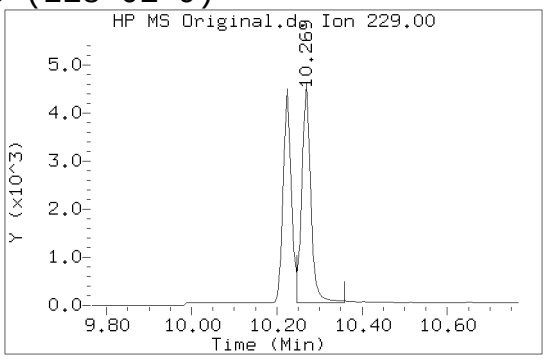
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Chrysene (218-01-9)

Reason Code:

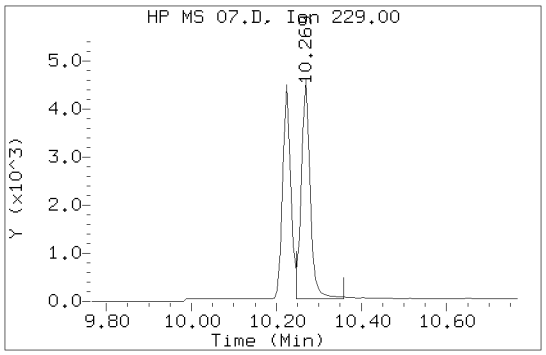
BEFORE

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

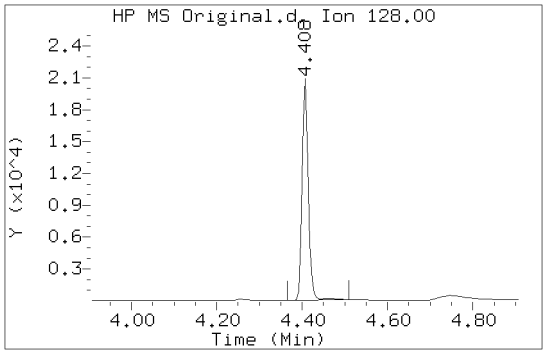


Naphthalene (91-20-3)

Reason Code:

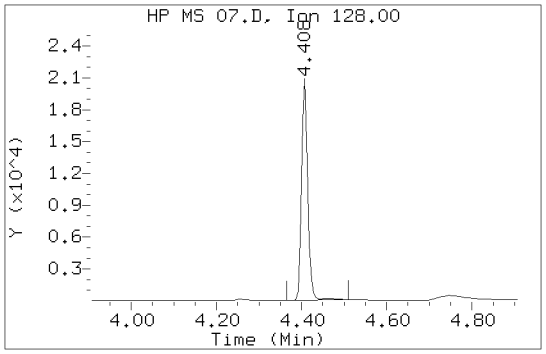
BEFORE

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



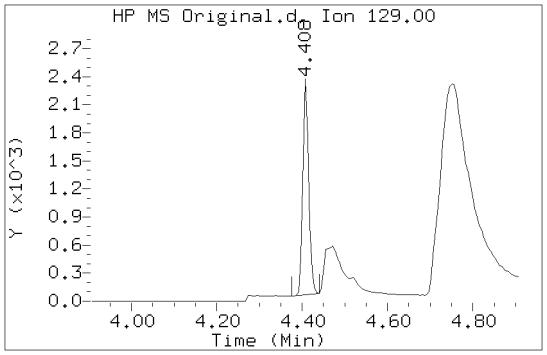
AFTER

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



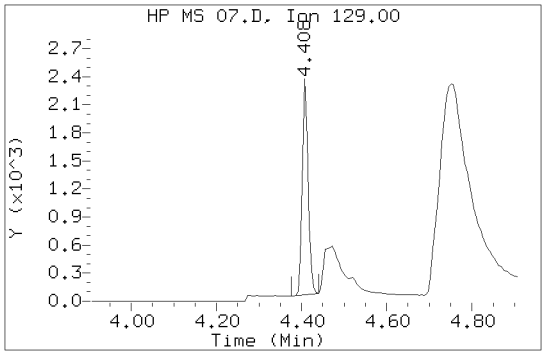
BEFORE

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

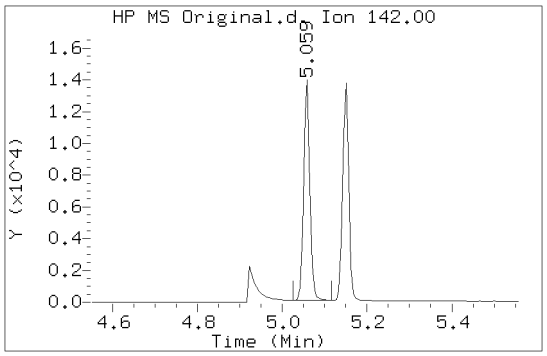


2-Methylnaphthalene (91-57-6)

Reason Code:

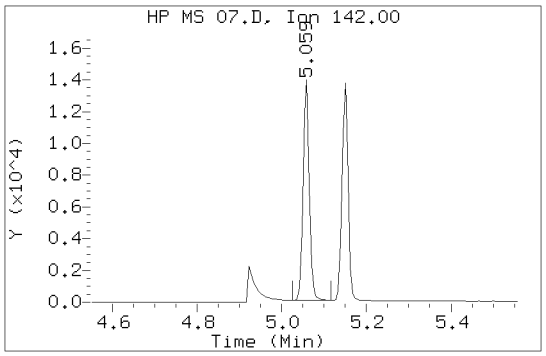
BEFORE

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



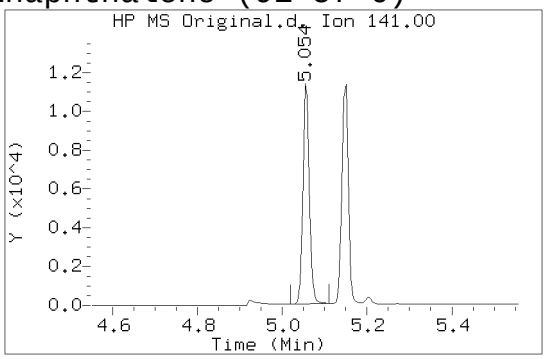
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

2-Methylnaphthalene (91-57-6)

Reason Code:

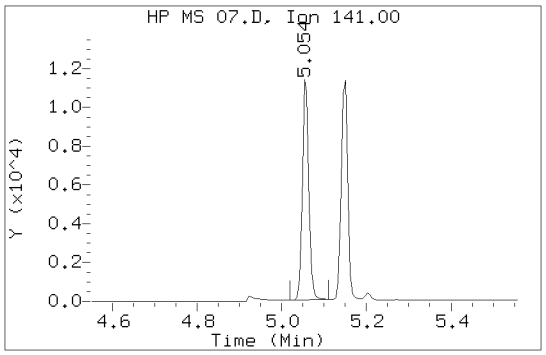
BEFORE

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

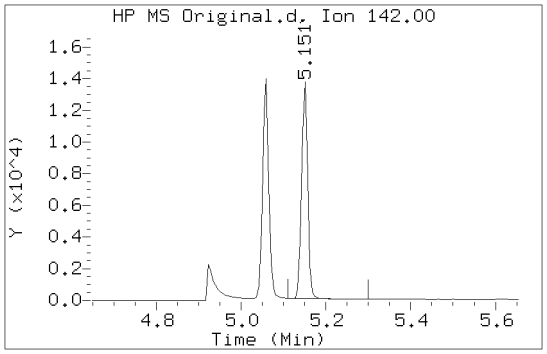


1-Methylnaphthalene (90-12-0)

Reason Code:

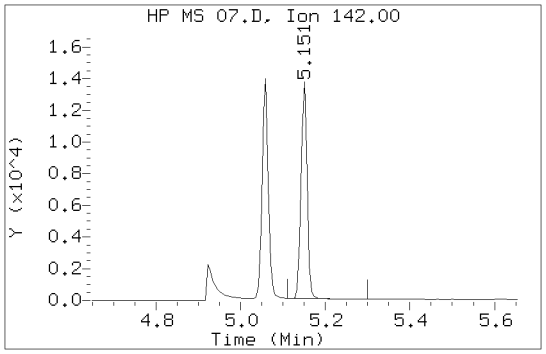
BEFORE

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



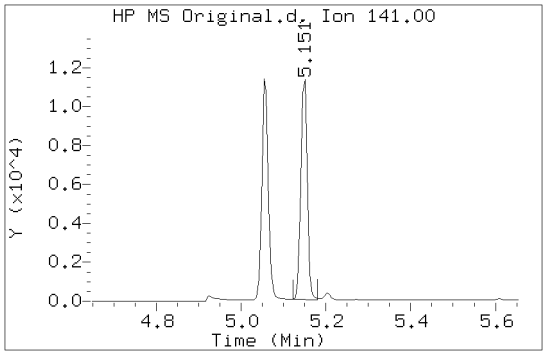
AFTER

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



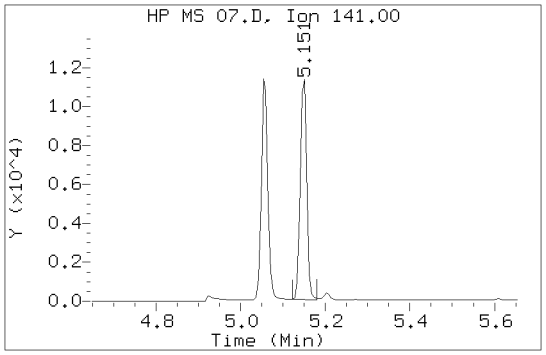
BEFORE

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

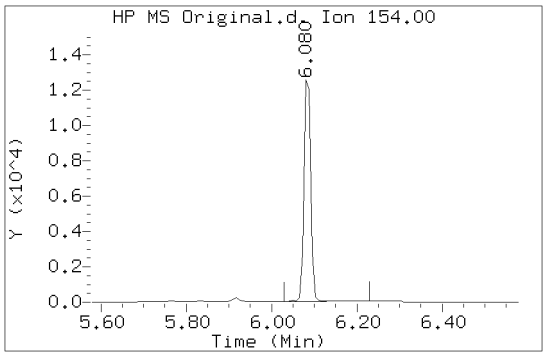


Acenaphthene (83-32-9)

Reason Code:

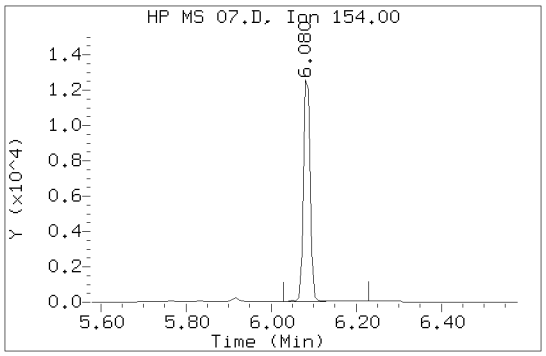
BEFORE

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



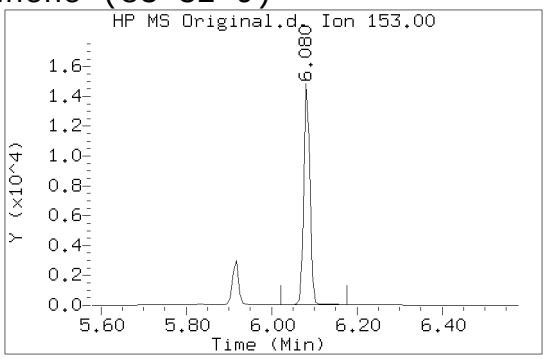
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene (83-32-9)

Reason Code:

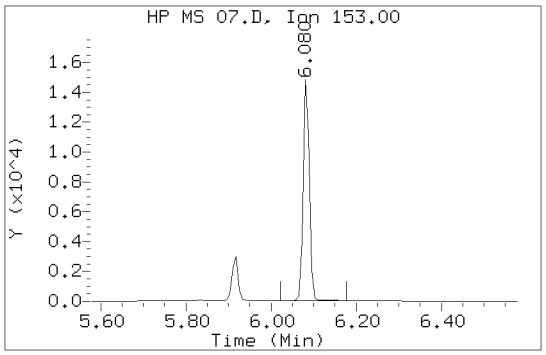
BEFORE

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



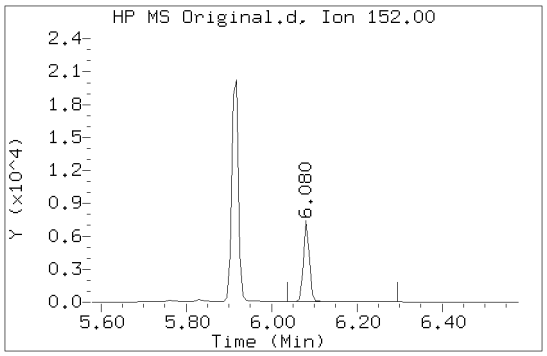
AFTER

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



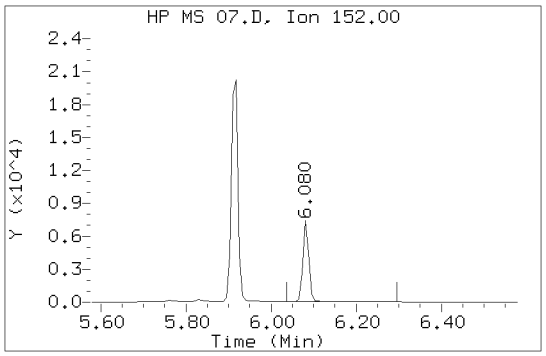
BEFORE

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

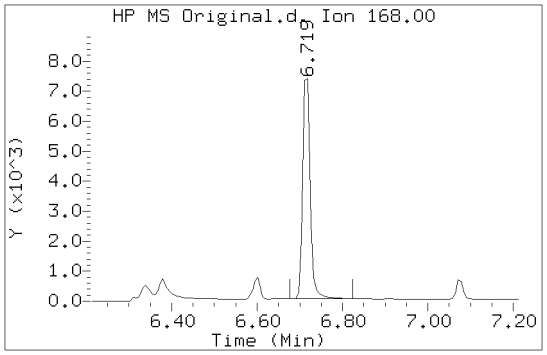


Dibenzofuran (132-64-9)

Reason Code:

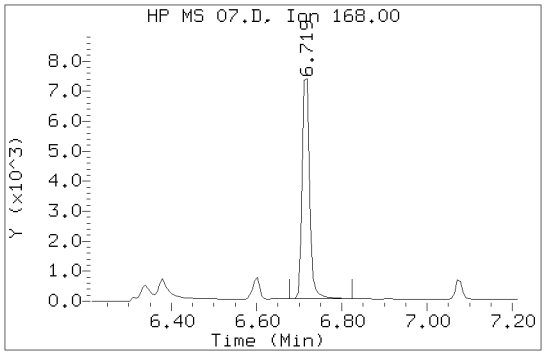
BEFORE

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



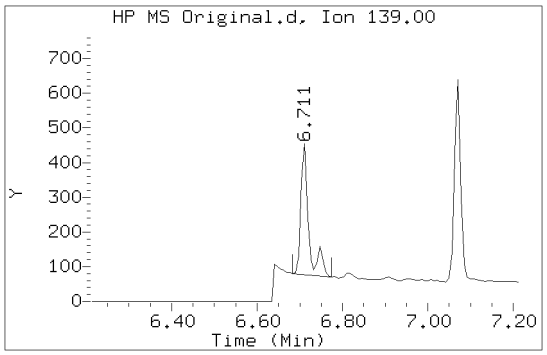
AFTER

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



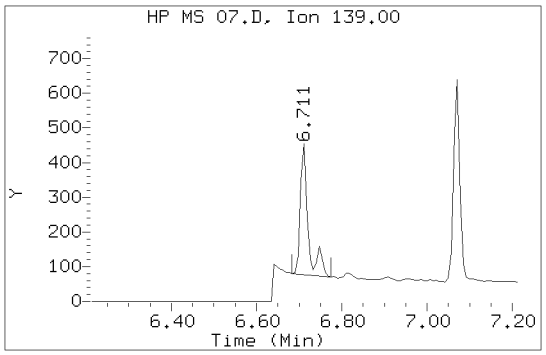
BEFORE

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



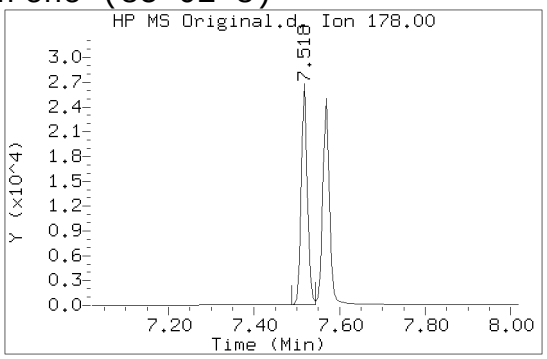
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene (85-01-8)

Reason Code:

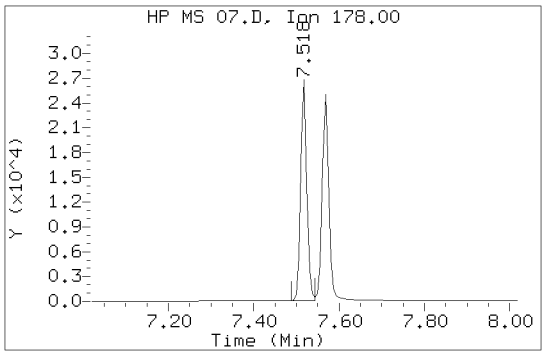
BEFORE

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



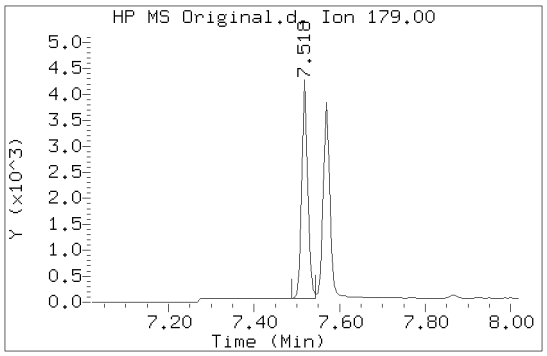
AFTER

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



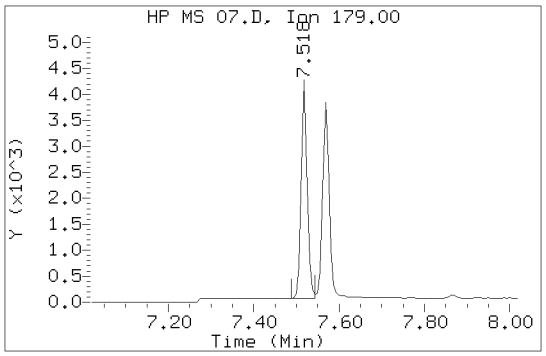
BEFORE

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



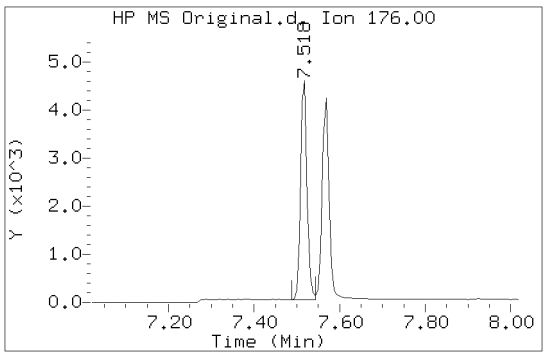
AFTER

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



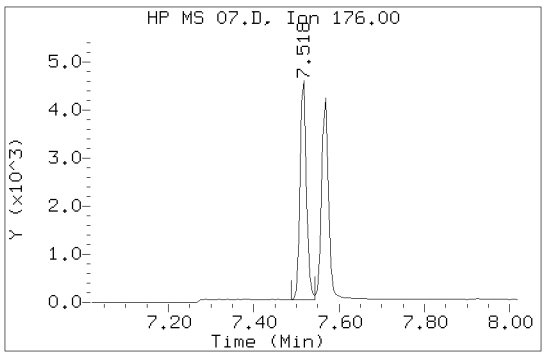
BEFORE

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

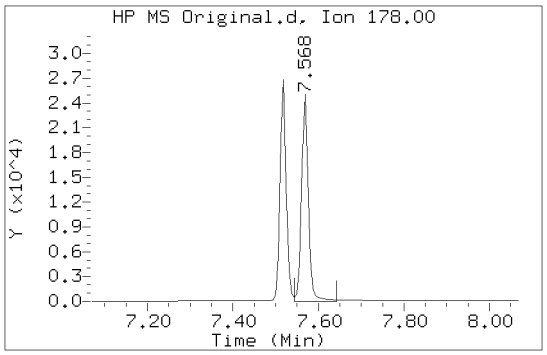


Anthracene (120-12-7)

Reason Code:

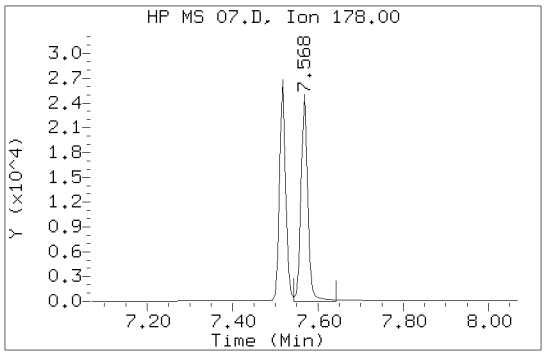
BEFORE

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



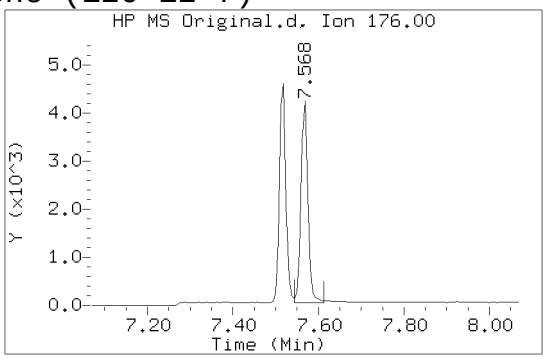
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Anthracene (120-12-7)

Reason Code:

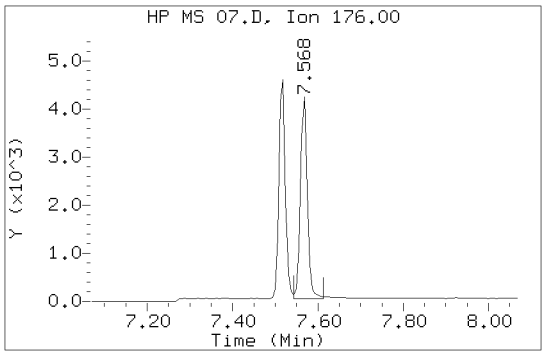
BEFORE

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



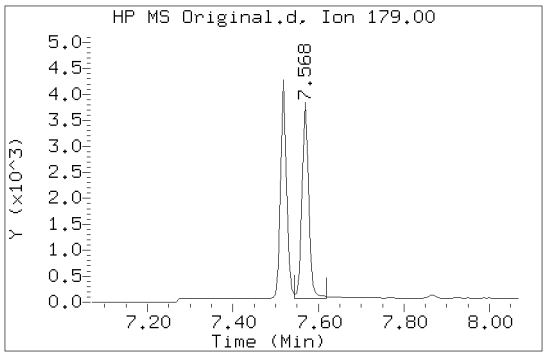
AFTER

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



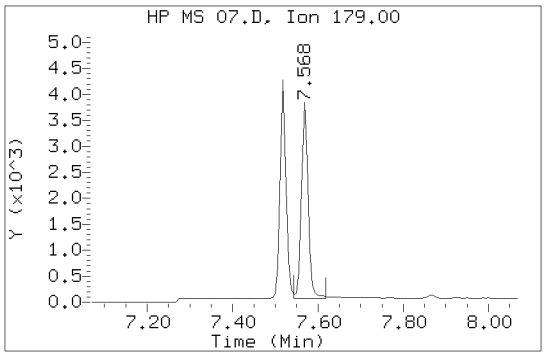
BEFORE

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

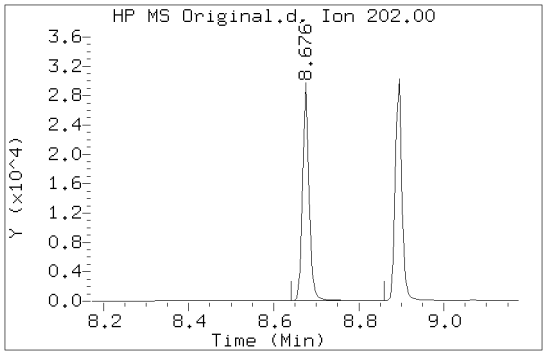


Fluoranthene (206-44-0)

Reason Code:

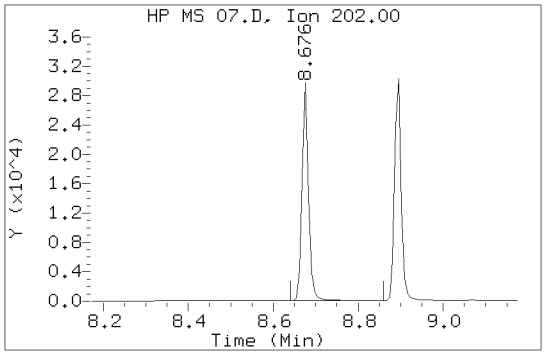
BEFORE

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



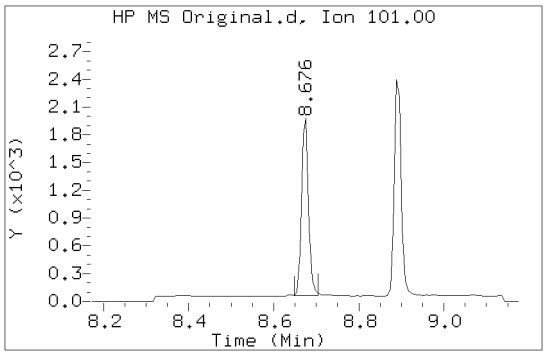
AFTER

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



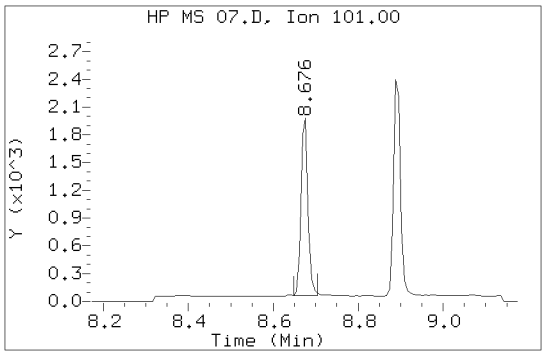
BEFORE

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



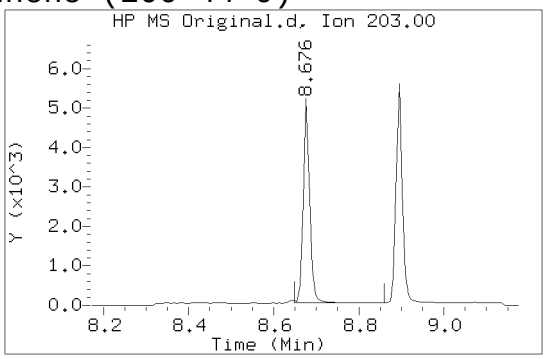
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Fluoranthene (206-44-0)

Reason Code:

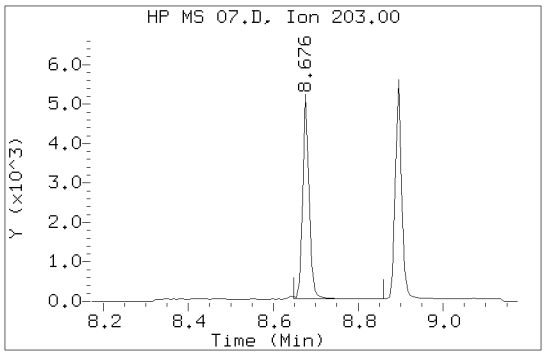
BEFORE

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

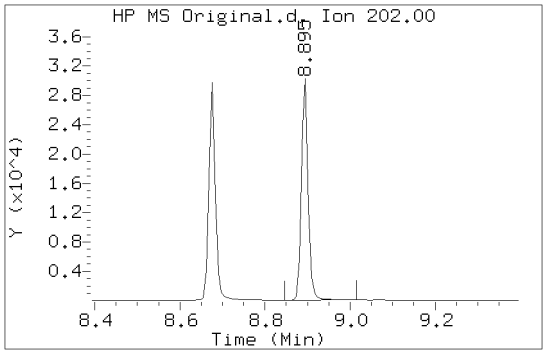


Pyrene (129-00-0)

Reason Code:

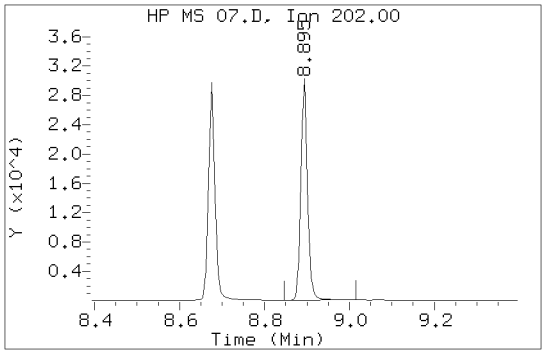
BEFORE

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



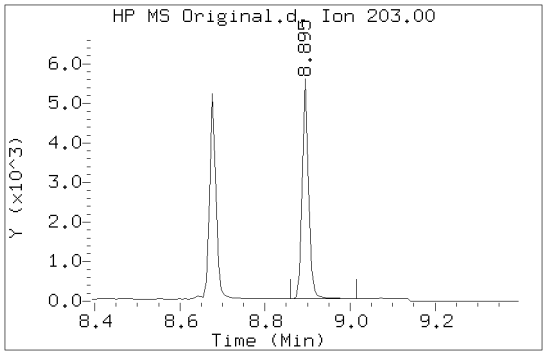
AFTER

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



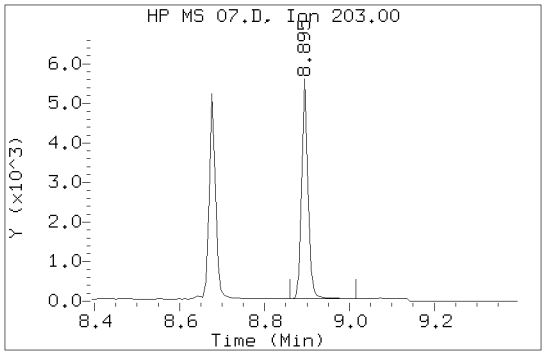
BEFORE

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



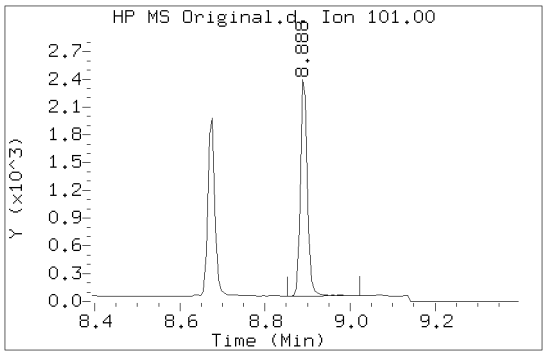
AFTER

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



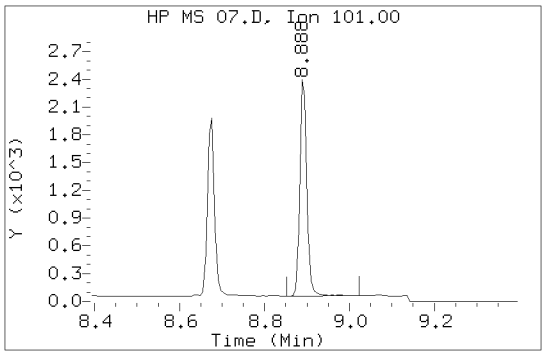
BEFORE

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



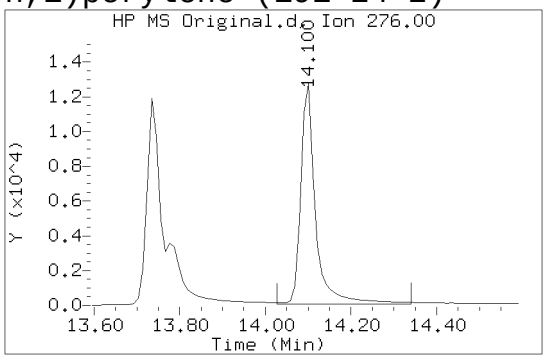
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

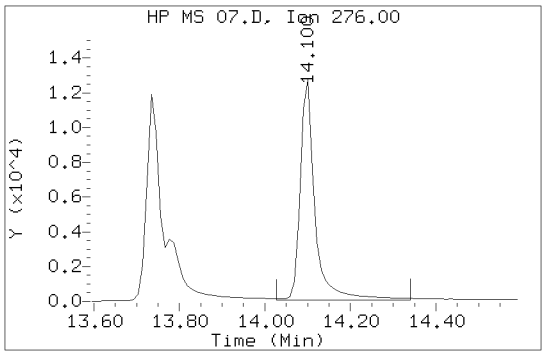
BEFORE

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



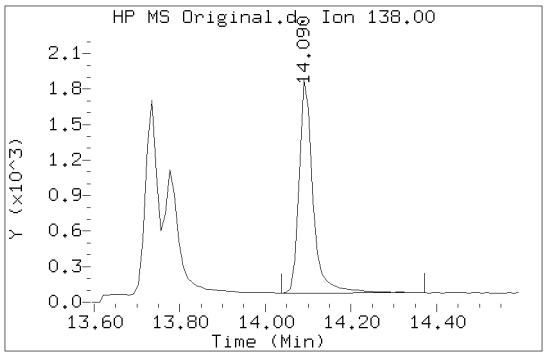
AFTER

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



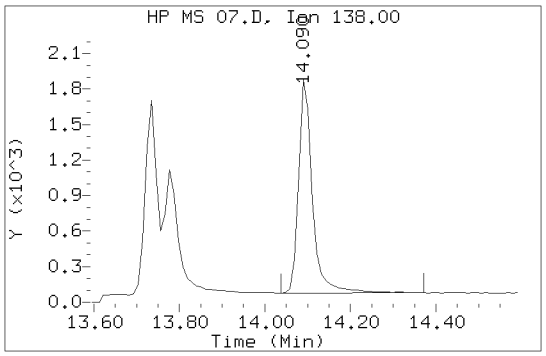
BEFORE

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



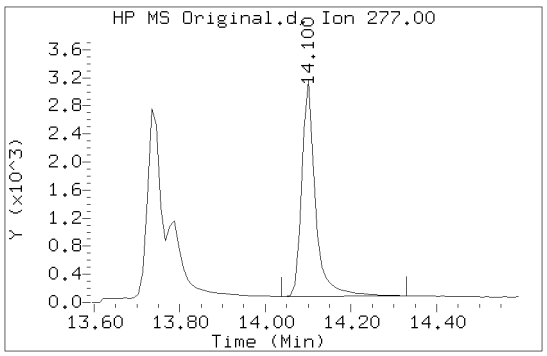
AFTER

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



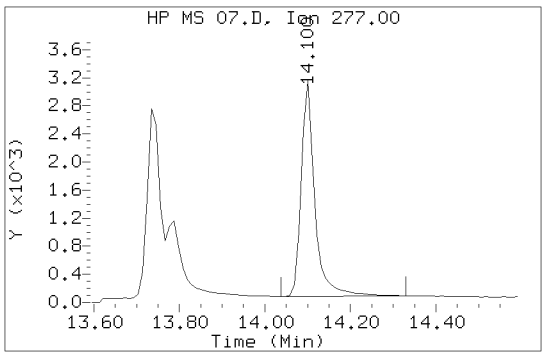
BEFORE

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

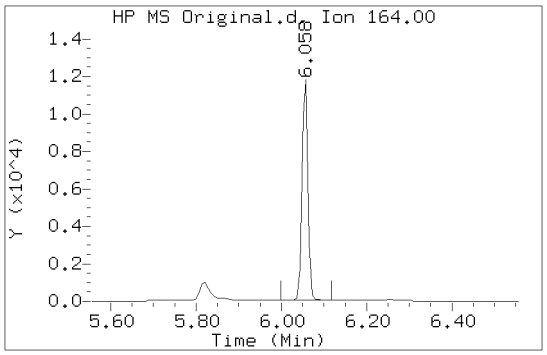


Acenaphthene-d10 (15067-26-2)

Reason Code:

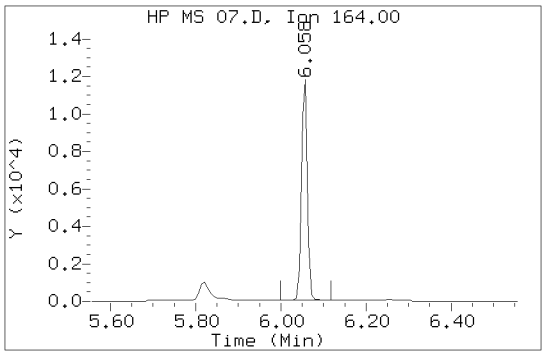
BEFORE

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



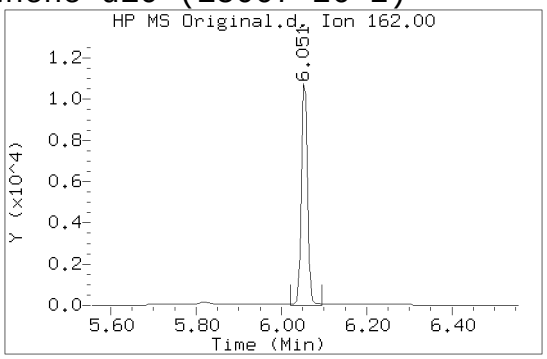
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene-d10 (15067-26-2)

Reason Code:

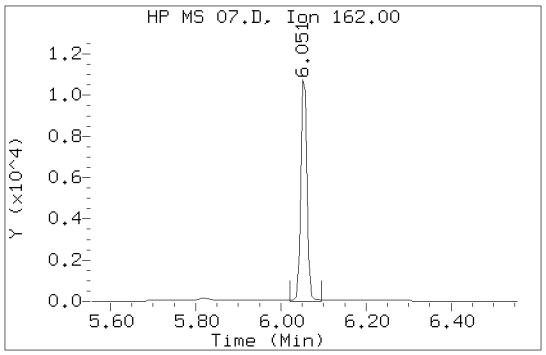
BEFORE

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



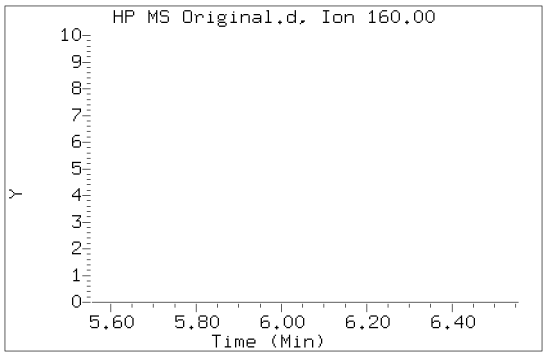
AFTER

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



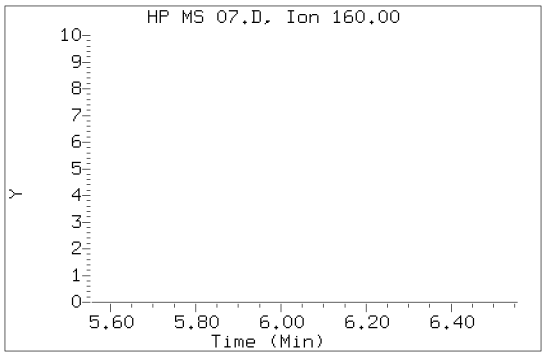
BEFORE

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

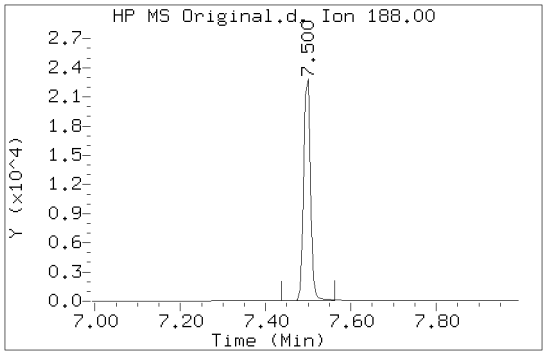


Phenanthrene-d10 (1517-22-2)

Reason Code:

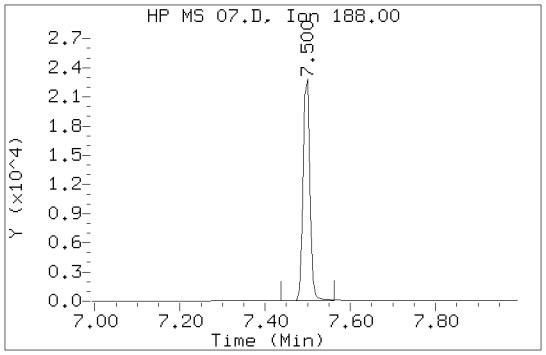
BEFORE

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



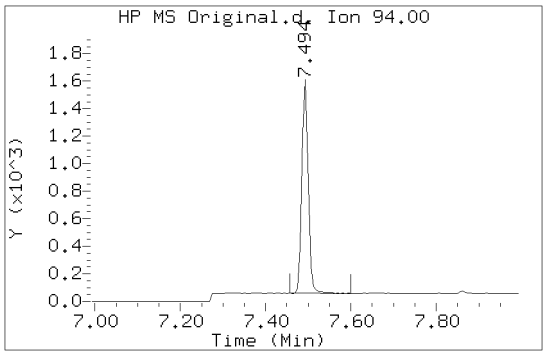
AFTER

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



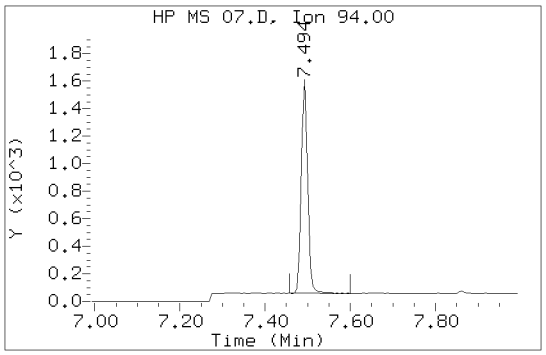
BEFORE

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



AFTER

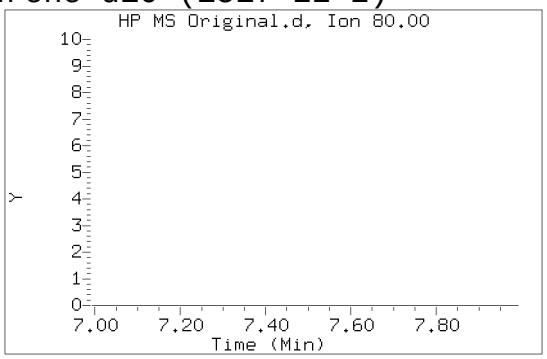
MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



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

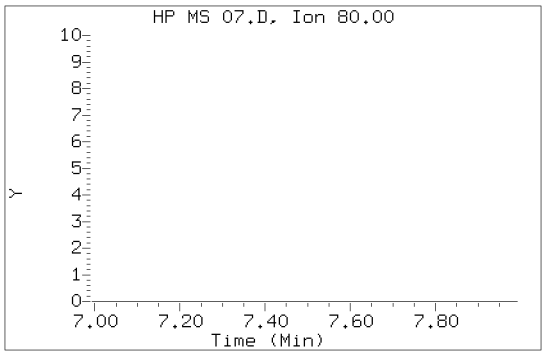
Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



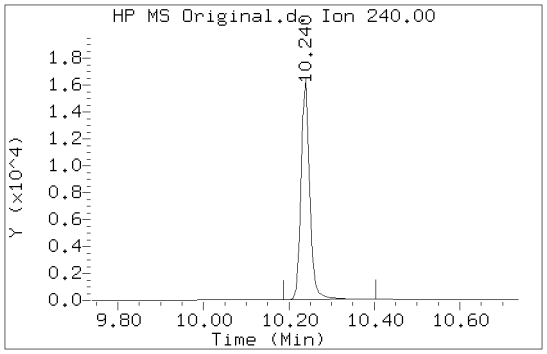
Reason Code:

AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



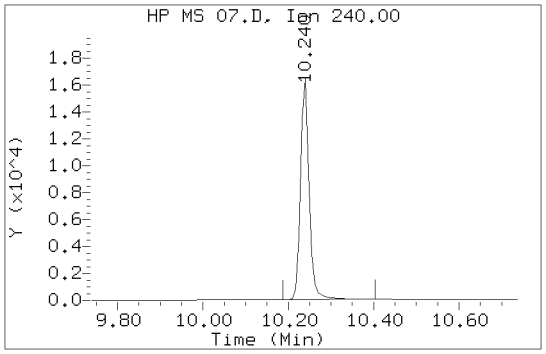
Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham

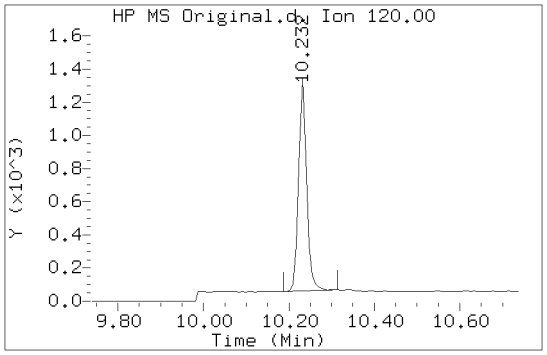


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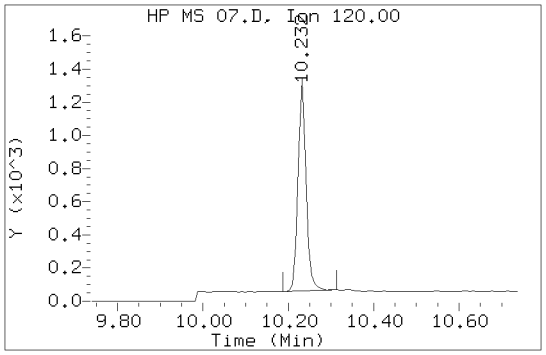
AFTER
MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



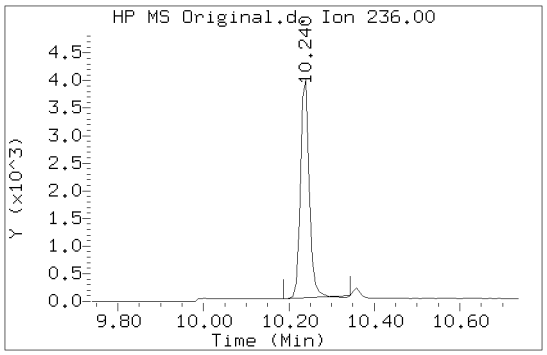
BEFORE
MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
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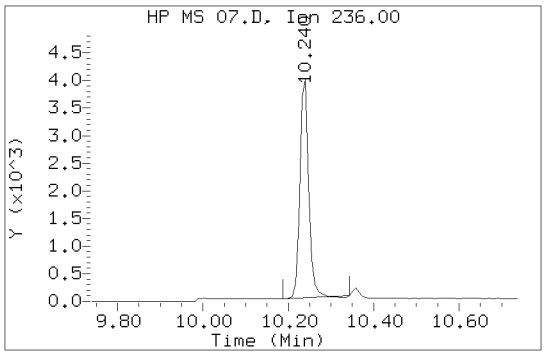
AFTER
MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



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



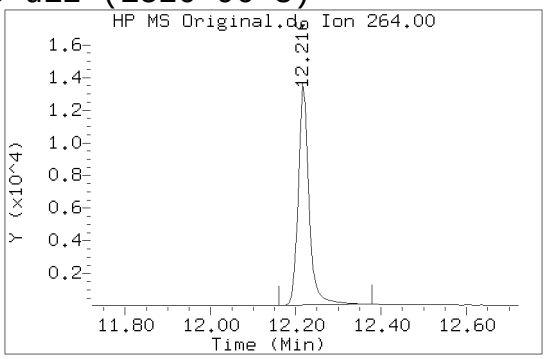
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Perylene-d12 (1520-96-3)

Reason Code:

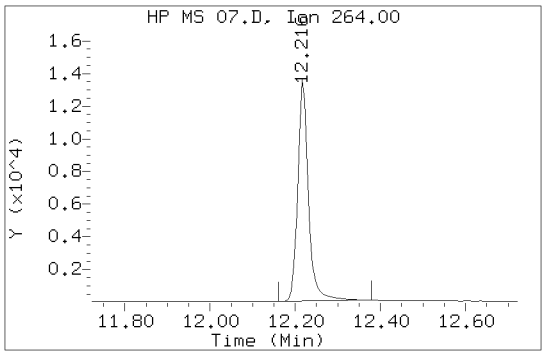
BEFORE

MASS
264
AREA
23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



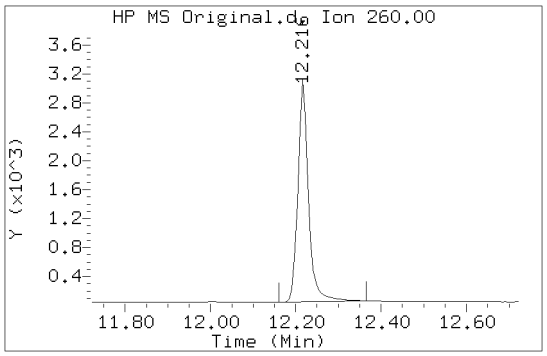
AFTER

MASS
264
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23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



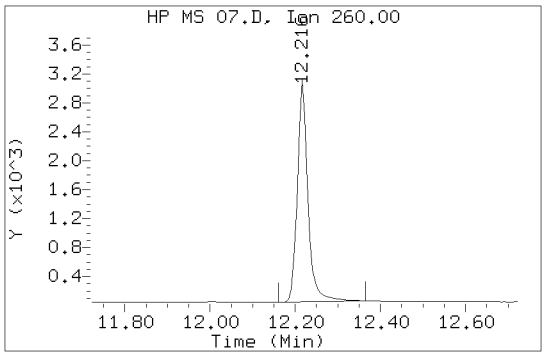
BEFORE

MASS
260
AREA
5333
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



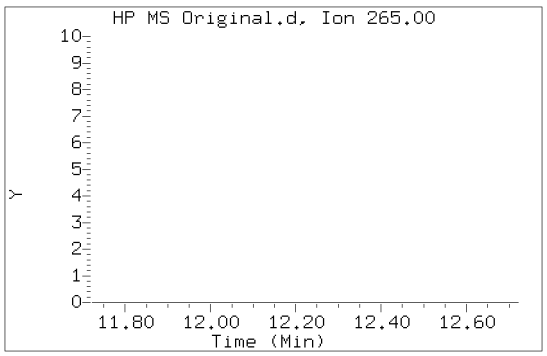
AFTER

MASS
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AREA
5333
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



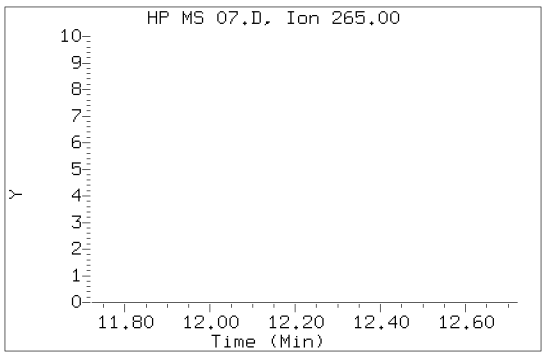
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
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pham



AFTER

MASS
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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

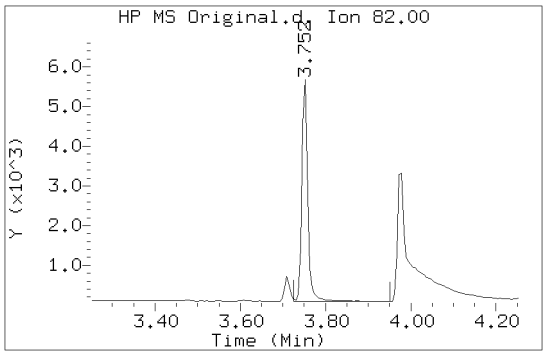


Nitrobenzene-d5 (4165-60-0)

Reason Code:

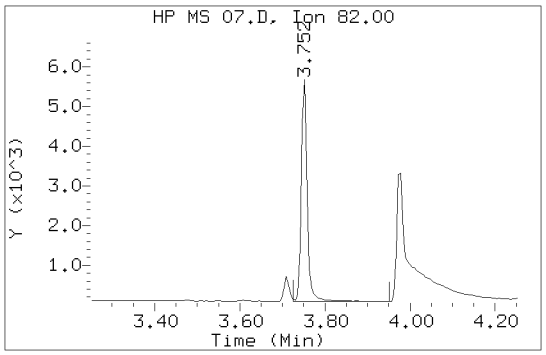
BEFORE

MASS
82
AREA
5270
HEIGHT
5585
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5270
HEIGHT
5585
18-Dec-2023
10:16
linh
pham



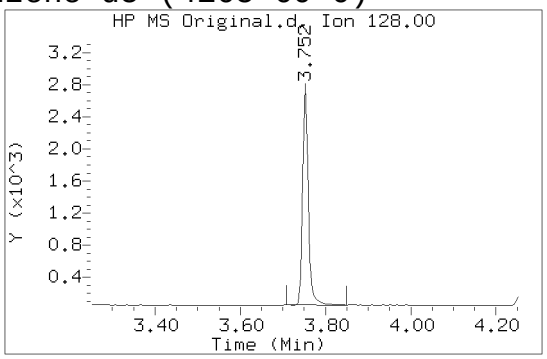
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

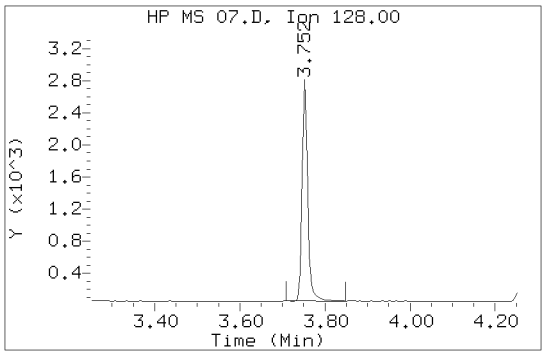
BEFORE

MASS
128
AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



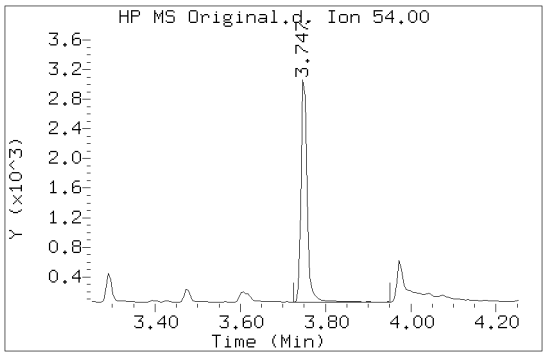
AFTER

MASS
128
AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



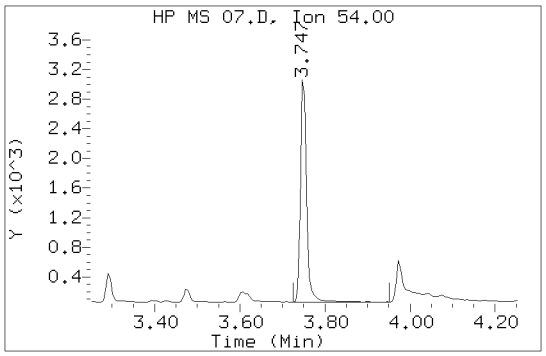
BEFORE

MASS
54
AREA
2977
HEIGHT
3000
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2977
HEIGHT
3000
18-Dec-2023
10:16
linh
pham

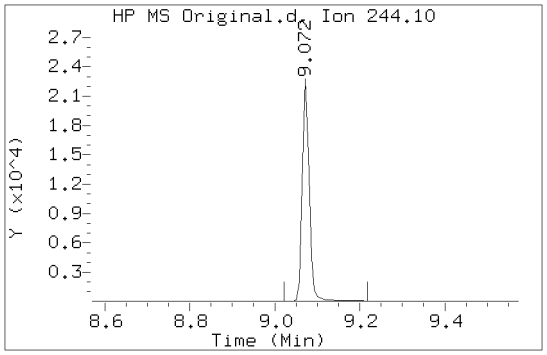


4-Terphenyl-d14 (1718-51-0)

Reason Code:

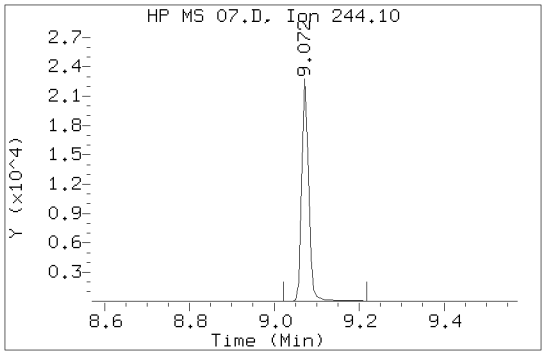
BEFORE

MASS
244.1
AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



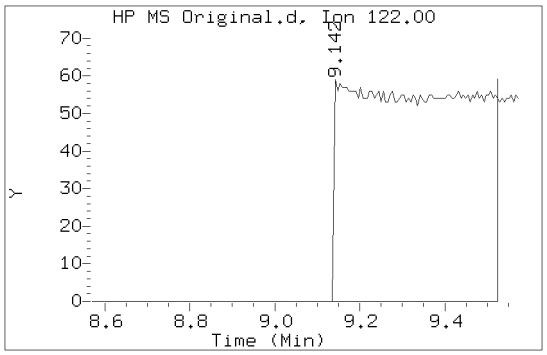
AFTER

MASS
244.1
AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



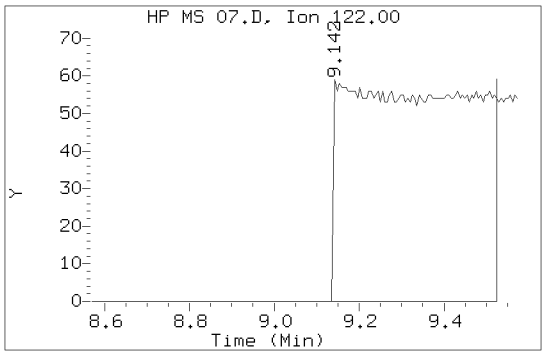
BEFORE

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



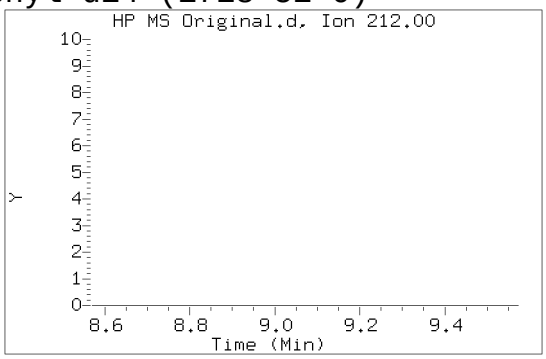
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

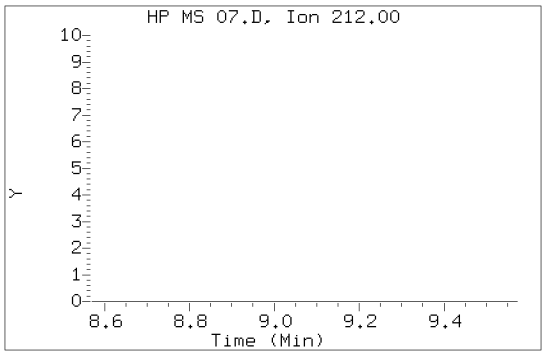
BEFORE

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

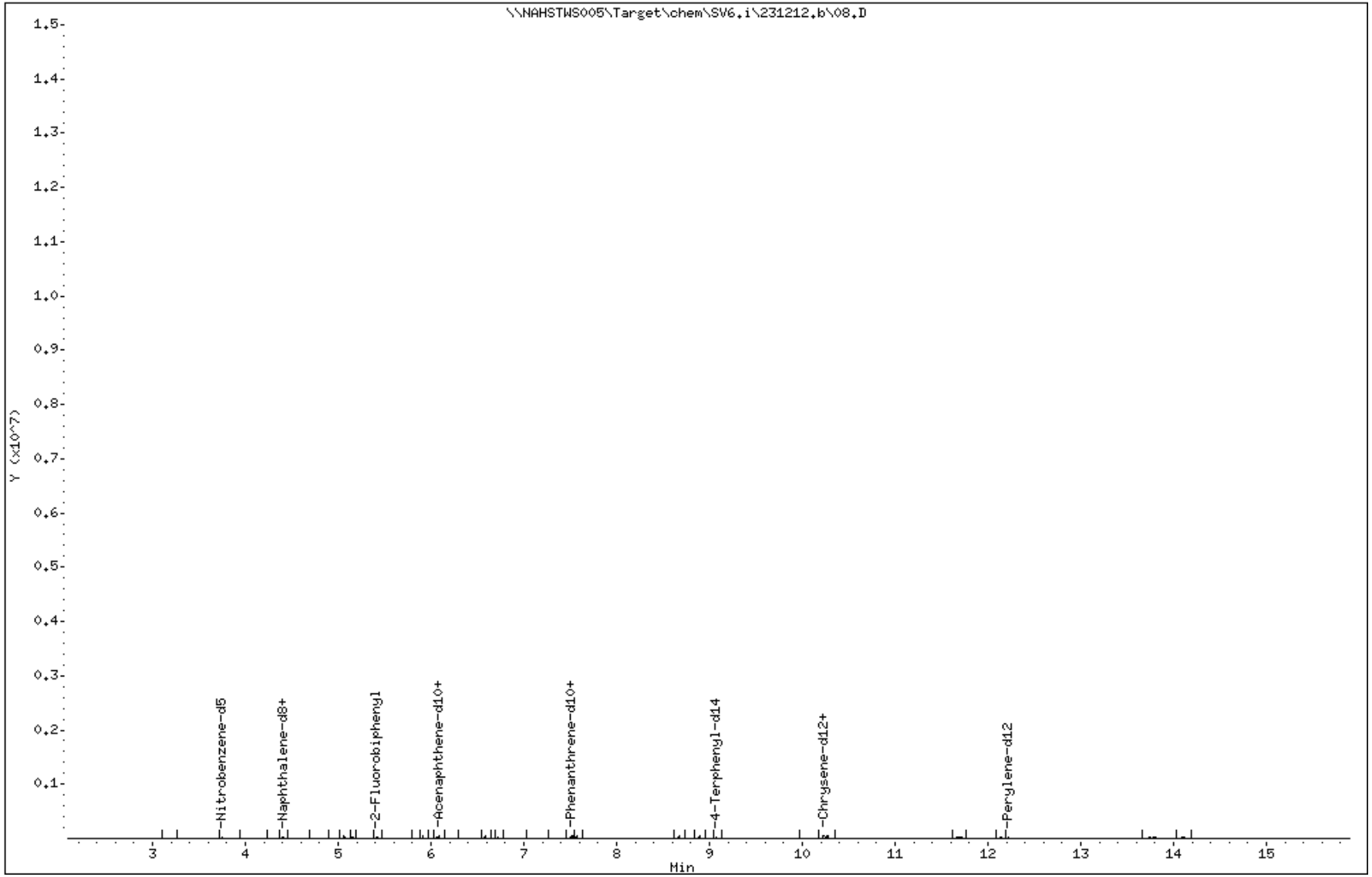
Sample Info: PAHSIM-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



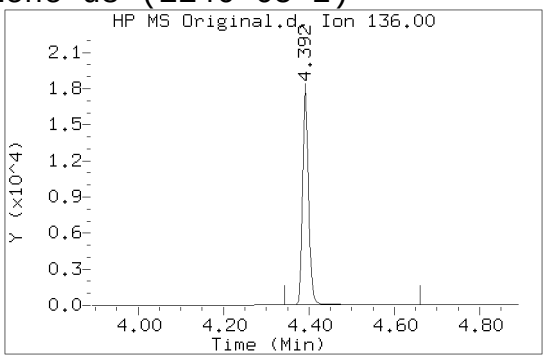
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

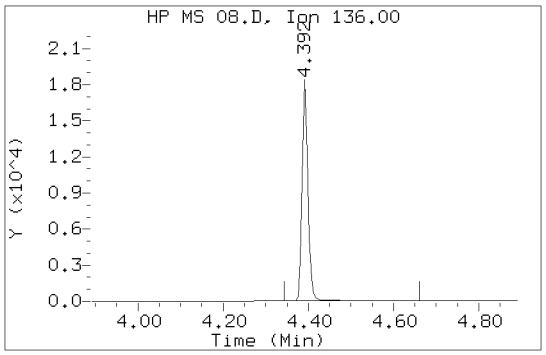
BEFORE

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



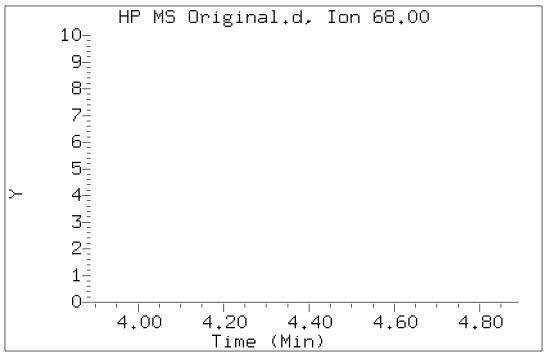
AFTER

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



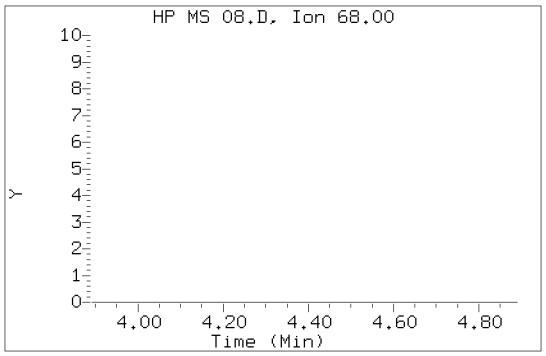
BEFORE

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

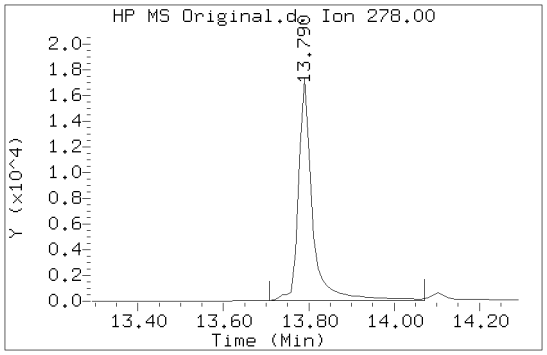


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

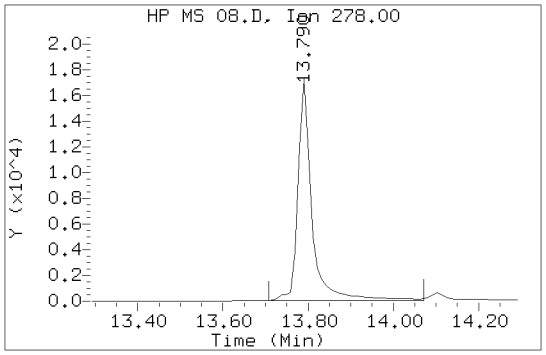
BEFORE

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



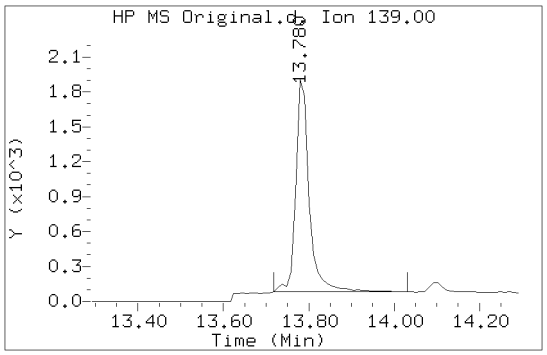
AFTER

MASS
278
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39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



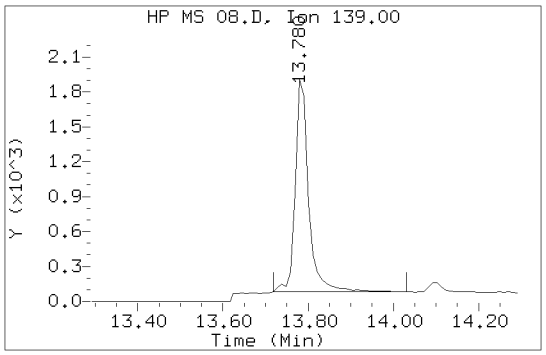
BEFORE

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



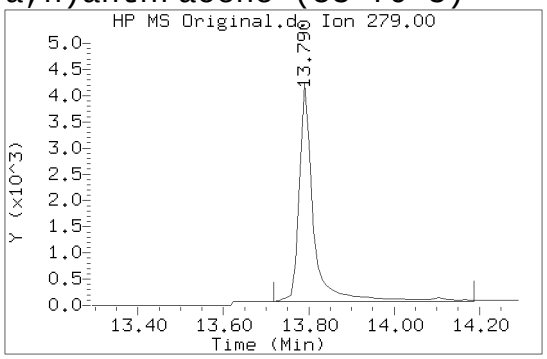
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

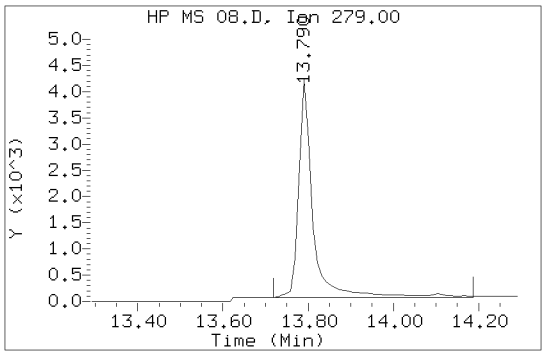
BEFORE

MASS
279
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

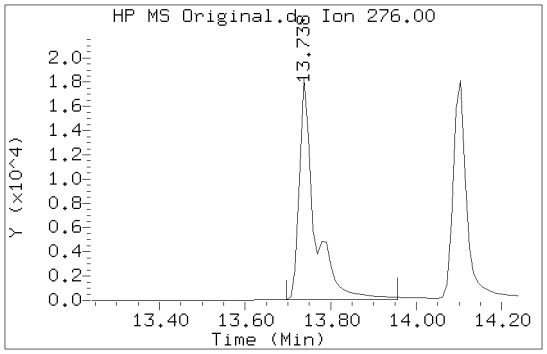


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

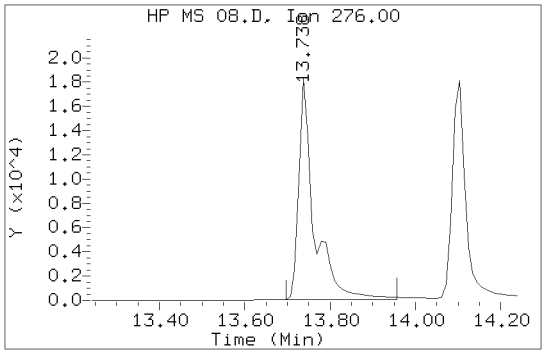
BEFORE

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



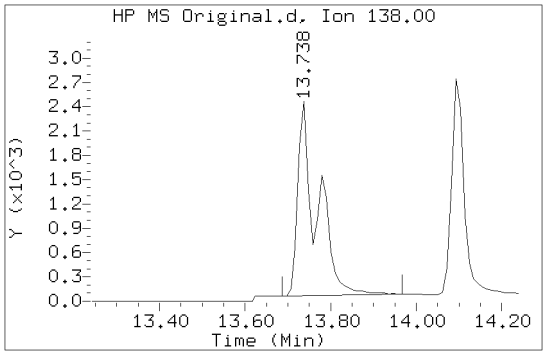
AFTER

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



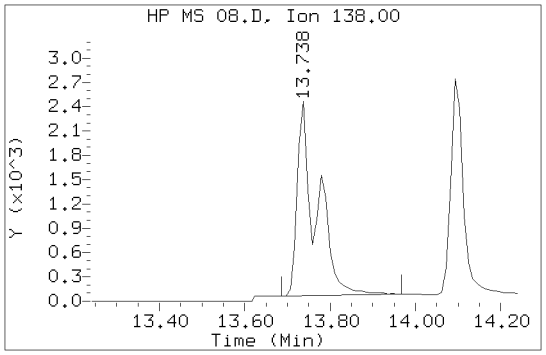
BEFORE

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



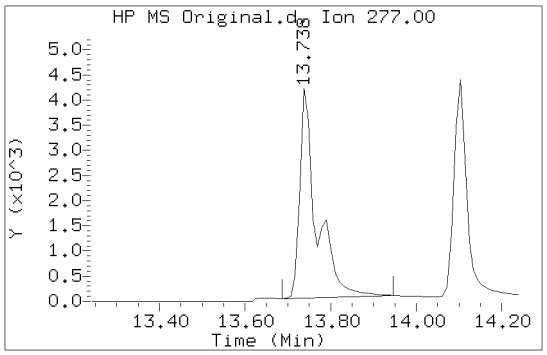
AFTER

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



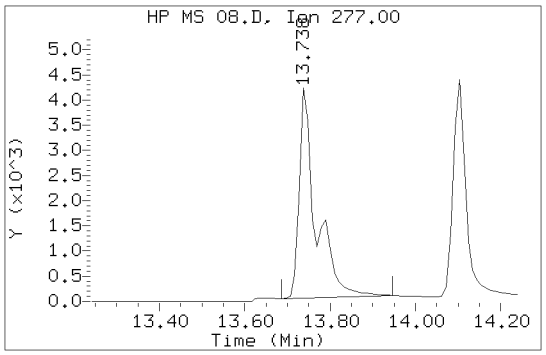
BEFORE

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



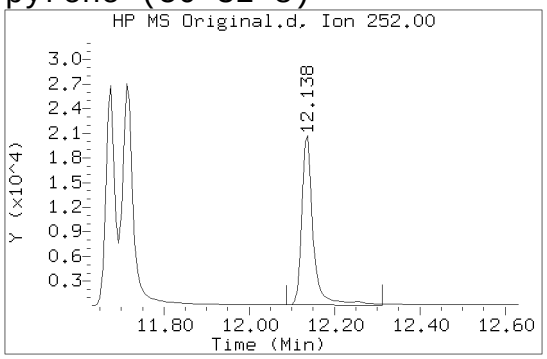
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(a)pyrene (50-32-8)

Reason Code:

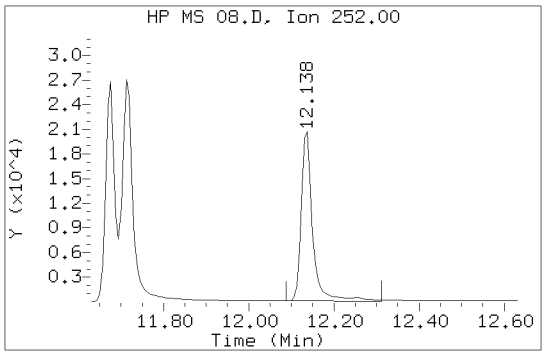
BEFORE

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



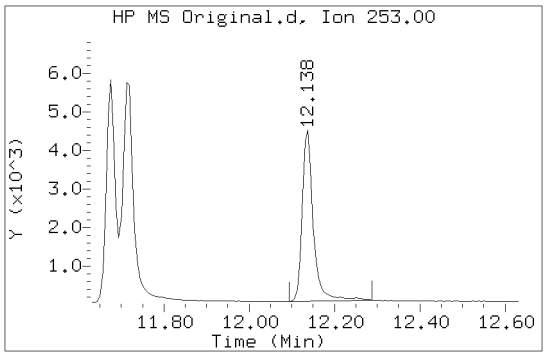
AFTER

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



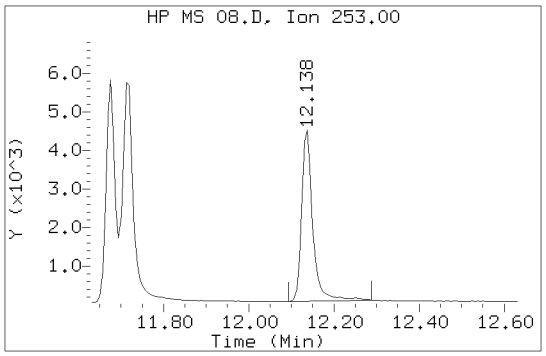
BEFORE

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



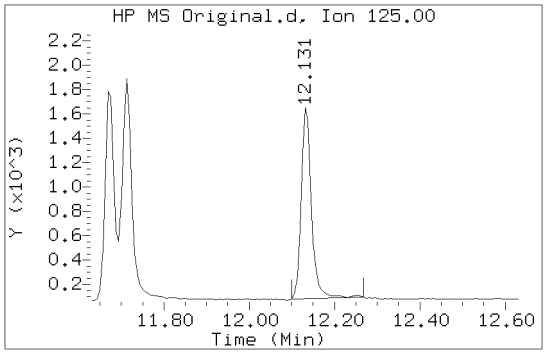
AFTER

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



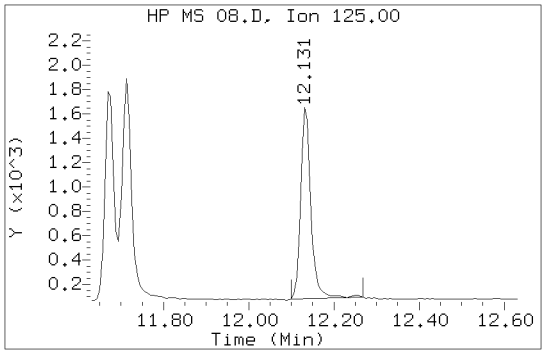
BEFORE

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

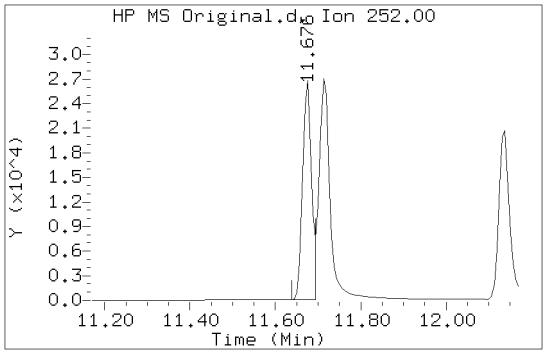


Benzo(b)fluoranthene (205-99-2)

Reason Code:

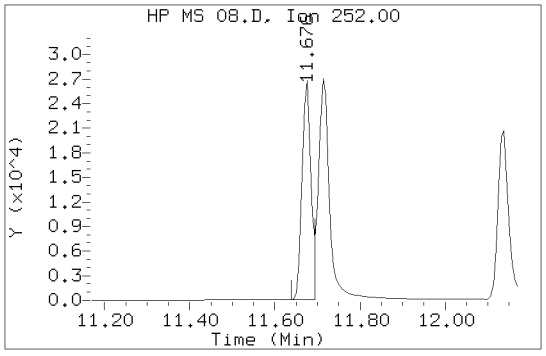
BEFORE

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



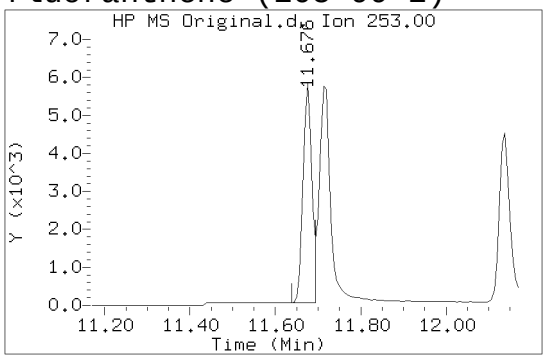
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(b)fluoranthene (205-99-2)

Reason Code:

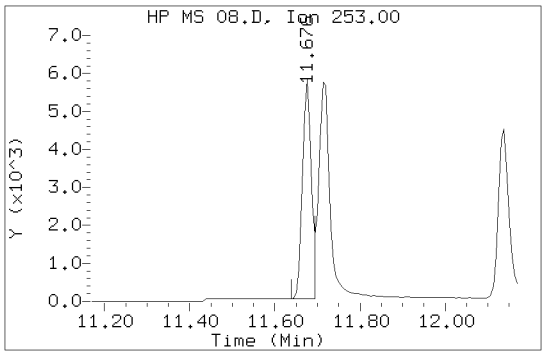
BEFORE

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



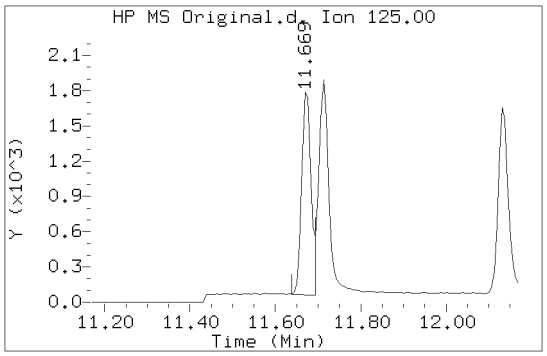
AFTER

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



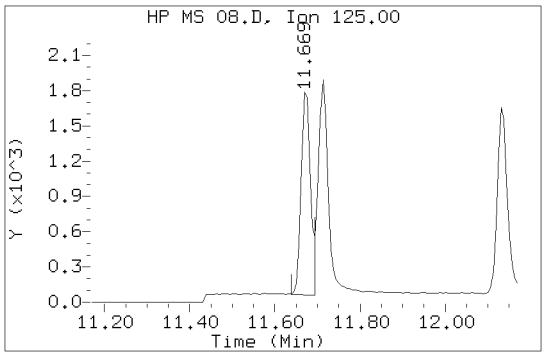
BEFORE

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

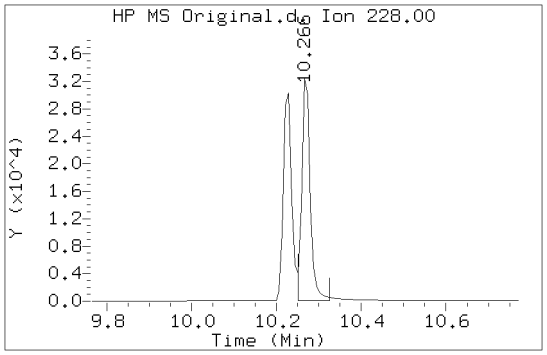


Chrysene (218-01-9)

Reason Code:

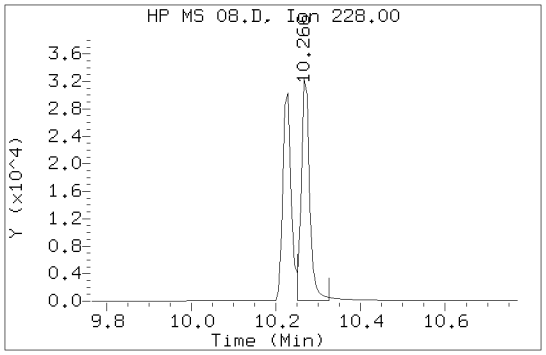
BEFORE

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



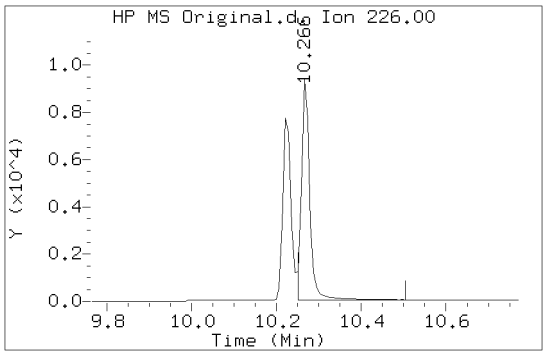
AFTER

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



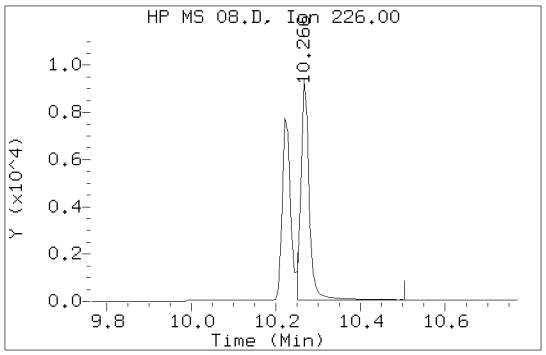
BEFORE

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



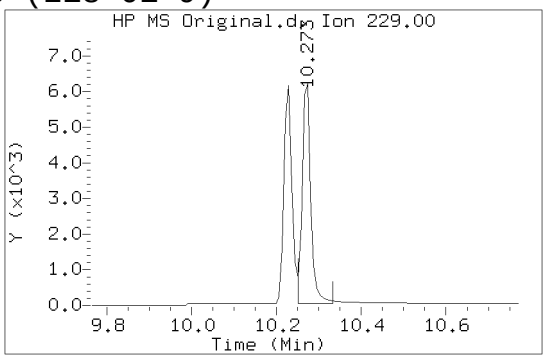
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene (218-01-9)

Reason Code:

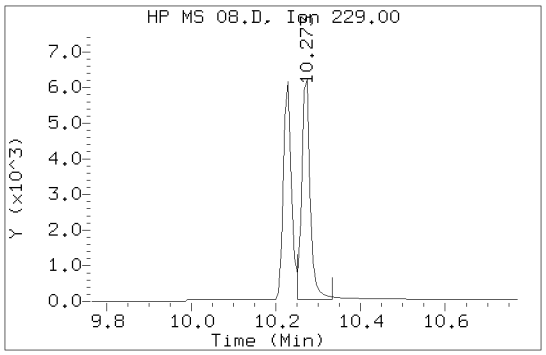
BEFORE

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

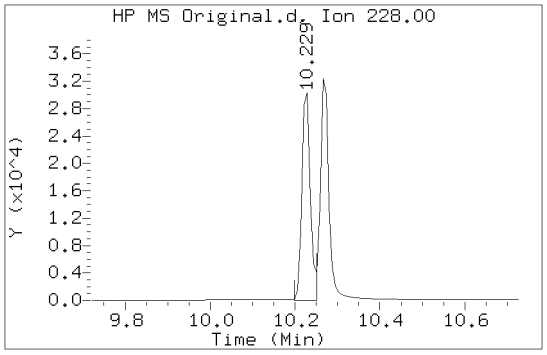


Benzo(a)Anthracene (56-55-3)

Reason Code:

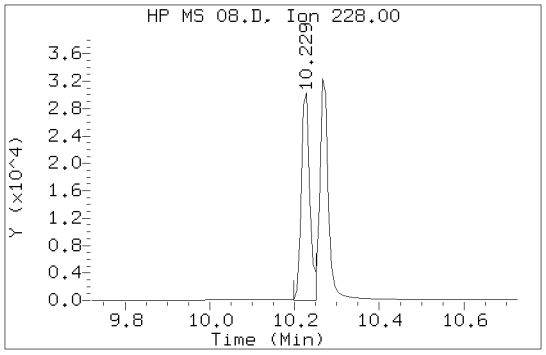
BEFORE

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



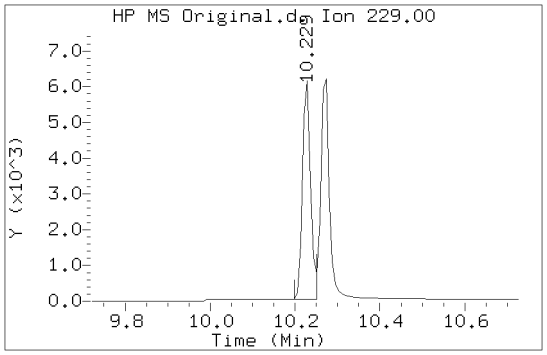
AFTER

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



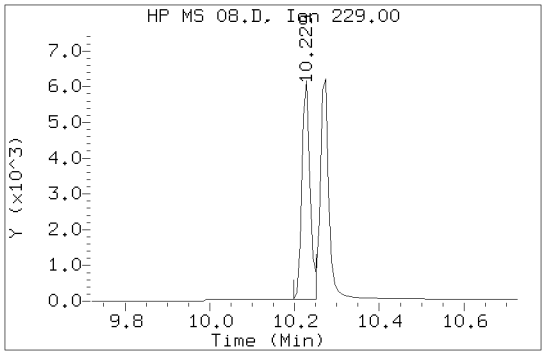
BEFORE

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



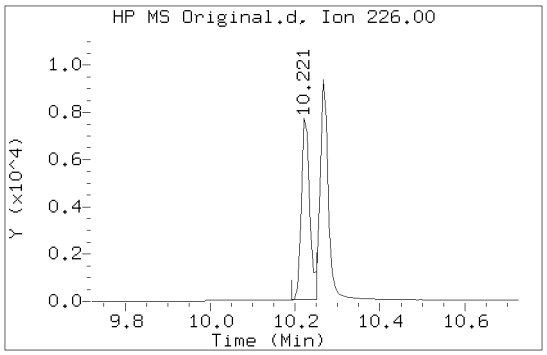
AFTER

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



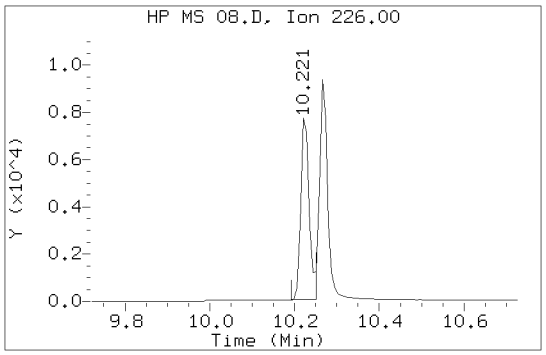
BEFORE

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

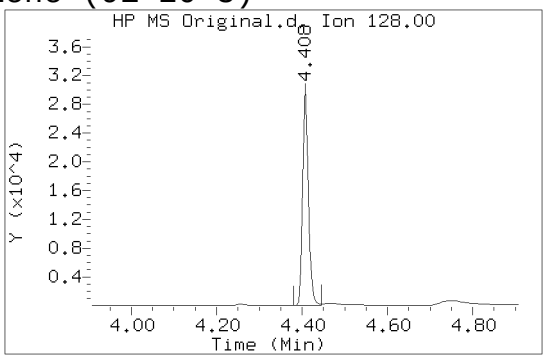


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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

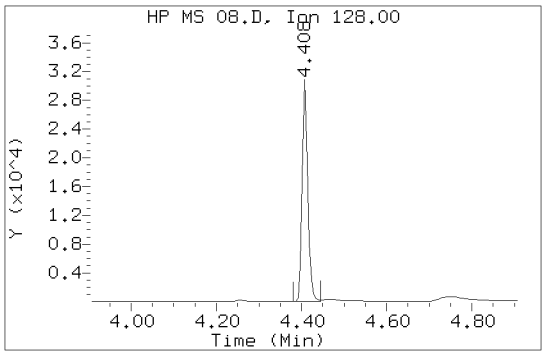
Naphthalene (91-20-3)

Reason Code:

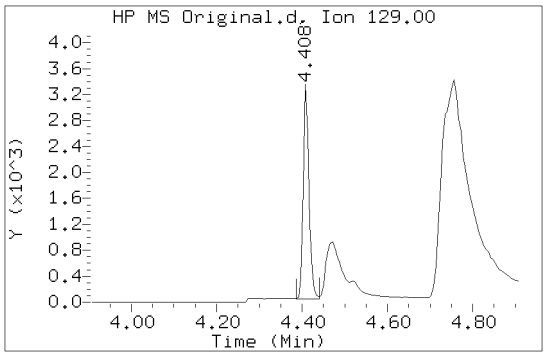
BEFORE
MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



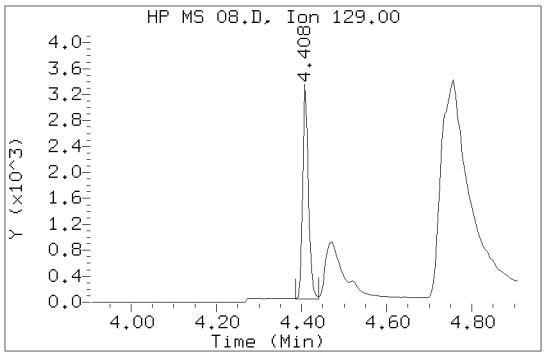
AFTER
MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham



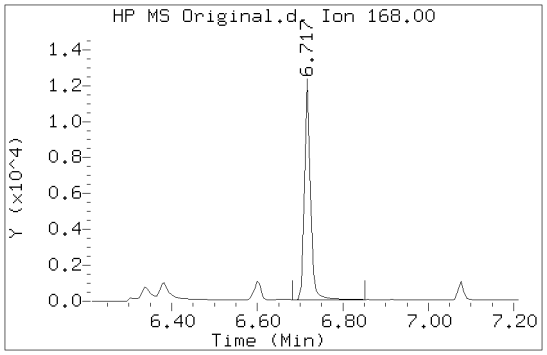
AFTER
MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham



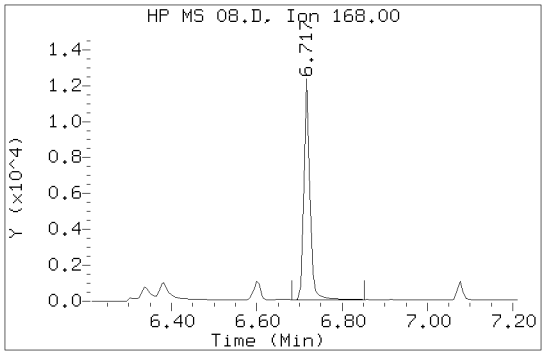
Dibenzofuran (132-64-9)

Reason Code:

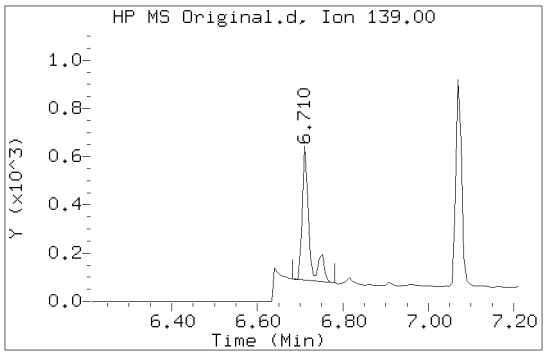
BEFORE
MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



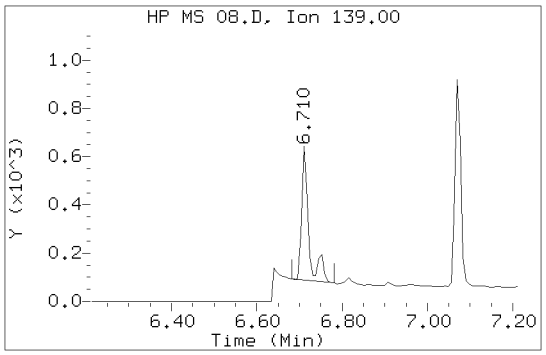
AFTER
MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



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



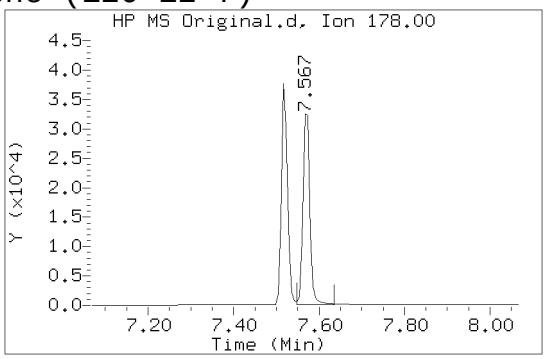
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Anthracene (120-12-7)

Reason Code:

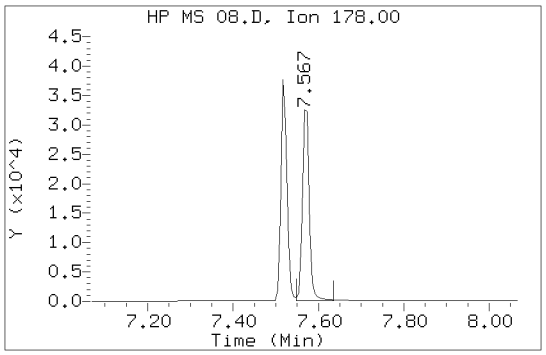
BEFORE

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



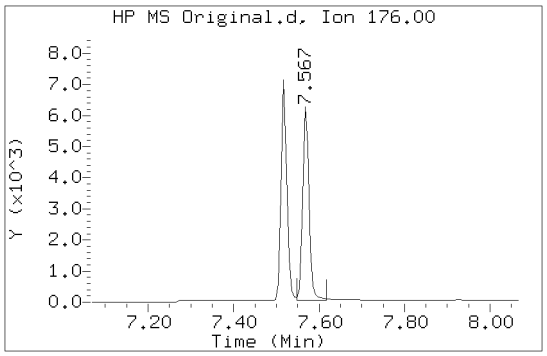
AFTER

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



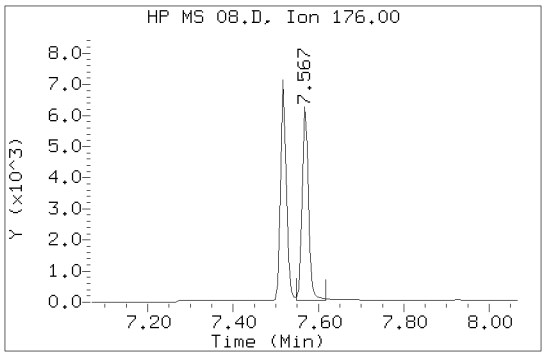
BEFORE

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



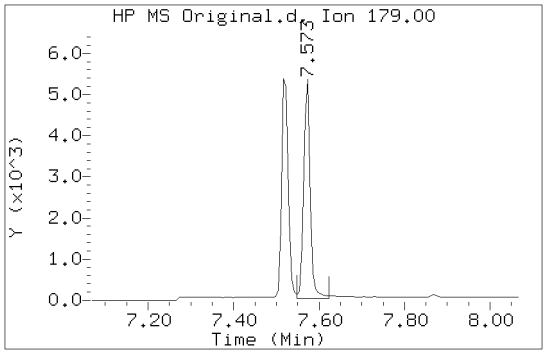
AFTER

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



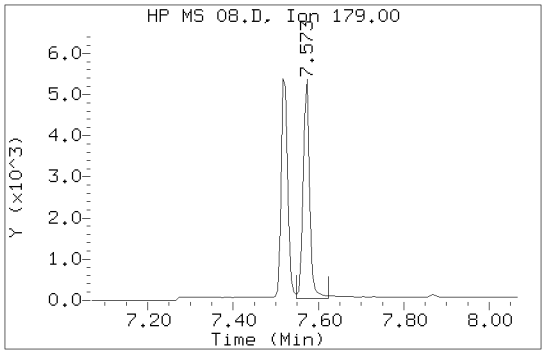
BEFORE

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

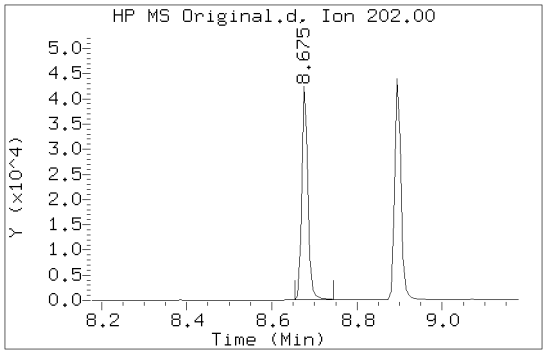


Fluoranthene (206-44-0)

Reason Code:

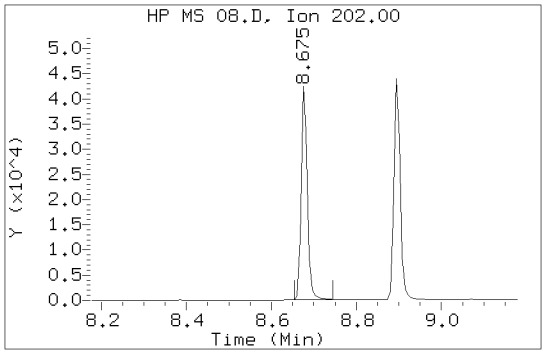
BEFORE

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



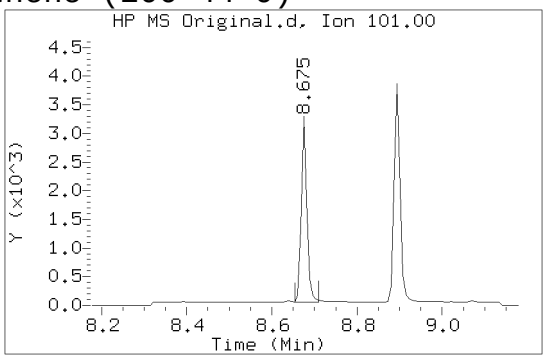
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Fluoranthene (206-44-0)

Reason Code:

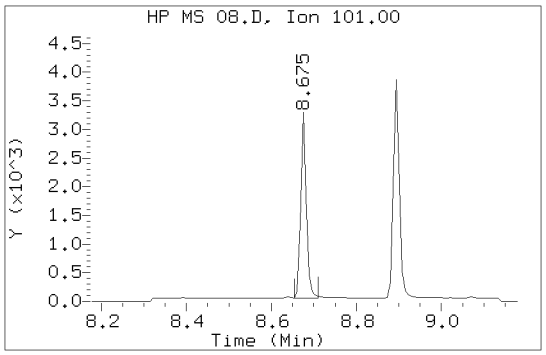
BEFORE

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



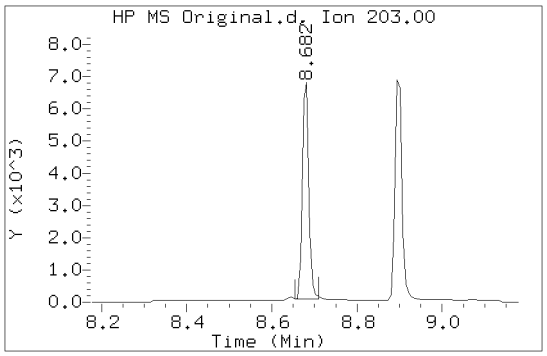
AFTER

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



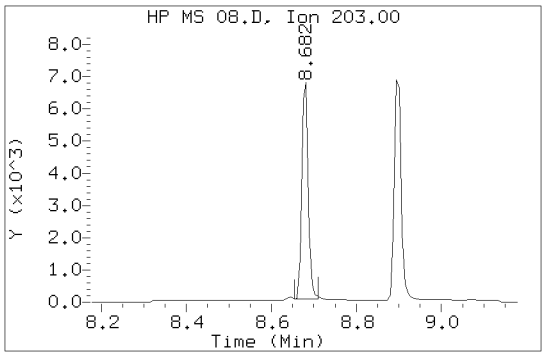
BEFORE

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

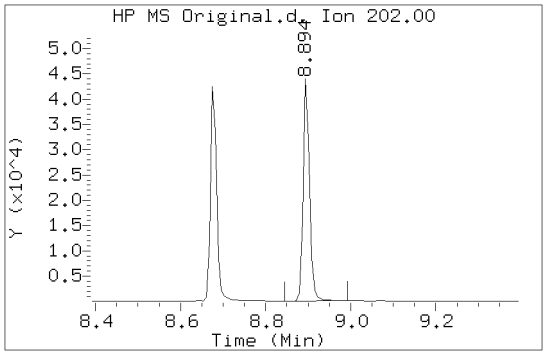


Pyrene (129-00-0)

Reason Code:

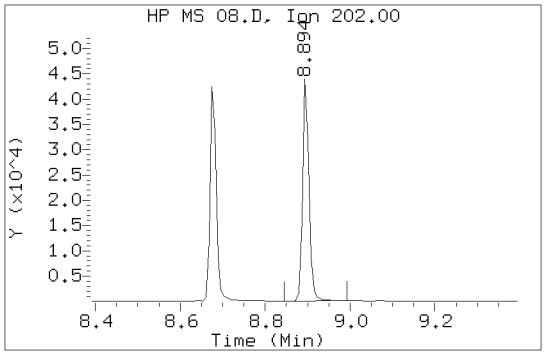
BEFORE

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



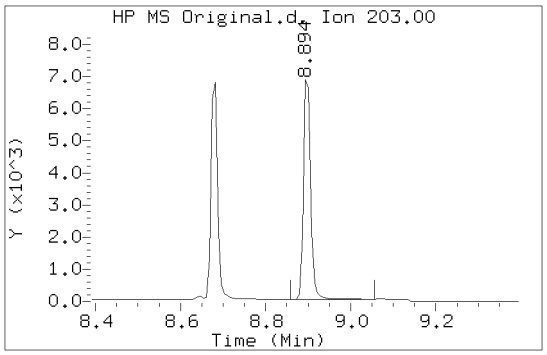
AFTER

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



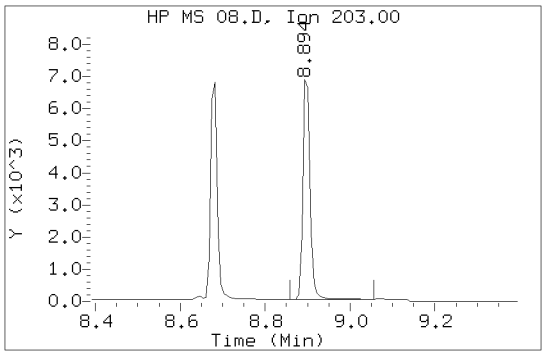
BEFORE

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



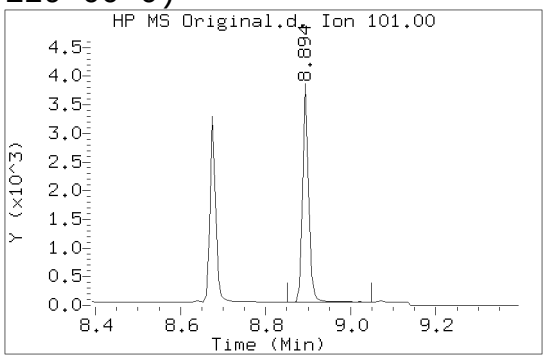
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Pyrene (129-00-0)

Reason Code:

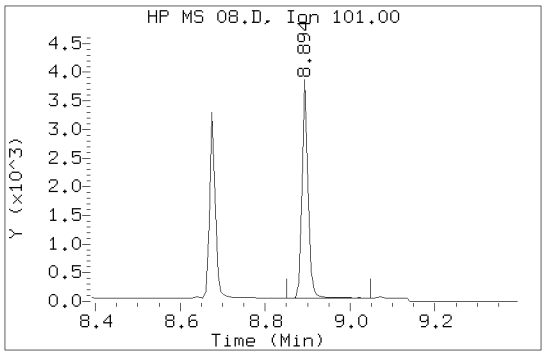
BEFORE

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

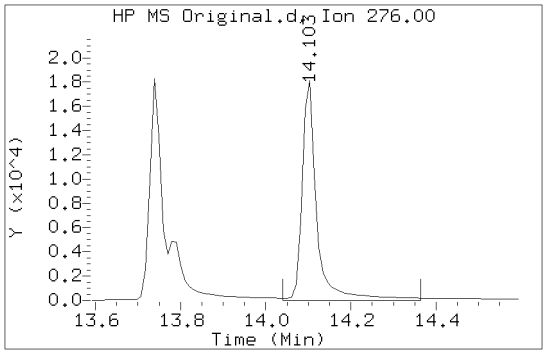


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

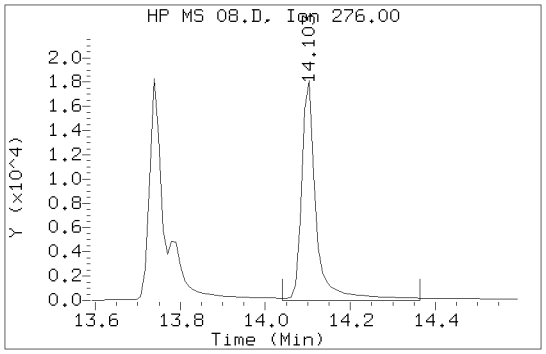
BEFORE

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



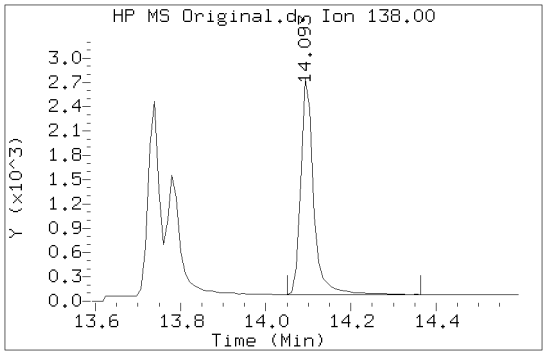
AFTER

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



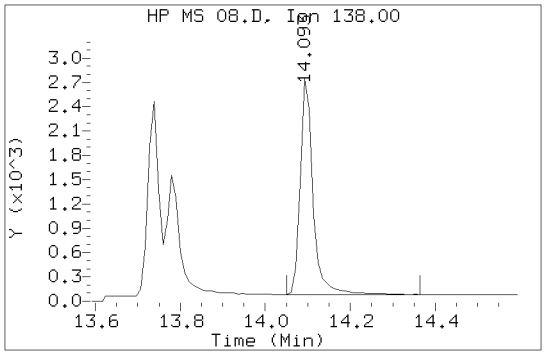
BEFORE

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



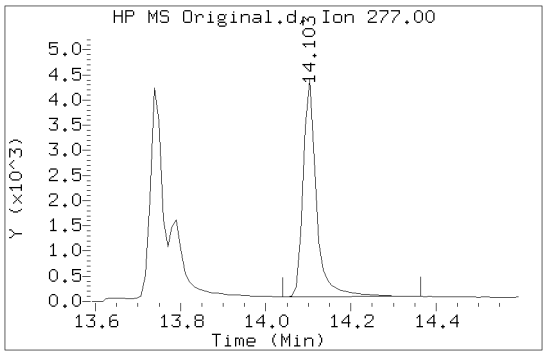
AFTER

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



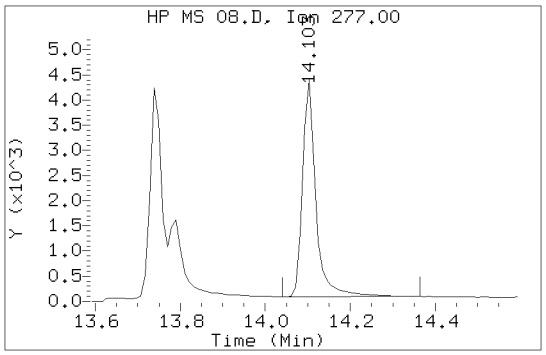
BEFORE

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



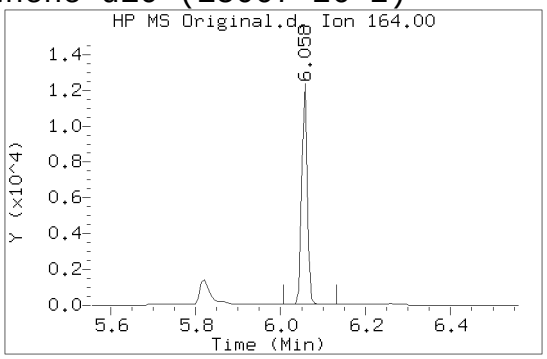
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Acenaphthene-d10 (15067-26-2)

Reason Code:

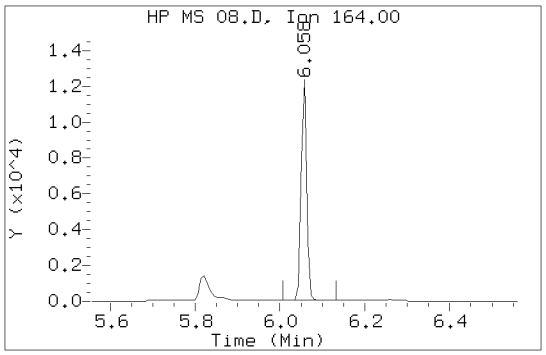
BEFORE

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



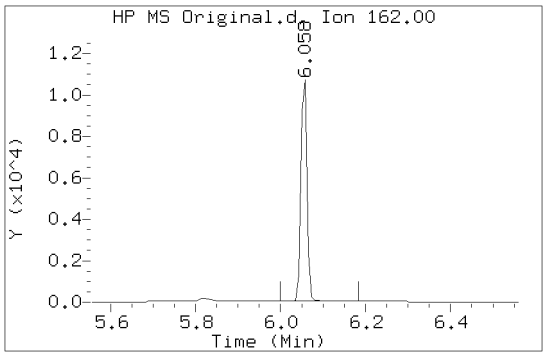
AFTER

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



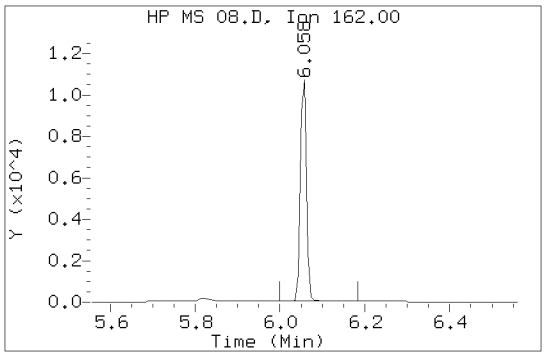
BEFORE

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



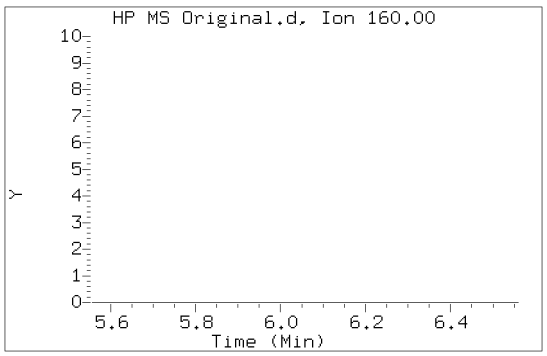
AFTER

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



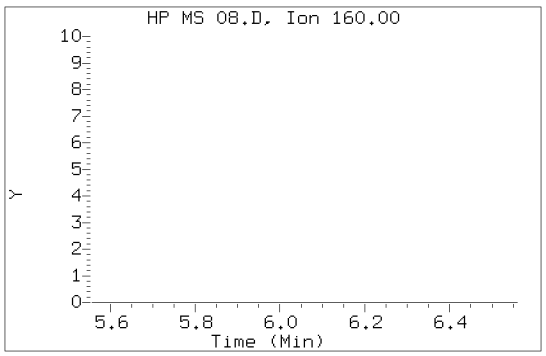
BEFORE

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

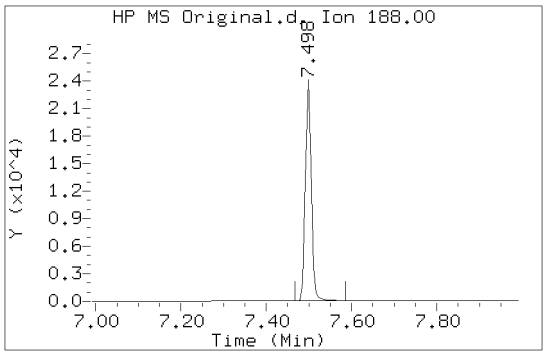


Phenanthrene-d10 (1517-22-2)

Reason Code:

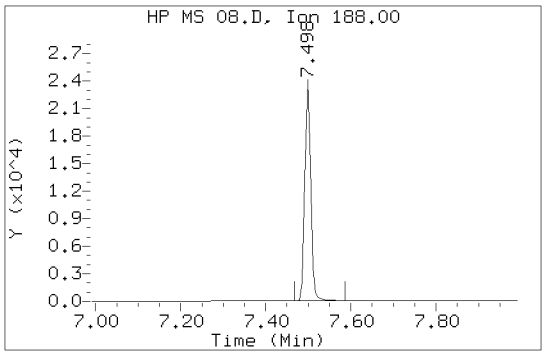
BEFORE

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



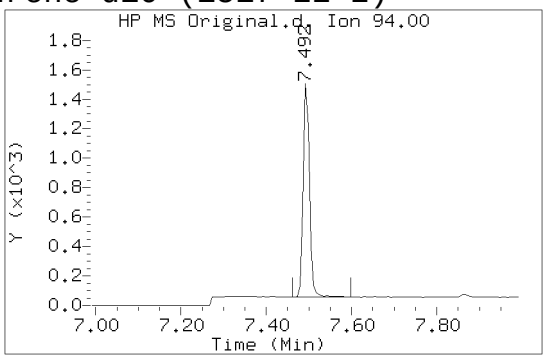
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

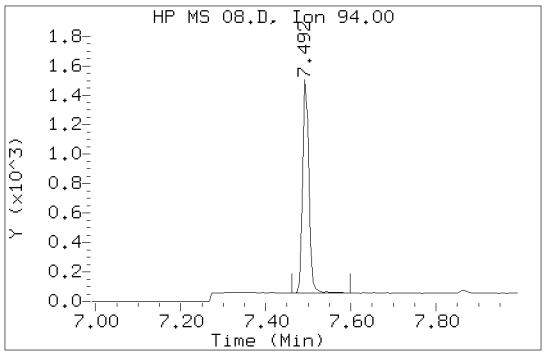
BEFORE

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



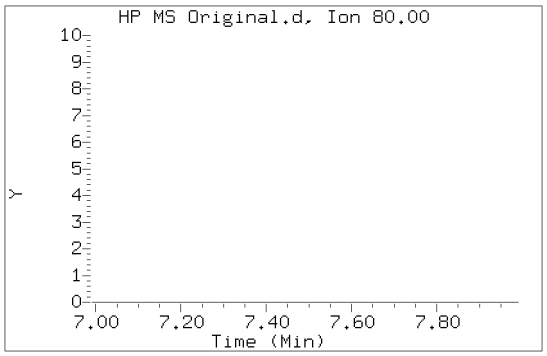
AFTER

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



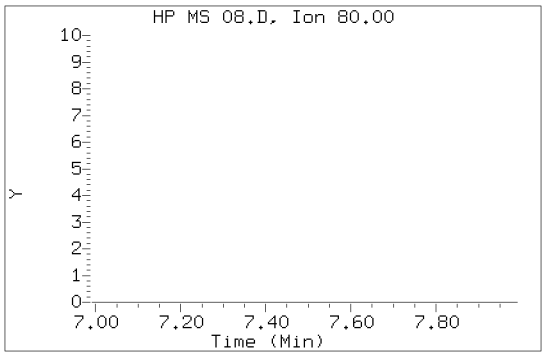
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

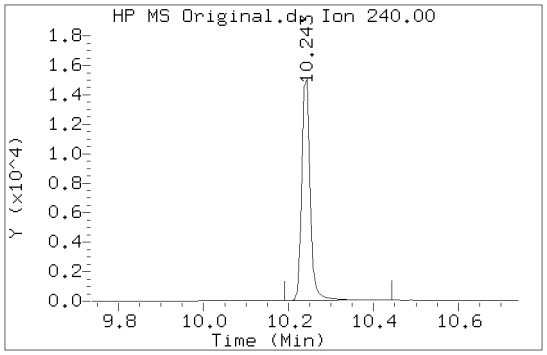


Chrysene-d12 (1719-03-5)

Reason Code:

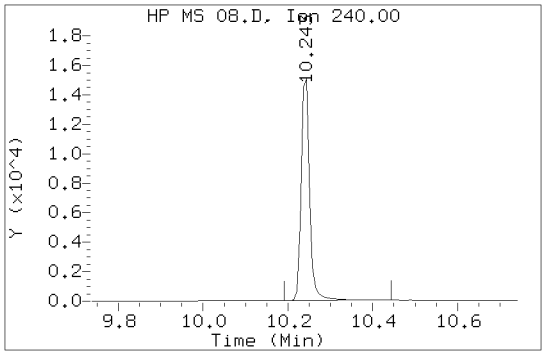
BEFORE

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



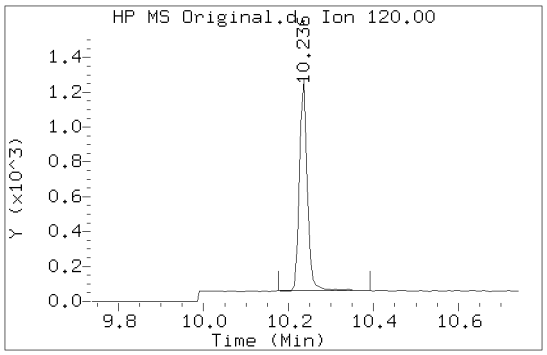
AFTER

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



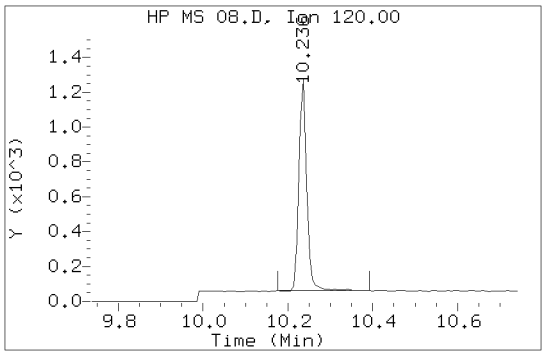
BEFORE

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



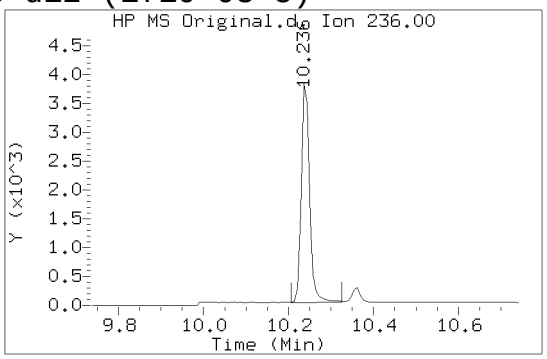
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

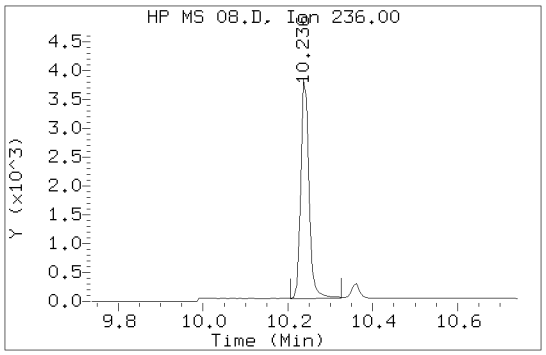
BEFORE

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

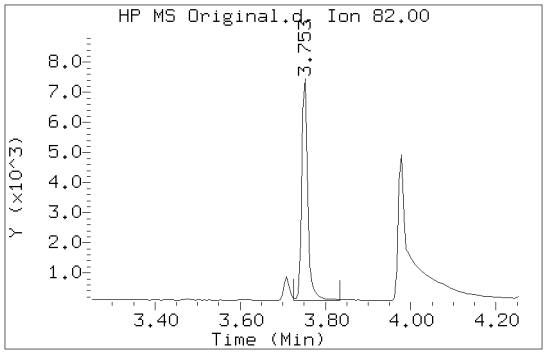


Nitrobenzene-d5 (4165-60-0)

Reason Code:

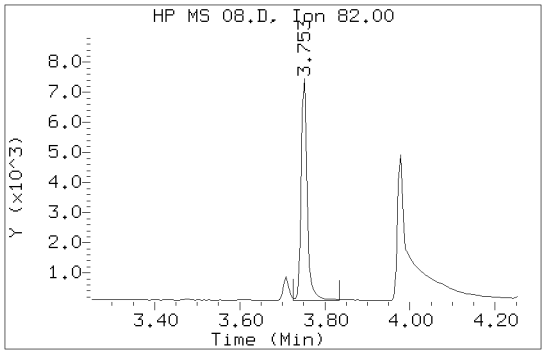
BEFORE

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



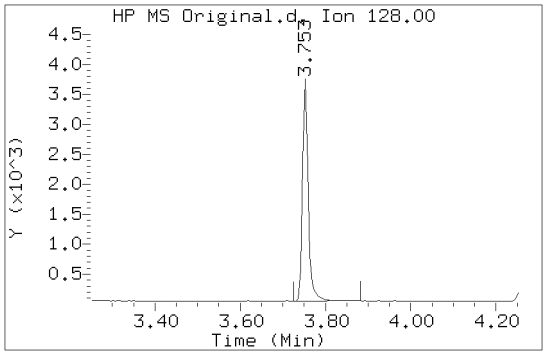
AFTER

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



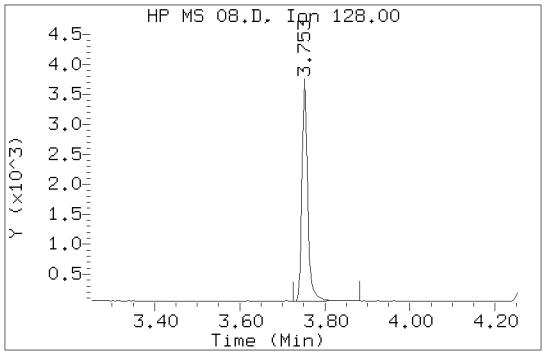
BEFORE

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



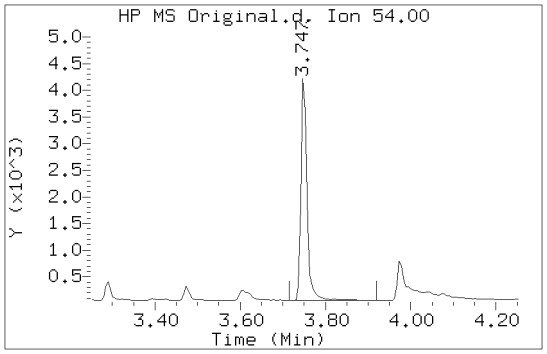
AFTER

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



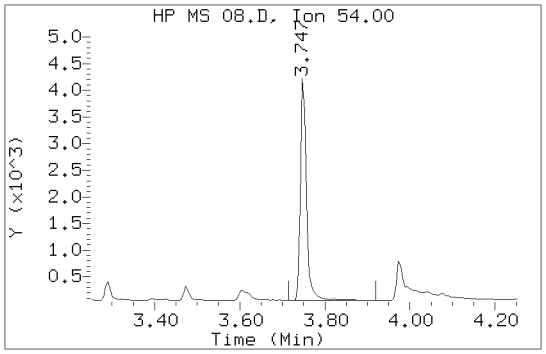
BEFORE

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



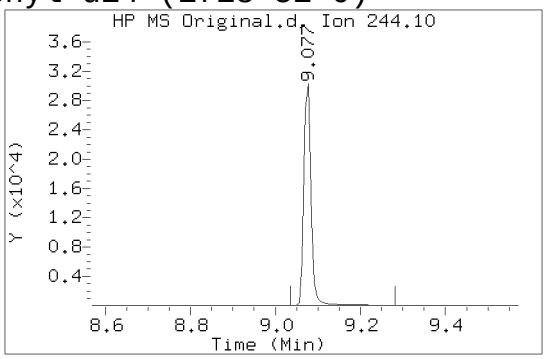
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

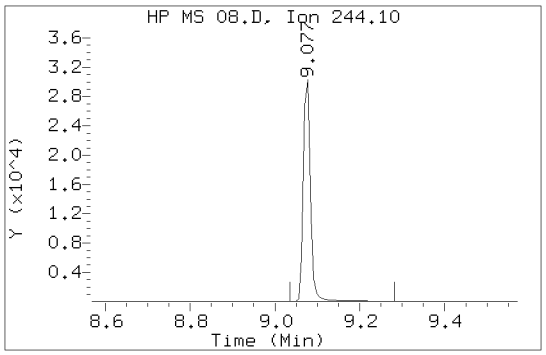
BEFORE

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



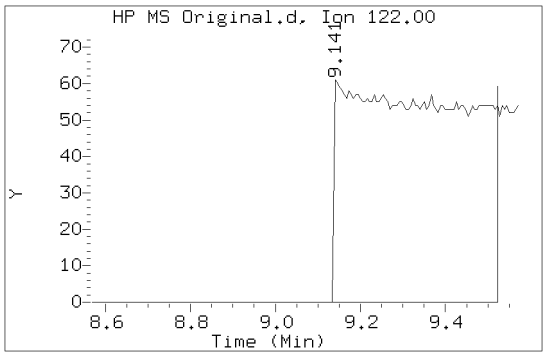
AFTER

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



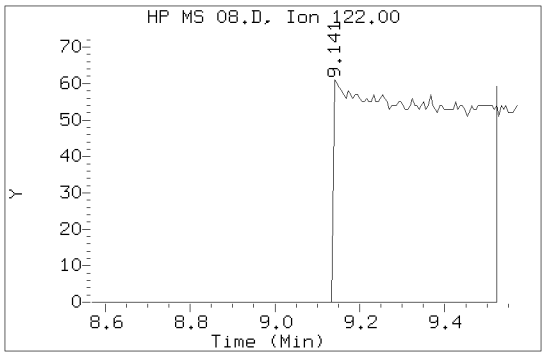
BEFORE

MASS
122
AREA
1276
HEIGHT
61
18-Dec-2023
10:16
linh
pham



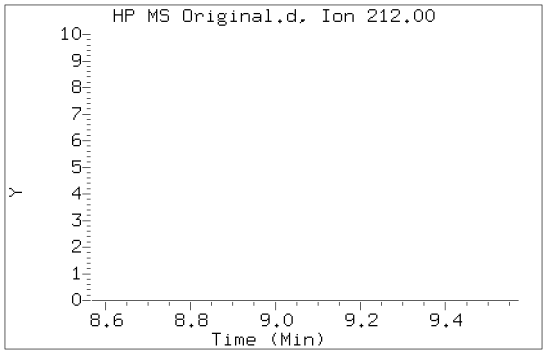
AFTER

MASS
122
AREA
1276
HEIGHT
61
18-Dec-2023
10:16
linh
pham



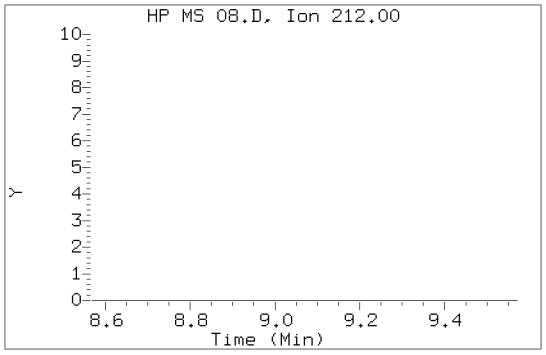
BEFORE

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\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

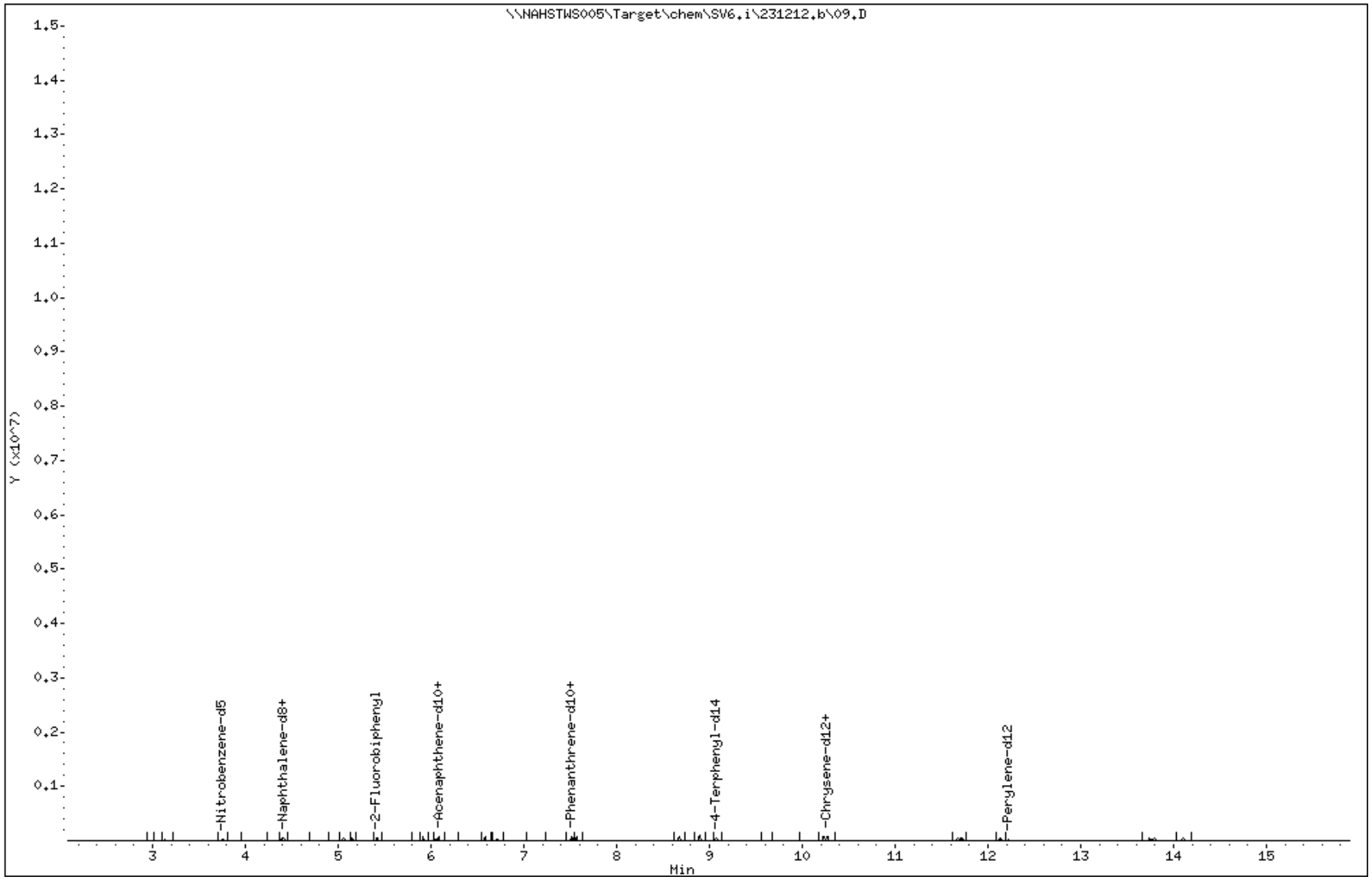
Sample Info: PAHSIM-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



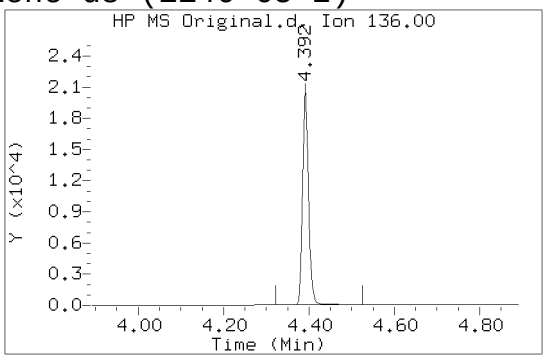
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

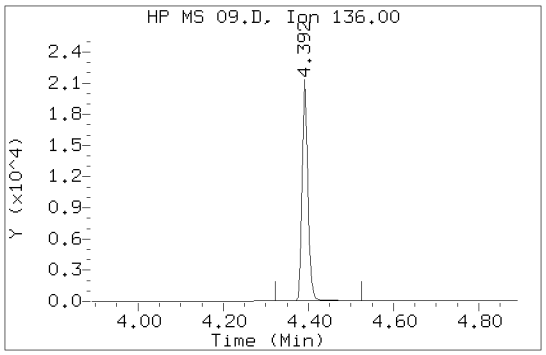
BEFORE

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



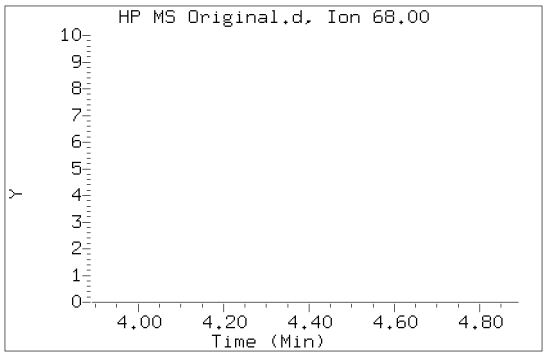
AFTER

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



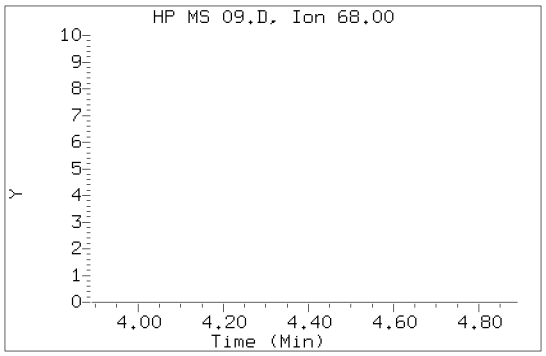
BEFORE

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

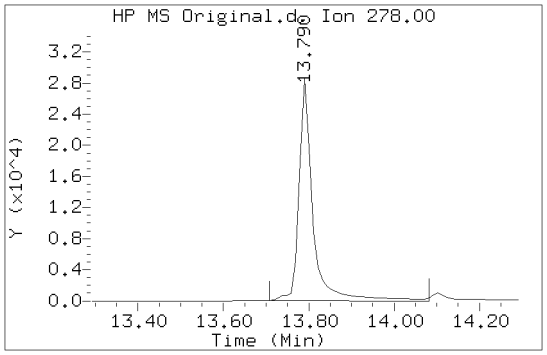


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

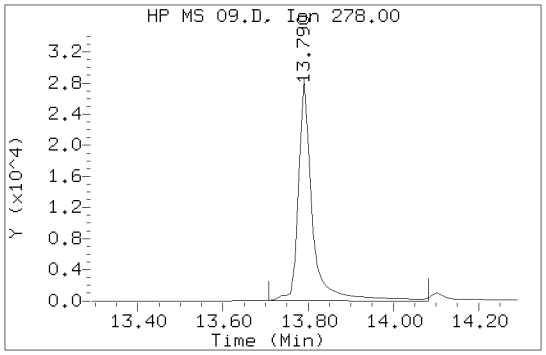
BEFORE

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



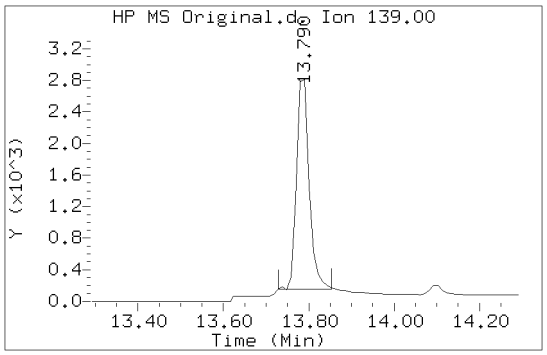
AFTER

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



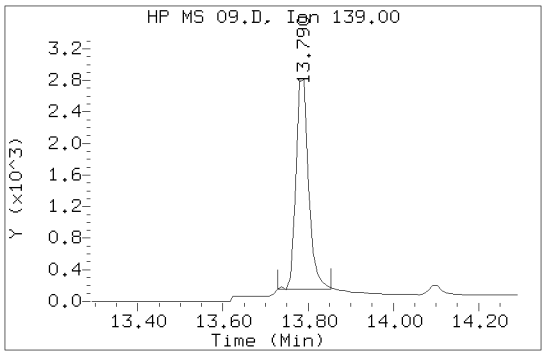
BEFORE

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



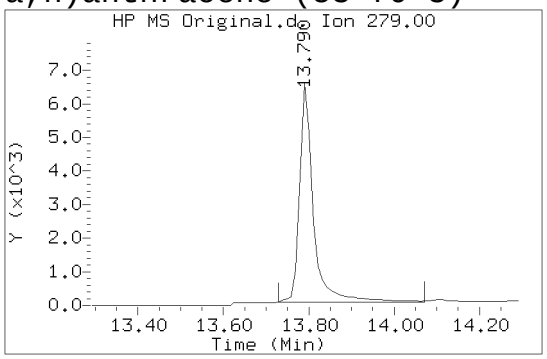
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

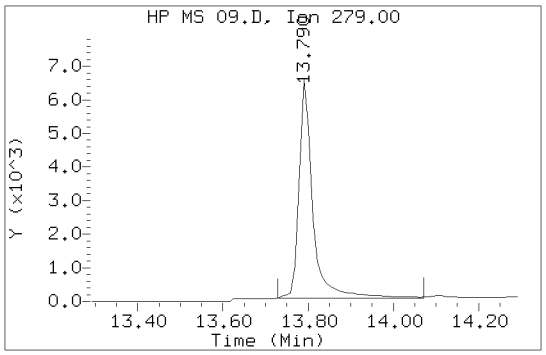
BEFORE

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

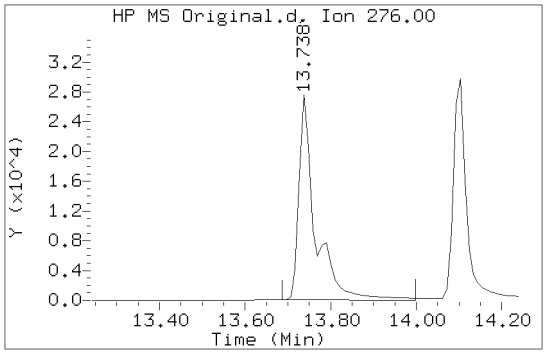


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

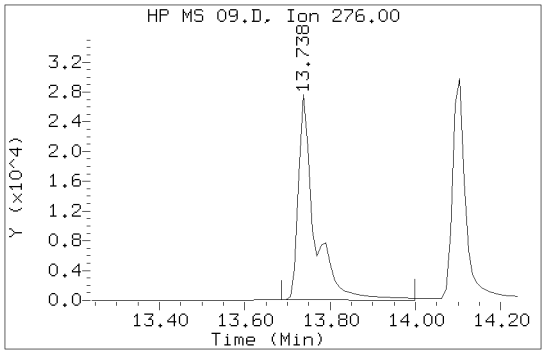
BEFORE

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



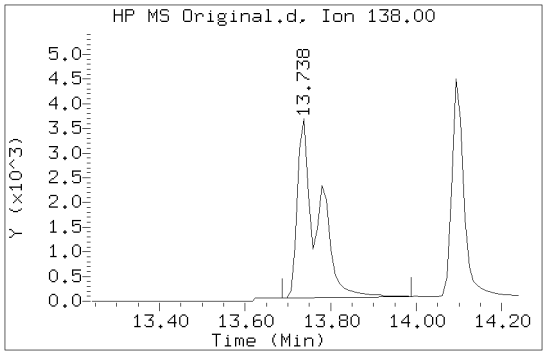
AFTER

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



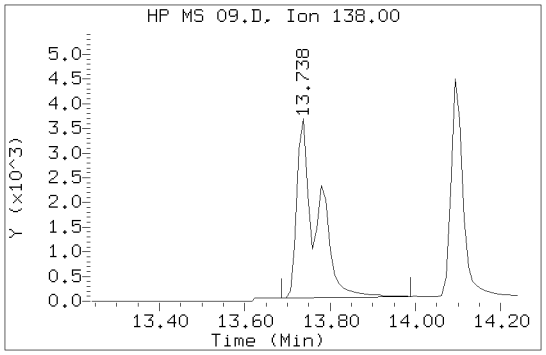
BEFORE

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



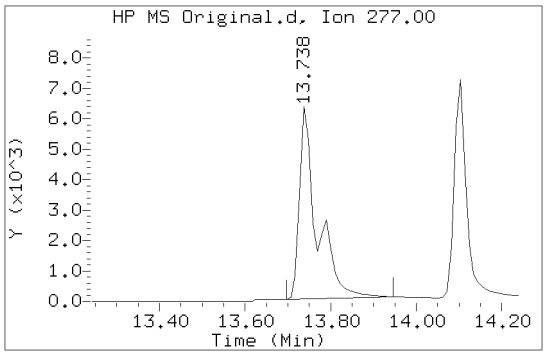
AFTER

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



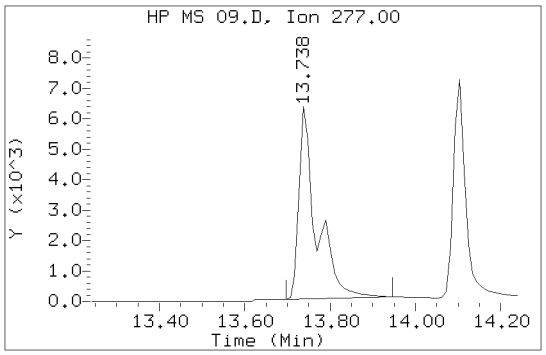
BEFORE

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

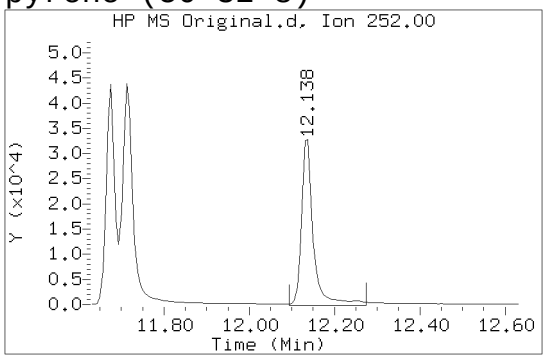


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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

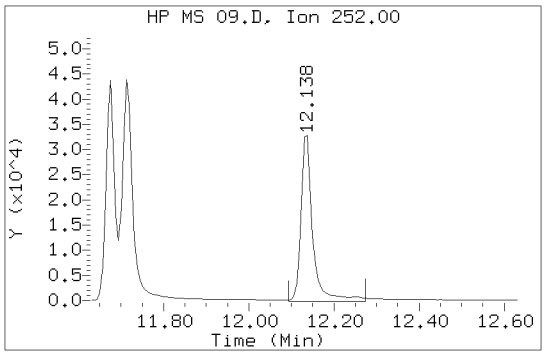
Benzo(a)pyrene (50-32-8)

Reason Code:

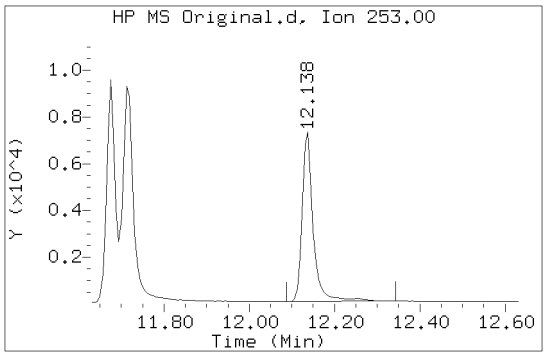
BEFORE
MASS
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AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



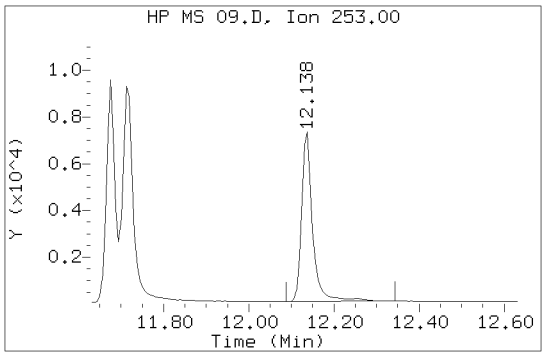
AFTER
MASS
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AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



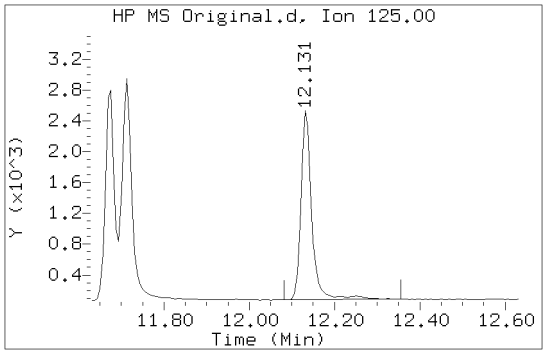
BEFORE
MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



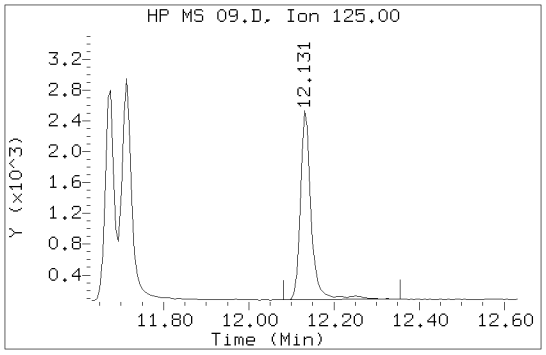
AFTER
MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham



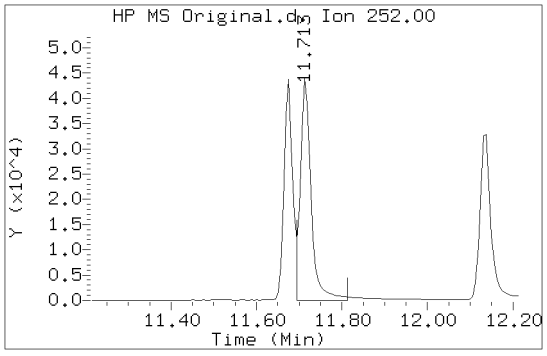
AFTER
MASS
125
AREA
4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham



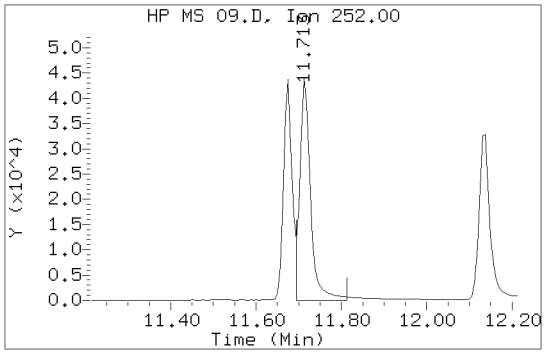
Benzo(k)fluoranthene (207-08-9)

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



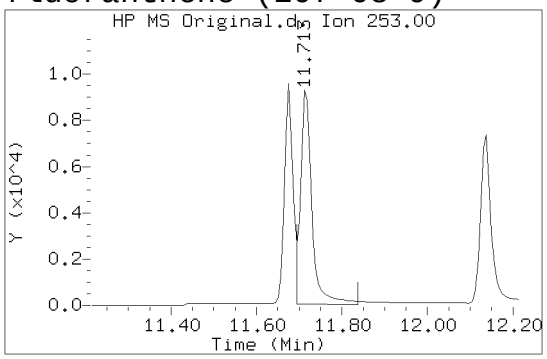
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(k)fluoranthene (207-08-9)

Reason Code:

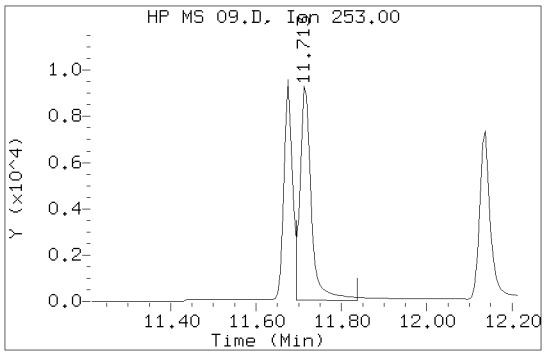
BEFORE

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



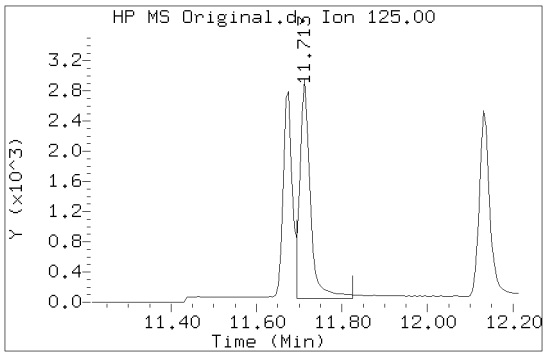
AFTER

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



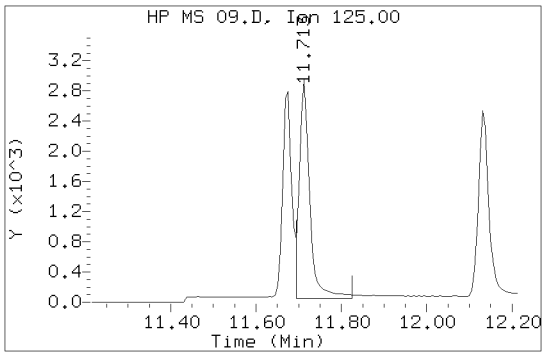
BEFORE

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

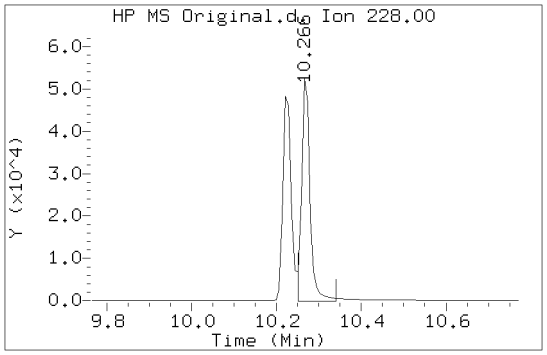


Chrysene (218-01-9)

Reason Code:

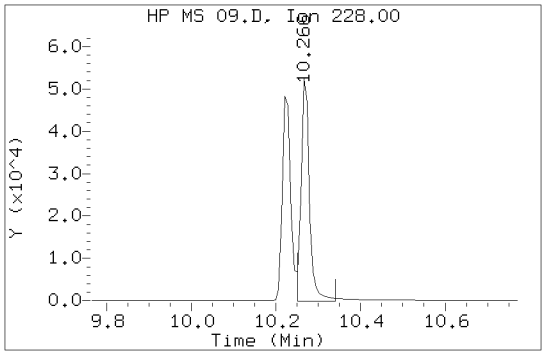
BEFORE

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



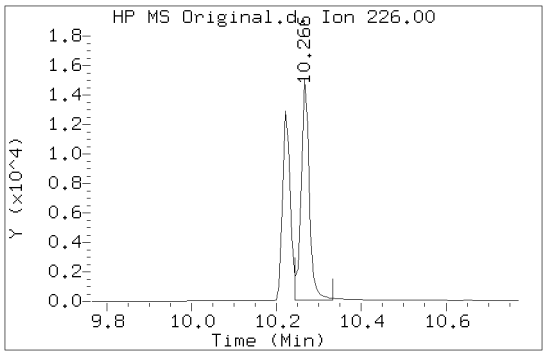
AFTER

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



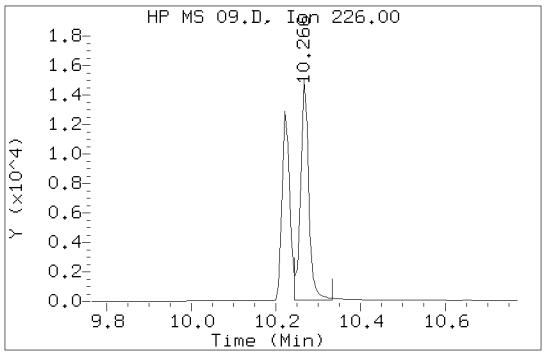
BEFORE

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



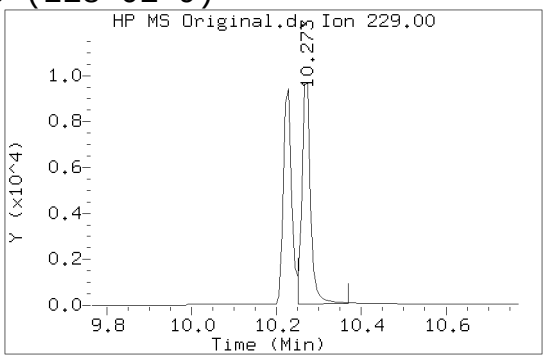
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene (218-01-9)

Reason Code:

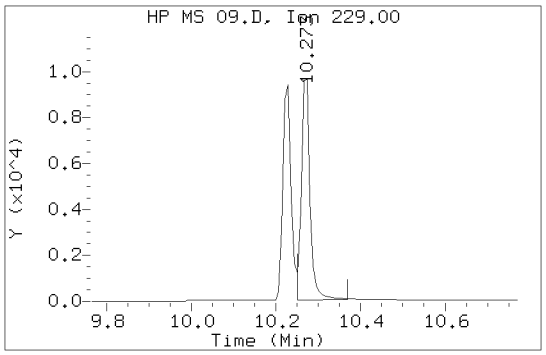
BEFORE

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

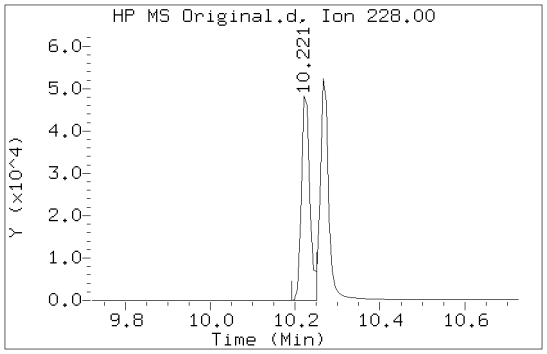


Benzo(a)Anthracene (56-55-3)

Reason Code:

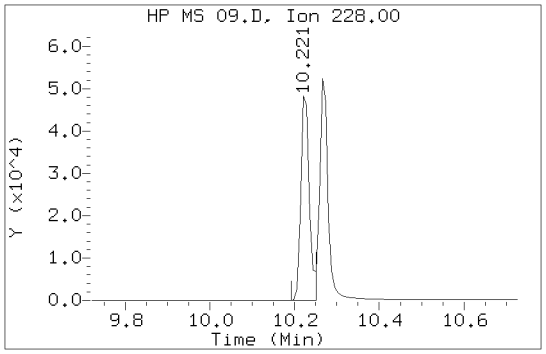
BEFORE

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



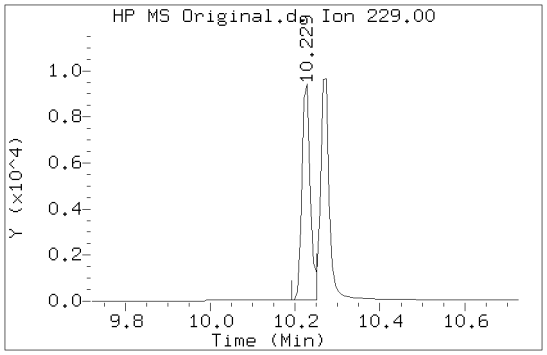
AFTER

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



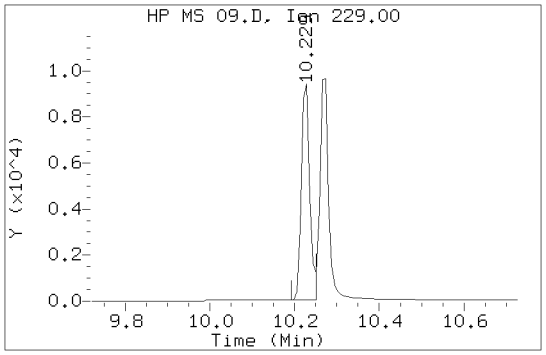
BEFORE

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



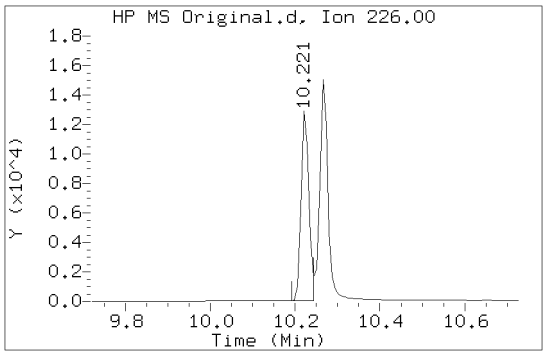
AFTER

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



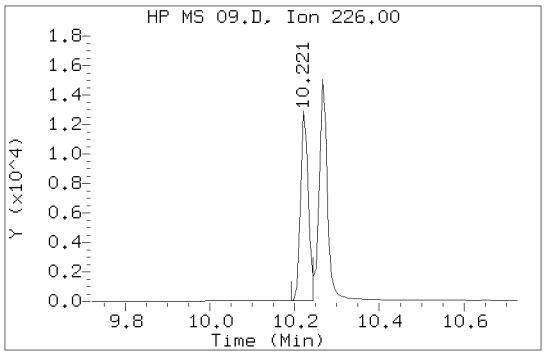
BEFORE

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



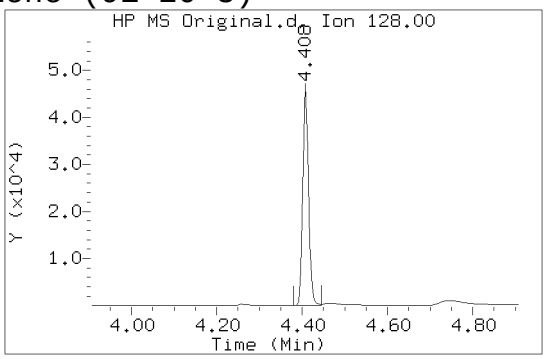
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene (91-20-3)

Reason Code:

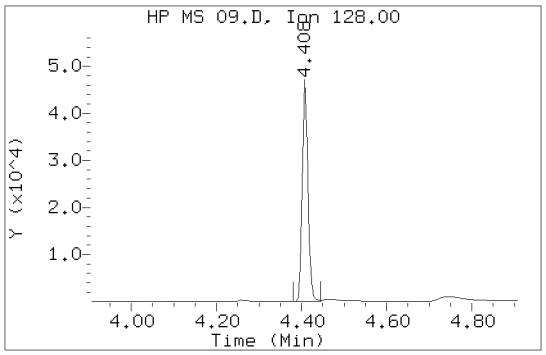
BEFORE

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



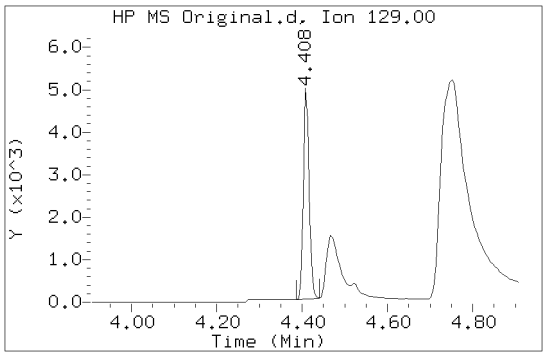
AFTER

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



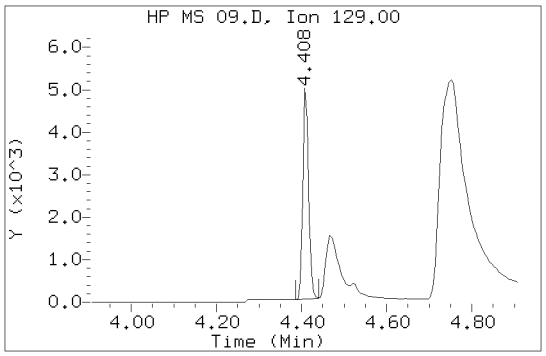
BEFORE

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

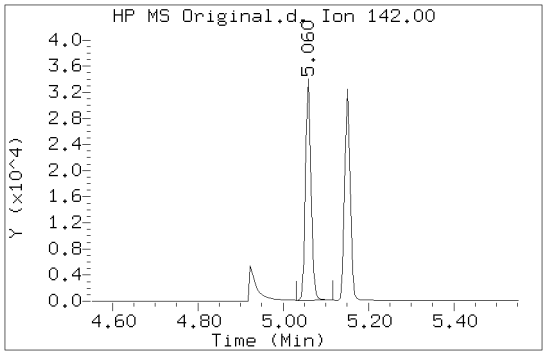


2-Methylnaphthalene (91-57-6)

Reason Code:

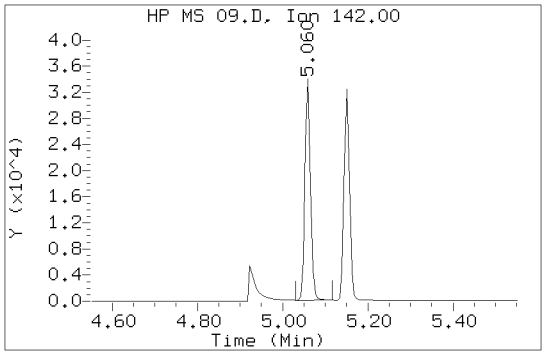
BEFORE

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



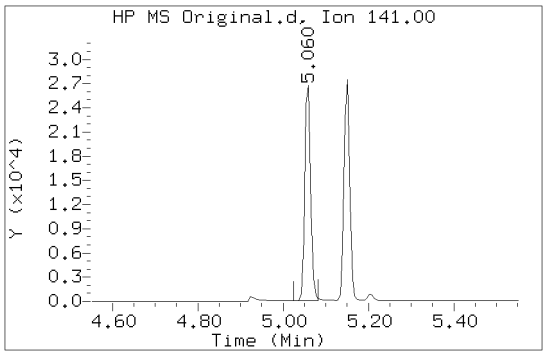
AFTER

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



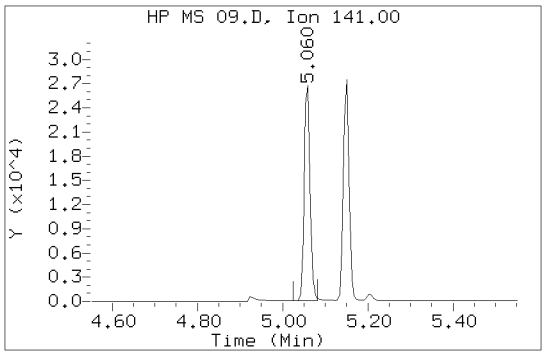
BEFORE

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



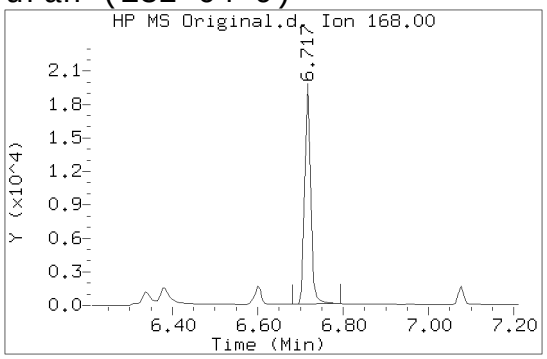
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzofuran (132-64-9)

Reason Code:

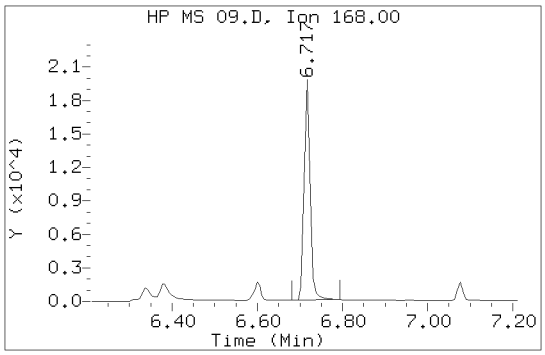
BEFORE

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



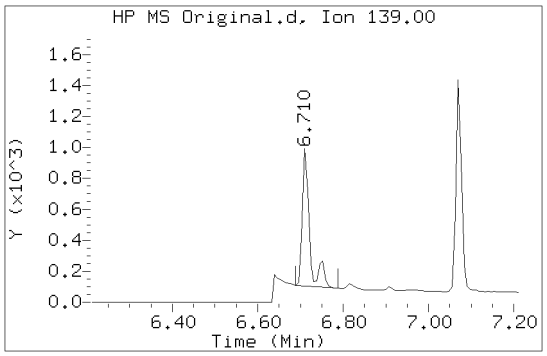
AFTER

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



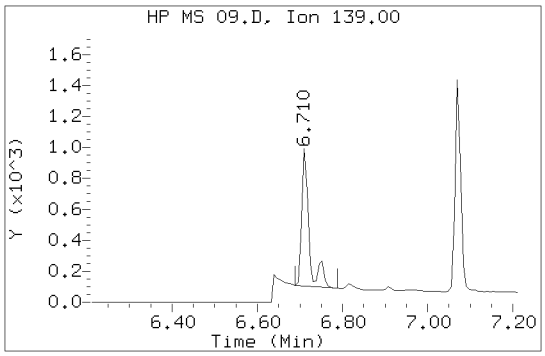
BEFORE

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

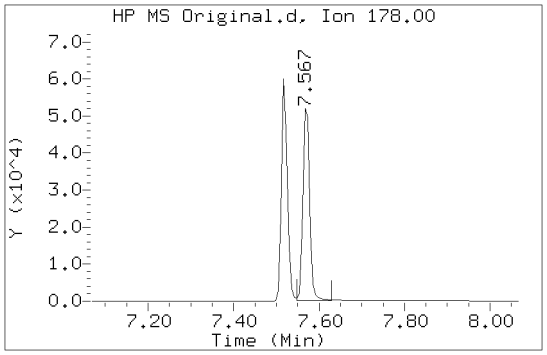


Anthracene (120-12-7)

Reason Code:

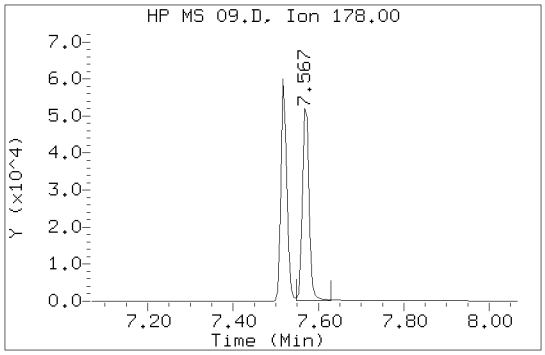
BEFORE

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



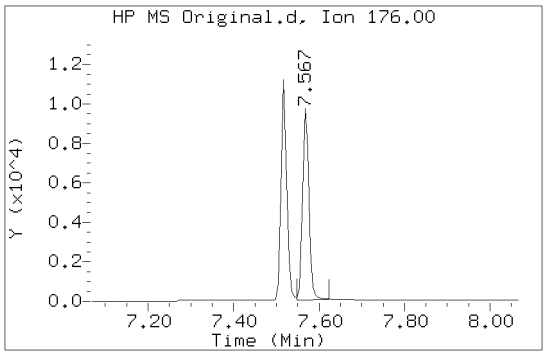
AFTER

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



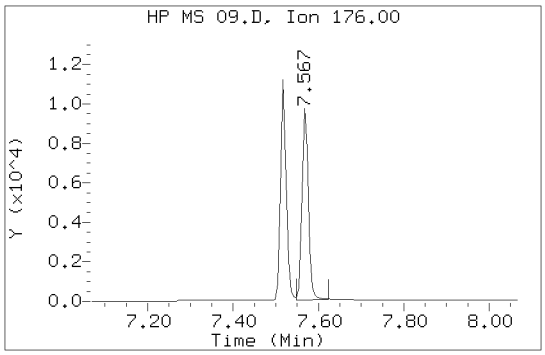
BEFORE

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



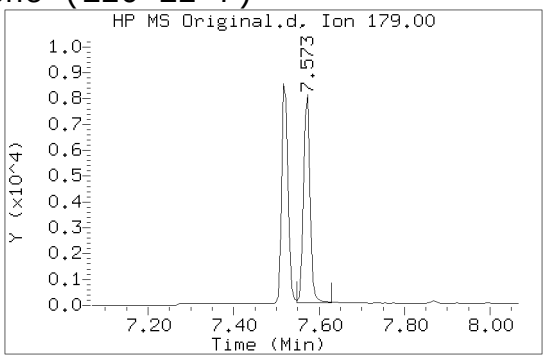
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Anthracene (120-12-7)

Reason Code:

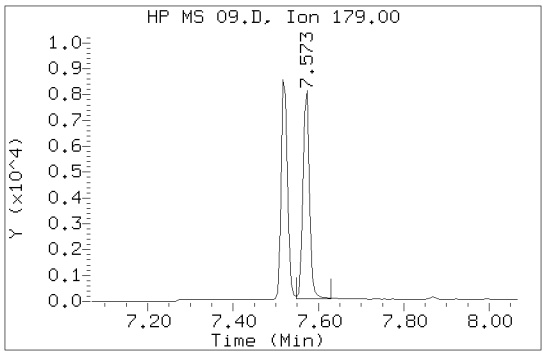
BEFORE

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

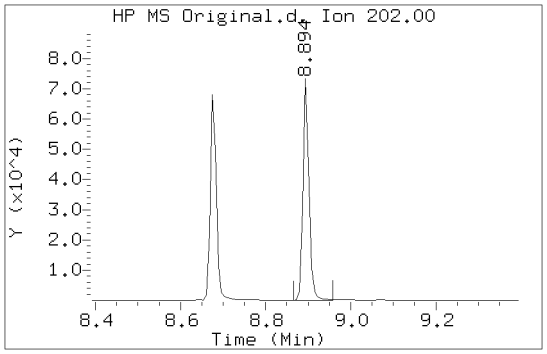


Pyrene (129-00-0)

Reason Code:

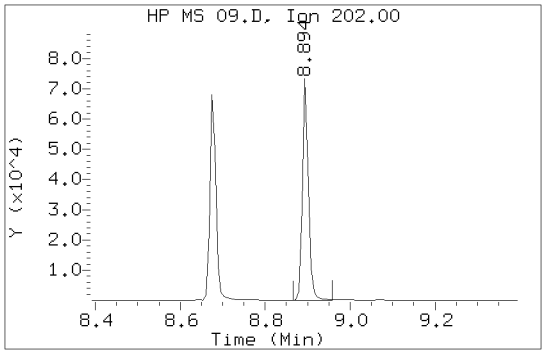
BEFORE

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



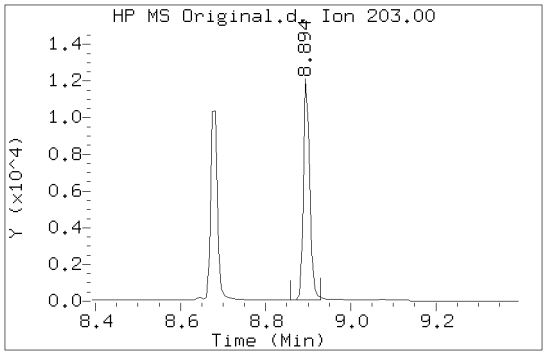
AFTER

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



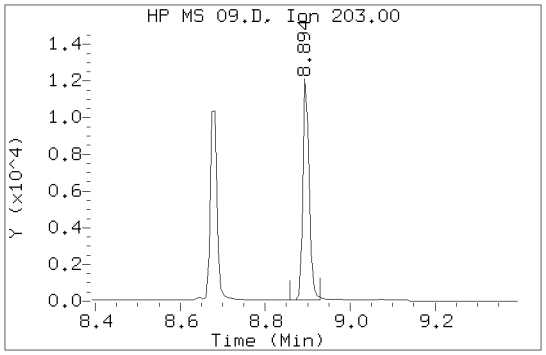
BEFORE

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



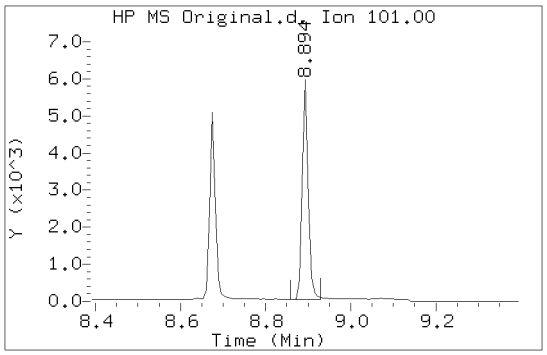
AFTER

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



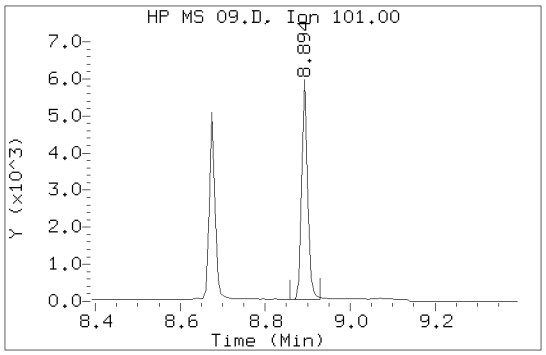
BEFORE

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



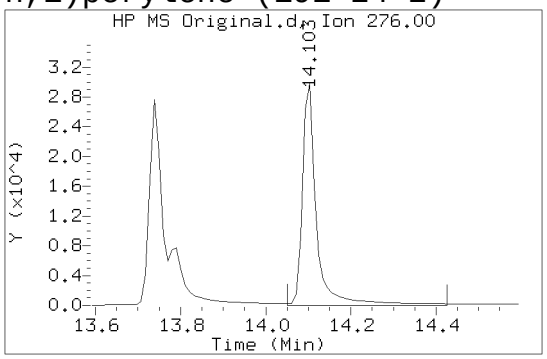
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

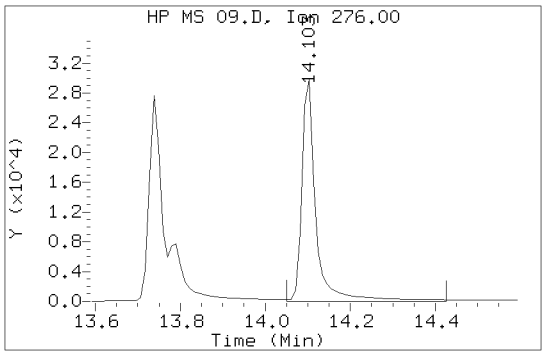
BEFORE

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



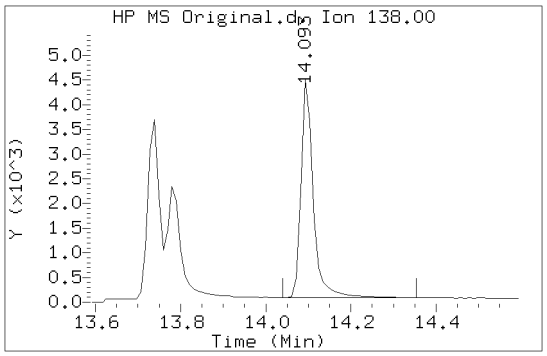
AFTER

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



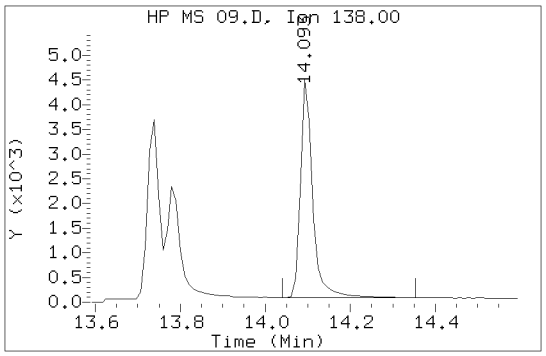
BEFORE

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



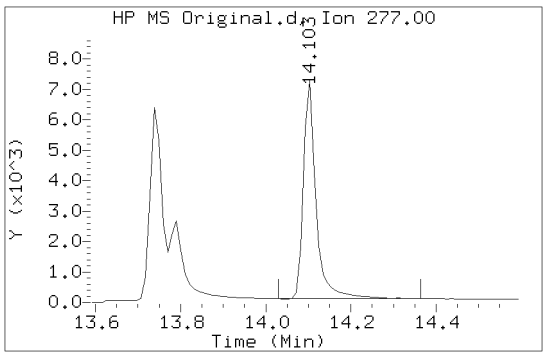
AFTER

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



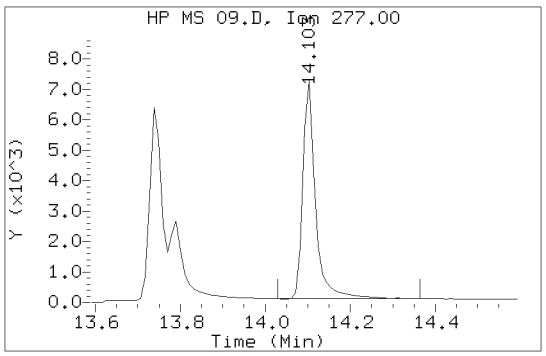
BEFORE

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

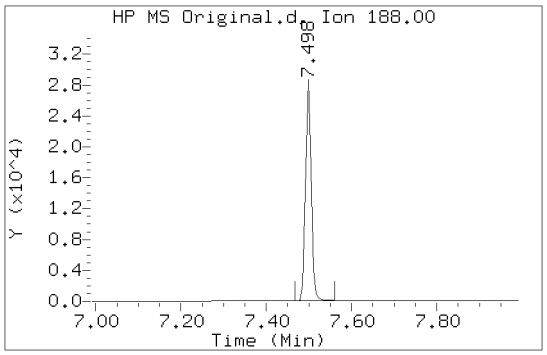


Phenanthrene-d10 (1517-22-2)

Reason Code:

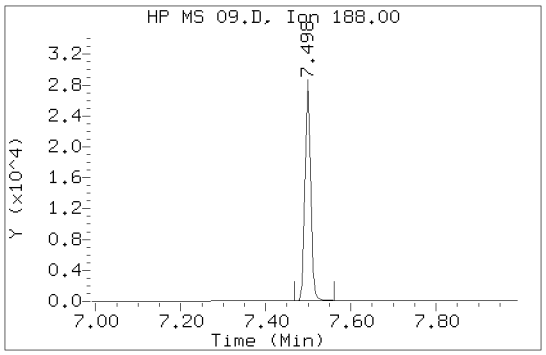
BEFORE

MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



AFTER

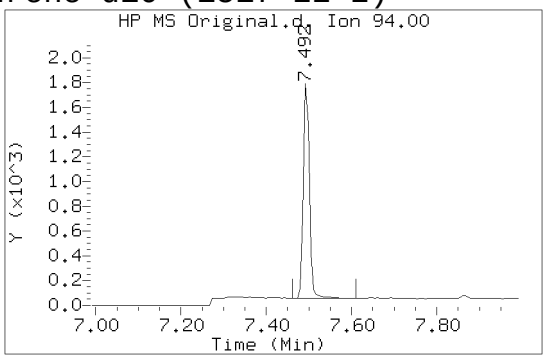
MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



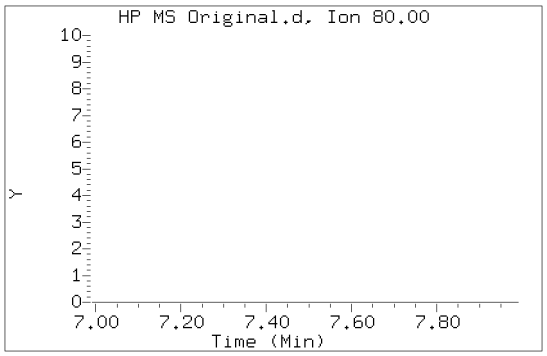
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

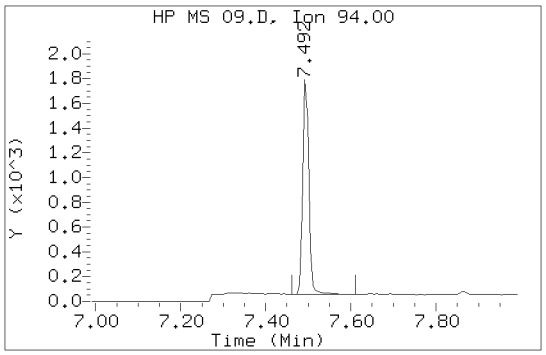


BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

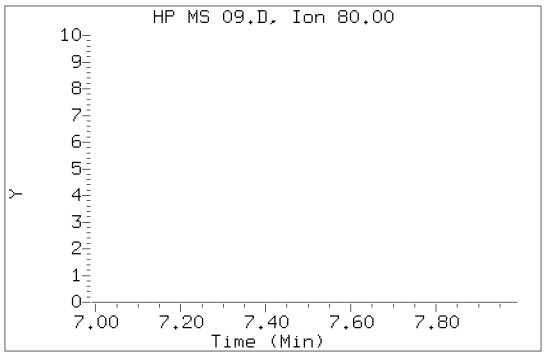


Reason Code:

AFTER
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

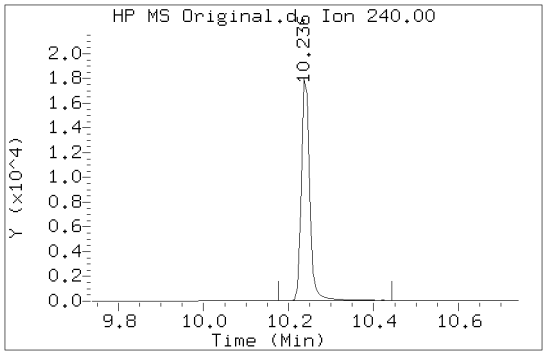


AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

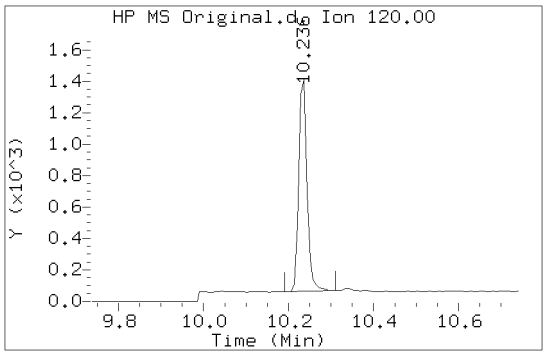


Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham

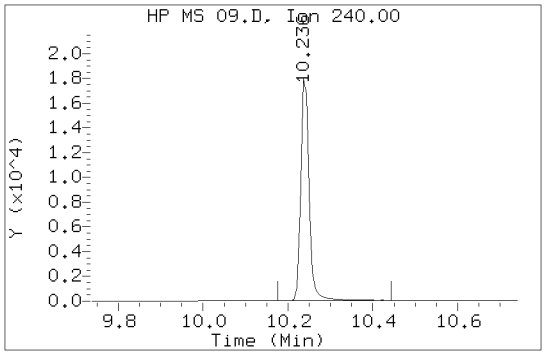


BEFORE
MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham

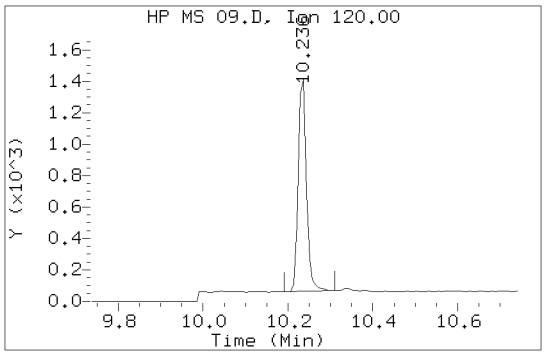


Reason Code:

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

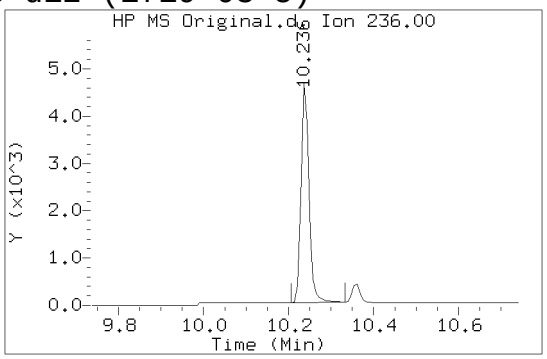


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene-d12 (1719-03-5)

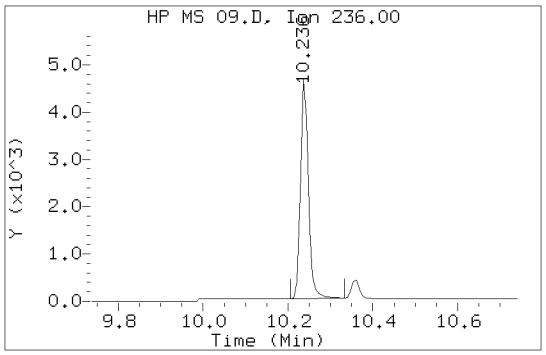
BEFORE

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

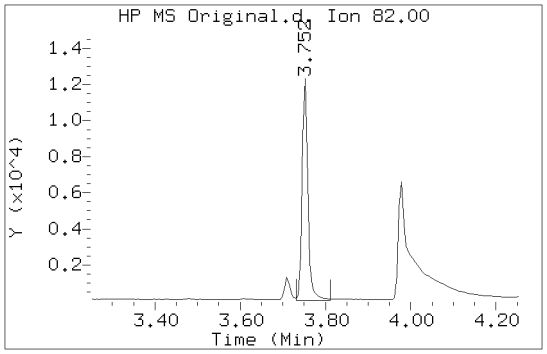


Reason Code:

Nitrobenzene-d5 (4165-60-0)

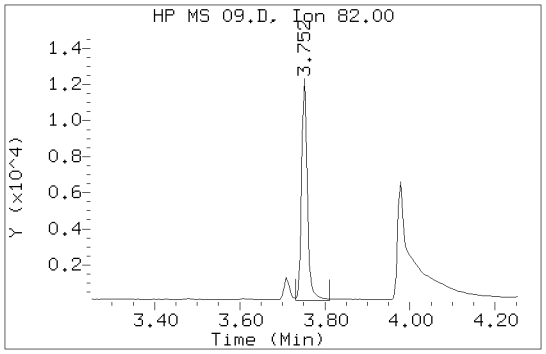
BEFORE

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



AFTER

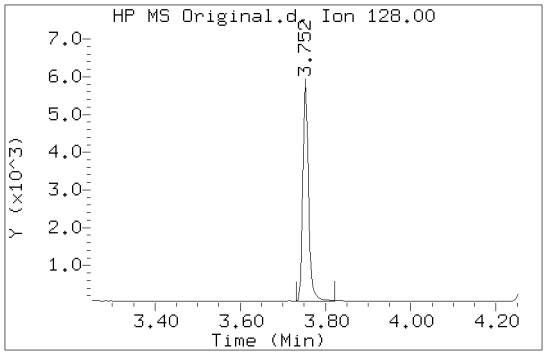
MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



Reason Code:

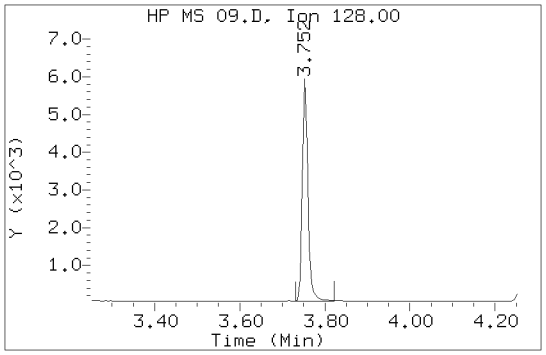
BEFORE

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



AFTER

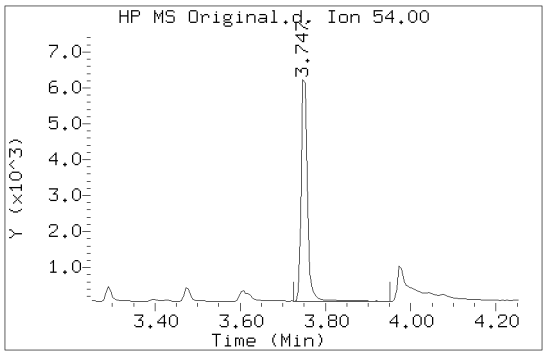
MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



Reason Code:

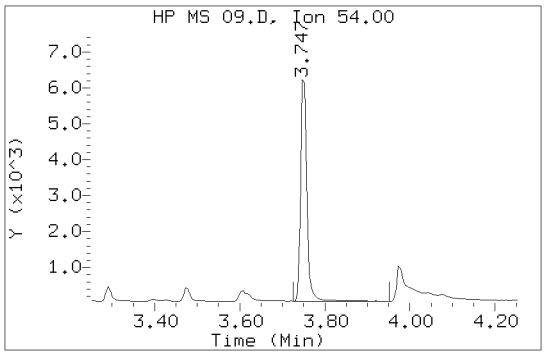
BEFORE

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



Reason Code:

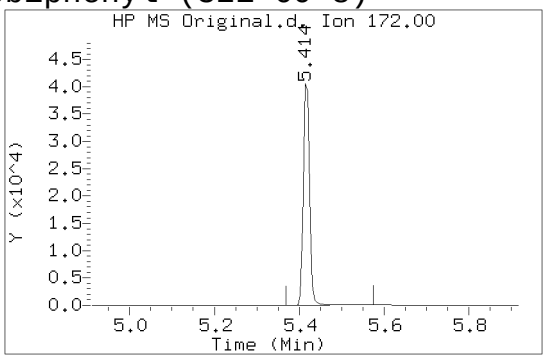
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

2-Fluorobiphenyl (321-60-8)

Reason Code:

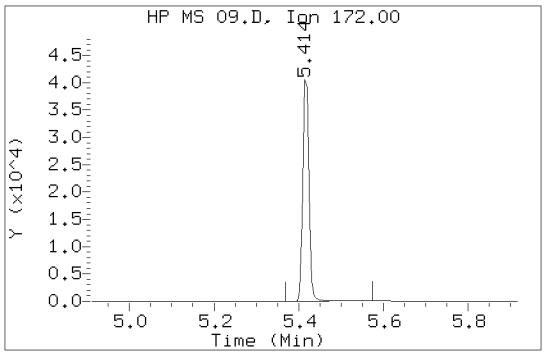
BEFORE

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



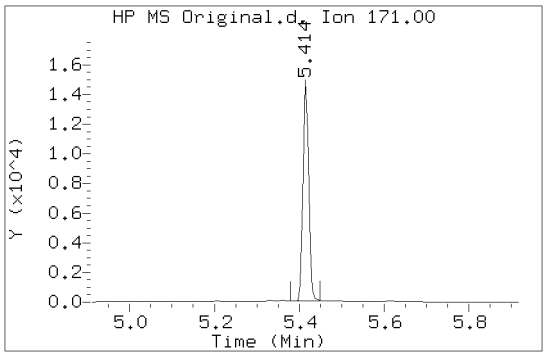
AFTER

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



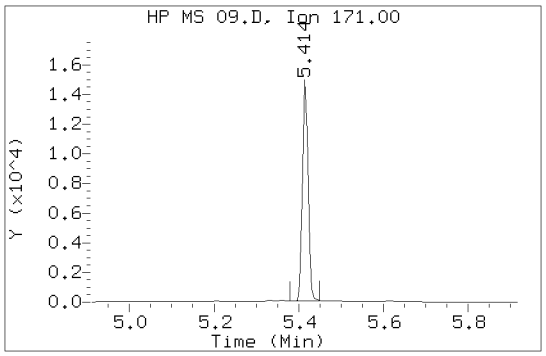
BEFORE

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

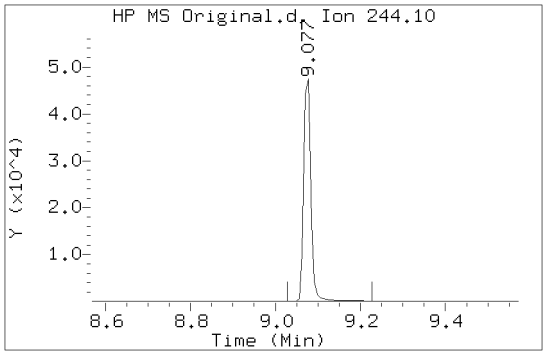


4-Terphenyl-d14 (1718-51-0)

Reason Code:

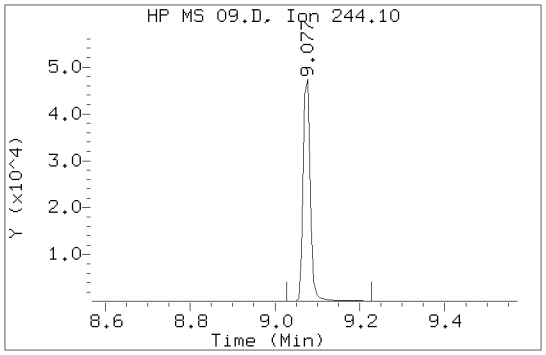
BEFORE

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



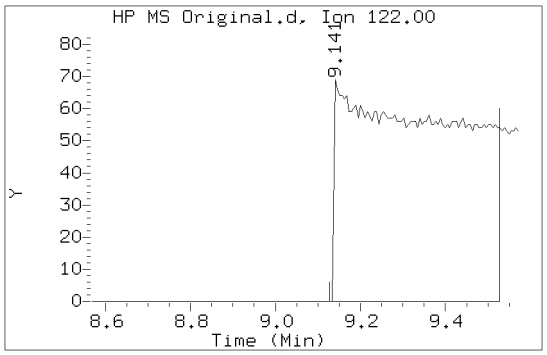
AFTER

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



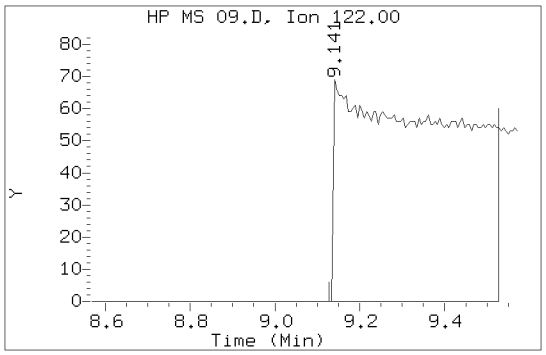
BEFORE

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



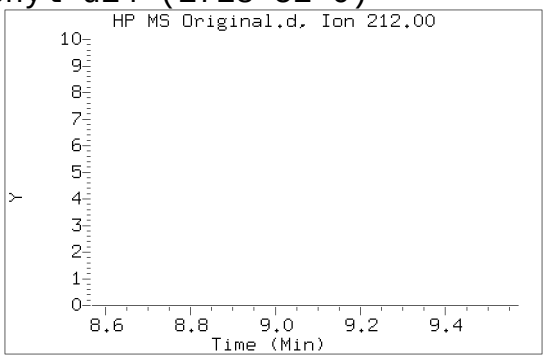
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

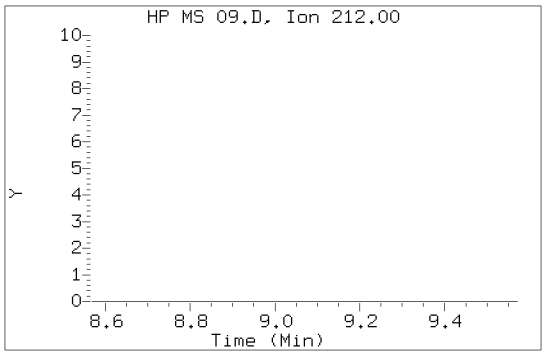
BEFORE

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

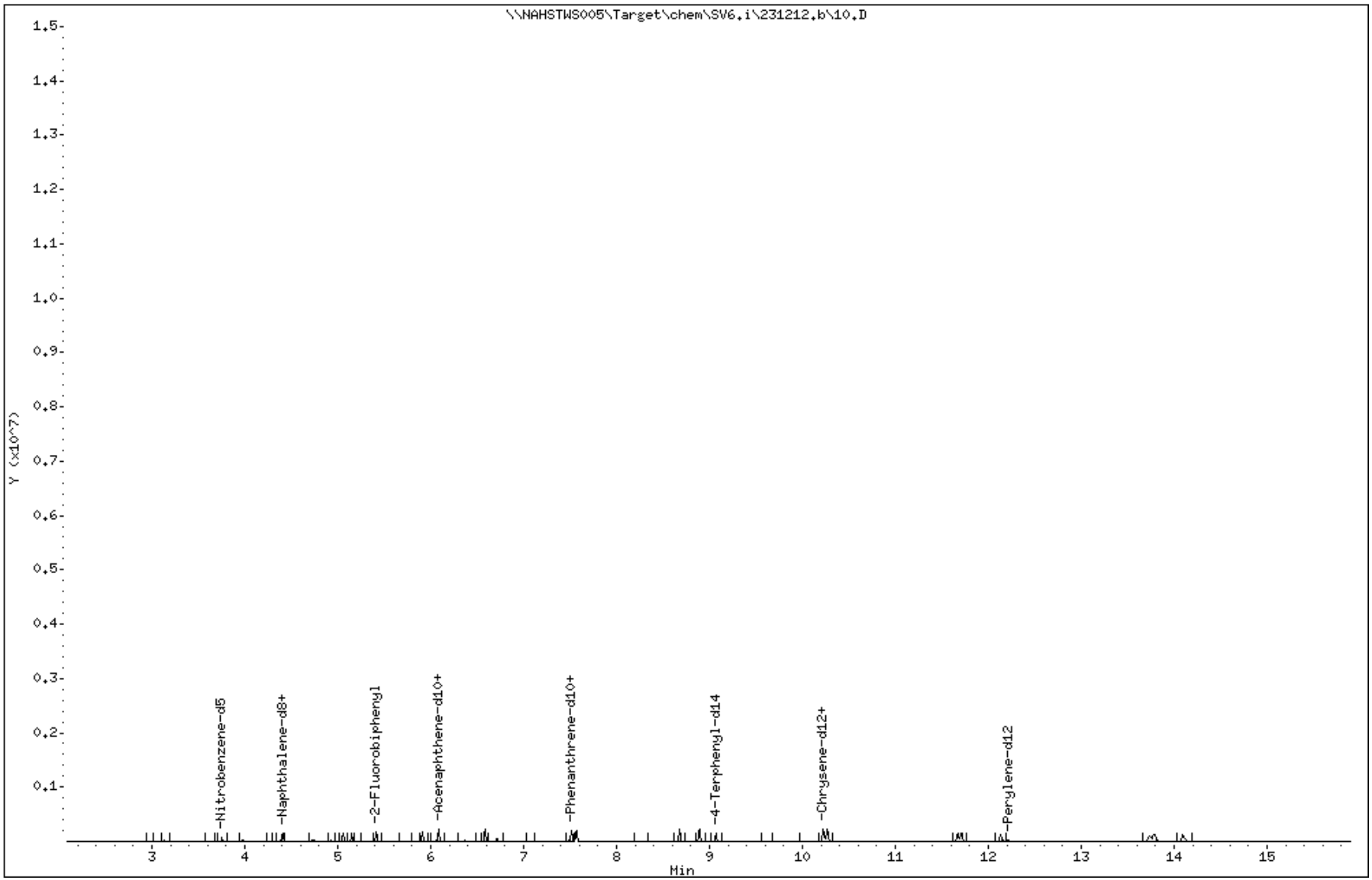
Sample Info: PAHSIM-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



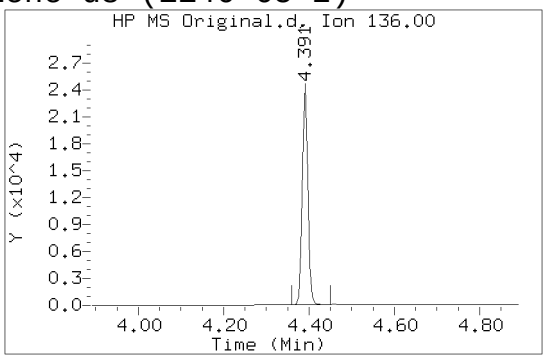
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

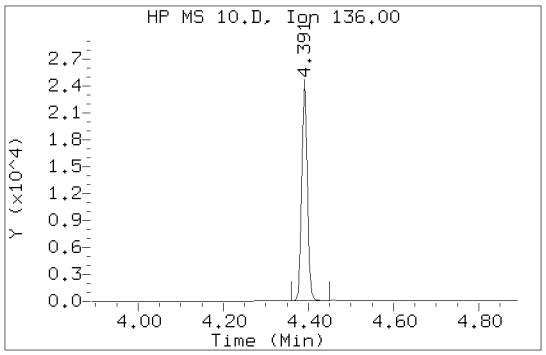
BEFORE

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



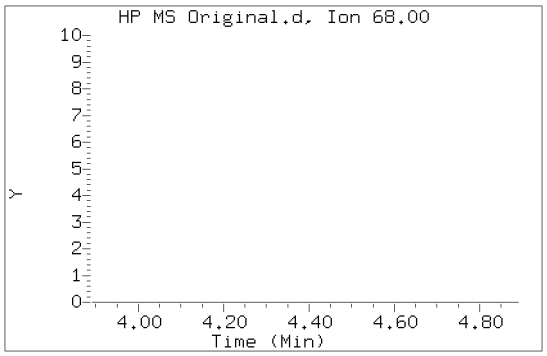
AFTER

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



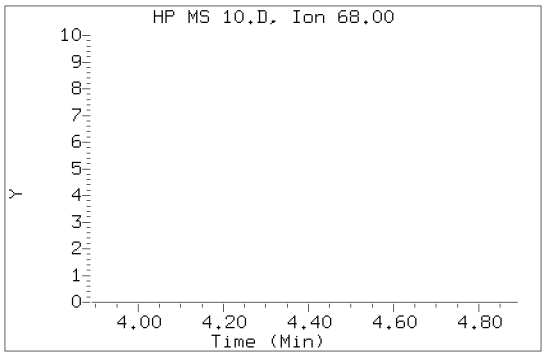
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

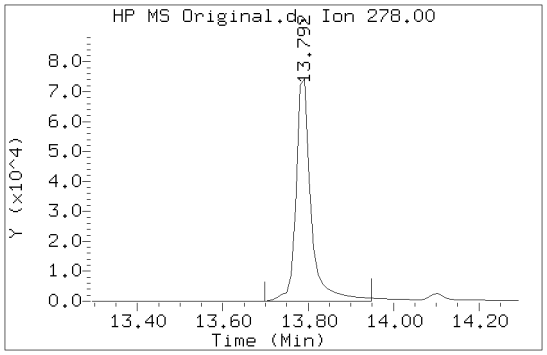


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

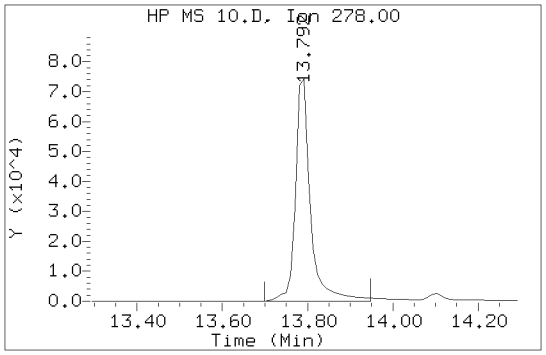
BEFORE

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



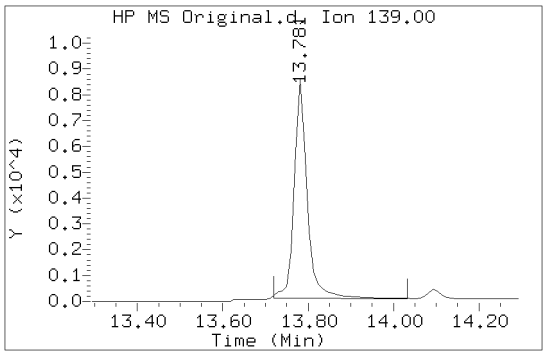
AFTER

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



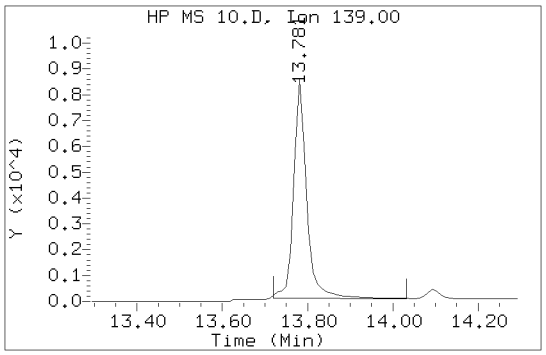
BEFORE

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



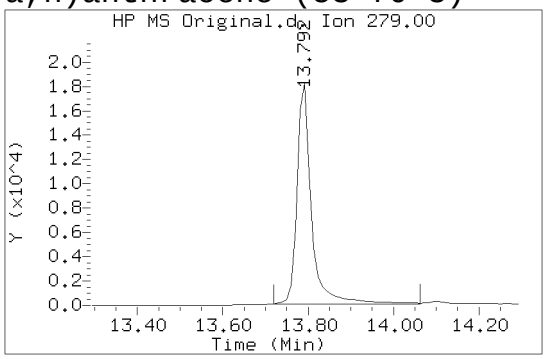
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

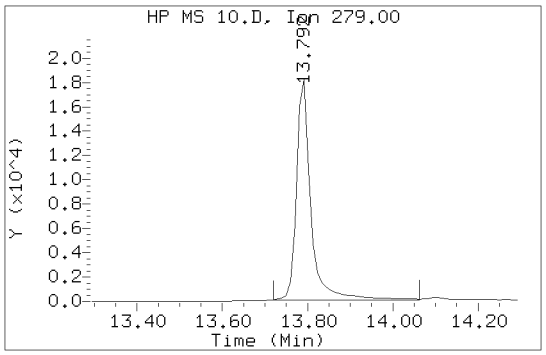
BEFORE

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

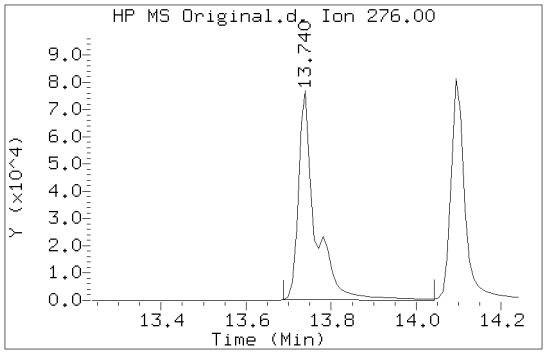


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

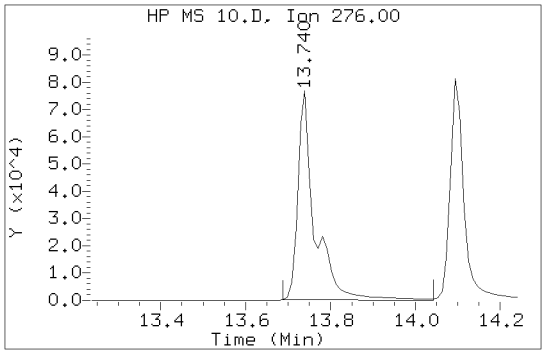
BEFORE

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



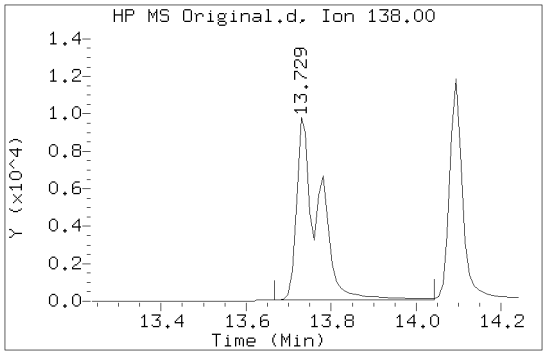
AFTER

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



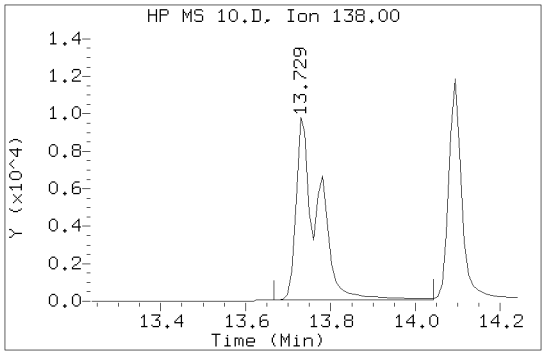
BEFORE

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



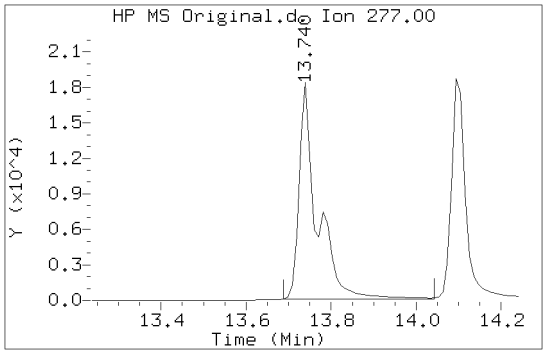
AFTER

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



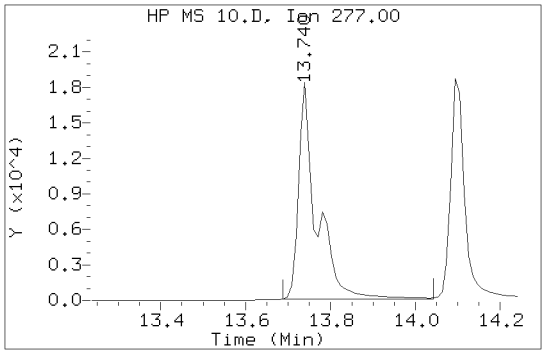
BEFORE

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



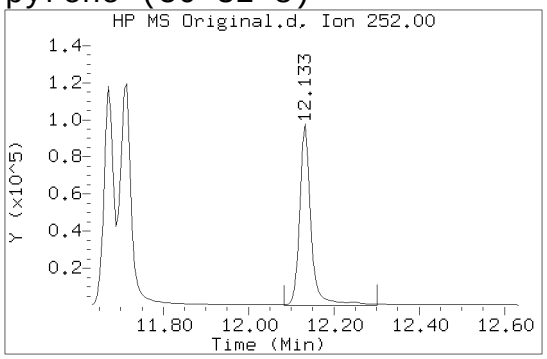
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(a)pyrene (50-32-8)

Reason Code:

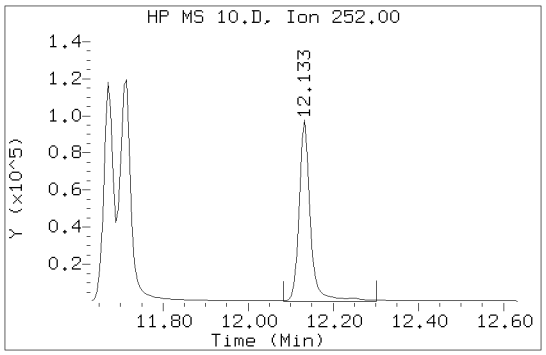
BEFORE

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



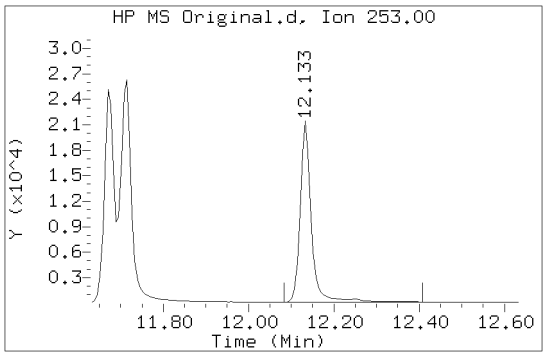
AFTER

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



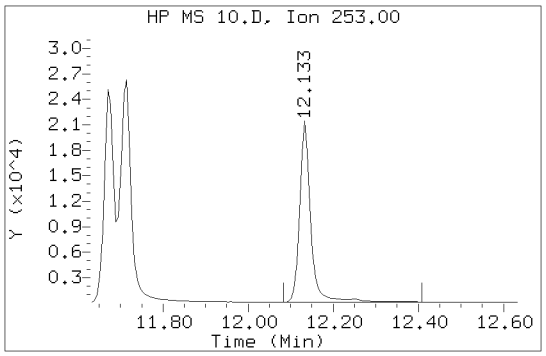
BEFORE

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



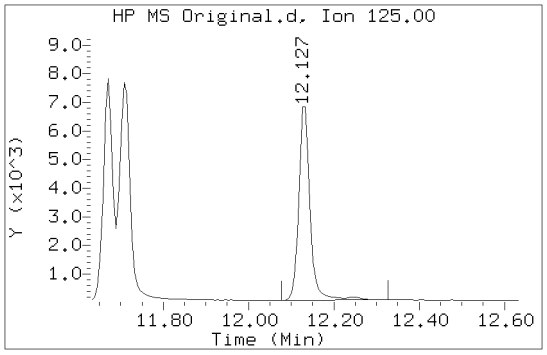
AFTER

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



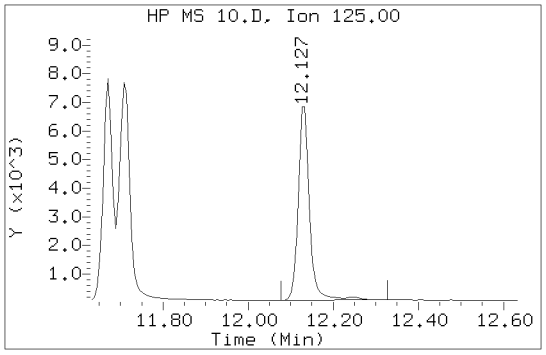
BEFORE

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

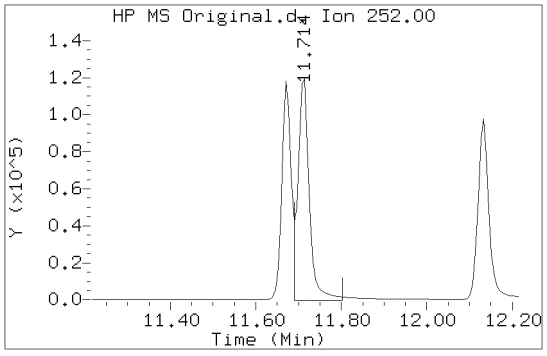


Benzo(k)fluoranthene (207-08-9)

Reason Code:

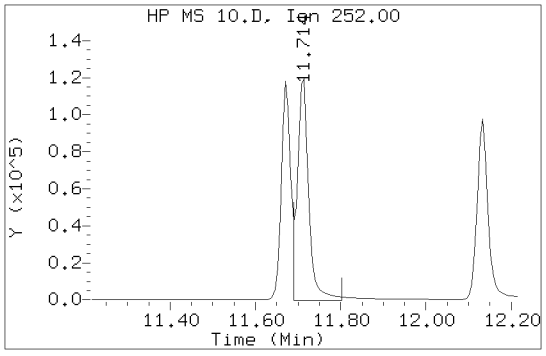
BEFORE

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



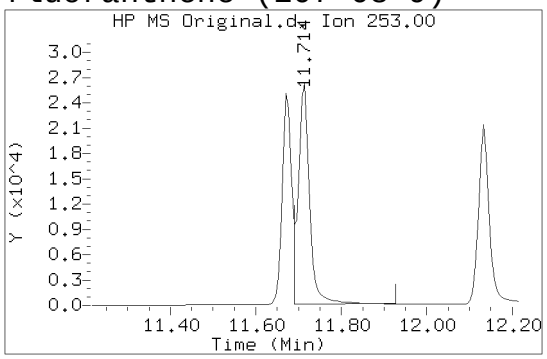
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(k)fluoranthene (207-08-9)

Reason Code:

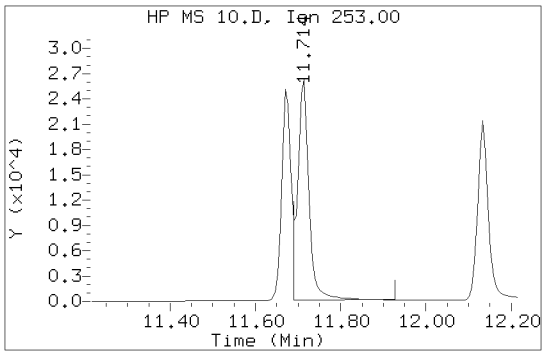
BEFORE

MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



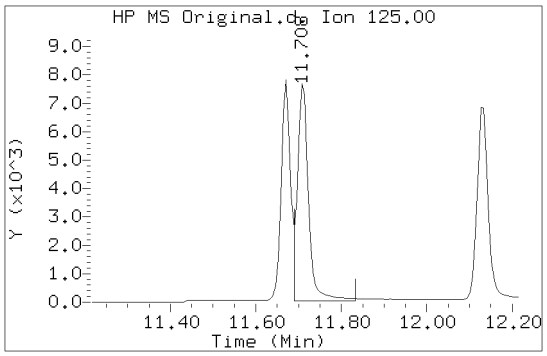
AFTER

MASS
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AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



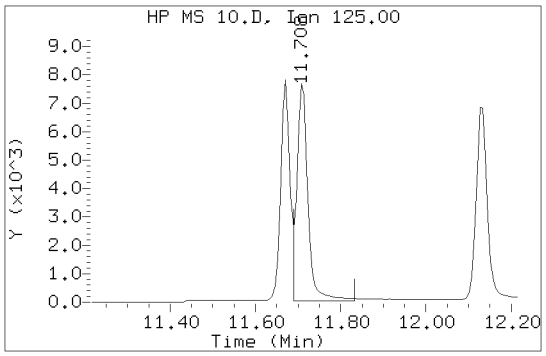
BEFORE

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

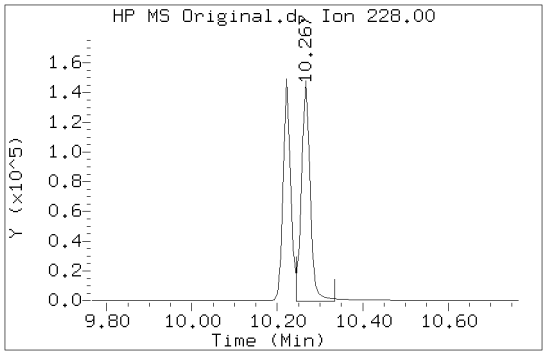


Chrysene (218-01-9)

Reason Code:

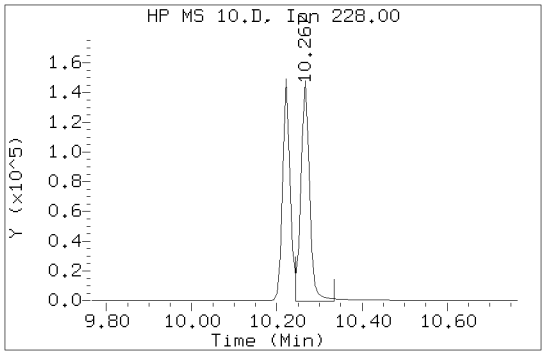
BEFORE

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



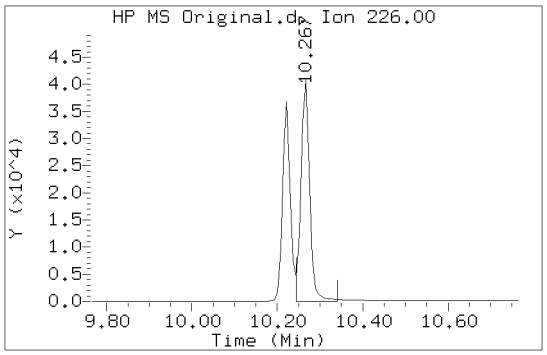
AFTER

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



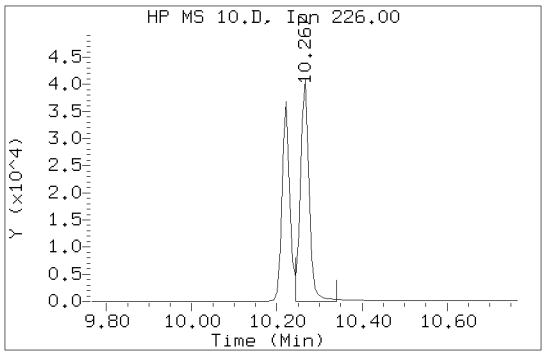
BEFORE

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



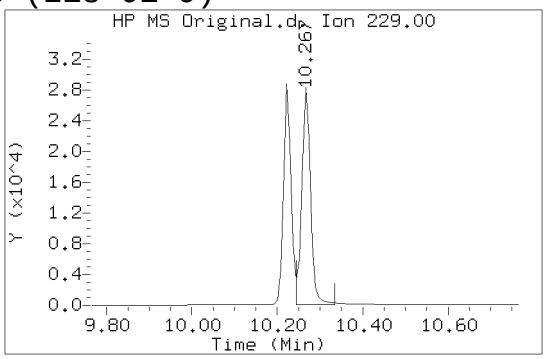
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Chrysene (218-01-9)

Reason Code:

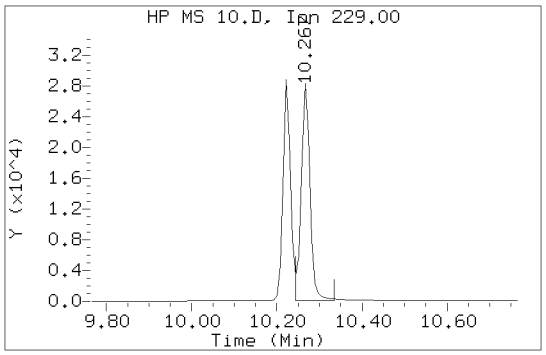
BEFORE

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

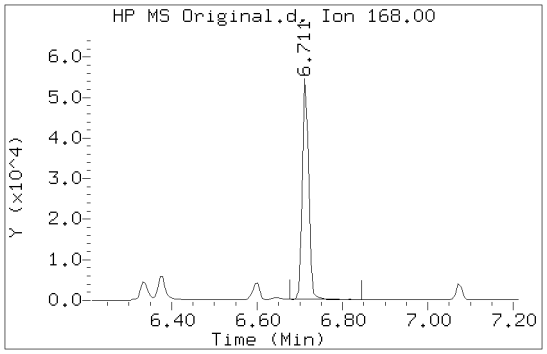


Dibenzofuran (132-64-9)

Reason Code:

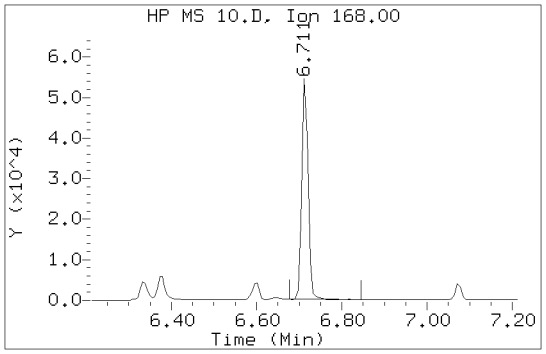
BEFORE

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



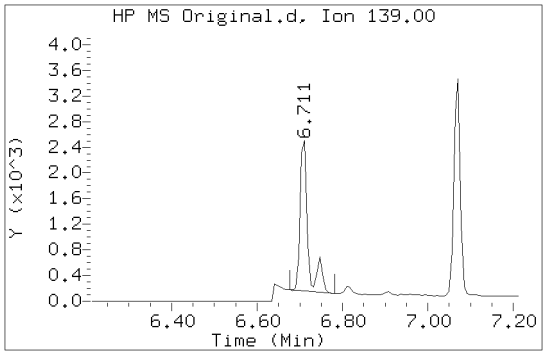
AFTER

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



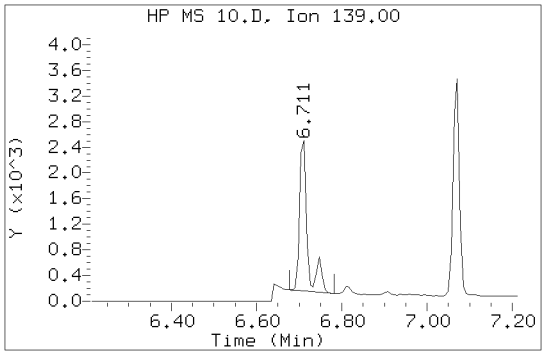
BEFORE

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

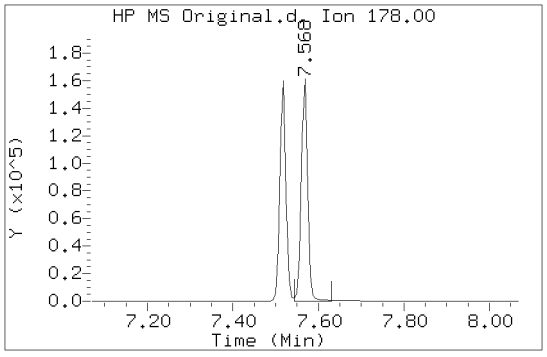


Anthracene (120-12-7)

Reason Code:

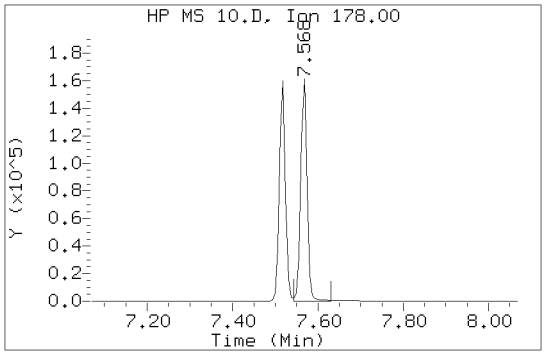
BEFORE

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



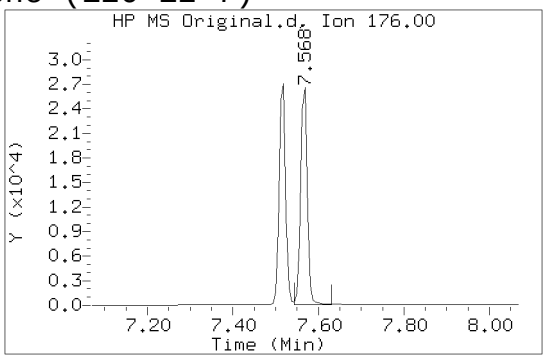
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Anthracene (120-12-7)

Reason Code:

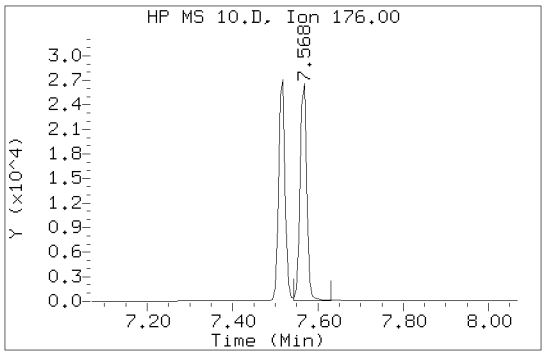
BEFORE

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



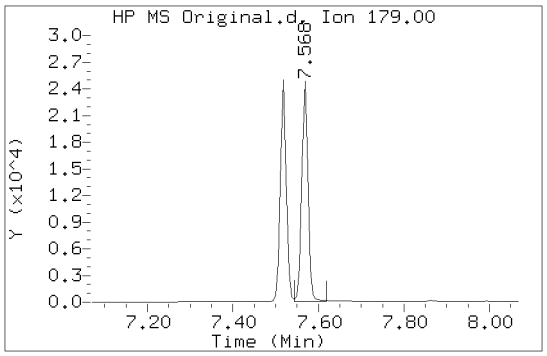
AFTER

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



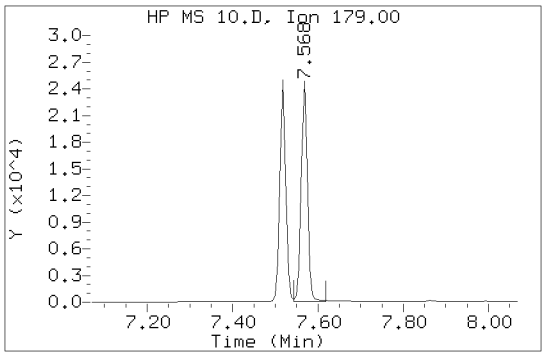
BEFORE

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

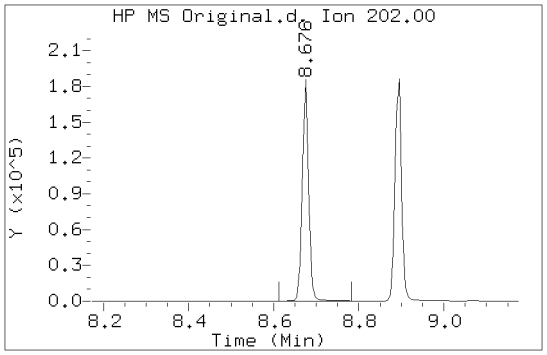


Fluoranthene (206-44-0)

Reason Code:

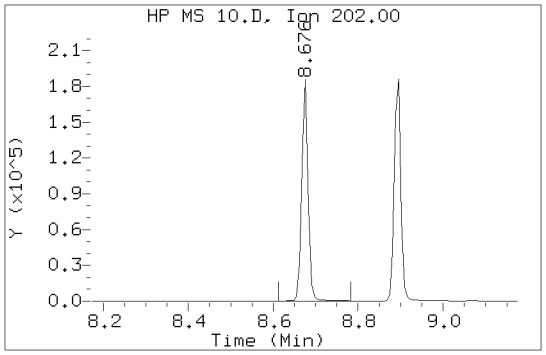
BEFORE

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



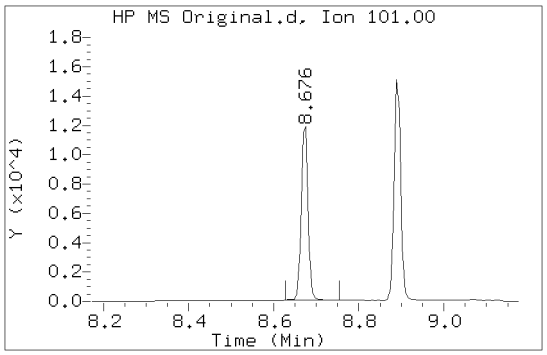
AFTER

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



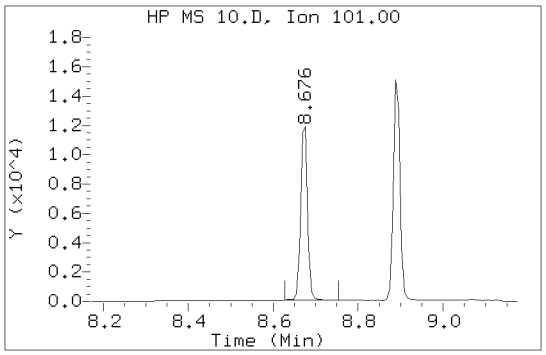
BEFORE

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



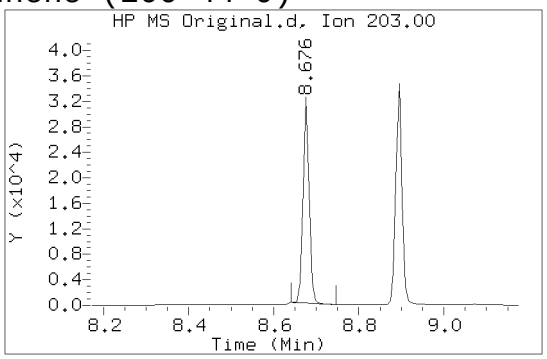
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Fluoranthene (206-44-0)

Reason Code:

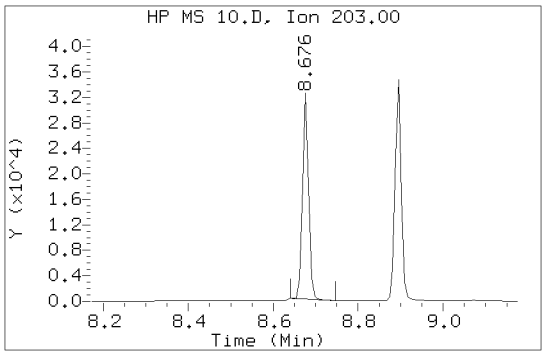
BEFORE

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

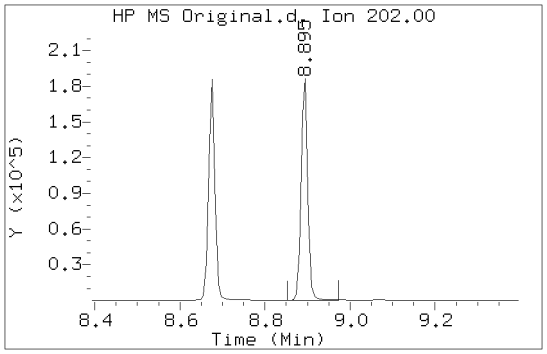


Pyrene (129-00-0)

Reason Code:

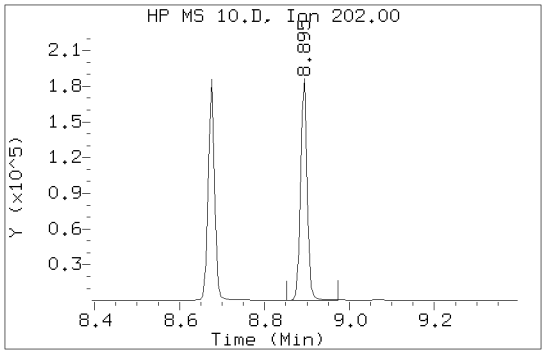
BEFORE

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



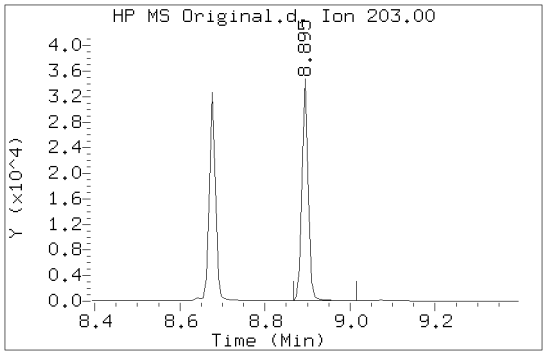
AFTER

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



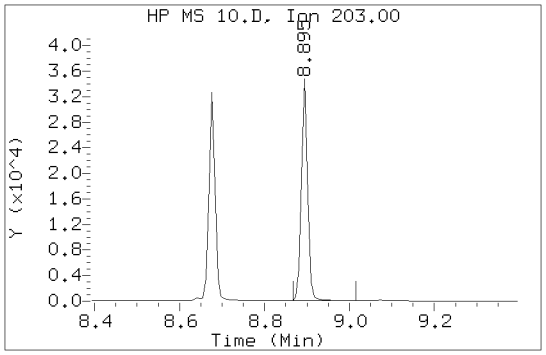
BEFORE

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



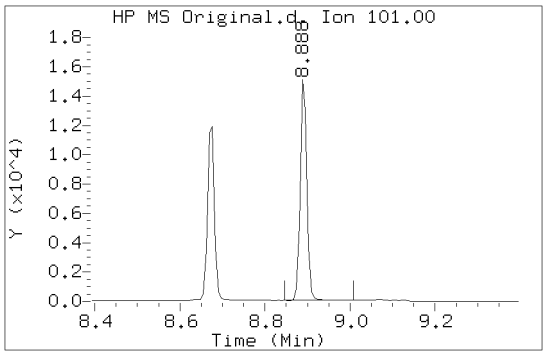
AFTER

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



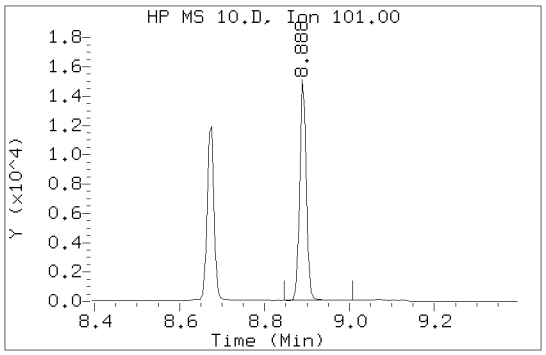
BEFORE

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



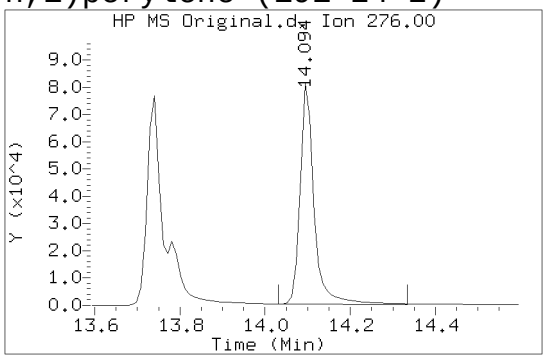
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

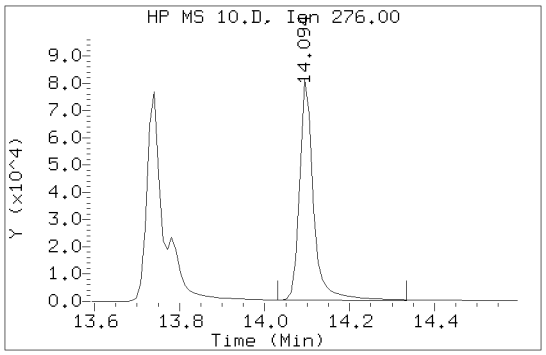
BEFORE

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



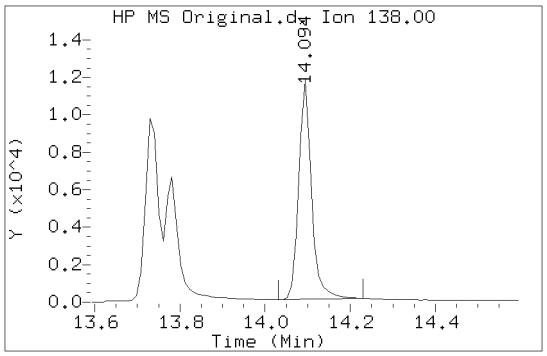
AFTER

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



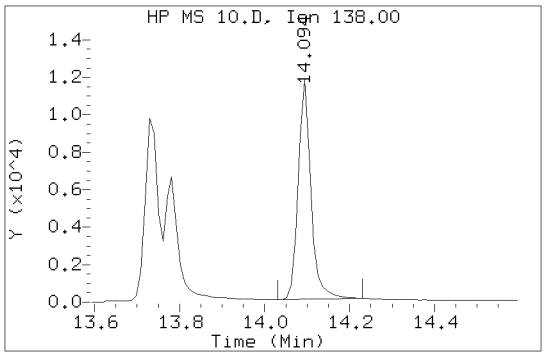
BEFORE

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



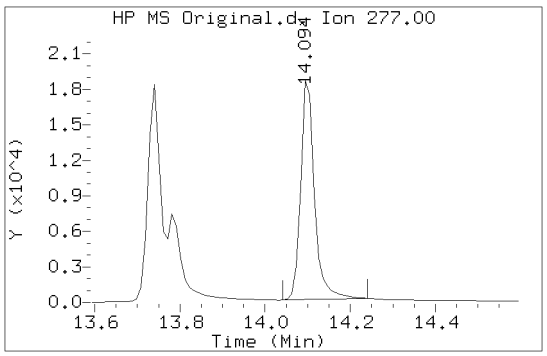
AFTER

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



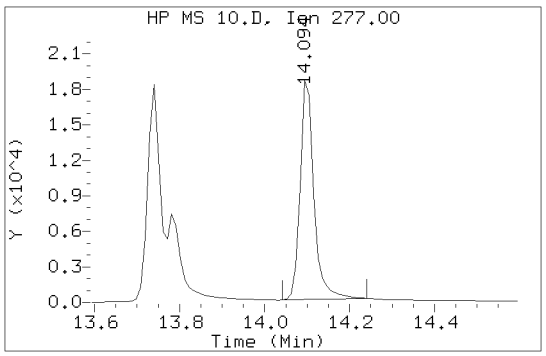
BEFORE

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

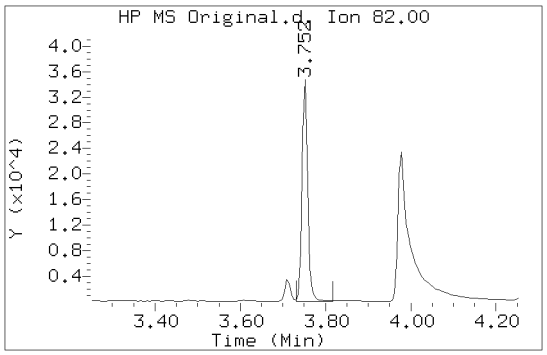


Nitrobenzene-d5 (4165-60-0)

Reason Code:

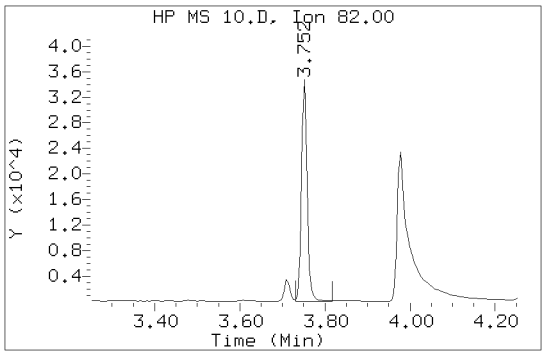
BEFORE

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

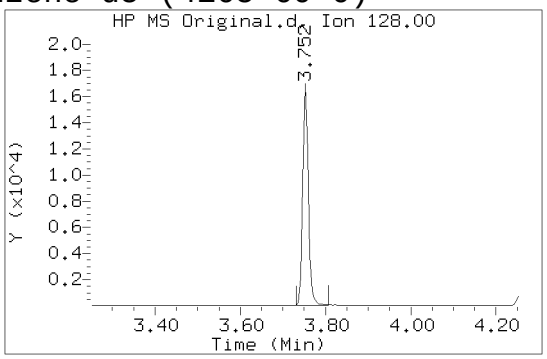


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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Nitrobenzene-d5 (4165-60-0)

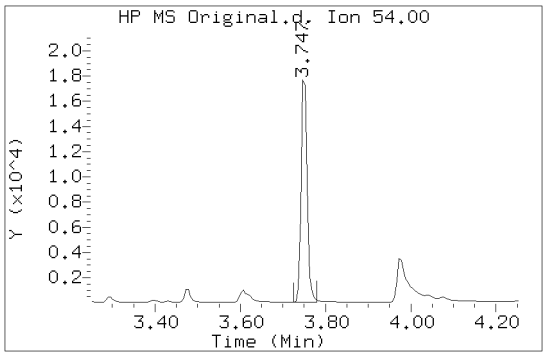
BEFORE

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



BEFORE

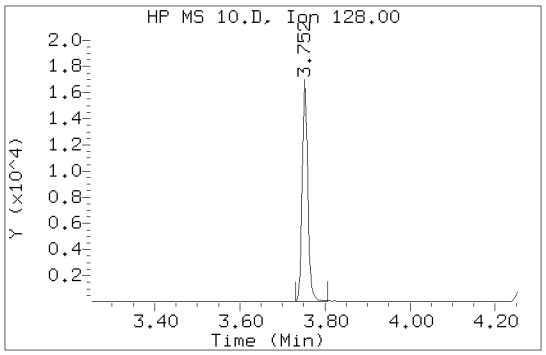
MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



Reason Code:

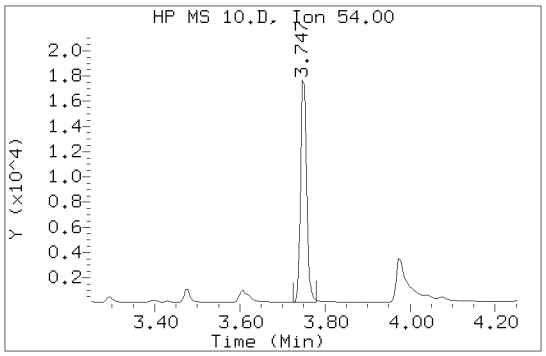
AFTER

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



AFTER

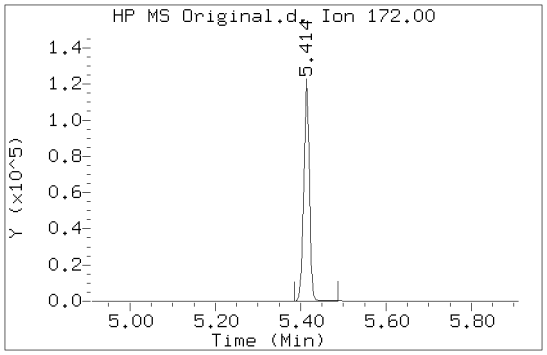
MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



2-Fluorobiphenyl (321-60-8)

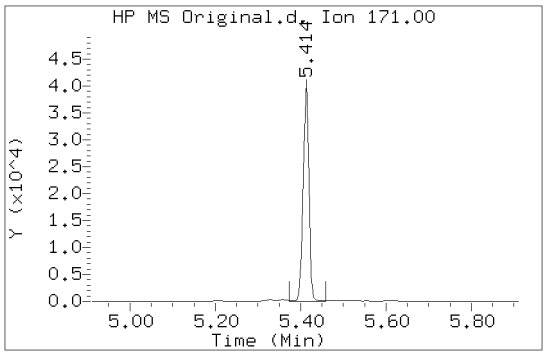
BEFORE

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



BEFORE

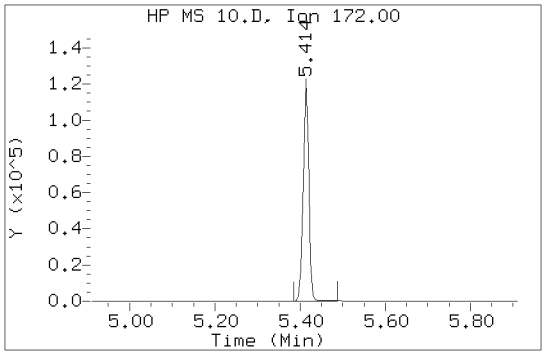
MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



Reason Code:

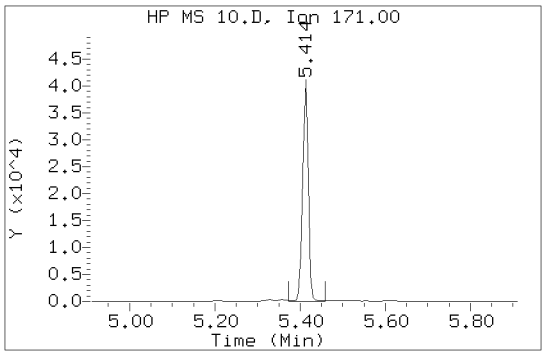
AFTER

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



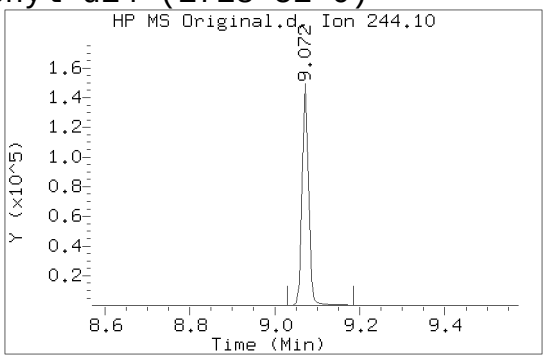
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

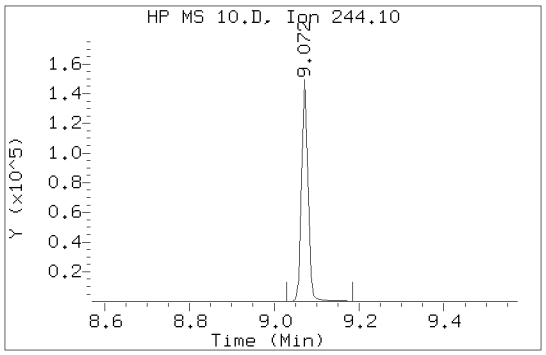
BEFORE

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



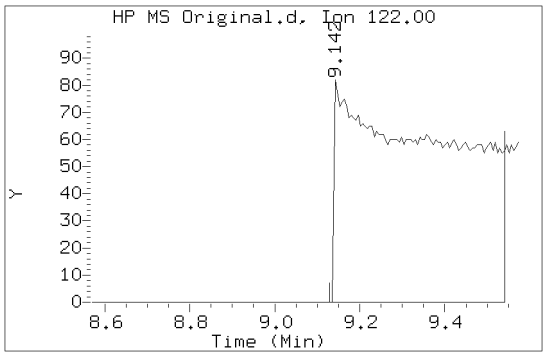
AFTER

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



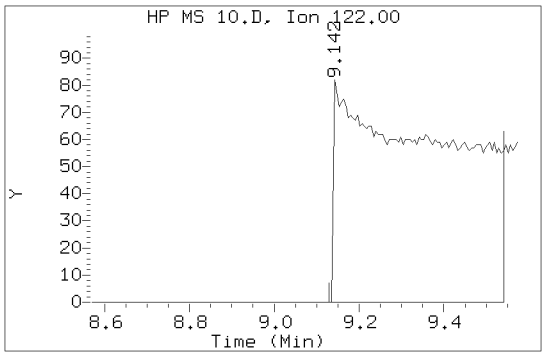
BEFORE

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



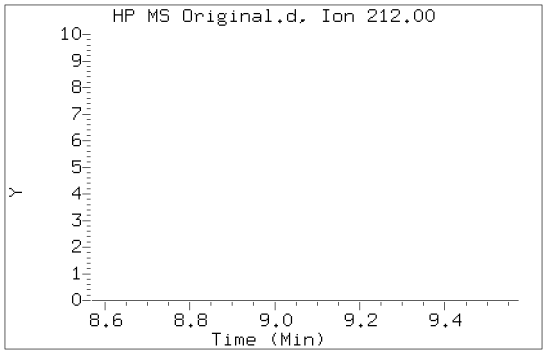
AFTER

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



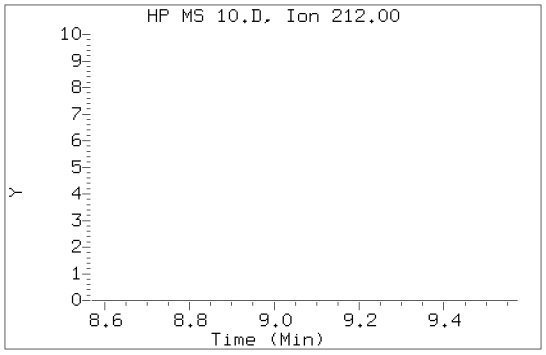
BEFORE

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



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.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\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)

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(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

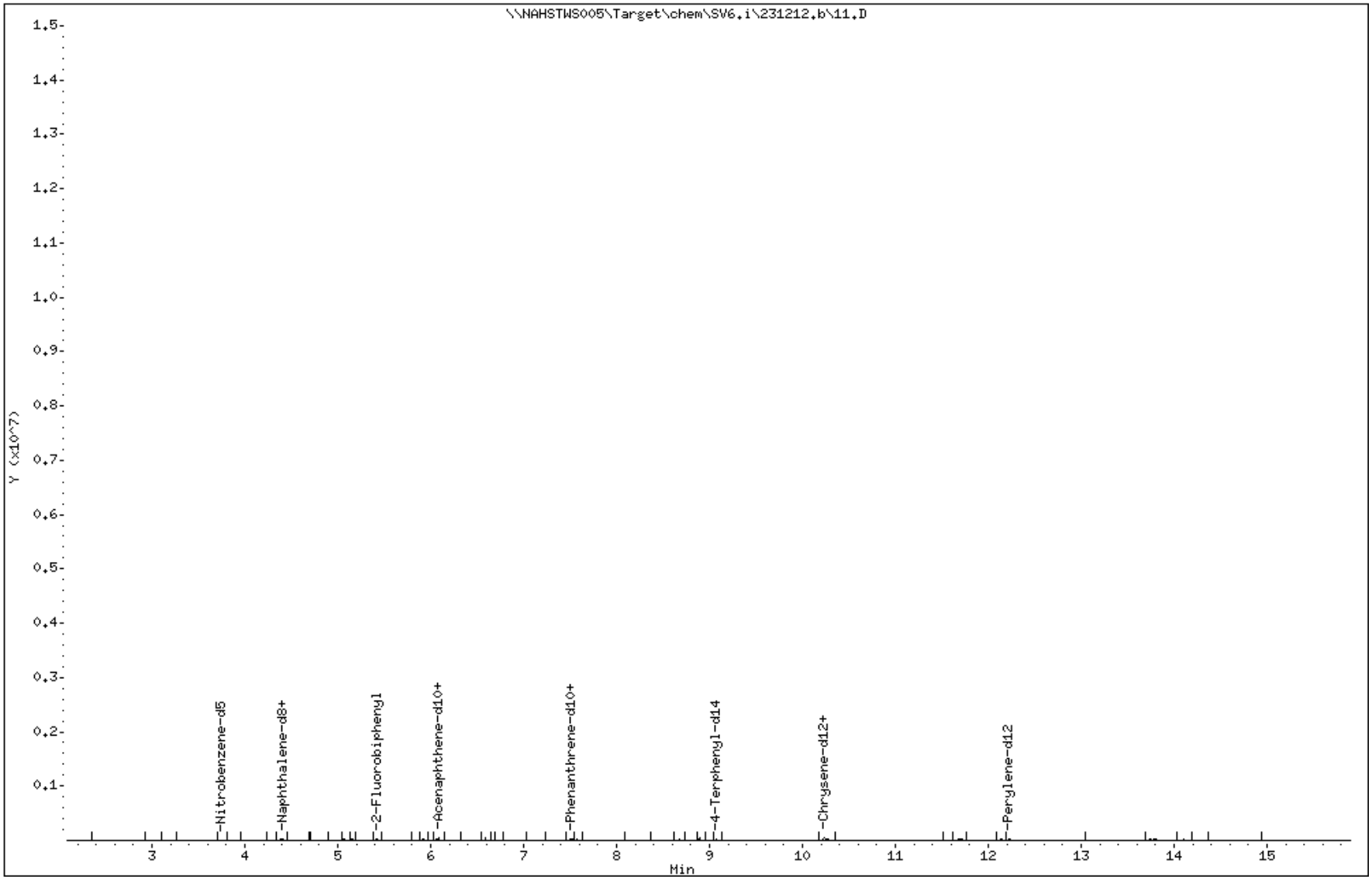
Sample Info: PAHSIM ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



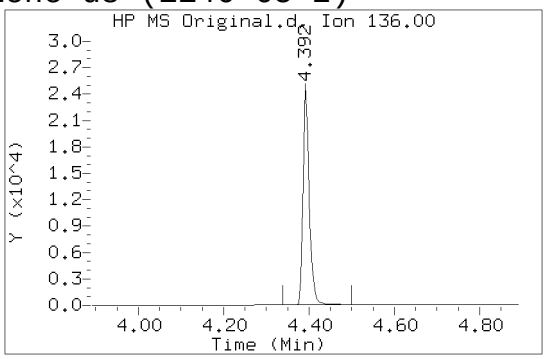
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

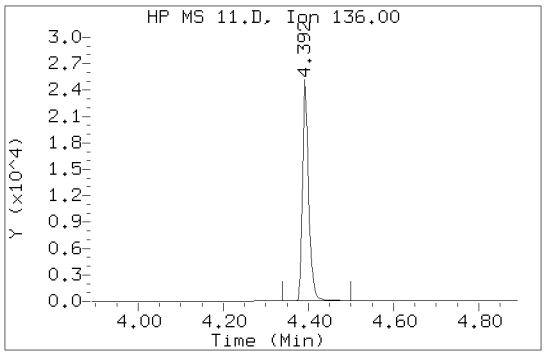
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HEIGHT
25116
18-Dec-2023
10:16
linh
pham



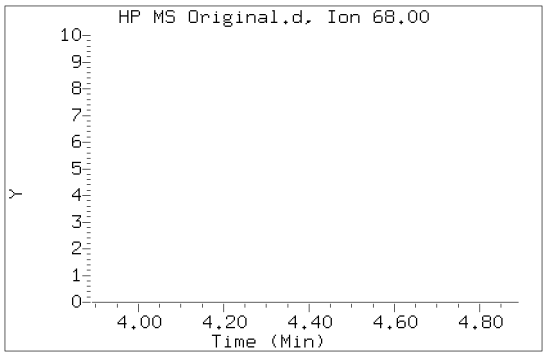
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10:16
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pham



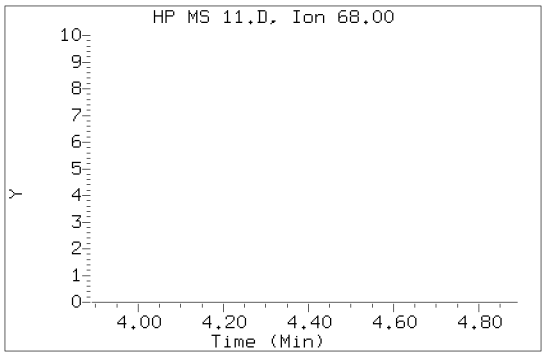
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0
18-Dec-2023
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AFTER

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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

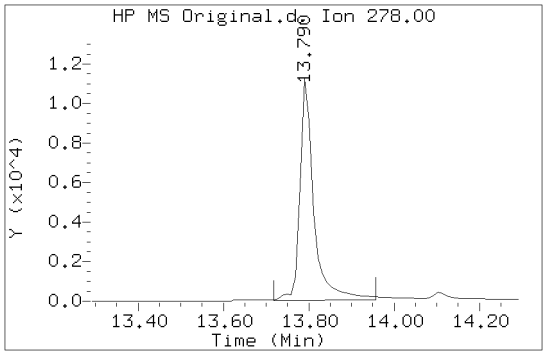


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

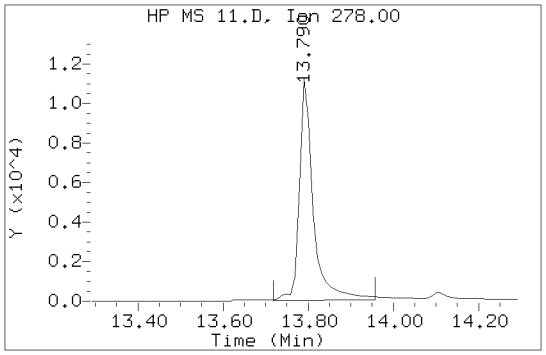
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10:16
linh
pham



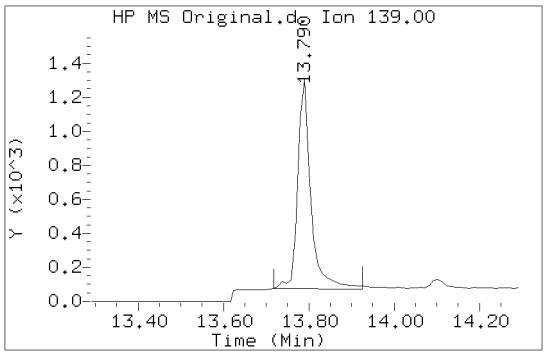
AFTER

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HEIGHT
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18-Dec-2023
10:16
linh
pham



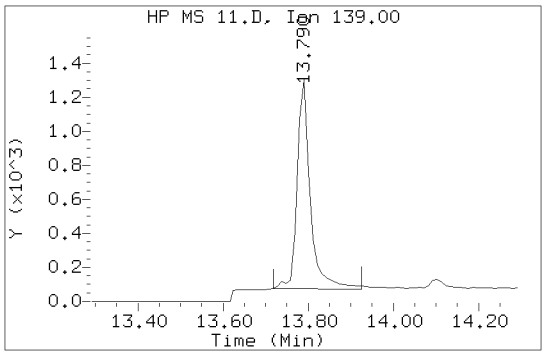
BEFORE

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AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



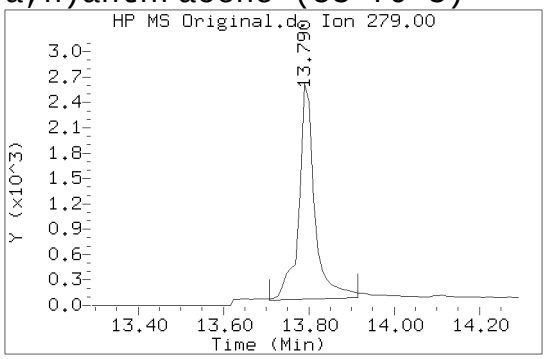
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

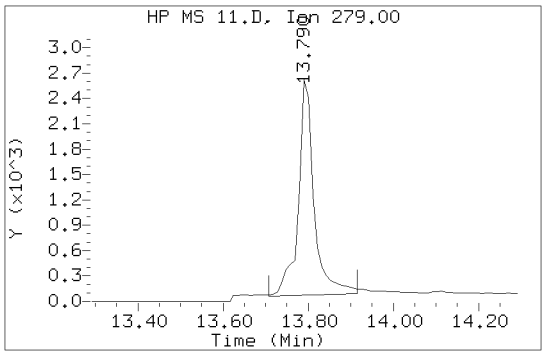
BEFORE

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AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham

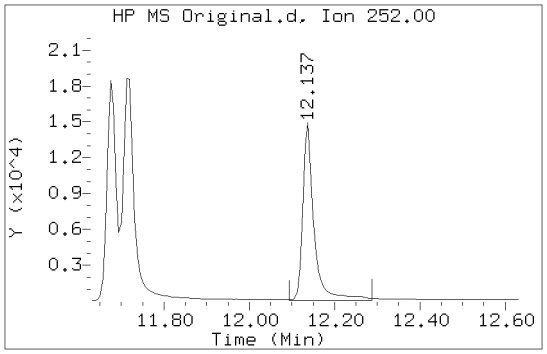


Benzo(a)pyrene (50-32-8)

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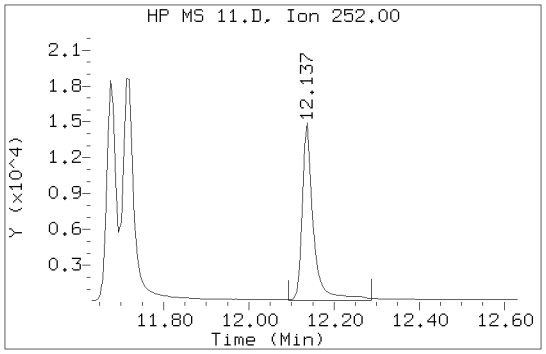
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HEIGHT
14841
18-Dec-2023
10:16
linh
pham



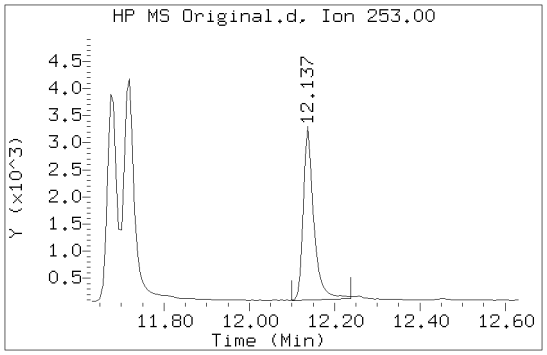
AFTER

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HEIGHT
14841
18-Dec-2023
10:16
linh
pham



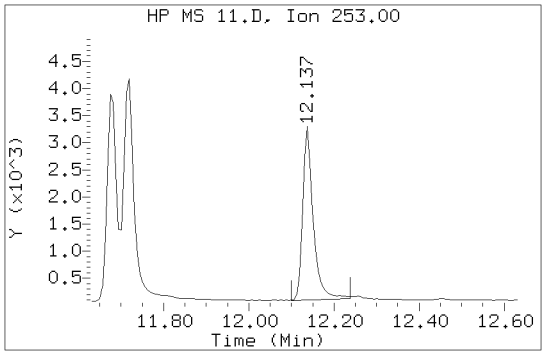
BEFORE

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AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



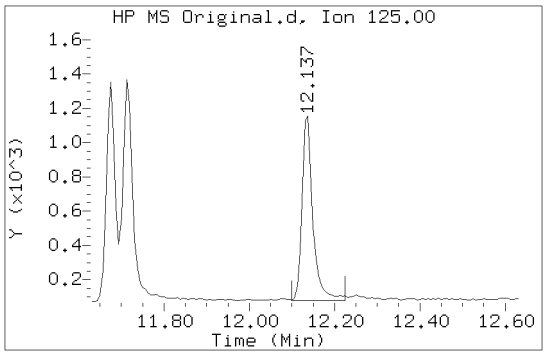
AFTER

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pham



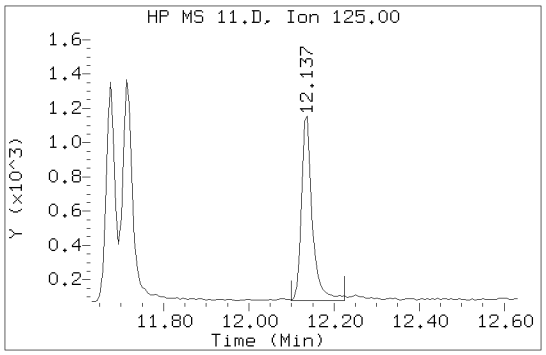
BEFORE

MASS
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AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
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pham



AFTER

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



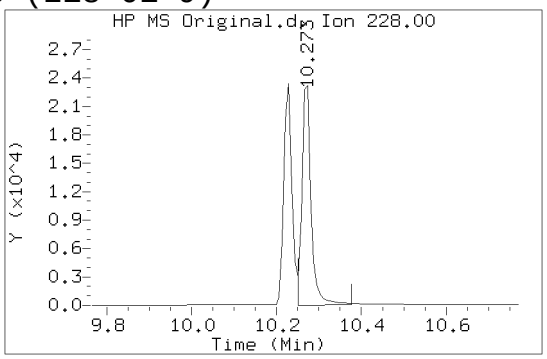
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene (218-01-9)

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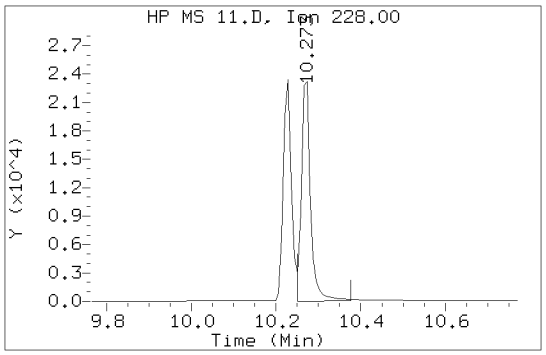
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HEIGHT
23168
18-Dec-2023
10:16
linh
pham



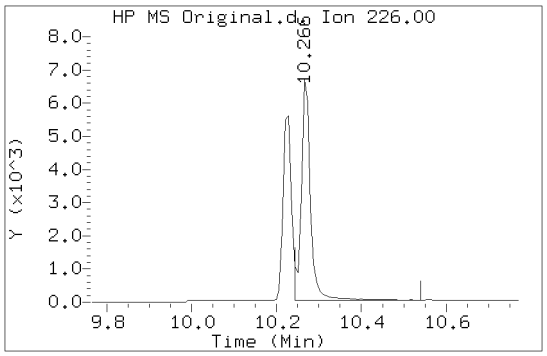
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10:16
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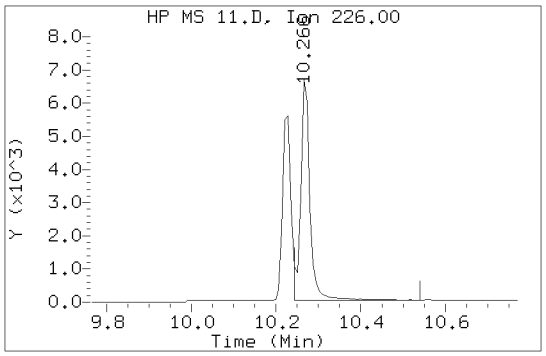
BEFORE

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AREA
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HEIGHT
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18-Dec-2023
10:16
linh
pham



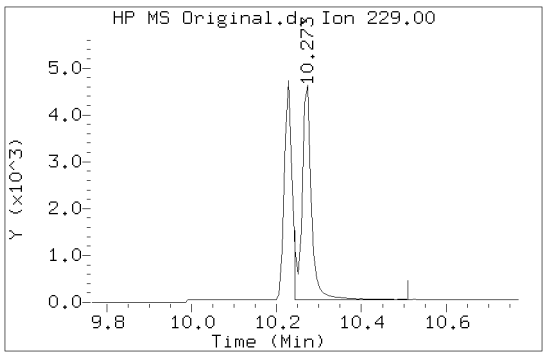
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18-Dec-2023
10:16
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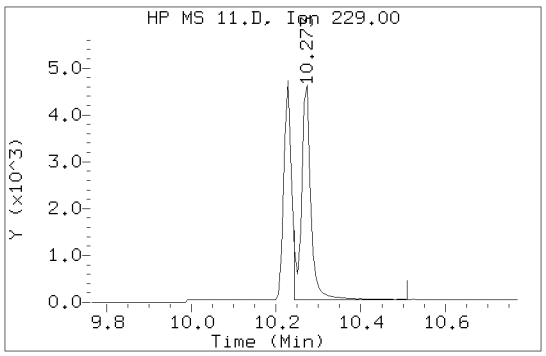
BEFORE

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
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linh
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AFTER

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham

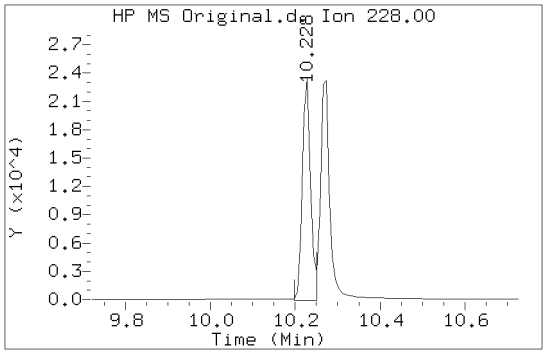


Benzo(a)Anthracene (56-55-3)

Reason Code:

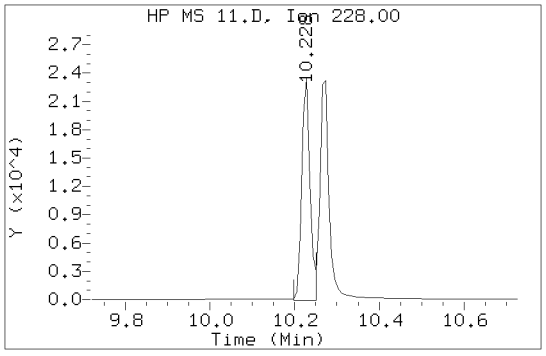
BEFORE

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



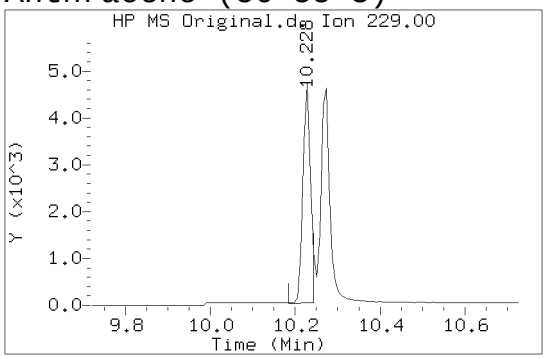
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InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Benzo(a)Anthracene (56-55-3)

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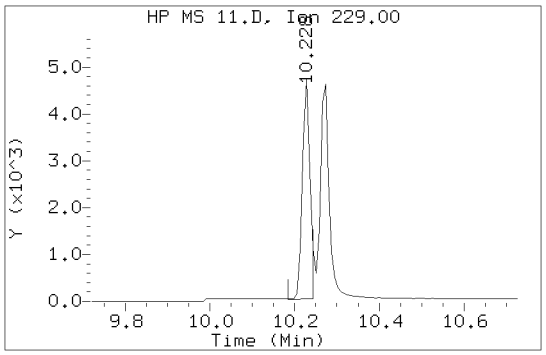
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18-Dec-2023
10:16
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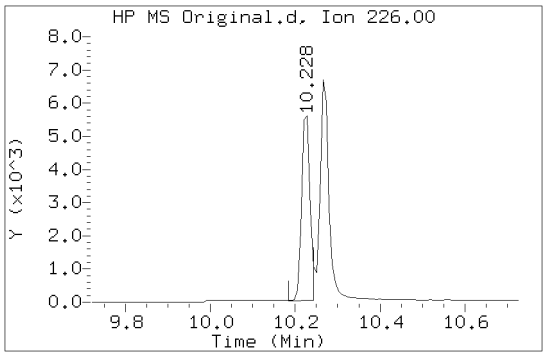
AFTER

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linh
pham



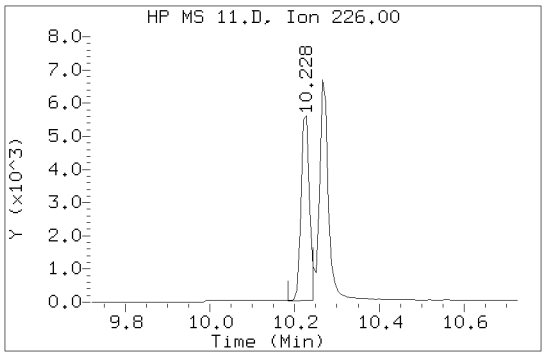
BEFORE

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7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham



AFTER

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7676
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5565
18-Dec-2023
10:16
linh
pham

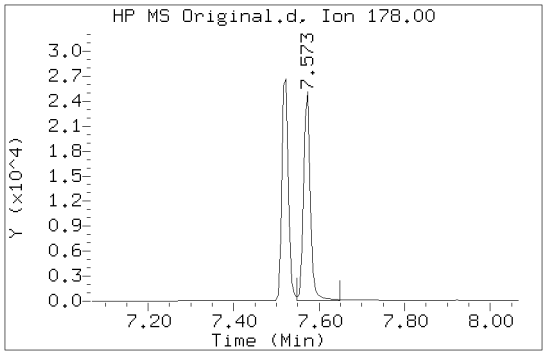


Anthracene (120-12-7)

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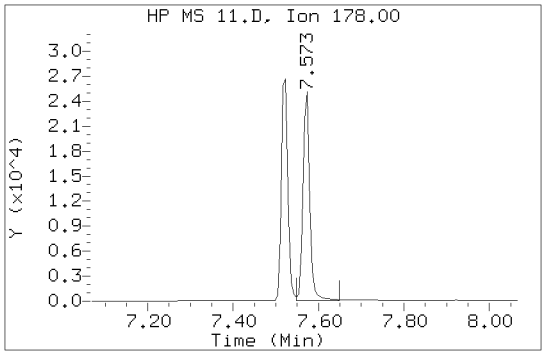
BEFORE

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



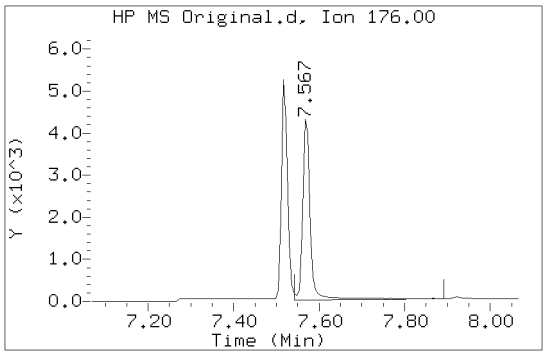
AFTER

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



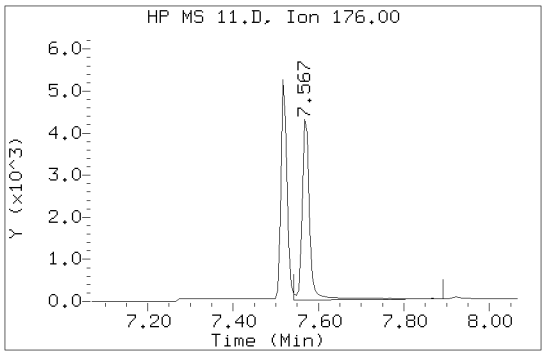
BEFORE

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HEIGHT
4301
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



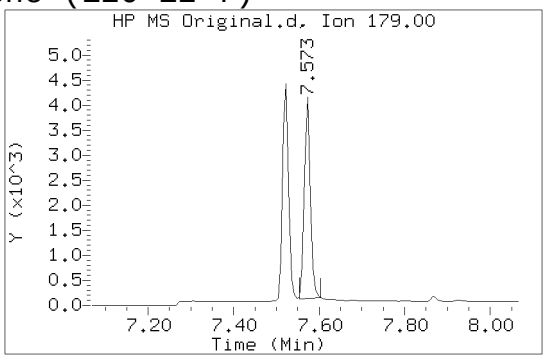
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Anthracene (120-12-7)

Reason Code:

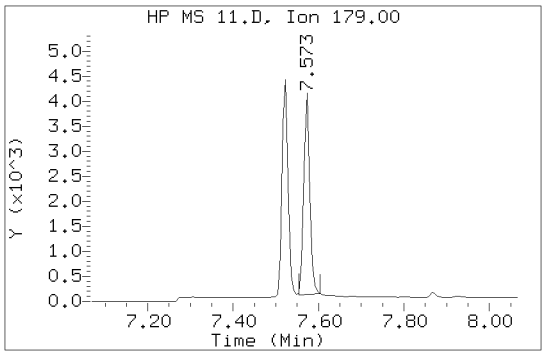
BEFORE

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

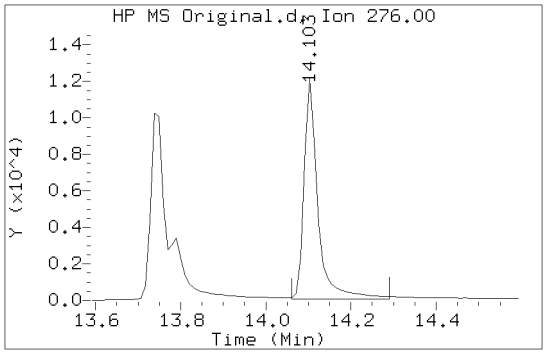


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

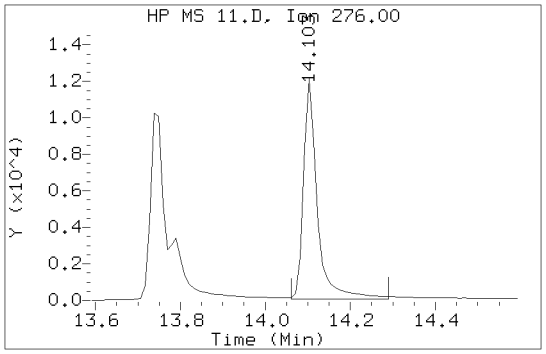
BEFORE

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



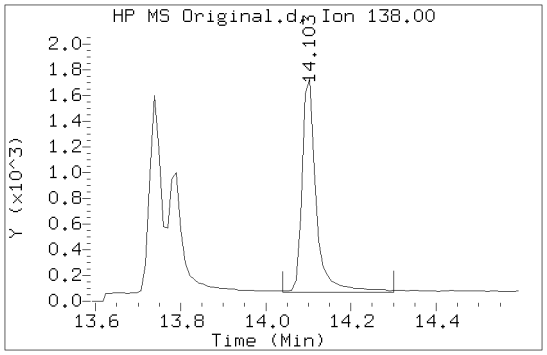
AFTER

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



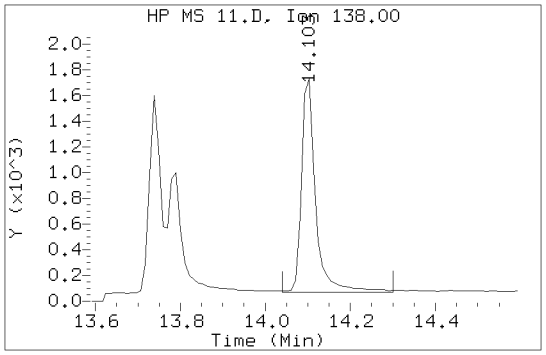
BEFORE

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



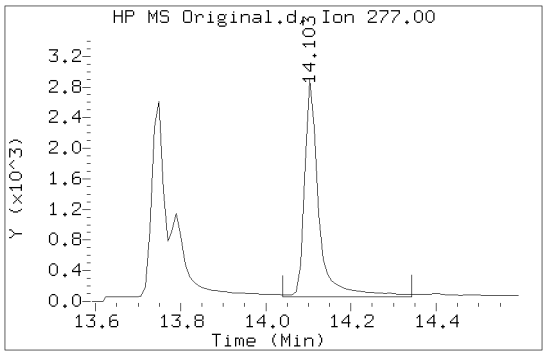
AFTER

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



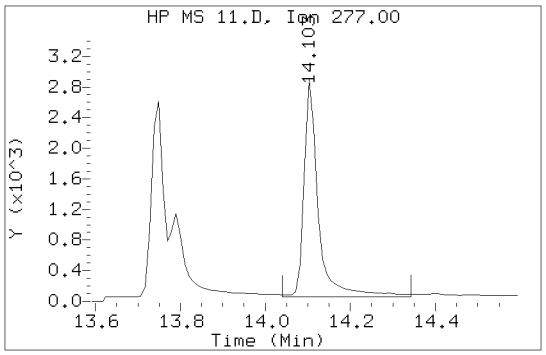
BEFORE

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



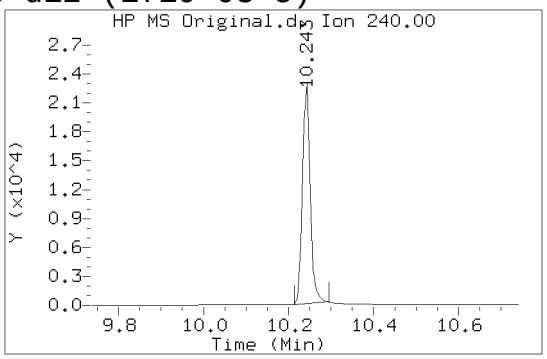
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

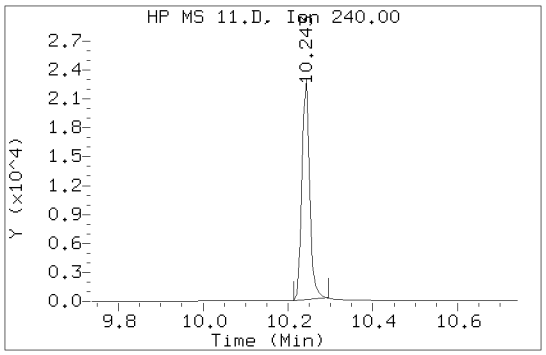
BEFORE

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



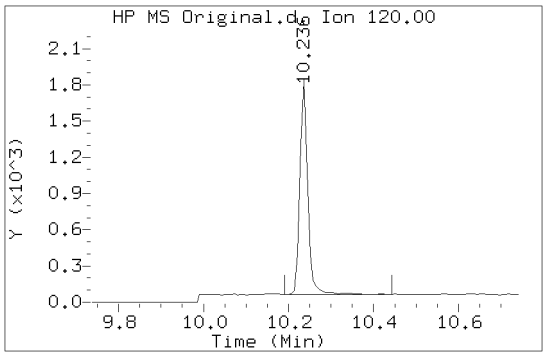
AFTER

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



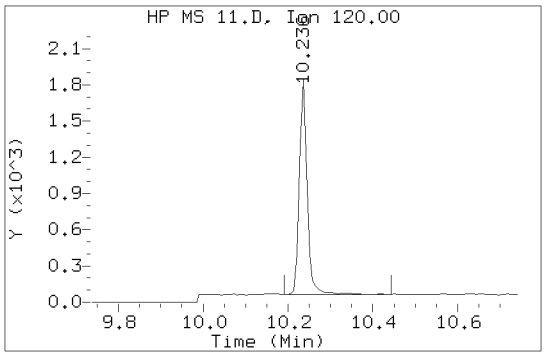
BEFORE

MASS
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AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



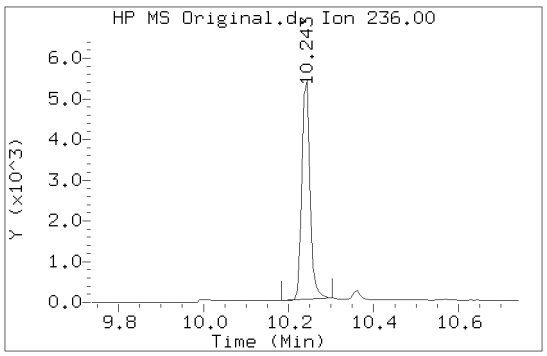
AFTER

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



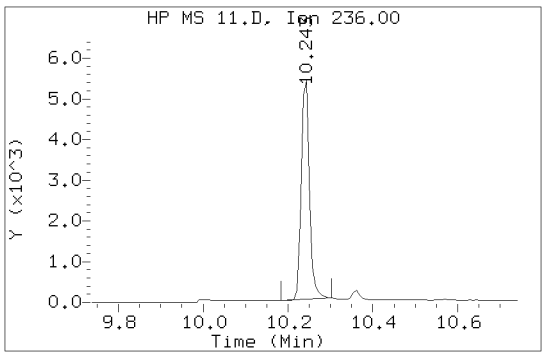
BEFORE

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

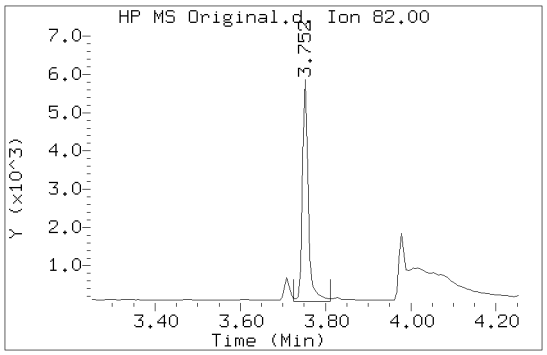


Nitrobenzene-d5 (4165-60-0)

Reason Code:

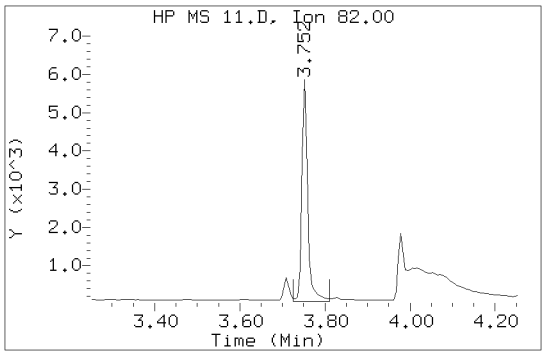
BEFORE

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



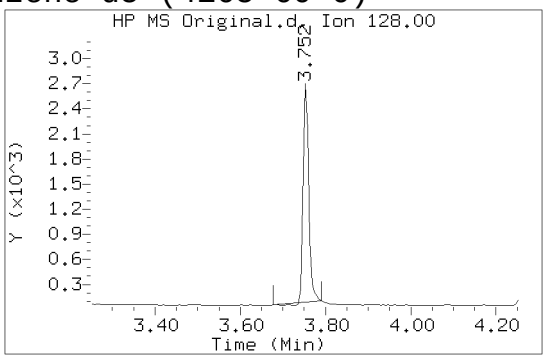
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

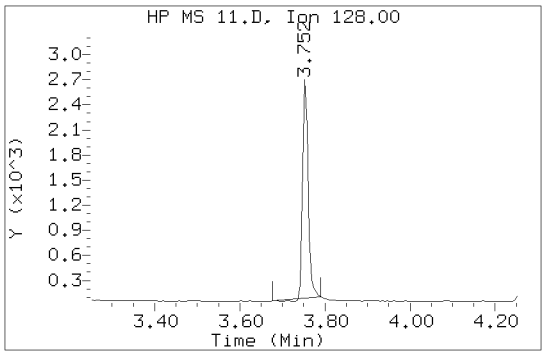
BEFORE

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



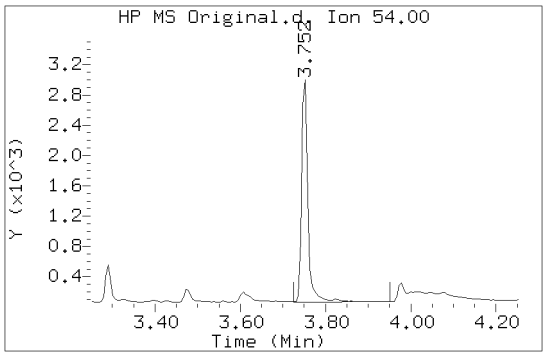
AFTER

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



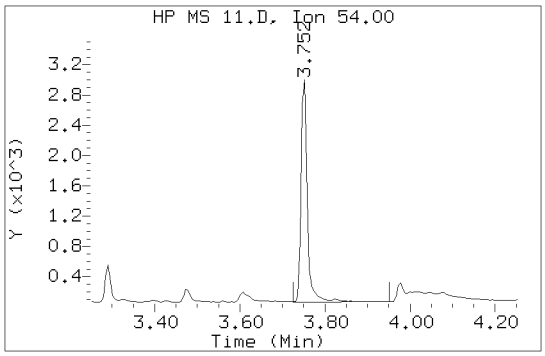
BEFORE

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



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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\SV6.i\240531.b\01.D Page 1
Report Date: 31-May-2024 12:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 31-MAY-2024 12:21
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.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		
4.790	5.571	-0.781	198	168704			0.00- 100.00	100.00
4.790	6.357	-1.567	51	53266			10.00- 80.00	31.57
4.790	6.357	-1.567	68	1064			0.00- 2.00	1.75
4.790	6.357	-1.567	69	60952			0.00- 0.00	36.13
4.790	6.357	-1.567	70	315			0.00- 2.00	0.52
4.790	6.357	-1.567	127	74656			10.00- 80.00	44.25
4.790	6.357	-1.567	197	0	0.0	0.0	0.00- 2.00	0.00
4.790	6.357	-1.567	199	12691			5.00- 9.00	7.52
4.790	6.357	-1.567	275	42112			10.00- 60.00	24.96
4.790	6.357	-1.567	365	5169			1.00- 100.00	3.06
4.790	6.357	-1.567	441	20552			0.01- 99.99	69.23
4.790	6.357	-1.567	442	146560			50.00- 150.00	86.87
4.790	6.357	-1.567	443	29688			15.00- 24.00	20.26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.63 (1.75)
69	Mass 69 relative abundance	36.13
70	Less than 2.00% of mass 69	0.19 (0.52)
127	10.00 - 80.00% of mass 198	44.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.52
275	10.00 - 60.00% of mass 198	24.96
365	1.00 - 100.00% of mass 198	3.06
441	Present, but less than mass 443	12.18
442	50.00 - 150.00% of mass 198	86.87
443	15.00 - 24.00% of mass 442	17.60 (20.26)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	201	125.00	992	197.90	168704	284.00	217
38.00	628	127.00	74656	199.00	12691	285.00	503
39.10	3463	128.00	5915	199.80	805	291.90	188
39.90	227	129.00	27312	201.40	1024	293.00	792
41.00	308	130.00	2561	202.90	1294	293.80	204
49.10	323	130.90	516	204.00	5269	295.90	9951
50.10	14791	131.80	325	205.00	9873	296.90	1289
51.10	53264	134.00	666	206.00	40160	298.40	343
52.00	2769	134.90	2449	207.00	6011	302.00	276
55.00	249	135.90	970	208.00	1492	303.00	1584
55.90	1491	137.10	1075	209.00	368	304.00	200
57.00	4015	138.10	253	210.50	1792	307.80	230
58.00	297	138.80	246	211.00	1781	309.90	295
61.10	853	140.00	396	212.10	184	311.70	160
62.00	789	141.00	3509	215.00	618	313.00	219
63.00	2220	142.00	1471	216.10	848	313.80	685
64.00	543	143.00	891	217.00	10384	315.10	1150
65.00	1057	143.90	274	217.80	1362	315.90	714
66.00	162	144.90	325	219.00	323	321.10	346
68.00	1064	145.90	604	221.00	9142	321.80	243
69.00	60952	147.00	2017	222.00	1533	323.00	3566
70.10	315	148.00	3368	223.00	2721	324.00	909
73.00	546	149.10	790	224.00	23288	326.90	762
74.00	6041	151.20	609	225.00	6141	327.80	401
75.00	9008	151.90	341	225.90	566	332.00	177
76.10	2846	153.00	1200	227.00	8040	332.90	389
77.00	66264	153.90	918	227.80	1034	334.00	2293
78.00	4173	155.00	1909	228.90	1921	335.00	748
79.00	4258	156.00	3408	229.90	361	340.80	342
80.00	3604	156.90	739	230.90	639	345.90	910
81.00	4696	157.90	691	232.80	240	347.00	205
81.90	1250	159.00	613	234.00	368	352.00	970
83.00	908	160.00	1113	235.00	522	353.00	866
84.00	87	161.00	2022	235.90	472	354.00	1116
85.00	817	162.00	520	236.90	572	354.90	291
86.00	1185	163.10	222	238.90	735	365.00	5169
87.00	466	164.00	169	240.10	315	365.90	648
88.00	276	164.90	1199	241.00	469	370.90	230
88.90	181	166.00	1023	242.00	982	371.90	1764
91.00	1096	167.00	6082	243.00	1705	372.90	384
92.00	1424	167.90	3395	244.00	19240	382.50	224
93.00	7432	168.90	718	245.00	3202	383.00	414
94.00	723	170.10	508	245.90	3438	383.80	189
96.10	458	171.00	505	246.90	604	390.90	270
98.00	4920	172.00	631	249.00	562	391.90	189

99.00	4189	173.00	818	251.00	156	400.80	269
99.80	545	174.00	1749	252.00	392	401.90	835
101.00	3011	175.00	3157	253.10	487	403.00	1113
102.90	1082	175.90	740	255.00	94336	403.90	527
104.00	1726	177.00	1357	256.00	14697	421.00	1197
105.00	1560	177.90	826	256.90	1356	422.00	1044
106.10	536	178.90	5024	258.00	4717	423.00	7273
107.00	20648	180.00	3809	259.00	861	423.90	1941
108.10	3383	180.90	1878	260.00	198	425.00	168
108.90	649	182.00	325	264.90	1776	436.40	209
110.00	38624	183.90	627	265.90	593	437.70	221
111.00	6181	185.00	2931	271.60	316	439.20	389
112.00	1023	186.00	20968	272.10	393	441.00	20552
113.00	366	187.00	6224	273.00	3302	442.00	146560
116.00	1533	188.00	732	274.00	7158	443.00	29688
117.00	14033	188.80	1000	275.00	42112	444.00	2990
118.00	1132	191.00	442	276.00	5628	444.80	189
120.00	325	192.00	2071	277.00	3171		
122.00	1534	193.00	2076	278.00	671		
122.90	1391	194.00	451	280.80	183		
123.90	937	196.00	5381	282.90	418		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 1

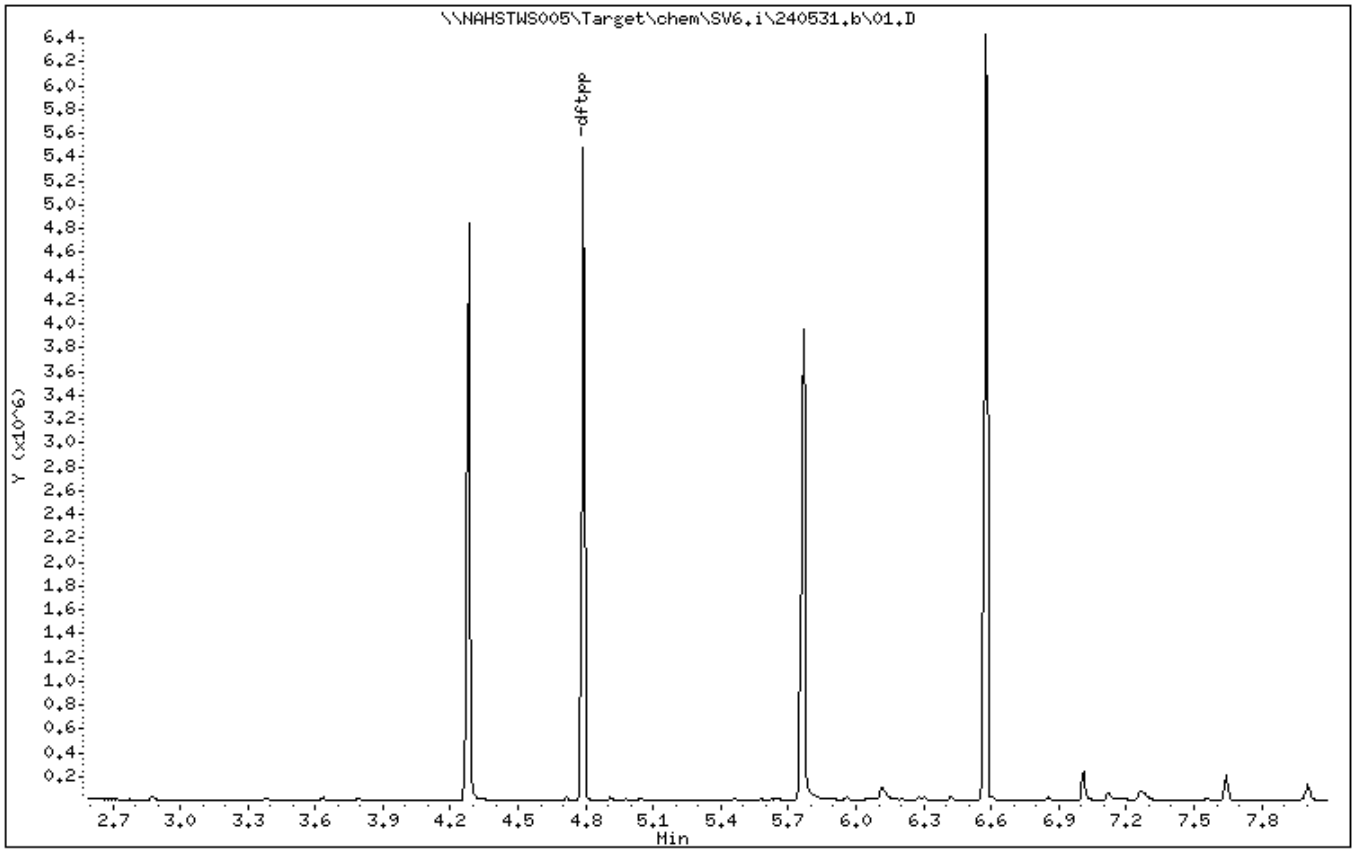
Date : 31-MAY-2024 12:21

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\240531.b\01.D Page 2

Date : 31-MAY-2024 12:21

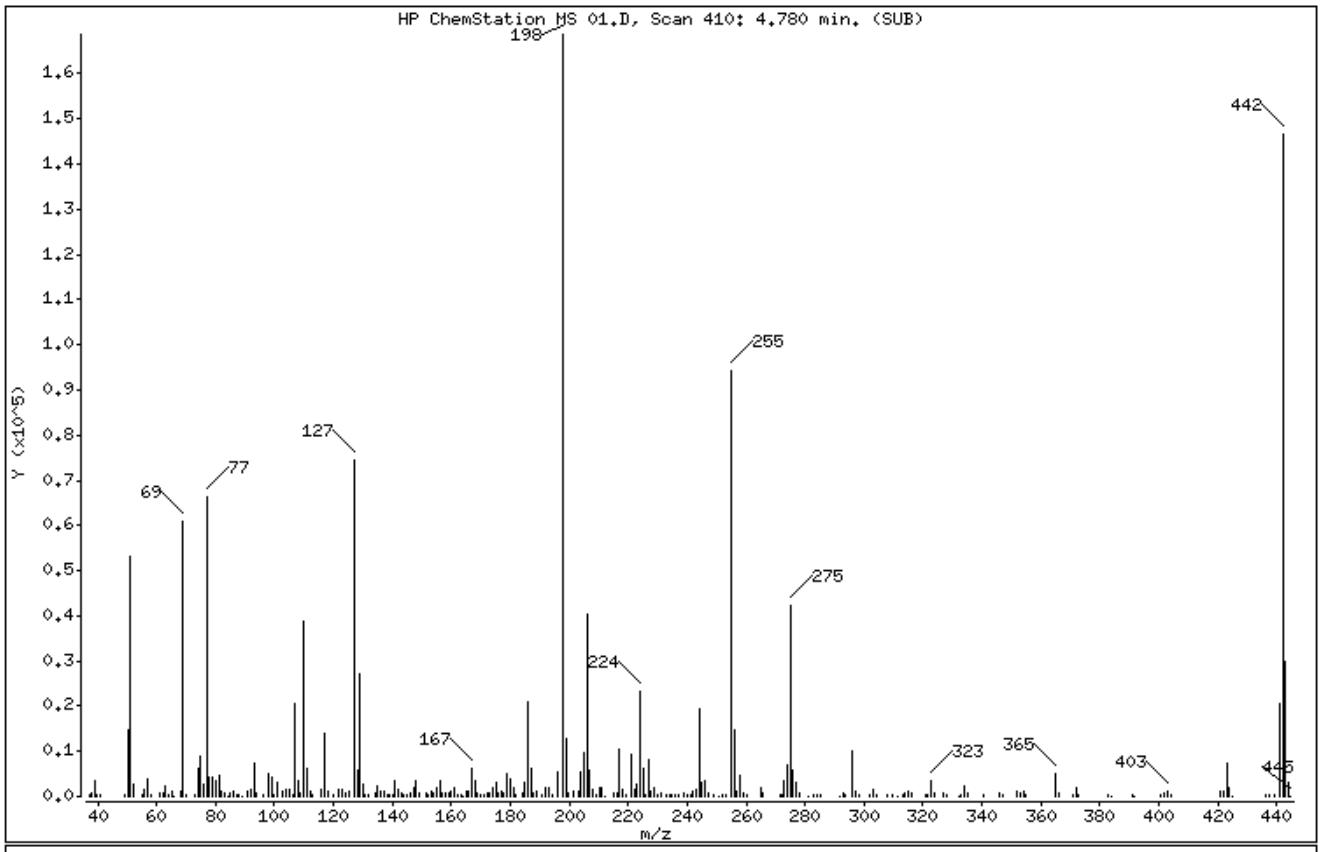
Client ID: DFTPP Instrument: SV6.i

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	31.57
68	Less than 2.00% of mass 69	0.63 (1.75)
69	Mass 69 relative abundance	36.13
70	Less than 2.00% of mass 69	0.19 (0.52)
127	10.00 - 80.00% of mass 198	44.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.52
275	10.00 - 60.00% of mass 198	24.96
365	1.00 - 100.00% of mass 198	3.06
441	Present, but less than mass 443	12.18
442	50.00 - 150.00% of mass 198	86.87
443	15.00 - 24.00% of mass 442	17.60 (20.26)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 3

Date : 31-MAY-2024 12:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	201	125.00	992	197.90	168704	284.00	217
38.00	628	127.00	74656	199.00	12691	285.00	503
39.10	3463	128.00	5915	199.80	805	291.90	188
39.90	227	129.00	27312	201.40	1024	293.00	792
41.00	308	130.00	2561	202.90	1294	293.80	204
49.10	323	130.90	516	204.00	5269	295.90	9951
50.10	14791	131.80	325	205.00	9873	296.90	1289
51.10	53264	134.00	666	206.00	40160	298.40	343
52.00	2769	134.90	2449	207.00	6011	302.00	276
55.00	249	135.90	970	208.00	1492	303.00	1584
55.90	1491	137.10	1075	209.00	368	304.00	200
57.00	4015	138.10	253	210.50	1792	307.80	230
58.00	297	138.80	246	211.00	1781	309.90	295
61.10	853	140.00	396	212.10	184	311.70	160
62.00	789	141.00	3509	215.00	618	313.00	219
63.00	2220	142.00	1471	216.10	848	313.80	685
64.00	543	143.00	891	217.00	10384	315.10	1150
65.00	1057	143.90	274	217.80	1362	315.90	714
66.00	162	144.90	325	219.00	323	321.10	346
68.00	1064	145.90	604	221.00	9142	321.80	243
69.00	60952	147.00	2017	222.00	1533	323.00	3566
70.10	315	148.00	3368	223.00	2721	324.00	909
73.00	546	149.10	790	224.00	23288	326.90	762
74.00	6041	151.20	609	225.00	6141	327.80	401
75.00	9008	151.90	341	225.90	566	332.00	177
76.10	2846	153.00	1200	227.00	8040	332.90	389
77.00	66264	153.90	918	227.80	1034	334.00	2293
78.00	4173	155.00	1909	228.90	1921	335.00	748
79.00	4258	156.00	3408	229.90	361	340.80	342
80.00	3604	156.90	739	230.90	639	345.90	910
81.00	4696	157.90	691	232.80	240	347.00	205
81.90	1250	159.00	613	234.00	368	352.00	970
83.00	908	160.00	1113	235.00	522	353.00	866
84.00	87	161.00	2022	235.90	472	354.00	1116
85.00	817	162.00	520	236.90	572	354.90	291

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 4

Date : 31-MAY-2024 12:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	1185	163.10	222	238.90	735	365.00	5169
87.00	466	164.00	169	240.10	315	365.90	648
88.00	276	164.90	1199	241.00	469	370.90	230
88.90	181	166.00	1023	242.00	982	371.90	1764
91.00	1096	167.00	6082	243.00	1705	372.90	384
92.00	1424	167.90	3395	244.00	19240	382.50	224
93.00	7432	168.90	718	245.00	3202	383.00	414
94.00	723	170.10	508	245.90	3438	383.80	189
96.10	458	171.00	505	246.90	604	390.90	270
98.00	4920	172.00	631	249.00	562	391.90	189
99.00	4189	173.00	818	251.00	156	400.80	269
99.80	545	174.00	1749	252.00	392	401.90	835
101.00	3011	175.00	3157	253.10	487	403.00	1113
102.90	1082	175.90	740	255.00	94336	403.90	527
104.00	1726	177.00	1357	256.00	14697	421.00	1197
105.00	1560	177.90	826	256.90	1356	422.00	1044
106.10	536	178.90	5024	258.00	4717	423.00	7273
107.00	20648	180.00	3809	259.00	861	423.90	1941
108.10	3383	180.90	1878	260.00	198	425.00	168
108.90	649	182.00	325	264.90	1776	436.40	209
110.00	38624	183.90	627	265.90	593	437.70	221
111.00	6181	185.00	2931	271.60	316	439.20	389
112.00	1023	186.00	20968	272.10	393	441.00	20552
113.00	366	187.00	6224	273.00	3302	442.00	146560
116.00	1533	188.00	732	274.00	7158	443.00	29688
117.00	14033	188.80	1000	275.00	42112	444.00	2990
118.00	1132	191.00	442	276.00	5628	444.80	189
120.00	325	192.00	2071	277.00	3171		
122.00	1534	193.00	2076	278.00	671		
122.90	1391	194.00	451	280.80	183		
123.90	937	196.00	5381	282.90	418		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D Page 1
Report Date: 31-May-2024 14:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 31-MAY-2024 14:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

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	2.685	2.685	(1.000)	2730	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	9039	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	2136	0.08000	0.07872(QM)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5721	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	6671	0.08000	0.07628(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	10746	0.10000	(M)
* 182 Chrysene-d12	240	9.456	9.456	(1.000)	7872	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.354	8.354	(0.883)	10921	0.08000	0.06810(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	9436	0.10000	(M)
1 1,4-Dioxane	58	1.275	1.275	(0.475)	478	0.08000	0.08174(M)

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\240531.b\03A.D

Date : 31-MAY-2024 14:08

Client ID: 14DX-0.08

Instrument: SV6.i

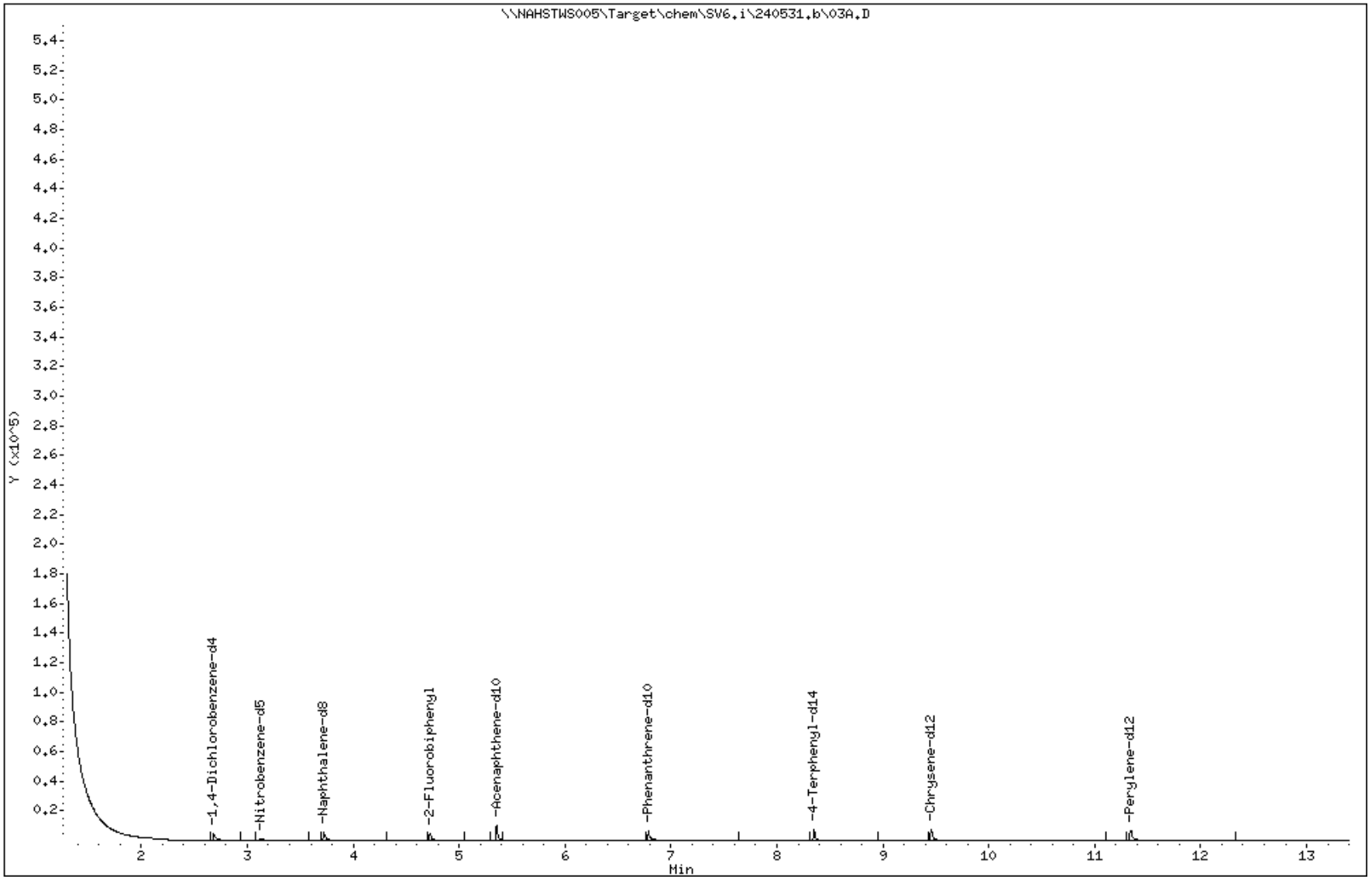
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



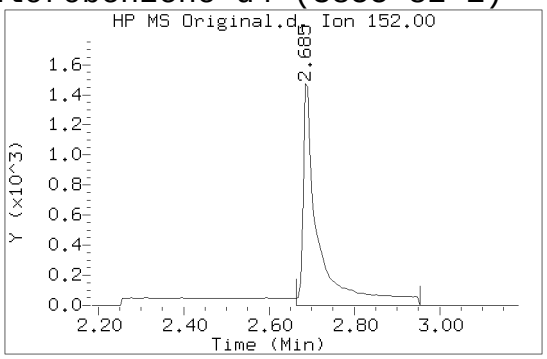
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

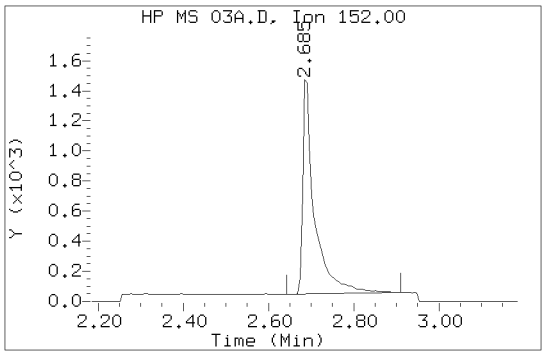
BEFORE

MASS
152
AREA
3686
HEIGHT
1474
31-May-2024
14:23
marco
gutierrez



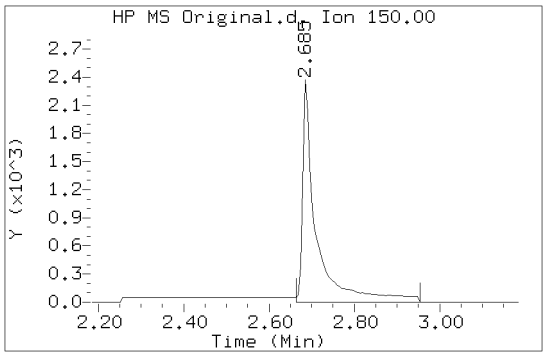
AFTER

MASS
152
AREA
2730
HEIGHT
1424
31-May-2024
14:28
marco
gutierrez



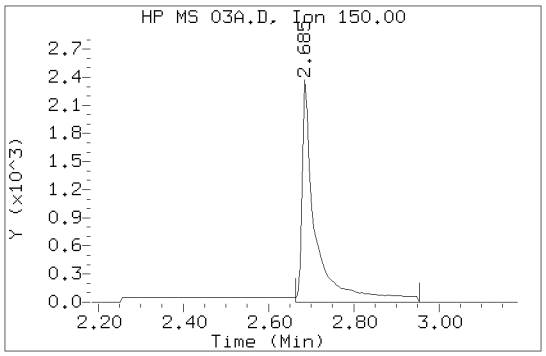
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AREA
5283
HEIGHT
2371
31-May-2024
14:23
marco
gutierrez



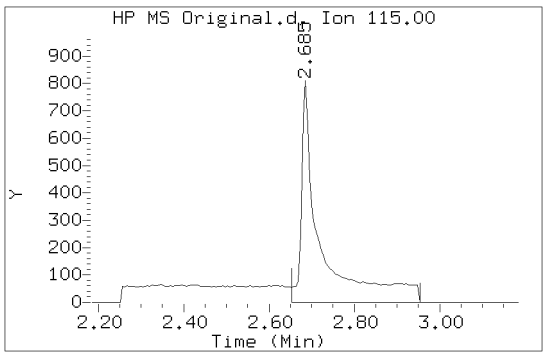
AFTER

MASS
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AREA
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HEIGHT
2371
31-May-2024
14:28
marco
gutierrez



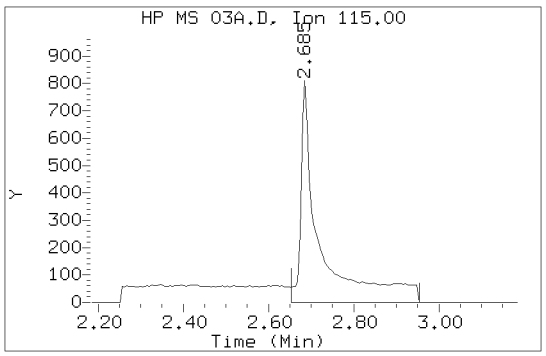
BEFORE

MASS
115
AREA
2487
HEIGHT
810
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
115
AREA
2487
HEIGHT
810
31-May-2024
14:28
marco
gutierrez

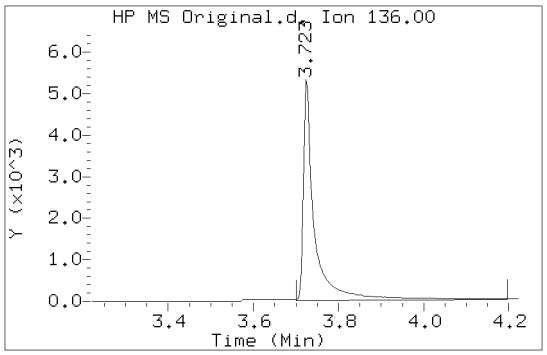


Naphthalene-d8 (1146-65-2)

Reason Code:

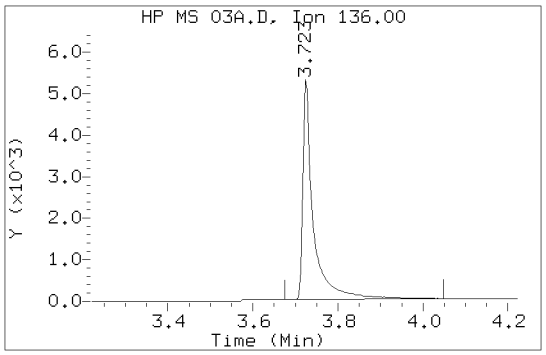
BEFORE

MASS
136
AREA
9906
HEIGHT
5325
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
136
AREA
9039
HEIGHT
5288
31-May-2024
14:28
marco
gutierrez



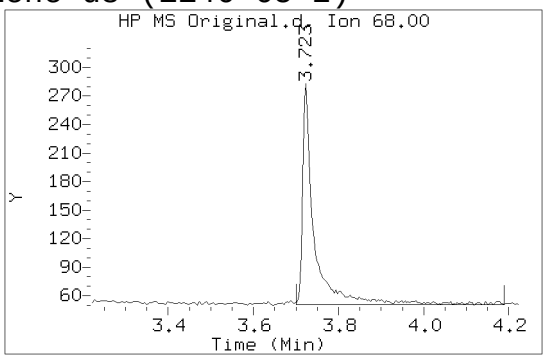
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

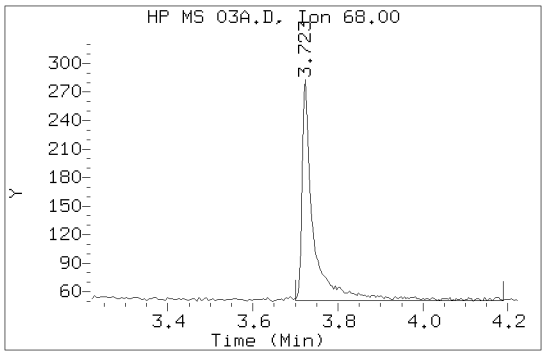
BEFORE

MASS
68
AREA
441
HEIGHT
232
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
68
AREA
441
HEIGHT
232
31-May-2024
14:28
marco
gutierrez

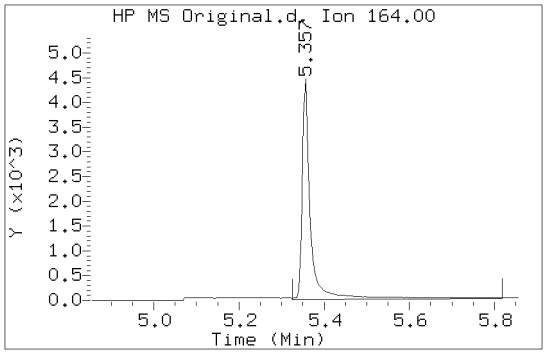


Acenaphthene-d10 (15067-26-2)

Reason Code:

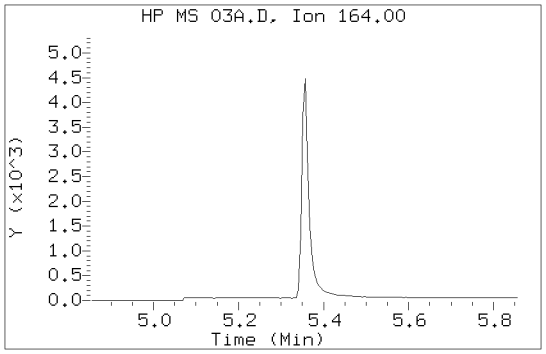
BEFORE

MASS
164
AREA
6177
HEIGHT
4460
31-May-2024
14:23
marco
gutierrez



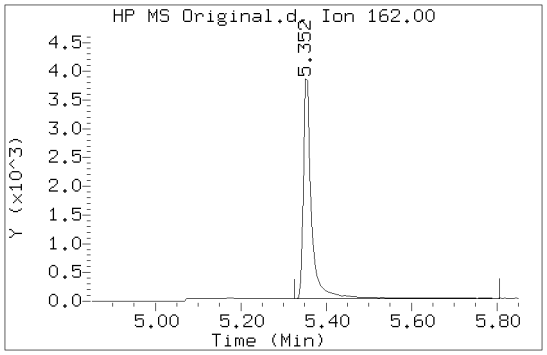
AFTER

MASS
164
AREA
5721
HEIGHT
4433
31-May-2024
14:28
marco
gutierrez



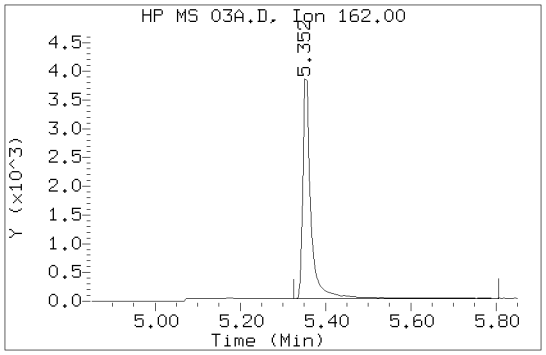
BEFORE

MASS
162
AREA
5202
HEIGHT
3820
31-May-2024
14:23
marco
gutierrez



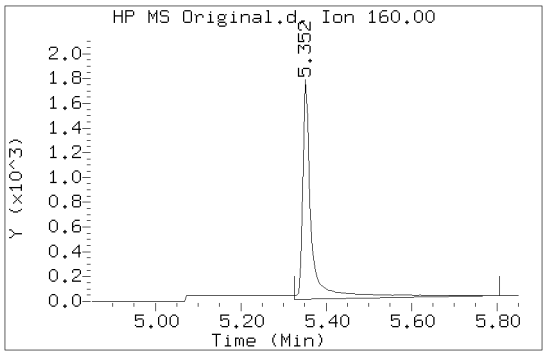
AFTER

MASS
162
AREA
5202
HEIGHT
3820
31-May-2024
14:28
marco
gutierrez



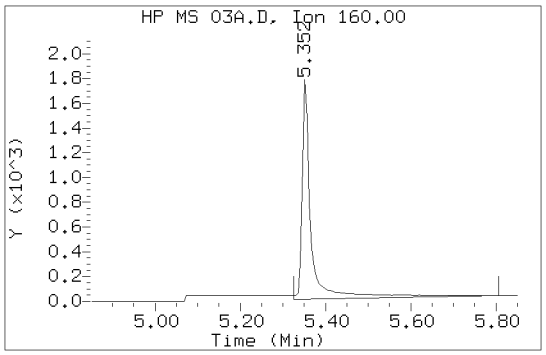
BEFORE

MASS
160
AREA
2664
HEIGHT
1772
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
160
AREA
2664
HEIGHT
1772
31-May-2024
14:28
marco
gutierrez



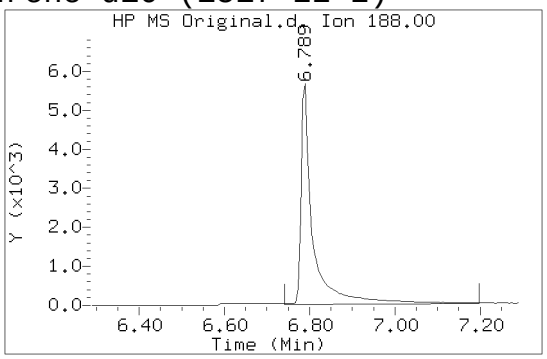
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

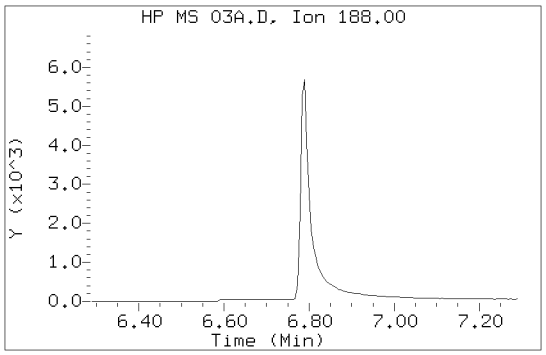
BEFORE

MASS
188
AREA
11208
HEIGHT
5664
31-May-2024
14:23
marco
gutierrez



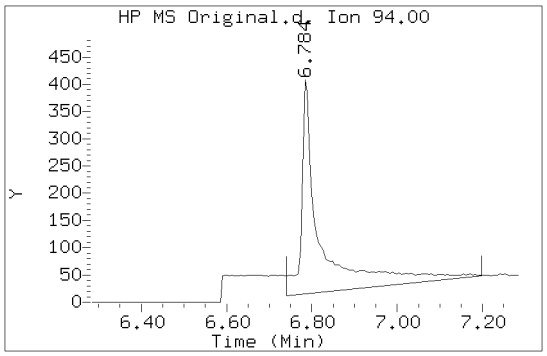
AFTER

MASS
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AREA
10746
HEIGHT
5636
31-May-2024
14:28
marco
gutierrez



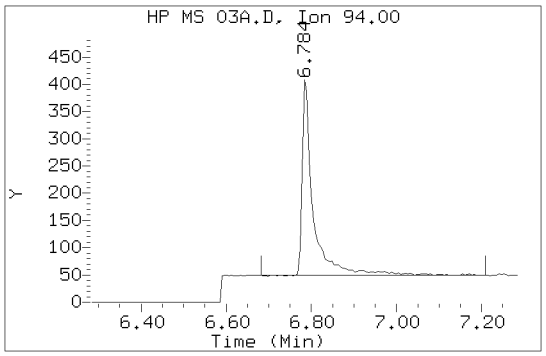
BEFORE

MASS
94
AREA
1193
HEIGHT
392
31-May-2024
14:23
marco
gutierrez



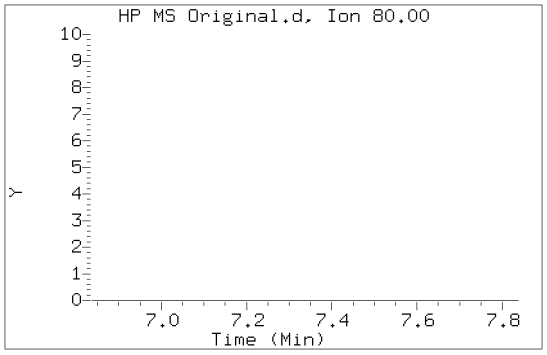
AFTER

MASS
94
AREA
664
HEIGHT
359
31-May-2024
14:28
marco
gutierrez



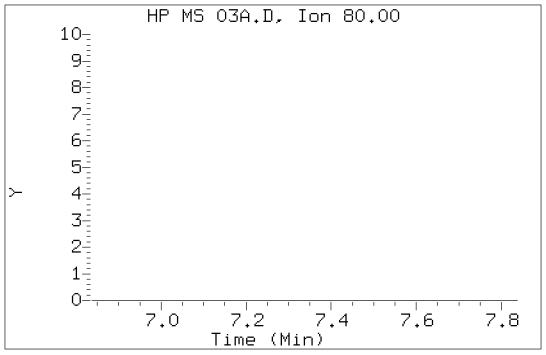
BEFORE

MASS
80
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
80
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez

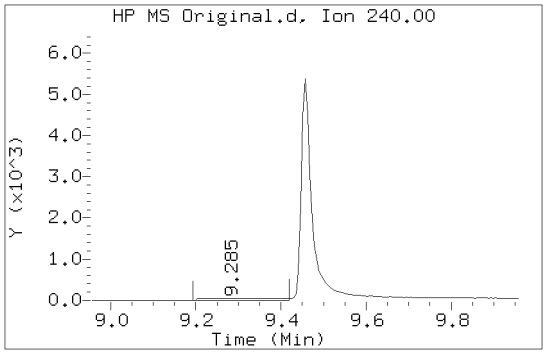


Chrysene-d12 (1719-03-5)

Reason Code:

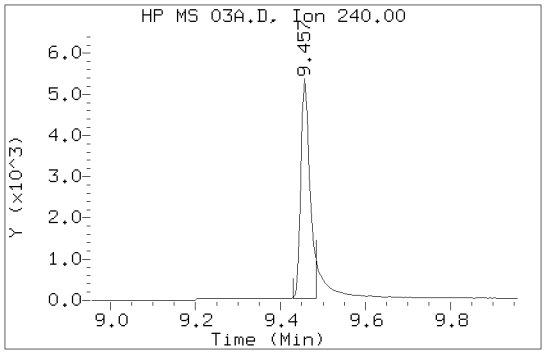
BEFORE

MASS
240
AREA
606
HEIGHT
47
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
240
AREA
7872
HEIGHT
5333
31-May-2024
14:28
marco
gutierrez



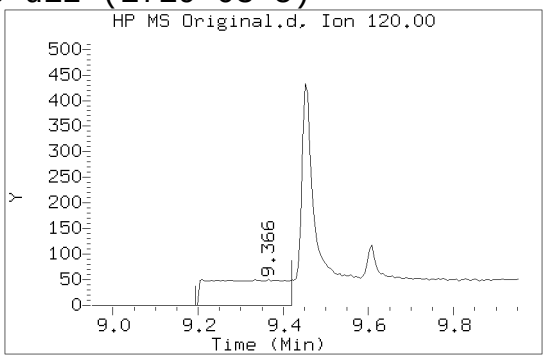
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

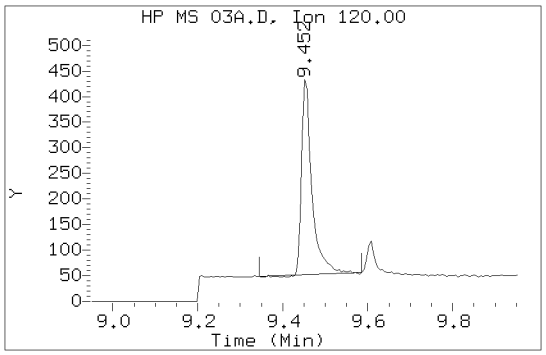
BEFORE

MASS
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AREA
641
HEIGHT
51
31-May-2024
14:23
marco
gutierrez



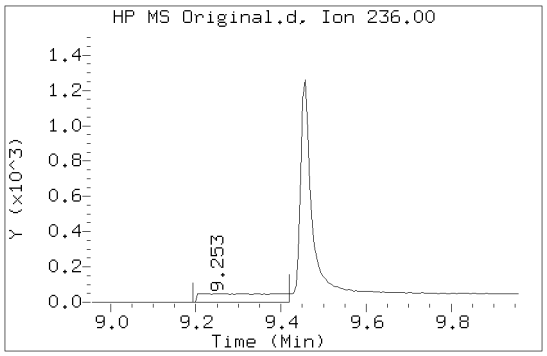
AFTER

MASS
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HEIGHT
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31-May-2024
14:28
marco
gutierrez



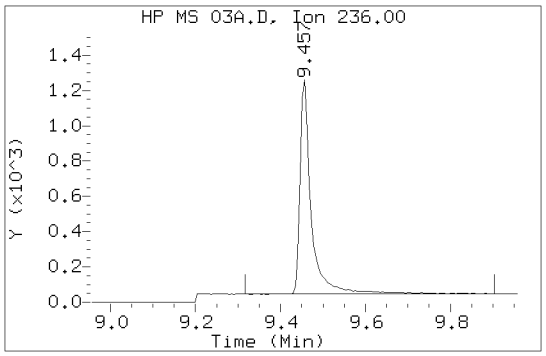
BEFORE

MASS
236
AREA
607
HEIGHT
47
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
236
AREA
2210
HEIGHT
1213
31-May-2024
14:28
marco
gutierrez

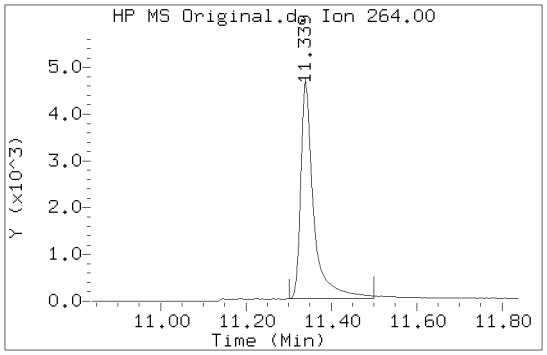


Perylene-d12 (1520-96-3)

Reason Code:

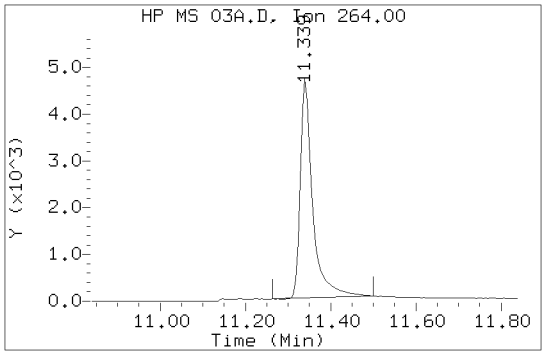
BEFORE

MASS
264
AREA
9883
HEIGHT
4702
31-May-2024
14:23
marco
gutierrez



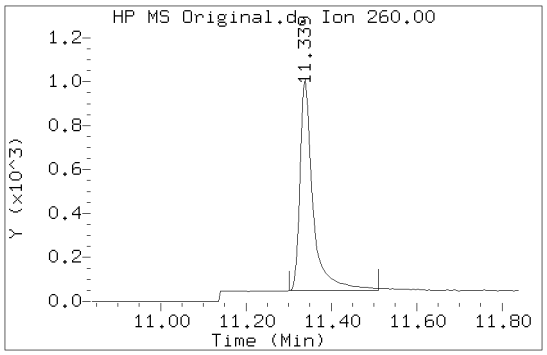
AFTER

MASS
264
AREA
9436
HEIGHT
4682
31-May-2024
14:28
marco
gutierrez



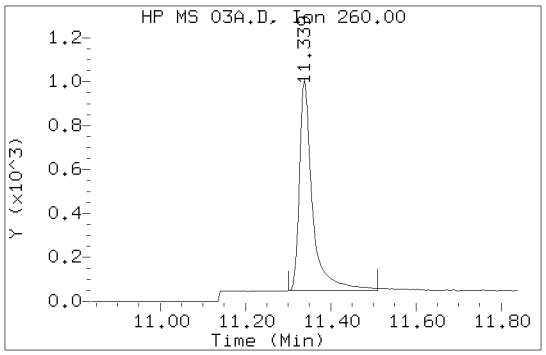
BEFORE

MASS
260
AREA
2052
HEIGHT
960
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
260
AREA
2052
HEIGHT
960
31-May-2024
14:28
marco
gutierrez



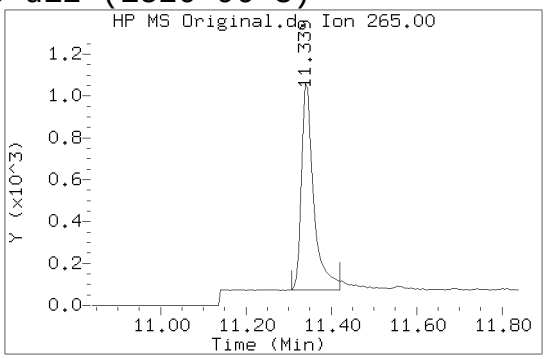
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

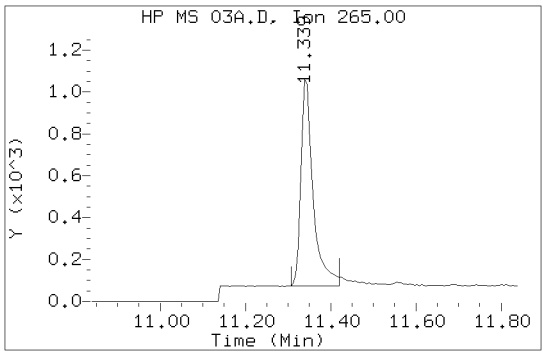
BEFORE

MASS
265
AREA
1974
HEIGHT
985
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
265
AREA
1974
HEIGHT
985
31-May-2024
14:28
marco
gutierrez

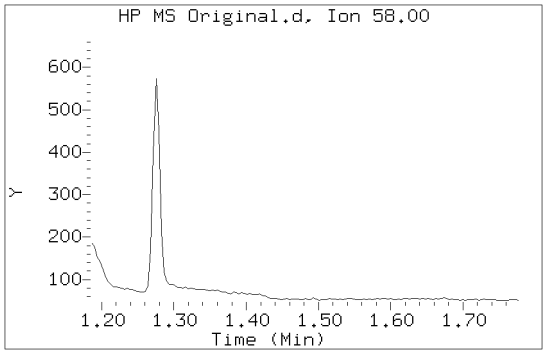


1,4-Dioxane ()

Reason Code:

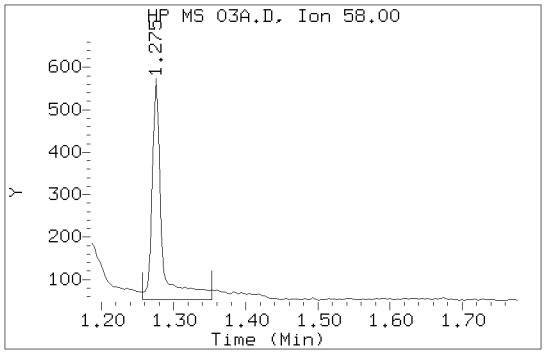
BEFORE

MASS
58
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



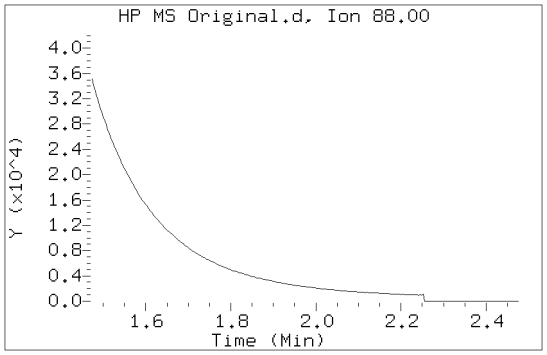
AFTER

MASS
58
AREA
478
HEIGHT
520
31-May-2024
14:28
marco
gutierrez



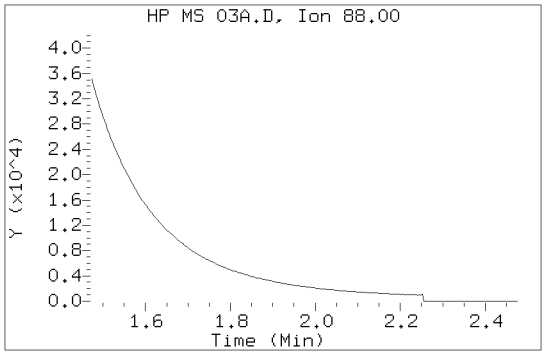
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez

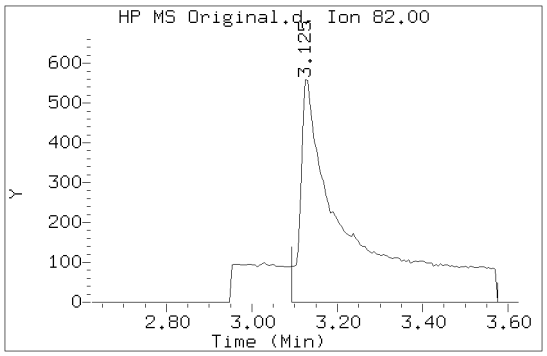


Nitrobenzene-d5 (4165-60-0)

Reason Code:

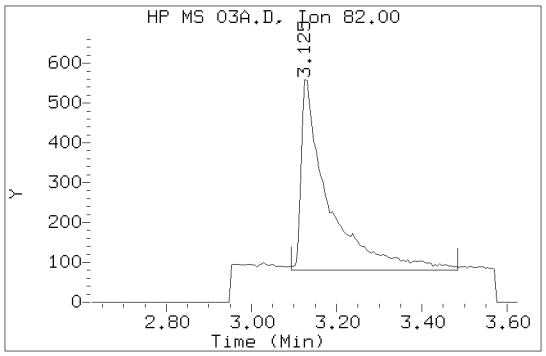
BEFORE

MASS
82
AREA
4515
HEIGHT
558
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
82
AREA
2136
HEIGHT
477
31-May-2024
14:28
marco
gutierrez

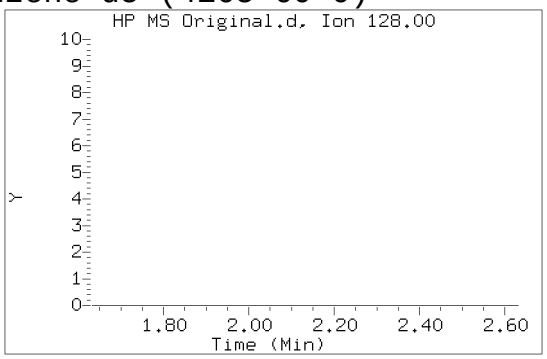


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

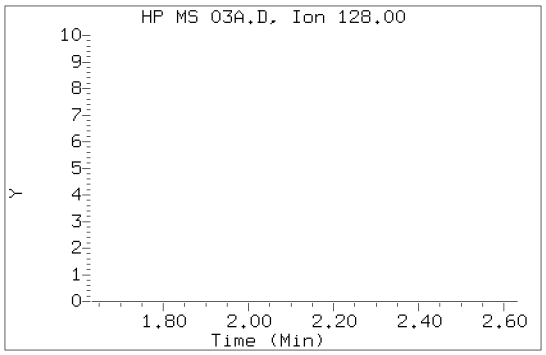
Nitrobenzene-d5 (4165-60-0)

Reason Code:

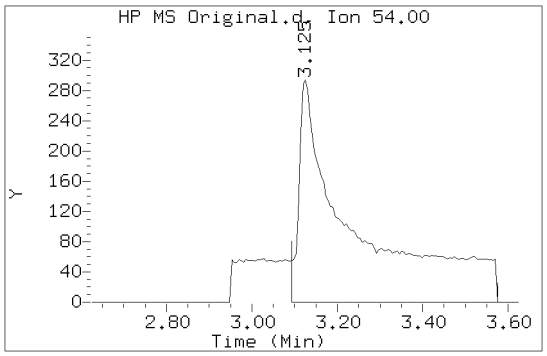
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



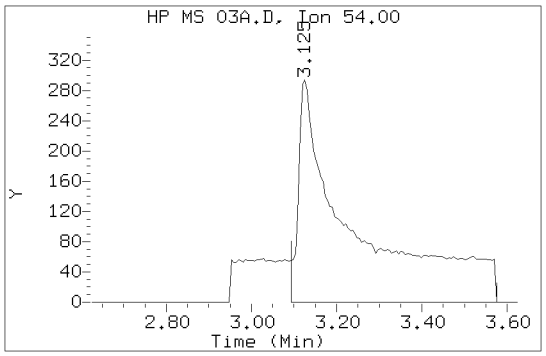
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez



BEFORE
MASS
54
AREA
2629
HEIGHT
294
31-May-2024
14:23
marco
gutierrez



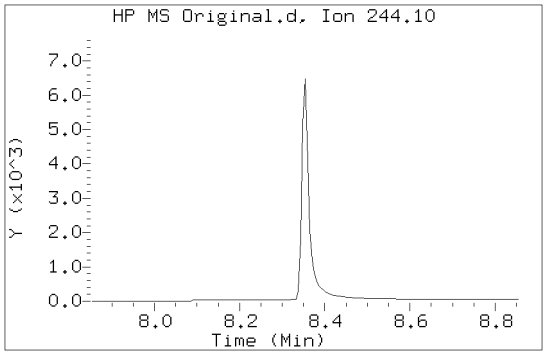
AFTER
MASS
54
AREA
2629
HEIGHT
294
31-May-2024
14:28
marco
gutierrez



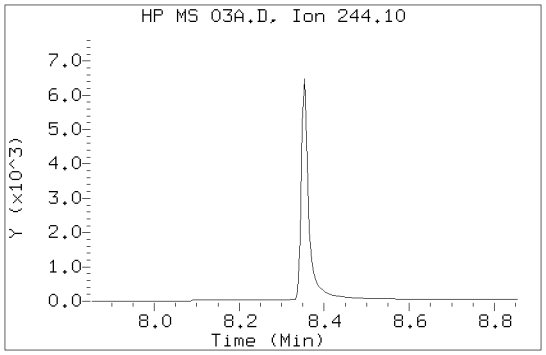
4-Terphenyl-d14 (1718-51-0)

Reason Code:

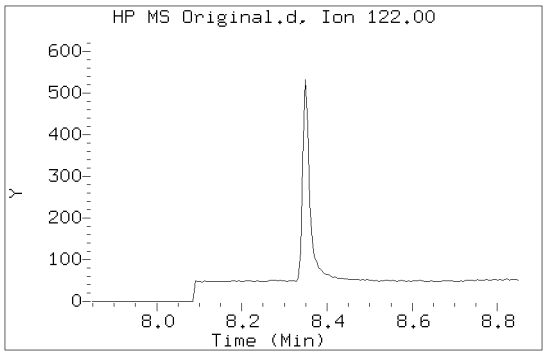
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



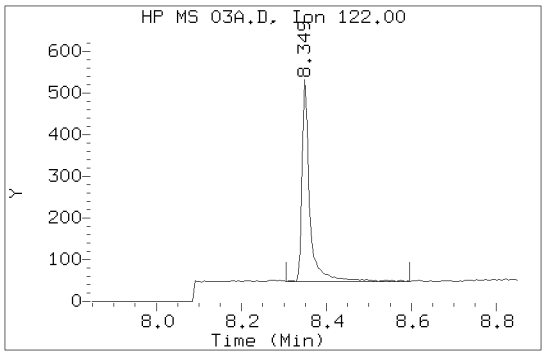
AFTER
MASS
244.1
AREA
10921
HEIGHT
6472
31-May-2024
14:28
marco
gutierrez



BEFORE
MASS
122
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER
MASS
122
AREA
600
HEIGHT
484
31-May-2024
14:28
marco
gutierrez



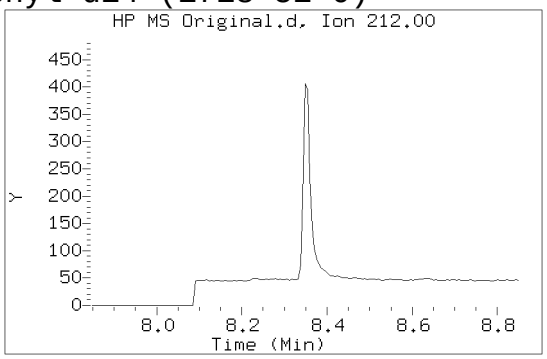
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

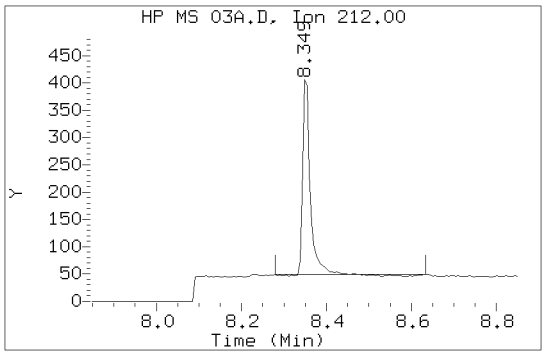
BEFORE

MASS
212
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
212
AREA
416
HEIGHT
357
31-May-2024
14:28
marco
gutierrez

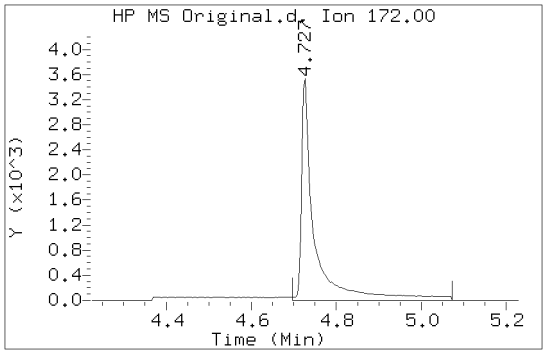


2-Fluorobiphenyl (321-60-8)

Reason Code:

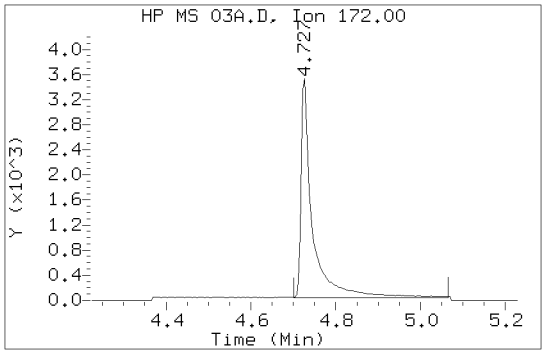
BEFORE

MASS
172
AREA
7557
HEIGHT
3534
31-May-2024
14:23
marco
gutierrez



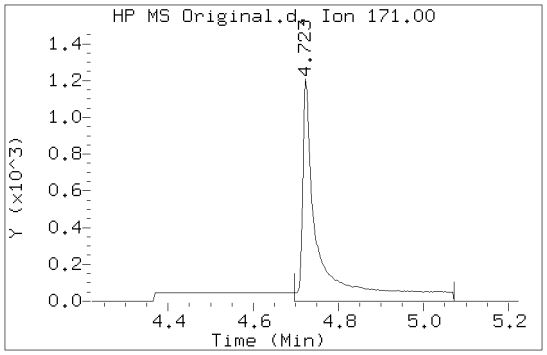
AFTER

MASS
172
AREA
6671
HEIGHT
3495
31-May-2024
14:28
marco
gutierrez



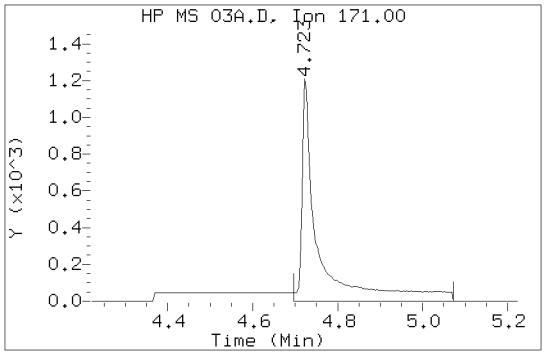
BEFORE

MASS
171
AREA
3199
HEIGHT
1209
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
171
AREA
3199
HEIGHT
1209
31-May-2024
14:28
marco
gutierrez



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D Page 1
Report Date: 21-Jun-2024 13:04

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Lab Smp Id: HS24051277-01
Inj Date : 31-MAY-2024 15:06
Operator : LG Inst ID: SV6.i
Smp Info : HS24051277-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6
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

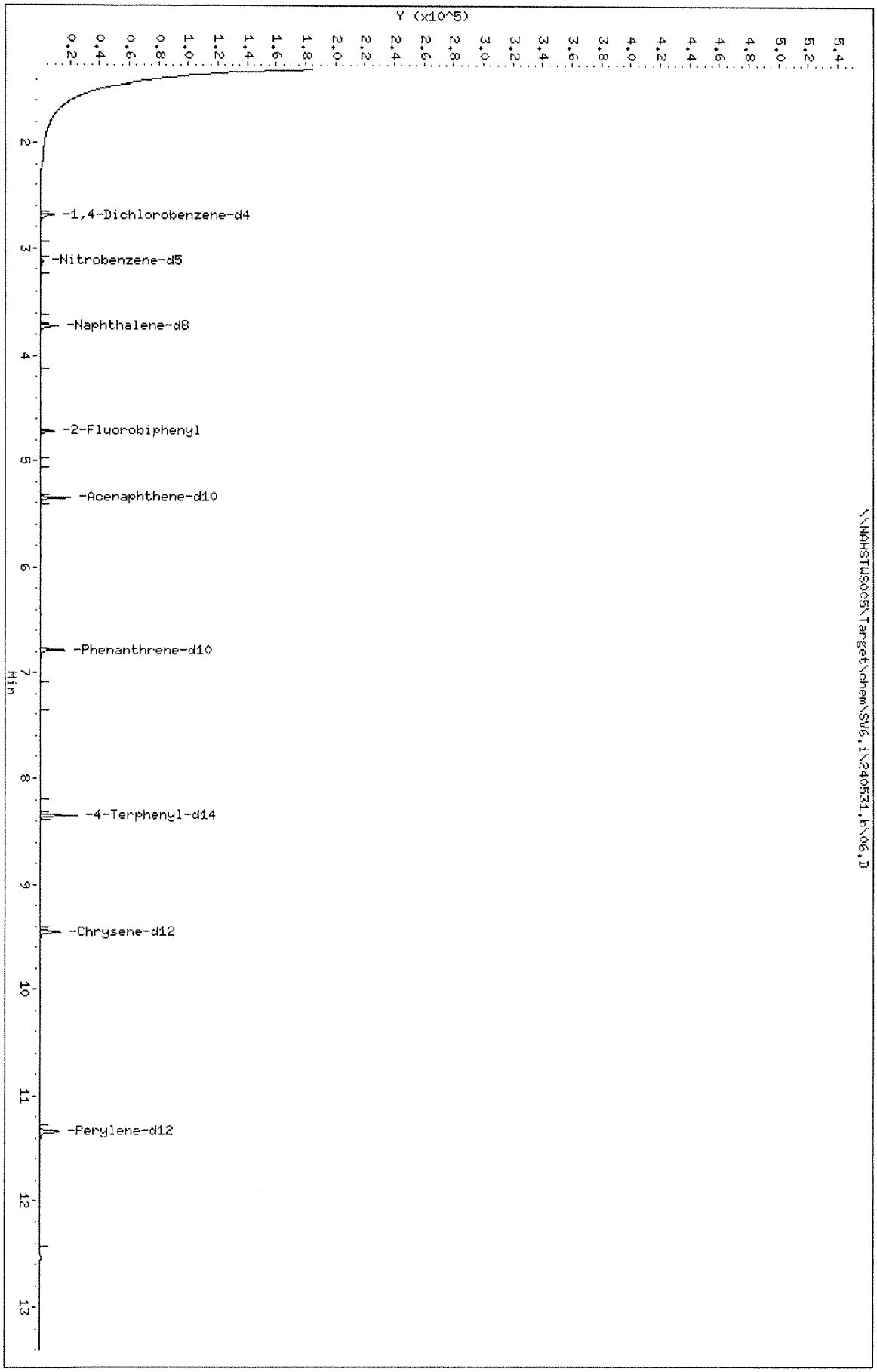
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	4263	0.10000		(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	13986	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.119	3.135	(0.838)	2565	0.06109	0.06109	(M)
* 86 Acenaphthene-d10	164	5.351	5.356	(1.000)	8856	0.10000		
$ 69 2-Fluorobiphenyl	172	4.722	4.726	(0.883)	9515	0.07028	0.07028	
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	16784	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	14591	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	22335	0.07514	0.07514	(M)
* 198 Perylene-d12	264	11.333	11.344	(1.000)	15819	0.10000		(M)
1 1,4-Dioxane	58	1.308	1.267	(0.486)	3161	0.34618	0.3462	(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\240531.b\06.D
Date : 31-MAY-2024 15:06
Client ID:
Sample Info: HS24051277-01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D

Date : 31-MAY-2024 15:06

Client ID:

Instrument: SV6.i

Sample Info: HS24051277-01

Purge Volume: 1000.0

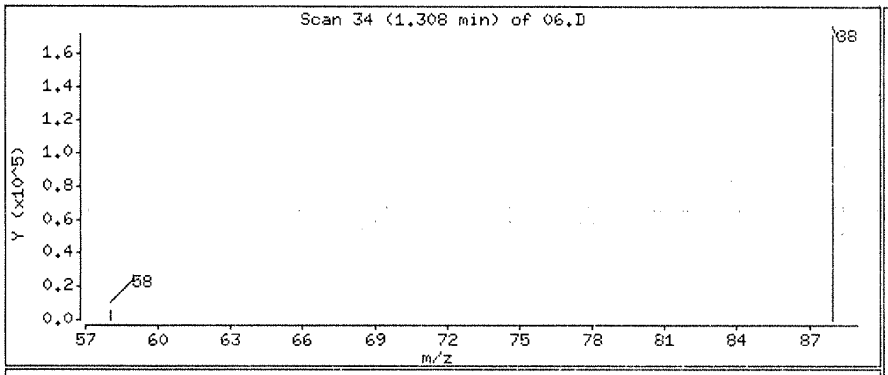
Operator: LG

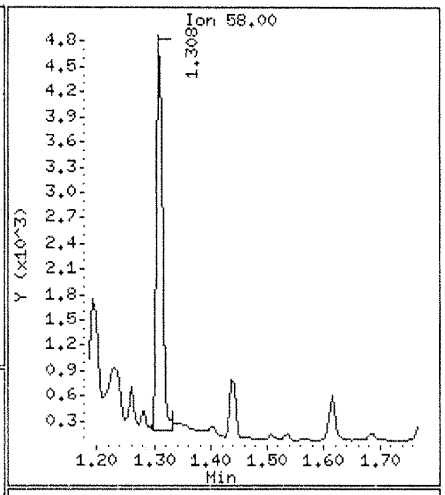
Column phase: RTX-5SIL MS

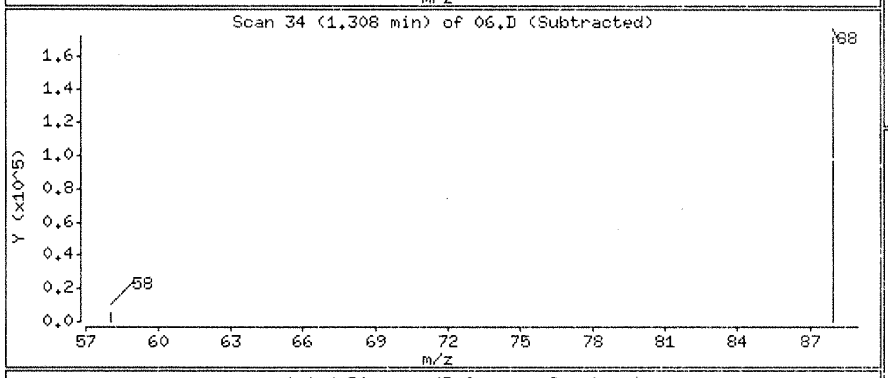
Column diameter: 0.28

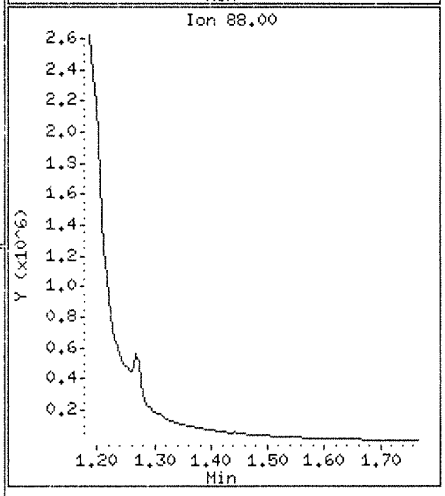
1 1,4-Dioxane

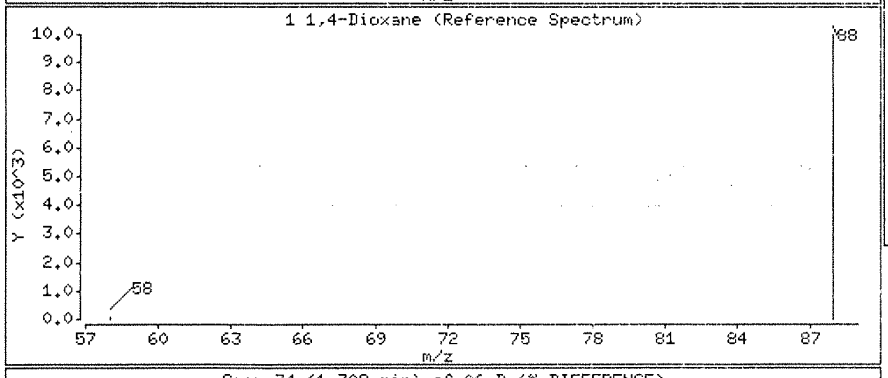
Concentration: 0.3462 ug/L

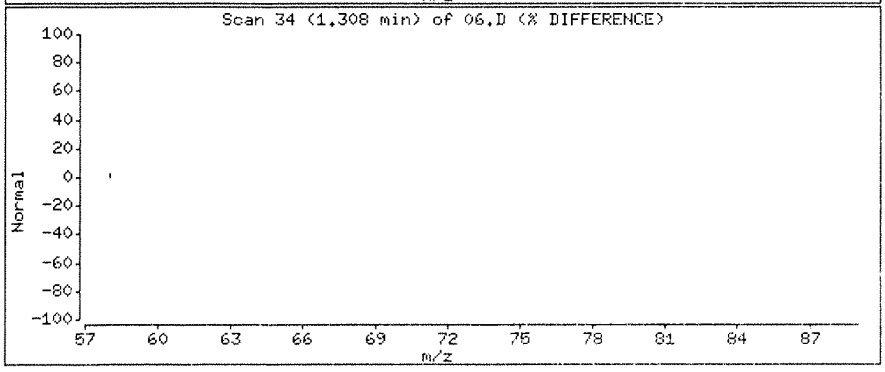












Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D Page 1
Report Date: 31-May-2024 16:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Lab Smp Id: MBLK-212606
Inj Date : 31-MAY-2024 15:23
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

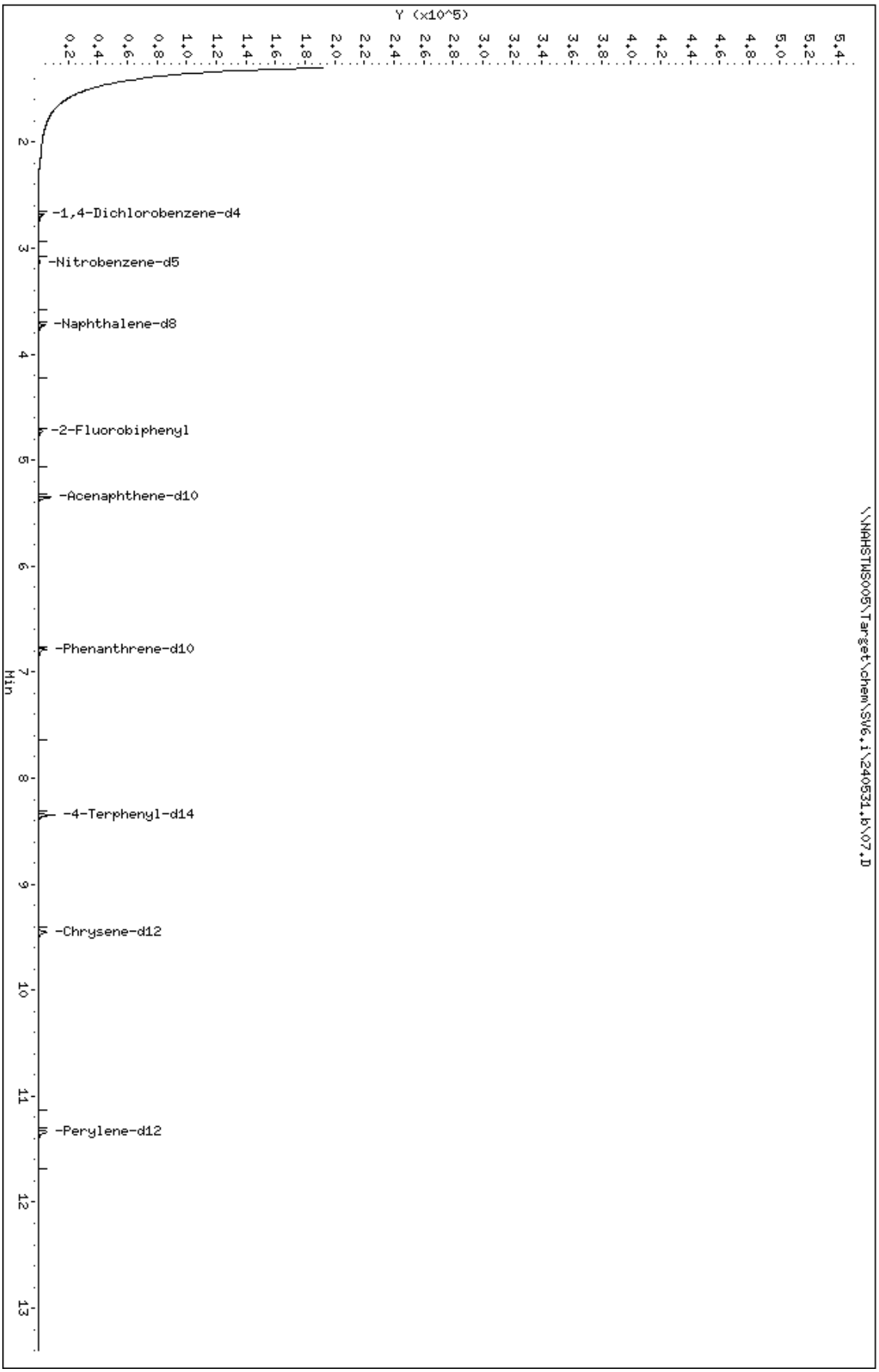
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

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	2.684	2.685	(1.000)	2302	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	7017	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	1284	0.06095	0.06095(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4556	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4240	0.06088	0.06088(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8316	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.456	(1.000)	7511	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	11295	0.07382	0.07382(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	8087	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\240531.b\07.D
Date : 31-MAY-2024 15:23
Client ID:
Sample Info: MBLK-212606
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 1
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D

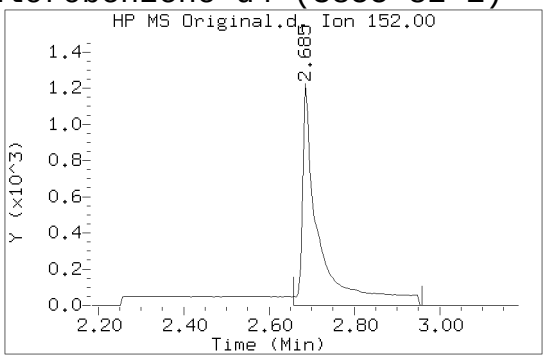
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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

1,4-Dichlorobenzene-d4 (3855-82-1)

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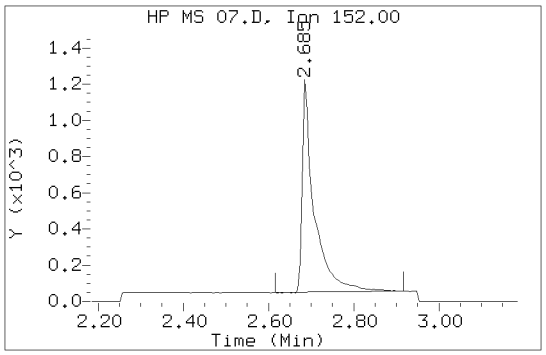
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MASS
152
AREA
3241
HEIGHT
1225
31-May-2024
15:39
ALSHS
Server



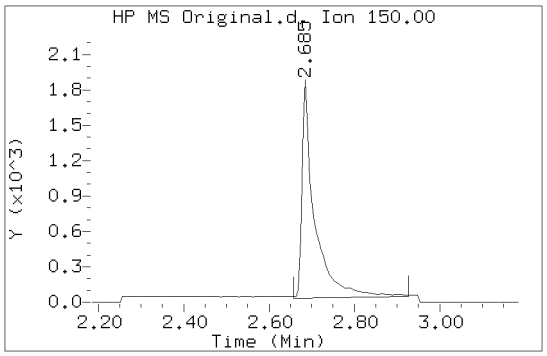
AFTER

MASS
152
AREA
2302
HEIGHT
1175
31-May-2024
16:13



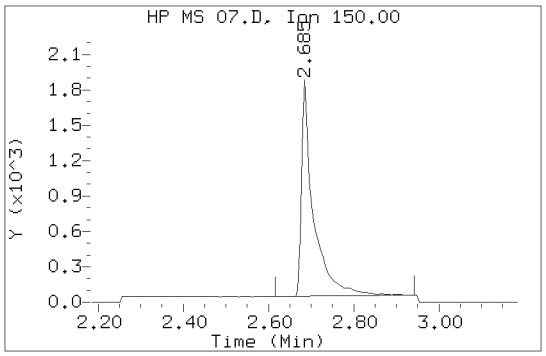
BEFORE

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AREA
3811
HEIGHT
1847
31-May-2024
15:39
ALSHS
Server



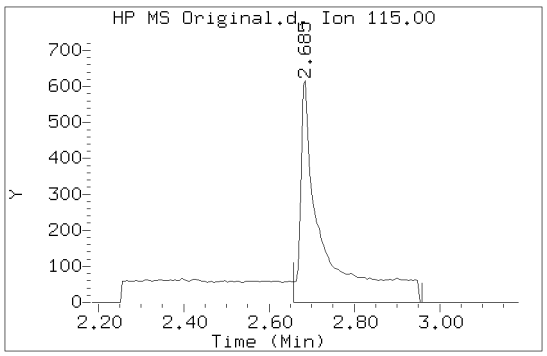
AFTER

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150
AREA
3586
HEIGHT
1833
31-May-2024
16:13



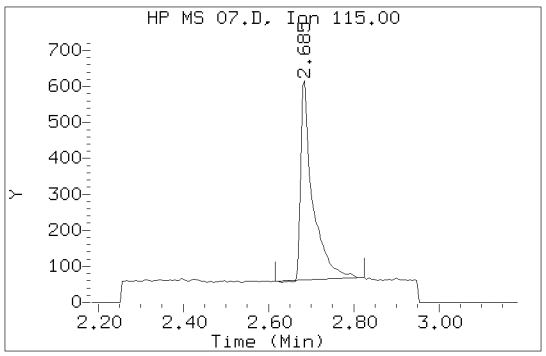
BEFORE

MASS
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AREA
2217
HEIGHT
616
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
115
AREA
1079
HEIGHT
554
31-May-2024
16:13

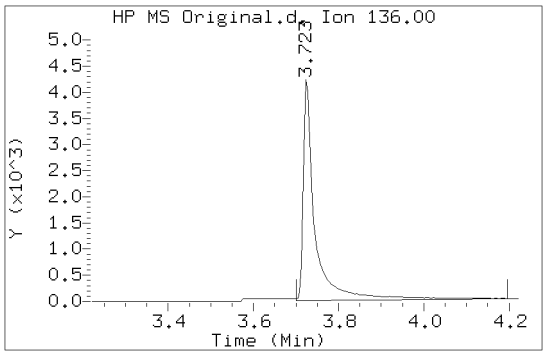


Naphthalene-d8 (1146-65-2)

Reason Code:

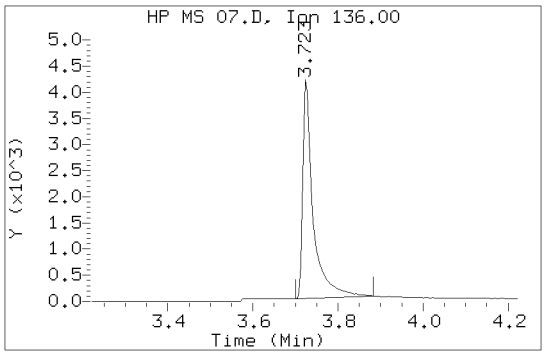
BEFORE

MASS
136
AREA
8252
HEIGHT
4228
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
136
AREA
7017
HEIGHT
4186
31-May-2024
16:13



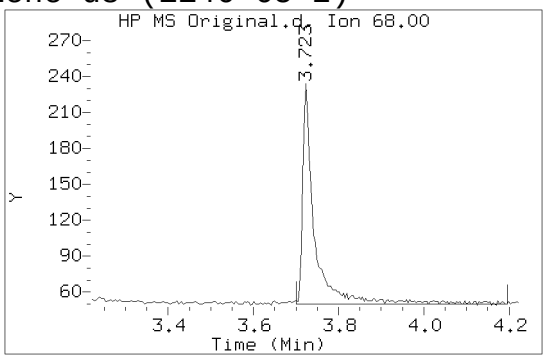
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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

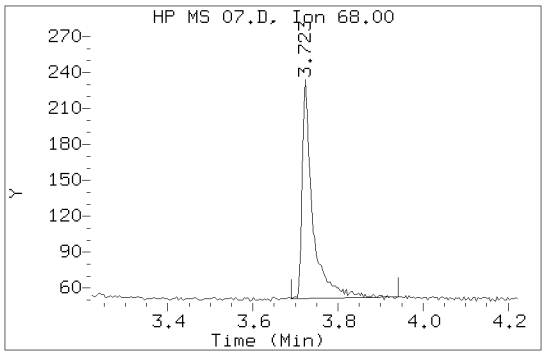
BEFORE

MASS
68
AREA
362
HEIGHT
184
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
68
AREA
310
HEIGHT
182
31-May-2024
16:13

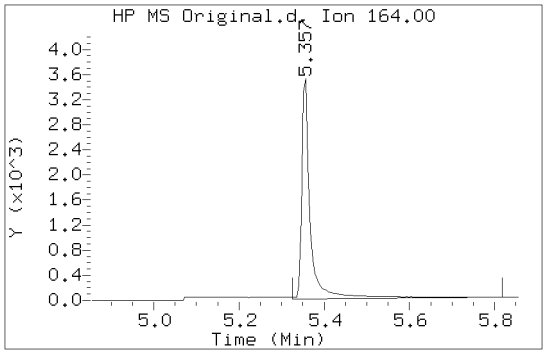


Acenaphthene-d10 (15067-26-2)

Reason Code:

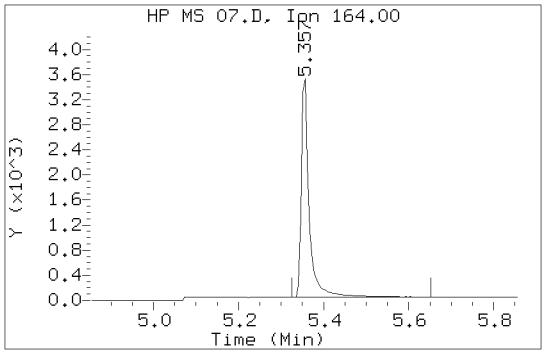
BEFORE

MASS
164
AREA
5124
HEIGHT
3517
31-May-2024
15:39
ALSHS
Server



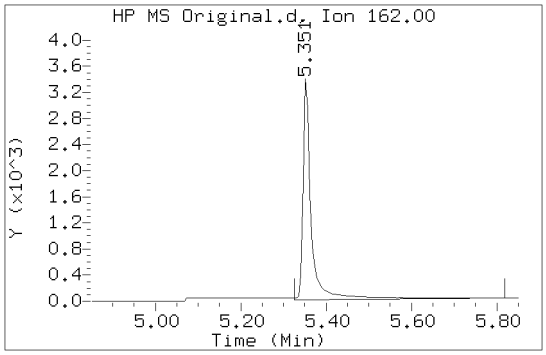
AFTER

MASS
164
AREA
4556
HEIGHT
3488
31-May-2024
16:13



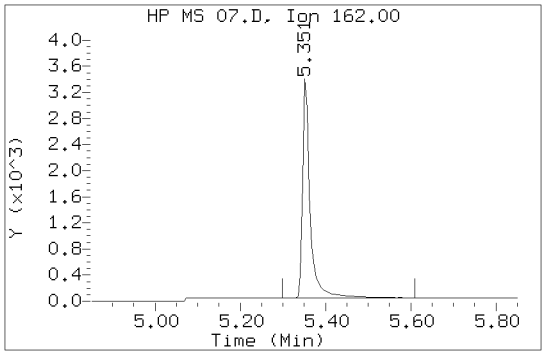
BEFORE

MASS
162
AREA
4752
HEIGHT
3388
31-May-2024
15:39
ALSHS
Server



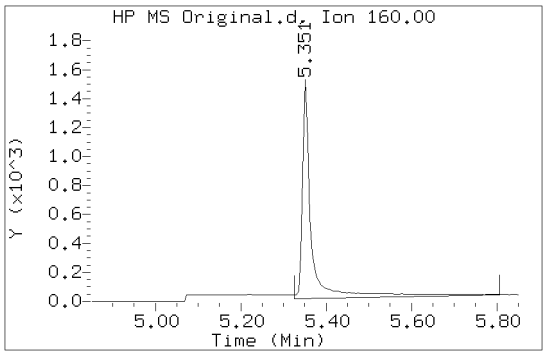
AFTER

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162
AREA
4185
HEIGHT
3357
31-May-2024
16:13



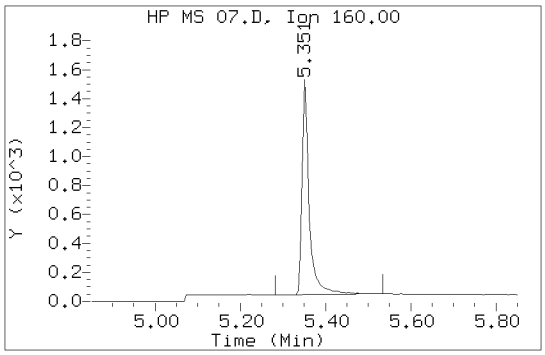
BEFORE

MASS
160
AREA
2287
HEIGHT
1513
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
160
AREA
1764
HEIGHT
1484
31-May-2024
16:13

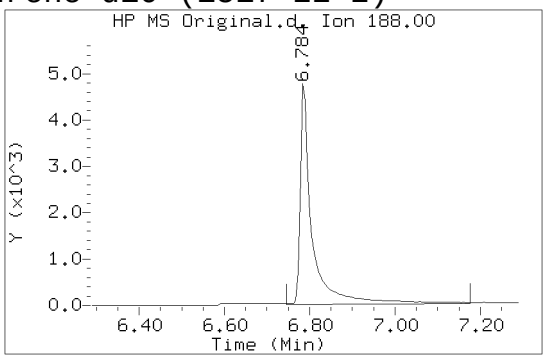


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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

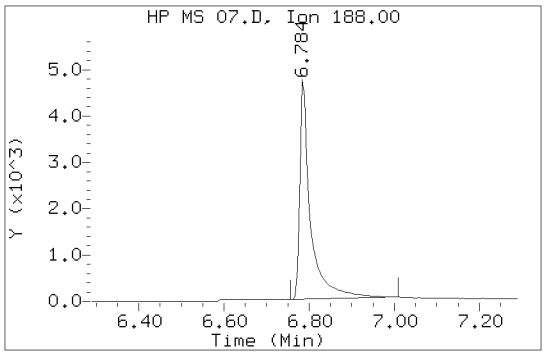
Phenanthrene-d10 (1517-22-2)

Reason Code:

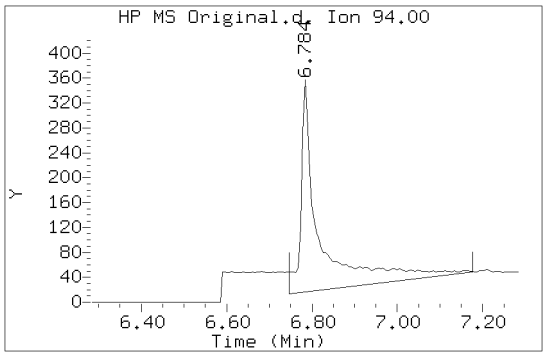
BEFORE
MASS
188
AREA
9304
HEIGHT
4766
31-May-2024
15:39
ALSHS
Server



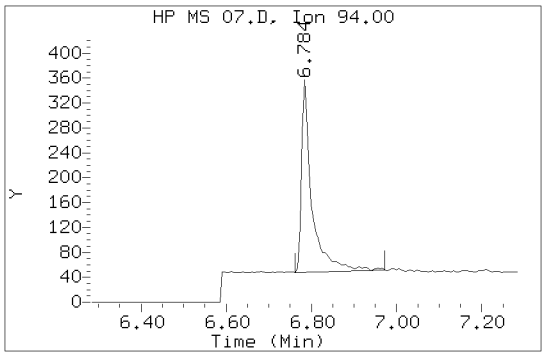
AFTER
MASS
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AREA
8316
HEIGHT
4735
31-May-2024
16:13



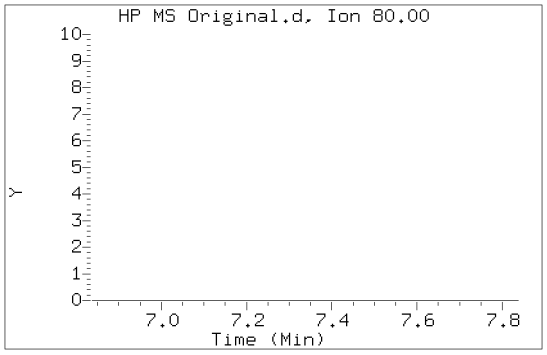
BEFORE
MASS
94
AREA
1030
HEIGHT
340
31-May-2024
15:39
ALSHS
Server



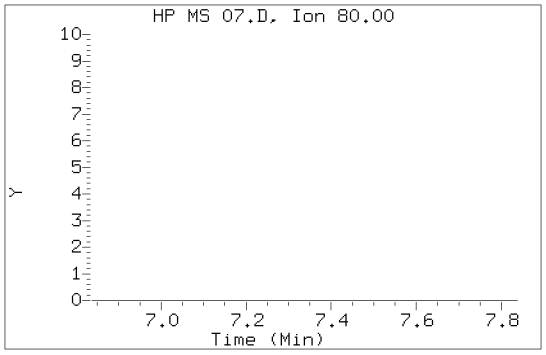
AFTER
MASS
94
AREA
525
HEIGHT
308
31-May-2024
16:13



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
15:39
ALSHS
Server



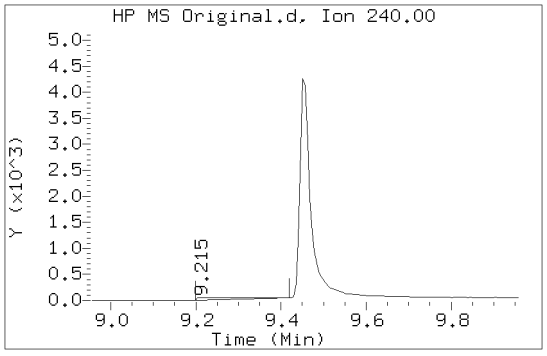
AFTER
MASS
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AREA
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HEIGHT
0
31-May-2024
16:13



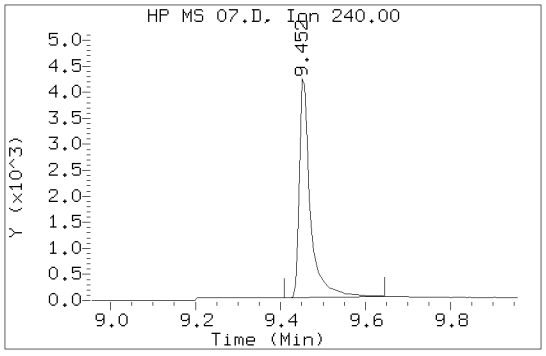
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
293
HEIGHT
43
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
240
AREA
7511
HEIGHT
4208
31-May-2024
16:13

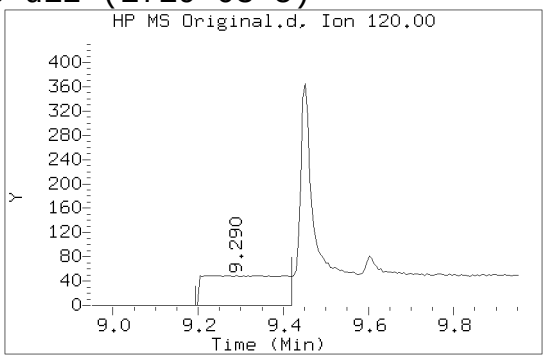


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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

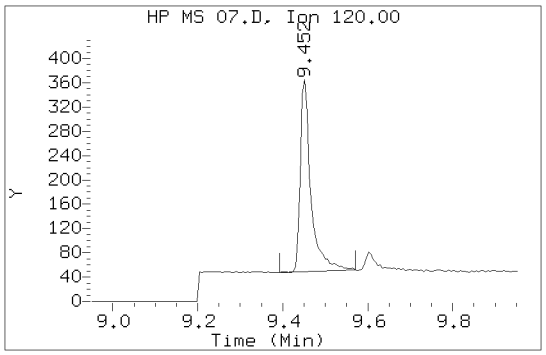
Chrysene-d12 (1719-03-5)

Reason Code:

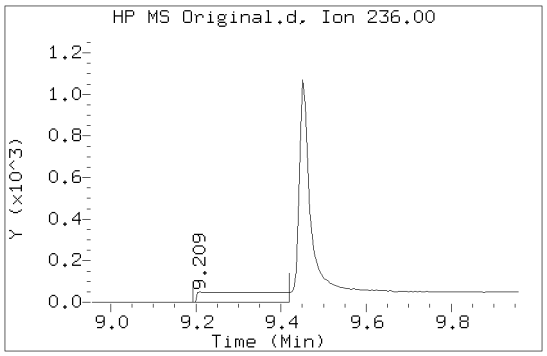
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AREA
642
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



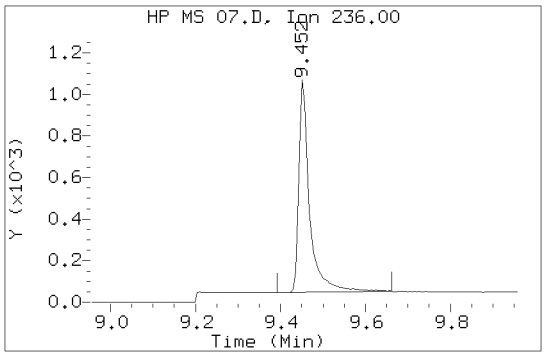
AFTER
MASS
120
AREA
540
HEIGHT
315
31-May-2024
16:13



BEFORE
MASS
236
AREA
613
HEIGHT
49
31-May-2024
15:39
ALSHS
Server



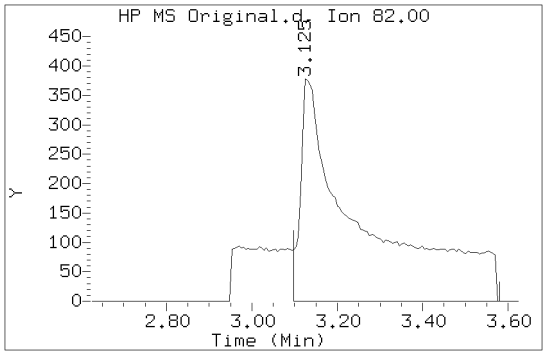
AFTER
MASS
236
AREA
1771
HEIGHT
1021
31-May-2024
16:13



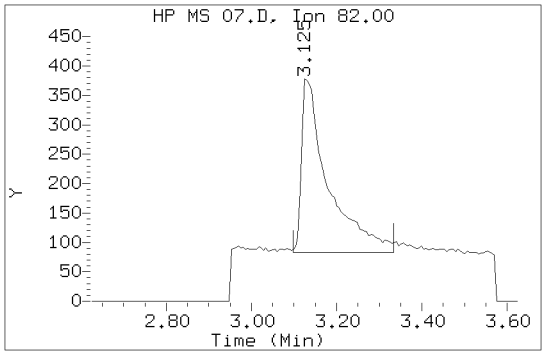
Nitrobenzene-d5 (4165-60-0)

Reason Code:

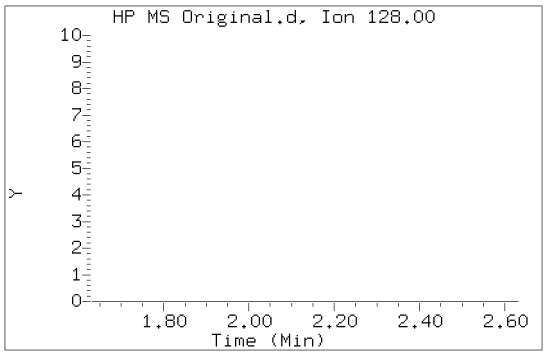
BEFORE
MASS
82
AREA
3717
HEIGHT
378
31-May-2024
15:39
ALSHS
Server



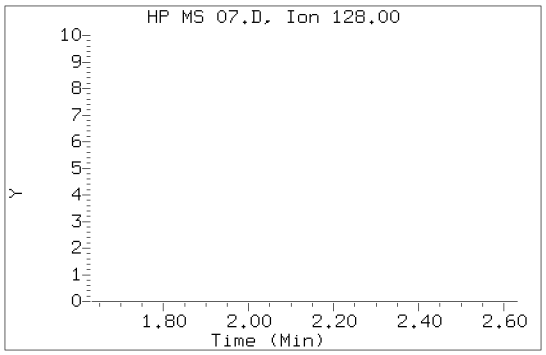
AFTER
MASS
82
AREA
1284
HEIGHT
295
31-May-2024
16:13



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:13



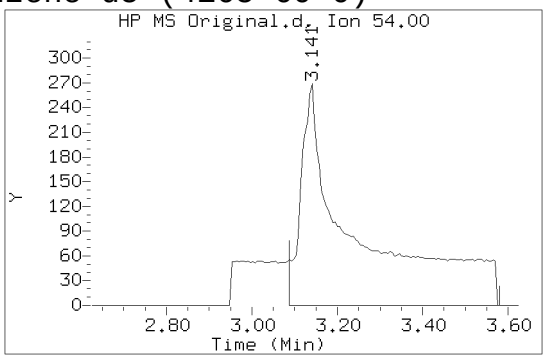
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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

Nitrobenzene-d5 (4165-60-0)

Reason Code:

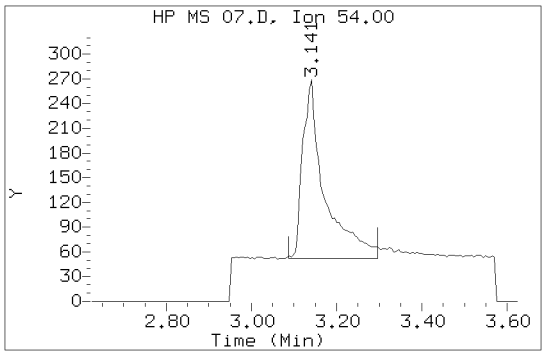
BEFORE

MASS
54
AREA
2384
HEIGHT
269
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
54
AREA
779
HEIGHT
217
31-May-2024
16:13

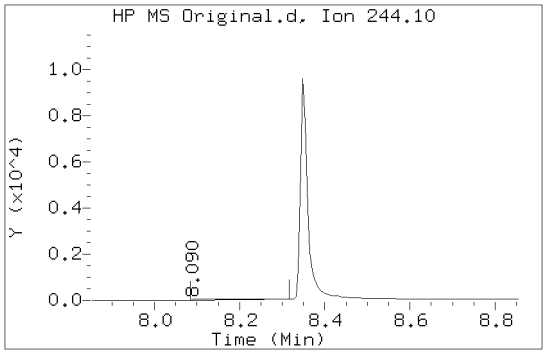


4-Terphenyl-d14 (1718-51-0)

Reason Code:

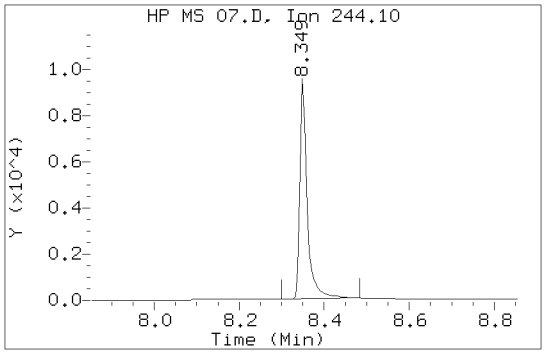
BEFORE

MASS
244.1
AREA
303
HEIGHT
44
31-May-2024
15:39
ALSHS
Server



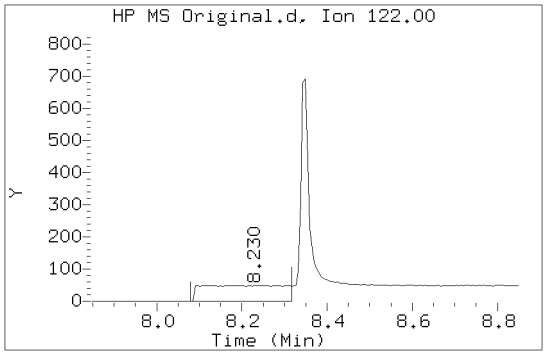
AFTER

MASS
244.1
AREA
11295
HEIGHT
9549
31-May-2024
16:13



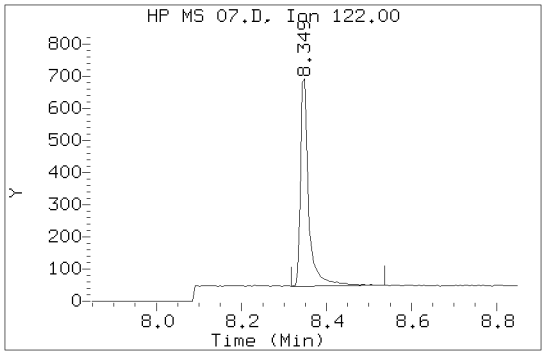
BEFORE

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AREA
668
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



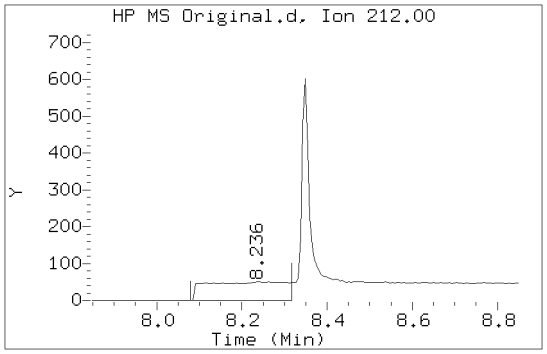
AFTER

MASS
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AREA
849
HEIGHT
644
31-May-2024
16:13



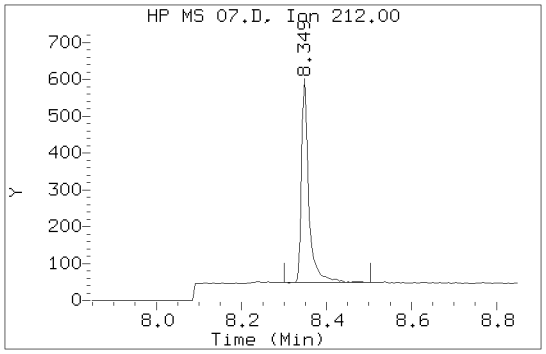
BEFORE

MASS
212
AREA
654
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
212
AREA
657
HEIGHT
554
31-May-2024
16:13

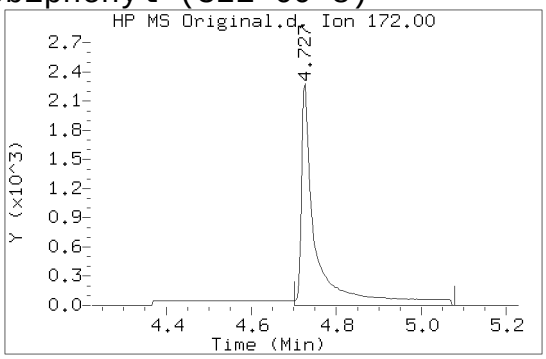


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

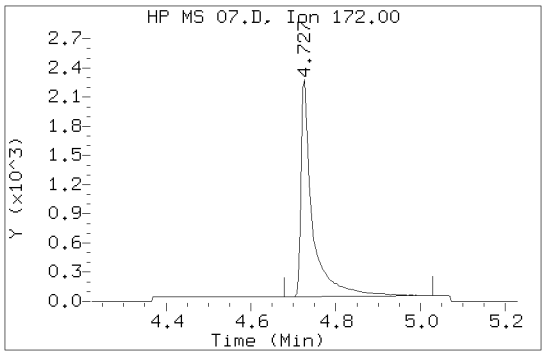
2-Fluorobiphenyl (321-60-8)

Reason Code:

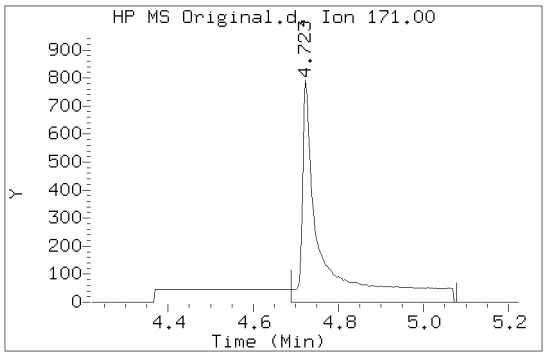
BEFORE
MASS
172
AREA
5457
HEIGHT
2279
31-May-2024
15:39
ALSHS
Server



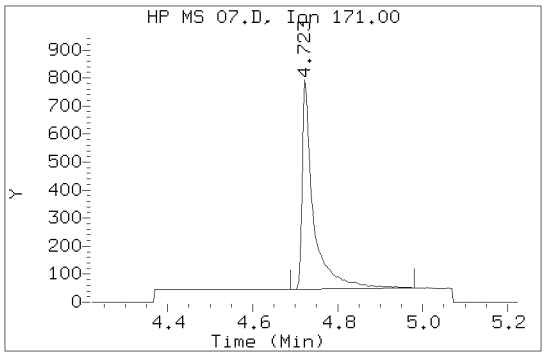
AFTER
MASS
172
AREA
4240
HEIGHT
2230
31-May-2024
16:13



BEFORE
MASS
171
AREA
2523
HEIGHT
793
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
171
AREA
1408
HEIGHT
747
31-May-2024
16:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D Page 1
Report Date: 31-May-2024 16:14

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Lab Smp Id: LCS-212606
Inj Date : 31-MAY-2024 15:41
Operator : LG Inst ID: SV6.i
Smp Info : LCS-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8
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	2.685	2.685	(1.000)	2607	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	8485	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	1890	0.07420	0.07420(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5108	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5114	0.06549	0.06549(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	9991	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.456	(1.000)	8937	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	12727	0.06990	0.06990(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	9796	0.10000	
1 1,4-Dioxane	58	1.275	1.275	(0.475)	392	0.07020	0.07020(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\240531.b\08.D

Date : 31-MAY-2024 15:41

Client ID:

Instrument: SV6.i

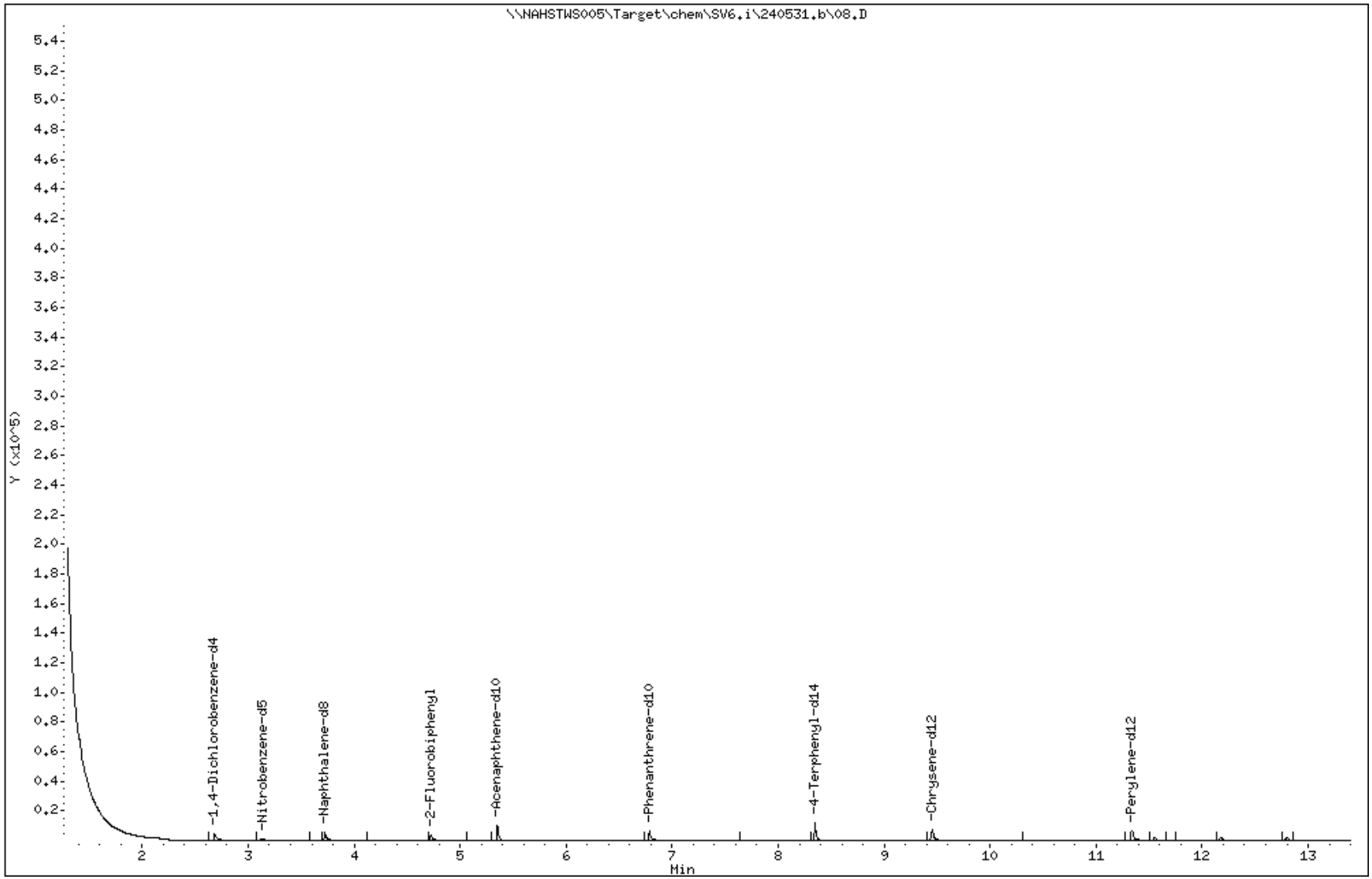
Sample Info: LCS-212606

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D

Date : 31-MAY-2024 15:41

Client ID:

Instrument: SV6.i

Sample Info: LCS-212606

Purge Volume: 1000.0

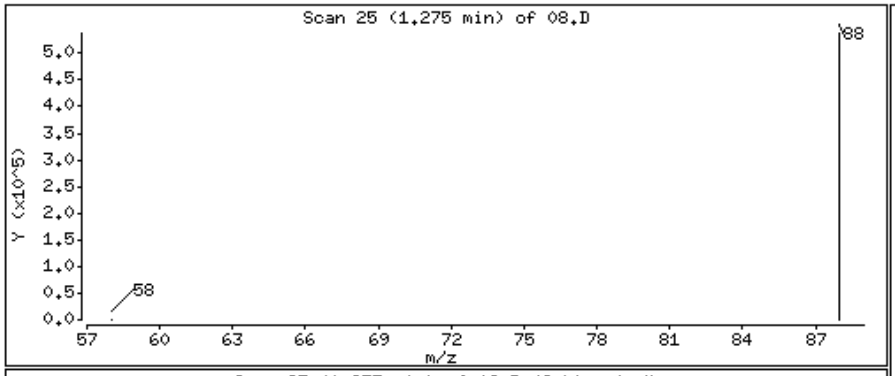
Operator: LG

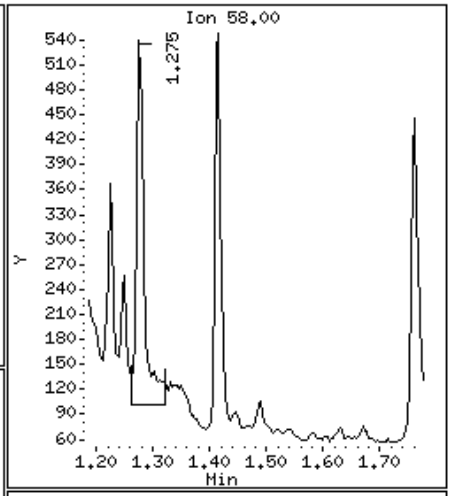
Column phase: RTX-5SIL MS

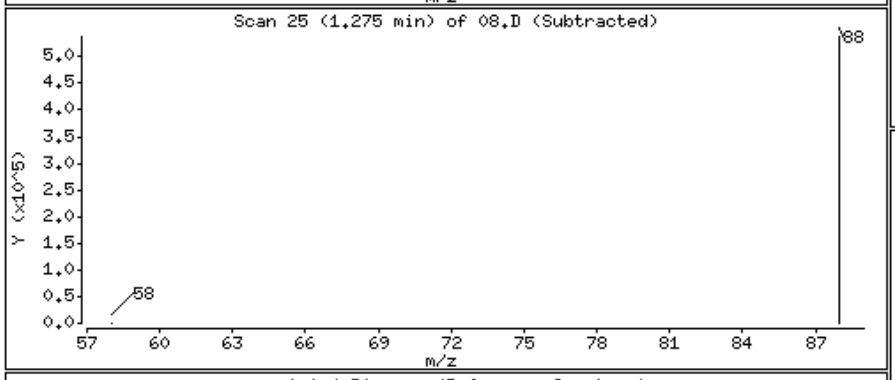
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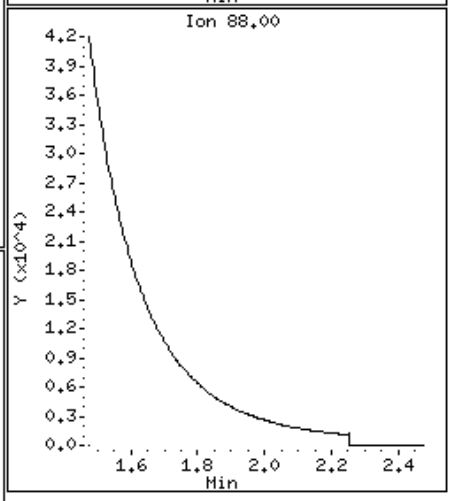
1 1,4-Dioxane

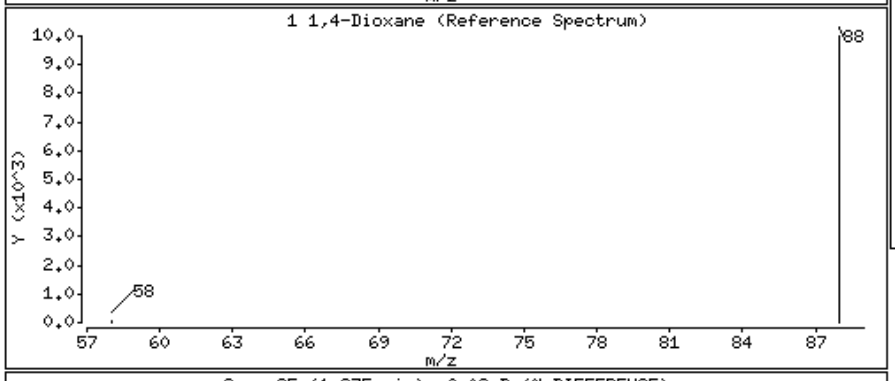
Concentration: 0.07020 ug/L

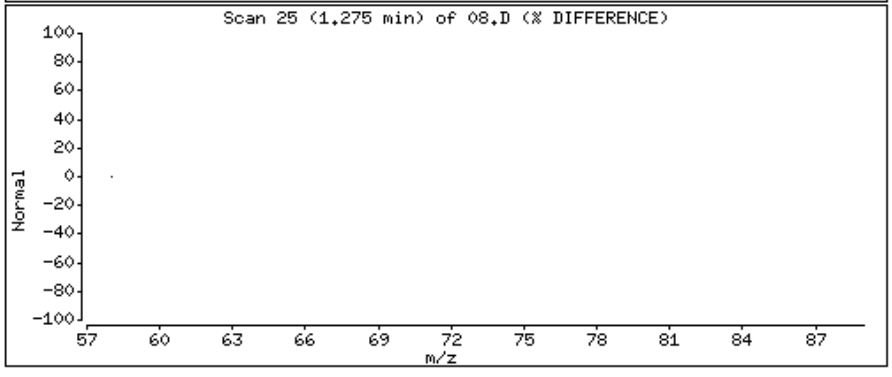










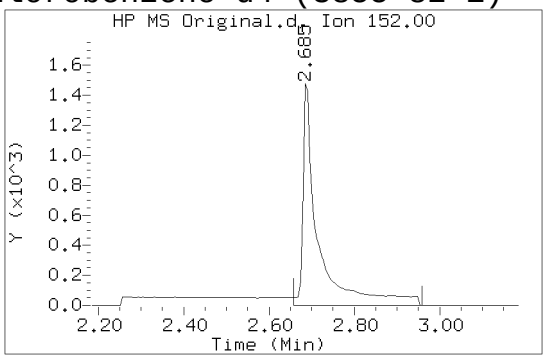


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

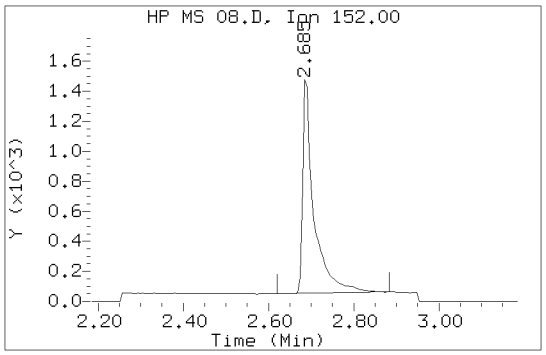
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

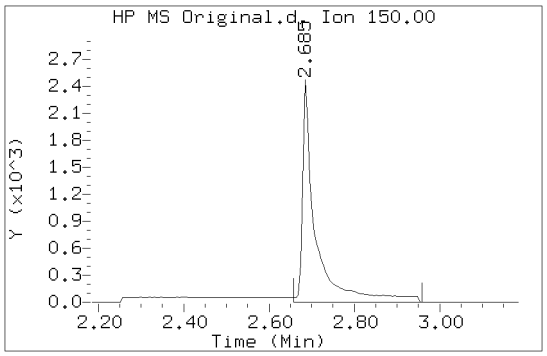
BEFORE
MASS
152
AREA
3648
HEIGHT
1477
31-May-2024
15:56
ALSHS
Server



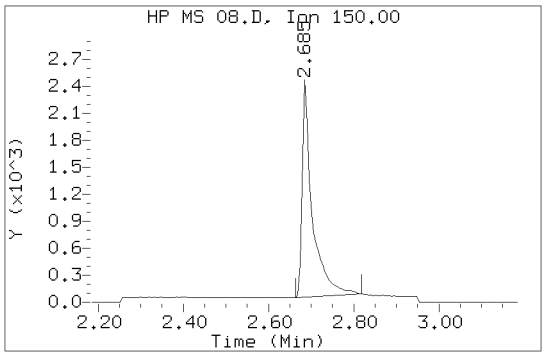
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MASS
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AREA
2607
HEIGHT
1422
31-May-2024
16:14



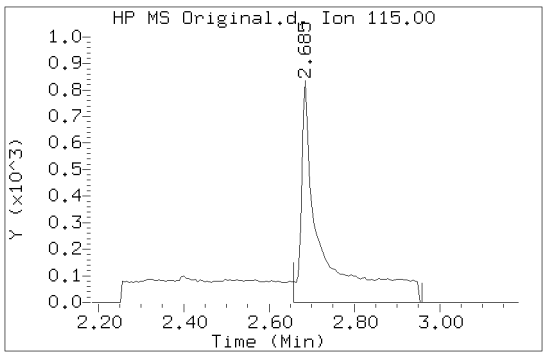
BEFORE
MASS
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AREA
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HEIGHT
2470
31-May-2024
15:56
ALSHS
Server



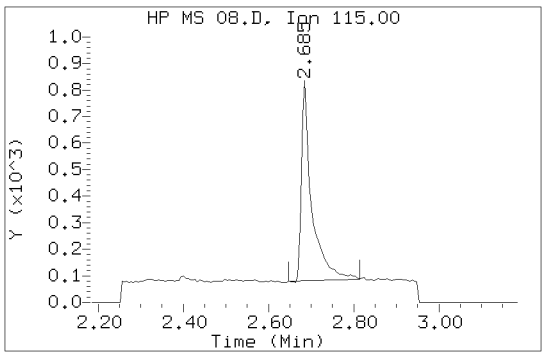
AFTER
MASS
150
AREA
4005
HEIGHT
2413
31-May-2024
16:14



BEFORE
MASS
115
AREA
2759
HEIGHT
835
31-May-2024
15:56
ALSHS
Server



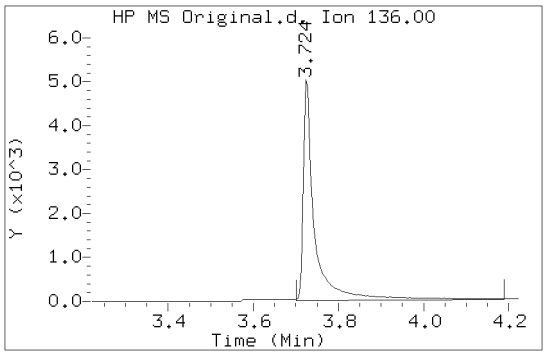
AFTER
MASS
115
AREA
1262
HEIGHT
753
31-May-2024
16:14



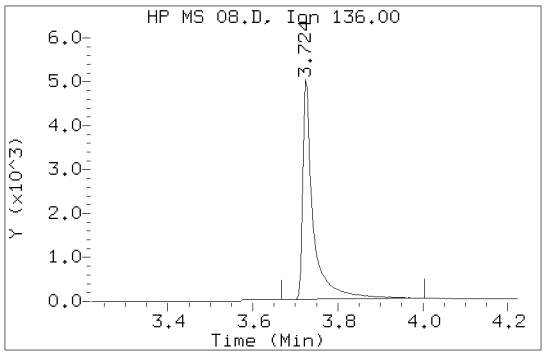
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9471
HEIGHT
5034
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
136
AREA
8485
HEIGHT
4994
31-May-2024
16:14



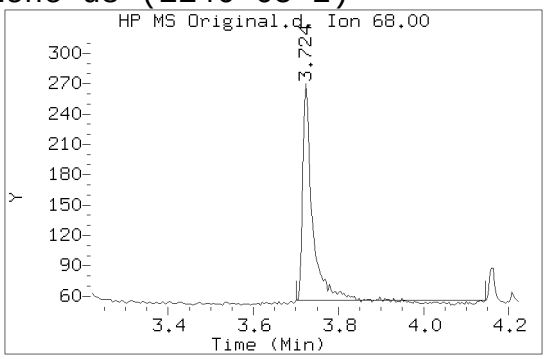
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

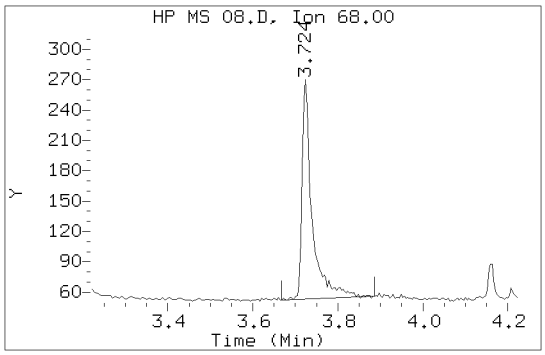
BEFORE

MASS
68
AREA
310
HEIGHT
214
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
68
AREA
360
HEIGHT
216
31-May-2024
16:14

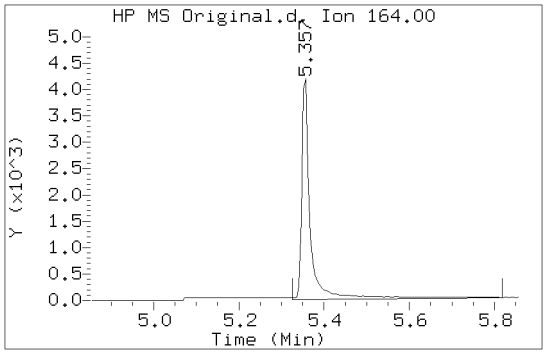


Acenaphthene-d10 (15067-26-2)

Reason Code:

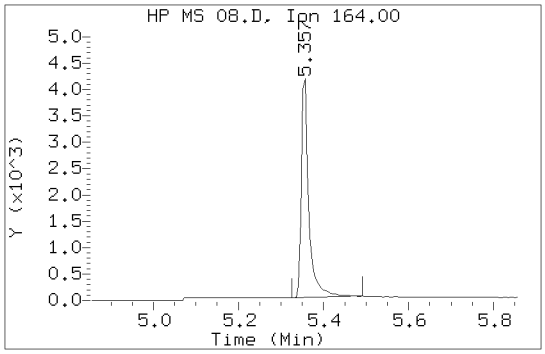
BEFORE

MASS
164
AREA
5928
HEIGHT
4184
31-May-2024
15:56
ALSHS
Server



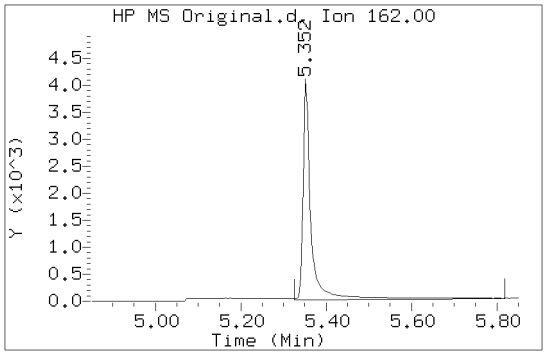
AFTER

MASS
164
AREA
5108
HEIGHT
4147
31-May-2024
16:14



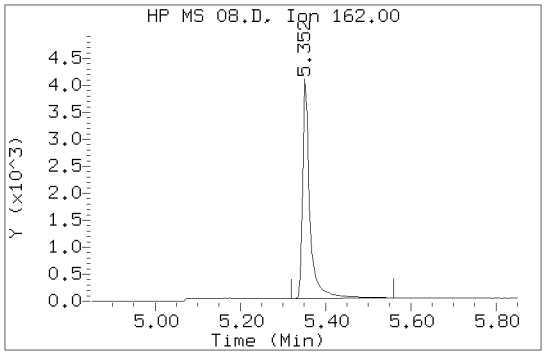
BEFORE

MASS
162
AREA
5515
HEIGHT
4097
31-May-2024
15:56
ALSHS
Server



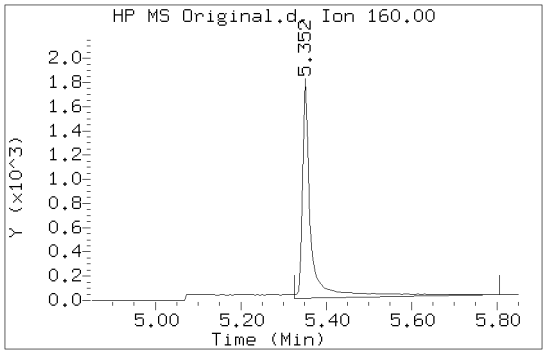
AFTER

MASS
162
AREA
4819
HEIGHT
4065
31-May-2024
16:14



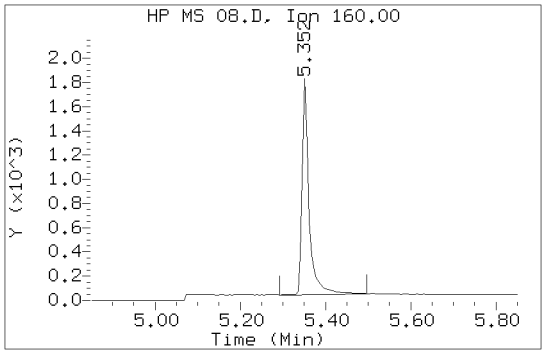
BEFORE

MASS
160
AREA
2607
HEIGHT
1813
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
160
AREA
2048
HEIGHT
1783
31-May-2024
16:14

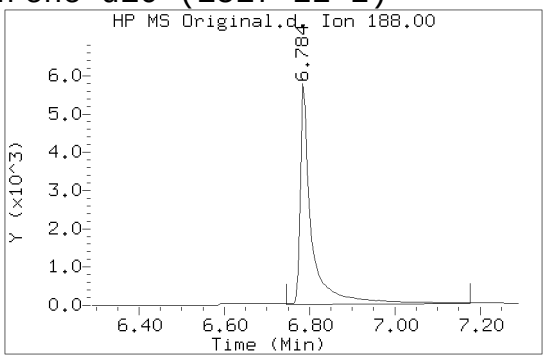


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

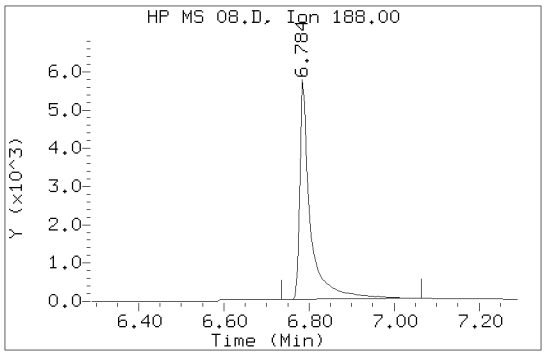
Phenanthrene-d10 (1517-22-2)

Reason Code:

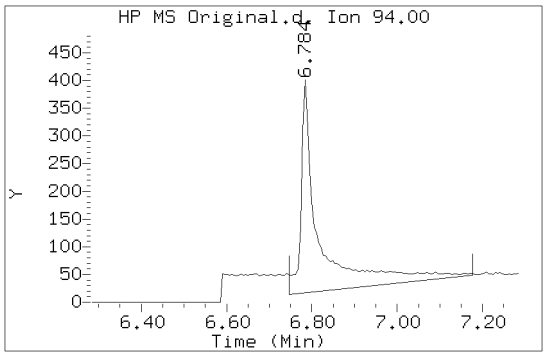
BEFORE
MASS
188
AREA
10910
HEIGHT
5774
31-May-2024
15:56
ALSHS
Server



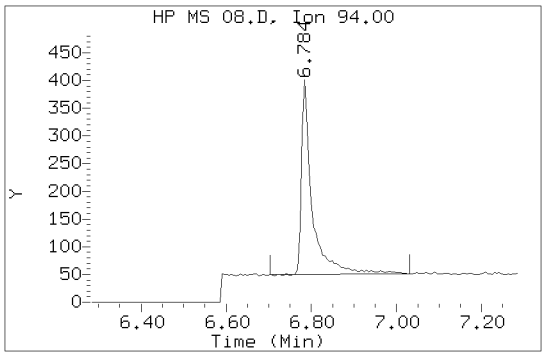
AFTER
MASS
188
AREA
9991
HEIGHT
5741
31-May-2024
16:14



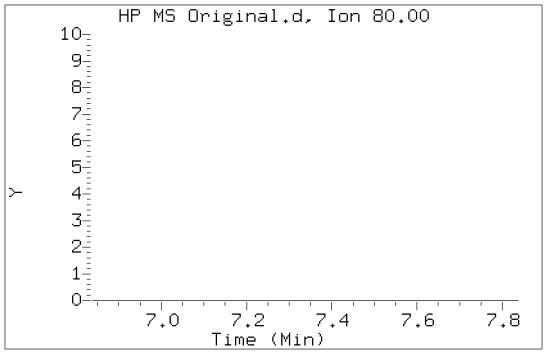
BEFORE
MASS
94
AREA
1129
HEIGHT
383
31-May-2024
15:56
ALSHS
Server



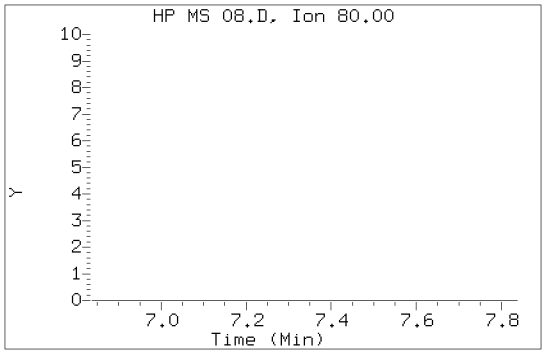
AFTER
MASS
94
AREA
620
HEIGHT
350
31-May-2024
16:14



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



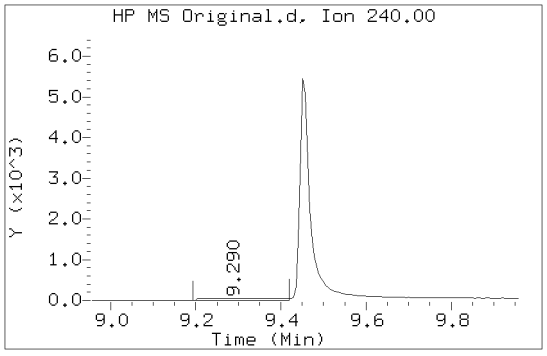
AFTER
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AREA
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HEIGHT
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31-May-2024
16:14



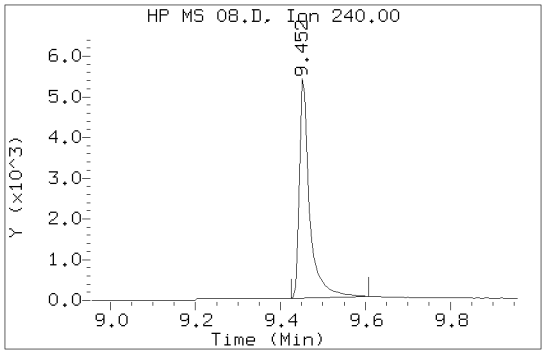
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
618
HEIGHT
49
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
240
AREA
8937
HEIGHT
5392
31-May-2024
16:14

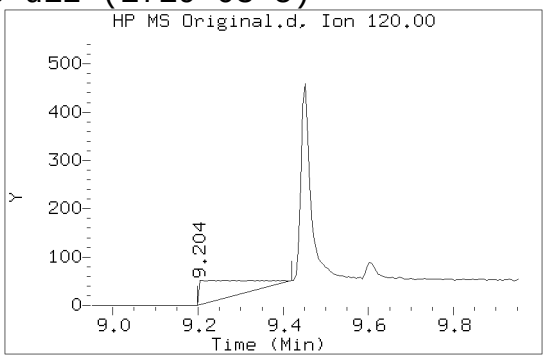


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

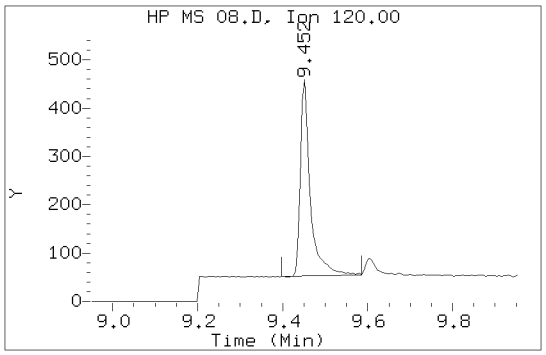
Chrysene-d12 (1719-03-5)

Reason Code:

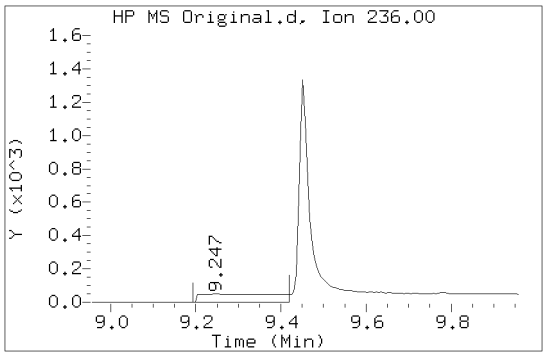
BEFORE
MASS
120
AREA
328
HEIGHT
50
31-May-2024
15:56
ALSHS
Server



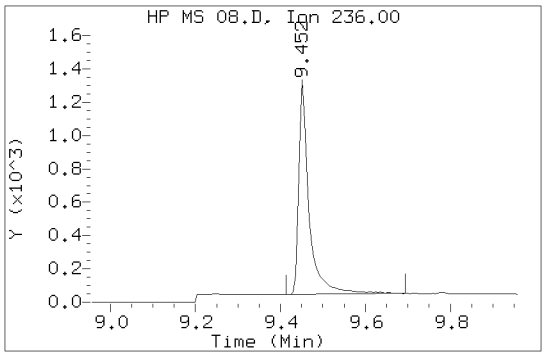
AFTER
MASS
120
AREA
652
HEIGHT
406
31-May-2024
16:14



BEFORE
MASS
236
AREA
629
HEIGHT
50
31-May-2024
15:56
ALSHS
Server



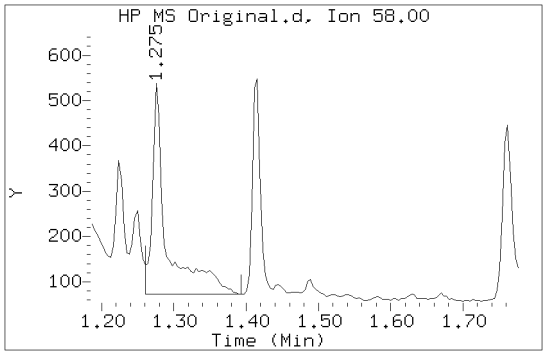
AFTER
MASS
236
AREA
2134
HEIGHT
1285
31-May-2024
16:14



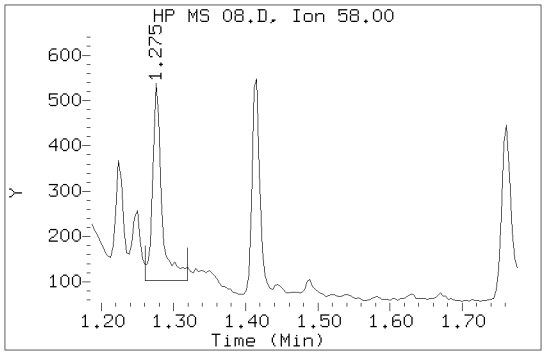
1,4-Dioxane ()

Reason Code:

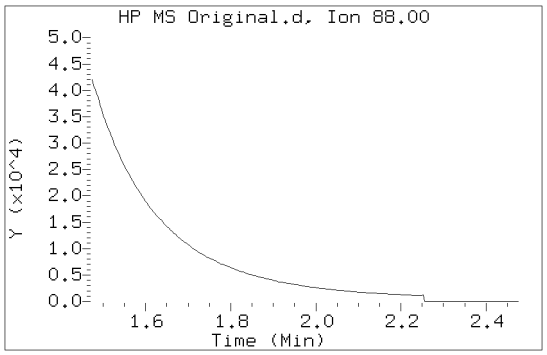
BEFORE
MASS
58
AREA
644
HEIGHT
467
31-May-2024
15:56
ALSHS
Server



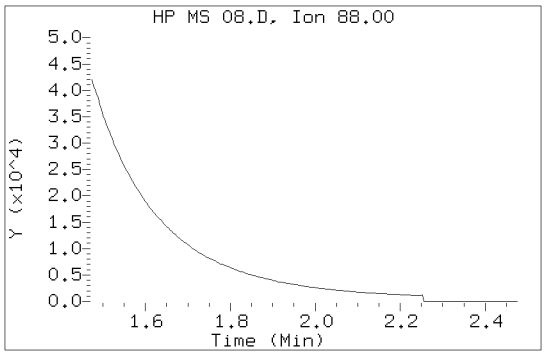
AFTER
MASS
58
AREA
392
HEIGHT
437
31-May-2024
16:14



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:14



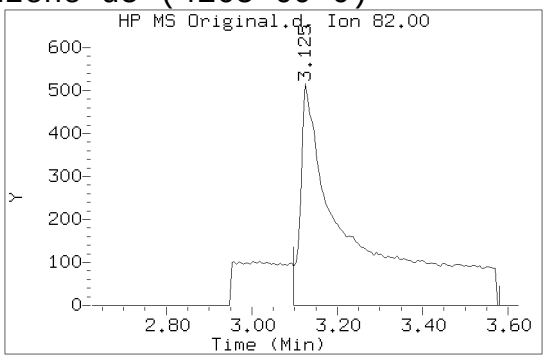
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

Nitrobenzene-d5 (4165-60-0)

Reason Code:

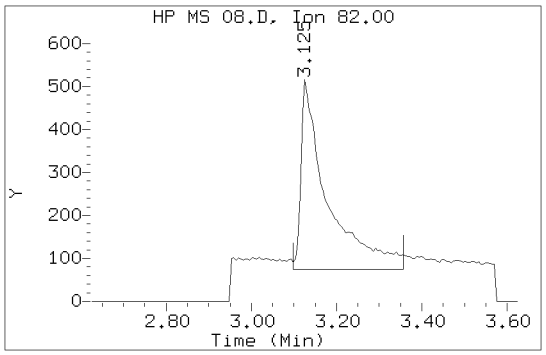
BEFORE

MASS
82
AREA
4279
HEIGHT
516
31-May-2024
15:56
ALSHS
Server



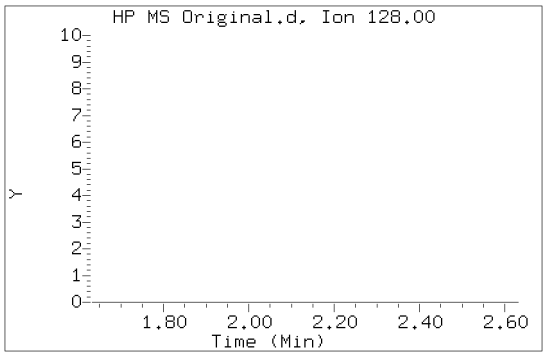
AFTER

MASS
82
AREA
1890
HEIGHT
441
31-May-2024
16:14



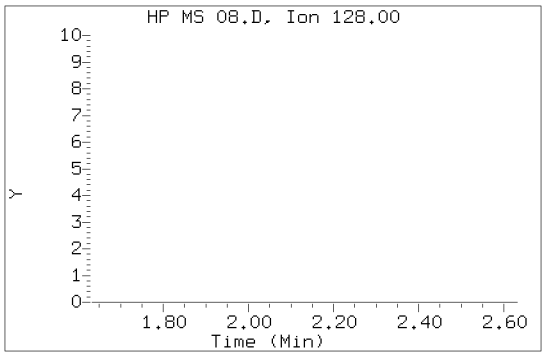
BEFORE

MASS
128
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



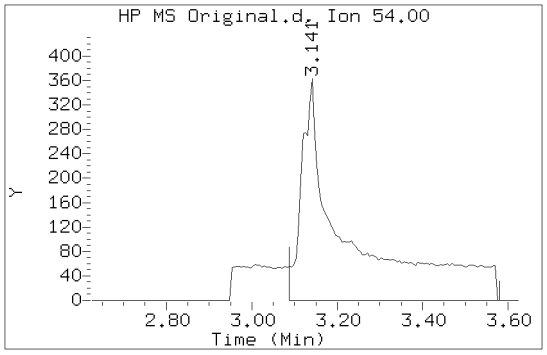
AFTER

MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:14



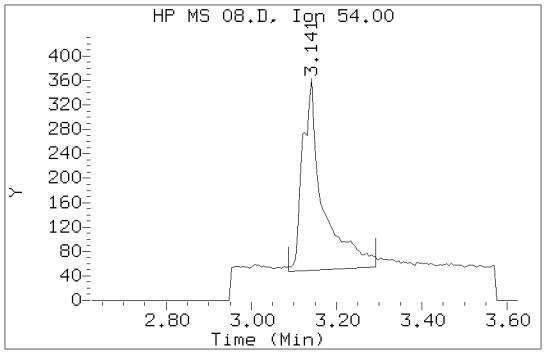
BEFORE

MASS
54
AREA
2673
HEIGHT
363
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
54
AREA
1038
HEIGHT
313
31-May-2024
16:14

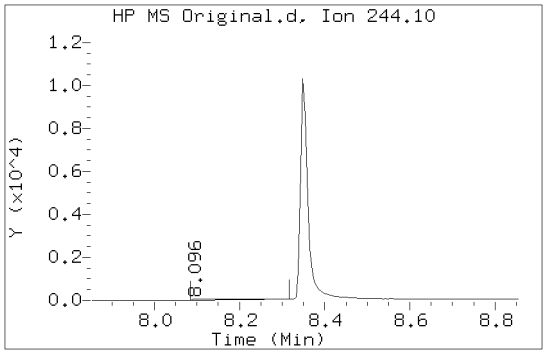


4-Terphenyl-d14 (1718-51-0)

Reason Code:

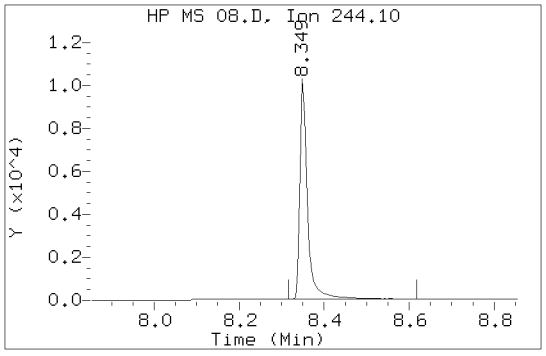
BEFORE

MASS
244.1
AREA
304
HEIGHT
43
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
244.1
AREA
12727
HEIGHT
10275
31-May-2024
16:14



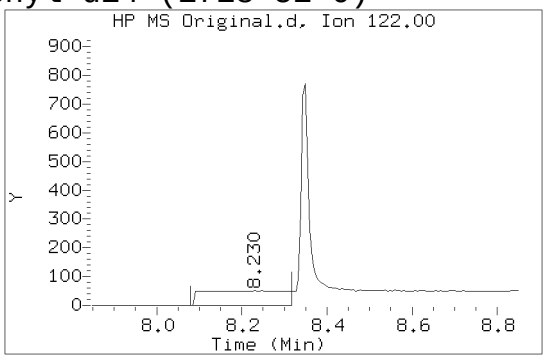
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

4-Terphenyl-d14 (1718-51-0)

Reason Code:

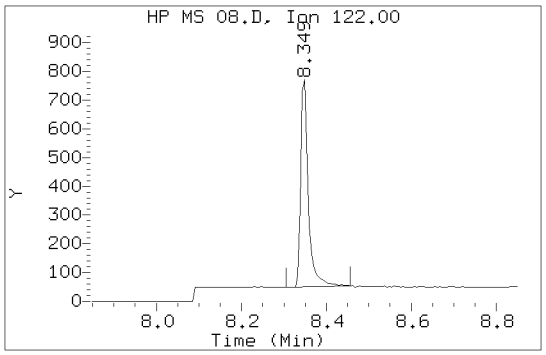
BEFORE

MASS
122
AREA
681
HEIGHT
51
31-May-2024
15:56
ALSHS
Server



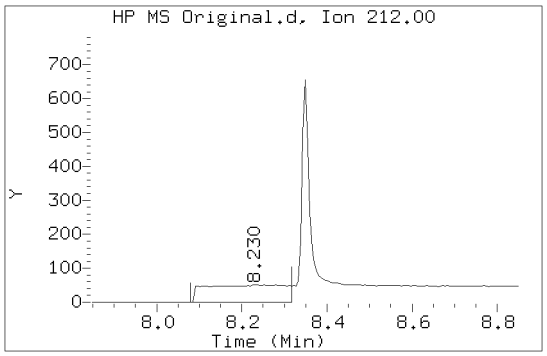
AFTER

MASS
122
AREA
887
HEIGHT
721
31-May-2024
16:14



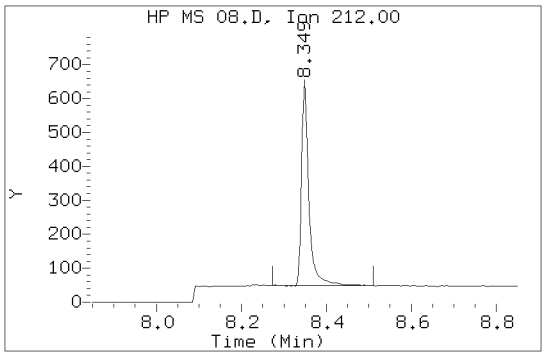
BEFORE

MASS
212
AREA
671
HEIGHT
52
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
212
AREA
705
HEIGHT
605
31-May-2024
16:14

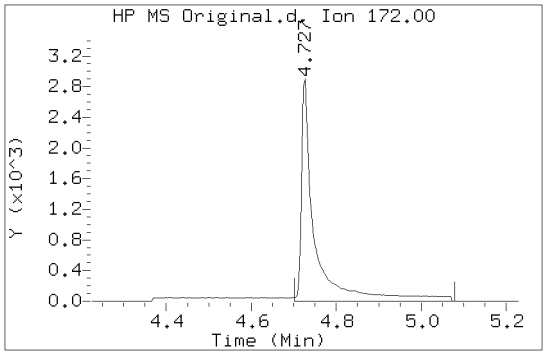


2-Fluorobiphenyl (321-60-8)

Reason Code:

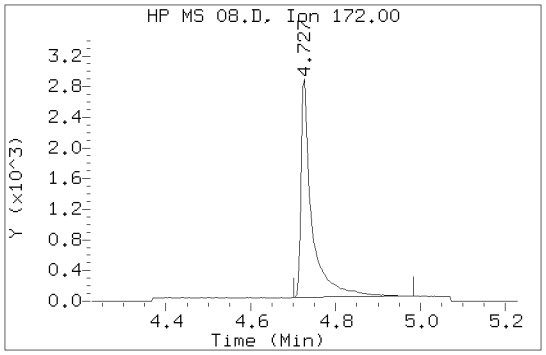
BEFORE

MASS
172
AREA
6438
HEIGHT
2901
31-May-2024
15:56
ALSHS
Server



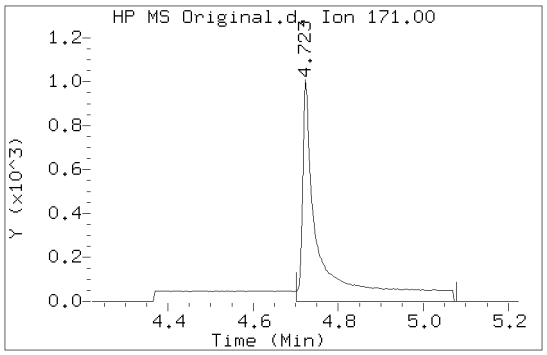
AFTER

MASS
172
AREA
5114
HEIGHT
2852
31-May-2024
16:14



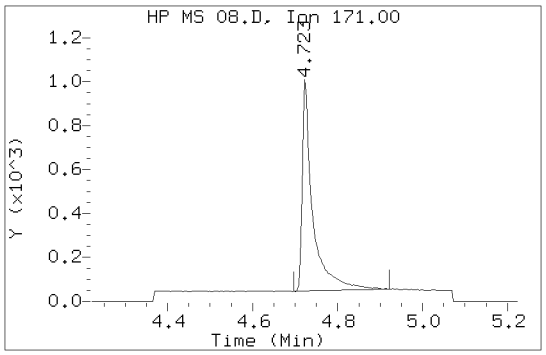
BEFORE

MASS
171
AREA
2822
HEIGHT
1009
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
171
AREA
1666
HEIGHT
961
31-May-2024
16:14



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D Page 1
Report Date: 31-May-2024 16:18

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Lab Smp Id: LCSD-212606
Inj Date : 31-MAY-2024 15:58
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i 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	2.685	2.685	(1.000)	1770	0.10000	(aM)
* 45 Naphthalene-d8	136	3.727	3.723	(1.000)	6174	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.135	3.125	(0.841)	1258	0.06787	0.06787(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	3820	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	3840	0.06576	0.06576(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	7101	0.10000	(M)
* 182 Chrysene-d12	240	9.457	9.456	(1.000)	6979	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	9629	0.06773	0.06773(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	7163	0.10000	(M)
1 1,4-Dioxane	58	1.260	1.275	(0.469)	272	0.07174	0.07174(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\240531.b\09.D

Date : 31-MAY-2024 15:58

Client ID:

Instrument: SV6.i

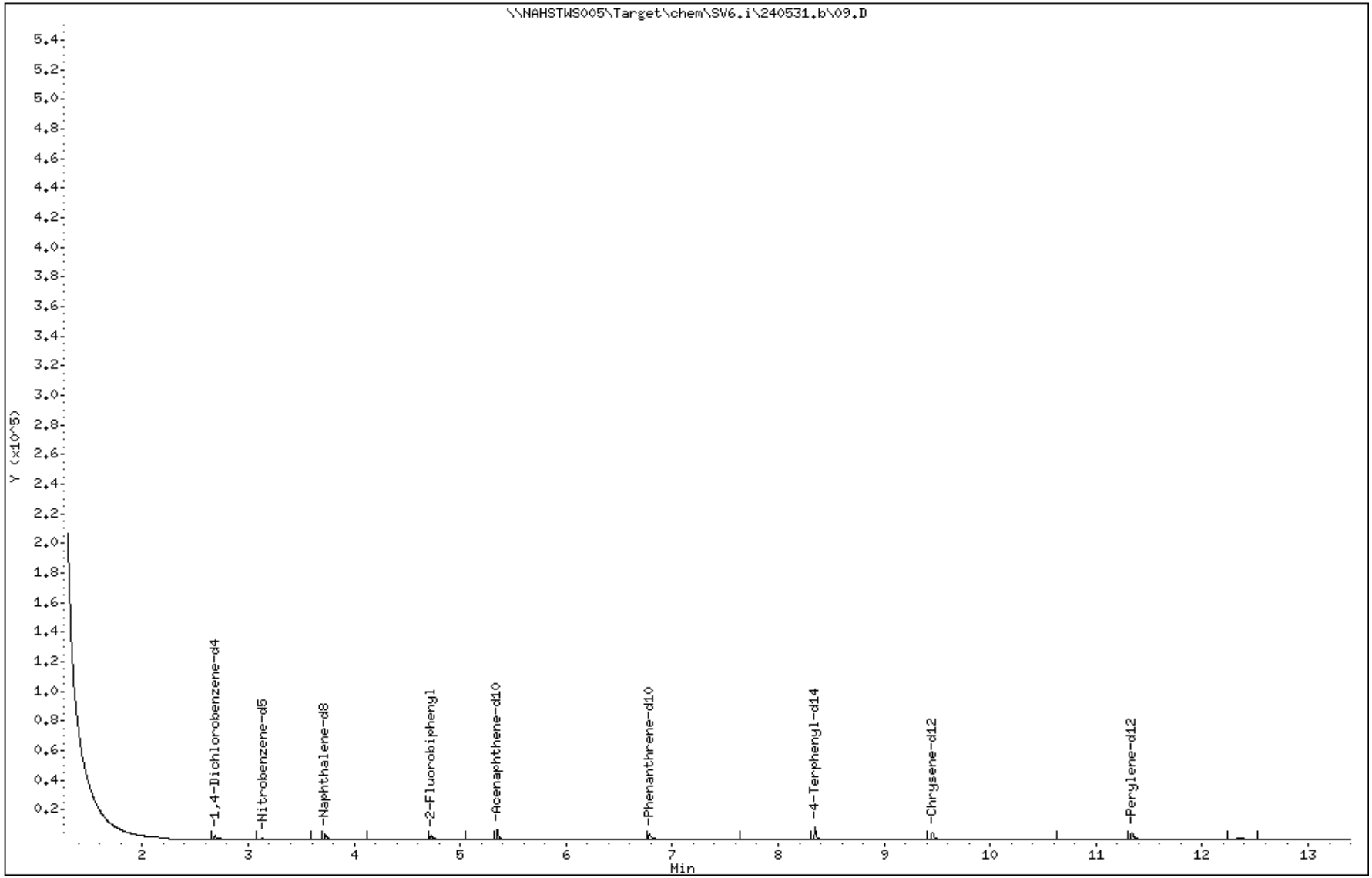
Sample Info: LCSD-212606

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

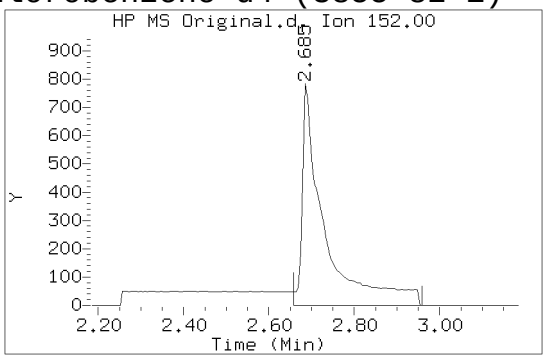


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

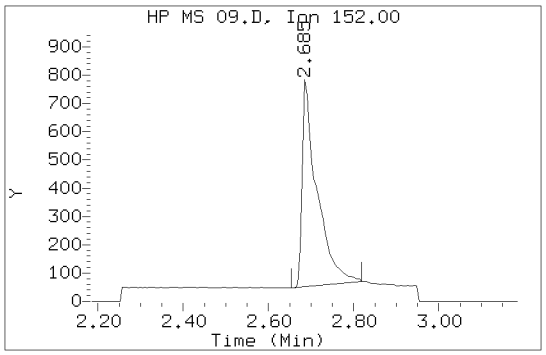
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

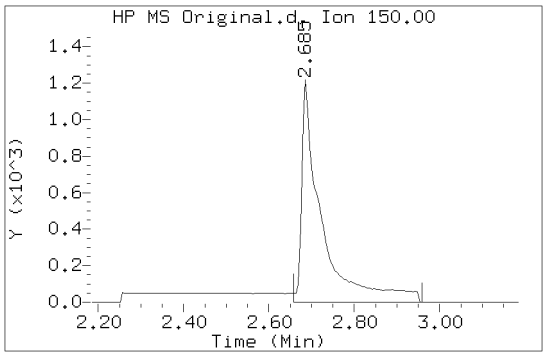
BEFORE
MASS
152
AREA
2821
HEIGHT
784
31-May-2024
16:15
ALSHS
Server



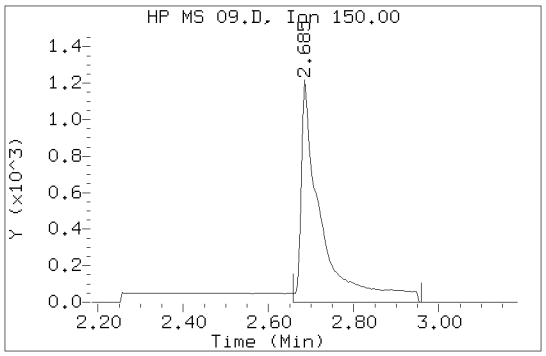
AFTER
MASS
152
AREA
1770
HEIGHT
731
31-May-2024
16:18



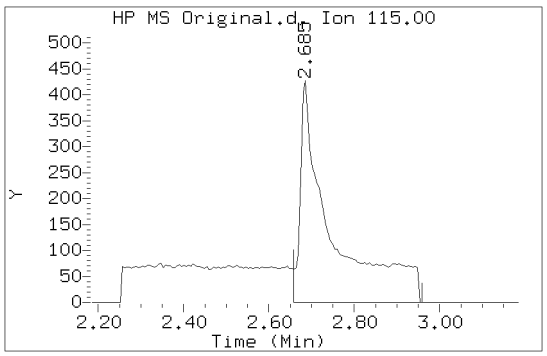
BEFORE
MASS
150
AREA
3936
HEIGHT
1218
31-May-2024
16:15
ALSHS
Server



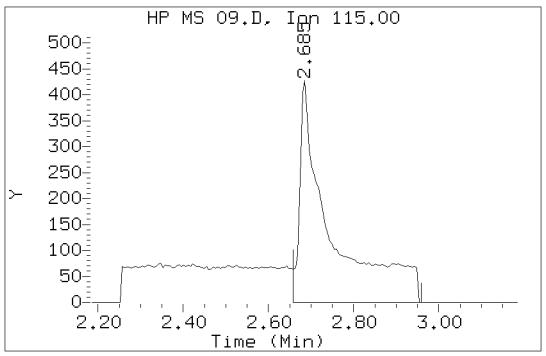
AFTER
MASS
150
AREA
3936
HEIGHT
1218
31-May-2024
16:18



BEFORE
MASS
115
AREA
2135
HEIGHT
427
31-May-2024
16:15
ALSHS
Server



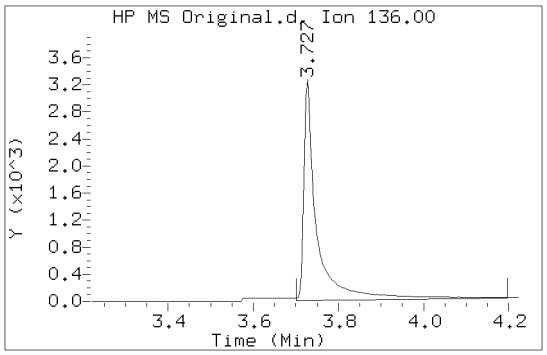
AFTER
MASS
115
AREA
2135
HEIGHT
427
31-May-2024
16:18



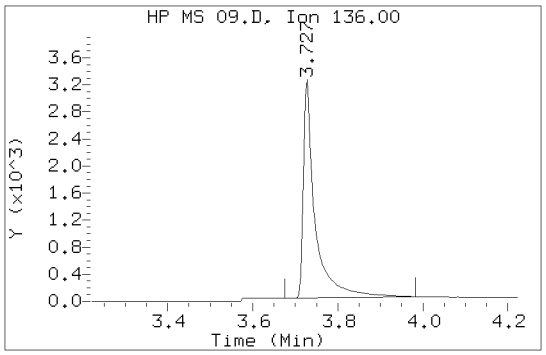
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
7091
HEIGHT
3264
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
136
AREA
6174
HEIGHT
3224
31-May-2024
16:18



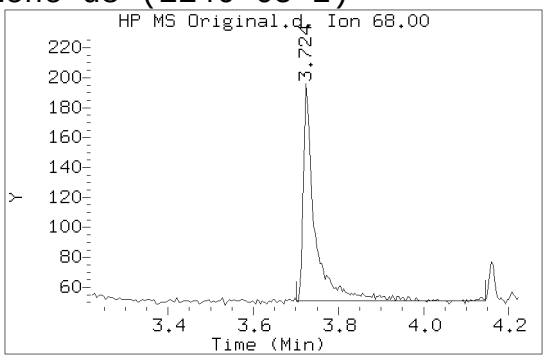
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

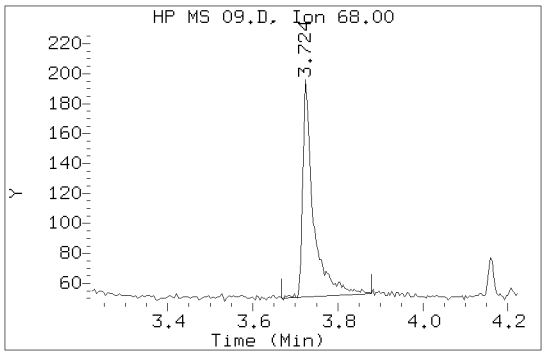
BEFORE

MASS
68
AREA
277
HEIGHT
145
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
68
AREA
257
HEIGHT
145
31-May-2024
16:18

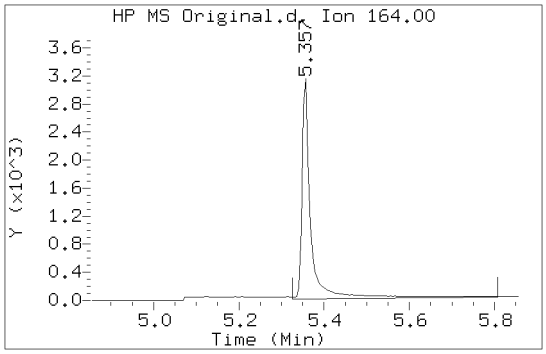


Acenaphthene-d10 (15067-26-2)

Reason Code:

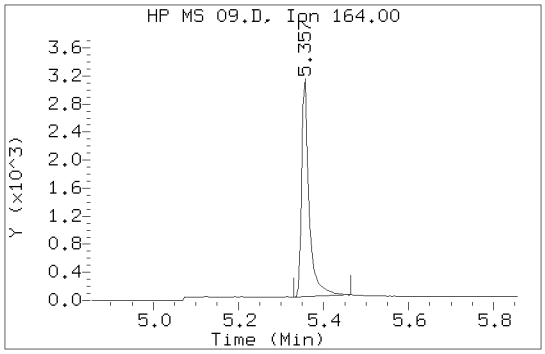
BEFORE

MASS
164
AREA
4564
HEIGHT
3140
31-May-2024
16:15
ALSHS
Server



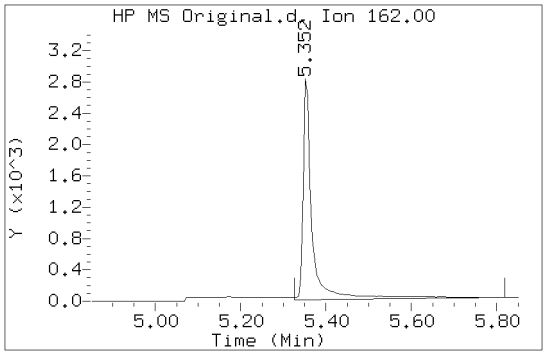
AFTER

MASS
164
AREA
3820
HEIGHT
3107
31-May-2024
16:18



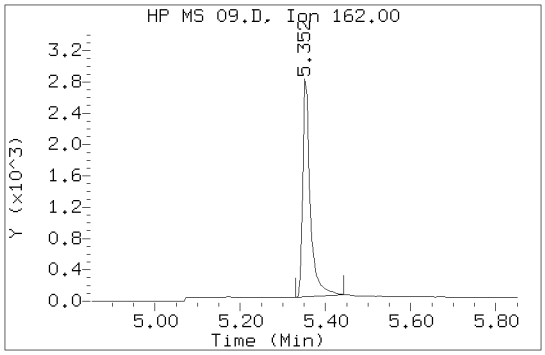
BEFORE

MASS
162
AREA
4208
HEIGHT
2820
31-May-2024
16:15
ALSHS
Server



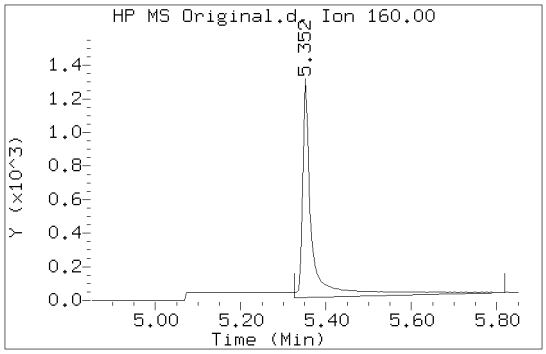
AFTER

MASS
162
AREA
3423
HEIGHT
2783
31-May-2024
16:18



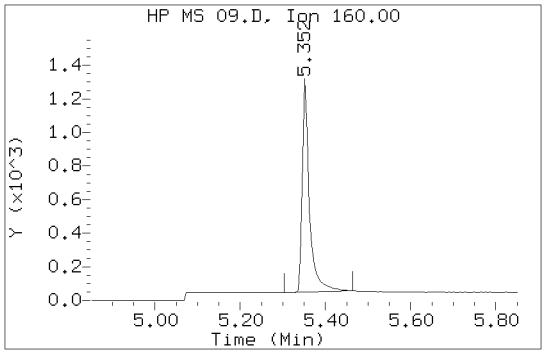
BEFORE

MASS
160
AREA
2078
HEIGHT
1303
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
160
AREA
1490
HEIGHT
1271
31-May-2024
16:18

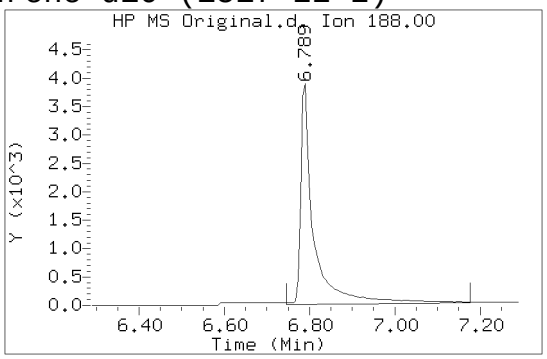


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Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

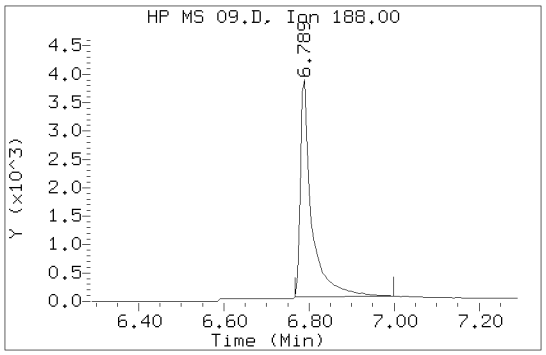
Phenanthrene-d10 (1517-22-2)

Reason Code:

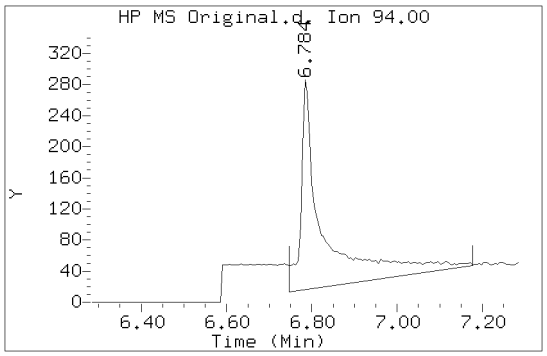
BEFORE
MASS
188
AREA
8327
HEIGHT
3885
31-May-2024
16:15
ALSHS
Server



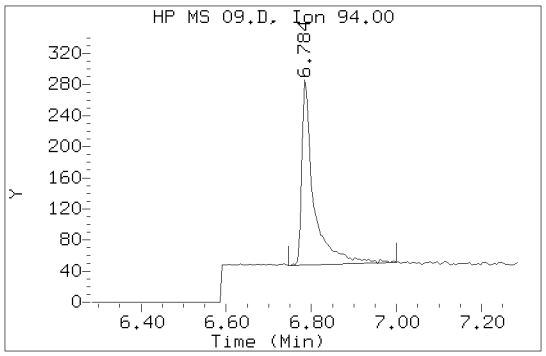
AFTER
MASS
188
AREA
7101
HEIGHT
3823
31-May-2024
16:18



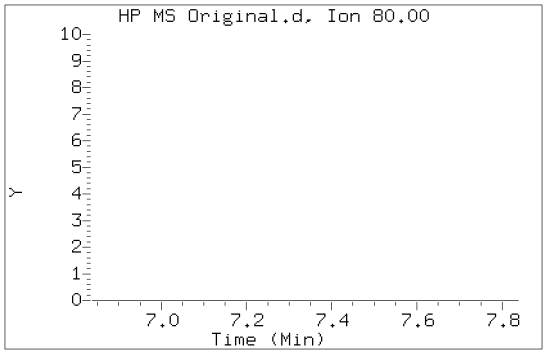
BEFORE
MASS
94
AREA
983
HEIGHT
270
31-May-2024
16:15
ALSHS
Server



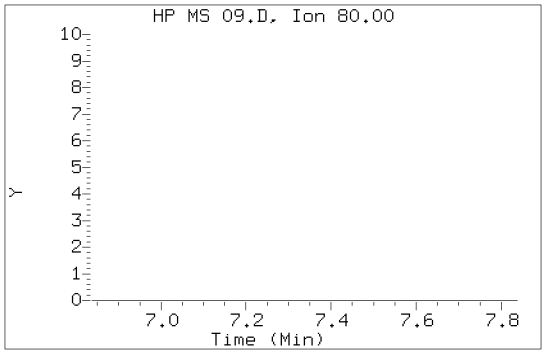
AFTER
MASS
94
AREA
471
HEIGHT
238
31-May-2024
16:18



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



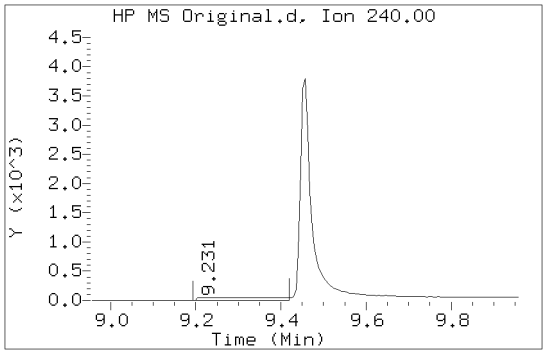
AFTER
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:18



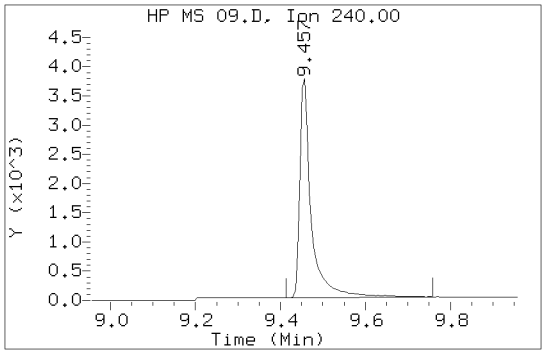
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
610
HEIGHT
47
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
240
AREA
6979
HEIGHT
3746
31-May-2024
16:18

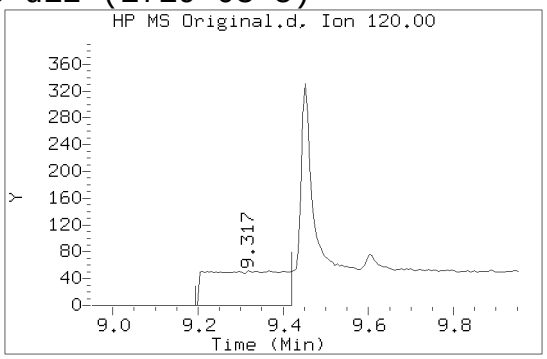


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Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

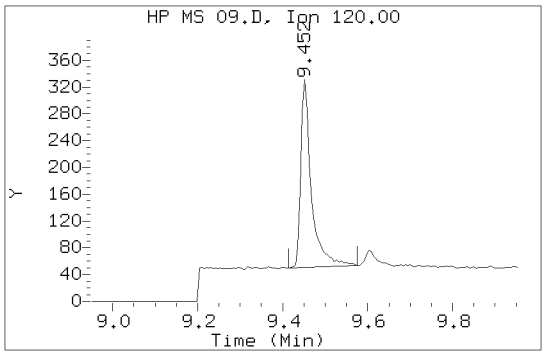
Chrysene-d12 (1719-03-5)

Reason Code:

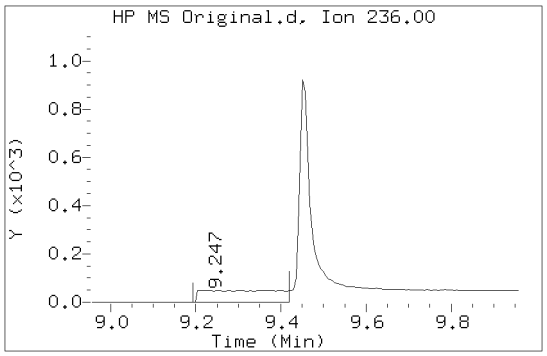
BEFORE
MASS
120
AREA
660
HEIGHT
52
31-May-2024
16:15
ALSHS
Server



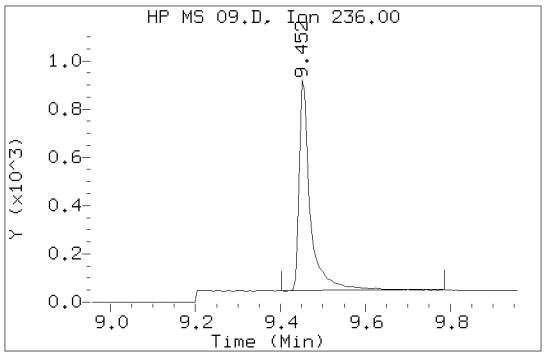
AFTER
MASS
120
AREA
477
HEIGHT
280
31-May-2024
16:18



BEFORE
MASS
236
AREA
619
HEIGHT
48
31-May-2024
16:15
ALSHS
Server



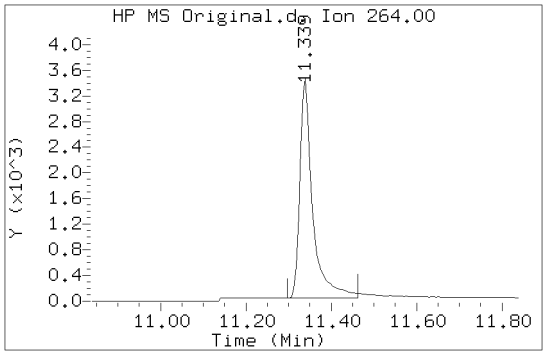
AFTER
MASS
236
AREA
1568
HEIGHT
872
31-May-2024
16:18



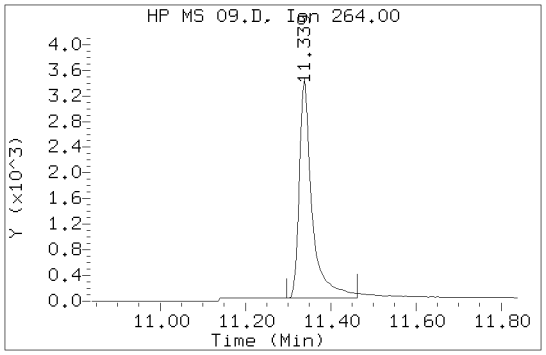
Perylene-d12 (1520-96-3)

Reason Code:

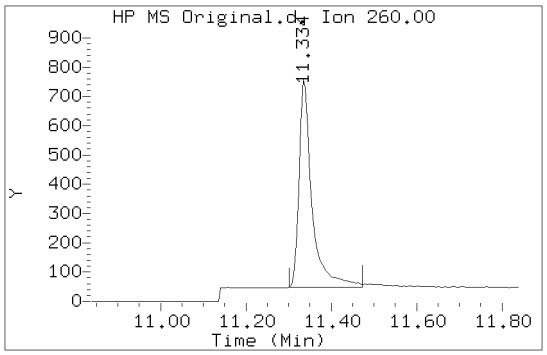
BEFORE
MASS
264
AREA
7163
HEIGHT
3416
31-May-2024
16:15
ALSHS
Server



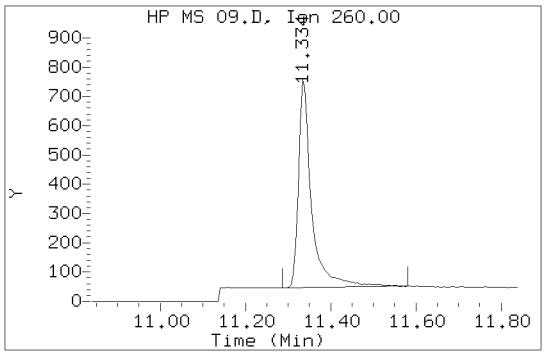
AFTER
MASS
264
AREA
7163
HEIGHT
3416
31-May-2024
16:18



BEFORE
MASS
260
AREA
1501
HEIGHT
709
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
260
AREA
1508
HEIGHT
709
31-May-2024
16:18



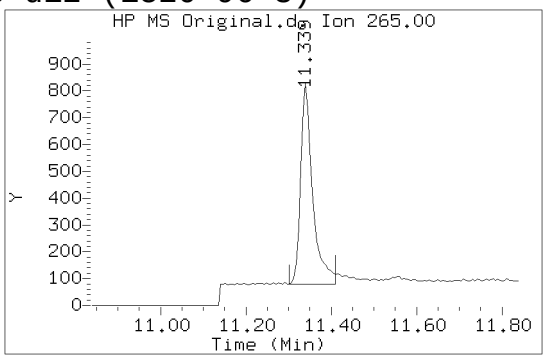
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Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

Perylene-d12 (1520-96-3)

Reason Code:

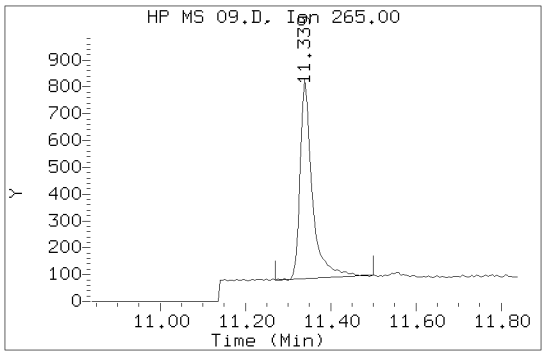
BEFORE

MASS
265
AREA
1468
HEIGHT
747
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
265
AREA
1479
HEIGHT
742
31-May-2024
16:18

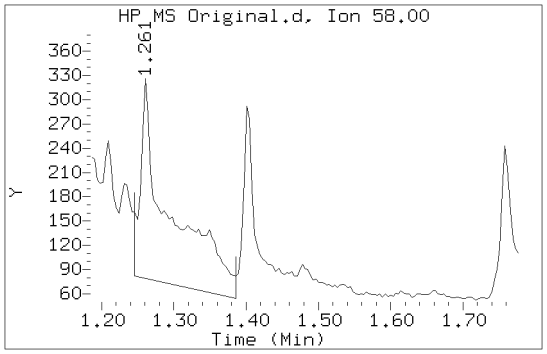


1,4-Dioxane ()

Reason Code:

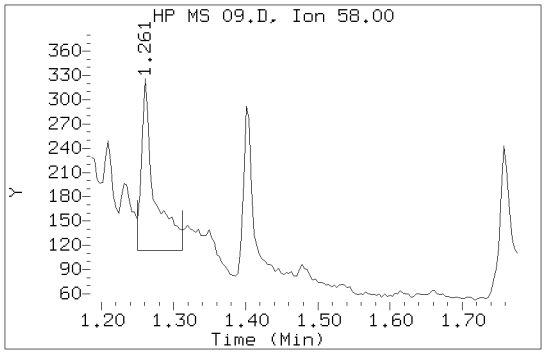
BEFORE

MASS
58
AREA
700
HEIGHT
246
31-May-2024
16:15
ALSHS
Server



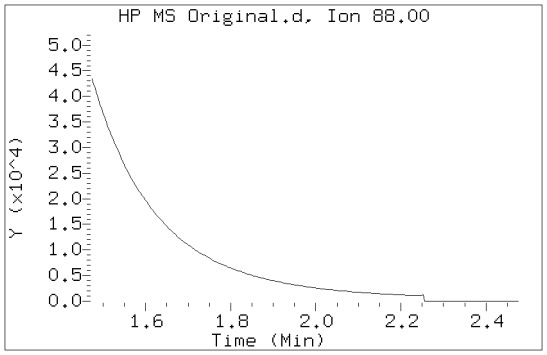
AFTER

MASS
58
AREA
272
HEIGHT
212
31-May-2024
16:18



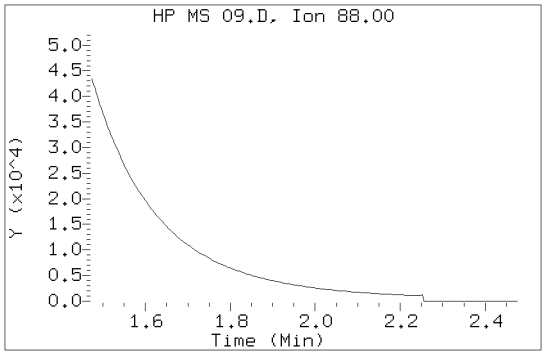
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:18

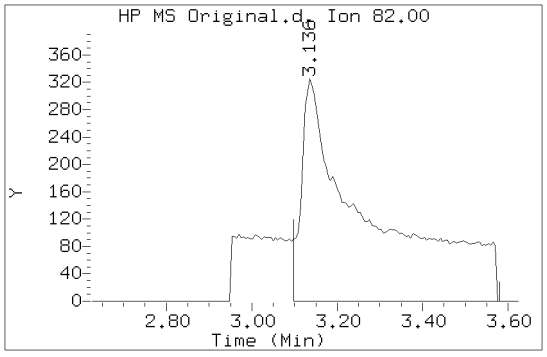


Nitrobenzene-d5 (4165-60-0)

Reason Code:

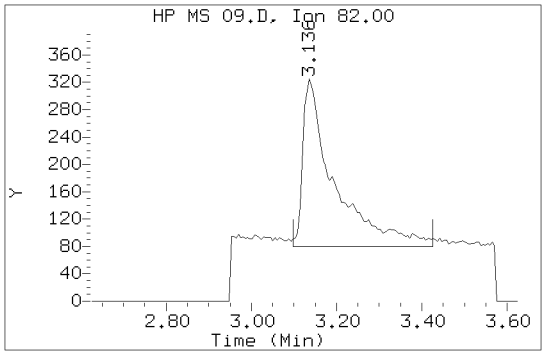
BEFORE

MASS
82
AREA
3588
HEIGHT
325
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
82
AREA
1258
HEIGHT
245
31-May-2024
16:18

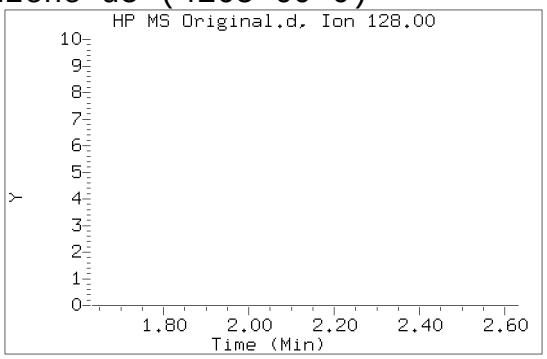


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Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

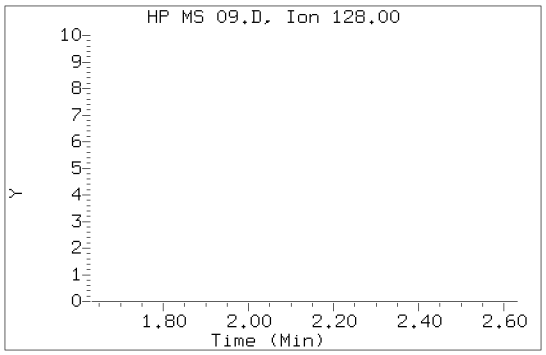
Nitrobenzene-d5 (4165-60-0)

Reason Code:

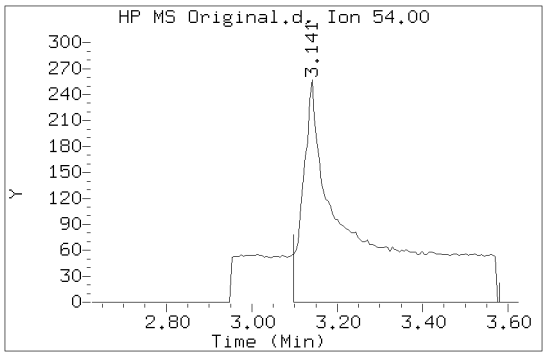
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



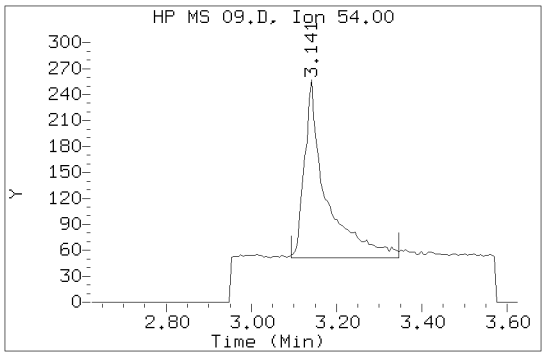
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:18



BEFORE
MASS
54
AREA
2251
HEIGHT
257
31-May-2024
16:15
ALSHS
Server



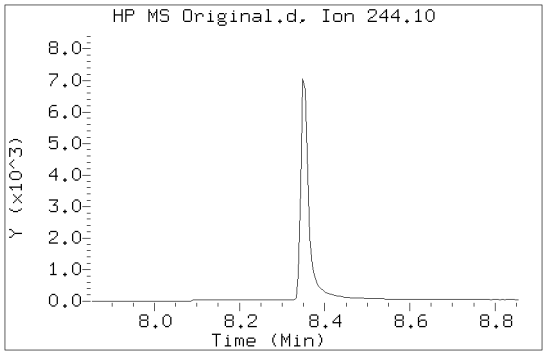
AFTER
MASS
54
AREA
733
HEIGHT
206
31-May-2024
16:18



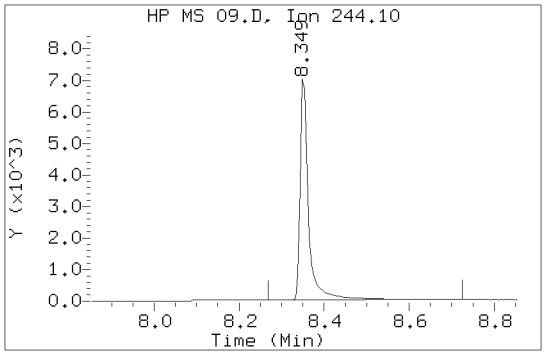
4-Terphenyl-d14 (1718-51-0)

Reason Code:

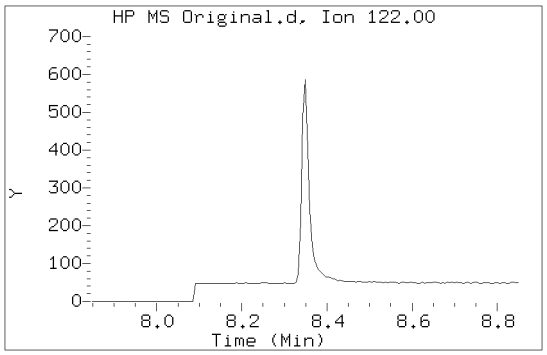
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



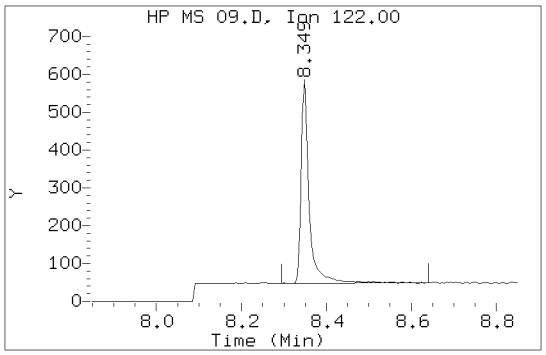
AFTER
MASS
244.1
AREA
9629
HEIGHT
7001
31-May-2024
16:18



BEFORE
MASS
122
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
122
AREA
695
HEIGHT
537
31-May-2024
16:18



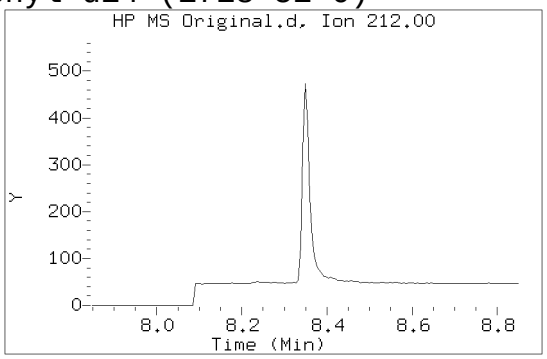
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

4-Terphenyl-d14 (1718-51-0)

Reason Code:

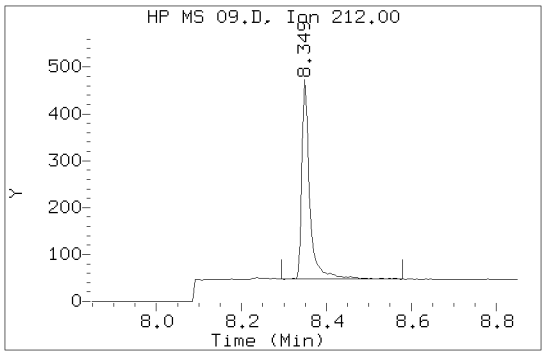
BEFORE

MASS
212
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
212
AREA
536
HEIGHT
425
31-May-2024
16:18

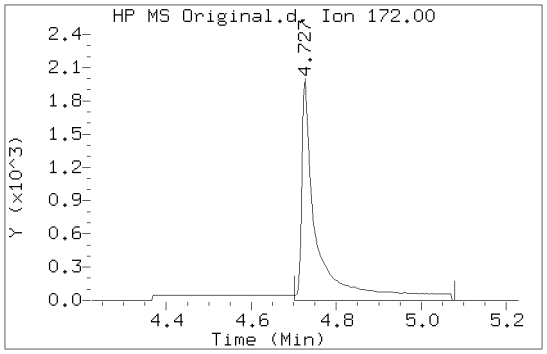


2-Fluorobiphenyl (321-60-8)

Reason Code:

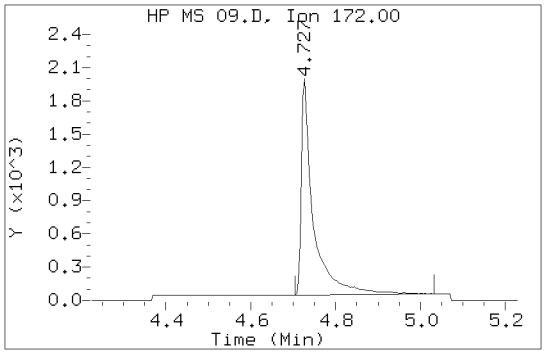
BEFORE

MASS
172
AREA
5072
HEIGHT
2000
31-May-2024
16:15
ALSHS
Server



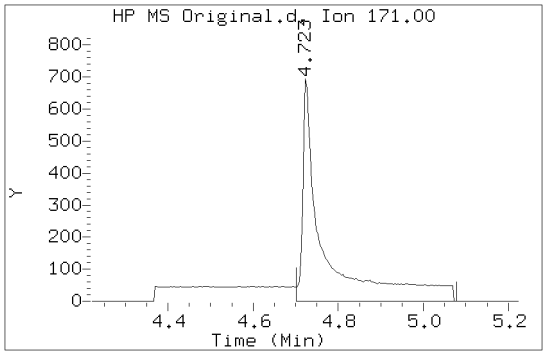
AFTER

MASS
172
AREA
3840
HEIGHT
1951
31-May-2024
16:18



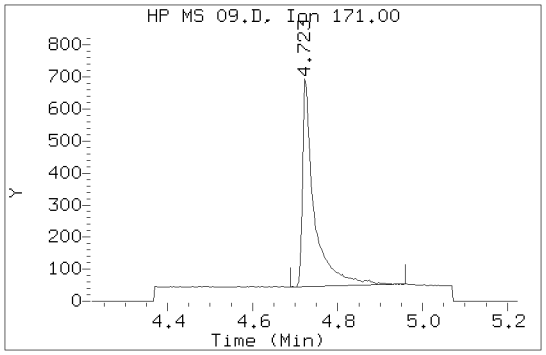
BEFORE

MASS
171
AREA
2365
HEIGHT
694
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
171
AREA
1242
HEIGHT
647
31-May-2024
16:18



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D Page 1
Report Date: 31-May-2024 16:35

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

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Inj Date : 31-MAY-2024 16:16
Operator : LG Inst ID: SV6.i
Smp Info : HS24051276-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

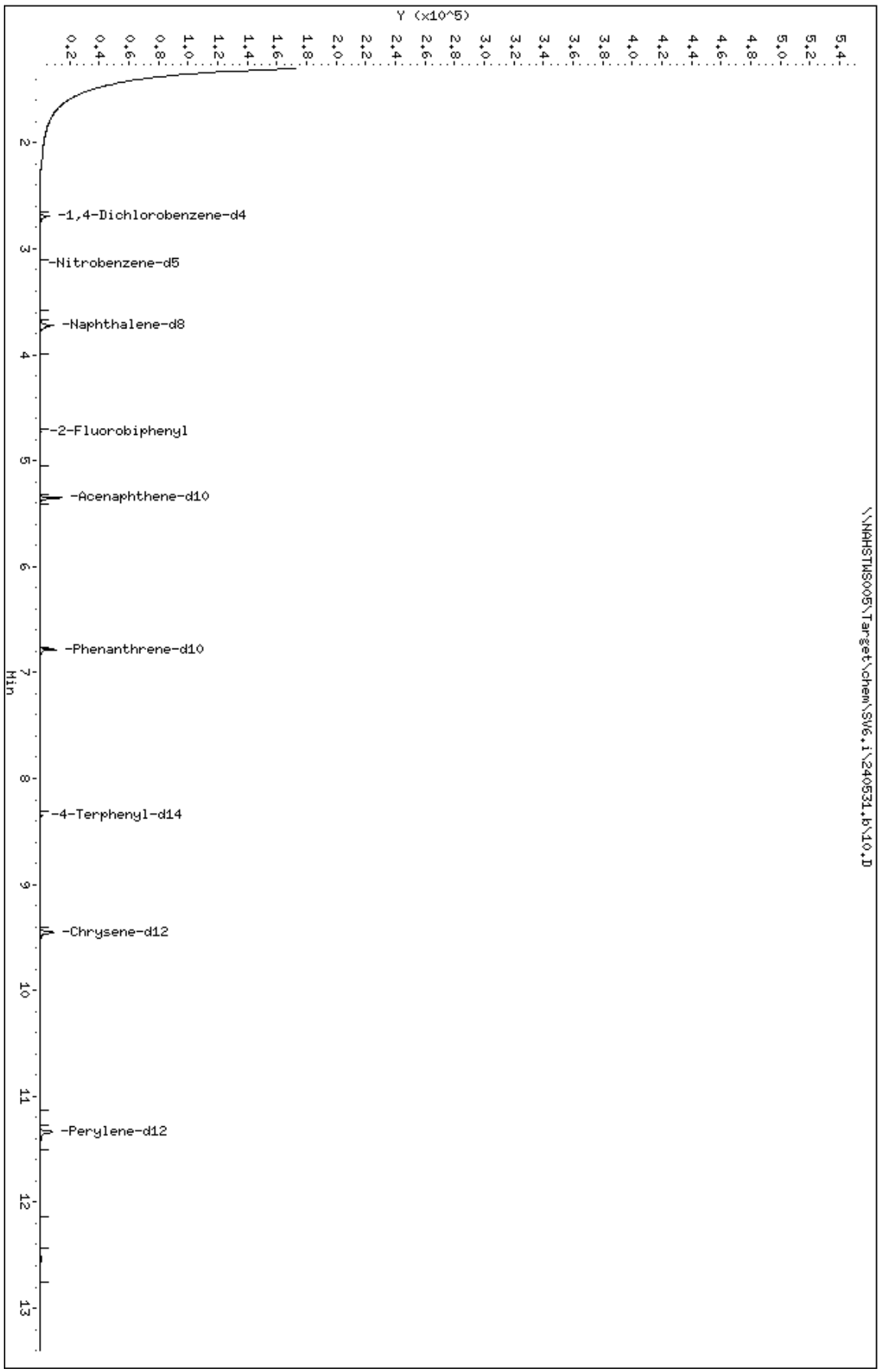
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	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	2.690	2.685	(1.000)	3609	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	11247	0.10000	(Q)
$ 33 Nitrobenzene-d5	82	3.146	3.125	(0.845)	244	0.00723	0.07226(M)
* 86 Acenaphthene-d10	164	5.351	5.356	(1.000)	6843	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.883)	798	0.00763	0.07629(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	12802	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.456	(1.000)	12085	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	1906	0.00774	0.07742(M)
* 198 Perylene-d12	264	11.334	11.339	(1.000)	12545	0.10000	
1 1,4-Dioxane	58	1.312	1.275	(0.488)	721	0.09327	0.9327

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\240531.b\10.D
Date : 31-MAY-2024 16:16
Client ID:
Sample Info: HS24051276-01X10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 1
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D

Date : 31-MAY-2024 16:16

Client ID:

Instrument: SV6.i

Sample Info: HS24051276-01X10

Purge Volume: 1000.0

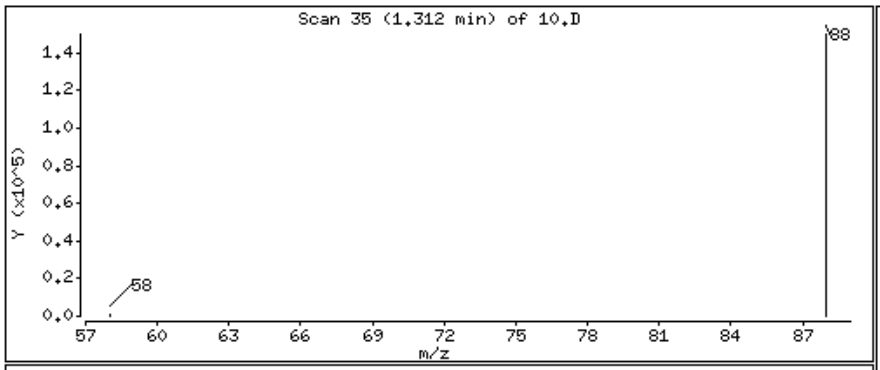
Operator: LG

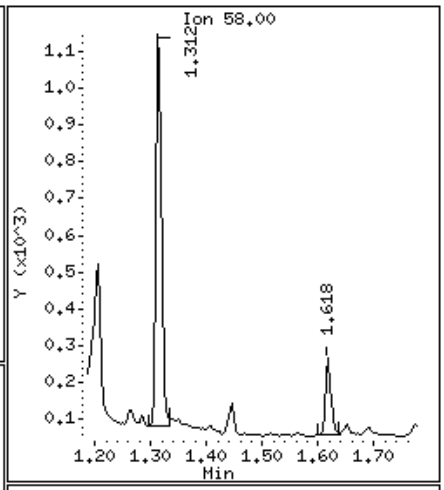
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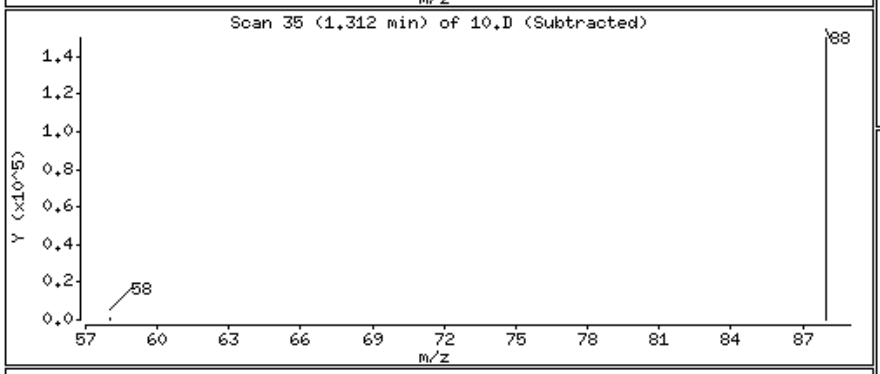
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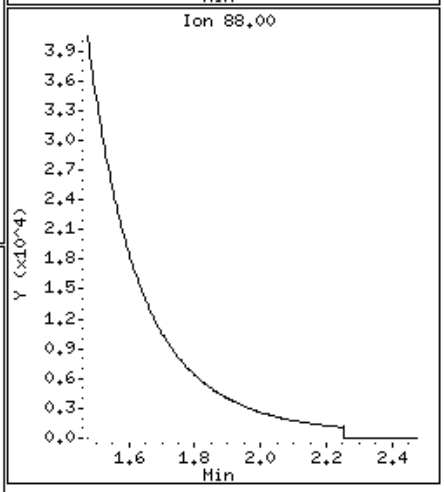
1 1,4-Dioxane

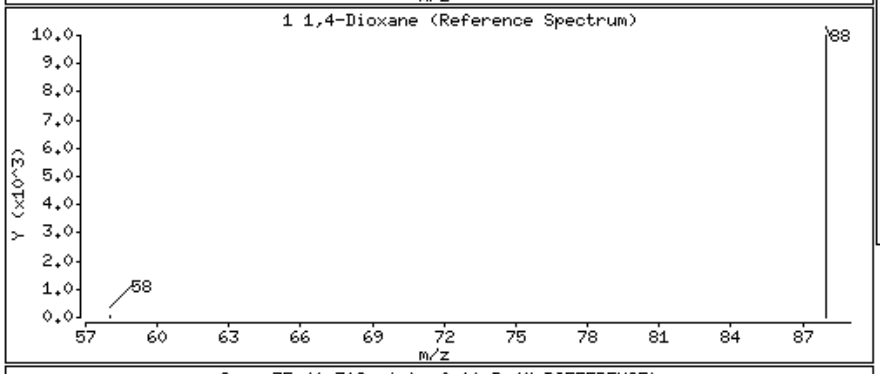
Concentration: 0.9327 ug/L

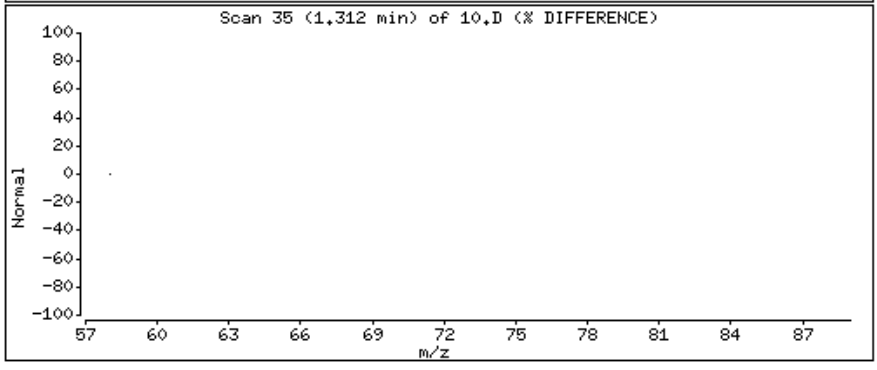












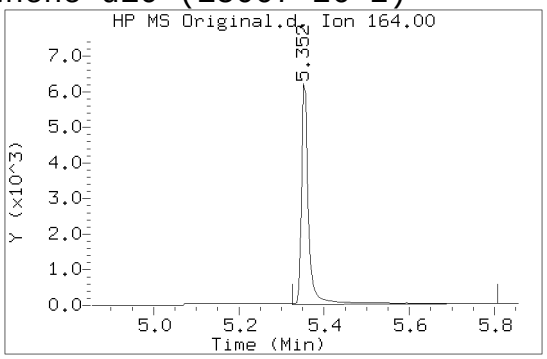
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Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

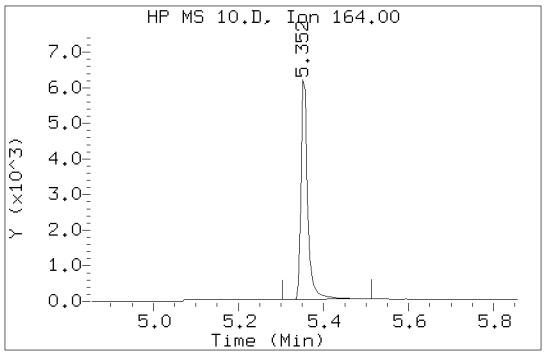
BEFORE

MASS
164
AREA
7573
HEIGHT
6205
31-May-2024
16:32
ALSHS
Server



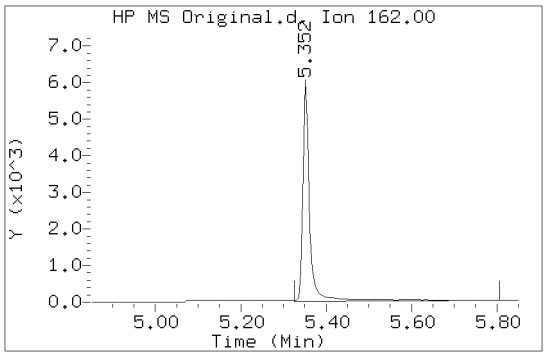
AFTER

MASS
164
AREA
6843
HEIGHT
6170
31-May-2024
16:35



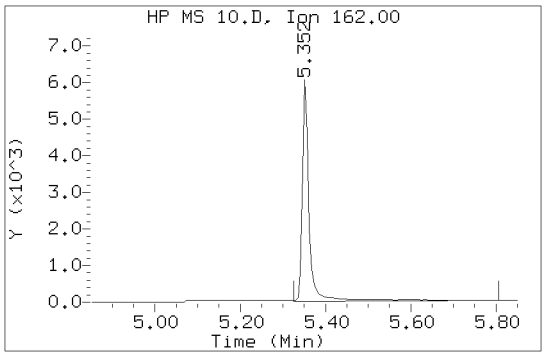
BEFORE

MASS
162
AREA
6972
HEIGHT
6053
31-May-2024
16:32
ALSHS
Server



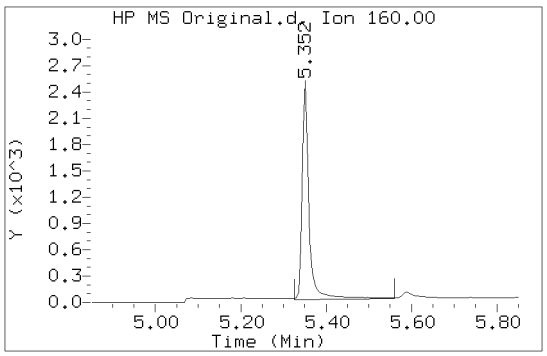
AFTER

MASS
162
AREA
6972
HEIGHT
6053
31-May-2024
16:35



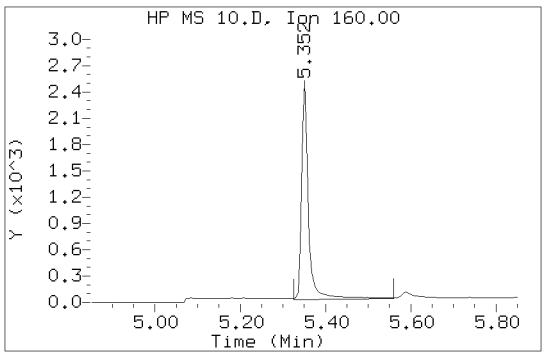
BEFORE

MASS
160
AREA
2851
HEIGHT
2499
31-May-2024
16:32
ALSHS
Server



AFTER

MASS
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2499
31-May-2024
16:35

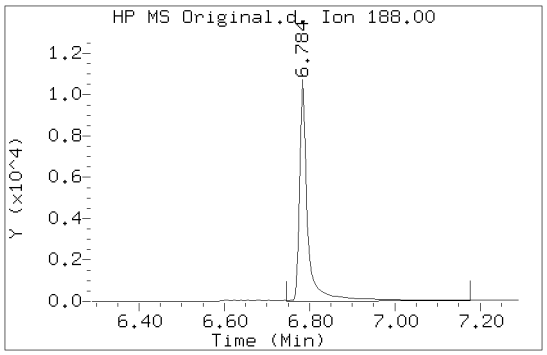


Phenanthrene-d10 (1517-22-2)

Reason Code:

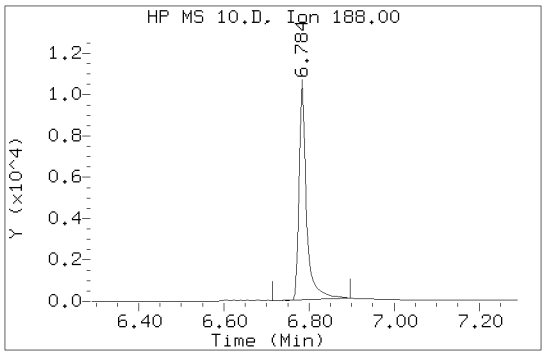
BEFORE

MASS
188
AREA
14371
HEIGHT
10702
31-May-2024
16:32
ALSHS
Server



AFTER

MASS
188
AREA
12802
HEIGHT
10635
31-May-2024
16:35

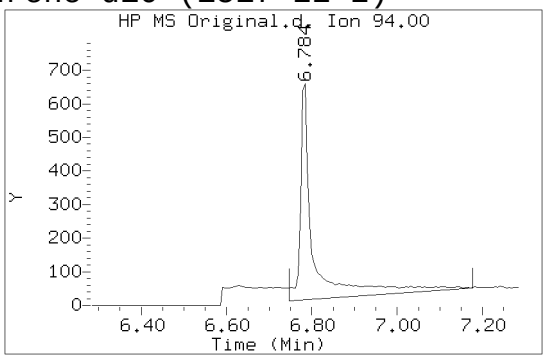


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D
Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

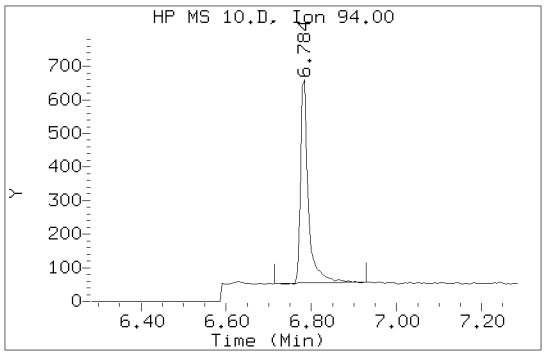
Phenanthrene-d10 (1517-22-2)

Reason Code:

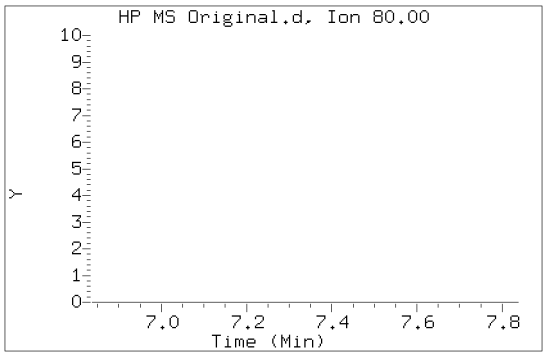
BEFORE
MASS
94
AREA
1356
HEIGHT
642
31-May-2024
16:32
ALSHS
Server



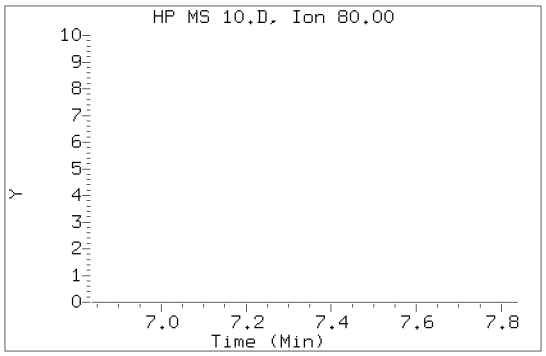
AFTER
MASS
94
AREA
784
HEIGHT
605
31-May-2024
16:35



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:32
ALSHS
Server



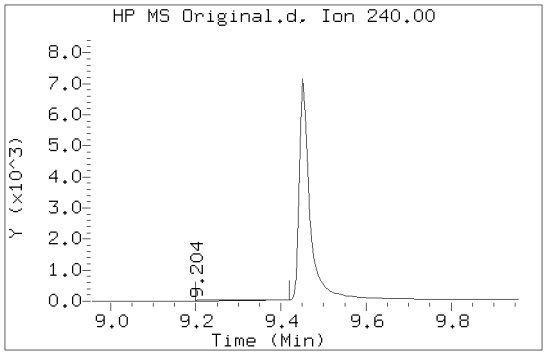
AFTER
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:35



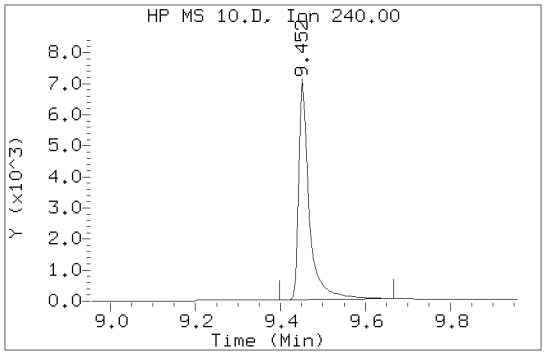
Chrysene-d12 (1719-03-5)

Reason Code:

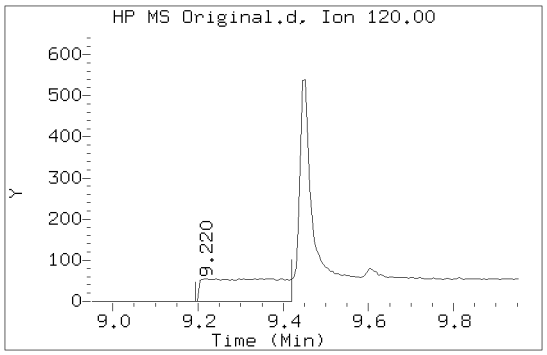
BEFORE
MASS
240
AREA
297
HEIGHT
46
31-May-2024
16:32
ALSHS
Server



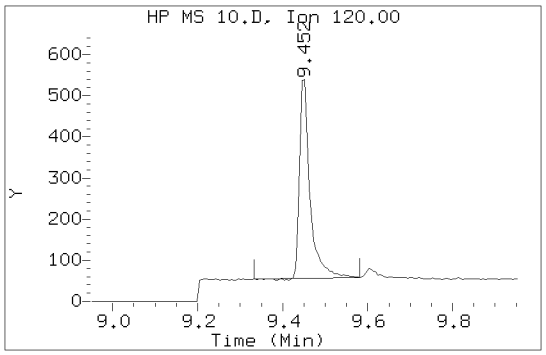
AFTER
MASS
240
AREA
12085
HEIGHT
7103
31-May-2024
16:35



BEFORE
MASS
120
AREA
704
HEIGHT
55
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
120
AREA
822
HEIGHT
483
31-May-2024
16:35



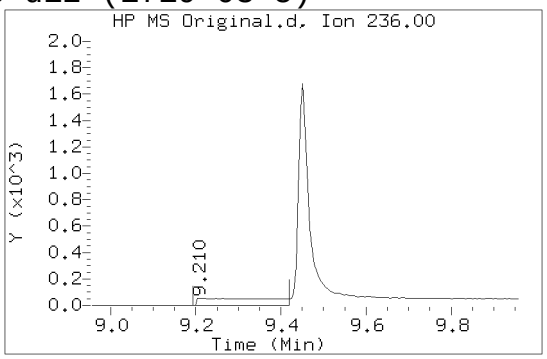
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D
Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

Chrysene-d12 (1719-03-5)

Reason Code:

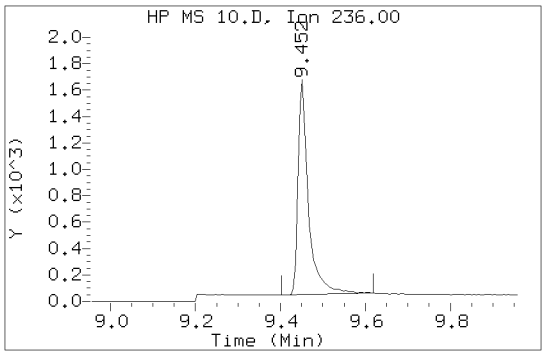
BEFORE

MASS
236
AREA
650
HEIGHT
52
31-May-2024
16:32
ALSHS
Server



AFTER

MASS
236
AREA
2755
HEIGHT
1627
31-May-2024
16:35

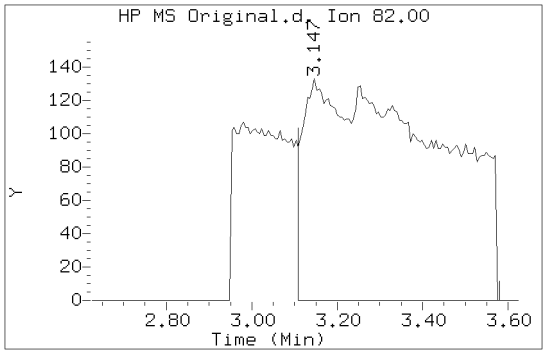


Nitrobenzene-d5 (4165-60-0)

Reason Code:

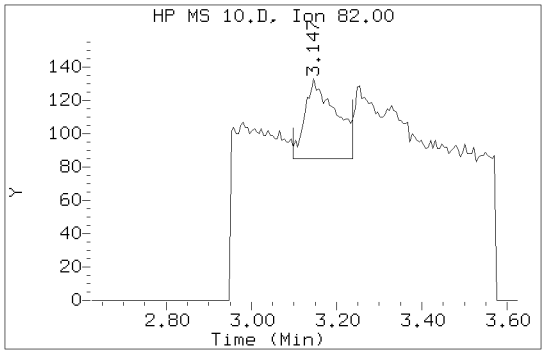
BEFORE

MASS
82
AREA
2910
HEIGHT
133
31-May-2024
16:32
ALSHS
Server



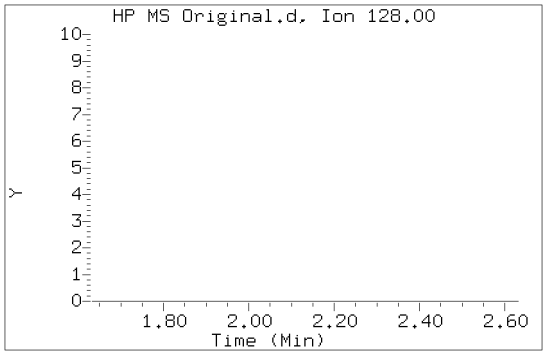
AFTER

MASS
82
AREA
244
HEIGHT
48
31-May-2024
16:35



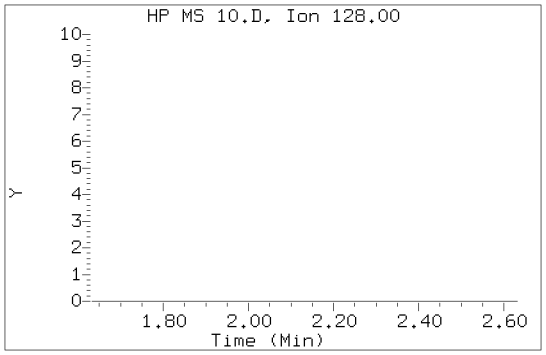
BEFORE

MASS
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AREA
0
HEIGHT
0
31-May-2024
16:32
ALSHS
Server



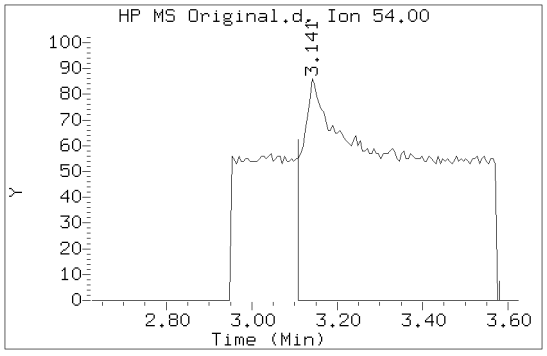
AFTER

MASS
128
AREA
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HEIGHT
0
31-May-2024
16:35



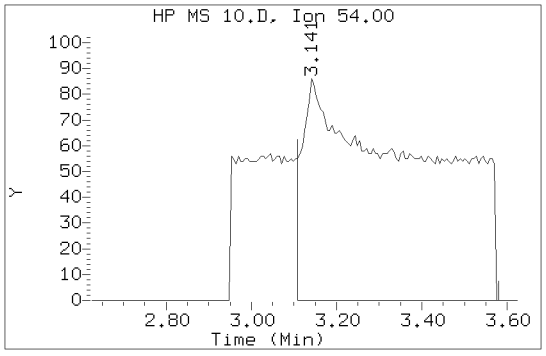
BEFORE

MASS
54
AREA
1654
HEIGHT
86
31-May-2024
16:32
ALSHS
Server



AFTER

MASS
54
AREA
1654
HEIGHT
86
31-May-2024
16:35

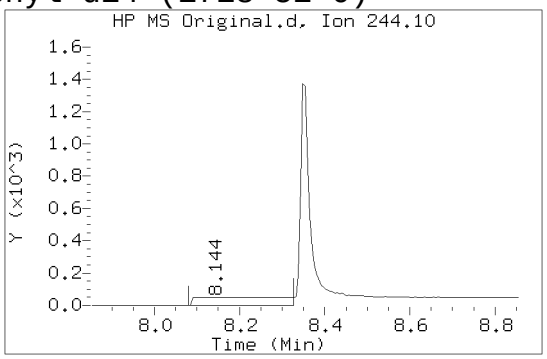


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Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

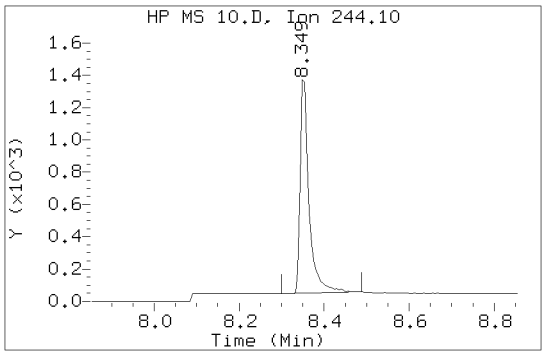
4-Terphenyl-d14 (1718-51-0)

Reason Code:

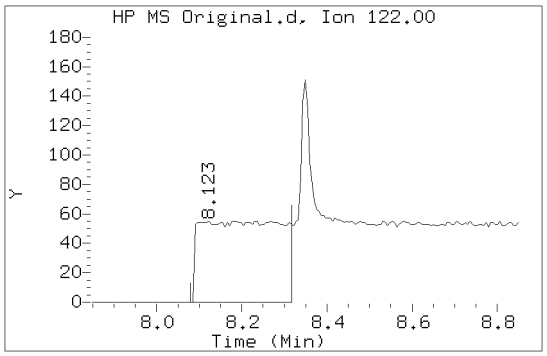
BEFORE
MASS
244.1
AREA
675
HEIGHT
48
31-May-2024
16:32
ALSHS
Server



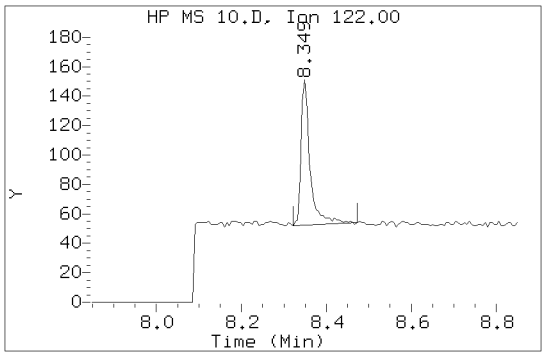
AFTER
MASS
244.1
AREA
1906
HEIGHT
1323
31-May-2024
16:35



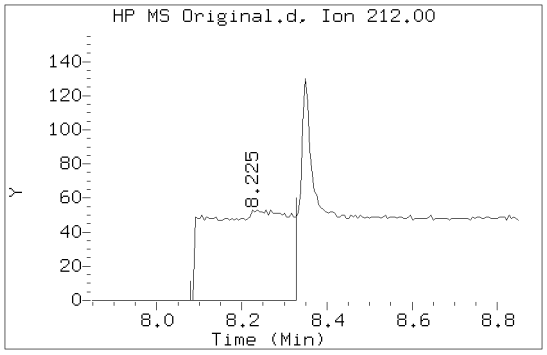
BEFORE
MASS
122
AREA
744
HEIGHT
55
31-May-2024
16:32
ALSHS
Server



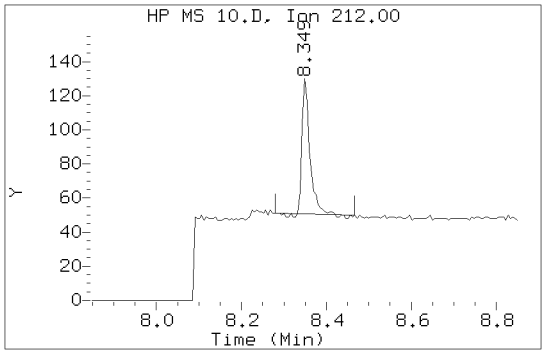
AFTER
MASS
122
AREA
143
HEIGHT
98
31-May-2024
16:35



BEFORE
MASS
212
AREA
716
HEIGHT
53
31-May-2024
16:32
ALSHS
Server



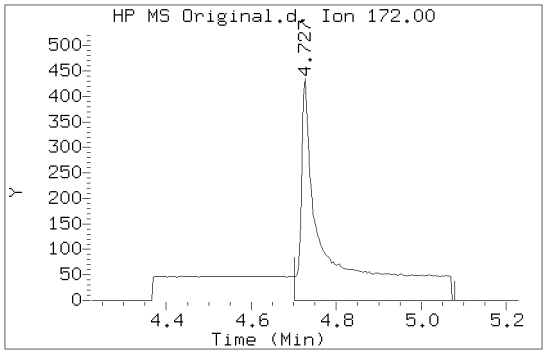
AFTER
MASS
212
AREA
96
HEIGHT
79
31-May-2024
16:35



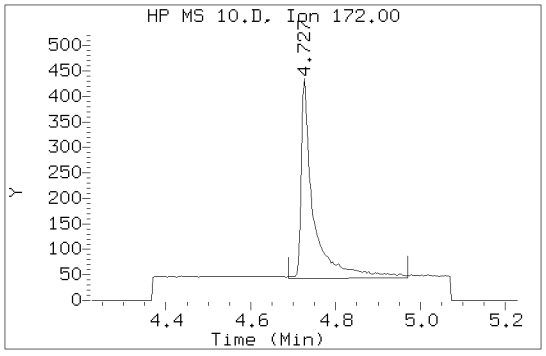
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
1805
HEIGHT
435
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
172
AREA
798
HEIGHT
391
31-May-2024
16:35



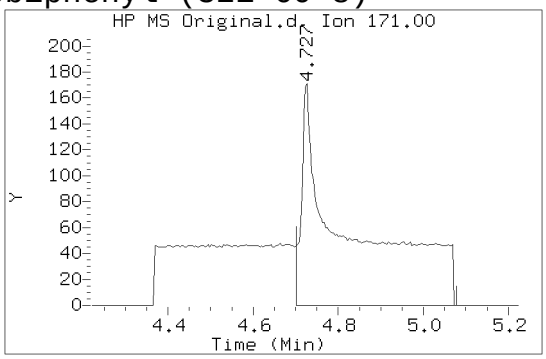
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Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

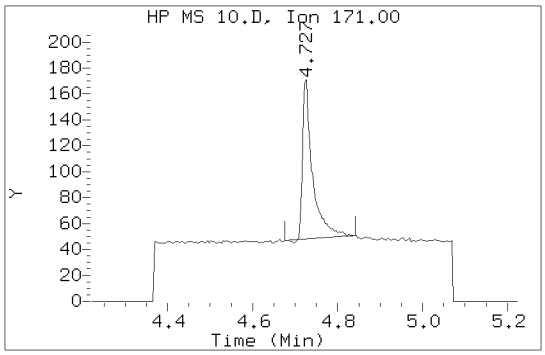
BEFORE

MASS
171
AREA
1283
HEIGHT
171
31-May-2024
16:32
ALSHS
Server



AFTER

MASS
171
AREA
199
HEIGHT
122
31-May-2024
16:35



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D Page 1
Report Date: 31-May-2024 17:05

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 31-MAY-2024 16:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 17:03 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

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	2.684	2.684	(1.000)	1927	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	6581	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.135	3.135	(0.841)	1347	0.08000	0.06818(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4073	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4403	0.08000	0.07072(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	7220	0.10000	(M)
* 182 Chrysene-d12	240	9.462	9.462	(1.000)	5630	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.359	8.359	(0.883)	7669	0.08000	0.06686(M)
* 198 Perylene-d12	264	11.344	11.344	(1.000)	7150	0.10000	
1 1,4-Dioxane	58	1.267	1.267	(0.472)	311	0.08000	0.07535(M)

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\240531.b\11.D

Date : 31-MAY-2024 16:38

Client ID: 14DX-0.08

Instrument: SV6.i

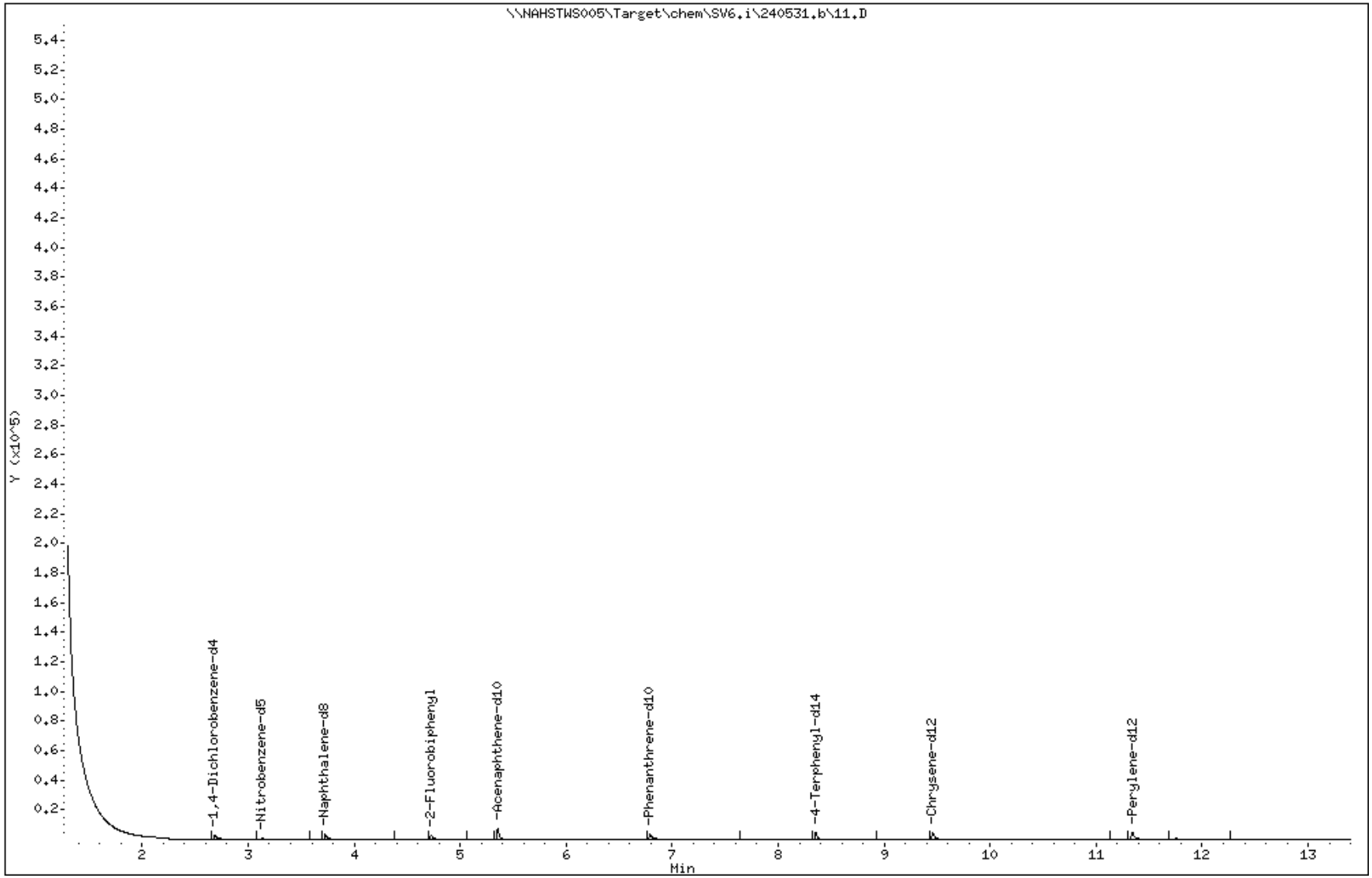
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



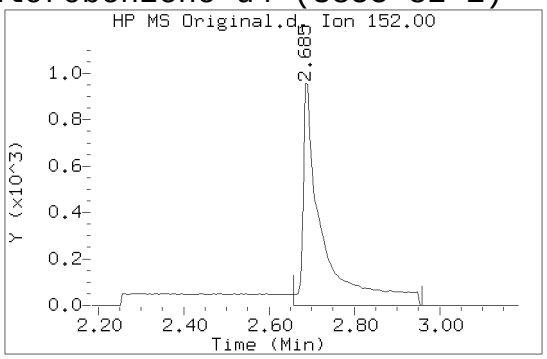
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

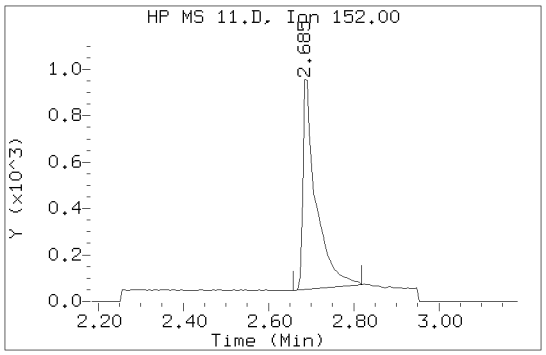
BEFORE

MASS
152
AREA
3006
HEIGHT
955
31-May-2024
16:54
ALSHS
Server



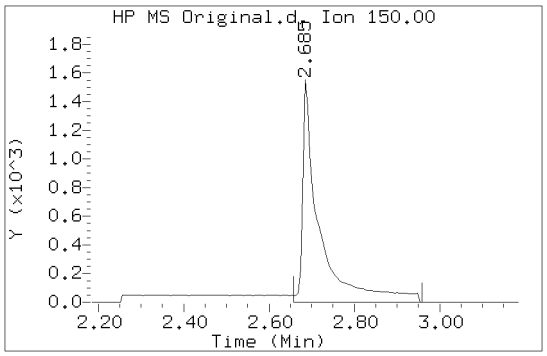
AFTER

MASS
152
AREA
1927
HEIGHT
902
31-May-2024
17:05



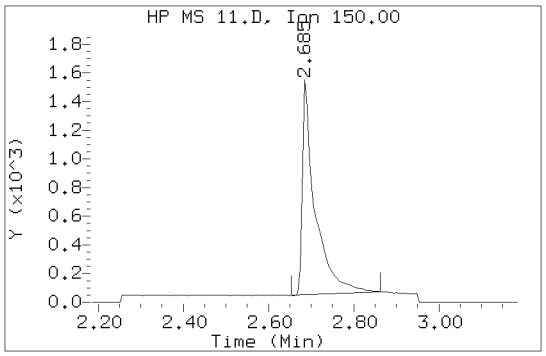
BEFORE

MASS
150
AREA
4217
HEIGHT
1552
31-May-2024
16:54
ALSHS
Server



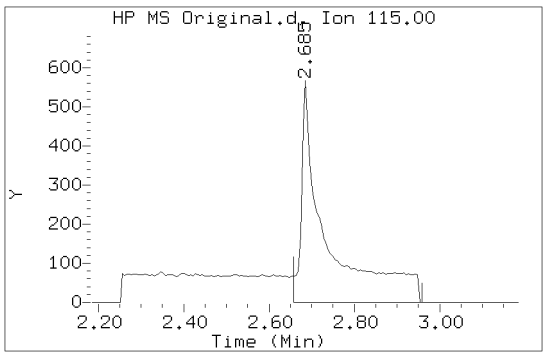
AFTER

MASS
150
AREA
3127
HEIGHT
1500
31-May-2024
17:05



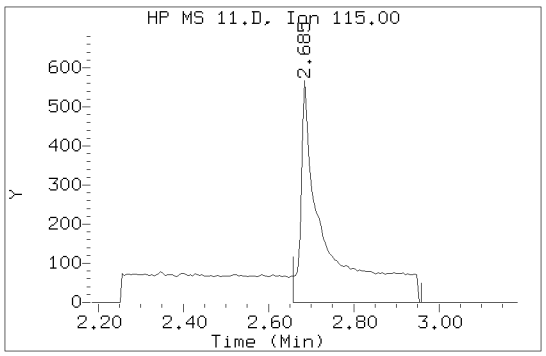
BEFORE

MASS
115
AREA
2271
HEIGHT
567
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
115
AREA
2271
HEIGHT
567
31-May-2024
17:05

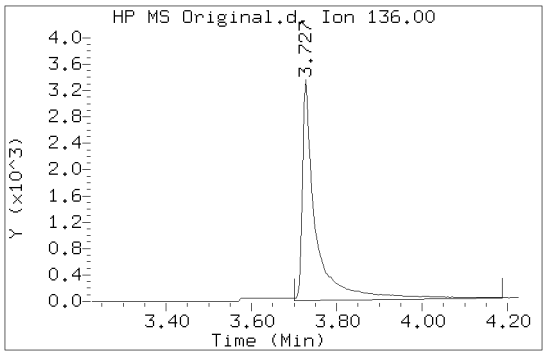


Naphthalene-d8 (1146-65-2)

Reason Code:

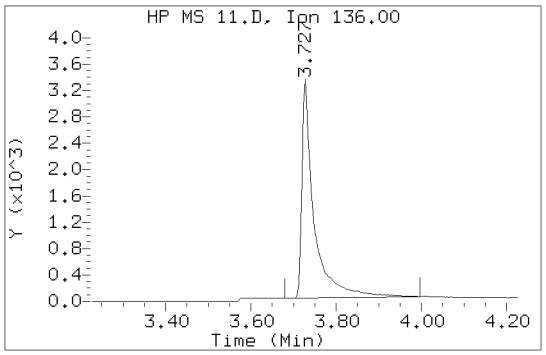
BEFORE

MASS
136
AREA
7531
HEIGHT
3351
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
136
AREA
6581
HEIGHT
3313
31-May-2024
17:05



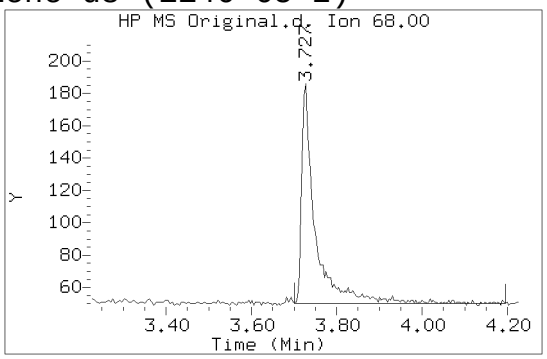
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Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

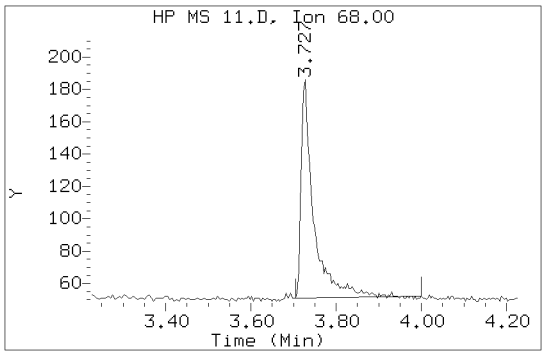
BEFORE

MASS
68
AREA
310
HEIGHT
136
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
68
AREA
275
HEIGHT
134
31-May-2024
17:05

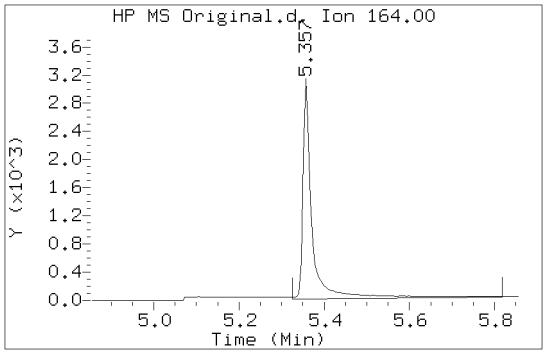


Acenaphthene-d10 (15067-26-2)

Reason Code:

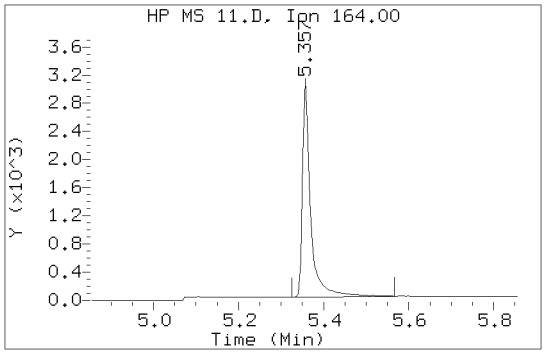
BEFORE

MASS
164
AREA
4716
HEIGHT
3129
31-May-2024
16:54
ALSHS
Server



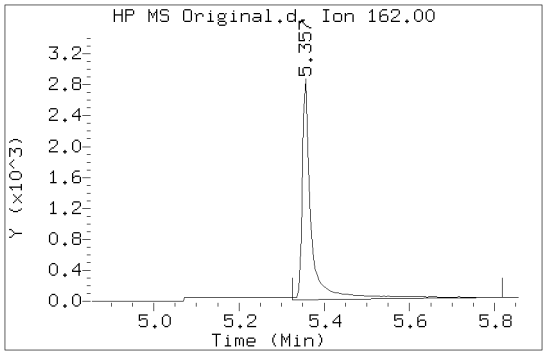
AFTER

MASS
164
AREA
4073
HEIGHT
3098
31-May-2024
17:05



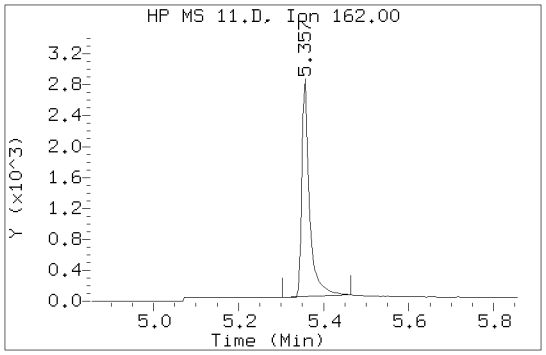
BEFORE

MASS
162
AREA
4375
HEIGHT
2856
31-May-2024
16:54
ALSHS
Server



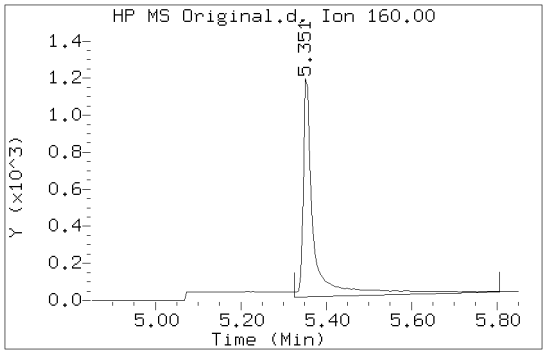
AFTER

MASS
162
AREA
3532
HEIGHT
2816
31-May-2024
17:05



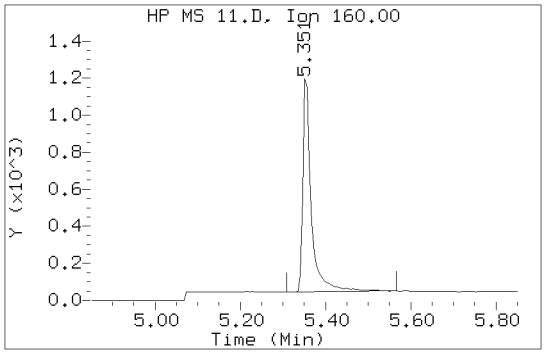
BEFORE

MASS
160
AREA
2113
HEIGHT
1179
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
160
AREA
1588
HEIGHT
1150
31-May-2024
17:05

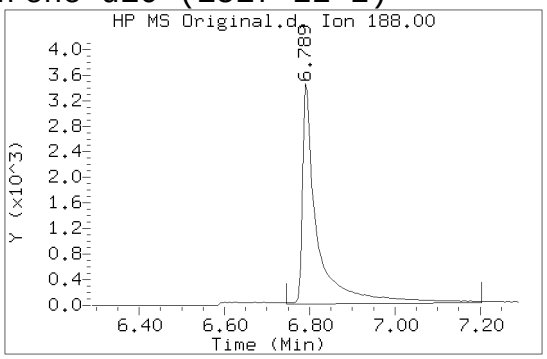


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

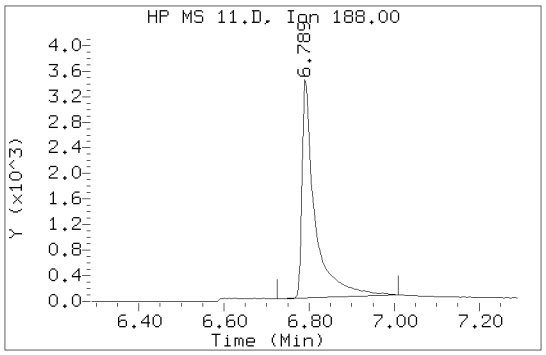
Phenanthrene-d10 (1517-22-2)

Reason Code:

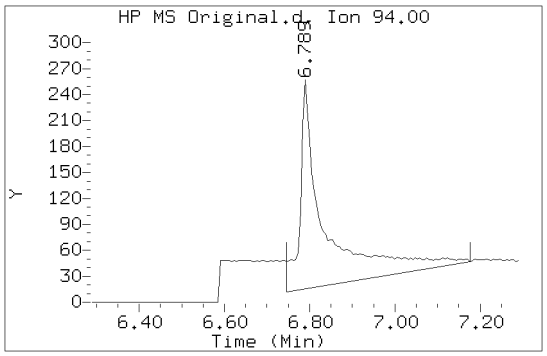
BEFORE
MASS
188
AREA
8457
HEIGHT
3446
31-May-2024
16:54
ALSHS
Server



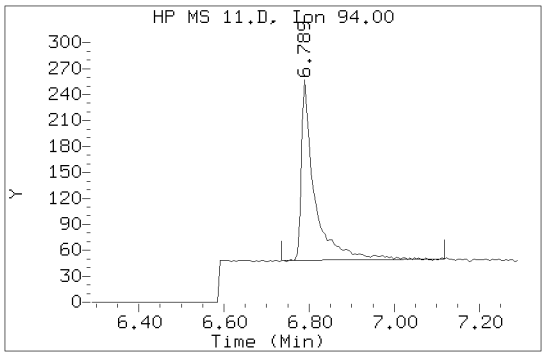
AFTER
MASS
188
AREA
7220
HEIGHT
3407
31-May-2024
17:05



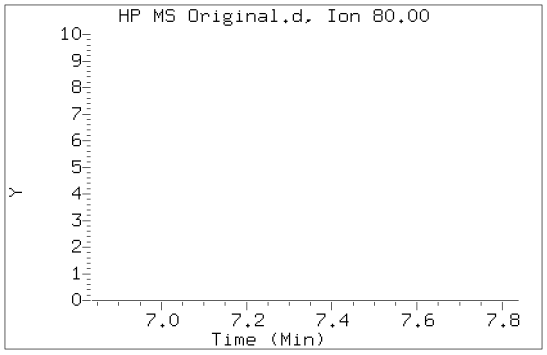
BEFORE
MASS
94
AREA
966
HEIGHT
241
31-May-2024
16:54
ALSHS
Server



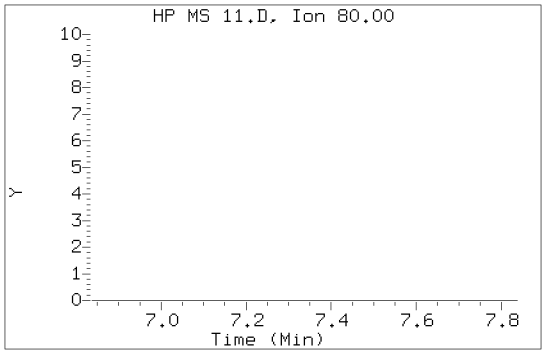
AFTER
MASS
94
AREA
454
HEIGHT
208
31-May-2024
17:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



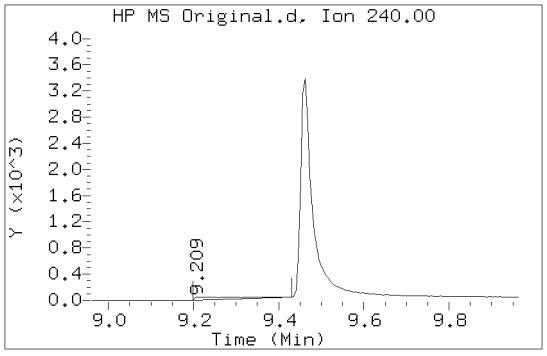
AFTER
MASS
80
AREA
0
HEIGHT
0
31-May-2024
17:05



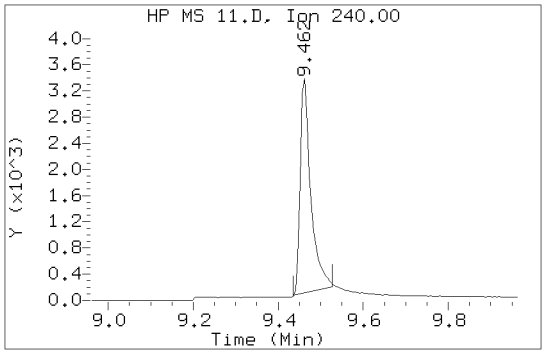
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
302
HEIGHT
43
31-May-2024
16:54
ALSHS
Server



AFTER
MASS
240
AREA
5630
HEIGHT
3273
31-May-2024
17:05



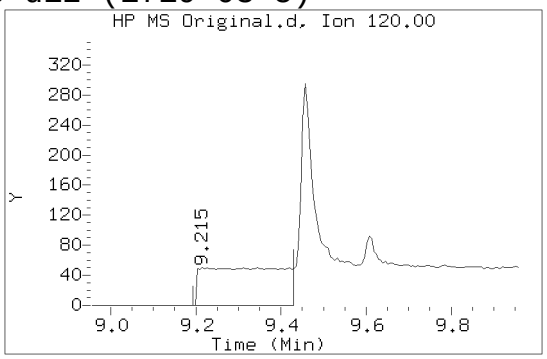
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

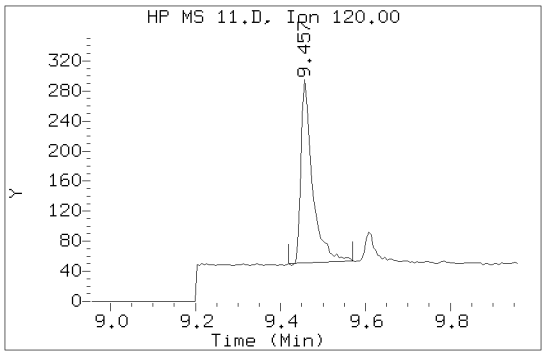
BEFORE

MASS
120
AREA
678
HEIGHT
50
31-May-2024
16:54
ALSHS
Server



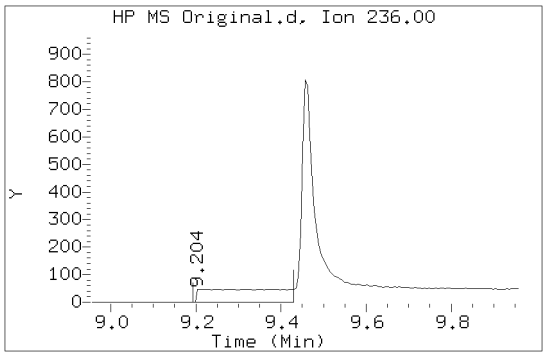
AFTER

MASS
120
AREA
455
HEIGHT
243
31-May-2024
17:05



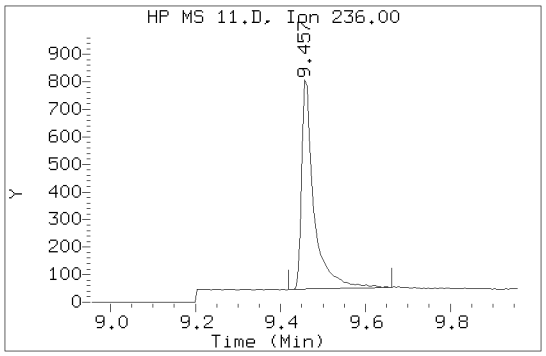
BEFORE

MASS
236
AREA
637
HEIGHT
47
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
236
AREA
1527
HEIGHT
759
31-May-2024
17:05

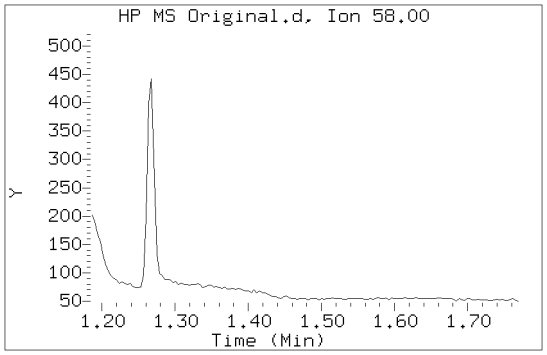


1,4-Dioxane ()

Reason Code:

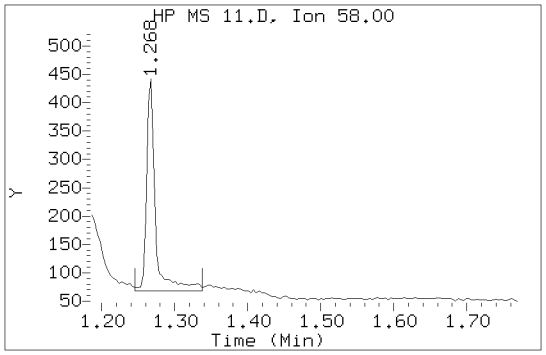
BEFORE

MASS
58
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



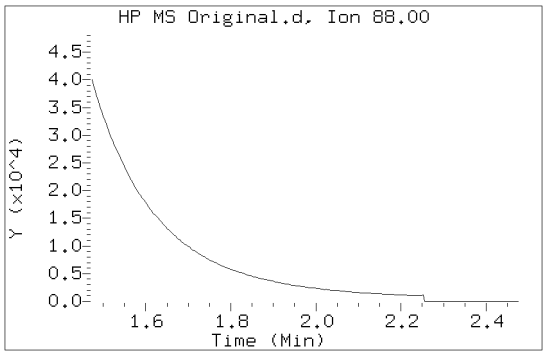
AFTER

MASS
58
AREA
311
HEIGHT
374
31-May-2024
17:05



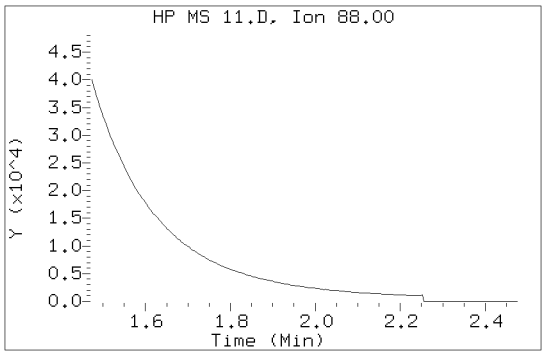
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
17:05

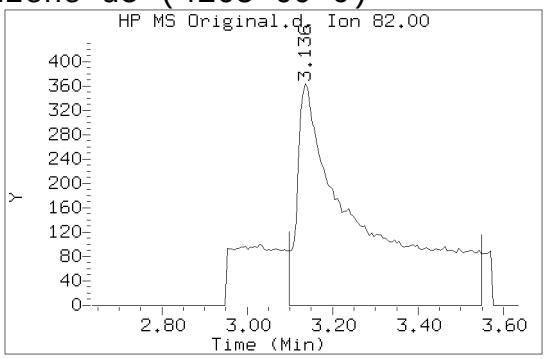


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

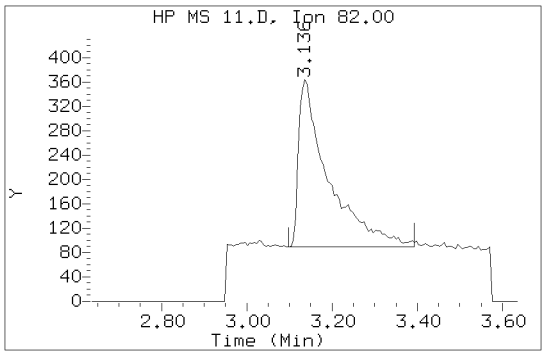
Nitrobenzene-d5 (4165-60-0)

Reason Code:

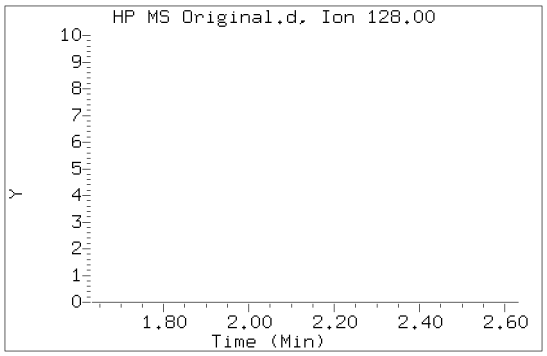
BEFORE
MASS
82
AREA
3798
HEIGHT
364
31-May-2024
16:54
ALSHS
Server



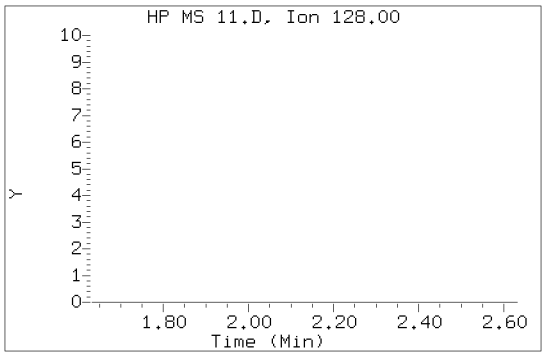
AFTER
MASS
82
AREA
1347
HEIGHT
275
31-May-2024
17:05



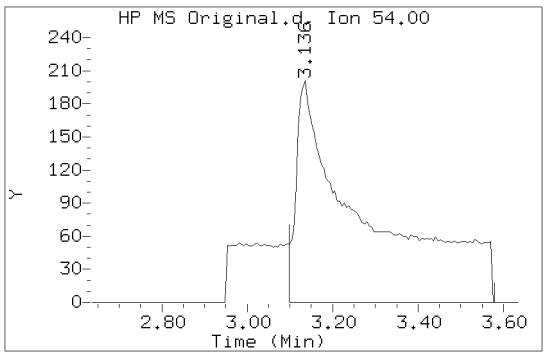
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



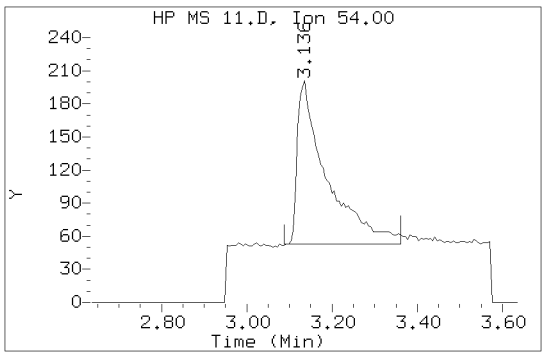
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
17:05



BEFORE
MASS
54
AREA
2258
HEIGHT
201
31-May-2024
16:54
ALSHS
Server



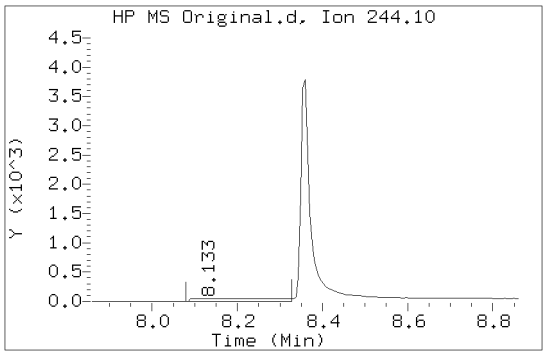
AFTER
MASS
54
AREA
707
HEIGHT
148
31-May-2024
17:05



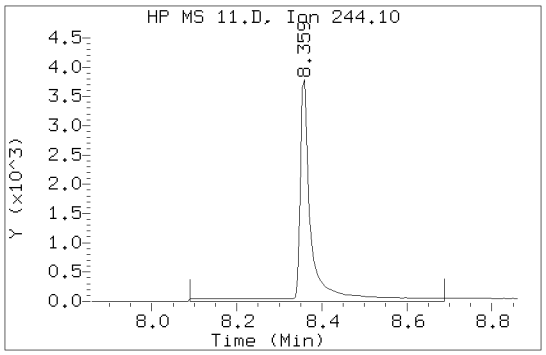
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
654
HEIGHT
46
31-May-2024
16:54
ALSHS
Server



AFTER
MASS
244.1
AREA
7669
HEIGHT
3785
31-May-2024
17:05



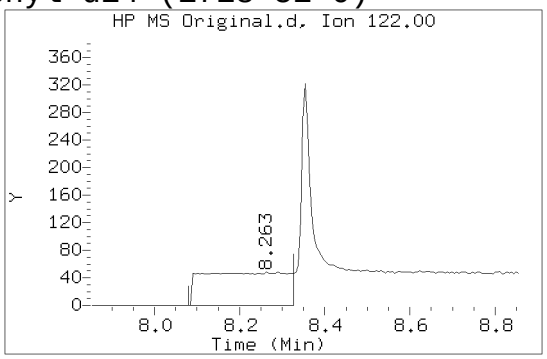
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

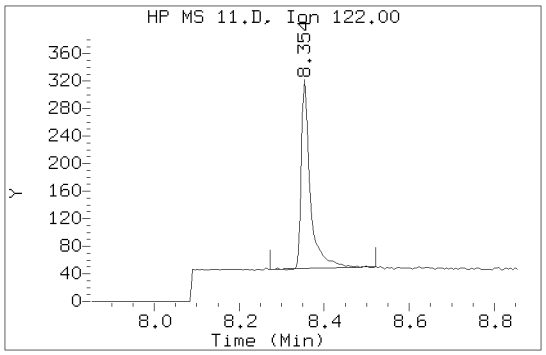
BEFORE

MASS
122
AREA
679
HEIGHT
48
31-May-2024
16:54
ALSHS
Server



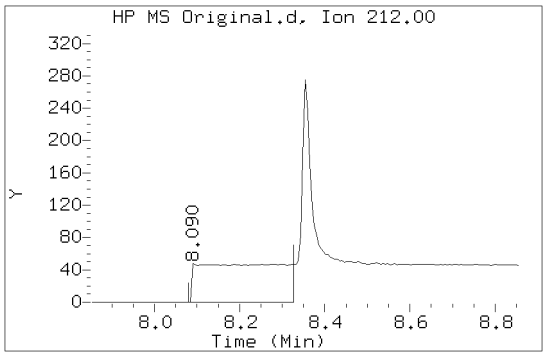
AFTER

MASS
122
AREA
397
HEIGHT
274
31-May-2024
17:05



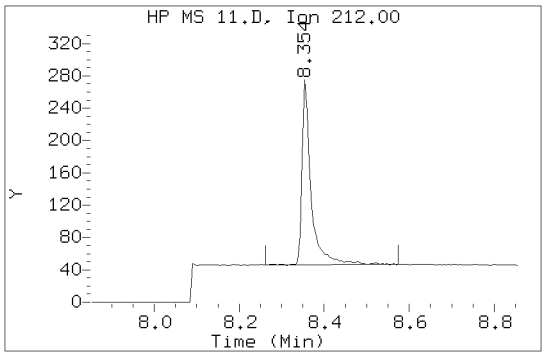
BEFORE

MASS
212
AREA
669
HEIGHT
48
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
212
AREA
335
HEIGHT
228
31-May-2024
17:05

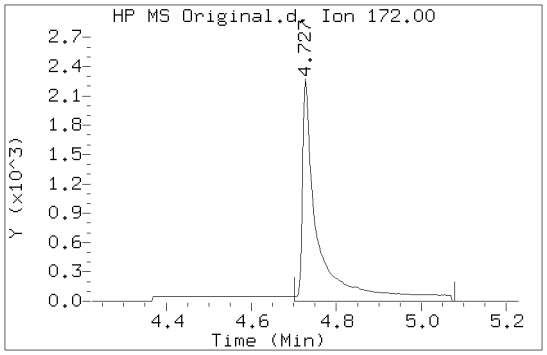


2-Fluorobiphenyl (321-60-8)

Reason Code:

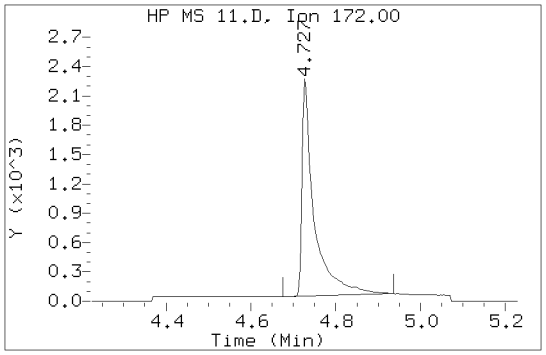
BEFORE

MASS
172
AREA
5890
HEIGHT
2274
31-May-2024
16:54
ALSHS
Server



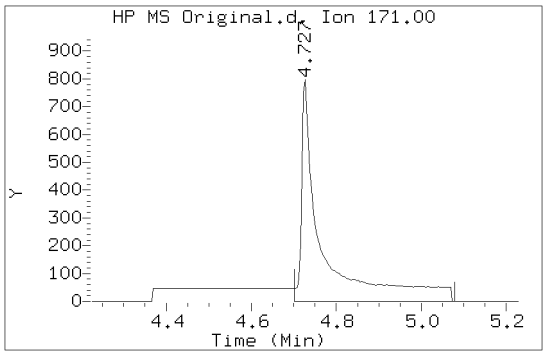
AFTER

MASS
172
AREA
4403
HEIGHT
2221
31-May-2024
17:05



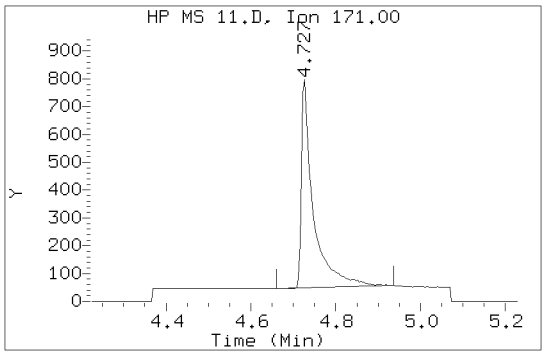
BEFORE

MASS
171
AREA
2640
HEIGHT
797
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
171
AREA
1459
HEIGHT
748
31-May-2024
17:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Lab Smp Id: HS24040667-05
Inj Date : 31-MAY-2024 18:23
Operator : LG Inst ID: SV6.i
Smp Info : HS24040667-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

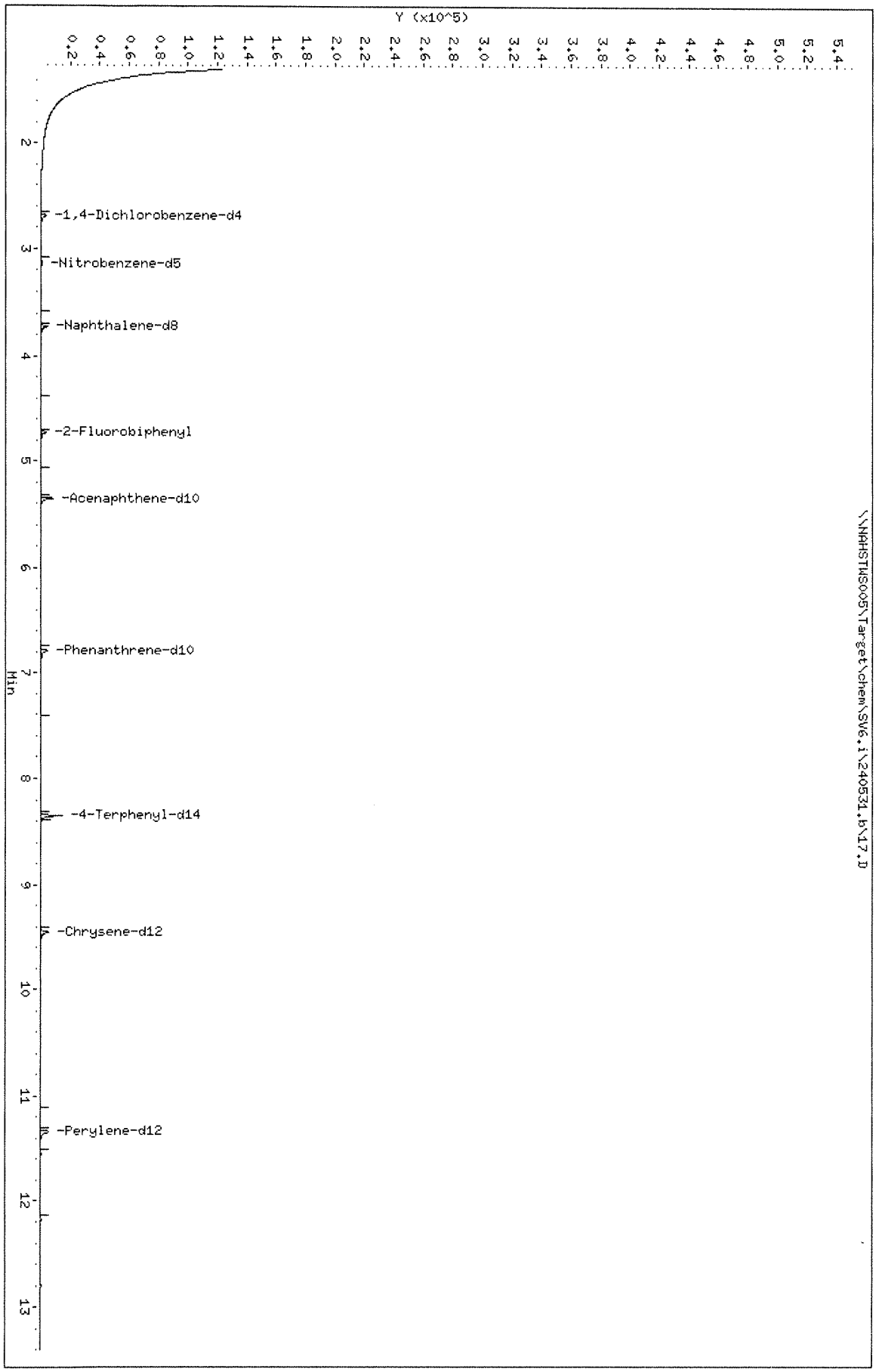
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

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	2.690	2.684	(1.000)	3296	0.10000		(aQ)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	7556	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.124	3.135	(0.839)	1391	0.06132	0.06132	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4786	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5058	0.06913	0.06913	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	9170	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	8299	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	15478	0.09155	0.09155	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	8663	0.10000		
1 1,4-Dioxane	58	1.297	1.267	(0.482)	46	0.00652	0.006516	(aMH)

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.
H - Operator selected an alternate compound hit.


Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Date : 31-MAY-2024 18:23
Client ID:
Sample Info: HS240406&7-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 2
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D

Date : 31-MAY-2024 18:23

Client ID:

Instrument: SV6.i

Sample Info: HS24040667-05

Purge Volume: 1000.0

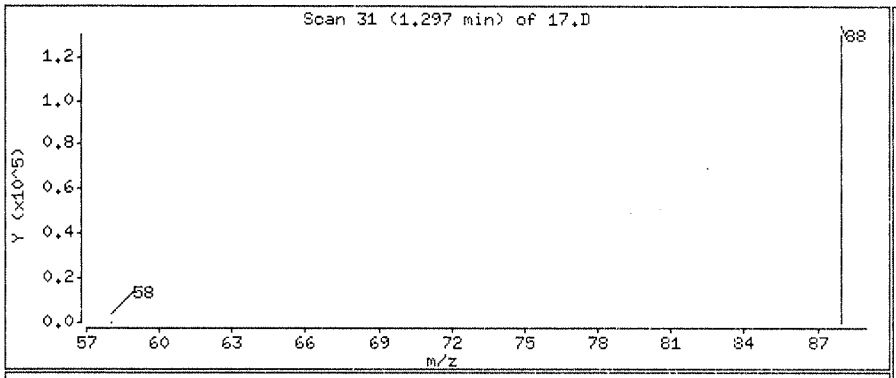
Operator: LG

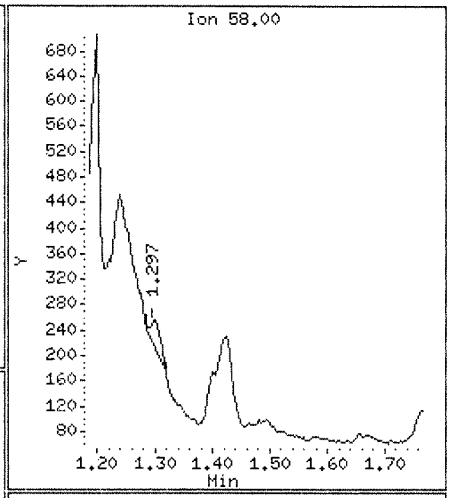
Column phase: RTX-5SIL MS

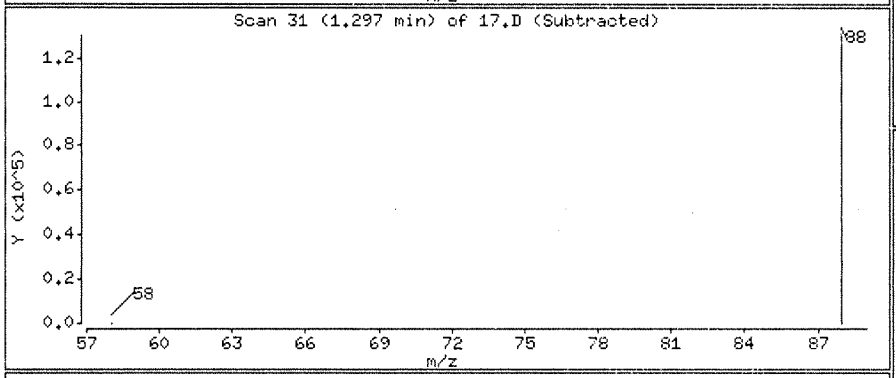
Column diameter: 0.28

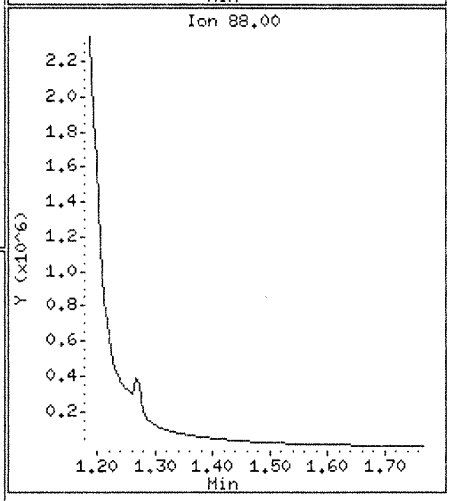
1 1,4-Dioxane

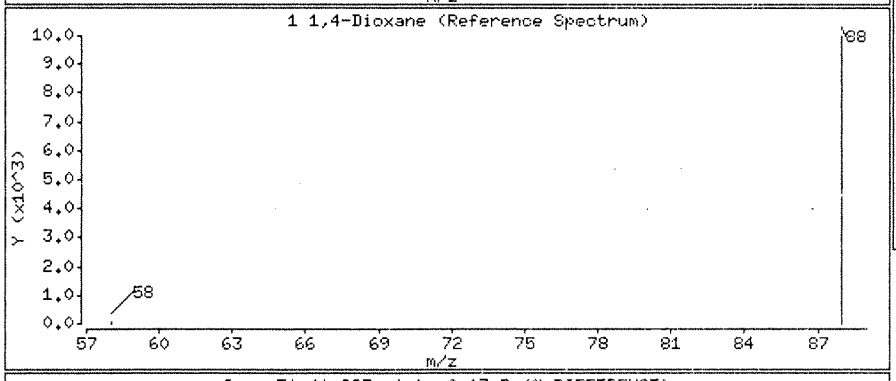
Concentration: 0.006516 ug/L

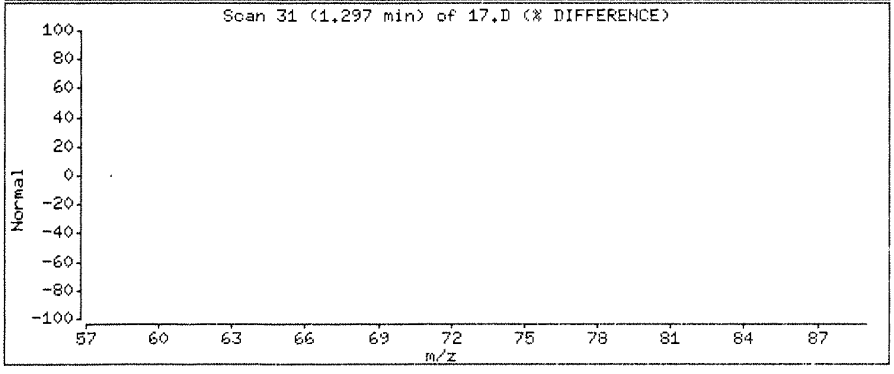










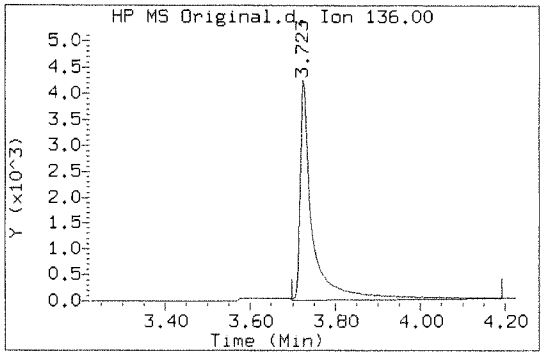


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

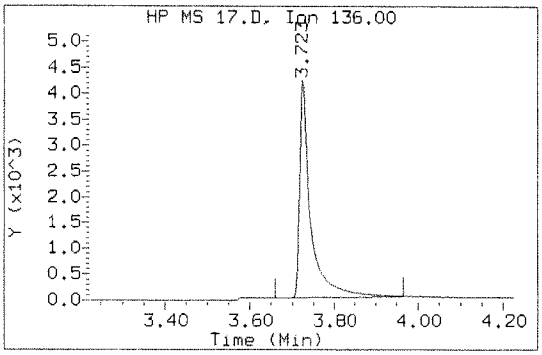
Naphthalene-d8 (1146-65-2)

Reason Code:

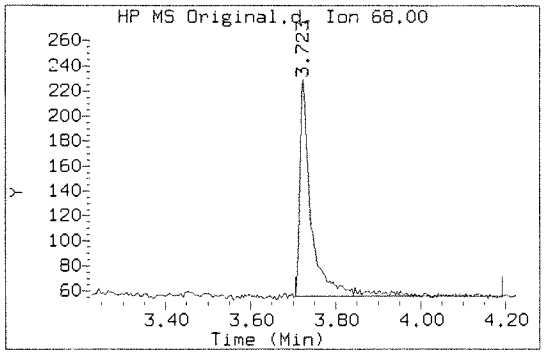
BEFORE
MASS
136
AREA
8664
HEIGHT
4246
31-May-2024
18:39
ALSHS
Server



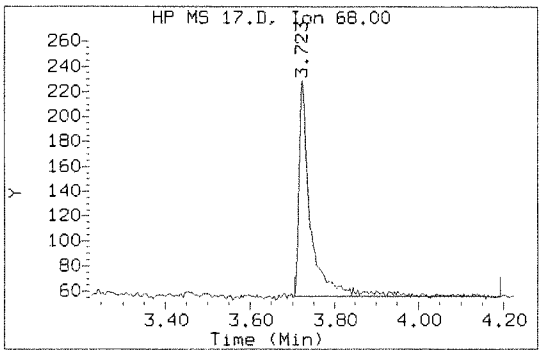
AFTER
MASS
136
AREA
7556
HEIGHT
4201
03-Jun-2024
11:13



BEFORE
MASS
68
AREA
329
HEIGHT
173
31-May-2024
18:39
ALSHS
Server



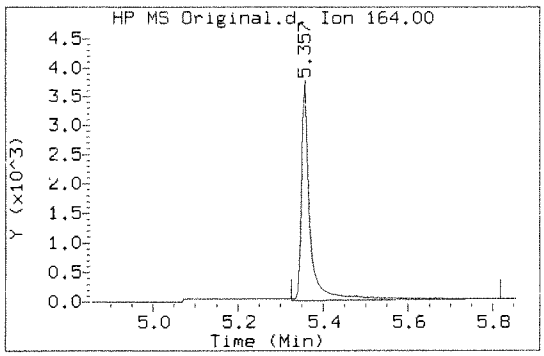
AFTER
MASS
68
AREA
329
HEIGHT
173
03-Jun-2024
11:13



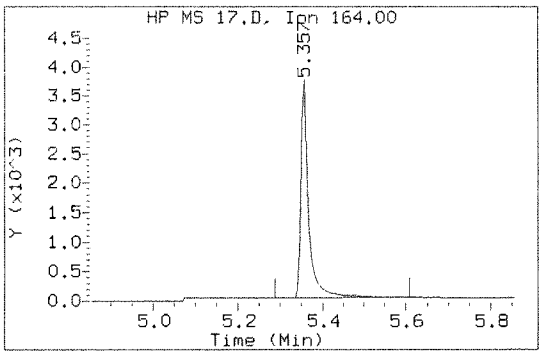
Acenaphthene-d10 (15067-26-2)

Reason Code:

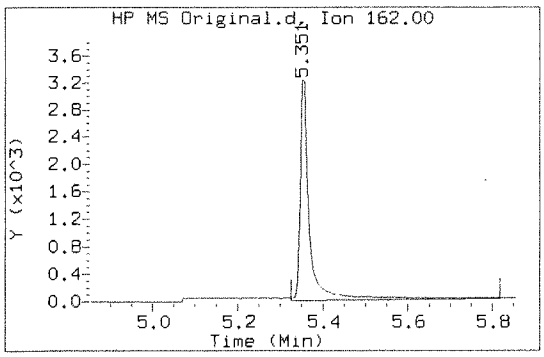
BEFORE
MASS
164
AREA
5436
HEIGHT
3763
31-May-2024
18:39
ALSHS
Server



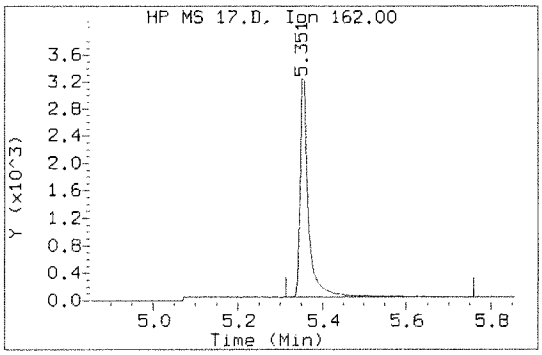
AFTER
MASS
164
AREA
4786
HEIGHT
3729
03-Jun-2024
11:13



BEFORE
MASS
162
AREA
5043
HEIGHT
3225
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
162
AREA
4437
HEIGHT
3192
03-Jun-2024
11:13

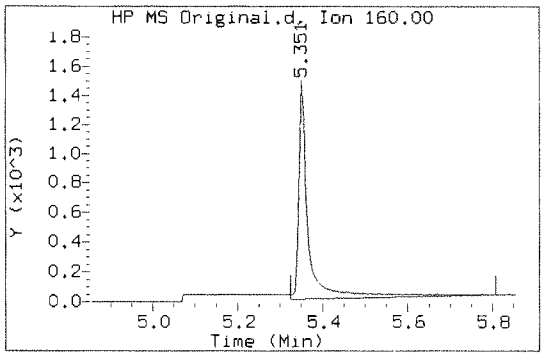


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

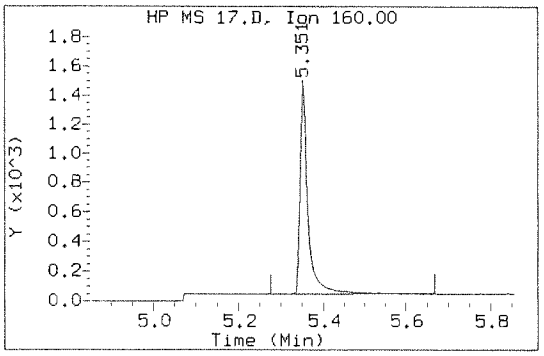
Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
160
AREA
2391
HEIGHT
1489
31-May-2024
18:39
ALSHS
Server



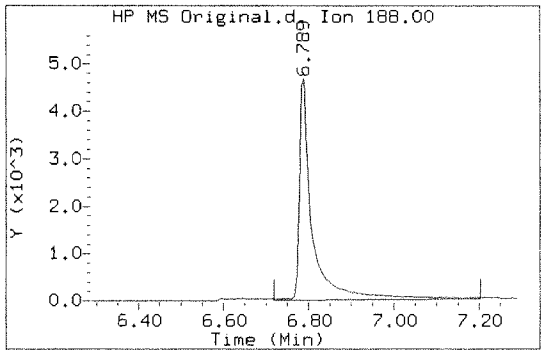
AFTER
MASS
160
AREA
1861
HEIGHT
1459
03-Jun-2024
11:13



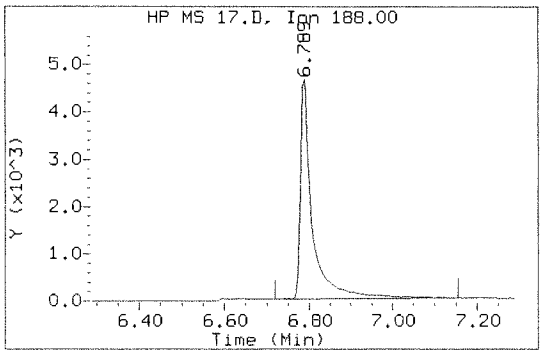
Phenanthrene-d10 (1517-22-2)

Reason Code:

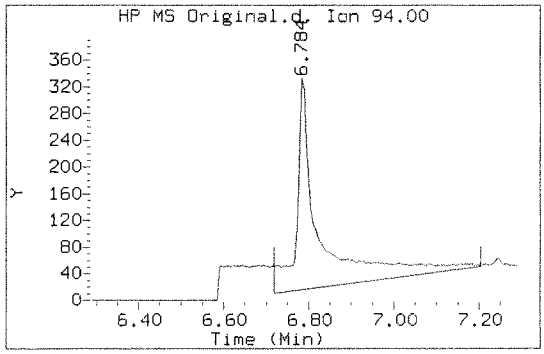
BEFORE
MASS
188
AREA
10001
HEIGHT
4672
31-May-2024
18:39
ALSHS
Server



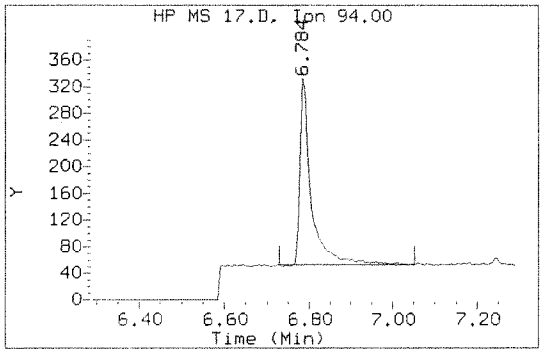
AFTER
MASS
188
AREA
9170
HEIGHT
4641
03-Jun-2024
11:13



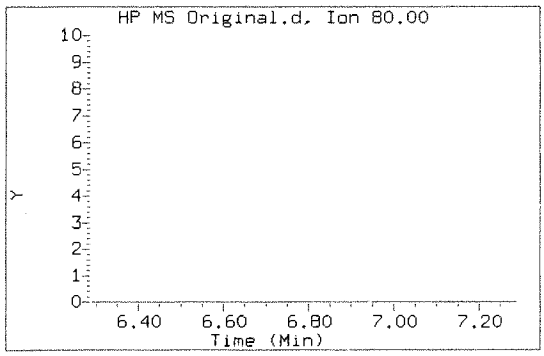
BEFORE
MASS
94
AREA
1180
HEIGHT
316
31-May-2024
18:39
ALSHS
Server



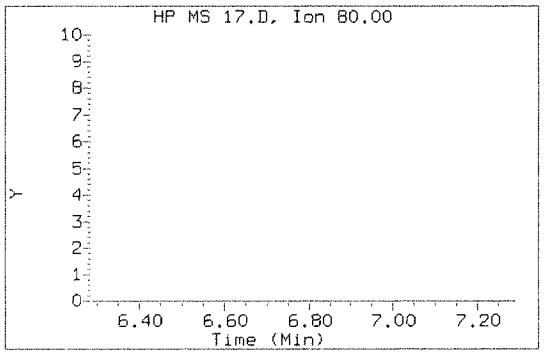
AFTER
MASS
94
AREA
528
HEIGHT
280
03-Jun-2024
11:13



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
11:13

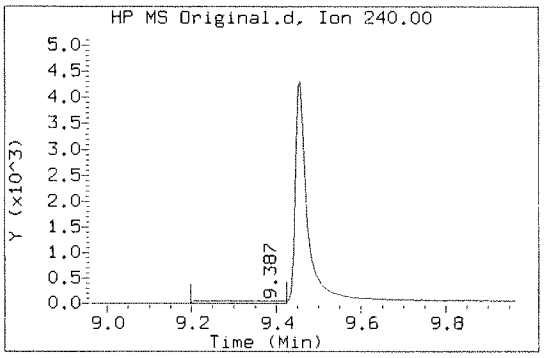


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

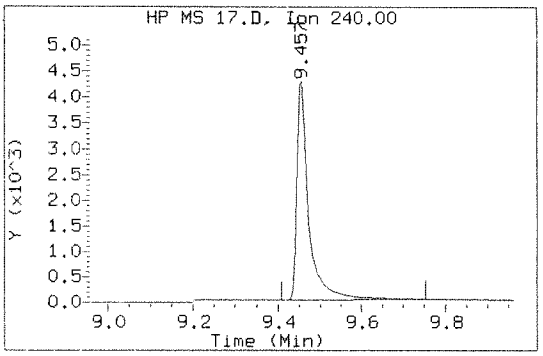
Chrysene-d12 (1719-03-5)

Reason Code:

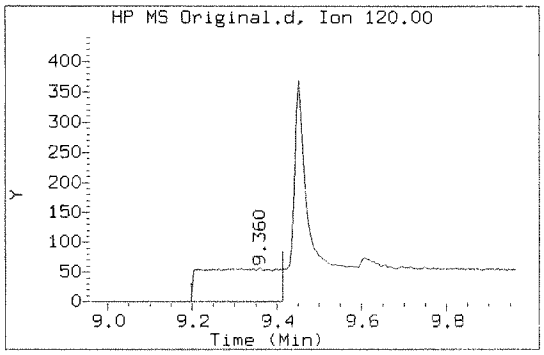
BEFORE
MASS
240
AREA
692
HEIGHT
54
31-May-2024
18:39
ALSHS
Server



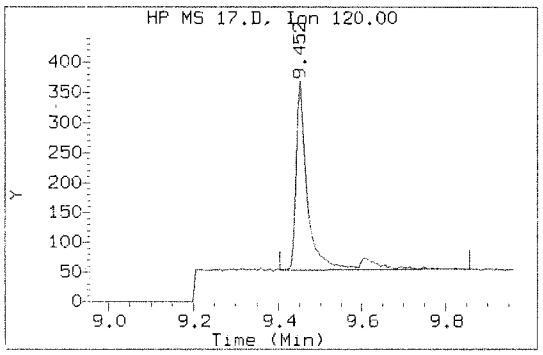
AFTER
MASS
240
AREA
8299
HEIGHT
4261
03-Jun-2024
11:13



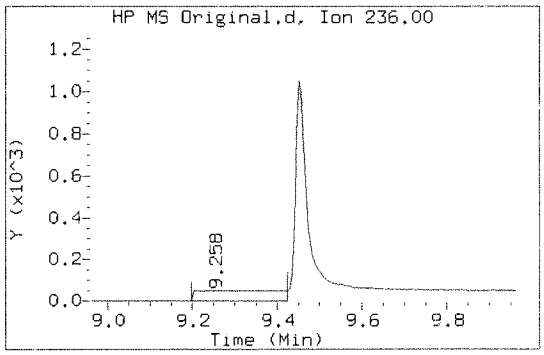
BEFORE
MASS
120
AREA
696
HEIGHT
58
31-May-2024
18:39
ALSHS
Server



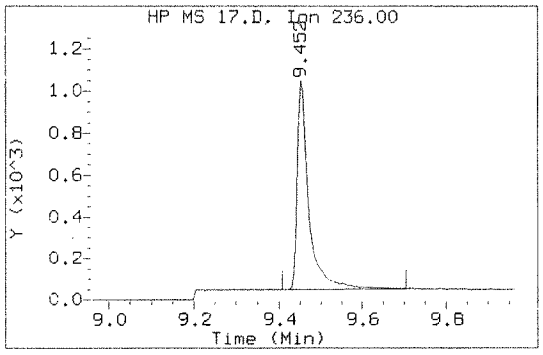
AFTER
MASS
120
AREA
629
HEIGHT
315
03-Jun-2024
11:13



BEFORE
MASS
236
AREA
657
HEIGHT
50
31-May-2024
18:39
ALSHS
Server



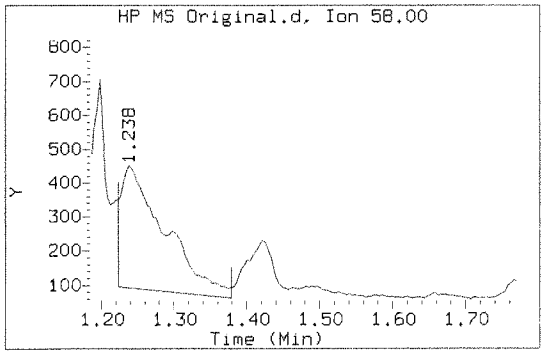
AFTER
MASS
236
AREA
1922
HEIGHT
1003
03-Jun-2024
11:13



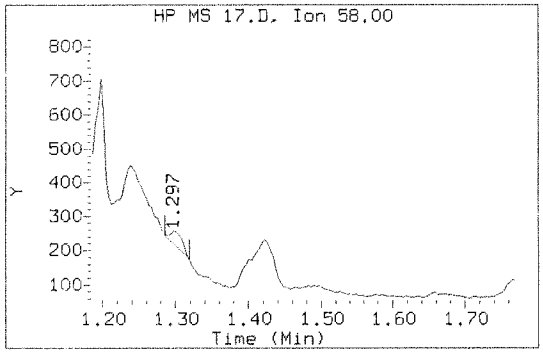
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
1524
HEIGHT
360
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
58
AREA
46
HEIGHT
35
03-Jun-2024
11:13

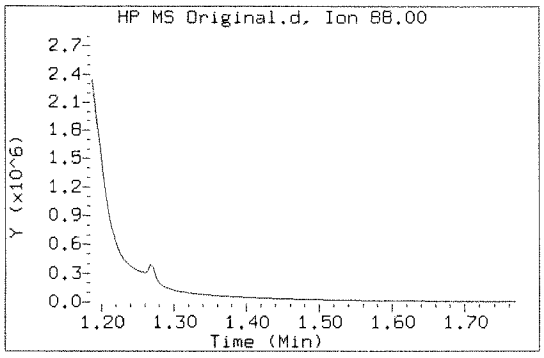


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Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

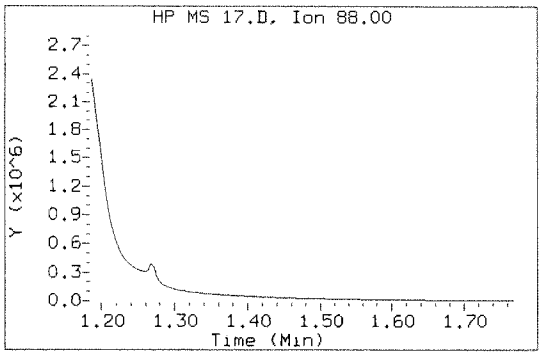
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



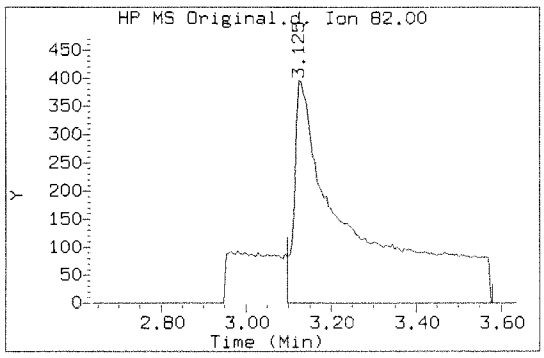
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
11:13



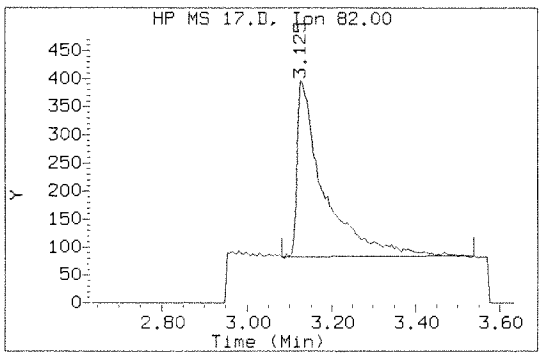
Nitrobenzene-d5 (4165-60-0)

Reason Code:

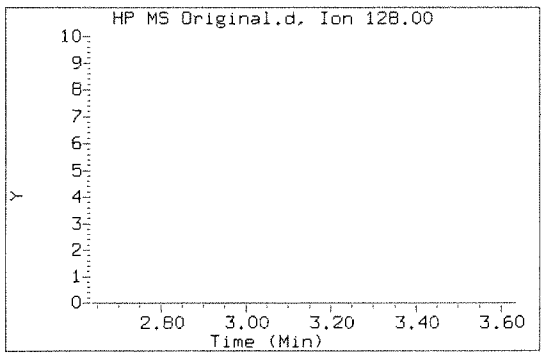
BEFORE
MASS
82
AREA
3783
HEIGHT
396
31-May-2024
18:39
ALSHS
Server



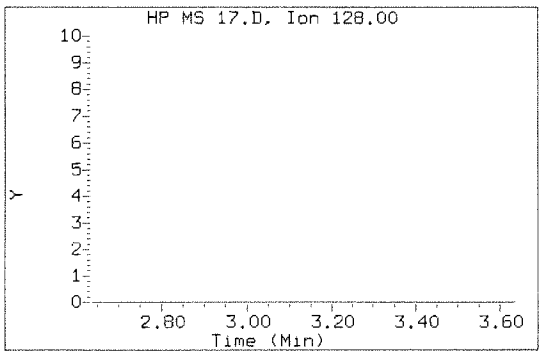
AFTER
MASS
82
AREA
1391
HEIGHT
312
03-Jun-2024
11:13



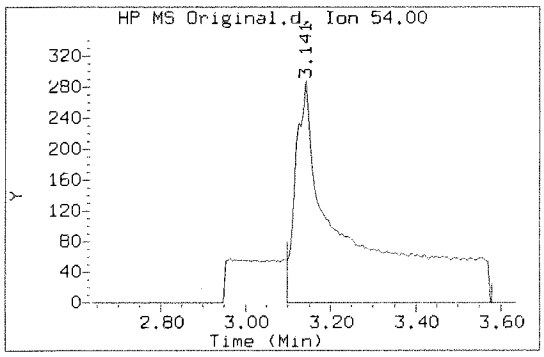
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



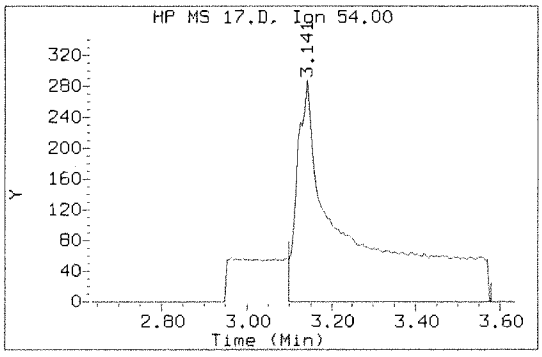
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:13



BEFORE
MASS
54
AREA
2477
HEIGHT
288
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
54
AREA
2477
HEIGHT
288
03-Jun-2024
11:13

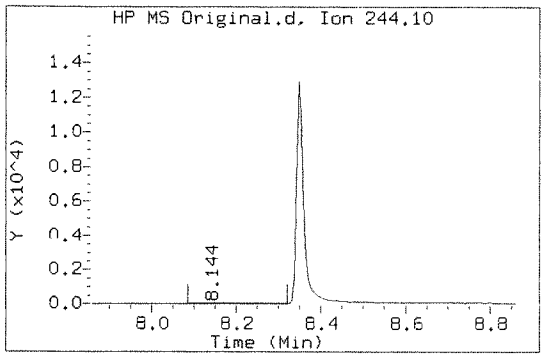


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

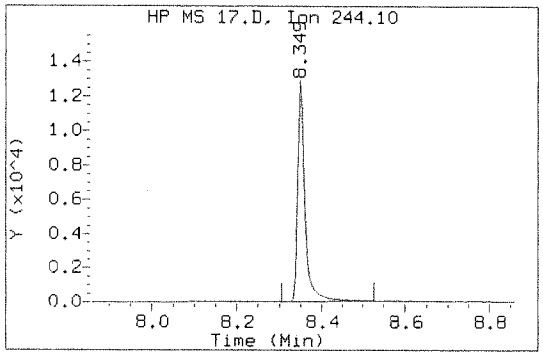
4-Terphenyl-d14 (1718-51-0)

Reason Code:

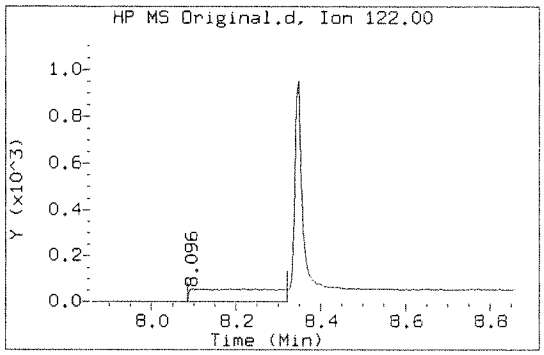
BEFORE
MASS
244.1
AREA
661
HEIGHT
48
31-May-2024
18:39
ALSHS
Server



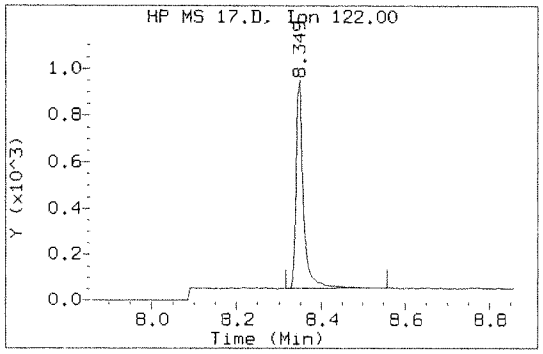
AFTER
MASS
244.1
AREA
15478
HEIGHT
12870
03-Jun-2024
11:13



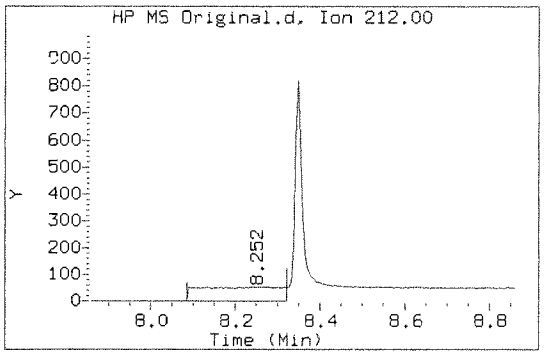
BEFORE
MASS
122
AREA
740
HEIGHT
54
31-May-2024
18:39
ALSHS
Server



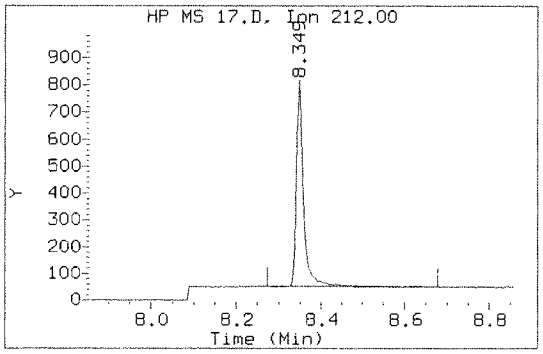
AFTER
MASS
122
AREA
1099
HEIGHT
898
03-Jun-2024
11:13



BEFORE
MASS
212
AREA
709
HEIGHT
52
31-May-2024
18:39
ALSHS
Server



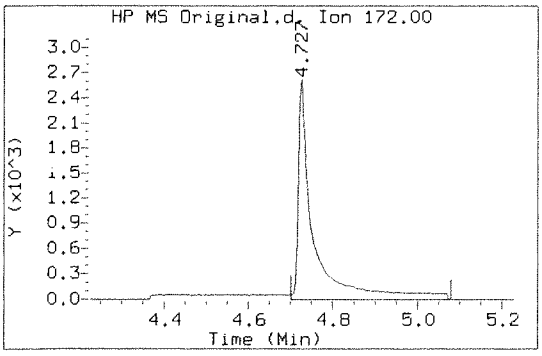
AFTER
MASS
212
AREA
910
HEIGHT
768
03-Jun-2024
11:13



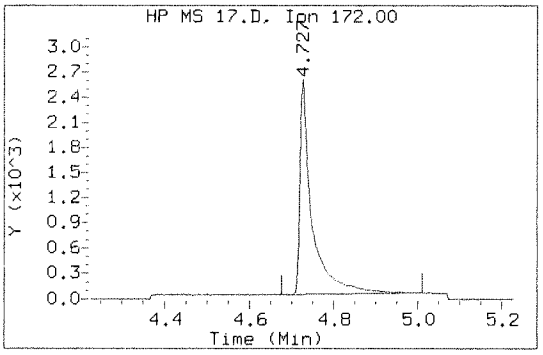
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
6533
HEIGHT
2619
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
172
AREA
5058
HEIGHT
2563
03-Jun-2024
11:13



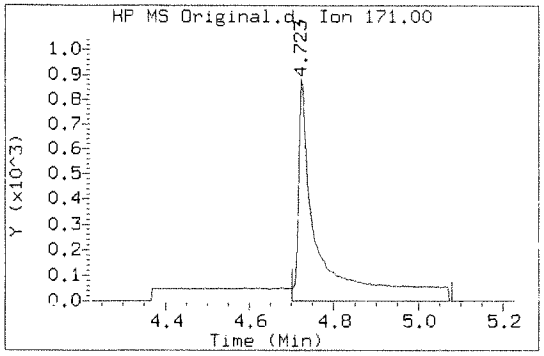
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

2-Fluorobiphenyl (321-60-8)

Reason Code:

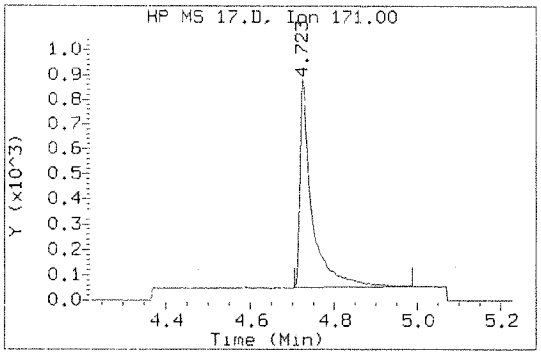
BEFORE

MASS
171
AREA
2879
HEIGHT
883
31-May-2024
18:39
ALSHS
Server



AFTER

MASS
171
AREA
1654
HEIGHT
831
03-Jun-2024
11:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D
Lab Smp Id: HS24051428-01
Inj Date : 31-MAY-2024 18:40
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
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	2.690	2.684	(1.000)	2181	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7153	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.130	3.135	(0.840)	1150	0.05355	0.05355	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4394	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	3841	0.05718	0.05718	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8482	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	7699	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	9711	0.06192	0.06192	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	7914	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\240531.b\18.D

Date : 31-MAY-2024 18:40

Client ID:

Sample Info: HS24051428-01

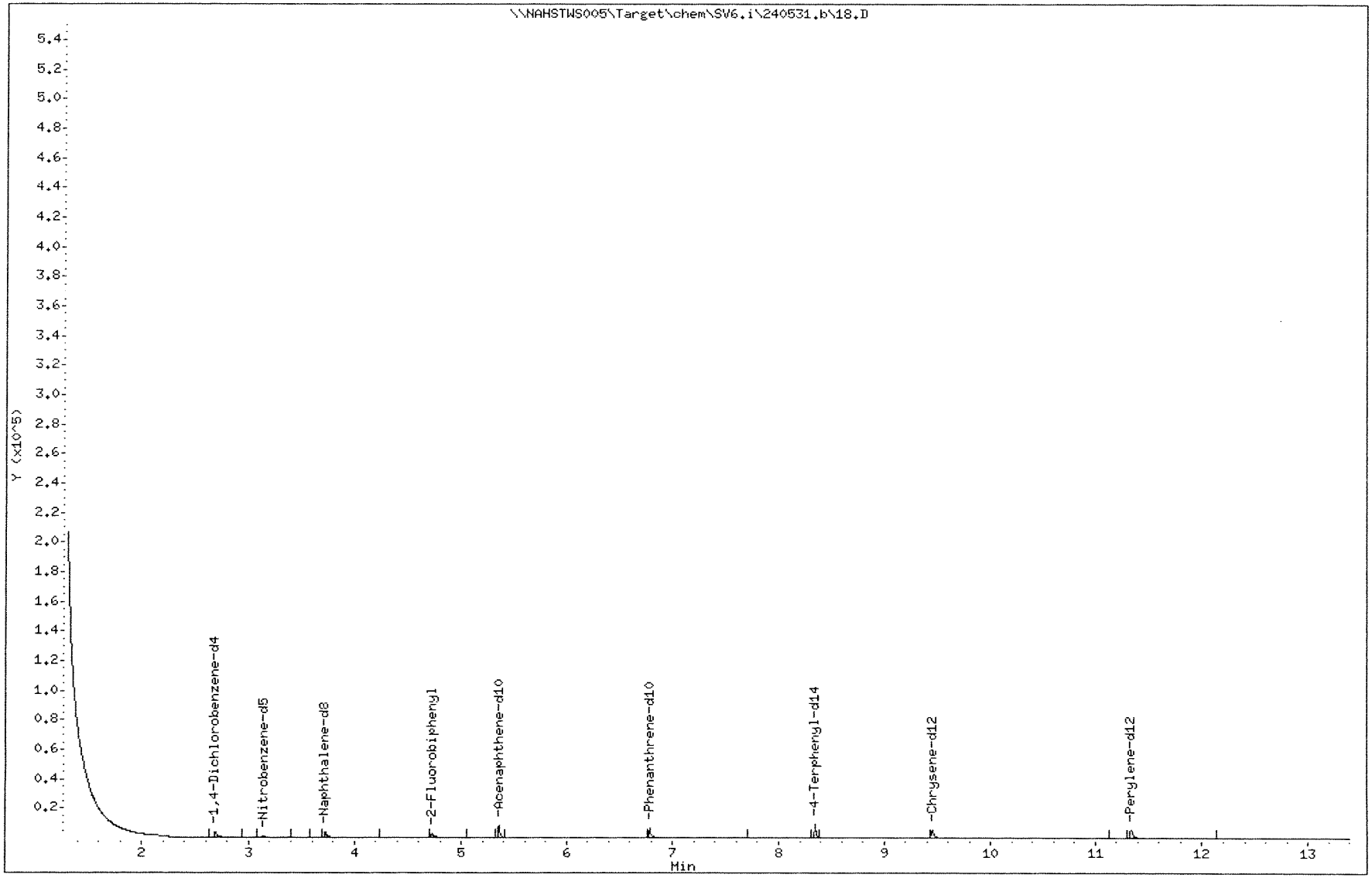
Purge Volume: 1000.0

Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG

Column diameter: 0.28

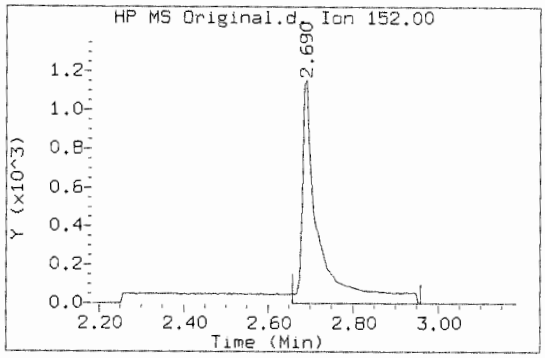


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D
Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

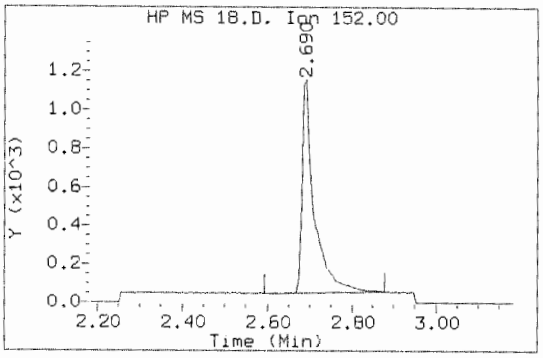
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

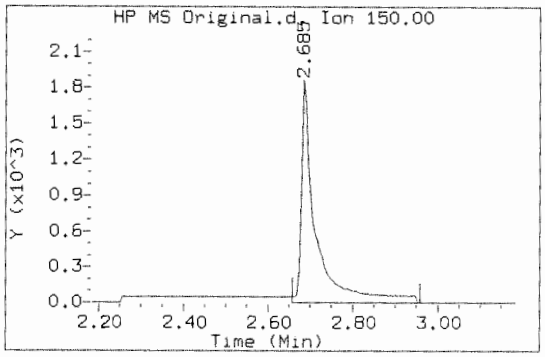
BEFORE
MASS 152
AREA 3149
HEIGHT 1157
31-May-2024 18:55
ALSHS Server



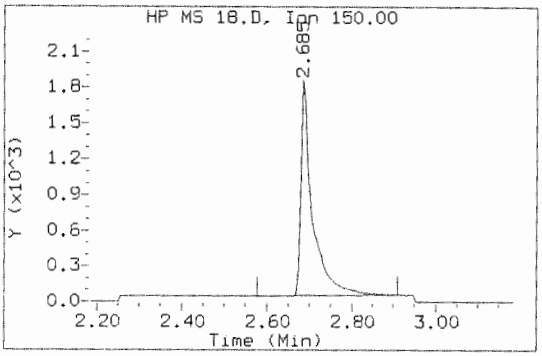
AFTER
MASS 152
AREA 2181
HEIGHT 1105
03-Jun-2024 11:14



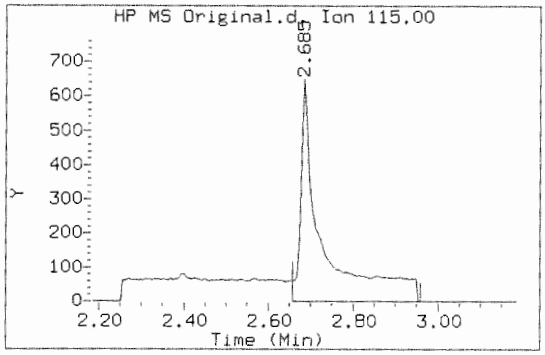
BEFORE
MASS 150
AREA 4445
HEIGHT 1865
31-May-2024 18:55
ALSHS Server



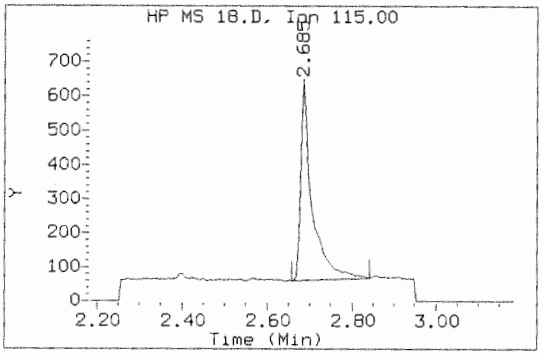
AFTER
MASS 150
AREA 3434
HEIGHT 1812
03-Jun-2024 11:14



BEFORE
MASS 115
AREA 2272
HEIGHT 649
31-May-2024 18:55
ALSHS Server



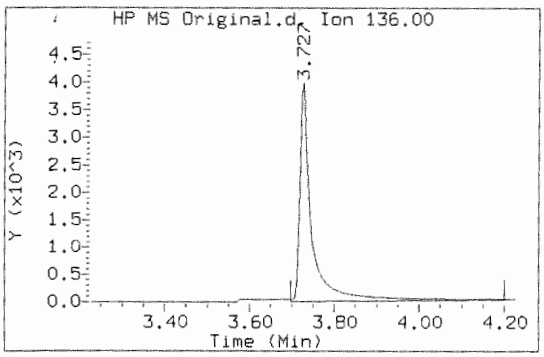
AFTER
MASS 115
AREA 1101
HEIGHT 587
03-Jun-2024 11:14



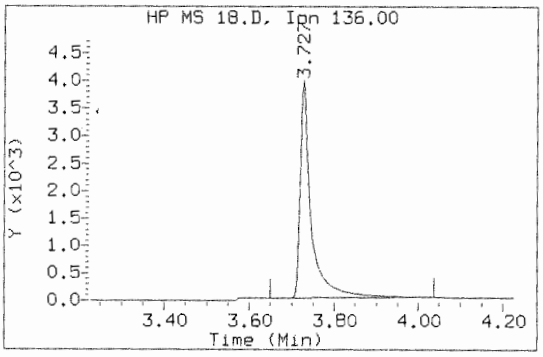
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 8002
HEIGHT 3984
31-May-2024 18:55
ALSHS Server



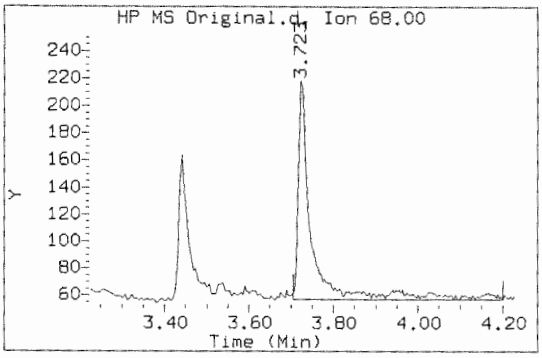
AFTER
MASS 136
AREA 7153
HEIGHT 3945
03-Jun-2024 11:14



Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D
Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

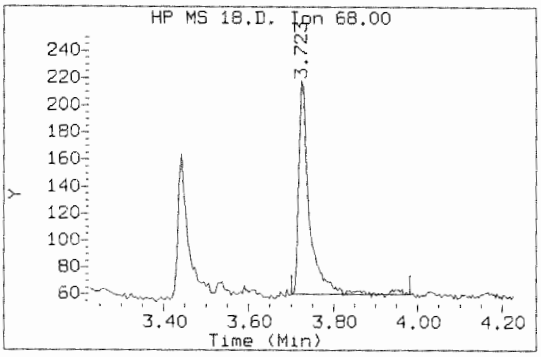
Naphthalene-d8 (1146-65-2)

BEFORE
MASS
68
AREA
363
HEIGHT
161
31-May-2024
18:55
ALSHS
Server



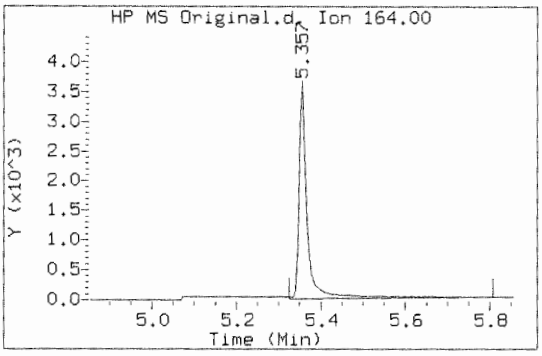
Reason Code:

AFTER
MASS
68
AREA
281
HEIGHT
158
03-Jun-2024
11:14



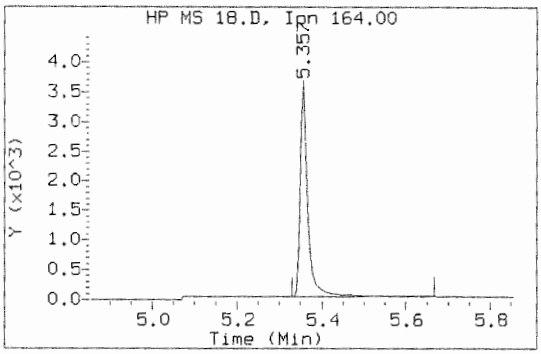
Acenaphthene-d10 (15067-26-2)

BEFORE
MASS
164
AREA
5025
HEIGHT
3666
31-May-2024
18:55
ALSHS
Server

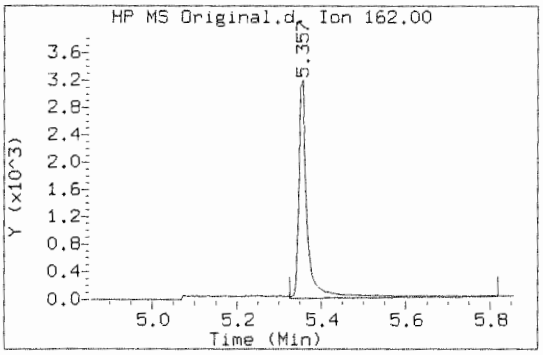


Reason Code:

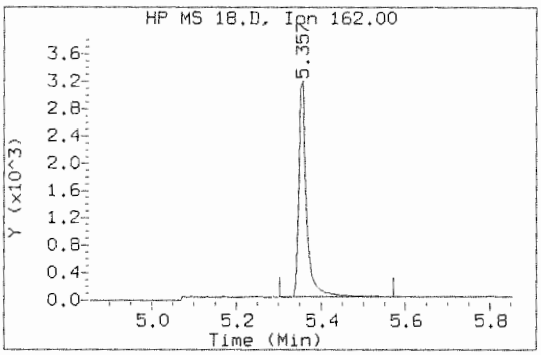
AFTER
MASS
164
AREA
4394
HEIGHT
3636
03-Jun-2024
11:14



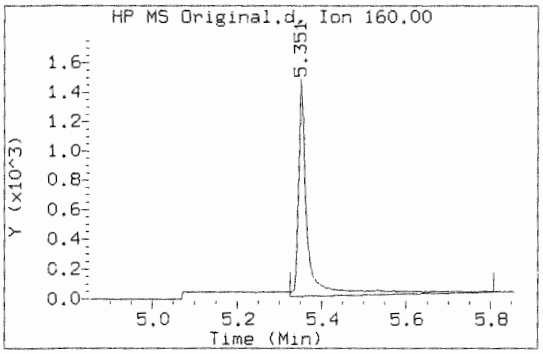
BEFORE
MASS
162
AREA
4626
HEIGHT
3186
31-May-2024
18:55
ALSHS
Server



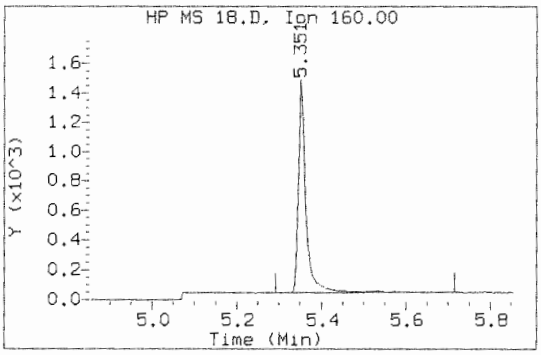
AFTER
MASS
162
AREA
3989
HEIGHT
3154
03-Jun-2024
11:14



BEFORE
MASS
160
AREA
2260
HEIGHT
1471
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
160
AREA
1765
HEIGHT
1441
03-Jun-2024
11:14

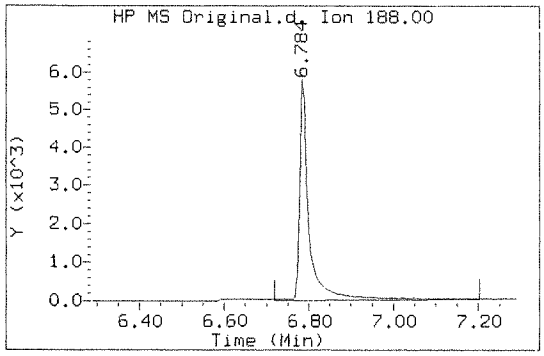


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

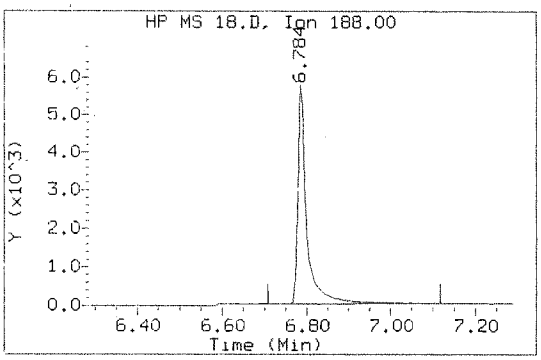
Phenanthrene-d10 (1517-22-2)

Reason Code:

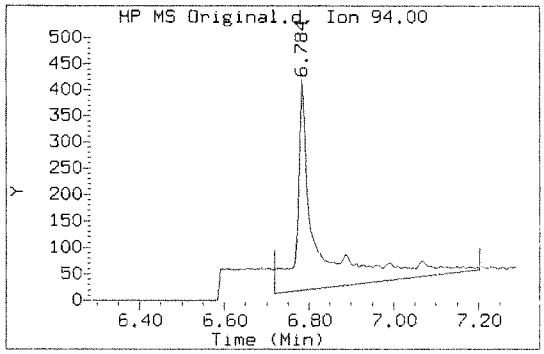
BEFORE
MASS
188
AREA
9314
HEIGHT
5790
31-May-2024
18:55
ALSHS
Server



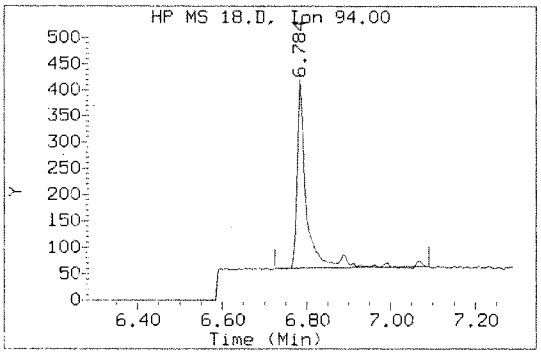
AFTER
MASS
188
AREA
8482
HEIGHT
5754
03-Jun-2024
11:14



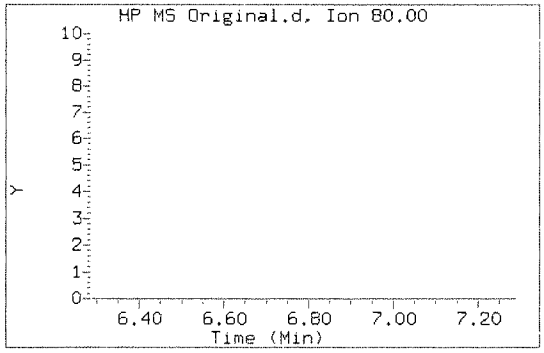
BEFORE
MASS
94
AREA
1320
HEIGHT
401
31-May-2024
18:55
ALSHS
Server



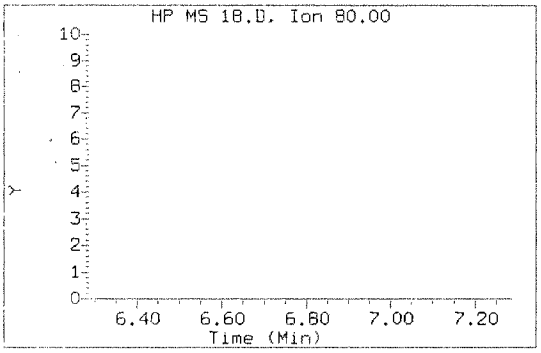
AFTER
MASS
94
AREA
532
HEIGHT
359
03-Jun-2024
11:14



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
18:55
ALSHS
Server



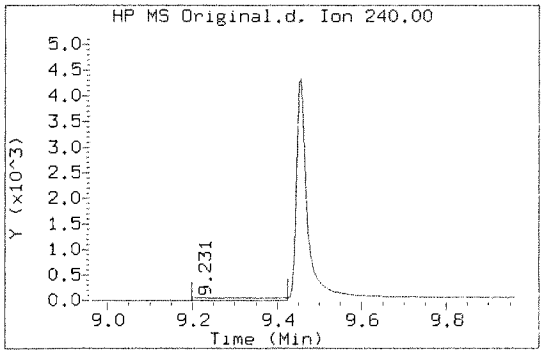
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
11:14



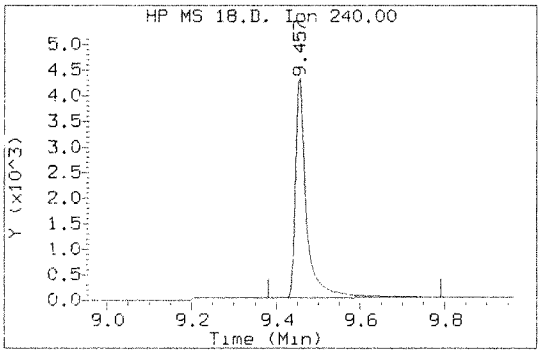
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
698
HEIGHT
53
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
240
AREA
7699
HEIGHT
4277
03-Jun-2024
11:14

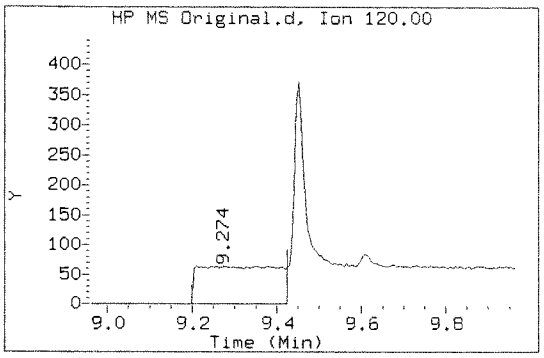


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

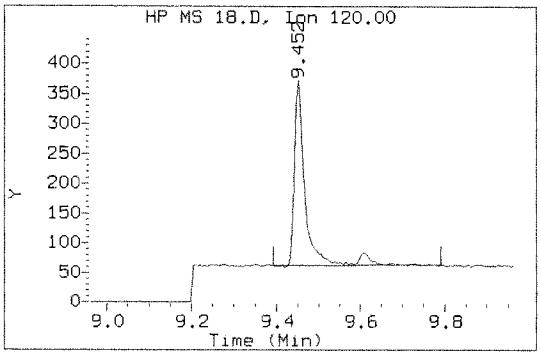
Chrysene-d12 (1719-03-5)

Reason Code:

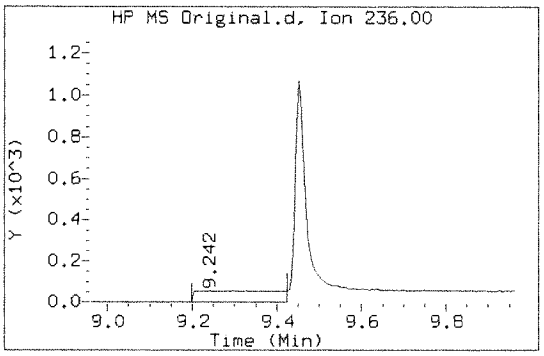
BEFORE
MASS
120
AREA
836
HEIGHT
64
31-May-2024
18:55
ALSHS
Server



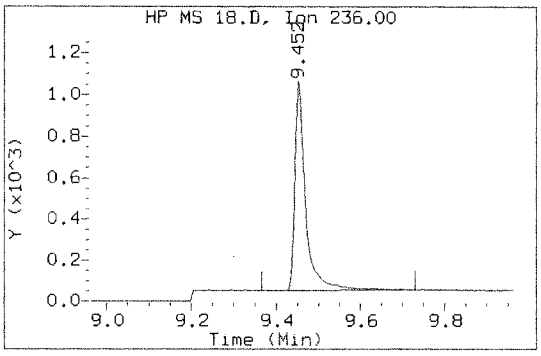
AFTER
MASS
120
AREA
568
HEIGHT
309
03-Jun-2024
11:14



BEFORE
MASS
236
AREA
709
HEIGHT
54
31-May-2024
18:55
ALSHS
Server



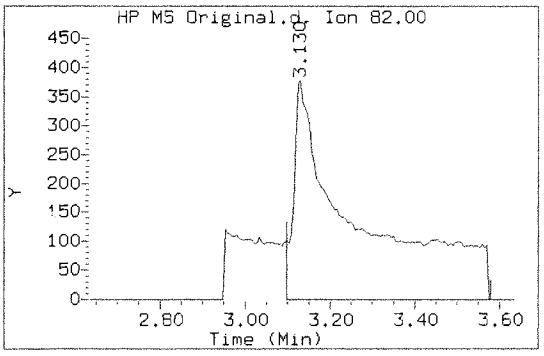
AFTER
MASS
236
AREA
1802
HEIGHT
1015
03-Jun-2024
11:14



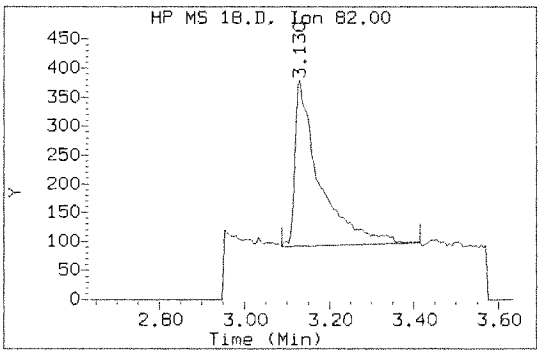
Nitrobenzene-d5 (4165-60-0)

Reason Code:

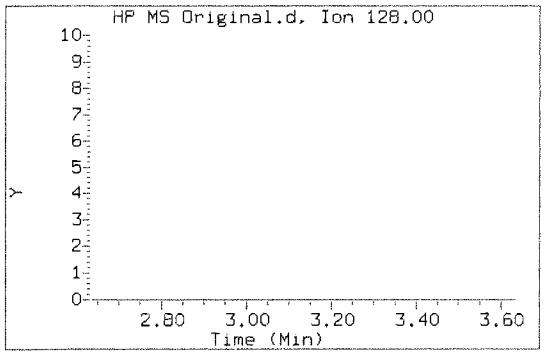
BEFORE
MASS
82
AREA
3851
HEIGHT
379
31-May-2024
18:55
ALSHS
Server



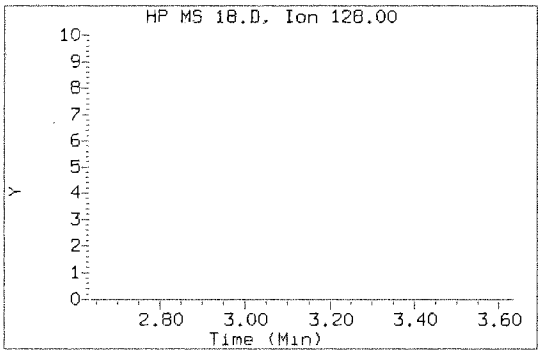
AFTER
MASS
82
AREA
1150
HEIGHT
287
03-Jun-2024
11:14



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:14

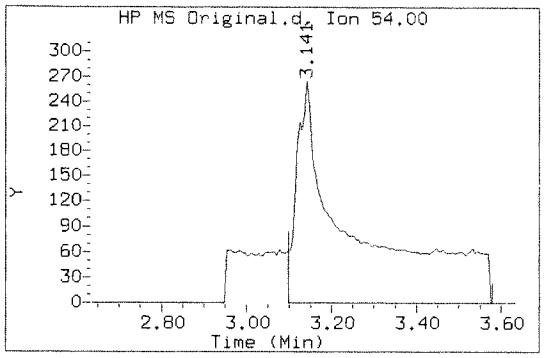


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

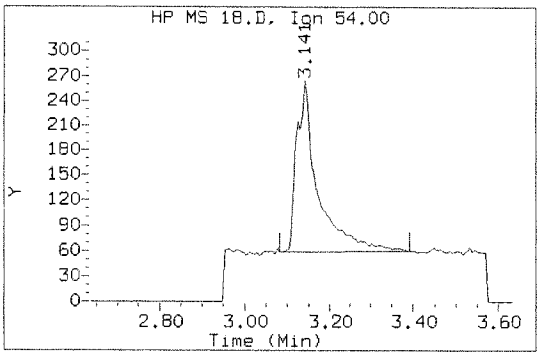
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2408
HEIGHT
265
31-May-2024
18:55
ALSHS
Server



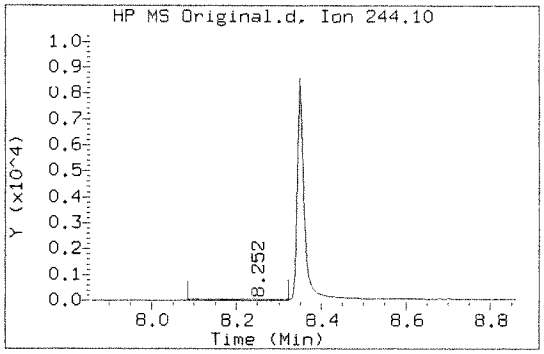
AFTER
MASS
54
AREA
709
HEIGHT
205
03-Jun-2024
11:14



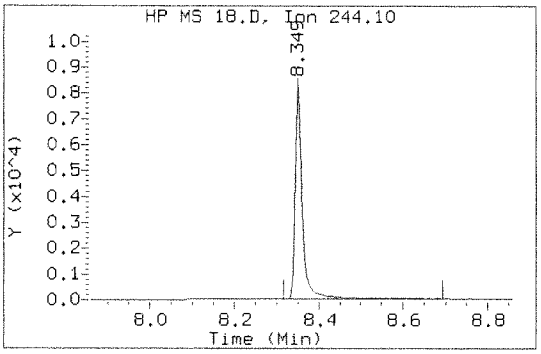
4-Terphenyl-d14 (1718-51-0)

Reason Code:

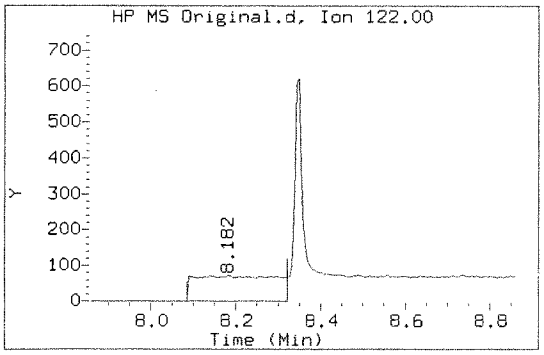
BEFORE
MASS
244.1
AREA
725
HEIGHT
53
31-May-2024
18:55
ALSHS
Server



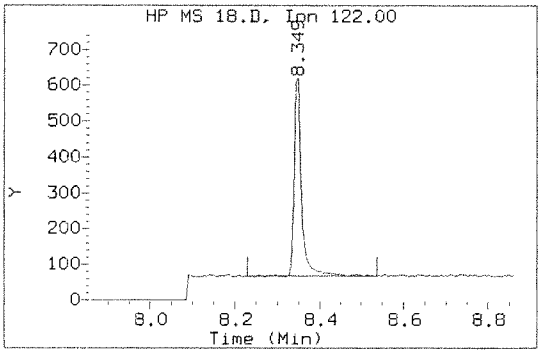
AFTER
MASS
244.1
AREA
9711
HEIGHT
8517
03-Jun-2024
11:14



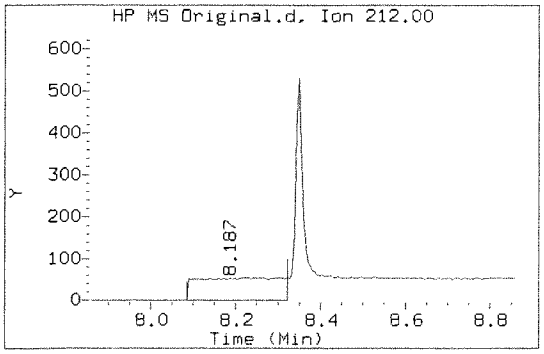
BEFORE
MASS
122
AREA
965
HEIGHT
72
31-May-2024
18:55
ALSHS
Server



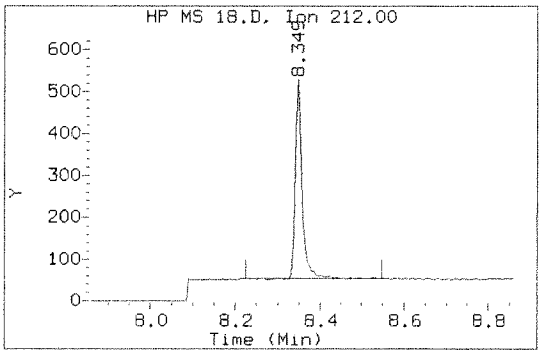
AFTER
MASS
122
AREA
656
HEIGHT
551
03-Jun-2024
11:14



BEFORE
MASS
212
AREA
738
HEIGHT
54
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
212
AREA
518
HEIGHT
476
03-Jun-2024
11:14

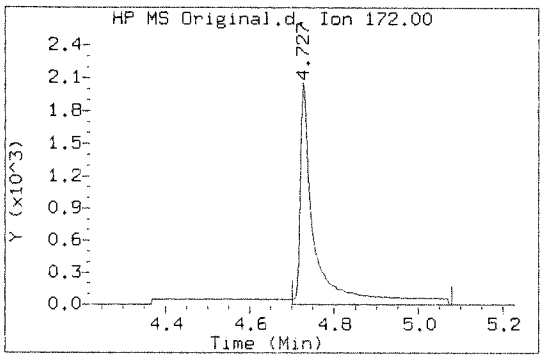


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

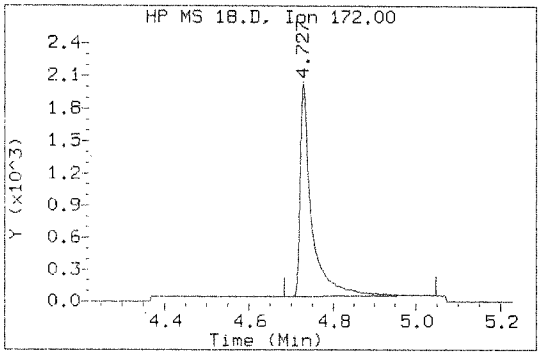
2-Fluorobiphenyl (321-60-8)

Reason Code:

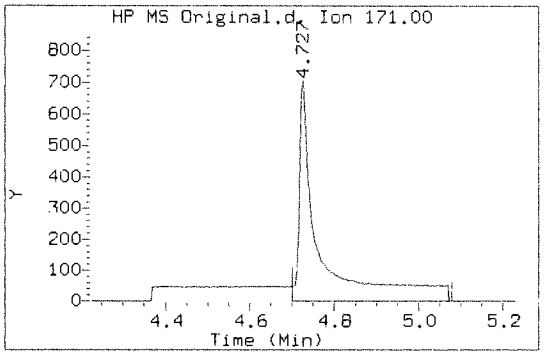
BEFORE
MASS
172
AREA
5057
HEIGHT
2060
31-May-2024
18:55
ALSHS
Server



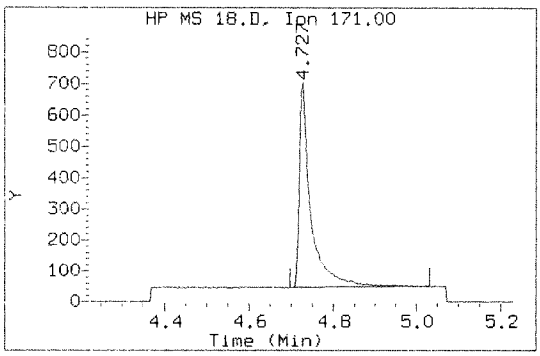
AFTER
MASS
172
AREA
3841
HEIGHT
2011
03-Jun-2024
11:14



BEFORE
MASS
171
AREA
2356
HEIGHT
705
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
171
AREA
1270
HEIGHT
658
03-Jun-2024
11:14



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Lab Smp Id: HS24051428-02
Inj Date : 31-MAY-2024 18:58
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
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

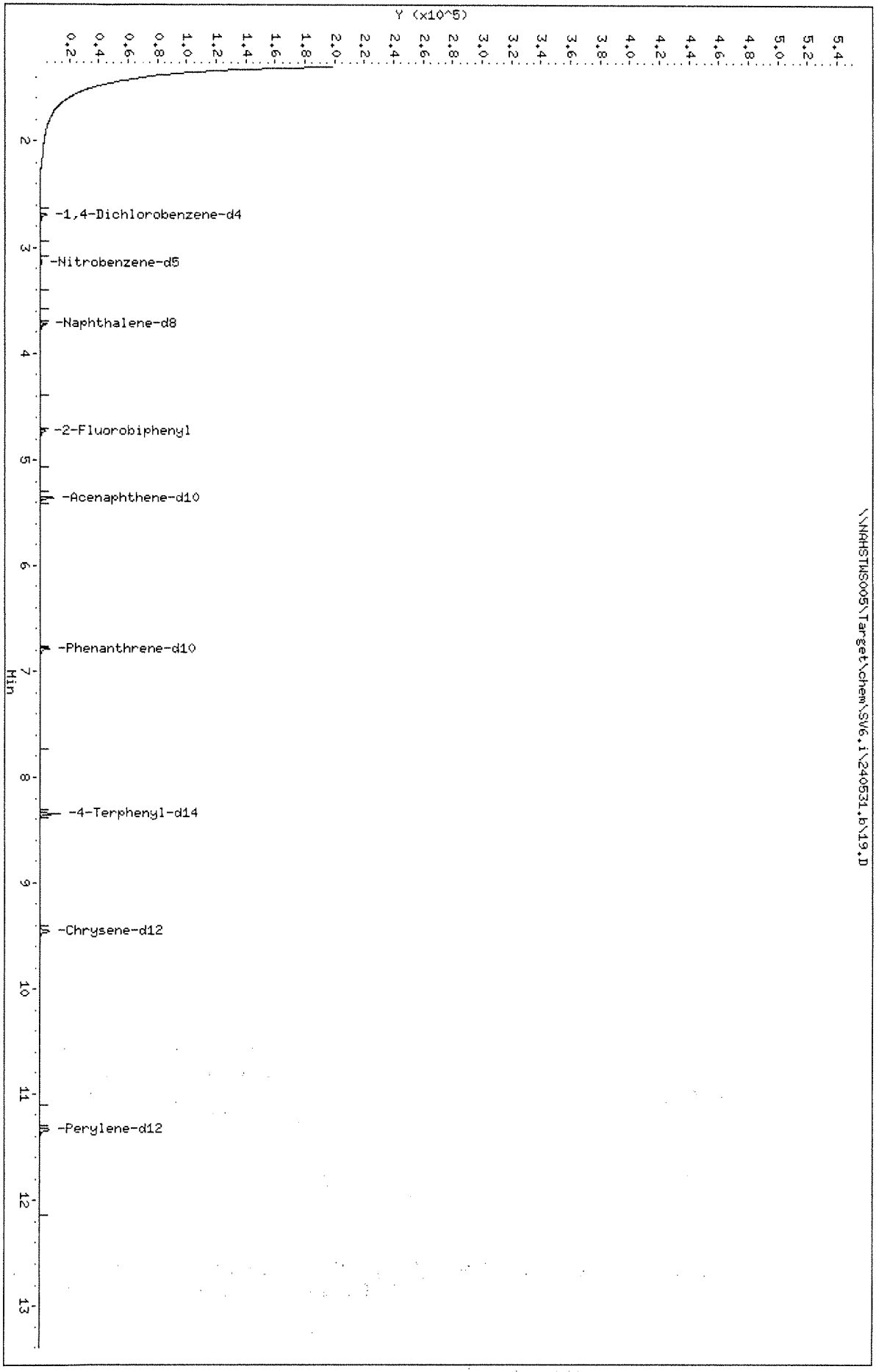
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.685	2.684	(1.000)	2413	0.10000		(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	8725	0.10000		
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.839)	1267	0.04837	0.04837	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4776	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4531	0.06206	0.06206	(M)
* 126 Phenanthrene-d10	188	6.784	6.789	(1.000)	8720	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	8393	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	13821	0.08083	0.08083	(M)
* 198 Perylene-d12	264	11.334	11.344	(1.000)	9138	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\240531.b\19.D
Date : 31-MAY-2024 18:58
Client ID:
Sample Info: HS24051428-02
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LC
Column diameter: 0.28

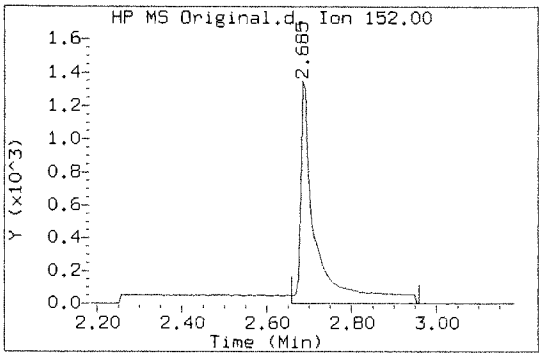


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

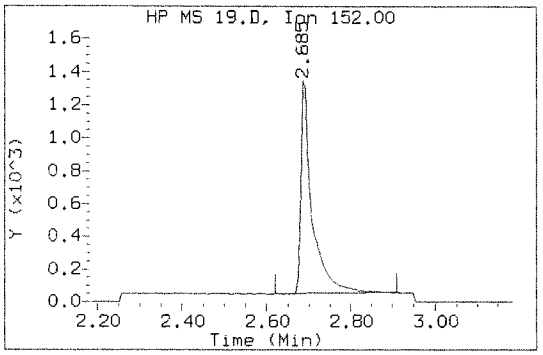
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

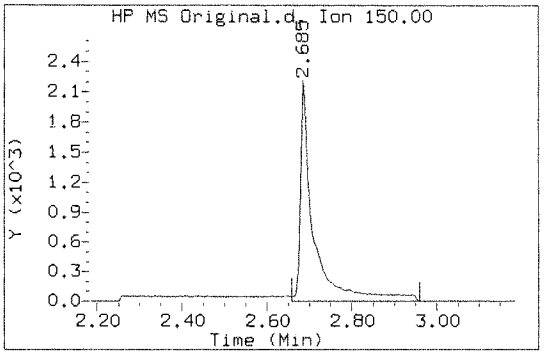
BEFORE
MASS
152
AREA
3366
HEIGHT
1347
31-May-2024
19:14
ALSHS
Server



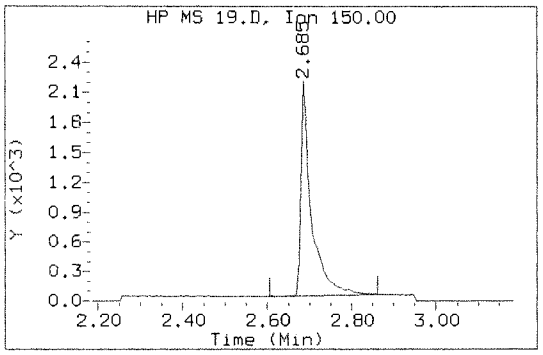
AFTER
MASS
152
AREA
2413
HEIGHT
1296
03-Jun-2024
10:28



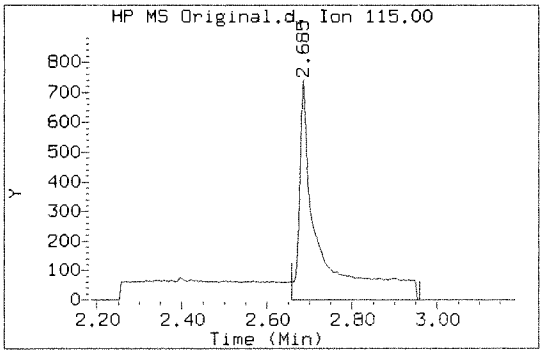
BEFORE
MASS
150
AREA
4798
HEIGHT
2217
31-May-2024
19:14
ALSHS
Server



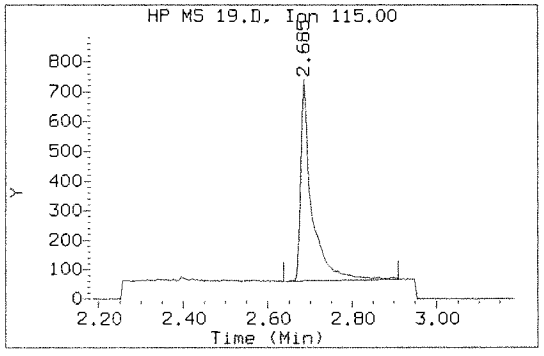
AFTER
MASS
150
AREA
3728
HEIGHT
2163
03-Jun-2024
10:28



BEFORE
MASS
115
AREA
2377
HEIGHT
742
31-May-2024
19:14
ALSHS
Server



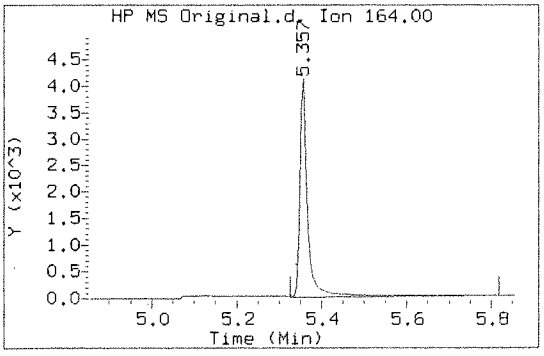
AFTER
MASS
115
AREA
1233
HEIGHT
679
03-Jun-2024
10:28



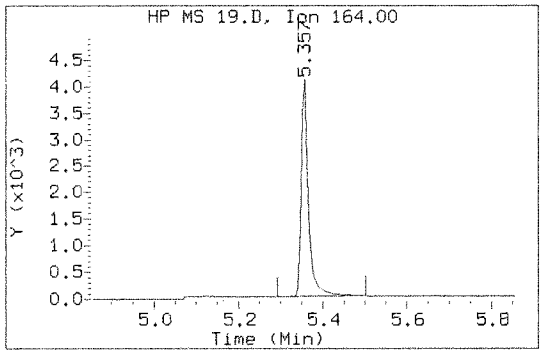
Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
164
AREA
5451
HEIGHT
4121
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
164
AREA
4776
HEIGHT
4086
03-Jun-2024
10:28

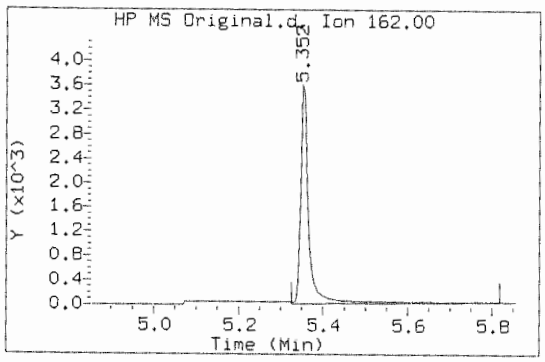


: \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

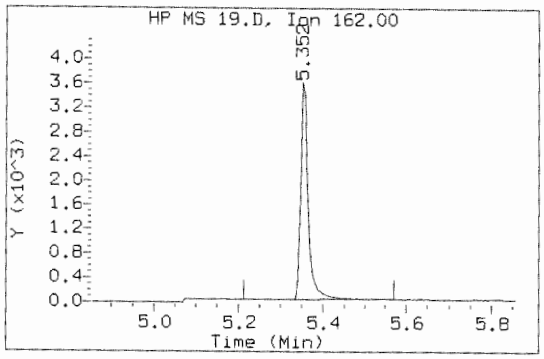
Acenaphthene-d10 (15067-26-2)

Reason Code:

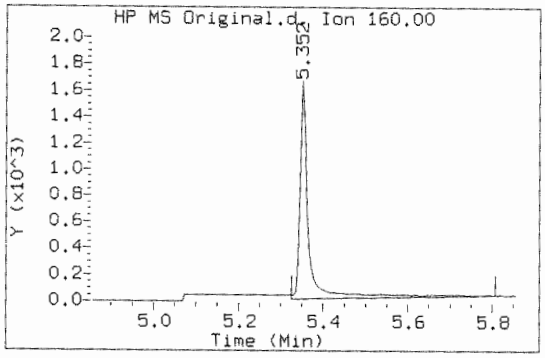
BEFORE
MASS
162
AREA
5022
HEIGHT
3600
31-May-2024
19:14
ALSHS
Server



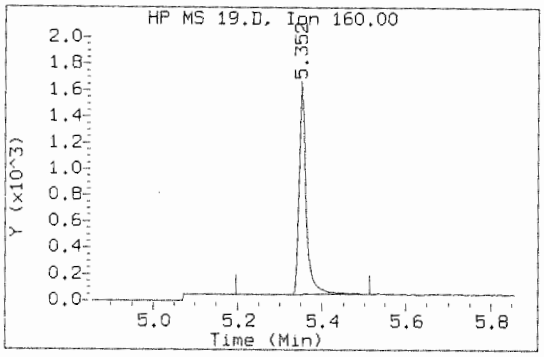
AFTER
MASS
162
AREA
4383
HEIGHT
3567
03-Jun-2024
10:28



BEFORE
MASS
160
AREA
2443
HEIGHT
1652
31-May-2024
19:14
ALSHS
Server



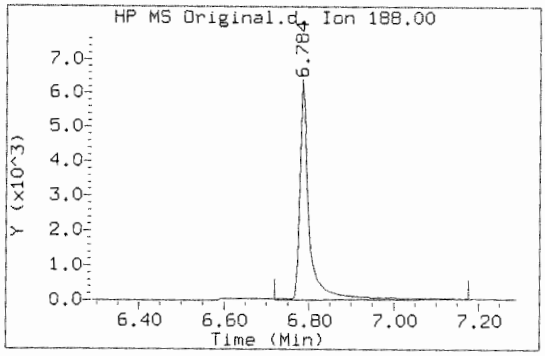
AFTER
MASS
160
AREA
1867
HEIGHT
1621
03-Jun-2024
10:28



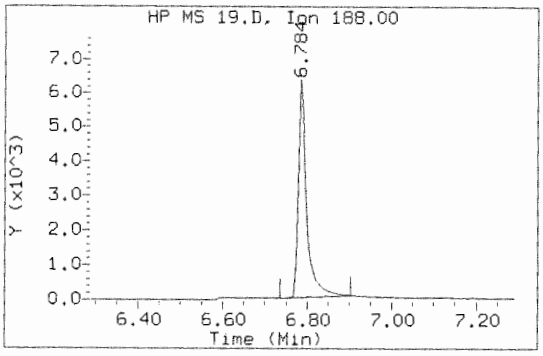
Phenanthrene-d10 (1517-22-2)

Reason Code:

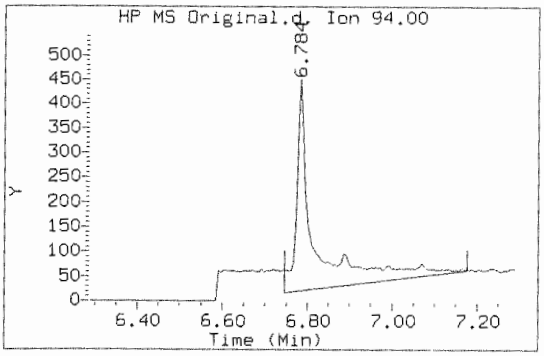
BEFORE
MASS
188
AREA
10149
HEIGHT
6395
31-May-2024
19:14
ALSHS
Server



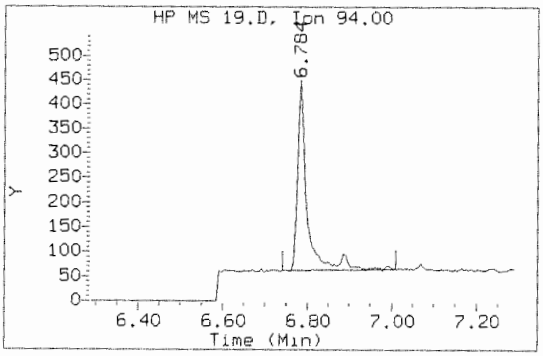
AFTER
MASS
188
AREA
8720
HEIGHT
6340
03-Jun-2024
10:28



BEFORE
MASS
94
AREA
1252
HEIGHT
430
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
94
AREA
602
HEIGHT
388
03-Jun-2024
10:28

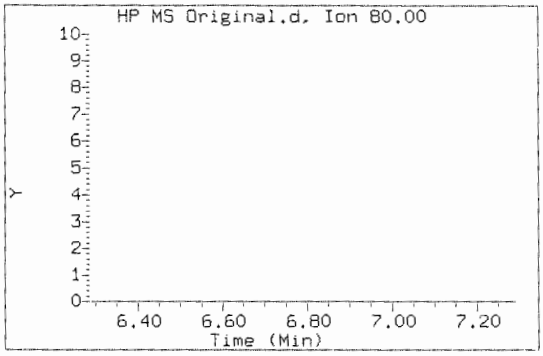


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

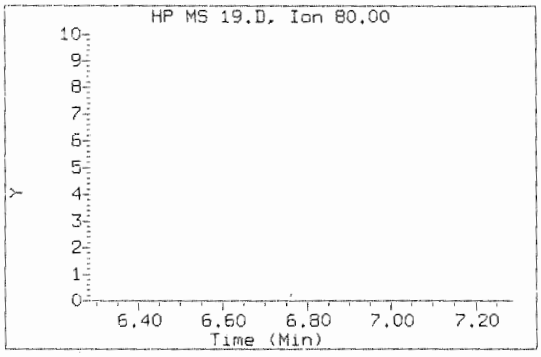
Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
19:14
ALSHS
Server



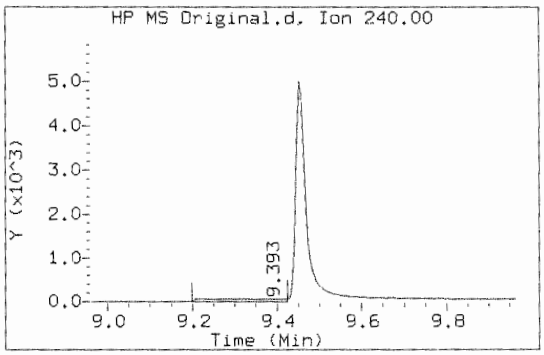
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
10:28



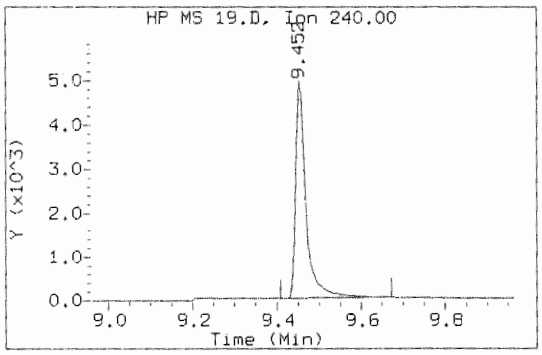
Chrysene-d12 (1719-03-5)

Reason Code:

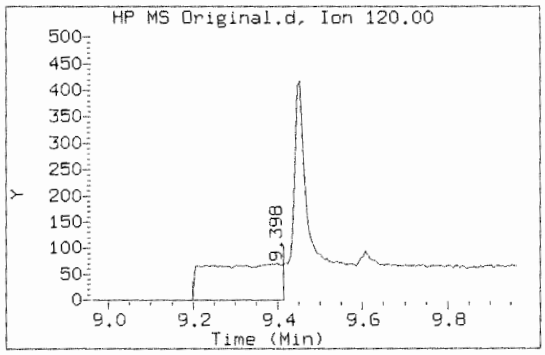
BEFORE
MASS
240
AREA
727
HEIGHT
60
31-May-2024
19:14
ALSHS
Server



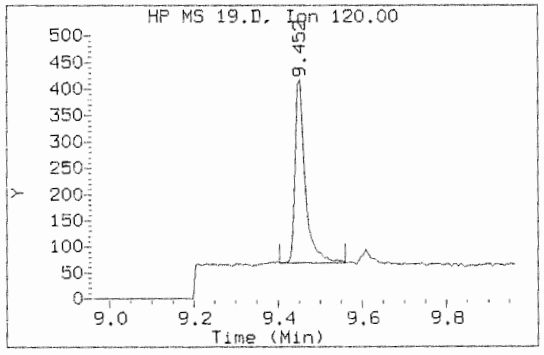
AFTER
MASS
240
AREA
8393
HEIGHT
4935
03-Jun-2024
10:28



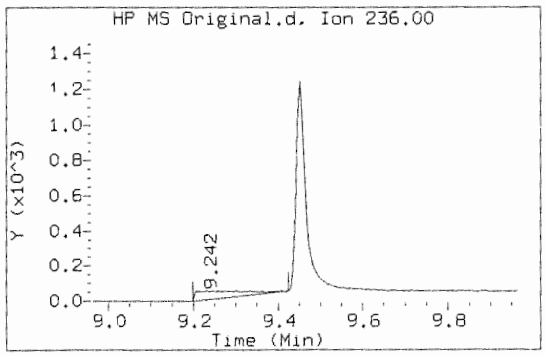
BEFORE
MASS
120
AREA
856
HEIGHT
71
31-May-2024
19:14
ALSHS
Server



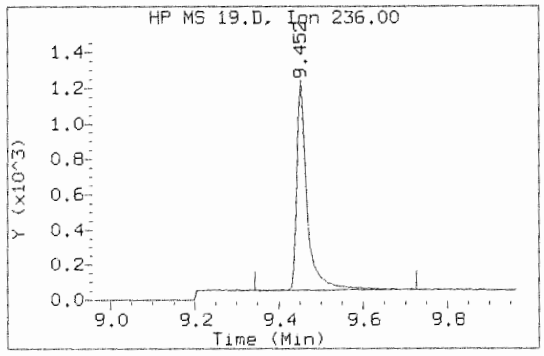
AFTER
MASS
120
AREA
581
HEIGHT
349
03-Jun-2024
10:28



BEFORE
MASS
236
AREA
343
HEIGHT
46
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
236
AREA
1977
HEIGHT
1185
03-Jun-2024
10:28

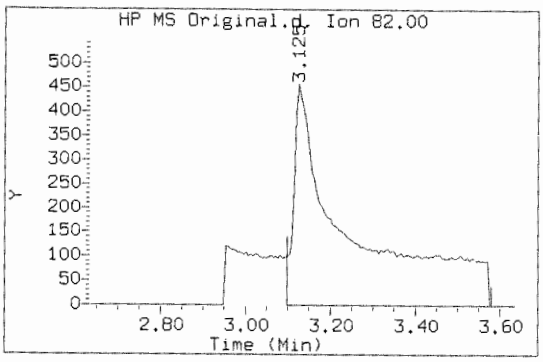


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

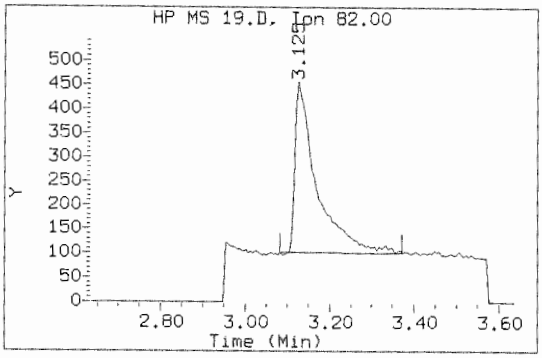
Nitrobenzene-d5 (4165-60-0)

Reason Code:

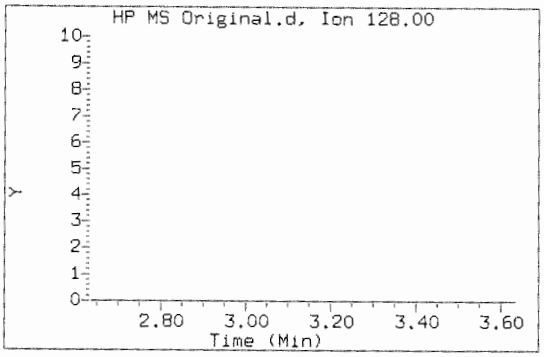
BEFORE
MASS
82
AREA
4109
HEIGHT
457
31-May-2024
19:14
ALSHS
Server



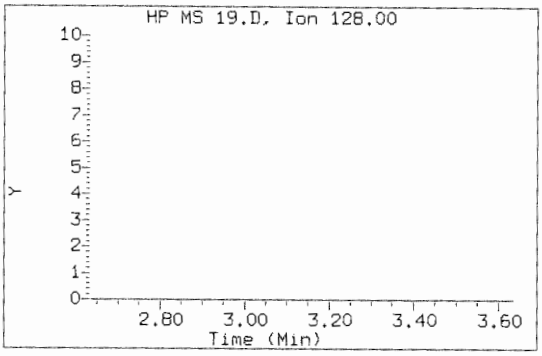
AFTER
MASS
82
AREA
1267
HEIGHT
355
03-Jun-2024
10:28



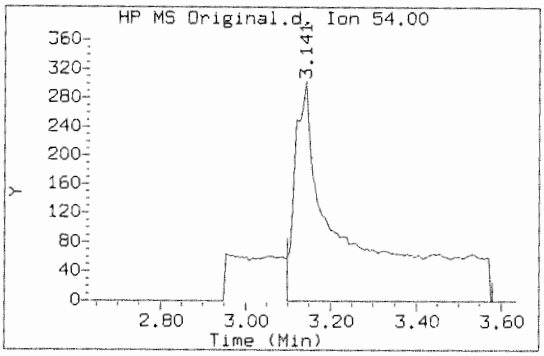
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:14
ALSHS
Server



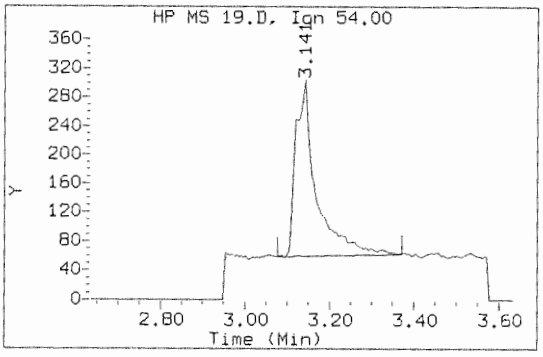
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:28



BEFORE
MASS
54
AREA
2557
HEIGHT
304
31-May-2024
19:14
ALSHS
Server



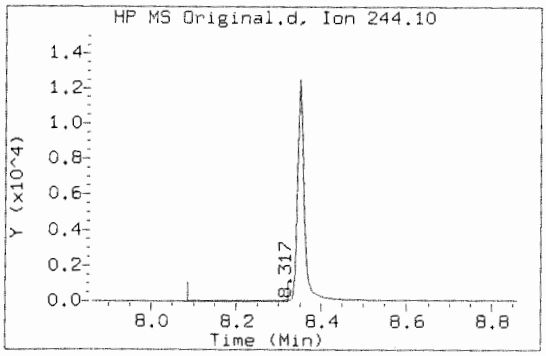
AFTER
MASS
54
AREA
825
HEIGHT
244
03-Jun-2024
10:28



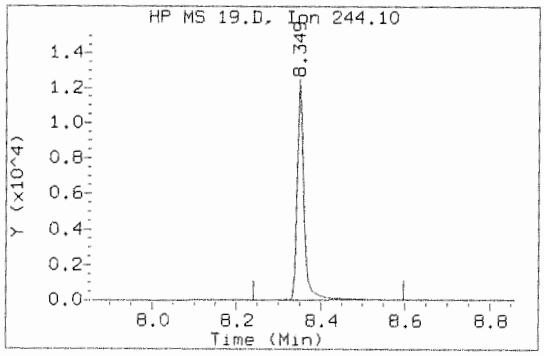
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
734
HEIGHT
55
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
244.1
AREA
13821
HEIGHT
12465
03-Jun-2024
10:28

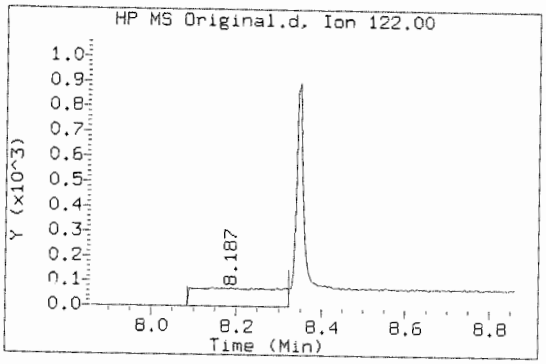


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

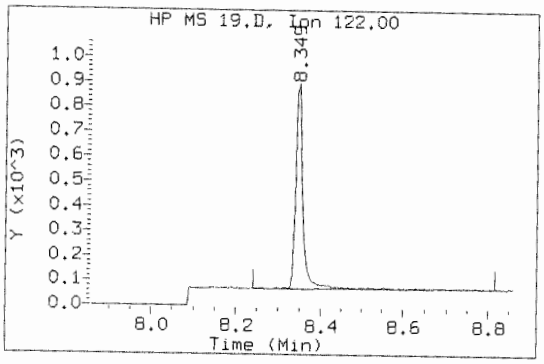
4-Terphenyl-d14 (1718-51-0)

Reason Code:

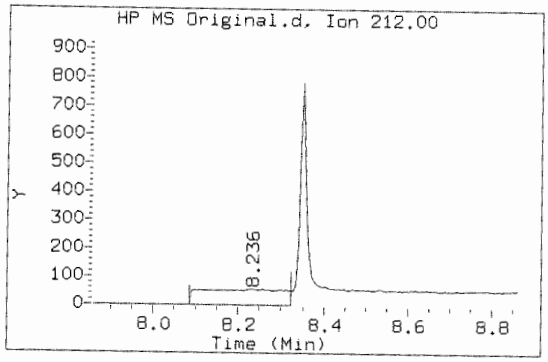
BEFORE
MASS
122
AREA
1013
HEIGHT
76
31-May-2024
19:14
ALSHS
Server



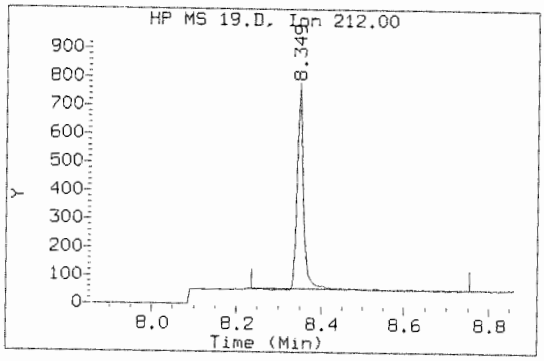
AFTER
MASS
122
AREA
1024
HEIGHT
825
03-Jun-2024
10:28



BEFORE
MASS
212
AREA
752
HEIGHT
57
31-May-2024
19:14
ALSHS
Server



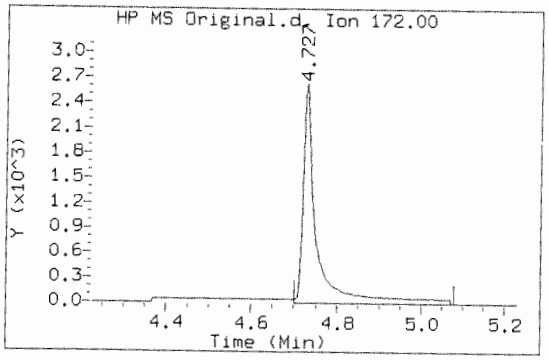
AFTER
MASS
212
AREA
719
HEIGHT
726
03-Jun-2024
10:28



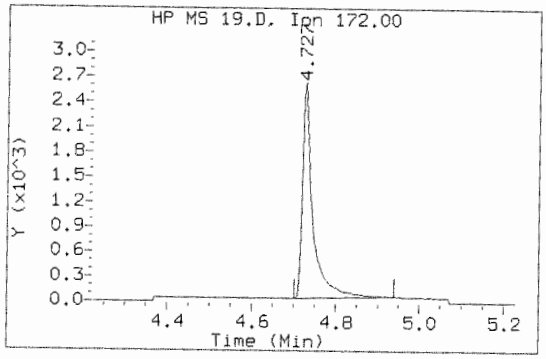
2-Fluorobiphenyl (321-60-8)

Reason Code:

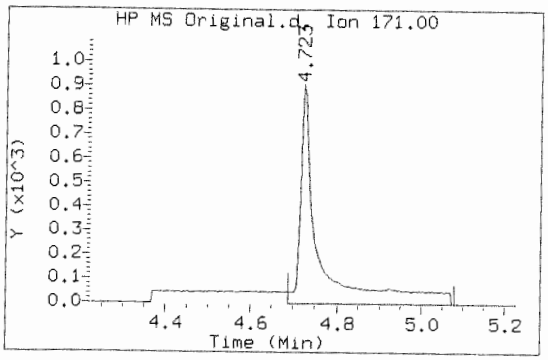
BEFORE
MASS
172
AREA
5826
HEIGHT
2639
31-May-2024
19:14
ALSHS
Server



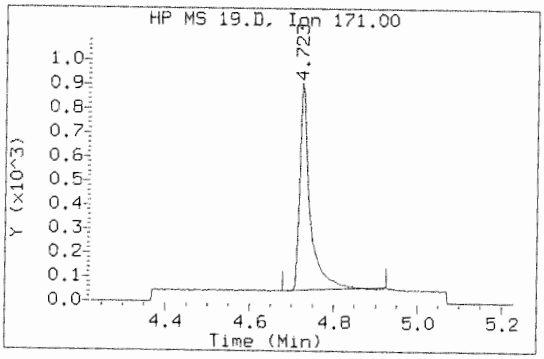
AFTER
MASS
172
AREA
4531
HEIGHT
2590
03-Jun-2024
10:28



BEFORE
MASS
171
AREA
2680
HEIGHT
909
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
171
AREA
1442
HEIGHT
860
03-Jun-2024
10:28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D
Lab Smp Id: HS24051428-03
Inj Date : 31-MAY-2024 19:15
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
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

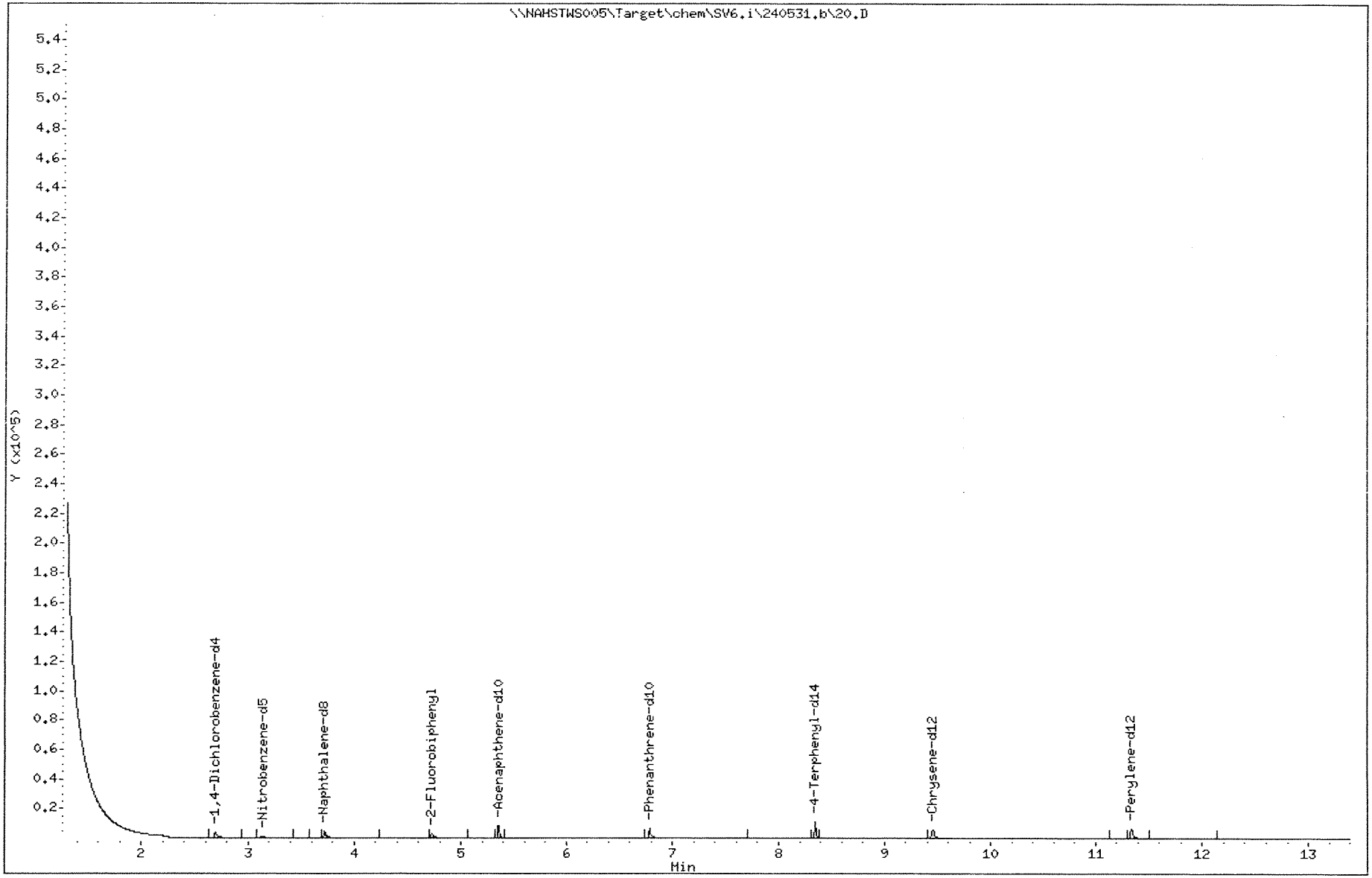
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2244	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7309	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	1368	0.06235	0.06235	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4397	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4303	0.06402	0.06402	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8731	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	7990	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	11112	0.06827	0.06827	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	8421	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\240531.b\20.D
Date : 31-MAY-2024 19:15
Client ID:
Sample Info: HS24051428-03
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

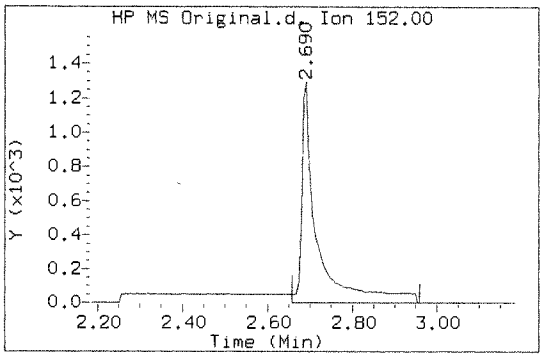


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D
Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

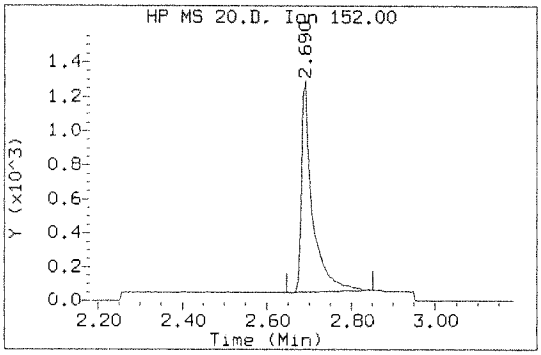
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

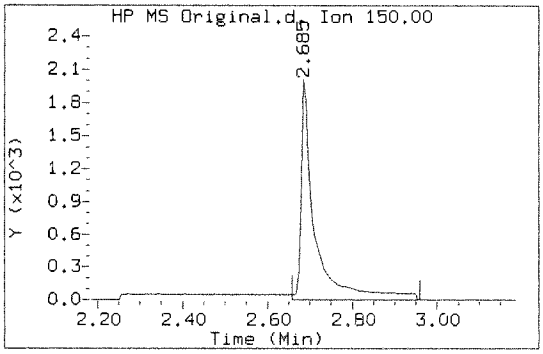
BEFORE
MASS
152
AREA
3250
HEIGHT
1295
31-May-2024
19:34
ALSHS
Server



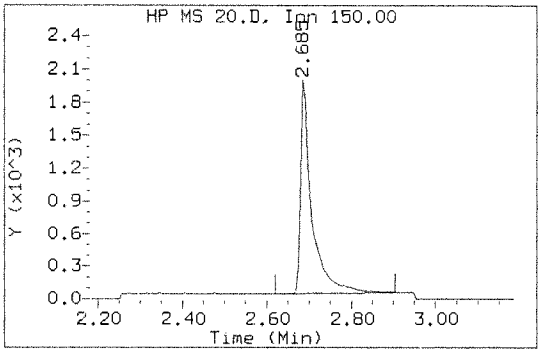
AFTER
MASS
152
AREA
2244
HEIGHT
1242
03-Jun-2024
10:28



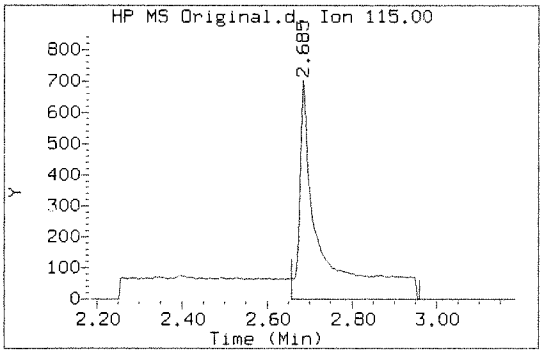
BEFORE
MASS
150
AREA
4564
HEIGHT
2005
31-May-2024
19:34
ALSHS
Server



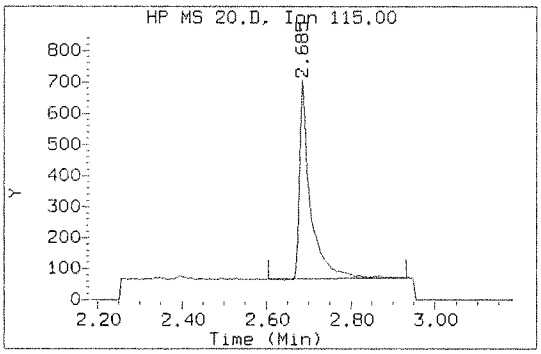
AFTER
MASS
150
AREA
3581
HEIGHT
1954
03-Jun-2024
10:28



BEFORE
MASS
115
AREA
2354
HEIGHT
705
31-May-2024
19:34
ALSHS
Server



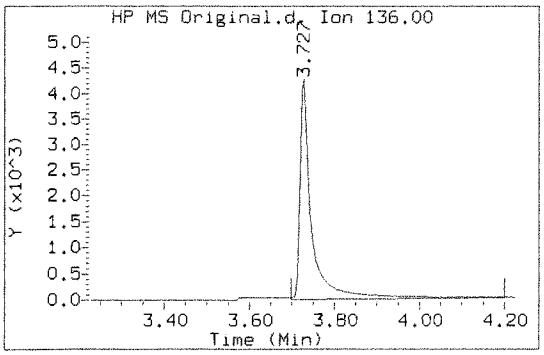
AFTER
MASS
115
AREA
1127
HEIGHT
637
03-Jun-2024
10:28



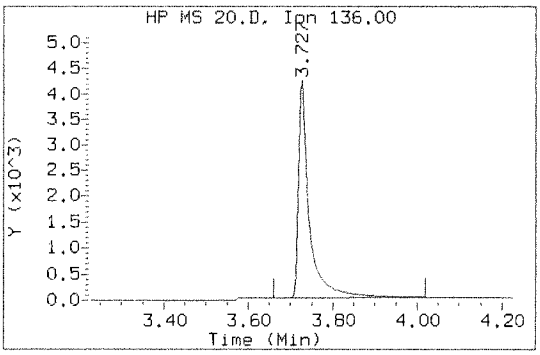
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8232
HEIGHT
4266
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
136
AREA
7308
HEIGHT
4225
03-Jun-2024
10:28

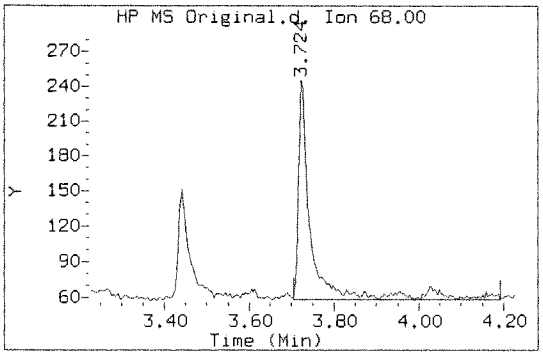


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

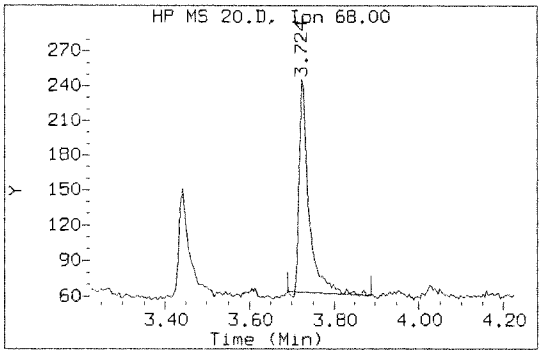
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
398
HEIGHT
188
31-May-2024
19:34
ALSHS
Server



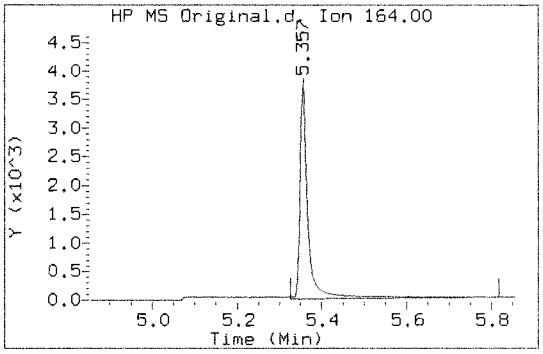
AFTER
MASS
68
AREA
282
HEIGHT
182
03-Jun-2024
10:28



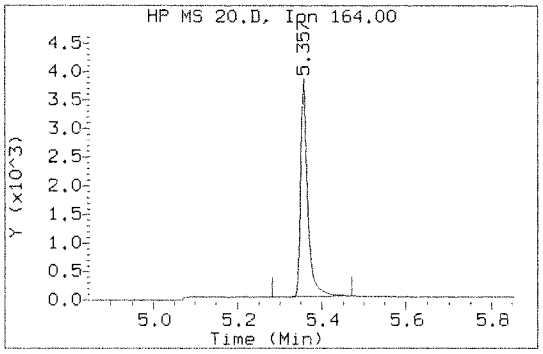
Acenaphthene-d10 (15067-26-2)

Reason Code:

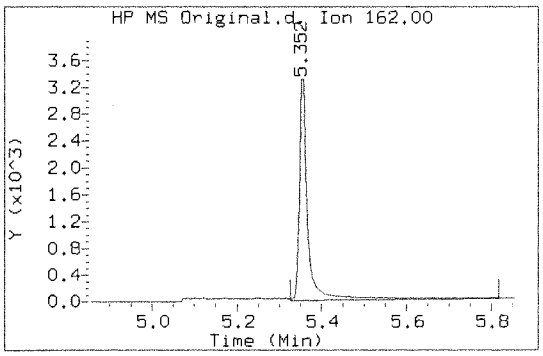
BEFORE
MASS
164
AREA
5233
HEIGHT
3862
31-May-2024
19:34
ALSHS
Server



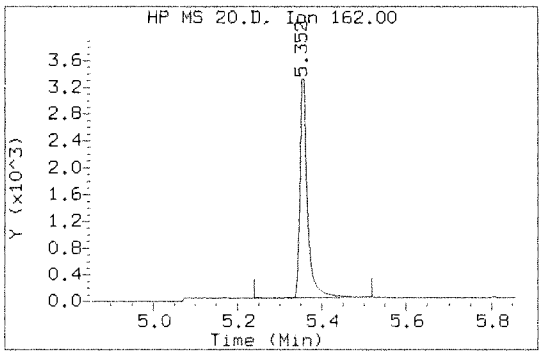
AFTER
MASS
164
AREA
4397
HEIGHT
3821
03-Jun-2024
10:28



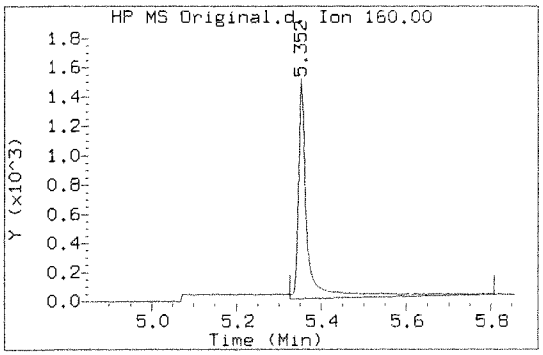
BEFORE
MASS
162
AREA
4825
HEIGHT
3299
31-May-2024
19:34
ALSHS
Server



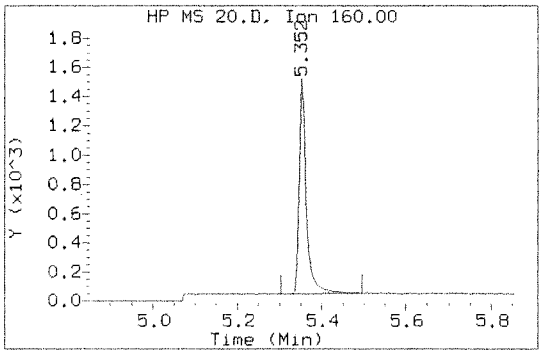
AFTER
MASS
162
AREA
4086
HEIGHT
3262
03-Jun-2024
10:28



BEFORE
MASS
160
AREA
2297
HEIGHT
1503
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
160
AREA
1733
HEIGHT
1472
03-Jun-2024
10:28

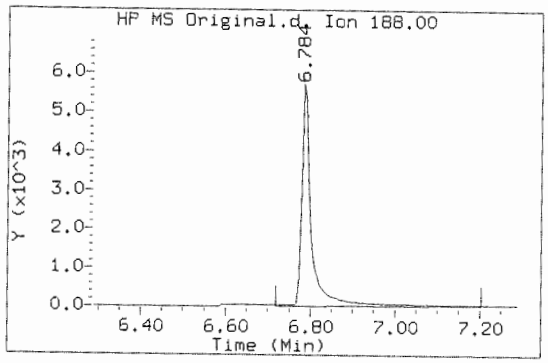


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

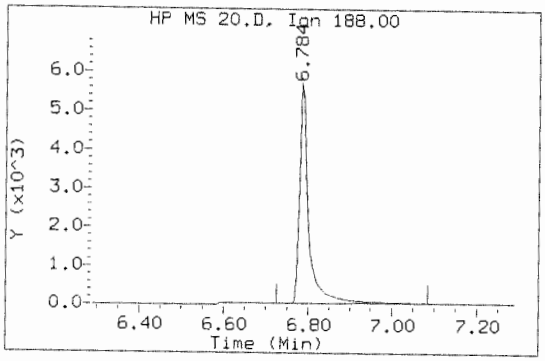
Phenanthrene-d10 (1517-22-2)

Reason Code:

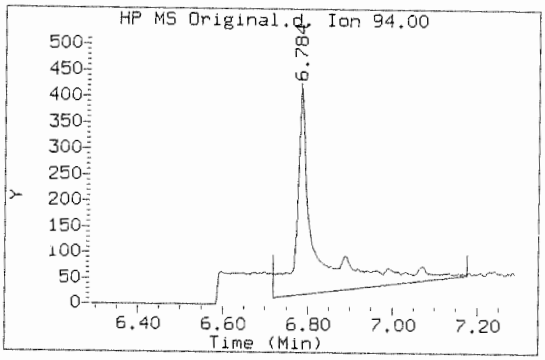
BEFORE
MASS
188
AREA
9601
HEIGHT
5711
31-May-2024
19:34
ALSHS
Server



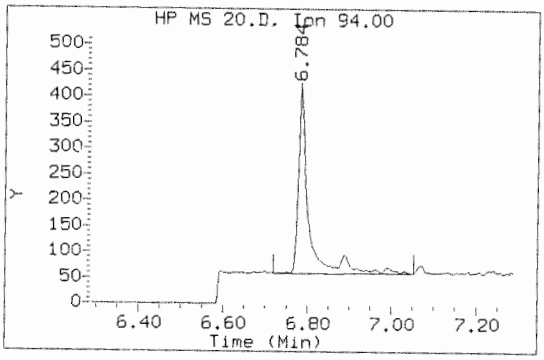
AFTER
MASS
188
AREA
8731
HEIGHT
5675
03-Jun-2024
10:28



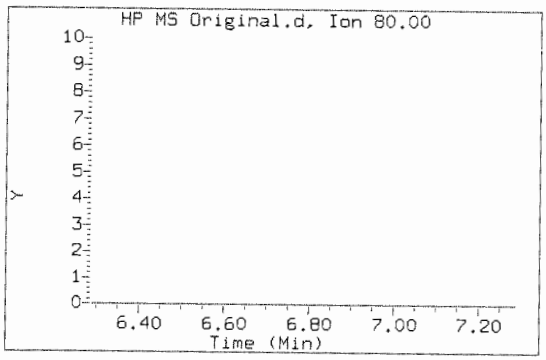
BEFORE
MASS
94
AREA
1309
HEIGHT
406
31-May-2024
19:34
ALSHS
Server



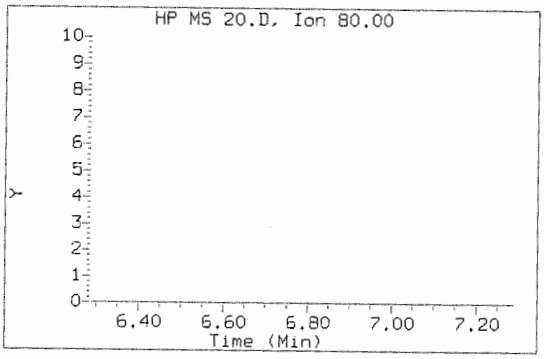
AFTER
MASS
94
AREA
636
HEIGHT
367
03-Jun-2024
10:28



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



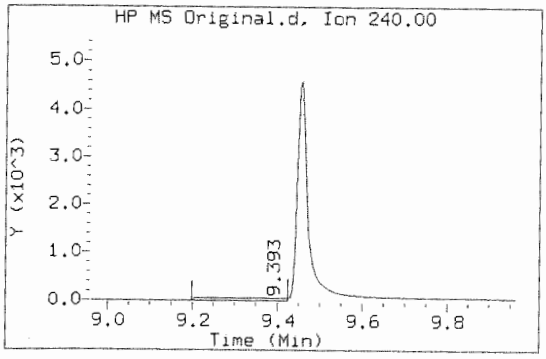
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
10:28



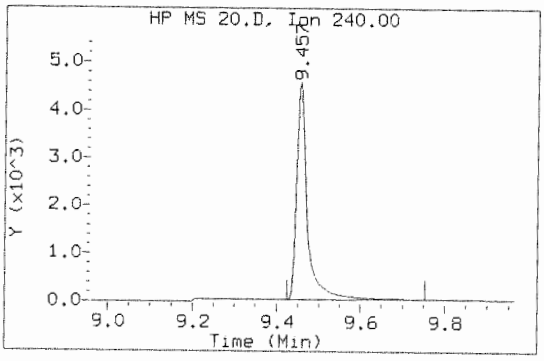
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
709
HEIGHT
56
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
240
AREA
7990
HEIGHT
4536
03-Jun-2024
10:28

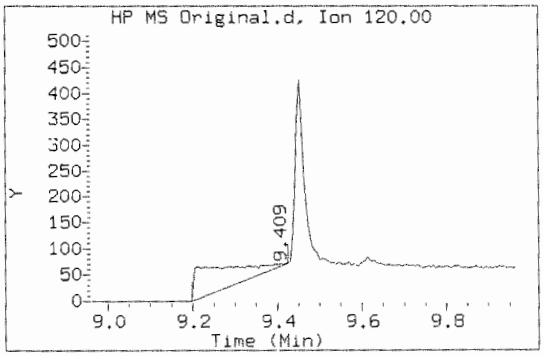


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

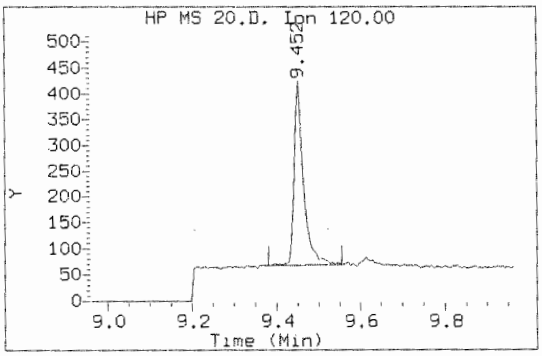
Chrysene-d12 (1719-03-5)

Reason Code:

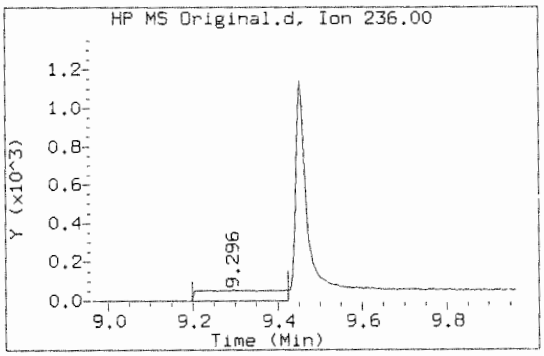
BEFORE
MASS
120
AREA
397
HEIGHT
5
31-May-2024
19:34
ALSHS
Server



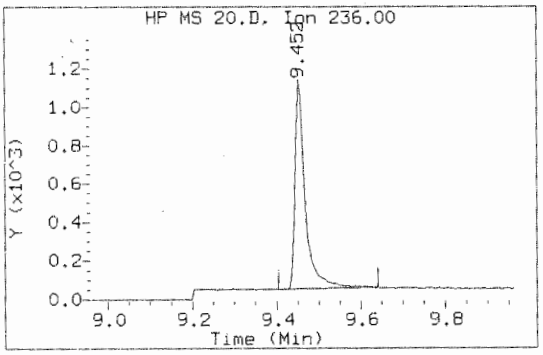
AFTER
MASS
120
AREA
546
HEIGHT
356
03-Jun-2024
10:28



BEFORE
MASS
236
AREA
719
HEIGHT
55
31-May-2024
19:34
ALSHS
Server



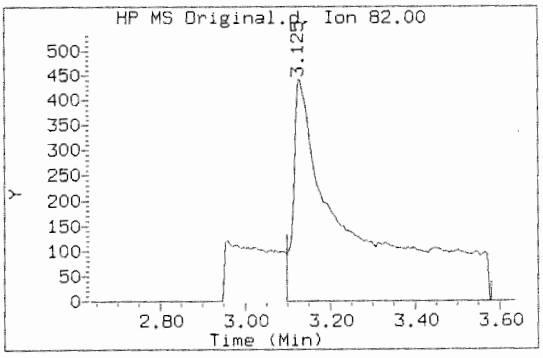
AFTER
MASS
236
AREA
1809
HEIGHT
1086
03-Jun-2024
10:28



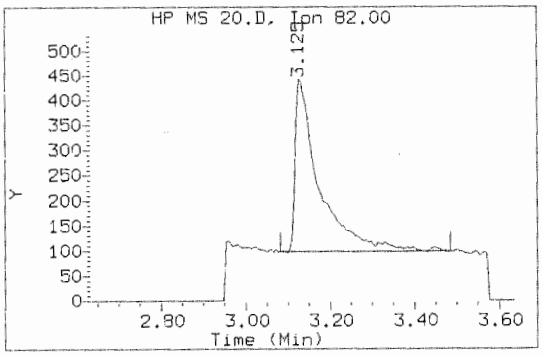
Nitrobenzene-d5 (4165-60-0)

Reason Code:

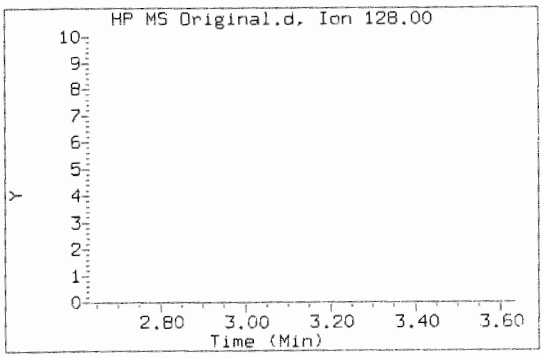
BEFORE
MASS
82
AREA
4151
HEIGHT
442
31-May-2024
19:34
ALSHS
Server



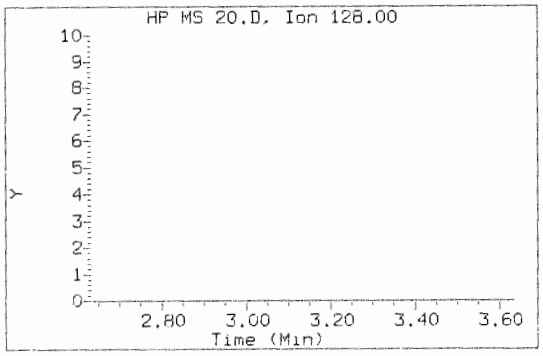
AFTER
MASS
82
AREA
1368
HEIGHT
344
03-Jun-2024
10:28



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:28

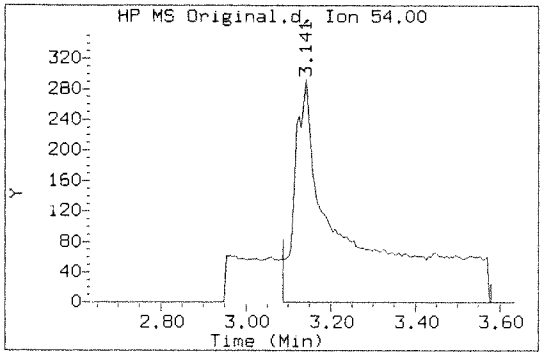


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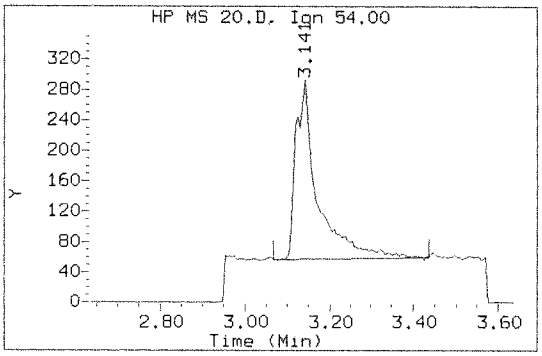
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2554
HEIGHT
293
31-May-2024
19:34
ALSHS
Server



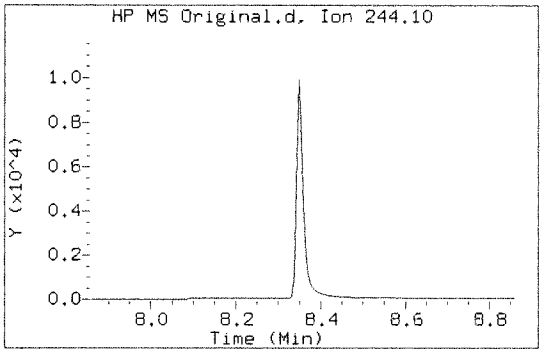
AFTER
MASS
54
AREA
842
HEIGHT
235
03-Jun-2024
10:28



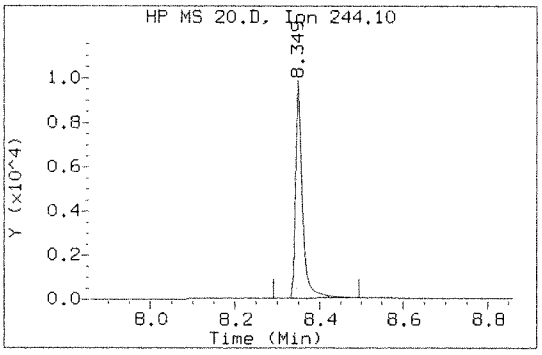
4-Terphenyl-d14 (1718-51-0)

Reason Code:

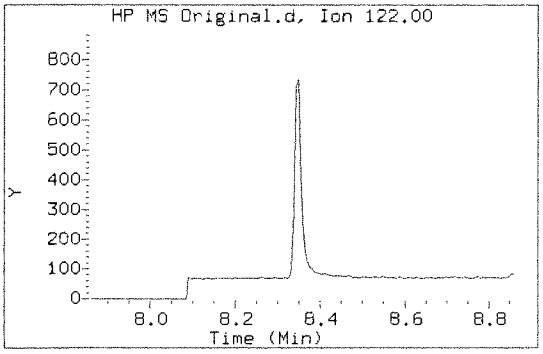
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



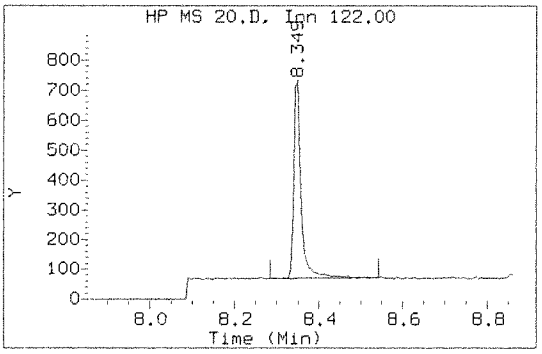
AFTER
MASS
244.1
AREA
11112
HEIGHT
9839
03-Jun-2024
10:28



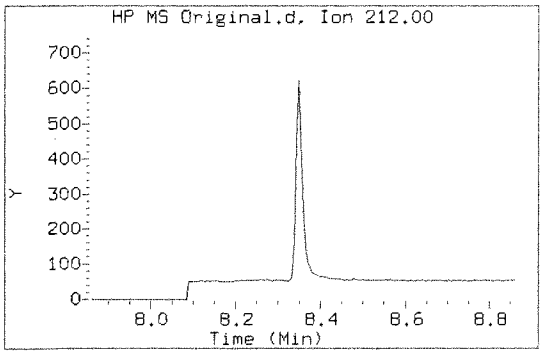
BEFORE
MASS
122
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



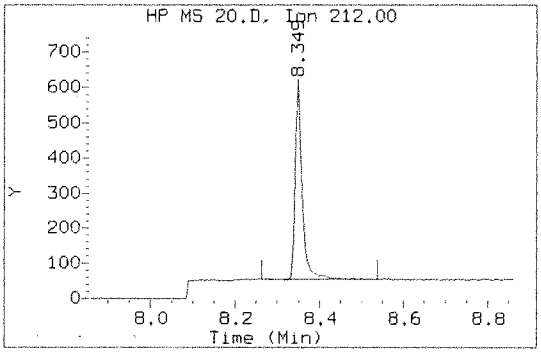
AFTER
MASS
122
AREA
798
HEIGHT
664
03-Jun-2024
10:28



BEFORE
MASS
212
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
212
AREA
628
HEIGHT
569
03-Jun-2024
10:28

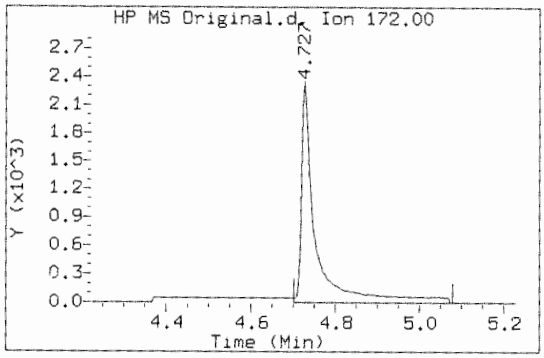


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Inj Date : 31-MAY-2024 19:15
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LabSampID : HS24051428-03

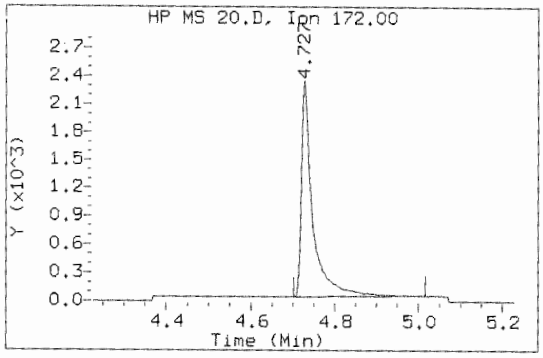
2-Fluorobiphenyl (321-60-8)

Reason Code:

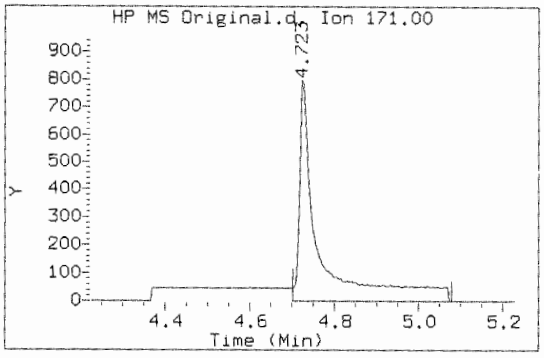
BEFORE
MASS
172
AREA
5522
HEIGHT
2351
31-May-2024
19:34
ALSHS
Server



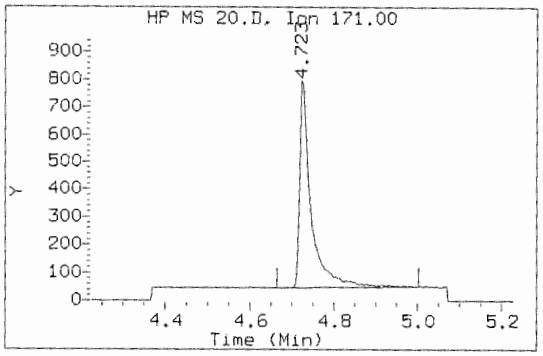
AFTER
MASS
172
AREA
4303
HEIGHT
2303
03-Jun-2024
10:28



BEFORE
MASS
171
AREA
2535
HEIGHT
797
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
171
AREA
1429
HEIGHT
750
03-Jun-2024
10:28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Lab Smp Id: HS24051434-04
Inj Date : 31-MAY-2024 19:33
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
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

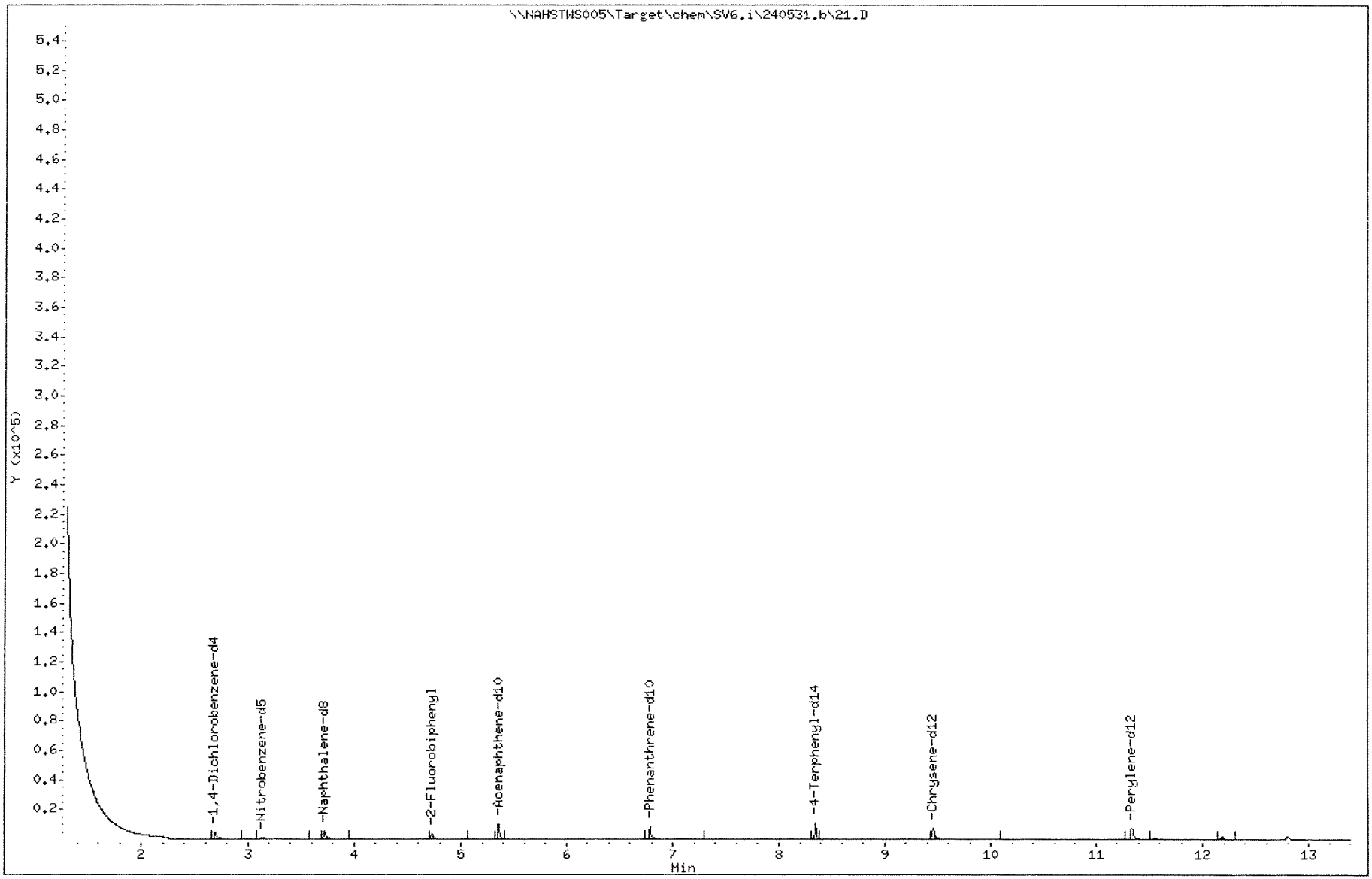
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2790	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	8841	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.130	3.135	(0.840)	1499	0.05648	0.05648	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5540	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4645	0.05485	0.05485	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	10708	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	10074	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	11392	0.05551	0.05551	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	10810	0.10000		(M)
1 1,4-Dioxane	58	1.282	1.267	(0.477)	1338	0.22389	0.2239	(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\240531.b\21.D
Date : 31-MAY-2024 19:33
Client ID:
Sample Info: HS24051434-04
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\240531.b\21.D

Date : 31-MAY-2024 19:33

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-04

Purge Volume: 1000.0

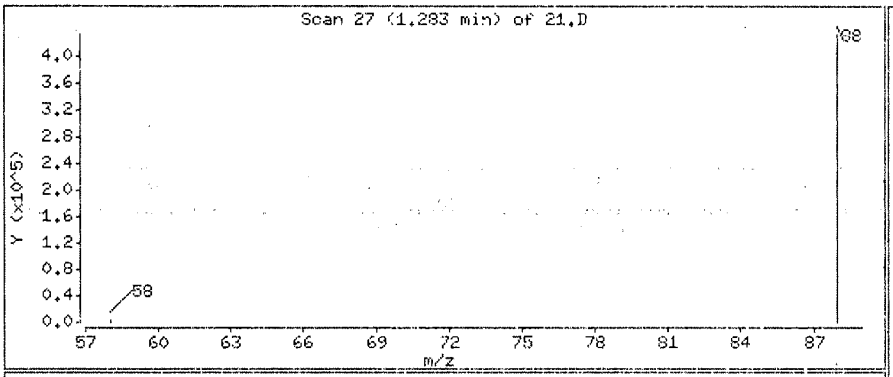
Operator: LG

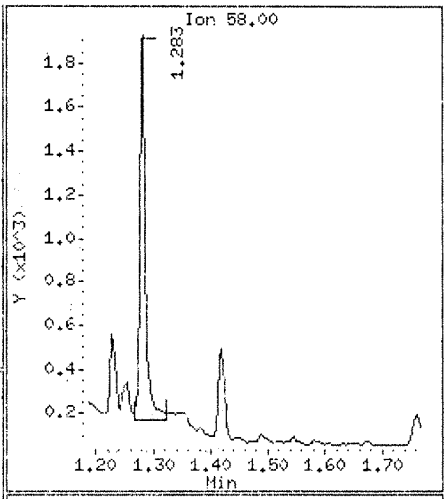
Column phase: RTX-5SIL MS

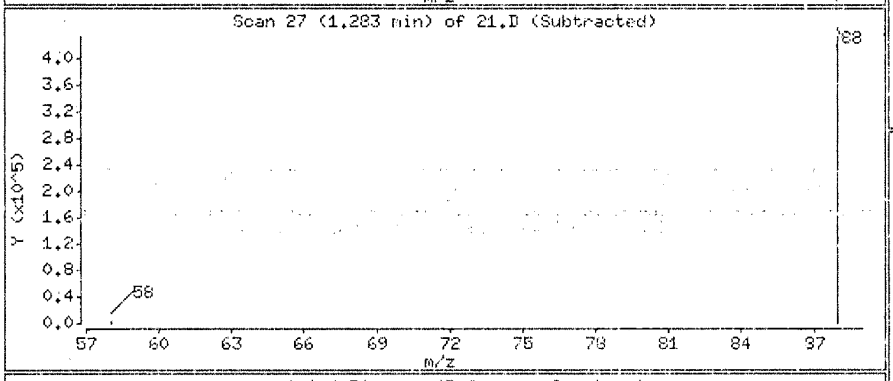
Column diameter: 0.28

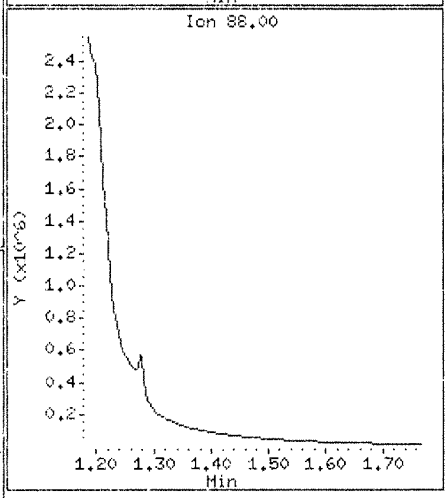
1 1,4-Dioxane

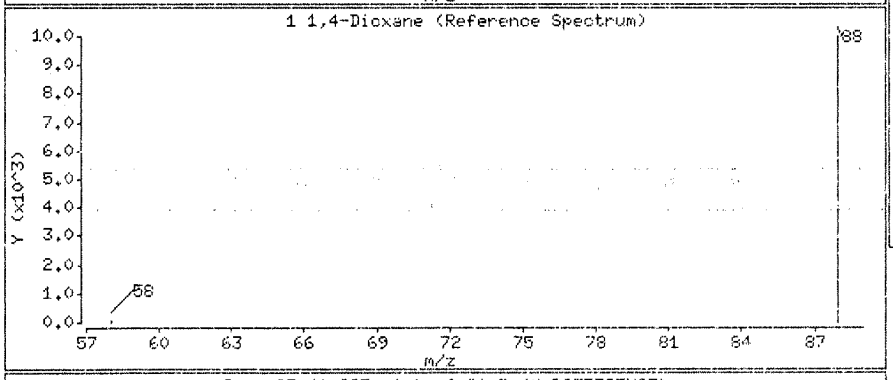
Concentration: 0.2239 ug/L

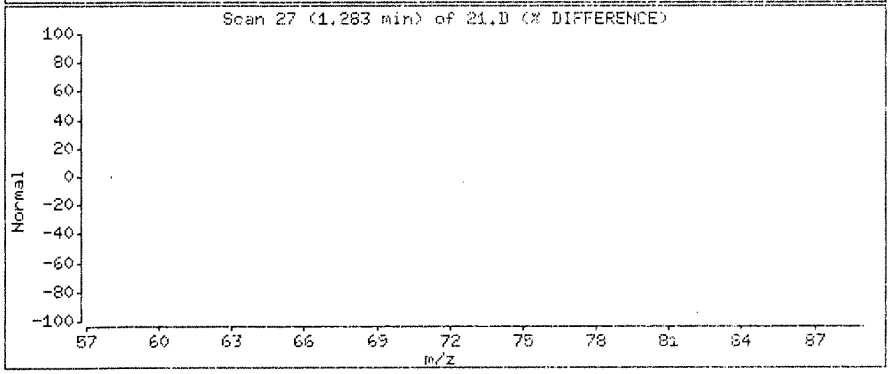










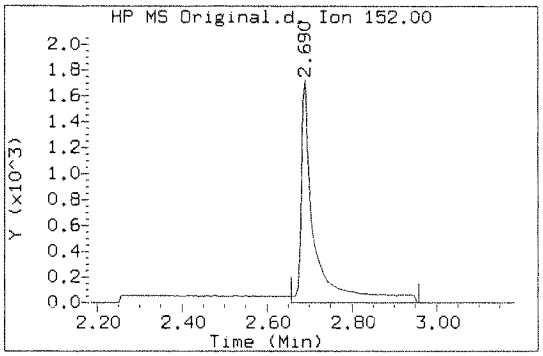


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

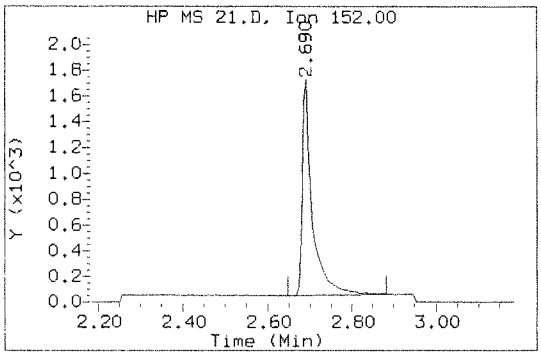
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

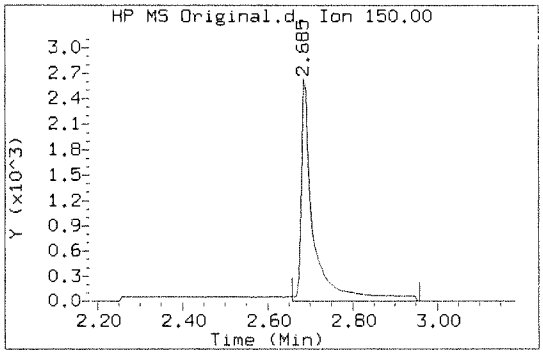
BEFORE
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152
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3774
HEIGHT
1729
31-May-2024
19:48
ALSHS
Server



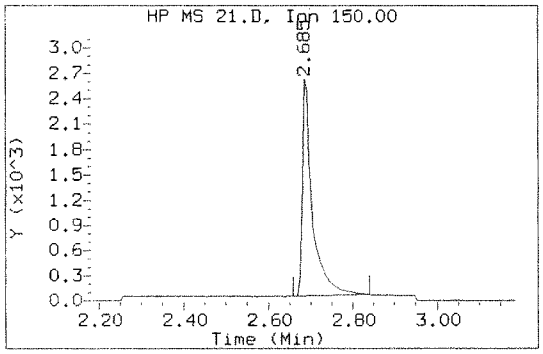
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AREA
2790
HEIGHT
1677
03-Jun-2024
10:31



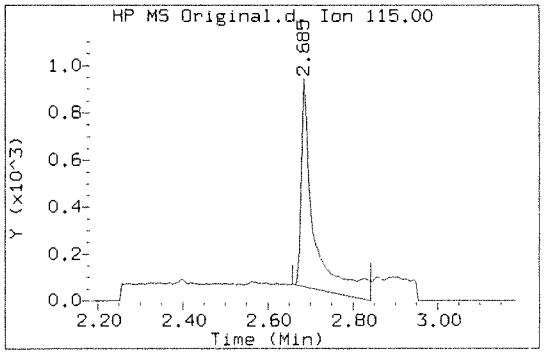
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AREA
5401
HEIGHT
2635
31-May-2024
19:48
ALSHS
Server



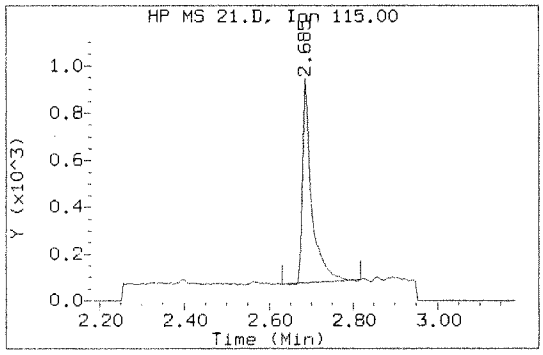
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MASS
150
AREA
4277
HEIGHT
2581
03-Jun-2024
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BEFORE
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AREA
1835
HEIGHT
883
31-May-2024
19:48
ALSHS
Server



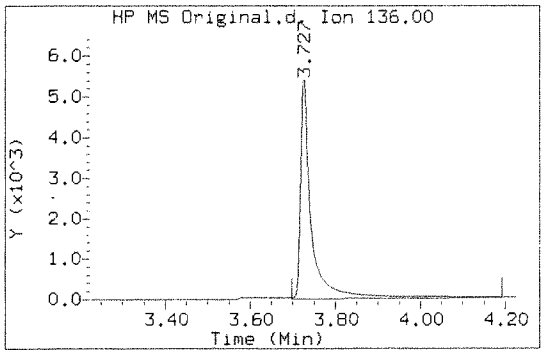
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AREA
1290
HEIGHT
866
03-Jun-2024
10:31



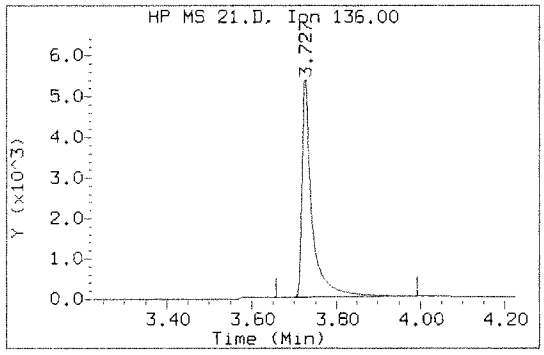
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9911
HEIGHT
5393
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
136
AREA
8841
HEIGHT
5352
03-Jun-2024
10:31

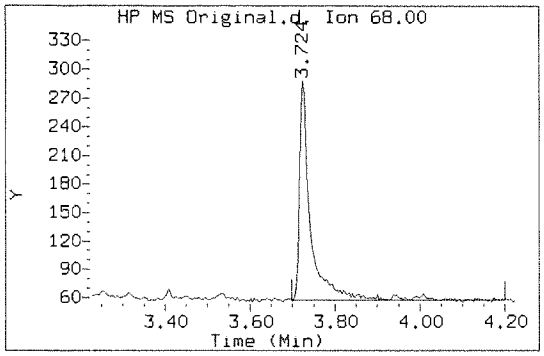


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Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

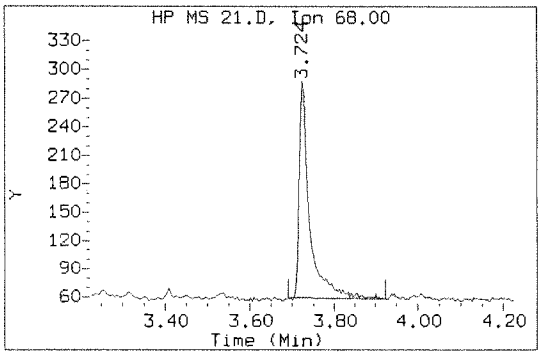
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
435
HEIGHT
231
31-May-2024
19:48
ALSHS
Server



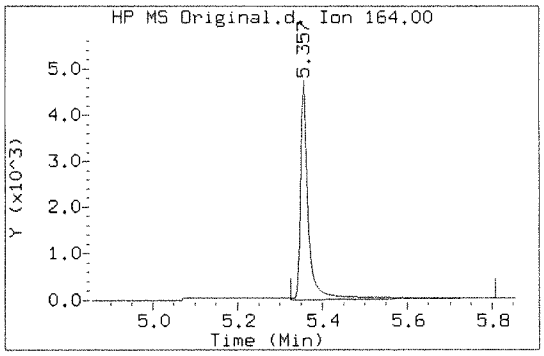
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AREA
393
HEIGHT
229
03-Jun-2024
10:31



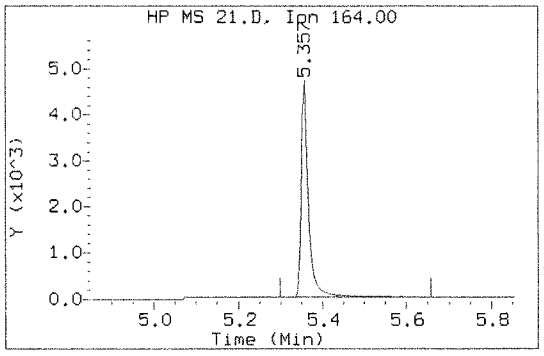
Acenaphthene-d10 (15067-26-2)

Reason Code:

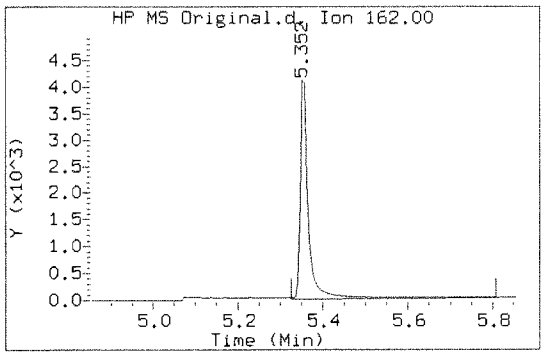
BEFORE
MASS
164
AREA
6115
HEIGHT
4738
31-May-2024
19:48
ALSHS
Server



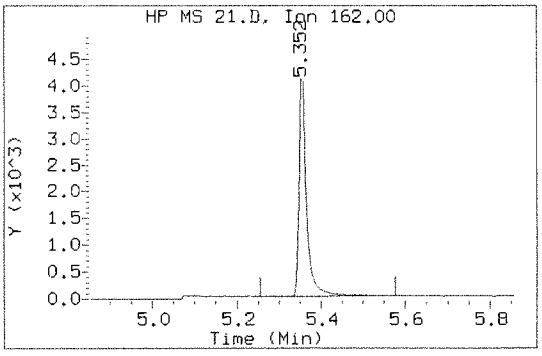
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AREA
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HEIGHT
4707
03-Jun-2024
10:31



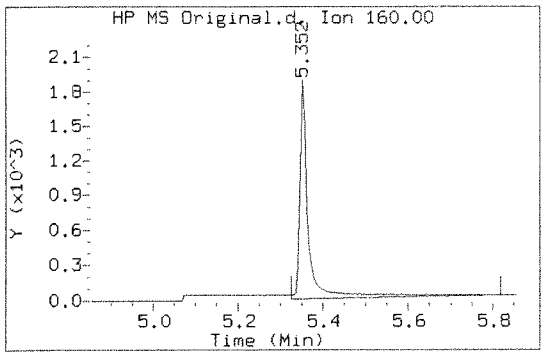
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AREA
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31-May-2024
19:48
ALSHS
Server



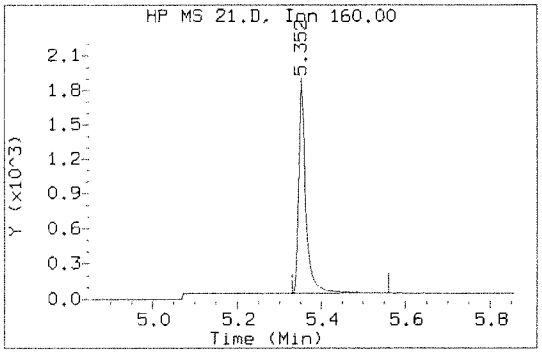
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AREA
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HEIGHT
4072
03-Jun-2024
10:31



BEFORE
MASS
160
AREA
2696
HEIGHT
1885
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
160
AREA
2136
HEIGHT
1853
03-Jun-2024
10:31

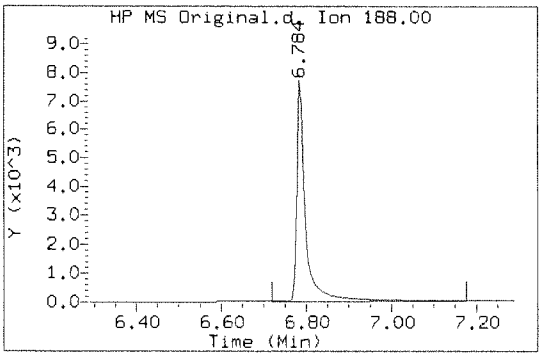


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

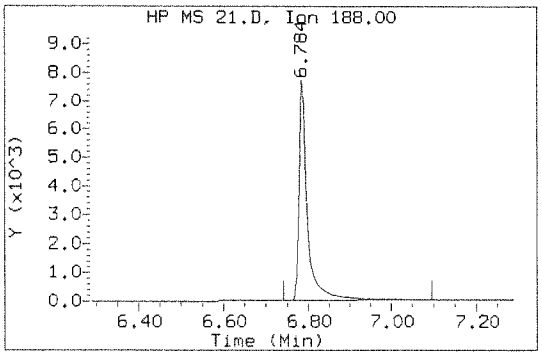
Phenanthrene-d10 (1517-22-2)

Reason Code:

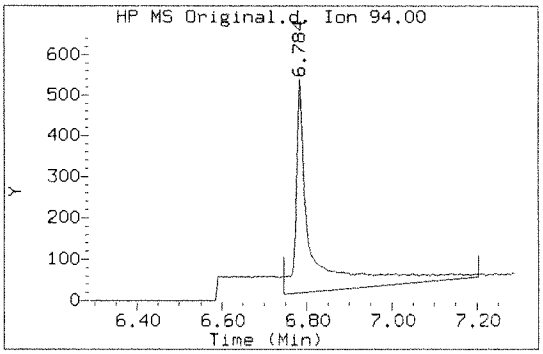
BEFORE
MASS
188
AREA
11463
HEIGHT
7733
31-May-2024
19:48
ALSHS
Server



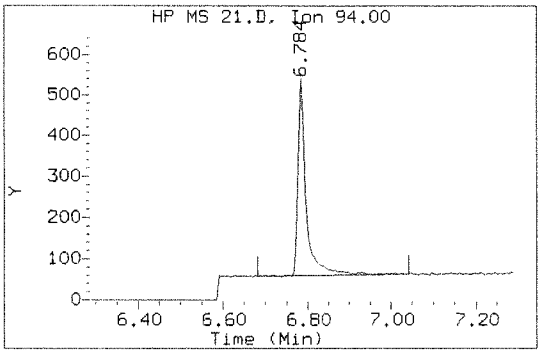
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AREA
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03-Jun-2024
10:31



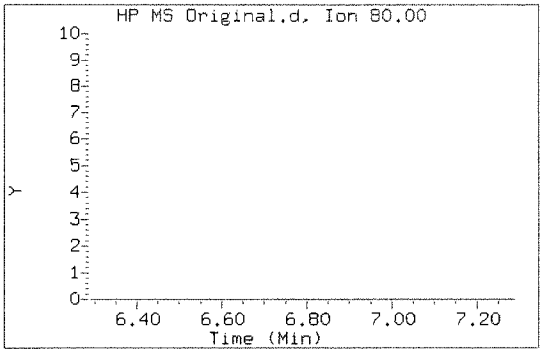
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AREA
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HEIGHT
520
31-May-2024
19:48
ALSHS
Server



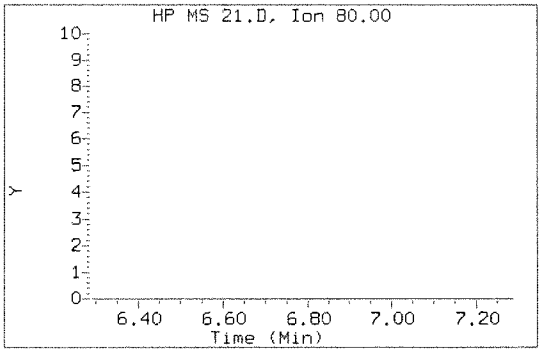
AFTER
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94
AREA
646
HEIGHT
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03-Jun-2024
10:31



BEFORE
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80
AREA
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HEIGHT
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31-May-2024
19:48
ALSHS
Server



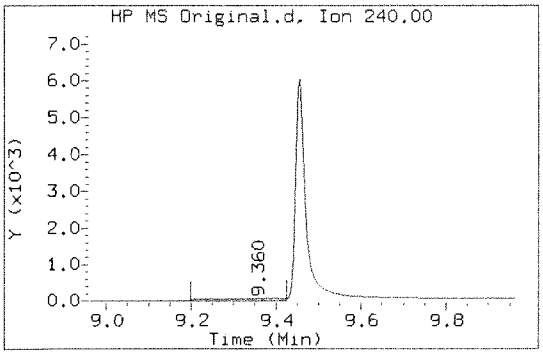
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03-Jun-2024
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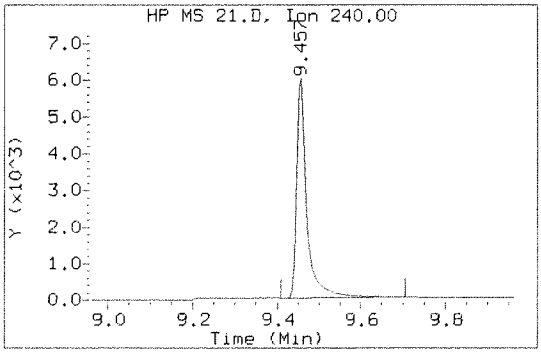
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
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AREA
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HEIGHT
63
31-May-2024
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ALSHS
Server



AFTER
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10074
HEIGHT
5987
03-Jun-2024
10:31

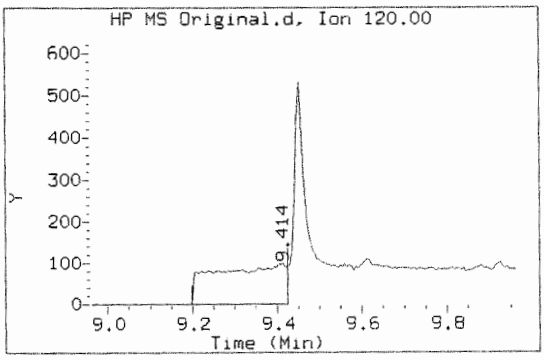


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nj Date : 31-MAY-2024 19:33
nstruID : SV6.i
abSampID : HS24051434-04

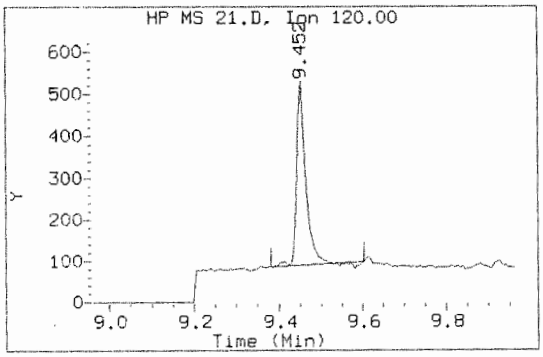
hrysene-d12 (1719-03-5)

Reason Code:

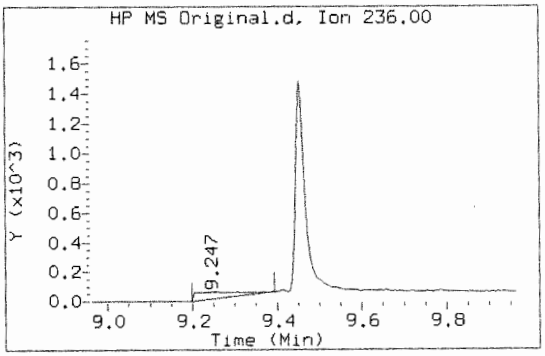
EFORE
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REA
123
EIGHT
8
1-May-2024
9:48
LSHS
Server



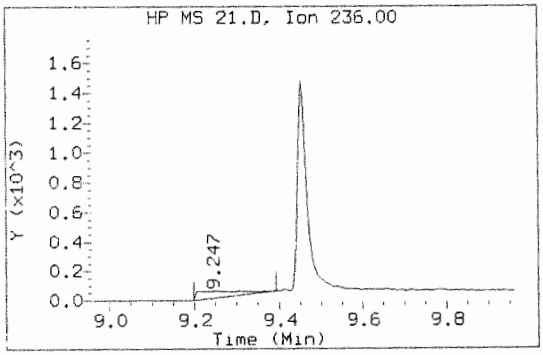
AFTER
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AREA
634
HEIGHT
441
03-Jun-2024
10:31



BEFORE
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AREA
329
HEIGHT
47
31-May-2024
19:48
ALSHS
Server



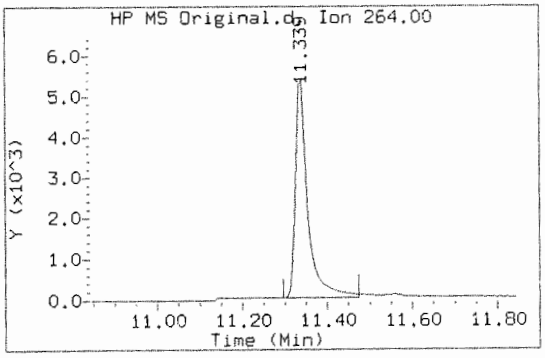
AFTER
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236
AREA
329
HEIGHT
47
03-Jun-2024
10:31



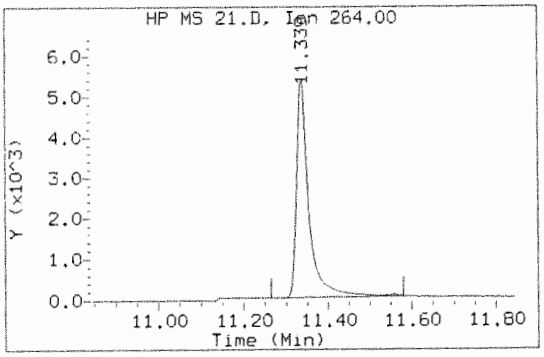
Perylene-d12 (1520-96-3)

Reason Code:

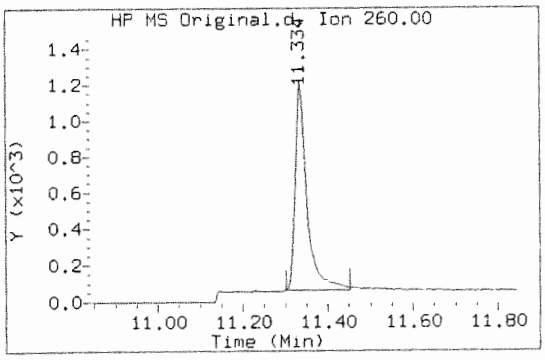
BEFORE
MASS
264
AREA
10779
HEIGHT
5341
31-May-2024
19:48
ALSHS
Server



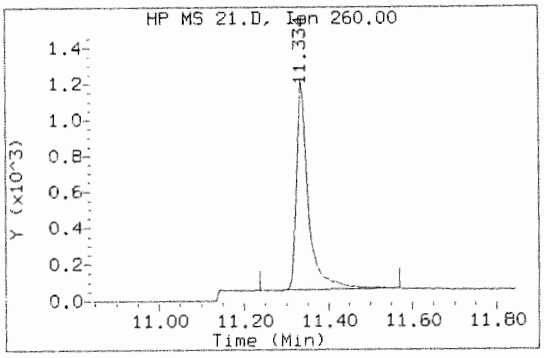
AFTER
MASS
264
AREA
10810
HEIGHT
5331
03-Jun-2024
10:31



BEFORE
MASS
260
AREA
2192
HEIGHT
1156
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
260
AREA
2217
HEIGHT
1157
03-Jun-2024
10:31

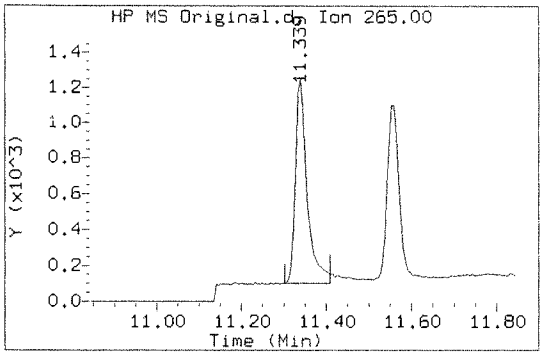


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

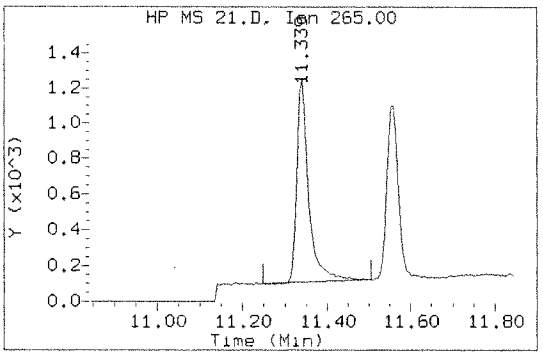
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
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265
AREA
2193
HEIGHT
1149
31-May-2024
19:48
ALSHS
Server



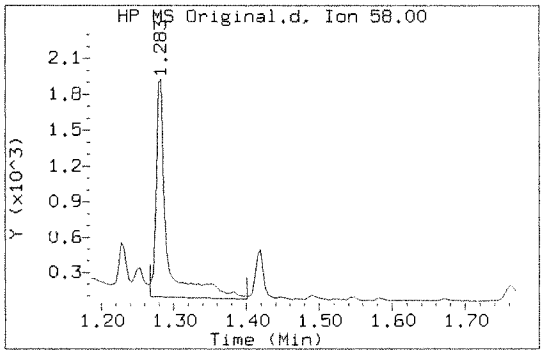
AFTER
MASS
265
AREA
2173
HEIGHT
1139
03-Jun-2024
10:31



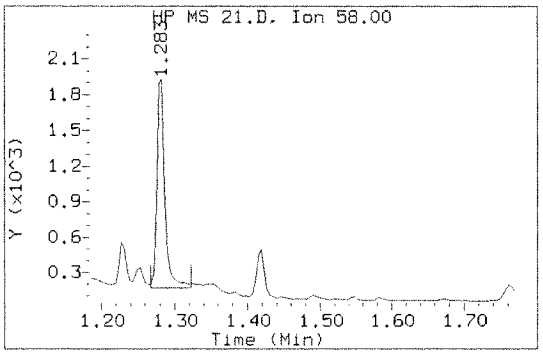
1,4-Dioxane ()

Reason Code:

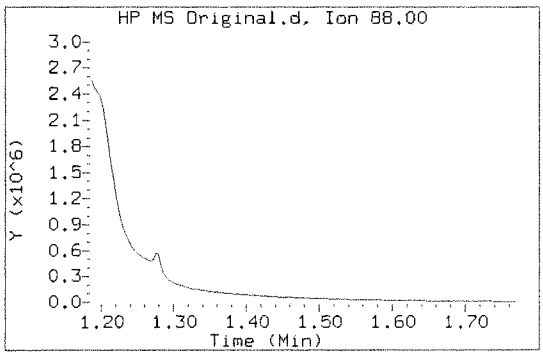
BEFORE
MASS
58
AREA
1990
HEIGHT
1836
31-May-2024
19:48
ALSHS
Server



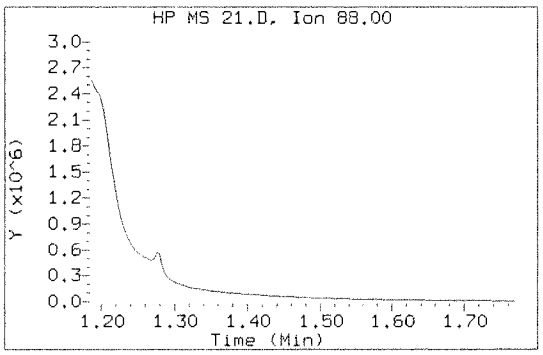
AFTER
MASS
58
AREA
1338
HEIGHT
1758
03-Jun-2024
10:31



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
19:48
ALSHS
Server



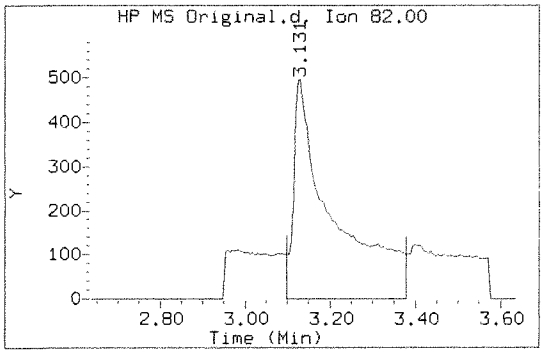
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
10:31



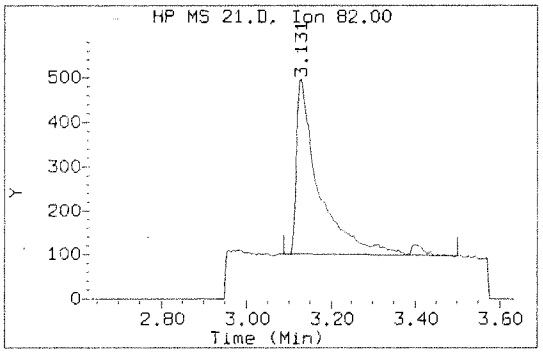
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
3161
HEIGHT
496
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
82
AREA
1499
HEIGHT
394
03-Jun-2024
10:31

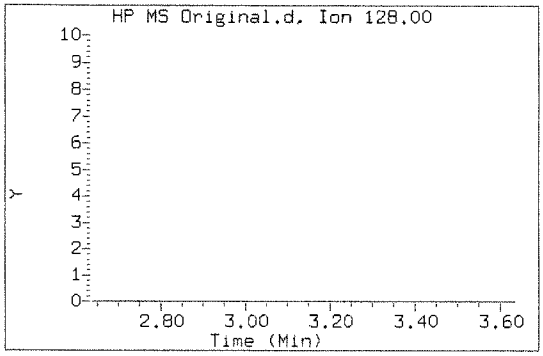


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

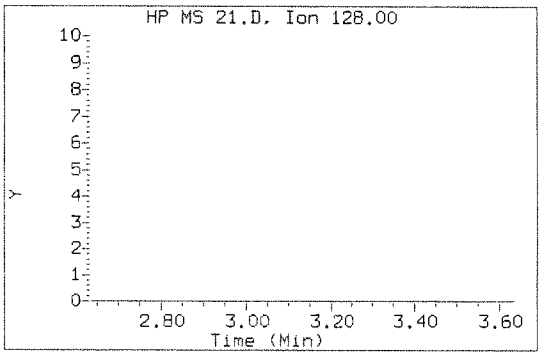
Nitrobenzene-d5 (4165-60-0)

Reason Code:

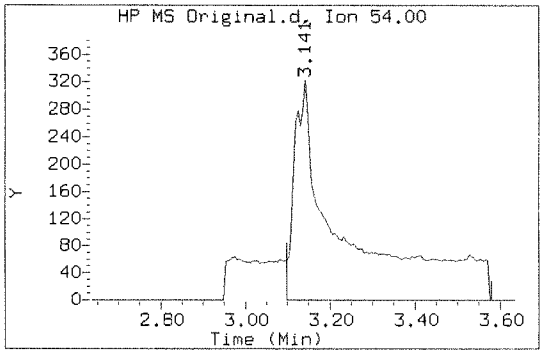
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:48
ALSHS
Server



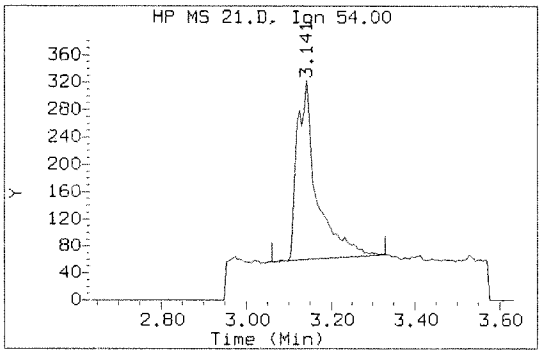
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:31



BEFORE
MASS
54
AREA
2617
HEIGHT
323
31-May-2024
19:48
ALSHS
Server



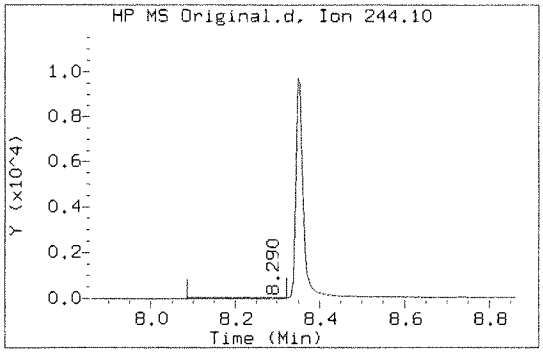
AFTER
MASS
54
AREA
851
HEIGHT
263
03-Jun-2024
10:31



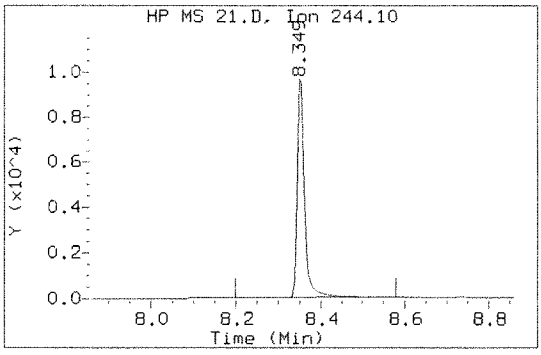
4-Terphenyl-d14 (1718-51-0)

Reason Code:

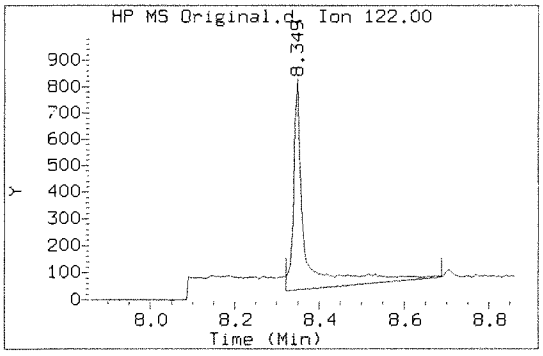
BEFORE
MASS
244.1
AREA
794
HEIGHT
59
31-May-2024
19:48
ALSHS
Server



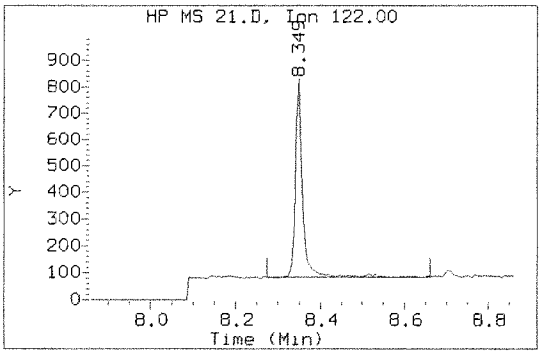
AFTER
MASS
244.1
AREA
11392
HEIGHT
9649
03-Jun-2024
10:31



BEFORE
MASS
122
AREA
1458
HEIGHT
793
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
122
AREA
882
HEIGHT
746
03-Jun-2024
10:31



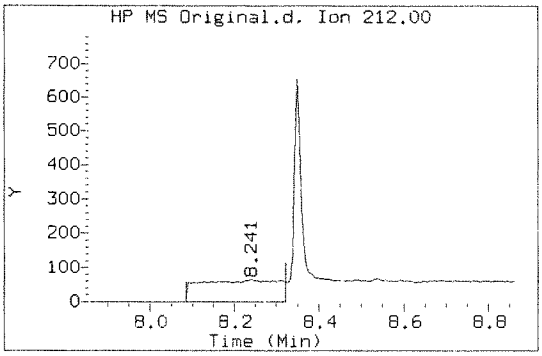
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

4-Terphenyl-d14 (1718-51-0)

Reason Code:

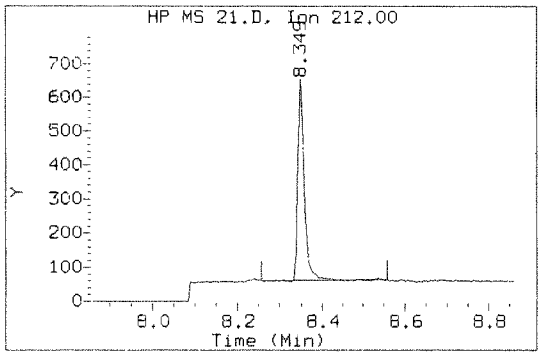
BEFORE

MASS
212
AREA
837
HEIGHT
66
31-May-2024
19:48
ALSHS
Server



AFTER

MASS
212
AREA
617
HEIGHT
593
03-Jun-2024
10:31

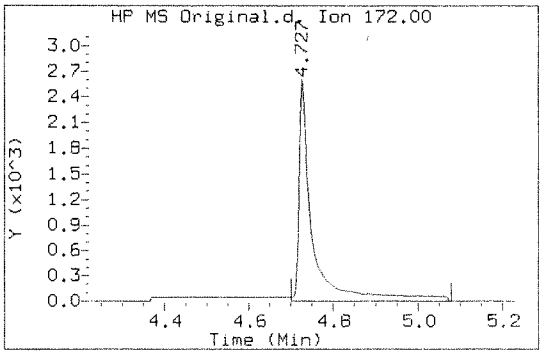


2-Fluorobiphenyl (321-60-8)

Reason Code:

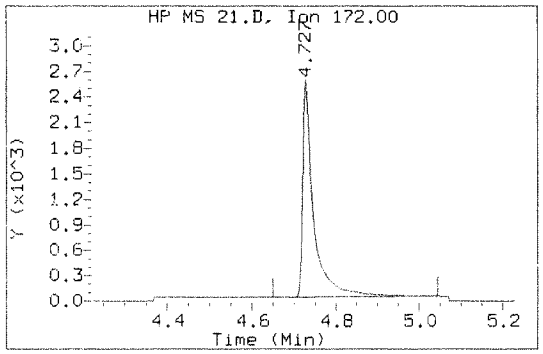
BEFORE

MASS
172
AREA
5855
HEIGHT
2605
31-May-2024
19:48
ALSHS
Server



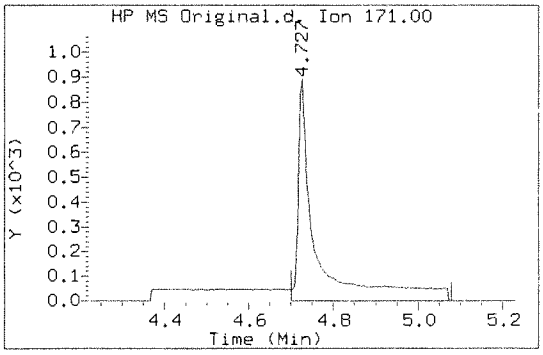
AFTER

MASS
172
AREA
4645
HEIGHT
2556
03-Jun-2024
10:31



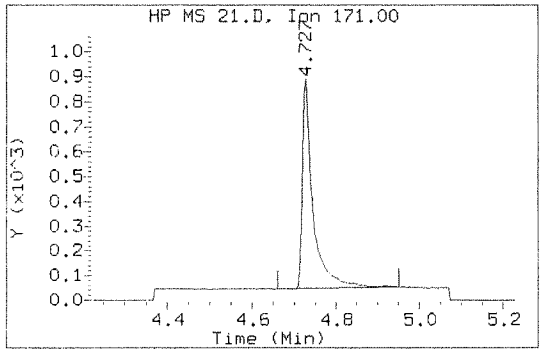
BEFORE

MASS
171
AREA
2642
HEIGHT
892
31-May-2024
19:48
ALSHS
Server



AFTER

MASS
171
AREA
1498
HEIGHT
843
03-Jun-2024
10:31



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D
Lab Smp Id: HS24051434-05
Inj Date : 31-MAY-2024 19:50
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
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

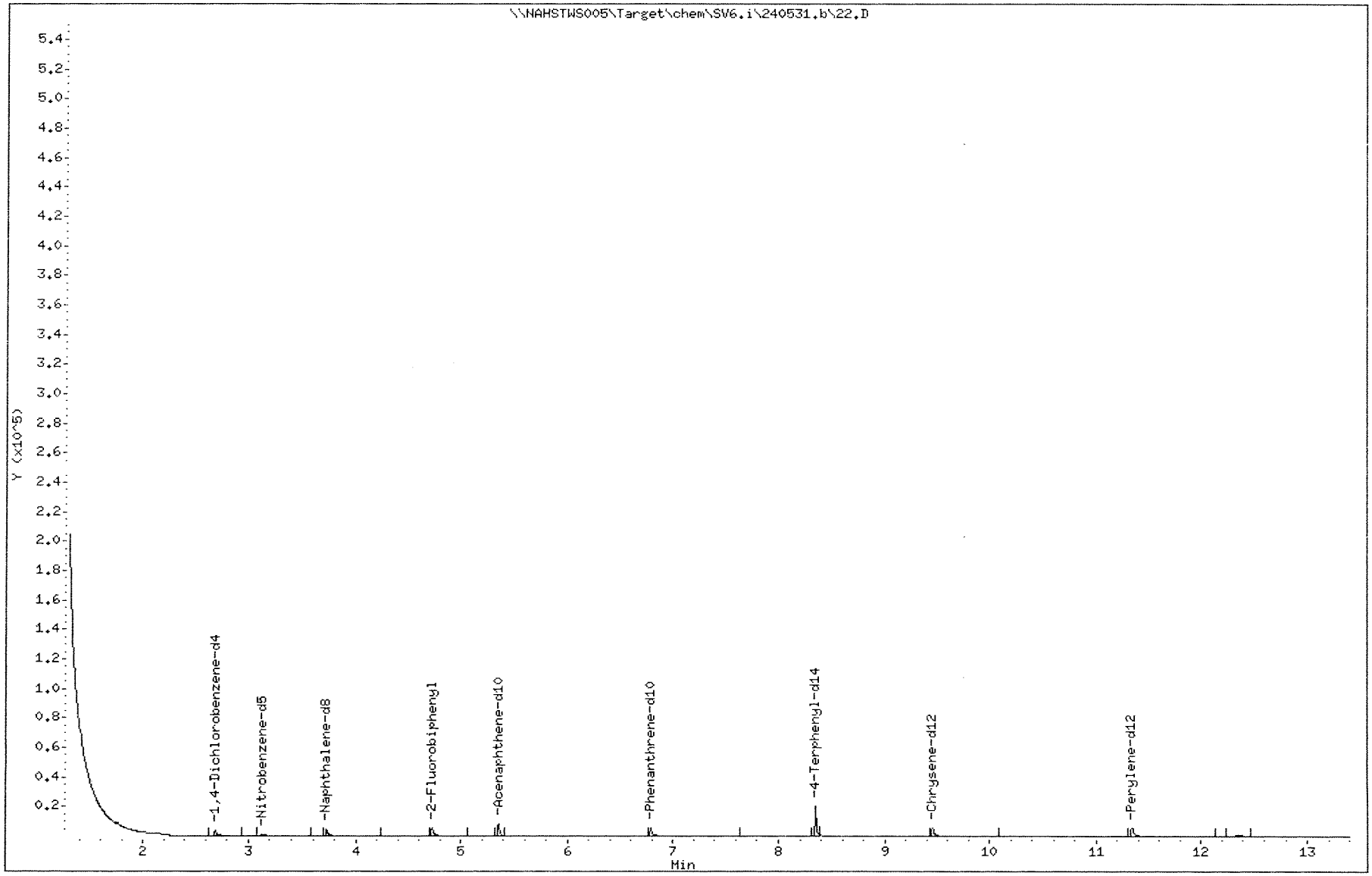
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2268	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7376	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	2448	0.11055	0.1106	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4841	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	6922	0.09354	0.09354	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	8634	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	8377	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	18535	0.10861	0.1086	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	9069	0.10000		
1 1,4-Dioxane	58	1.268	1.267	(0.471)	329	0.06772	0.06772	(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\240531.b\22.D
Date : 31-MAY-2024 19:50
Client ID:
Sample Info: HS24051434-05
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\240531.b\22.D

Page 3

Date : 31-MAY-2024 19:50

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-05

Purge Volume: 1000.0

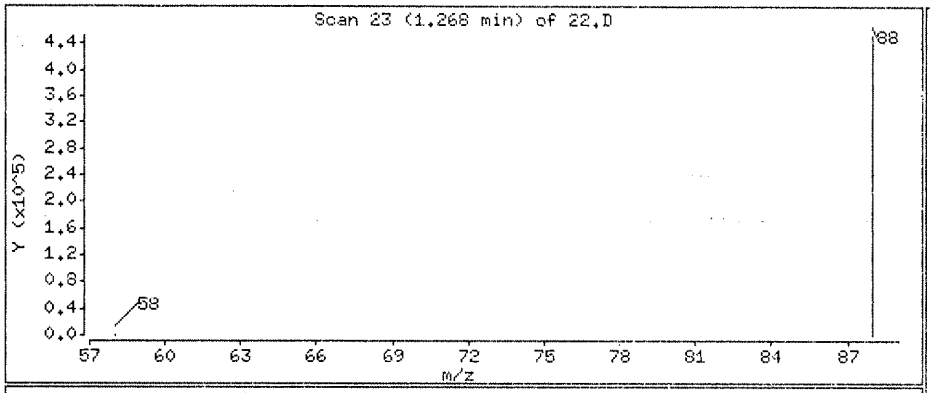
Operator: LG

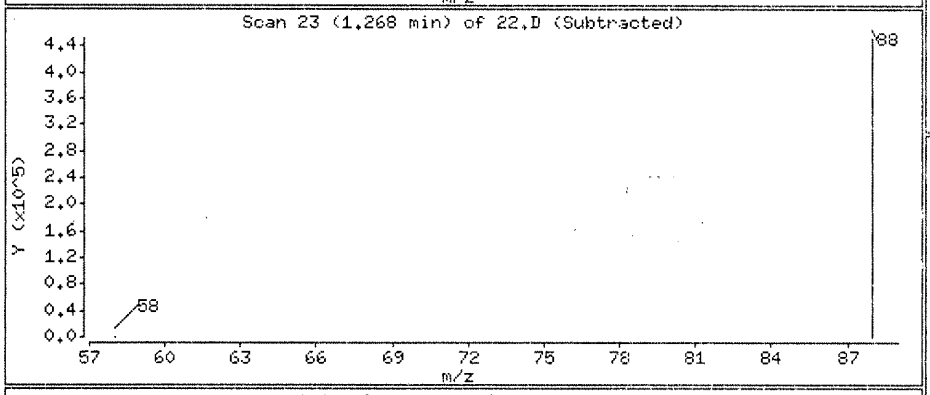
Column phase: RTX-5SIL MS

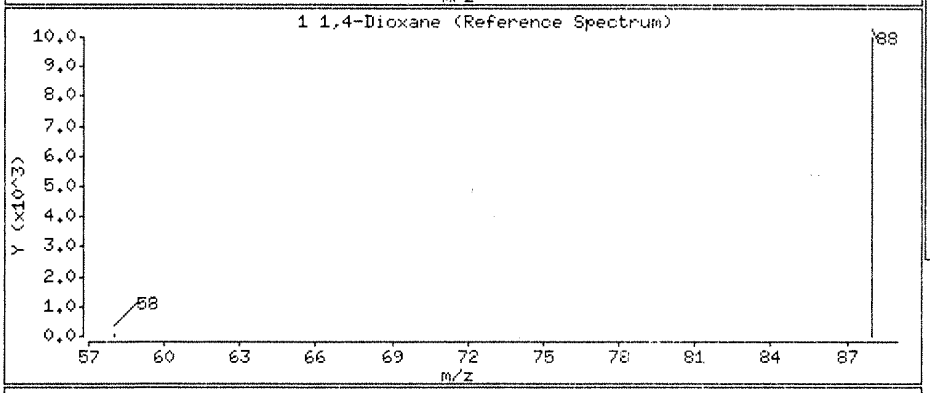
Column diameter: 0.28

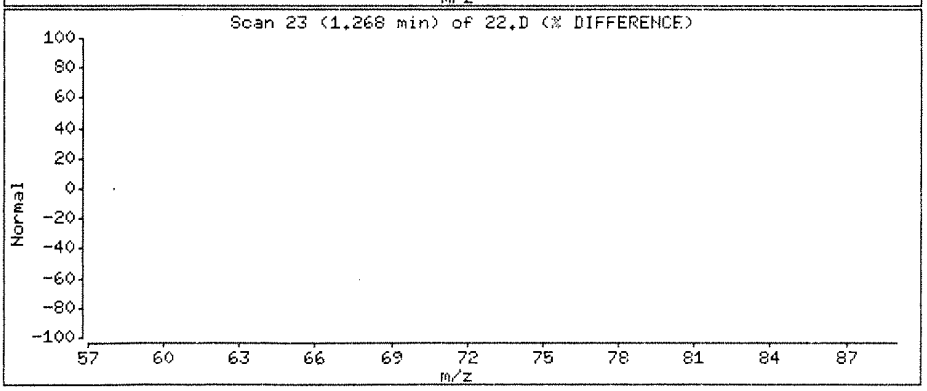
1 1,4-Dioxane

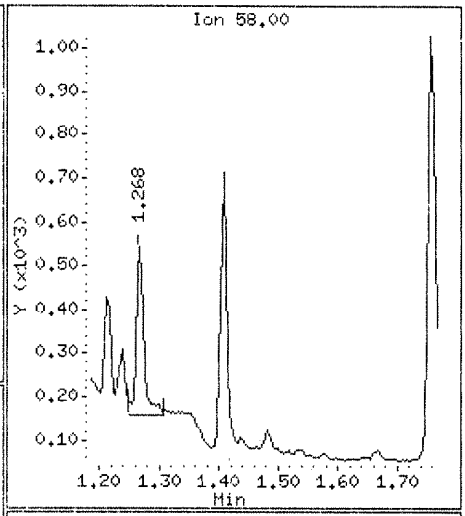
Concentration: 0.06772 ug/L

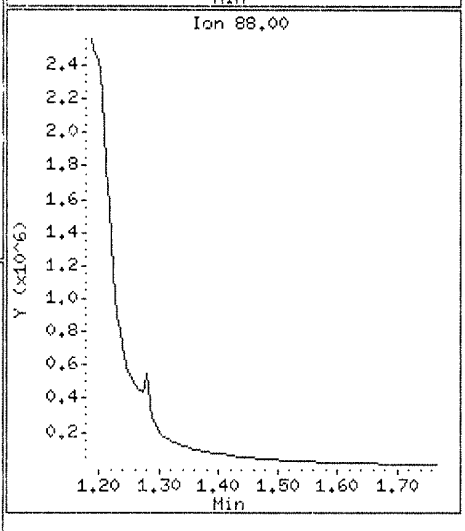












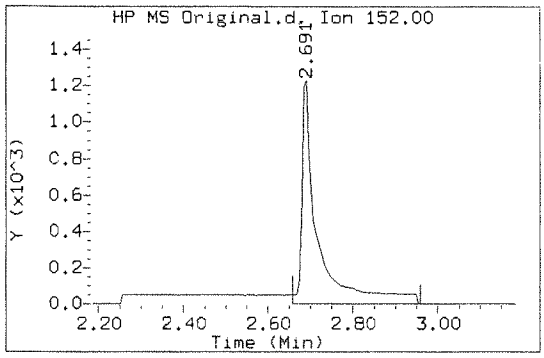
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D
Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

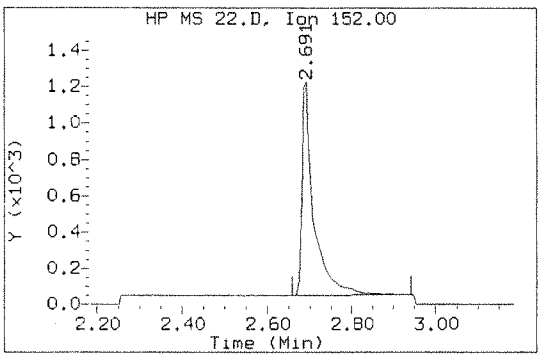
BEFORE

MASS
152
AREA
3190
HEIGHT
1228
31-May-2024
20:04
ALSHS
Server



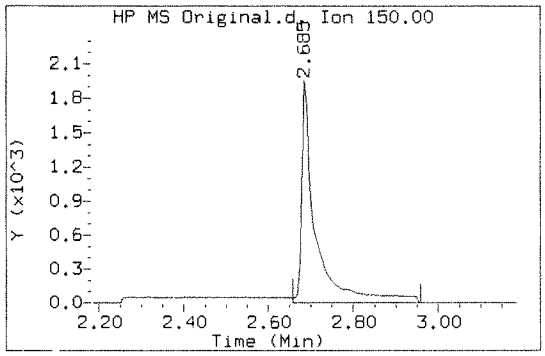
AFTER

MASS
152
AREA
2268
HEIGHT
1178
03-Jun-2024
11:23



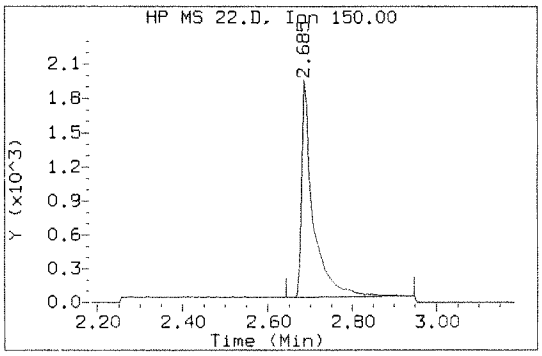
BEFORE

MASS
150
AREA
4521
HEIGHT
1957
31-May-2024
20:04
ALSHS
Server



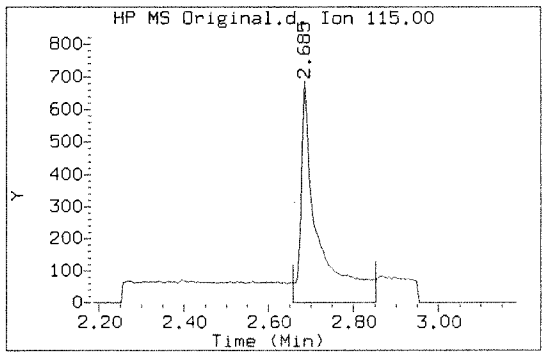
AFTER

MASS
150
AREA
3595
HEIGHT
1908
03-Jun-2024
11:23



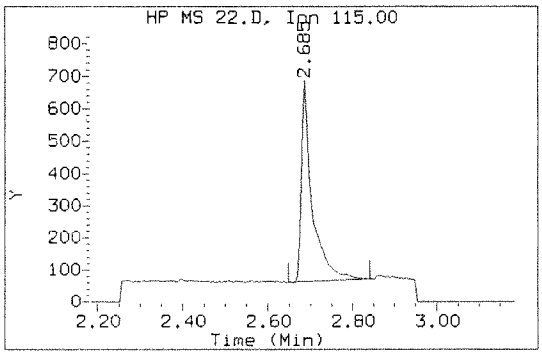
BEFORE

MASS
115
AREA
1896
HEIGHT
687
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
115
AREA
1099
HEIGHT
623
03-Jun-2024
11:23

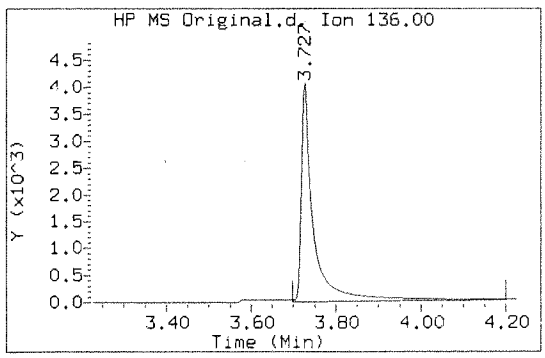


Naphthalene-d8 (1146-65-2)

Reason Code:

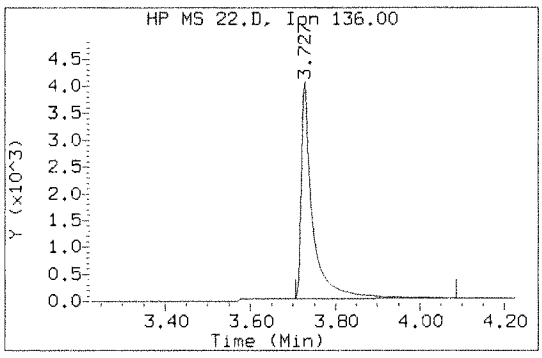
BEFORE

MASS
136
AREA
8243
HEIGHT
4067
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
136
AREA
7376
HEIGHT
4027
03-Jun-2024
11:23



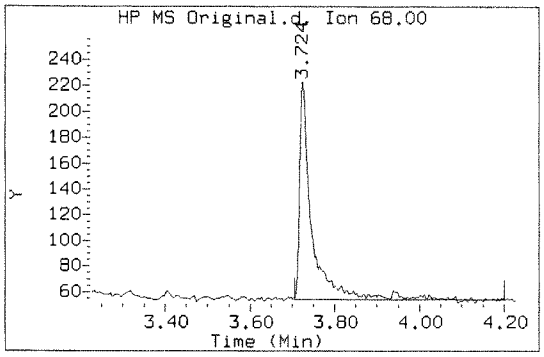
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Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

Naphthalene-d8 (1146-65-2)

Reason Code:

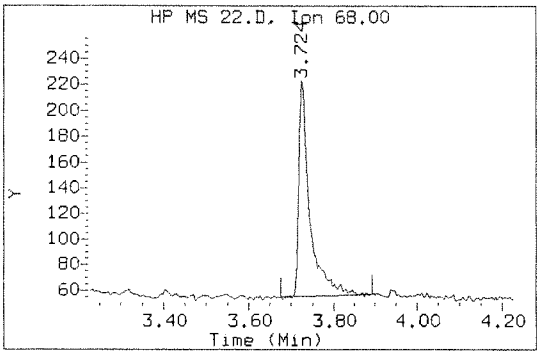
BEFORE

MASS
68
AREA
349
HEIGHT
169
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
68
AREA
302
HEIGHT
167
03-Jun-2024
11:23

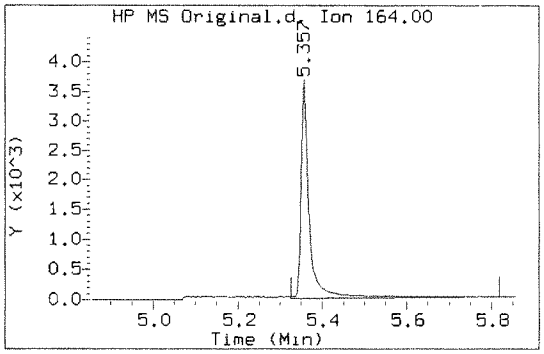


Acenaphthene-d10 (15067-26-2)

Reason Code:

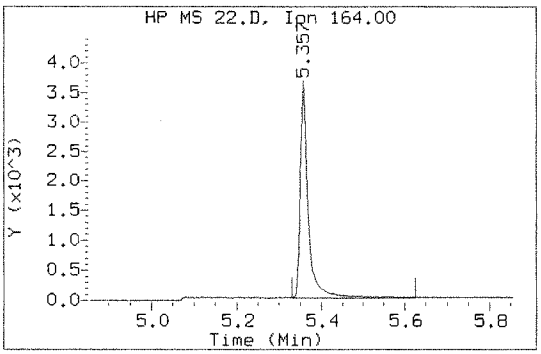
BEFORE

MASS
164
AREA
5220
HEIGHT
3688
31-May-2024
20:04
ALSHS
Server



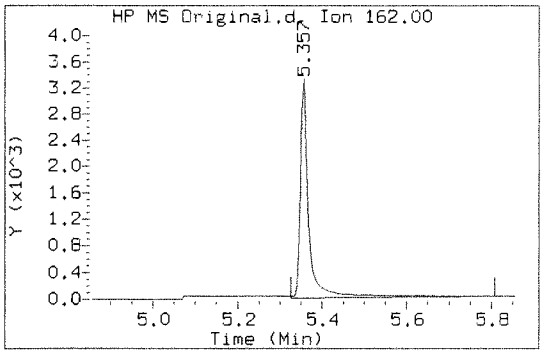
AFTER

MASS
164
AREA
4841
HEIGHT
3667
03-Jun-2024
11:23



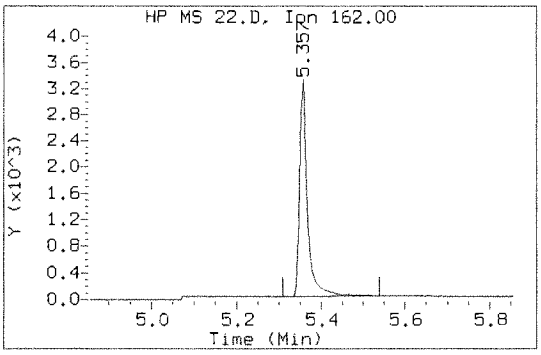
BEFORE

MASS
162
AREA
4817
HEIGHT
3324
31-May-2024
20:04
ALSHS
Server



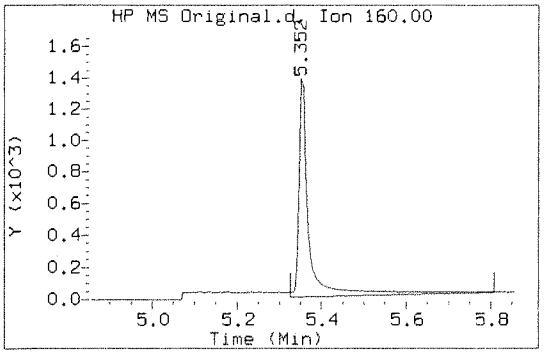
AFTER

MASS
162
AREA
4170
HEIGHT
3291
03-Jun-2024
11:23



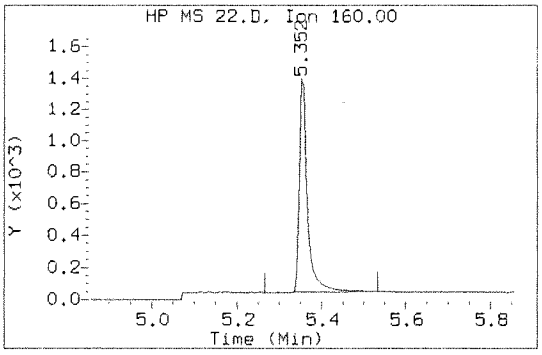
BEFORE

MASS
160
AREA
2315
HEIGHT
1381
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
160
AREA
1784
HEIGHT
1351
03-Jun-2024
11:23

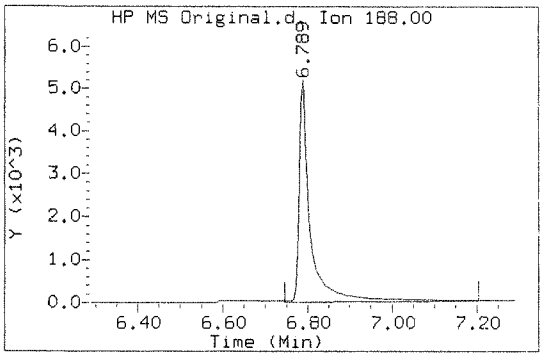


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LabSampID : HS24051434-05

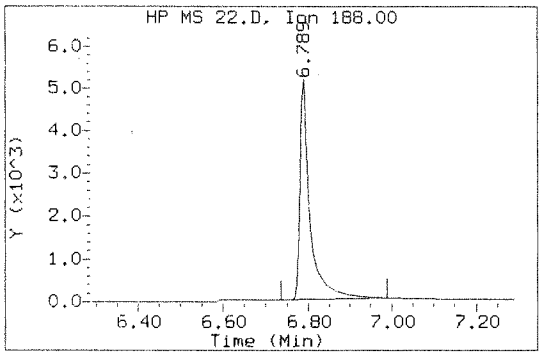
Phenanthrene-d10 (1517-22-2)

Reason Code:

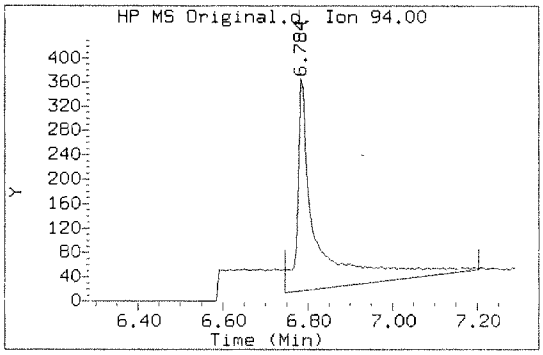
BEFORE
MASS
188
AREA
9704
HEIGHT
5196
31-May-2024
20:04
ALSHS
Server



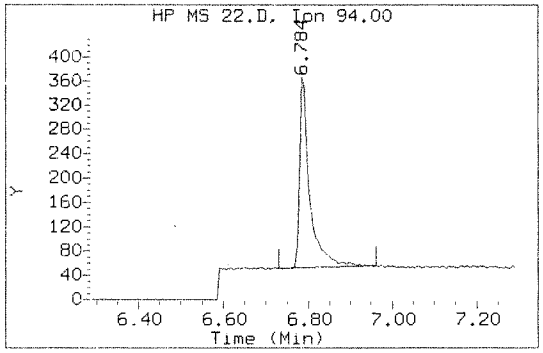
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188
AREA
8634
HEIGHT
5158
03-Jun-2024
11:23



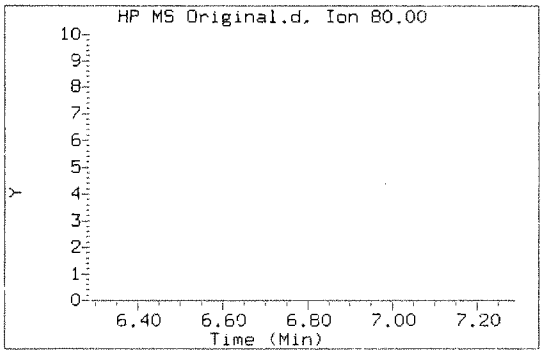
BEFORE
MASS
94
AREA
1103
HEIGHT
348
31-May-2024
20:04
ALSHS
Server



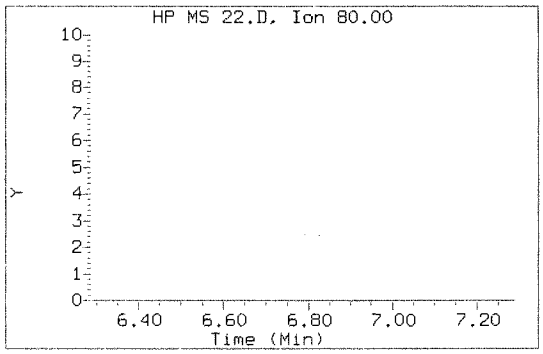
AFTER
MASS
94
AREA
518
HEIGHT
313
03-Jun-2024
11:23



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



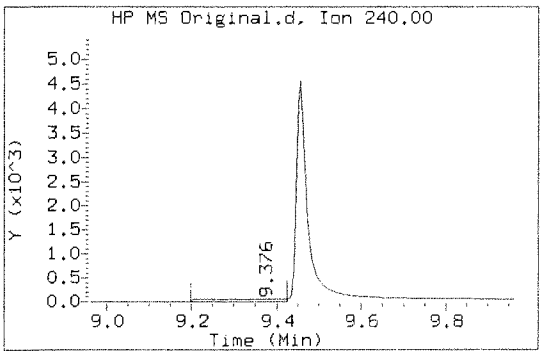
AFTER
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AREA
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HEIGHT
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03-Jun-2024
11:23



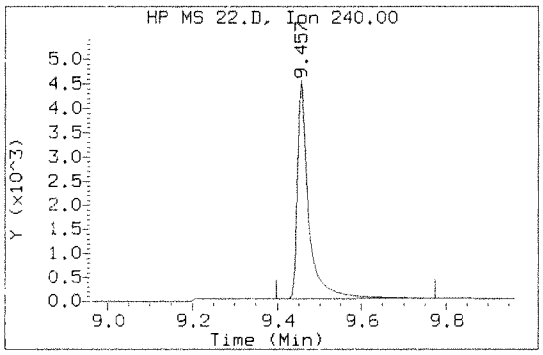
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
666
HEIGHT
52
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
240
AREA
8377
HEIGHT
4513
03-Jun-2024
11:23

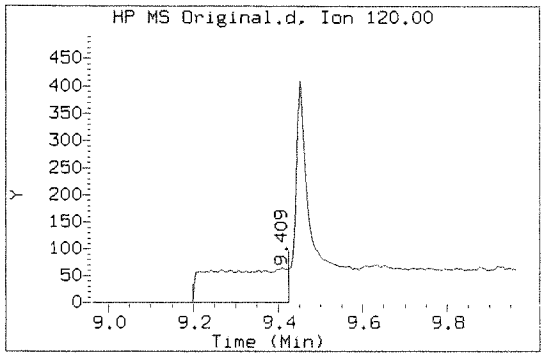


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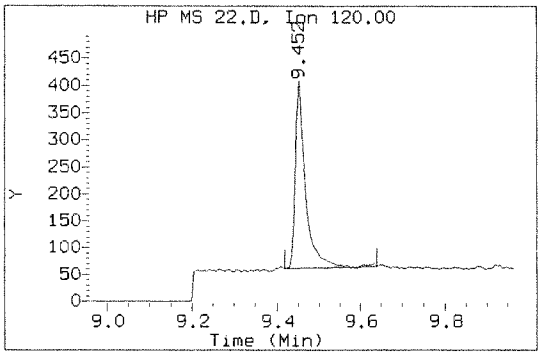
Chrysene-d12 (1719-03-5)

Reason Code:

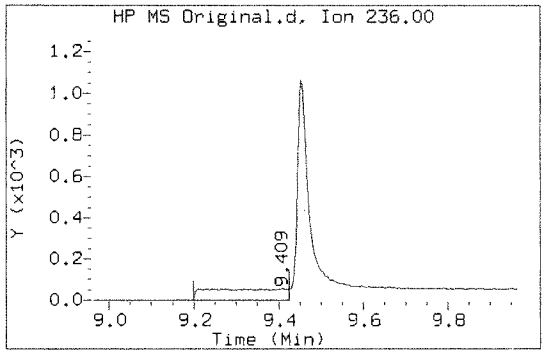
BEFORE
MASS
120
AREA
790
HEIGHT
65
31-May-2024
20:04
ALSHS
Server



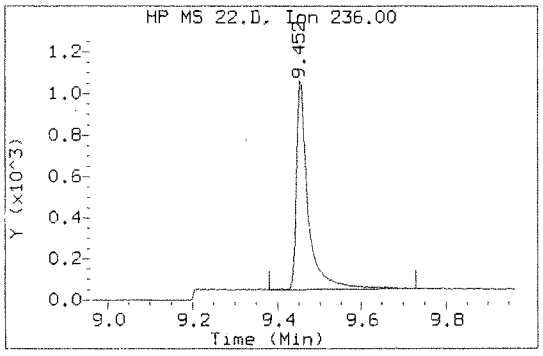
AFTER
MASS
120
AREA
580
HEIGHT
346
03-Jun-2024
11:23



BEFORE
MASS
236
AREA
689
HEIGHT
54
31-May-2024
20:04
ALSHS
Server



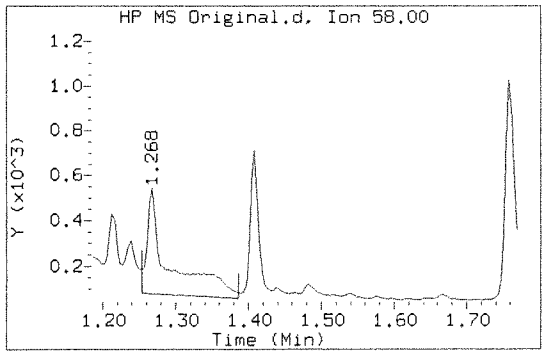
AFTER
MASS
236
AREA
1936
HEIGHT
1013
03-Jun-2024
11:23



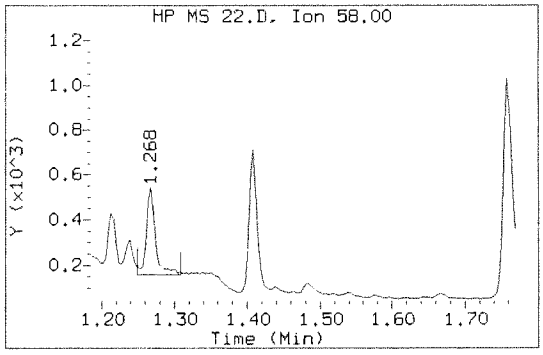
1,4-Dioxane ()

Reason Code:

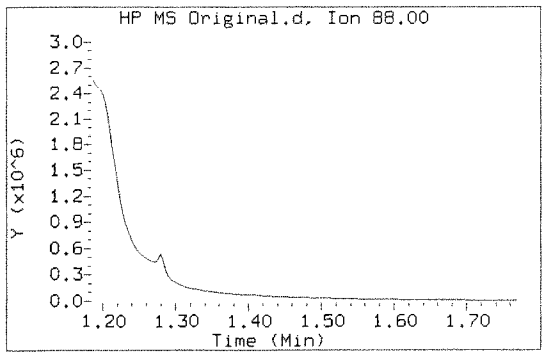
BEFORE
MASS
58
AREA
967
HEIGHT
464
31-May-2024
20:04
ALSHS
Server



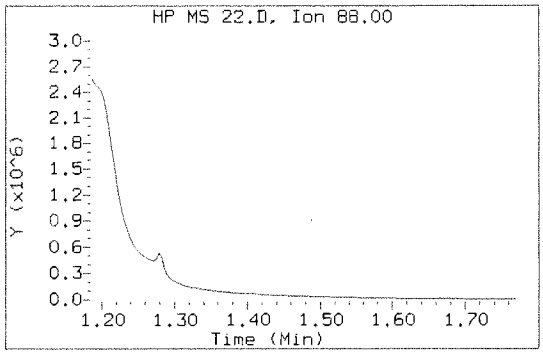
AFTER
MASS
58
AREA
329
HEIGHT
386
03-Jun-2024
11:23



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
11:23

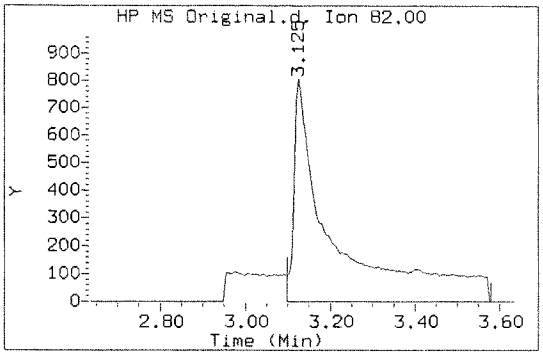


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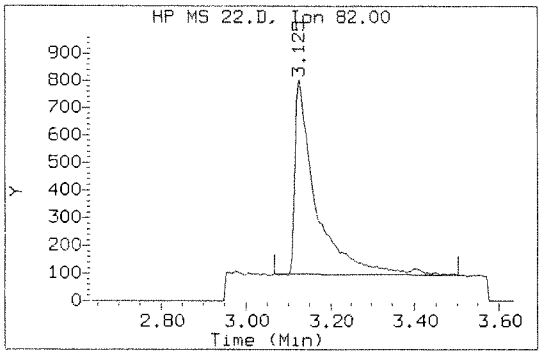
Nitrobenzene-d5 (4165-60-0)

Reason Code:

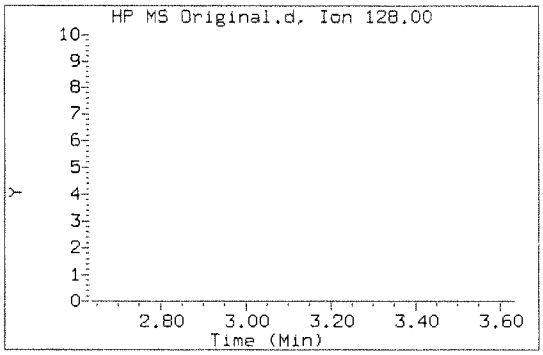
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MASS
82
AREA
5135
HEIGHT
807
31-May-2024
20:04
ALSHS
Server



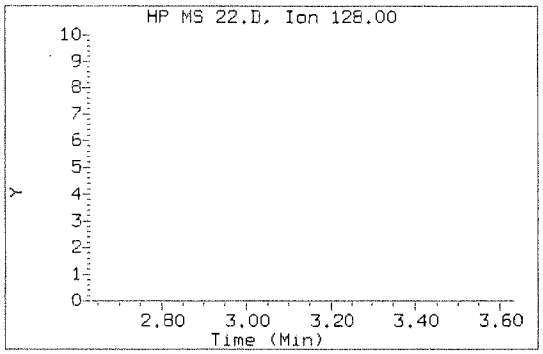
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82
AREA
2448
HEIGHT
710
03-Jun-2024
11:23



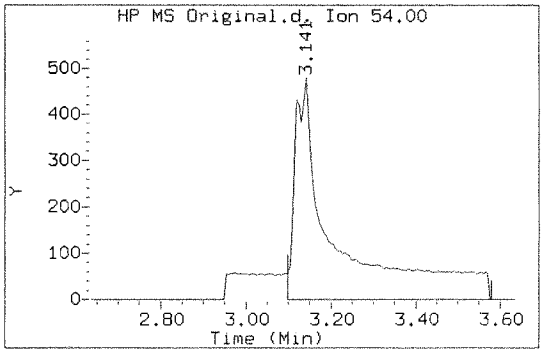
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



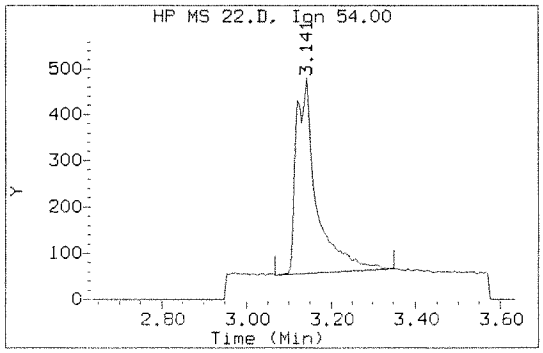
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:23



BEFORE
MASS
54
AREA
3131
HEIGHT
480
31-May-2024
20:04
ALSHS
Server



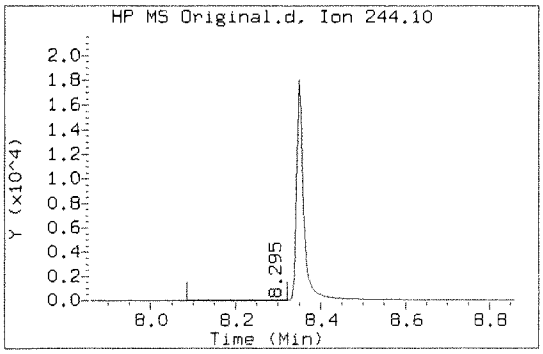
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54
AREA
1413
HEIGHT
423
03-Jun-2024
11:23



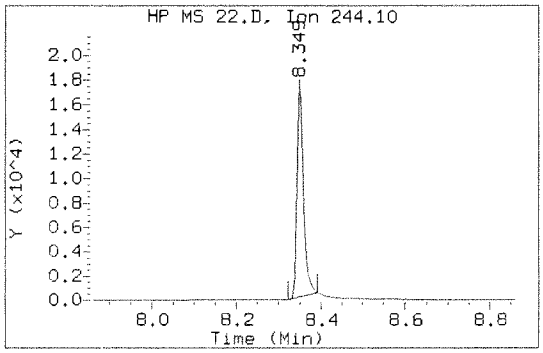
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
660
HEIGHT
48
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
244.1
AREA
18535
HEIGHT
17774
03-Jun-2024
11:23



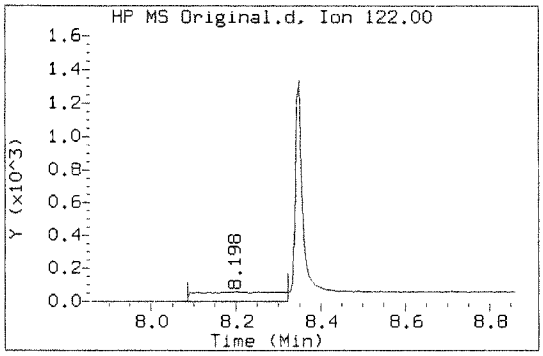
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Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

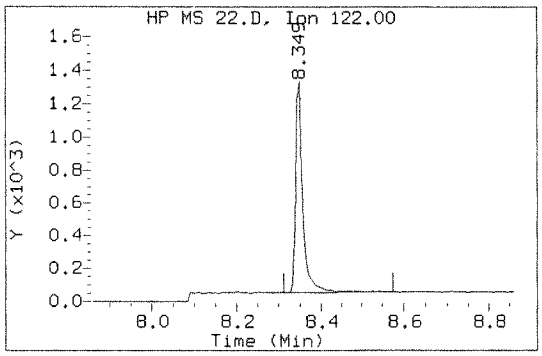
BEFORE

MASS
122
AREA
758
HEIGHT
56
31-May-2024
20:04
ALSHS
Server



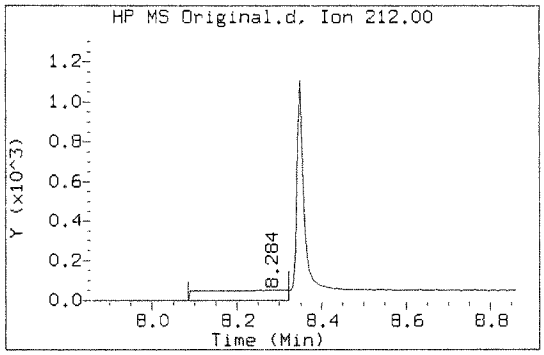
AFTER

MASS
122
AREA
1540
HEIGHT
1280
03-Jun-2024
11:23



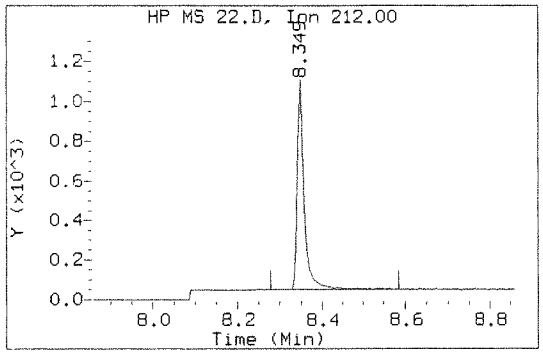
BEFORE

MASS
212
AREA
696
HEIGHT
52
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
212
AREA
1202
HEIGHT
1057
03-Jun-2024
11:23

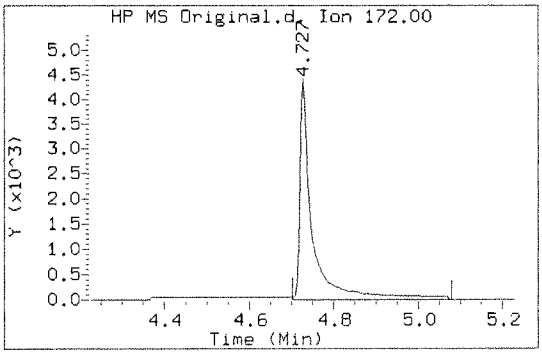


2-Fluorobiphenyl (321-60-8)

Reason Code:

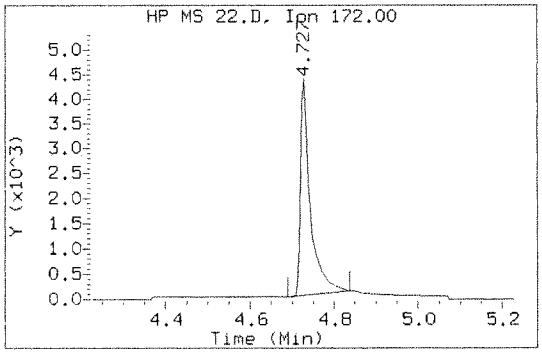
BEFORE

MASS
172
AREA
9171
HEIGHT
4422
31-May-2024
20:04
ALSHS
Server



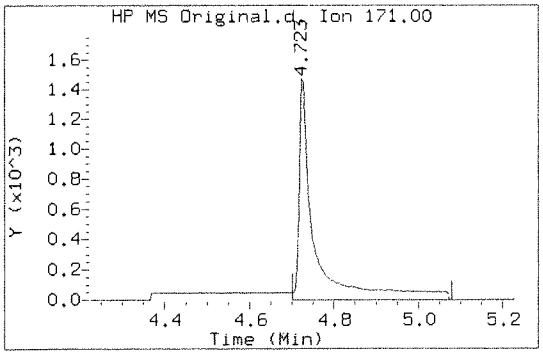
AFTER

MASS
172
AREA
6922
HEIGHT
4344
03-Jun-2024
11:23



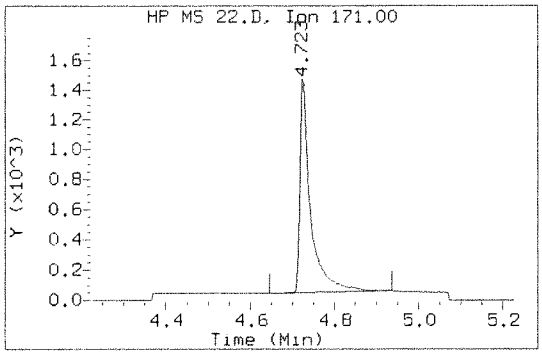
BEFORE

MASS
171
AREA
3751
HEIGHT
1477
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
171
AREA
2498
HEIGHT
1426
03-Jun-2024
11:23



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Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

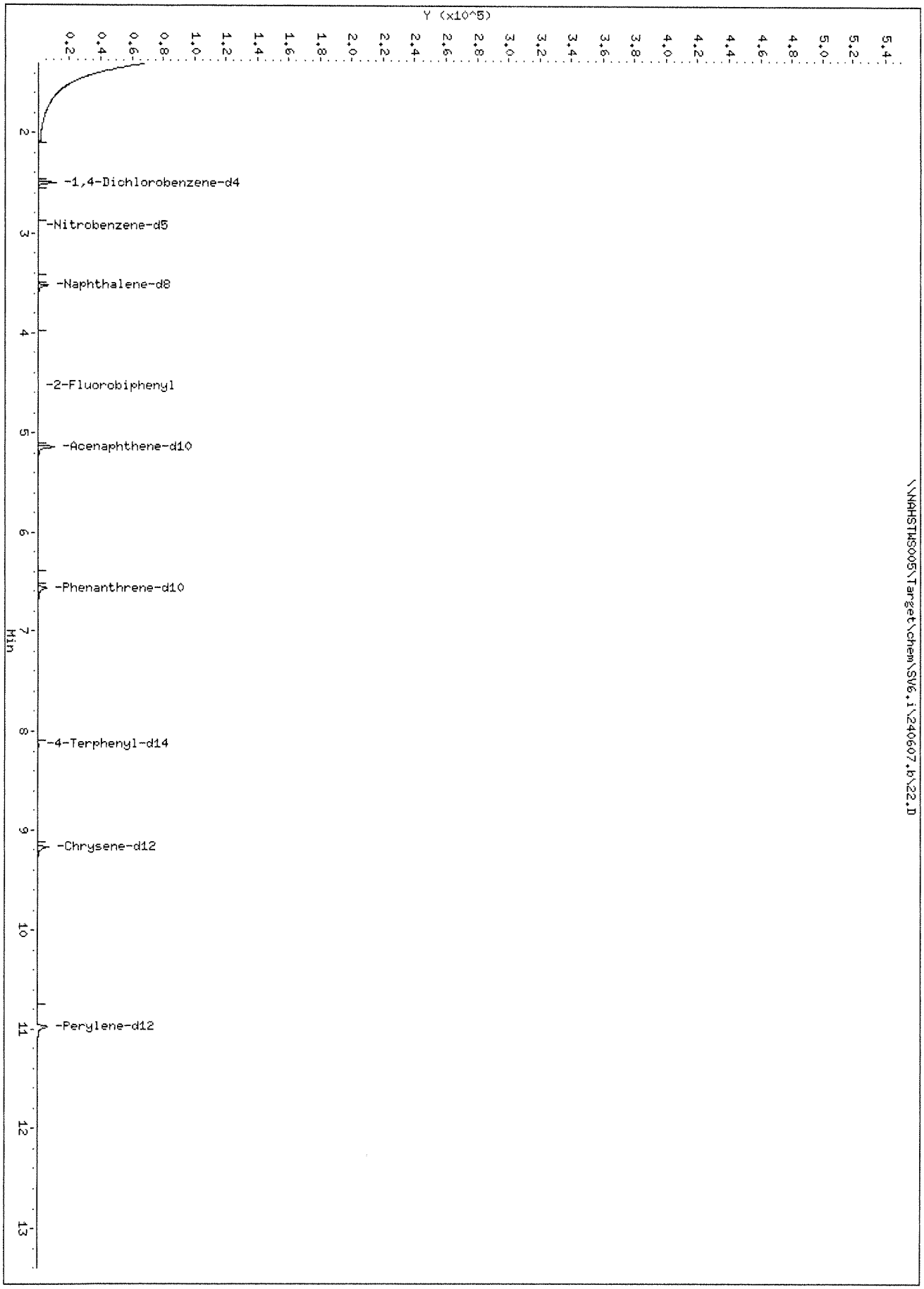
Data file : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Lab Smp Id: HS24051669-01
Inj Date : 07-JUN-2024 20:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: AREA%
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	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

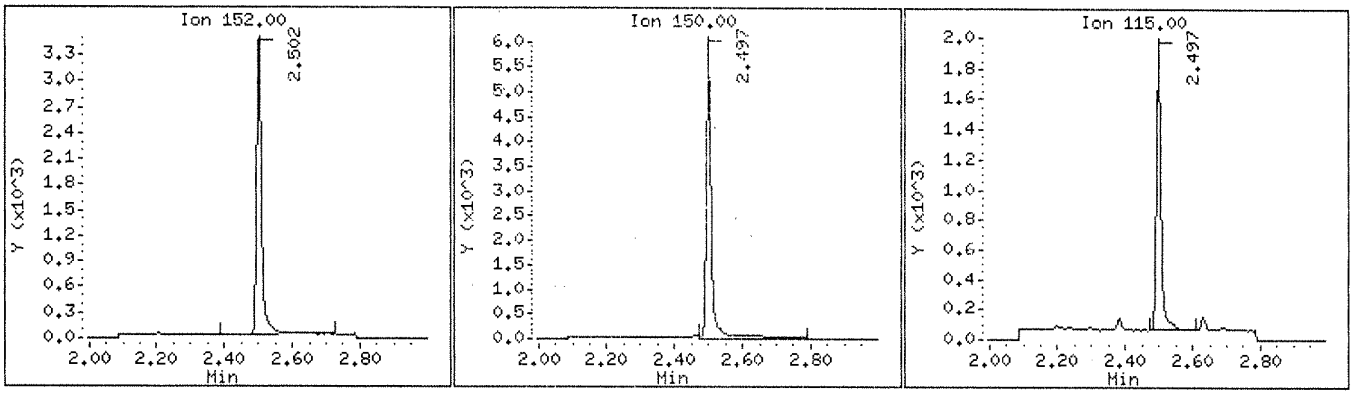
	RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
	1.053	11974372	2175067	0.182	99.41		1	1,4-Dioxane
	2.497	10659	11347	1.065	0.08	*	20	1,4-Dichlorobenzene
	2.921	3214	309	0.096	0.02	$	33	Nitrobenzene-d5
	3.522	11770	6177	0.525	0.09	*	45	Naphthalene-d8
	5.144	16739	10440	0.624	0.13	*	86	Acenaphthene-d10
	6.565	16423	5858	0.357	0.13	*	126	Phenanthrene-d10
	8.130	2317	888	0.383	0.01	$	158	4-Terphenyl-d14
	9.174	16158	6926	0.429	0.13	*	182	Chrysene-d12
		12051653	2217012		100.000			

Total unknown % area = 0.0000

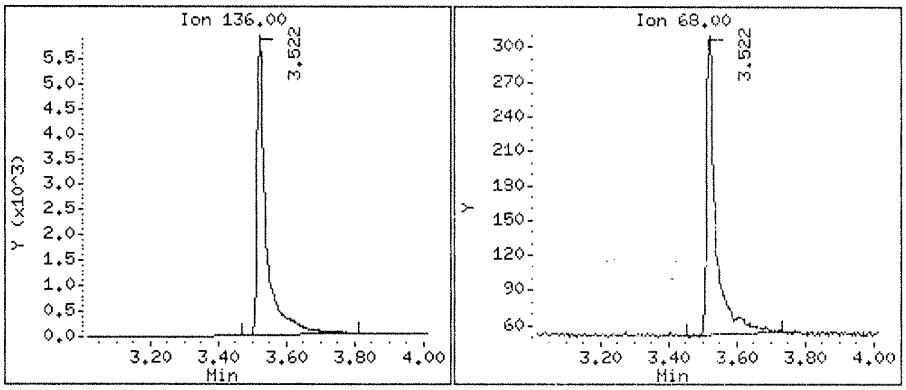

Y (x10^5)
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0.6
0.8
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1.2
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1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
2
3
4
5
6
7
8
9
10
11
12
13
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
\\NAHSTWS005\Target\chem\SW6,i\240607,b\22.D
Data File: \\NAHSTWS005\Target\chem\SW6,i\240607,b\22.D
Page 1

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

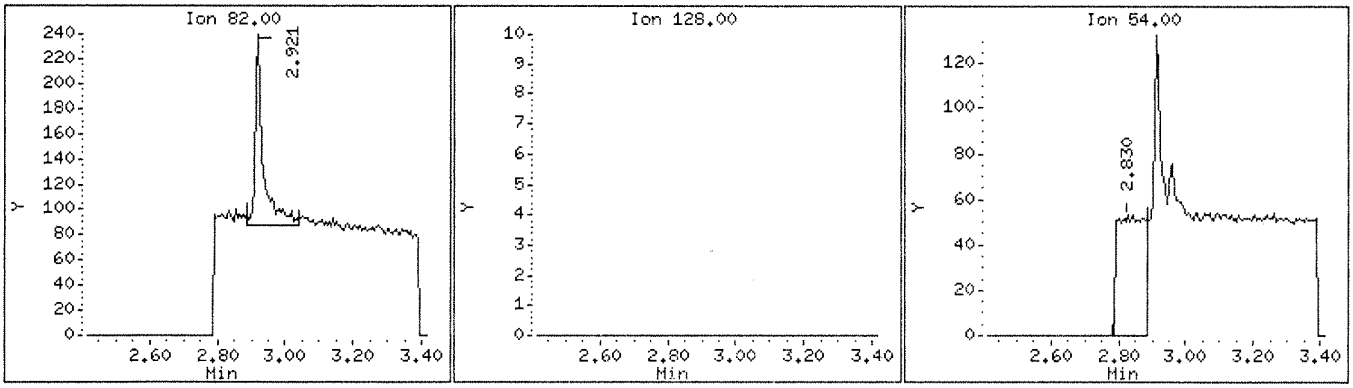
* 20 1,4-Dichlorobenzene-d4



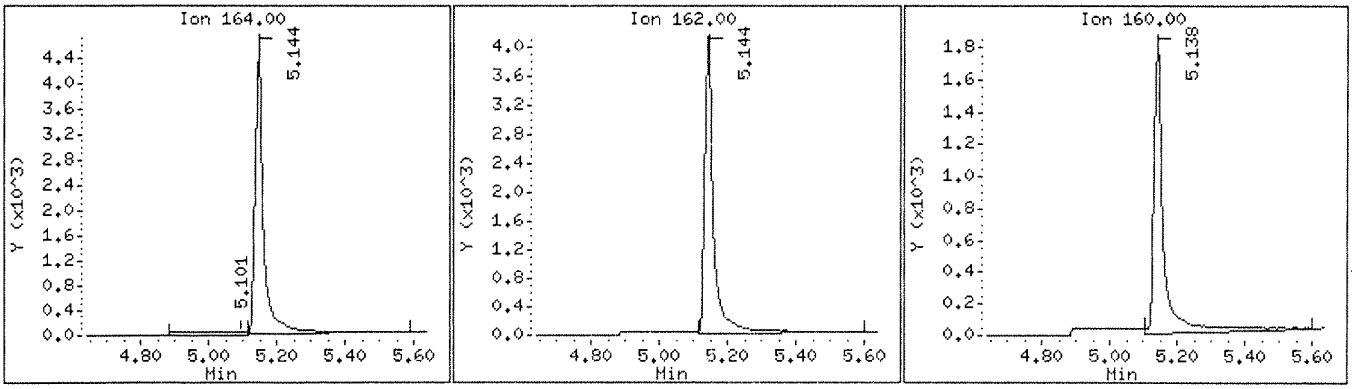
* 45 Naphthalene-d8



\$ 33 Nitrobenzene-d5

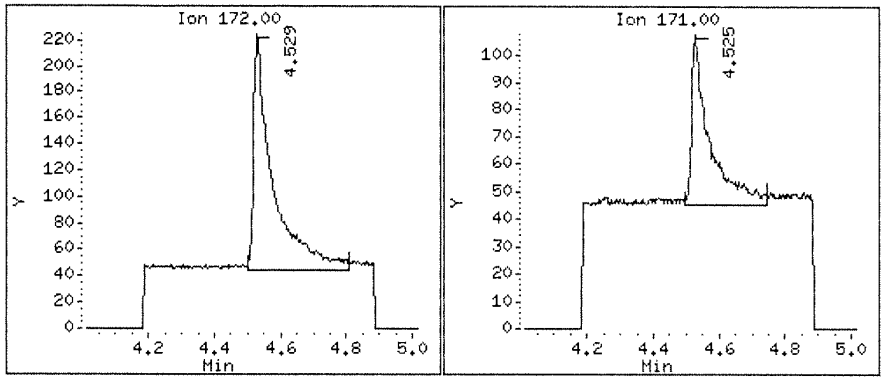


* 86 Acenaphthene-d10

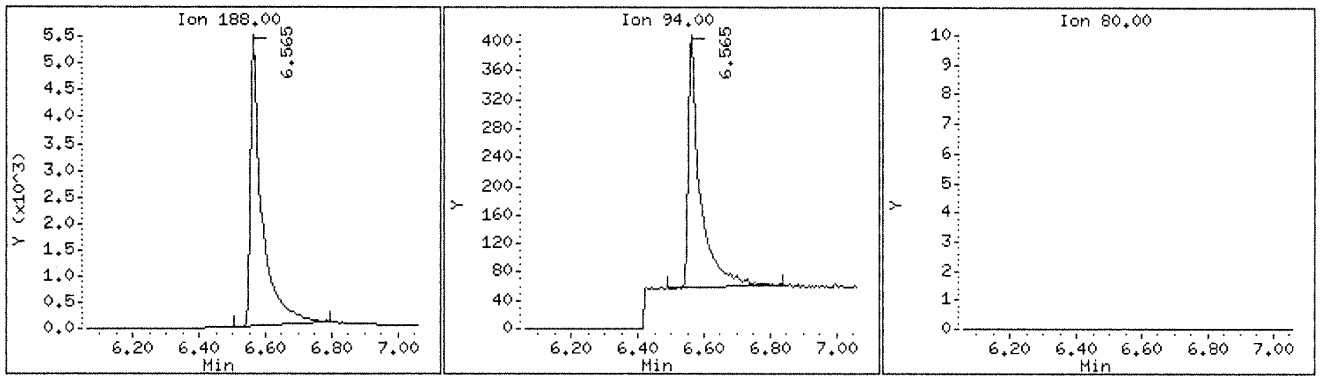


Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

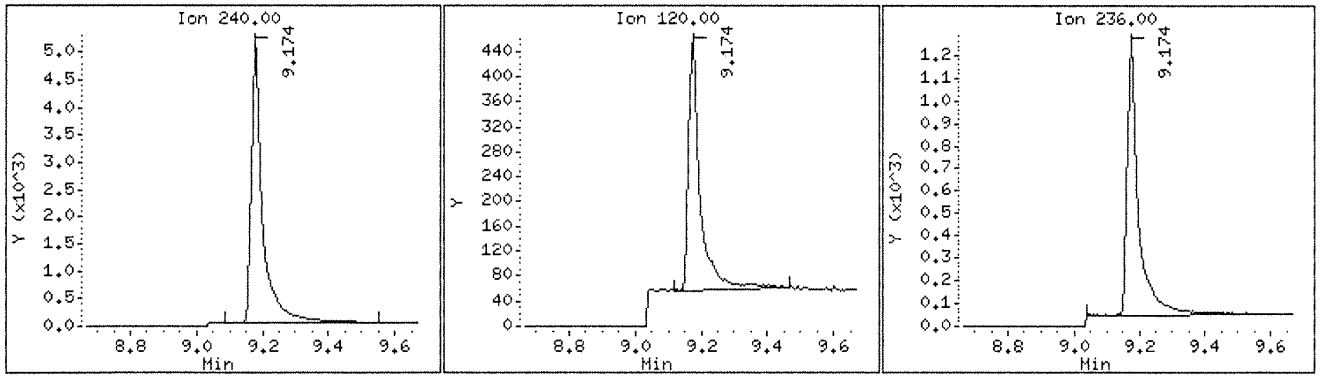
$ 69 2-Fluorobiphenyl



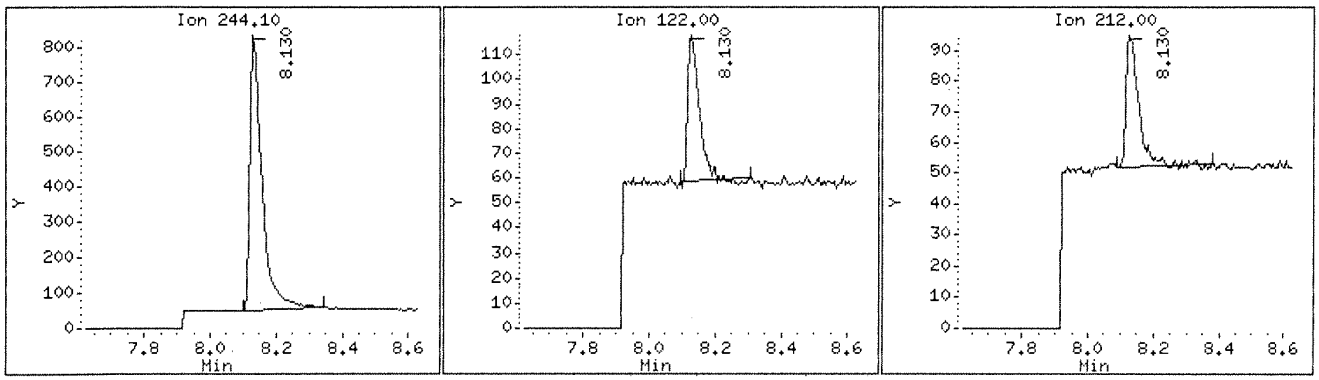
* 126 Phenanthrene-d10



* 182 Chrysene-d12

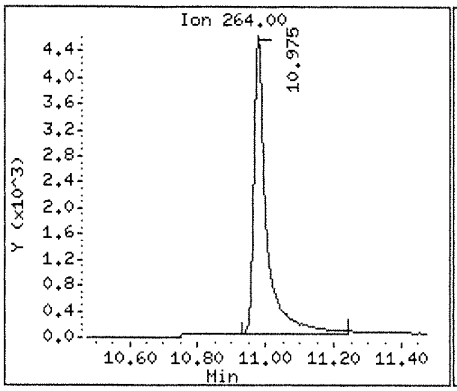


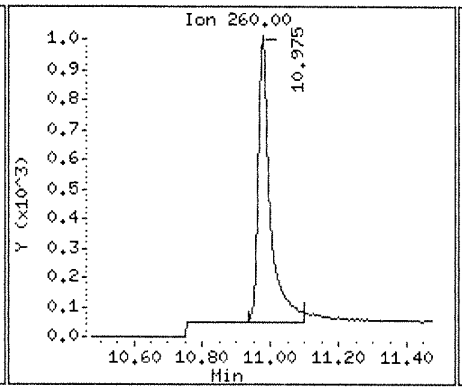
$ 158 4-Terphenyl-d14

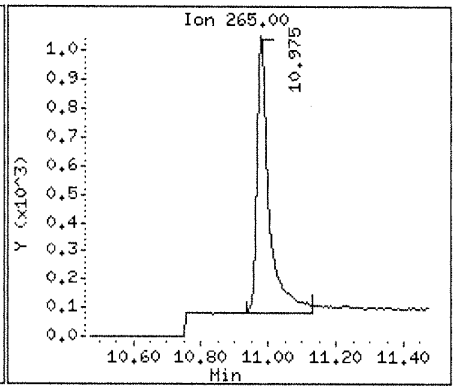


Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

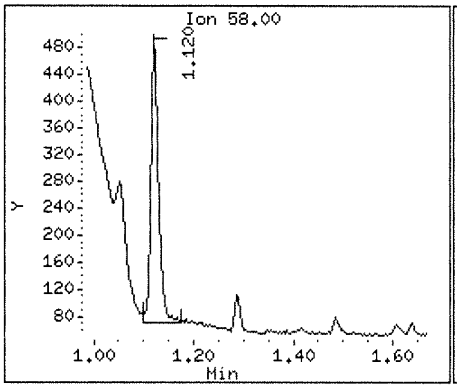
* 198 Perylene-d12

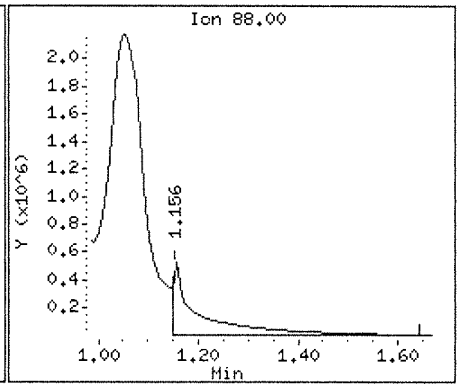






1 1,4-Dioxane





ALS Laboratory Group

TARGET COMPOUNDS

Client Name:
Lab Smp Id: HS24051669-01
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: ;;0;1;

Client SDG: SDGa71345
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: LG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
----------	1,4-Dioxane	0.6051	
4165-60-0	Nitrobenzene-d5	0.07356	
321-60-8	2-Fluorobiphenyl	0.06453	
1718-51-0	4-Terphenyl-d14	0.07536	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

Date : 07-JUN-2024 20:22

Client ID:

Instrument: SV6.i

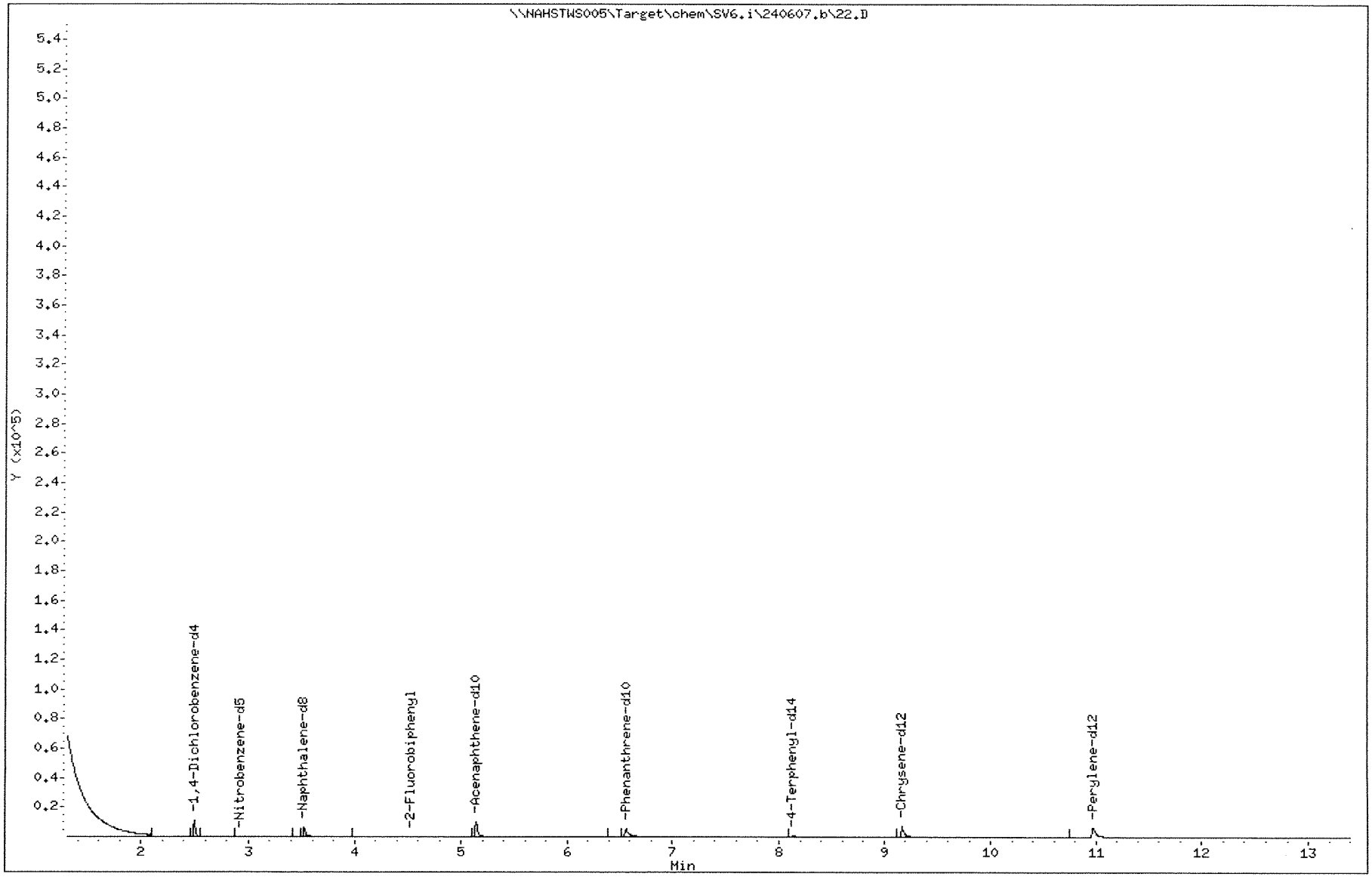
Sample Info: HS24051669-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

Date : 07-JUN-2024 20:22

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-01X10

Purge Volume: 1000.0

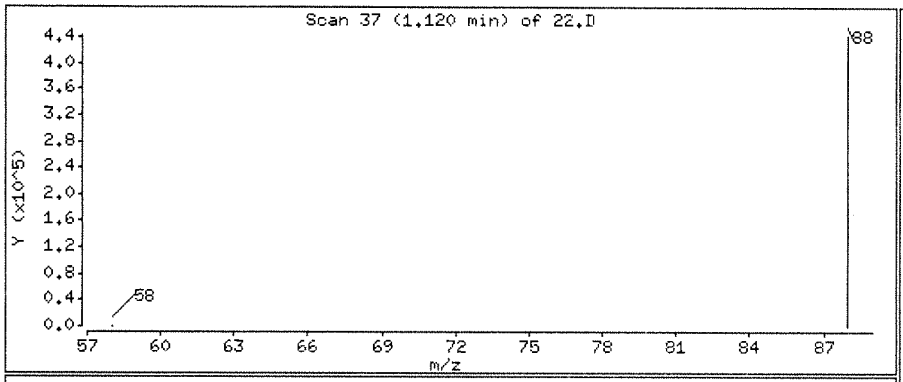
Operator: LC

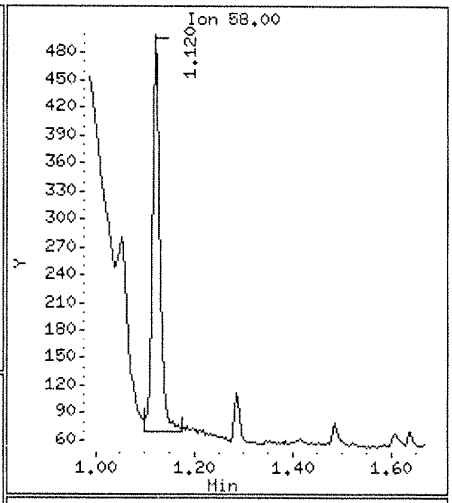
Column phase: RTX-5SIL MS

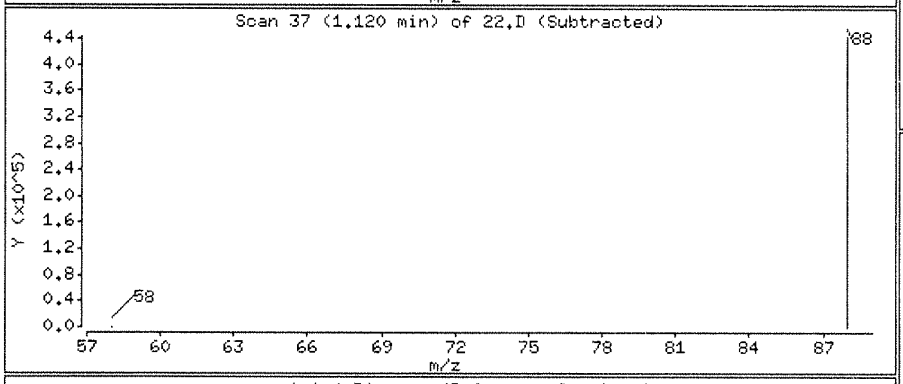
Column diameter: 0.28

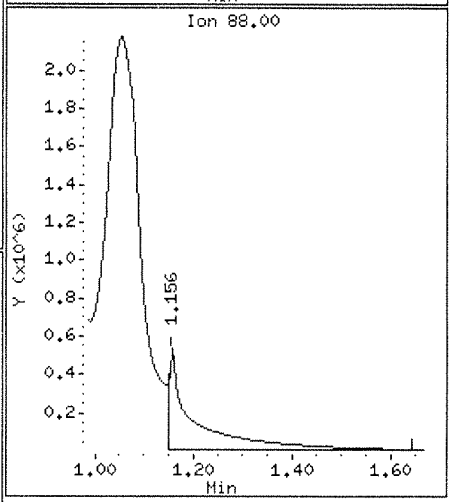
1 1,4-Dioxane

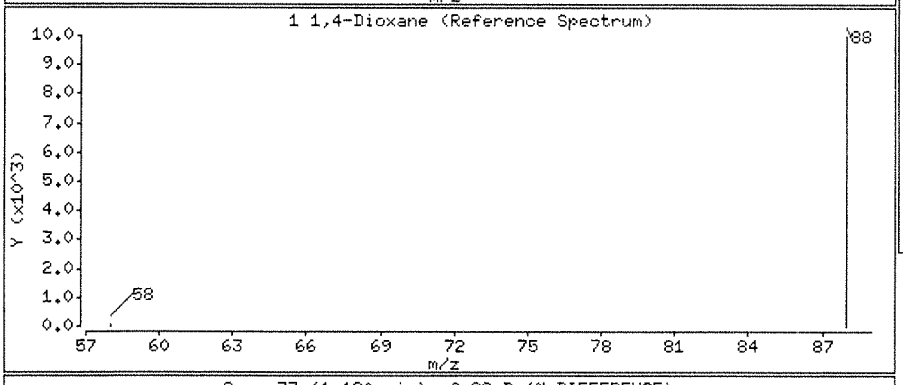
Concentration: 0.6051 ug/L

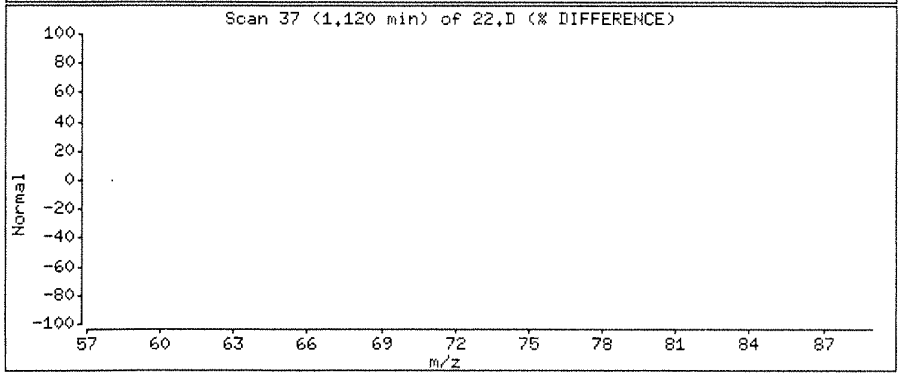












Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D Page 2
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: SV6.i
Lab File ID: 22.D
Lab Smp Id: HS24051669-01
Analysis Type: SV
Quant Type: ISTD
Operator: LG
Method File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Misc Info: ;;0;1;

Calibration Date: 07-JUN-2024
Calibration Time: 13:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
20 1,4-Dichlorobenze	4250	2125	8500	3526	-17.04
45 Naphthalene-d8	13721	6861	27442	10642	-22.44
86 Acenaphthene-d10	8713	4357	17426	7522	-13.67
126 Phenanthrene-d10	16323	8162	32646	12672	-22.37
182 Chrysene-d12	14037	7019	28074	11640	-17.08
198 Perylene-d12	7881	3941	15762	12174	54.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
20 1,4-Dichlorobenze	2.50	2.00	3.00	2.50	0.21
45 Naphthalene-d8	3.51	3.01	4.01	3.52	0.21
86 Acenaphthene-d10	5.14	4.64	5.64	5.14	0.10
126 Phenanthrene-d10	6.56	6.06	7.06	6.57	0.08
182 Chrysene-d12	9.17	8.67	9.67	9.17	0.06
198 Perylene-d12	10.98	10.48	11.48	10.98	-0.01

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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D Page 1
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

LIMIT OF DETECTION REPORT

Data file : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Lab Smp Id: HS24051669-01
Inj Date : 07-JUN-2024 20:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

COMPOUND NAME	RT	RESPONSE	AMOUNT	LOD

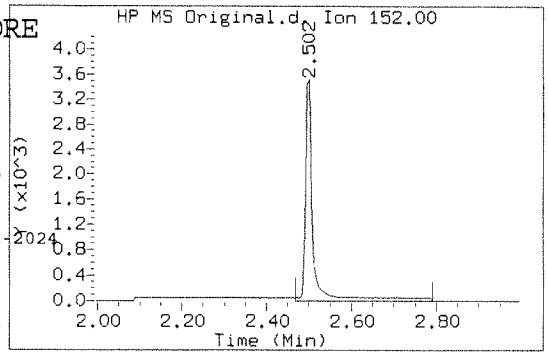
Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

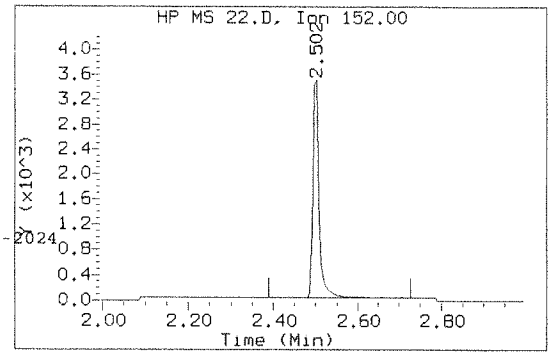
BEFORE

MASS 152
AREA 4538
HEIGHT 3515
07-Jun-2024 20:40
ALSHS Server



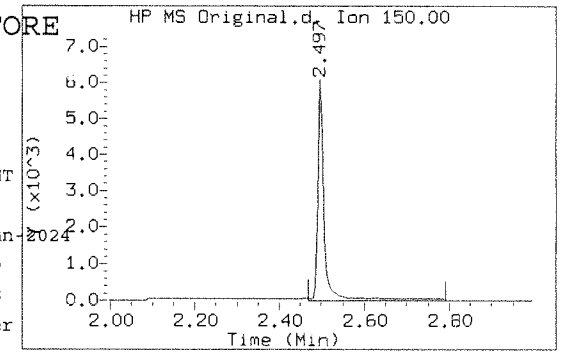
AFTER

MASS 152
AREA 3526
HEIGHT 3463
12-Jun-2024 13:00



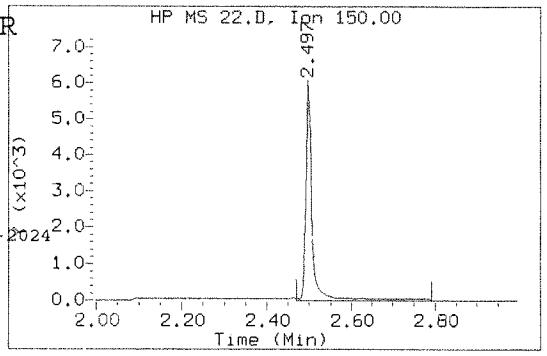
BEFORE

MASS 150
AREA 6567
HEIGHT 6092
07-Jun-2024 20:40
ALSHS Server



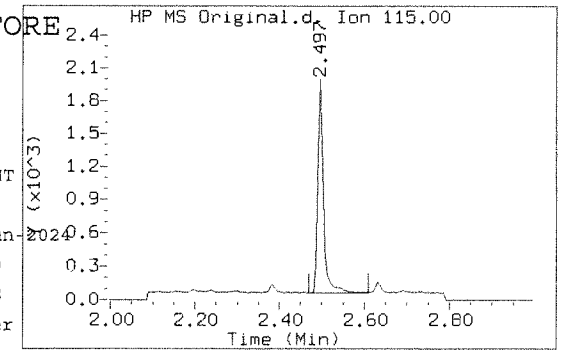
AFTER

MASS 150
AREA 6567
HEIGHT 6092
12-Jun-2024 13:00



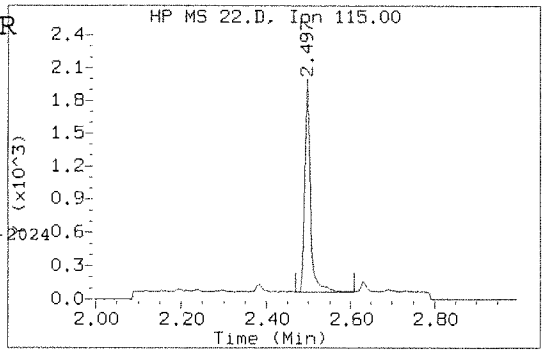
BEFORE

MASS 115
AREA 1791
HEIGHT 1934
07-Jun-2024 20:40
ALSHS Server



AFTER

MASS 115
AREA 1791
HEIGHT 1934
12-Jun-2024 13:00

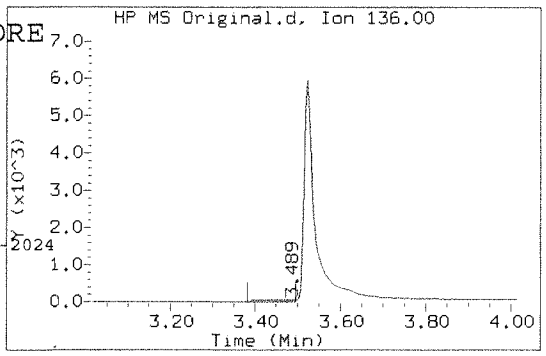


Naphthalene-d8 (1146-65-2)

Reason Code:

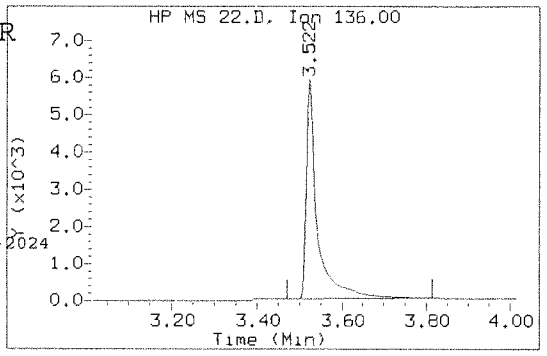
BEFORE

MASS 136
AREA 319
HEIGHT 50
07-Jun-2024 20:40
ALSHS Server



AFTER

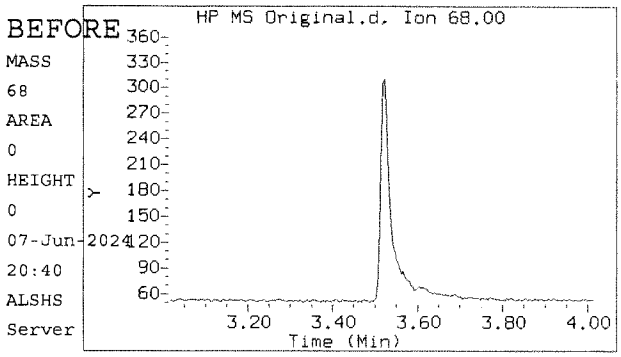
MASS 136
AREA 10642
HEIGHT 5912
12-Jun-2024 13:00

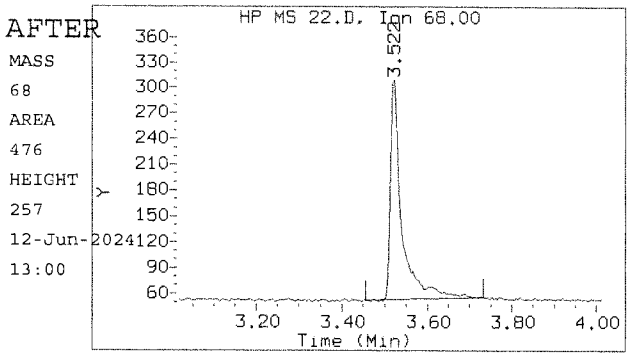


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

Naphthalene-d8 (1146-65-2)

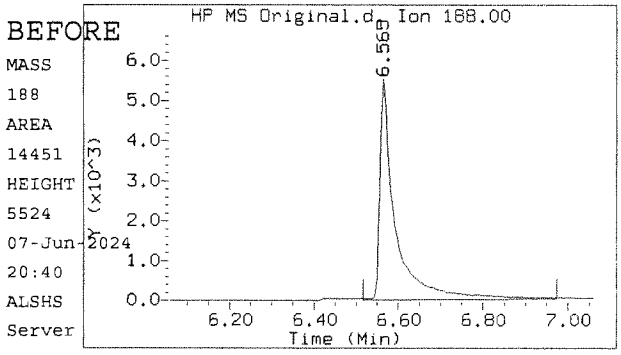
Reason Code:

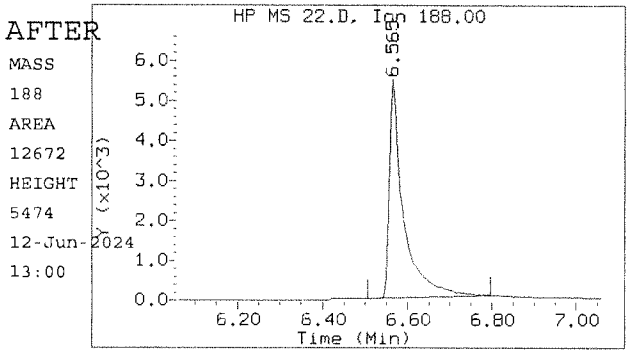


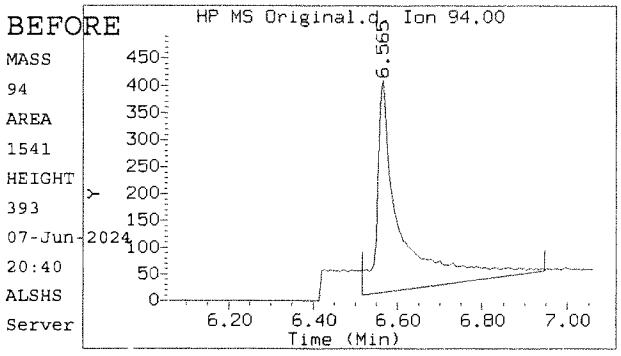


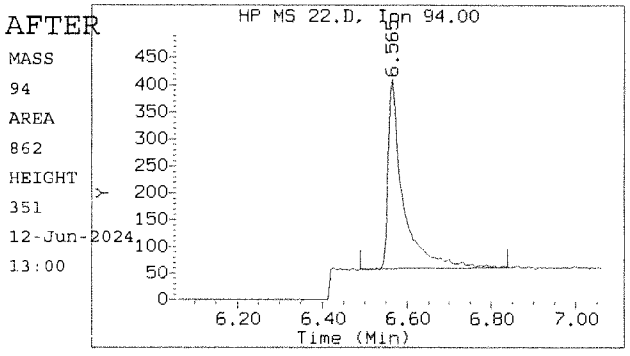
Phenanthrene-d10 (1517-22-2)

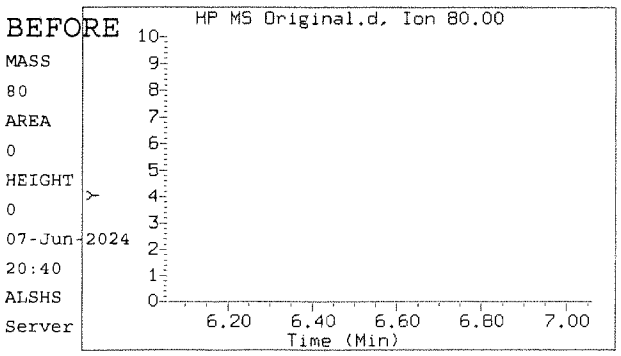
Reason Code:

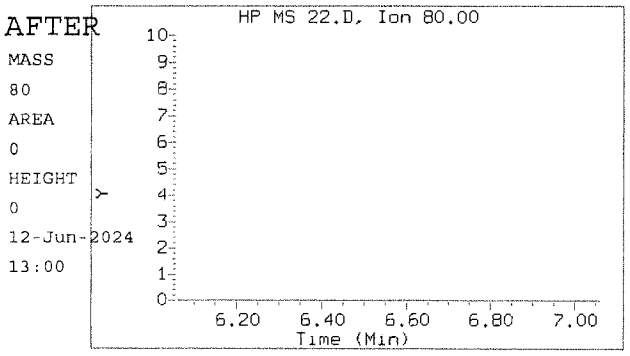










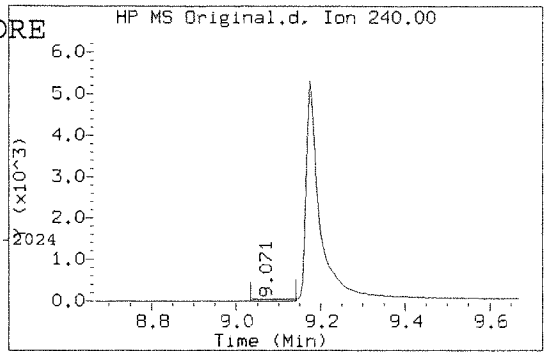


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

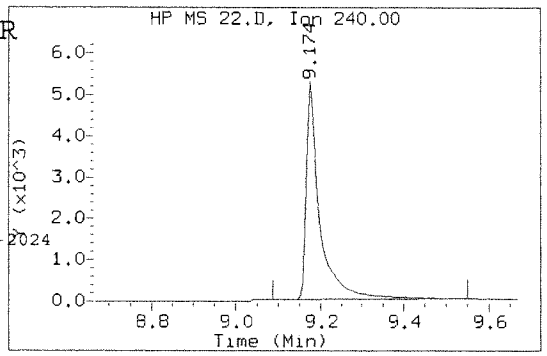
Chrysene-d12 (1719-03-5)

Reason Code:

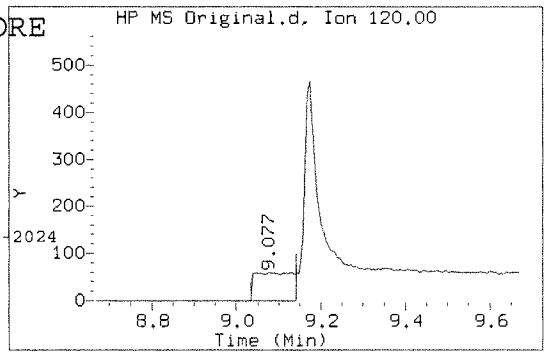
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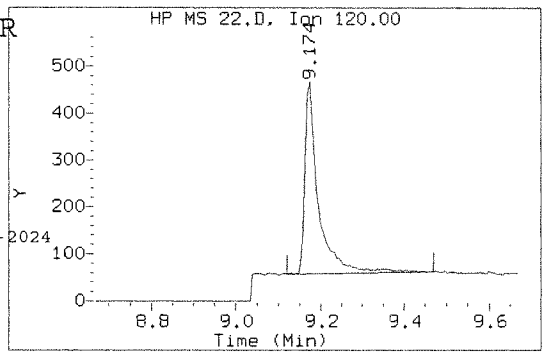
AFTER



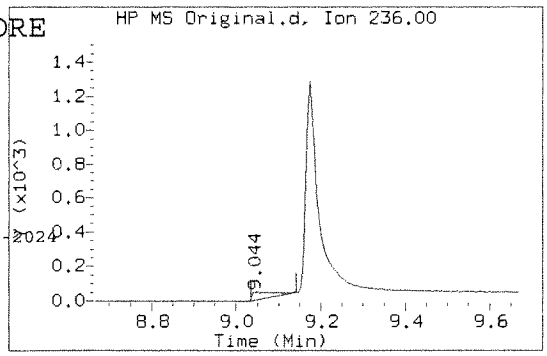
BEFORE



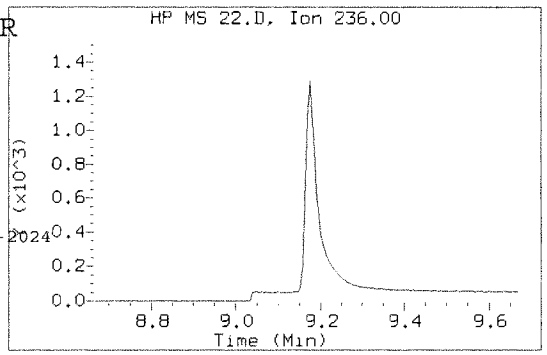
AFTER



BEFORE



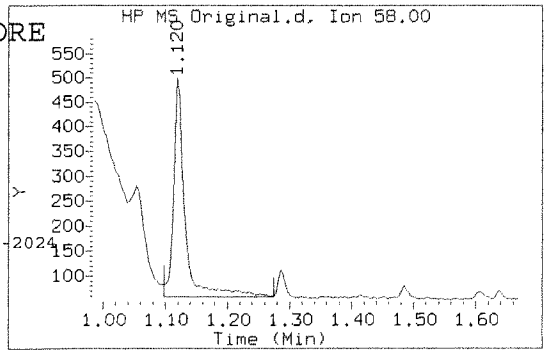
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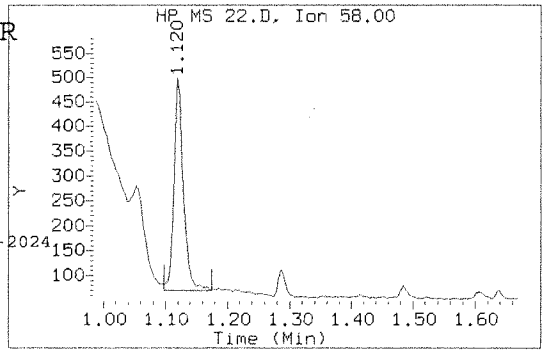
1,4-Dioxane ()

Reason Code:

BEFORE



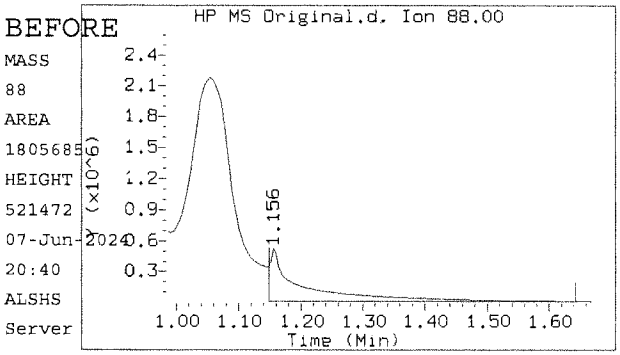
AFTER

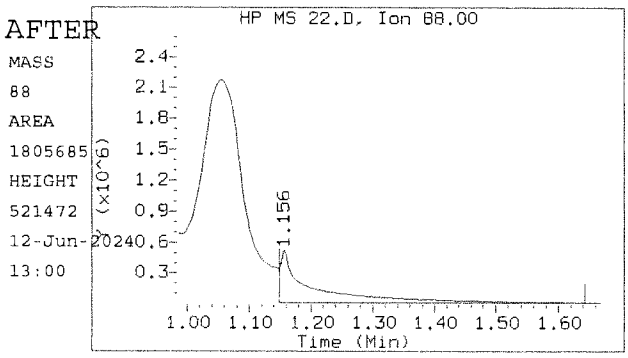


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

1,4-Dioxane ()

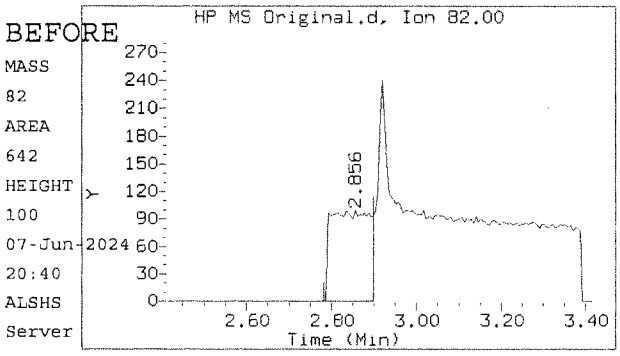
Reason Code:

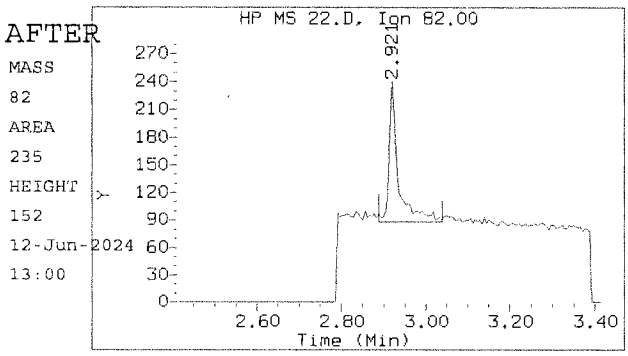


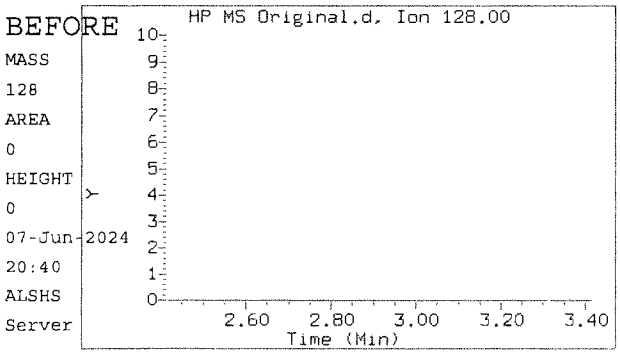


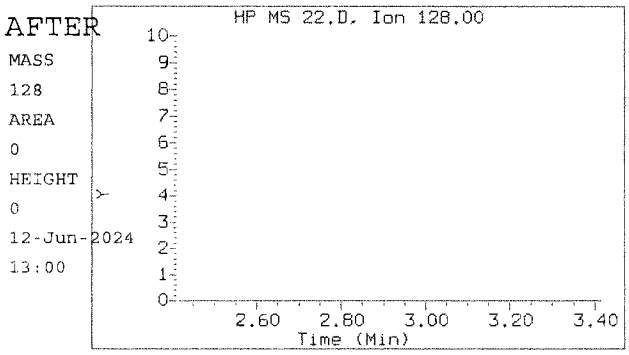
Nitrobenzene-d5 (4165-60-0)

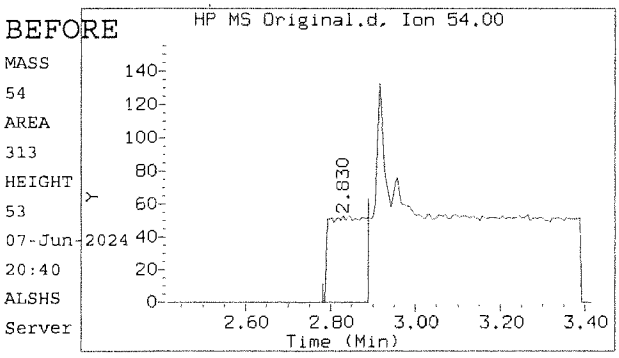
Reason Code:

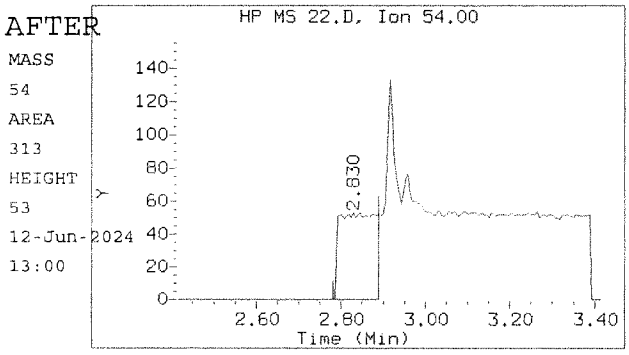










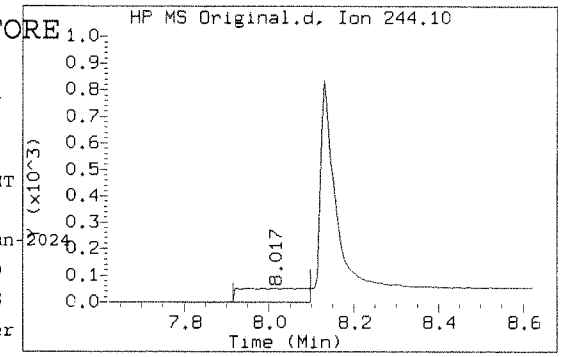


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

4-Terphenyl-d14 (1718-51-0)

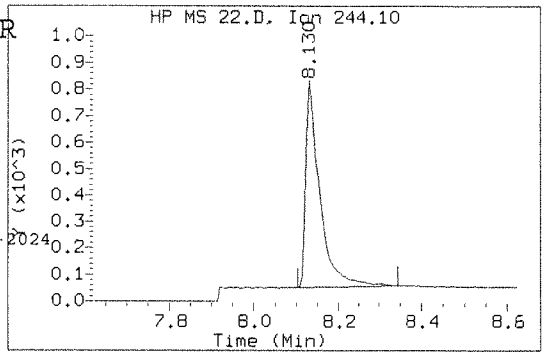
Reason Code:

BEFORE



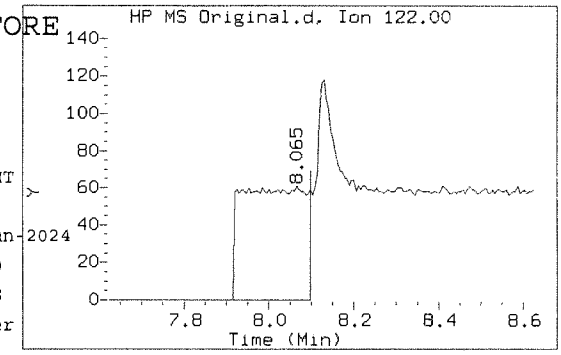
MASS 244.1
AREA 550
HEIGHT 52
07-Jun-2024 20:40
ALSHS Server

AFTER



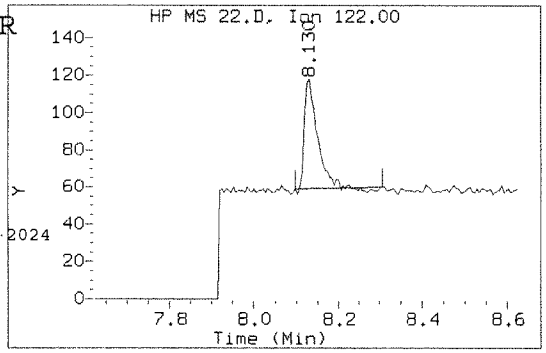
MASS 244.1
AREA 1787
HEIGHT 782
12-Jun-2024 13:00

BEFORE



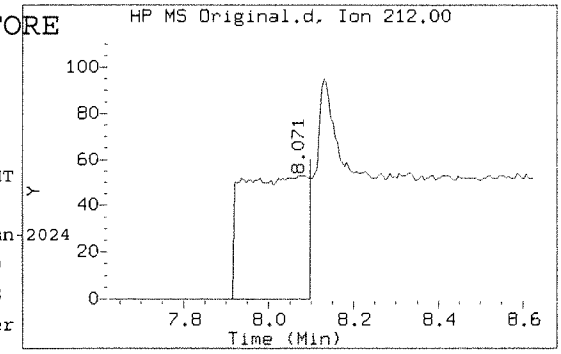
MASS 122
AREA 637
HEIGHT 61
07-Jun-2024 20:40
ALSHS Server

AFTER



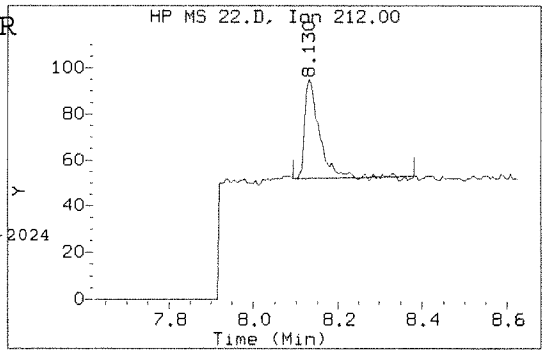
MASS 122
AREA 119
HEIGHT 58
12-Jun-2024 13:00

BEFORE



MASS 212
AREA 561
HEIGHT 53
07-Jun-2024 20:40
ALSHS Server

AFTER

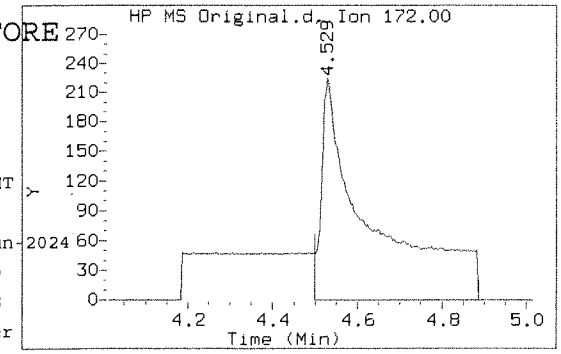


MASS 212
AREA 98
HEIGHT 42
12-Jun-2024 13:00

2-Fluorobiphenyl (321-60-8)

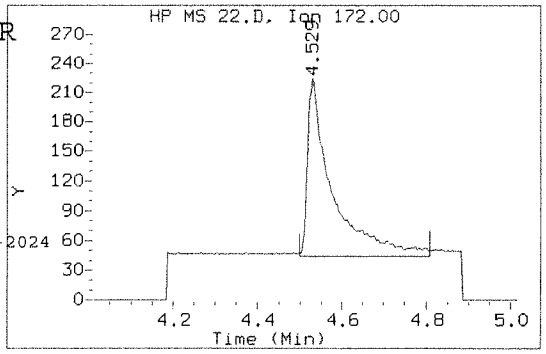
Reason Code:

BEFORE



MASS 172
AREA 1789
HEIGHT 225
07-Jun-2024 20:40
ALSHS Server

AFTER



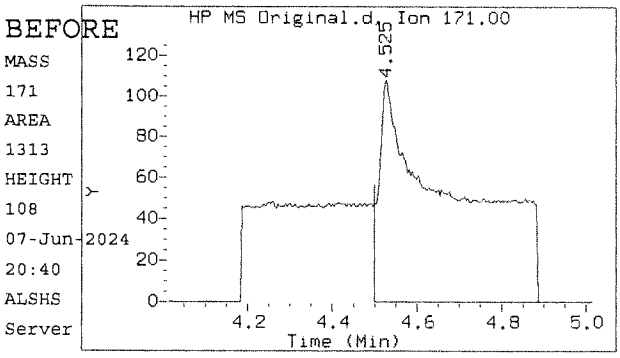
MASS 172
AREA 742
HEIGHT 181
12-Jun-2024 13:00

Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

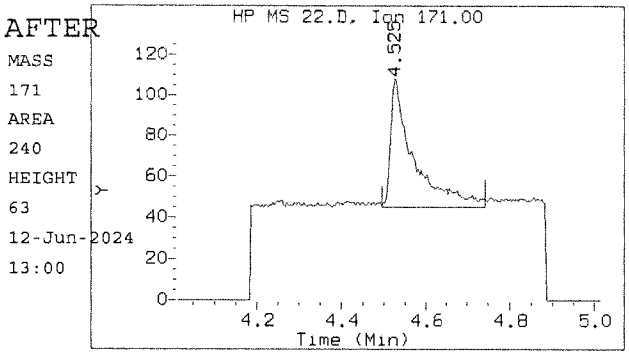
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE



AFTER



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Lab Smp Id: HS24051669-01
Inj Date : 07-JUN-2024 20:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	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	2.502	2.496	(1.000)	3526	0.10000	(aM)
* 45 Naphthalene-d8	136	3.522	3.514	(1.000)	10642	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.920	2.915	(0.829)	235	0.00736	0.07356(M)
* 86 Acenaphthene-d10	164	5.143	5.138	(1.000)	7522	0.10000	
$ 69 2-Fluorobiphenyl	172	4.529	4.514	(0.881)	742	0.00645	0.06453(M)
* 126 Phenanthrene-d10	188	6.565	6.559	(1.000)	12672	0.10000	(M)
* 182 Chrysene-d12	240	9.173	9.168	(1.000)	11640	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.129	8.124	(0.886)	1787	0.00754	0.07536(M)
* 198 Perylene-d12	264	10.975	10.975	(1.000)	12174	0.10000	
1 1,4-Dioxane	58	1.119	1.167	(0.447)	457	0.06051	0.6051(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\240607.b\22.D Page 2
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

RECOVERY REPORT

Client Name: Client SDG: SDGa71345
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: HS24051669-01
Level: LOW Operator: LG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: c&gspk.spk Quant Type: ISTD
Sublist File: 14dx.sub
Method File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Misc Info: ;;0;1;

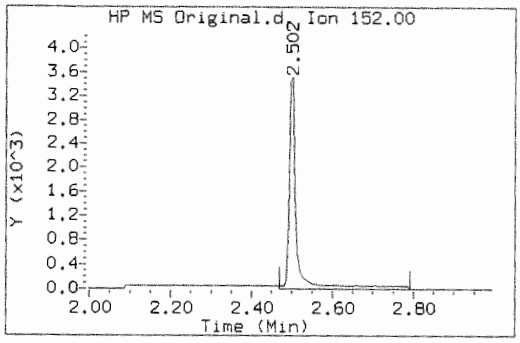
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 33 Nitrobenzene-d5	0.08000	0.07356	91.95	40-140
$ 69 2-Fluorobiphenyl	0.08000	0.06453	80.66	40-140
$ 158 4-Terphenyl-d14	0.08000	0.07536	94.20	40-140

ata File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
nj Date : 07-JUN-2024 20:22
nstruID : SV6.i
abSampID : HS24051669-01

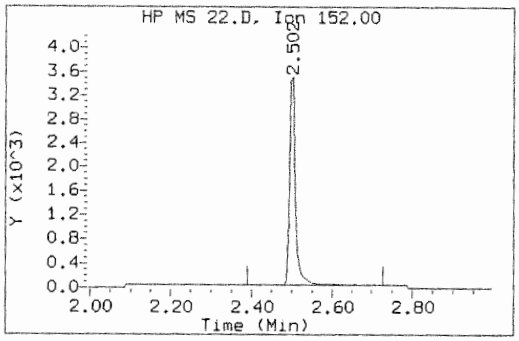
,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

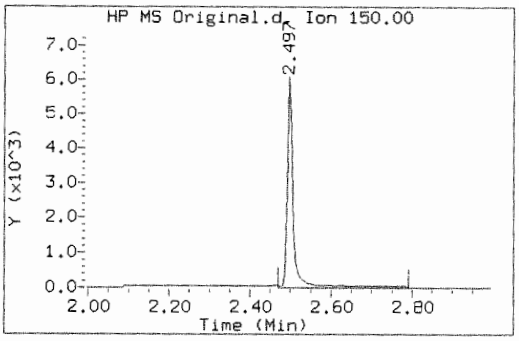
EFORE
ASS
52
REA
538
EIGHT
515
07-Jun-2024
20:40
ALSHS
Server



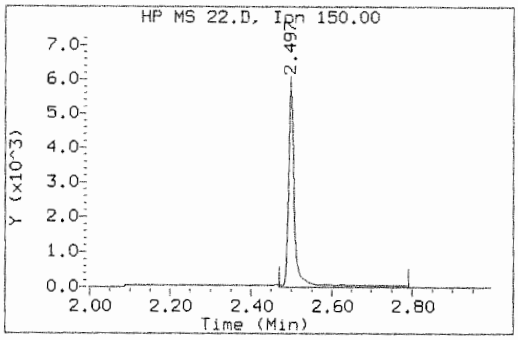
AFTER
MASS
152
AREA
3526
HEIGHT
3463
12-Jun-2024
13:00



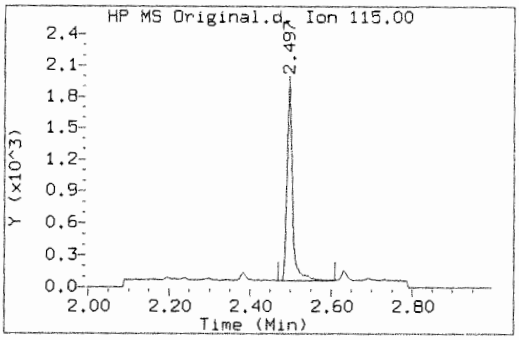
BEFORE
MASS
150
AREA
6567
HEIGHT
6092
07-Jun-2024
20:40
ALSHS
Server



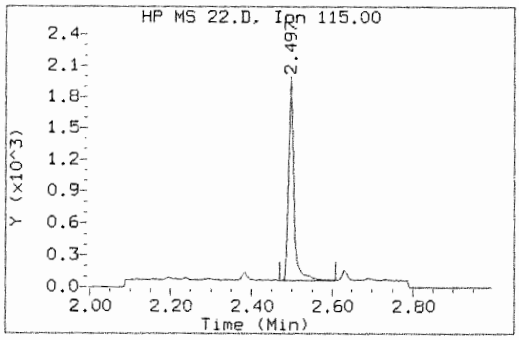
AFTER
MASS
150
AREA
6567
HEIGHT
6092
12-Jun-2024
13:00



BEFORE
MASS
115
AREA
1791
HEIGHT
1934
07-Jun-2024
20:40
ALSHS
Server



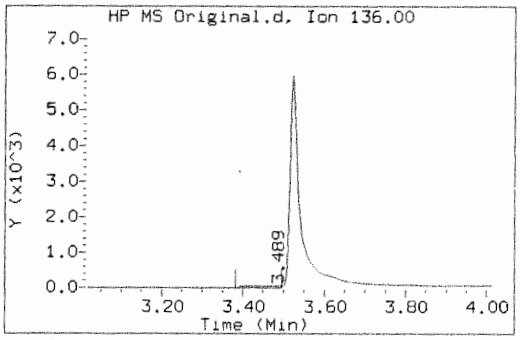
AFTER
MASS
115
AREA
1791
HEIGHT
1934
12-Jun-2024
13:00



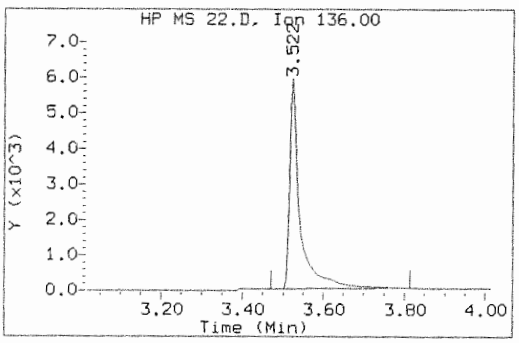
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
319
HEIGHT
50
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
136
AREA
10642
HEIGHT
5912
12-Jun-2024
13:00

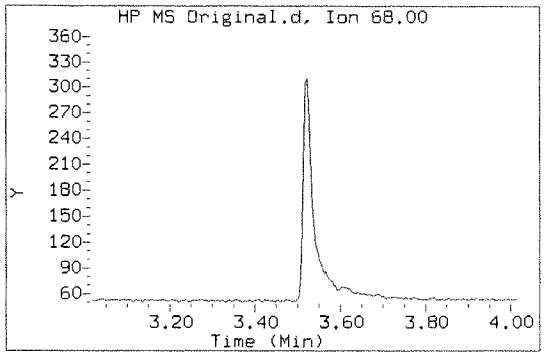


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

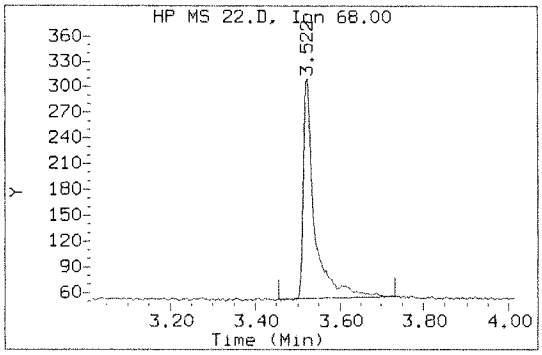
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



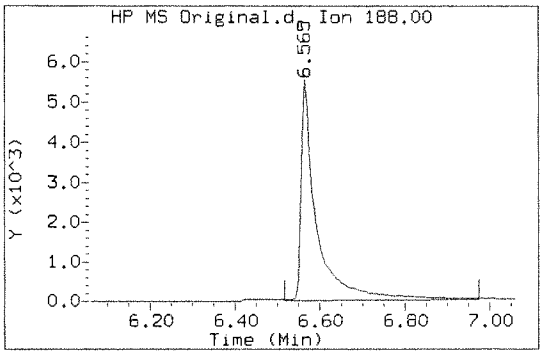
AFTER
MASS
68
AREA
476
HEIGHT
257
12-Jun-2024
13:00



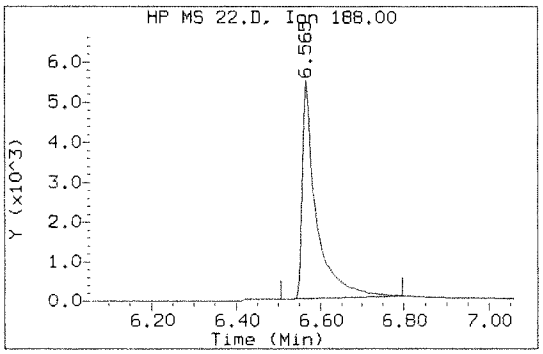
Phenanthrene-d10 (1517-22-2)

Reason Code:

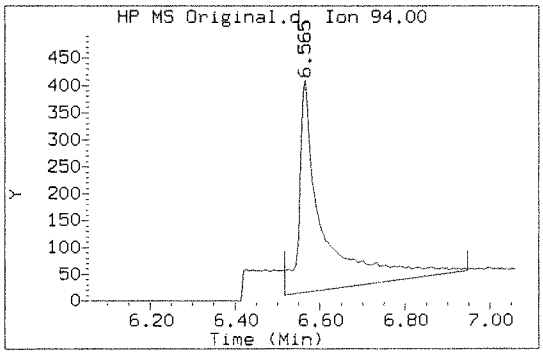
BEFORE
MASS
188
AREA
14451
HEIGHT
5524
07-Jun-2024
20:40
ALSHS
Server



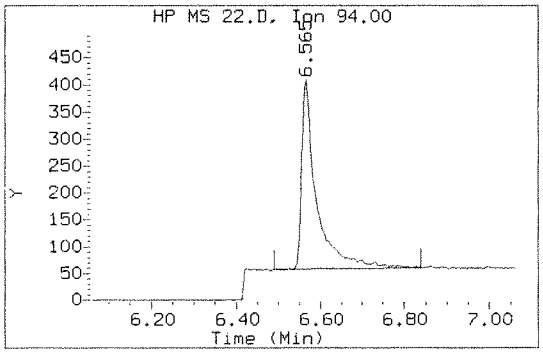
AFTER
MASS
188
AREA
12672
HEIGHT
5474
12-Jun-2024
13:00



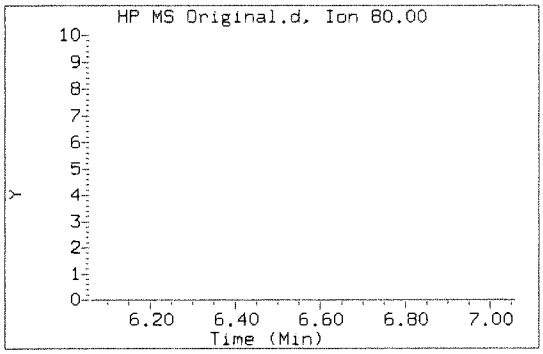
BEFORE
MASS
94
AREA
1541
HEIGHT
393
07-Jun-2024
20:40
ALSHS
Server



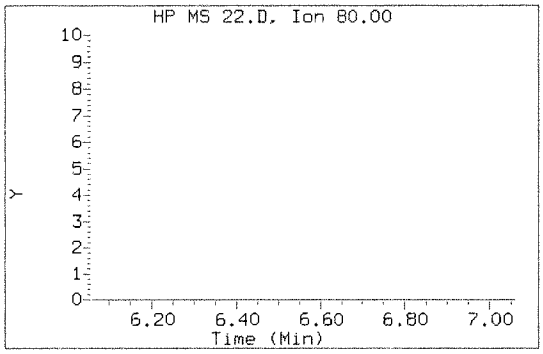
AFTER
MASS
94
AREA
862
HEIGHT
351
12-Jun-2024
13:00



BEFORE
MASS
80
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
12-Jun-2024
13:00

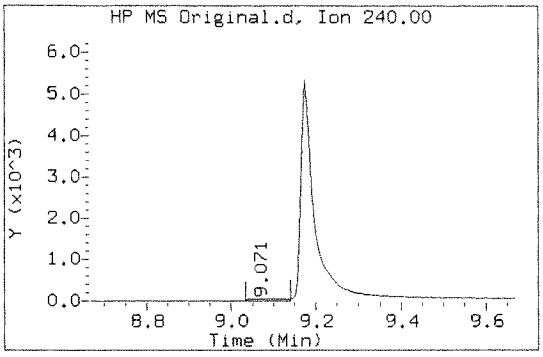


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

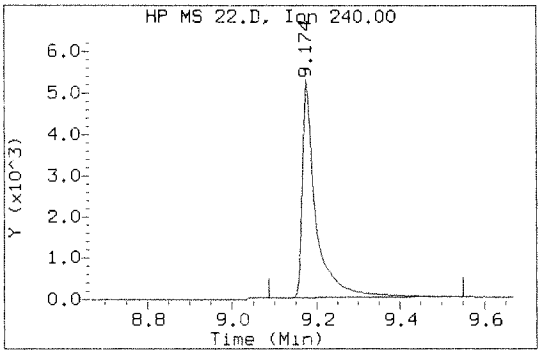
Chrysene-d12 (1719-03-5)

Reason Code:

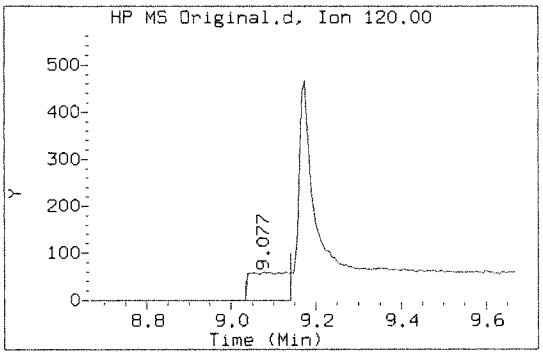
BEFORE
MASS
240
AREA
330
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



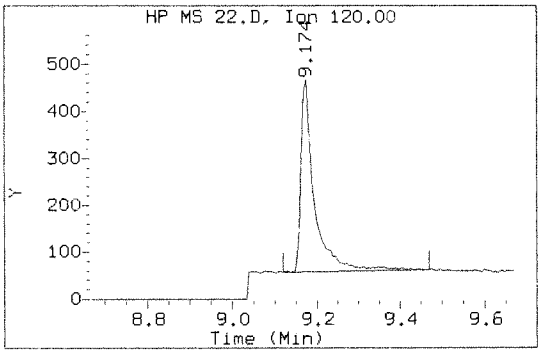
AFTER
MASS
240
AREA
11640
HEIGHT
5272
12-Jun-2024
13:00



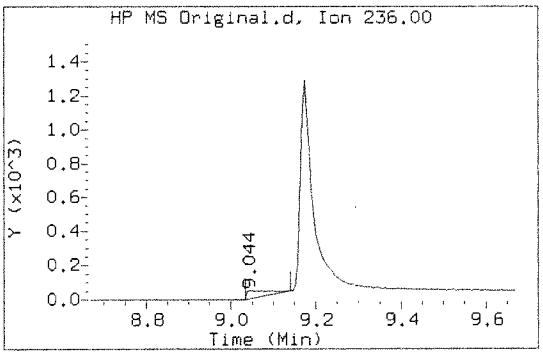
BEFORE
MASS
120
AREA
370
HEIGHT
59
07-Jun-2024
20:40
ALSHS
Server



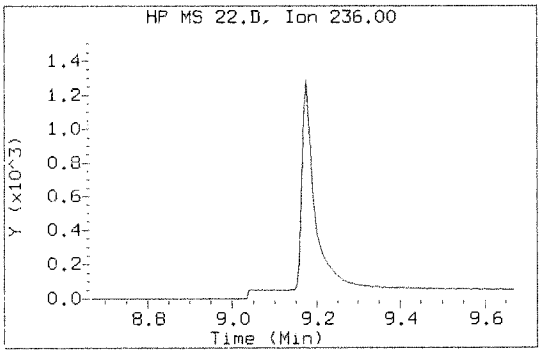
AFTER
MASS
120
AREA
903
HEIGHT
409
12-Jun-2024
13:00



BEFORE
MASS
236
AREA
151
HEIGHT
45
07-Jun-2024
20:40
ALSHS
Server



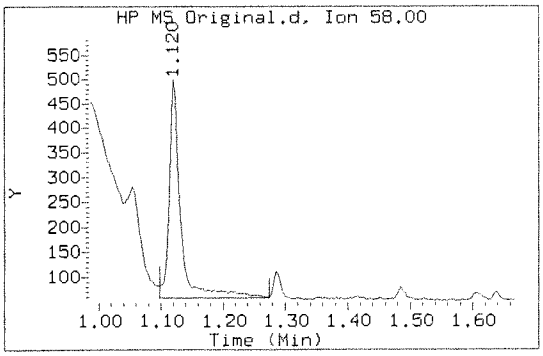
AFTER
MASS
236
AREA
2790
HEIGHT
1240
12-Jun-2024
13:00



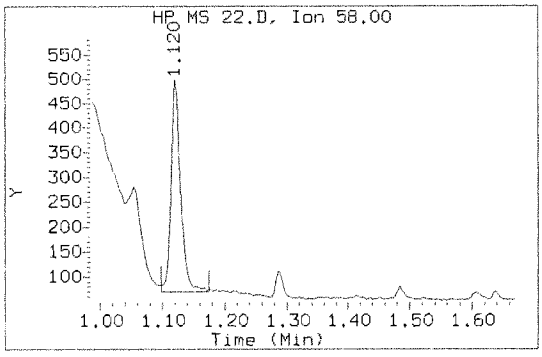
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
571
HEIGHT
442
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
58
AREA
457
HEIGHT
430
12-Jun-2024
13:00

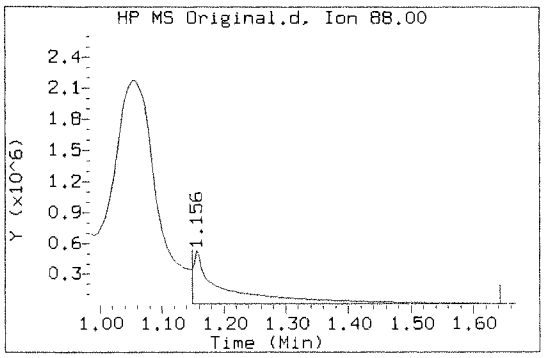


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

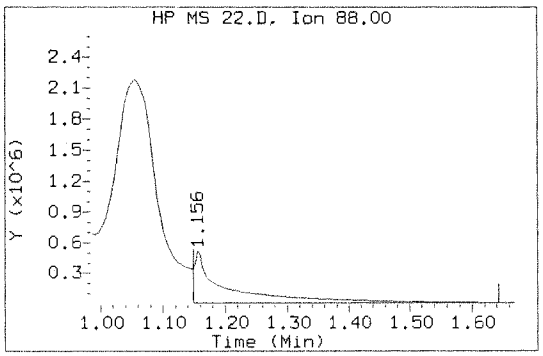
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
1805685
HEIGHT
521472
07-Jun-2024
20:40
ALSHS
Server



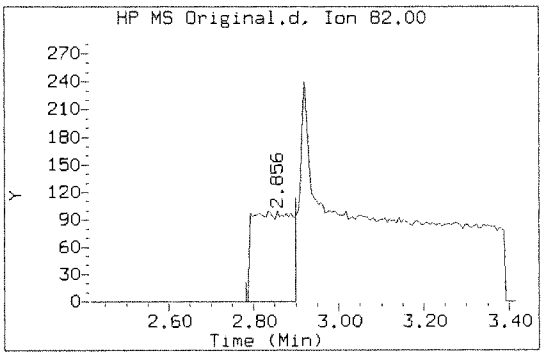
AFTER
MASS
88
AREA
1805685
HEIGHT
521472
12-Jun-2024
13:00



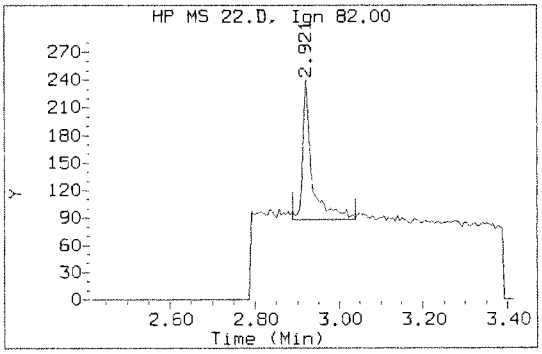
Nitrobenzene-d5 (4165-60-0)

Reason Code:

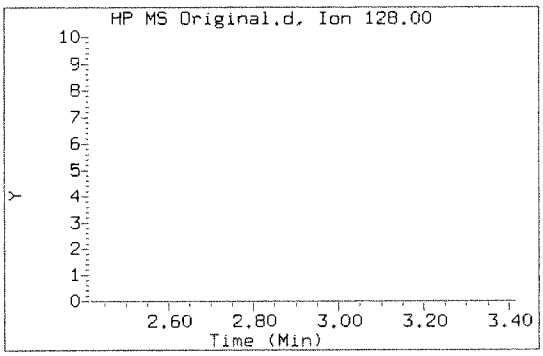
BEFORE
MASS
82
AREA
642
HEIGHT
100
07-Jun-2024
20:40
ALSHS
Server



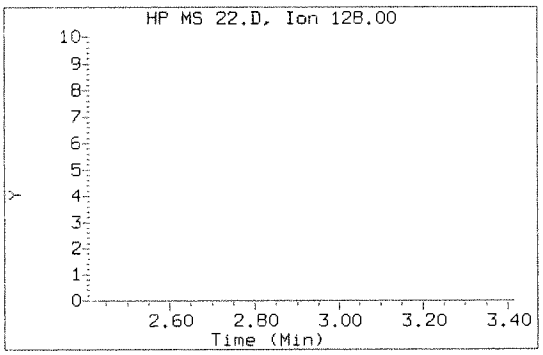
AFTER
MASS
82
AREA
235
HEIGHT
152
12-Jun-2024
13:00



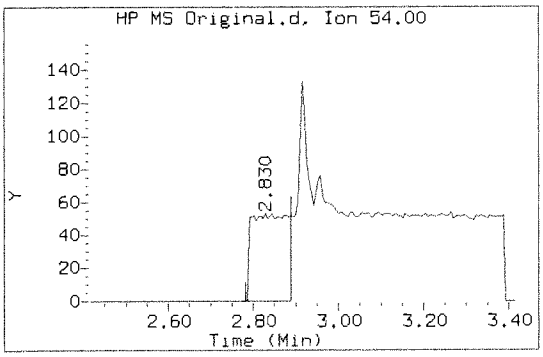
BEFORE
MASS
128
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



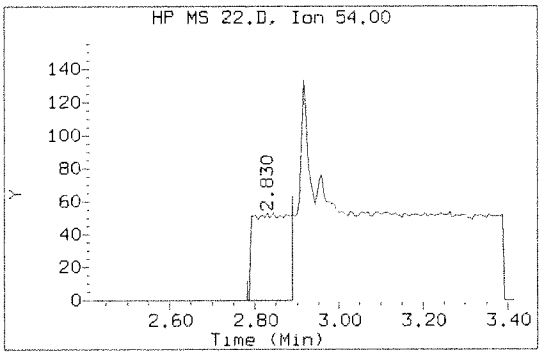
AFTER
MASS
128
AREA
0
HEIGHT
0
12-Jun-2024
13:00



BEFORE
MASS
54
AREA
313
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
54
AREA
313
HEIGHT
53
12-Jun-2024
13:00

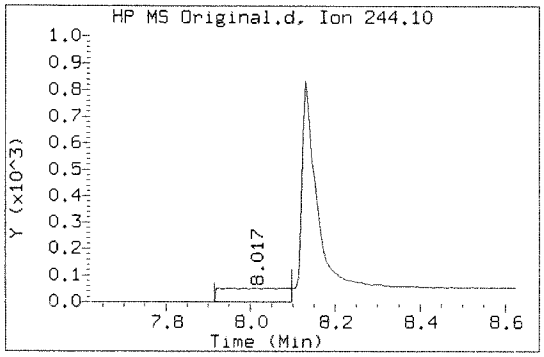


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

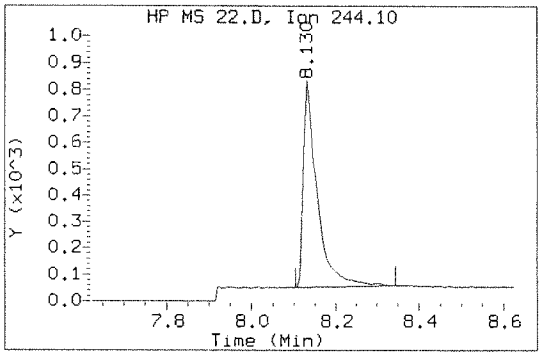
4-Terphenyl-d14 (1718-51-0)

Reason Code:

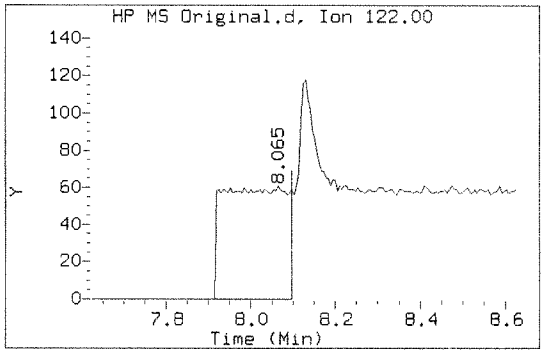
BEFORE
MASS
244.1
AREA
550
HEIGHT
52
07-Jun-2024
20:40
ALSHS
Server



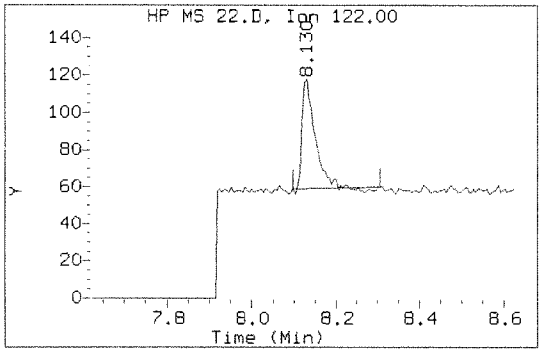
AFTER
MASS
244.1
AREA
1787
HEIGHT
782
12-Jun-2024
13:00



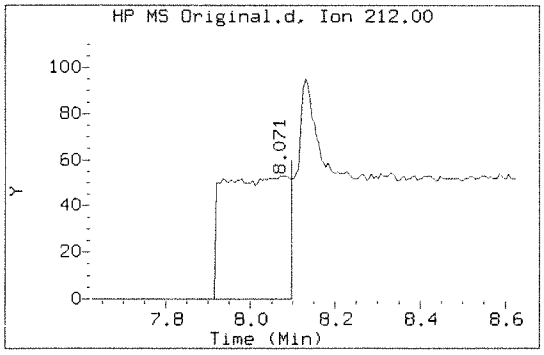
BEFORE
MASS
122
AREA
637
HEIGHT
61
07-Jun-2024
20:40
ALSHS
Server



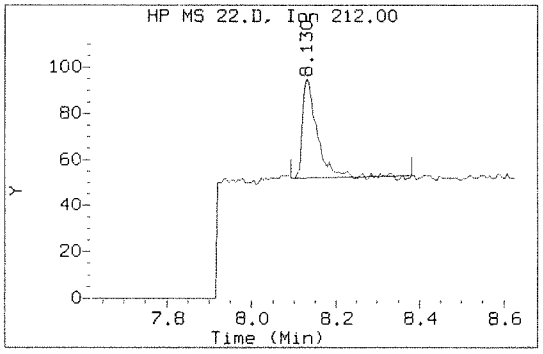
AFTER
MASS
122
AREA
119
HEIGHT
58
12-Jun-2024
13:00



BEFORE
MASS
212
AREA
561
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



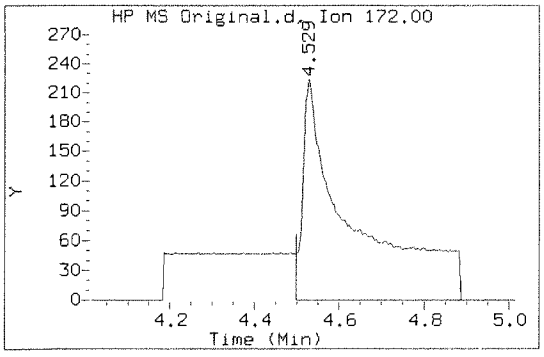
AFTER
MASS
212
AREA
98
HEIGHT
42
12-Jun-2024
13:00



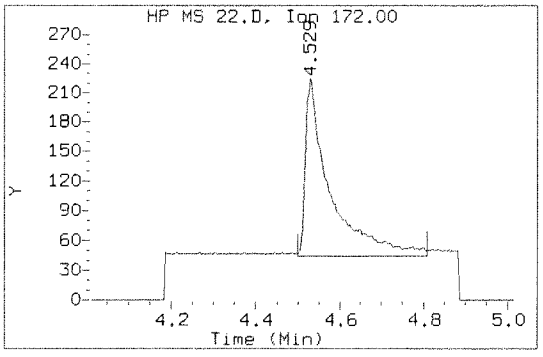
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
1789
HEIGHT
225
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
172
AREA
742
HEIGHT
181
12-Jun-2024
13:00

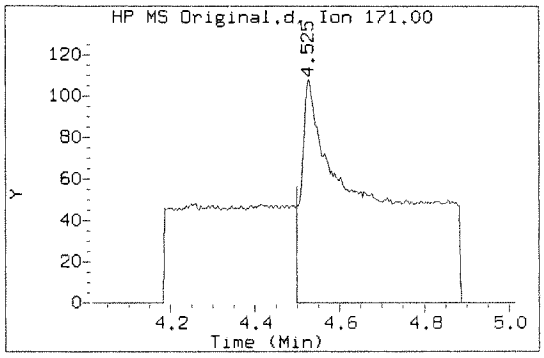


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

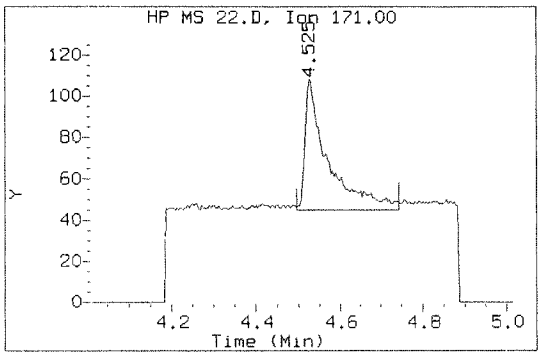
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
171
AREA
1313
HEIGHT
108
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
171
AREA
240
HEIGHT
63
12-Jun-2024
13:00



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D
Lab Smp Id: HS24051434-06
Inj Date : 31-MAY-2024 20:08
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23
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

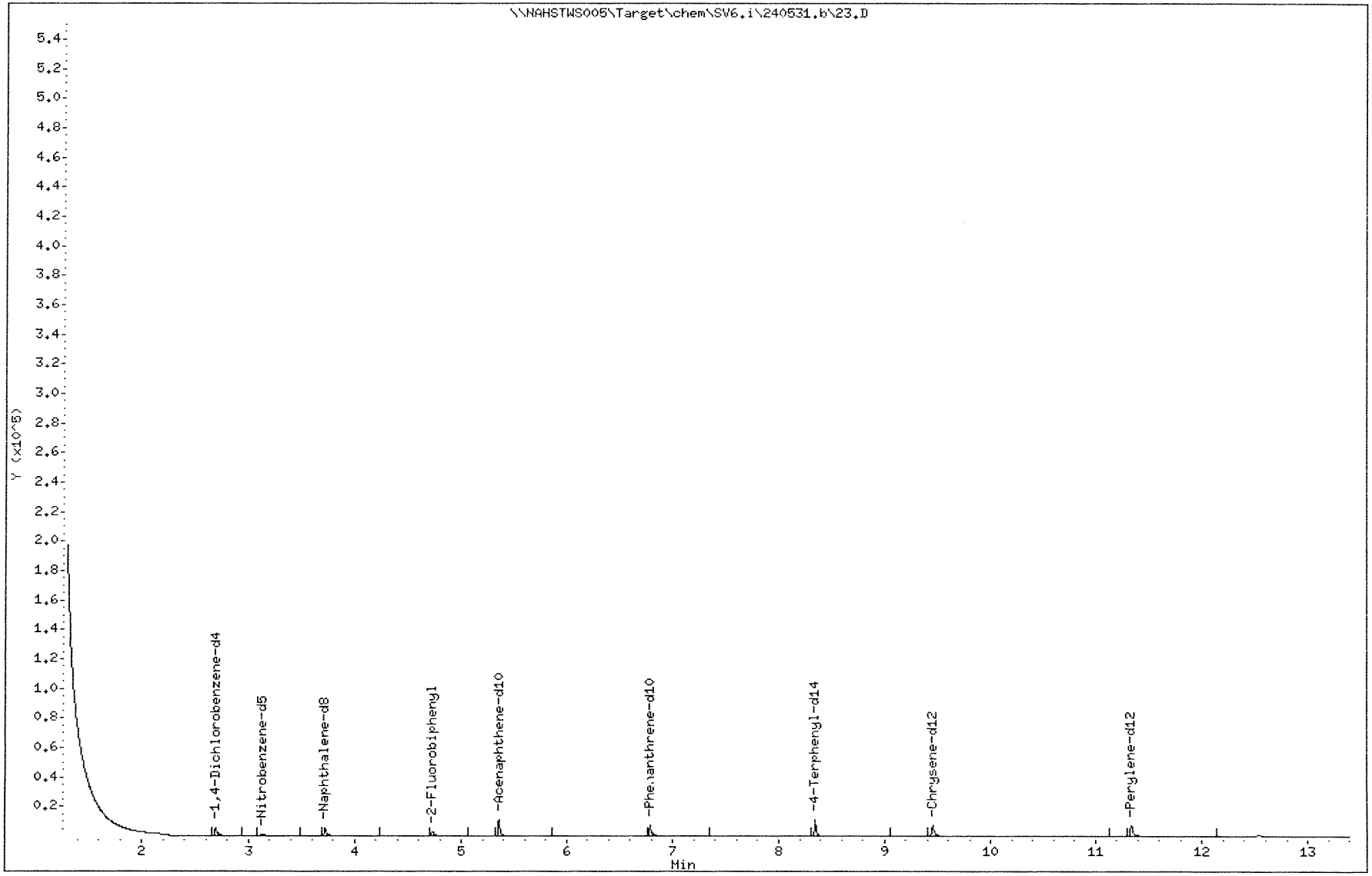
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2929	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	9576	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	1531	0.05326	0.05326	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	6069	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4767	0.05138	0.05138	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	12115	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	9877	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	12614	0.06269	0.06269	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	10761	0.10000		
1 1,4-Dioxane	58	1.278	1.267	(0.475)	553	0.08814	0.08814	(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\240531.b\23.D
Date : 31-MAY-2024 20:08
Client ID:
Sample Info: HS24051434-06
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\240531.b\23.D

Date : 31-MAY-2024 20:08

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-06

Purge Volume: 1000.0

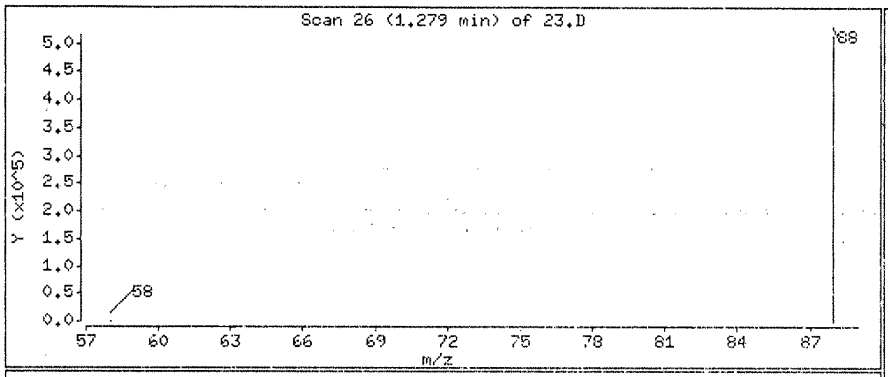
Operator: LG

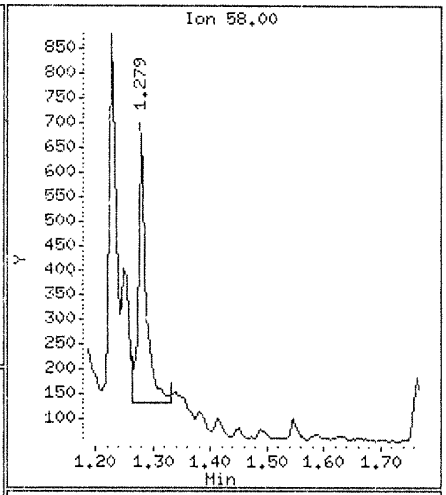
Column phase: RTX-5SIL MS

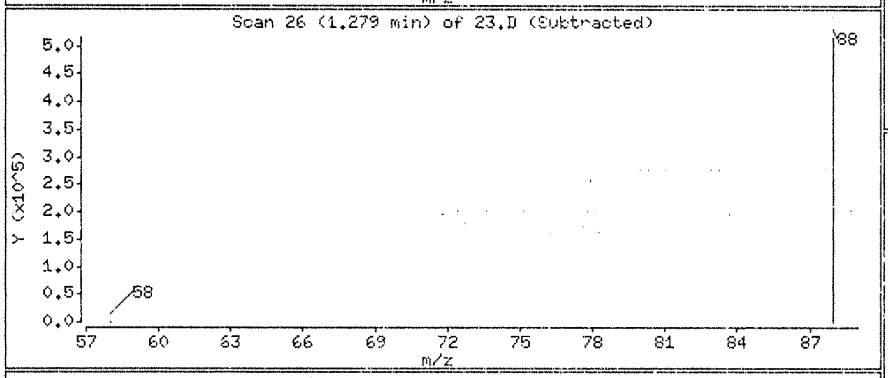
Column diameter: 0.28

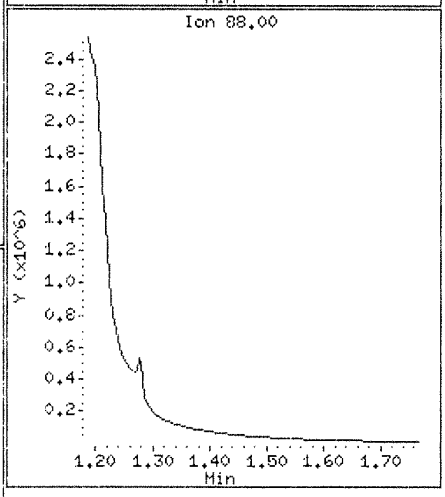
1 1,4-Dioxane

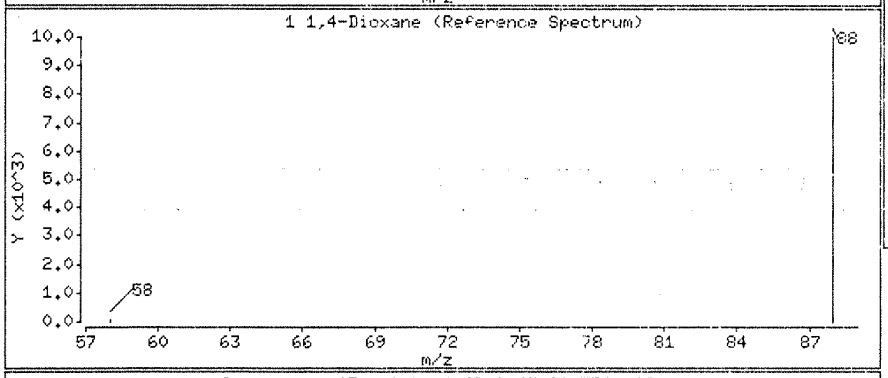
Concentration: 0.08814 ug/L

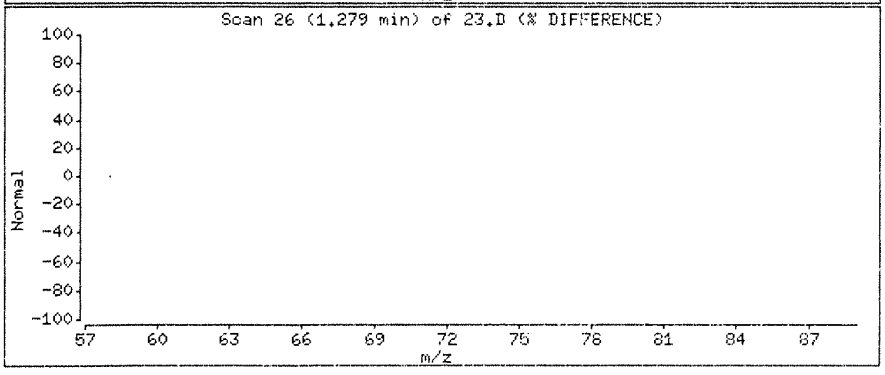












Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Lab Smp Id: HS24051669-02
Inj Date : 31-MAY-2024 20:43
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 25
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

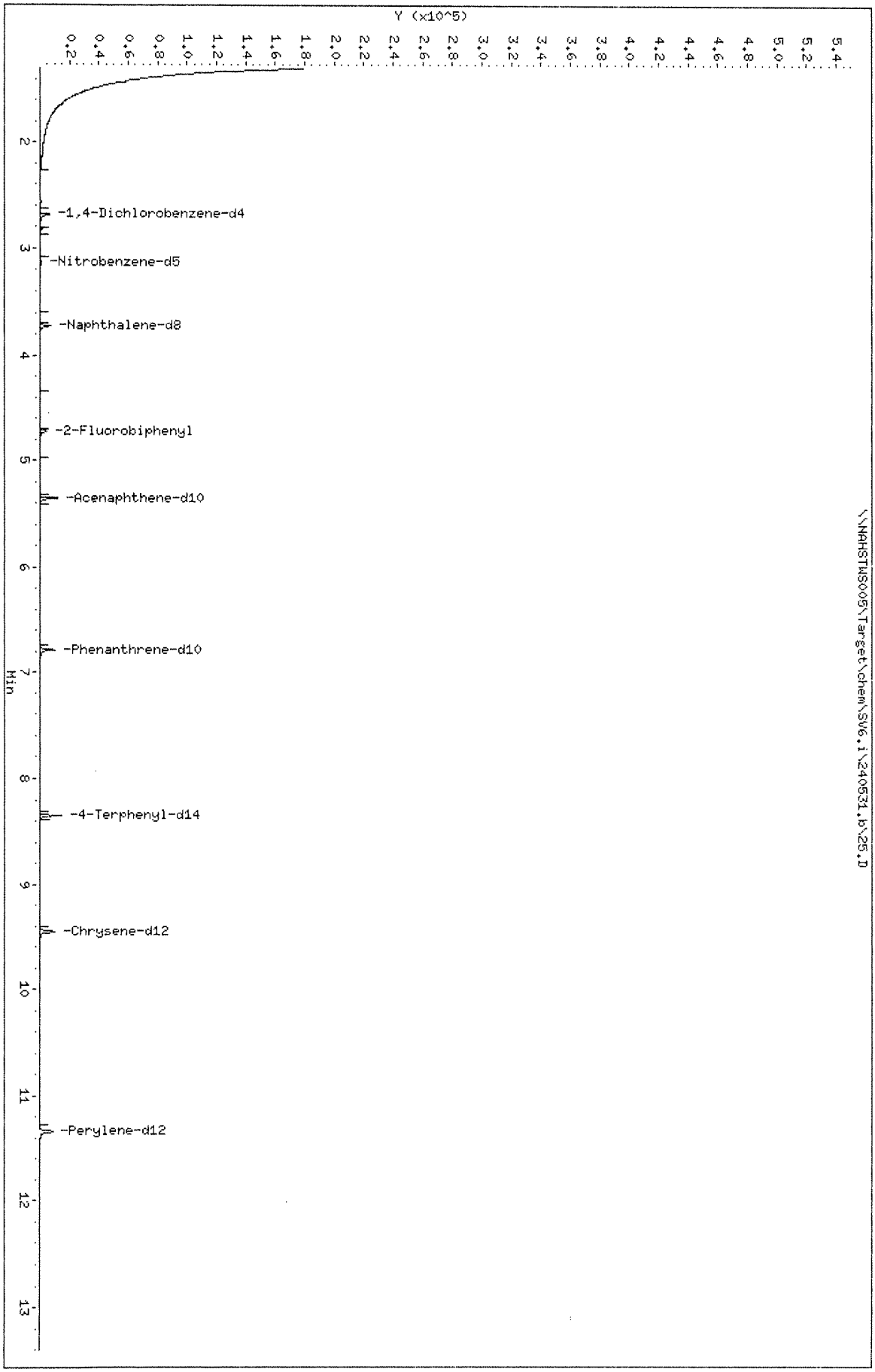
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	3055	0.10000		(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	9746	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.839)	1940	0.06631	0.06631	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	6294	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5914	0.06147	0.06147	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	12001	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	11105	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	13878	0.06135	0.06134	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	12467	0.10000		(M)
1 1,4-Dioxane	58	1.242	1.267	(0.462)	3243	0.49560	0.4956	(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\240531.b\25.D
Date : 31-MAY-2024 20:43
Client ID:
Sample Info: HS2405I669-02
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\240531.b\25.D

Date : 31-MAY-2024 20:43

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-02

Purge Volume: 1000.0

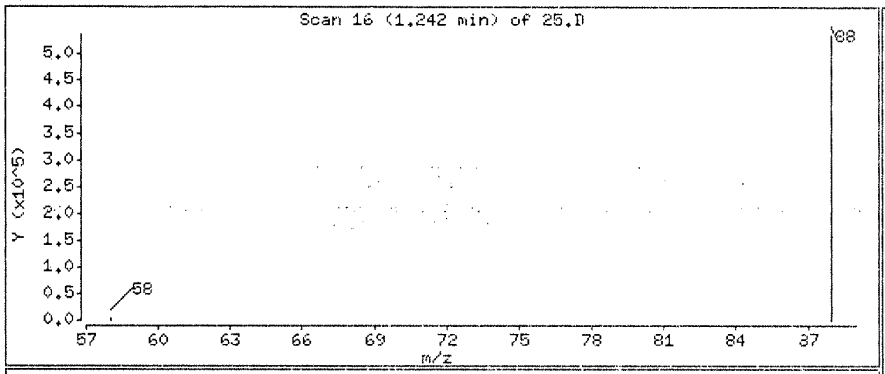
Operator: LG

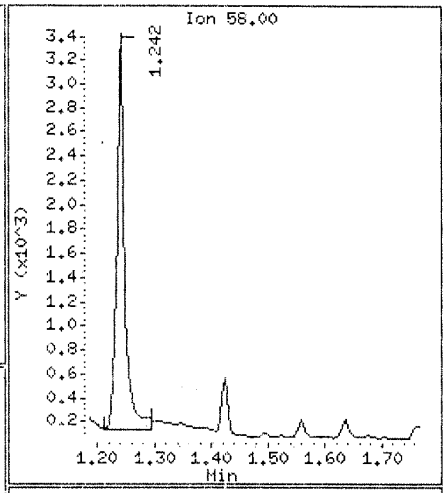
Column phase: RTX-5SIL MS

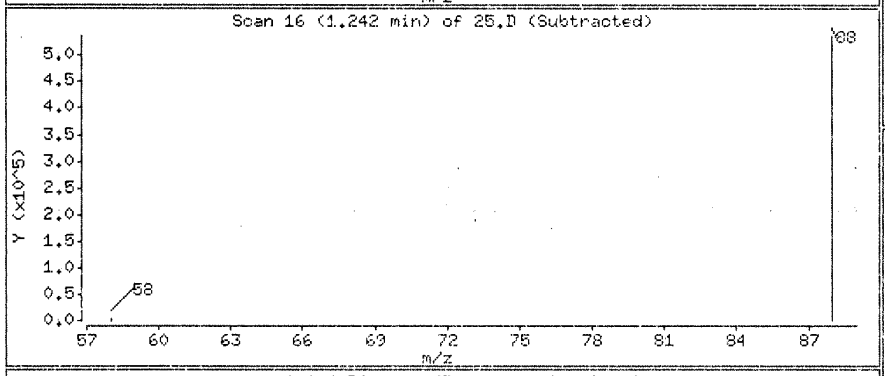
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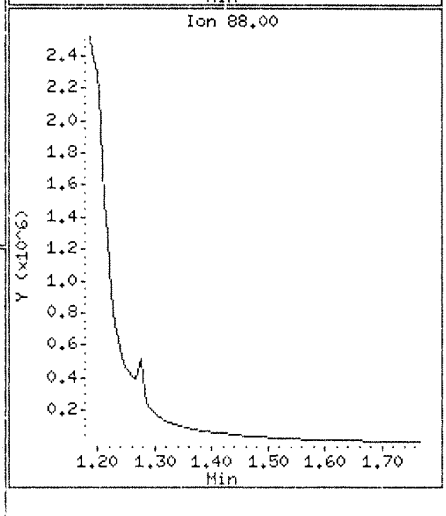
1 1,4-Dioxane

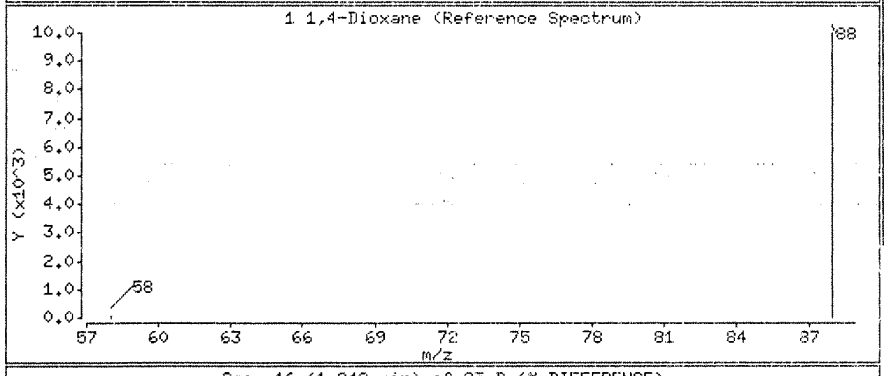
Concentration: 0.4956 ug/L

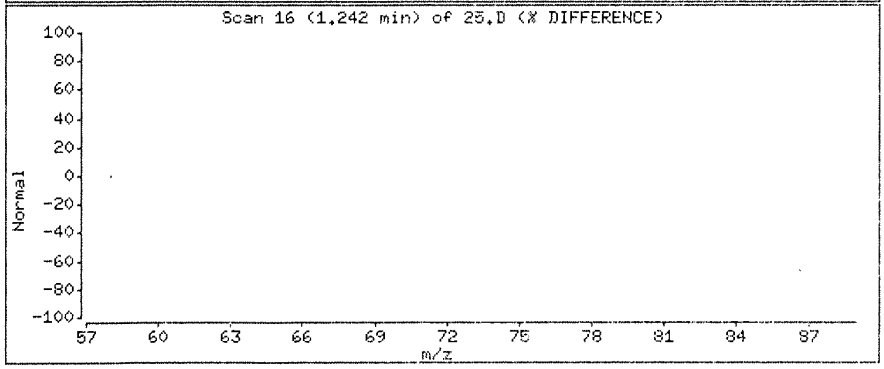










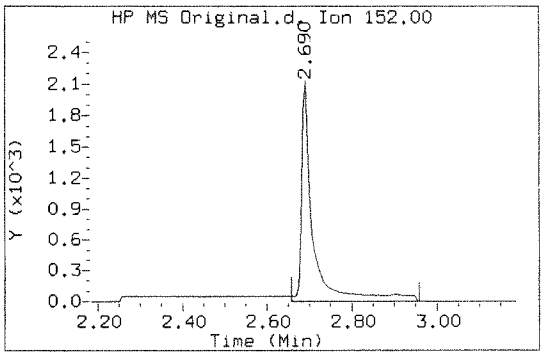


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LabSampID : HS24051669-02

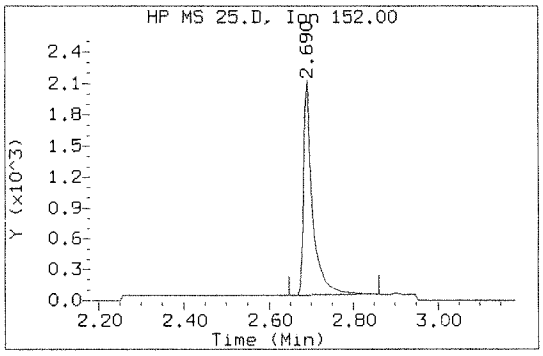
1,4-Dichlorobenzene-d4 (3855-82-1)

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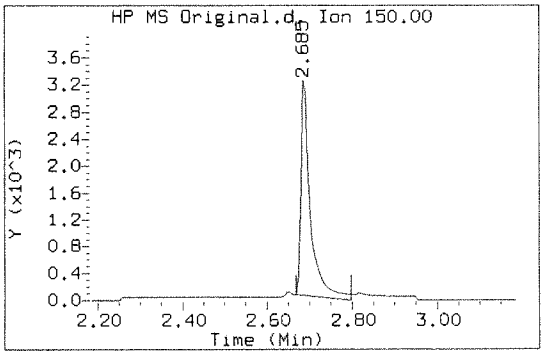
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HEIGHT
2128
31-May-2024
20:57
ALSHS
Server



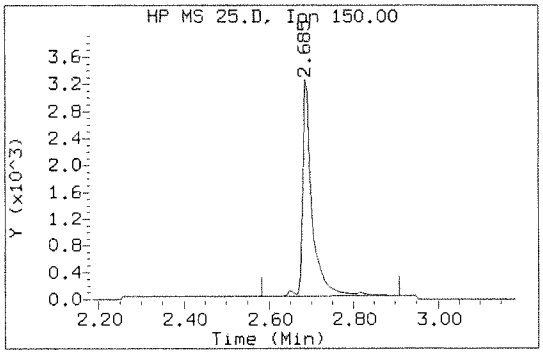
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152
AREA
3055
HEIGHT
2076
03-Jun-2024
10:40



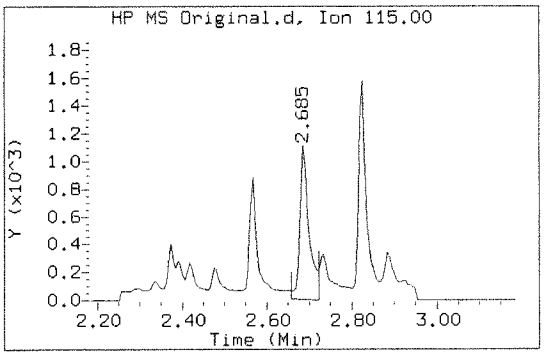
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MASS
150
AREA
4941
HEIGHT
3193
31-May-2024
20:57
ALSHS
Server



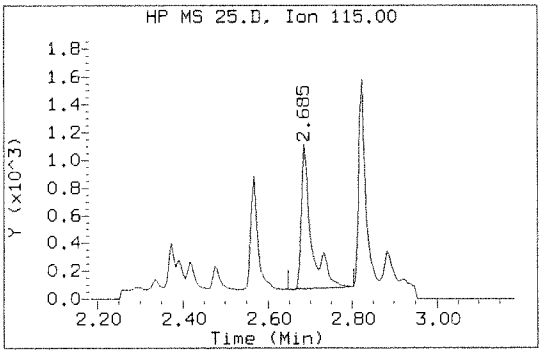
AFTER
MASS
150
AREA
5062
HEIGHT
3217
03-Jun-2024
10:40



BEFORE
MASS
115
AREA
1691
HEIGHT
1111
31-May-2024
20:57
ALSHS
Server



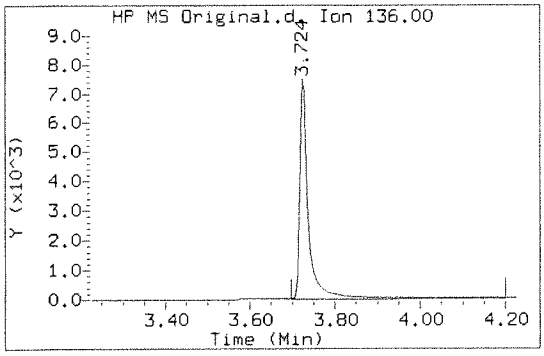
AFTER
MASS
115
AREA
1730
HEIGHT
1045
03-Jun-2024
10:40



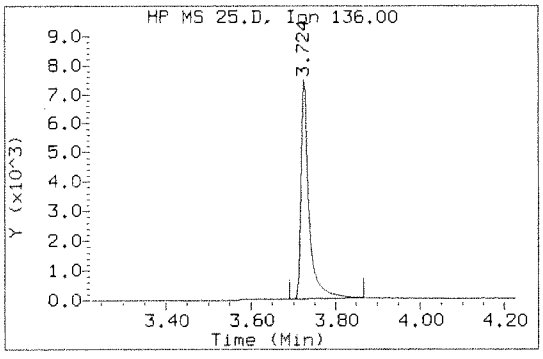
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11061
HEIGHT
7514
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
136
AREA
9746
HEIGHT
7470
03-Jun-2024
10:40

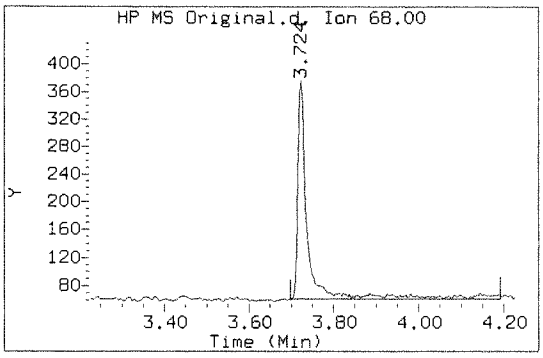


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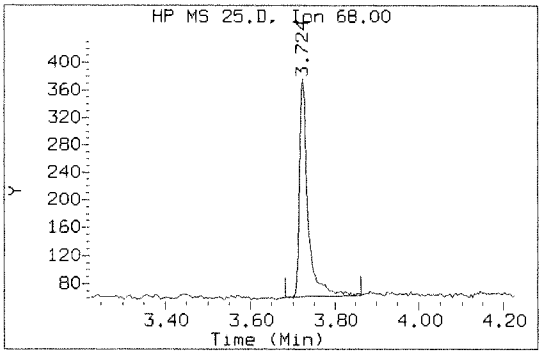
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
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AREA
502
HEIGHT
314
31-May-2024
20:57
ALSHS
Server



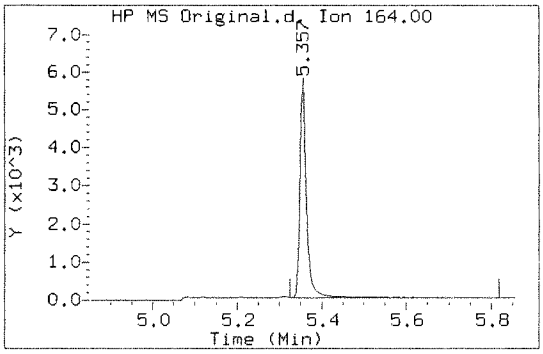
AFTER
MASS
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AREA
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HEIGHT
313
03-Jun-2024
10:40



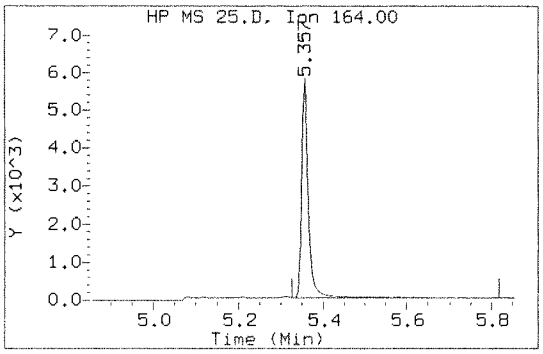
Acenaphthene-d10 (15067-26-2)

Reason Code:

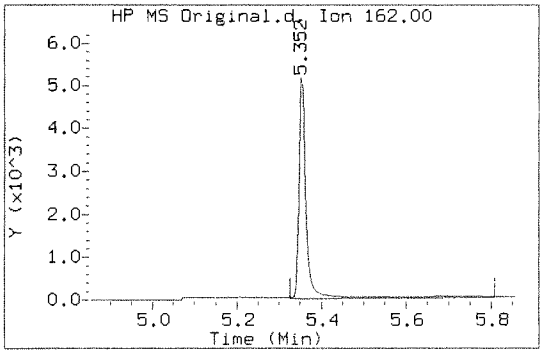
BEFORE
MASS
164
AREA
6294
HEIGHT
5772
31-May-2024
20:57
ALSHS
Server



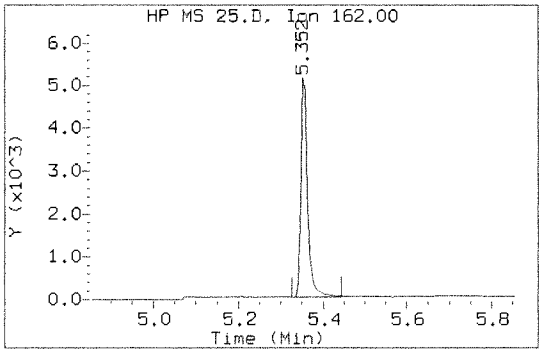
AFTER
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AREA
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HEIGHT
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03-Jun-2024
10:40



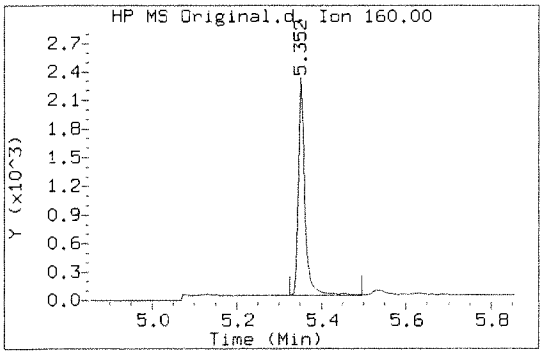
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AREA
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HEIGHT
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31-May-2024
20:57
ALSHS
Server



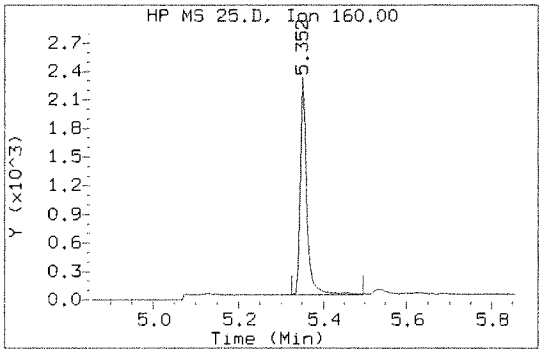
AFTER
MASS
162
AREA
5677
HEIGHT
5130
03-Jun-2024
10:40



BEFORE
MASS
160
AREA
2415
HEIGHT
2279
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
160
AREA
2415
HEIGHT
2279
03-Jun-2024
10:40

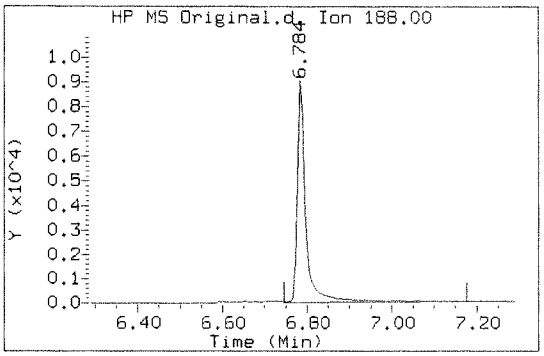


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
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LabSampID : HS24051669-02

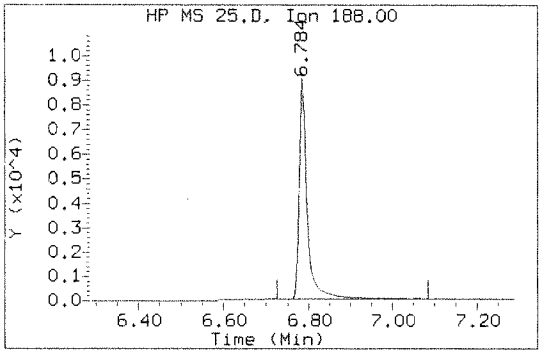
Phenanthrene-d10 (1517-22-2)

Reason Code:

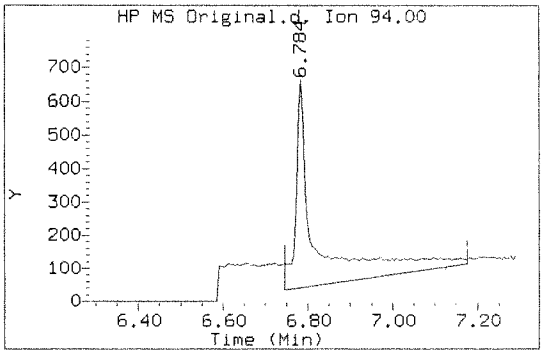
BEFORE
MASS
188
AREA
12966
HEIGHT
9046
31-May-2024
20:57
ALSHS
Server



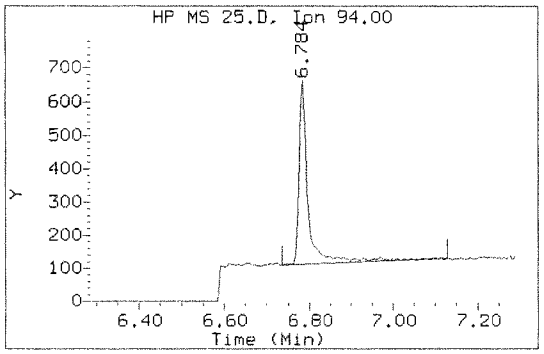
AFTER
MASS
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AREA
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HEIGHT
8998
03-Jun-2024
10:40



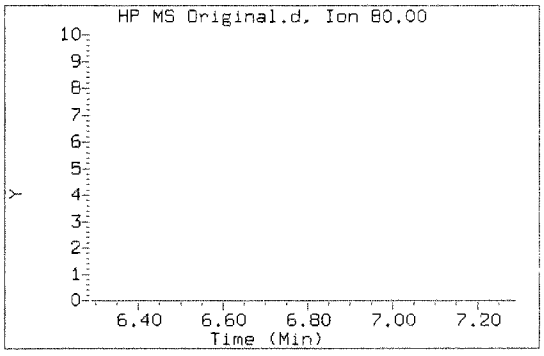
BEFORE
MASS
94
AREA
2038
HEIGHT
622
31-May-2024
20:57
ALSHS
Server



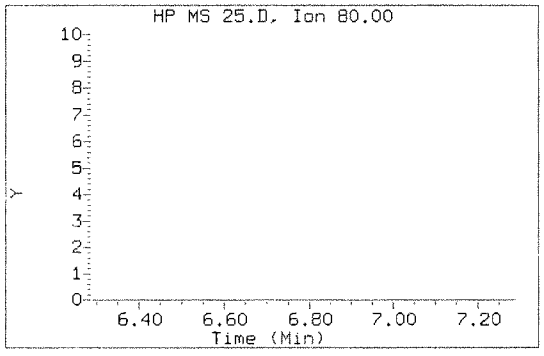
AFTER
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AREA
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HEIGHT
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03-Jun-2024
10:40



BEFORE
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AREA
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HEIGHT
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31-May-2024
20:57
ALSHS
Server



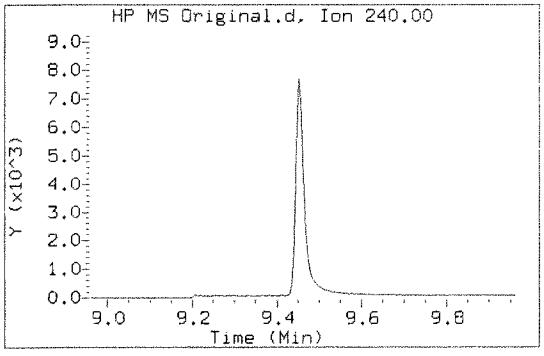
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03-Jun-2024
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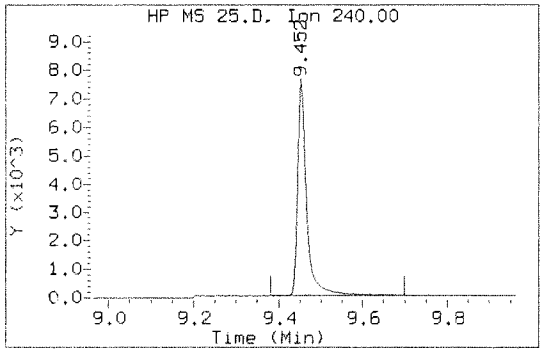
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
0
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
240
AREA
11105
HEIGHT
7630
03-Jun-2024
10:40

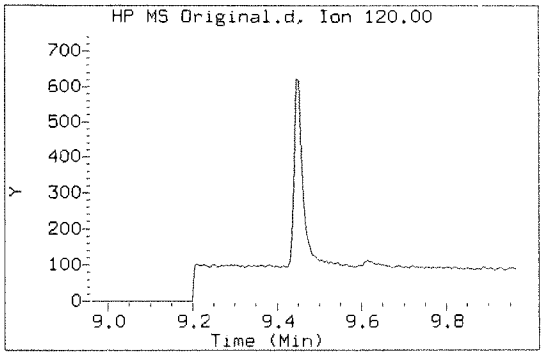


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
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LabSampID : HS24051669-02

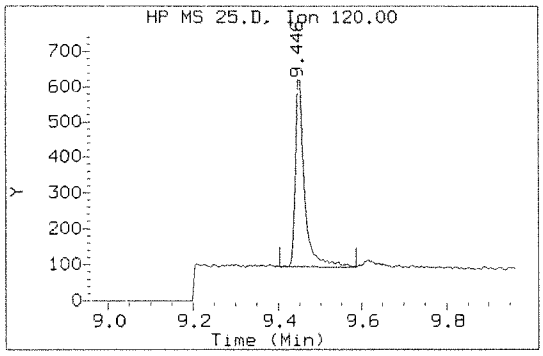
Chrysene-d12 (1719-03-5)

Reason Code:

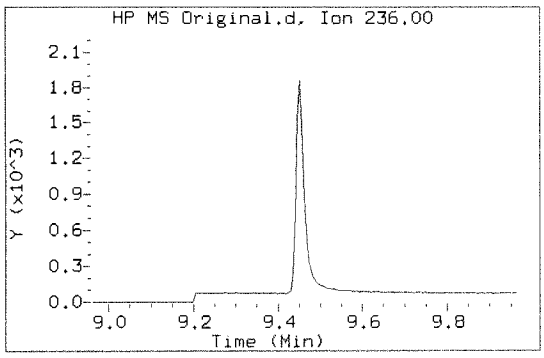
BEFORE
MASS
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AREA
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HEIGHT
0
31-May-2024
20:57
ALSHS
Server



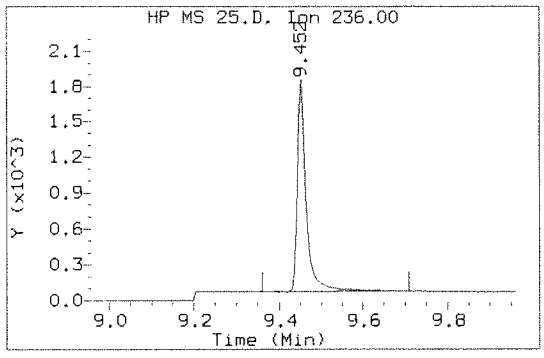
AFTER
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AREA
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HEIGHT
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03-Jun-2024
10:40



BEFORE
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236
AREA
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HEIGHT
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31-May-2024
20:57
ALSHS
Server



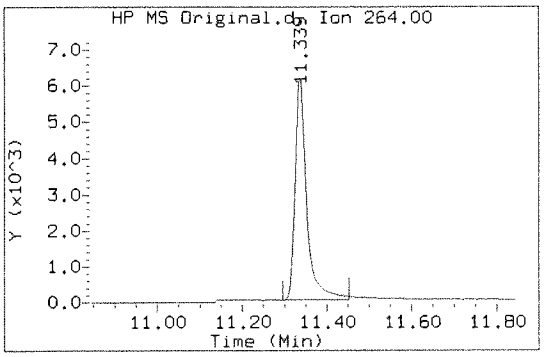
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AREA
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HEIGHT
1784
03-Jun-2024
10:40



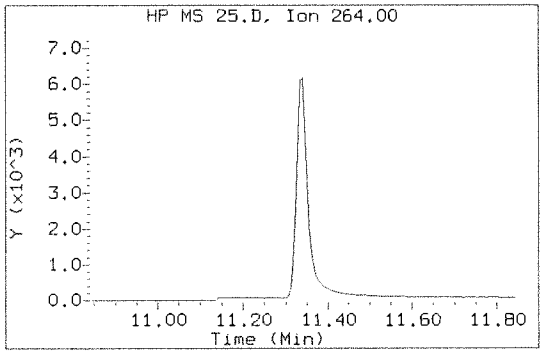
Perylene-d12 (1520-96-3)

Reason Code:

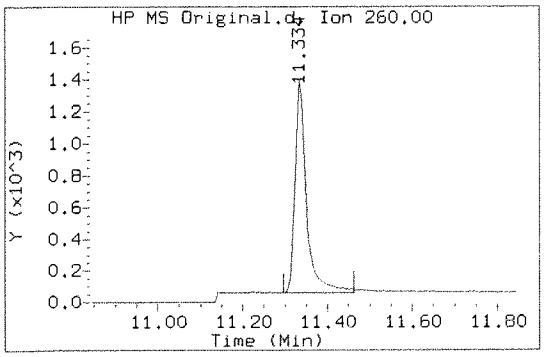
BEFORE
MASS
264
AREA
11826
HEIGHT
6100
31-May-2024
20:57
ALSHS
Server



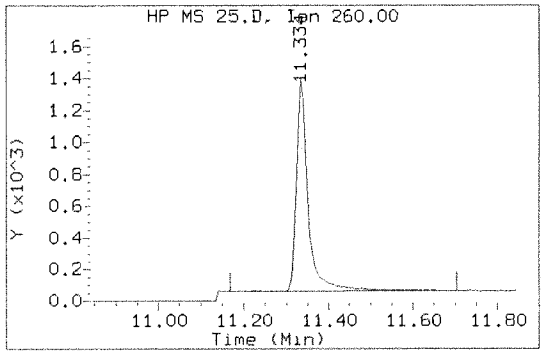
AFTER
MASS
264
AREA
12467
HEIGHT
6098
03-Jun-2024
10:40



BEFORE
MASS
260
AREA
2496
HEIGHT
1334
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
260
AREA
2560
HEIGHT
1333
03-Jun-2024
10:40

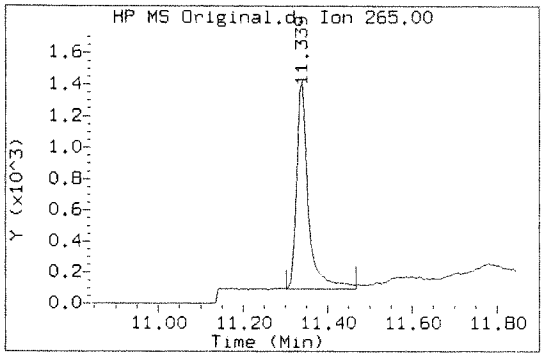


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Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

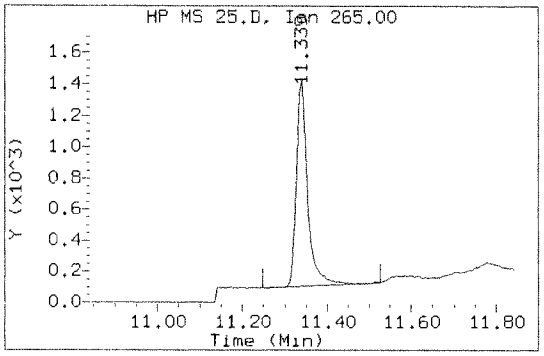
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
1329
31-May-2024
20:57
ALSHS
Server



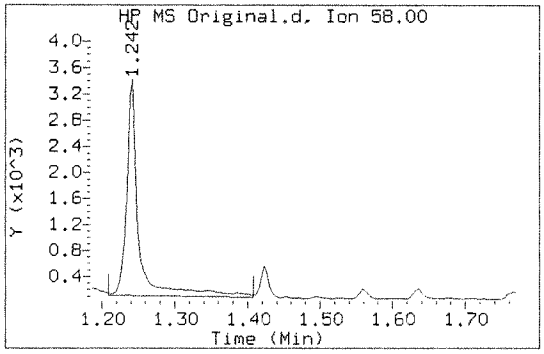
AFTER
MASS
265
AREA
2381
HEIGHT
1317
03-Jun-2024
10:40



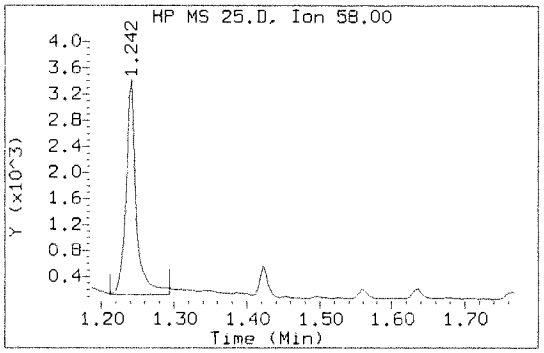
1,4-Dioxane ()

Reason Code:

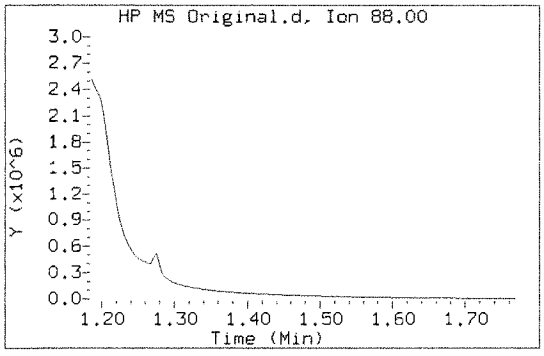
BEFORE
MASS
58
AREA
3820
HEIGHT
3309
31-May-2024
20:57
ALSHS
Server



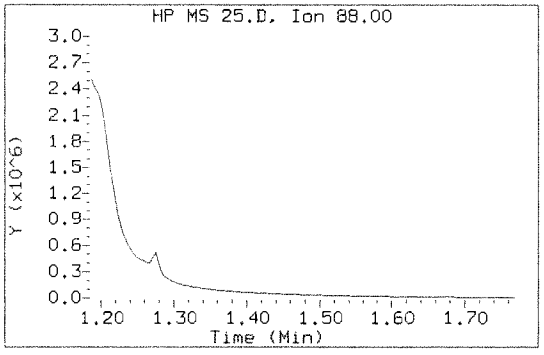
AFTER
MASS
58
AREA
3243
HEIGHT
3292
03-Jun-2024
10:40



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
20:57
ALSHS
Server



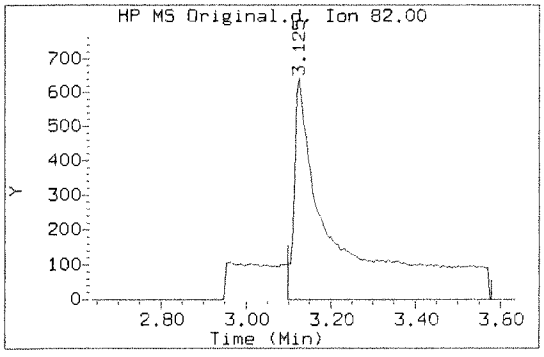
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
10:40



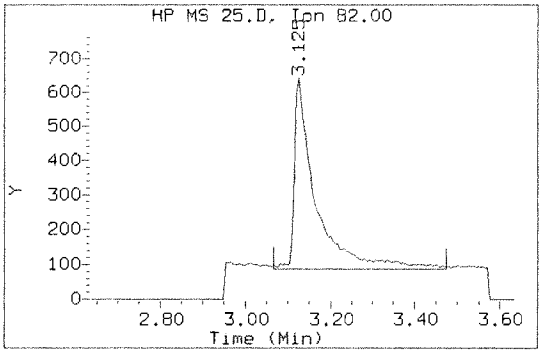
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
4436
HEIGHT
643
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
82
AREA
1940
HEIGHT
556
03-Jun-2024
10:40

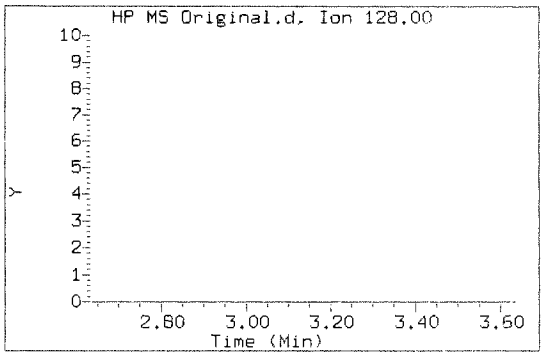


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

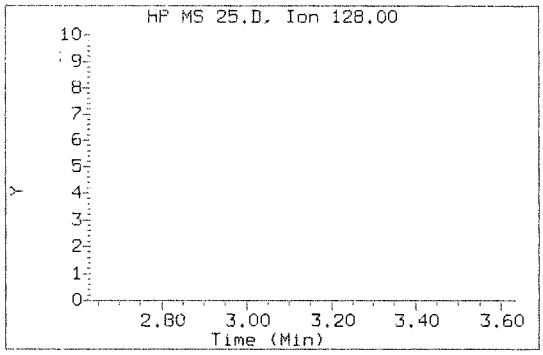
Nitrobenzene-d5 (4165-60-0)

Reason Code:

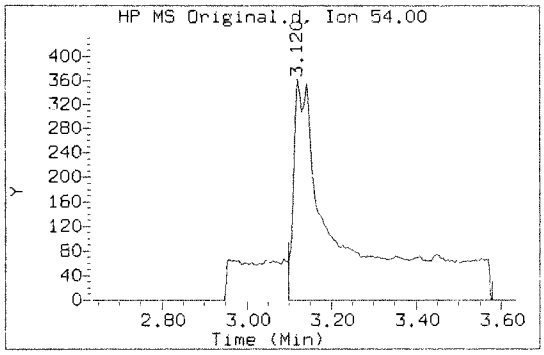
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
20:57
ALSHS
Server



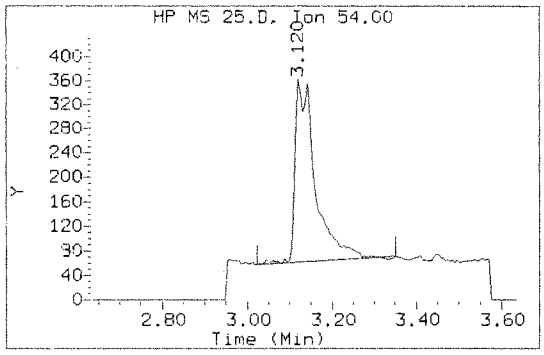
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:40



BEFORE
MASS
54
AREA
2851
HEIGHT
363
31-May-2024
20:57
ALSHS
Server



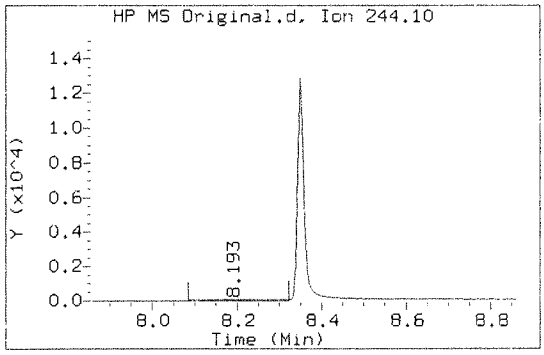
AFTER
MASS
54
AREA
980
HEIGHT
301
03-Jun-2024
10:40



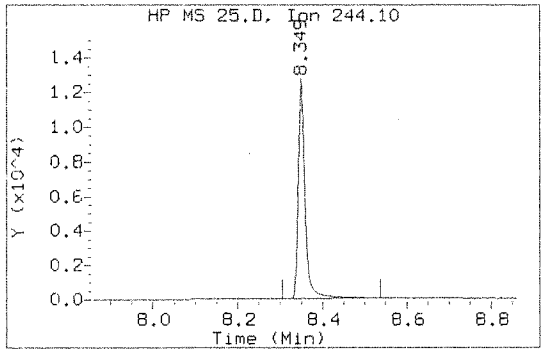
4-Terphenyl-d14 (1718-51-0)

Reason Code:

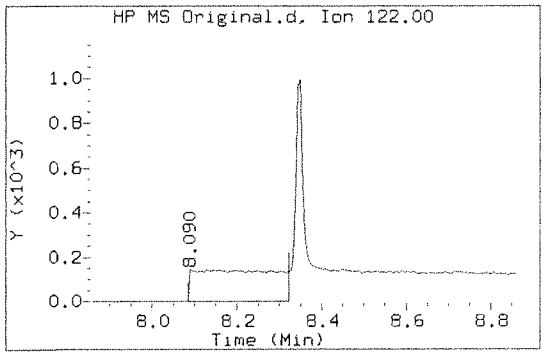
BEFORE
MASS
244.1
AREA
1225
HEIGHT
90
31-May-2024
20:57
ALSHS
Server



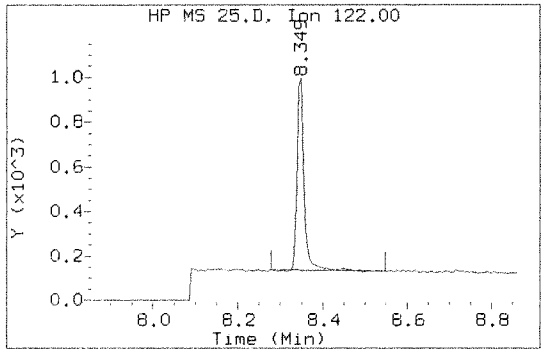
AFTER
MASS
244.1
AREA
13878
HEIGHT
12762
03-Jun-2024
10:40



BEFORE
MASS
122
AREA
1931
HEIGHT
144
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
122
AREA
990
HEIGHT
860
03-Jun-2024
10:40



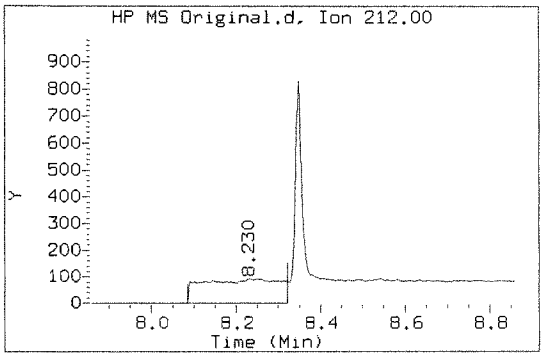
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

4-Terphenyl-d14 (1718-51-0)

Reason Code:

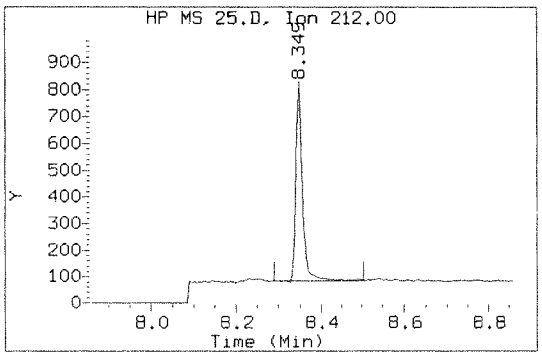
BEFORE

MASS
212
AREA
1181
HEIGHT
93
31-May-2024
20:57
ALSHS
Server



AFTER

MASS
212
AREA
799
HEIGHT
745
03-Jun-2024
10:40

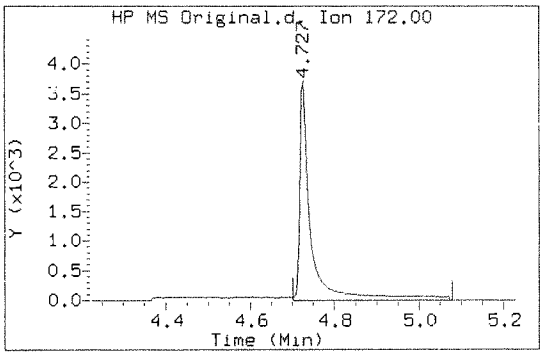


2-Fluorobiphenyl (321-60-8)

Reason Code:

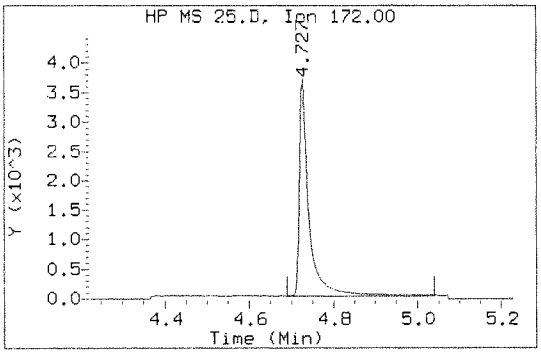
BEFORE

MASS
172
AREA
6917
HEIGHT
3722
31-May-2024
20:57
ALSHS
Server



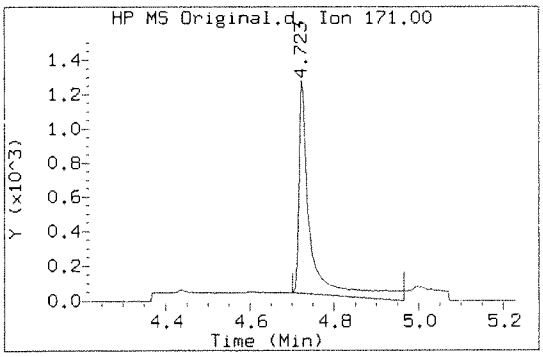
AFTER

MASS
172
AREA
5914
HEIGHT
3679
03-Jun-2024
10:40



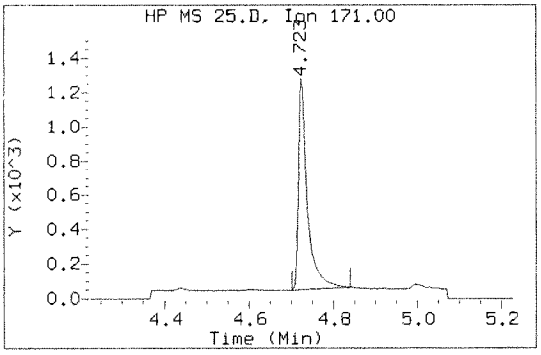
BEFORE

MASS
171
AREA
2319
HEIGHT
1236
31-May-2024
20:57
ALSHS
Server



AFTER

MASS
171
AREA
1774
HEIGHT
1229
03-Jun-2024
10:40



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Lab Smp Id: HS24051669-03
Inj Date : 31-MAY-2024 21:00
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 26
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

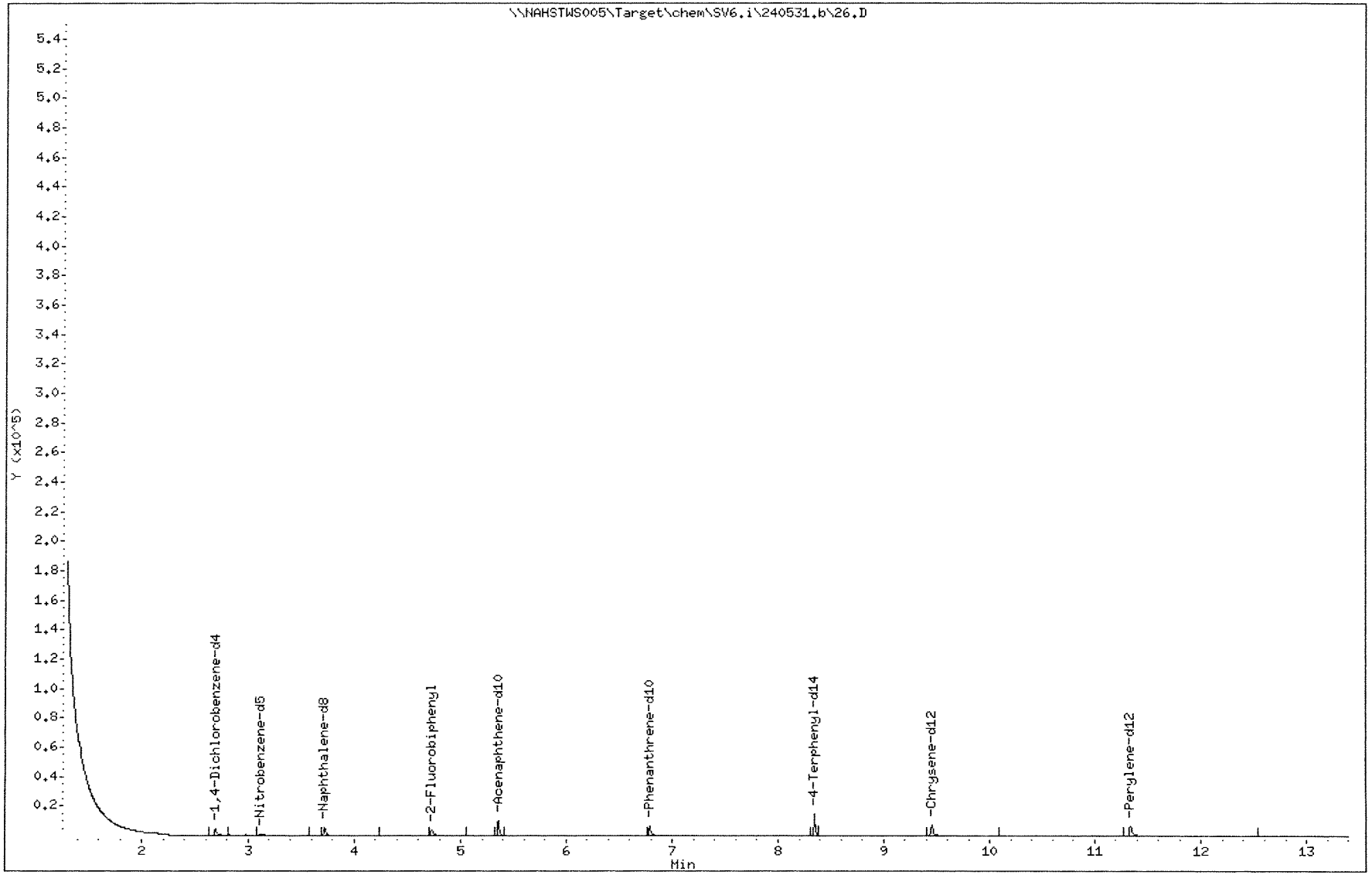
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2571	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	8429	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.119	3.135	(0.837)	1592	0.06291	0.06291	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	5248	0.10000		
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5158	0.06430	0.06430	(M)
* 126 Phenanthrene-d10	188	6.784	6.789	(1.000)	10588	0.10000		
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	9292	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.907)	14961	0.07904	0.07904	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	9828	0.10000		
1 1,4-Dioxane	58	1.249	1.267	(0.464)	128	0.02324	0.02324	(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\240531.b\26.D
Date : 31-MAY-2024 21:00
Client ID:
Sample Info: HS24051669-03
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\240531.b\26.D

Date : 31-MAY-2024 21:00

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-03

Purge Volume: 1000.0

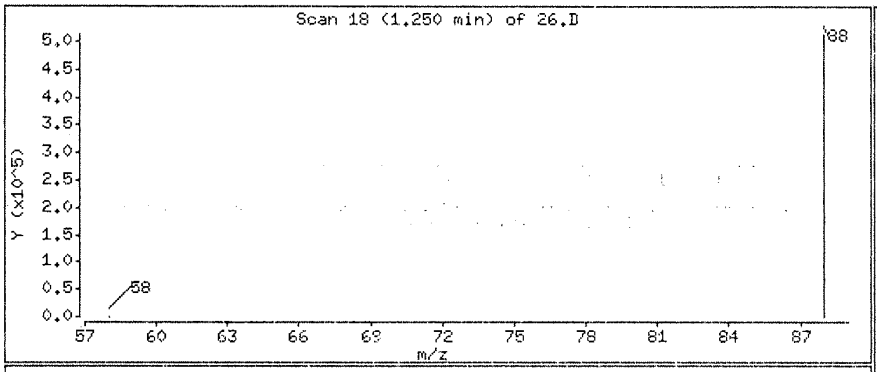
Operator: LG

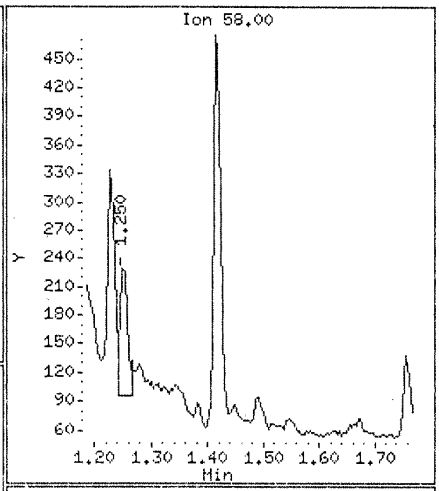
Column phase: RTX-5SIL MS

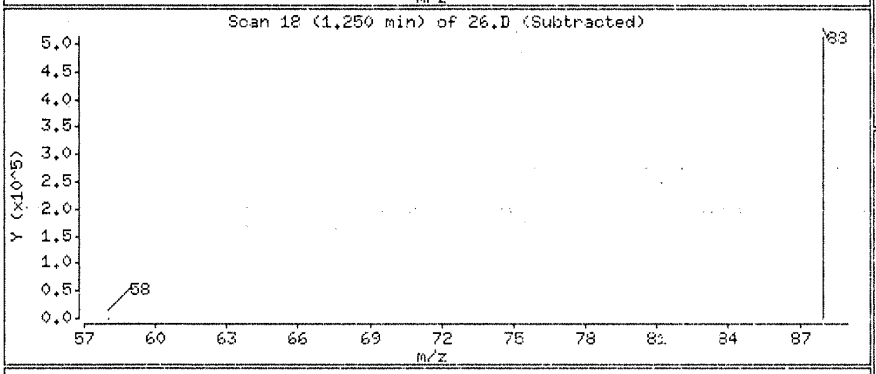
Column diameter: 0.28

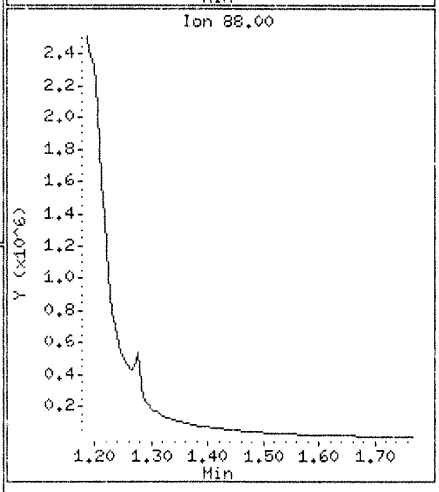
1 1,4-Dioxane

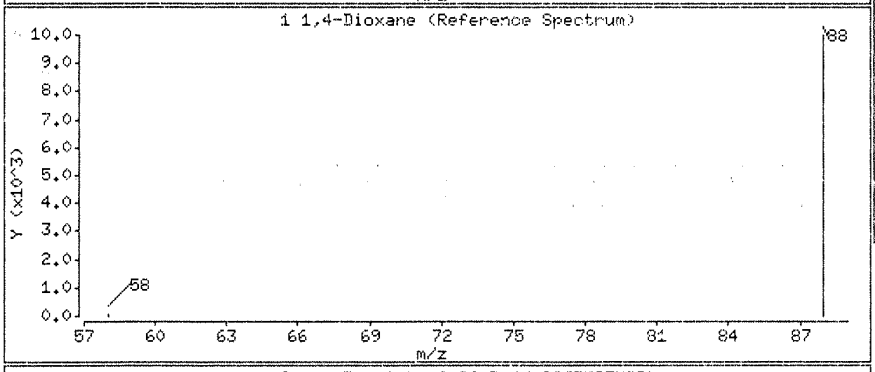
Concentration: 0.02324 ug/L

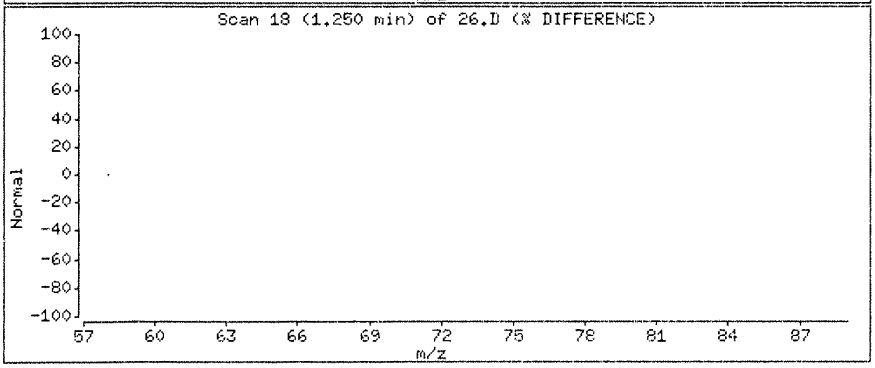










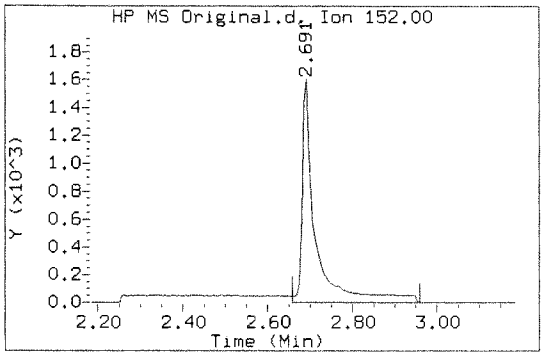


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

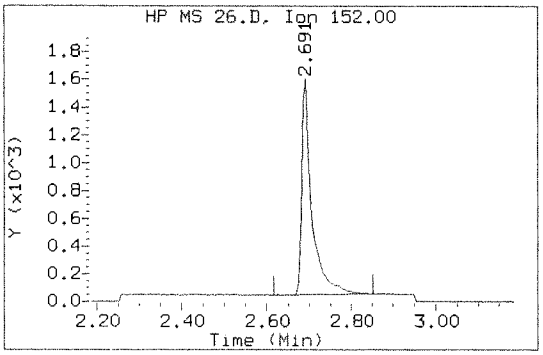
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

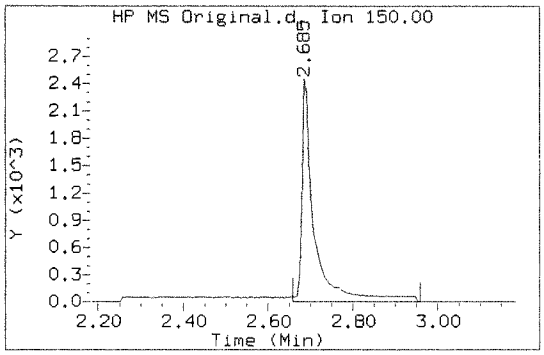
BEFORE
MASS 152
AREA 3514
HEIGHT 1606
31-May-2024 21:12
ALSHS Server



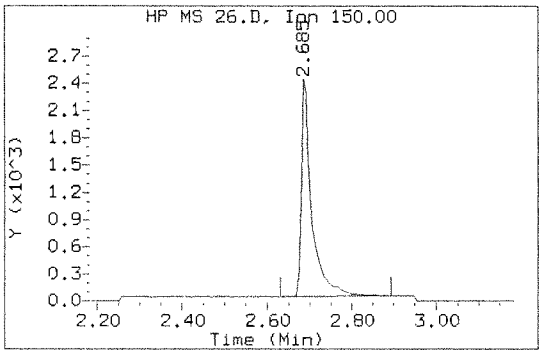
AFTER
MASS 152
AREA 2571
HEIGHT 1555
03-Jun-2024 11:24



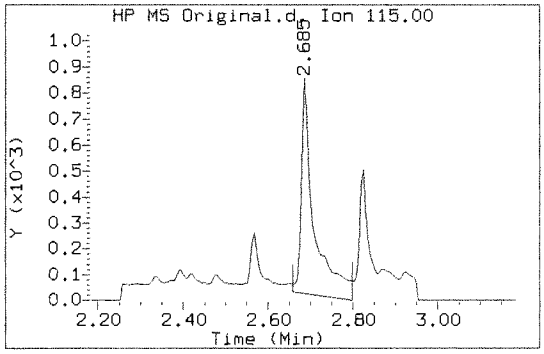
BEFORE
MASS 150
AREA 5006
HEIGHT 2451
31-May-2024 21:12
ALSHS Server



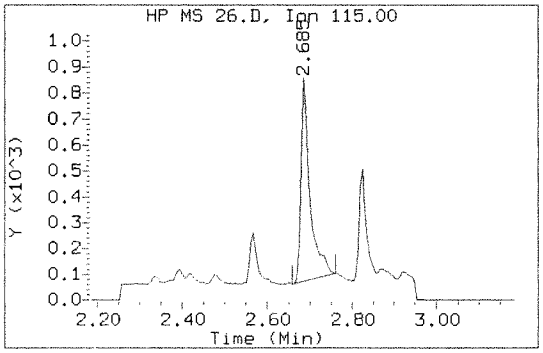
AFTER
MASS 150
AREA 4059
HEIGHT 2401
03-Jun-2024 11:24



BEFORE
MASS 115
AREA 1737
HEIGHT 830
31-May-2024 21:12
ALSHS Server



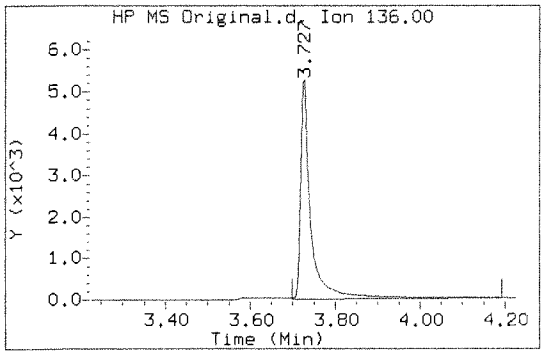
AFTER
MASS 115
AREA 1150
HEIGHT 783
03-Jun-2024 11:24



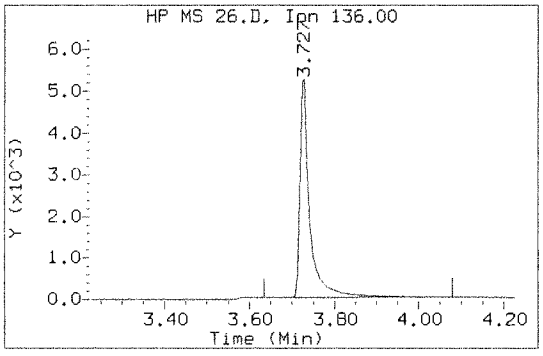
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 9185
HEIGHT 5265
31-May-2024 21:12
ALSHS Server



AFTER
MASS 136
AREA 8429
HEIGHT 5228
03-Jun-2024 11:24

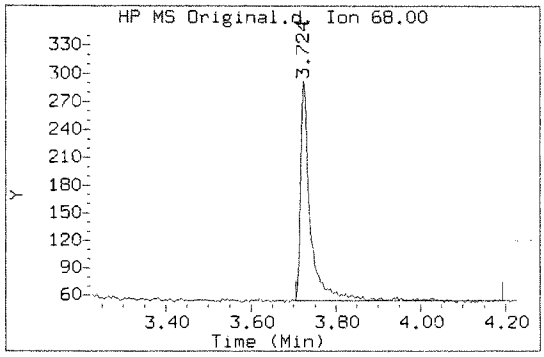


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

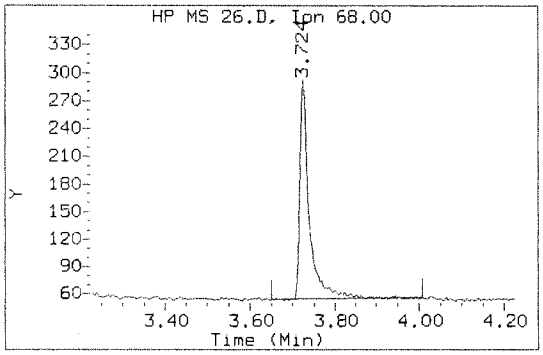
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
389
HEIGHT
238
31-May-2024
21:12
ALSHS
Server



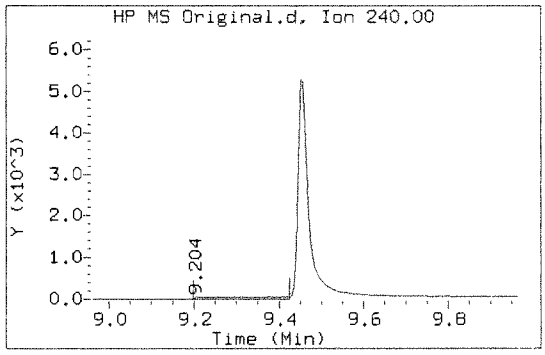
AFTER
MASS
68
AREA
367
HEIGHT
237
03-Jun-2024
11:24



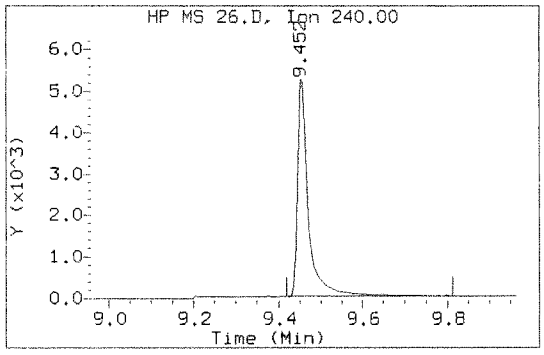
Chrysene-d12 (1719-03-5)

Reason Code:

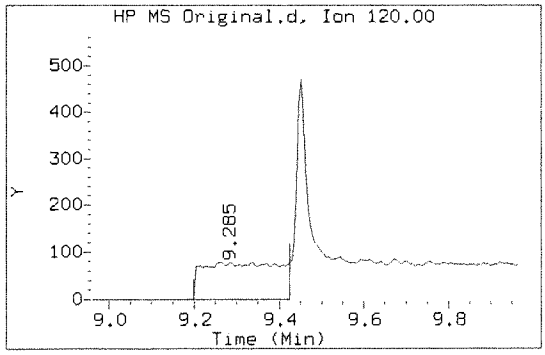
BEFORE
MASS
240
AREA
707
HEIGHT
54
31-May-2024
21:12
ALSHS
Server



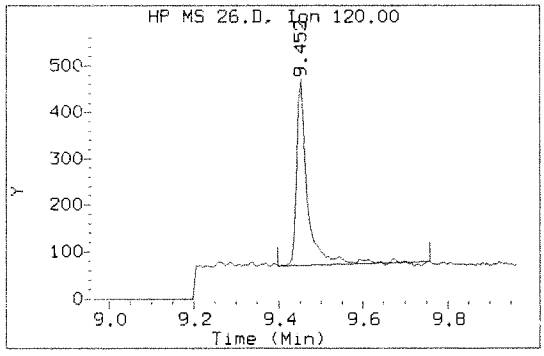
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MASS
240
AREA
9292
HEIGHT
5231
03-Jun-2024
11:24



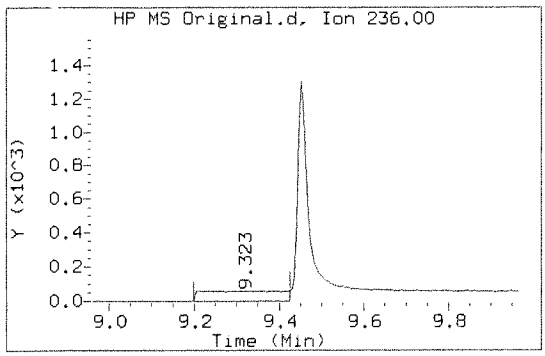
BEFORE
MASS
120
AREA
977
HEIGHT
78
31-May-2024
21:12
ALSHS
Server



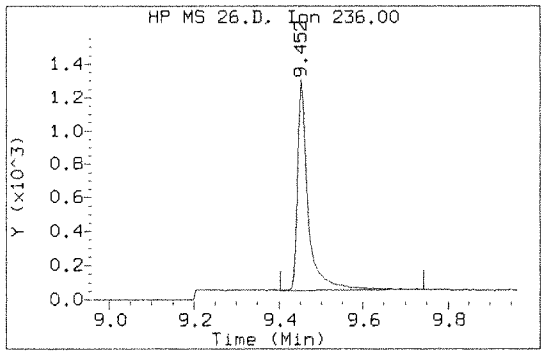
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MASS
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AREA
681
HEIGHT
399
03-Jun-2024
11:24



BEFORE
MASS
236
AREA
757
HEIGHT
58
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
236
AREA
2158
HEIGHT
1253
03-Jun-2024
11:24

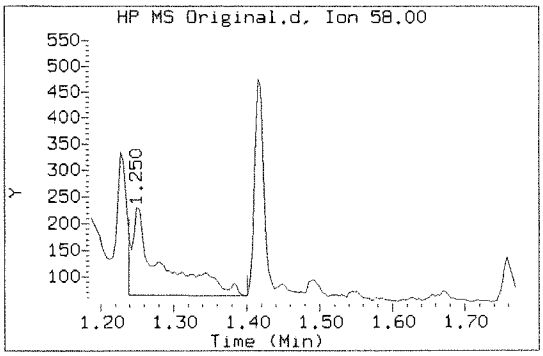


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InstruID : SV6.i
LabSampID : HS24051669-03

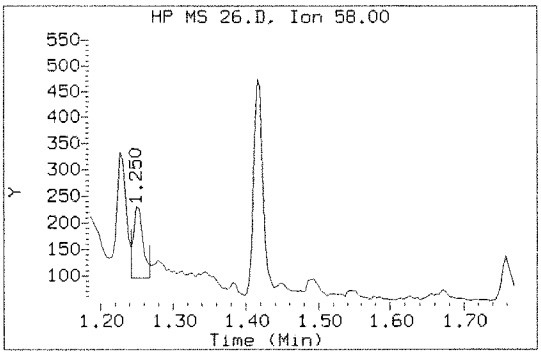
1,4-Dioxane ()

Reason Code:

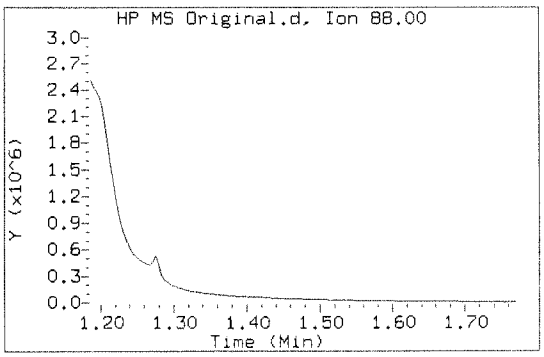
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AREA
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HEIGHT
165
31-May-2024
21:12
ALSHS
Server



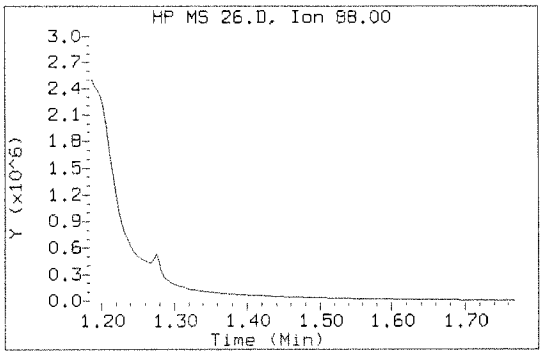
AFTER
MASS
58
AREA
128
HEIGHT
134
03-Jun-2024
11:24



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
21:12
ALSHS
Server



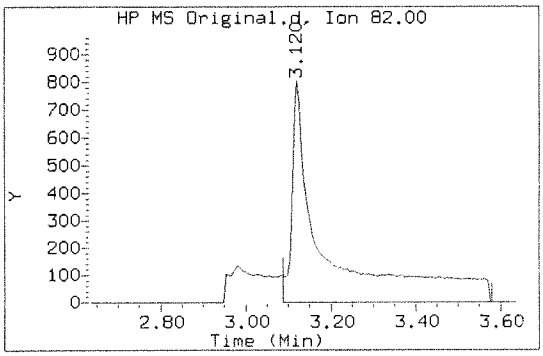
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AREA
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HEIGHT
0
03-Jun-2024
11:24



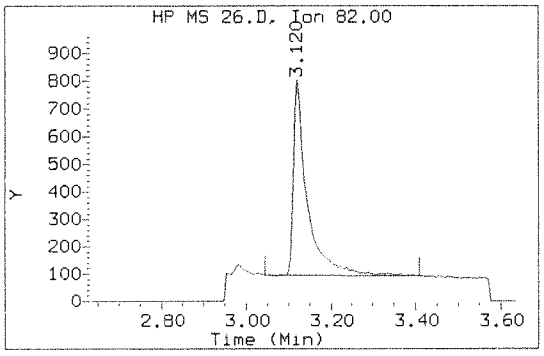
Nitrobenzene-d5 (4165-60-0)

Reason Code:

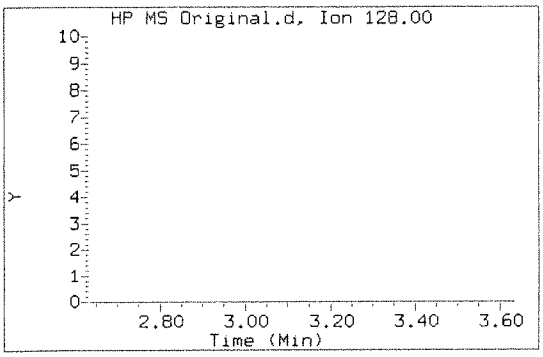
BEFORE
MASS
82
AREA
4287
HEIGHT
805
31-May-2024
21:12
ALSHS
Server



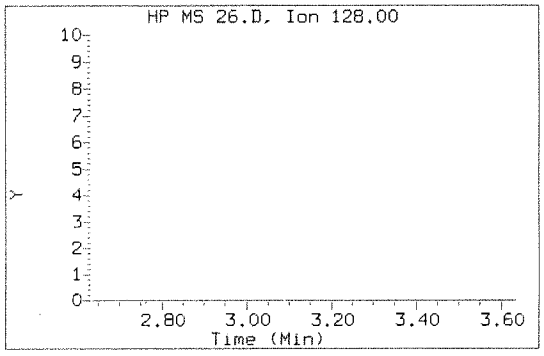
AFTER
MASS
82
AREA
1592
HEIGHT
709
03-Jun-2024
11:24



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:24

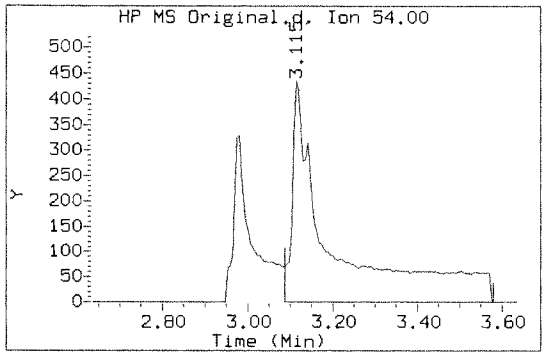


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Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

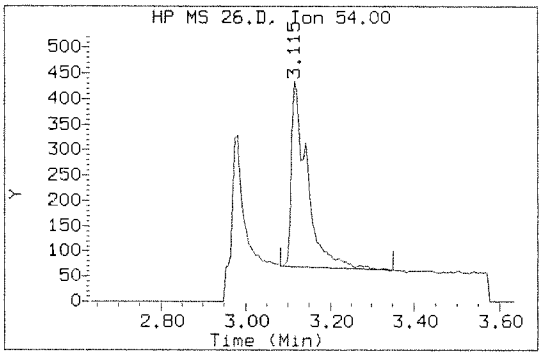
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2785
HEIGHT
435
31-May-2024
21:12
ALSHS
Server



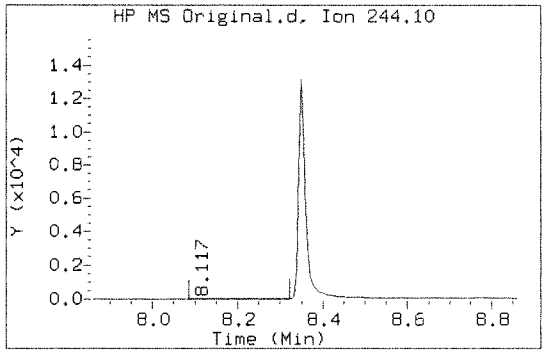
AFTER
MASS
54
AREA
939
HEIGHT
364
03-Jun-2024
11:24



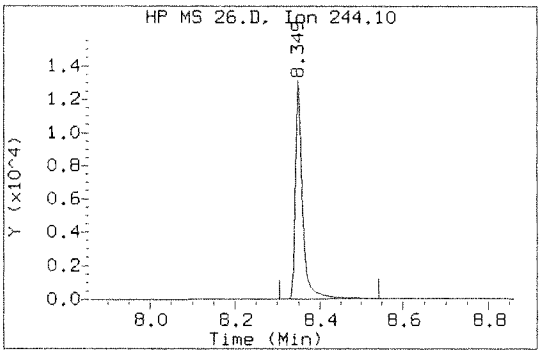
4-Terphenyl-d14 (1718-51-0)

Reason Code:

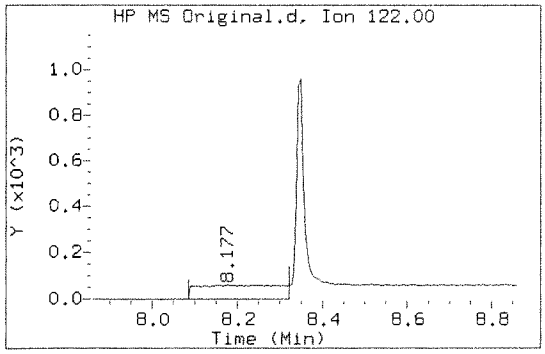
BEFORE
MASS
244.1
AREA
702
HEIGHT
51
31-May-2024
21:12
ALSHS
Server



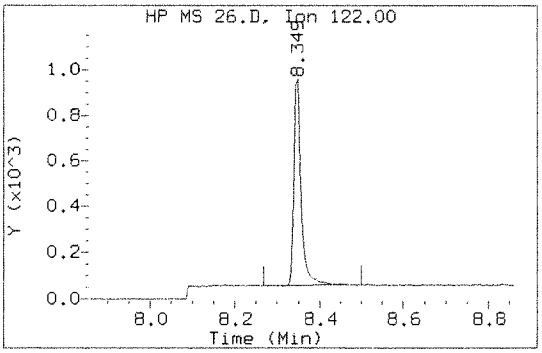
AFTER
MASS
244.1
AREA
14961
HEIGHT
13119
03-Jun-2024
11:24



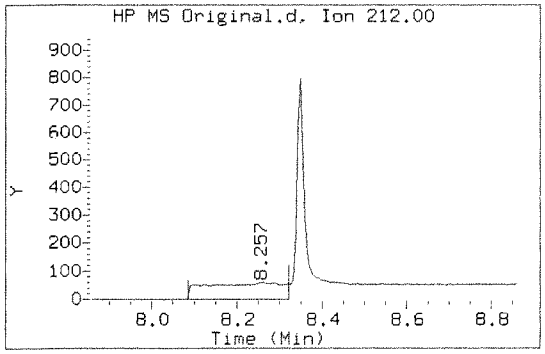
BEFORE
MASS
122
AREA
805
HEIGHT
60
31-May-2024
21:12
ALSHS
Server



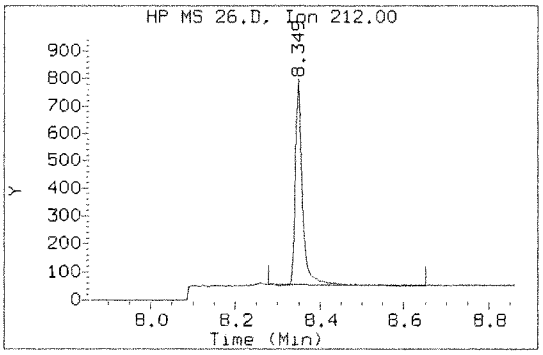
AFTER
MASS
122
AREA
1076
HEIGHT
901
03-Jun-2024
11:24



BEFORE
MASS
212
AREA
738
HEIGHT
59
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
212
AREA
857
HEIGHT
743
03-Jun-2024
11:24

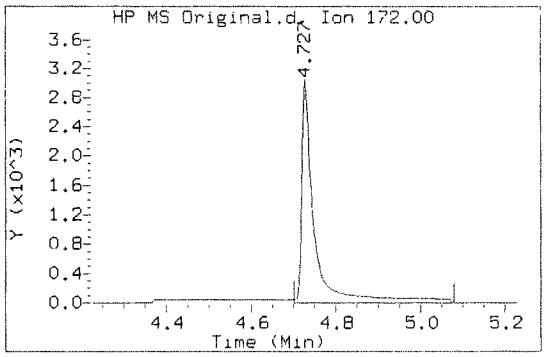


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LabSampID : HS24051669-03

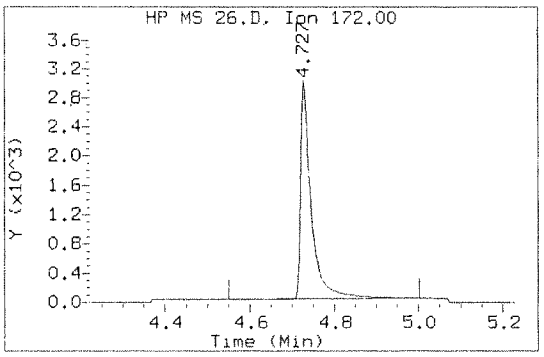
2-Fluorobiphenyl (321-60-8)

Reason Code:

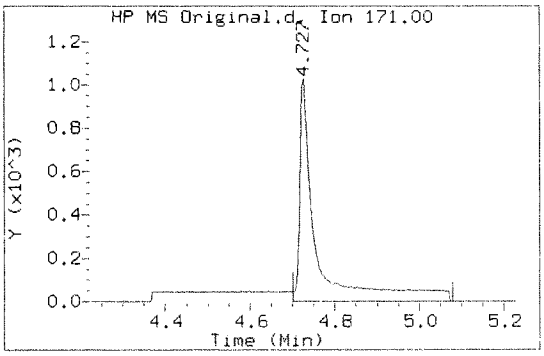
BEFORE
MASS
172
AREA
6449
HEIGHT
3050
31-May-2024
21:12
ALSHS
Server



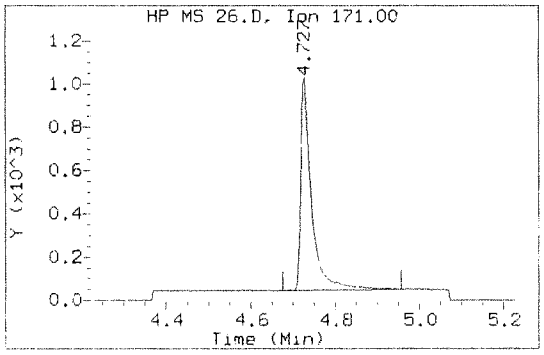
AFTER
MASS
172
AREA
5158
HEIGHT
2998
03-Jun-2024
11:24



BEFORE
MASS
171
AREA
2846
HEIGHT
1028
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
171
AREA
1731
HEIGHT
981
03-Jun-2024
11:24



HS24051276-MSVOA-SW8260

ALS WO# HS24051276

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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.

Project: Groundwater Treatment Plant Quarterly Effluent Samples

Workorder: HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_052124	Collected	Received	Matrix	Basis
HS24051276-01	05/21/24 13:00	05/22/24 10:15	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	05/24/24 17:10	VOA9_467761	U052414.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Quarterly Effluent Samples

Workorder: HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_052124	Collected	Received	Matrix	Basis
HS24051276-01	05/21/24 13:00	05/22/24 10:15	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	05/24/24 17:10	VOA9_467761	U052414.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
cis-1,2-Dichloroethene	ug/L	1.8		0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:10	VOA9_467761	U052414.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051276-03	05/21/24 00:00	05/22/24 10:15	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	05/24/24 16:05	VOA9_467761	U052411.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Quarterly Effluent Samples

Workorder: HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051276-03	05/21/24 00:00	05/22/24 10:15	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	05/24/24 16:05	VOA9_467761	U052411.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Trichlorofluoromethane	ug/L	2.4		0.30	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:05	VOA9_467761	U052411.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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: Groundwater Treatment Plant Quarterly Effluent Samples
Workorder: HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

LH18/24-SP650_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051276-01	Water	05/24/24 17:10	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052414.D	57	50	114		81-118
4-Bromofluorobenzene	U052414.D	56	50	112		85-114
Dibromofluoromethane	U052414.D	57	50	114		80-119
Toluene-d8	U052414.D	57	50	113		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051276-03	Water	05/24/24 16:05	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052411.D	58	50	117		81-118
4-Bromofluorobenzene	U052411.D	56	50	113		85-114
Dibromofluoromethane	U052411.D	56	50	113		80-119
Toluene-d8	U052411.D	57	50	114		89-112

VBLKW-240524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240524	Aqueous	05/24/24 14:18	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052406.D	57.86	50	116		81-118
4-Bromofluorobenzene	U052406.D	55.8	50	112		85-114
Dibromofluoromethane	U052406.D	54.71	50	109		80-119
Toluene-d8	U052406.D	55.64	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Workorder: HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

VLCSDW-240524

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSDW-240524	Aqueous	05/24/24 13:35	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052404.D	56.48	50	113		81-118
4-Bromofluorobenzene	U052404.D	56.91	50	114		85-114
Dibromofluoromethane	U052404.D	56.62	50	113		80-119
Toluene-d8	U052404.D	55.89	50	112		89-112

VLCSW-240524

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSW-240524	Aqueous	05/24/24 13:13	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052403.D	55.24	50	110		81-118
4-Bromofluorobenzene	U052403.D	56.96	50	114		85-114
Dibromofluoromethane	U052403.D	55.22	50	110		80-119
Toluene-d8	U052403.D	55.42	50	111		89-112

VSTD050

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VSTD050	Aqueous	05/24/24 12:52	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052402.D	55.81	50	112		80-120
4-Bromofluorobenzene	U052402.D	59.11	50	118		80-120
Dibromofluoromethane	U052402.D	56.14	50	112		80-120
Toluene-d8	U052402.D	59.33	50	119		80-120

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240524

VOA9_467761			VLCSW-240524			VLCSDW-240524					
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/24/24 Run Time 13:13			Run Date 05/24/24 Run Time 13:35					
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	18.24	91		17.04	85		20	6.78	
1,1,1-Trichloroethane	74-131	20	18.26	91		17.69	88		20	3.15	
1,1,2,2-Tetrachloroethane	71-121	20	20.93	105		20	100		20	4.59	
1,1,2-Trichloroethane	80-119	20	20.59	103		18.81	94		20	9.06	
1,1-Dichloroethane	77-125	20	19.25	96		18.77	94		20	2.52	
1,1-Dichloroethene	71-131	20	17.06	85		16.77	84		20	1.74	
1,1-Dichloropropene	78-125	20	17.97	90		16.98	85		20	5.7	
1,2,3-Trichlorobenzene	69-129	20	18.86	94		17.33	87		20	8.43	
1,2,3-Trichloropropane	73-122	20	20.48	102		19.34	97		20	5.71	
1,2,4-Trichlorobenzene	69-130	20	18.54	93		16.92	85		20	9.09	
1,2,4-Trimethylbenzene	76-124	20	19.5	98		17.88	89		20	8.71	
1,2-Dibromo-3-chloropropane	62-128	20	19.27	96		18.13	91		20	6.08	
1,2-Dibromoethane	77-121	20	19.85	99		18.53	93		20	6.88	
1,2-Dichlorobenzene	80-119	20	20.78	104		19.41	97		20	6.83	
1,2-Dichloroethane	73-128	20	19.33	97		19.25	96		20	0.446	
1,2-Dichloropropane	78-122	20	19.45	97		18.52	93		20	4.89	
1,3,5-Trimethylbenzene	75-124	20	19.89	99		18.2	91		20	8.83	
1,3-Dichlorobenzene	80-119	20	20.55	103		18.83	94		20	8.74	
1,3-Dichloropropane	80-119	20	20.14	101		19.55	98		20	2.98	
1,4-Dichlorobenzene	79-118	20	20.53	103		19.13	96		20	7.09	
2,2-Dichloropropane	60-139	20	17.91	90		17.35	87		20	3.19	
2-Butanone	56-143	40	40.67	102		40.85	102		20	0.447	
2-Chlorotoluene	79-122	20	18.97	95		17.34	87		20	8.98	
2-Hexanone	57-139	40	37.86	95		36.32	91		20	4.15	
4-Chlorotoluene	78-122	20	19.24	96		17.7	88		20	8.35	
4-Isopropyltoluene	77-127	20	19.72	99		18.05	90		20	8.83	
4-Methyl-2-pentanone	67-130	40	38.08	95		36.88	92		20	3.21	
Acetone	39-160	40	45.14	113		45.27	113		20	0.282	
Benzene	79-120	20	19.18	96		18.45	92		20	3.86	
Bromobenzene	80-120	20	18.58	93		17.54	88		20	5.76	
Bromochloromethane	78-123	20	19.51	98		19.05	95		20	2.41	
Bromodichloromethane	79-125	20	17.55	88		16.9	84		20	3.79	
Bromoform	66-130	20	17.37	87		16.63	83		20	4.32	
Bromomethane	53-141	20	21.94	110		21.45	107		20	2.24	
Carbon disulfide	64-133	40	34.68	87		33.18	83		20	4.4	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240524

VOA9_467761			VLCSW-240524			VLCSDW-240524					
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/24/24 Run Time 13:13			Run Date 05/24/24 Run Time 13:35					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	17.43	87		16.65	83		20	4.58	
Chlorobenzene	82-118	20	20.02	100		18.99	95		20	5.25	
Chloroethane	60-138	20	17.44	87		16.94	85		20	2.92	
Chloroform	79-124	20	19.25	96		18.87	94		20	2	
Chloromethane	50-139	20	18.47	92		17.9	90		20	3.14	
cis-1,2-Dichloroethene	78-123	20	17.33	87		16.98	85		20	2.02	
cis-1,3-Dichloropropene	75-124	20	18.37	92		17.89	89		20	2.67	
Dibromochloromethane	74-126	20	18.63	93		17.52	88		20	6.14	
Dibromomethane	79-123	20	18.29	91		17.64	88		20	3.62	
Dichlorodifluoromethane	32-152	20	18.7	94		17.8	89		20	4.92	
Ethylbenzene	79-121	20	18.15	91		17.25	86		20	5.08	
Hexachlorobutadiene	66-134	20	19.92	100		17.63	88		20	12.2	
Isopropylbenzene	72-131	20	19.01	95		17.92	90		20	5.89	
m,p-Xylene	80-121	40	37.73	94		36.11	90		20	4.38	
Methylene chloride	74-124	20	19.69	98		19.23	96		20	2.33	
Naphthalene	61-128	20	20.99	105		18.92	95		20	10.3	
n-Butylbenzene	75-128	20	19.16	96		17.77	89		20	7.54	
n-Propylbenzene	76-126	20	20.02	100		18.26	91		20	9.21	
o-Xylene	78-122	20	18.93	95		17.96	90		20	5.3	
sec-Butylbenzene	77-126	20	19.59	98		17.93	90		20	8.86	
Styrene	78-123	20	19.07	95		18.21	91		20	4.61	
tert-Butylbenzene	78-124	20	19.71	98		17.83	89		20	9.99	
Tetrachloroethene	74-129	20	18.98	95		17.84	89		20	6.23	
Toluene	80-121	20	18.46	92		17.54	88		20	5.12	
trans-1,2-Dichloroethene	75-124	20	17.31	87		16.63	83		20	4.03	
trans-1,3-Dichloropropene	73-127	20	18.07	90		17.46	87		20	3.42	
Trichloroethene	79-123	20	18.06	90		17.15	86		20	5.17	
Trichlorofluoromethane	65-141	20	18.07	90		17.7	88		20	2.1	
Vinyl chloride	58-137	20	17.63	88		17.4	87		20	1.3	

right solutions.
right partner.

Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240524	Aqueous	05/24/24 14:18	R467761	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240524	VLCSW-240524	LCS	05/24/24 13:13	R467761	VOA9	U052403.D
VLCSDW-240524	VLCSDW-240524	LCSD	05/24/24 13:35	R467761	VOA9	U052404.D
Trip Blank	HS24051276-03	SAMP	05/24/24 16:05	R467761	VOA9	U052411.D
LH18/24-SP650_052124	HS24051276-01	SAMP	05/24/24 17:10	R467761	VOA9	U052414.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

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

Lab File ID: V052201 BFB Injection Date: 05/22/24

Instrument ID: VOA9 BFB Injection Time: 2001

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	18.3
75	30.0 - 60.0% of mass 95	47.4
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	93.9
175	5.0 - 9.0% of mass 174	8.3 (8.8)1
176	95.0 - 101.0% of mass 174	92.6 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)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	V052202	05/22/24	2022
02	VSTD00.5	VSTD00.5	V052203	05/22/24	2044
03	VSTD001	VSTD001	V052204	05/22/24	2105
04	VSTD002	VSTD002	V052205	05/22/24	2127
05	VSTD005	VSTD005	V052206	05/22/24	2148
06	VSTD020	VSTD020	V052207	05/22/24	2210
07	VSTD050	VSTD050	V052208	05/22/24	2231
08	VSTD100	VSTD100	V052209	05/22/24	2253
09	VSTD150	VSTD150	V052210	05/22/24	2314
10	VSTD200	VSTD200	V052211	05/22/24	2336
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

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

Lab File ID: V052213 BFB Injection Date: 05/23/24

Instrument ID: VOA9 BFB Injection Time: 0019

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	19.1
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	7.3 (8.9)1
176	95.0 - 101.0% of mass 174	80.4 (98.0)1
177	5.0 - 9.0% of mass 176	5.7 (7.1)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	VSTD050	VSTD050	V052214	05/23/24	0040
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS24051276	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

Tune File: U052401.D 05/24/24 5/24/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	46.9 (46.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.46)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	88.8 (88.8) 1
175	5.0 - 9.0% of mass 174	7.7 (8.7) 1
176	> 95% but < 101% of mass 174	87.3 (98.3) 1
177	5.0 - 9.0% of mass 176	5.9 (6.81) 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	5/24/2024	U052402	VSTD050
2	VLCSW-	LCS	5/24/2024	U052403	VLCSW-240524
3	VLCSDW-	LCSD	5/24/2024	U052404	VLCSDW-240524
4	VBLKW-	MBLK	5/24/2024	U052406	VBLKW-240524
5	HS24051276-	SAMP	5/24/2024	U052411	Trip Blank
6	HS24051276-	SAMP	5/24/2024	U052414	LH18/24-SP650_052124
7	VSTD050	CCV_EN	5/24/2024	U052429	VSTD050

Report Date : 03-Jun-2024 14:27 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052202.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052203.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052204.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052205.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052206.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052207.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052208.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052209.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052210.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052211.D

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
2 Dichlorodifluoromethane	+++++	0.31991	0.21803	0.29269	0.25771	0.27072					
	0.24949	0.25524	0.27526	0.26172			AVRG		0.26675		10.68353
3 Chloromethane	+++++	9635	11392	18240	27986	92896					
	201352	415448	607310	777289			QUAD	-0.02121	1.04282	0.08038	0.99827
4 Propionitrile	+++++	1689	3786	8325	13197	53459					
	125590	247974	419530	+++++			QUAD	-0.32703	21.95366	-2.57677	0.99854

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	0.54952	0.44021	0.51521	0.42477	0.44229					
	0.40339	0.41965	0.44806	0.43222			AVRG		0.45281		10.55946
6 Bromomethane	+++++	1387	1774	3105	4737	14446					
	32231	65774	+++++	+++++			QUAD	-0.04623	7.57113	0.17672	0.99979
7 Chloroethane	+++++	0.37107	0.37081	0.38283	0.30283	0.31196					
	0.27198	0.28133	0.29331	0.28697			AVRG		0.31923		13.60761
8 Trichlorofluoromethane	+++++	0.58607	0.45068	0.56760	0.50245	0.53917					
	0.48008	0.49485	0.52582	0.50461			AVRG		0.51681		8.24237
9 Acrolein	+++++	256	475	725	1345	3650					
	9239	16522	26414	34482			QUAD	-0.06873	54.45388	29.71659	0.99750
10 Acetone	+++++	2401	2810	4226	9344	29961					
	74341	142776	195395	261791			LINR	-0.14839	0.13112		0.99618
11 1,1-Dichloroethene	+++++	0.34356	0.33850	0.38053	0.29614	0.30709					
	0.27261	0.28726	0.30795	0.29838			AVRG		0.31467		10.64232

Report Date : 03-Jun-2024 14:27 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	3376	5996	14294	23835	100941						
	249577	519730	863241	1273928			QUAD	-0.13682	20.08330	-0.83542	0.99949	
13 Acetonitrile	+++++	0.04519	0.05138	0.04988	0.03573	0.03773						
	0.03672	0.03592	0.04053	0.03858			AVRG		0.04130		14.62819	
14 Allyl Chloride	+++++	3162	5992	12724	23141	88098						
	214149	428574	707694	947838			QUAD	-0.00543	1.11989	-0.01736	0.99797	
15 Iodomethane	+++++	972	1167	1618	2870	8911						
	25516	74208	163796	+++++			QUAD	0.02633	17.48095	-12.83781	0.99676	<-
16 Acrylonitrile	+++++	887	2044	4082	6737	26132						
	61198	120448	200354	266324			QUAD	-0.02411	7.91315	-0.38320	0.99754	
17 Methylene Chloride	+++++	3393	4514	7451	12092	38922						
	83846	174302	267122	364439			QUAD	-0.03669	2.82402	-0.02375	0.99938	
18 Methyl tert-butyl ether	+++++	2576	5966	12924	21791	83654						
	203281	403076	666277	899435			QUAD	-0.00834	1.19671	-0.02313	0.99815	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	1.12096	0.92647	1.08898	0.83484	0.91452					
	0.86355	0.89946	0.97603	0.94626			AVRG		0.95234		10.11876
20 trans-1,2-Dichloroethene	+++++	0.43901	0.40136	0.44139	0.32935	0.33984					
	0.31139	0.31833	0.33770	0.32741			AVRG		0.36064		14.40072
21 Vinyl Acetate	+++++	1730	2690	5865	9530	40971					
	96737	197614	323159	430445			QUAD	-0.00517	4.84090	-0.11902	0.99796
22 1,1-Dichloroethane	+++++	2200	3832	8759	15610	61717					
	141547	296135	459660	632104			QUAD	-0.00792	1.65034	-0.02116	0.99944
23 Chloroprene	+++++	0.63293	0.56723	0.66506	0.51987	0.52956					
	0.48925	0.50955	0.53642	0.51122			AVRG		0.55123		10.87360
24 2-Butanone	+++++	1551	2158	5940	9381	38584					
	96203	197983	309540	411704			QUAD	0.00762	4.73426	0.07641	0.99871
25 Methacrylonitrile	+++++	666	1456	3544	4723	20676					
	54977	114272	183139	250943			QUAD	0.00584	4.28276	-0.29109	0.99895

Report Date : 03-Jun-2024 14:27 Page 5

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	0.53533	0.40245	0.52107	0.35986	0.41803					
	0.39626	0.42573	0.46242	0.44876			AVRG		0.44110		13.08689
27 cis-1,2-Dichloroethene	+++++	0.49233	0.51354	0.54177	0.38687	0.41151					
	0.37275	0.38004	0.40384	0.39210			AVRG		0.43275		14.92771
28 Chloroform	+++++	2029	3810	8888	15738	63122					
	146139	305959	474746	645327			QUAD	-0.00387	1.57488	-0.00578	0.99926
29 Bromochloromethane	+++++	572	1171	2688	4773	18597					
	43607	90371	137705	188513			QUAD	-0.00614	5.32172	0.05265	0.99960
31 1,1,1-Trichloroethane	+++++	0.50136	0.45832	0.55767	0.45700	0.50683					
	0.48419	0.50113	0.54336	0.52554			AVRG		0.50393		6.87573
32 1,1-Dichloropropene	+++++	0.46417	0.30682	0.41934	0.31966	0.33763					
	0.31835	0.32909	0.35023	0.33263			AVRG		0.35310		14.99712
33 1,2-Dichloroethane	+++++	1661	3006	7453	12613	50147					
	116826	238700	371348	502406			QUAD	-0.00340	2.84887	0.06040	0.99919

Report Date : 03-Jun-2024 14:27 Page 6

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	0.32346	0.28046	0.29351	0.23724	0.27410					
	0.26725	0.28956	0.31281	0.30441			AVRG		0.28698		9.07323
37 Benzene	+++++	4963	8834	20260	35983	145783					
	340081	712365	1101756	1506050			QUAD	-0.00066	0.97098	0.00182	0.99940
38 Trichloroethene	+++++	0.32985	0.28576	0.32731	0.25768	0.26445					
	0.25220	0.25153	0.26818	0.25736			AVRG		0.27715		11.16414
39 Bromodichloromethane	+++++	0.29184	0.29636	0.35766	0.24736	0.28752					
	0.29051	0.31021	0.33333	0.32511			AVRG		0.30443		10.44553
40 Methyl Methacrylate	+++++	284	1155	2174	3018	11958					
	29014	61390	109195	141715			QUAD	0.00210	7.97011	-1.87075	0.99470
41 2-Chloroethylvinyl ether	+++++	481	1242	2608	5466	25169					
	68317	152634	262521	365558			QUAD	0.05703	9.50563	-1.59915	0.99787
42 1,2-Dichloropropane	+++++	1434	2470	5897	9626	39815					
	92414	192490	299364	409712			QUAD	-0.00292	3.60409	-0.00525	0.99937

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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
43 2-Nitropropane	+++++	138	621	954	1500	6840					
	17807	39659	73483	+++++			QUAD	-0.01174	15.03490	-16.93857	0.99980
44 Dibromomethane	+++++	0.17957	0.19713	0.22026	0.15910	0.16438					
	0.15702	0.15441	0.16332	0.15652			AVRG		0.17241		13.11348
45 4-Methyl-2-Pentanone	+++++	0.38464	0.36698	0.41042	0.28516	0.32110					
	0.31831	0.32250	0.35623	0.33873			AVRG		0.34490		11.16857
46 cis-1,3-Dichloropropene	+++++	0.32985	0.29386	0.37770	0.26241	0.33254					
	0.35355	0.38241	0.41975	0.40813			AVRG		0.35113		14.79718
49 Ethyl Methacrylate	+++++	0.36176	0.40104	0.43882	0.30360	0.33361					
	0.34389	0.34593	0.40333	0.38777			AVRG		0.36886		11.41267
50 Toluene	+++++	1.57761	1.26054	1.56456	1.13423	1.22157					
	1.14725	1.13754	1.18523	1.14413			AVRG		1.26363		14.19878
51 trans-1,3-Dichloropropene	+++++	806	1359	3854	7333	36762					
	97757	223156	365940	509892			QUAD	0.02981	3.24540	-0.28591	0.99858

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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
52 2-Hexanone	+++++	0.28685	0.23695	0.26588	0.18799	0.20353					
	0.20910	0.21734	0.24045	0.23053			AVRG		0.23096		13.46066
53 1,1,2-Trichloroethane	+++++	940	1635	4383	7348	29346					
	66596	137987	214887	291834			QUAD	-0.00722	4.52639	0.11264	0.99957
54 1,3-Dichloropropane	+++++	1916	3587	8637	14915	61013					
	144932	297425	469335	637919			QUAD	-0.00321	2.10442	0.00360	0.99948
55 Dibromochloromethane	+++++	0.21022	0.22260	0.25481	0.18328	0.23404					
	0.25382	0.26998	0.29034	0.28637			AVRG		0.24505		14.57533
56 Tetrachloroethene	+++++	0.28246	0.21871	0.28617	0.22156	0.23855					
	0.22270	0.22045	0.23019	0.22317			AVRG		0.23822		11.26635
57 1,2-Dibromoethane	+++++	0.27270	0.26832	0.34503	0.22709	0.25776					
	0.25593	0.25238	0.26870	0.25887			AVRG		0.26742		11.97519
58 1-Chlorohexane	+++++	3782	4226	6784	10145	31204					
	71175	154985	252903	347980			QUAD	-0.02842	4.75748	-0.55426	0.99850

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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	
59 Chlorobenzene	+++++	3466	6324	13797	25267	97577						
	224627	465190	727850	999180			QUAD	-0.00922	1.36483	-0.00410	0.99968	
60 1,1,1,2-Tetrachloroethane	+++++	0.26391	0.24984	0.31351	0.21621	0.24835						
	0.25158	0.25808	0.27421	0.27204			AVRG		0.26086		10.00566	
61 Ethylbenzene	+++++	0.47803	0.41310	0.48071	0.36383	0.38317						
	0.37172	0.37212	0.39654	0.38613			AVRG		0.40504		11.01304	
62 m,p-Xylenes	+++++	0.56232	0.47074	0.60287	0.43001	0.48826						
	0.47264	0.47003	0.49747	0.48198			AVRG		0.49737		10.60925	
63 o-Xylene	+++++	0.53986	0.49903	0.57124	0.41951	0.47299						
	0.46680	0.45910	0.48234	0.47067			AVRG		0.48684		9.26076	
64 Styrene	+++++	0.84933	0.81275	0.93273	0.72853	0.81537						
	0.80563	0.80544	0.85149	0.83101			AVRG		0.82581		6.52639	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	392	721	1952	3641	17174					
	47869	111672	191523	268349			QUAD	0.03290	5.98329	-1.32132	0.99830
67 Isopropylbenzene	+++++	1.35144	1.12825	1.37207	1.05200	1.19183					
	1.16453	1.17325	1.23519	1.19694			AVRG		1.20728		8.40688
68 1,1,2,2-Tetrachloroethane	+++++	1392	3041	6823	11307	47816					
	108865	229364	369458	495269			QUAD	-0.00218	1.48500	-0.01074	0.99885
71 1,2,3-Trichloropropane	+++++	1521	2895	5886	10722	46169					
	110579	238259	395706	536785			QUAD	0.00573	1.46634	-0.04347	0.99860
72 trans-1,4-Dichloro-2-butene	+++++	267	701	1369	2495	9783					
	23825	51909	88907	121414			QUAD	0.00609	12.61870	-4.60883	0.99820
73 n-Propylbenzene	+++++	2.84161	2.39714	2.95962	2.23475	2.56266					
	2.51462	2.53606	2.69092	2.50422			AVRG		2.58240		8.54652
74 Bromobenzene	+++++	0.70834	0.75521	0.85763	0.60176	0.61026					
	0.58527	0.58438	0.61515	0.60043			AVRG		0.65760		14.53970

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75 1,3,5-Trimethylbenzene	+++++ / 1.76339	1.90774 / 1.80001	1.60238 / 1.90137	1.96049 / 1.84979	1.47923	1.77537	AVRG		1.78220		8.67358
76 2-Chlorotoluene	+++++ / 1.53078	1.90203 / 1.53307	1.78601 / 1.59696	2.11473 / 1.54138	1.48464	1.57025	AVRG		1.67332		12.83996
77 4-Chlorotoluene	+++++ / 1.77452	2.08435 / 1.75859	1.99411 / 1.85461	2.42353 / 1.79632	1.64889	1.81623	AVRG		1.90568		12.23992
78 tert-Butylbenzene	+++++ / 1.52616	1.64982 / 1.52354	1.48468 / 1.61709	1.77112 / 1.56446	1.36126	1.57221	AVRG		1.56337		7.27939
79 1,2,4-Trimethylbenzene	+++++ / 1.73676	2.23682 / 1.76307	1.75964 / 1.88067	2.03294 / 1.82018	1.47727	1.74677	AVRG		1.82824		11.58365
80 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++ / 2.04149	2.21586 / 2.09249	1.77251 / 2.23163	2.30514 / 2.14917	1.80011	2.08860	AVRG		2.07744		8.86714

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82 p-Isopropyltoluene	+++++	1.84930	1.55907	1.97056	1.52775	1.79936						
	1.81614	1.85756	1.97761	1.92173			AVRG		1.80879		9.01960	
83 1,3-Dichlorobenzene	+++++	2161	4451	10178	17996	73922						
	173337	357696	572945	778320			QUAD	-0.00400	0.95700	-0.00627	0.99927	
84 1,4-Dichlorobenzene	+++++	3093	4916	11601	19669	77028						
	180977	370133	591659	800109			QUAD	-0.00802	0.92021	-0.00337	0.99923	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	4426	5397	7550	10330	34867						
	89212	210396	376162	544172			QUAD	-0.00352	3.31705	-0.53641	0.99777	
87 n-Butylbenzene	+++++	3735	5689	12812	24166	109317						
	268963	572951	921709	1247444			QUAD	0.00946	0.59880	-0.00318	0.99908	
88 1,2-Dichlorobenzene	+++++	2392	4478	10650	17994	72010						
	173036	351398	559869	765245			QUAD	-0.00682	0.97537	-0.00637	0.99945	

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89 1,2-Dibromo-3-Chloropropane	+++++	132	232	632	1114	5037					
	13422	30092	53671	75288			QUAD	0.02354	11.99114	-6.09409	0.99784
90 1,2,4-Trichlorobenzene	+++++	0.88812	0.81861	0.85363	0.59312	0.67590					
	0.68936	0.71029	0.76912	0.75711			AVRG		0.75058		12.48846
91 Hexachlorobutadiene	+++++	739	961	2569	4784	20767					
	49023	104037	168921	231334			QUAD	0.00242	3.34971	-0.17963	0.99919
92 Naphthalene	+++++	1.61742	1.45548	1.75867	1.16526	1.51498					
	1.62015	1.64492	1.81179	1.74094			AVRG		1.59218		12.34726
93 1,2,3-Trichlorobenzene	+++++	0.85064	0.74045	0.83496	0.56373	0.63472					
	0.63618	0.64251	0.70603	0.68105			AVRG		0.69892		13.68024
130 Ethyl Acetate	+++++	1741	2292	6005	9900	40345					
	96737	197614	323159	430445			QUAD	-0.00187	2.42122	-0.06033	0.99797
131 Methyl Acrylate	+++++	1203	2622	6155	9474	41236					
	100487	201900	341037	453745			QUAD	-0.00013	2.37661	-0.10271	0.99726

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132 n-Butanol	+++++	0.00987	0.01138	0.01005	0.00726	0.00821					
	0.00842	0.00864	0.01075	0.01017			AVRG		0.00942		14.31547
133 Ethyl Acrylate	+++++	0.76924	0.92603	0.95137	0.80703	0.84926					
	0.85045	0.85585	0.98235	0.94254			AVRG		0.88157		8.17704
134 Cyclohexanone	+++++	937	2342	4862	8573	32764					
	91643	177267	279590	373518			QUAD	0.10245	36.64749	0.99494	0.99907
135 1,4-Dioxane	280	374	700	1210	2038	6932					
	16410	34583	58072	75607			QUAD	-0.17545	280	-61.53994	0.99658
136 n-Hexane	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00036	2.83398	-0.12287	0.99919
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.50437	0.44326	0.57691	0.54785	0.56555					
	0.52381	0.53115	0.58722	0.56539			AVRG		0.53839		8.27951

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146 Methyl Acetate	+++++	1546	3162	6584	11741	40129					
	89430	184062	289604	389125			QUAD	-0.01716	2.60873	-0.01303	0.99880
147 Methylcyclohexane	+++++	0.51551	0.62467	0.63840	0.54424	0.57861					
	0.58893	0.59284	0.67503	0.64406			AVRG		0.60026		8.43958
149 Isopropyl alcohol	+++++	1468	2808	6005	9227	36513					
	91636	182354	317783	+++++			QUAD	-0.61135	61.26130	-11.52686	0.99871
152 Amyl alcohol	+++++	903	1088	2287	4202	17278					
	45025	96345	179902	241673			QUAD	0.30139	135	-36.79710	0.99573
150 Allyl alcohol	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00713	56.67965	-2.45749	0.99919
151 4-Methyl-2-pentanol	+++++	0.06279	0.07283	0.08250	0.05846	0.07080					
	0.07238	0.07504	0.09124	0.08687			AVRG		0.07477		14.28360
148 Tert-butyl alcohol	+++++	1855	3418	7842	12384	47273					
	110717	224546	393893	+++++			QUAD	-0.75127	50.40812	-8.05303	0.99877

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139 Diethyl ether	+++++	778	1531	3327	6208	23422					
	56732	112971	184324	254190			QUAD	-0.01026	4.33934	-0.37300	0.99886
140 1,3-Butadiene	+++++	0.25541	0.15823	0.22064	0.18334	0.20150					
	0.17758	0.18791	0.20041	0.19295			AVRG		0.19755		14.05247
141 Cyclohexane	+++++	5290	6419	9869	16026	56651					
	125569	262264	413887	565382			QUAD	-0.02868	1.89445	-0.04688	0.99906
142 Tetrahydrofuran	+++++	763	1504	2093	3112	14728					
	31799	62998	106261	+++++			QUAD	-0.08541	17.28487	-7.80012	0.99811
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.74645	0.68898	0.81229	0.58004	0.68287					
	0.72599	0.74366	0.81025	0.80199			AVRG		0.73250		10.26196

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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	+++++	3742	7158	16134	28630	111300						
	270843	542852	865221	1170909			QUAD	-0.00564	0.88109	-0.00485	0.99888	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	836	1170	5236						
	12428	24845	38997	52739			QUAD	-0.01401	38.17088	0.15254	0.99883	

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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	+++++	0.49821	0.51881	0.62623	0.43251	0.45200						
	0.47736	0.50676	0.61909	0.62840			AVRG		0.52882		14.47924	
163 Butyl methacrylate	+++++	1303	2905	4741	10657	43896						
	101384	184758	327444	474934			QUAD	-0.02643	1.91756	-0.14507	0.99781	
164 Dicyclopentadiene	+++++	6100	10054	19537	39000	147876						
	365706	734991	1228197	1661176			QUAD	-0.00452	0.46732	-0.00364	0.99857	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.77179	1.82838	1.91203	1.46436	1.60846						
	1.65970	1.59312	1.74363	1.67594			AVRG		1.69527		7.96412	

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Start Cal Date : 22-MAY-2024 20:22
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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							
167 Ethanol	+++++	322	619	1328	2037	7268					
	17713	34812	60218	+++++			QUAD	-0.81959	320	-302	0.99850
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	+++++	1386	3423	6942	12331	47935					
	98001	245253	+++++	+++++			QUAD	-0.06014	5.21847	-1.15514	0.99744
173 3,3-Dimethyl-1-butanol	+++++	2315	5298	9713	17497	74287					
	172267	356876	652708	+++++			QUAD	-0.56583	41.82438	-5.83276	0.99881
174 tert-Amyl methyl ether	+++++	1.17729	1.27763	1.29990	0.98515	1.03130					
	0.99096	0.97632	1.14344	1.07025			AVRG		1.10580		11.30629
175 tert-Butyl ethyl ether	+++++	1.25168	1.29465	1.35679	0.96614	0.99116					
	0.99568	0.97900	1.09953	1.06894			AVRG		1.11151		13.56608

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	1386	3423	6942	11797	47935						
	98001	245253	441582	+++++			QUAD	-0.46114	50.22947	-9.46081	0.99895	
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	+++++	205	539	1366	2190	9275						
	23006	48090	84666	+++++			QUAD	-0.06908	68.17823	-75.18094	0.99938	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	0.08772	0.06046	0.08930	0.08812	0.08961						
	0.08324	0.08464	0.09370	0.08815			AVRG		0.08499		11.37748	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	1919	3766	9669	15463	63254						
	146447	324241	545320	769469			QUAD	-0.00062	2.07532	-0.14579	0.99907	
188 Isopropyl acetate	+++++	3832	6126	14294	23835	101323						
	246529	520021	858493	1268452			QUAD	-0.00514	1.44921	-0.08245	0.99961	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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								
189 n-Butyl acetate	+++++	0.55808	0.53632	0.61623	0.41527	0.46600						
	0.46274	0.48837	0.55614	0.54053			AVRG		0.51552		12.01421	
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	+++++	+++++	0.07852	0.08180	0.05955	0.06715						
	0.06362	0.05949	0.06480	0.06424			AVRG		0.06740		12.36397	<-
195 Methyl Amyl Ketone	+++++	0.55646	0.66829	0.74954	0.54128	0.56810						
	0.59875	0.59085	0.68928	0.67988			AVRG		0.62693		11.45992	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	343	751	1761	3121	15182						
	47587	138053	293895	+++++			QUAD	0.04294	6.02127	-3.06230	0.99729	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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	+++++	164	367	1170	3060	11735					
	28123	59172	97888	133462			QUAD	0.00758	8.28189	-1.52047	0.99837
203 2-Ethylhexyl Acrylate	+++++	680	1428	3034	4851	25358					
	82852	192225	349547	+++++			QUAD	0.02159	2.16954	-0.34376	0.99934
M 94 1,2-Dichloroethylene (total)	+++++	0.46567	0.45745	0.49158	0.35811	0.37568					
	0.34207	0.34919	0.37077	0.35976			AVRG		0.39670		14.55216
M 95 Xylenes (total)	+++++	0.49463	0.43603	0.53054	0.38169	0.43607					
	0.42260	0.42338	0.45371	0.43613			AVRG		0.44609		9.72663
$ 30 Dibromofluoromethane	+++++	1204	2174	4978	8395	33492					
	76667	155928	247969	343699			QUAD	-0.01409	3.16111	-0.16075	0.99927
$ 35 1,2-Dichloroethane-d4	+++++	1807	3401	6849	11168	41399					
	92816	186459	296828	404807			QUAD	-0.02164	2.60719	-0.06848	0.99896
$ 48 Toluene-d8	+++++	5599	8273	17737	32218	123251					
	283574	582672	927386	1284061			QUAD	-0.01370	1.10652	-0.01390	0.99961

Report Date : 03-Jun-2024 14:27 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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							
$ 69 4-Bromofluorobenzene	+++++	2573	3587	7375	12392	46114					
	106600	213520	343103	472873			QUAD	-0.02034	3.00232	-0.09875	0.99942

Report Date : 03-Jun-2024 14:27 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

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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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	46.9	93.8	80-120	
1,1,1-Trichloroethane	50.0	45.5	91.0	80-120	
1,1,2,2-Tetrachloroethane	50.0	48.8	97.7	80-120	
Freon TF	50.0	46.5	93.0	80-120	
Methyl acetate	50.0	48.0	96.0	80-120	
Cyclohexane	50.0	46.5	93.1	80-120	
Methylcyclohexane	50.0	47.1	94.2	80-120	
Carbon Disulfide	100	88.7	88.7	80-120	
2-Hexanone	100	87.1	87.2	80-120	
1,1,2-Trichloroethane	50.0	47.5	94.9	80-120	
1,1-Dichloroethane	50.0	46.6	93.3	80-120	
1,1-Dichloroethene	50.0	42.9	85.8	80-120	
1,1-Dichloropropene	50.0	43.8	87.6	80-120	
1,2,3-Trichlorobenzene	50.0	44.5	89.0	80-120	
1,2,3-Trichloropropane	50.0	48.0	96.0	80-120	
1,2,4-Trichlorobenzene	50.0	45.6	91.2	80-120	
1,2,4-Trimethylbenzene	50.0	47.0	93.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	47.1	94.1	80-120	
1,2-Dibromoethane	50.0	46.3	92.6	80-120	
Acrolein	100	89.0	89.0	80-120	
Acrylonitrile	100	96.6	96.6	80-120	
1,2-Dichlorobenzene	50.0	48.3	96.7	80-120	
1,2-Dichloroethane	50.0	46.3	92.7	80-120	
1,2-Dichloropropane	50.0	45.8	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	48.6	97.2	80-120	
1,3-Dichlorobenzene	50.0	48.0	96.1	80-120	
1,3-Dichloropropane	50.0	48.3	96.5	80-120	
1,4-Dichlorobenzene	50.0	47.6	95.2	80-120	
1-Chlorohexane	50.0	45.3	90.5	80-120	
2,2-Dichloropropane	50.0	42.2	84.3	80-120	
2-Butanone	100	89.9	89.9	80-120	
2-Chloroethylvinyl ether	100	92.8	92.8	80-120	
2-Chlorotoluene	50.0	44.5	89.0	80-120	
4-Chlorotoluene	50.0	45.4	90.7	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.0	98.0	80-120	
4-Methyl-2-Pentanone	100	90.3	90.3	80-120	
Acetone	100	89.2	89.2	80-120	
Acetonitrile	500	431	86.2	80-120	
Allyl Chloride	50.0	47.6	95.1	80-120	
Benzene	50.0	46.8	93.6	80-120	
Bromobenzene	50.0	43.5	87.0	80-120	
Bromochloromethane	50.0	48.0	96.1	80-120	
Bromodichloromethane	50.0	46.2	92.4	80-120	
Bromoform	50.0	46.7	93.4	80-120	
Bromomethane	50.0	59.9	120	80-120	
Carbon Tetrachloride	50.0	44.4	88.8	80-120	
Chlorobenzene	50.0	47.3	94.7	80-120	
Chloroethane	50.0	41.0	82.0	80-120	
Chloroform	50.0	46.7	93.4	80-120	
Chloromethane	50.0	40.3	80.7	80-120	
Chloroprene	50.0	42.8	85.7	80-120	
cis-1,2-Dichloroethene	50.0	42.6	85.1	80-120	
cis-1,3-Dichloropropene	50.0	49.0	98.0	80-120	
Dibromochloromethane	50.0	51.1	102	80-120	
Dibromomethane	50.0	42.4	84.8	80-120	
Dichlorodifluoromethane	50.0	43.6	87.1	80-120	
Ethylbenzene	50.0	44.9	89.7	80-120	
Ethyl Methacrylate	50.0	45.4	90.8	80-120	
Iodomethane	100	137	137	80-120	*
Isobutyl Alcohol	1000	976	97.6	70-130	
Propionitrile	500	517	103	70-130	
Hexachlorobutadiene	50.0	45.8	91.6	80-120	
Isopropylbenzene	50.0	46.5	93.0	80-120	
m,p-Xylenes	100	91.6	91.6	80-120	
Methyl tert-butyl ether	50.0	49.1	98.2	80-120	
Methylene Chloride	50.0	47.1	94.3	80-120	
Methacrylonitrile	50.0	47.4	94.8	80-120	
Methyl Methacrylate	50.0	45.1	90.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	46.3	92.6	80-120	
n-Propylbenzene	50.0	47.3	94.7	80-120	
Naphthalene	50.0	49.6	99.2	80-120	
o-Xylene	50.0	45.8	91.7	80-120	
sec-Butylbenzene	50.0	48.6	97.1	80-120	
Styrene	50.0	47.2	94.4	80-120	
tert-Butylbenzene	50.0	47.5	94.9	80-120	
Tetrachloroethene	50.0	43.7	87.4	80-120	
Toluene	50.0	44.1	88.3	80-120	
trans-1,2-Dichloroethene	50.0	41.7	83.4	80-120	
trans-1,3-Dichloropropene	50.0	45.9	91.8	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.6	91.2	80-120	
Trichloroethene	50.0	43.7	87.4	80-120	
Trichlorofluoromethane	50.0	44.3	88.7	80-120	
Vinyl Acetate	100	95.8	95.8	80-120	
Vinyl Chloride	50.0	42.4	84.8	80-120	
Methyl Acrylate	50.0	48.5	97.1	80-120	
Ethyl Acrylate	50.0	46.1	92.2	80-120	
Butyl acrylate	50.0	45.4	90.7	80-120	
2-Ethylhexyl Acrylate	50.0	49.6	99.1	80-120	
Allyl alcohol	1000	886	88.6	80-120	
1,2-Dichloroethylene (total)	100	84.3	84.3	80-120	
Xylenes (total)	150	136	90.5	80-120	
1,4-Dioxane	1000	891	89.1	80-120	
Dibromofluoromethane	50.0	48.2	96.5	71-125	
1,2-Dichloroethane-d4	50.0	47.8	95.5	70-125	
Toluene-d8	50.0	48.9	97.9	75-125	
4-Bromofluorobenzene	50.0	49.6	99.2	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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. **Workorder** HS24051276

Project Groundwater Treatment Plant Quarterly Effluent Samples

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
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	0.267	0.251	0.251	0.100	5.90	20.0	Averaged	
Chloromethane	50.0	44.8	0.827	0.100	10.3	20.0	Quadratic	
Propionitrile	500	527	0.053	0.010	-5.374	20.0	Quadratic	
Vinyl Chloride	0.453	0.392	0.392	0.100	13.4	20.0	Averaged	
Bromomethane	50.0	52.4	0.144	0.100	-4.879	20.0	Quadratic	
Chloroethane	0.319	0.265	0.265	0.100	16.8	20.0	Averaged	
Trichlorofluoromethane	0.517	0.472	0.472	0.100	8.60	20.0	Averaged	
Acrolein	100	89.9	0.017	0.010	10.1	20.0	Quadratic	
Acetone	100	103	0.145	0.100	-2.954	20.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.7	20.0	Averaged	
Isobutyl Alcohol	1000	1017	0.053	0.005	-1.724	20.0	Quadratic	
Acetonitrile	0.041	0.033	0.033	0.005	19.2	20.0	Averaged	
Allyl Chloride	50.0	45.4	0.827	0.100	9.16	20.0	Quadratic	
Iodomethane	100	94.2	0.058	0.100	5.80	20.0	Quadratic	*
Acrylonitrile	100	96.3	0.125	0.050	3.75	20.0	Quadratic	
Methylene Chloride	50.0	47.8	0.353	0.100	4.33	20.0	Quadratic	
Methyl tert-butyl ether	50.0	45.5	0.780	0.100	8.91	20.0	Quadratic	
Carbon Disulfide	0.952	0.834	0.834	0.100	12.4	20.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.306	0.306	0.100	15.2	20.0	Averaged	
Vinyl Acetate	100	103	0.216	0.010	-3.077	20.0	Quadratic	
1,1-Dichloroethane	50.0	46.9	0.578	0.200	6.14	20.0	Quadratic	
Chloroprene	0.551	0.482	0.482	0.100	12.6	20.0	Averaged	
2-Butanone	100	101	0.212	0.100	-1.435	20.0	Quadratic	
Methacrylonitrile	50.0	46.8	0.220	0.100	6.45	20.0	Quadratic	
2,2-Dichloropropane	0.441	0.411	0.411	0.100	6.84	20.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.369	0.369	0.100	14.7	20.0	Averaged	
Chloroform	50.0	47.4	0.605	0.200	5.27	20.0	Quadratic	
Bromochloromethane	50.0	49.0	0.185	0.100	1.97	20.0	Quadratic	
30 Dibromofluoromethane	50.0	56.1	0.366	0.100	-12.273	20.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.469	0.469	0.100	6.86	20.0	Averaged	
1,1-Dichloropropene	0.353	0.311	0.311	0.100	11.9	20.0	Averaged	
1,2-Dichloroethane	50.0	47.8	0.334	0.100	4.38	20.0	Quadratic	
Carbon Tetrachloride	0.287	0.263	0.263	0.100	8.38	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	55.8	0.442	0.100	-11.629	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project Groundwater Treatment Plant Quarterly Effluent Samples **HS24051276**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U052402.D

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
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	50.0	47.4	0.976	0.500	5.16	20.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.3	20.0	Averaged	
Bromodichloromethane	0.304	0.283	0.283	0.200	7.04	20.0	Averaged	
Methyl Methacrylate	50.0	49.5	0.128	0.100	0.965	20.0	Quadratic	
2-Chloroethylvinyl ether	100	93.1	0.098	0.001	6.87	20.0	Quadratic	
1,2-Dichloropropane	50.0	47.5	0.265	0.100	4.91	20.0	Quadratic	
2-Nitropropane	50.0	53.3	0.079	0.000	-6.570	20.0	Quadratic	
Dibromomethane	0.172	0.154	0.154	0.100	10.7	20.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.335	0.335	0.100	2.94	20.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.357	0.357	0.200	-1.615	20.0	Averaged	
48 Toluene-d8	50.0	59.3	1.10	0.100	-18.654	20.0	Quadratic	
Ethyl Methacrylate	0.369	0.325	0.325	0.100	12.0	20.0	Averaged	
Toluene	1.26	1.12	1.12	0.400	11.1	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	47.7	0.292	0.100	4.54	20.0	Quadratic	
2-Hexanone	0.231	0.217	0.217	0.100	6.21	20.0	Averaged	
1,1,2-Trichloroethane	50.0	49.0	0.217	0.100	2.09	20.0	Quadratic	
1,3-Dichloropropane	50.0	48.6	0.463	0.100	2.79	20.0	Quadratic	
Dibromochloromethane	0.245	0.246	0.246	0.100	-0.485	20.0	Averaged	
Tetrachloroethene	0.238	0.217	0.217	0.200	8.98	20.0	Averaged	
1,2-Dibromoethane	0.267	0.254	0.254	0.100	4.96	20.0	Averaged	
1-Chlorohexane	50.0	47.2	0.209	0.100	5.63	20.0	Quadratic	
Chlorobenzene	50.0	48.0	0.711	0.500	4.08	20.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.241	0.241	0.100	7.49	20.0	Averaged	
Ethylbenzene	0.405	0.362	0.362	0.100	10.7	20.0	Averaged	
m,p-Xylenes	0.497	0.460	0.460	0.100	7.61	20.0	Averaged	
o-Xylene	0.487	0.450	0.450	0.300	7.62	20.0	Averaged	
Styrene	0.826	0.785	0.785	0.300	4.91	20.0	Averaged	
Bromoform	50.0	45.4	0.151	0.100	9.22	20.0	Quadratic	
Isopropylbenzene	1.21	1.13	1.13	0.100	6.69	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	50.6	0.686	0.300	-1.190	20.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.1	0.406	0.100	-18.222	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	49.6	0.686	0.100	0.878	20.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	48.8	0.079	0.050	2.45	20.0	Quadratic	
n-Propylbenzene	2.58	2.45	2.45	0.100	5.31	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051276

Project Groundwater Treatment Plant Quarterly Effluent Samples

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.568	0.568	0.100	13.7	20.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.72	1.72	0.100	3.52	20.0	Averaged	
2-Chlorotoluene	1.67	1.46	1.46	0.100	12.5	20.0	Averaged	
4-Chlorotoluene	1.91	1.71	1.71	0.100	10.2	20.0	Averaged	
tert-Butylbenzene	1.56	1.47	1.47	0.100	6.18	20.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.71	1.71	0.100	6.27	20.0	Averaged	
sec-Butylbenzene	2.08	1.98	1.98	0.100	4.91	20.0	Averaged	
p-Isopropyltoluene	1.81	1.76	1.76	0.100	2.47	20.0	Averaged	
1,3-Dichlorobenzene	50.0	48.5	1.02	0.600	2.98	20.0	Quadratic	
1,4-Dichlorobenzene	50.0	48.8	1.07	0.400	2.33	20.0	Quadratic	
Benzyl Chloride	50.0	50.9	0.325	0.010	-1.832	20.0	Quadratic	
n-Butylbenzene	50.0	46.8	1.56	0.500	6.44	20.0	Quadratic	
1,2-Dichlorobenzene	50.0	48.5	1.01	0.400	3.04	20.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	48.0	0.081	0.050	4.08	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.664	0.664	0.200	11.5	20.0	Averaged	
Hexachlorobutadiene	50.0	47.0	0.284	0.100	6.02	20.0	Quadratic	
Naphthalene	1.59	1.64	1.64	0.200	-3.255	20.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.628	0.628	0.100	10.2	20.0	Averaged	
Methyl Acetate	50.0	53.7	0.419	0.100	-7.402	20.0	Quadratic	
Freon TF	0.538	0.517	0.517	0.100	3.93	20.0	Averaged	
Cyclohexane	50.0	48.0	0.528	0.100	4.08	20.0	Quadratic	
Tetrahydrofuran	100	101	0.065	0.001	-1.375	20.0	Quadratic	
Methylcyclohexane	0.600	0.566	0.566	0.100	5.63	20.0	Averaged	
1,4-Dioxane	1000	899	0.003	0.001	10.1	20.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	6.57	20.0	Averaged	
n-Hexane	50.0	50.6	0.363	0.100	-1.199	20.0	Quadratic	
Diethyl ether	50.0	45.4	0.216	0.100	9.11	20.0	Quadratic	
Tert-butyl alcohol	1000	1106	0.025	0.005	-10.574	20.0	Quadratic	
Isopropyl alcohol	1000	1060	0.019	0.005	-5.993	20.0	Quadratic	
Amyl alcohol	1000	1023	0.008	0.005	-2.307	20.0	Quadratic	
Diisopropyl ether	50.0	44.4	1.02	0.100	11.1	20.0	Quadratic	
Butyl acrylate	0.529	0.460	0.460	0.100	12.9	20.0	Averaged	
n-Amyl acetate	50.0	48.8	0.488	0.100	2.34	20.0	Quadratic	
Dicyclopentadiene	50.0	44.6	1.95	0.100	10.8	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051276

Project Groundwater Treatment Plant Quarterly Effluent Samples

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.50	1.50	0.100	11.4	20.0	Averaged	
Ethanol	1000	1045	0.004	0.001	-4.456	20.0	Quadratic	
tert-Butyl formate	100	119	0.265	0.100	-19.217	20.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1097	0.029	0.005	-9.746	20.0	Quadratic	
tert-Amyl methyl ether	1.11	0.951	0.951	0.005	14.0	20.0	Averaged	
tert-Butyl ethyl ether	1.11	0.906	0.906	0.100	18.5	20.0	Averaged	
tert-Amyl alcohol	1000	1177	0.027	0.005	-17.674	20.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.075	0.075	0.005	-0.276	20.0	Averaged	
1,3-Butadiene	0.198	0.185	0.185	0.100	6.18	20.0	Averaged	
Epichlorohydrin	200	210	0.017	0.001	-4.875	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.337	0.337	0.200	15.0	20.0	Averaged	
95 Xylenes (total)	0.446	0.413	0.413	0.100	7.37	20.0	Averaged	
alpha-Methylstyrene	0.732	0.696	0.696	0.100	4.95	20.0	Averaged	
Ethyl Acetate	50.0	51.6	0.432	0.100	-3.167	20.0	Quadratic	
Methyl Acrylate	50.0	47.8	0.410	0.100	4.32	20.0	Quadratic	
n-Butyl acetate	0.516	0.481	0.481	0.100	6.74	20.0	Averaged	
Cyclohexanone	1000	910	0.024	0.005	8.97	20.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.86	20.0	Averaged	
Isopropyl acetate	50.0	51.5	0.746	0.100	-2.993	20.0	Quadratic	
Allyl alcohol	1000	1012	0.018	0.004	-1.199	20.0	Quadratic	
Acetaldehyde	0.067	0.069	0.069	0.001	-2.091	20.0	Averaged	
Methyl Amyl Ketone	0.627	0.558	0.558	0.100	11.1	20.0	Averaged	
Dimethyl Disulfide	50.0	38.8	0.130	0.020	22.4	20.0	Quadratic	*
Isobutylene	50.0	46.5	0.114	0.010	7.04	20.0	Quadratic	
Ethyl Acrylate	0.882	0.815	0.815	0.100	7.54	20.0	Averaged	
Butyl methacrylate	50.0	44.9	0.501	0.100	10.3	20.0	Quadratic	
Propylene oxide	100	90.8	0.024	0.005	9.17	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	47.1	0.457	0.100	5.78	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051276

Project Groundwater Treatment Plant Quarterly Effluent Samples

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
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	0.267	0.248	0.248	0.100	7.04	50.0	Averaged	
Chloromethane	50.0	44.7	0.825	0.100	10.6	50.0	Quadratic	
Propionitrile	500	583	0.059	0.010	-16.543	50.0	Quadratic	
Vinyl Chloride	0.453	0.396	0.396	0.100	12.5	50.0	Averaged	
Bromomethane	50.0	52.6	0.145	0.100	-5.236	50.0	Quadratic	
Chloroethane	0.319	0.271	0.271	0.100	15.2	50.0	Averaged	
Trichlorofluoromethane	0.517	0.481	0.481	0.100	7.00	50.0	Averaged	
Acrolein	100	98.9	0.018	0.010	1.12	50.0	Quadratic	
Acetone	100	92.2	0.131	0.100	7.76	50.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.5	50.0	Averaged	
Isobutyl Alcohol	1000	1016	0.053	0.005	-1.576	50.0	Quadratic	
Acetonitrile	0.041	0.039	0.039	0.005	5.00	50.0	Averaged	
Allyl Chloride	50.0	52.1	0.948	0.100	-4.107	50.0	Quadratic	
Iodomethane	100	70.7	0.042	0.100	29.3	50.0	Quadratic	
Acrylonitrile	100	108	0.140	0.050	-8.453	50.0	Quadratic	
Methylene Chloride	50.0	47.4	0.350	0.100	5.12	50.0	Quadratic	
Methyl tert-butyl ether	50.0	54.4	0.934	0.100	-8.869	50.0	Quadratic	
Carbon Disulfide	0.952	0.811	0.811	0.100	14.8	50.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.302	0.302	0.100	16.3	50.0	Averaged	
Vinyl Acetate	100	92.8	0.194	0.010	7.24	50.0	Quadratic	
1,1-Dichloroethane	50.0	47.6	0.586	0.200	4.88	50.0	Quadratic	
Chloroprene	0.551	0.484	0.484	0.100	12.1	50.0	Averaged	
2-Butanone	100	90.1	0.188	0.100	9.91	50.0	Quadratic	
Methacrylonitrile	50.0	52.0	0.246	0.100	-3.980	50.0	Quadratic	
2,2-Dichloropropane	0.441	0.327	0.327	0.100	25.8	50.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.360	0.360	0.100	16.9	50.0	Averaged	
Chloroform	50.0	47.0	0.600	0.200	6.03	50.0	Quadratic	
Bromochloromethane	50.0	48.7	0.184	0.100	2.51	50.0	Quadratic	
30 Dibromofluoromethane	50.0	57.3	0.374	0.100	-14.700	50.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.470	0.470	0.100	6.83	50.0	Averaged	
1,1-Dichloropropene	0.353	0.309	0.309	0.100	12.6	50.0	Averaged	
1,2-Dichloroethane	50.0	47.1	0.329	0.100	5.85	50.0	Quadratic	
Carbon Tetrachloride	0.287	0.259	0.259	0.100	9.91	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.3	0.446	0.100	-12.683	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
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	50.0	46.7	0.961	0.500	6.60	50.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.5	50.0	Averaged	
Bromodichloromethane	0.304	0.280	0.280	0.200	7.88	50.0	Averaged	
Methyl Methacrylate	50.0	54.5	0.141	0.100	-8.905	50.0	Quadratic	
2-Chloroethylvinyl ether	100	73.1	0.076	0.001	26.9	50.0	Quadratic	
1,2-Dichloropropane	50.0	46.4	0.259	0.100	7.16	50.0	Quadratic	
2-Nitropropane	50.0	56.7	0.084	0.000	-13.367	50.0	Quadratic	
Dibromomethane	0.172	0.147	0.147	0.100	14.5	50.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.307	0.307	0.100	11.0	50.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.328	0.328	0.200	6.66	50.0	Averaged	
48 Toluene-d8	50.0	60.4	1.12	0.100	-20.705	50.0	Quadratic	
Ethyl Methacrylate	0.369	0.377	0.377	0.100	-2.100	50.0	Averaged	
Toluene	1.26	1.09	1.09	0.400	13.8	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.4	0.265	0.100	13.2	50.0	Quadratic	
2-Hexanone	0.231	0.189	0.189	0.100	18.3	50.0	Averaged	
1,1,2-Trichloroethane	50.0	46.8	0.207	0.100	6.40	50.0	Quadratic	
1,3-Dichloropropane	50.0	46.8	0.446	0.100	6.40	50.0	Quadratic	
Dibromochloromethane	0.245	0.238	0.238	0.100	2.87	50.0	Averaged	
Tetrachloroethene	0.238	0.211	0.211	0.200	11.3	50.0	Averaged	
1,2-Dibromoethane	0.267	0.237	0.237	0.100	11.3	50.0	Averaged	
1-Chlorohexane	50.0	44.1	0.196	0.100	11.8	50.0	Quadratic	
Chlorobenzene	50.0	46.9	0.695	0.500	6.28	50.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.236	0.236	0.100	9.50	50.0	Averaged	
Ethylbenzene	0.405	0.351	0.351	0.100	13.3	50.0	Averaged	
m,p-Xylenes	0.497	0.441	0.441	0.100	11.4	50.0	Averaged	
o-Xylene	0.487	0.442	0.442	0.300	9.14	50.0	Averaged	
Styrene	0.826	0.752	0.752	0.300	8.94	50.0	Averaged	
Bromoform	50.0	43.7	0.145	0.100	12.7	50.0	Quadratic	
Isopropylbenzene	1.21	1.10	1.10	0.100	8.91	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	45.6	0.618	0.300	8.82	50.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.7	0.410	0.100	-19.493	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	44.1	0.608	0.100	11.9	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	40.5	0.065	0.050	19.1	50.0	Quadratic	
n-Propylbenzene	2.58	2.35	2.35	0.100	9.06	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.550	0.550	0.100	16.4	50.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.65	1.65	0.100	7.58	50.0	Averaged	
2-Chlorotoluene	1.67	1.43	1.43	0.100	14.8	50.0	Averaged	
4-Chlorotoluene	1.91	1.64	1.64	0.100	14.1	50.0	Averaged	
tert-Butylbenzene	1.56	1.42	1.42	0.100	9.13	50.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.61	1.61	0.100	11.7	50.0	Averaged	
sec-Butylbenzene	2.08	1.90	1.90	0.100	8.70	50.0	Averaged	
p-Isopropyltoluene	1.81	1.66	1.66	0.100	8.32	50.0	Averaged	
1,3-Dichlorobenzene	50.0	45.7	0.965	0.600	8.59	50.0	Quadratic	
1,4-Dichlorobenzene	50.0	46.0	1.01	0.400	8.04	50.0	Quadratic	
Benzyl Chloride	50.0	30.0	0.187	0.010	40.1	50.0	Quadratic	
n-Butylbenzene	50.0	41.9	1.39	0.500	16.2	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	45.7	0.951	0.400	8.53	50.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	42.2	0.071	0.050	15.6	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.601	0.601	0.200	19.9	50.0	Averaged	
Hexachlorobutadiene	50.0	41.7	0.252	0.100	16.6	50.0	Quadratic	
Naphthalene	1.59	1.43	1.43	0.200	10.2	50.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.544	0.544	0.100	22.2	50.0	Averaged	
Methyl Acetate	50.0	48.6	0.380	0.100	2.89	50.0	Quadratic	
Freon TF	0.538	0.552	0.552	0.100	-2.582	50.0	Averaged	
Cyclohexane	50.0	47.6	0.524	0.100	4.81	50.0	Quadratic	
Tetrahydrofuran	100	115	0.074	0.001	-14.505	50.0	Quadratic	
Methylcyclohexane	0.600	0.646	0.646	0.100	-7.555	50.0	Averaged	
1,4-Dioxane	1000	1061	0.004	0.001	-6.134	50.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	0.907	50.0	Averaged	
n-Hexane	50.0	42.3	0.303	0.100	15.3	50.0	Quadratic	
Diethyl ether	50.0	54.2	0.258	0.100	-8.362	50.0	Quadratic	
Tert-butyl alcohol	1000	1175	0.026	0.005	-17.529	50.0	Quadratic	
Isopropyl alcohol	1000	1171	0.021	0.005	-17.077	50.0	Quadratic	
Amyl alcohol	1000	1108	0.008	0.005	-10.820	50.0	Quadratic	
Diisopropyl ether	50.0	54.2	1.25	0.100	-8.432	50.0	Quadratic	
Butyl acrylate	0.529	0.528	0.528	0.100	0.065	50.0	Averaged	
n-Amyl acetate	50.0	47.0	0.469	0.100	5.99	50.0	Quadratic	
Dicyclopentadiene	50.0	53.5	2.34	0.100	-7.045	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project Groundwater Treatment Plant Quarterly Effluent Samples **HS24051276**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U052429.D

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.79	1.79	0.100	-5.341	50.0	Averaged	
Ethanol	1000	1179	0.004	0.001	-17.874	50.0	Quadratic	
tert-Butyl formate	100	122	0.273	0.100	-22.117	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1197	0.032	0.005	-19.705	50.0	Quadratic	
tert-Amyl methyl ether	1.11	1.12	1.12	0.005	-1.341	50.0	Averaged	
tert-Butyl ethyl ether	1.11	1.10	1.10	0.100	1.05	50.0	Averaged	
tert-Amyl alcohol	1000	1206	0.027	0.005	-20.596	50.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.083	0.083	0.005	-10.933	50.0	Averaged	
1,3-Butadiene	0.198	0.182	0.182	0.100	7.81	50.0	Averaged	
Epichlorohydrin	200	203	0.016	0.001	-1.620	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.331	0.331	0.200	16.6	50.0	Averaged	
95 Xylenes (total)	0.446	0.399	0.399	0.100	10.6	50.0	Averaged	
alpha-Methylstyrene	0.732	0.658	0.658	0.100	10.2	50.0	Averaged	
Ethyl Acetate	50.0	46.4	0.388	0.100	7.15	50.0	Quadratic	
Methyl Acrylate	50.0	55.0	0.472	0.100	-9.937	50.0	Quadratic	
n-Butyl acetate	0.516	0.438	0.438	0.100	15.1	50.0	Averaged	
Cyclohexanone	1000	1047	0.028	0.005	-4.661	50.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.56	50.0	Averaged	
Isopropyl acetate	50.0	50.4	0.730	0.100	-0.817	50.0	Quadratic	
Allyl alcohol	1000	847	0.015	0.004	15.3	50.0	Quadratic	
Acetaldehyde	0.067	0.104	0.104	0.001	-55.054	50.0	Averaged	
Methyl Amyl Ketone	0.627	0.632	0.632	0.100	-0.779	50.0	Averaged	
Dimethyl Disulfide	50.0	46.1	0.159	0.020	7.78	50.0	Quadratic	
Isobutylene	++++	++++	1.200e+65	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	0.882	0.937	0.937	0.100	-6.330	50.0	Averaged	
Butyl methacrylate	50.0	54.2	0.607	0.100	-8.364	50.0	Quadratic	
Propylene oxide	100	90.3	0.024	0.005	9.74	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	52.1	0.512	0.100	-4.202	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS24051276

EPA SW8260

VOA9_467761		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)	U052402.D	250537	#	4.82	#	360480	#	5.55	#	326475	#	8.19	#	177240	#	10.17	#
HS24051276-01	U052414.D	236608		4.81		353791		5.55		321745		8.18		162047		10.17	
HS24051276-03	U052411.D	235802		4.82		345752		5.55		314138		8.19		156995		10.17	
VBLKW-240524	U052406.D	246217		4.81		360374		5.55		327810		8.18		167574		10.17	
VLCSDW-240524	U052404.D	247860		4.81		366459		5.55		328317		8.18		176750		10.17	
VLCSW-240524	U052403.D	248200		4.81		359699		5.55		318485		8.19		167134		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

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS24051276**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467470

Run ID VOA9_467470 **Start Date** 05/22/24 **EndDate** 05/23/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
20:22	VSTD00.25	ICAL1	VSTD00.25	V052202.D	05/22/24	1
20:44	VSTD00.5	ICAL2	VSTD00.5	V052203.D	05/22/24	1
21:05	VSTD001	ICAL3	VSTD001	V052204.D	05/22/24	1
21:27	VSTD002	ICAL4	VSTD002	V052205.D	05/22/24	1
21:48	VSTD005	ICAL5	VSTD005	V052206.D	05/22/24	1
22:10	VSTD020	ICAL6	VSTD020	V052207.D	05/22/24	1
22:31	VSTD050	ICAL7	VSTD050	V052208.D	05/22/24	1
22:53	VSTD100	ICAL8	VSTD100	V052209.D	05/22/24	1
23:14	VSTD150	ICAL9	VSTD150	V052210.D	05/22/24	1
23:36	VSTD200	ICAL	VSTD200	V052211.D	05/22/24	1
00:40	VSTD050	ICV	VSTD050	V052214.D	05/23/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS24051276**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

Run ID VOA9_467761 **Start Date** 05/24/24 **EndDate** 05/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:52	VSTD050	CCV	VSTD050	U052402.D	05/24/24	1
13:13	VLCSW-240524	LCS	VLCSW-240524	U052403.D	05/24/24	1
13:35	VLCSDW-240524	LCSD	VLCSDW-240524	U052404.D	05/24/24	1
14:18	VBLKW-240524	MBLK	VBLKW-240524	U052406.D	05/24/24	1
16:05	HS24051276-03	SAMP	Trip Blank	U052411.D	05/24/24	1
16:27	HS24051277-02	SAMP	ZZZZZZZZZZ	U052412.D	05/24/24	1
16:49	HS24051300-10	SAMP	ZZZZZZZZZZ	U052413.D	05/24/24	1
17:10	HS24051276-01	SAMP	LH18/24-	U052414.D	05/24/24	1
17:32	HS24051300-01	SAMP	ZZZZZZZZZZ	U052415.D	05/24/24	1
17:53	HS24051300-02	SAMP	ZZZZZZZZZZ	U052416.D	05/24/24	1
18:15	HS24051300-03	SAMP	ZZZZZZZZZZ	U052417.D	05/24/24	1
19:20	HS24051228-01	SAMP	ZZZZZZZZZZ	U052420.D	05/24/24	5000
19:44	HS24051300-06	SAMP	ZZZZZZZZZZ	U052421.D	05/24/24	5
20:08	HS24051277-01	SAMP	ZZZZZZZZZZ	U052422.D	05/24/24	25
22:38	VSTD050	CCV_END	VSTD050	U052429.D	05/24/24	1

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RawData

<textMethods>

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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\U240523.b\V052201.D Page 1
Report Date: 23-May-2024 09:01

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-MAY-2024 20:01
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\U240523.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: 28 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	
9.194	9.180 (0.000)		95	63648			0.00- 100.00	100.00
9.194	9.180 (0.000)		50	11622			15.00- 40.00	18.26
9.194	9.180 (0.000)		75	30160			30.00- 60.00	47.39
9.194	9.180 (0.000)		96	4229			5.00- 9.00	6.64
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	59736			50.00- 0.00	93.85
9.194	9.180 (0.000)		175	5276			5.00- 9.00	8.83
9.194	9.180 (0.000)		176	58936			95.00- 101.00	98.66
9.194	9.180 (0.000)		177	3743			5.00- 9.00	6.35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	47.39
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.85
175	5.00 - 9.00% of mass 174	8.29 (8.83)
176	95.00 - 101.00% of mass 174	92.60 (98.66)
177	5.00 - 9.00% of mass 176	5.88 (6.35)

Data File: V052201.D
Spectrum: Scan 2296 (9.20)
Location of Maximum: 95.05
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	563	63.00	2132	92.00	1742	140.90	612
37.10	3027	63.90	318	93.00	2576	141.90	135
38.00	2791	65.00	268	94.00	7830	142.90	699
39.00	1025	68.00	6225	95.00	63648	144.80	92
40.00	186	69.00	6319	96.00	4229	145.80	122
41.10	53	69.90	501	97.00	136	147.90	183
44.00	463	71.30	52	103.90	256	150.00	85
45.00	614	72.10	380	104.80	101	153.00	57
47.00	1051	73.00	2741	106.00	242	154.90	181
47.90	438	74.00	10686	106.80	79	156.90	128
49.00	2566	75.00	30160	109.90	67	158.80	109
50.00	11622	76.00	2524	110.90	84	160.60	56
51.00	3643	76.90	423	115.80	213	171.90	389
52.00	158	77.80	228	116.90	487	173.90	59736
52.90	56	78.90	1553	117.80	250	175.10	5276
55.00	170	80.00	493	118.80	372	175.90	58936
56.00	949	80.90	1680	127.90	266	176.90	3743
57.00	1780	81.90	355	128.80	142	177.80	82
58.00	93	83.10	60	130.00	270		
60.00	596	87.00	3069	130.80	83		
61.00	2733	88.00	2717	134.90	108		
62.00	2666	91.00	242	136.90	76		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052201.d Page 1

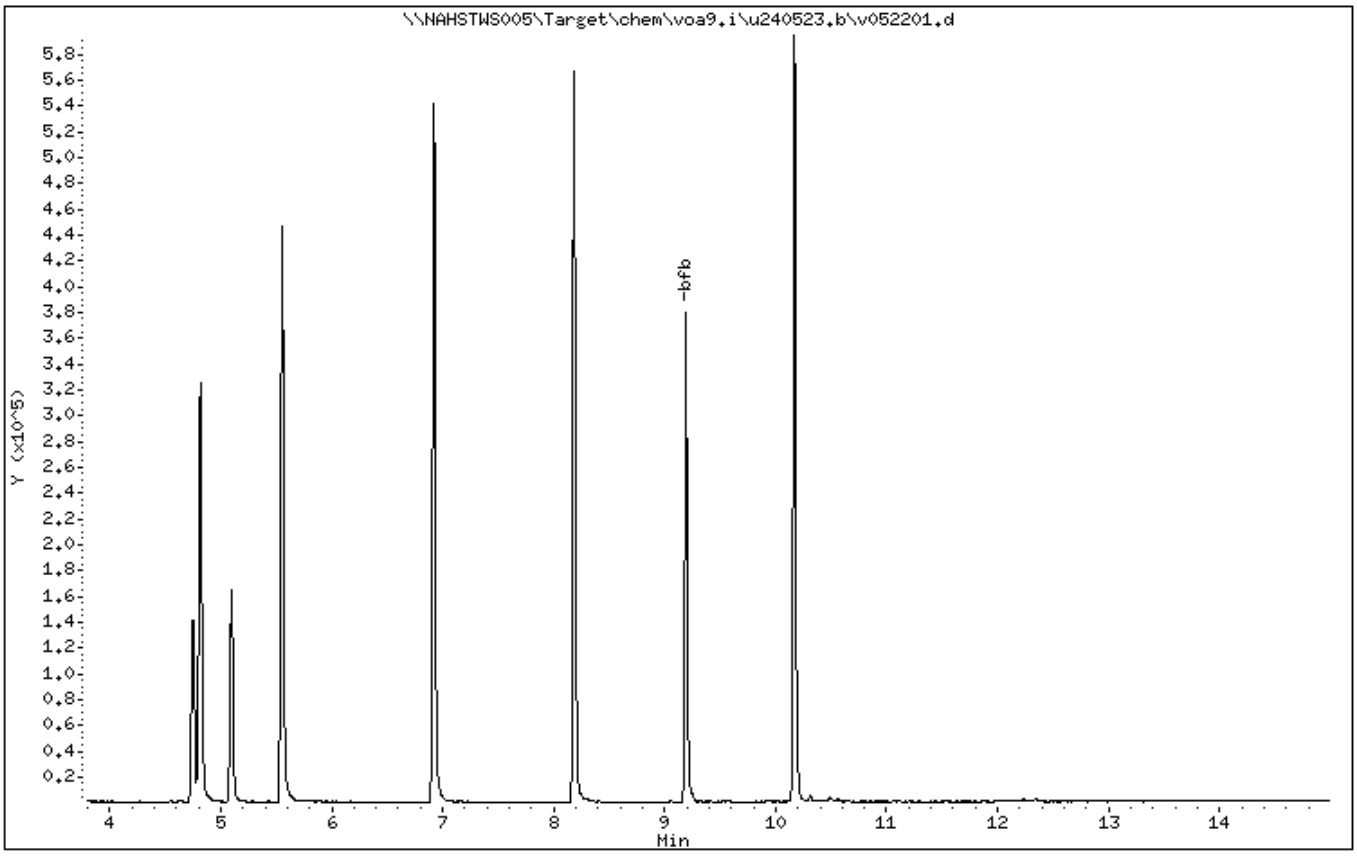
Date : 22-MAY-2024 20:01

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\u240523.b\v052201.d
Inj Date : 22-MAY-2024 20:01
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 22-MAY-2024 20:22
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\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 29 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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

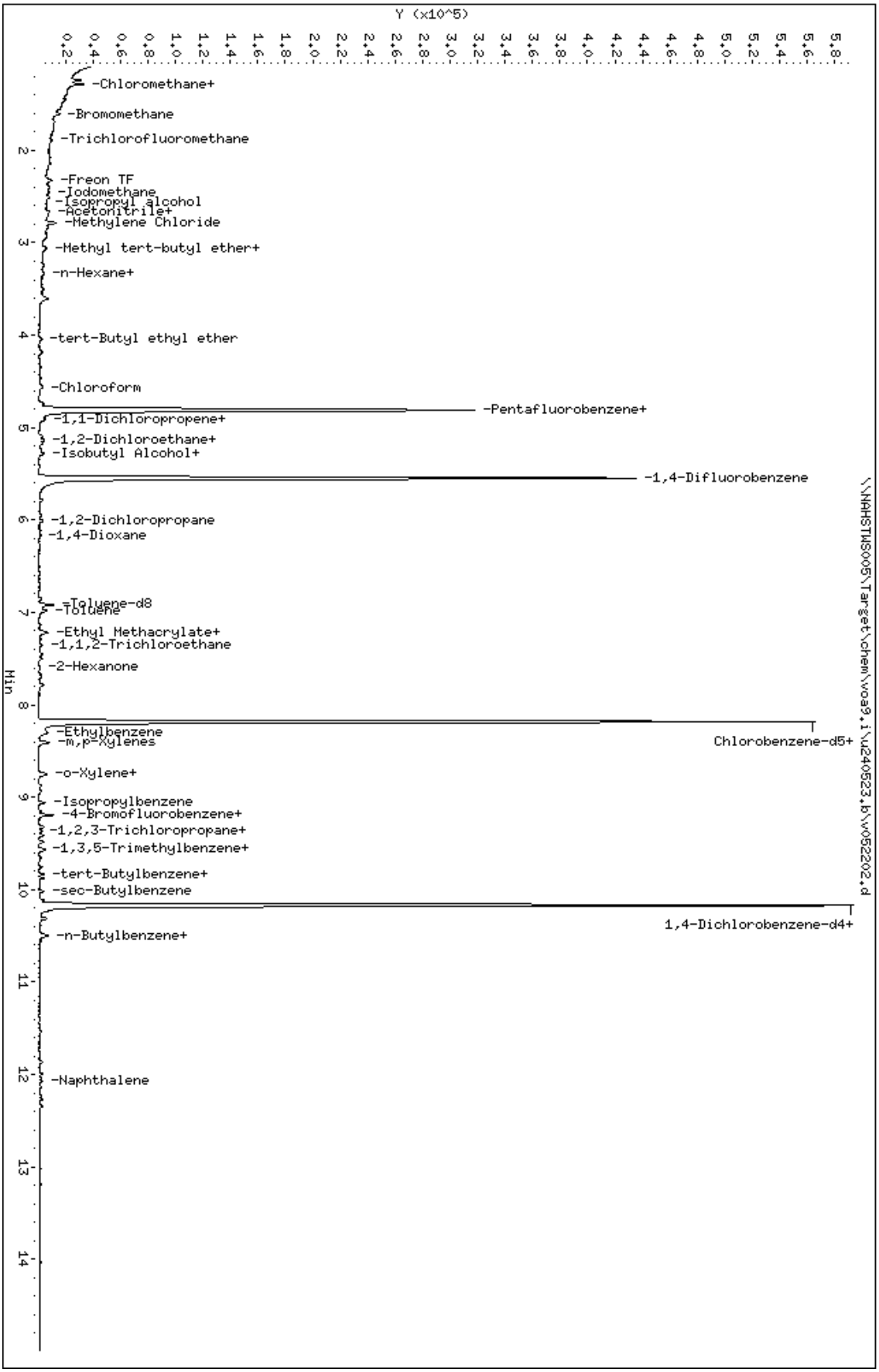
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.811	(1.000)	232479	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.007	(0.209)	10432	0.25000	8.41
	3 Chloromethane	50	1.288	1.288	(0.268)	8247	0.25000	1.14
	5 Vinyl Chloride	62	1.370	1.370	(0.285)	918	0.25000	0.43(a)
	6 Bromomethane	94	1.610	1.610	(0.335)	1392	0.25000	1.20
	8 Trichlorofluoromethane	101	1.884	1.884	(0.392)	1078	0.25000	0.44(a)
	12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	1728	5.00000	6.15(a)
	13 Acetonitrile	39	2.667	2.667	(0.554)	837	2.50000	4.35(a)
	14 Allyl Chloride	41	2.663	2.663	(0.554)	1717	0.25000	0.34(a)
	15 Iodomethane	142	2.457	2.457	(0.511)	1022	0.50000	2.34(T)
	17 Methylene Chloride	84	2.783	2.783	(0.579)	3291	0.25000	1.14
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1715	0.25000	0.36(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	695	0.25000	0.41(Ta)
	28 Chloroform	83	4.568	4.568	(0.949)	1332	0.25000	0.39(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1338	0.25000	0.79
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	914	0.25000	0.39(a)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	1320	0.25000	0.53
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	1065	0.25000	0.39(a)
	34 Carbon Tetrachloride	117	4.901	4.901	(0.884)	654	0.25000	0.32(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	1960	50.0000	0.92(T)

*	36 1,4-Difluorobenzene	114	5.546	5.546 (1.000)	346650	50.0000	
	37 Benzene	78	5.134	5.134 (0.926)	3079	0.25000	0.38(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.084)	948	0.25000	0.43(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	307836	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	6724	50.0000	1.07(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	731	0.25000	0.28(a)
	50 Toluene	91	6.978	6.978	(0.853)	3474	0.25000	0.44(a)
	52 2-Hexanone	43	7.597	7.597	(0.929)	973	0.50000	0.68(Ta)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	605	0.25000	0.39(a)
	58 1-Chlorohexane	55	8.182	8.182	(1.475)	3533	0.25000	1.27(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	2246	0.25000	0.42(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1076	0.25000	0.43(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	2145	0.50000	0.70(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	1112	0.25000	0.37(a)
	64 Styrene	104	8.763	8.763	(1.071)	1442	0.25000	0.28(a)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	2545	0.25000	0.34(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3188	50.0000	1.33(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	154174	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	859	0.25000	0.36(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	3118	0.25000	0.39(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	807	0.25000	0.39(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1792	0.25000	0.32(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	1993	0.25000	0.38(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	2268	0.25000	0.38(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	1705	0.25000	0.35(a)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1840	0.25000	0.32(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	2367	0.25000	0.36(a)
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	1945	0.25000	0.34(a)
	83 1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.54(a)
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.48(a)
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	2454	0.25000	0.45(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1467	0.25000	0.39(a)
	92 Naphthalene	128	12.073	12.073	(1.187)	1592	0.25000	0.32(a)
	138 Freon TF	101	2.326	2.326	(0.483)	798	0.25000	0.31(a)
	141 Cyclohexane	56	4.808	4.808	(0.999)	5173	0.25000	1.22(a)
	135 1,4-Dioxane	88	6.176	6.176	(1.284)	280	5.00000	10.63(aM)
	136 n-Hexane	57	3.331	3.331	(0.692)	905	0.25000	0.49(a)
	149 Isopropyl alcohol	45	2.558	2.558	(0.532)	1185	5.00000	10.63(T)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1772	0.25000	0.33(a)
	174 tert-Amyl methyl ether	73	5.276	5.276	(1.097)	1715	0.25000	0.33(Ta)
	175 tert-Butyl ethyl ether	59	4.035	4.035	(0.839)	1741	0.25000	0.33(a)
	176 tert-Amyl alcohol	59	5.239	5.239	(1.089)	904	5.00000	6.78
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3849	5.00000	7.42
M	94 1,2-Dichloroethylene (total)	96				695	0.50000	(a)
	134 Cyclohexanone	55	9.152	9.152	(0.900)	673	5.00000	7.55(Ta)
	150 Allyl alcohol	57	3.331	3.331	(0.692)	905	5.00000	9.95

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: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

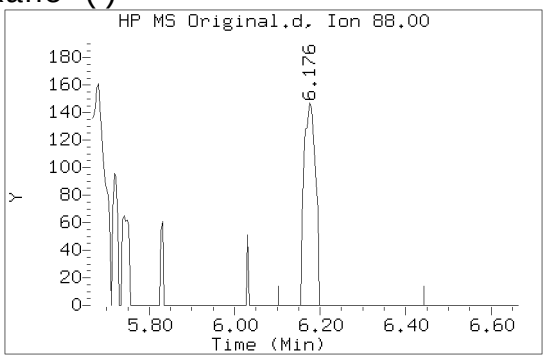
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LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

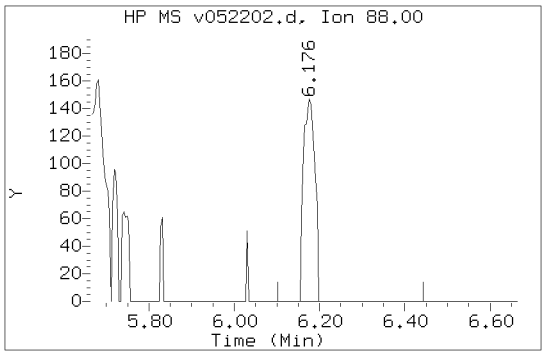
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23-May-2024
09:51
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tastan



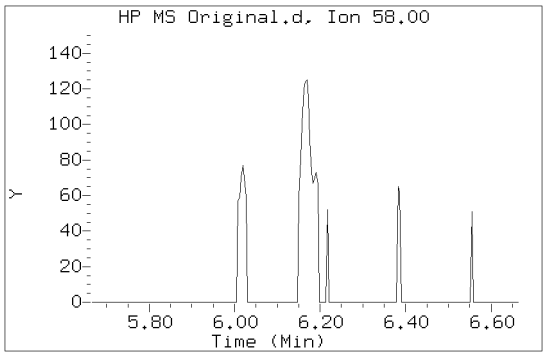
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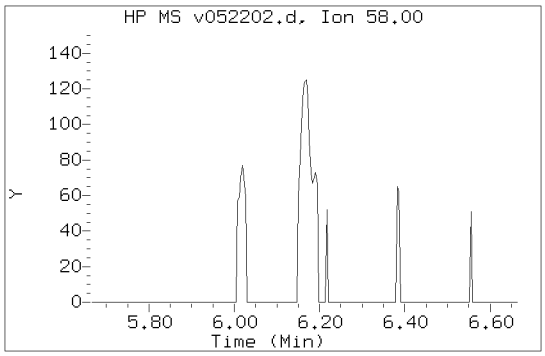
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AFTER

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23-May-2024
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D
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Inj Date : 22-MAY-2024 20:44
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 : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 20:22 Cal File: V052202.D
Als bottle: 30 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	232568	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	744	0.50000	0.59(M)
3 Chloromethane	50	1.299	1.299	(0.270)	9635	0.50000	1.33
4 Propionitrile	54	4.350	4.350	(0.903)	1689	5.00000	5.74(aM)
5 Vinyl Chloride	62	1.381	1.381	(0.287)	1278	0.50000	0.60
6 Bromomethane	94	1.621	1.621	(0.337)	1387	0.50000	1.20
7 Chloroethane	64	1.704	1.704	(0.354)	863	0.50000	0.59(M)
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	1363	0.50000	0.56
9 Acrolein	56	2.281	2.281	(0.474)	256	1.00000	2.11(aM)
10 Acetone	43	2.412	2.412	(0.501)	2401	1.00000	2.86
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	799	0.50000	0.54(M)
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	3376	10.0000	12.02(Ta)
13 Acetonitrile	39	2.675	2.675	(0.555)	1051	5.00000	5.47(a)
14 Allyl Chloride	41	2.675	2.675	(0.555)	3162	0.50000	0.63(a)
15 Iodomethane	142	2.468	2.468	(0.513)	972	1.00000	2.22(T)
16 Acrylonitrile	53	3.072	3.072	(0.638)	887	1.00000	1.20
17 Methylene Chloride	84	2.798	2.798	(0.581)	3393	0.50000	1.17
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2576	0.50000	0.55
19 Carbon Disulfide	76	2.525	2.525	(0.524)	5214	1.00000	1.17
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1021	0.50000	0.60

21 Vinyl Acetate	43	4.347	4.347 (0.903)	1730	1.00000	1.50(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	2200	0.50000	0.65(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	1472	0.50000	0.57(aM)
24	2-Butanone	43	4.283	4.283	(0.889)	1551	1.00000	1.43(M)
25	Methacrylonitrile	41	4.512	4.512	(0.937)	666	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1245	0.50000	0.60(M)
27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1145	0.50000	0.56
28	Chloroform	83	4.579	4.579	(0.951)	2029	0.50000	0.60
29	Bromochloromethane	128	4.467	4.467	(0.928)	572	0.50000	0.57(M)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	1204	0.50000	0.71
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1166	0.50000	0.49(a)
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	1600	0.50000	0.65
33	1,2-Dichloroethane	62	5.183	5.183	(0.933)	1661	0.50000	0.61
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	1115	0.50000	0.56
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1807	0.50000	0.85(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	344705	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	4963	0.50000	0.63
38	Trichloroethene	130	5.786	5.786	(1.042)	1137	0.50000	0.59(a)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	1006	0.50000	0.47(aM)
40	Methyl Methacrylate	41	5.835	5.835	(1.212)	284	0.50000	0.39(aM)
41	2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	481	1.00000	0.71(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	1434	0.50000	0.65(a)
43	2-Nitropropane	43	6.510	6.510	(1.352)	138	0.50000	0.34(aM)
44	Dibromomethane	93	6.120	6.120	(1.102)	619	0.50000	0.52(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2364	1.00000	1.11(a)
46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1137	0.50000	0.46(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	307301	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	5599	0.50000	0.89(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1247	0.50000	0.49(aM)
50	Toluene	91	6.982	6.982	(0.853)	4848	0.50000	0.62(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	806	0.50000	0.42(aM)
52	2-Hexanone	43	7.597	7.597	(0.928)	1763	1.00000	1.24(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	940	0.50000	0.61(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1916	0.50000	0.59(aM)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	646	0.50000	0.42(aM)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	868	0.50000	0.59(a)
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	838	0.50000	0.50(a)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3782	0.50000	1.36(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	3466	0.50000	0.65(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	811	0.50000	0.50(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	1469	0.50000	0.59(a)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	3456	1.00000	1.13(a)
63	o-Xylene	106	8.748	8.748	(1.069)	1659	0.50000	0.55(a)
64	Styrene	104	8.766	8.766	(1.071)	2610	0.50000	0.51(a)
66	Bromoform	173	8.916	8.916	(1.089)	392	0.50000	0.41(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	4153	0.50000	0.55(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1392	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2573	0.50000	1.07(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	157411	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1521	0.50000	0.63(a)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	267	0.50000	0.48(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	4473	0.50000	0.55(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	1115	0.50000	0.53(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3003	0.50000	0.53(a)

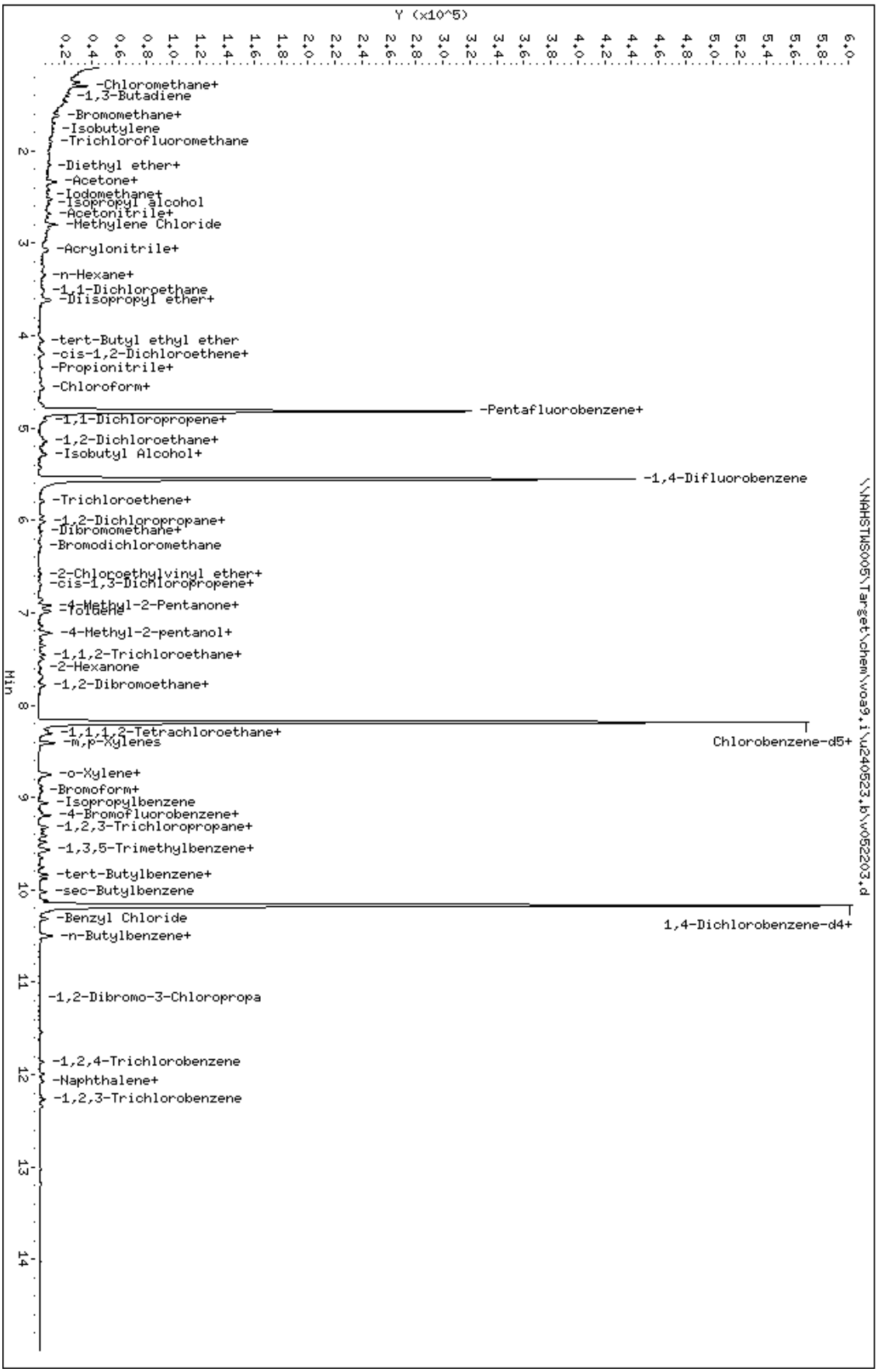
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	2994	0.50000	0.56(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	3281	0.50000	0.54(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 3
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	2597	0.50000	0.52(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3521	0.50000	0.61(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	3488	0.50000	0.53(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	2911	0.50000	0.51(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	2161	0.50000	0.58(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3093	0.50000	0.74(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	4426	0.50000	1.31(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	3735	0.50000	0.67(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2392	0.50000	0.63(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.099)	132	0.50000	0.49(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1398	0.50000	0.59(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	739	0.50000	0.71(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	2546	0.50000	0.50(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	1339	0.50000	0.60(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1546	0.50000	0.66(aM)
138	Freon TF	101	2.341	2.341	(0.486)	1173	0.50000	0.46(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	5290	0.50000	1.25(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	1777	0.50000	0.42(a)
135	1,4-Dioxane	88	6.176	6.176	(1.283)	374	10.0000	14.20(aM)
132	n-Butanol	56	5.839	5.839	(1.213)	459	10.0000	10.47(aM)
136	n-Hexane	57	3.349	3.349	(0.696)	1310	0.50000	0.72(Ta)
139	Diethyl ether	59	2.150	2.150	(0.447)	778	0.50000	0.60(aM)
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	1855	10.0000	13.41(M)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1468	10.0000	13.16(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	903	10.0000	16.75(M)
156	Diisopropyl ether	45	3.627	3.627	(0.753)	3742	0.50000	0.61(aM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1919	0.50000	0.55(aM)
164	Dicyclopentadiene	66	10.195	10.195	(1.003)	6100	0.50000	0.74(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2789	0.50000	0.52(a)
167	Ethanol	45	2.094	2.094	(0.435)	322	10.0000	14.15(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1386	1.00000	1.03(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	2315	10.0000	11.39(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	2738	0.50000	0.53(Ta)
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.843)	2911	0.50000	0.56(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	1386	10.0000	10.39
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	4329	10.0000	8.39
140	1,3-Butadiene	54	1.408	1.408	(0.292)	594	0.50000	0.64(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.194)	205	2.00000	1.63(aM)
M 94	1,2-Dichloroethylene (total)	96				2166	1.00000	(a)
130	Ethyl Acetate	43	4.347	4.347	(0.903)	1741	0.50000	0.76(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1203	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1715	0.50000	0.54(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	937	10.0000	10.29(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	204	0.50000	0.51(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	3832	0.50000	0.66(aM)
150	Allyl alcohol	57	3.349	3.349	(0.696)	1310	10.0000	14.40
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	1710	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	343	0.50000	0.35(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1303	0.50000	0.60(a)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	680	0.50000	0.44(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\u240523,b\v052203,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

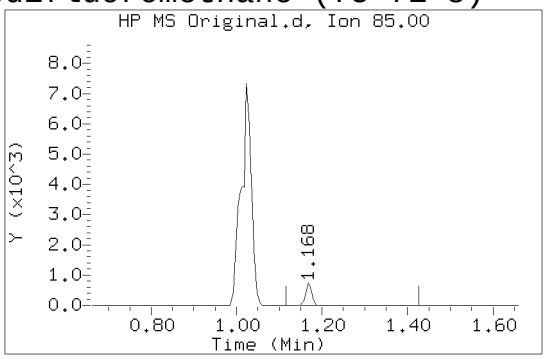
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

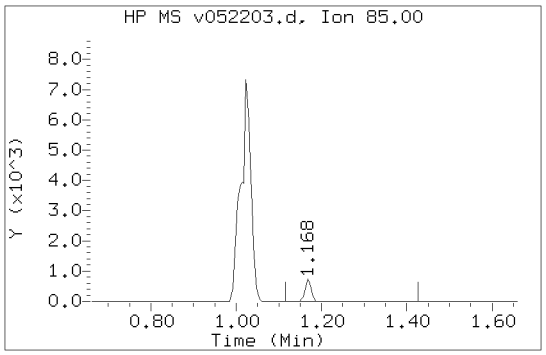
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HEIGHT
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23-May-2024
09:51
firat
tastan



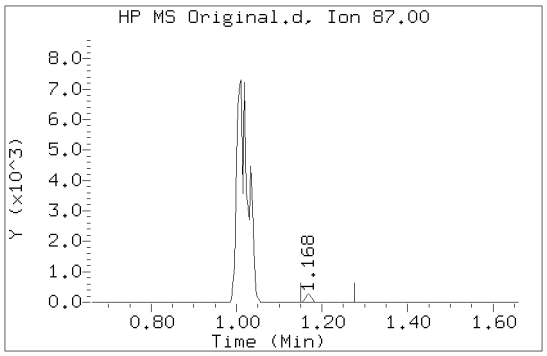
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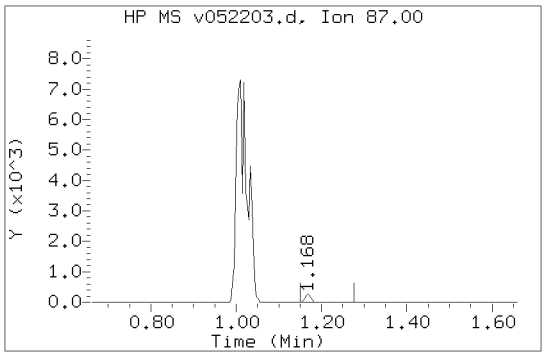
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AFTER

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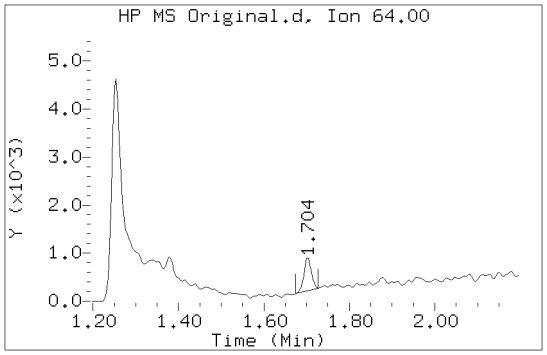


Chloroethane (75-00-3)

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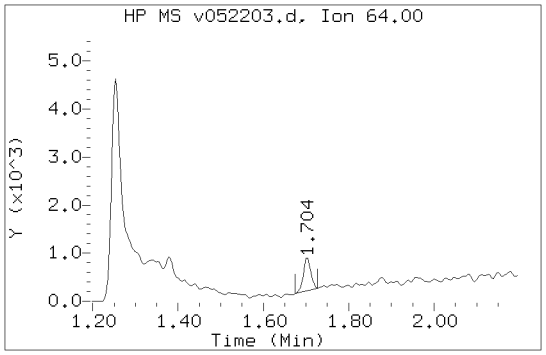
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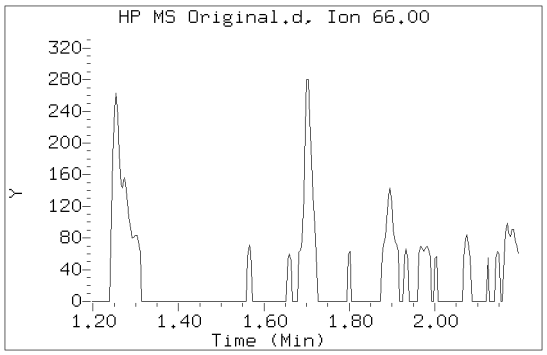
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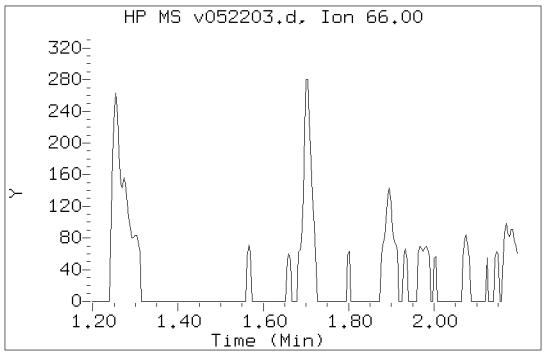
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AFTER

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23-May-2024
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firat
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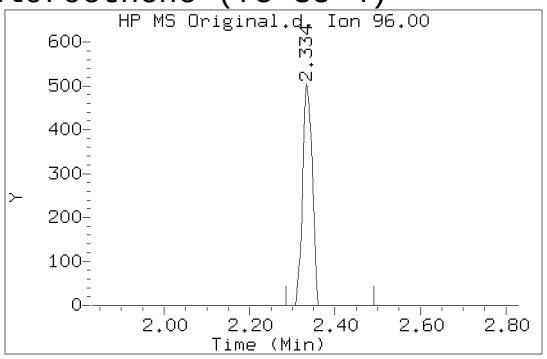
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InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

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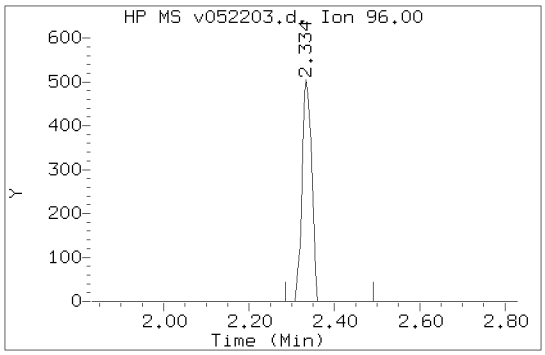
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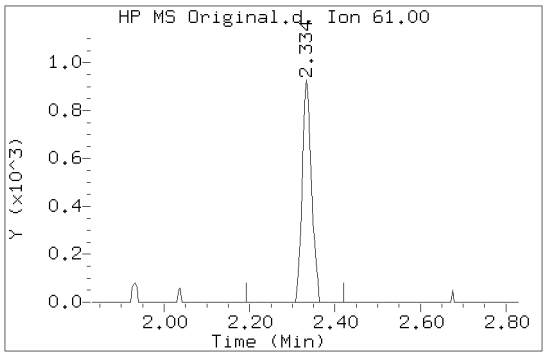
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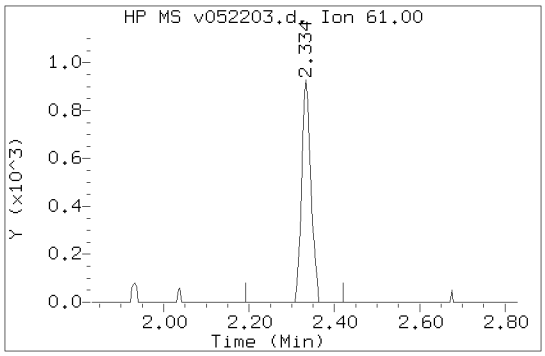
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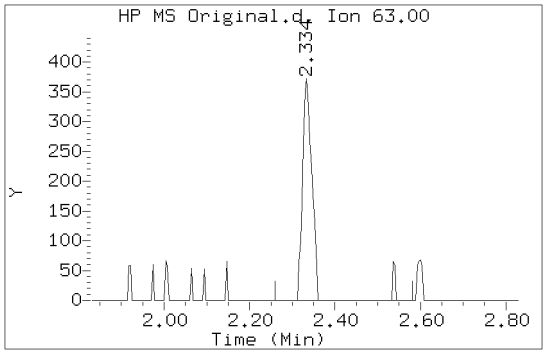
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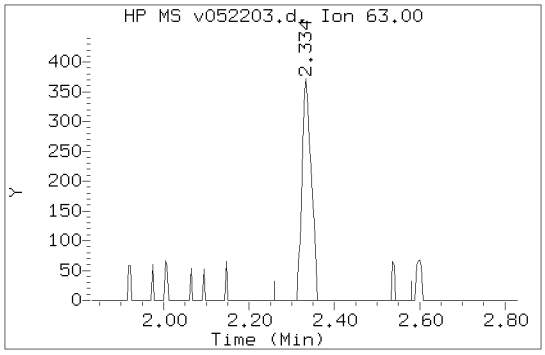
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AFTER

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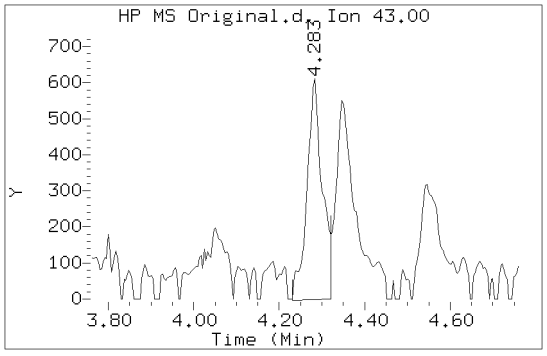


2-Butanone (78-93-3)

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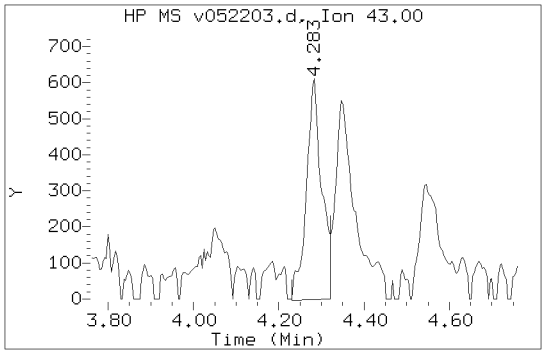
BEFORE

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AFTER

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HEIGHT
612
23-May-2024
09:51
firat
tastan



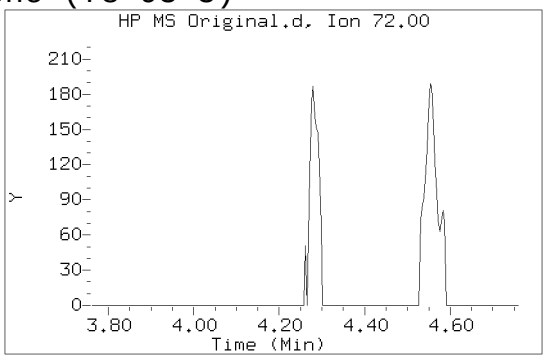
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

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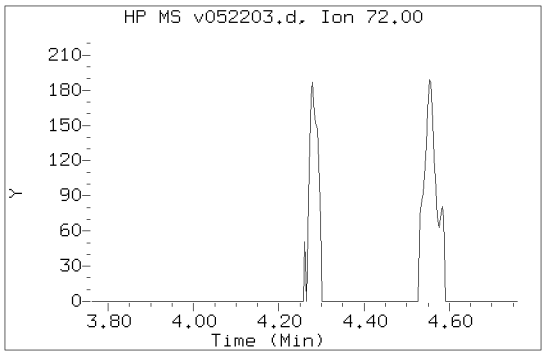
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AFTER

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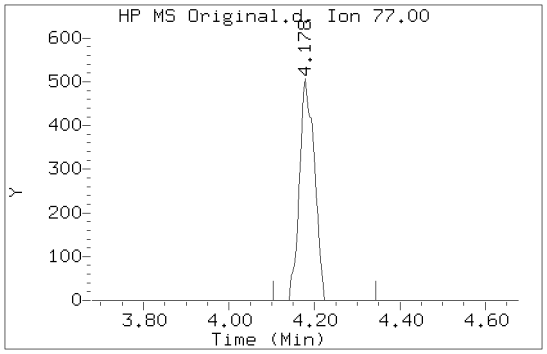


2,2-Dichloropropane (594-20-7)

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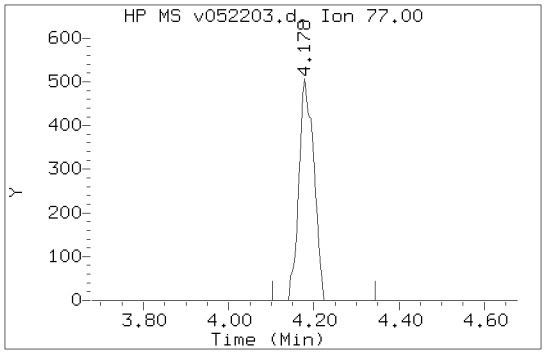
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09:51
firat
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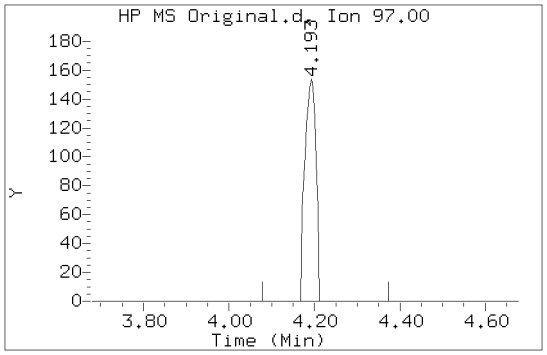
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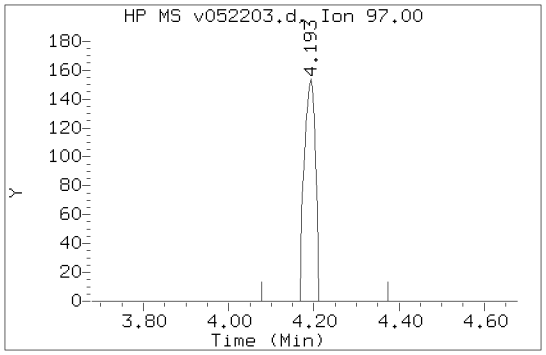
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AFTER

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23-May-2024
09:51
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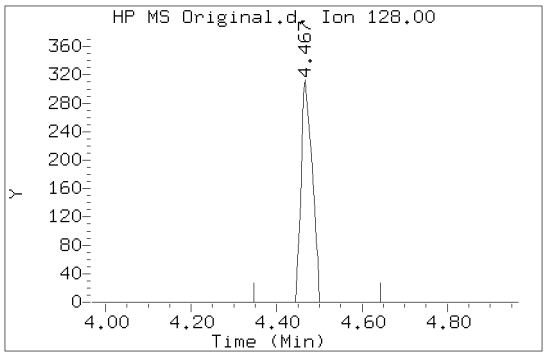


Bromochloromethane (74-97-5)

Reason Code:

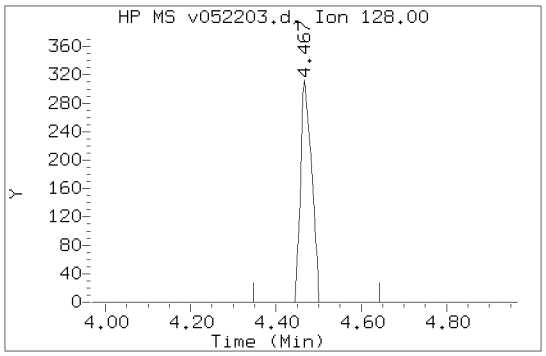
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23-May-2024
09:51
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tastan



AFTER

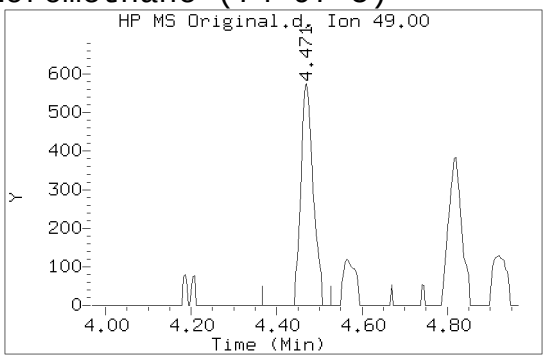
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Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

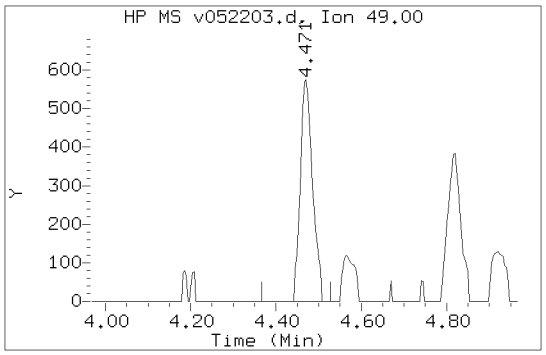
Bromochloromethane (74-97-5)

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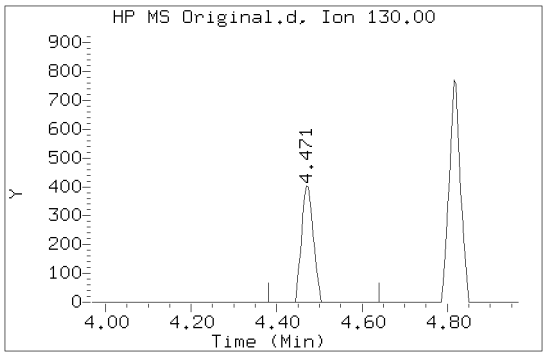


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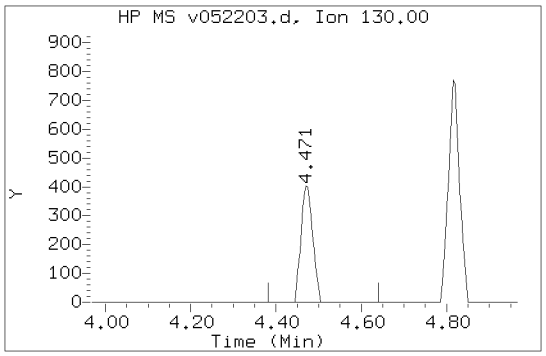
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BEFORE
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23-May-2024
09:51
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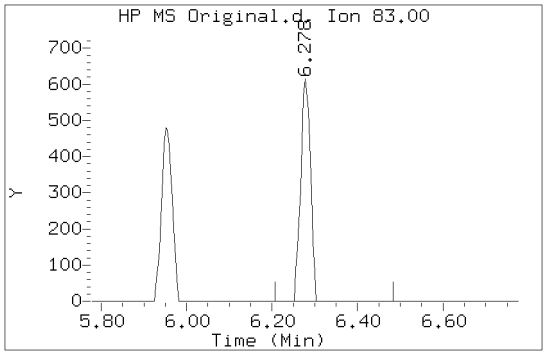
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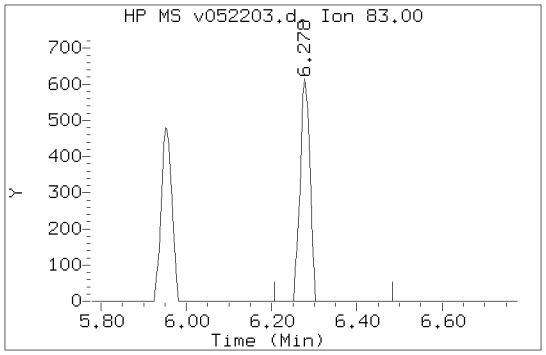
Bromodichloromethane (75-27-4)

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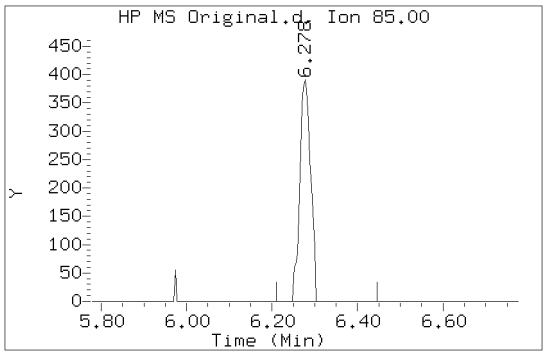
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HEIGHT
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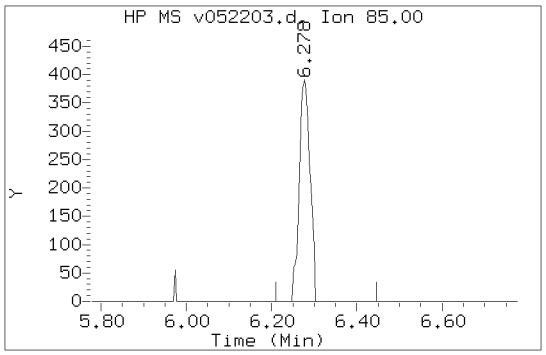
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BEFORE
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705
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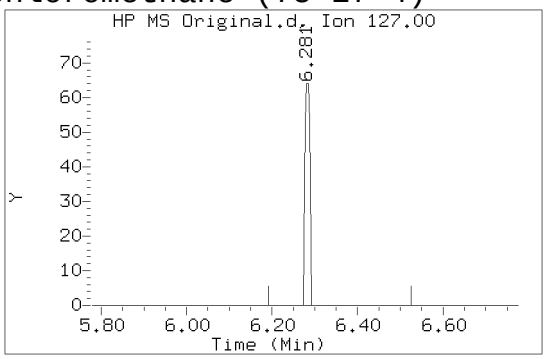


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InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

BEFORE

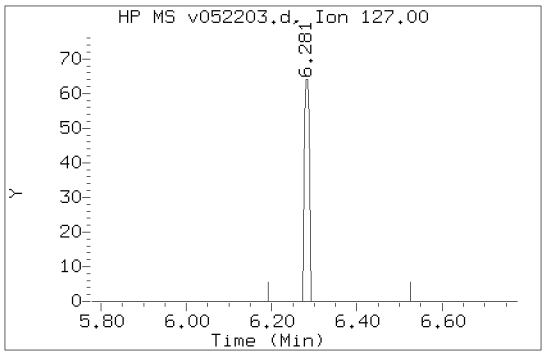
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Reason Code:

AFTER

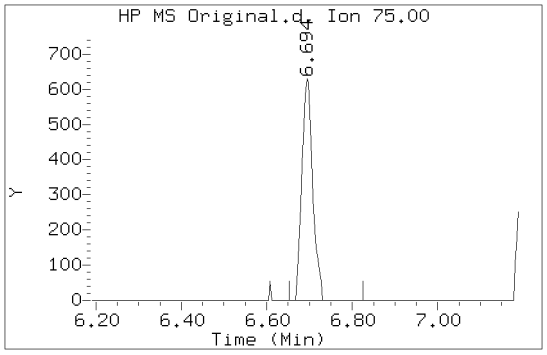
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23-May-2024
09:51
firat
tastan



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

BEFORE

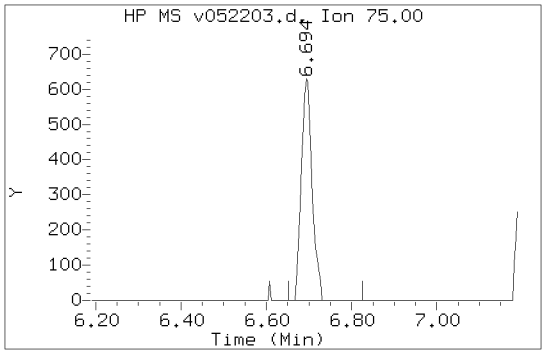
MASS
75
AREA
1137
HEIGHT
630
23-May-2024
09:51
firat
tastan



Reason Code:

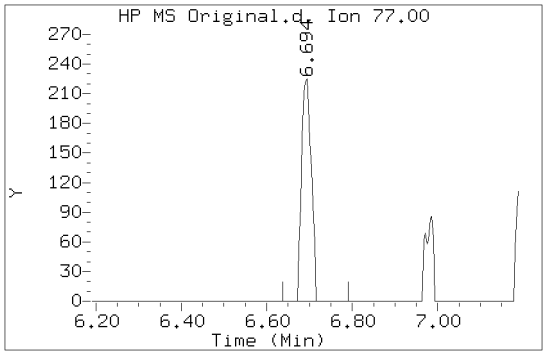
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MASS
75
AREA
1137
HEIGHT
630
23-May-2024
09:51
firat
tastan



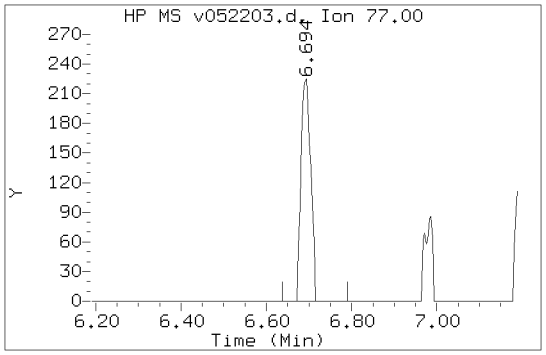
BEFORE

MASS
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AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



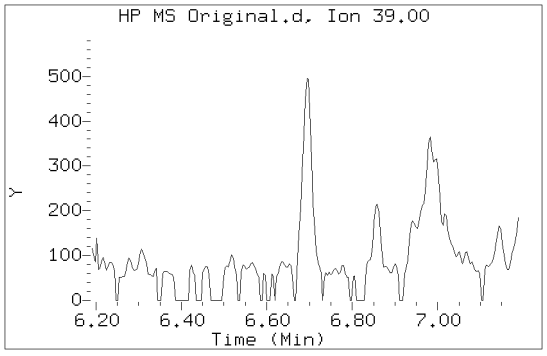
AFTER

MASS
77
AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



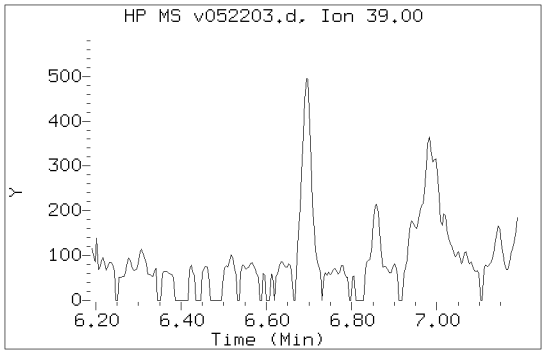
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



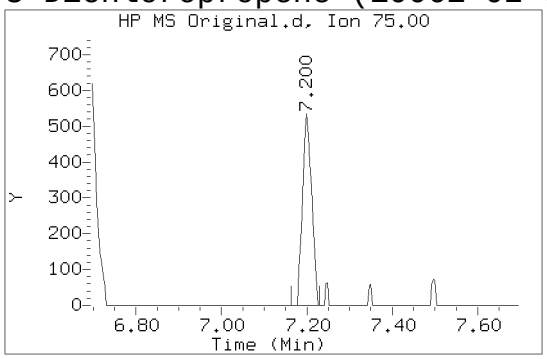
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

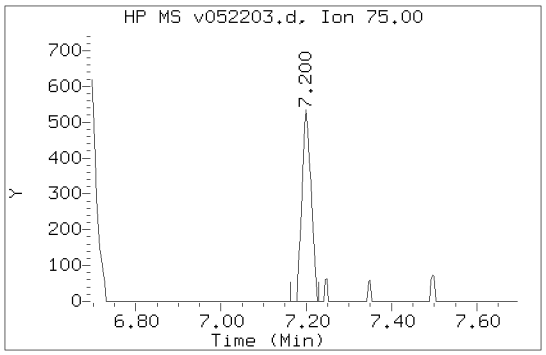
BEFORE

MASS
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AREA
806
HEIGHT
535
23-May-2024
09:51
firat
tastan



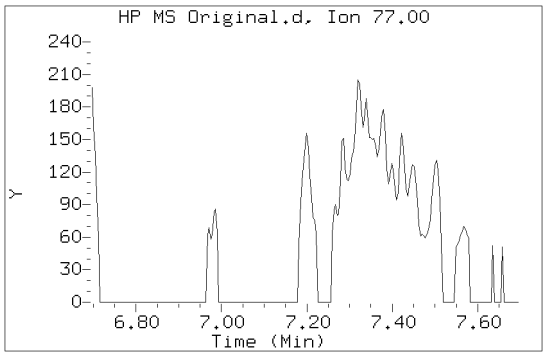
AFTER

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AREA
806
HEIGHT
535
23-May-2024
09:51
firat
tastan



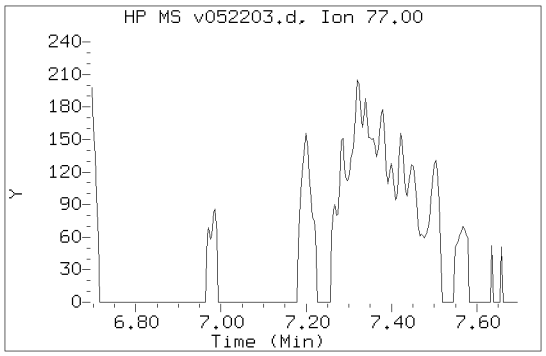
BEFORE

MASS
77
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0
HEIGHT
0
23-May-2024
09:51
firat
tastan



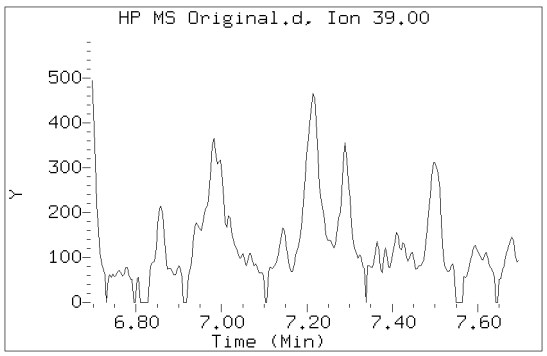
AFTER

MASS
77
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



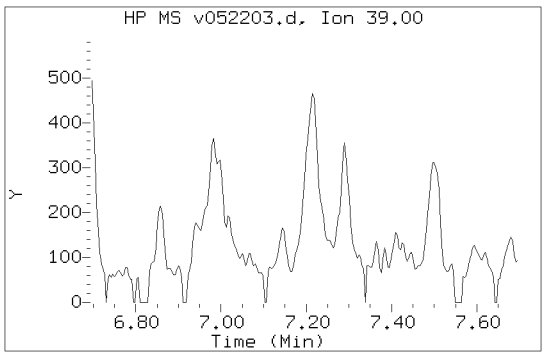
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

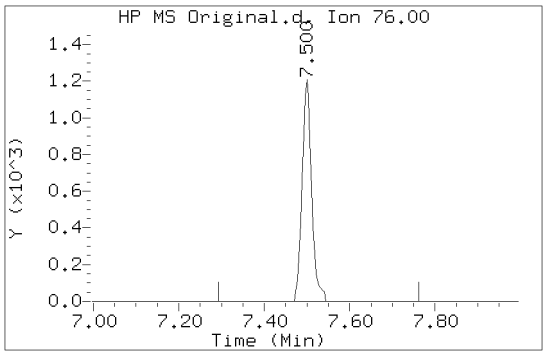


1,3-Dichloropropane (142-28-9)

Reason Code:

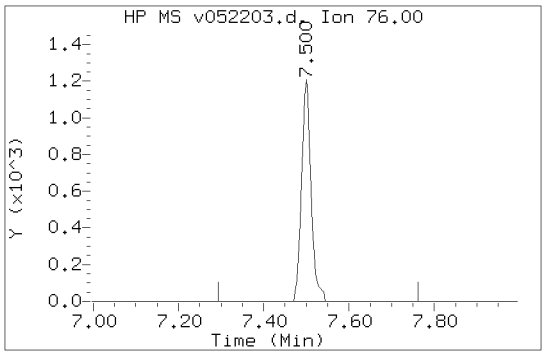
BEFORE

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan



AFTER

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan



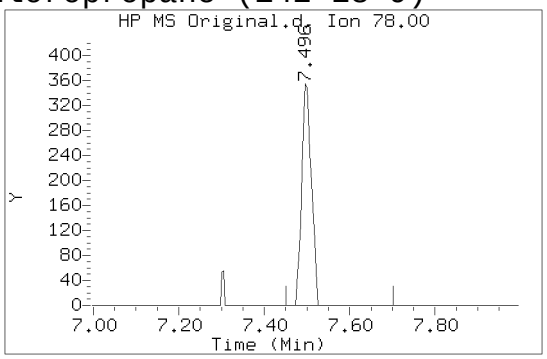
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

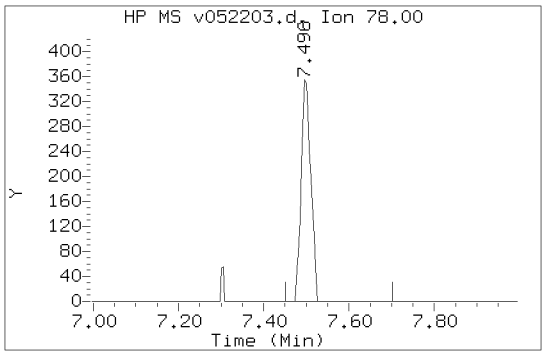
BEFORE

MASS
78
AREA
572
HEIGHT
355
23-May-2024
09:51
firat
tastan



AFTER

MASS
78
AREA
572
HEIGHT
355
23-May-2024
09:51
firat
tastan

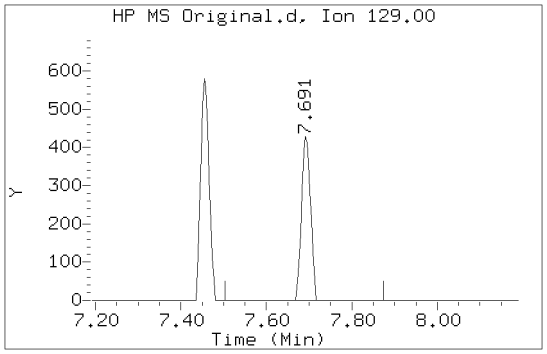


Dibromochloromethane (124-48-1)

Reason Code:

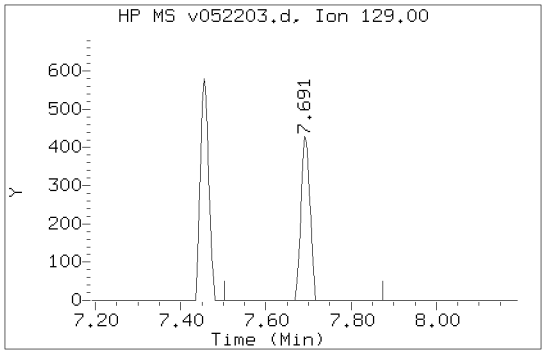
BEFORE

MASS
129
AREA
646
HEIGHT
429
23-May-2024
09:51
firat
tastan



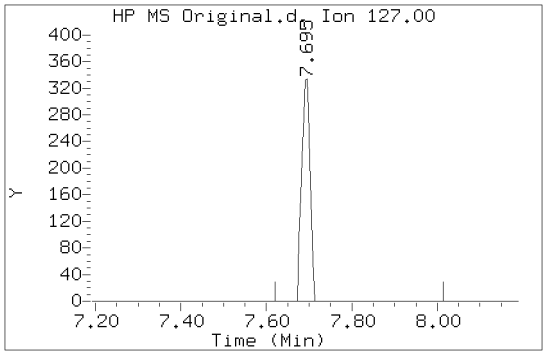
AFTER

MASS
129
AREA
646
HEIGHT
429
23-May-2024
09:51
firat
tastan



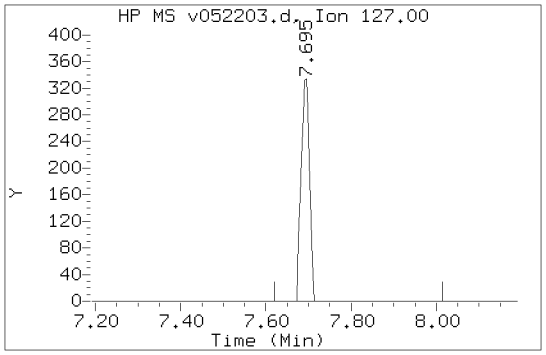
BEFORE

MASS
127
AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan



AFTER

MASS
127
AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan

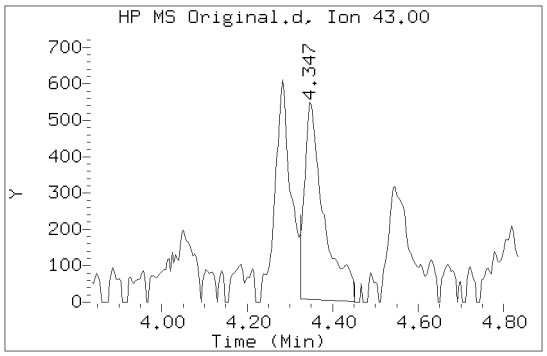


Vinyl Acetate (108-05-4)

Reason Code:

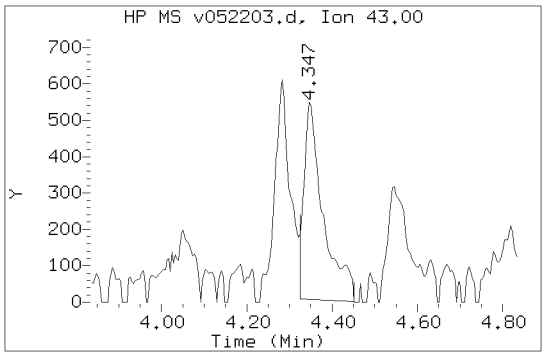
BEFORE

MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



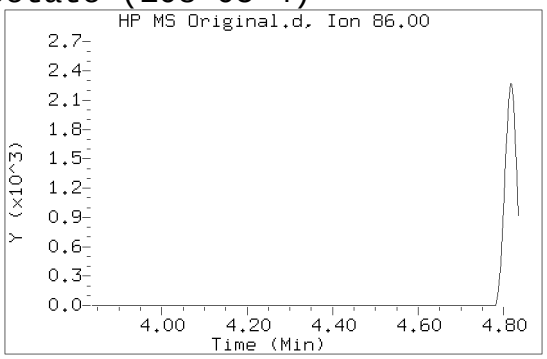
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

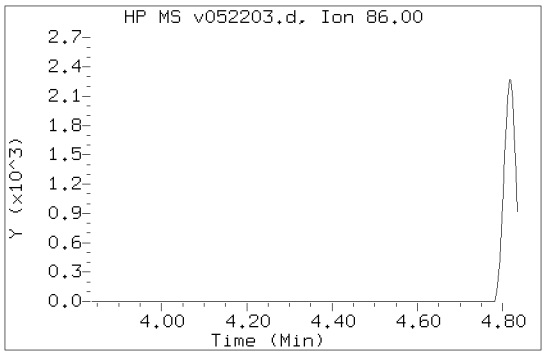
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

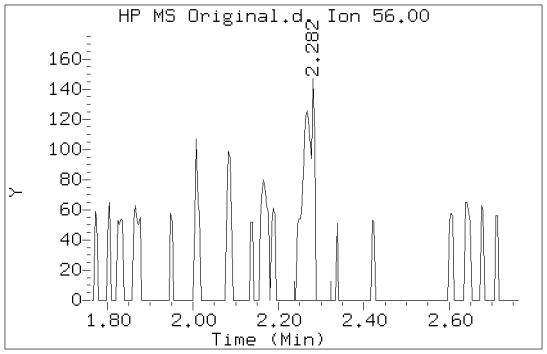


Acrolein (107-02-8)

Reason Code:

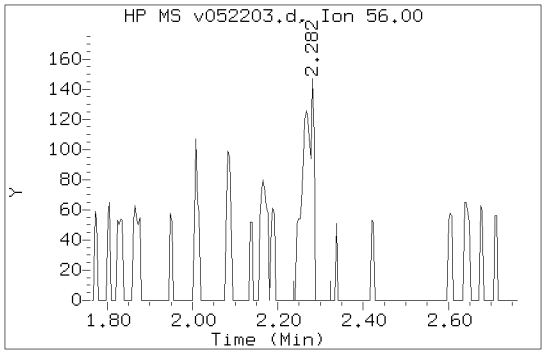
BEFORE

MASS
56
AREA
256
HEIGHT
147
23-May-2024
09:51
firat
tastan



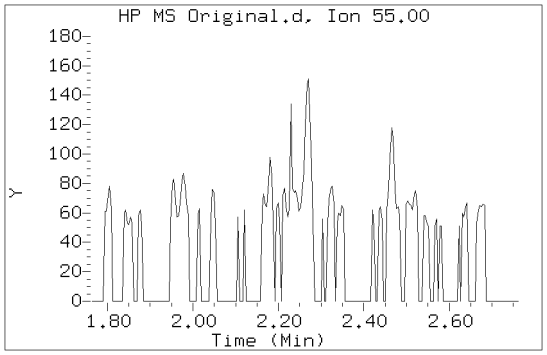
AFTER

MASS
56
AREA
256
HEIGHT
147
23-May-2024
09:51
firat
tastan



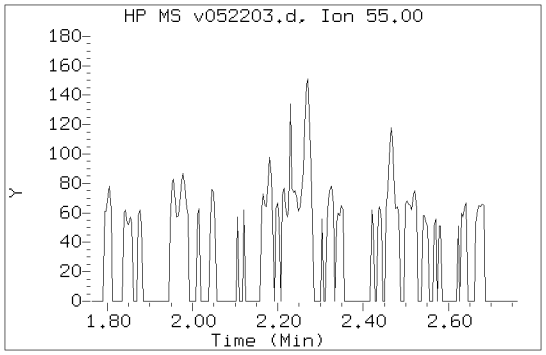
BEFORE

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

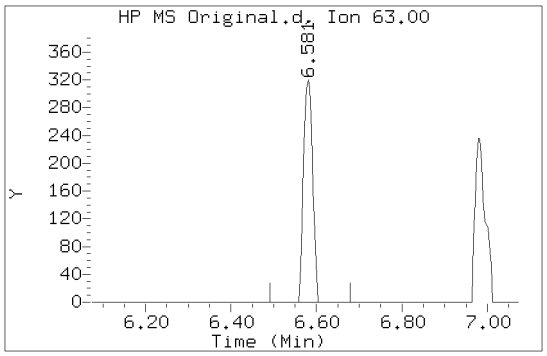


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

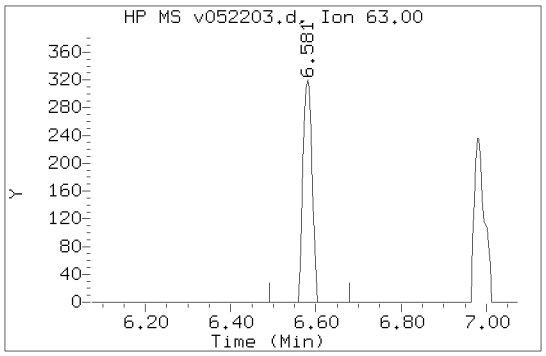
BEFORE

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



AFTER

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



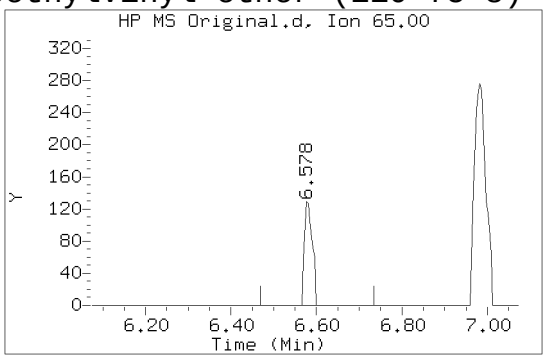
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

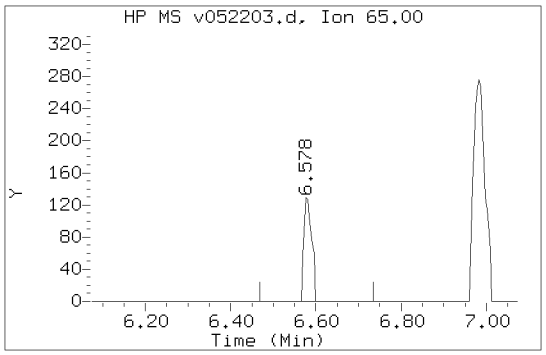
BEFORE

MASS
65
AREA
165
HEIGHT
129
23-May-2024
09:51
firat
tastan



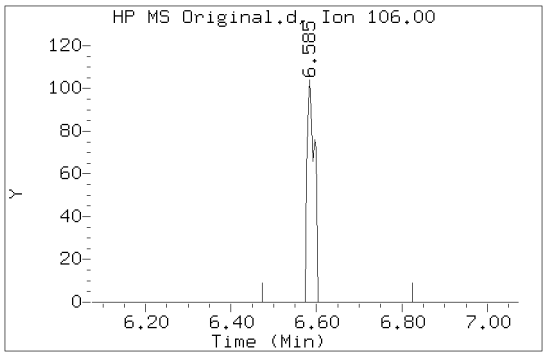
AFTER

MASS
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AREA
165
HEIGHT
129
23-May-2024
09:51
firat
tastan



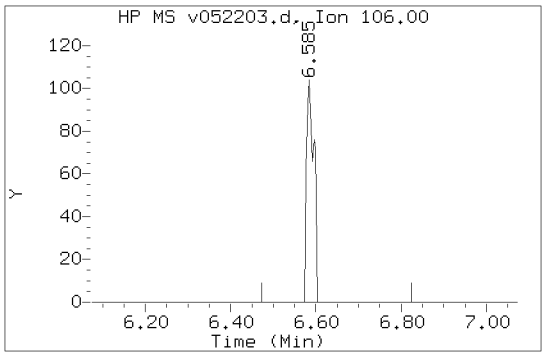
BEFORE

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan



AFTER

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan

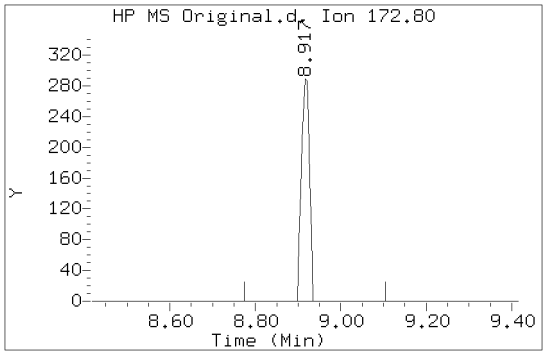


Bromoform (75-25-2)

Reason Code:

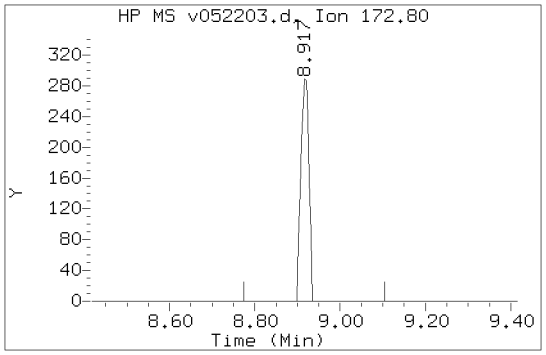
BEFORE

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



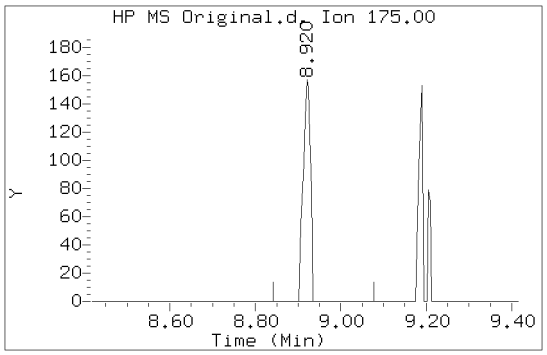
AFTER

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



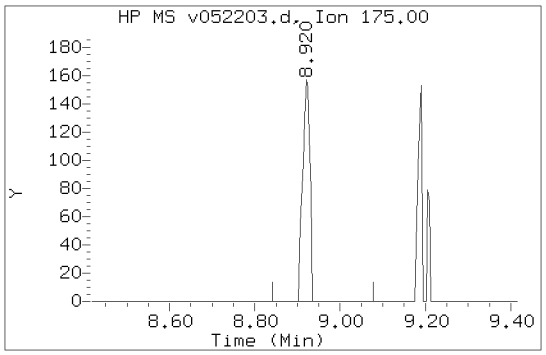
BEFORE

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



AFTER

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



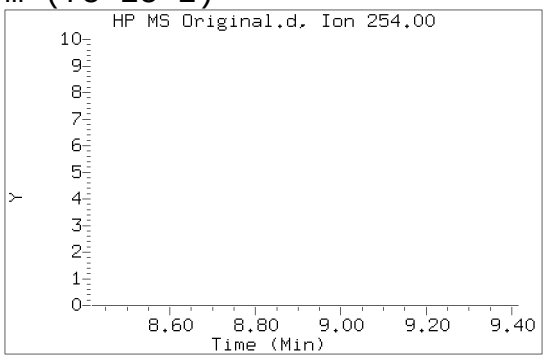
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

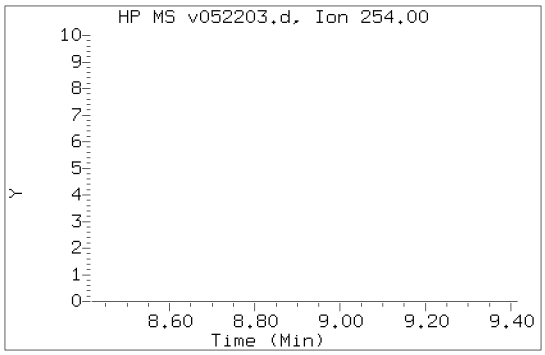
BEFORE

MASS
254
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
254
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

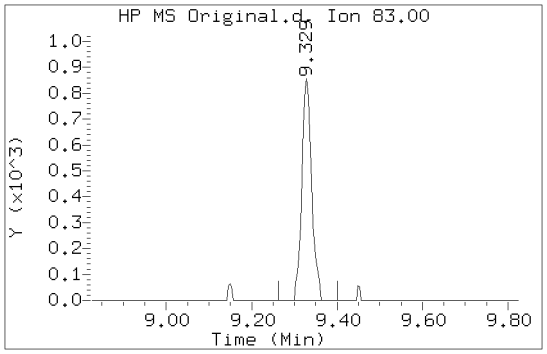


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

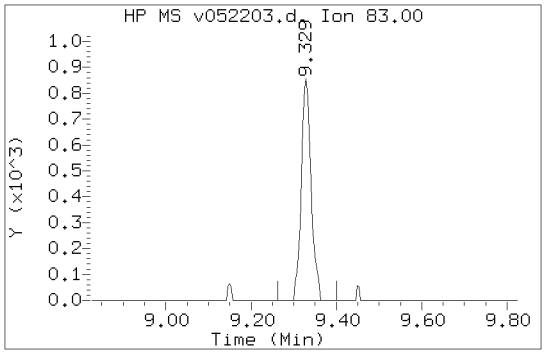
BEFORE

MASS
83
AREA
1392
HEIGHT
856
23-May-2024
09:51
firat
tastan



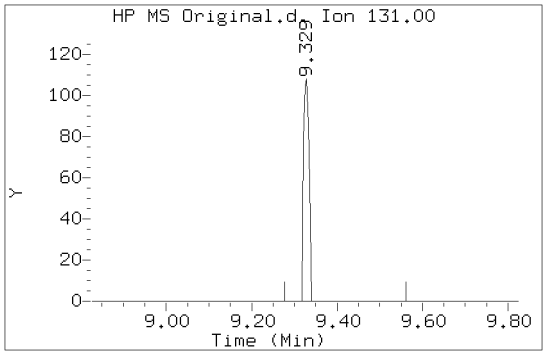
AFTER

MASS
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AREA
1392
HEIGHT
856
23-May-2024
09:51
firat
tastan



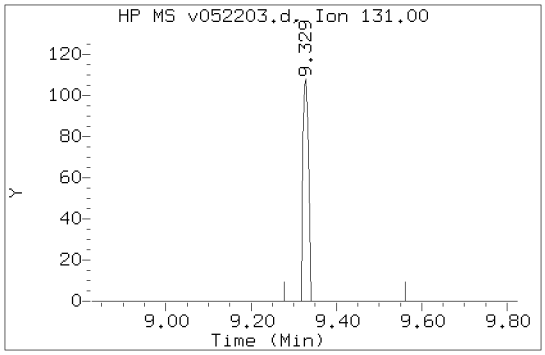
BEFORE

MASS
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AREA
97
HEIGHT
108
23-May-2024
09:51
firat
tastan



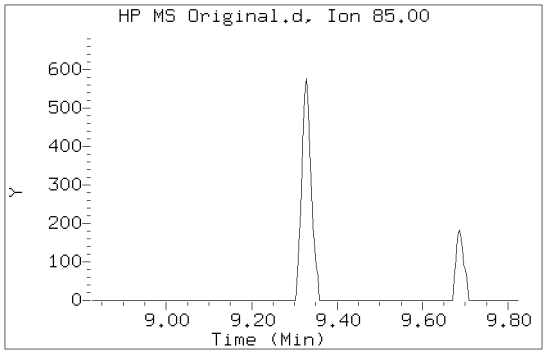
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23-May-2024
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firat
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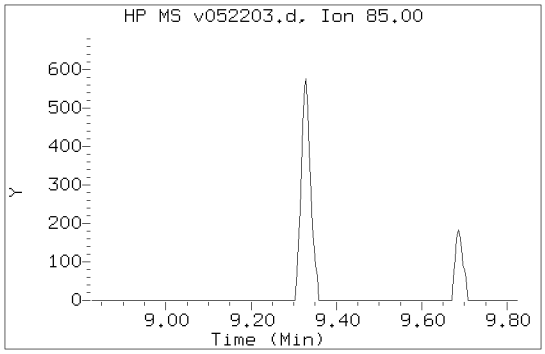
BEFORE

MASS
85
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



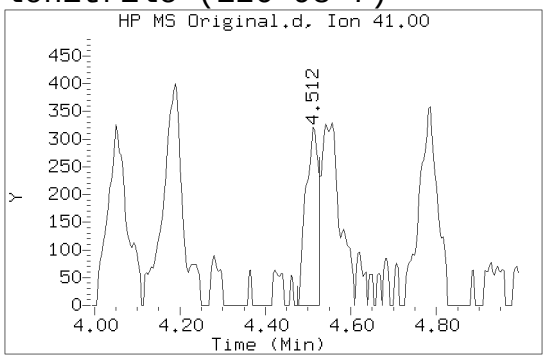
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

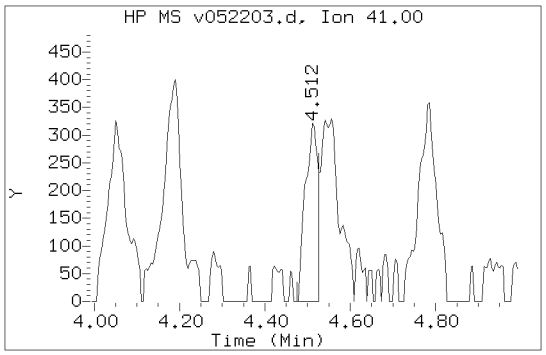
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666
HEIGHT
322
23-May-2024
09:51
firat
tastan



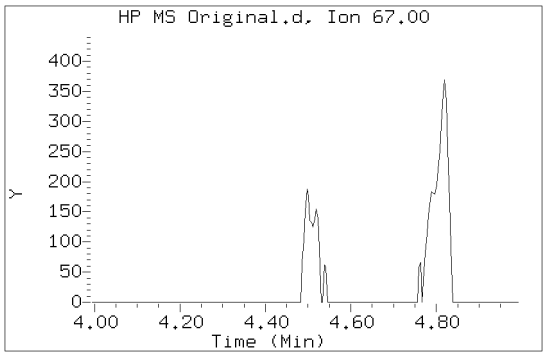
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HEIGHT
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23-May-2024
09:51
firat
tastan



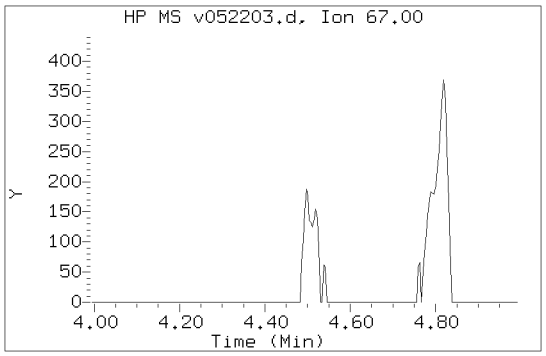
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HEIGHT
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23-May-2024
09:51
firat
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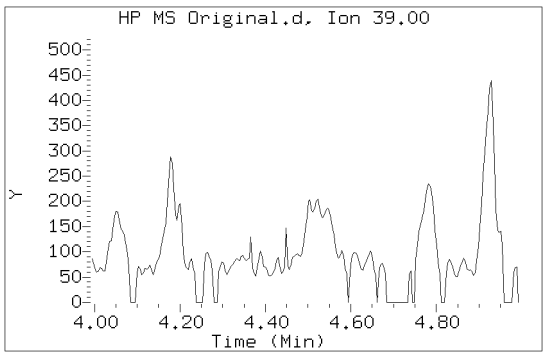
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firat
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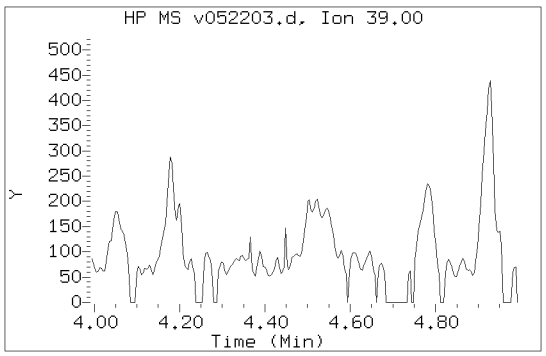
BEFORE

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HEIGHT
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23-May-2024
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AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

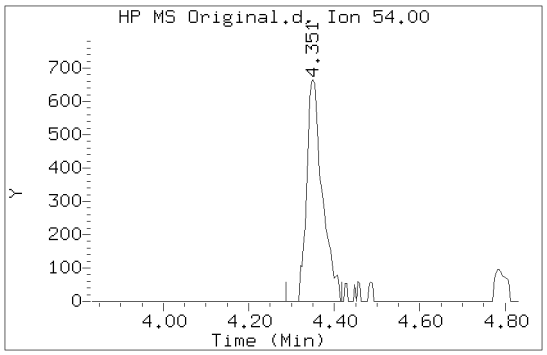


Propionitrile (107-12-0)

Reason Code:

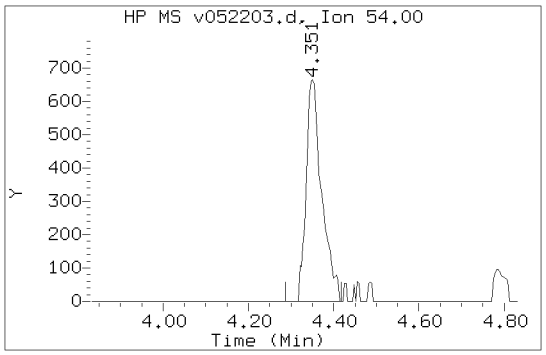
BEFORE

MASS
54
AREA
1689
HEIGHT
665
23-May-2024
09:51
firat
tastan



AFTER

MASS
54
AREA
1689
HEIGHT
665
23-May-2024
09:51
firat
tastan



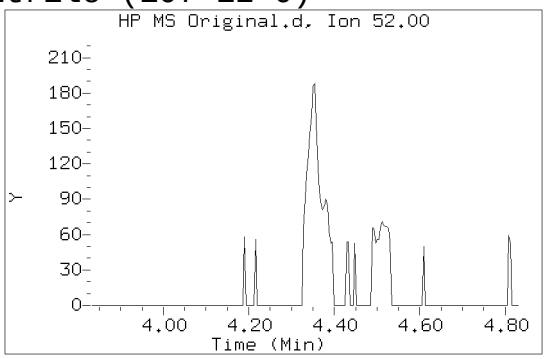
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

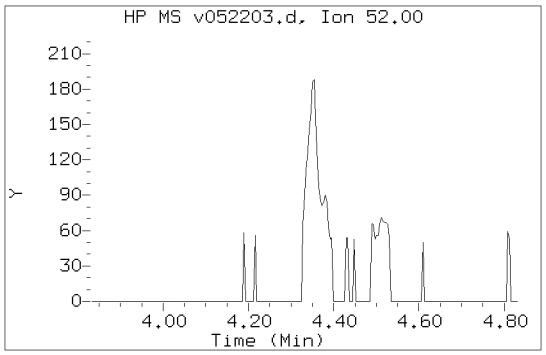
BEFORE

MASS
52
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



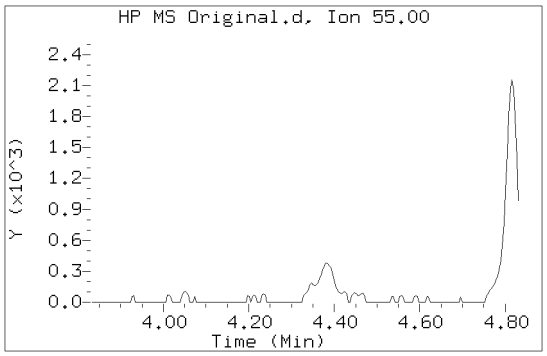
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23-May-2024
09:51
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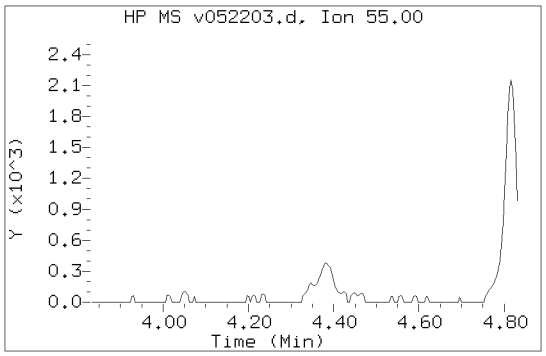
BEFORE

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

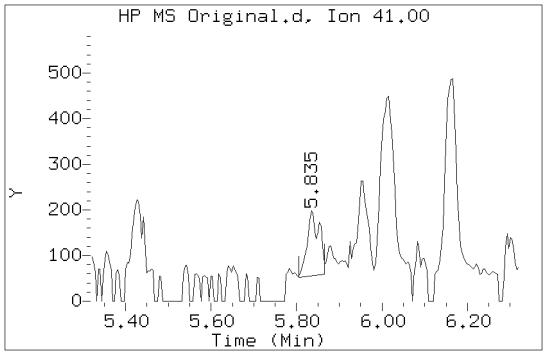


Methyl Methacrylate (80-62-6)

Reason Code:

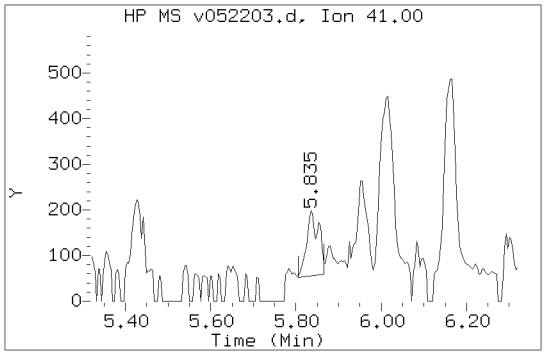
BEFORE

MASS
41
AREA
284
HEIGHT
143
23-May-2024
09:51
firat
tastan



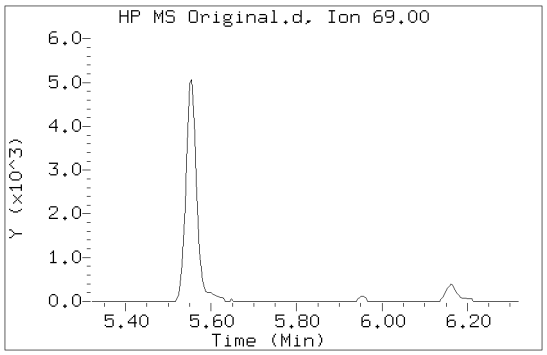
AFTER

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AREA
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HEIGHT
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23-May-2024
09:51
firat
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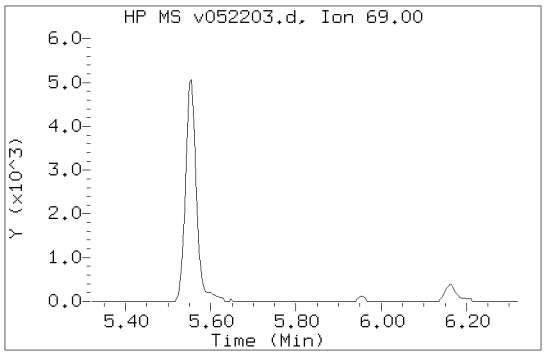
BEFORE

MASS
69
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

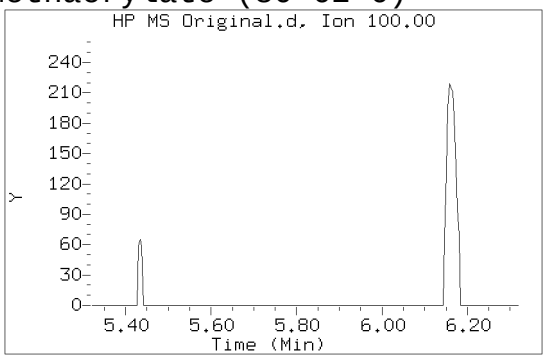


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

BEFORE

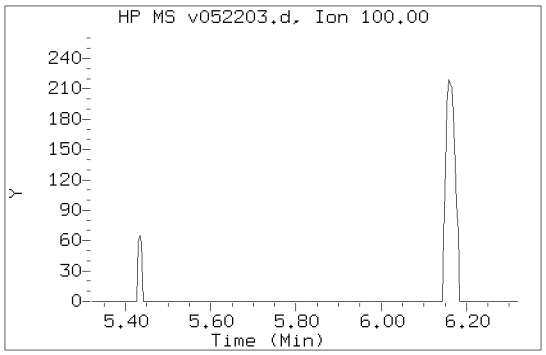
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

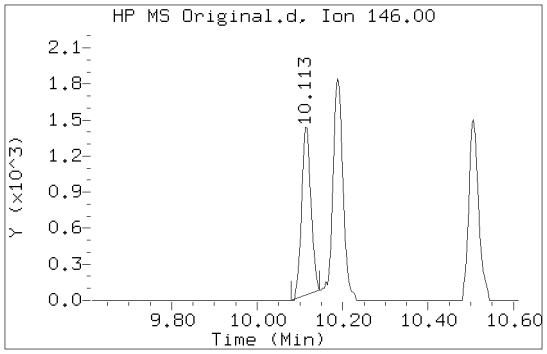
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HEIGHT
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09:51
firat
tastan



1,3-Dichlorobenzene (541-73-1)

BEFORE

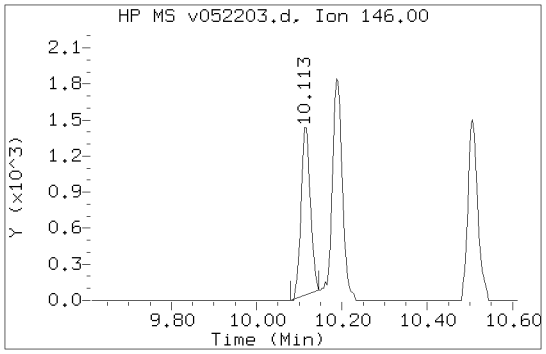
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2161
HEIGHT
1398
23-May-2024
09:51
firat
tastan



Reason Code:

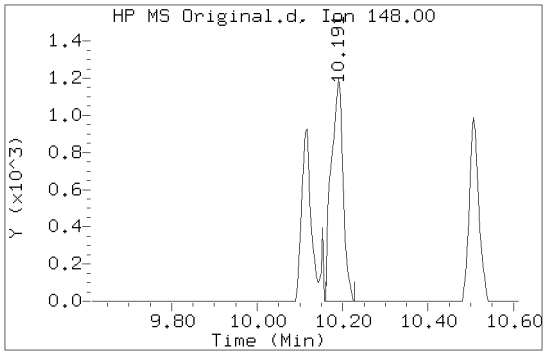
AFTER

MASS
146
AREA
2161
HEIGHT
1398
23-May-2024
09:51
firat
tastan



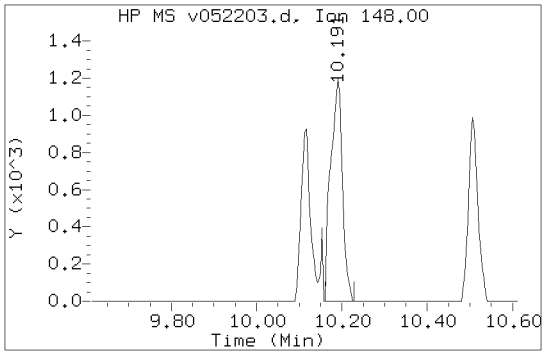
BEFORE

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2283
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1196
23-May-2024
09:51
firat
tastan



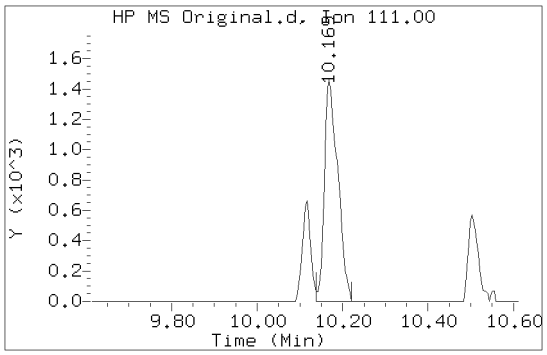
AFTER

MASS
148
AREA
2283
HEIGHT
1196
23-May-2024
09:51
firat
tastan



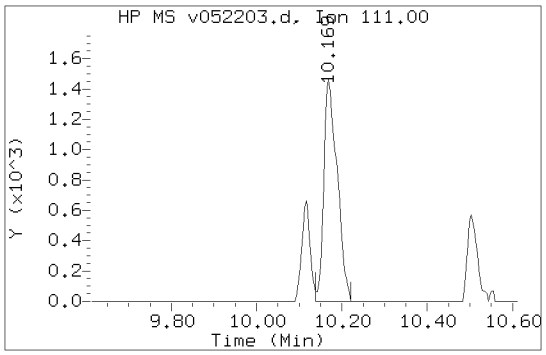
BEFORE

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HEIGHT
1461
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
3179
HEIGHT
1461
23-May-2024
09:51
firat
tastan



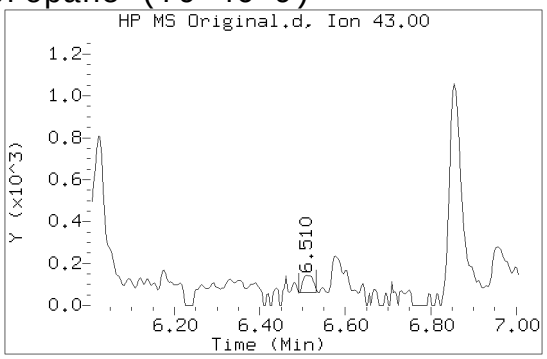
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

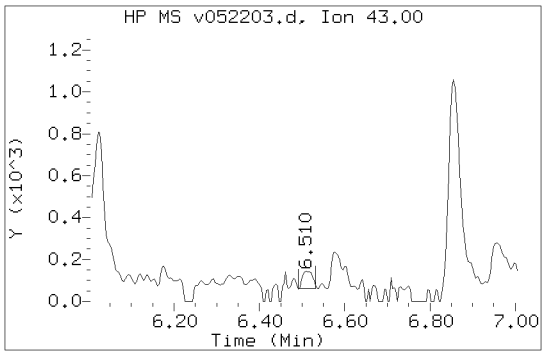
BEFORE

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AREA
138
HEIGHT
83
23-May-2024
09:51
firat
tastan



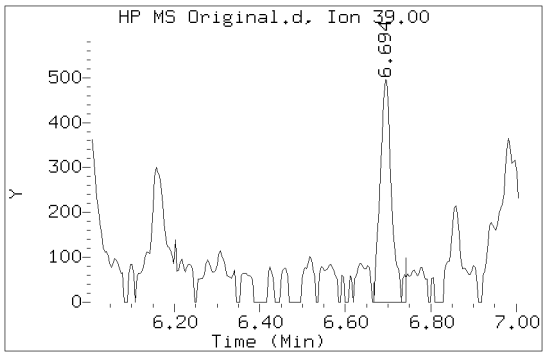
AFTER

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firat
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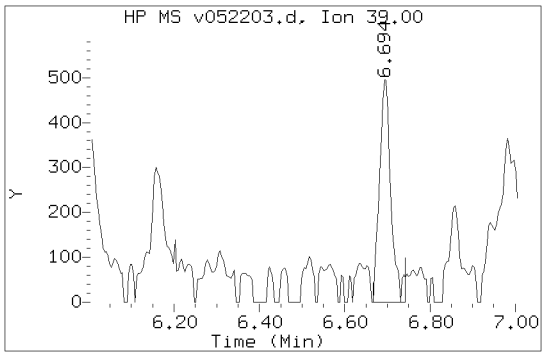
BEFORE

MASS
39
AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan

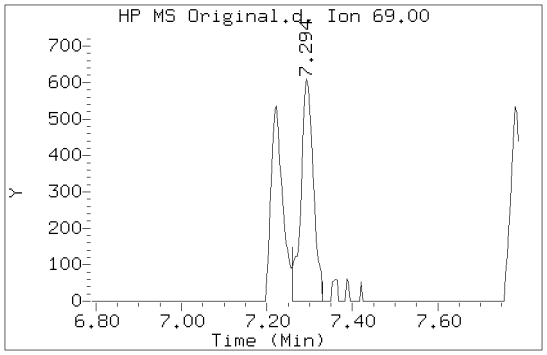


Ethyl Methacrylate (97-63-2)

Reason Code:

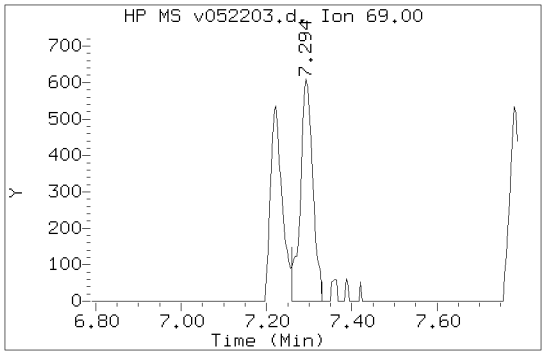
BEFORE

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69
AREA
1247
HEIGHT
610
23-May-2024
09:51
firat
tastan



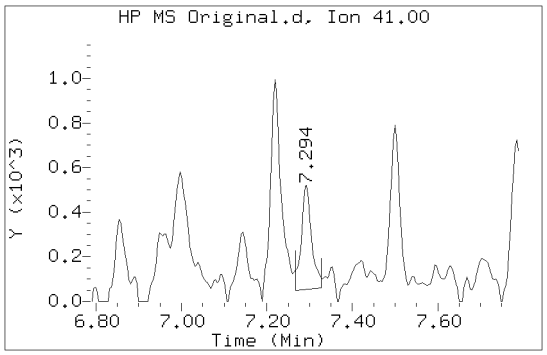
AFTER

MASS
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AREA
1247
HEIGHT
610
23-May-2024
09:51
firat
tastan



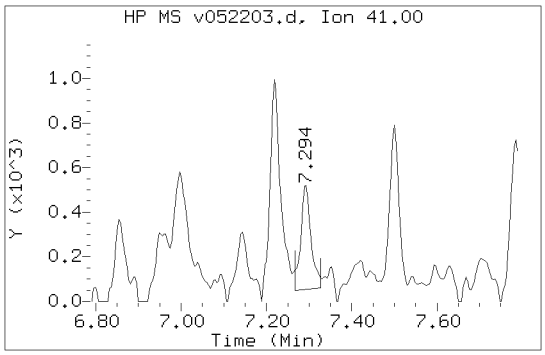
BEFORE

MASS
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AREA
802
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467
23-May-2024
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AFTER

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AREA
802
HEIGHT
467
23-May-2024
09:51
firat
tastan



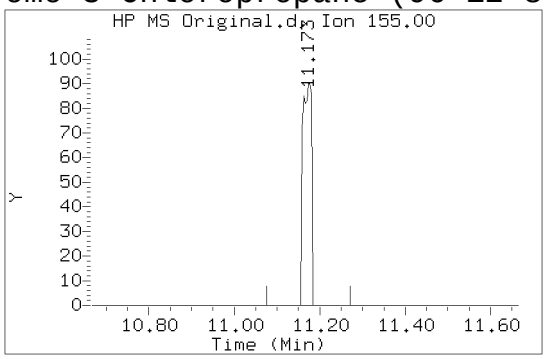
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

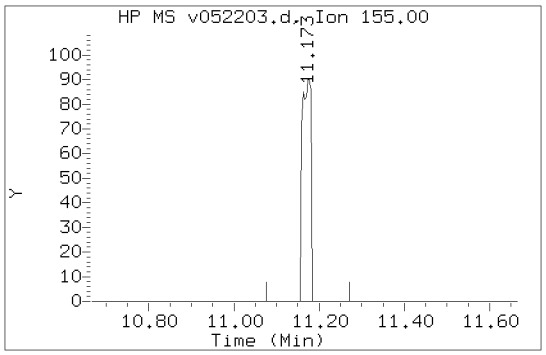
BEFORE

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155
AREA
132
HEIGHT
90
23-May-2024
09:51
firat
tastan



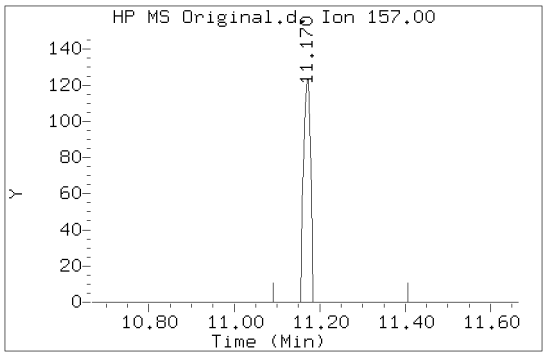
AFTER

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23-May-2024
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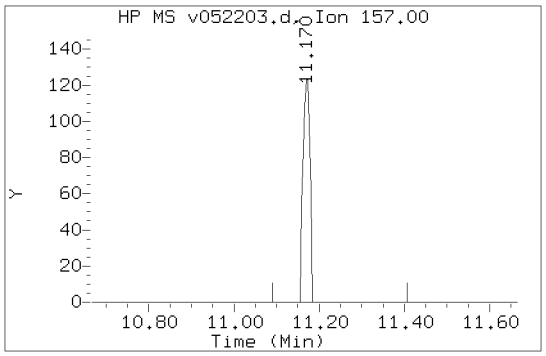
BEFORE

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AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



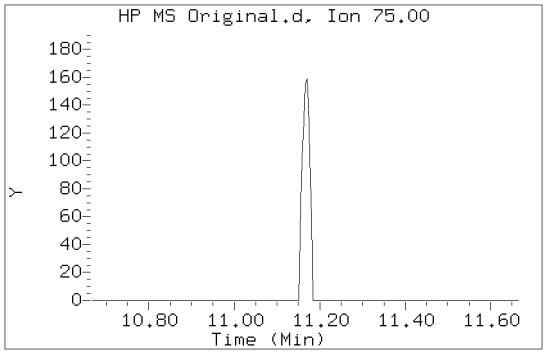
AFTER

MASS
157
AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



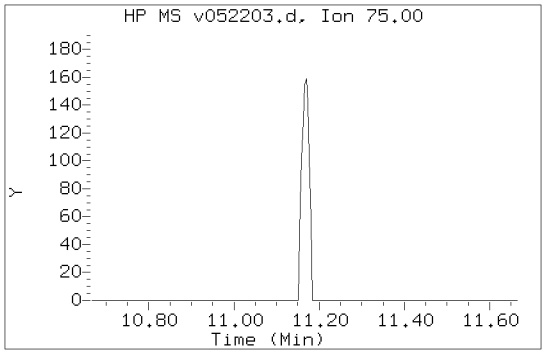
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

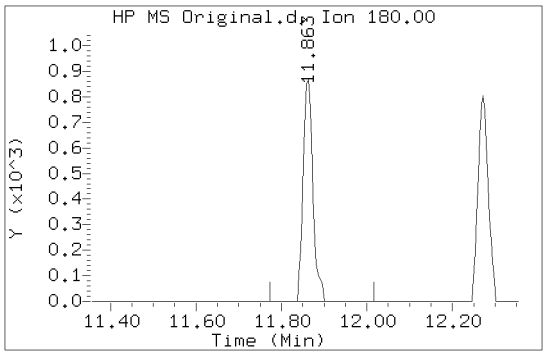


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

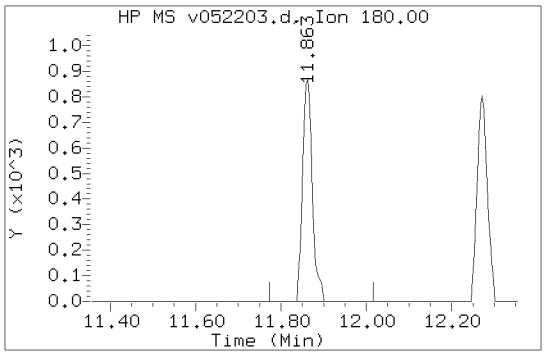
BEFORE

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan



AFTER

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan

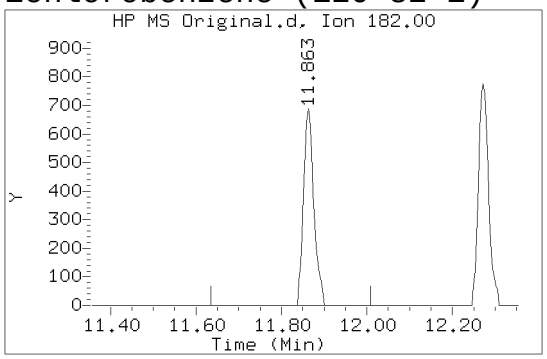


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

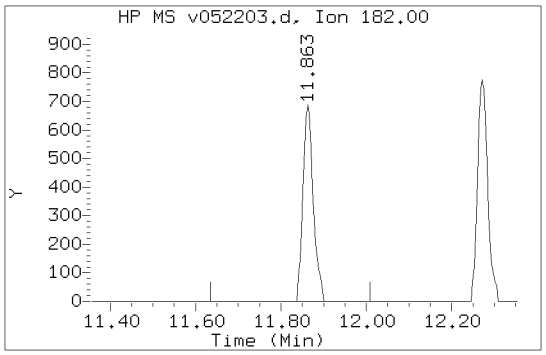
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

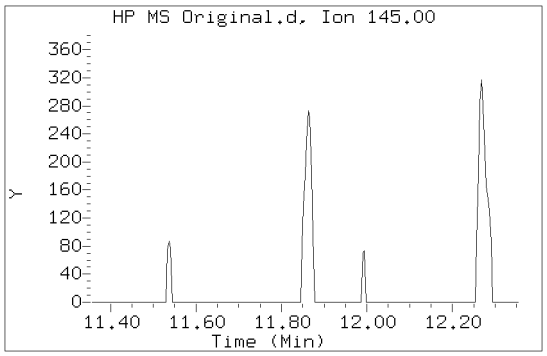
BEFORE
MASS
182
AREA
1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



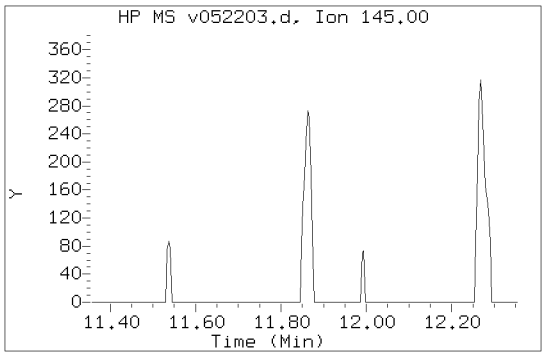
AFTER
MASS
182
AREA
1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



BEFORE
MASS
145
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



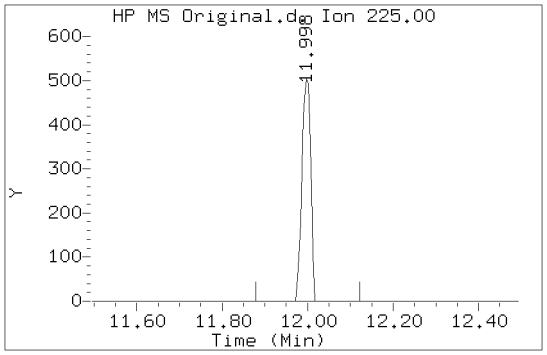
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MASS
145
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



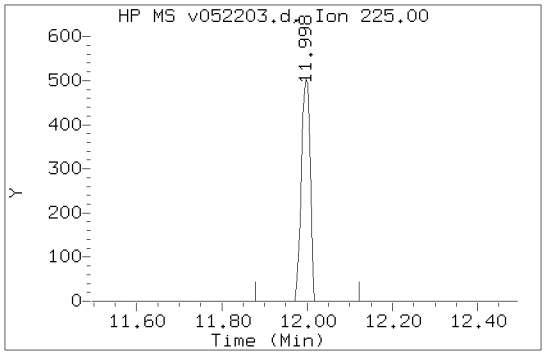
Hexachlorobutadiene (87-68-3)

Reason Code:

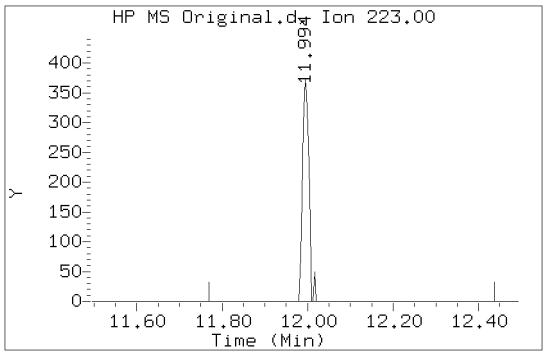
BEFORE
MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



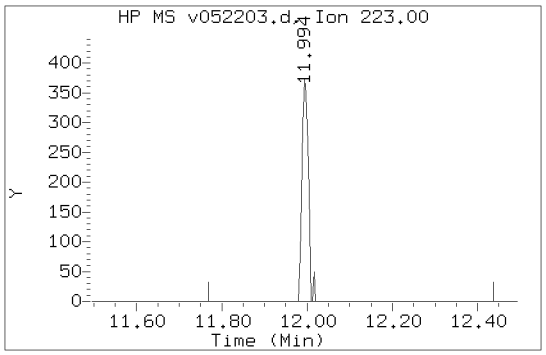
AFTER
MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



BEFORE
MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



AFTER
MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



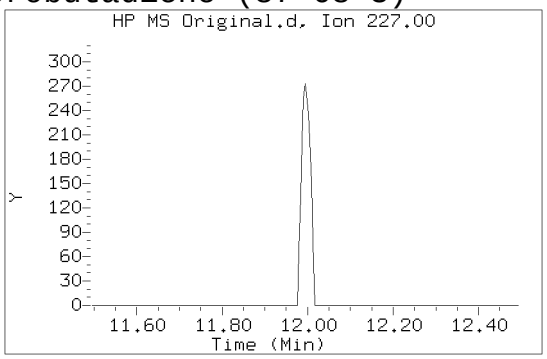
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

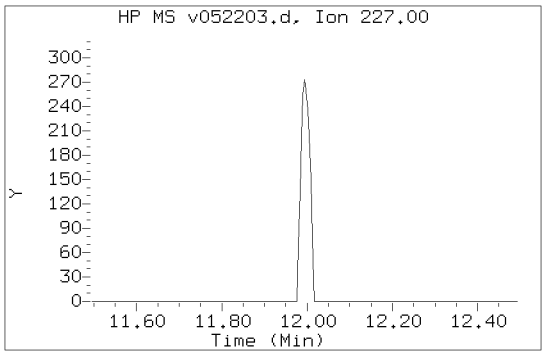
BEFORE

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

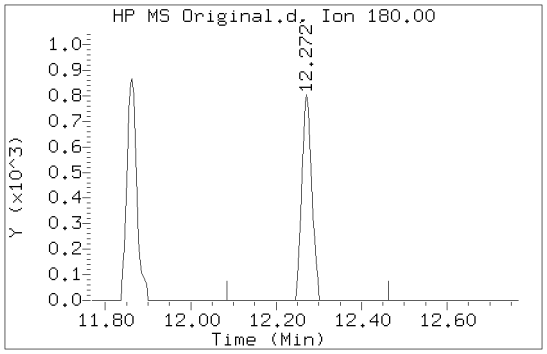


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

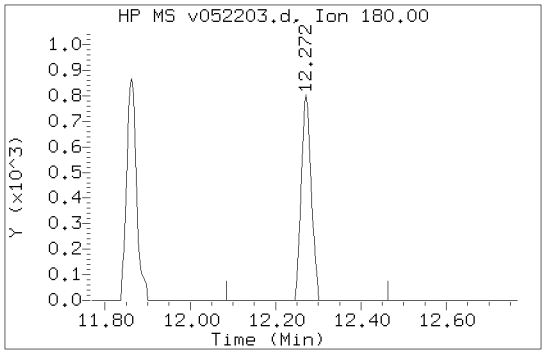
BEFORE

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



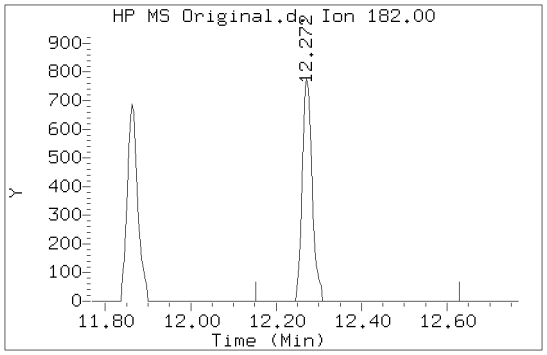
AFTER

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



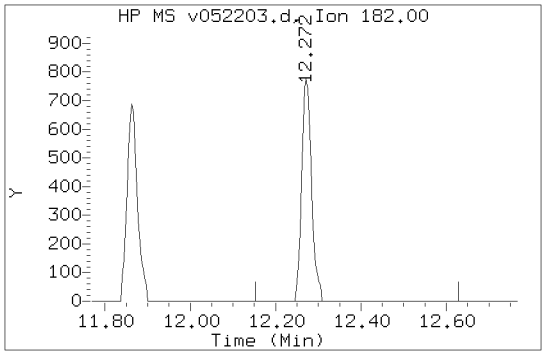
BEFORE

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



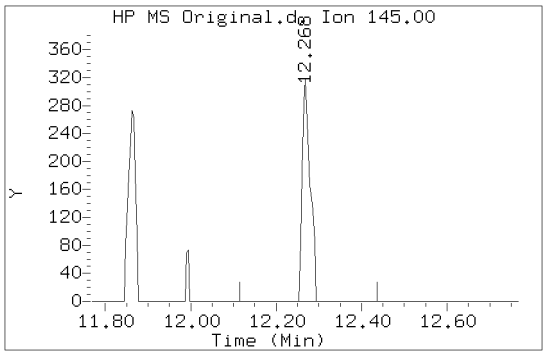
AFTER

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



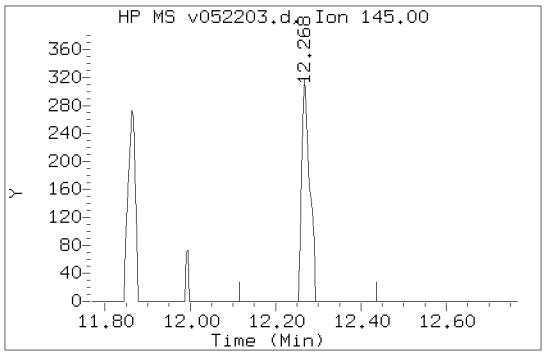
BEFORE

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan



AFTER

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan

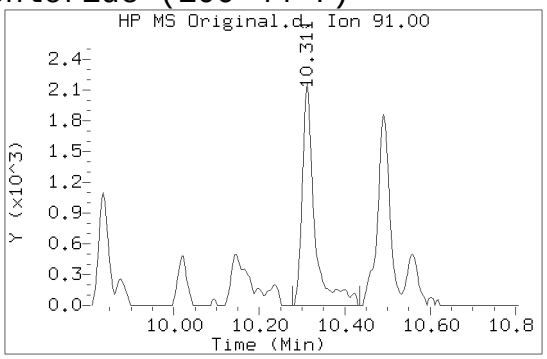


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

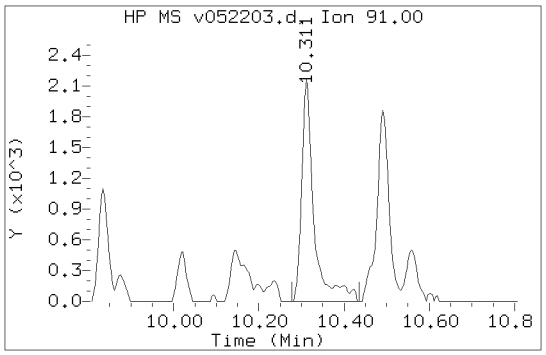
Benzyl Chloride (100-44-7)

Reason Code:

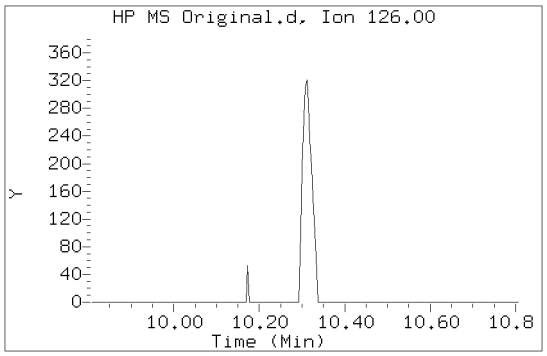
BEFORE
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



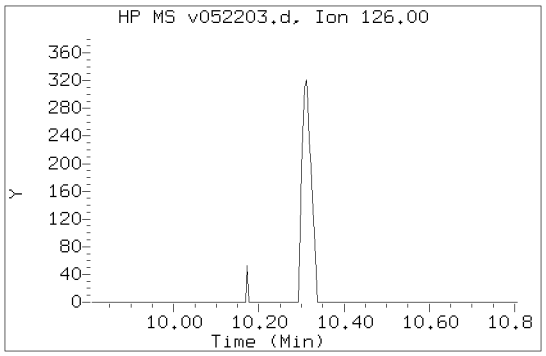
AFTER
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



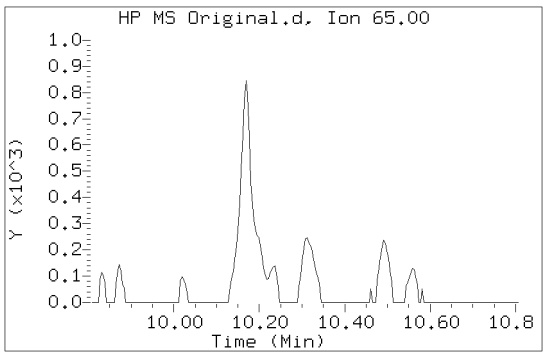
BEFORE
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



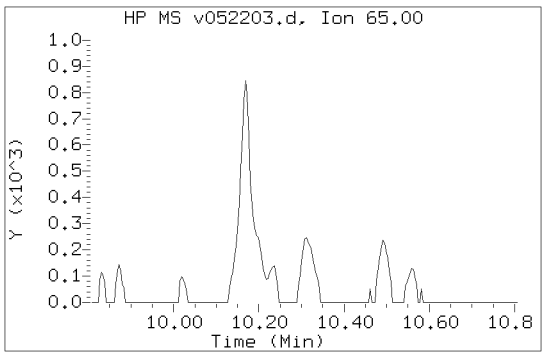
AFTER
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



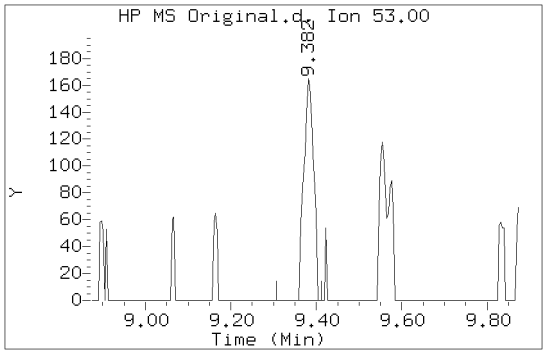
AFTER
MASS
65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



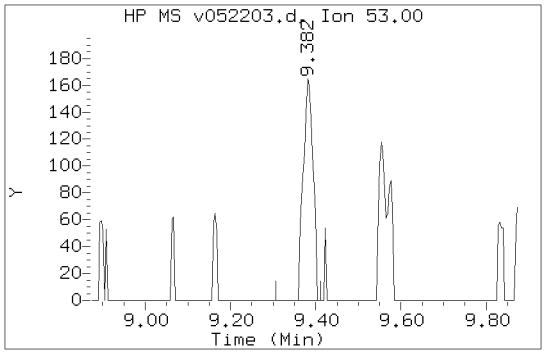
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



AFTER
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



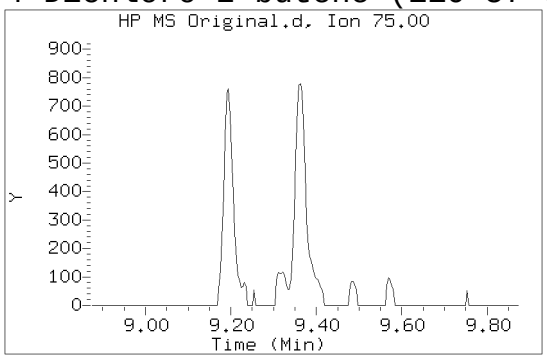
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

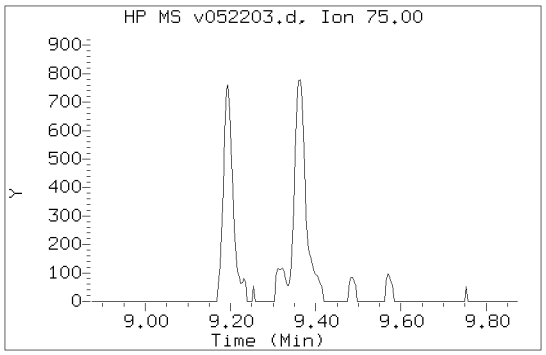
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

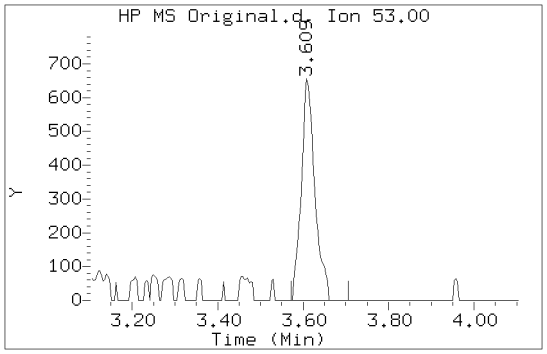


Chloroprene (126-99-8)

Reason Code:

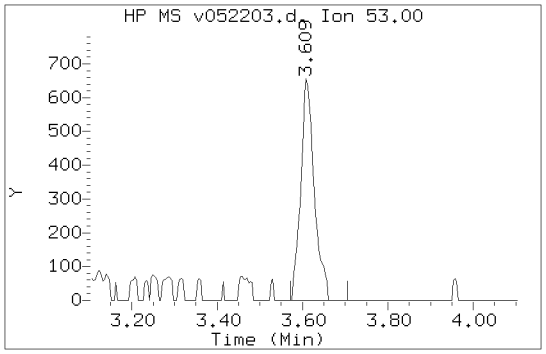
BEFORE

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



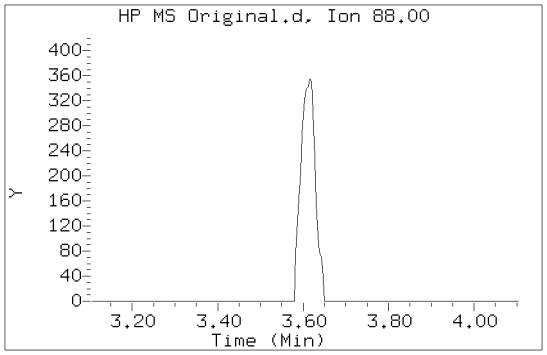
AFTER

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



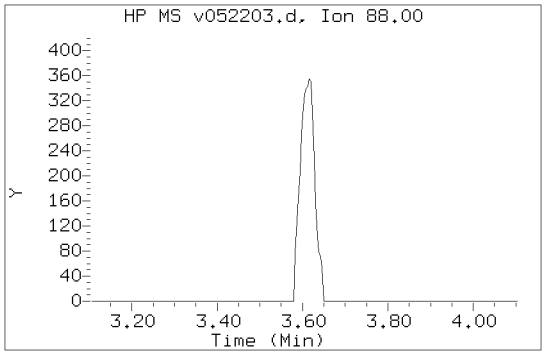
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

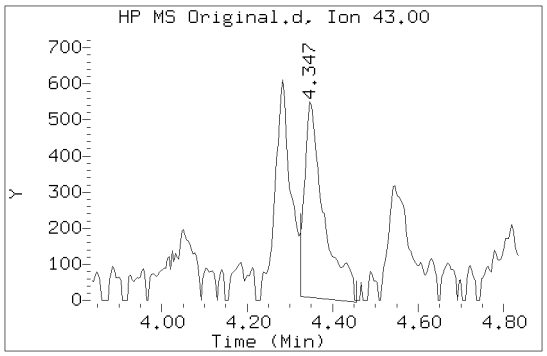


Ethyl Acetate (141-78-6)

Reason Code:

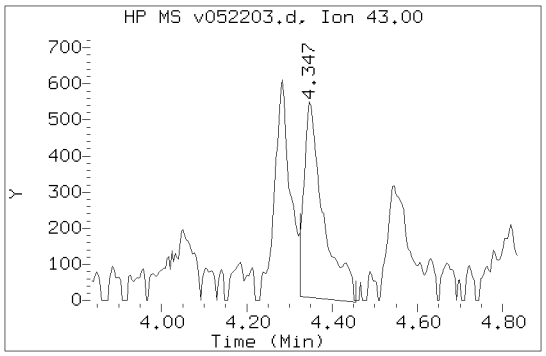
BEFORE

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan

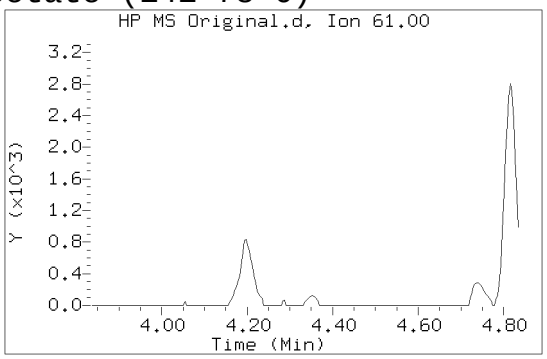


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

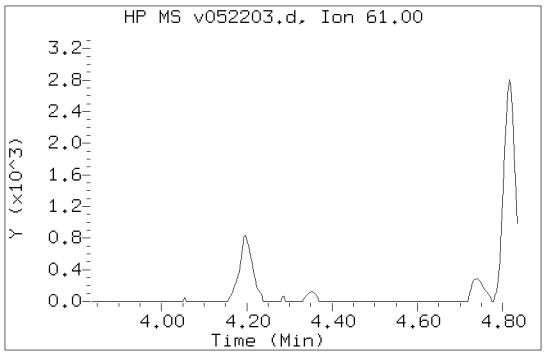
Ethyl Acetate (141-78-6)

Reason Code:

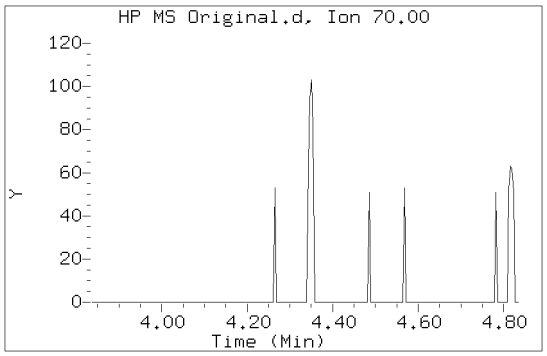
BEFORE
MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



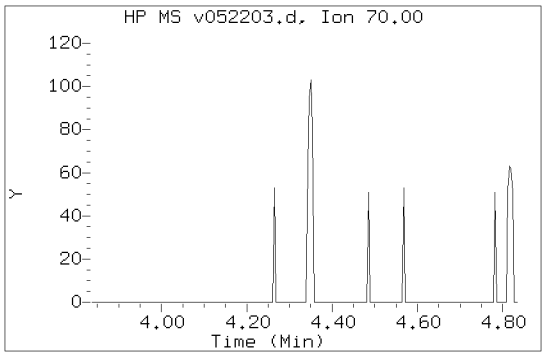
AFTER
MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



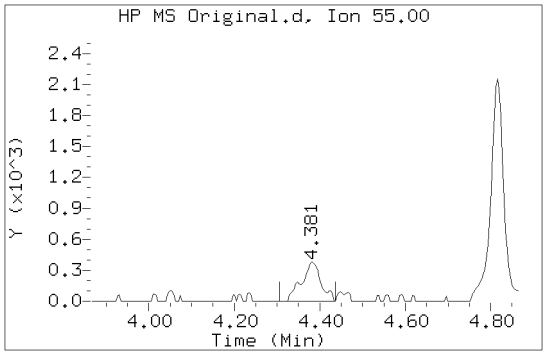
AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



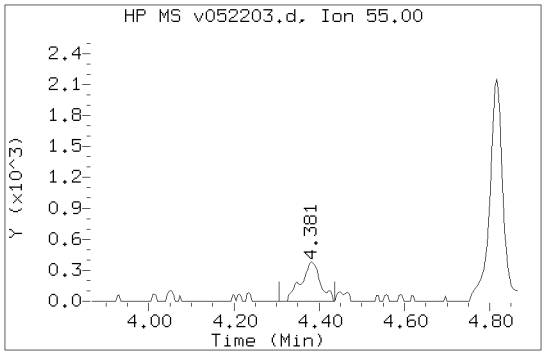
Methyl Acrylate (96-33-3)

Reason Code:

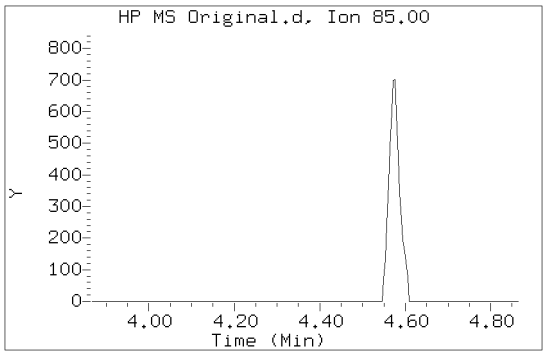
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AREA
1203
HEIGHT
381
23-May-2024
09:51
firat
tastan



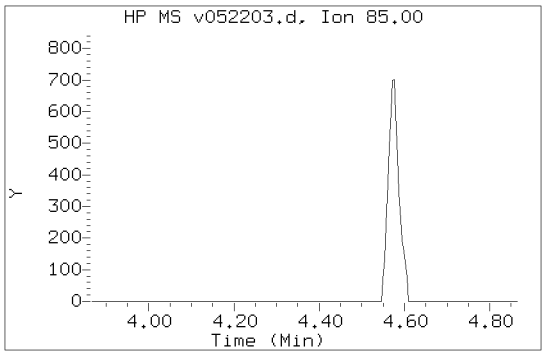
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AREA
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HEIGHT
381
23-May-2024
09:51
firat
tastan



BEFORE
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85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

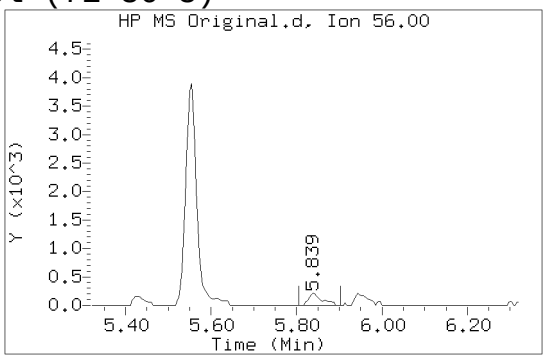


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

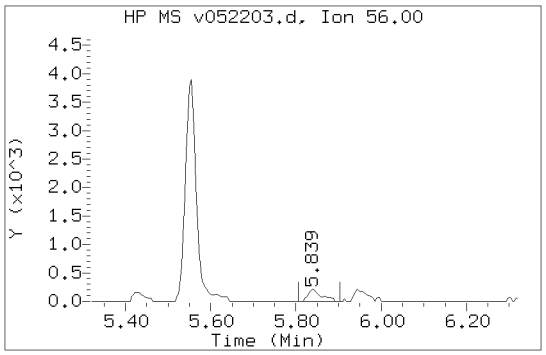
n-Butanol (71-36-3)

Reason Code:

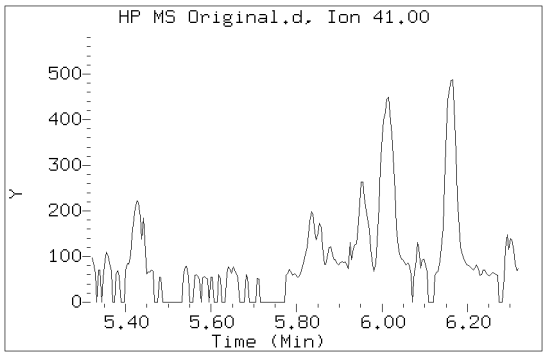
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459
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216
23-May-2024
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firat
tastan



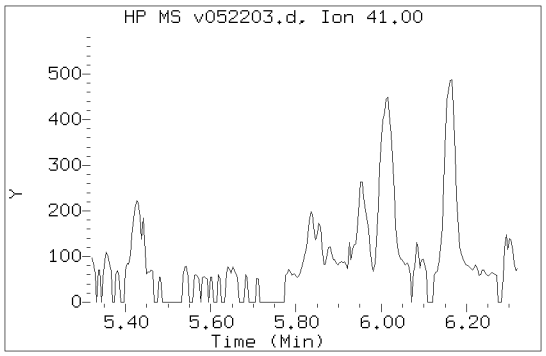
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AREA
459
HEIGHT
216
23-May-2024
09:51
firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



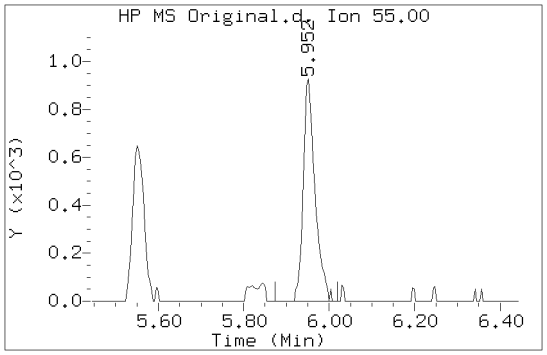
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HEIGHT
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23-May-2024
09:51
firat
tastan



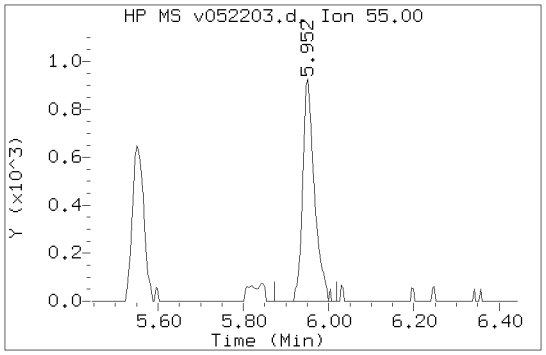
Ethyl Acrylate (140-88-5)

Reason Code:

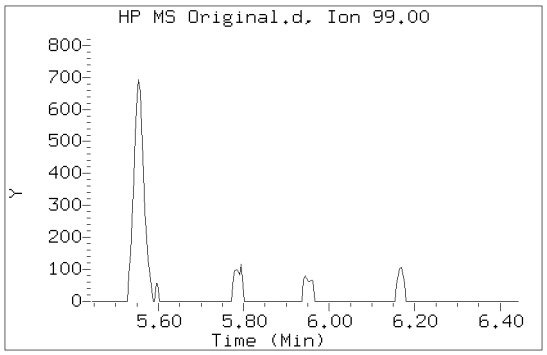
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MASS
55
AREA
1789
HEIGHT
927
23-May-2024
09:51
firat
tastan



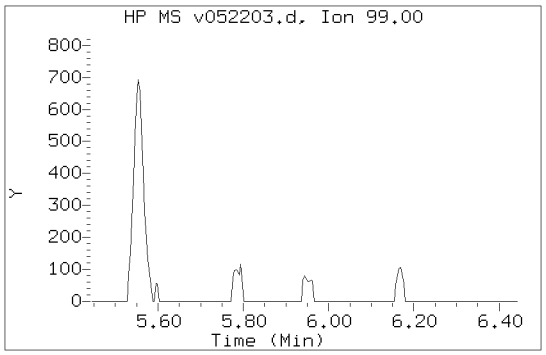
AFTER
MASS
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AREA
1789
HEIGHT
927
23-May-2024
09:51
firat
tastan



BEFORE
MASS
99
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



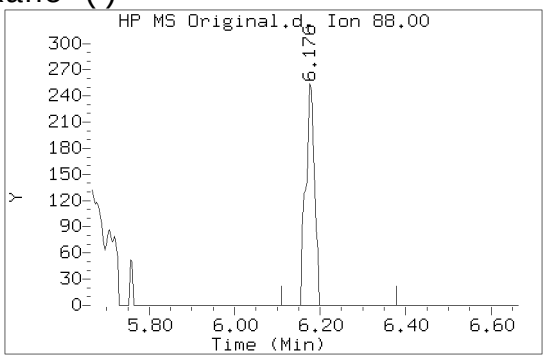
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

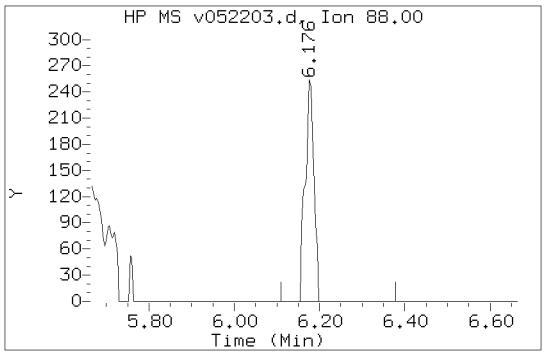
BEFORE

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AREA
374
HEIGHT
254
23-May-2024
09:51
firat
tastan



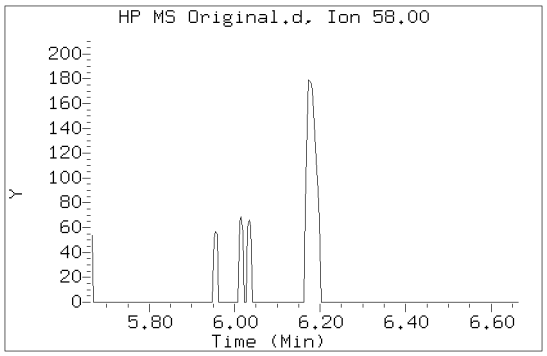
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374
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254
23-May-2024
09:51
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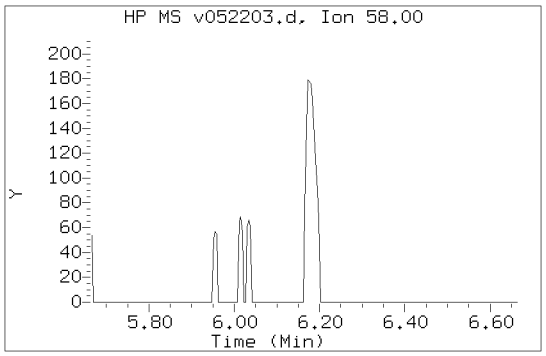
BEFORE

MASS
58
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HEIGHT
0
23-May-2024
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firat
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AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

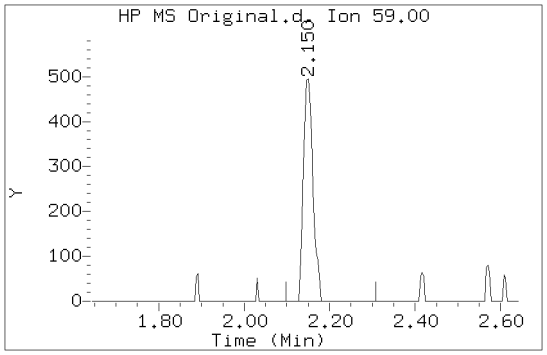


Diethyl ether (60-29-7)

Reason Code:

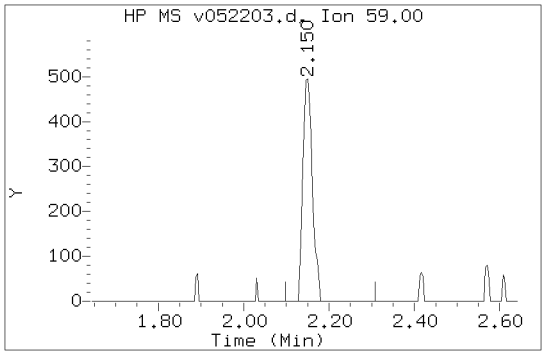
BEFORE

MASS
59
AREA
778
HEIGHT
495
23-May-2024
09:51
firat
tastan



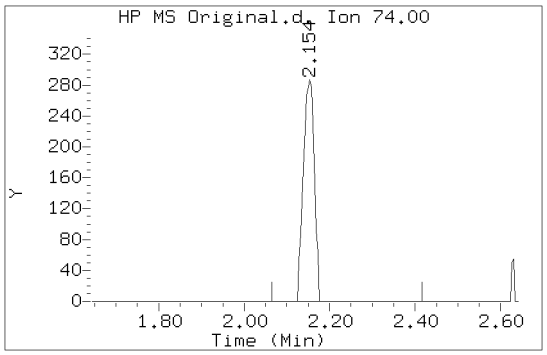
AFTER

MASS
59
AREA
778
HEIGHT
495
23-May-2024
09:51
firat
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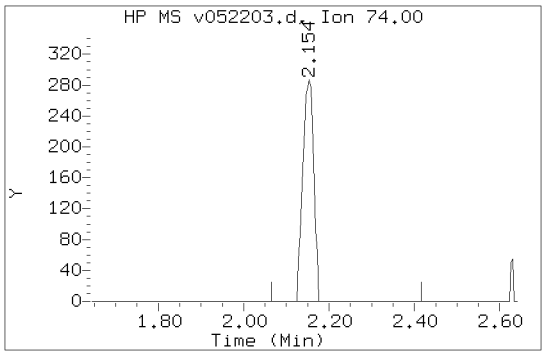
BEFORE

MASS
74
AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



AFTER

MASS
74
AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



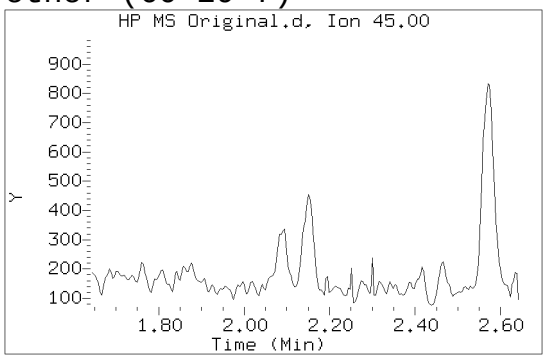
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Diethyl ether (60-29-7)

Reason Code:

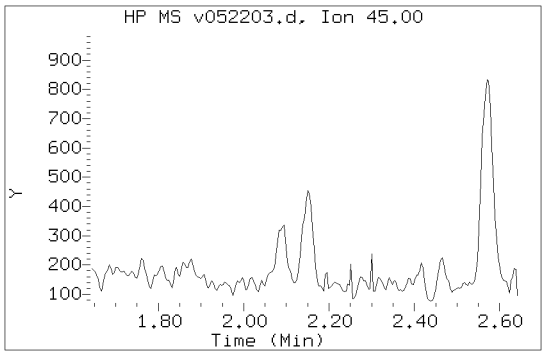
BEFORE

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0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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HEIGHT
0
23-May-2024
09:51
firat
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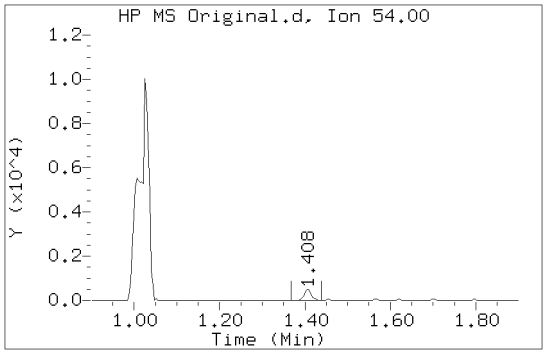


1,3-Butadiene (106-99-0)

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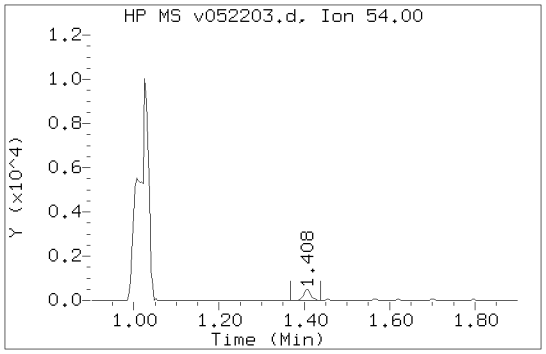
BEFORE

MASS
54
AREA
594
HEIGHT
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23-May-2024
09:51
firat
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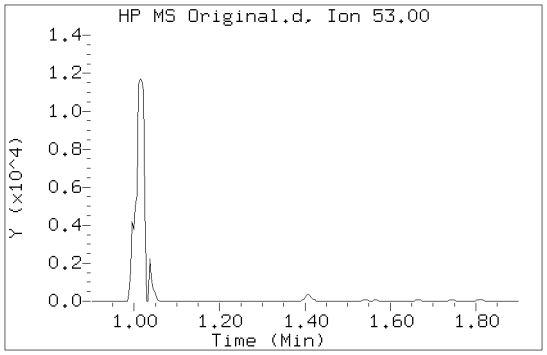
AFTER

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AREA
594
HEIGHT
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23-May-2024
09:51
firat
tastan



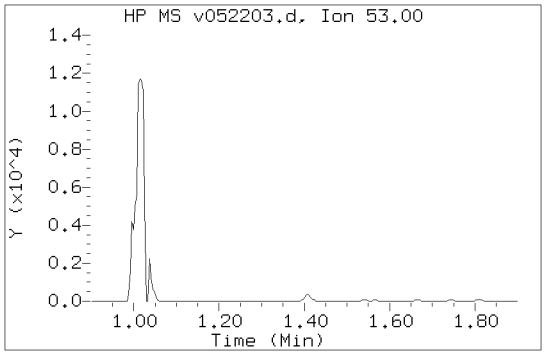
BEFORE

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HEIGHT
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23-May-2024
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AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

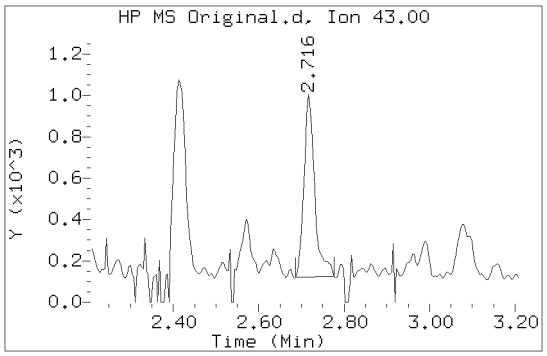


Methyl acetate (79-20-9)

Reason Code:

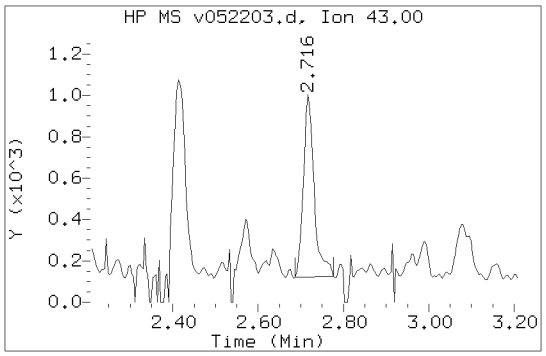
BEFORE

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43
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1546
HEIGHT
880
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1546
HEIGHT
880
23-May-2024
09:51
firat
tastan



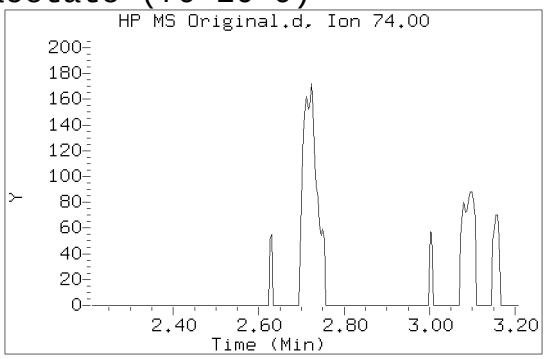
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl acetate (79-20-9)

Reason Code:

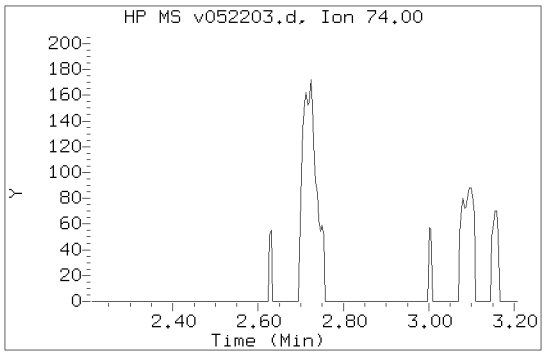
BEFORE

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HEIGHT
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23-May-2024
09:51
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tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

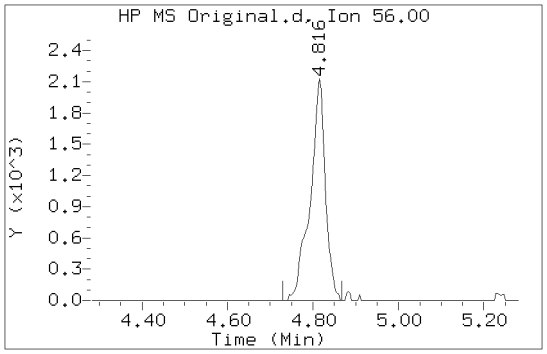


Cyclohexane (110-82-7)

Reason Code:

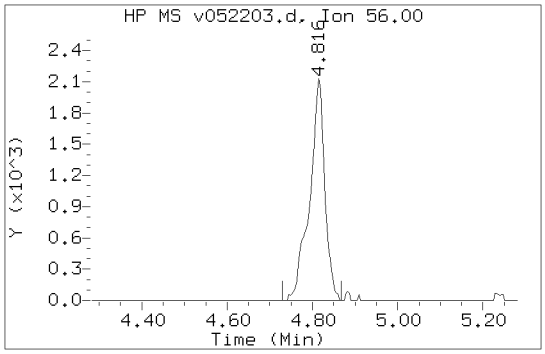
BEFORE

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2129
23-May-2024
09:51
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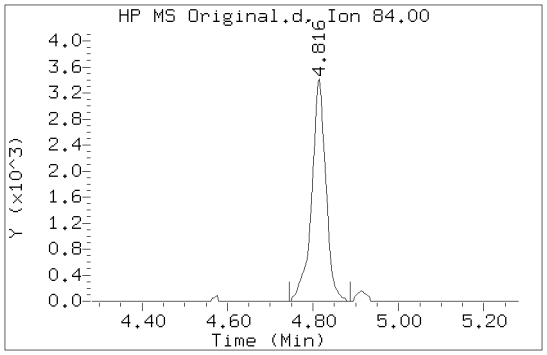
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2129
23-May-2024
09:51
firat
tastan



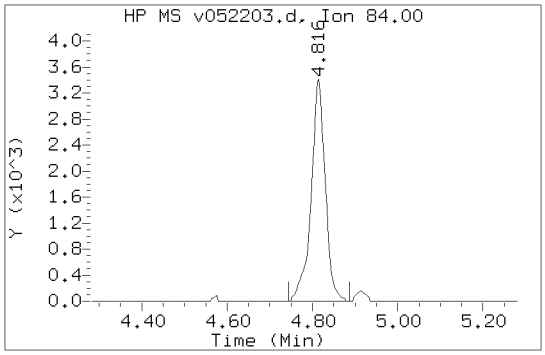
BEFORE

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23-May-2024
09:51
firat
tastan



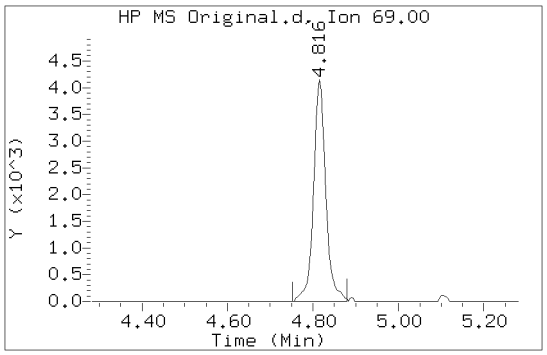
AFTER

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7895
HEIGHT
3416
23-May-2024
09:51
firat
tastan



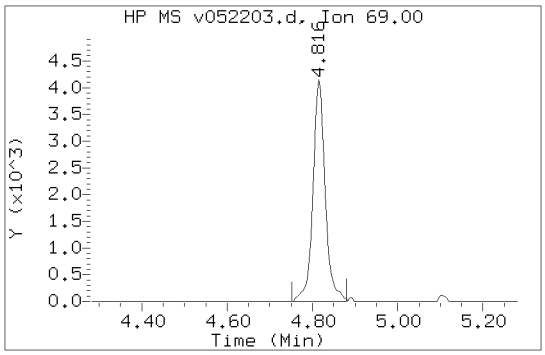
BEFORE

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4148
23-May-2024
09:51
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tastan



AFTER

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8283
HEIGHT
4148
23-May-2024
09:51
firat
tastan



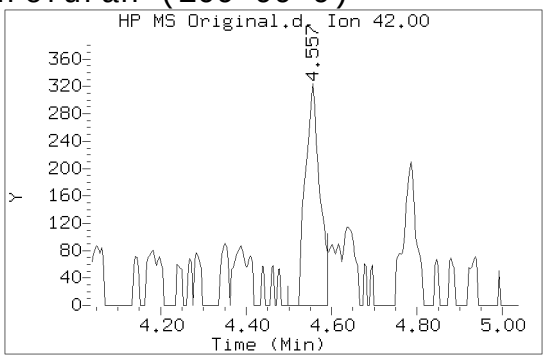
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

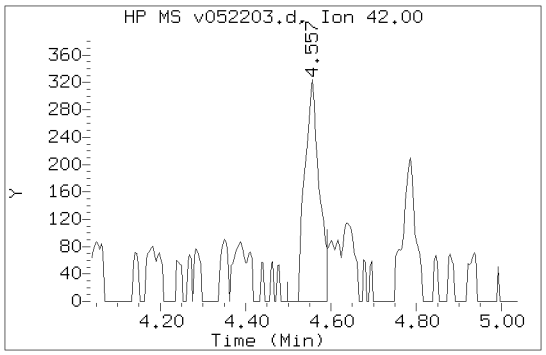
BEFORE

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AREA
763
HEIGHT
324
23-May-2024
09:51
firat
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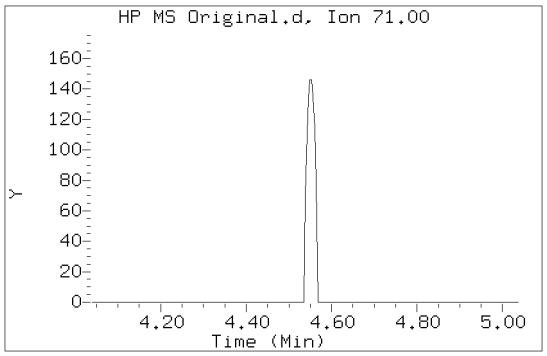
AFTER

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763
HEIGHT
324
23-May-2024
09:51
firat
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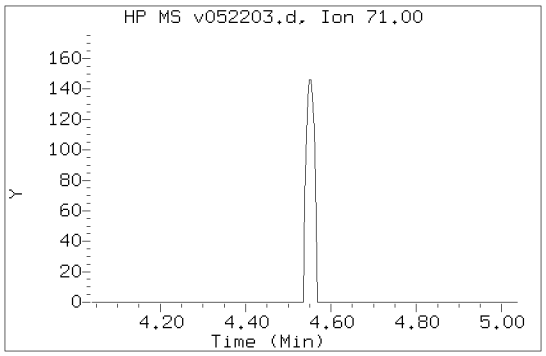
BEFORE

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23-May-2024
09:51
firat
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AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

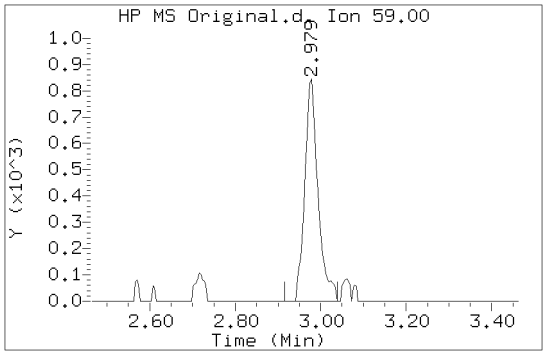


Tert-butyl alcohol (75-65-0)

Reason Code:

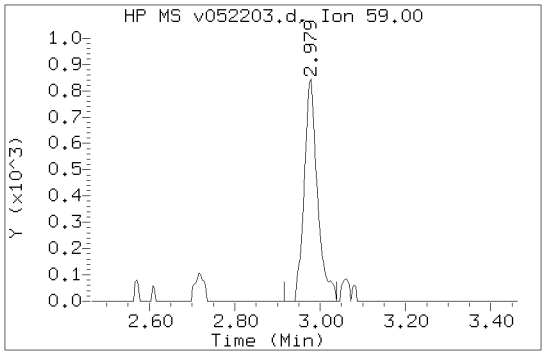
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845
23-May-2024
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firat
tastan



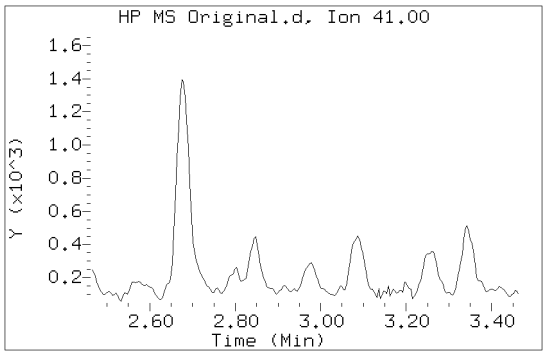
AFTER

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AREA
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HEIGHT
845
23-May-2024
09:51
firat
tastan



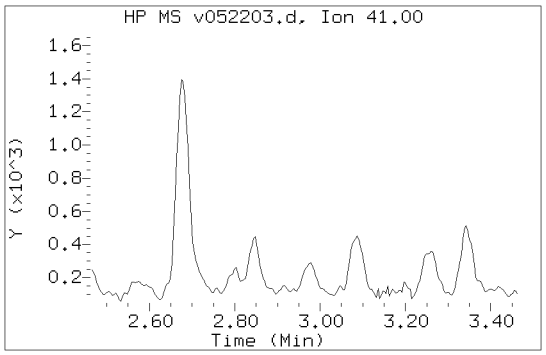
BEFORE

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

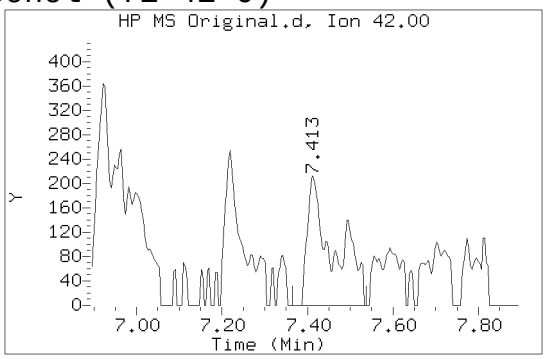


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

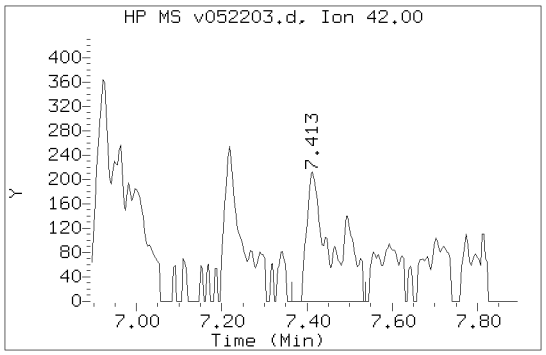
Amyl alcohol (71-41-0)

Reason Code:

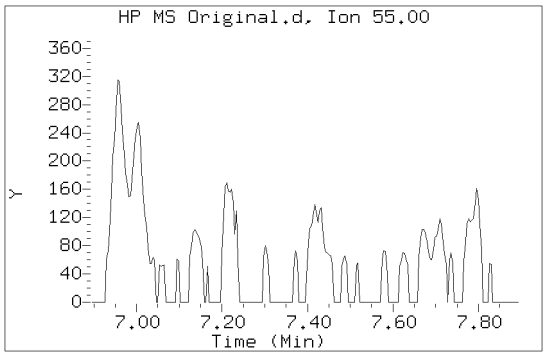
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903
HEIGHT
213
23-May-2024
09:51
firat
tastan



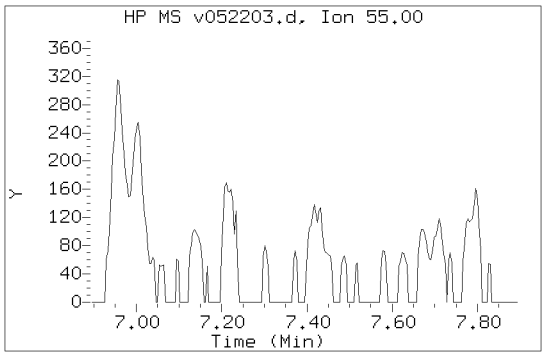
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903
HEIGHT
213
23-May-2024
09:51
firat
tastan



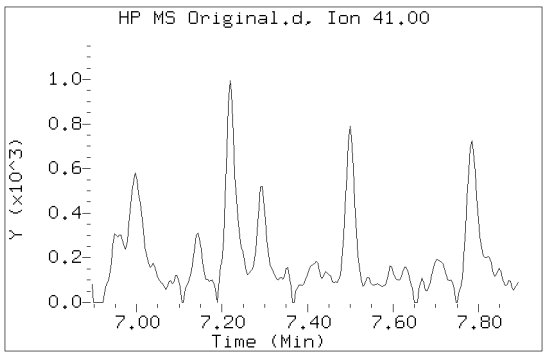
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55
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HEIGHT
0
23-May-2024
09:51
firat
tastan



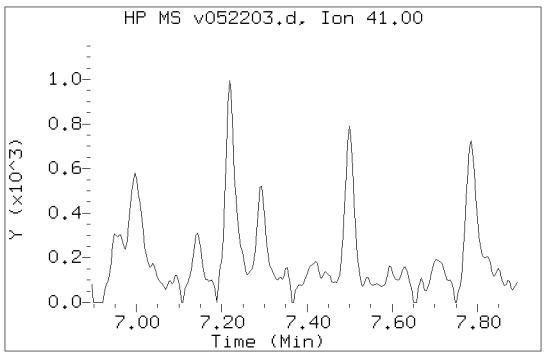
AFTER
MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



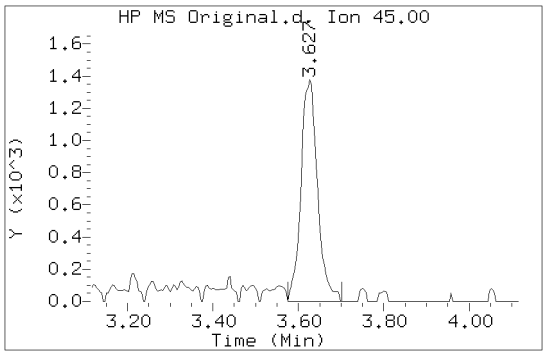
AFTER
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HEIGHT
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23-May-2024
09:51
firat
tastan



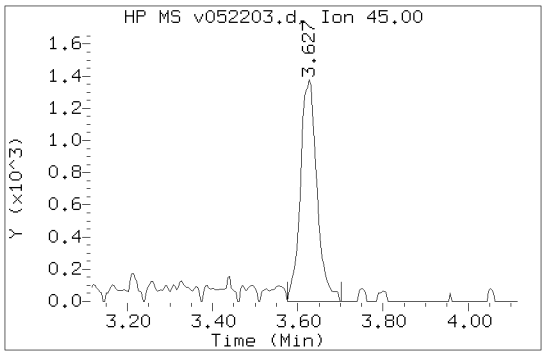
Diisopropyl ether (108-20-3)

Reason Code:

BEFORE
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AREA
3742
HEIGHT
1378
23-May-2024
09:51
firat
tastan



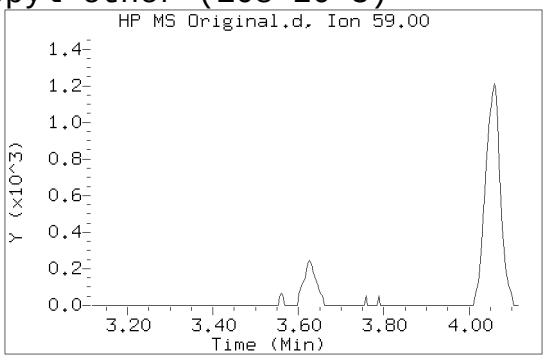
AFTER
MASS
45
AREA
3742
HEIGHT
1378
23-May-2024
09:51
firat
tastan



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

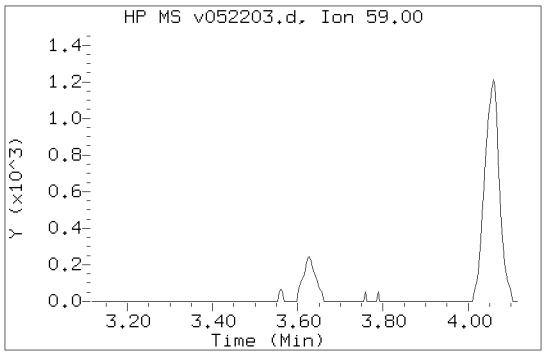
Diisopropyl ether (108-20-3)

BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

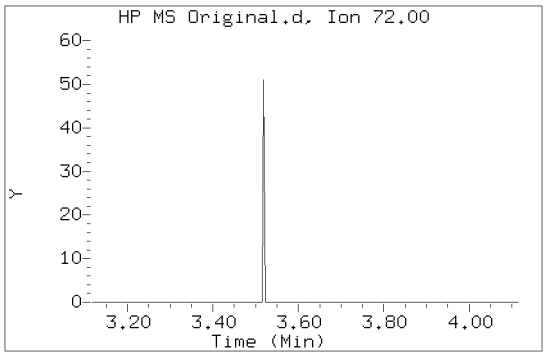


Reason Code:

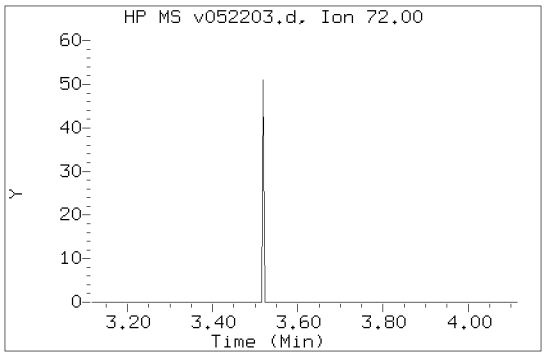
AFTER
MASS
59
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
72
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

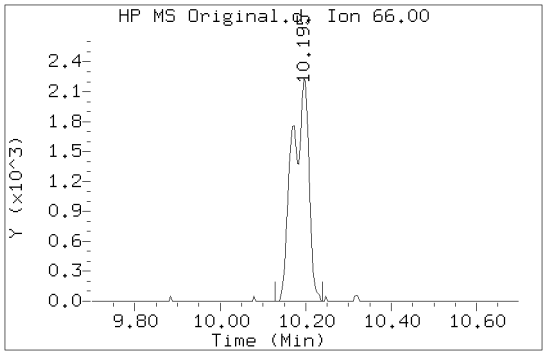


AFTER
MASS
72
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HEIGHT
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23-May-2024
09:51
firat
tastan



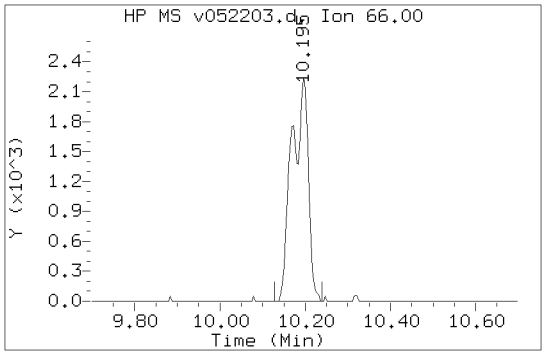
Dicyclopentadiene (77-73-6)

BEFORE
MASS
66
AREA
6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan

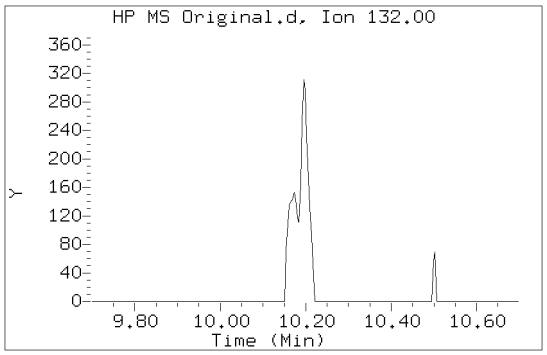


Reason Code:

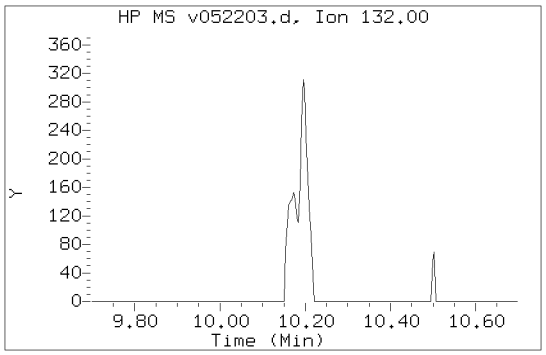
AFTER
MASS
66
AREA
6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan



BEFORE
MASS
132
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
132
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



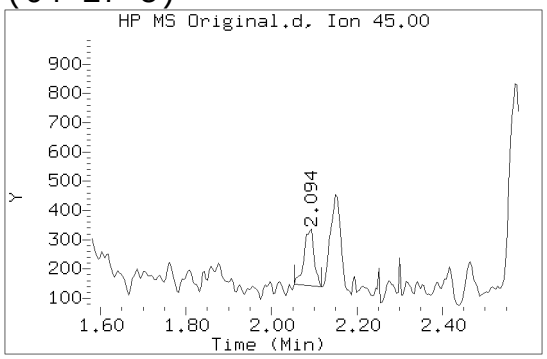
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

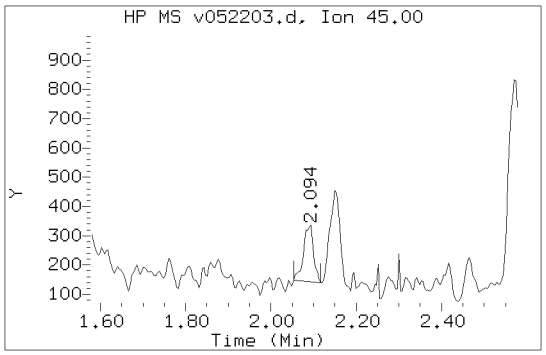
BEFORE

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322
HEIGHT
193
23-May-2024
09:51
firat
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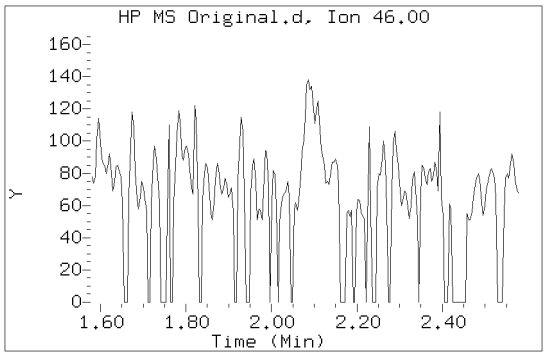
AFTER

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23-May-2024
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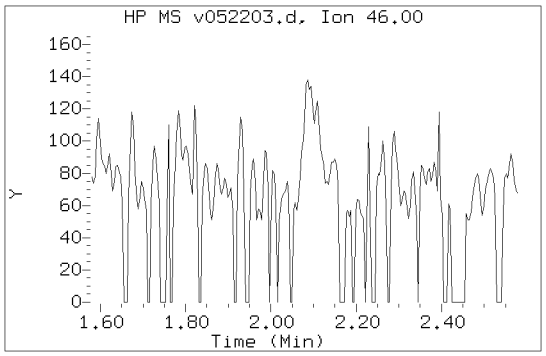
BEFORE

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23-May-2024
09:51
firat
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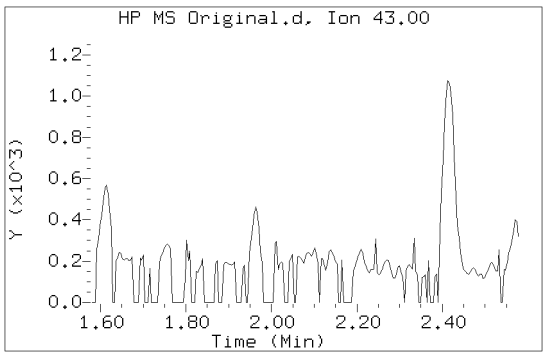
AFTER

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23-May-2024
09:51
firat
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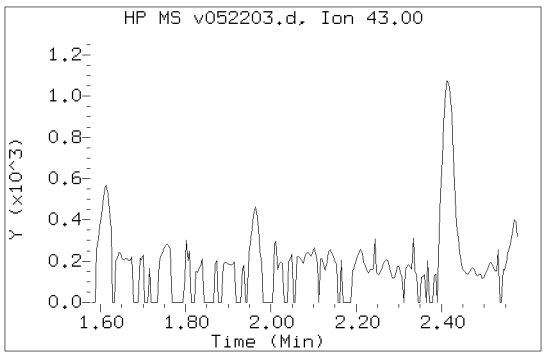
BEFORE

MASS
43
AREA
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HEIGHT
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23-May-2024
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AFTER

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HEIGHT
0
23-May-2024
09:51
firat
tastan

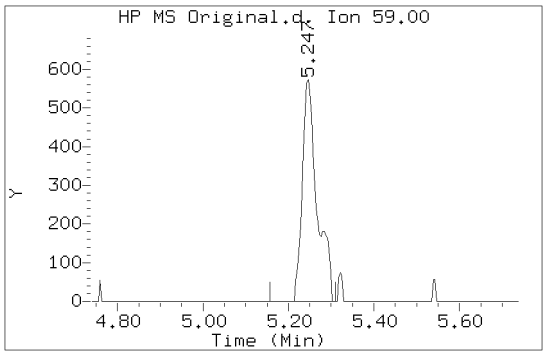


tert-Butyl formate (762-75-4)

Reason Code:

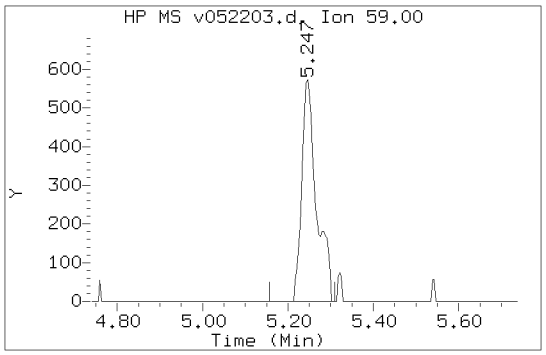
BEFORE

MASS
59
AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan

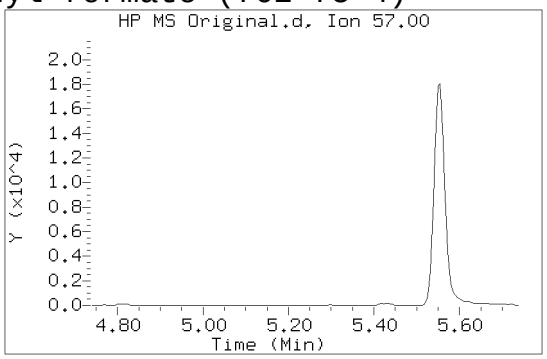


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

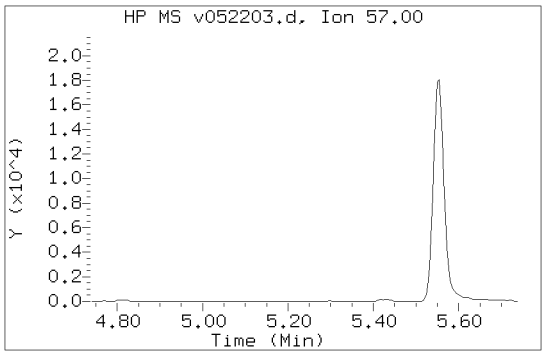
tert-Butyl formate (762-75-4)

Reason Code:

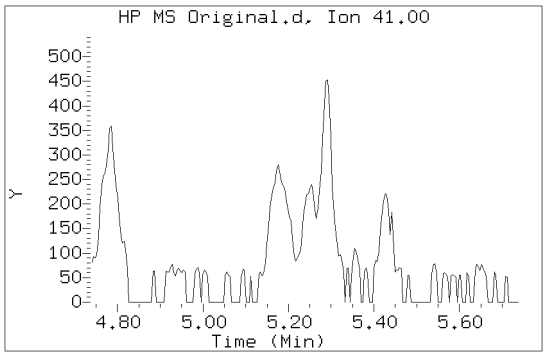
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HEIGHT
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23-May-2024
09:51
firat
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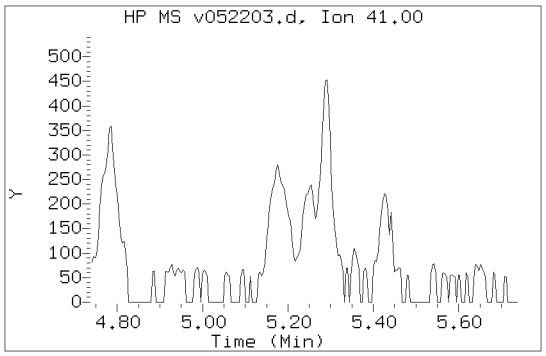
AFTER
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57
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



BEFORE
MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



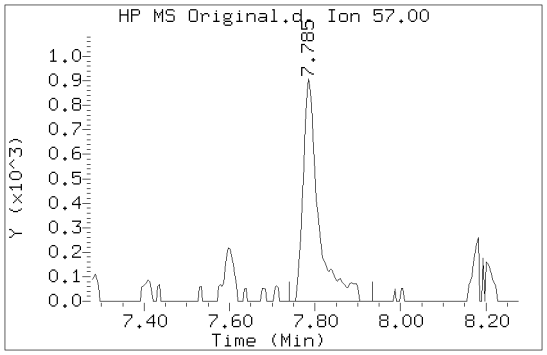
AFTER
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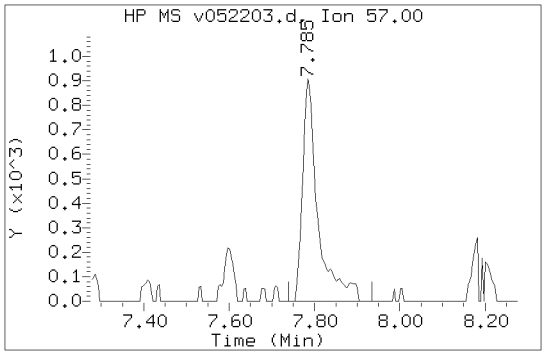
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

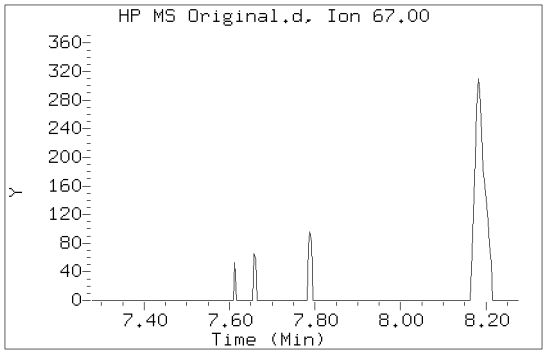
BEFORE
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



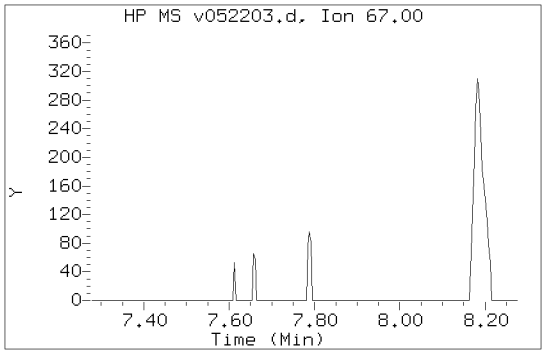
AFTER
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



BEFORE
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
67
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



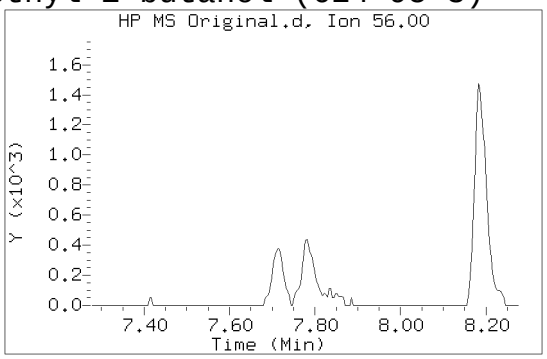
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

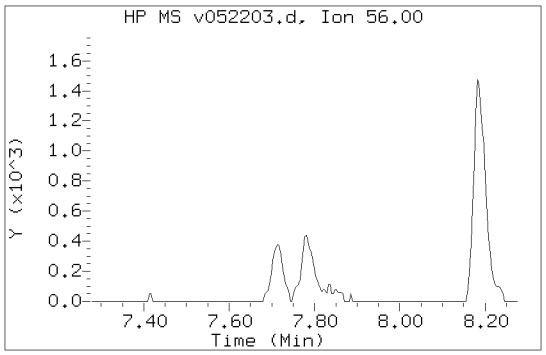
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

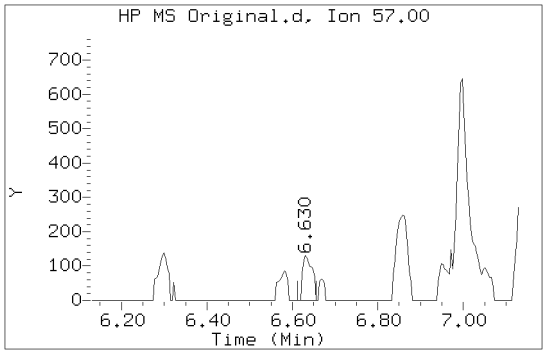


Epichlorohydrin (106-89-8)

Reason Code:

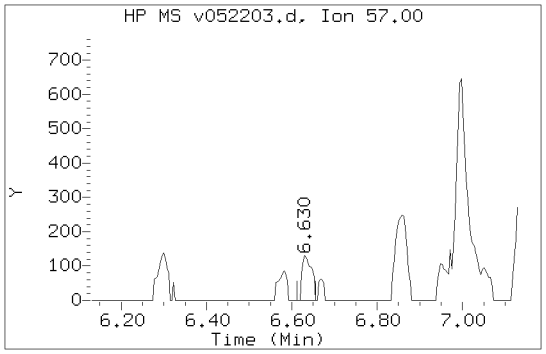
BEFORE

MASS
57
AREA
205
HEIGHT
130
23-May-2024
09:51
firat
tastan



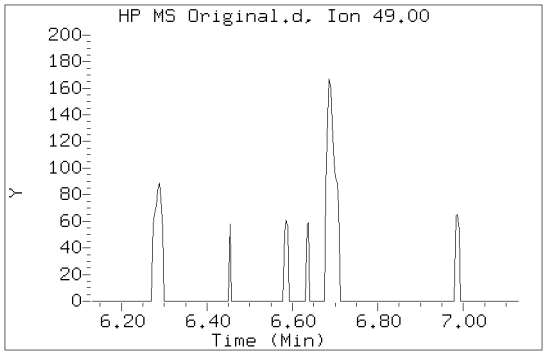
AFTER

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205
HEIGHT
130
23-May-2024
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firat
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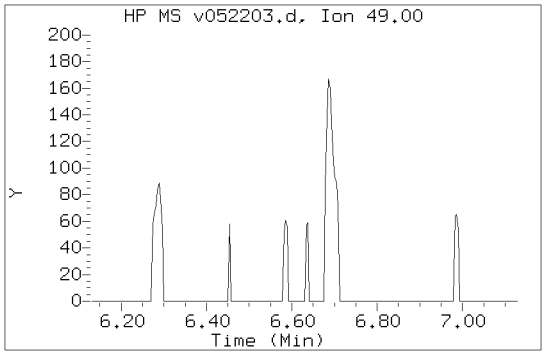
BEFORE

MASS
49
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
49
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HEIGHT
0
23-May-2024
09:51
firat
tastan

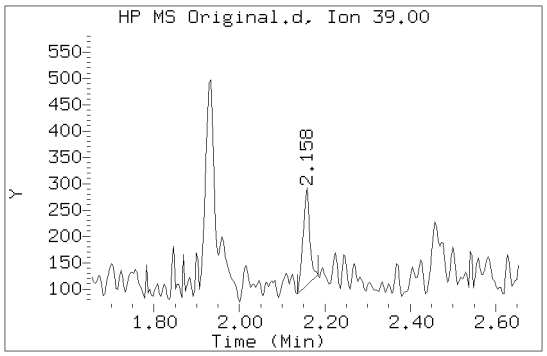


Isoprene (78-79-5)

Reason Code:

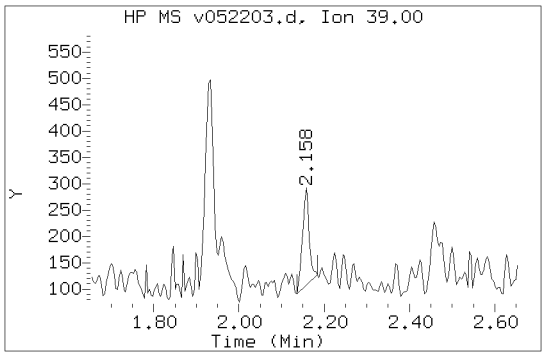
BEFORE

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39
AREA
204
HEIGHT
184
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
204
HEIGHT
184
23-May-2024
09:51
firat
tastan

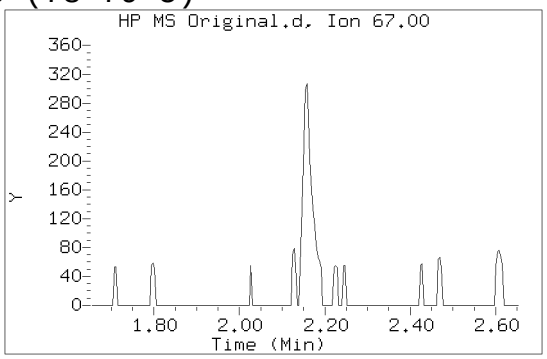


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

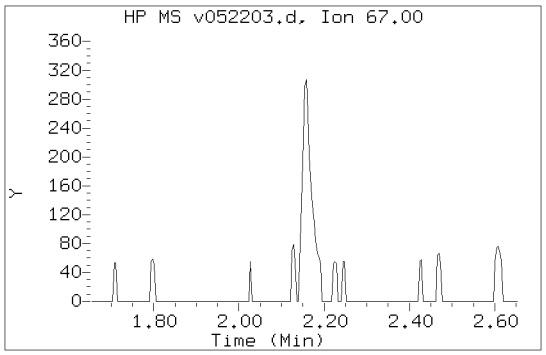
Isoprene (78-79-5)

Reason Code:

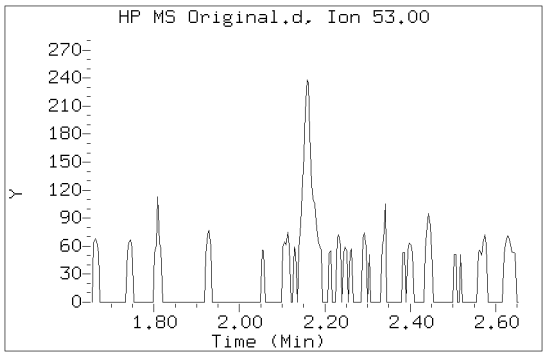
BEFORE
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



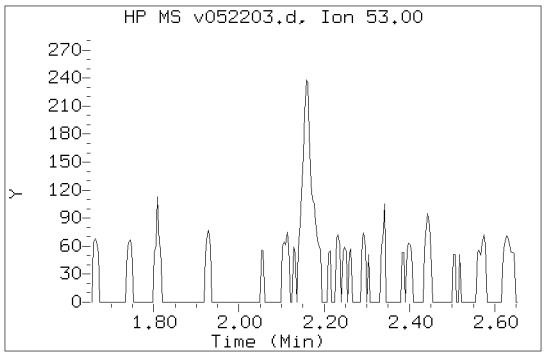
AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
53
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



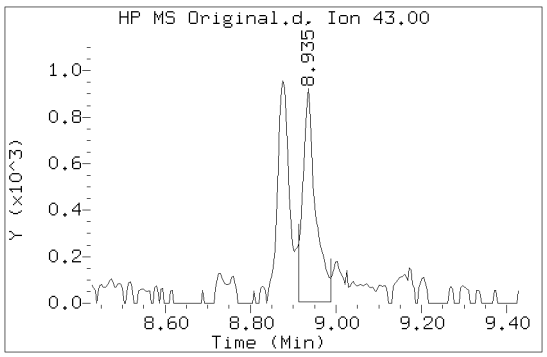
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HEIGHT
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23-May-2024
09:51
firat
tastan



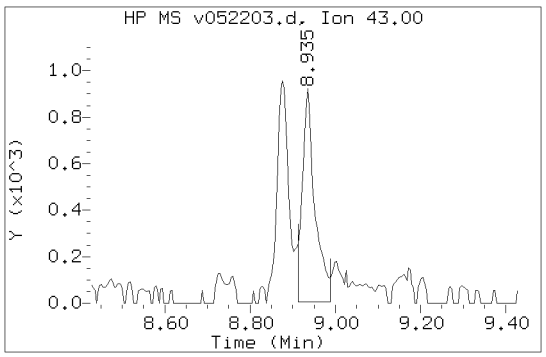
n-Amyl acetate (628-63-7)

Reason Code:

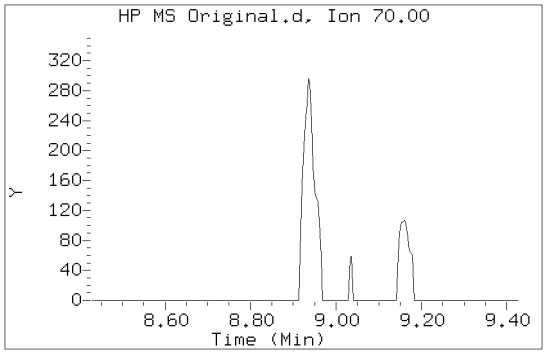
BEFORE
MASS
43
AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



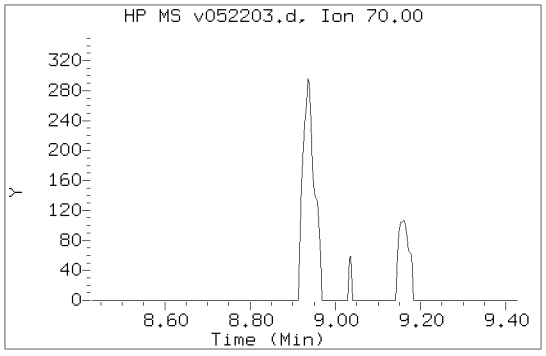
AFTER
MASS
43
AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



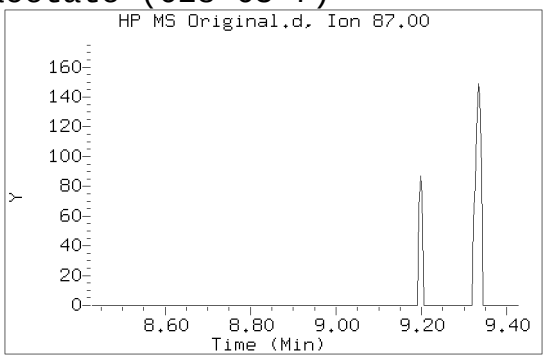
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

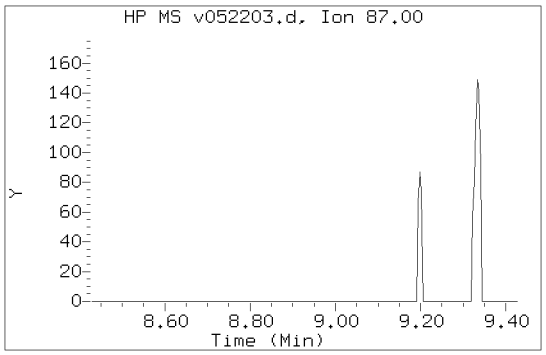
BEFORE

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

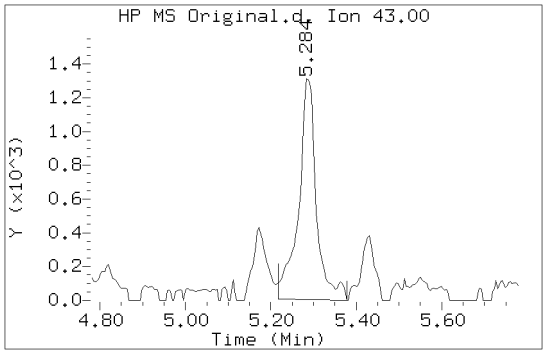


Isopropyl acetate (108-21-4)

Reason Code:

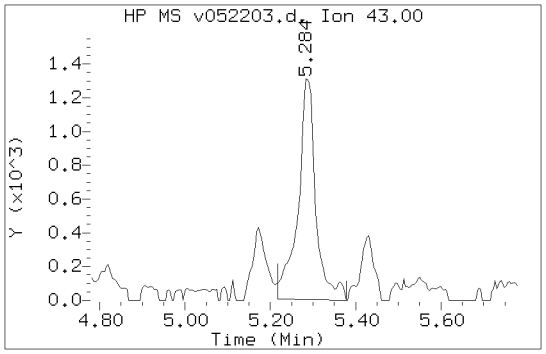
BEFORE

MASS
43
AREA
3832
HEIGHT
1308
23-May-2024
09:51
firat
tastan



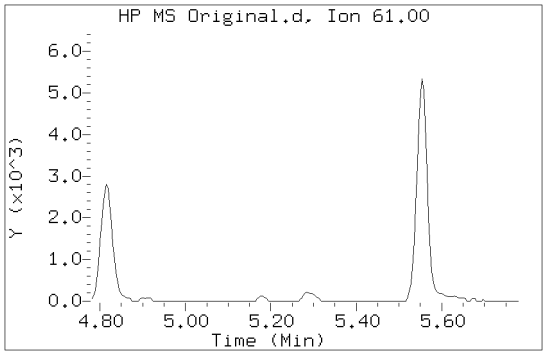
AFTER

MASS
43
AREA
3832
HEIGHT
1308
23-May-2024
09:51
firat
tastan



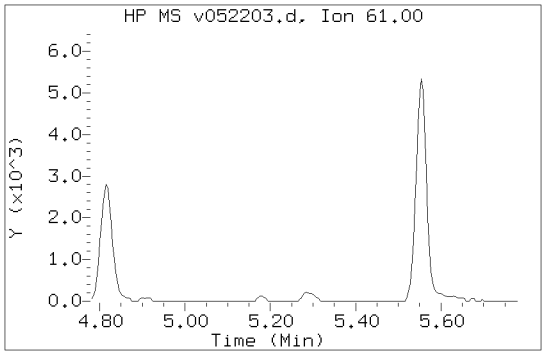
BEFORE

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

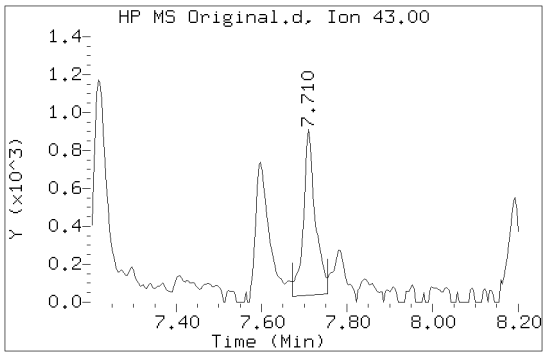


n-Butyl acetate (123-86-4)

Reason Code:

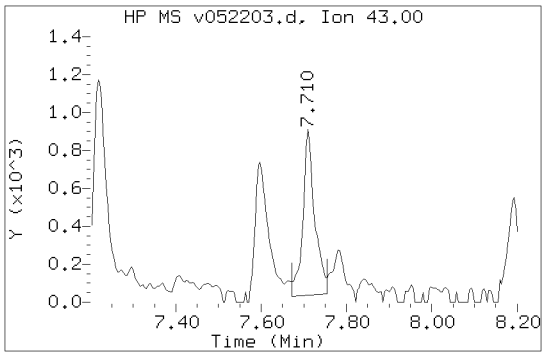
BEFORE

MASS
43
AREA
1715
HEIGHT
872
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1715
HEIGHT
872
23-May-2024
09:51
firat
tastan

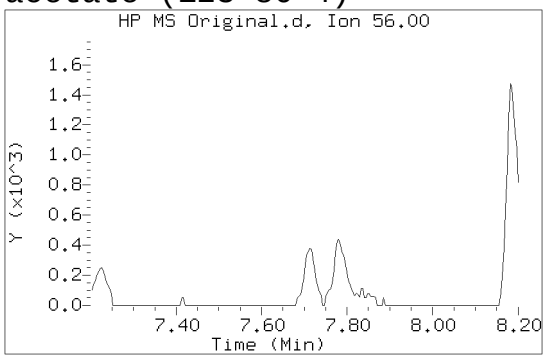


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

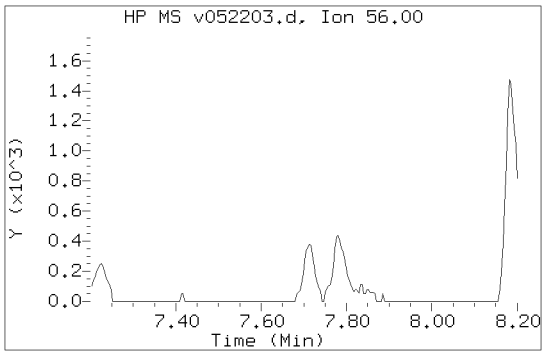
n-Butyl acetate (123-86-4)

Reason Code:

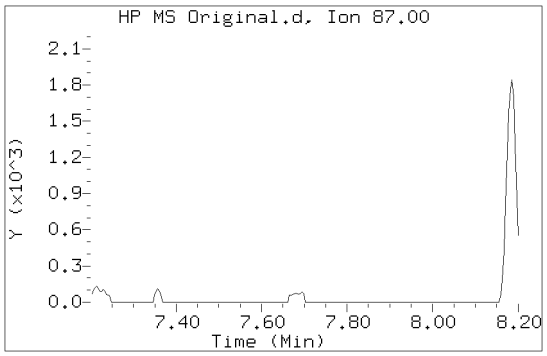
BEFORE
MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



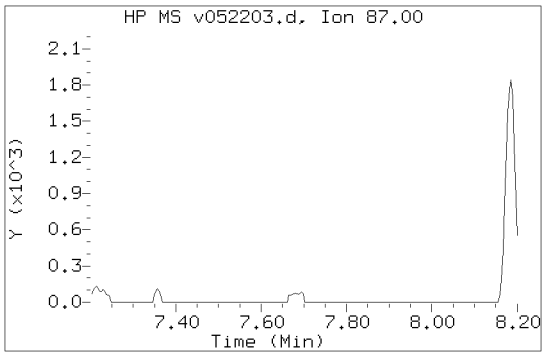
AFTER
MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



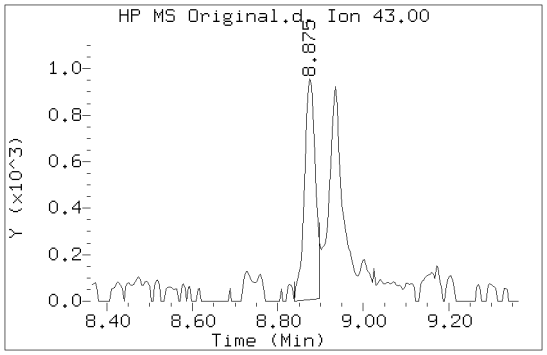
AFTER
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HEIGHT
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23-May-2024
09:51
firat
tastan



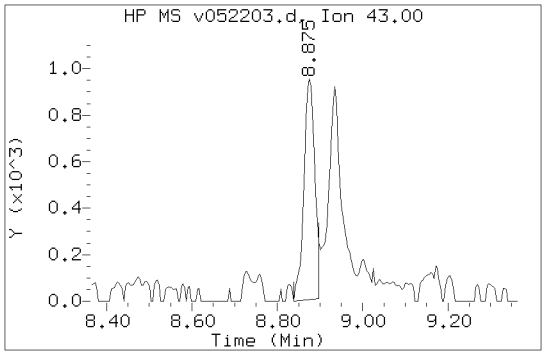
Methyl Amyl Ketone (110-43-0)

Reason Code:

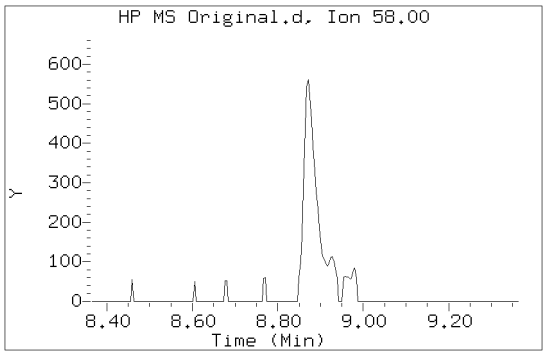
BEFORE
MASS
43
AREA
1710
HEIGHT
949
23-May-2024
09:51
firat
tastan



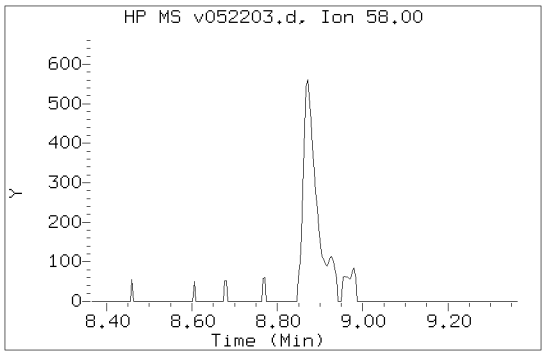
AFTER
MASS
43
AREA
1710
HEIGHT
949
23-May-2024
09:51
firat
tastan



BEFORE
MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



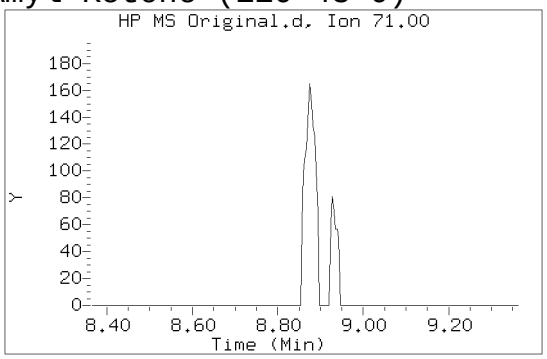
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

Reason Code:

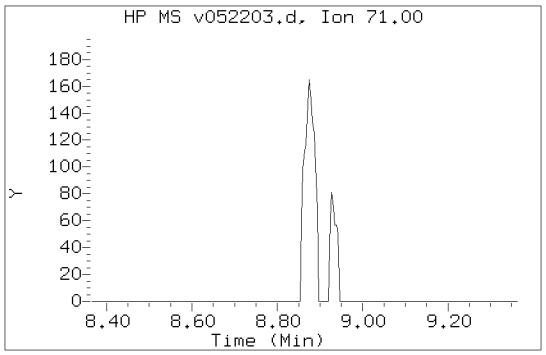
BEFORE

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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HEIGHT
0
23-May-2024
09:51
firat
tastan

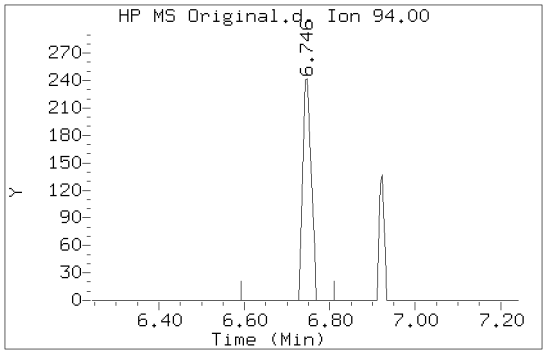


Dimethyl Disulfide (624-92-0)

Reason Code:

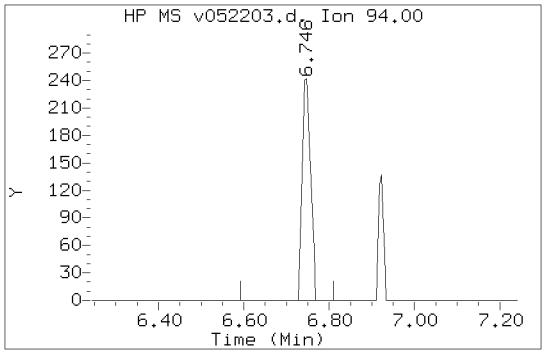
BEFORE

MASS
94
AREA
343
HEIGHT
242
23-May-2024
09:51
firat
tastan



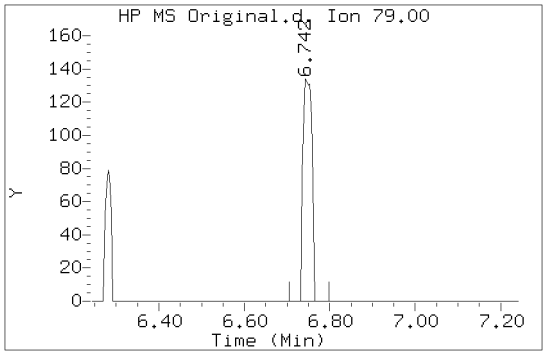
AFTER

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343
HEIGHT
242
23-May-2024
09:51
firat
tastan



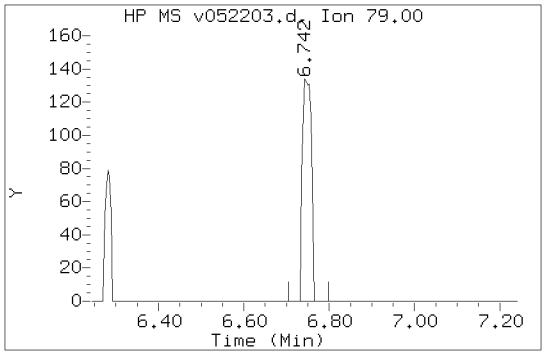
BEFORE

MASS
79
AREA
201
HEIGHT
134
23-May-2024
09:51
firat
tastan



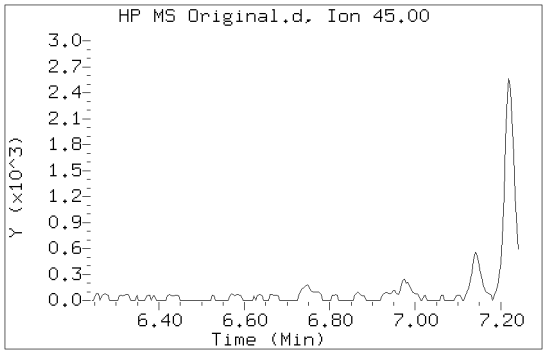
AFTER

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HEIGHT
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23-May-2024
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firat
tastan



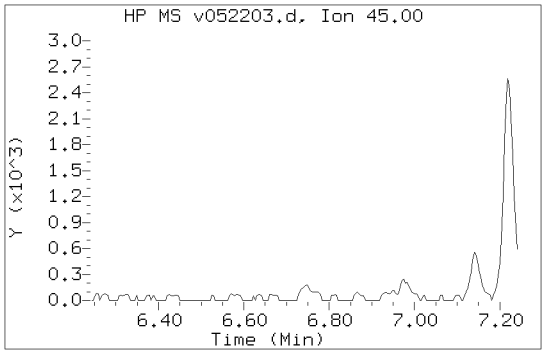
BEFORE

MASS
45
AREA
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HEIGHT
0
23-May-2024
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firat
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AFTER

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HEIGHT
0
23-May-2024
09:51
firat
tastan

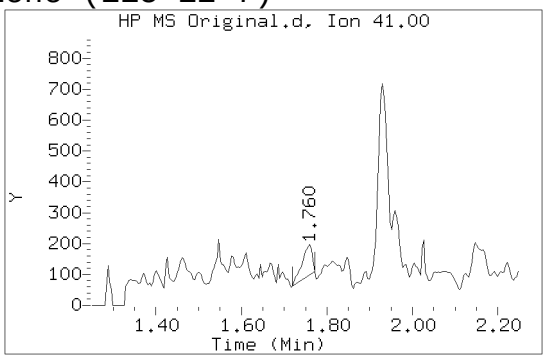


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InstruID : VOA9.i
LabSampID : VSTD00.5

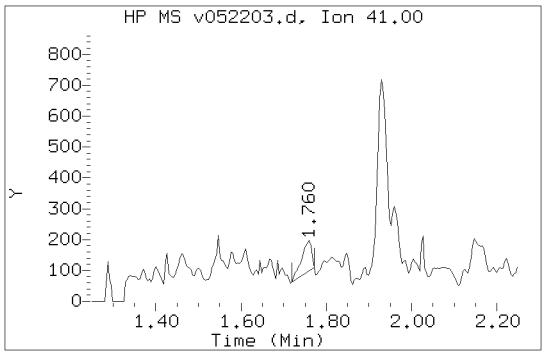
Isobutylene (115-11-7)

Reason Code:

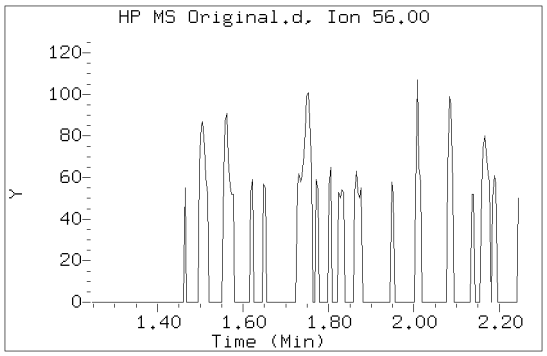
BEFORE
MASS
41
AREA
164
HEIGHT
96
23-May-2024
09:51
firat
tastan



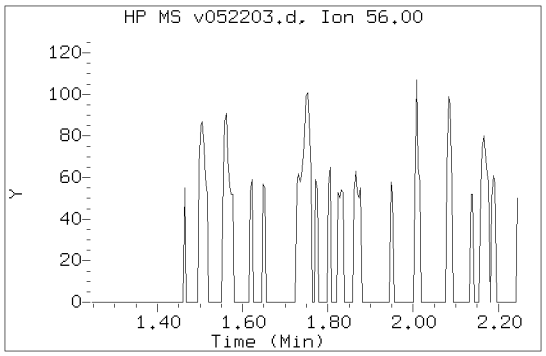
AFTER
MASS
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AREA
164
HEIGHT
96
23-May-2024
09:51
firat
tastan



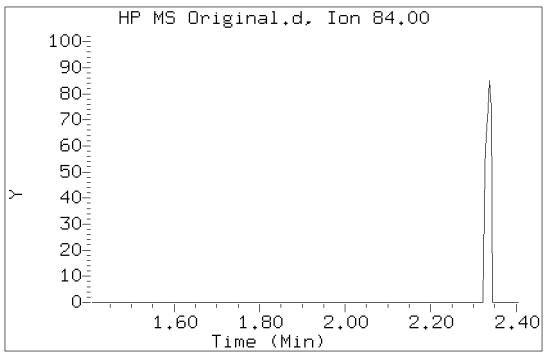
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HEIGHT
0
23-May-2024
09:51
firat
tastan



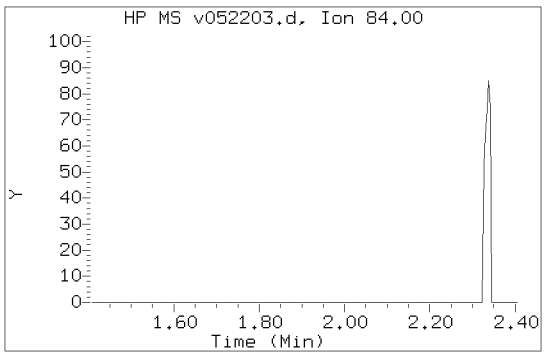
AFTER
MASS
56
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



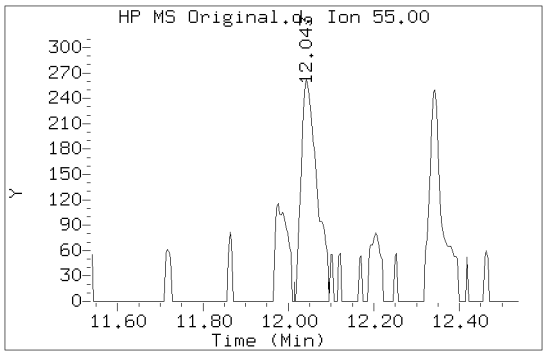
AFTER
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84
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



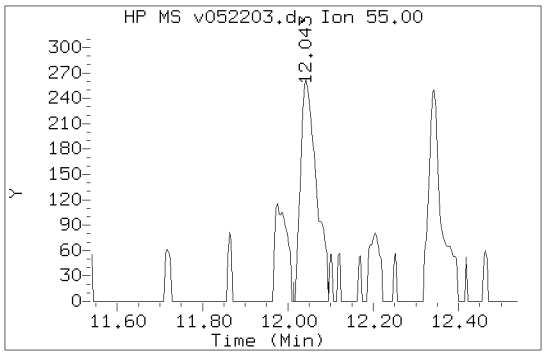
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
680
HEIGHT
262
23-May-2024
09:51
firat
tastan



AFTER
MASS
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AREA
680
HEIGHT
262
23-May-2024
09:51
firat
tastan



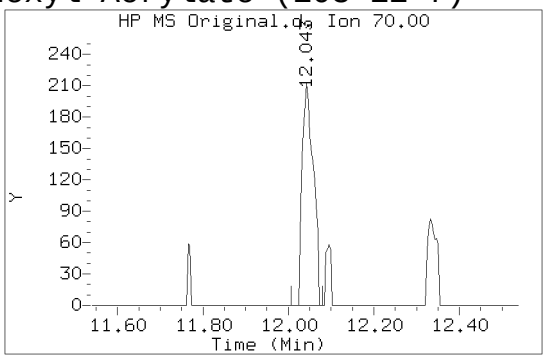
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

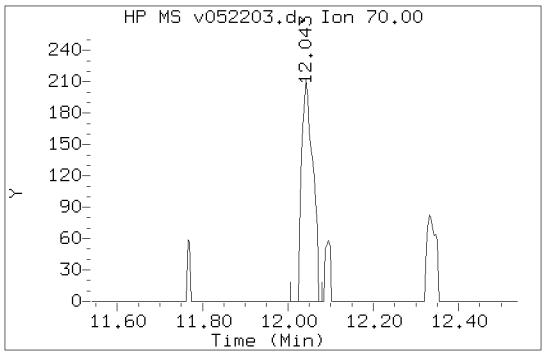
BEFORE

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70
AREA
389
HEIGHT
212
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 22-MAY-2024 21:05
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\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 20:44 Cal File: V052203.D
Als bottle: 31 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	229096	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	999	1.00000	0.81(M)
3	Chloromethane	50	1.295	1.295	(0.269)	11392	1.00000	1.60
4	Propionitrile	54	4.343	4.343	(0.902)	3786	10.0000	13.07(aM)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	2017	1.00000	0.97
6	Bromomethane	94	1.614	1.614	(0.335)	1774	1.00000	1.56
7	Chloroethane	64	1.700	1.700	(0.353)	1699	1.00000	1.18
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2065	1.00000	0.87
9	Acrolein	56	2.266	2.266	(0.471)	475	2.00000	3.98(aM)
10	Acetone	43	2.409	2.409	(0.500)	2810	2.00000	3.39
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	1551	1.00000	1.07
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	5996	20.0000	21.68(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	2354	10.0000	12.44(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	5992	1.00000	1.23(a)
15	Iodomethane	142	2.465	2.465	(0.512)	1167	2.00000	2.71(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	2044	2.00000	2.81
17	Methylene Chloride	84	2.795	2.795	(0.580)	4514	1.00000	1.59
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	5966	1.00000	1.29
19	Carbon Disulfide	76	2.517	2.517	(0.523)	8490	2.00000	1.94
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	1839	1.00000	1.11

21 Vinyl Acetate	43	4.347	4.347 (0.903)	2690	2.00000	2.37(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3832	1.00000	1.16(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	2599	1.00000	1.02(aM)
	24 2-Butanone	43	4.272	4.272	(0.887)	2158	2.00000	2.02
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	1456	1.00000	1.20(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	1844	1.00000	0.91(M)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2353	1.00000	1.18
	28 Chloroform	83	4.571	4.571	(0.949)	3810	1.00000	1.15
	29 Bromochloromethane	128	4.470	4.470	(0.928)	1171	1.00000	1.19
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	2174	1.00000	1.30
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	2100	1.00000	0.90
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	2084	1.00000	0.86
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	3006	1.00000	1.12
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	1905	1.00000	0.97
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3401	1.00000	1.62
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	339617	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	8834	1.00000	1.13
	38 Trichloroethene	130	5.786	5.786	(1.043)	1941	1.00000	1.03(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	2013	1.00000	0.97(aM)
	40 Methyl Methacrylate	41	5.846	5.846	(1.214)	1155	1.00000	1.61(aM)
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.186)	1242	2.00000	1.88(aM)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	2470	1.00000	1.14(a)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	621	1.00000	1.57(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	1339	1.00000	1.14(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	4527	2.00000	2.12(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1996	1.00000	0.83(aM)
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	308399	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	8273	1.00000	1.32(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	2724	1.00000	1.08(aM)
	50 Toluene	91	6.982	6.982	(0.853)	7775	1.00000	0.99(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1359	1.00000	0.73(aM)
	52 2-Hexanone	43	7.597	7.597	(0.929)	2923	2.00000	2.05(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	1635	1.00000	1.06(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	3587	1.00000	1.10(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1373	1.00000	0.90(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1349	1.00000	0.91(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	1655	1.00000	1.00(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4226	1.00000	1.55(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	6324	1.00000	1.19(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1541	1.00000	0.95(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2548	1.00000	1.01(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	5807	2.00000	1.89(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3078	1.00000	1.02(a)
	64 Styrene	104	8.763	8.763	(1.071)	5013	1.00000	0.98(a)
	66 Bromoform	173	8.920	8.920	(1.090)	721	1.00000	0.76(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.108)	6959	1.00000	0.93(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	3041	1.00000	1.24(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3587	1.00000	1.50(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159294	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	2895	1.00000	1.18(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	701	1.00000	1.27(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	7637	1.00000	0.92(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	2406	1.00000	1.14(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	5105	1.00000	0.89(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	5690	1.00000	1.06(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	6353	1.00000	1.04(a)

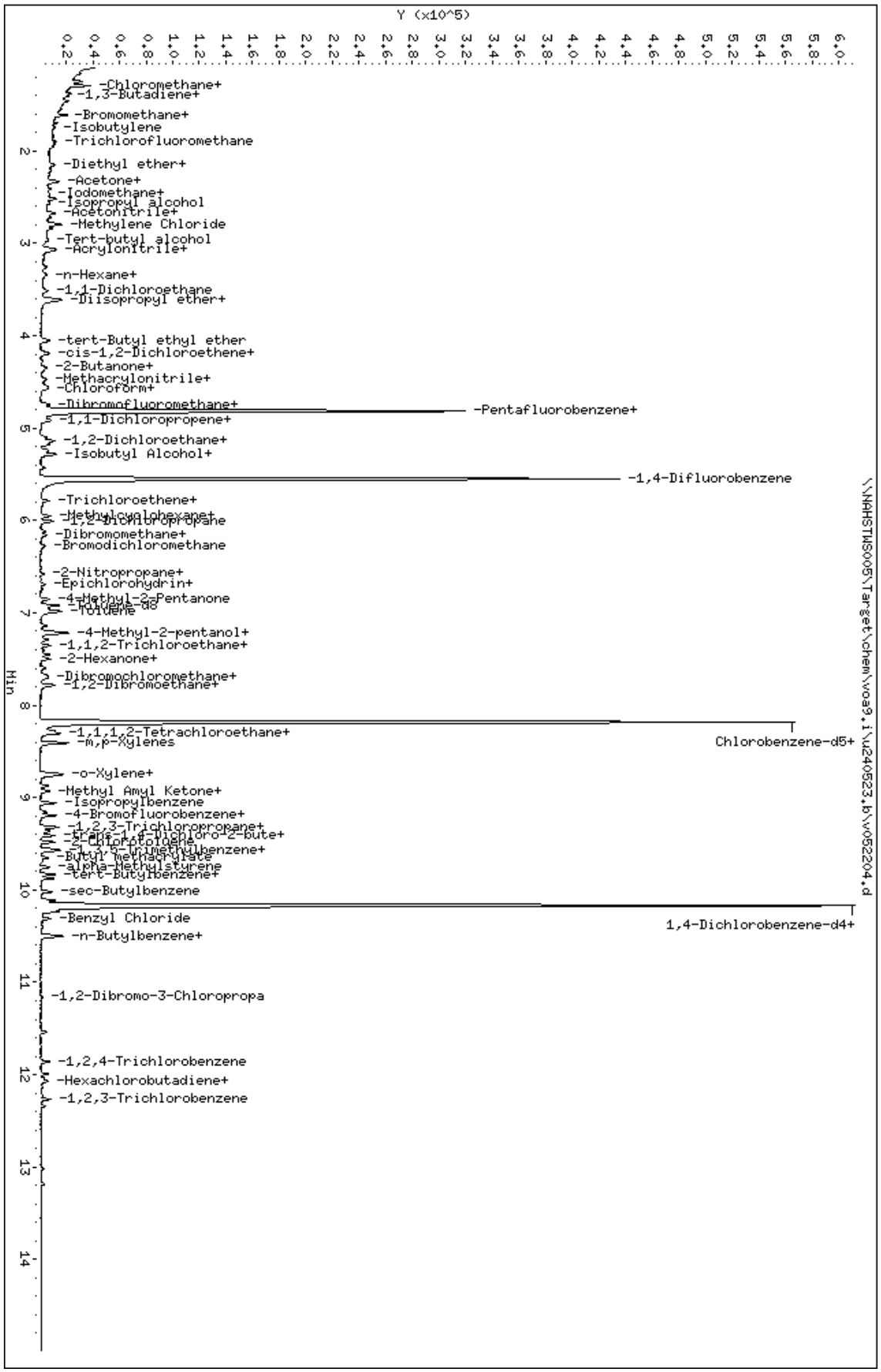
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	4730	1.00000	0.94(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	5606	1.00000	0.96(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	5647	1.00000	0.85(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	4967	1.00000	0.86(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	4451	1.00000	1.18(aM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4916	1.00000	1.16(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5397	1.00000	1.60(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	5689	1.00000	1.01(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	4478	1.00000	1.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	232	1.00000	0.85(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	2608	1.00000	1.09(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	961	1.00000	0.91(a)
92	Naphthalene	128	12.069	12.069	(1.187)	4637	1.00000	0.91(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	2359	1.00000	1.05(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	3162	1.00000	1.38(a)
138	Freon TF	101	2.330	2.330	(0.484)	2031	1.00000	0.82(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	6419	1.00000	1.54(aM)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1504	2.00000	3.46(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	4243	1.00000	1.04(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	700	20.0000	26.98(M)
132	n-Butanol	56	5.831	5.831	(1.211)	1043	20.0000	24.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1628	1.00000	0.90(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	1531	1.00000	1.20(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	3418	20.0000	25.08
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	2808	20.0000	25.56(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	1088	20.0000	20.11
156	Diisopropyl ether	45	3.619	3.619	(0.752)	7158	1.00000	1.19(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.068)	3200	1.00000	0.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	3766	1.00000	1.07(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	10054	1.00000	1.21(aM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	5825	1.00000	1.07(a)
167	Ethanol	45	2.082	2.082	(0.433)	619	20.0000	27.61(M)
172	tert-Butyl formate	59	5.243	5.243	(1.089)	3423	2.00000	2.59(aM)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	5298	20.0000	25.99(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	5854	1.00000	1.15(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	5932	1.00000	1.16(a)
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	3423	20.0000	26.07
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	9894	20.0000	19.48
140	1,3-Butadiene	54	1.400	1.400	(0.291)	725	1.00000	0.80(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	539	4.00000	4.36(aM)
M 94	1,2-Dichloroethylene (total)	96				4192	2.00000	(a)
130	Ethyl Acetate	43	4.272	4.272	(0.887)	2292	1.00000	1.02(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	2622	1.00000	1.19(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	3308	1.00000	1.04(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2342	20.0000	25.43(a)
185	Isoprene	39	2.154	2.154	(0.447)	277	1.00000	0.71(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	6126	1.00000	1.07(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1628	20.0000	18.17
194	Acetaldehyde	44	1.460	1.460	(0.303)	1439	4.00000	4.65(aM)
195	Methyl Amyl Ketone	43	8.871	8.871	(1.084)	4122	1.00000	1.06(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	751	1.00000	0.77(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	4243	1.00000	1.05(aM)

163 Butyl methacrylate	41	9.651	9.651 (0.949)	2905	1.00000	1.34(a)
159 Propylene oxide	43	2.199	2.199 (0.457)	941	2.00000	5.43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1428	1.00000	0.92(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.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

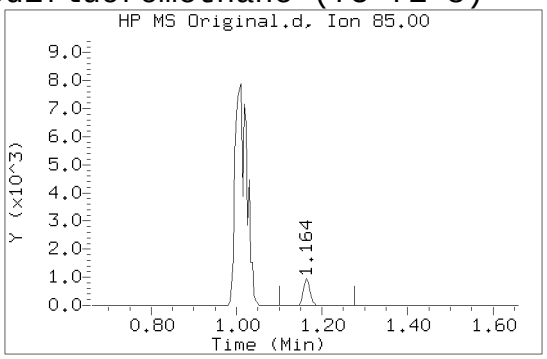
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InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

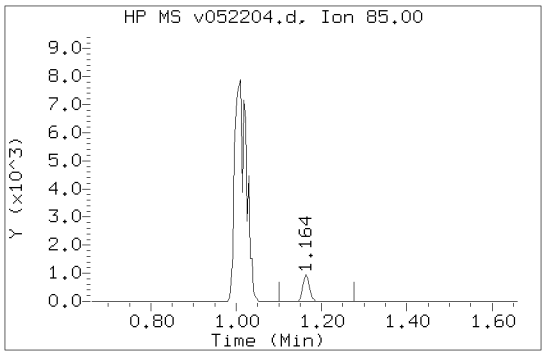
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23-May-2024
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firat
tastan



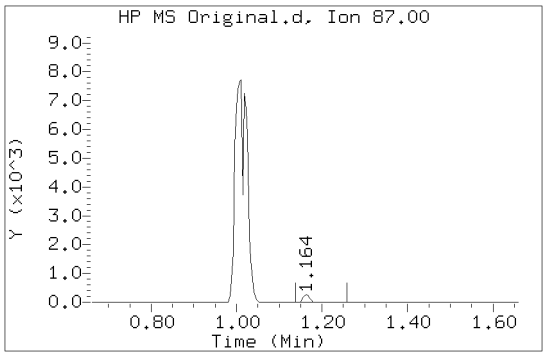
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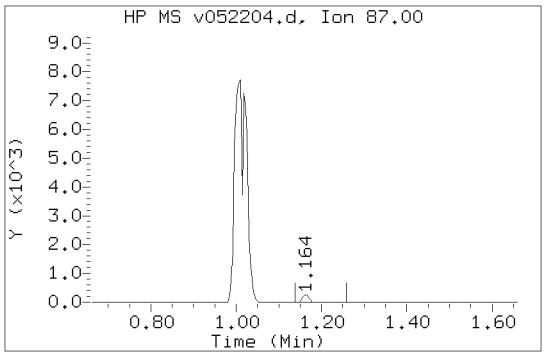
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AFTER

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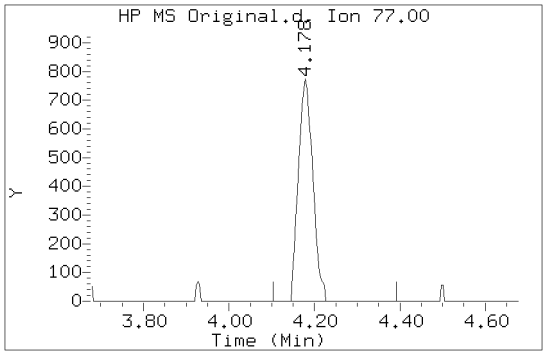


2,2-Dichloropropane (594-20-7)

Reason Code:

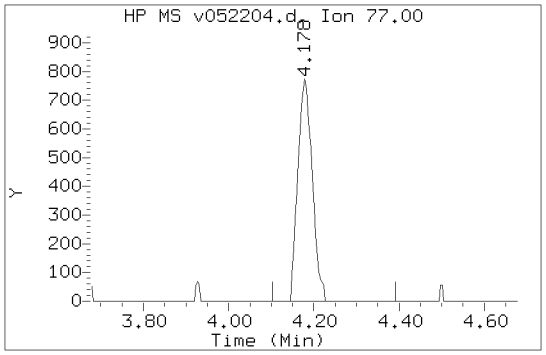
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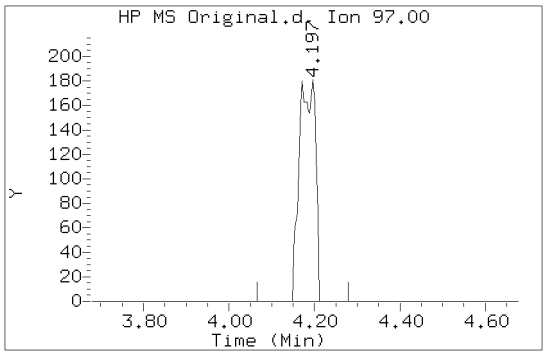
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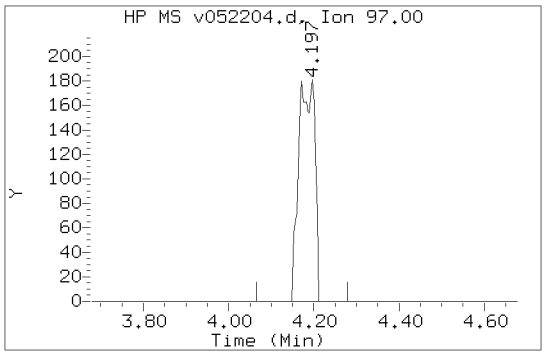
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AFTER

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23-May-2024
09:51
firat
tastan



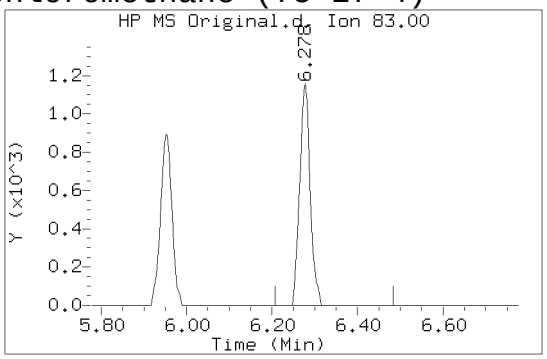
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

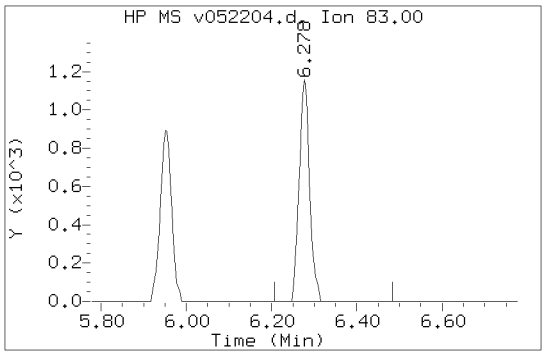
BEFORE

MASS
83
AREA
2013
HEIGHT
1158
23-May-2024
09:51
firat
tastan



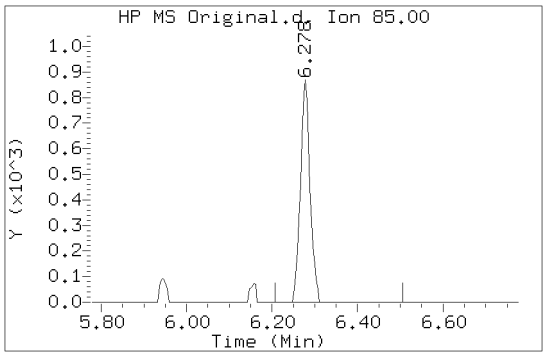
AFTER

MASS
83
AREA
2013
HEIGHT
1158
23-May-2024
09:51
firat
tastan



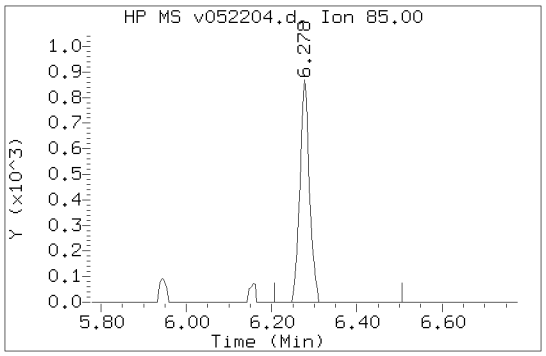
BEFORE

MASS
85
AREA
1383
HEIGHT
869
23-May-2024
09:51
firat
tastan



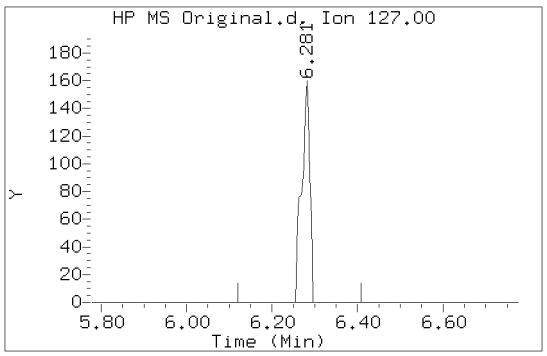
AFTER

MASS
85
AREA
1383
HEIGHT
869
23-May-2024
09:51
firat
tastan



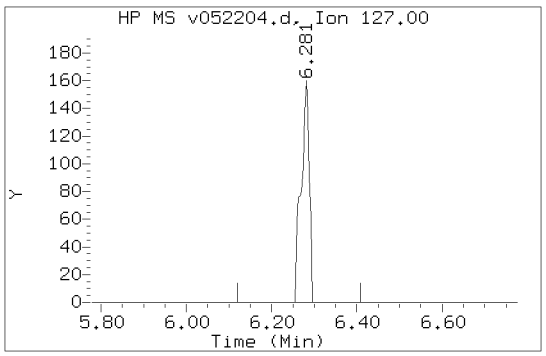
BEFORE

MASS
127
AREA
218
HEIGHT
160
23-May-2024
09:51
firat
tastan



AFTER

MASS
127
AREA
218
HEIGHT
160
23-May-2024
09:51
firat
tastan

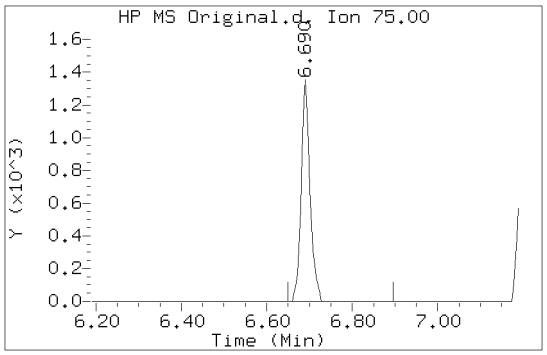


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

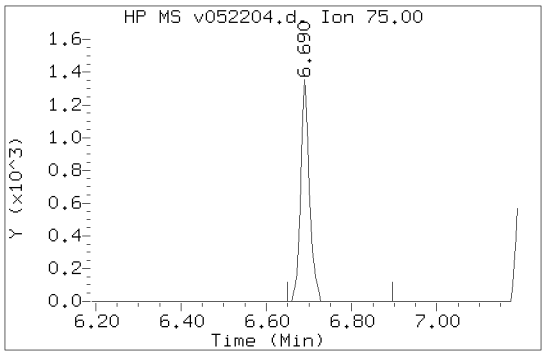
BEFORE

MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



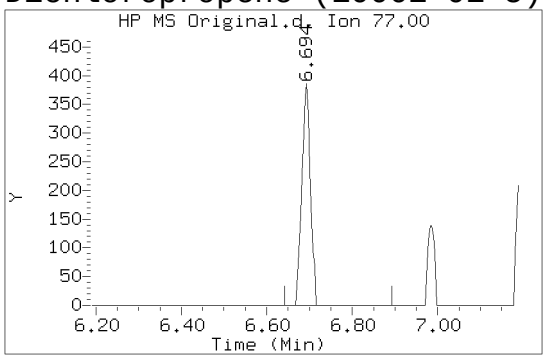
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

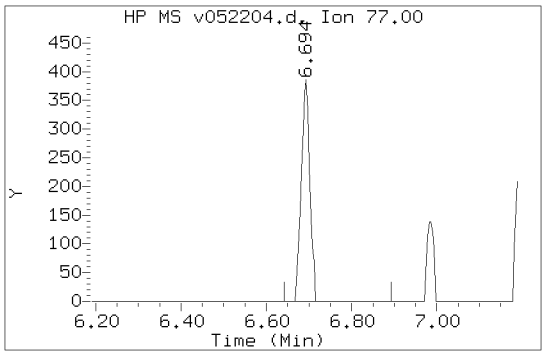
BEFORE

MASS
77
AREA
552
HEIGHT
386
23-May-2024
09:51
firat
tastan



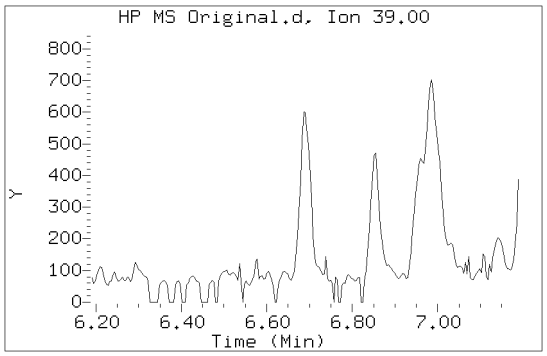
AFTER

MASS
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HEIGHT
386
23-May-2024
09:51
firat
tastan



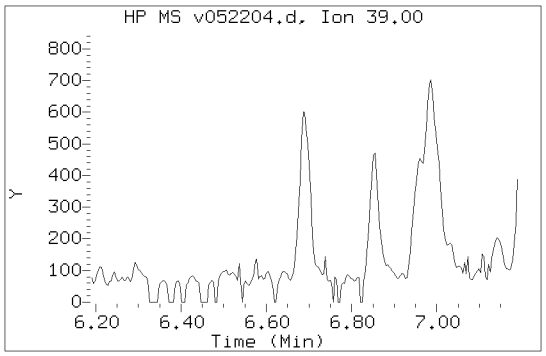
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

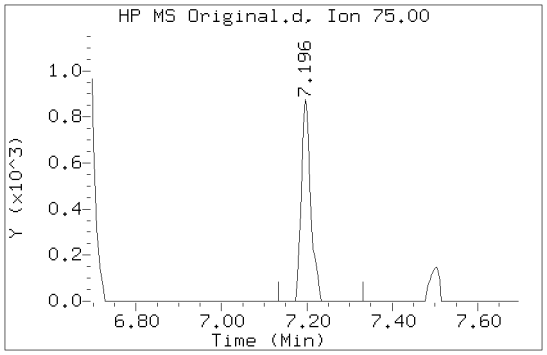


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

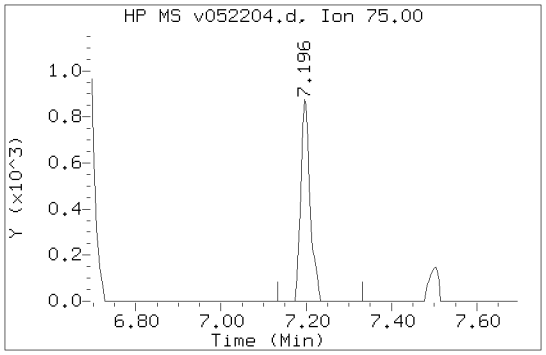
BEFORE

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



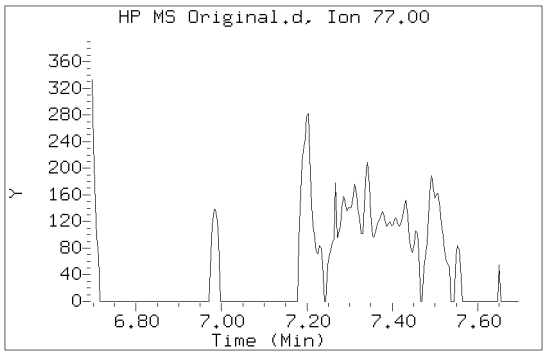
AFTER

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



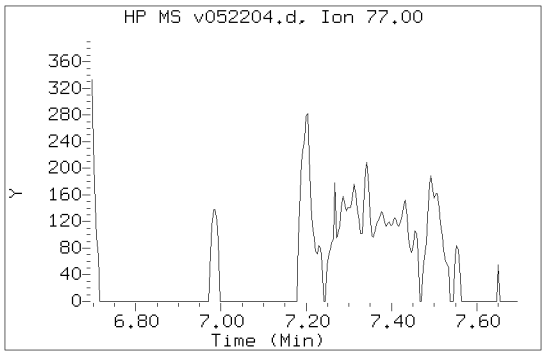
BEFORE

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



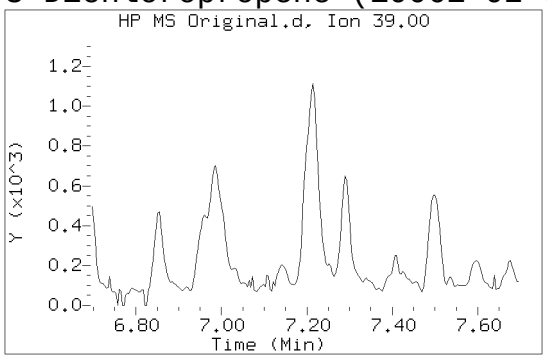
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

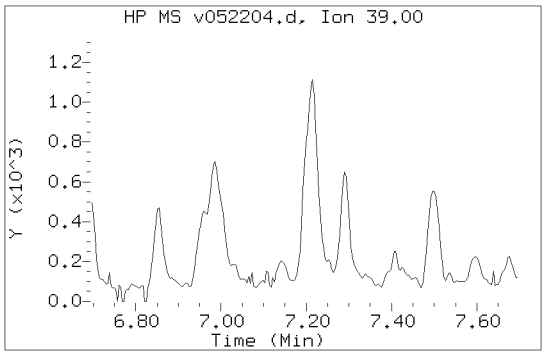
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

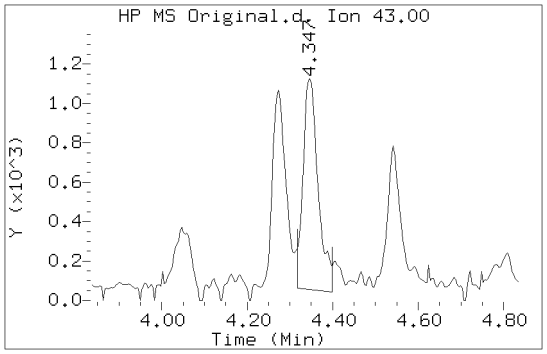


Vinyl Acetate (108-05-4)

Reason Code:

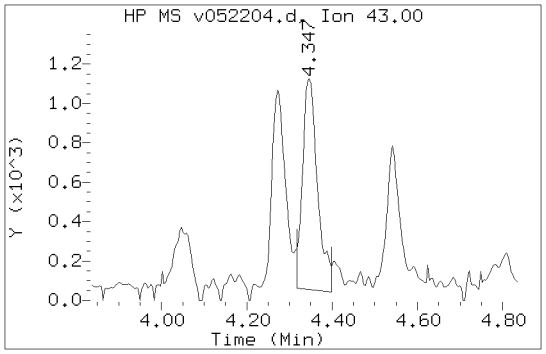
BEFORE

MASS
43
AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



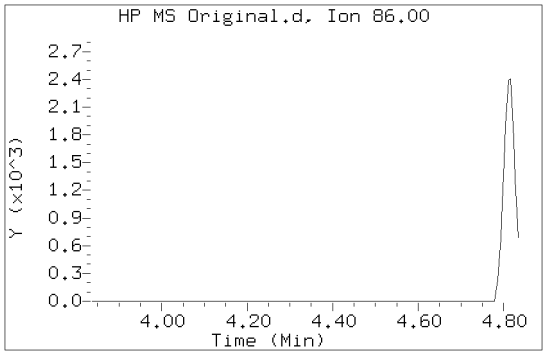
AFTER

MASS
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AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



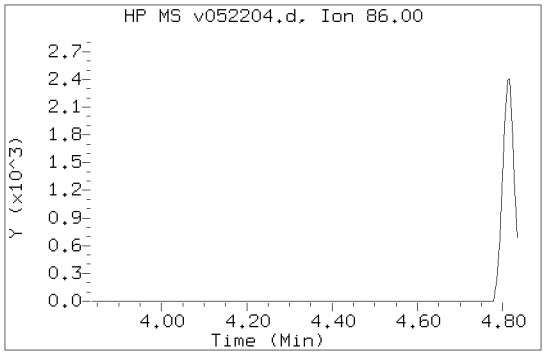
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

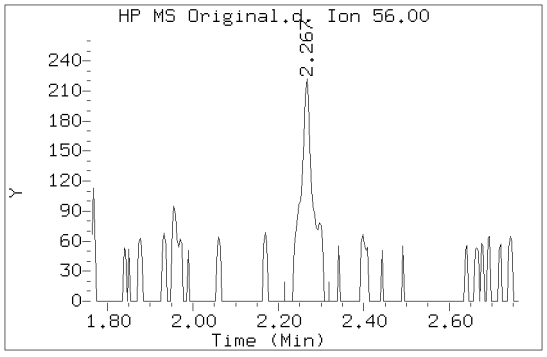


Acrolein (107-02-8)

Reason Code:

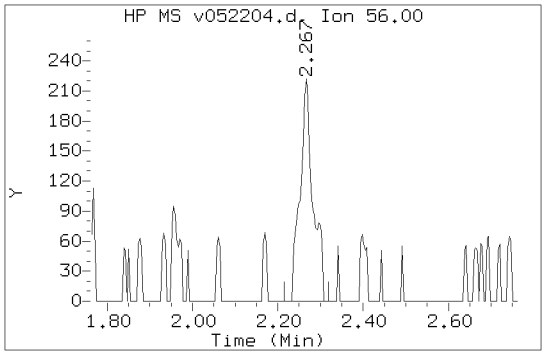
BEFORE

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



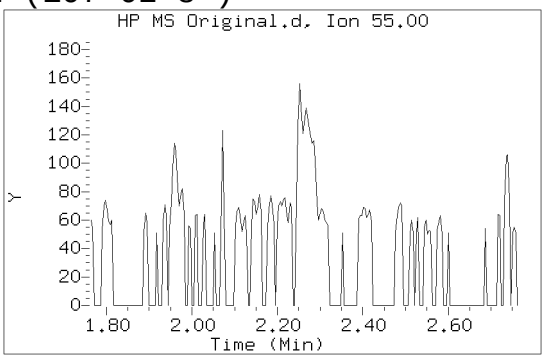
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

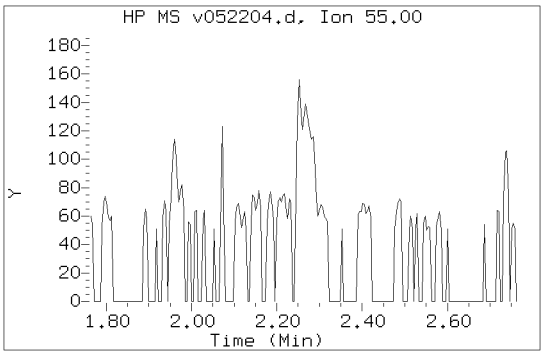
BEFORE

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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

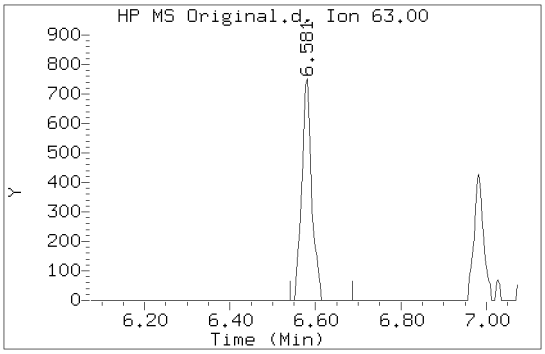


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

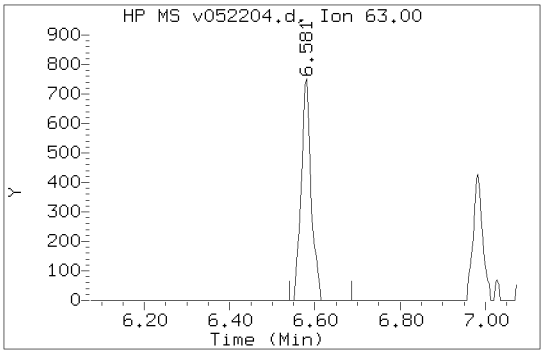
BEFORE

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AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



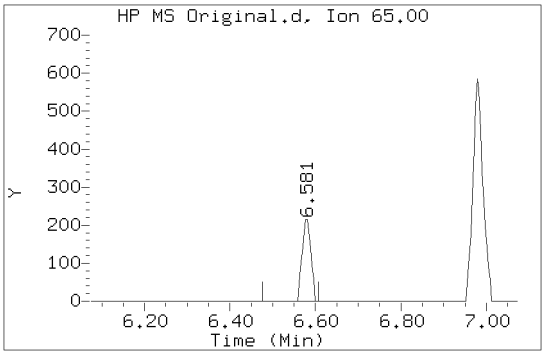
AFTER

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AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



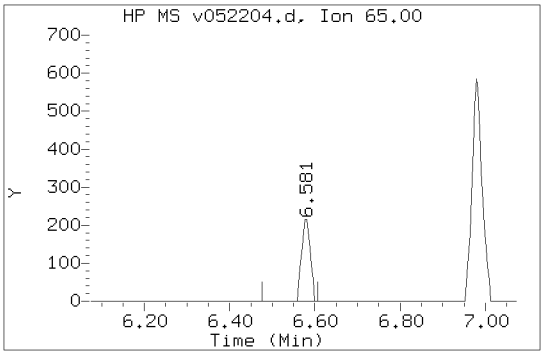
BEFORE

MASS
65
AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



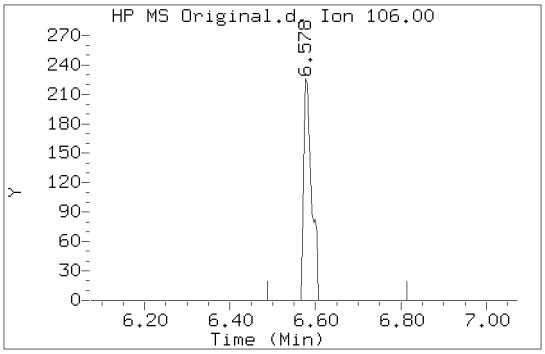
AFTER

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AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



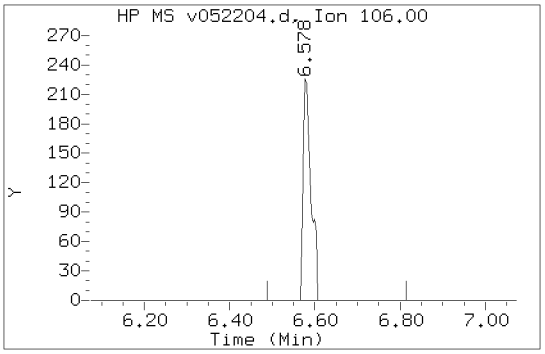
BEFORE

MASS
106
AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



AFTER

MASS
106
AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



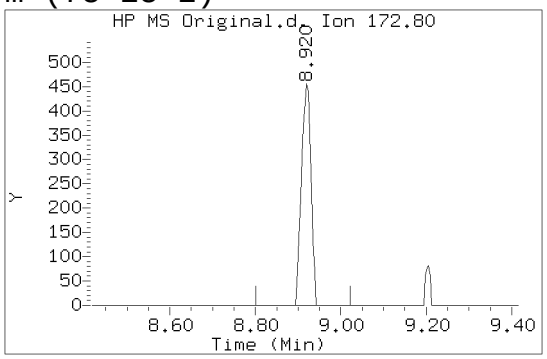
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

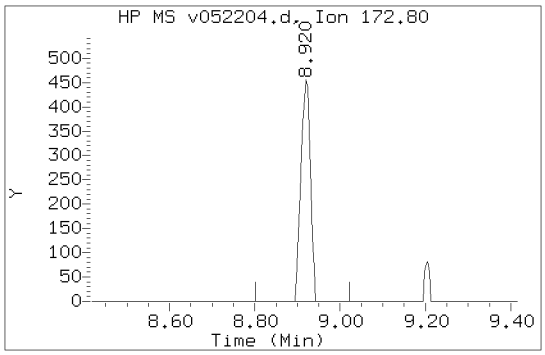
BEFORE

MASS
172.8
AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



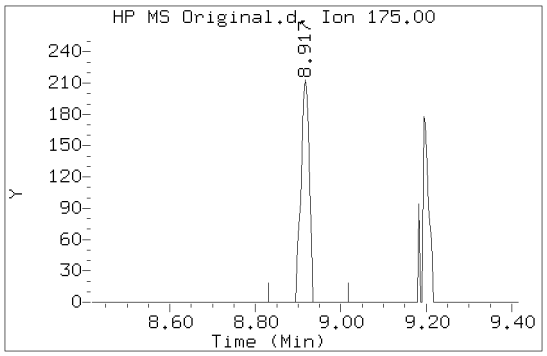
AFTER

MASS
172.8
AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



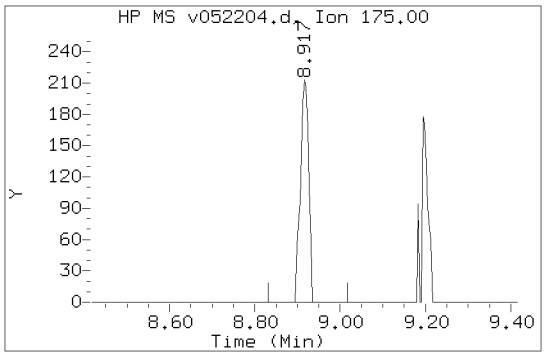
BEFORE

MASS
175
AREA
295
HEIGHT
213
23-May-2024
09:51
firat
tastan



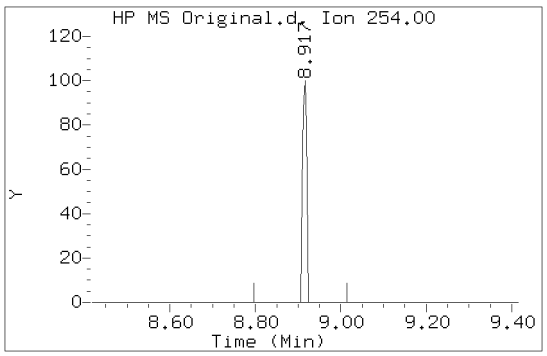
AFTER

MASS
175
AREA
295
HEIGHT
213
23-May-2024
09:51
firat
tastan



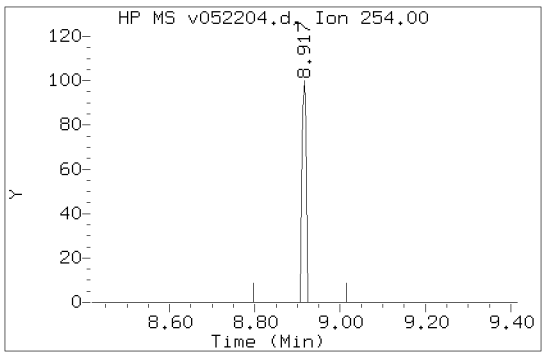
BEFORE

MASS
254
AREA
71
HEIGHT
100
23-May-2024
09:51
firat
tastan



AFTER

MASS
254
AREA
71
HEIGHT
100
23-May-2024
09:51
firat
tastan

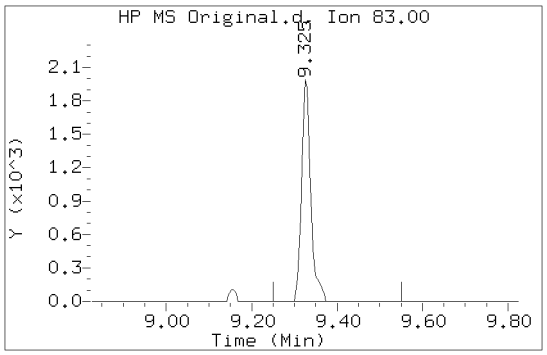


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

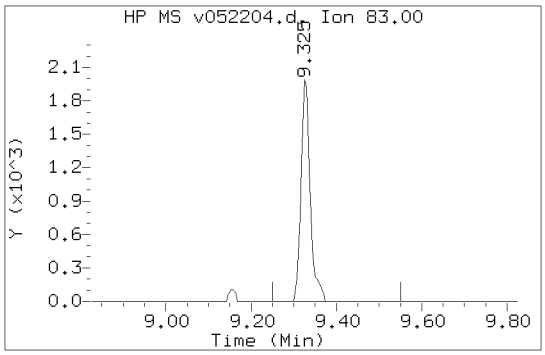
BEFORE

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AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



AFTER

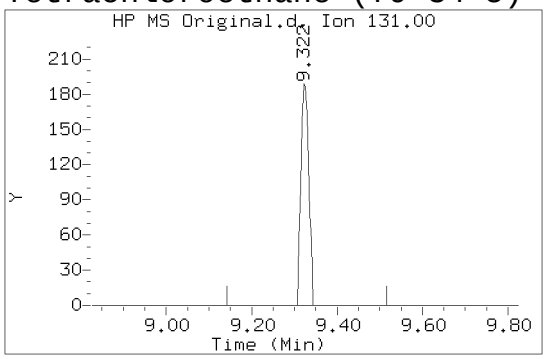
MASS
83
AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



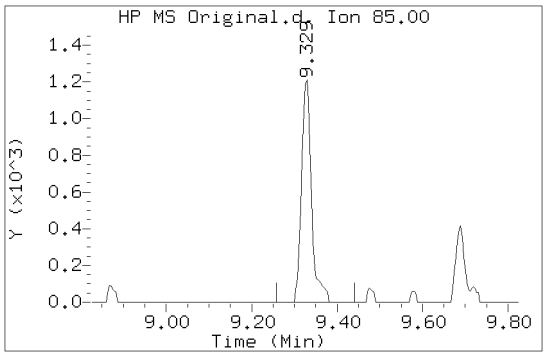
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

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

BEFORE
MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
tastan

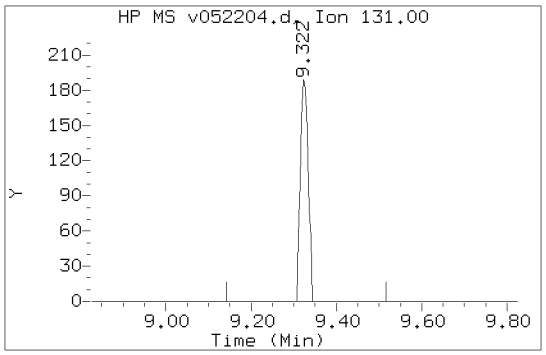


BEFORE
MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan

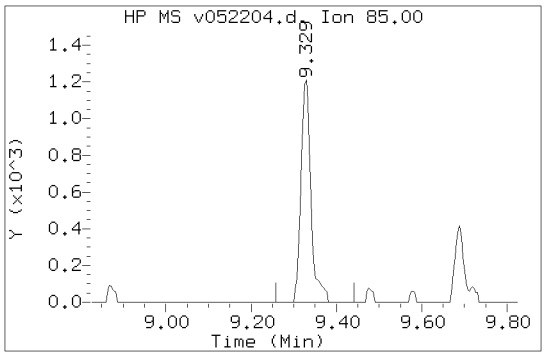


Reason Code:

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MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
tastan

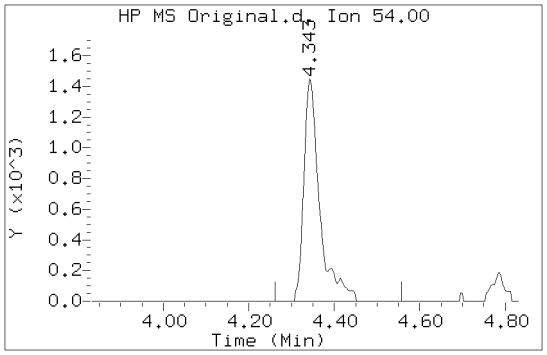


AFTER
MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan

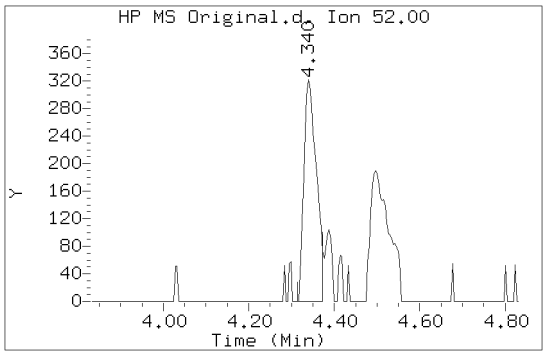


Propionitrile (107-12-0)

BEFORE
MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan

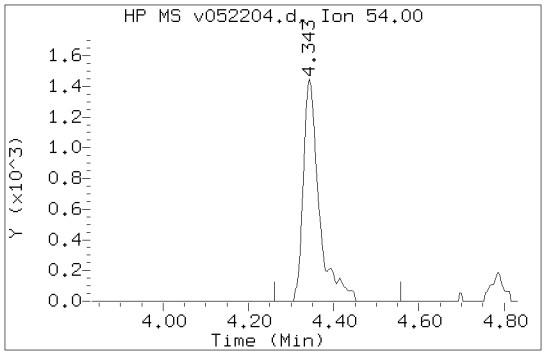


BEFORE
MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan

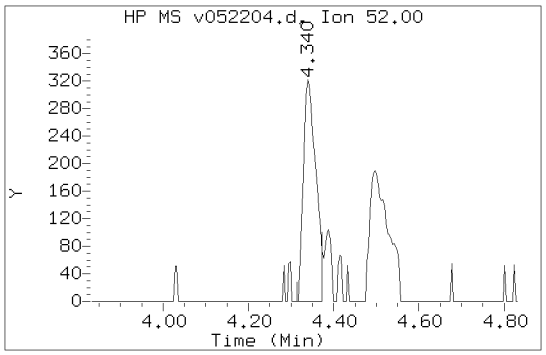


Reason Code:

AFTER
MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan



AFTER
MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



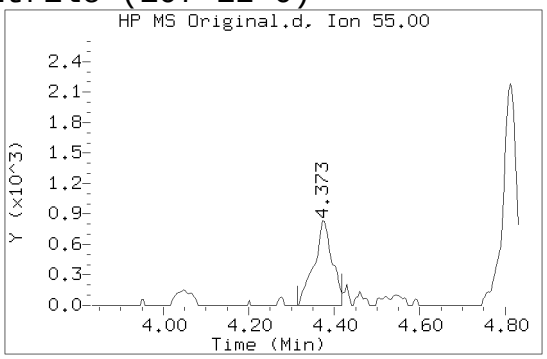
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

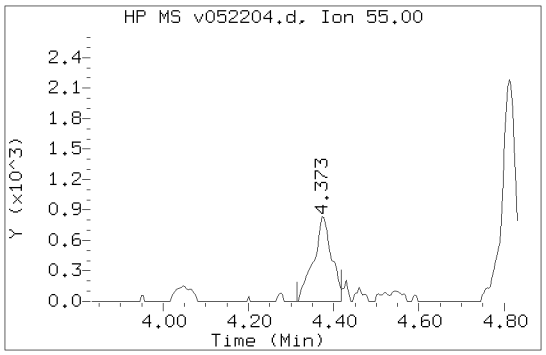
BEFORE

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan

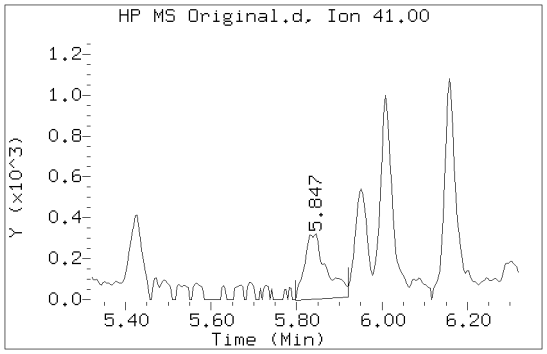


Methyl Methacrylate (80-62-6)

Reason Code:

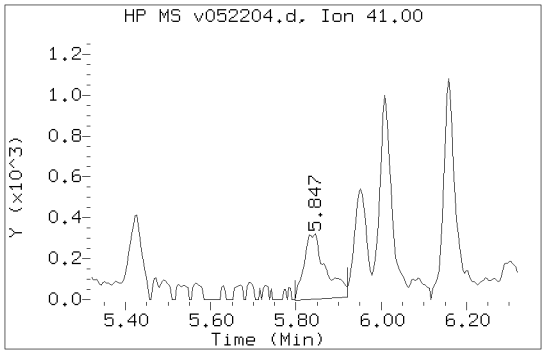
BEFORE

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



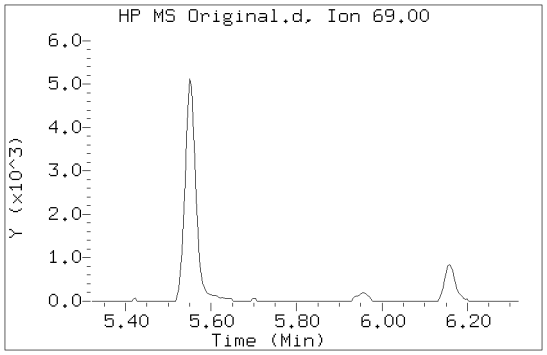
AFTER

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



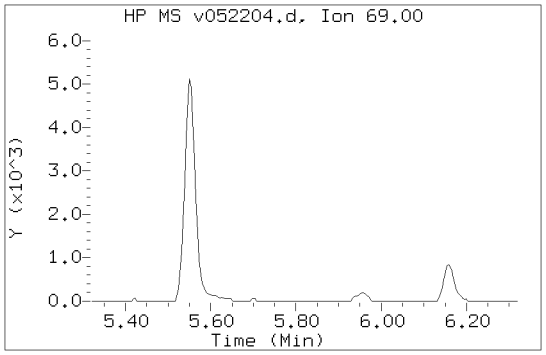
BEFORE

MASS
69
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



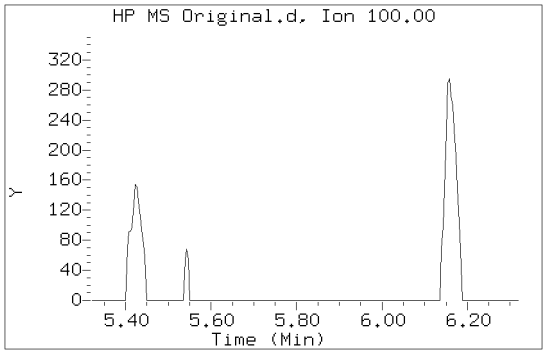
AFTER

MASS
69
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



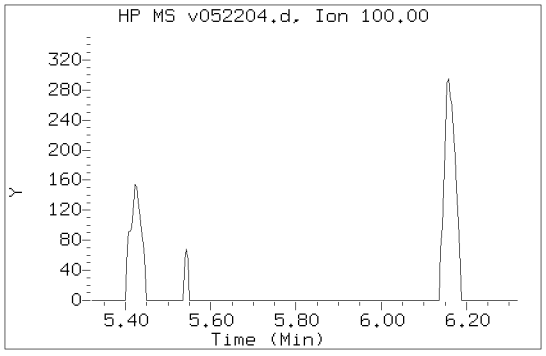
BEFORE

MASS
100
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
100
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



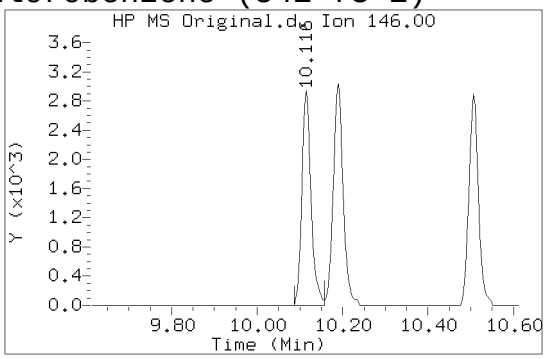
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

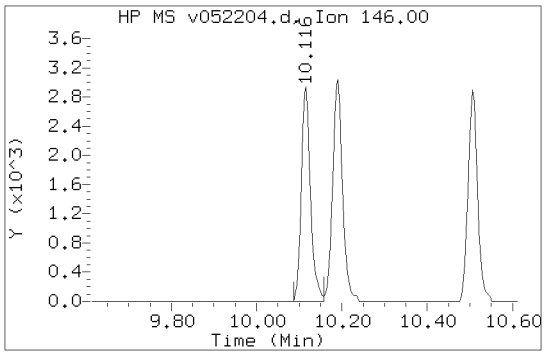
BEFORE

MASS
146
AREA
4451
HEIGHT
2942
23-May-2024
09:51
firat
tastan



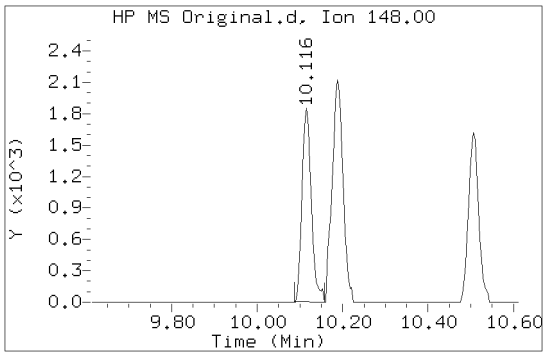
AFTER

MASS
146
AREA
4451
HEIGHT
2942
23-May-2024
09:51
firat
tastan



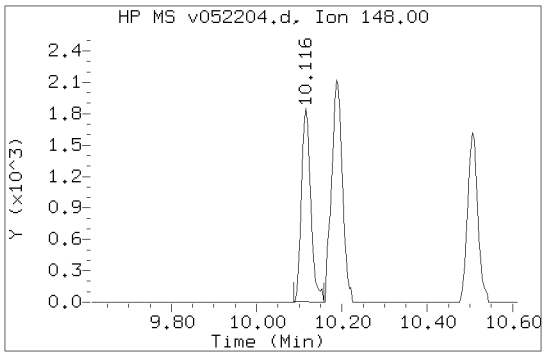
BEFORE

MASS
148
AREA
2855
HEIGHT
1849
23-May-2024
09:51
firat
tastan



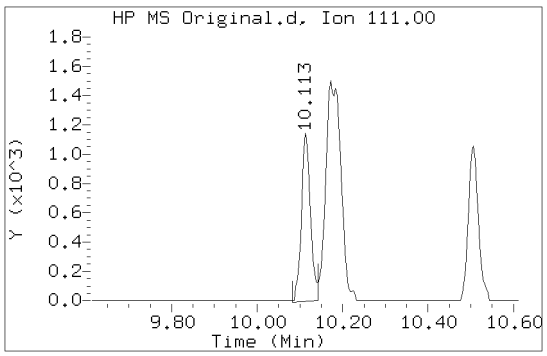
AFTER

MASS
148
AREA
2855
HEIGHT
1849
23-May-2024
09:51
firat
tastan



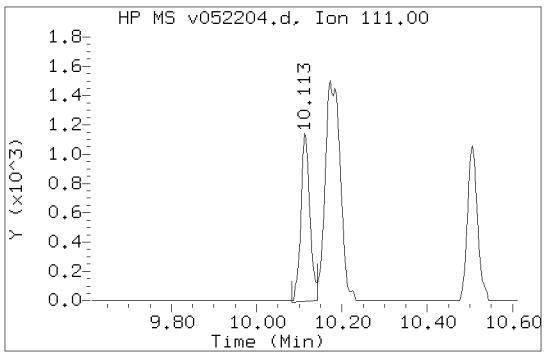
BEFORE

MASS
111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan

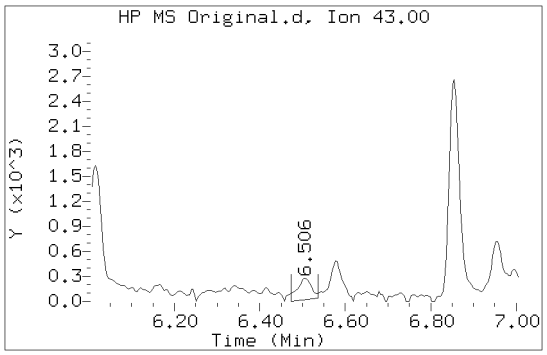


2-Nitropropane (79-46-9)

Reason Code:

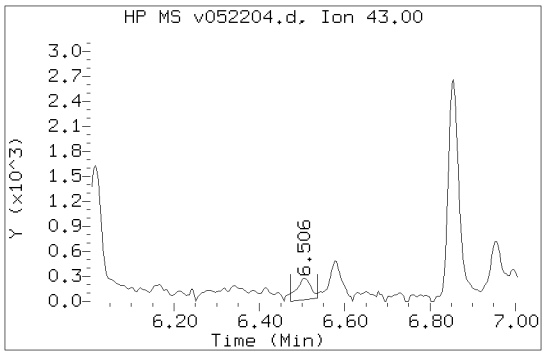
BEFORE

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



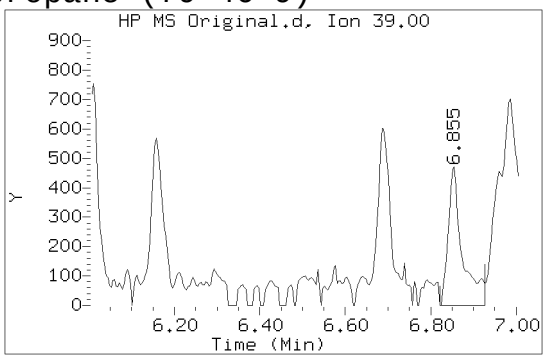
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

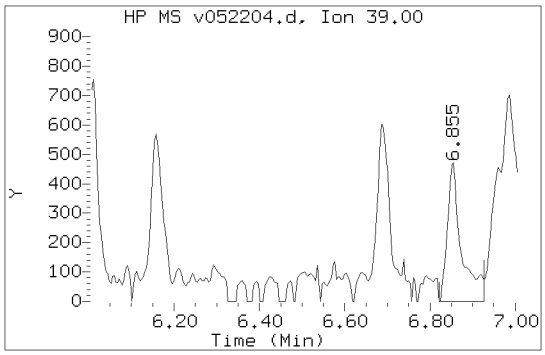
BEFORE

MASS
39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan

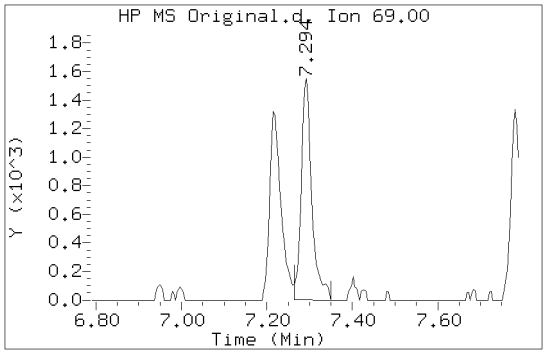


Ethyl Methacrylate (97-63-2)

Reason Code:

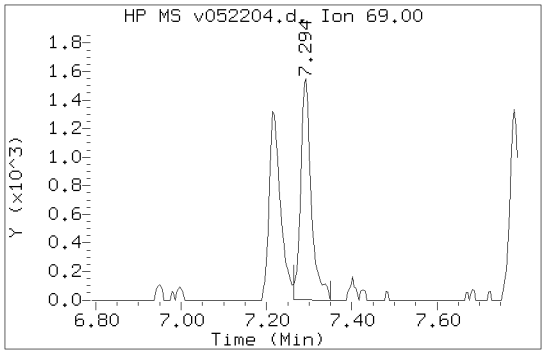
BEFORE

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



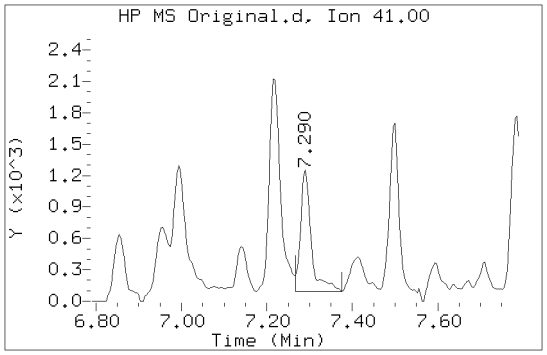
AFTER

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



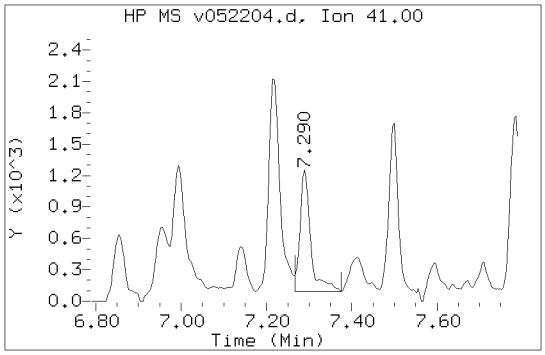
BEFORE

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan

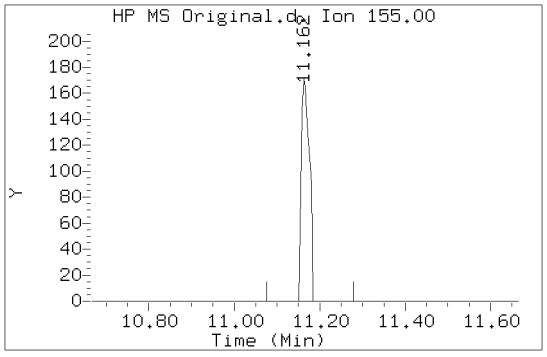


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

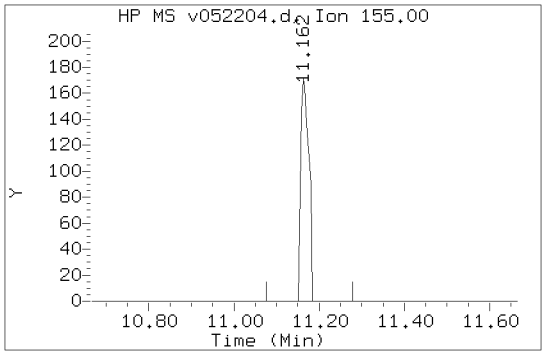
BEFORE

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



AFTER

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



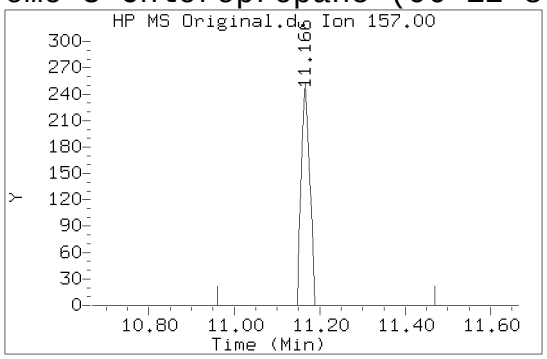
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

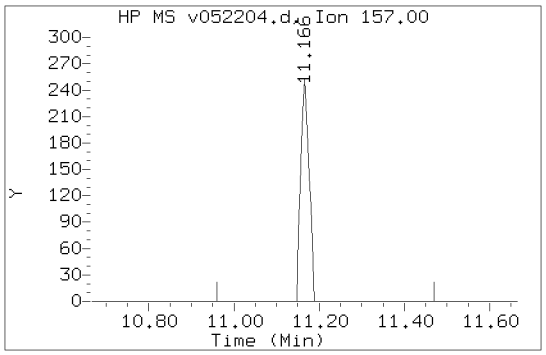
BEFORE

MASS
157
AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



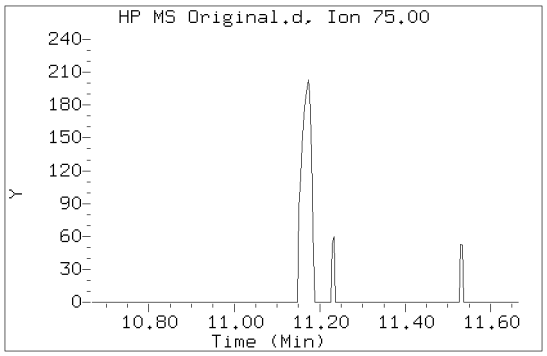
AFTER

MASS
157
AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



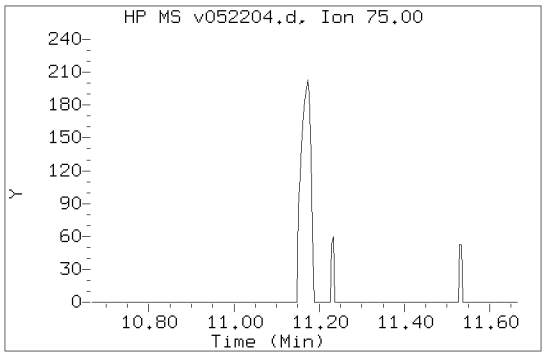
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

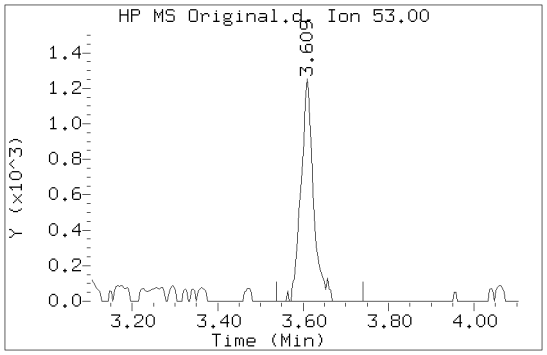


Chloroprene (126-99-8)

Reason Code:

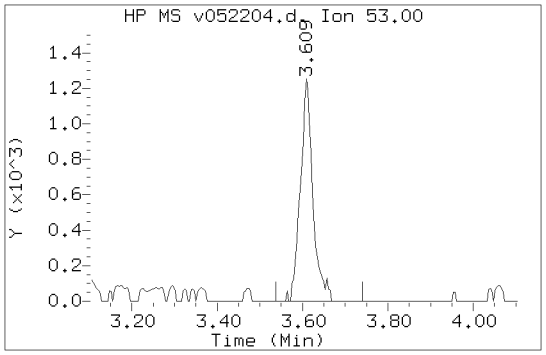
BEFORE

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



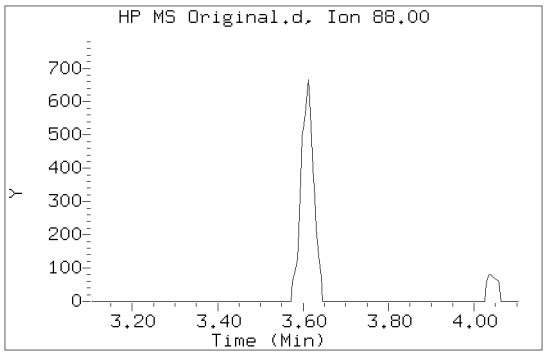
AFTER

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



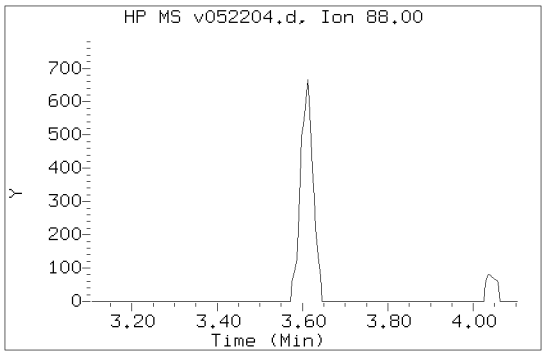
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



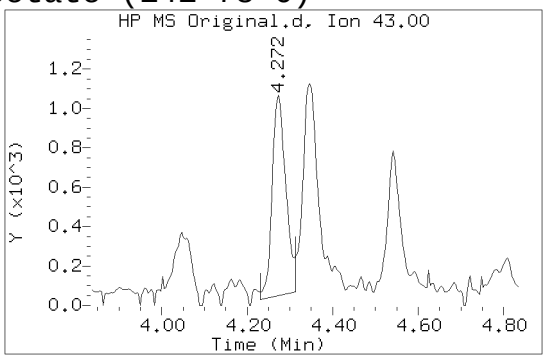
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

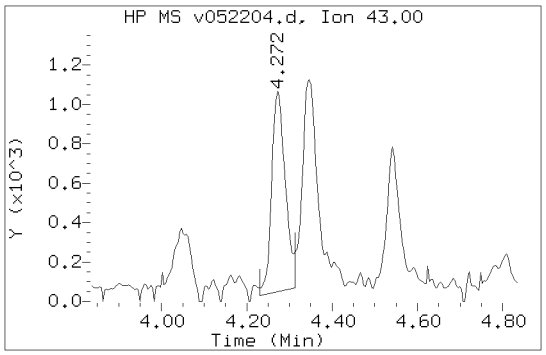
BEFORE

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



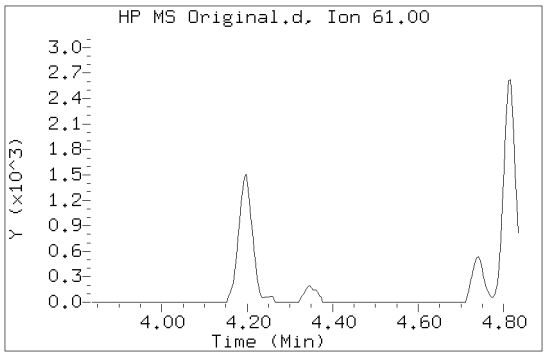
AFTER

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



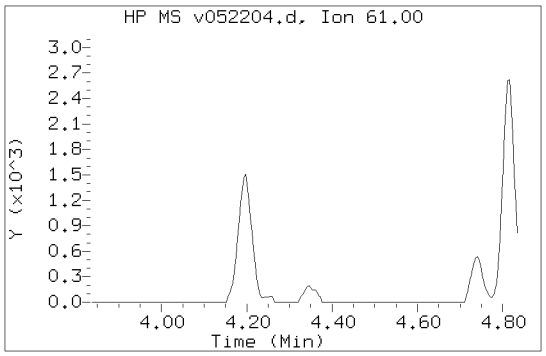
BEFORE

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



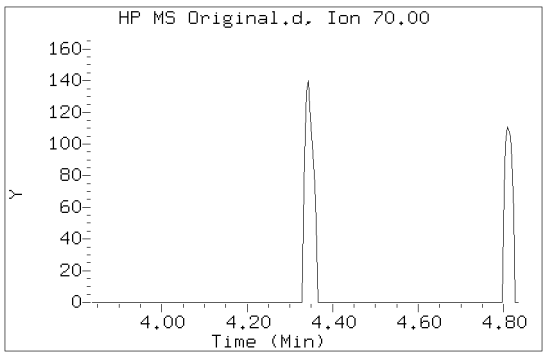
AFTER

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



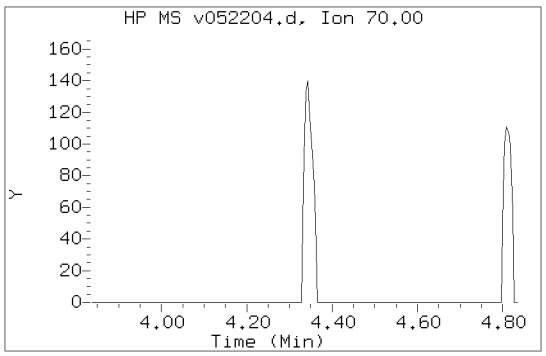
BEFORE

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

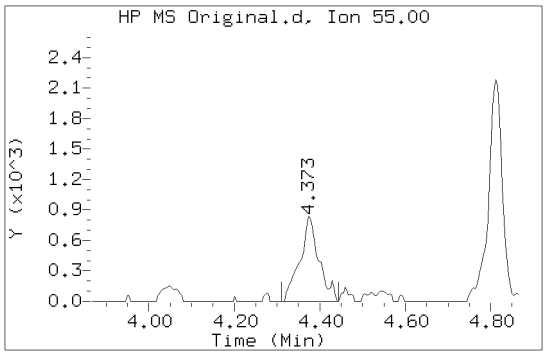


Methyl Acrylate (96-33-3)

Reason Code:

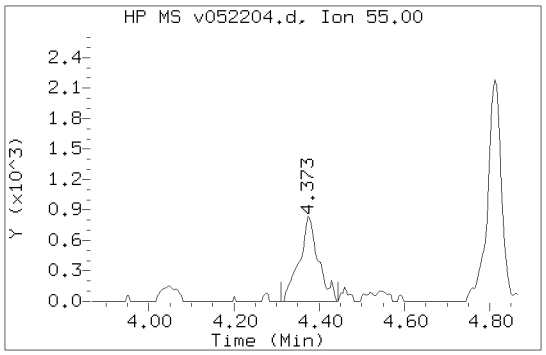
BEFORE

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



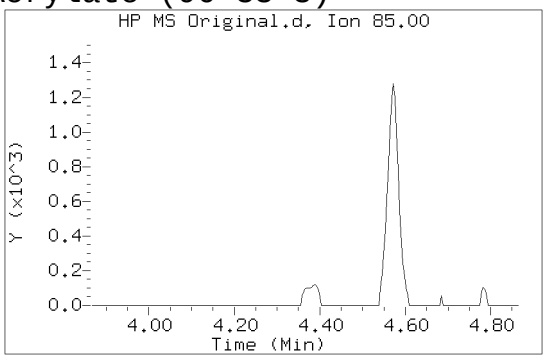
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

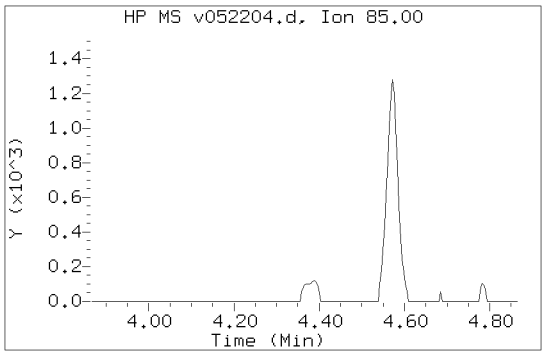
BEFORE

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

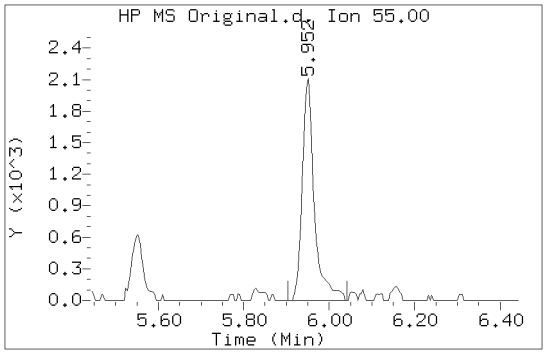


Ethyl Acrylate (140-88-5)

Reason Code:

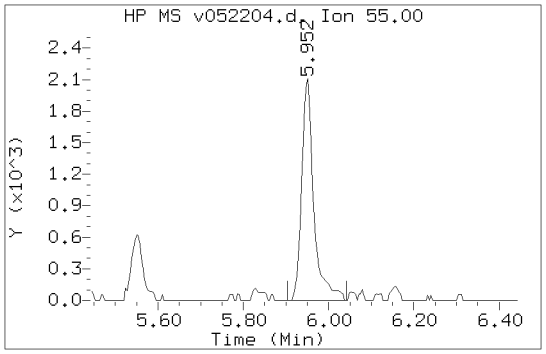
BEFORE

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



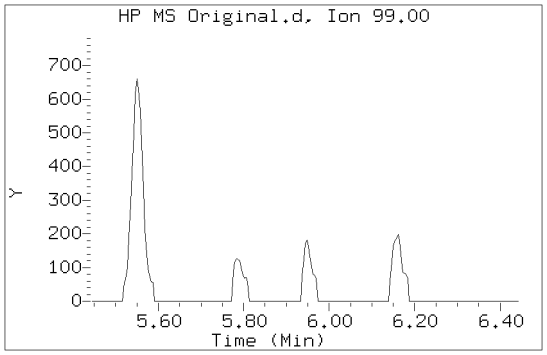
AFTER

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



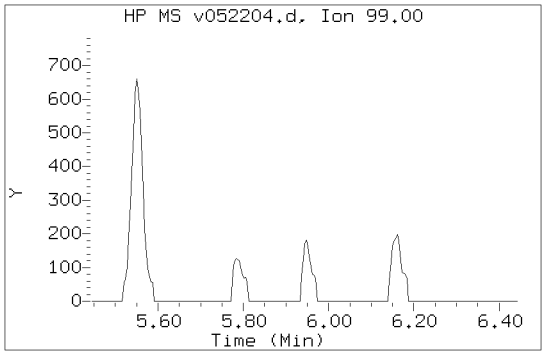
BEFORE

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

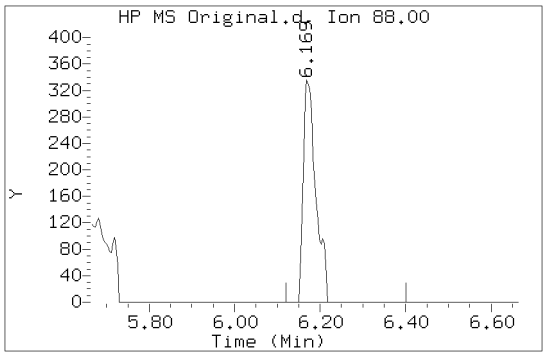


1,4-Dioxane ()

Reason Code:

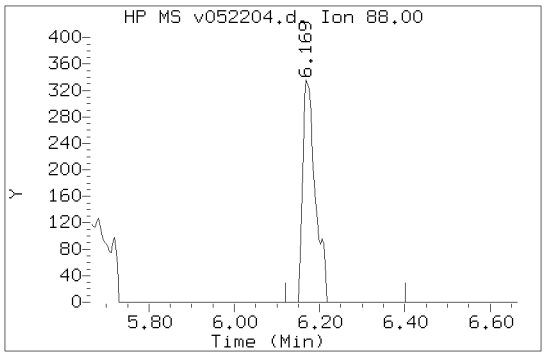
BEFORE

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



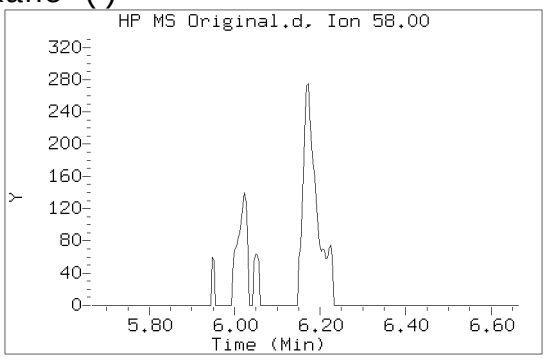
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

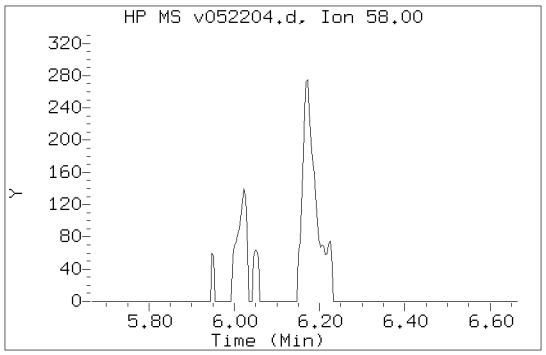
BEFORE

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

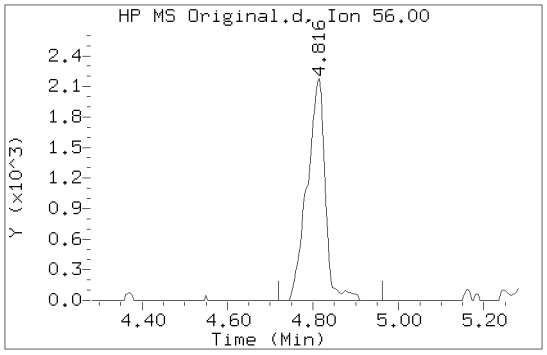


Cyclohexane (110-82-7)

Reason Code:

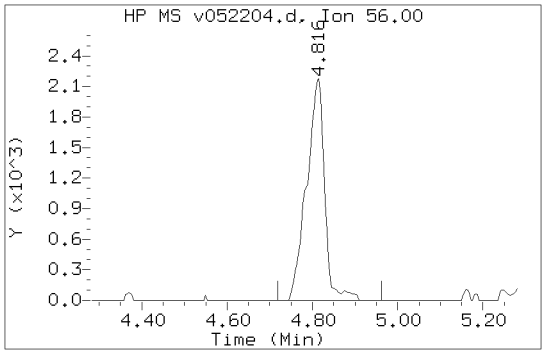
BEFORE

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



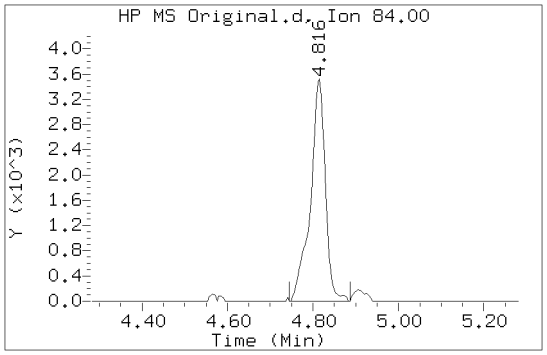
AFTER

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



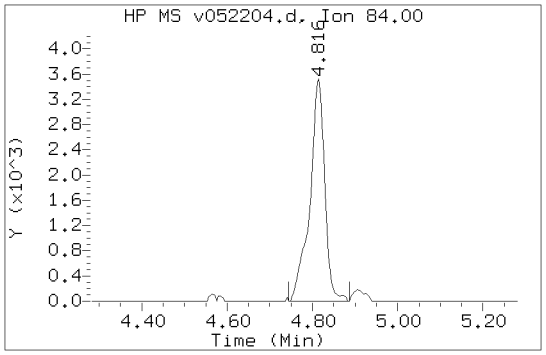
BEFORE

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



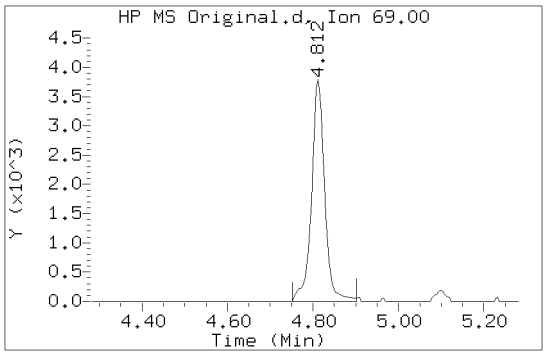
AFTER

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



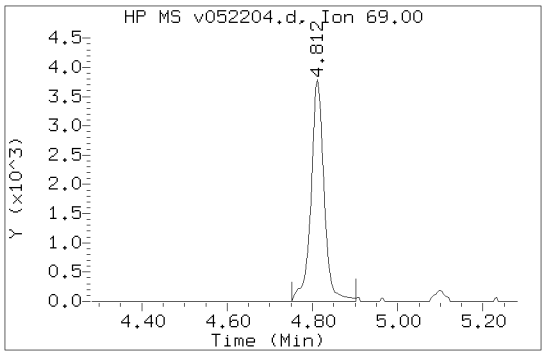
BEFORE

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan



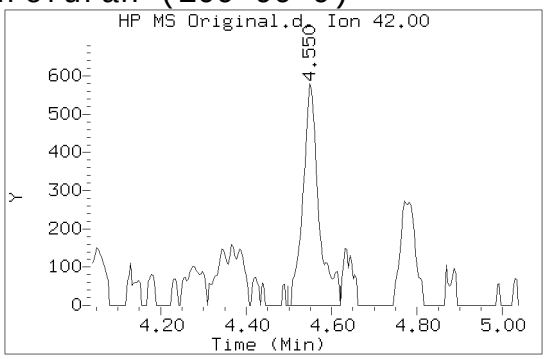
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

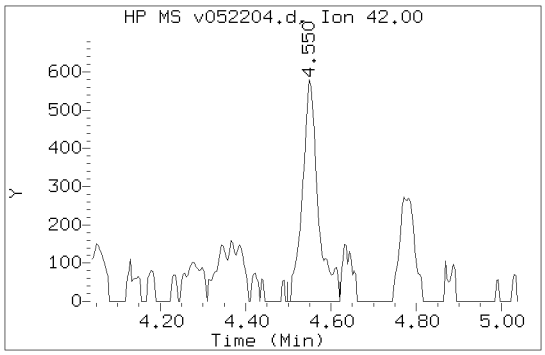
BEFORE

MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



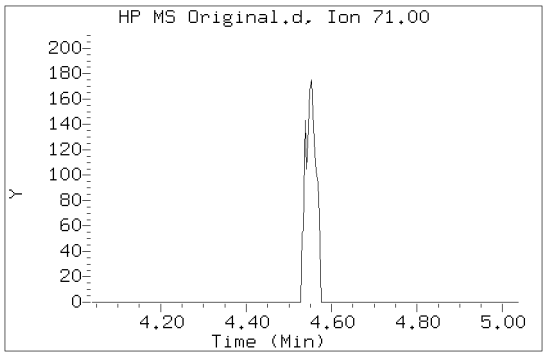
AFTER

MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



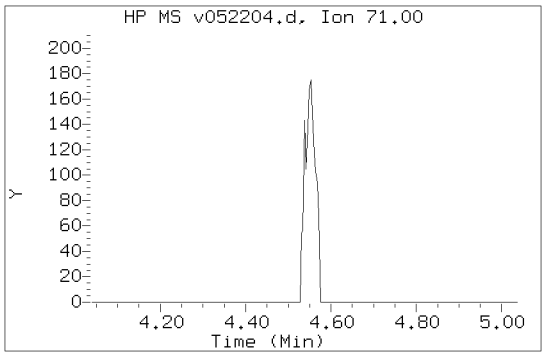
BEFORE

MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

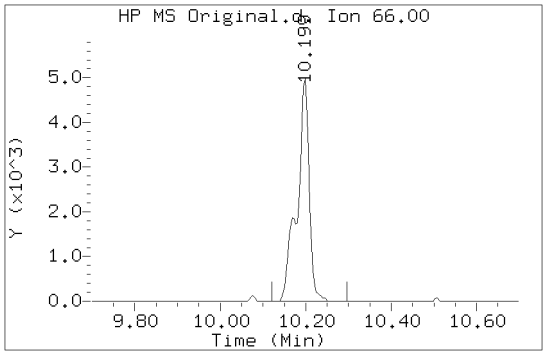


Dicyclopentadiene (77-73-6)

Reason Code:

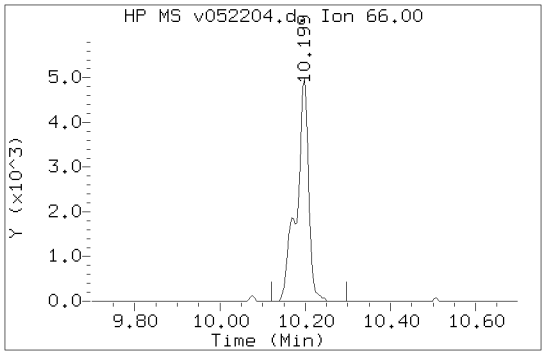
BEFORE

MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



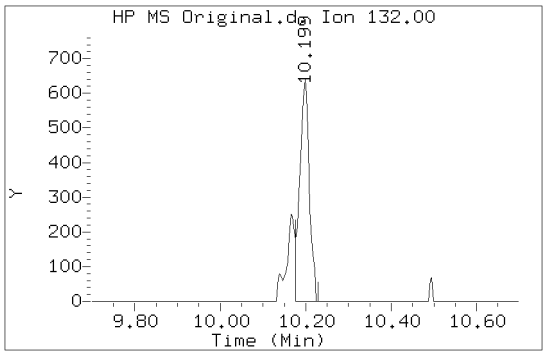
AFTER

MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



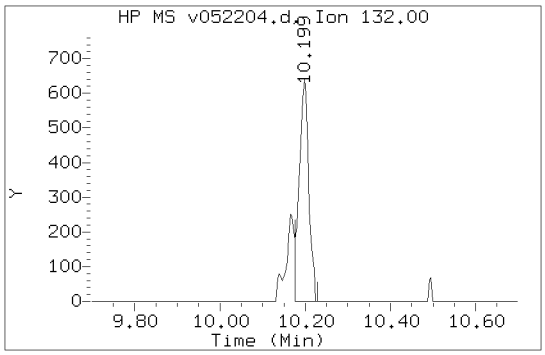
BEFORE

MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan



AFTER

MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan

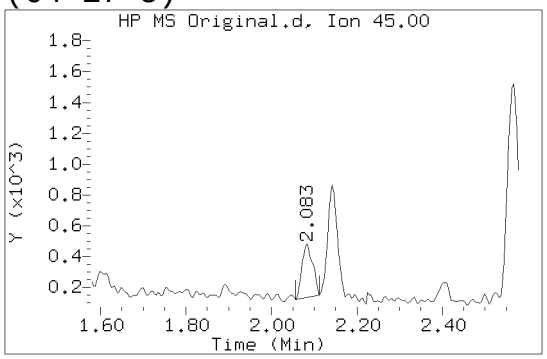


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

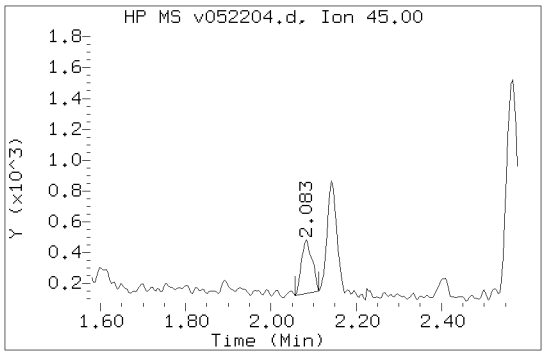
Ethanol (64-17-5)

Reason Code:

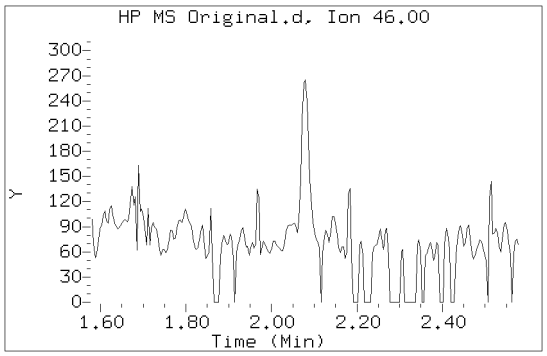
BEFORE
MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



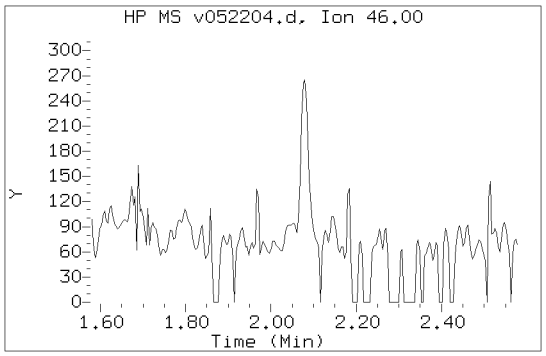
AFTER
MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



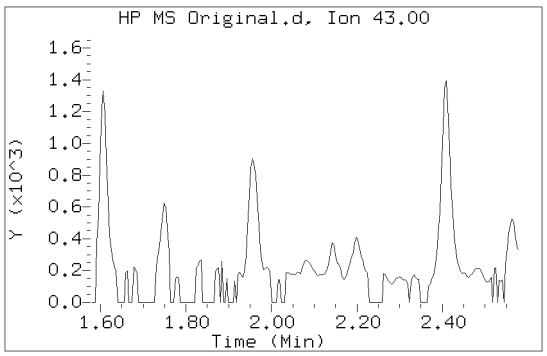
BEFORE
MASS
46
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



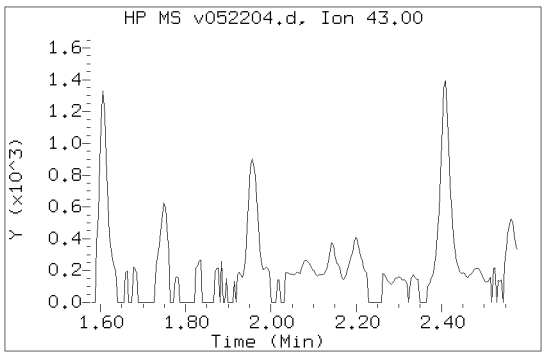
AFTER
MASS
46
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
43
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



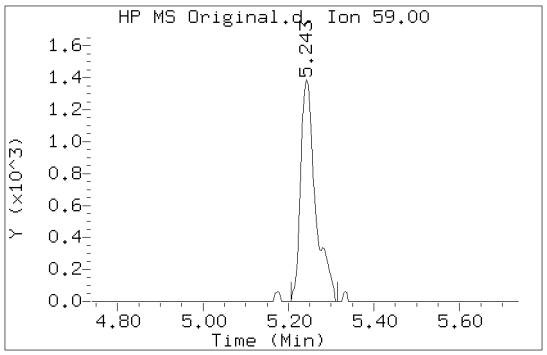
AFTER
MASS
43
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



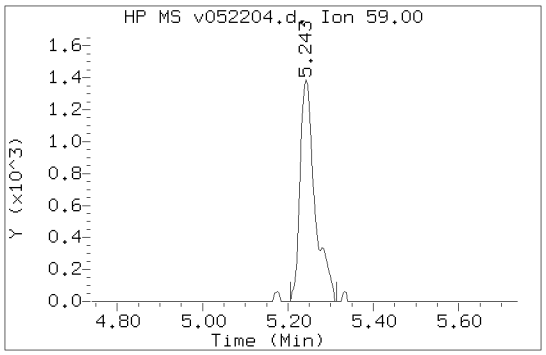
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
3423
HEIGHT
1388
23-May-2024
09:51
firat
tastan



AFTER
MASS
59
AREA
3423
HEIGHT
1388
23-May-2024
09:51
firat
tastan

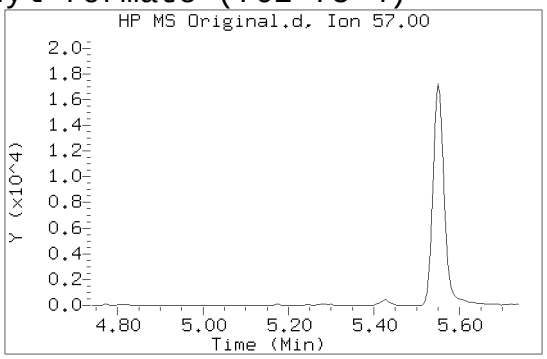


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

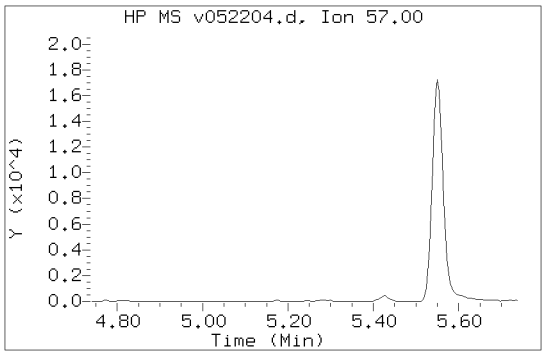
tert-Butyl formate (762-75-4)

Reason Code:

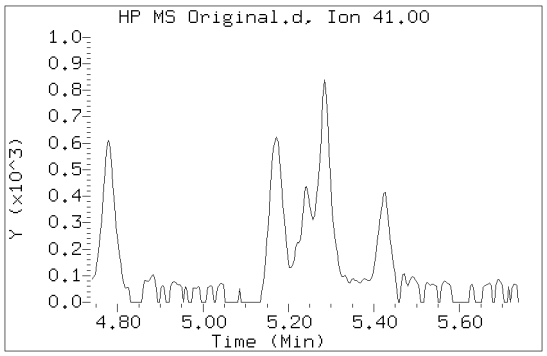
BEFORE
MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



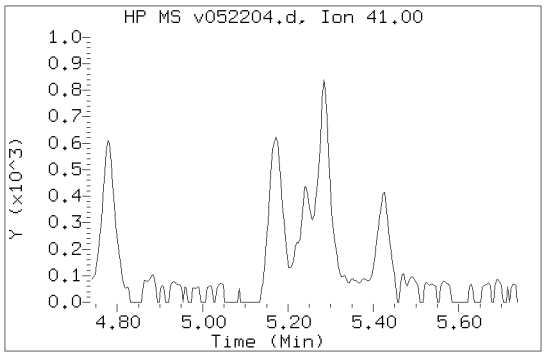
AFTER
MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



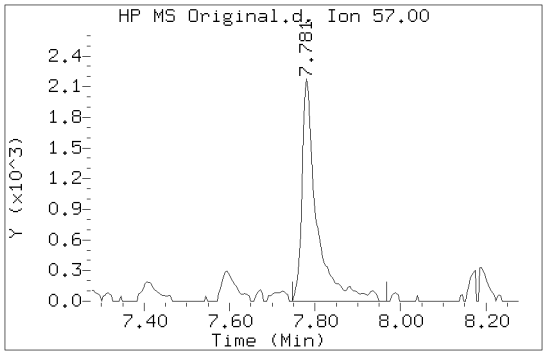
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41
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HEIGHT
0
23-May-2024
09:51
firat
tastan



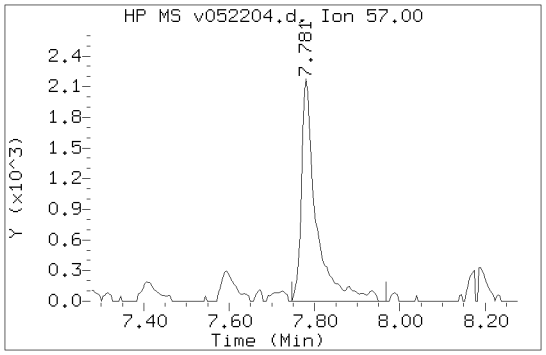
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

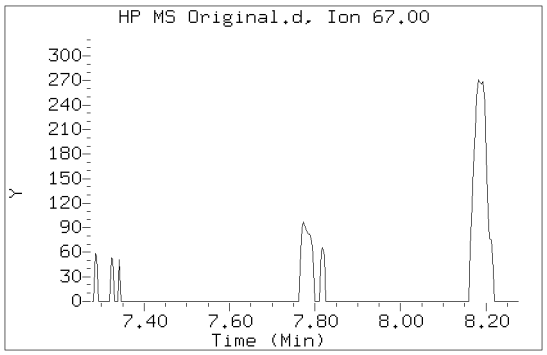
BEFORE
MASS
57
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HEIGHT
2176
23-May-2024
09:51
firat
tastan



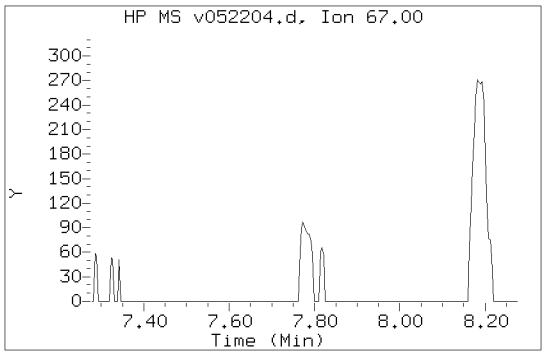
AFTER
MASS
57
AREA
5298
HEIGHT
2176
23-May-2024
09:51
firat
tastan



BEFORE
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



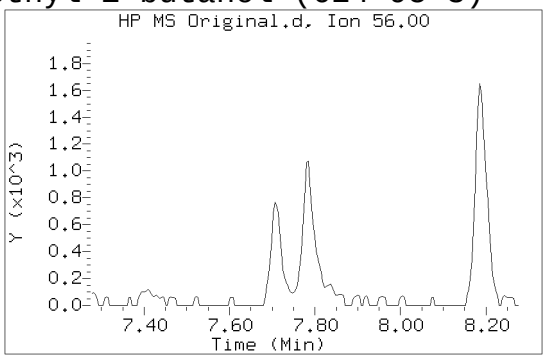
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

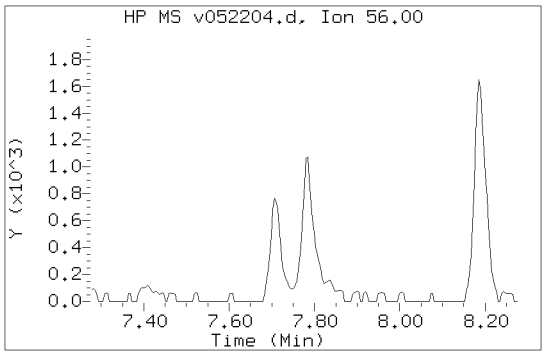
BEFORE

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56
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

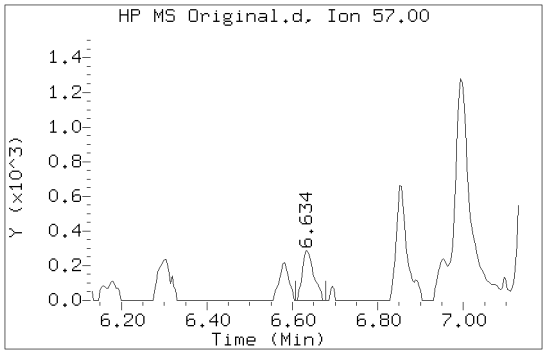


Epichlorohydrin (106-89-8)

Reason Code:

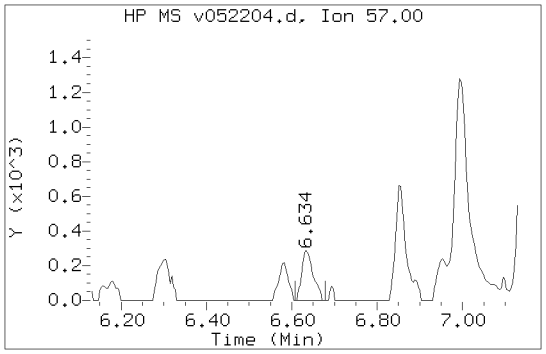
BEFORE

MASS
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AREA
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HEIGHT
288
23-May-2024
09:51
firat
tastan



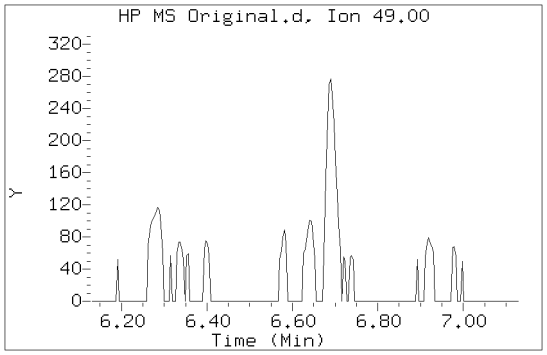
AFTER

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AREA
539
HEIGHT
288
23-May-2024
09:51
firat
tastan



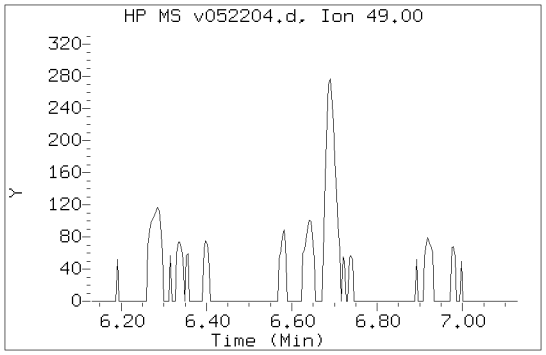
BEFORE

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

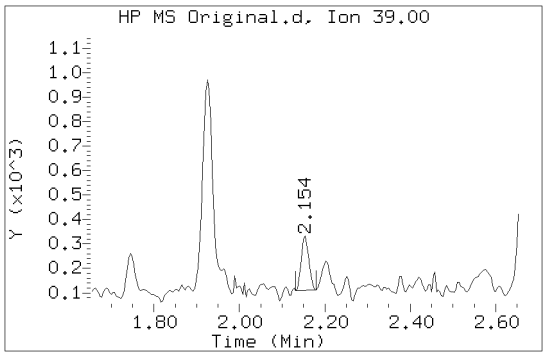


Isoprene (78-79-5)

Reason Code:

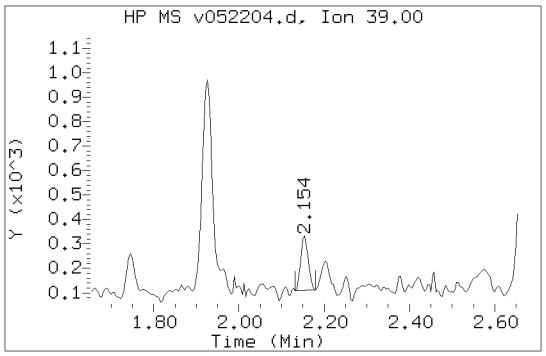
BEFORE

MASS
39
AREA
277
HEIGHT
221
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
277
HEIGHT
221
23-May-2024
09:51
firat
tastan

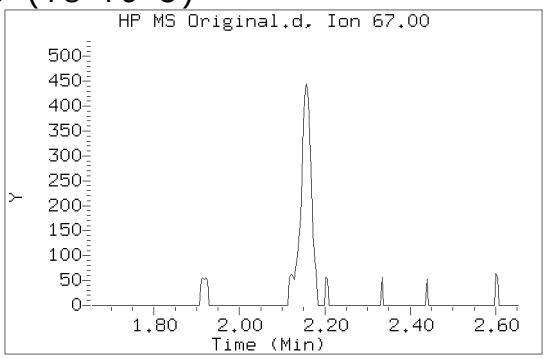


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

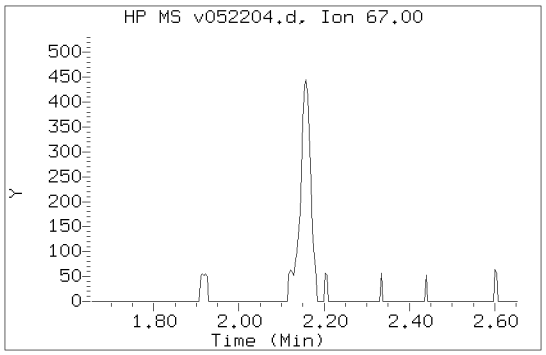
Isoprene (78-79-5)

Reason Code:

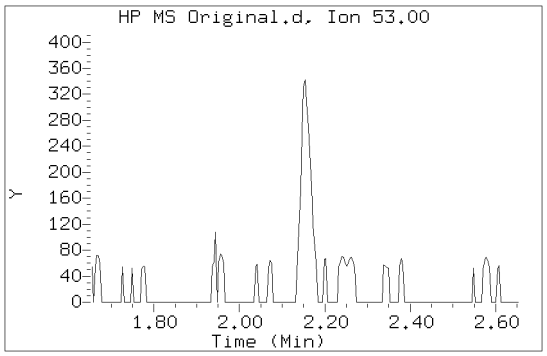
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MASS
67
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0
HEIGHT
0
23-May-2024
09:51
firat
tastan



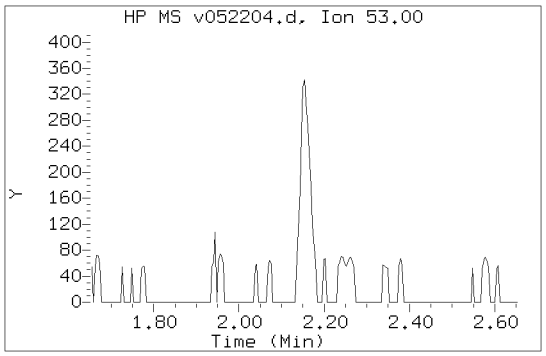
AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
53
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



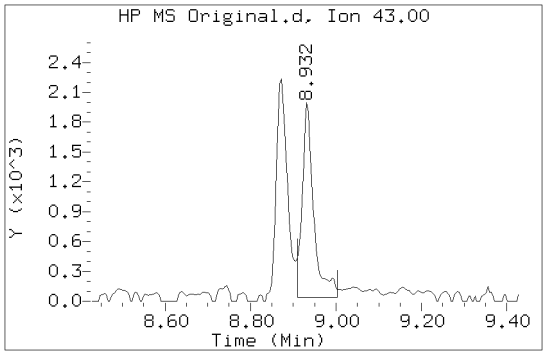
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53
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HEIGHT
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23-May-2024
09:51
firat
tastan



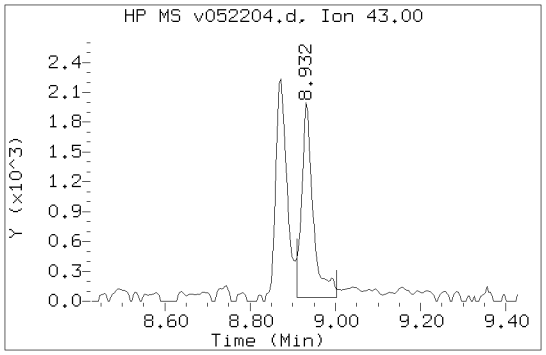
n-Amyl acetate (628-63-7)

Reason Code:

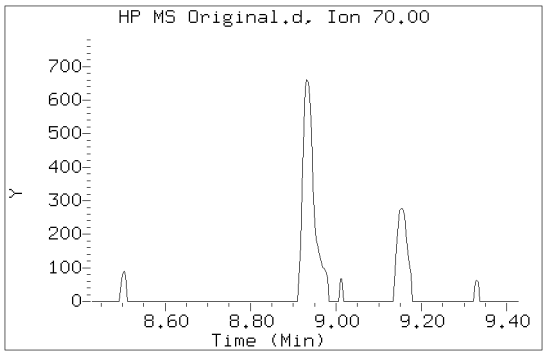
BEFORE
MASS
43
AREA
3766
HEIGHT
1962
23-May-2024
09:51
firat
tastan



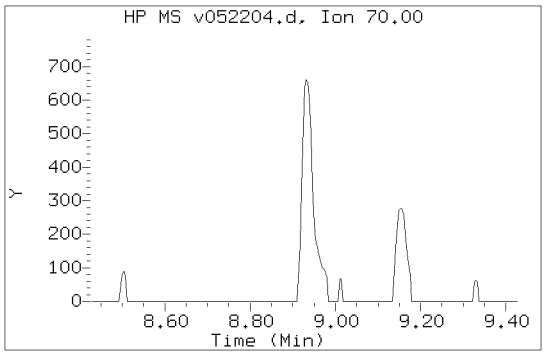
AFTER
MASS
43
AREA
3766
HEIGHT
1962
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



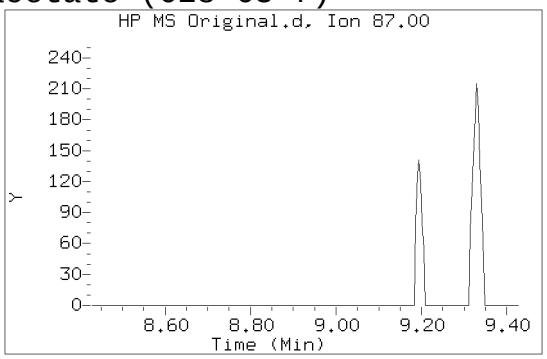
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

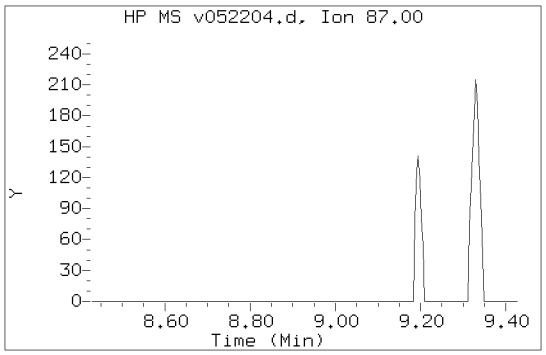
BEFORE

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

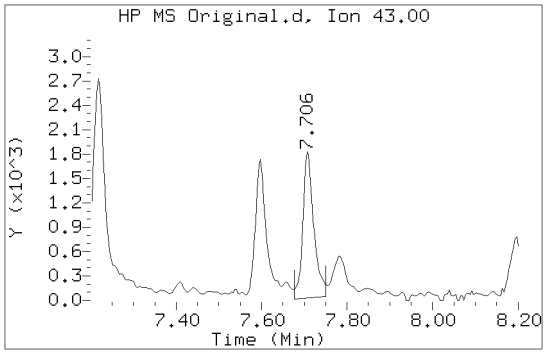


n-Butyl acetate (123-86-4)

Reason Code:

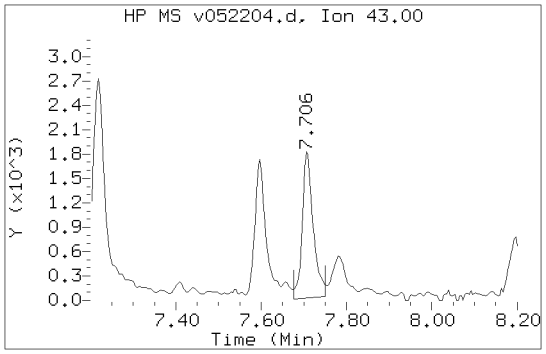
BEFORE

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AREA
3308
HEIGHT
1806
23-May-2024
09:51
firat
tastan



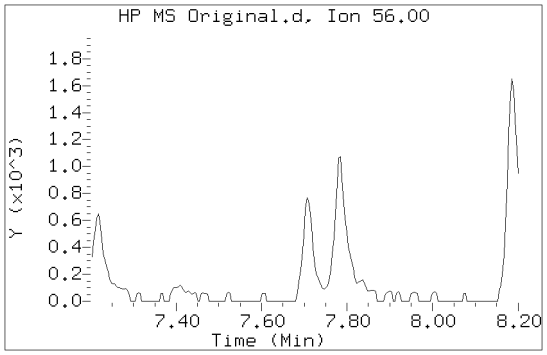
AFTER

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AREA
3308
HEIGHT
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23-May-2024
09:51
firat
tastan



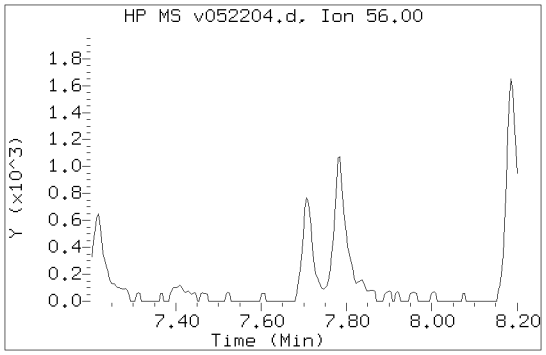
BEFORE

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HEIGHT
0
23-May-2024
09:51
firat
tastan



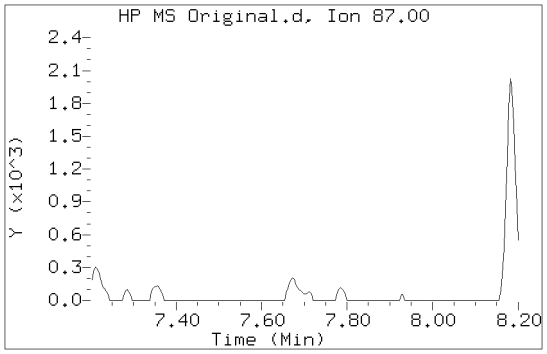
AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan



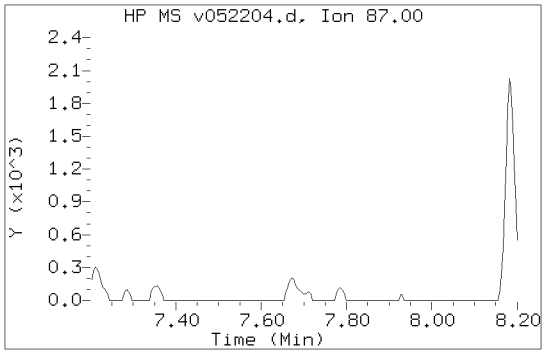
BEFORE

MASS
87
AREA
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HEIGHT
0
23-May-2024
09:51
firat
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AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
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firat
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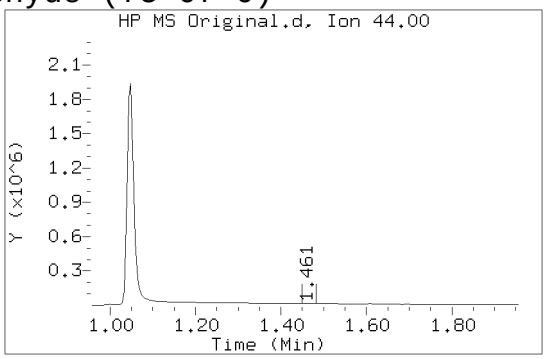


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InstruID : VOA9.i
LabSampID : VSTD001

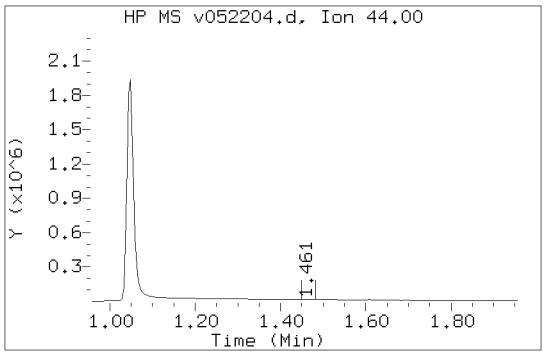
Acetaldehyde (75-07-0)

Reason Code:

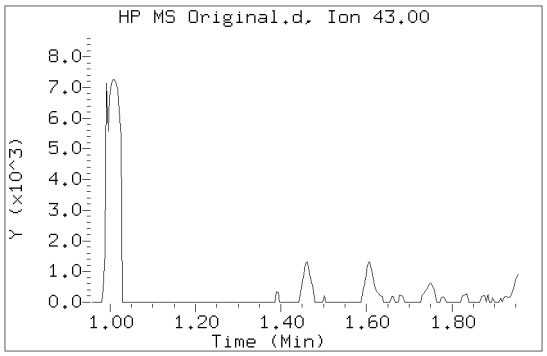
BEFORE
MASS
44
AREA
1439
HEIGHT
1416
23-May-2024
09:51
firat
tastan



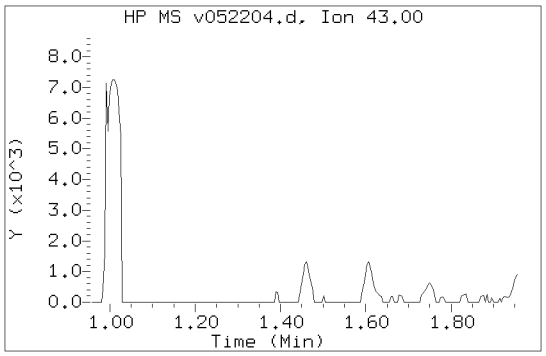
AFTER
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1439
HEIGHT
1416
23-May-2024
09:51
firat
tastan



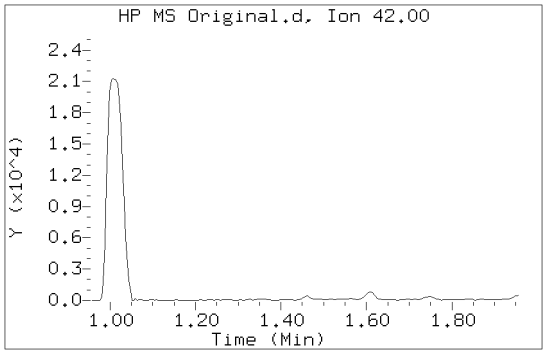
BEFORE
MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



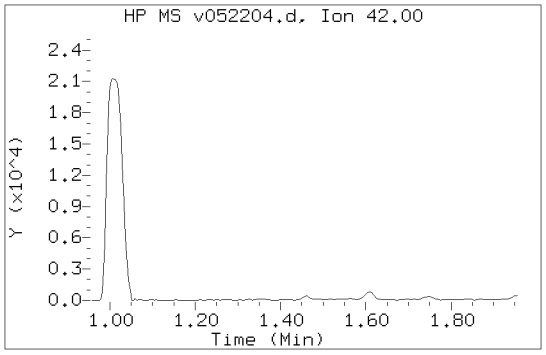
AFTER
MASS
43
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



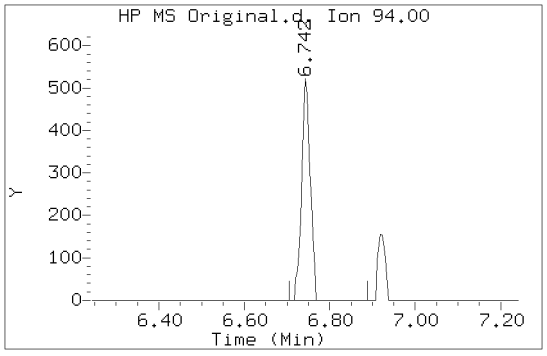
AFTER
MASS
42
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



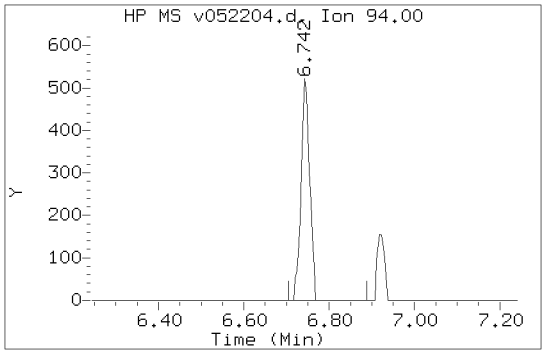
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
94
AREA
751
HEIGHT
522
23-May-2024
09:51
firat
tastan



AFTER
MASS
94
AREA
751
HEIGHT
522
23-May-2024
09:51
firat
tastan



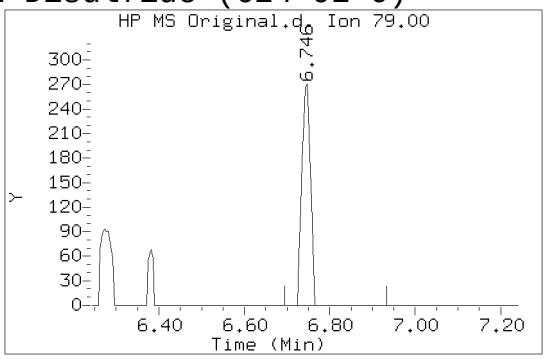
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

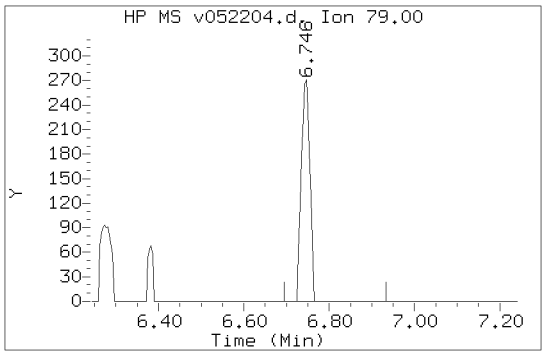
BEFORE

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AREA
390
HEIGHT
271
23-May-2024
09:51
firat
tastan



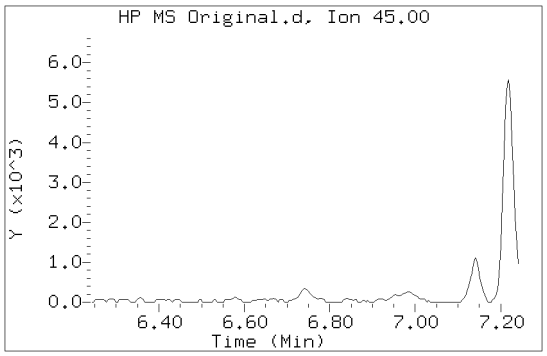
AFTER

MASS
79
AREA
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HEIGHT
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23-May-2024
09:51
firat
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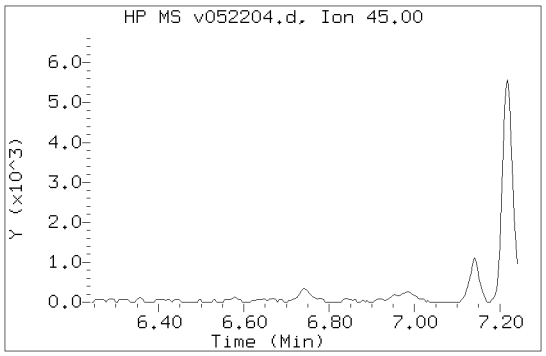
BEFORE

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23-May-2024
09:51
firat
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AFTER

MASS
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23-May-2024
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firat
tastan

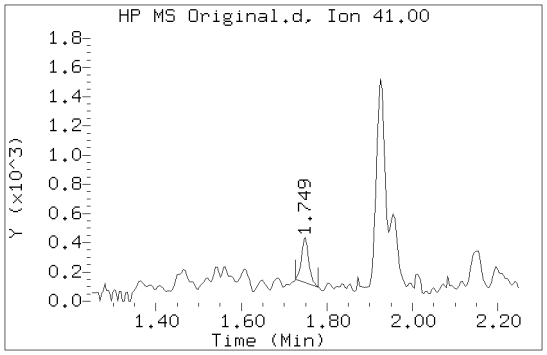


Isobutylene (115-11-7)

Reason Code:

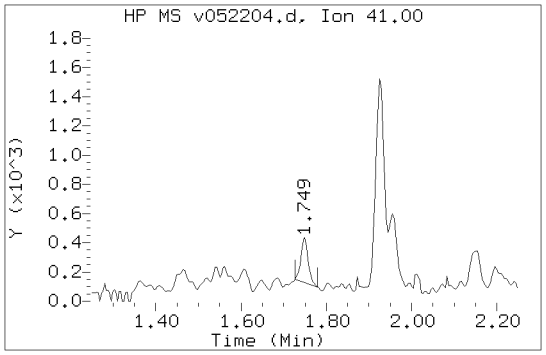
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HEIGHT
309
23-May-2024
09:51
firat
tastan



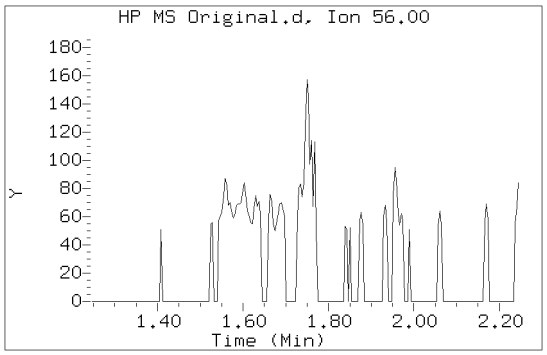
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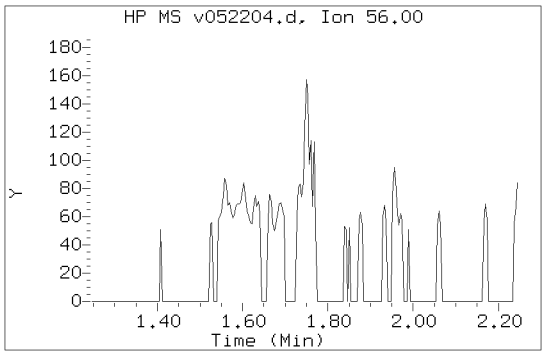
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AFTER

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23-May-2024
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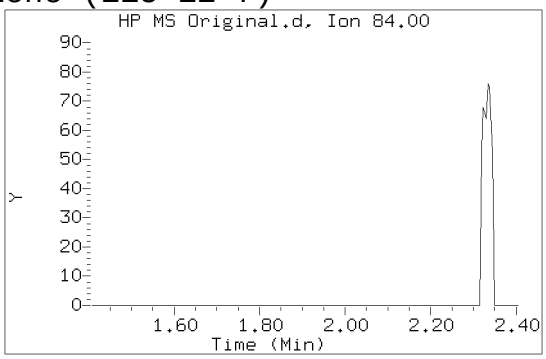
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Isobutylene (115-11-7)

Reason Code:

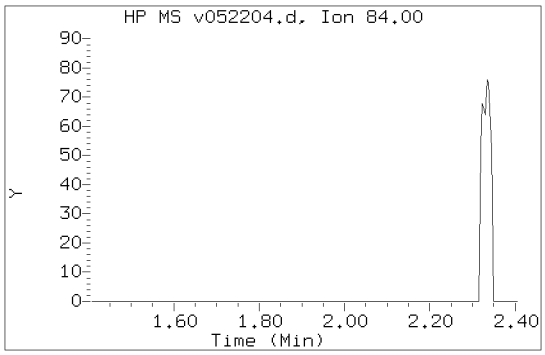
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AFTER

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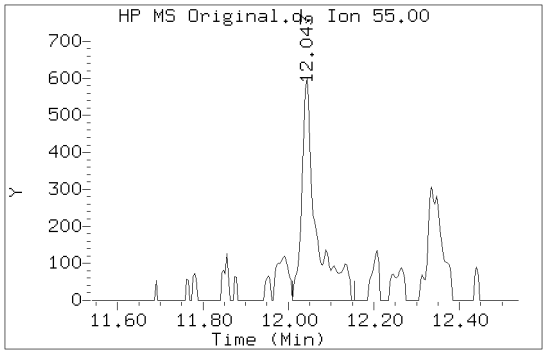


2-Ethylhexyl Acrylate (103-11-7)

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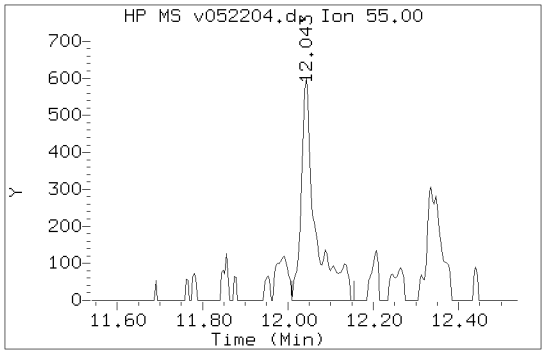
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23-May-2024
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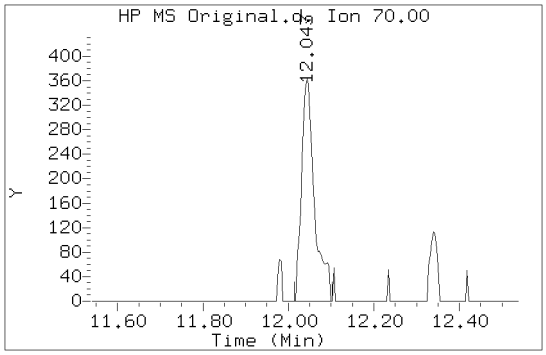
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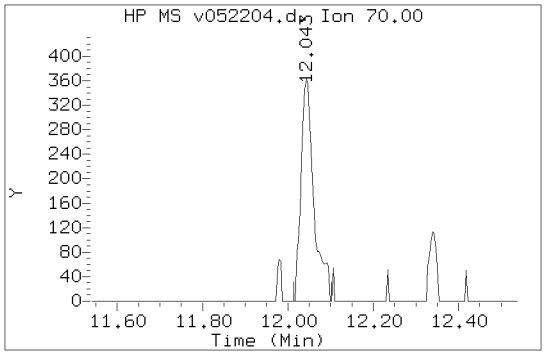
BEFORE

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363
23-May-2024
09:51
firat
tastan



AFTER

MASS
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781
HEIGHT
363
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D
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Inj Date : 22-MAY-2024 21:27
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:05 Cal File: V052204.D
Als bottle: 32 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	239076	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	2799	2.00000	2.19(M)
3	Chloromethane	50	1.299	1.299	(0.270)	18240	2.00000	2.45
4	Propionitrile	54	4.343	4.343	(0.902)	8325	20.0000	27.55(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	4927	2.00000	2.27
6	Bromomethane	94	1.621	1.621	(0.337)	3105	2.00000	2.62
7	Chloroethane	64	1.704	1.704	(0.354)	3661	2.00000	2.44
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	5428	2.00000	2.19
9	Acrolein	56	2.270	2.270	(0.471)	725	4.00000	5.82(aM)
10	Acetone	43	2.409	2.409	(0.500)	4226	4.00000	4.89
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	3639	2.00000	2.41
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	14294	40.0000	49.54(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	4770	20.0000	24.15(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	12724	2.00000	2.50(a)
15	Iodomethane	142	2.469	2.469	(0.513)	1618	4.00000	3.60(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	4082	4.00000	5.39
17	Methylene Chloride	84	2.795	2.795	(0.580)	7451	2.00000	2.51
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	12924	2.00000	2.69
19	Carbon Disulfide	76	2.521	2.521	(0.524)	20828	4.00000	4.57
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	4221	2.00000	2.44

21 Vinyl Acetate	43	4.343	4.343 (0.902)	5865	4.00000	4.96(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	8759	2.00000	2.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	6360	2.00000	2.41(aM)
	24 2-Butanone	43	4.272	4.272	(0.887)	5940	4.00000	5.33
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	3544	2.00000	2.81(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	4983	2.00000	2.36
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	5181	2.00000	2.50
	28 Chloroform	83	4.575	4.575	(0.950)	8888	2.00000	2.58
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2688	2.00000	2.63
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	4978	2.00000	2.86
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	5333	2.00000	2.21
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	5942	2.00000	2.37
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	7453	2.00000	2.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	4159	2.00000	2.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	6849	2.00000	3.14
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354246	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	20260	2.00000	2.50
	38 Trichloroethene	130	5.786	5.786	(1.043)	4638	2.00000	2.36(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	5068	2.00000	2.34(aM)
	40 Methyl Methacrylate	41	5.831	5.831	(1.211)	2174	2.00000	2.90(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	2608	4.00000	3.78
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	5897	2.00000	2.62(a)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	954	2.00000	2.32(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	3121	2.00000	2.55(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	10418	4.00000	4.75(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	5352	2.00000	2.15(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	317294	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	17737	2.00000	2.75(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	6218	2.00000	2.37(aM)
	50 Toluene	91	6.978	6.978	(0.853)	19857	2.00000	2.47(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	3854	2.00000	1.98(a)
	52 2-Hexanone	43	7.593	7.593	(0.928)	6749	4.00000	4.60(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4383	2.00000	2.76(a)
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	8637	2.00000	2.59(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	3234	2.00000	2.07(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	3632	2.00000	2.40(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	4379	2.00000	2.58(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.475)	6784	2.00000	2.39(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	13797	2.00000	2.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3979	2.00000	2.40(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	6101	2.00000	2.37(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	15303	4.00000	4.84(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	7250	2.00000	2.34(a)
	64 Styrene	104	8.763	8.763	(1.071)	11838	2.00000	2.25(a)
	66 Bromoform	173	8.916	8.916	(1.090)	1952	2.00000	2.01(Ta)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	17414	2.00000	2.27(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	6823	2.00000	2.63(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	7375	2.00000	2.99(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168721	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	5886	2.00000	2.27(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1369	2.00000	2.41(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	19974	2.00000	2.29(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	5788	2.00000	2.60(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	13231	2.00000	2.20(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	14272	2.00000	2.52(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	16356	2.00000	2.54(a)

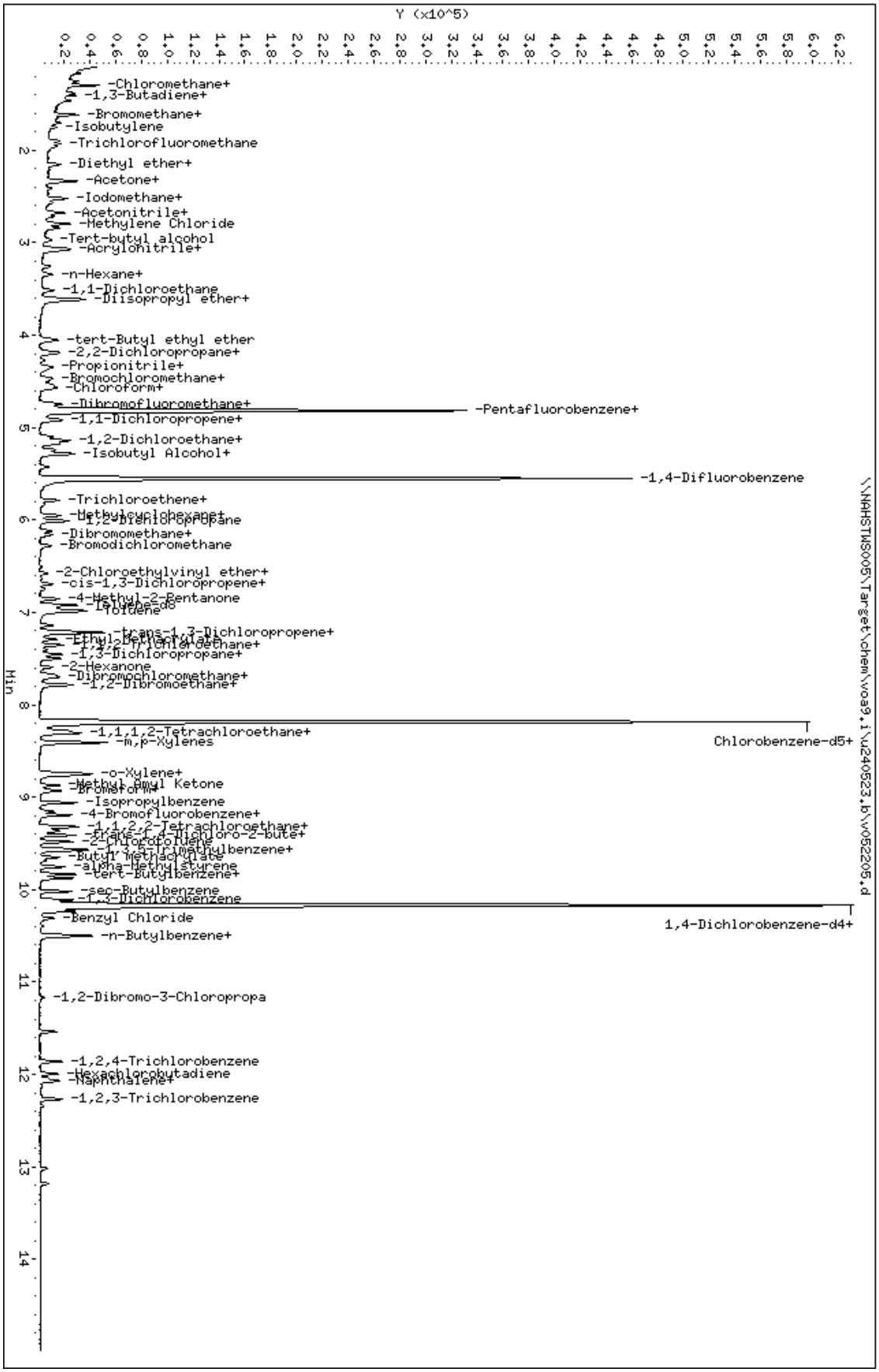
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	11953	2.00000	2.26(a)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	13720	2.00000	2.22(a)
	81 sec-Butylbenzene	105	10.018	10.018	(0.985)	15557	2.00000	2.21(a)
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	13299	2.00000	2.17(a)
	83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	10178	2.00000	2.55(aM)
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	11601	2.00000	2.60(a)
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	7550	2.00000	2.17(a)
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	12812	2.00000	2.16(a)
	88 1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	10650	2.00000	2.63(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	632	2.00000	2.21(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	5761	2.00000	2.27(a)
	91 Hexachlorobutadiene	225	11.994	11.994	(1.180)	2569	2.00000	2.30(a)
	92 Naphthalene	128	12.069	12.069	(1.187)	11869	2.00000	2.20(a)
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	5635	2.00000	2.38(a)
	146 Methyl acetate	43	2.716	2.716	(0.564)	6584	2.00000	2.76(a)
	138 Freon TF	101	2.334	2.334	(0.485)	5517	2.00000	2.14(a)
	141 Cyclohexane	56	4.785	4.785	(0.994)	9869	2.00000	2.27(aM)
	142 Tetrahydrofuran	42	4.545	4.545	(0.944)	2093	4.00000	4.62(a)
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	9046	2.00000	2.12(a)
	135 1,4-Dioxane	88	6.168	6.168	(1.281)	1210	40.0000	44.69
	132 n-Butanol	56	5.839	5.839	(1.213)	1923	40.0000	42.70(a)
	136 n-Hexane	57	3.342	3.342	(0.694)	3911	2.00000	2.09(a)
	139 Diethyl ether	59	2.146	2.146	(0.446)	3327	2.00000	2.51(a)
	148 Tert-butyl alcohol	59	2.971	2.971	(0.617)	7842	40.0000	55.15
	149 Isopropyl alcohol	45	2.566	2.566	(0.533)	6005	40.0000	52.39(T)
	152 Amyl alcohol	42	7.402	7.402	(0.905)	2287	40.0000	41.09
	156 Diisopropyl ether	45	3.619	3.619	(0.752)	16134	2.00000	2.57(Ta)
	162 Butyl acrylate	55	8.733	8.733	(1.067)	7948	2.00000	2.36(a)
	187 n-Amyl acetate	43	8.931	8.931	(1.092)	9669	2.00000	2.69(aM)
	164 Dicyclopentadiene	66	10.198	10.198	(1.003)	19537	2.00000	2.23(a)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	12904	2.00000	2.25(a)
	167 Ethanol	45	2.086	2.086	(0.433)	1328	40.0000	56.77
	172 tert-Butyl formate	59	5.239	5.239	(1.088)	6942	4.00000	5.04(M)
	173 3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	9713	40.0000	46.31(M)
	174 tert-Amyl methyl ether	73	5.284	5.284	(1.097)	12431	2.00000	2.35(a)
	175 tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	12975	2.00000	2.44(a)
	176 tert-Amyl alcohol	59	5.239	5.239	(1.088)	6942	40.0000	50.66
	151 4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	23380	40.0000	44.13
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	2110	2.00000	2.23(a)
	182 Epichlorohydrin	57	6.633	6.633	(1.195)	1366	8.00000	10.59(M)
M	94 1,2-Dichloroethylene (total)	96				9402	4.00000	(a)
	130 Ethyl Acetate	43	4.343	4.343	(0.902)	6005	2.00000	2.57(Ta)
	131 Methyl Acrylate	55	4.377	4.377	(0.909)	6155	2.00000	2.68(a)
	189 n-Butyl acetate	43	7.705	7.705	(0.942)	7821	2.00000	2.39(a)
	134 Cyclohexanone	55	9.152	9.152	(0.900)	4862	40.0000	49.84(a)
	185 Isoprene	39	2.154	2.154	(0.447)	854	2.00000	2.10(a)
	188 Isopropyl acetate	43	5.288	5.288	(0.953)	14294	2.00000	2.40(a)
	150 Allyl alcohol	57	3.342	3.342	(0.694)	3911	40.0000	41.83
	194 Acetaldehyde	44	1.464	1.464	(0.304)	3129	8.00000	9.70(M)
	195 Methyl Amyl Ketone	43	8.868	8.868	(1.084)	9513	2.00000	2.39(a)
	200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	1761	2.00000	1.75(a)
	202 Isobutylene	41	1.753	1.753	(0.364)	1170	2.00000	2.14(aM)

133 Ethyl Acrylate	55	5.947	5.947 (1.235)	9098	2.00000	2.15(aM)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4741	2.00000	2.06(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	836	4.00000	4.62(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	3034	2.00000	1.85(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: VOA9.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052205.d

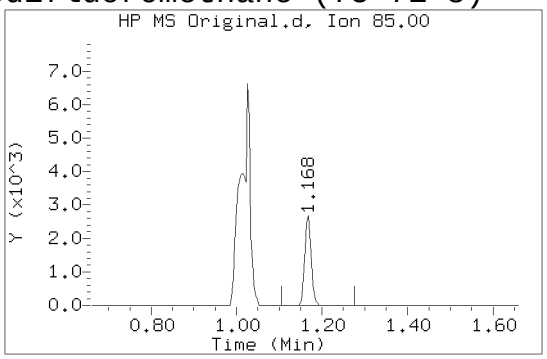
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InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

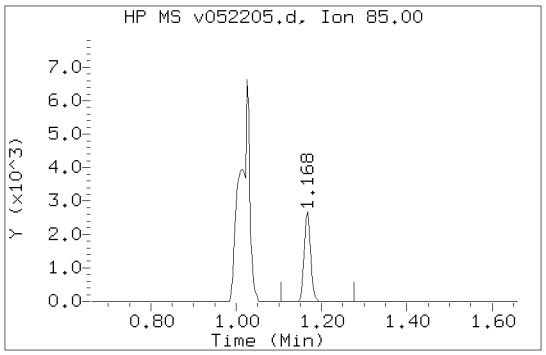
BEFORE

MASS
85
AREA
2799
HEIGHT
2683
23-May-2024
09:51
firat
tastan



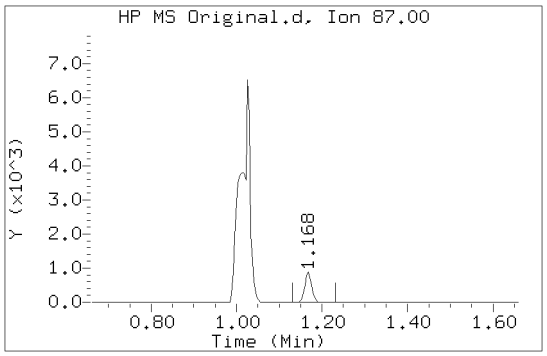
AFTER

MASS
85
AREA
2799
HEIGHT
2683
23-May-2024
09:51
firat
tastan



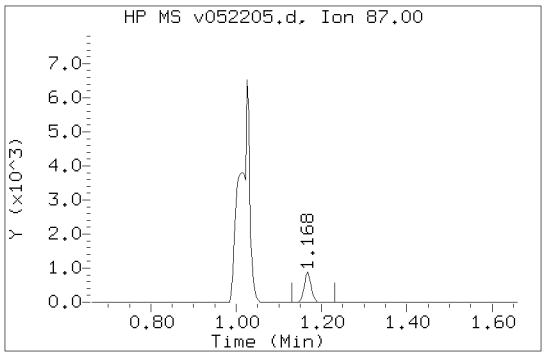
BEFORE

MASS
87
AREA
983
HEIGHT
887
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
983
HEIGHT
887
23-May-2024
09:51
firat
tastan

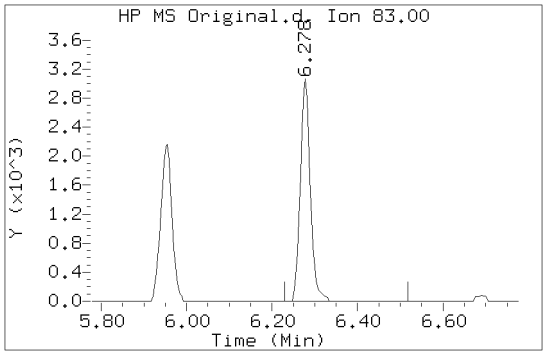


Bromodichloromethane (75-27-4)

Reason Code:

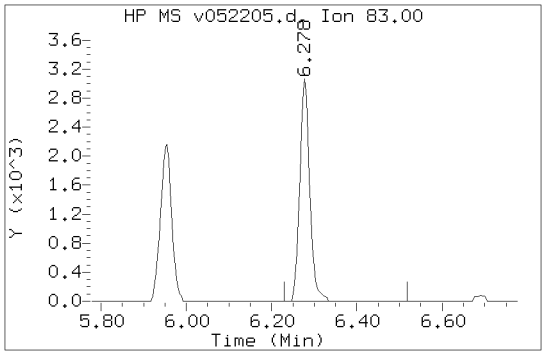
BEFORE

MASS
83
AREA
5068
HEIGHT
3064
23-May-2024
09:51
firat
tastan



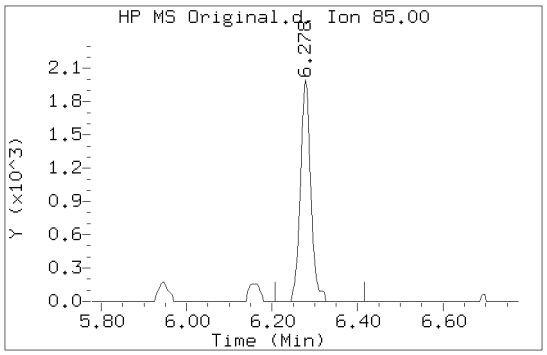
AFTER

MASS
83
AREA
5068
HEIGHT
3064
23-May-2024
09:51
firat
tastan



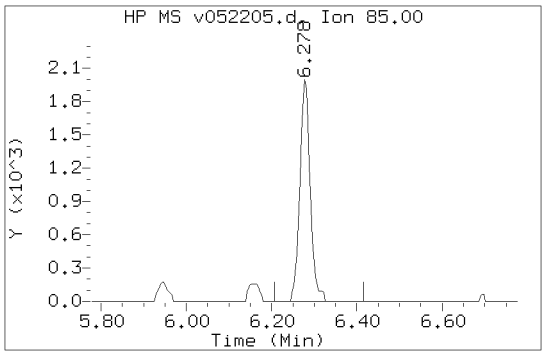
BEFORE

MASS
85
AREA
3433
HEIGHT
1997
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
3433
HEIGHT
1997
23-May-2024
09:51
firat
tastan



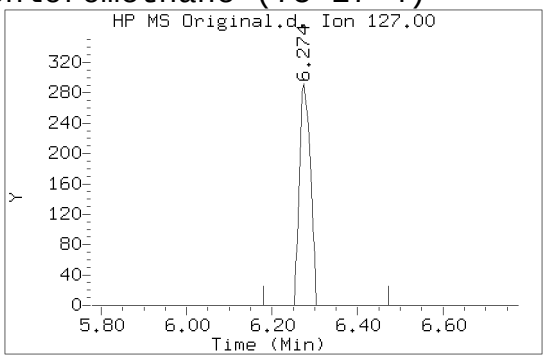
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

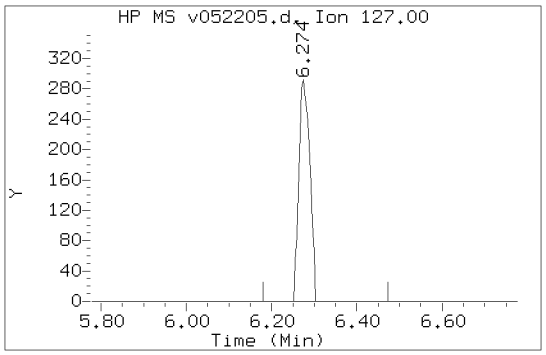
BEFORE

MASS
127
AREA
532
HEIGHT
292
23-May-2024
09:51
firat
tastan



AFTER

MASS
127
AREA
532
HEIGHT
292
23-May-2024
09:51
firat
tastan

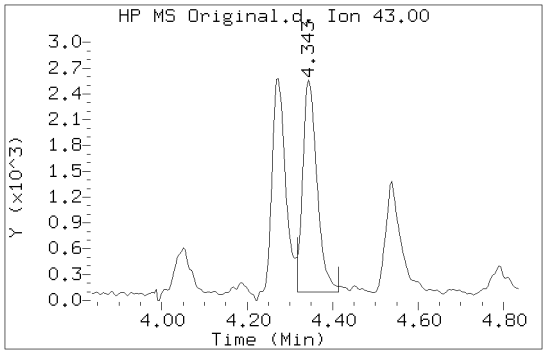


Vinyl Acetate (108-05-4)

Reason Code:

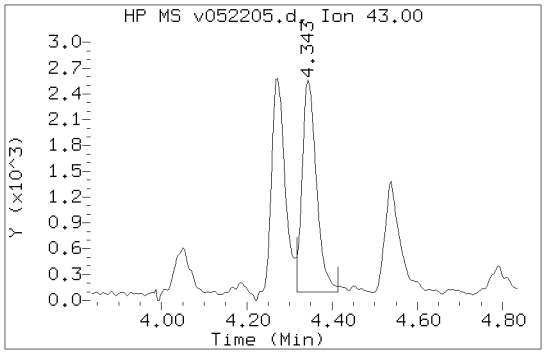
BEFORE

MASS
43
AREA
5865
HEIGHT
2469
23-May-2024
09:51
firat
tastan



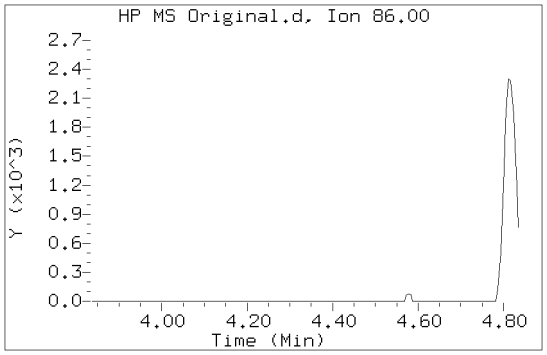
AFTER

MASS
43
AREA
5865
HEIGHT
2469
23-May-2024
09:51
firat
tastan



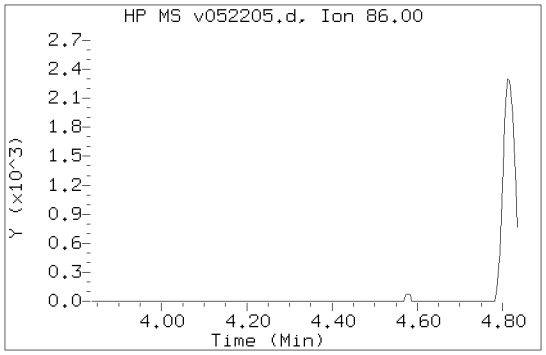
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

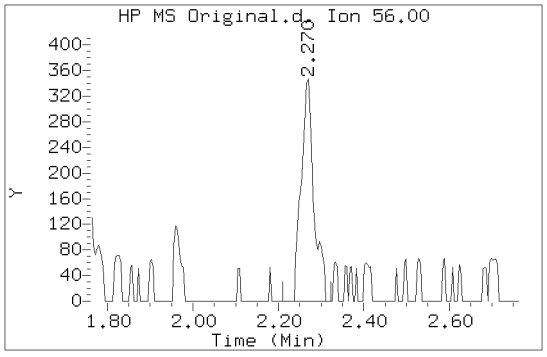


Acrolein (107-02-8)

Reason Code:

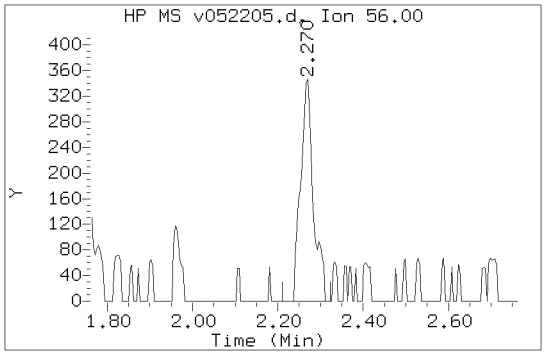
BEFORE

MASS
56
AREA
725
HEIGHT
347
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
725
HEIGHT
347
23-May-2024
09:51
firat
tastan



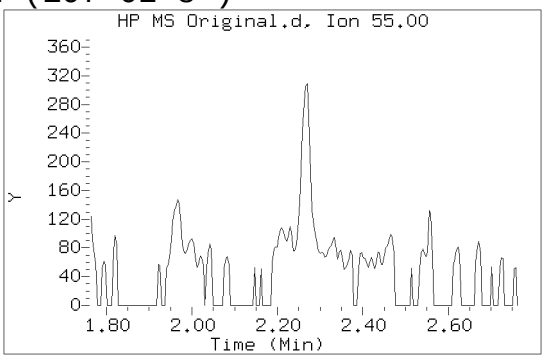
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

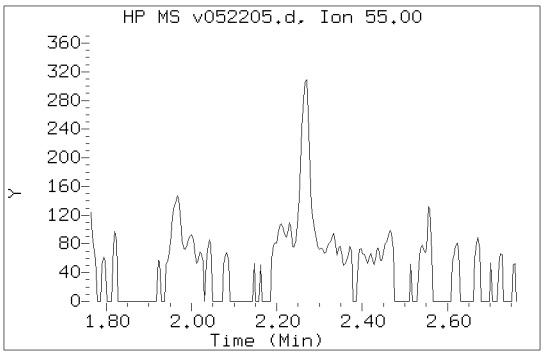
BEFORE

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

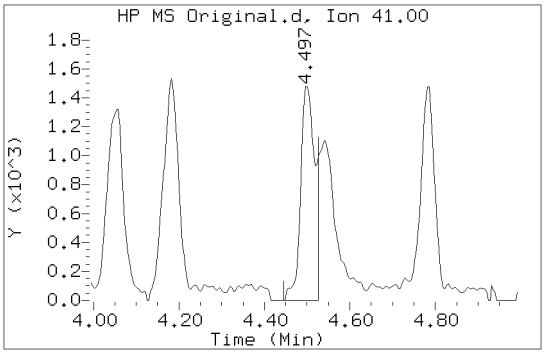


Methacrylonitrile (126-98-7)

Reason Code:

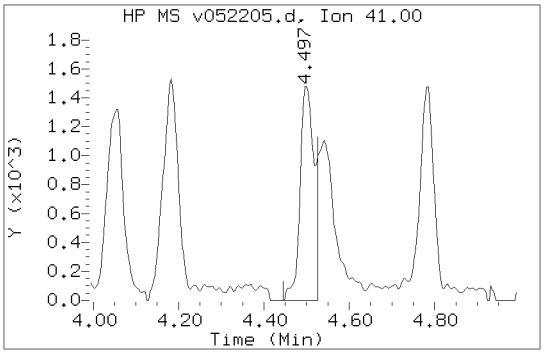
BEFORE

MASS
41
AREA
3544
HEIGHT
1480
23-May-2024
09:51
firat
tastan



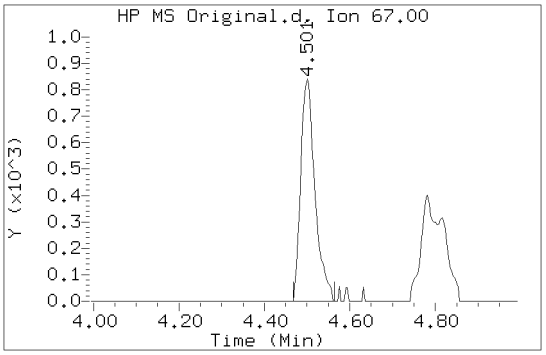
AFTER

MASS
41
AREA
3544
HEIGHT
1480
23-May-2024
09:51
firat
tastan



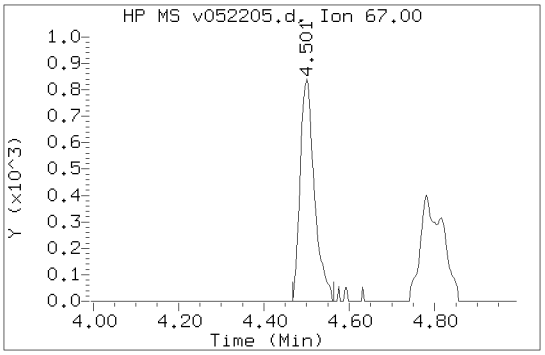
BEFORE

MASS
67
AREA
1973
HEIGHT
841
23-May-2024
09:51
firat
tastan



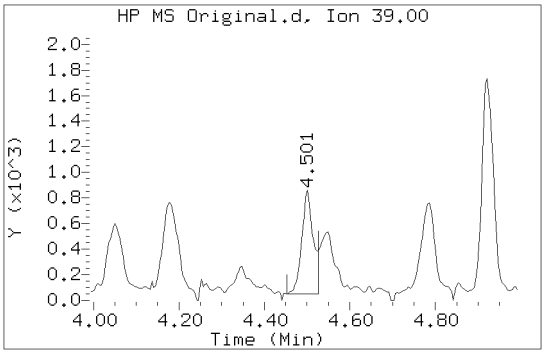
AFTER

MASS
67
AREA
1973
HEIGHT
841
23-May-2024
09:51
firat
tastan



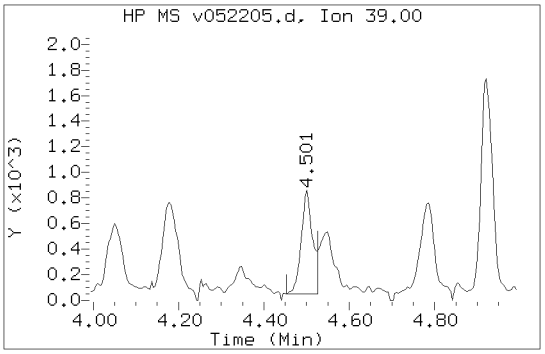
BEFORE

MASS
39
AREA
1551
HEIGHT
812
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1551
HEIGHT
812
23-May-2024
09:51
firat
tastan

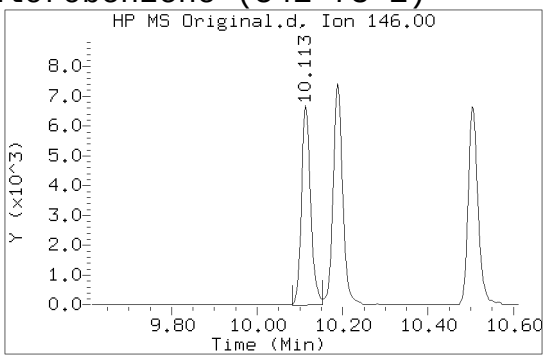


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

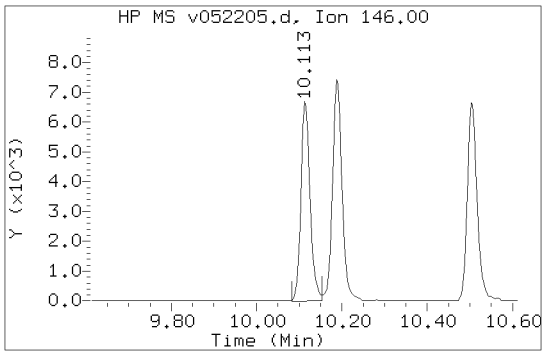
1,3-Dichlorobenzene (541-73-1)

Reason Code:

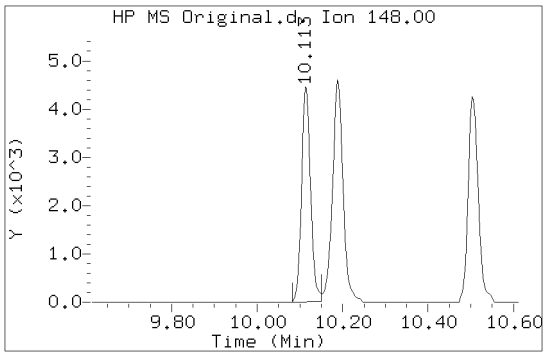
BEFORE
MASS
146
AREA
10178
HEIGHT
6687
23-May-2024
09:51
firat
tastan



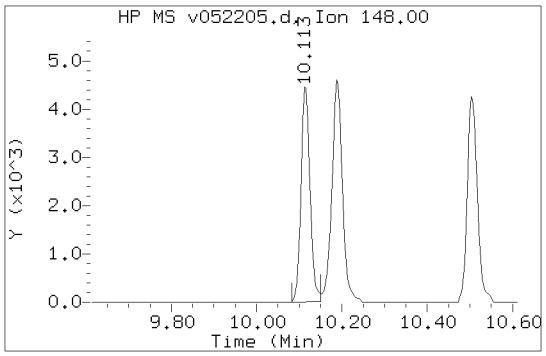
AFTER
MASS
146
AREA
10178
HEIGHT
6687
23-May-2024
09:51
firat
tastan



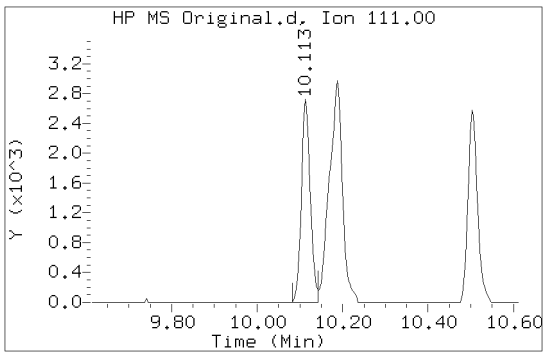
BEFORE
MASS
148
AREA
6645
HEIGHT
4450
23-May-2024
09:51
firat
tastan



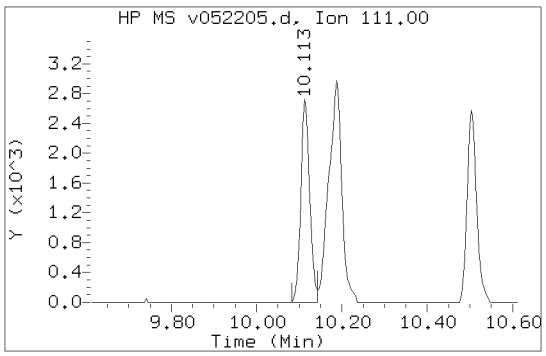
AFTER
MASS
148
AREA
6645
HEIGHT
4450
23-May-2024
09:51
firat
tastan



BEFORE
MASS
111
AREA
4008
HEIGHT
2720
23-May-2024
09:51
firat
tastan



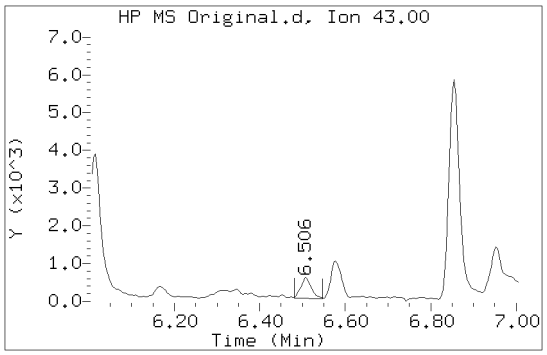
AFTER
MASS
111
AREA
4008
HEIGHT
2720
23-May-2024
09:51
firat
tastan



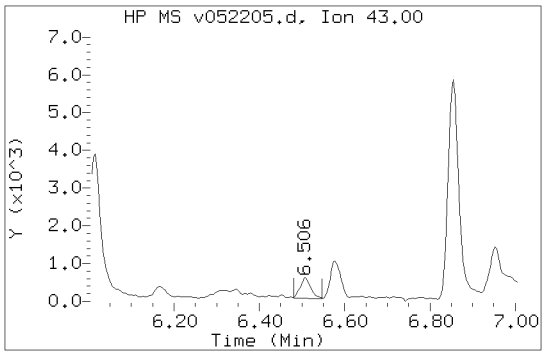
2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



AFTER
MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



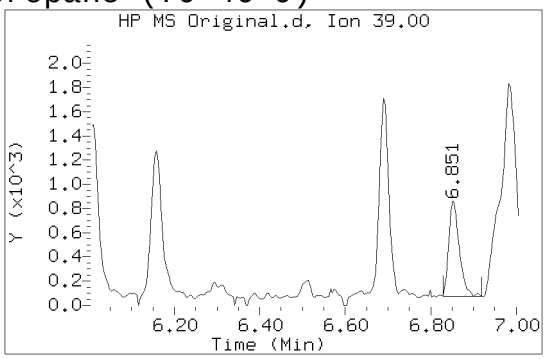
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

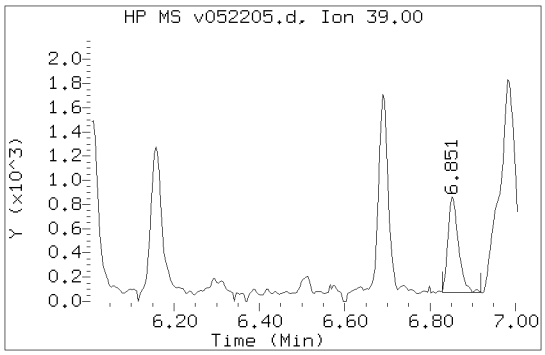
BEFORE

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan

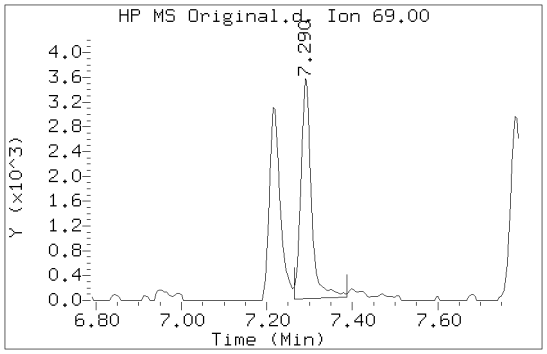


Ethyl Methacrylate (97-63-2)

Reason Code:

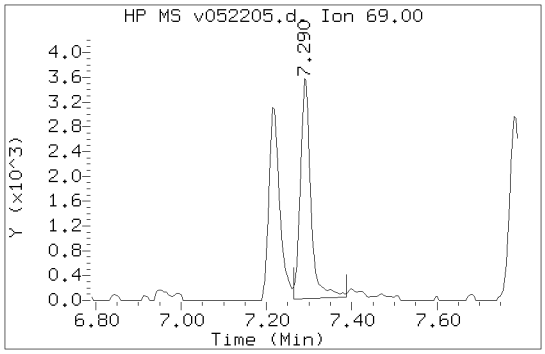
BEFORE

MASS
69
AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



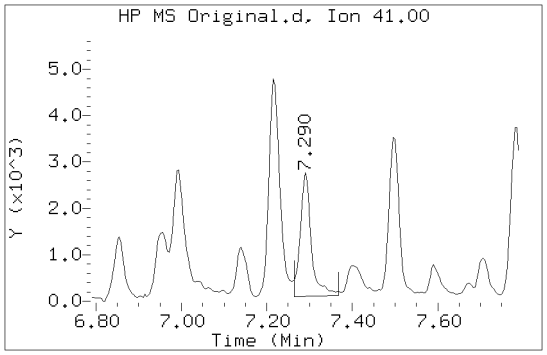
AFTER

MASS
69
AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



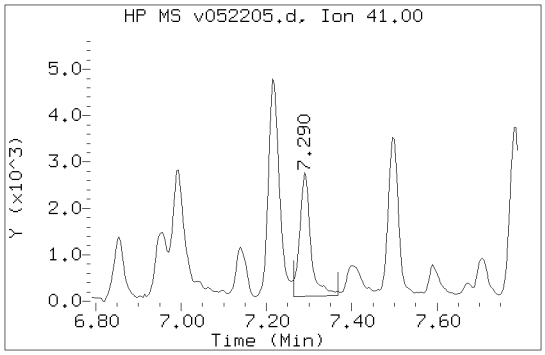
BEFORE

MASS
41
AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan

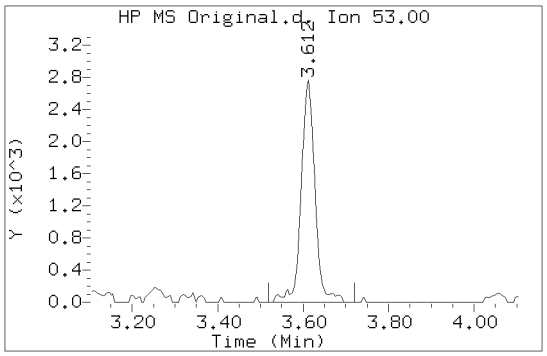


Chloroprene (126-99-8)

Reason Code:

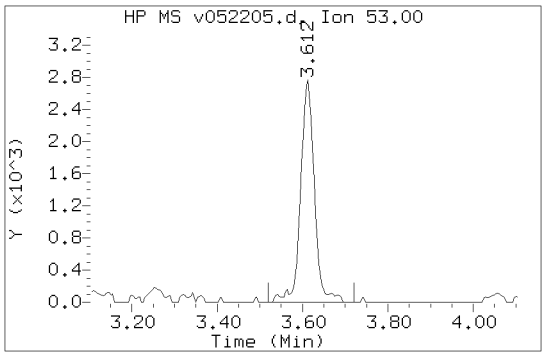
BEFORE

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



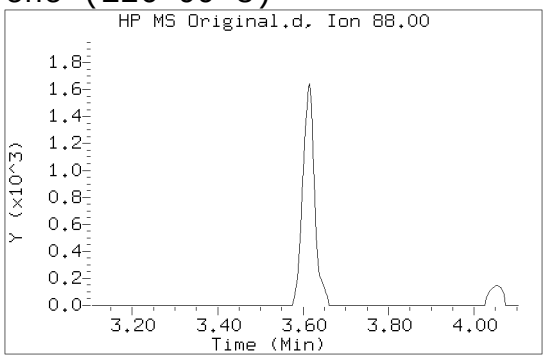
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

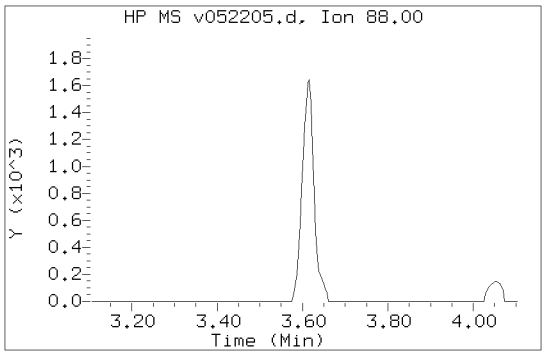
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

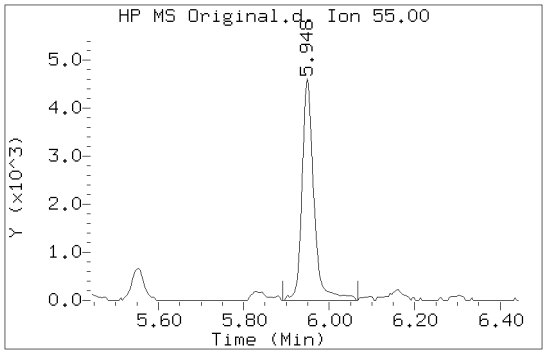


Ethyl Acrylate (140-88-5)

Reason Code:

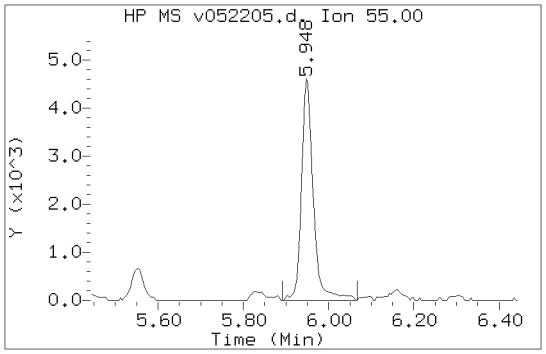
BEFORE

MASS
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9098
HEIGHT
4617
23-May-2024
09:51
firat
tastan



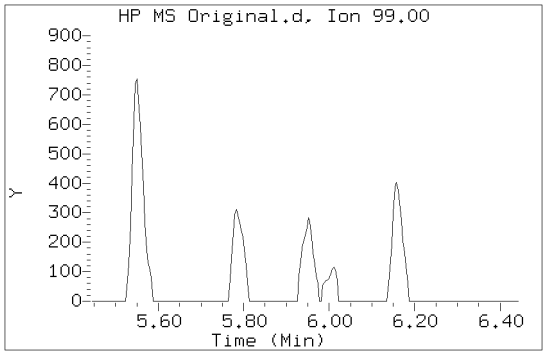
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AREA
9098
HEIGHT
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23-May-2024
09:51
firat
tastan



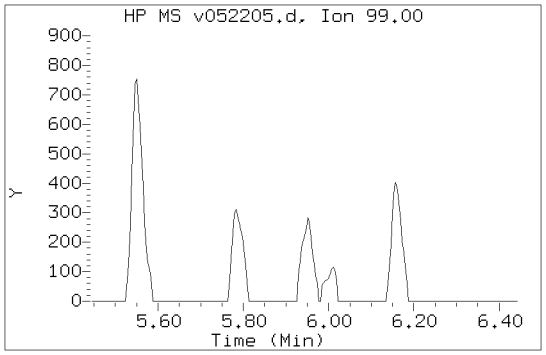
BEFORE

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
99
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

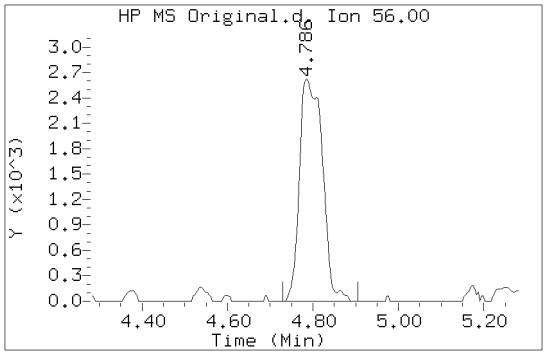


Cyclohexane (110-82-7)

Reason Code:

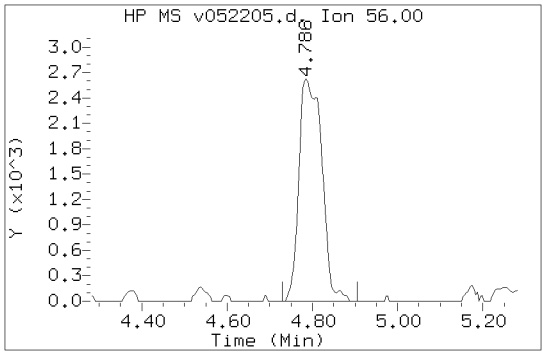
BEFORE

MASS
56
AREA
9869
HEIGHT
2624
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
9869
HEIGHT
2624
23-May-2024
09:51
firat
tastan



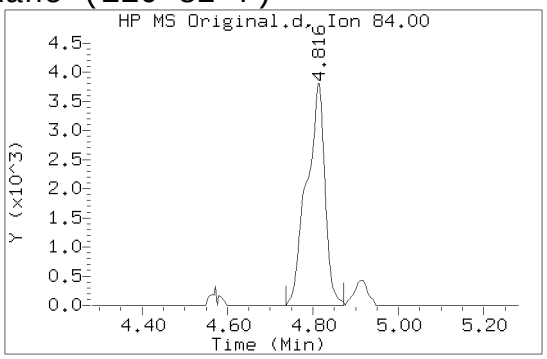
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

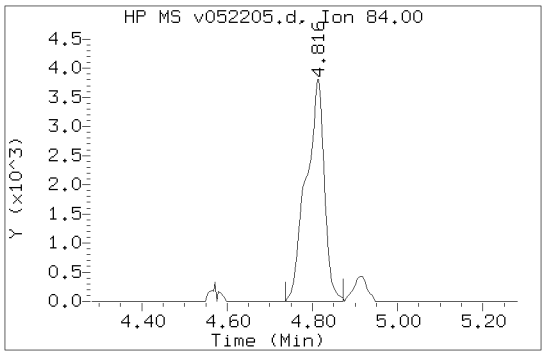
BEFORE

MASS
84
AREA
11391
HEIGHT
3803
23-May-2024
09:51
firat
tastan



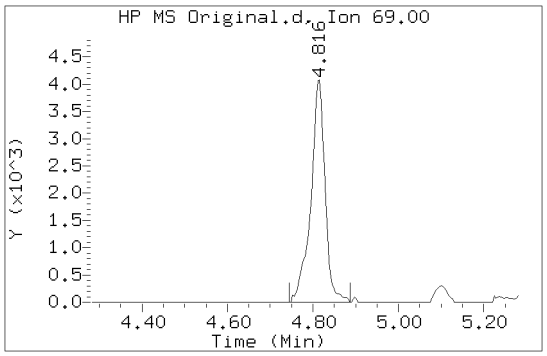
AFTER

MASS
84
AREA
11391
HEIGHT
3803
23-May-2024
09:51
firat
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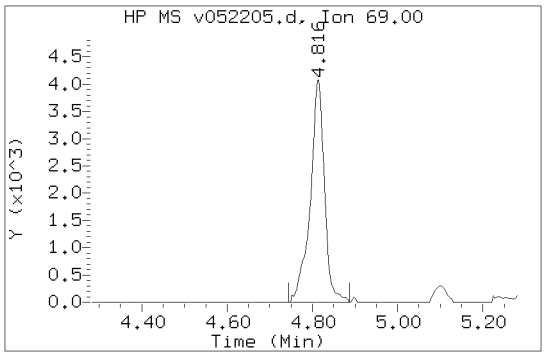
BEFORE

MASS
69
AREA
9488
HEIGHT
4077
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
9488
HEIGHT
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23-May-2024
09:51
firat
tastan

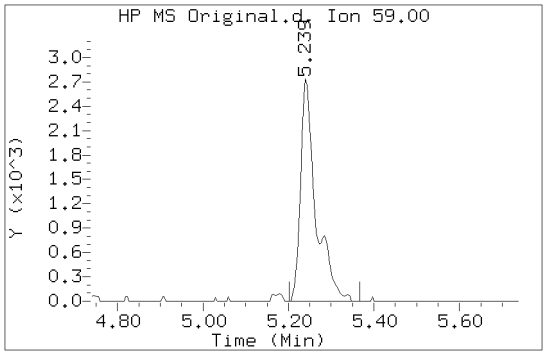


tert-Butyl formate (762-75-4)

Reason Code:

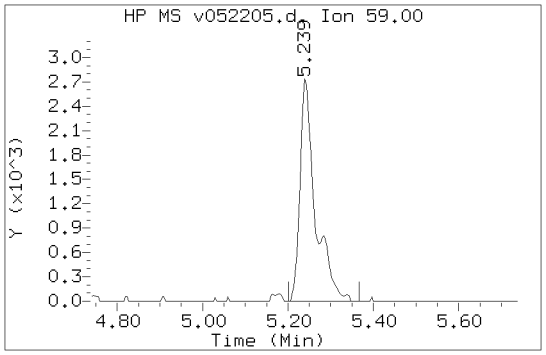
BEFORE

MASS
59
AREA
6942
HEIGHT
2737
23-May-2024
09:51
firat
tastan



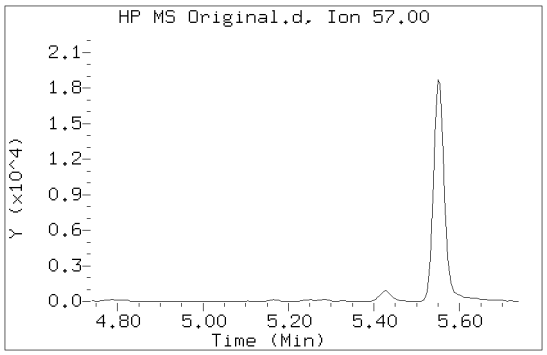
AFTER

MASS
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6942
HEIGHT
2737
23-May-2024
09:51
firat
tastan



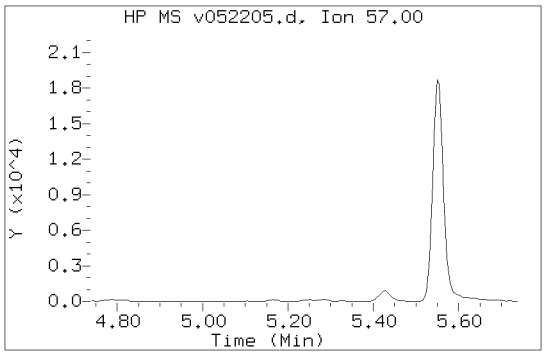
BEFORE

MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



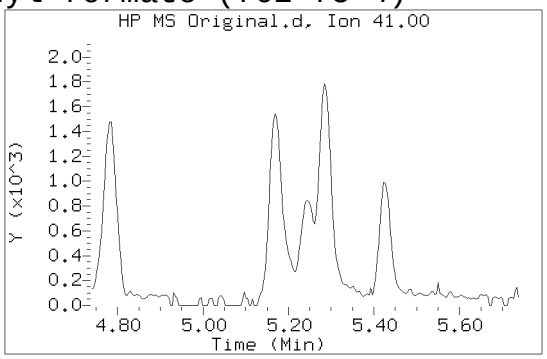
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

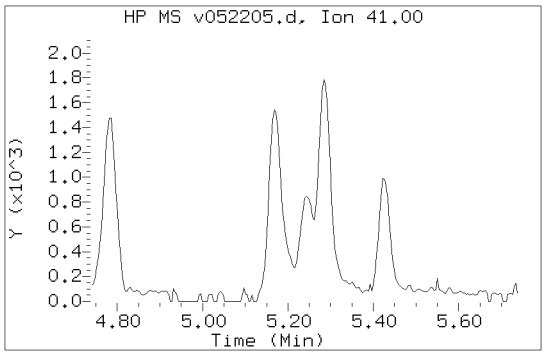
BEFORE

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

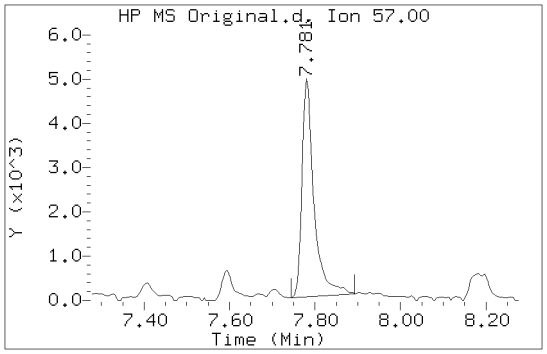


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

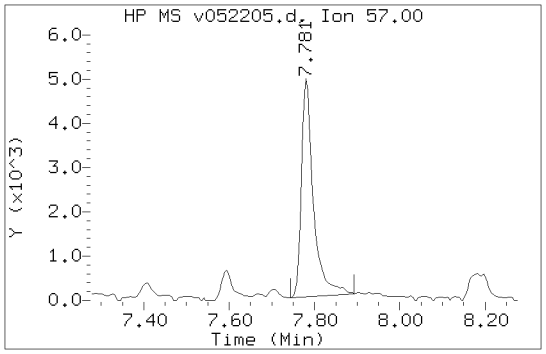
BEFORE

MASS
57
AREA
9713
HEIGHT
4929
23-May-2024
09:51
firat
tastan



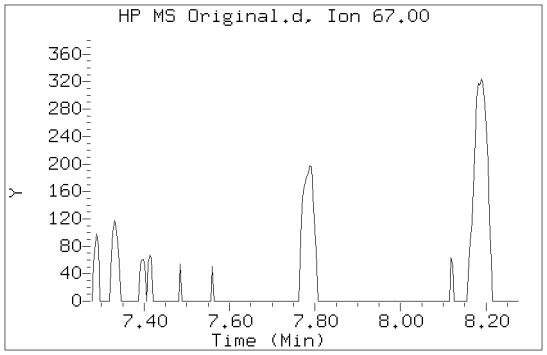
AFTER

MASS
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AREA
9713
HEIGHT
4929
23-May-2024
09:51
firat
tastan



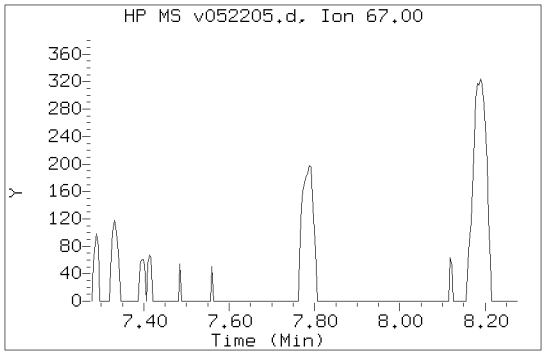
BEFORE

MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan



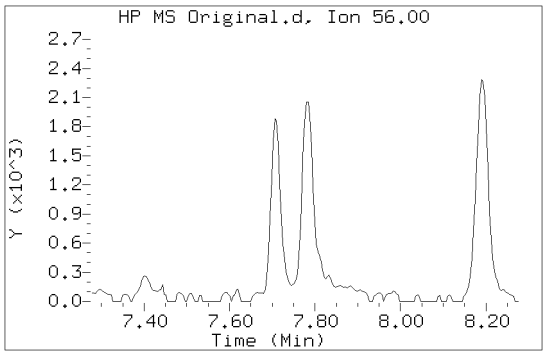
AFTER

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23-May-2024
09:51
firat
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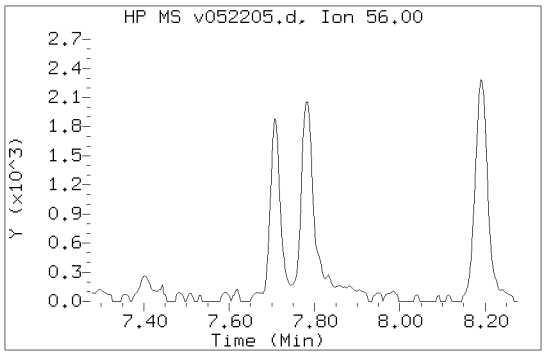
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

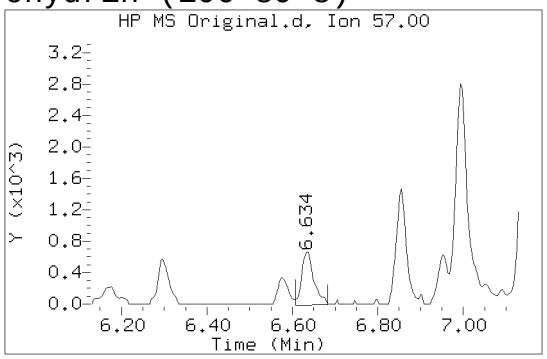


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

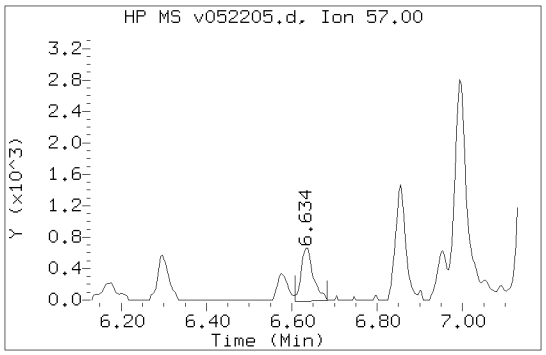
Epichlorohydrin (106-89-8)

Reason Code:

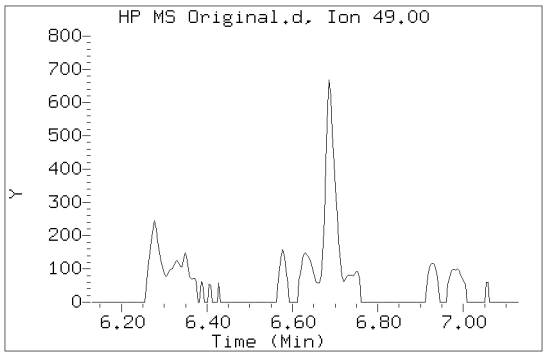
BEFORE
MASS
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AREA
1366
HEIGHT
677
23-May-2024
09:51
firat
tastan



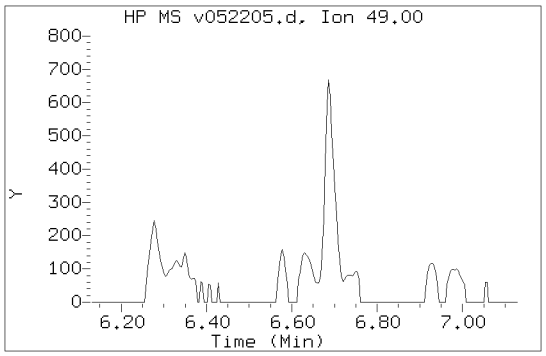
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AREA
1366
HEIGHT
677
23-May-2024
09:51
firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



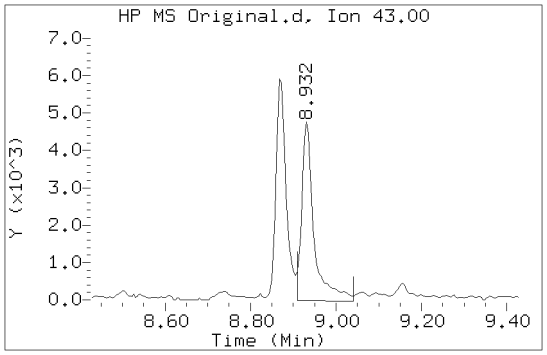
AFTER
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HEIGHT
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23-May-2024
09:51
firat
tastan



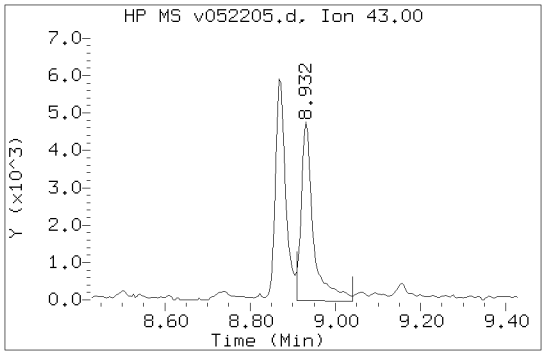
n-Amyl acetate (628-63-7)

Reason Code:

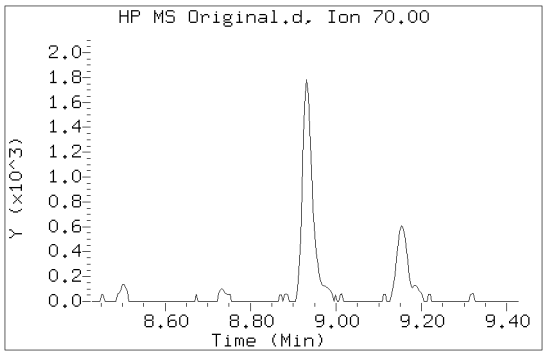
BEFORE
MASS
43
AREA
9669
HEIGHT
4774
23-May-2024
09:51
firat
tastan



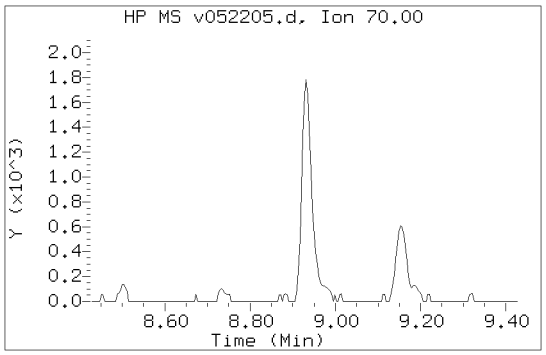
AFTER
MASS
43
AREA
9669
HEIGHT
4774
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



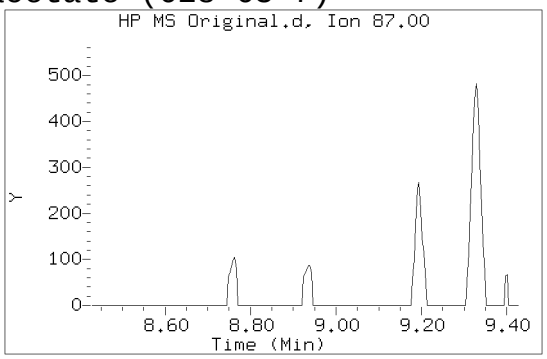
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

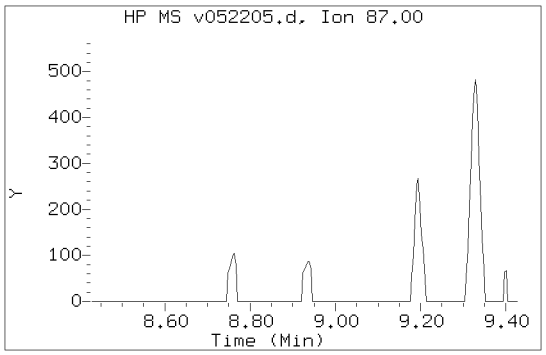
BEFORE

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

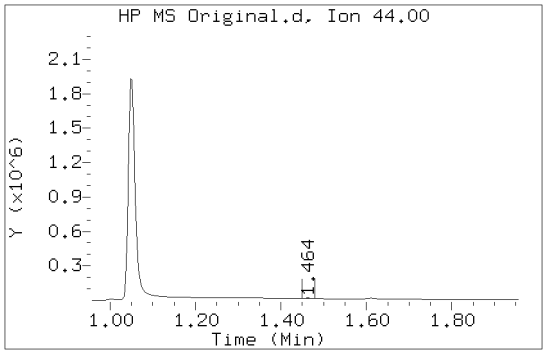


Acetaldehyde (75-07-0)

Reason Code:

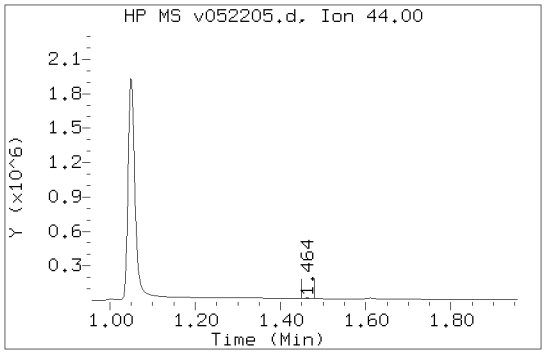
BEFORE

MASS
44
AREA
3129
HEIGHT
2964
23-May-2024
09:51
firat
tastan



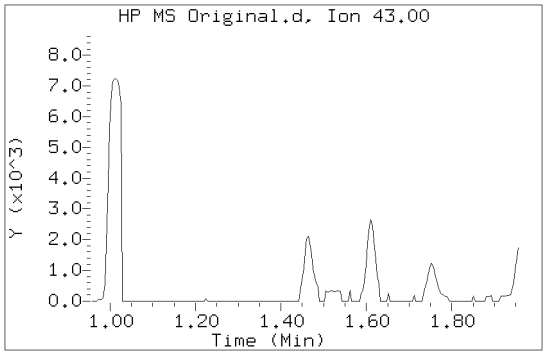
AFTER

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3129
HEIGHT
2964
23-May-2024
09:51
firat
tastan



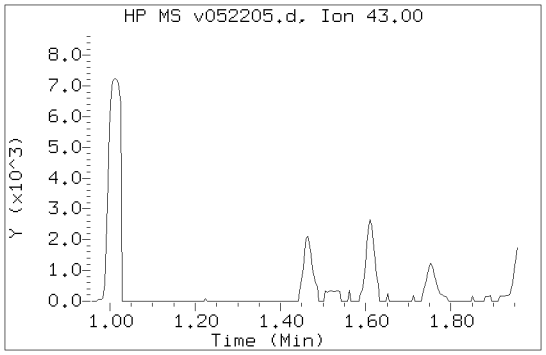
BEFORE

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23-May-2024
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firat
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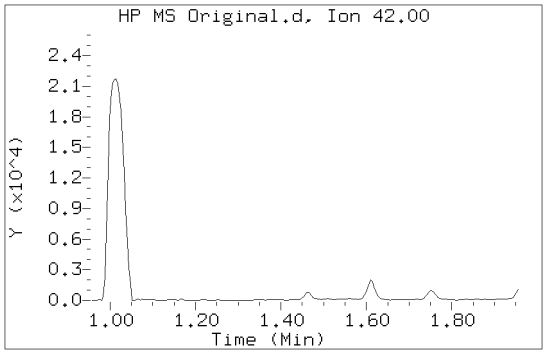
AFTER

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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



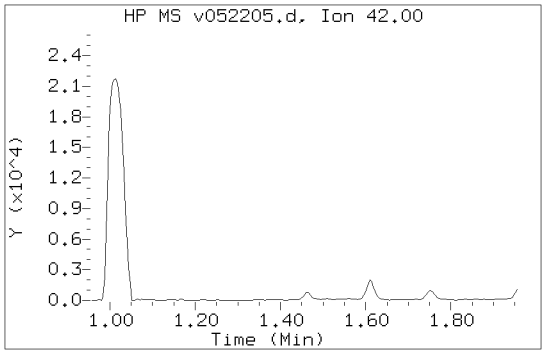
BEFORE

MASS
42
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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42
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

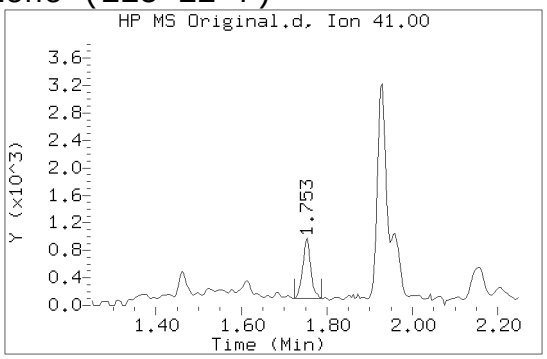


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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

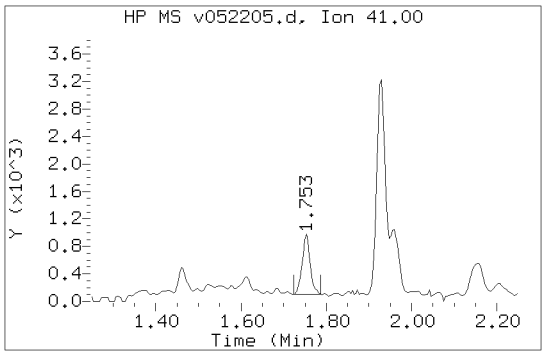
Isobutylene (115-11-7)

Reason Code:

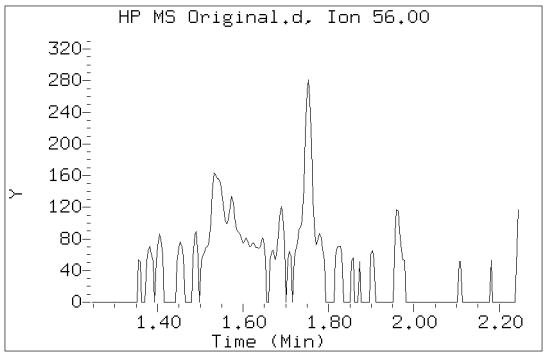
BEFORE
MASS
41
AREA
1170
HEIGHT
882
23-May-2024
09:51
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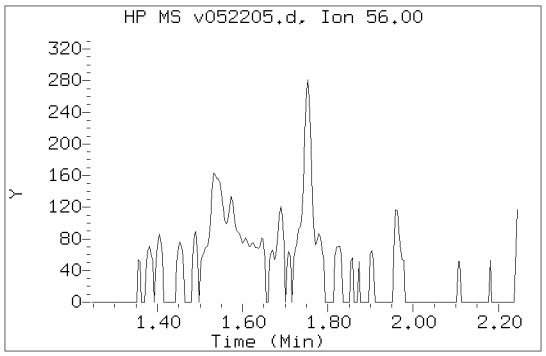
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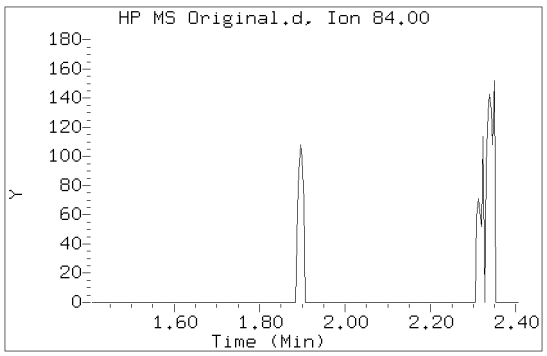
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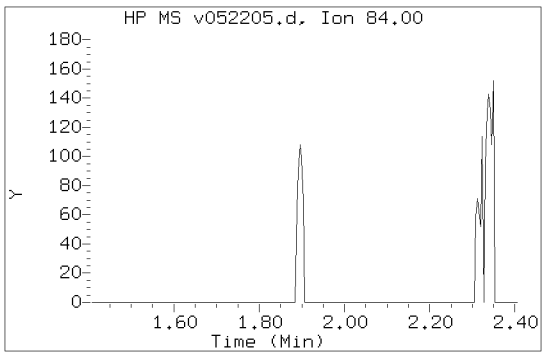
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D
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Inj Date : 22-MAY-2024 21:48
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:27 Cal File: V052205.D
Als bottle: 33 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.811	4.811	(1.000)	245120	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	6317	5.00000	4.83(M)
3 Chloromethane	50	1.291	1.291	(0.268)	27986	5.00000	3.67
4 Propionitrile	54	4.339	4.339	(0.902)	13197	50.0000	42.61(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	10412	5.00000	4.69
6 Bromomethane	94	1.614	1.614	(0.335)	4737	5.00000	3.90
7 Chloroethane	64	1.696	1.696	(0.353)	7423	5.00000	4.84
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	12316	5.00000	4.86
9 Acrolein	56	2.262	2.262	(0.470)	1345	10.0000	10.54(a)
10 Acetone	43	2.405	2.405	(0.500)	9344	10.0000	10.56
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	7259	5.00000	4.70
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	23835	100.000	80.57(a)
13 Acetonitrile	39	2.663	2.663	(0.554)	8759	50.0000	43.26(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	23141	5.00000	4.44(a)
15 Iodomethane	142	2.461	2.461	(0.512)	2870	10.0000	6.24(T)
16 Acrylonitrile	53	3.061	3.061	(0.636)	6737	10.0000	8.67
17 Methylene Chloride	84	2.791	2.791	(0.580)	12092	5.00000	3.98
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	21791	5.00000	4.43
19 Carbon Disulfide	76	2.513	2.513	(0.522)	40927	10.0000	8.76
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	8073	5.00000	4.56

21 Vinyl Acetate	43	4.339	4.339 (0.902)	9530	10.0000	7.86(M)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	15610	5.00000	4.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	12743	5.00000	4.71(aM)
	24 2-Butanone	43	4.268	4.268	(0.887)	9381	10.0000	8.21
	25 Methacrylonitrile	41	4.496	4.496	(0.935)	4723	5.00000	3.66(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	8821	5.00000	4.07
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	9483	5.00000	4.46
	28 Chloroform	83	4.568	4.568	(0.949)	15738	5.00000	4.45
	29 Bromochloromethane	128	4.466	4.466	(0.928)	4773	5.00000	4.56
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	8395	5.00000	4.71
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	11202	5.00000	4.53
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	11619	5.00000	4.52
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	12613	5.00000	4.42
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	8623	5.00000	4.13
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	11168	5.00000	4.99
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363477	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	35983	5.00000	4.33
	38 Trichloroethene	130	5.786	5.786	(1.043)	9366	5.00000	4.64(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	8991	5.00000	4.06(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	3018	5.00000	3.93(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	5466	10.0000	7.73
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	9626	5.00000	4.18(a)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	1500	5.00000	3.56(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	5783	5.00000	4.61(a)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	18552	10.0000	8.26
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	9538	5.00000	3.73(a)
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	325286	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	32218	5.00000	4.87(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	11035	5.00000	4.11(aM)
	50 Toluene	91	6.978	6.978	(0.853)	36895	5.00000	4.48(a)
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	7333	5.00000	3.68(a)
	52 2-Hexanone	43	7.593	7.593	(0.928)	12230	10.0000	8.13
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	7348	5.00000	4.52(a)
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	14915	5.00000	4.36(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	5962	5.00000	3.73(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	7207	5.00000	4.65(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7387	5.00000	4.24(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	10145	5.00000	3.48(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	25267	5.00000	4.51(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7033	5.00000	4.14(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	11835	5.00000	4.49(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	27975	10.0000	8.64(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	13646	5.00000	4.30(a)
	64 Styrene	104	8.762	8.762	(1.071)	23698	5.00000	4.41(a)
	66 Bromoform	173	8.916	8.916	(1.090)	3641	5.00000	3.66(Ta)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	34220	5.00000	4.35(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	11307	5.00000	4.24(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	12392	5.00000	4.91(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173523	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	10722	5.00000	4.03(a)
	72 trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	2495	5.00000	4.29(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	38778	5.00000	4.32(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	10442	5.00000	4.57(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	25668	5.00000	4.15(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	25762	5.00000	4.43(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	28612	5.00000	4.32(a)

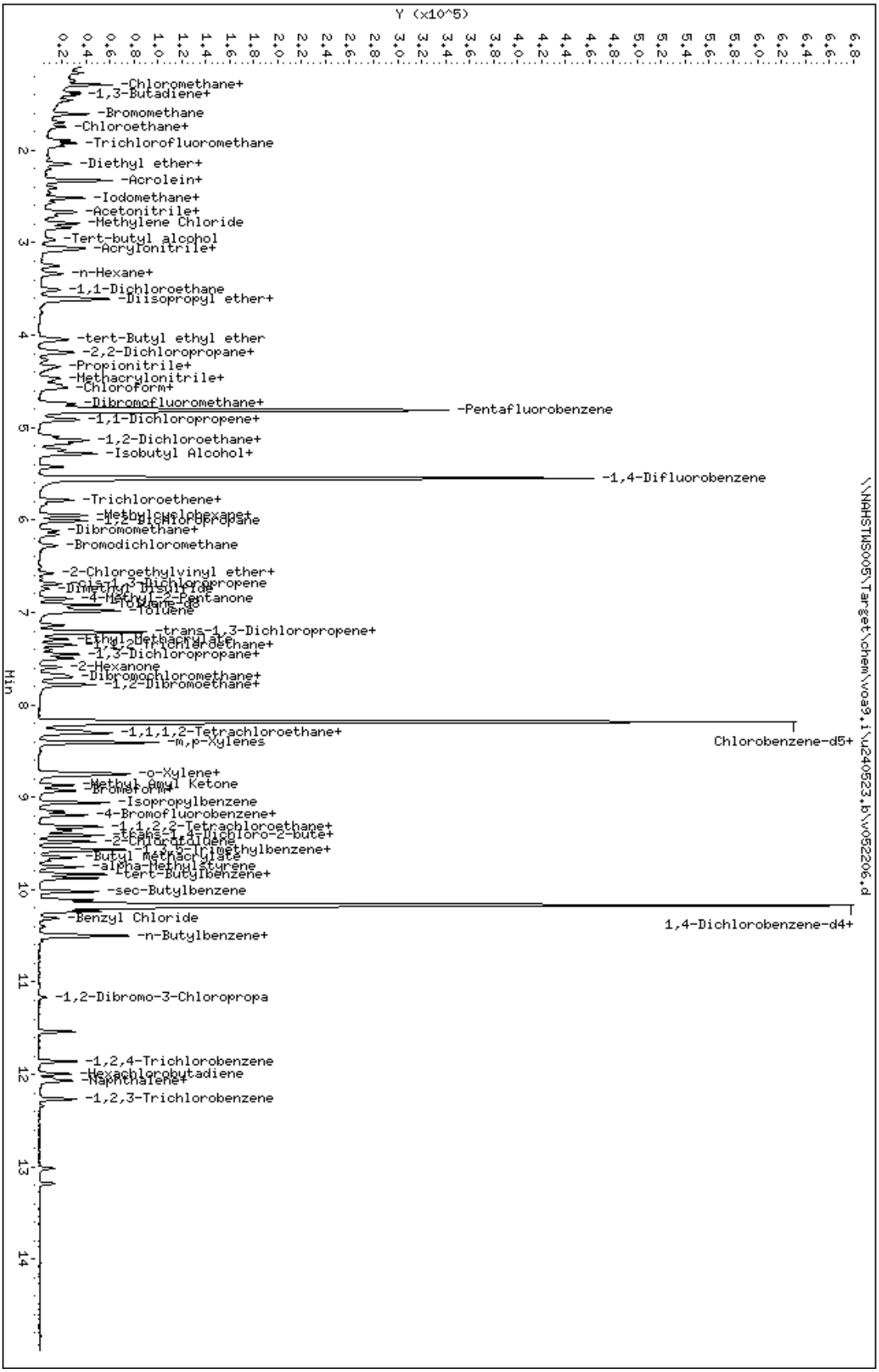
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	23621	5.00000	4.35(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25634	5.00000	4.04(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	31236	5.00000	4.33(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	26510	5.00000	4.22(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	17996	5.00000	4.38(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	19669	5.00000	4.29(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	10330	5.00000	2.90(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	24166	5.00000	3.96(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17994	5.00000	4.33(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1114	5.00000	3.79(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10292	5.00000	3.95(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	4784	5.00000	4.17(a)
92	Naphthalene	128	12.069	12.069	(1.187)	20220	5.00000	3.65(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	9782	5.00000	4.03(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	11741	5.00000	4.80(a)
138	Freon TF	101	2.330	2.330	(0.484)	13429	5.00000	5.08
141	Cyclohexane	56	4.778	4.778	(0.993)	16026	5.00000	3.60(a)
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	3112	10.0000	6.70
147	Methylcyclohexane	55	5.947	5.947	(1.072)	19782	5.00000	4.53(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	2038	100.000	73.42
132	n-Butanol	56	5.827	5.827	(1.211)	3558	100.000	77.06(a)
136	n-Hexane	57	3.334	3.334	(0.693)	8824	5.00000	4.60(a)
139	Diethyl ether	59	2.139	2.139	(0.445)	6208	5.00000	4.57(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	12384	100.000	84.94
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	9227	100.000	78.52(T)
152	Amyl alcohol	42	7.402	7.402	(0.905)	4202	100.000	73.64
156	Diisopropyl ether	45	3.619	3.619	(0.752)	28630	5.00000	4.45(Ta)
162	Butyl acrylate	55	8.732	8.732	(1.067)	14069	5.00000	4.08(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	15463	5.00000	4.20(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39000	5.00000	4.34(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	25410	5.00000	4.31(a)
167	Ethanol	45	2.082	2.082	(0.433)	2037	100.000	84.94
172	tert-Butyl formate	59	5.239	5.239	(1.089)	12331	10.0000	8.73(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	17497	100.000	81.38(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	24148	5.00000	4.45(a)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	23682	5.00000	4.34(a)
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	11797	100.000	83.98
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	42496	100.000	78.18
140	1,3-Butadiene	54	1.400	1.400	(0.291)	4494	5.00000	4.64(a)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	2190	20.0000	16.55(M)
M 94	1,2-Dichloroethylene (total)	96				17556	10.0000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	9900	5.00000	4.13(a)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	9474	5.00000	4.03(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	13508	5.00000	4.02(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	8573	100.000	85.45(a)
185	Isoprene	39	2.154	2.154	(0.448)	2160	5.00000	5.18(M)
188	Isopropyl acetate	43	5.280	5.280	(0.951)	23835	5.00000	3.91(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	8824	100.000	92.07
194	Acetaldehyde	44	1.456	1.456	(0.303)	5839	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.084)	17607	5.00000	4.31(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	3121	5.00000	3.03(a)
202	Isobutylene	41	1.745	1.745	(0.363)	3060	5.00000	5.46(M)

133 Ethyl Acrylate	55	5.947	5.947 (1.236)	19782	5.00000	4.57(a)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	10657	5.00000	4.51(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.198	2.198	(0.457)	1170	10.0000	6.31
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4851	5.00000	2.87(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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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

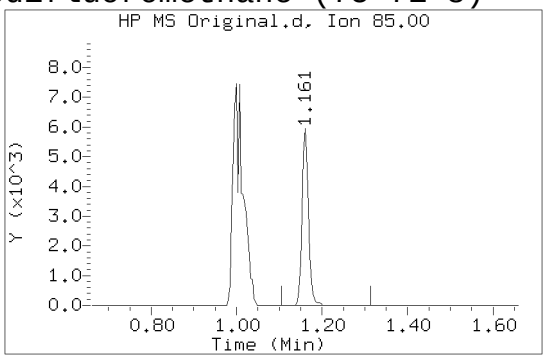
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LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

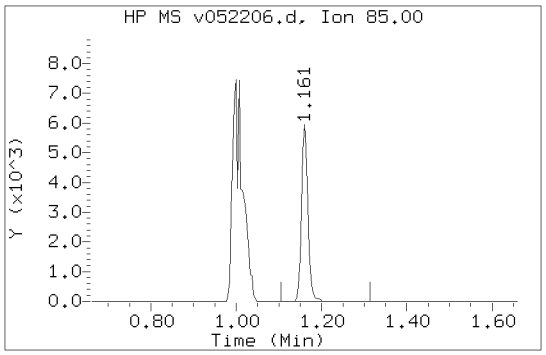
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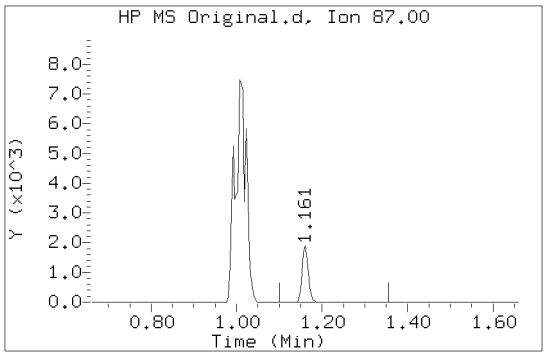
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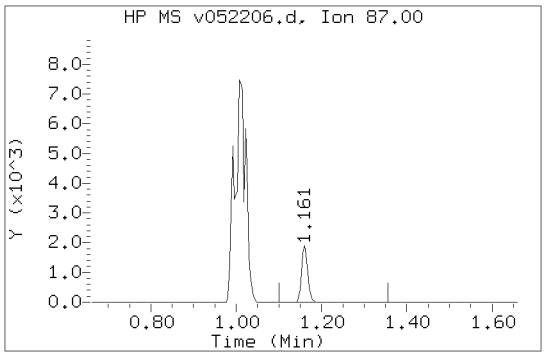
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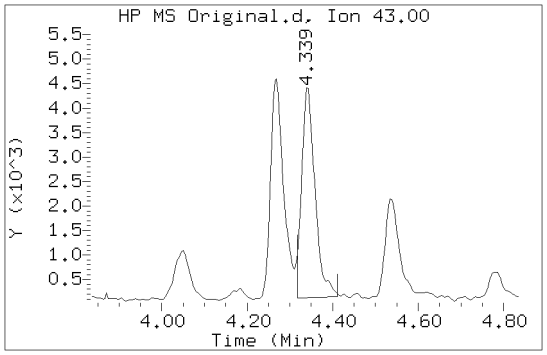


Vinyl Acetate (108-05-4)

Reason Code:

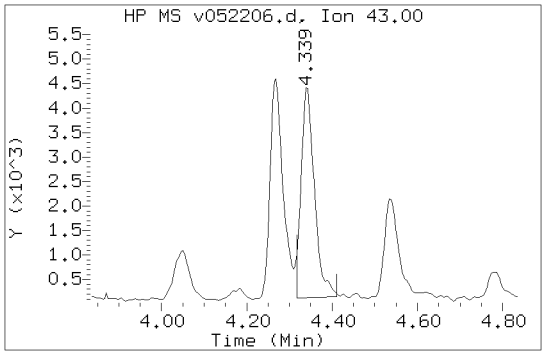
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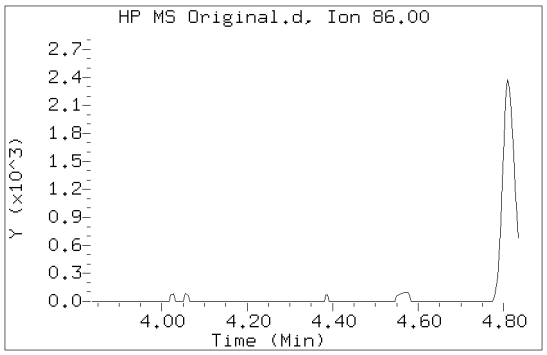
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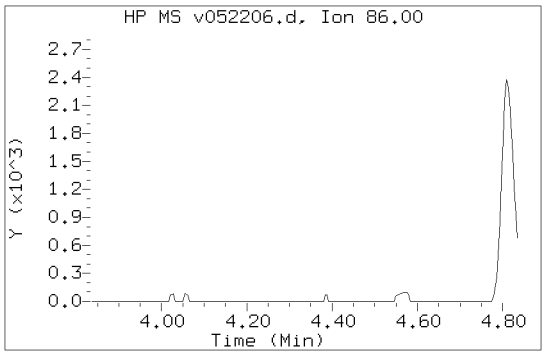
BEFORE

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86
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0
23-May-2024
09:51
firat
tastan



AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



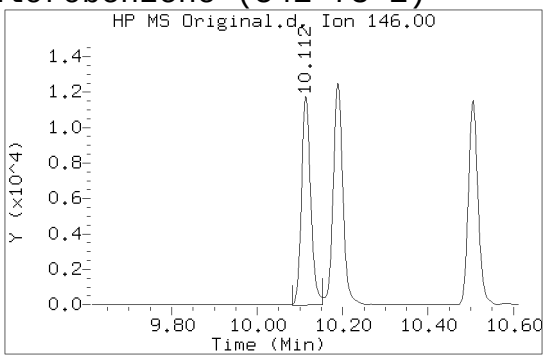
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

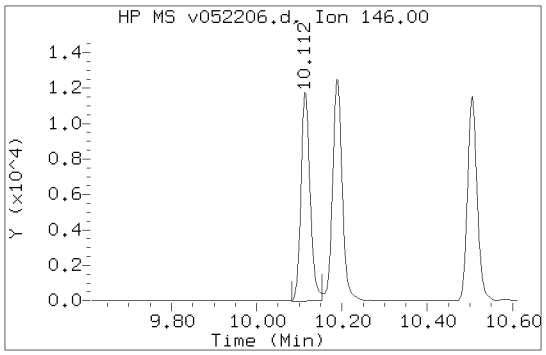
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146
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17996
HEIGHT
11777
23-May-2024
09:51
firat
tastan



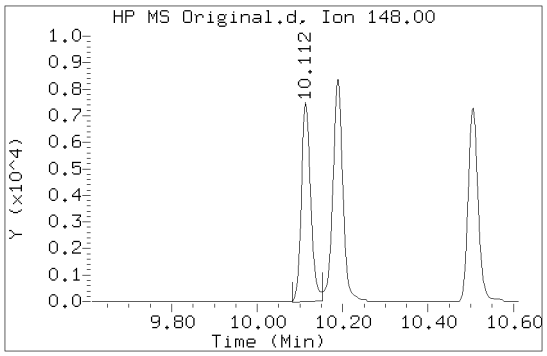
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23-May-2024
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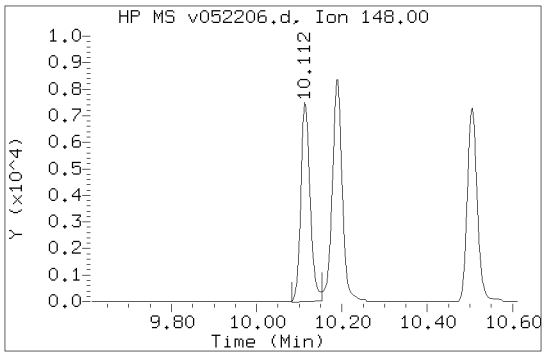
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148
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HEIGHT
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23-May-2024
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firat
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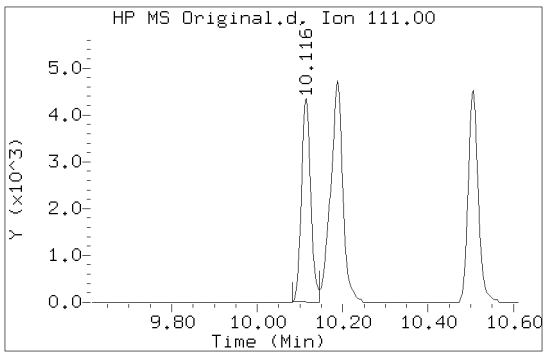
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23-May-2024
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firat
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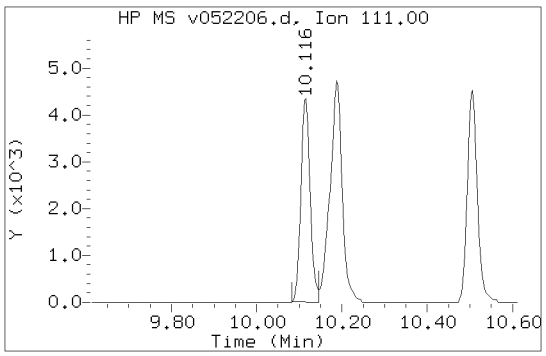
BEFORE

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6722
HEIGHT
4345
23-May-2024
09:51
firat
tastan



AFTER

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AREA
6722
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4345
23-May-2024
09:51
firat
tastan

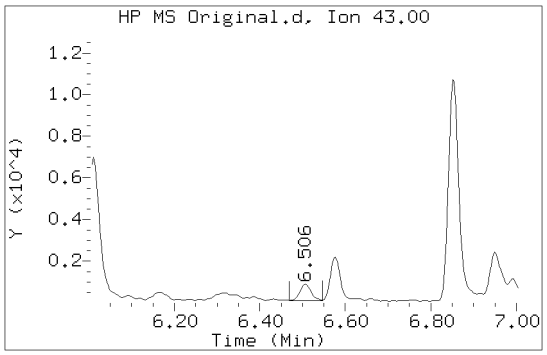


2-Nitropropane (79-46-9)

Reason Code:

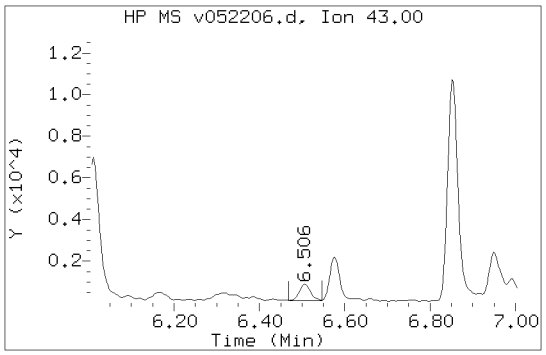
BEFORE

MASS
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AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
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AFTER

MASS
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AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
tastan



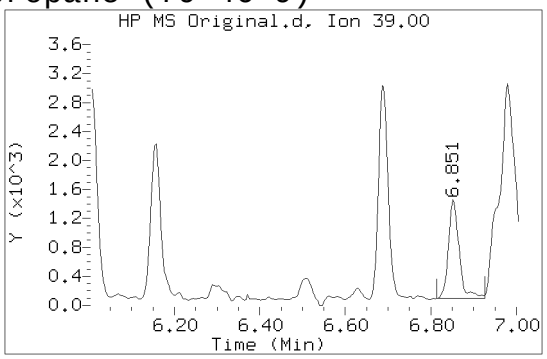
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

2-Nitropropane (79-46-9)

Reason Code:

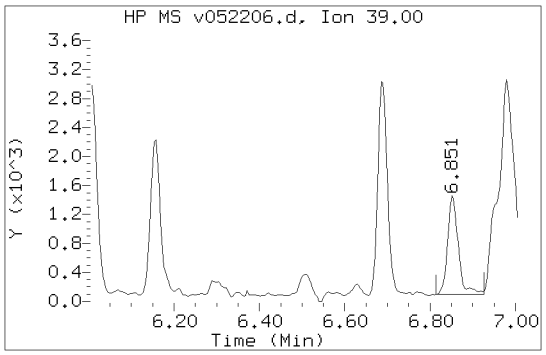
BEFORE

MASS
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AREA
2394
HEIGHT
1364
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
2394
HEIGHT
1364
23-May-2024
09:51
firat
tastan

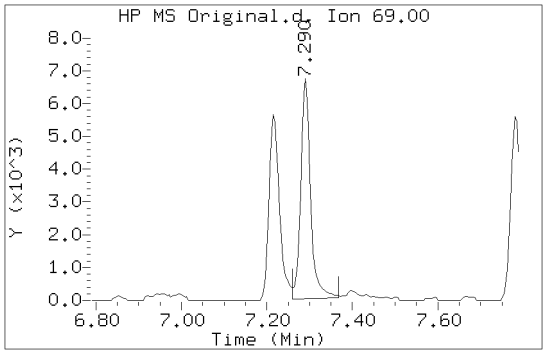


Ethyl Methacrylate (97-63-2)

Reason Code:

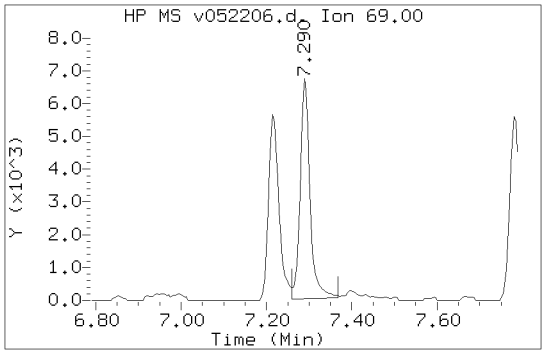
BEFORE

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69
AREA
11035
HEIGHT
6715
23-May-2024
09:51
firat
tastan



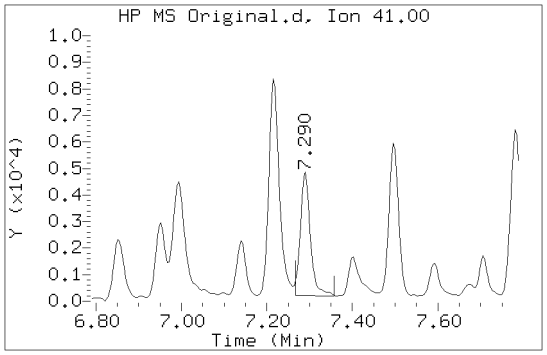
AFTER

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69
AREA
11035
HEIGHT
6715
23-May-2024
09:51
firat
tastan



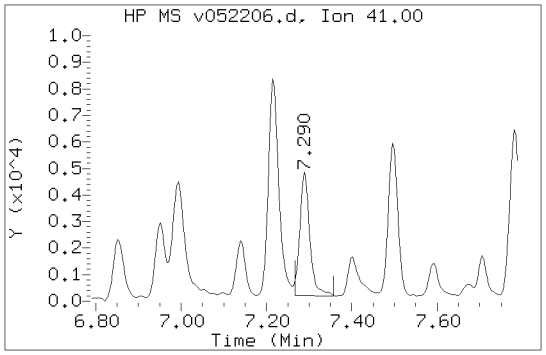
BEFORE

MASS
41
AREA
7774
HEIGHT
4657
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
7774
HEIGHT
4657
23-May-2024
09:51
firat
tastan

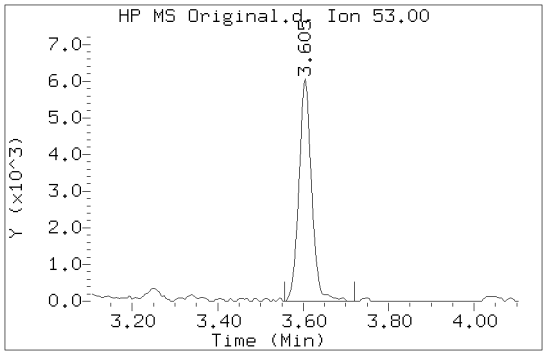


Chloroprene (126-99-8)

Reason Code:

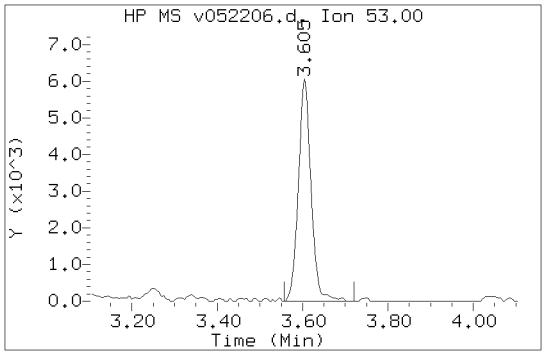
BEFORE

MASS
53
AREA
12743
HEIGHT
6062
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
12743
HEIGHT
6062
23-May-2024
09:51
firat
tastan



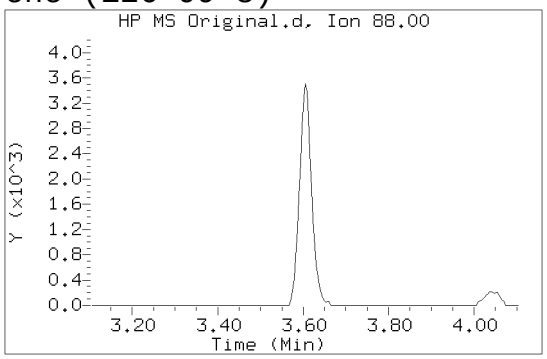
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Chloroprene (126-99-8)

Reason Code:

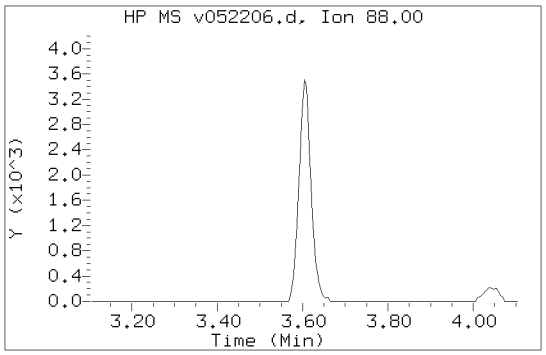
BEFORE

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88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan

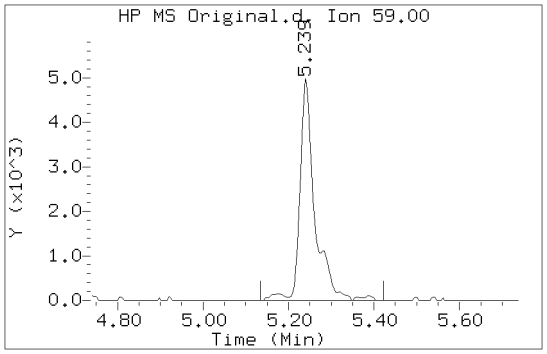


tert-Butyl formate (762-75-4)

Reason Code:

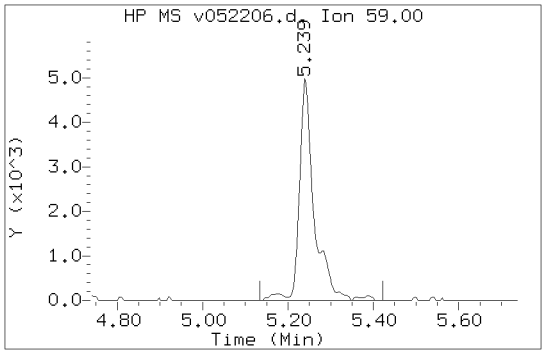
BEFORE

MASS
59
AREA
12331
HEIGHT
4979
23-May-2024
09:51
firat
tastan



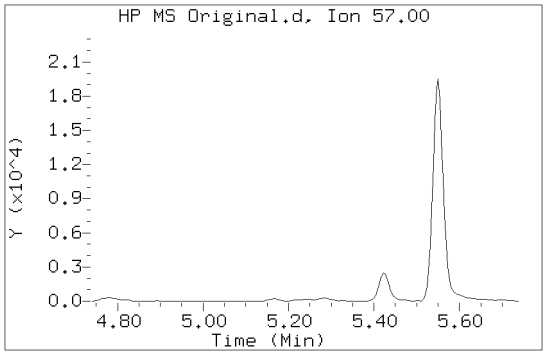
AFTER

MASS
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HEIGHT
4979
23-May-2024
09:51
firat
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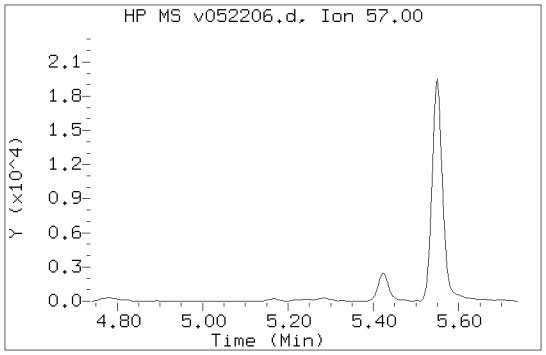
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23-May-2024
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firat
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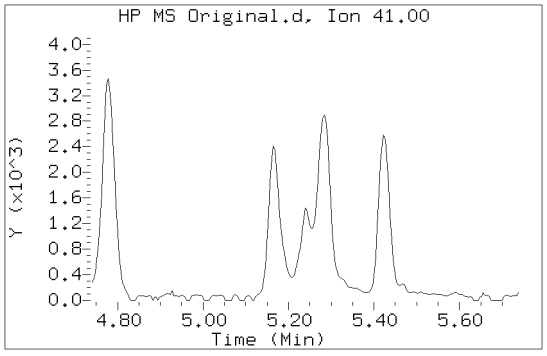
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HEIGHT
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firat
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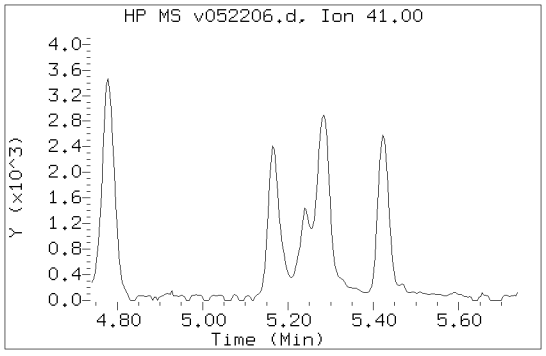
BEFORE

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HEIGHT
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23-May-2024
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AFTER

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09:51
firat
tastan

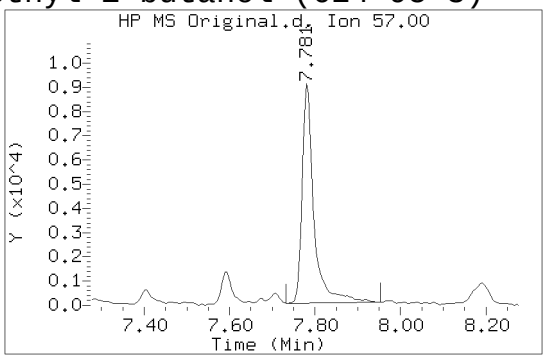


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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

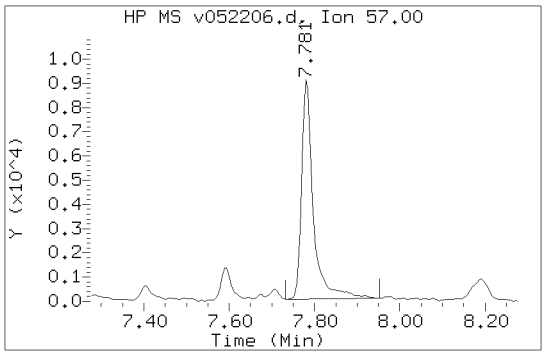
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

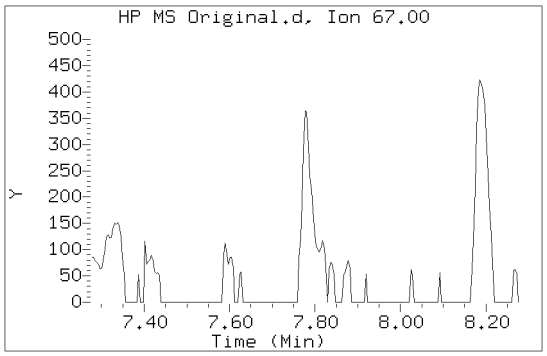
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HEIGHT
9058
23-May-2024
09:51
firat
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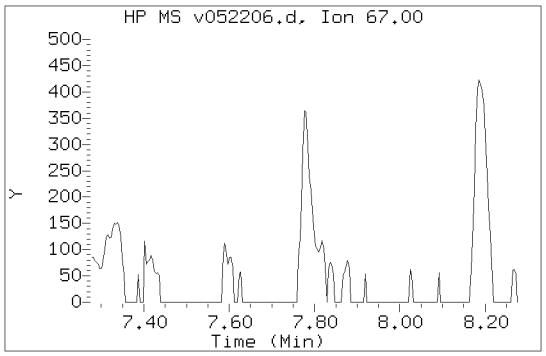
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23-May-2024
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firat
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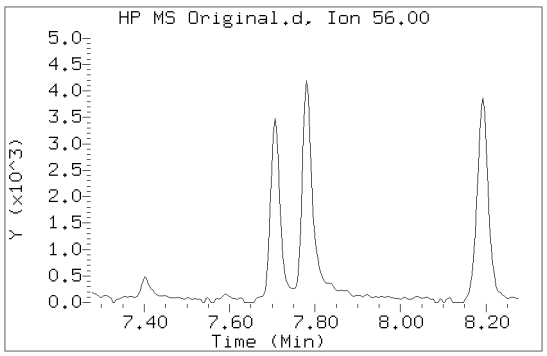
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HEIGHT
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23-May-2024
09:51
firat
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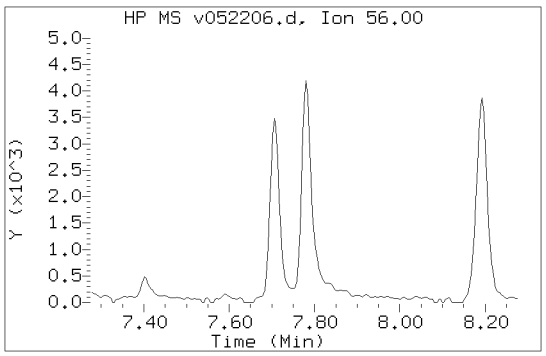
AFTER
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67
AREA
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HEIGHT
0
23-May-2024
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BEFORE
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56
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0
HEIGHT
0
23-May-2024
09:51
firat
tastan



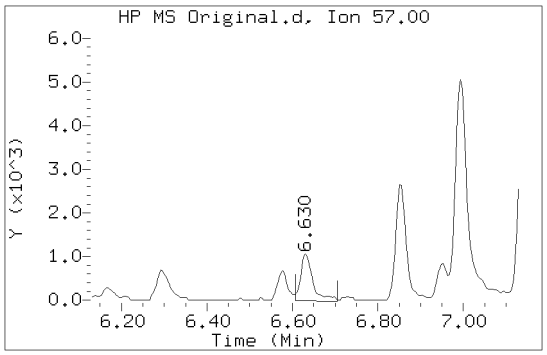
AFTER
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HEIGHT
0
23-May-2024
09:51
firat
tastan



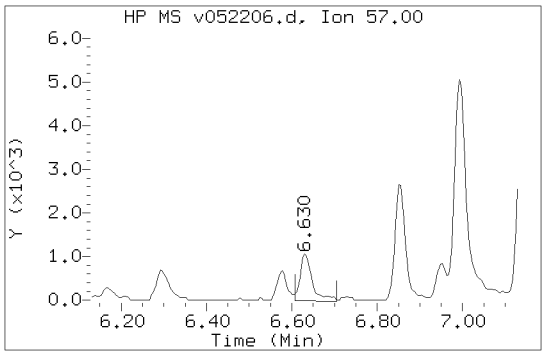
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
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AREA
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HEIGHT
1076
23-May-2024
09:51
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tastan



AFTER
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AREA
2190
HEIGHT
1076
23-May-2024
09:51
firat
tastan



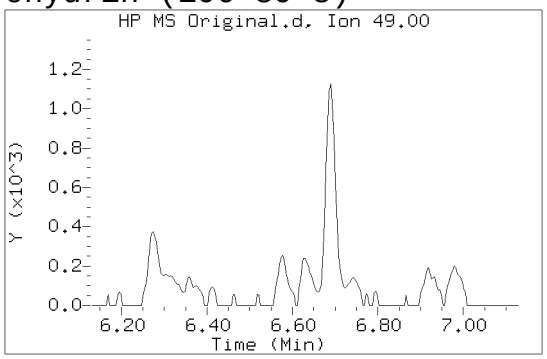
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

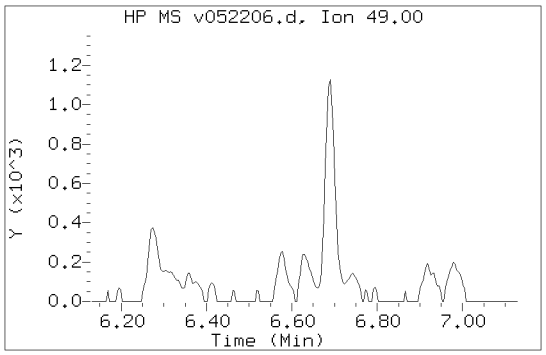
BEFORE

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AREA
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HEIGHT
0
23-May-2024
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tastan



AFTER

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49
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

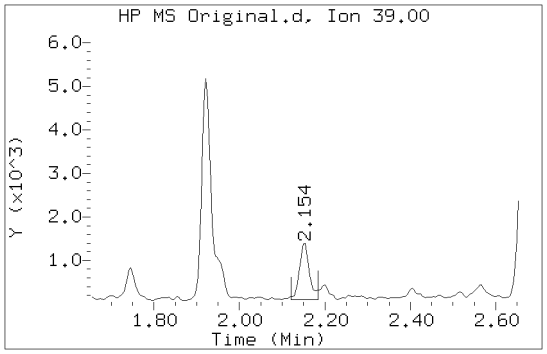


Isoprene (78-79-5)

Reason Code:

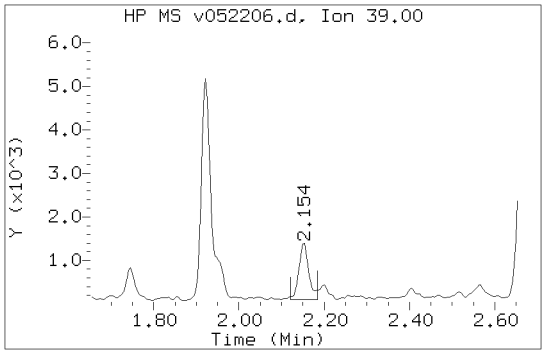
BEFORE

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HEIGHT
1287
23-May-2024
09:51
firat
tastan



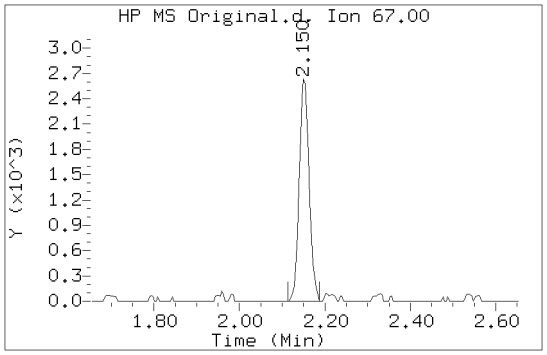
AFTER

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1287
23-May-2024
09:51
firat
tastan



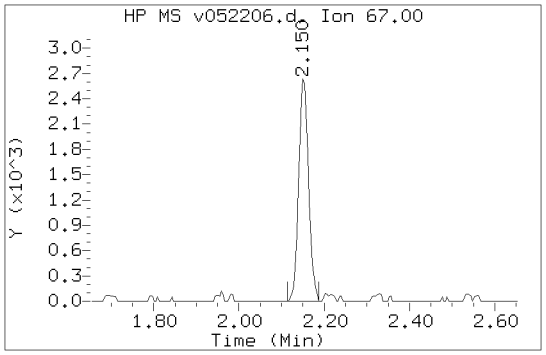
BEFORE

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AREA
4343
HEIGHT
2635
23-May-2024
09:51
firat
tastan



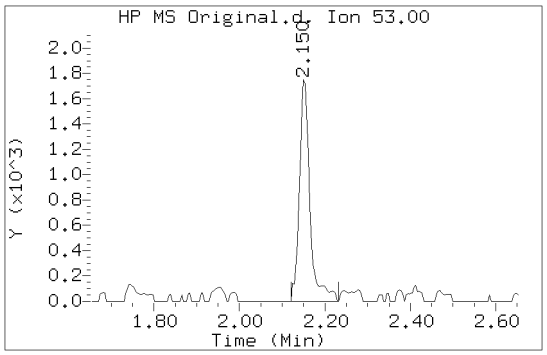
AFTER

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AREA
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HEIGHT
2635
23-May-2024
09:51
firat
tastan



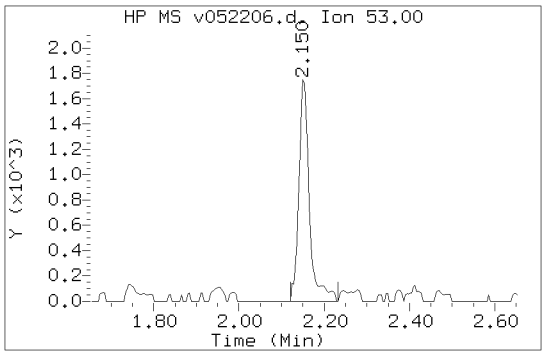
BEFORE

MASS
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AREA
3074
HEIGHT
1750
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
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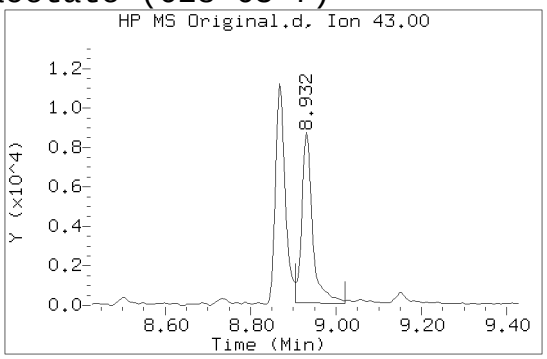
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LabSampID : VSTD005

n-Amyl acetate (628-63-7)

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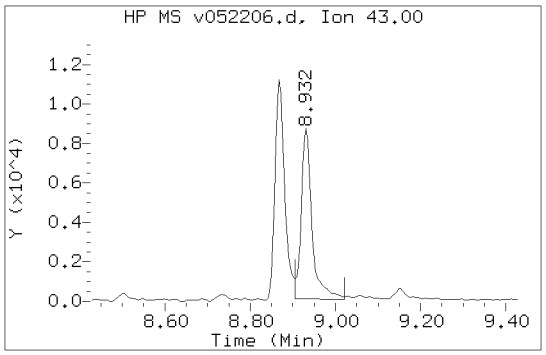
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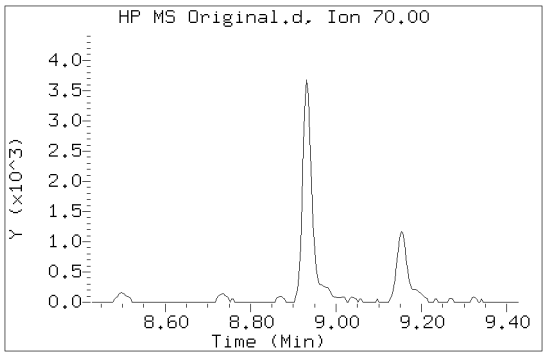
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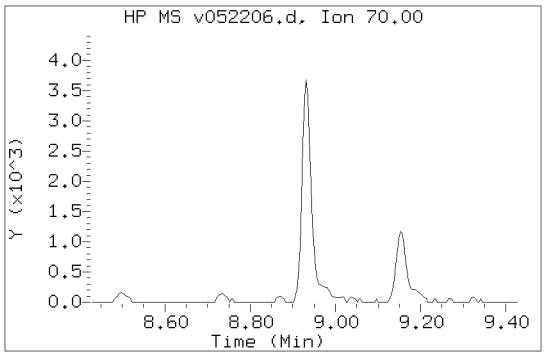
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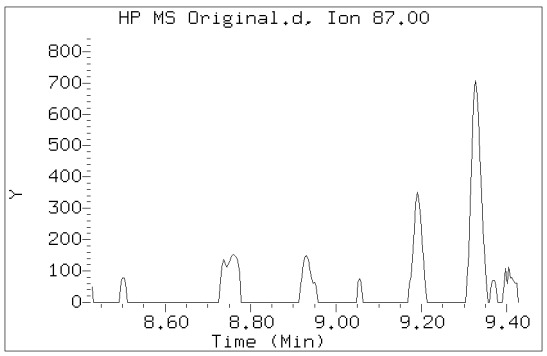
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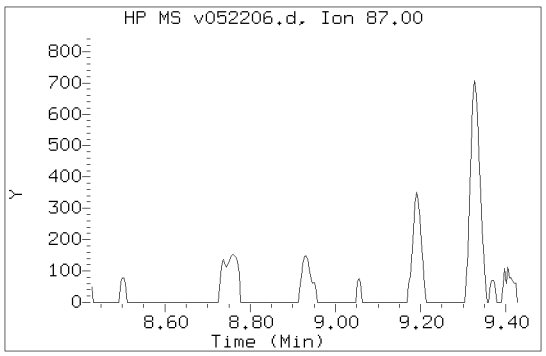
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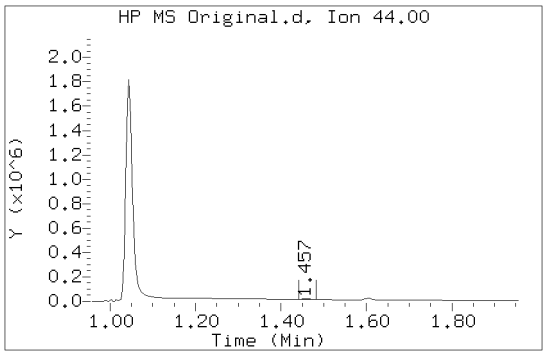


Acetaldehyde (75-07-0)

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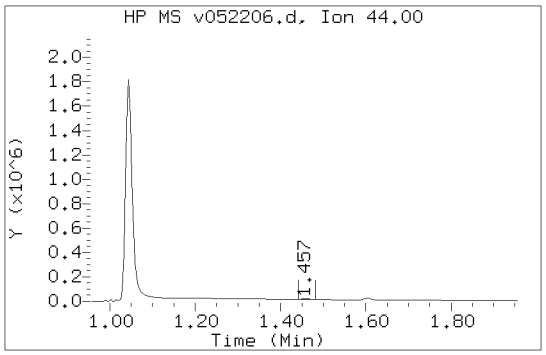
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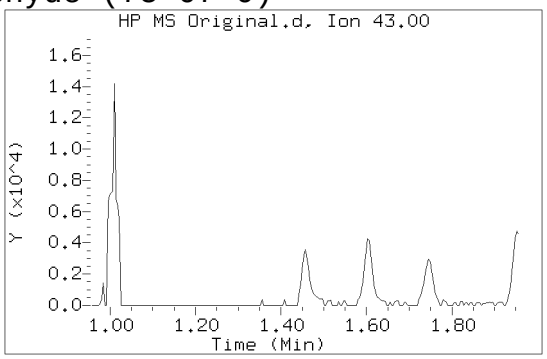
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LabSampID : VSTD005

Acetaldehyde (75-07-0)

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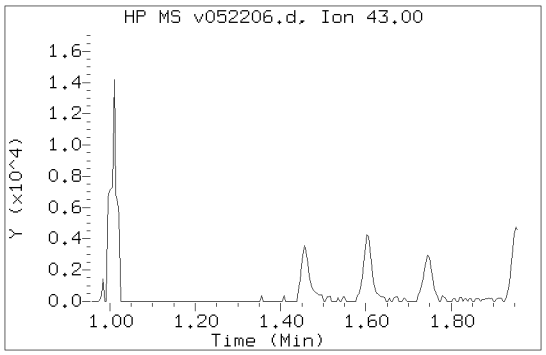
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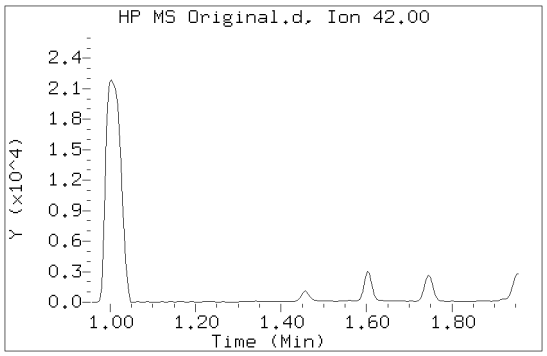
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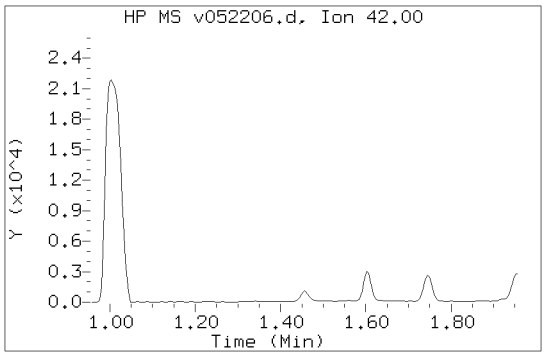
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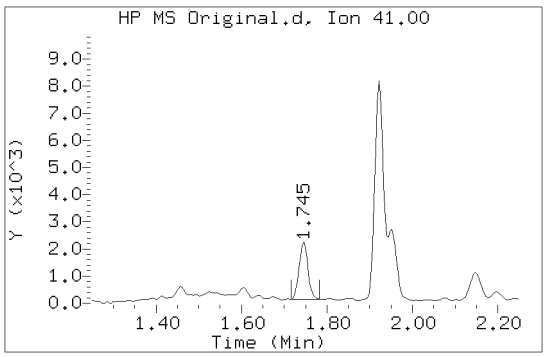


Isobutylene (115-11-7)

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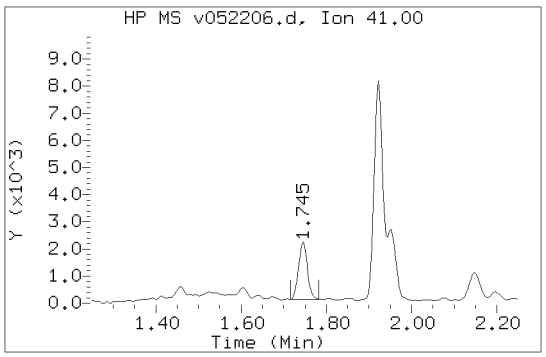
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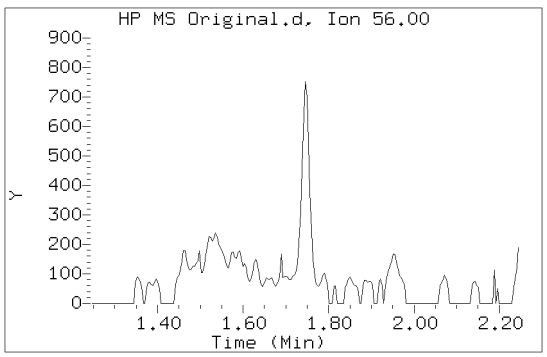
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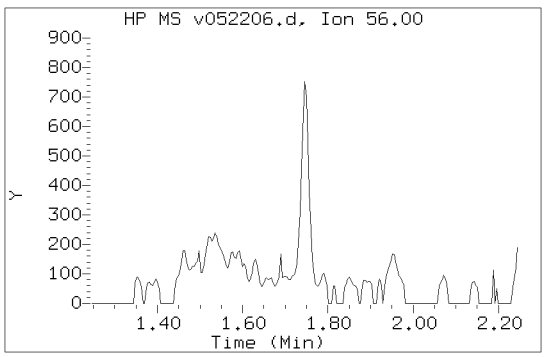
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23-May-2024
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AFTER

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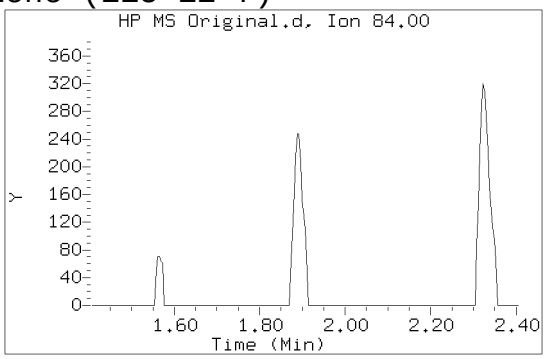
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LabSampID : VSTD005

Isobutylene (115-11-7)

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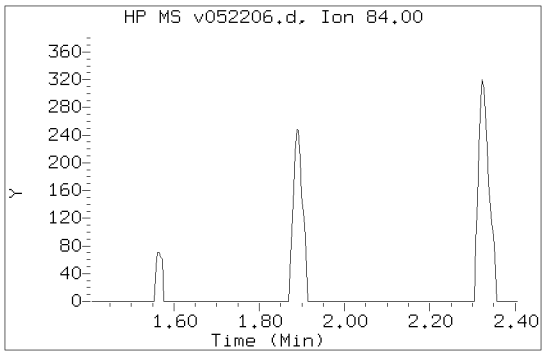
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AFTER

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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D
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Als bottle: 34 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.812	4.812	(1.000)	237051	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	25670	20.0000	20.29(M)
3 Chloromethane	50	1.295	1.295	(0.269)	92896	20.0000	12.62
4 Propionitrile	54	4.335	4.335	(0.901)	53459	200.000	178.48(a)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	41938	20.0000	19.53
6 Bromomethane	94	1.618	1.618	(0.336)	14446	20.0000	12.30
7 Chloroethane	64	1.696	1.696	(0.353)	29580	20.0000	19.94
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	51124	20.0000	20.86
9 Acrolein	56	2.262	2.262	(0.470)	3650	40.0000	29.59
10 Acetone	43	2.409	2.409	(0.501)	29961	40.0000	35.01
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	29118	20.0000	19.51
12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	100941	400.000	352.84(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	35775	200.000	182.72(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	88098	20.0000	17.47(a)
15 Iodomethane	142	2.461	2.461	(0.512)	8911	40.0000	20.04
16 Acrylonitrile	53	3.065	3.065	(0.637)	26132	40.0000	34.81
17 Methylene Chloride	84	2.795	2.795	(0.581)	38922	20.0000	13.27
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	83654	20.0000	17.59
19 Carbon Disulfide	76	2.517	2.517	(0.523)	173430	40.0000	38.41
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32224	20.0000	18.84

21 Vinyl Acetate	43	4.339	4.339 (0.902)	40971	40.0000	34.95
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	61717	20.0000	18.16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	50213	20.0000	19.21(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	38584	40.0000	34.92
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	20676	20.0000	16.56(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	39638	20.0000	18.95
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	39020	20.0000	19.01
	28 Chloroform	83	4.572	4.572	(0.950)	63122	20.0000	18.49
	29 Bromochloromethane	128	4.467	4.467	(0.928)	18597	20.0000	18.39
$	30 Dibromofluoromethane	113	4.748	4.748	(0.987)	33492	20.0000	19.45
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	48058	20.0000	20.11
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	46989	20.0000	19.12
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	50147	20.0000	18.37
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	38147	20.0000	19.10
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	41399	20.0000	19.14
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	347932	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	145783	20.0000	18.34
	38 Trichloroethene	130	5.786	5.786	(1.043)	36804	20.0000	19.08
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	40015	20.0000	18.88
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	11958	20.0000	16.13(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25169	40.0000	37.20
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39815	20.0000	18.06
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6840	20.0000	16.81(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	22877	20.0000	19.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	80664	40.0000	37.23
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46281	20.0000	18.94
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	314018	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	123251	20.0000	19.32
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	46429	20.0000	18.08(aM)
	50 Toluene	91	6.978	6.978	(0.853)	153438	20.0000	19.33
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	36762	20.0000	19.28
	52 2-Hexanone	43	7.589	7.589	(0.928)	51129	40.0000	35.24
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	29346	20.0000	18.72
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	61013	20.0000	18.51
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	29397	20.0000	19.10
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	29963	20.0000	20.02
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	32376	20.0000	19.27
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	31204	20.0000	11.19
	59 Chlorobenzene	112	8.208	8.208	(1.003)	97577	20.0000	18.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31195	20.0000	19.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	48129	20.0000	18.92
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	122657	40.0000	39.26
	63 o-Xylene	106	8.744	8.744	(1.069)	59411	20.0000	19.43
	64 Styrene	104	8.759	8.759	(1.071)	102416	20.0000	19.74
	66 Bromoform	173	8.916	8.916	(1.090)	17174	20.0000	17.92
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	149702	20.0000	19.74
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47816	20.0000	18.32
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	46114	20.0000	18.94
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170035	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	46169	20.0000	17.73
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9783	20.0000	17.45(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	174297	20.0000	19.84
	74 Bromobenzene	156	9.314	9.314	(0.916)	41506	20.0000	18.56
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	120750	20.0000	19.92

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	106799	20.0000	18.76
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	123529	20.0000	19.06

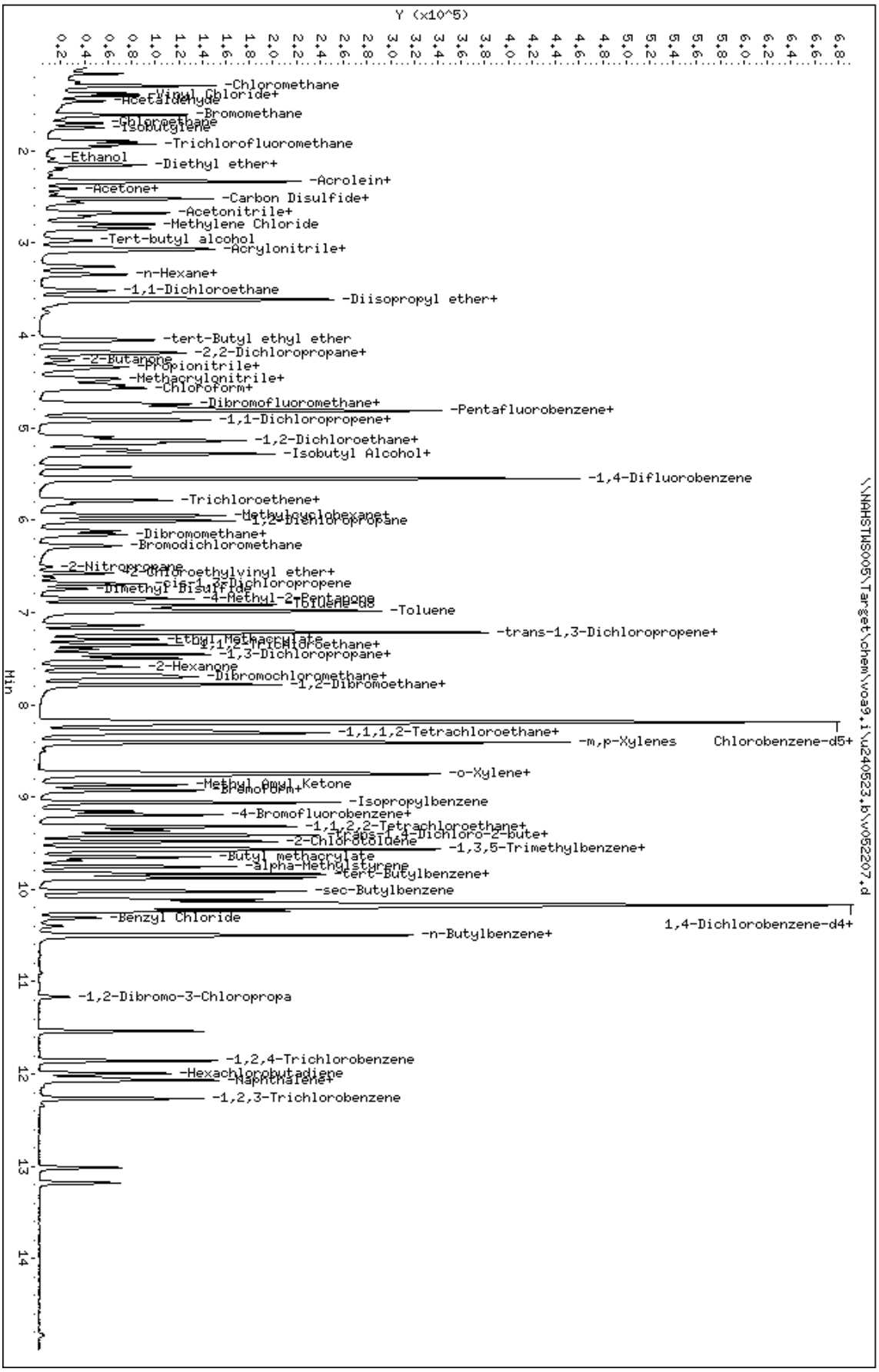
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	106932	20.0000	20.11
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	118805	20.0000	19.10
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	142054	20.0000	20.10
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	122382	20.0000	19.89
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	73922	20.0000	18.38(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	77028	20.0000	17.16
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34867	20.0000	10.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	109317	20.0000	18.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72010	20.0000	17.68
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	5037	20.0000	17.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	45971	20.0000	18.01
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	20767	20.0000	18.51
92	Naphthalene	128	12.065	12.065	(1.187)	103040	20.0000	19.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	43170	20.0000	18.16
146	Methyl acetate	43	2.712	2.712	(0.564)	40129	20.0000	16.98
138	Freon TF	101	2.334	2.334	(0.485)	53626	20.0000	21.00
141	Cyclohexane	56	4.782	4.782	(0.994)	56651	20.0000	13.18
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	14728	40.0000	32.80
147	Methylcyclohexane	55	5.944	5.944	(1.071)	80527	20.0000	19.27
135	1,4-Dioxane	88	6.169	6.169	(1.282)	6932	400.000	258.25(M)
132	n-Butanol	56	5.824	5.824	(1.210)	15565	400.000	348.61(a)
136	n-Hexane	57	3.338	3.338	(0.694)	35519	20.0000	19.16
139	Diethyl ether	59	2.142	2.142	(0.445)	23422	20.0000	17.83
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	47273	400.000	335.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	36513	400.000	321.31(T)
152	Amyl alcohol	42	7.398	7.398	(0.904)	17278	400.000	313.67
156	Diisopropyl ether	45	3.619	3.619	(0.752)	111300	20.0000	17.89(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	56775	20.0000	17.09
187	n-Amyl acetate	43	8.928	8.928	(1.091)	63254	20.0000	17.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	147876	20.0000	16.79
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	109398	20.0000	18.97
167	Ethanol	45	2.083	2.083	(0.433)	7268	400.000	313.39
172	tert-Butyl formate	59	5.239	5.239	(1.089)	47935	40.0000	35.11
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	74287	400.000	357.94
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	97788	20.0000	18.65
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	93982	20.0000	17.83
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	47935	400.000	352.85
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	197066	400.000	378.76
140	1,3-Butadiene	54	1.400	1.400	(0.291)	19106	20.0000	20.39
182	Epichlorohydrin	57	6.630	6.630	(1.195)	9275	80.0000	73.24
M 94	1,2-Dichloroethylene (total)	96				71244	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46445	20.0000	18.64
130	Ethyl Acetate	43	4.339	4.339	(0.902)	40345	20.0000	17.44
131	Methyl Acrylate	55	4.369	4.369	(0.908)	41236	20.0000	18.15
189	n-Butyl acetate	43	7.702	7.702	(0.941)	58533	20.0000	18.07
134	Cyclohexanone	55	9.153	9.153	(0.900)	32764	400.000	333.30(a)
185	Isoprene	39	2.154	2.154	(0.448)	8497	20.0000	21.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	101323	20.0000	17.38
150	Allyl alcohol	57	3.338	3.338	(0.694)	35519	400.000	383.22
194	Acetaldehyde	44	1.460	1.460	(0.304)	25470	80.0000	79.71(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	71357	20.0000	18.12
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	15182	20.0000	15.30

202 Isobutylene	41	1.749	1.749 (0.364)	11735	20.0000	21.65(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	80527	20.0000	19.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43896	20.0000	18.97
159 Propylene oxide	43	2.199	2.199	(0.457)	5236	40.0000	29.20
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25358	20.0000	15.35

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: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

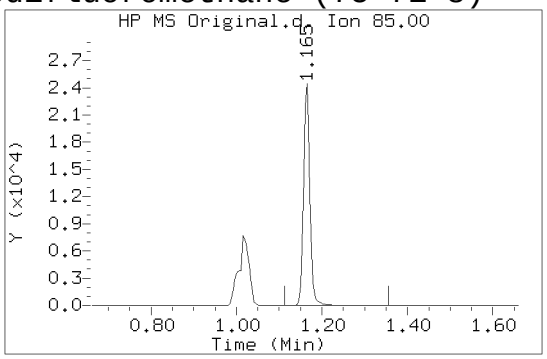
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LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

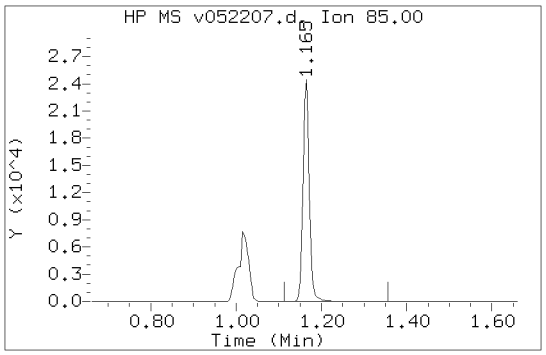
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09:51
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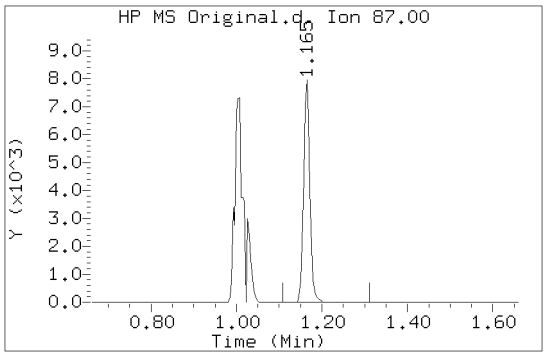
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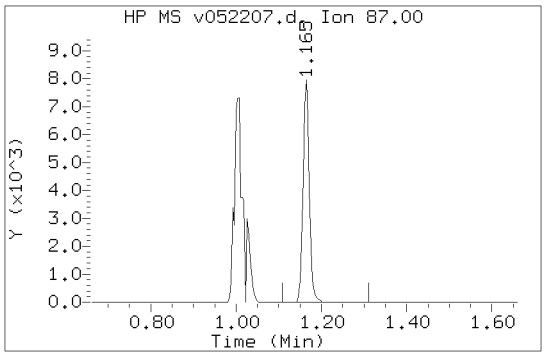
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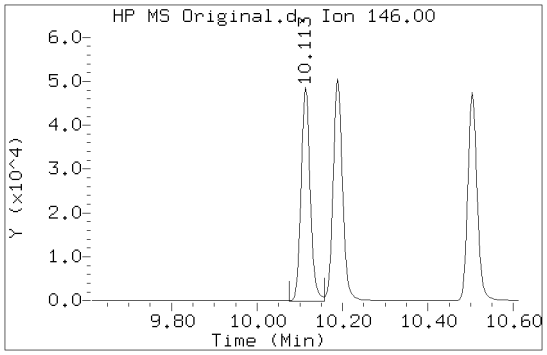


1,3-Dichlorobenzene (541-73-1)

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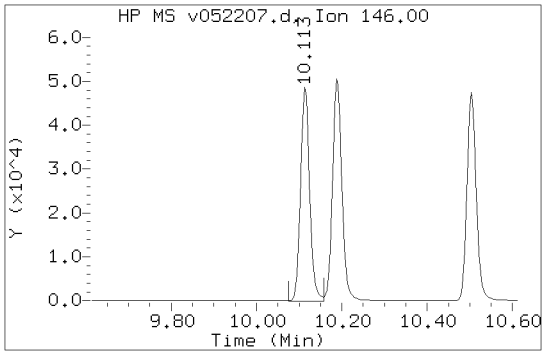
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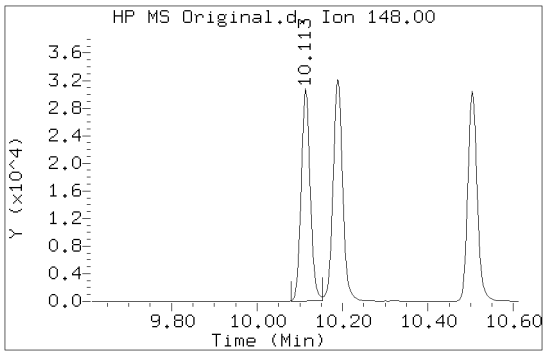
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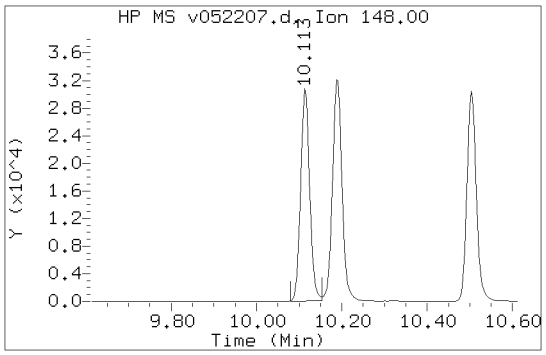
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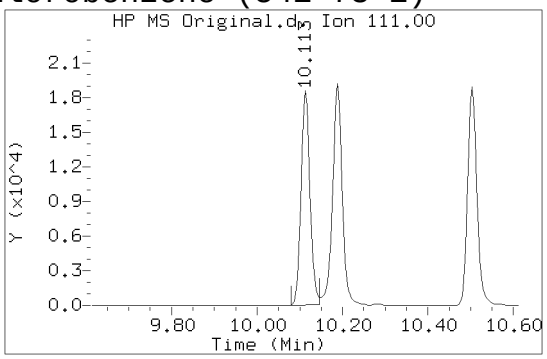


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LabSampID : VSTD020

1,3-Dichlorobenzene (541-73-1)

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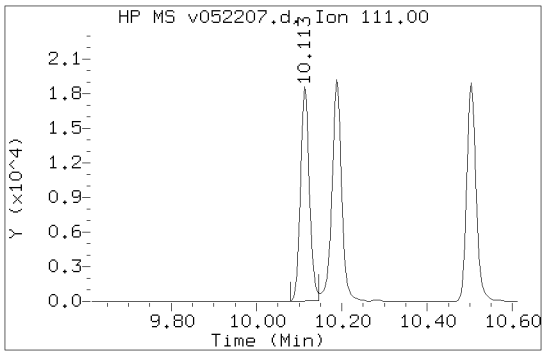
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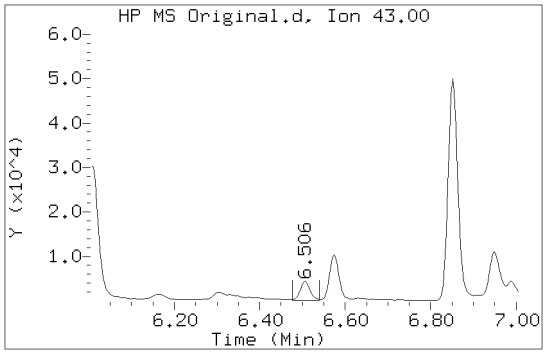
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2-Nitropropane (79-46-9)

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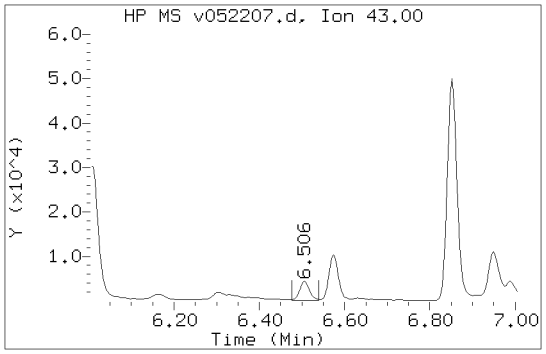
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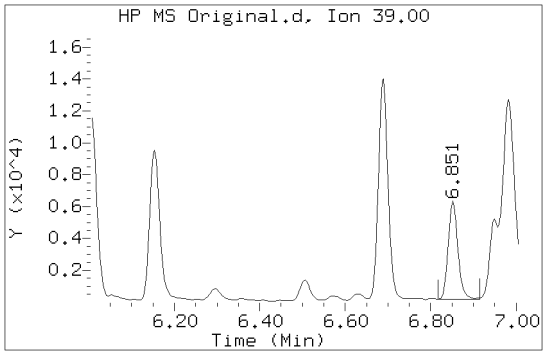
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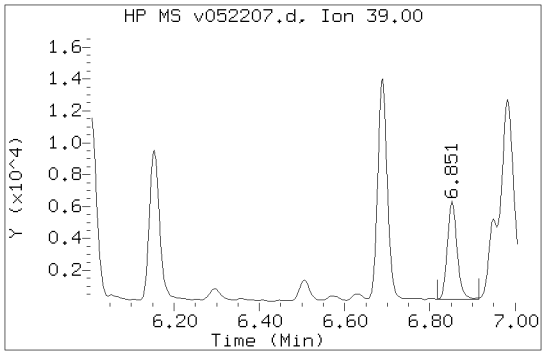
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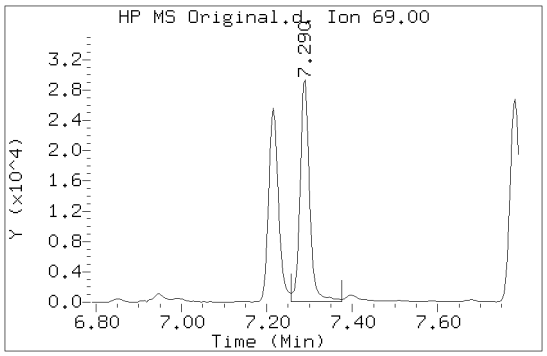
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Ethyl Methacrylate (97-63-2)

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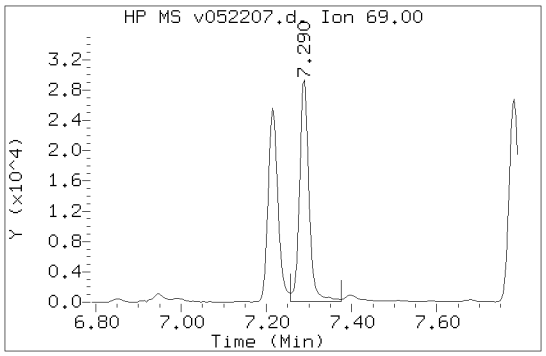
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Reason Code:

AFTER

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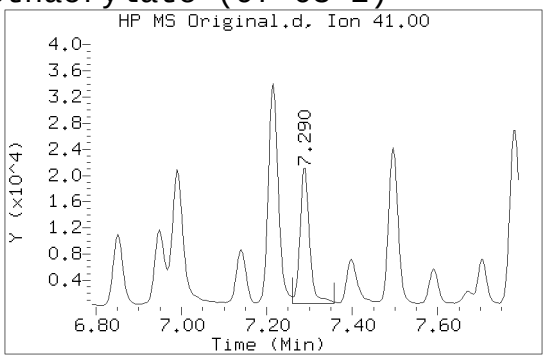


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Inj Date : 22-MAY-2024 22:10
InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Methacrylate (97-63-2)

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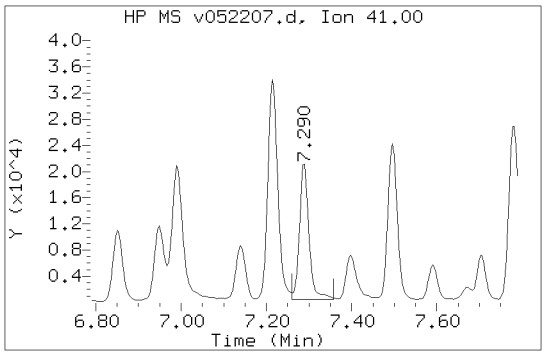
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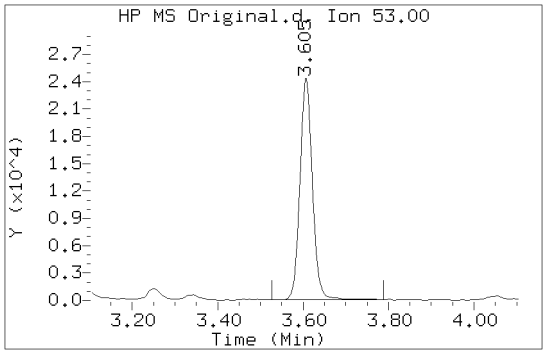
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Chloroprene (126-99-8)

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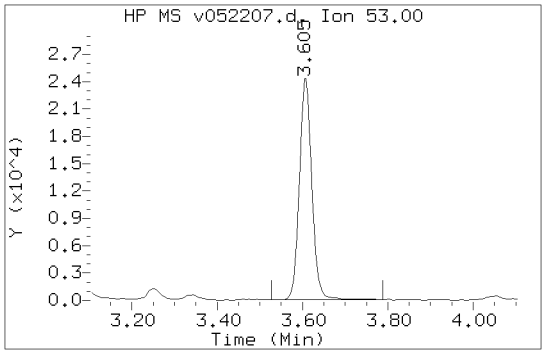
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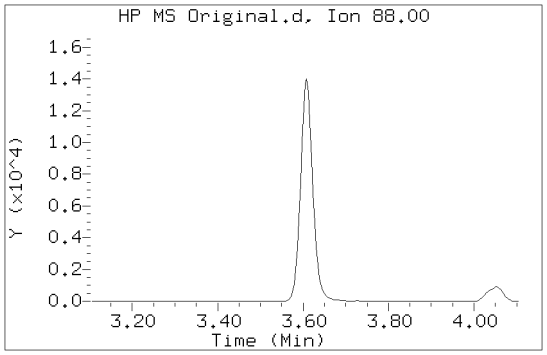
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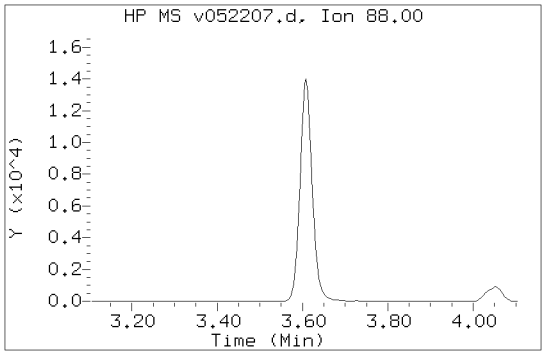
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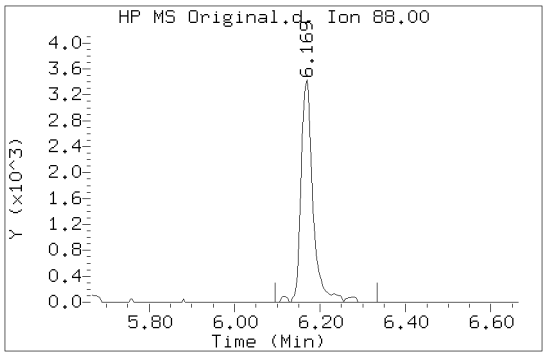


1,4-Dioxane ()

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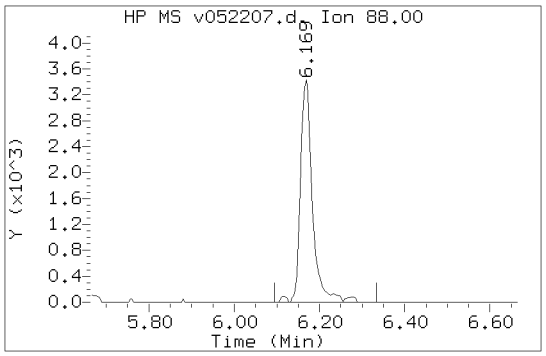
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AFTER

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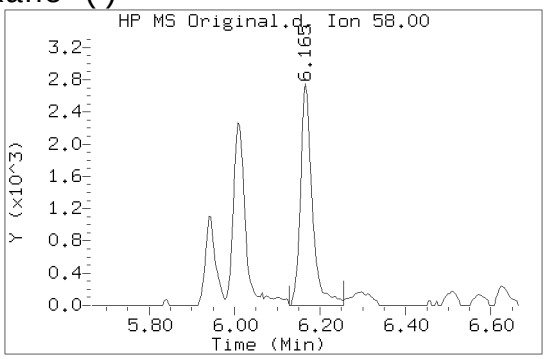
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1,4-Dioxane ()

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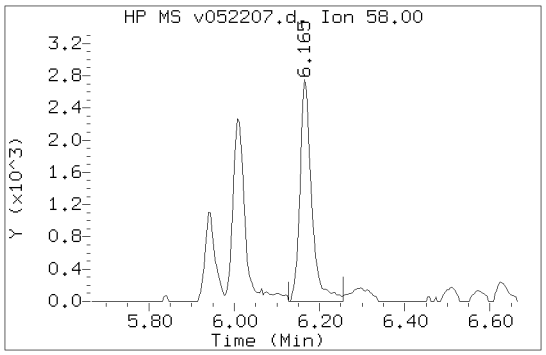
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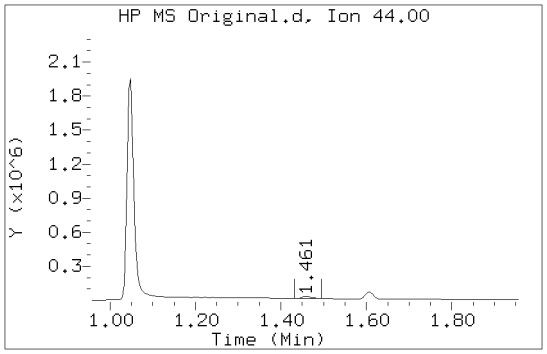


Acetaldehyde (75-07-0)

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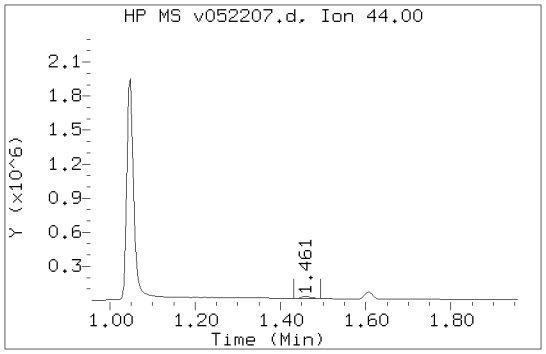
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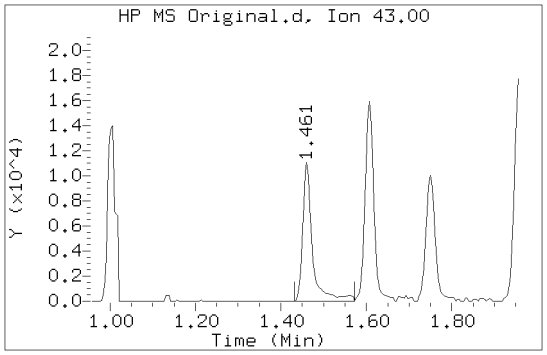
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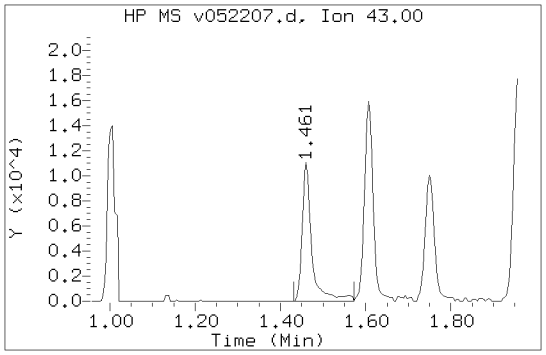
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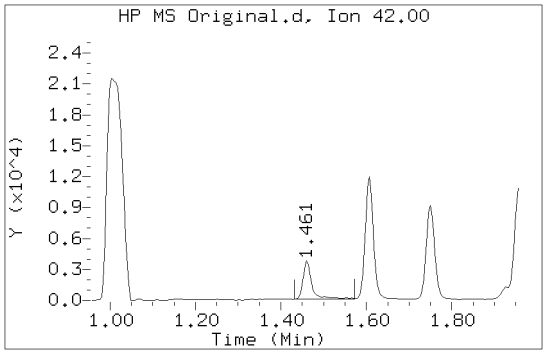
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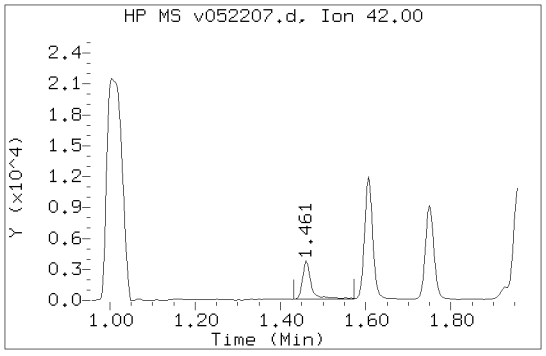
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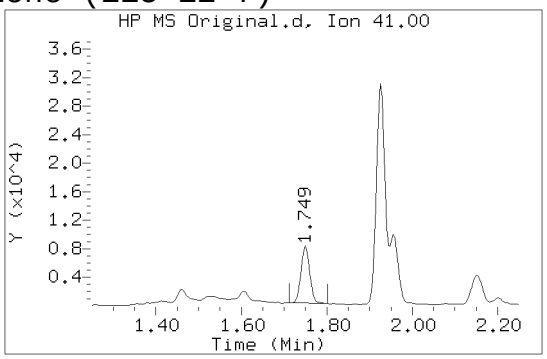


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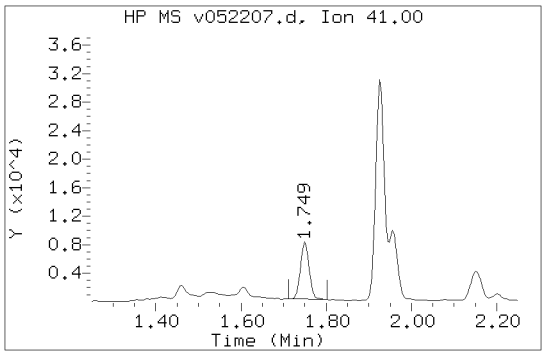
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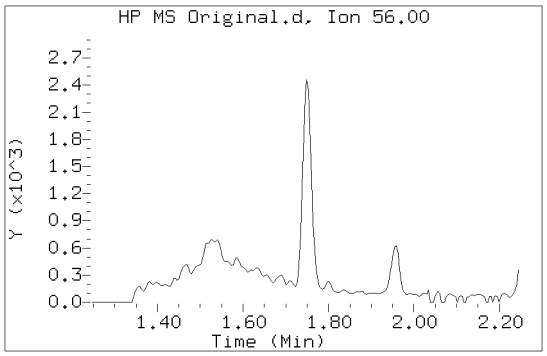
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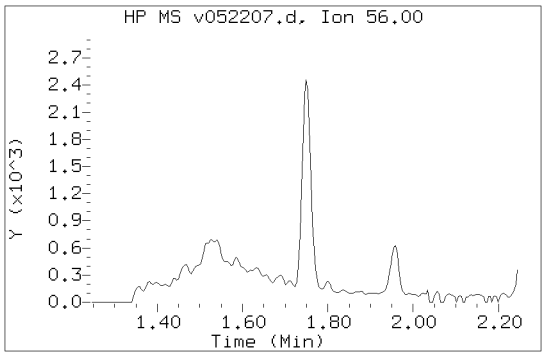
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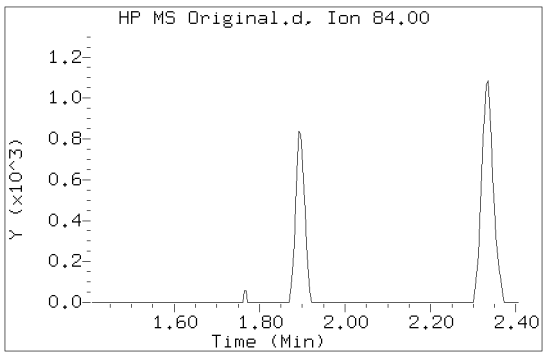
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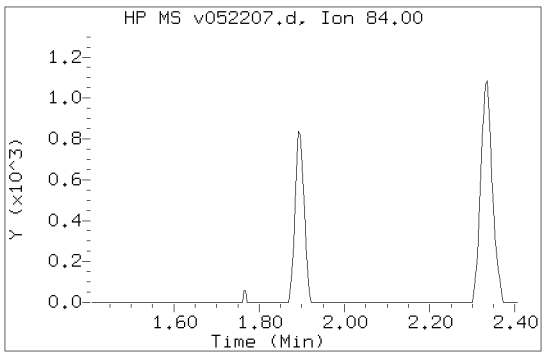
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D
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Inj Date : 22-MAY-2024 22:31
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Smp Info : VSTD050;VSTD050;1;7
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Cal Date : 22-MAY-2024 22:10 Cal File: V052207.D
Als bottle: 35 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	236594	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	59029	50.0000	46.76(M)
3 Chloromethane	50	1.299	1.299	(0.270)	201352	50.0000	27.42
4 Propionitrile	54	4.336	4.336	(0.900)	125590	500.000	420.11
5 Vinyl Chloride	62	1.378	1.378	(0.286)	95440	50.0000	44.54
6 Bromomethane	94	1.618	1.618	(0.336)	32231	50.0000	27.51
7 Chloroethane	64	1.700	1.700	(0.353)	64350	50.0000	43.48
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	113583	50.0000	46.44
9 Acrolein	56	2.266	2.266	(0.471)	9239	100.000	75.04
10 Acetone	43	2.409	2.409	(0.500)	74341	100.000	87.05
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	64498	50.0000	43.31
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	249577	1000.00	874.09
13 Acetonitrile	39	2.671	2.671	(0.555)	86871	500.000	444.57
14 Allyl Chloride	41	2.675	2.675	(0.556)	214149	50.0000	42.57
15 Iodomethane	142	2.469	2.469	(0.513)	25516	100.000	57.52
16 Acrylonitrile	53	3.068	3.068	(0.637)	61198	100.000	81.68
17 Methylene Chloride	84	2.795	2.795	(0.580)	83846	50.0000	28.64
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	203281	50.0000	42.83
19 Carbon Disulfide	76	2.521	2.521	(0.524)	408623	100.000	90.67
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	73673	50.0000	43.17

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96737	100.000	82.68
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	141547	50.0000	41.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	115753	50.0000	44.37(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	96203	100.000	87.23
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	54977	50.0000	44.13(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	93753	50.0000	44.91
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	88190	50.0000	43.06
	28 Chloroform	83	4.572	4.572	(0.949)	146139	50.0000	42.90
	29 Bromochloromethane	128	4.470	4.470	(0.928)	43607	50.0000	43.21
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	76667	50.0000	44.62
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	114556	50.0000	48.04
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	108766	50.0000	45.07
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	116826	50.0000	43.59
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	91306	50.0000	46.56
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	92816	50.0000	43.01
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	341655	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	340081	50.0000	43.59
	38 Trichloroethene	130	5.786	5.786	(1.043)	86167	50.0000	45.50
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	99254	50.0000	47.71
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	29014	50.0000	39.22
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	68317	100.000	102.83
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	92414	50.0000	42.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	17807	50.0000	43.86(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	53648	50.0000	45.53
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	195280	100.000	92.29
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	120791	50.0000	50.34
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	306747	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	283574	50.0000	45.51
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	117493	50.0000	46.61(M)
	50 Toluene	91	6.978	6.978	(0.853)	351915	50.0000	45.39
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	97757	50.0000	52.21
	52 2-Hexanone	43	7.589	7.589	(0.928)	128281	100.000	90.53
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	66596	50.0000	43.50
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	144932	50.0000	45.02
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	77857	50.0000	51.78
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68312	50.0000	46.74
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	78506	50.0000	47.85
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	71175	50.0000	26.00
	59 Chlorobenzene	112	8.208	8.208	(1.003)	224627	50.0000	42.56
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77170	50.0000	48.22
	61 Ethylbenzene	106	8.305	8.305	(1.015)	114025	50.0000	45.88
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	289961	100.000	95.02
	63 o-Xylene	106	8.744	8.744	(1.069)	143189	50.0000	47.94
	64 Styrene	104	8.759	8.759	(1.071)	247125	50.0000	48.77
	66 Bromoform	173	8.916	8.916	(1.090)	47869	50.0000	51.13
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	357215	50.0000	48.22
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	108865	50.0000	42.50
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	106600	50.0000	44.82
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166868	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	110579	50.0000	43.28
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	23825	50.0000	43.51
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	419609	50.0000	48.68
	74 Bromobenzene	156	9.314	9.314	(0.916)	97663	50.0000	44.50
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	294254	50.0000	49.47

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	255439	50.0000	45.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	296111	50.0000	46.55

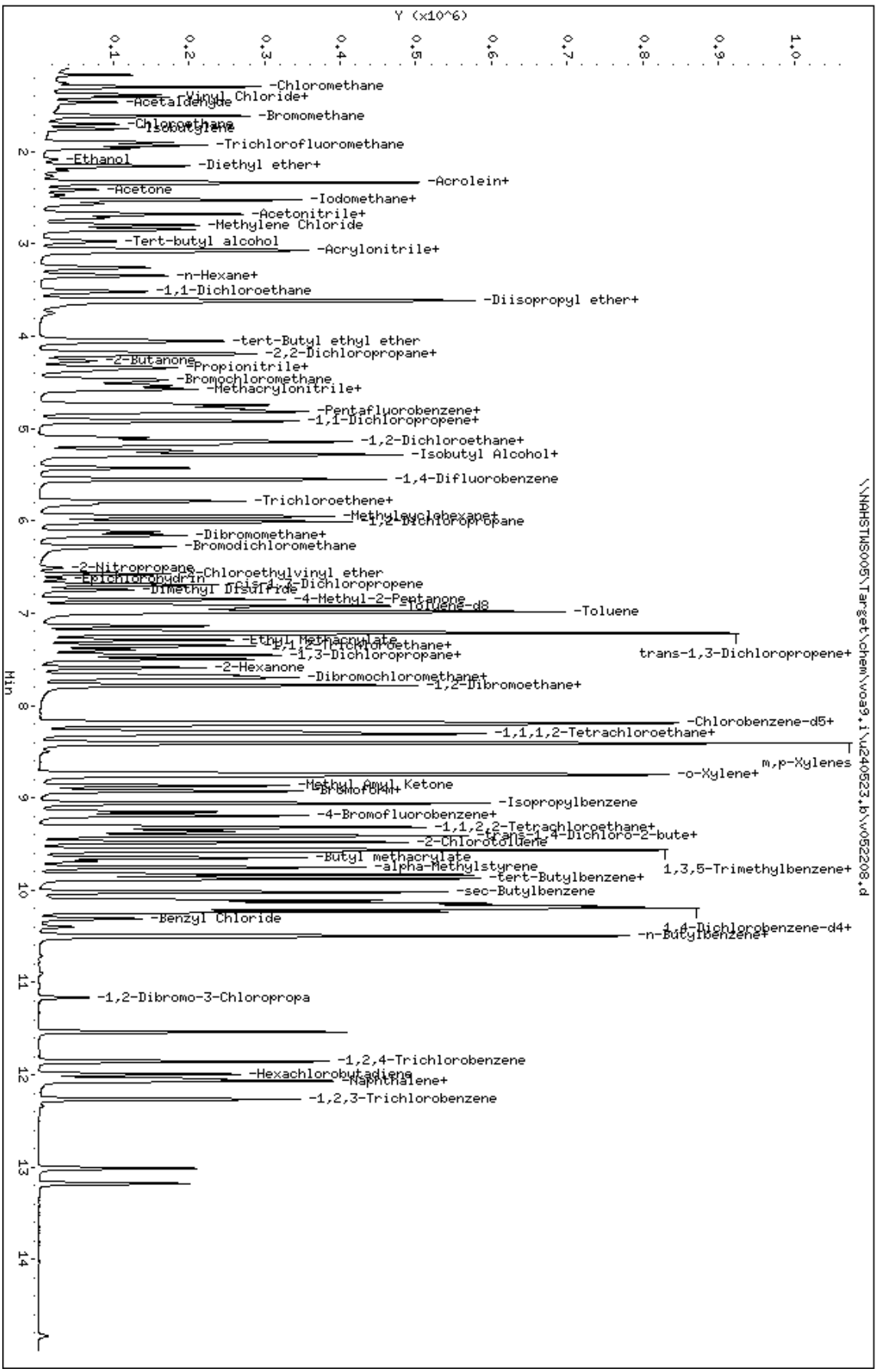
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	254668	50.0000	48.81
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	289810	50.0000	47.49
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	340659	50.0000	49.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	303056	50.0000	50.20
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	173337	50.0000	43.93(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	180977	50.0000	41.08
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89212	50.0000	26.62
87	n-Butylbenzene	91	10.491	10.491	(1.032)	268963	50.0000	45.90
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	173036	50.0000	43.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13422	50.0000	47.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	115032	50.0000	45.92
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	49023	50.0000	44.53
92	Naphthalene	128	12.065	12.065	(1.187)	270352	50.0000	50.87
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	106158	50.0000	45.51
146	Methyl acetate	43	2.716	2.716	(0.564)	89430	50.0000	37.92
138	Freon TF	101	2.337	2.337	(0.485)	123931	50.0000	48.64
141	Cyclohexane	56	4.785	4.785	(0.994)	125569	50.0000	29.28
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	31799	100.000	70.95
147	Methylcyclohexane	55	5.944	5.944	(1.071)	201212	50.0000	49.05
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16410	1000.00	612.53(M)
132	n-Butanol	56	5.820	5.820	(1.209)	39842	1000.00	894.06
136	n-Hexane	57	3.342	3.342	(0.694)	81645	50.0000	44.12
139	Diethyl ether	59	2.146	2.146	(0.446)	56732	50.0000	43.27
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	110717	1000.00	786.83
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	91636	1000.00	807.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	45025	1000.00	836.77
156	Diisopropyl ether	45	3.623	3.623	(0.752)	270843	50.0000	43.62
162	Butyl acrylate	55	8.729	8.729	(1.067)	146428	50.0000	45.13
187	n-Amyl acetate	43	8.928	8.928	(1.091)	146447	50.0000	42.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	365706	50.0000	42.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	276950	50.0000	48.95
167	Ethanol	45	2.086	2.086	(0.433)	17713	1000.00	765.25
172	tert-Butyl formate	59	5.239	5.239	(1.088)	98001	100.000	71.93
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	172267	1000.00	849.73
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	234456	50.0000	44.80
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	235572	50.0000	44.78
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	98001	1000.00	722.78
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	494612	1000.00	968.10
140	1,3-Butadiene	54	1.404	1.404	(0.292)	42015	50.0000	44.94
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23006	200.000	185.00
M 94	1,2-Dichloroethylene (total)	96				161863	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	121144	50.0000	49.55
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96737	50.0000	41.89
131	Methyl Acrylate	55	4.369	4.369	(0.907)	100487	50.0000	44.32
189	n-Butyl acetate	43	7.702	7.702	(0.941)	141944	50.0000	44.88
134	Cyclohexanone	55	9.149	9.149	(0.900)	91643	1000.00	949.97
185	Isoprene	39	2.158	2.158	(0.448)	19695	50.0000	48.97
188	Isopropyl acetate	43	5.284	5.284	(0.952)	246529	50.0000	43.08
150	Allyl alcohol	57	3.342	3.342	(0.694)	81645	1000.00	882.59
194	Acetaldehyde	44	1.464	1.464	(0.304)	60209	200.000	188.79(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	183664	50.0000	47.75
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	47587	50.0000	49.09

202 Isobutylene	41	1.753	1.753 (0.364)	28123	50.0000	52.00(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	201212	50.0000	48.23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	101384	50.0000	44.65
159 Propylene oxide	43	2.203	2.203	(0.457)	12428	100.000	69.44
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	82852	50.0000	51.11

QC Flag Legend

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



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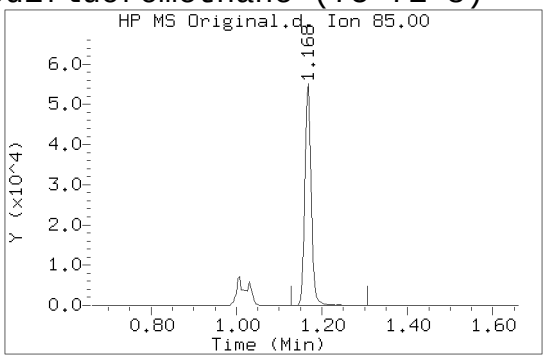
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Operator: FT
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

BEFORE

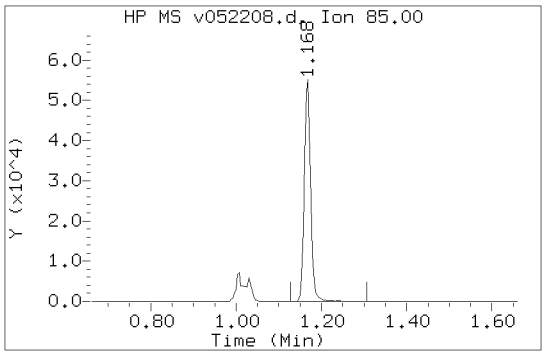
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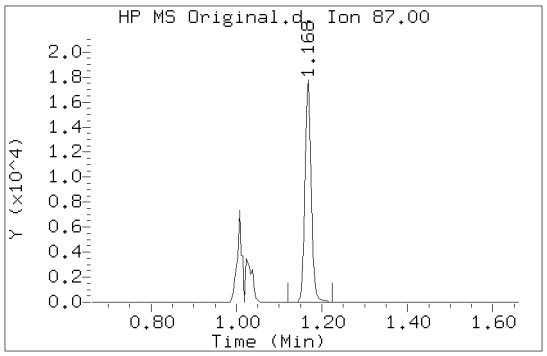
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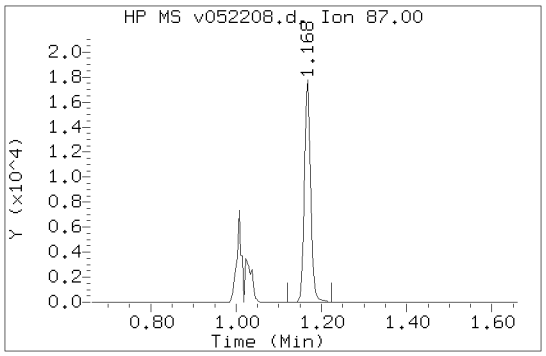
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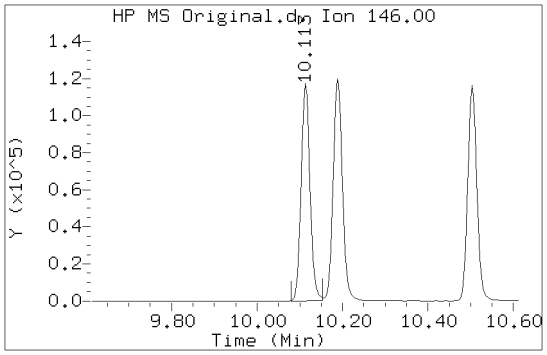
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1,3-Dichlorobenzene (541-73-1)

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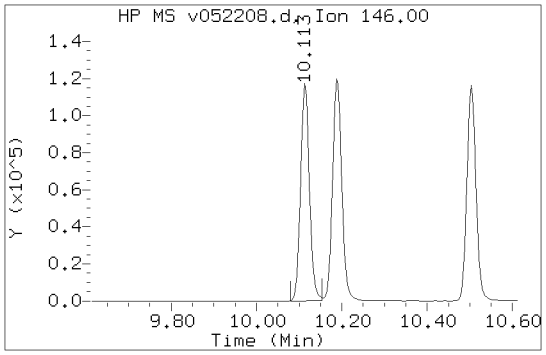
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Reason Code:

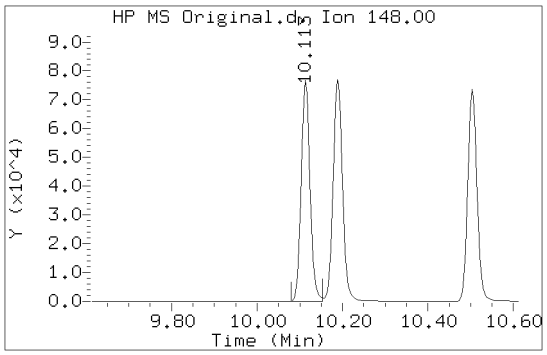
AFTER

MASS
146
AREA
173337
HEIGHT
117583
23-May-2024
09:51
firat
tastan



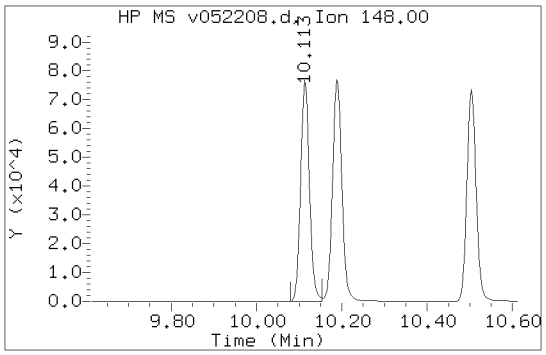
BEFORE

MASS
148
AREA
112515
HEIGHT
76709
23-May-2024
09:51
firat
tastan



AFTER

MASS
148
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



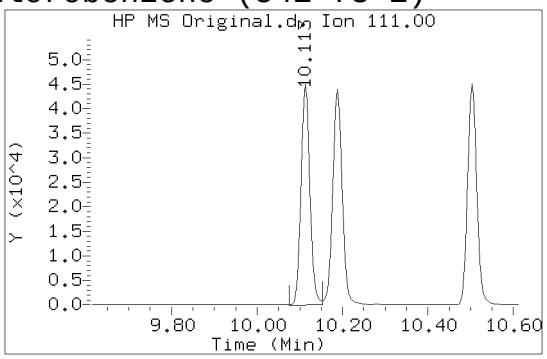
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

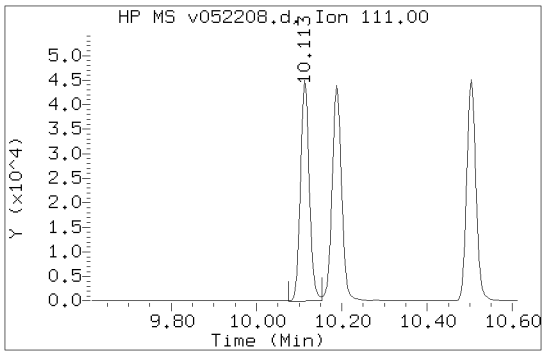
BEFORE

MASS
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AREA
66381
HEIGHT
45036
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
66381
HEIGHT
45036
23-May-2024
09:51
firat
tastan

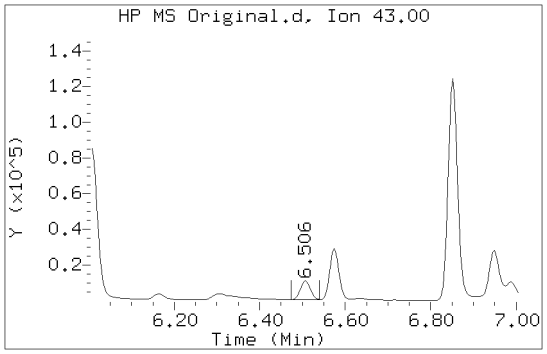


2-Nitropropane (79-46-9)

Reason Code:

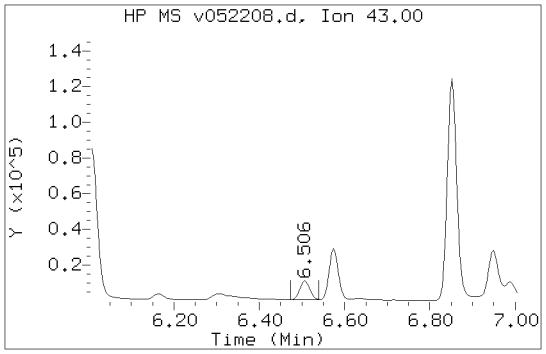
BEFORE

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HEIGHT
10781
23-May-2024
09:51
firat
tastan



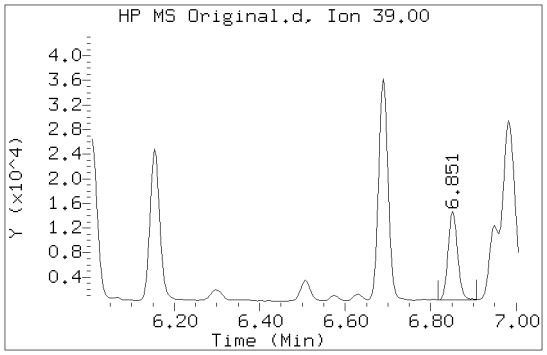
AFTER

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23-May-2024
09:51
firat
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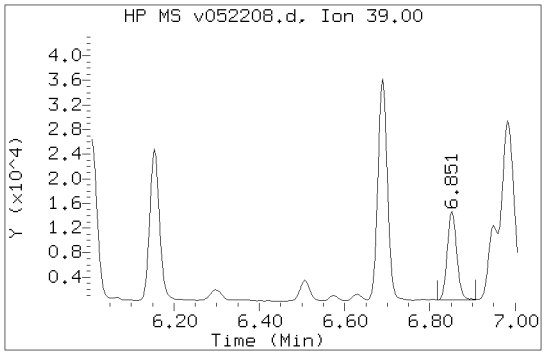
BEFORE

MASS
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AREA
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HEIGHT
14460
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
22220
HEIGHT
14460
23-May-2024
09:51
firat
tastan

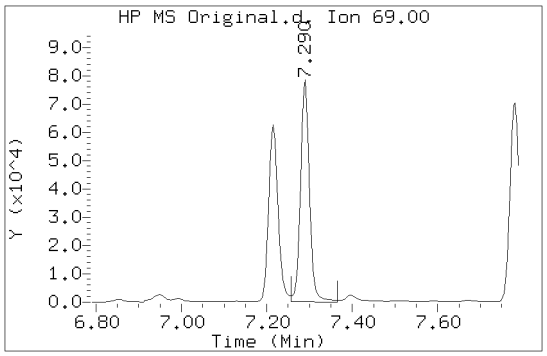


Ethyl Methacrylate (97-63-2)

Reason Code:

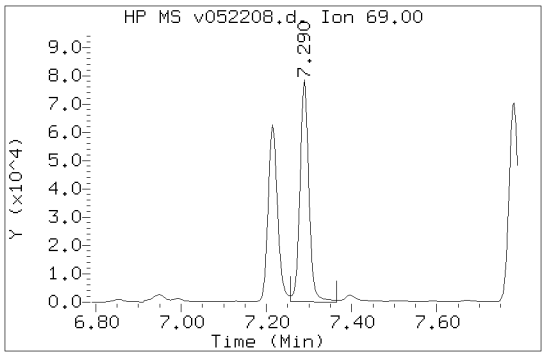
BEFORE

MASS
69
AREA
117493
HEIGHT
78401
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
117493
HEIGHT
78401
23-May-2024
09:51
firat
tastan



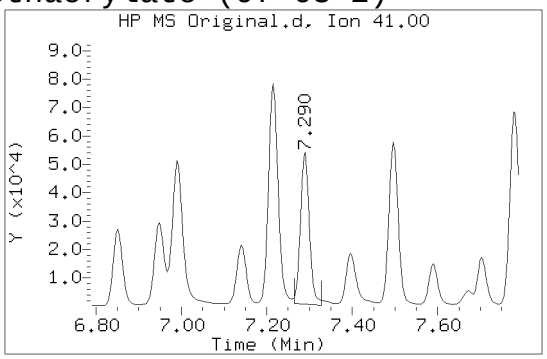
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Methacrylate (97-63-2)

Reason Code:

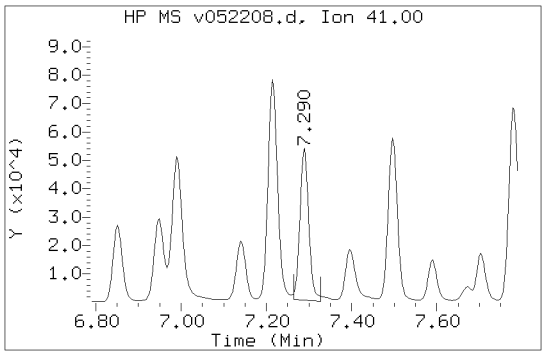
BEFORE

MASS
41
AREA
79597
HEIGHT
53563
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
79597
HEIGHT
53563
23-May-2024
09:51
firat
tastan

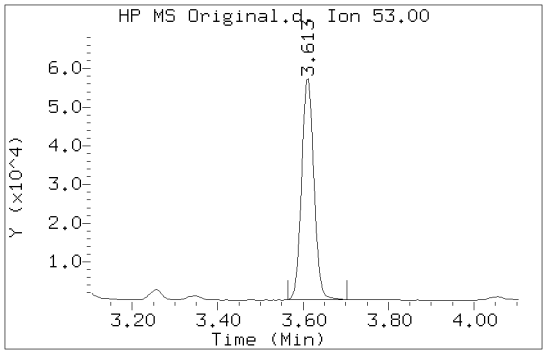


Chloroprene (126-99-8)

Reason Code:

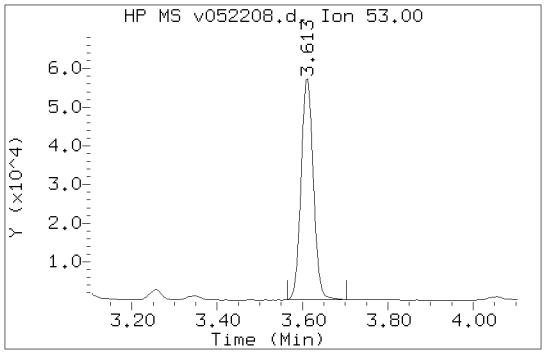
BEFORE

MASS
53
AREA
115753
HEIGHT
57127
23-May-2024
09:51
firat
tastan



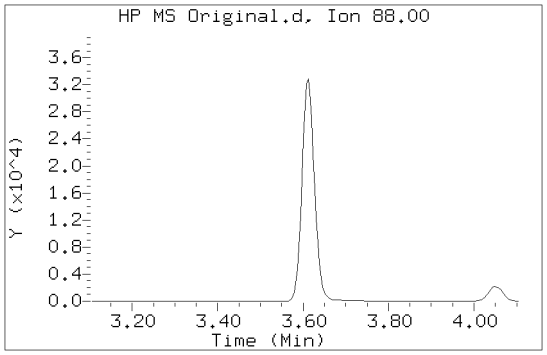
AFTER

MASS
53
AREA
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HEIGHT
57127
23-May-2024
09:51
firat
tastan



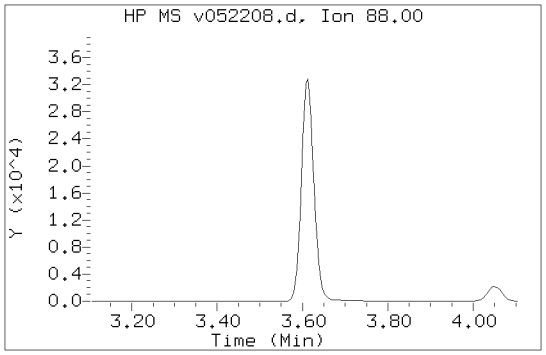
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

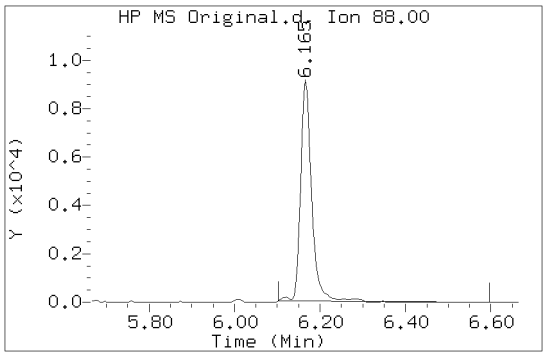


1,4-Dioxane ()

Reason Code:

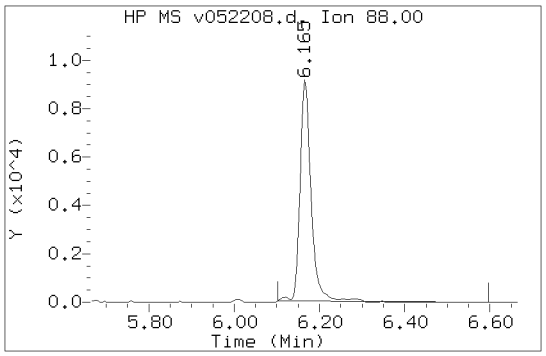
BEFORE

MASS
88
AREA
16410
HEIGHT
9132
23-May-2024
09:51
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tastan



AFTER

MASS
88
AREA
16410
HEIGHT
9132
23-May-2024
09:51
firat
tastan



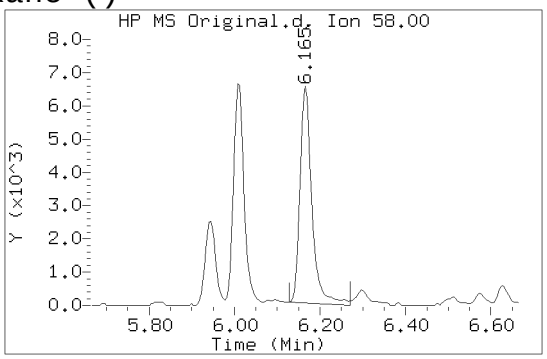
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

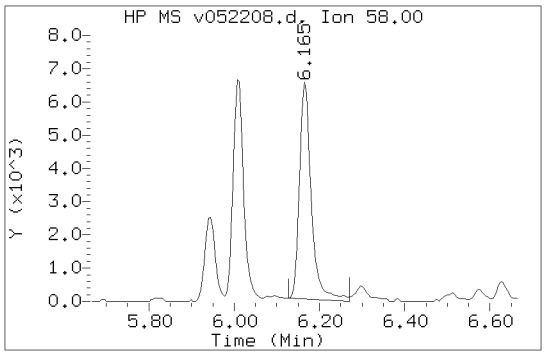
BEFORE

MASS
58
AREA
12825
HEIGHT
6530
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
12825
HEIGHT
6530
23-May-2024
09:51
firat
tastan

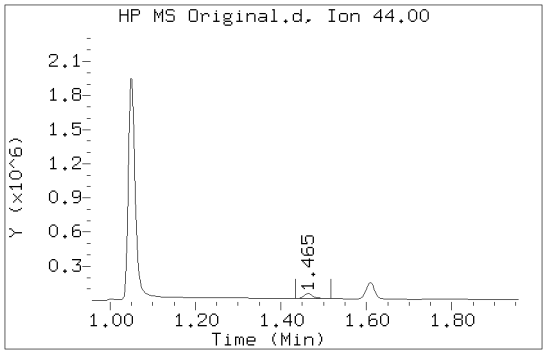


Acetaldehyde (75-07-0)

Reason Code:

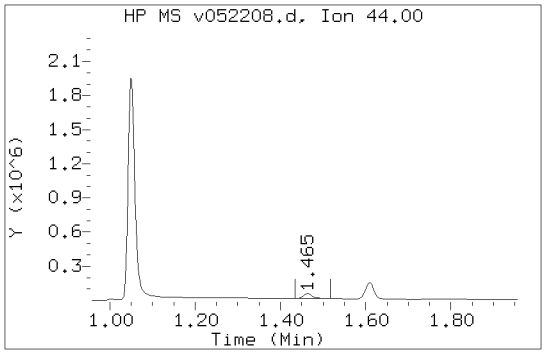
BEFORE

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44
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60209
HEIGHT
42599
23-May-2024
09:51
firat
tastan



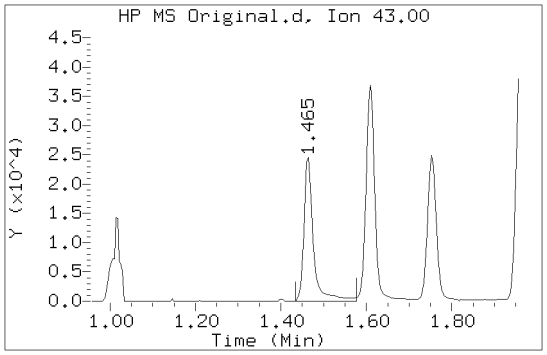
AFTER

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42599
23-May-2024
09:51
firat
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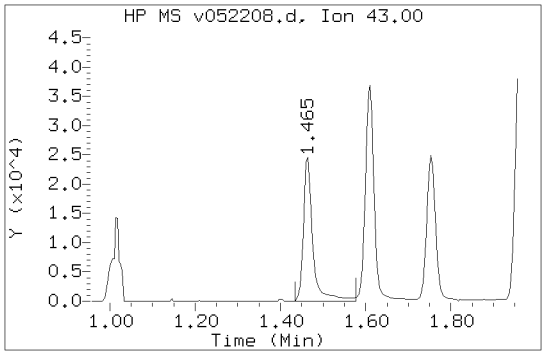
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38512
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24632
23-May-2024
09:51
firat
tastan



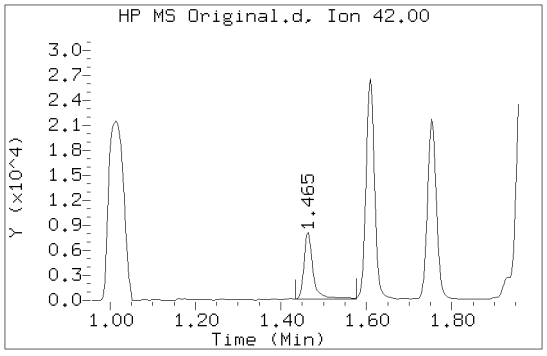
AFTER

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23-May-2024
09:51
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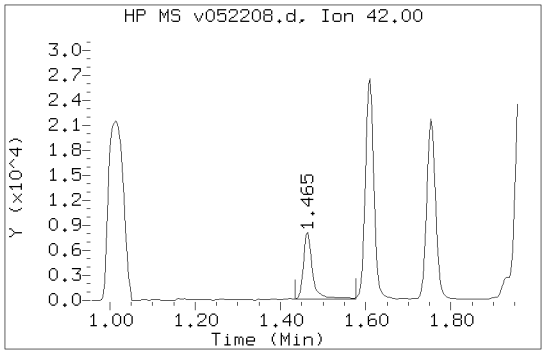
BEFORE

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8010
23-May-2024
09:51
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AFTER

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AREA
12434
HEIGHT
8010
23-May-2024
09:51
firat
tastan



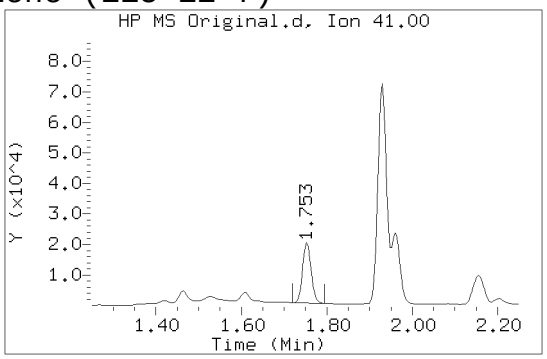
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

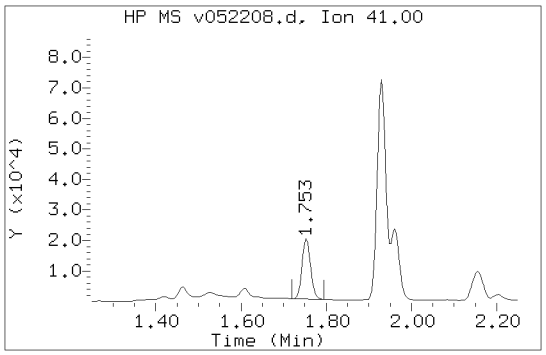
BEFORE

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AREA
28123
HEIGHT
19932
23-May-2024
09:51
firat
tastan



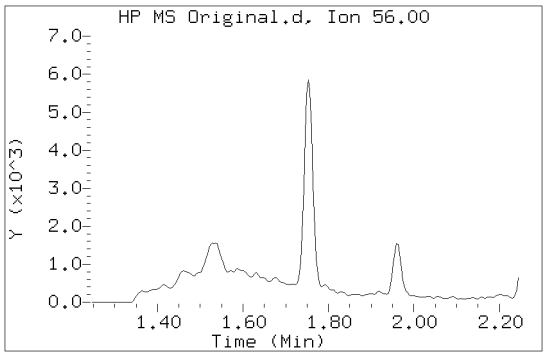
AFTER

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23-May-2024
09:51
firat
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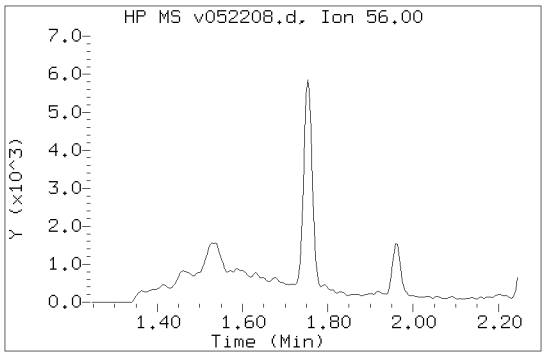
BEFORE

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23-May-2024
09:51
firat
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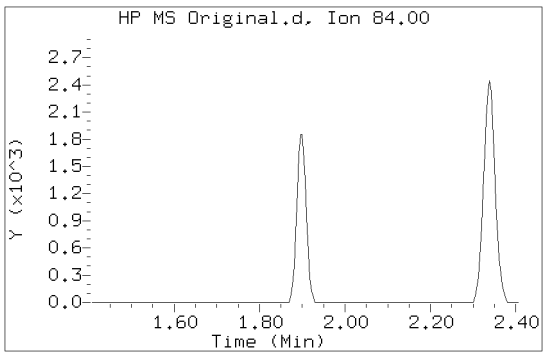
AFTER

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23-May-2024
09:51
firat
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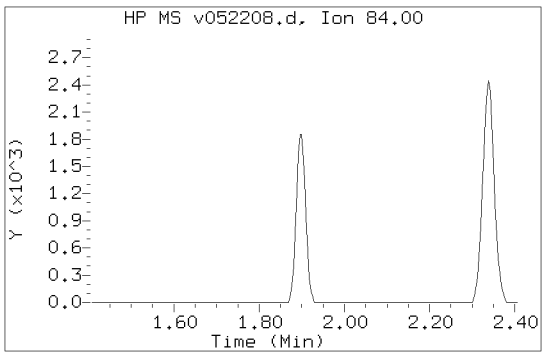
BEFORE

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84
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23-May-2024
09:51
firat
tastan



AFTER

MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D
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Inj Date : 22-MAY-2024 22:53
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:31 Cal File: V052208.D
Als bottle: 36 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.811	4.811	(1.000)	244638	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	124883	100.000	95.68(M)
3	Chloromethane	50	1.291	1.291	(0.268)	415448	100.000	54.71
4	Propionitrile	54	4.335	4.335	(0.901)	247974	1000.00	802.23
5	Vinyl Chloride	62	1.374	1.374	(0.286)	205327	100.000	92.67
6	Bromomethane	94	1.606	1.606	(0.334)	65774	100.000	54.29
7	Chloroethane	64	1.692	1.692	(0.352)	137646	100.000	89.95
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	242118	100.000	95.75
9	Acrolein	56	2.258	2.258	(0.469)	16522	200.000	129.79
10	Acetone	43	2.405	2.405	(0.500)	142776	200.000	161.70
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	140549	100.000	91.28
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	519730	2000.00	1760.39
13	Acetonitrile	39	2.667	2.667	(0.554)	175761	1000.00	869.90
14	Allyl Chloride	41	2.667	2.667	(0.554)	428574	100.000	82.39
15	Iodomethane	142	2.461	2.461	(0.512)	74208	200.000	161.79
16	Acrylonitrile	53	3.061	3.061	(0.636)	120448	200.000	155.48
17	Methylene Chloride	84	2.791	2.791	(0.580)	174302	100.000	57.59
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	403076	100.000	82.14
19	Carbon Disulfide	76	2.517	2.517	(0.523)	880167	200.000	188.89
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	155751	100.000	88.26

21 Vinyl Acetate	43	4.335	4.335 (0.901)	197614	200.000	163.36
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	296135	100.000	84.45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	249311	100.000	92.43(M)
24	2-Butanone	43	4.260	4.260	(0.885)	197983	200.000	173.62
25	Methacrylonitrile	41	4.489	4.489	(0.933)	114272	100.000	88.72(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	208299	100.000	96.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	185945	100.000	87.81
28	Chloroform	83	4.568	4.568	(0.949)	305959	100.000	86.87
29	Bromochloromethane	128	4.466	4.466	(0.928)	90371	100.000	86.61
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	155928	100.000	87.77
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	245190	100.000	99.44
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	232450	100.000	93.19
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	238700	100.000	86.16
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	204530	100.000	100.90
$ 35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	186459	100.000	83.56
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	353172	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	712365	100.000	88.33
38	Trichloroethene	130	5.786	5.786	(1.043)	177670	100.000	90.75
39	Bromodichloromethane	83	6.277	6.277	(1.131)	219113	100.000	101.89
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	61390	100.000	80.26
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	152634	200.000	222.25
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	192490	100.000	86.03
43	2-Nitropropane	43	6.506	6.506	(1.352)	39659	100.000	94.47(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	109064	100.000	89.55
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	413580	200.000	187.01
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	270110	100.000	108.90
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	320606	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	582672	100.000	89.46
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	244348	100.000	93.78(M)
50	Toluene	91	6.978	6.978	(0.853)	729405	100.000	90.02
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	223156	100.000	115.30
52	2-Hexanone	43	7.589	7.589	(0.928)	278725	200.000	188.20
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	137987	100.000	86.23
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	297425	100.000	88.39
55	Dibromochloromethane	129	7.690	7.690	(0.940)	173114	100.000	110.17
56	Tetrachloroethene	164	7.454	7.454	(0.911)	141354	100.000	92.54
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	161828	100.000	94.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	154985	100.000	54.78
59	Chlorobenzene	112	8.208	8.208	(1.003)	465190	100.000	84.33
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	165486	100.000	98.93
61	Ethylbenzene	106	8.305	8.305	(1.015)	238607	100.000	91.87
62	m,p-Xylenes	106	8.406	8.406	(1.027)	602773	200.000	189.00
63	o-Xylene	106	8.744	8.744	(1.069)	294378	100.000	94.30
64	Styrene	104	8.759	8.759	(1.071)	516455	100.000	97.53
66	Bromoform	173	8.916	8.916	(1.090)	111672	100.000	114.13
67	Isopropylbenzene	105	9.059	9.059	(1.107)	752303	100.000	97.18
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	229364	100.000	86.30
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	213520	100.000	85.89
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173149	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	238259	100.000	89.87
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	51909	100.000	90.70
73	n-Propylbenzene	91	9.411	9.411	(0.926)	878233	100.000	98.20
74	Bromobenzene	156	9.314	9.314	(0.916)	202370	100.000	88.86
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	623339	100.000	100.99

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	530900	100.000	91.61
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	608997	100.000	92.28

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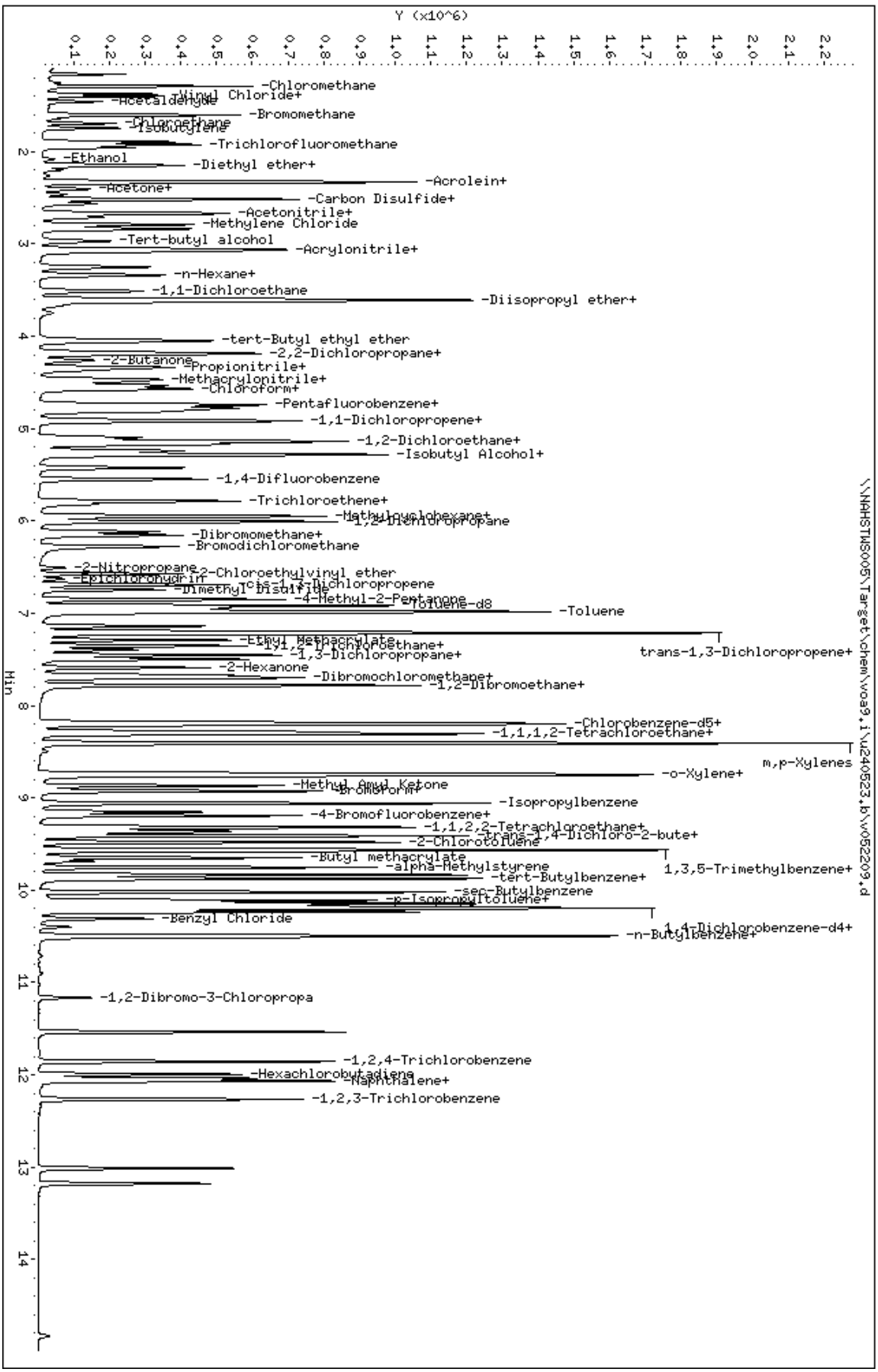
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	527600	100.000	97.45
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	610547	100.000	96.43
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	724626	100.000	100.72
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	643268	100.000	102.69
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	357696	100.000	87.36(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	370133	100.000	80.98
86	Benzyl Chloride	91	10.311	10.311	(1.260)	210396	100.000	60.08
87	n-Butylbenzene	91	10.491	10.491	(1.032)	572951	100.000	94.23
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	351398	100.000	84.76
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	30092	100.000	102.61
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	245972	100.000	94.63
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	104037	100.000	91.09
92	Naphthalene	128	12.065	12.065	(1.187)	569634	100.000	103.31
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	222501	100.000	91.92
146	Methyl acetate	43	2.708	2.708	(0.563)	184062	100.000	75.49
138	Freon TF	101	2.330	2.330	(0.484)	259877	100.000	98.65
141	Cyclohexane	56	4.781	4.781	(0.994)	262264	100.000	59.14
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	62998	200.000	135.94
147	Methylcyclohexane	55	5.943	5.943	(1.071)	418747	100.000	98.76
135	1,4-Dioxane	88	6.165	6.165	(1.281)	34583	2000.00	1248.42(M)
132	n-Butanol	56	5.820	5.820	(1.210)	84580	2000.00	1835.59
136	n-Hexane	57	3.338	3.338	(0.694)	173931	100.000	90.92
139	Diethyl ether	59	2.142	2.142	(0.445)	112971	100.000	83.33
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	224546	2000.00	1543.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	182354	2000.00	1554.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	96345	2000.00	1713.14
156	Diisopropyl ether	45	3.619	3.619	(0.752)	542852	100.000	84.56
162	Butyl acrylate	55	8.729	8.729	(1.067)	324941	100.000	95.82
187	n-Amyl acetate	43	8.927	8.927	(1.091)	324241	100.000	89.39
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	734991	100.000	81.99
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	551693	100.000	93.97
167	Ethanol	45	2.082	2.082	(0.433)	34812	2000.00	1454.52
172	tert-Butyl formate	59	5.242	5.242	(1.090)	245253	200.000	174.10
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	356876	2000.00	1684.24
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	477690	100.000	88.29
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	479003	100.000	88.07
176	tert-Amyl alcohol	59	5.242	5.242	(1.090)	245253	2000.00	1749.34
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1060087	2000.00	2007.25
140	1,3-Butadiene	54	1.400	1.400	(0.291)	91939	100.000	95.11
182	Epichlorohydrin	57	6.629	6.629	(1.195)	48090	400.000	374.11
M 94	1,2-Dichloroethylene (total)	96				341696	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	257528	100.000	101.52
130	Ethyl Acetate	43	4.335	4.335	(0.901)	197614	100.000	82.77
131	Methyl Acrylate	55	4.365	4.365	(0.907)	201900	100.000	86.12
189	n-Butyl acetate	43	7.702	7.702	(0.941)	313148	100.000	94.73
134	Cyclohexanone	55	9.149	9.149	(0.900)	177267	2000.00	1770.89
185	Isoprene	39	2.154	2.154	(0.448)	41413	100.000	99.58
188	Isopropyl acetate	43	5.280	5.280	(0.951)	520021	100.000	87.92
150	Allyl alcohol	57	3.338	3.338	(0.694)	173931	2000.00	1818.40
194	Acetaldehyde	44	1.456	1.456	(0.303)	116437	400.000	353.10(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	378859	100.000	94.24
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	138053	100.000	136.28

202 Isobutylene	41	1.745	1.745 (0.363)	59172	100.000	105.81(M)
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	418747	100.000	97.08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	184758	100.000	78.43
159 Propylene oxide	43	2.198	2.198	(0.457)	24845	200.000	134.26
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	192225	100.000	114.29

QC Flag Legend

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



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Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Page 1

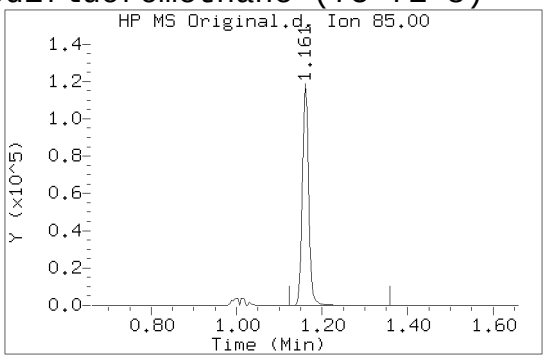
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LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

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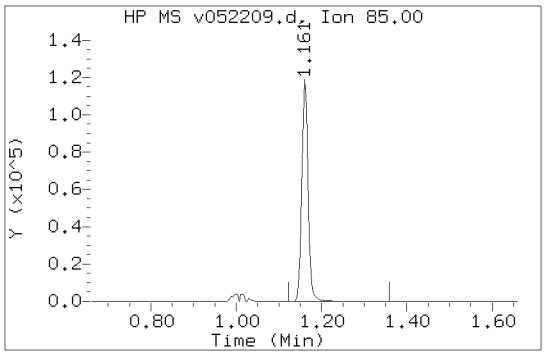
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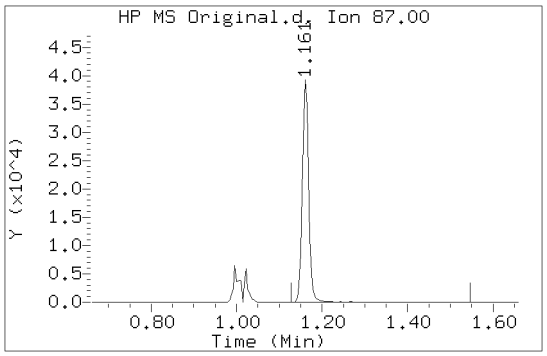
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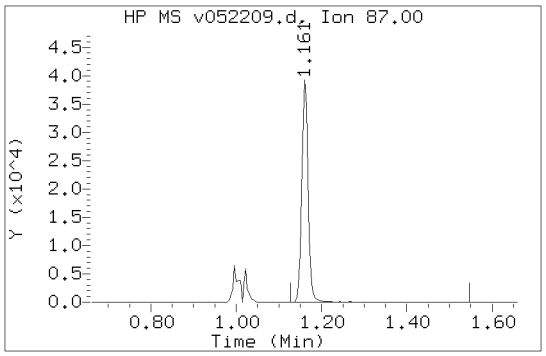
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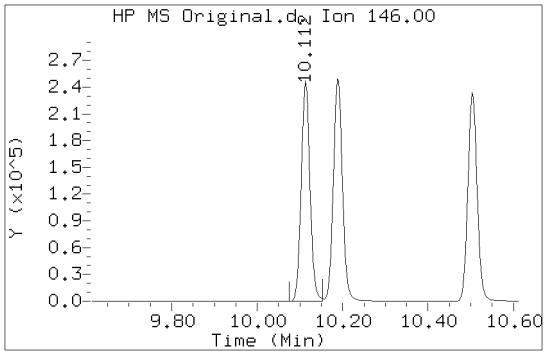


1,3-Dichlorobenzene (541-73-1)

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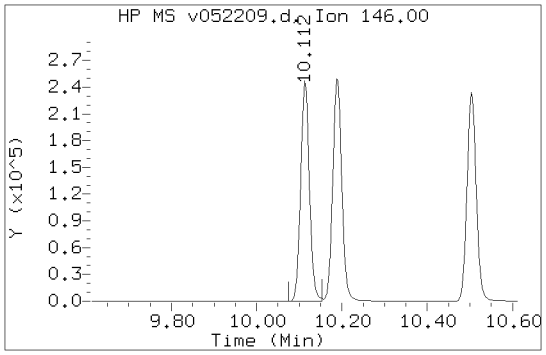
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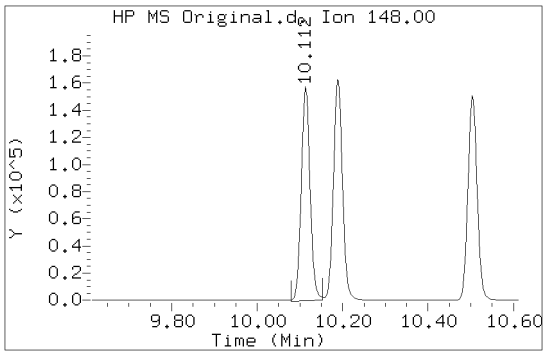
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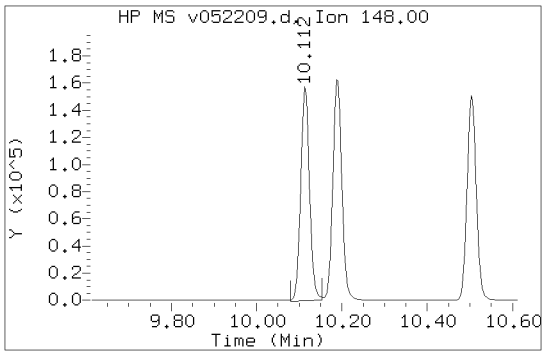
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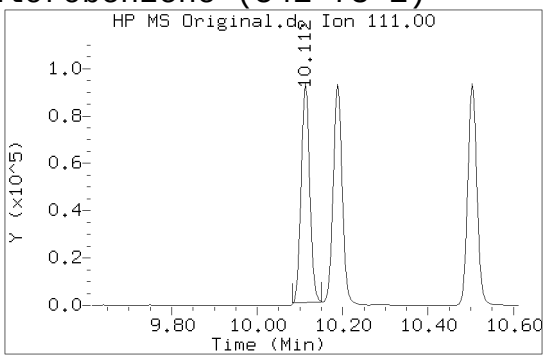
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LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

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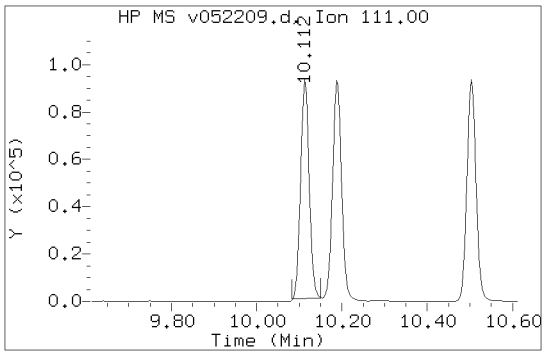
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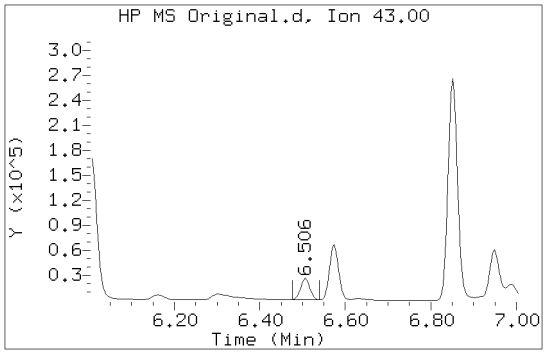


2-Nitropropane (79-46-9)

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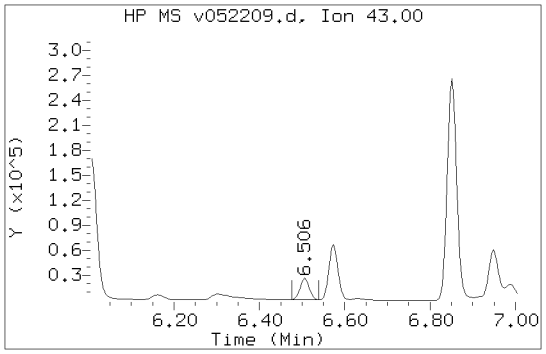
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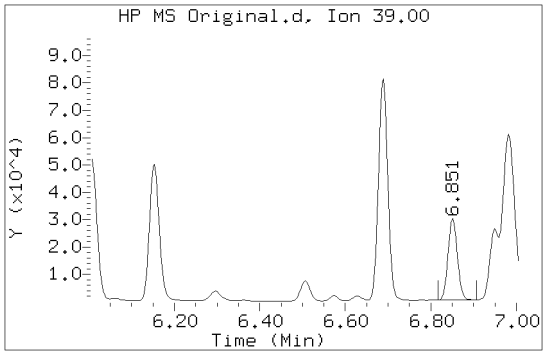
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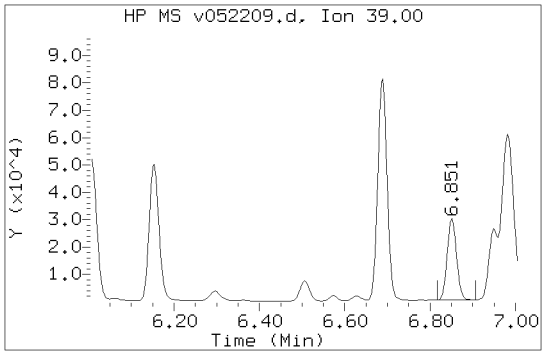
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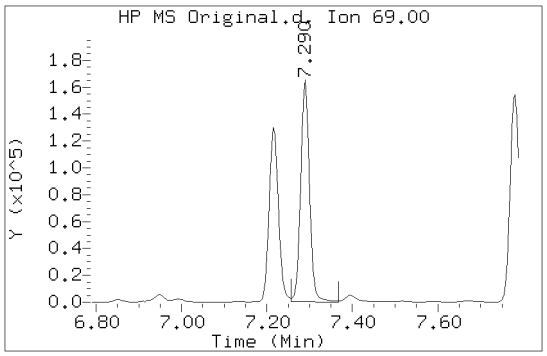


Ethyl Methacrylate (97-63-2)

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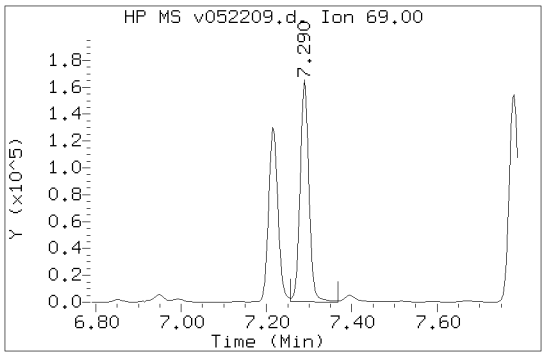
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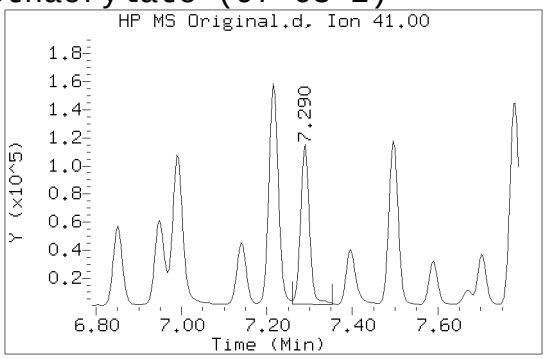
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Ethyl Methacrylate (97-63-2)

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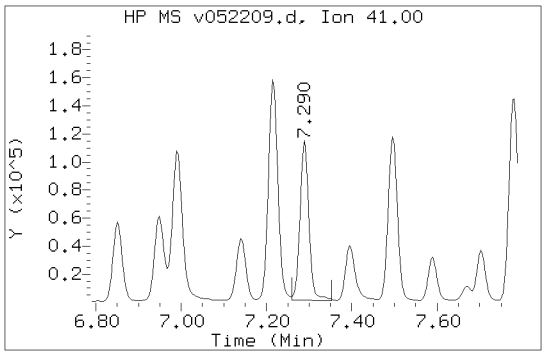
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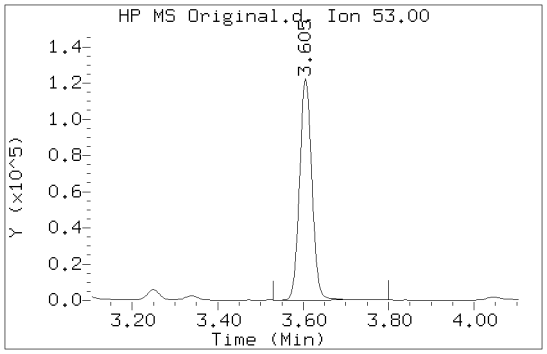


Chloroprene (126-99-8)

Reason Code:

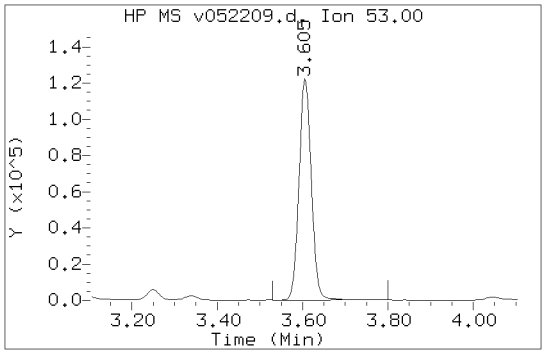
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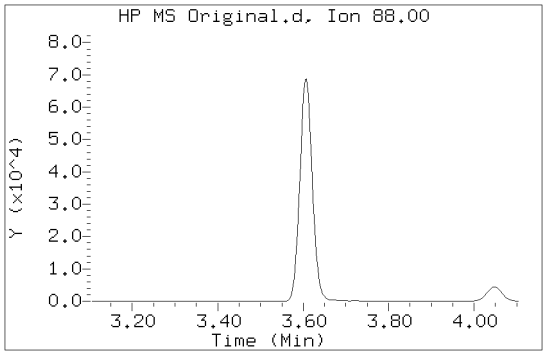
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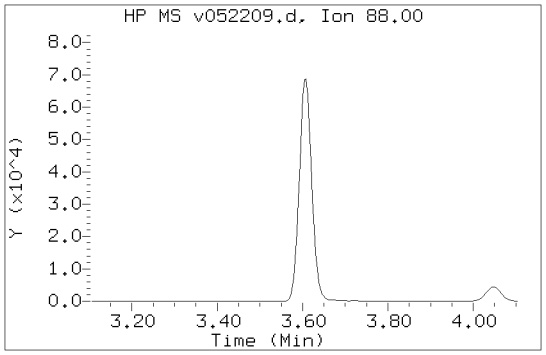
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AFTER

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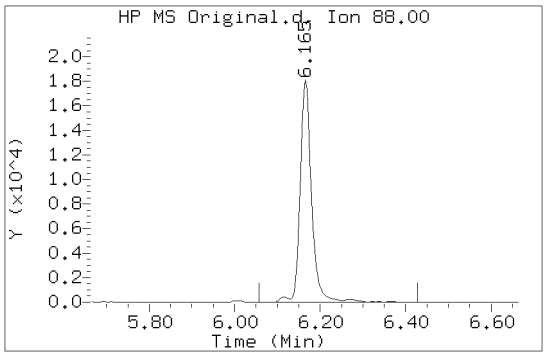


1,4-Dioxane ()

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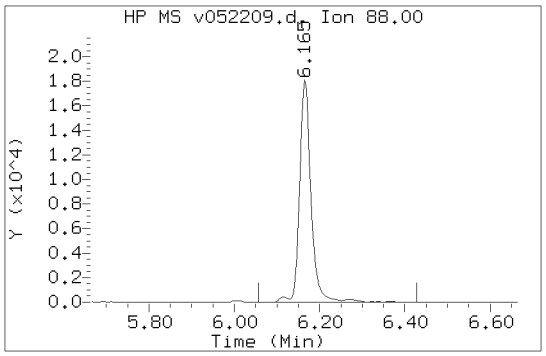
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firat
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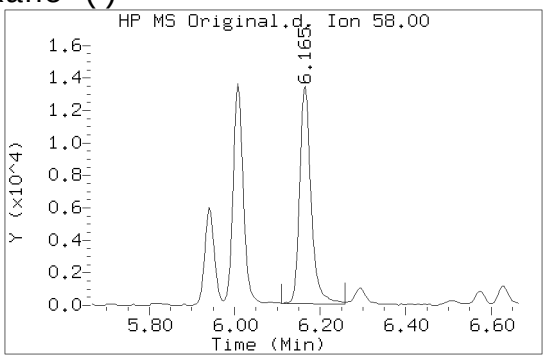
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InstruID : VOA9.i
LabSampID : VSTD100

1,4-Dioxane ()

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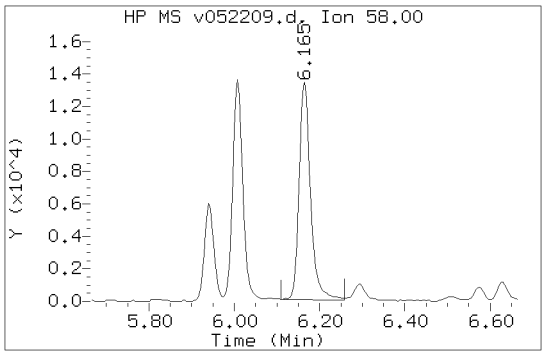
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13401
23-May-2024
09:51
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AFTER

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23-May-2024
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firat
tastan

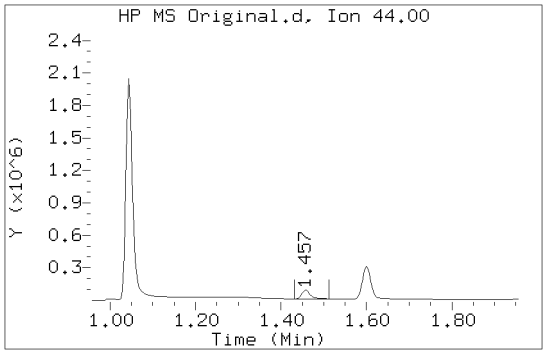


Acetaldehyde (75-07-0)

Reason Code:

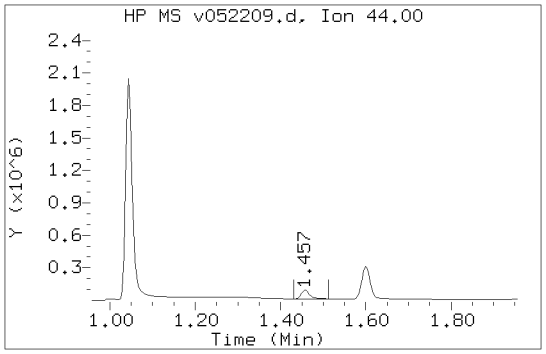
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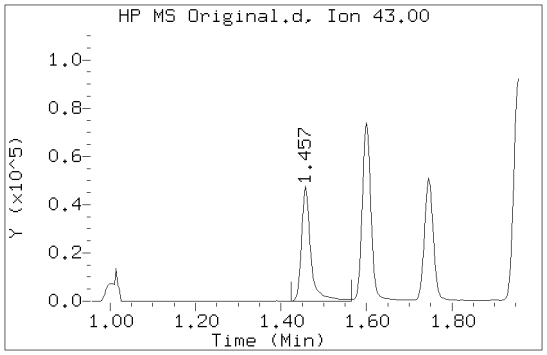
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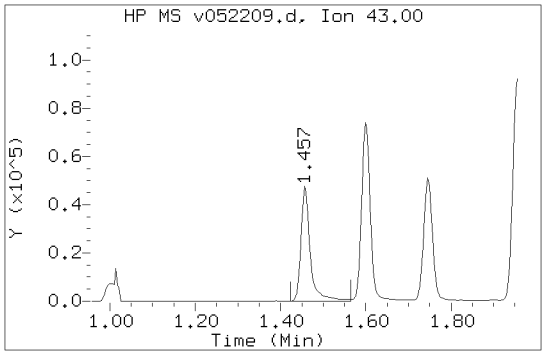
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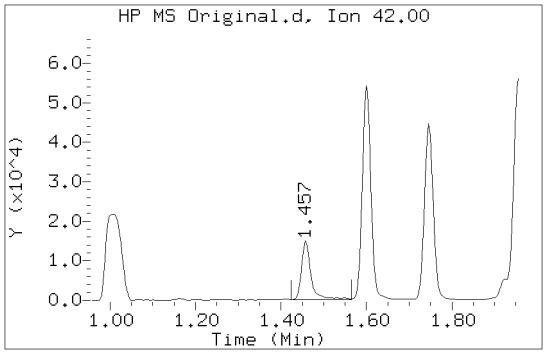
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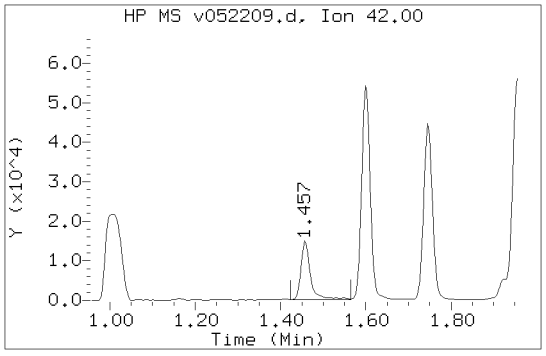
BEFORE

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23-May-2024
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AFTER

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23-May-2024
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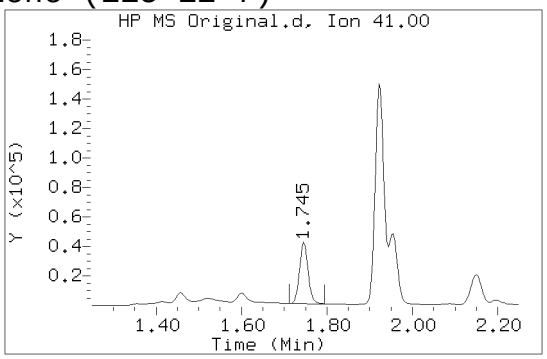


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InstruID : VOA9.i
LabSampID : VSTD100

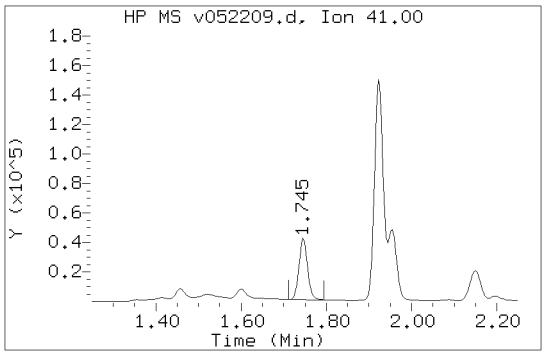
Isobutylene (115-11-7)

Reason Code:

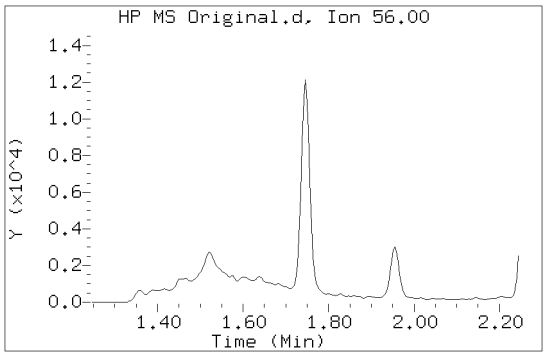
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41852
23-May-2024
09:51
firat
tastan



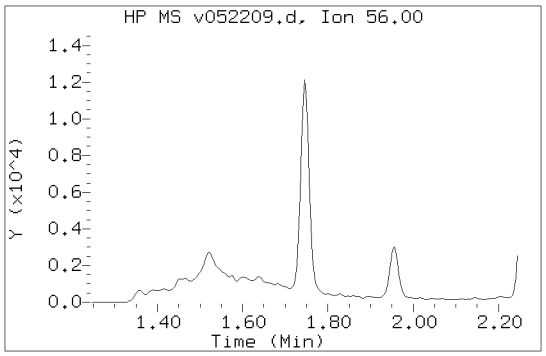
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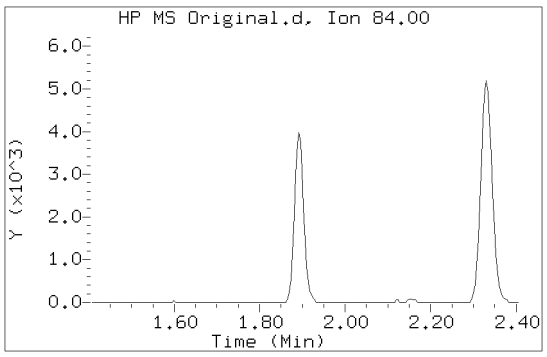
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09:51
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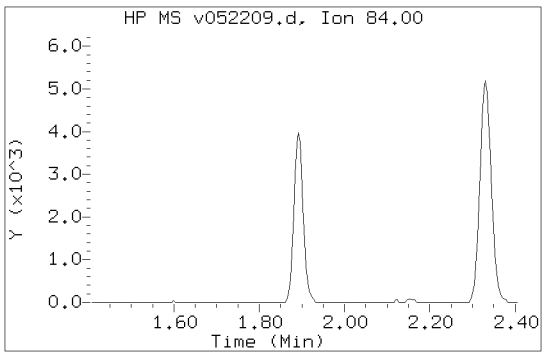
AFTER
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23-May-2024
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tastan



BEFORE
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23-May-2024
09:51
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052210.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052210.D
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Inj Date : 22-MAY-2024 23:14
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 : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:53 Cal File: V052209.D
Als bottle: 37 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	239958	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	198151	150.000	154.78(M)
3	Chloromethane	50	1.303	1.303	(0.270)	607310	150.000	81.54
4	Propionitrile	54	4.343	4.343	(0.901)	419530	1500.00	1383.72
5	Vinyl Chloride	62	1.385	1.385	(0.288)	322547	150.000	148.42
6	Bromomethane	94	1.614	1.614	(0.335)	107492	150.000	90.46
7	Chloroethane	64	1.700	1.700	(0.353)	211144	150.000	140.67
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	378523	150.000	152.61
9	Acrolein	56	2.274	2.274	(0.472)	26414	300.000	211.54
10	Acetone	43	2.416	2.416	(0.501)	195395	300.000	225.61
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	221684	150.000	146.79
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	863241	3000.00	2980.94
13	Acetonitrile	39	2.678	2.678	(0.556)	291743	1500.00	1472.09
14	Allyl Chloride	41	2.678	2.678	(0.556)	707694	150.000	138.71
15	Iodomethane	142	2.472	2.472	(0.513)	163796	300.000	364.07
16	Acrylonitrile	53	3.072	3.072	(0.638)	200354	300.000	263.67
17	Methylene Chloride	84	2.798	2.798	(0.581)	267122	150.000	89.97
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	666277	150.000	138.43
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1405239	300.000	307.46
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	243102	150.000	140.45

21 Vinyl Acetate	43	4.347	4.347 (0.902)	323159	300.000	272.35
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	459660	150.000	133.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	386156	150.000	145.96(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	309540	300.000	276.75
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	183139	150.000	144.97(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	332884	150.000	157.24
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	290714	150.000	139.97
	28 Chloroform	83	4.575	4.575	(0.949)	474746	150.000	137.42
	29 Bromochloromethane	128	4.474	4.474	(0.928)	137705	150.000	134.55
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	247969	150.000	142.30
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	391150	150.000	161.73
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	366910	150.000	148.78
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	371348	150.000	135.56
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	327707	150.000	163.50
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	296828	150.000	135.62
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349206	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	1101756	150.000	138.16
	38 Trichloroethene	130	5.790	5.790	(1.043)	280951	150.000	145.14
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	349201	150.000	164.23
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	109195	150.000	145.55
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	262521	300.000	386.61
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	299364	150.000	135.31
	43 2-Nitropropane	43	6.510	6.510	(1.351)	73483	150.000	178.46(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	171098	150.000	142.09
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	687712	300.000	309.86
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	439737	150.000	179.31
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	321752	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	927386	150.000	141.89
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	422534	150.000	164.01(M)
	50 Toluene	91	6.982	6.982	(0.853)	1144047	150.000	140.69
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	365940	150.000	191.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	464185	300.000	312.32
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	214887	150.000	133.81
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	469335	150.000	138.99
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	280256	150.000	177.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	222191	150.000	144.94
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	259365	150.000	150.71
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	252903	150.000	90.41
	59 Chlorobenzene	112	8.208	8.208	(1.003)	727850	150.000	131.48
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	264682	150.000	157.67
	61 Ethylbenzene	106	8.305	8.305	(1.015)	382760	150.000	146.85
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	960371	300.000	300.06
	63 o-Xylene	106	8.744	8.744	(1.068)	465583	150.000	148.61
	64 Styrene	104	8.759	8.759	(1.070)	821909	150.000	154.66
	66 Bromoform	173	8.916	8.916	(1.089)	191523	150.000	195.04
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1192276	150.000	153.46
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	369458	150.000	138.76
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	343103	150.000	137.53
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173466	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	395706	150.000	148.99
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	88907	150.000	154.80
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1400350	150.000	156.30
	74 Bromobenzene	156	9.317	9.317	(0.916)	320122	150.000	140.31
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	989469	150.000	160.03

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	831056	150.000	143.15
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	965133	150.000	145.97

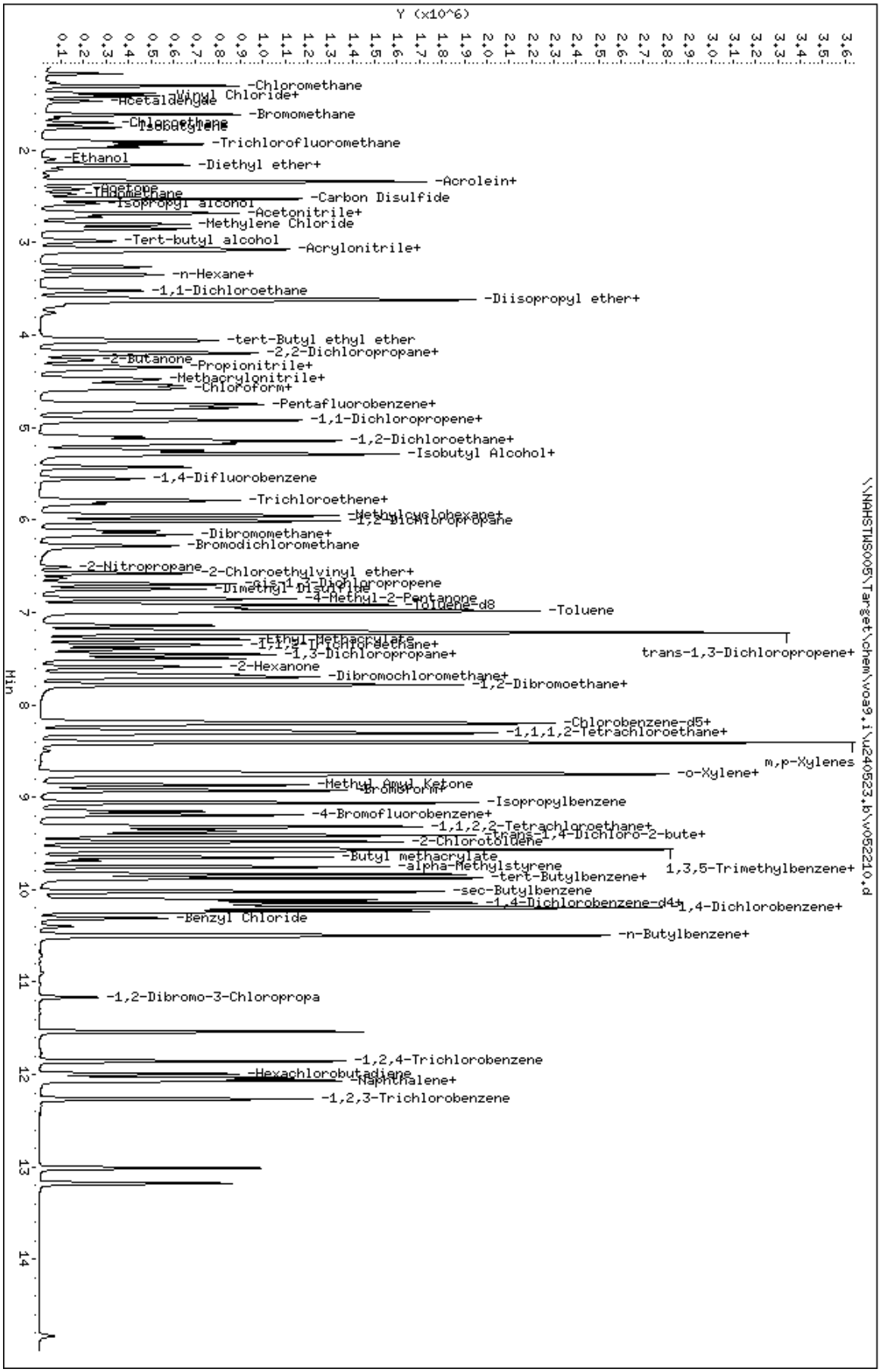
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	841533	150.000	155.15
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	978699	150.000	154.30
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1161338	150.000	161.13
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1029142	150.000	163.99
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	572945	150.000	139.69(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	591659	150.000	129.21
86	Benzyl Chloride	91	10.311	10.311	(1.260)	376162	150.000	107.03
87	n-Butylbenzene	91	10.491	10.491	(1.032)	921709	150.000	151.31
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	559869	150.000	134.80
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	53671	150.000	182.69
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	400246	150.000	153.70
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	168921	150.000	147.63
92	Naphthalene	128	12.065	12.065	(1.187)	942854	150.000	170.68
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	367419	150.000	151.52
146	Methyl acetate	43	2.720	2.720	(0.564)	289604	150.000	121.09
138	Freon TF	101	2.341	2.341	(0.486)	422728	150.000	163.60
141	Cyclohexane	56	4.785	4.785	(0.993)	413887	150.000	95.15
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	106261	300.000	233.78
147	Methylcyclohexane	55	5.947	5.947	(1.071)	707169	150.000	168.68(A)
135	1,4-Dioxane	88	6.169	6.169	(1.280)	58072	3000.00	2137.25(M)
132	n-Butanol	56	5.827	5.827	(1.209)	154786	3000.00	3424.75
136	n-Hexane	57	3.346	3.346	(0.694)	275576	150.000	146.86
139	Diethyl ether	59	2.154	2.154	(0.447)	184324	150.000	138.61
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	393893	3000.00	2760.03
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	317783	3000.00	2762.64
152	Amyl alcohol	42	7.398	7.398	(0.904)	179902	3000.00	3187.51
156	Diisopropyl ether	45	3.627	3.627	(0.753)	865221	150.000	137.41
162	Butyl acrylate	55	8.729	8.729	(1.066)	597576	150.000	175.60
187	n-Amyl acetate	43	8.928	8.928	(1.091)	545320	150.000	149.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1228197	150.000	136.77
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	907380	150.000	154.27
167	Ethanol	45	2.097	2.097	(0.435)	60218	3000.00	2565.11
172	tert-Butyl formate	59	5.246	5.246	(1.089)	441582	300.000	319.59(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	652708	3000.00	3069.43
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	823130	150.000	155.10
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.842)	791524	150.000	148.38
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	441582	3000.00	3211.15
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1911785	3000.00	3661.04
140	1,3-Butadiene	54	1.411	1.411	(0.293)	144272	150.000	152.17
182	Epichlorohydrin	57	6.630	6.630	(1.194)	84666	600.000	666.14
M 94	1,2-Dichloroethylene (total)	96				533816	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	421653	150.000	165.92
130	Ethyl Acetate	43	4.347	4.347	(0.902)	323159	150.000	138.00
131	Methyl Acrylate	55	4.373	4.373	(0.907)	341037	150.000	148.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	536822	150.000	161.82
134	Cyclohexanone	55	9.152	9.152	(0.900)	279590	3000.00	2787.99
185	Isoprene	39	2.165	2.165	(0.449)	67449	150.000	165.35
188	Isopropyl acetate	43	5.288	5.288	(0.952)	858493	150.000	146.79
150	Allyl alcohol	57	3.346	3.346	(0.694)	275576	3000.00	2937.27
194	Acetaldehyde	44	1.468	1.468	(0.305)	186588	600.000	576.87(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	665328	150.000	164.91
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	293895	150.000	289.09(A)

202 Isobutylene	41	1.756	1.756 (0.365)	97888	150.000	178.46(M)
133 Ethyl Acrylate	55	5.947	5.947 (1.234)	707169	150.000	167.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	327444	150.000	138.75
159 Propylene oxide	43	2.210	2.210	(0.459)	38997	300.000	214.85(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	349547	150.000	207.45(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\voa9,i\u240523,b\v052210,d
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

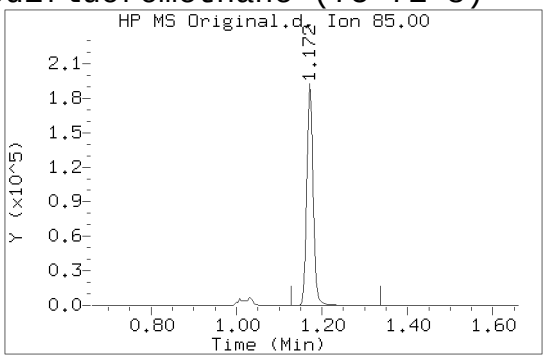
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

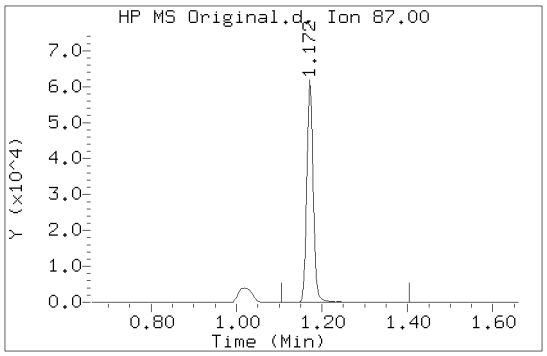
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BEFORE

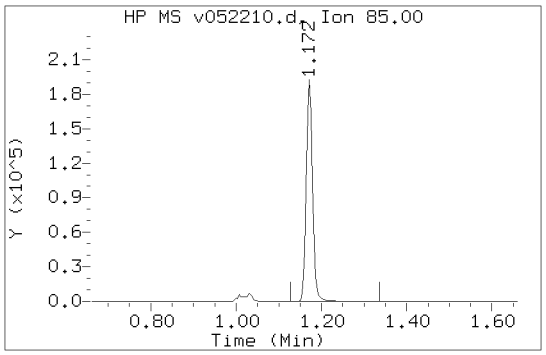
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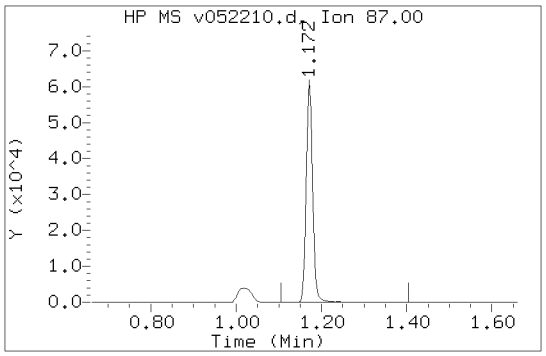
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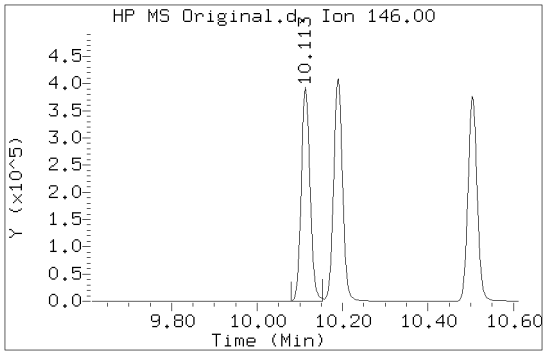
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1,3-Dichlorobenzene (541-73-1)

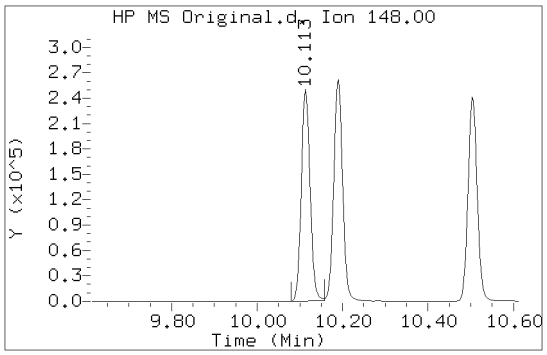
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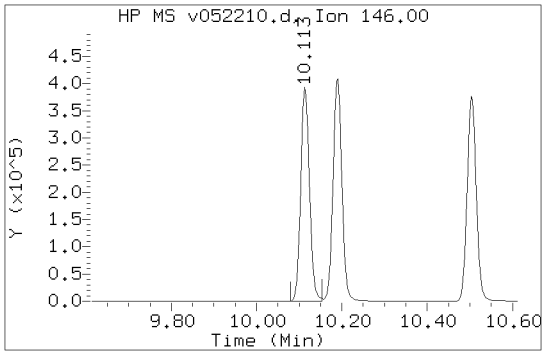
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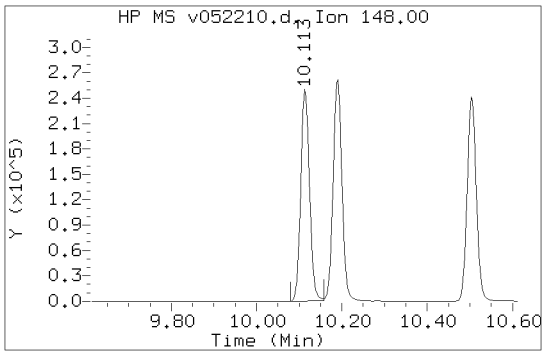
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AFTER

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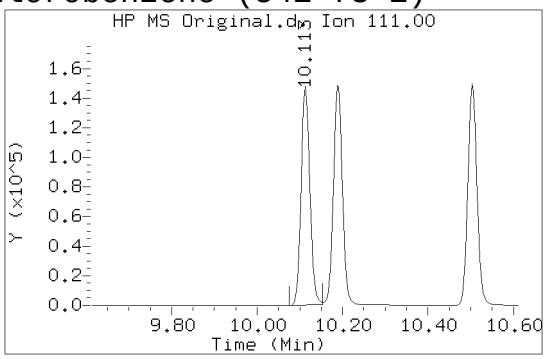
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InstruID : VOA9.i
LabSampID : VSTD150

1,3-Dichlorobenzene (541-73-1)

Reason Code:

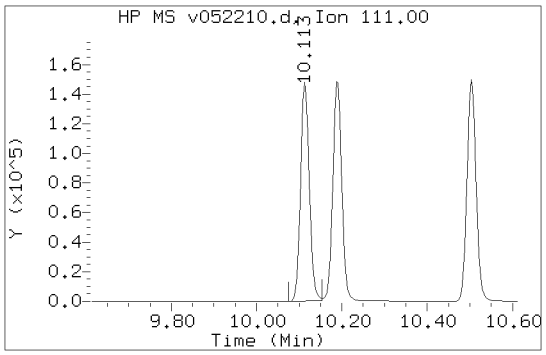
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AFTER

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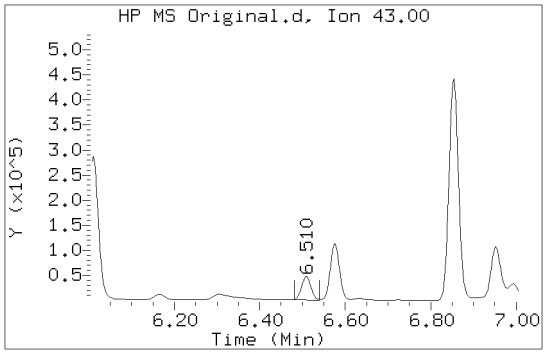


2-Nitropropane (79-46-9)

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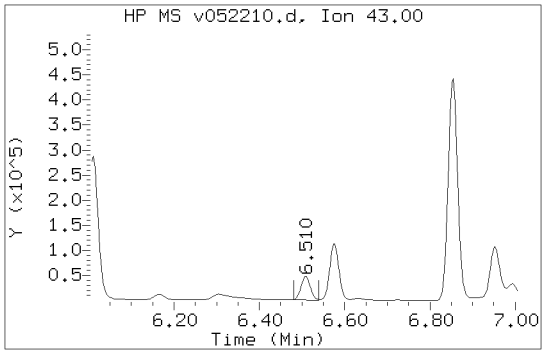
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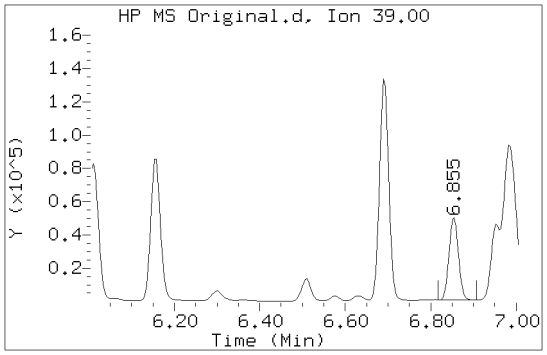
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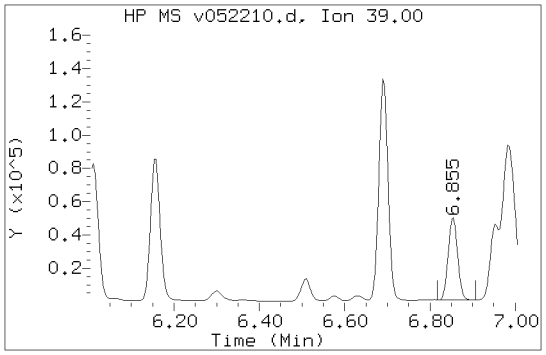
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AFTER

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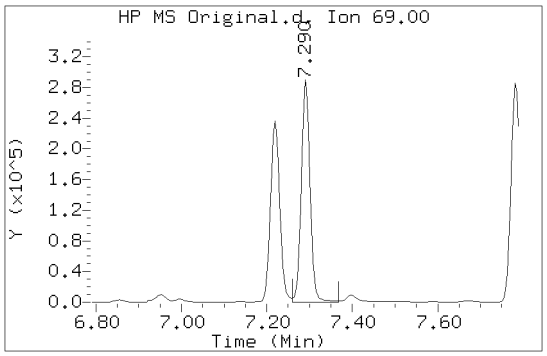


Ethyl Methacrylate (97-63-2)

Reason Code:

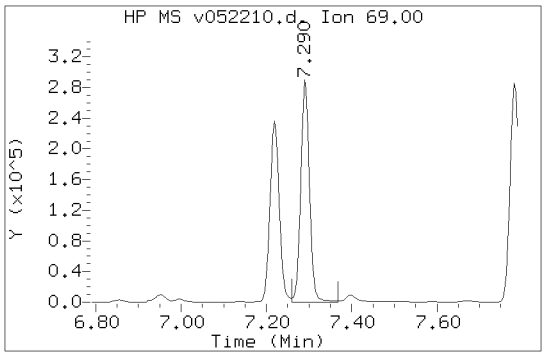
BEFORE

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289804
23-May-2024
09:51
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AFTER

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23-May-2024
09:51
firat
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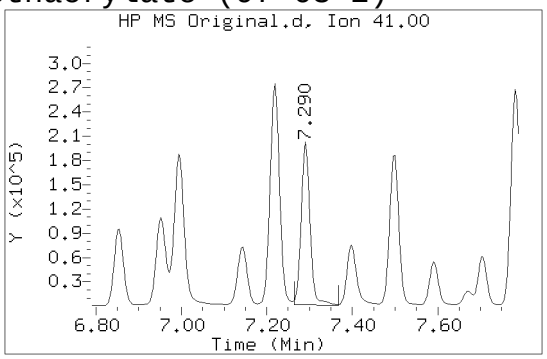
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InstruID : VOA9.i
LabSampID : VSTD150

Ethyl Methacrylate (97-63-2)

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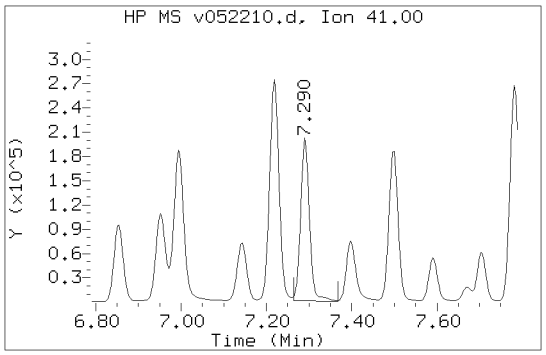
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AFTER

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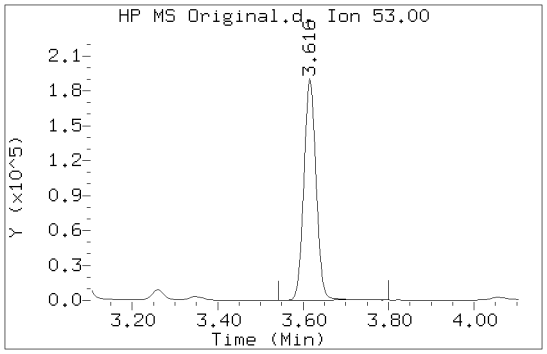


Chloroprene (126-99-8)

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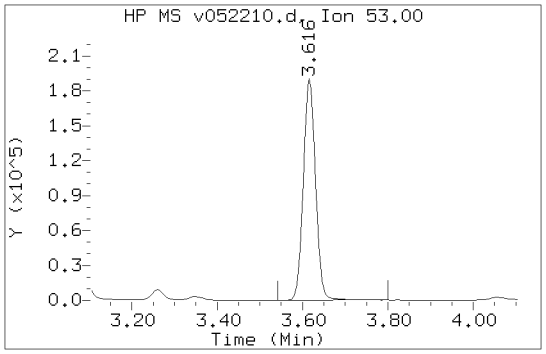
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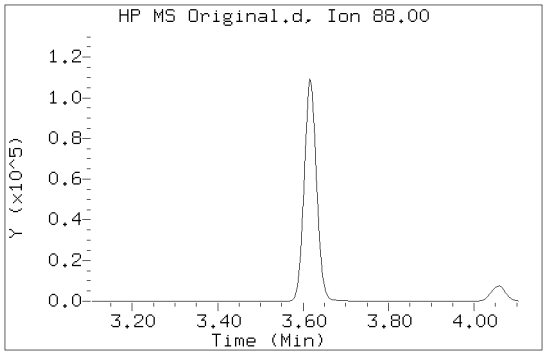
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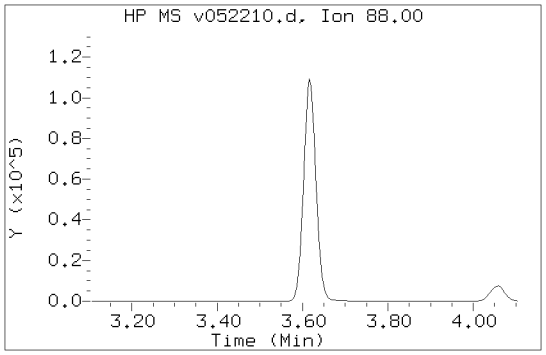
BEFORE

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AFTER

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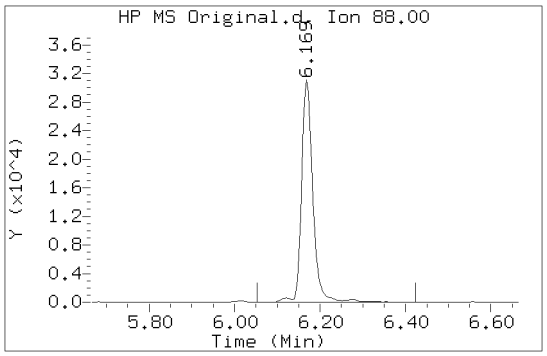


1,4-Dioxane ()

Reason Code:

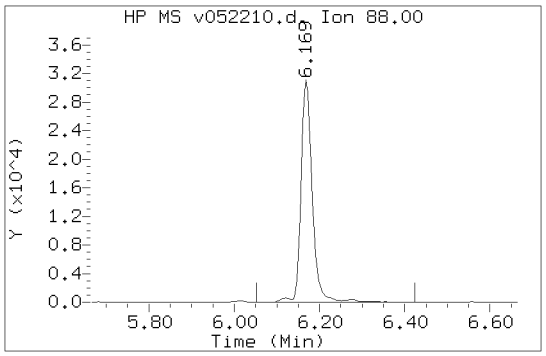
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AFTER

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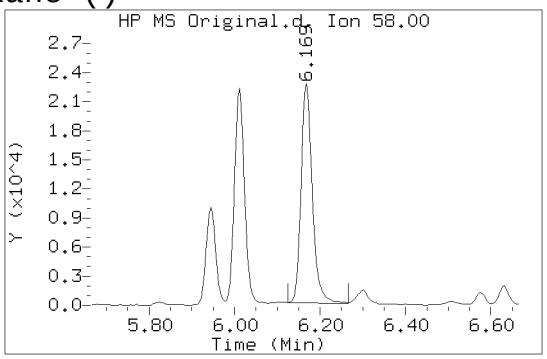
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LabSampID : VSTD150

1,4-Dioxane ()

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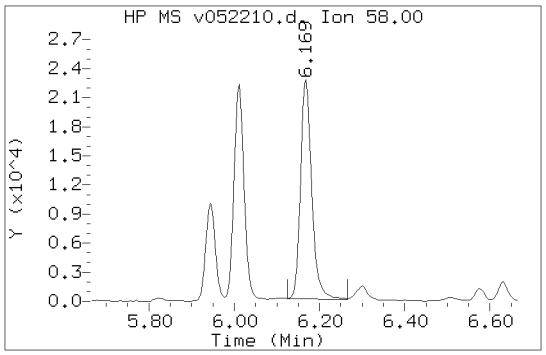
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AFTER

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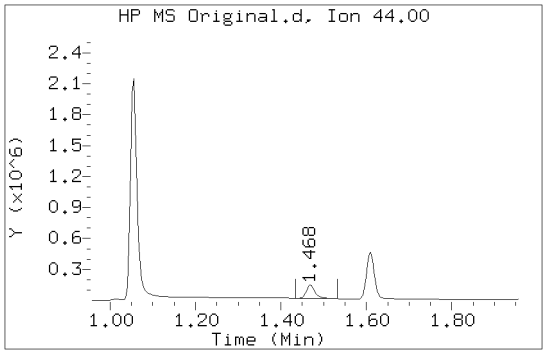


Acetaldehyde (75-07-0)

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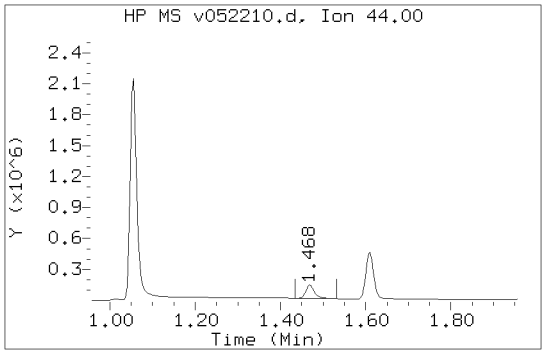
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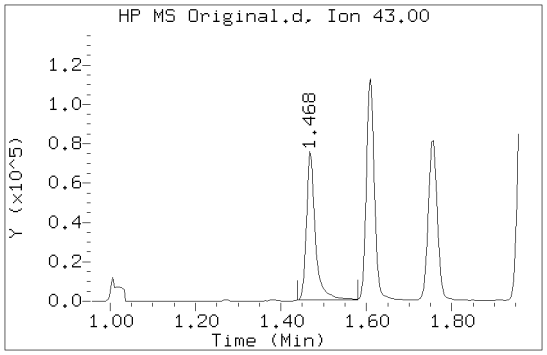
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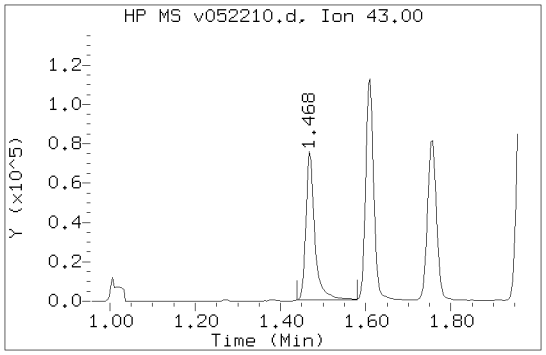
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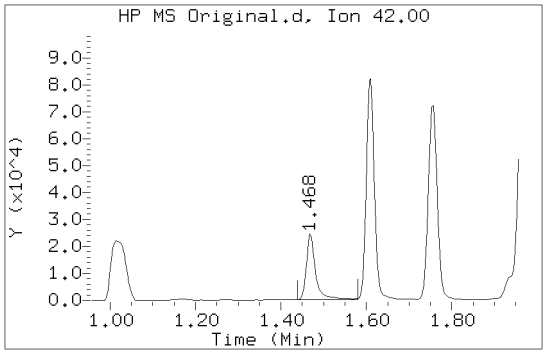
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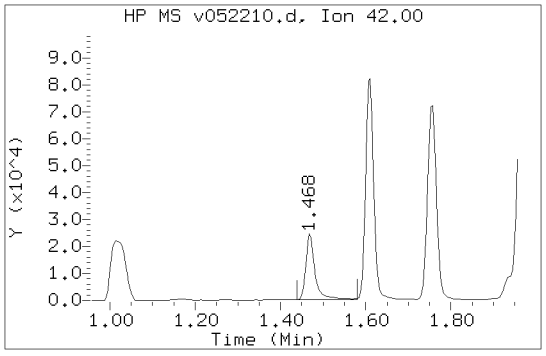
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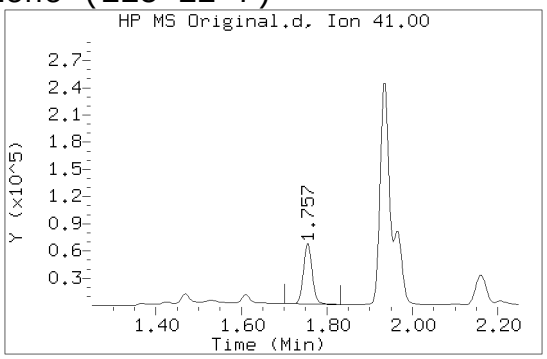


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LabSampID : VSTD150

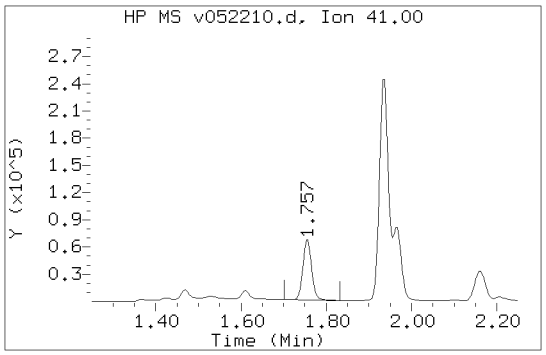
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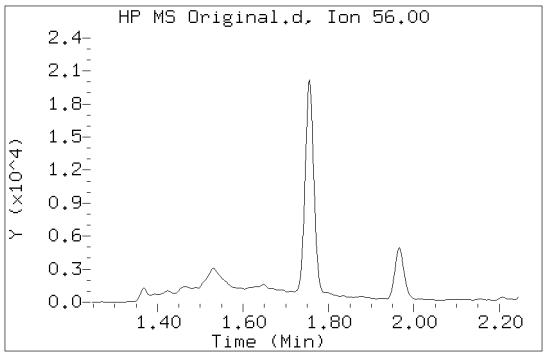
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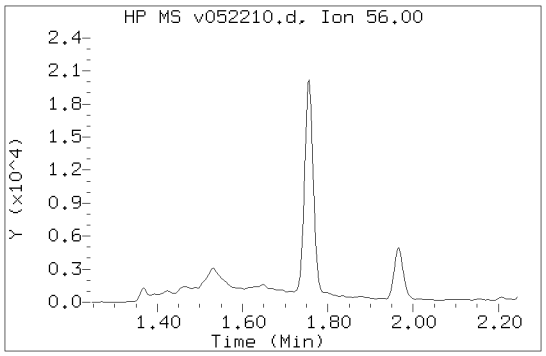
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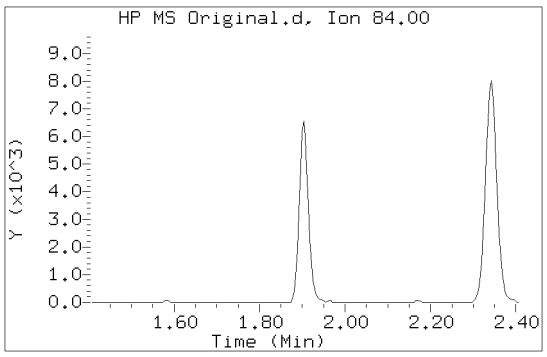
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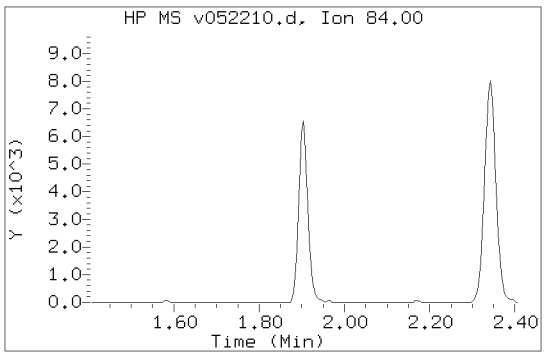
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Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D
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Inj Date : 22-MAY-2024 23:36
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Smp Info : VSTD200;VSTD200;1;10
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Cal Date : 22-MAY-2024 23:14 Cal File: V052210.D
Als bottle: 38 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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)	254127	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	266043	200.000	196.22(M)
3	Chloromethane	50	1.299	1.299	(0.270)	777289	200.000	98.55
4	Propionitrile	54	4.339	4.339	(0.901)	549038	2000.00	1709.90
5	Vinyl Chloride	62	1.381	1.381	(0.287)	439354	200.000	190.90
6	Bromomethane	94	1.610	1.610	(0.334)	156929	200.000	124.71
7	Chloroethane	64	1.696	1.696	(0.352)	291704	200.000	183.51
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	512939	200.000	195.27
9	Acrolein	56	2.266	2.266	(0.471)	34482	400.000	260.76
10	Acetone	43	2.412	2.412	(0.501)	261791	400.000	285.42
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	303302	200.000	189.64
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1273928	4000.00	4153.85(A)
13	Acetonitrile	39	2.675	2.675	(0.556)	392164	2000.00	1868.48
14	Allyl Chloride	41	2.675	2.675	(0.556)	947838	200.000	175.42
15	Iodomethane	142	2.469	2.469	(0.513)	314738	400.000	660.58(A)
16	Acrylonitrile	53	3.068	3.068	(0.637)	266324	400.000	330.95
17	Methylene Chloride	84	2.795	2.795	(0.580)	364439	200.000	115.91
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	899435	200.000	176.46
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1923765	400.000	397.44
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	332816	200.000	181.57

21 Vinyl Acetate	43	4.343	4.343 (0.902)	430445	400.000	342.54
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	632104	200.000	173.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	519657	200.000	185.48(M)
24	2-Butanone	43	4.264	4.264	(0.886)	411704	400.000	347.57
25	Methacrylonitrile	41	4.497	4.497	(0.934)	250943	200.000	187.57(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	456164	200.000	203.47(A)
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	398574	200.000	181.21
28	Chloroform	83	4.575	4.575	(0.950)	645327	200.000	176.38
29	Bromochloromethane	128	4.470	4.470	(0.928)	188513	200.000	173.93
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	343699	200.000	186.24
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	534218	200.000	208.57(A)
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	494827	200.000	188.40
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	502406	200.000	172.22
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	452845	200.000	212.15(A)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	404807	200.000	174.64
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	371900	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	1506050	200.000	177.34
38	Trichloroethene	130	5.786	5.786	(1.042)	382844	200.000	185.71
39	Bromodichloromethane	83	6.277	6.277	(1.130)	483633	200.000	213.58(A)
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	141715	200.000	178.37
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	365558	400.000	505.50(A)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	409712	200.000	173.89
43	2-Nitropropane	43	6.506	6.506	(1.351)	103519	200.000	237.39(AM)
44	Dibromomethane	93	6.120	6.120	(1.102)	232839	200.000	181.56
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	919104	400.000	392.84
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	607129	200.000	232.46(A)
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	339173	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1284061	200.000	186.37
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	576848	200.000	210.25(M)
50	Toluene	91	6.978	6.978	(0.853)	1552231	200.000	181.08
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	509892	200.000	250.20(A)
52	2-Hexanone	43	7.589	7.589	(0.928)	625529	400.000	399.26
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	291834	200.000	172.40
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	637919	200.000	179.21
55	Dibromochloromethane	129	7.691	7.691	(0.940)	388512	200.000	233.72(A)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	302775	200.000	187.36
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	351203	200.000	193.60
58	1-Chlorohexane	55	8.197	8.197	(1.476)	347980	200.000	116.81
59	Chlorobenzene	112	8.208	8.208	(1.003)	999180	200.000	171.22
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	369070	200.000	208.57(A)
61	Ethylbenzene	106	8.305	8.305	(1.015)	523853	200.000	190.66
62	m,p-Xylenes	106	8.407	8.407	(1.027)	1307803	400.000	387.62
63	o-Xylene	106	8.744	8.744	(1.069)	638558	200.000	193.35
64	Styrene	104	8.759	8.759	(1.071)	1127425	200.000	201.25(A)
66	Bromoform	173	8.916	8.916	(1.090)	268349	200.000	259.24(A)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	1623884	200.000	198.28
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	495269	200.000	176.67
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	472873	200.000	179.81
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	182636	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	536785	200.000	191.96
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	121414	200.000	200.55(A)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1829443	200.000	193.94
74	Bromobenzene	156	9.314	9.314	(0.916)	438638	200.000	182.61
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1351352	200.000	207.58(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1126049	200.000	184.23
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1312288	200.000	188.52

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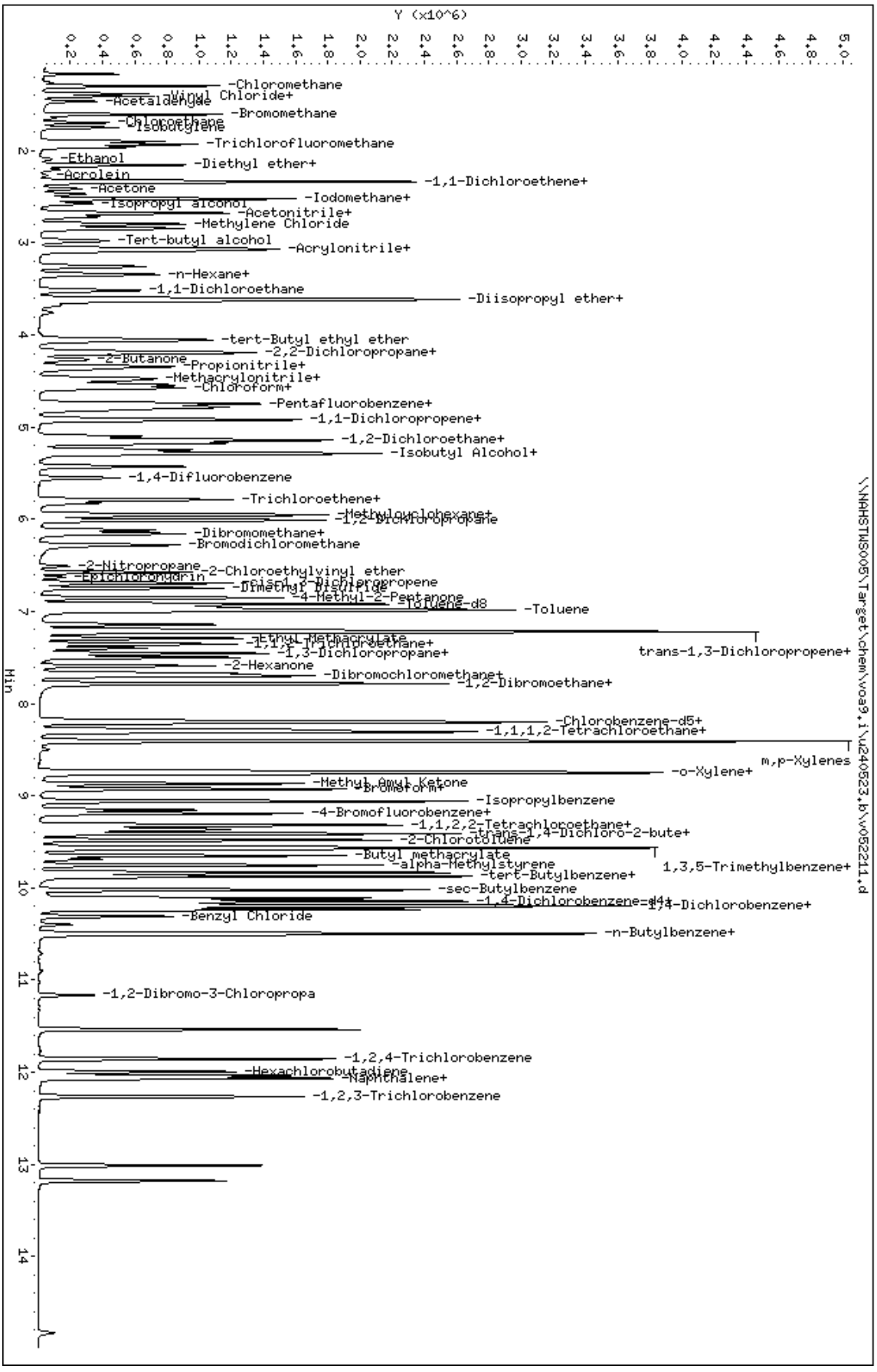
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1142905	200.000	200.13(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1329724	200.000	199.11
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1570064	200.000	206.90(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1403911	200.000	212.48(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	778320	200.000	180.23(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	800109	200.000	165.96
86	Benzyl Chloride	91	10.307	10.307	(1.260)	544172	200.000	146.89
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1247444	200.000	194.50
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	765245	200.000	175.00
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	75288	200.000	243.40(A)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	553105	200.000	201.73(A)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	231334	200.000	192.02
92	Naphthalene	128	12.065	12.065	(1.187)	1271832	200.000	218.68(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	497537	200.000	194.88
146	Methyl acetate	43	2.716	2.716	(0.564)	389125	200.000	153.64
138	Freon TF	101	2.337	2.337	(0.485)	574722	200.000	210.02(A)
141	Cyclohexane	56	4.785	4.785	(0.994)	565382	200.000	122.74
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	138786	400.000	288.31
147	Methylcyclohexane	55	5.944	5.944	(1.070)	958101	200.000	214.59(A)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	75607	4000.00	2627.45(M)
132	n-Butanol	56	5.824	5.824	(1.209)	206844	4000.00	4321.40(A)
136	n-Hexane	57	3.346	3.346	(0.695)	379527	200.000	190.98
139	Diethyl ether	59	2.150	2.150	(0.447)	254190	200.000	180.50
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	519651	4000.00	3438.21
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	416717	4000.00	3420.73
152	Amyl alcohol	42	7.398	7.398	(0.904)	241673	4000.00	4062.03(A)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	1170909	200.000	175.59
162	Butyl acrylate	55	8.729	8.729	(1.067)	852552	200.000	237.66(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	769469	200.000	200.52(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1661176	200.000	175.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1224350	200.000	197.72
167	Ethanol	45	2.094	2.094	(0.435)	79955	4000.00	3215.95
172	tert-Butyl formate	59	5.246	5.246	(1.090)	589770	400.000	403.04(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	877631	4000.00	3915.17
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	1087922	200.000	193.57
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	1086587	200.000	192.34
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	589770	4000.00	4049.64(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2584636	4000.00	4647.51(A)
140	1,3-Butadiene	54	1.408	1.408	(0.292)	196140	200.000	195.34
182	Epichlorohydrin	57	6.630	6.630	(1.194)	114215	800.000	843.79(A)
M 94	1,2-Dichloroethylene (total)	96				731390	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	585888	200.000	218.97(A)
130	Ethyl Acetate	43	4.343	4.343	(0.902)	430445	200.000	173.57
131	Methyl Acrylate	55	4.369	4.369	(0.907)	453745	200.000	186.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	733335	200.000	209.70(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	373518	4000.00	3537.61
185	Isoprene	39	2.161	2.161	(0.449)	89602	200.000	207.42(A)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	1268452	200.000	203.66(A)
150	Allyl alcohol	57	3.346	3.346	(0.695)	379527	4000.00	3819.70
194	Acetaldehyde	44	1.464	1.464	(0.304)	261202	800.000	762.52(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	922386	200.000	216.88
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	470332	200.000	438.88(A)

202 Isobutylene	41	1.749	1.749 (0.363)	133462	200.000	229.75(AM)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	958101	200.000	213.83(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	474934	200.000	191.14
159 Propylene oxide	43	2.202	2.202	(0.457)	52739	400.000	274.37(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	486134	200.000	274.03(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.



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Sample Info: VSTD200;VSTD200;1;10
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

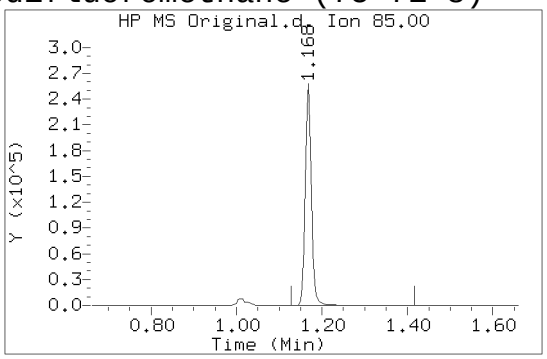
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Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

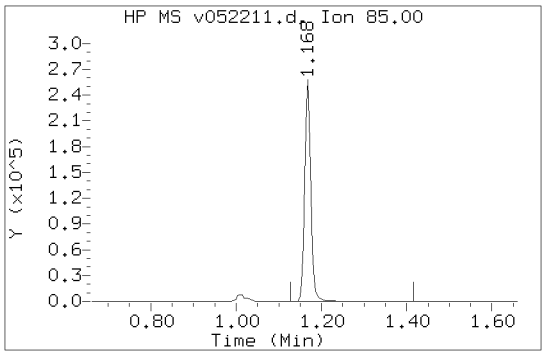
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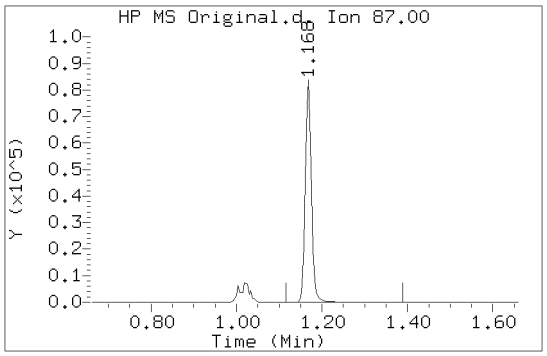
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tastan



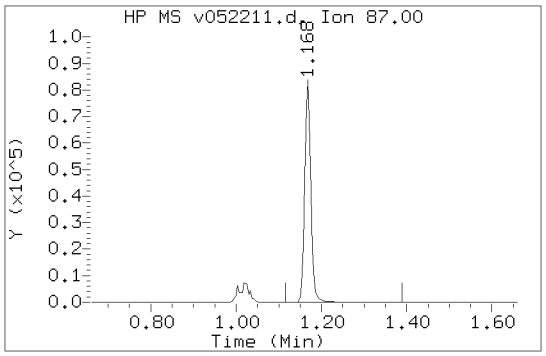
BEFORE

MASS
87
AREA
86643
HEIGHT
83792
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
86643
HEIGHT
83792
23-May-2024
09:51
firat
tastan

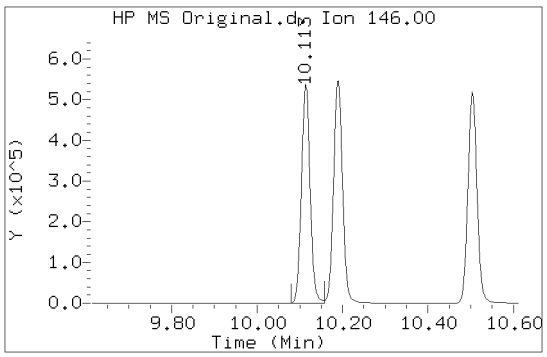


1,3-Dichlorobenzene (541-73-1)

Reason Code:

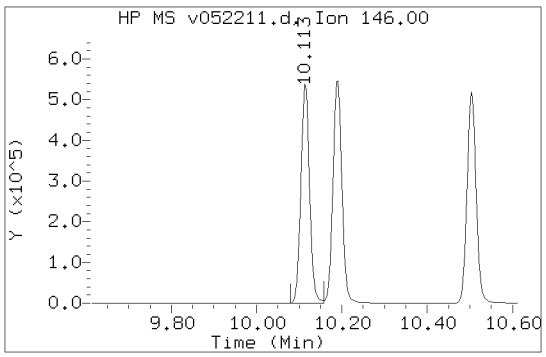
BEFORE

MASS
146
AREA
778320
HEIGHT
538416
23-May-2024
09:51
firat
tastan



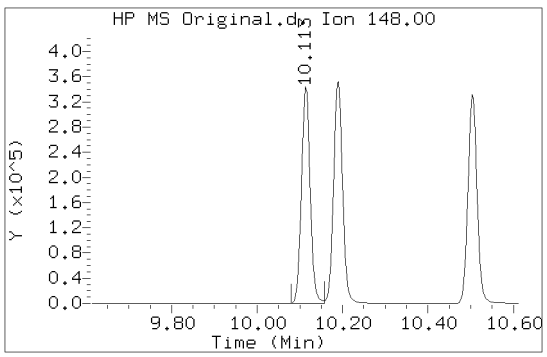
AFTER

MASS
146
AREA
778320
HEIGHT
538416
23-May-2024
09:51
firat
tastan



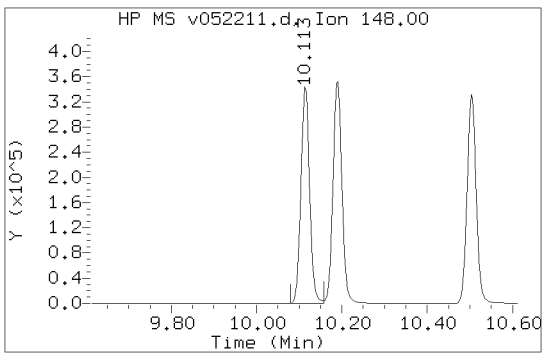
BEFORE

MASS
148
AREA
498224
HEIGHT
343264
23-May-2024
09:51
firat
tastan



AFTER

MASS
148
AREA
498224
HEIGHT
343264
23-May-2024
09:51
firat
tastan



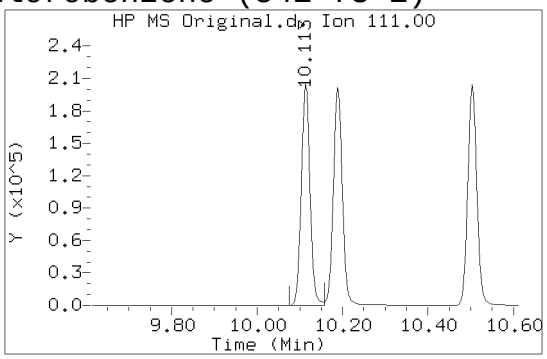
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Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

1,3-Dichlorobenzene (541-73-1)

Reason Code:

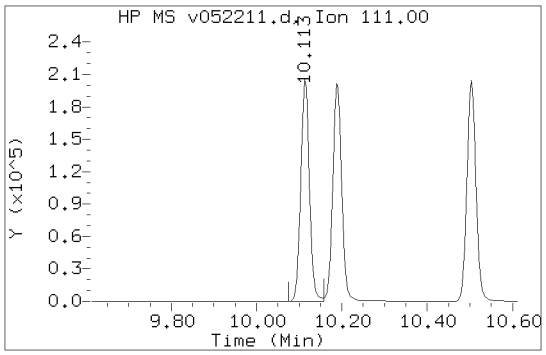
BEFORE

MASS
111
AREA
295566
HEIGHT
205033
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
295566
HEIGHT
205033
23-May-2024
09:51
firat
tastan

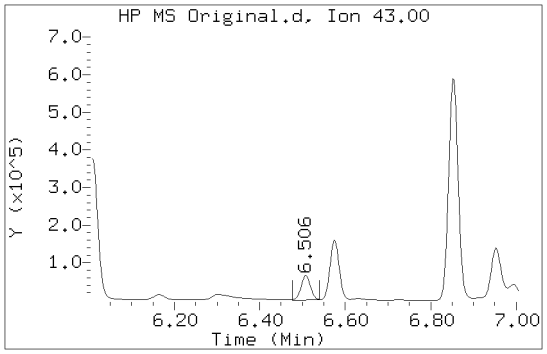


2-Nitropropane (79-46-9)

Reason Code:

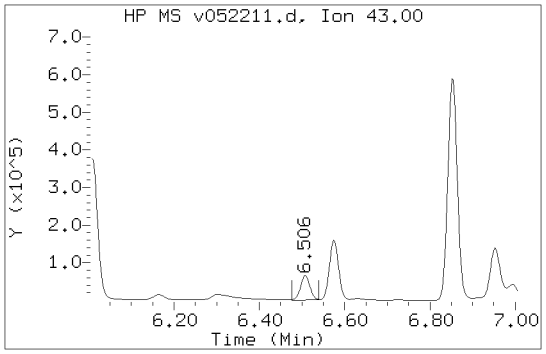
BEFORE

MASS
43
AREA
103519
HEIGHT
65920
23-May-2024
09:51
firat
tastan



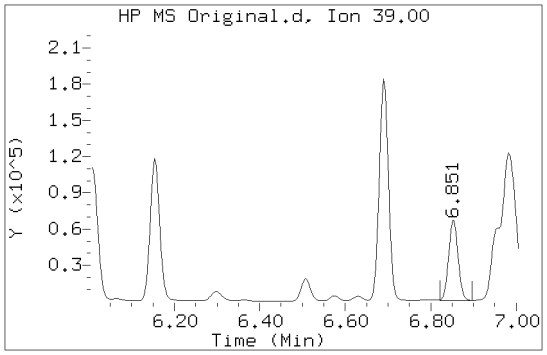
AFTER

MASS
43
AREA
103519
HEIGHT
65920
23-May-2024
09:51
firat
tastan



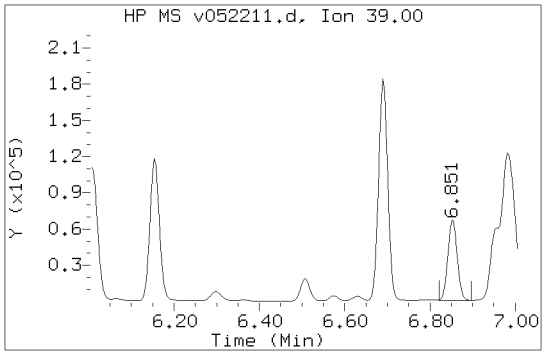
BEFORE

MASS
39
AREA
101574
HEIGHT
66574
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
101574
HEIGHT
66574
23-May-2024
09:51
firat
tastan

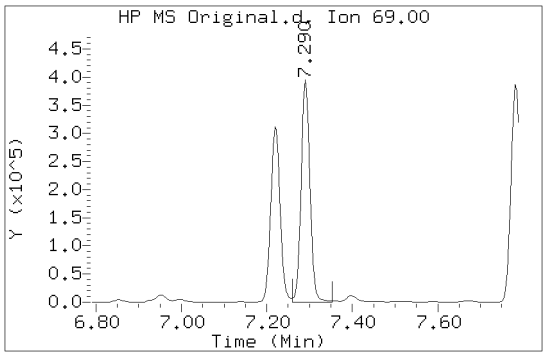


Ethyl Methacrylate (97-63-2)

Reason Code:

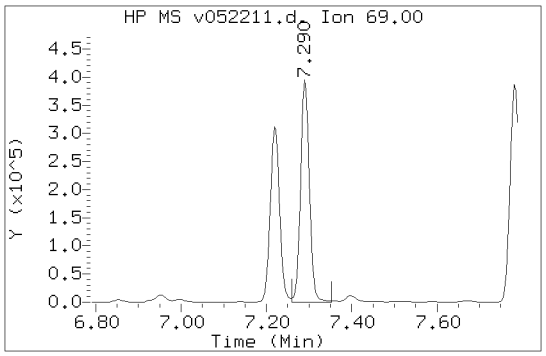
BEFORE

MASS
69
AREA
576848
HEIGHT
394745
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
576848
HEIGHT
394745
23-May-2024
09:51
firat
tastan

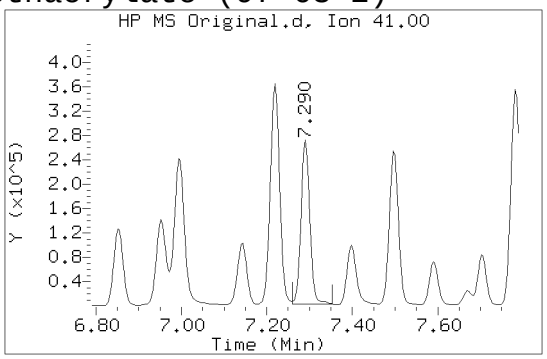


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Methacrylate (97-63-2)

BEFORE

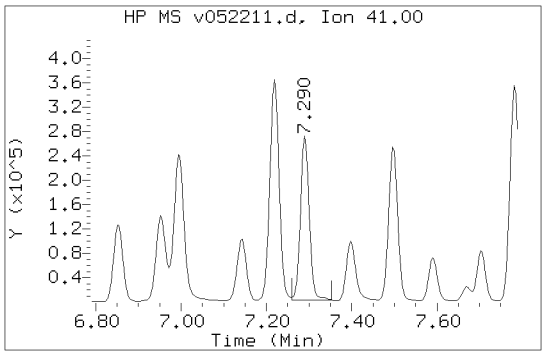
MASS
41
AREA
394659
HEIGHT
269462
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

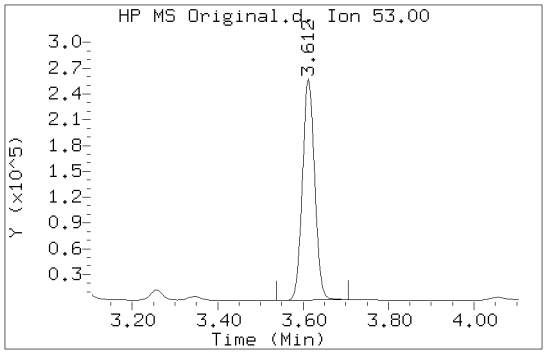
MASS
41
AREA
394659
HEIGHT
269462
23-May-2024
09:51
firat
tastan



Chloroprene (126-99-8)

BEFORE

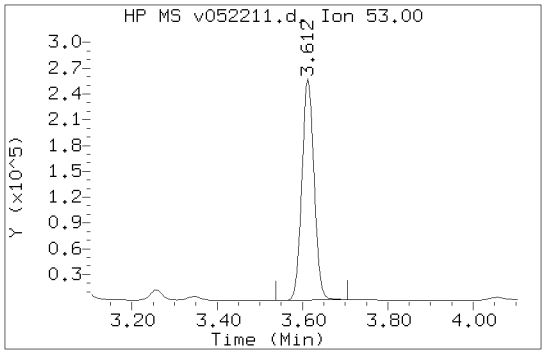
MASS
53
AREA
519657
HEIGHT
257257
23-May-2024
09:51
firat
tastan



Reason Code:

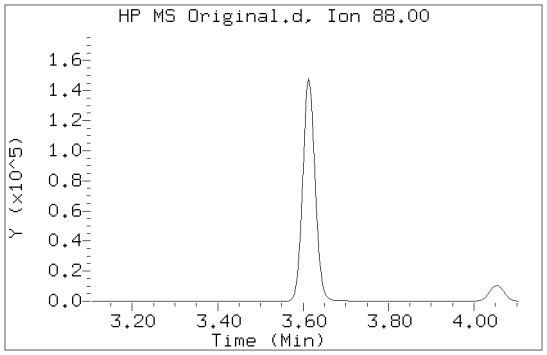
AFTER

MASS
53
AREA
519657
HEIGHT
257257
23-May-2024
09:51
firat
tastan



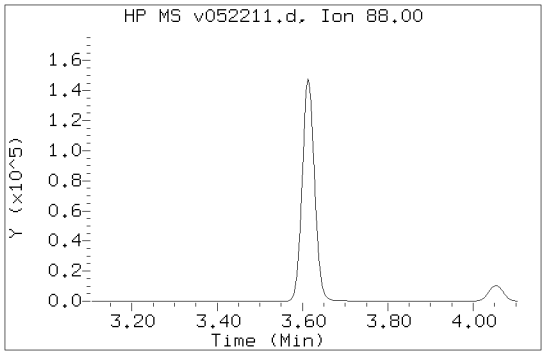
BEFORE

MASS
88
AREA
831
HEIGHT
463
23-May-2024
09:51
firat
tastan



AFTER

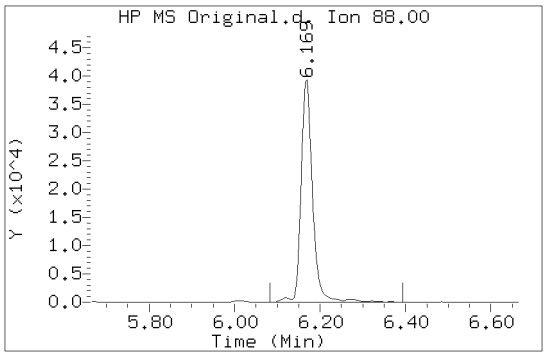
MASS
88
AREA
831
HEIGHT
463
23-May-2024
09:51
firat
tastan



1,4-Dioxane ()

BEFORE

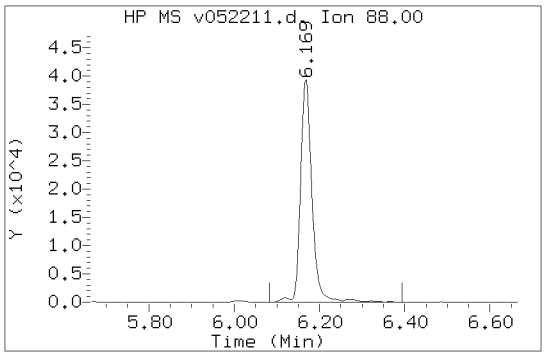
MASS
88
AREA
75607
HEIGHT
39312
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

MASS
88
AREA
75607
HEIGHT
39312
23-May-2024
09:51
firat
tastan



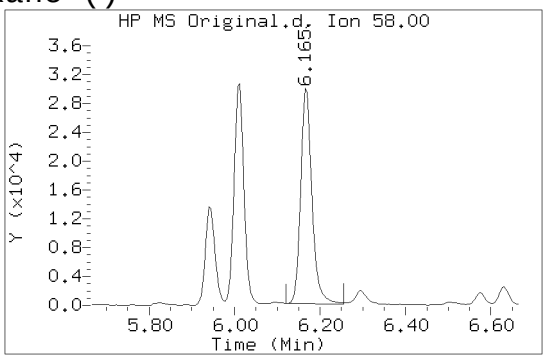
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

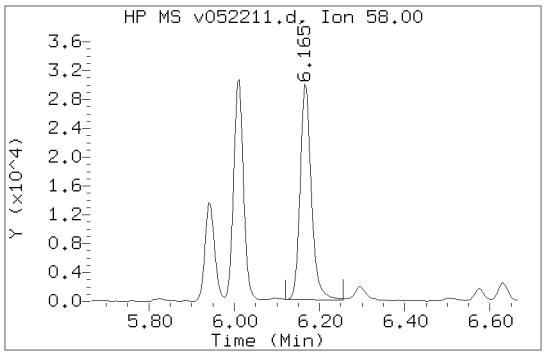
BEFORE

MASS
58
AREA
55863
HEIGHT
29945
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
55863
HEIGHT
29945
23-May-2024
09:51
firat
tastan

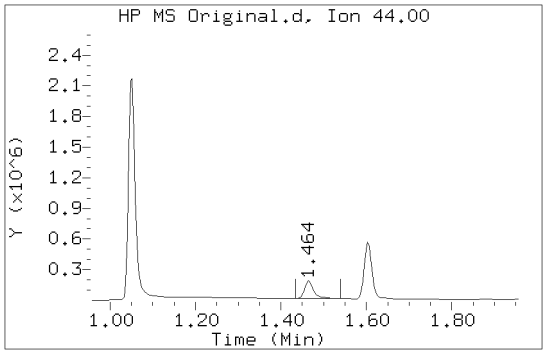


Acetaldehyde (75-07-0)

Reason Code:

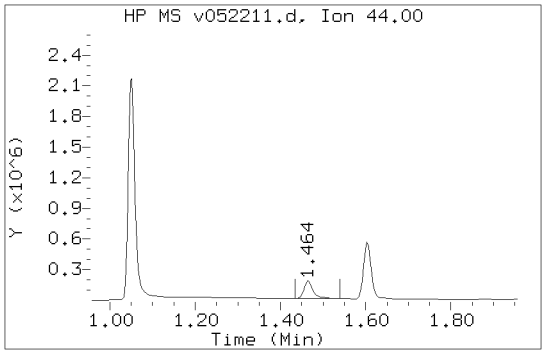
BEFORE

MASS
44
AREA
261202
HEIGHT
176490
23-May-2024
09:51
firat
tastan



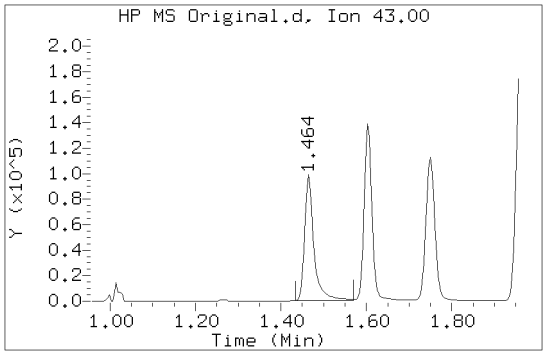
AFTER

MASS
44
AREA
261202
HEIGHT
176490
23-May-2024
09:51
firat
tastan



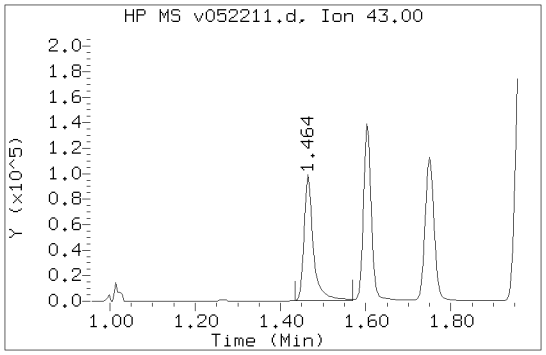
BEFORE

MASS
43
AREA
153533
HEIGHT
98953
23-May-2024
09:51
firat
tastan



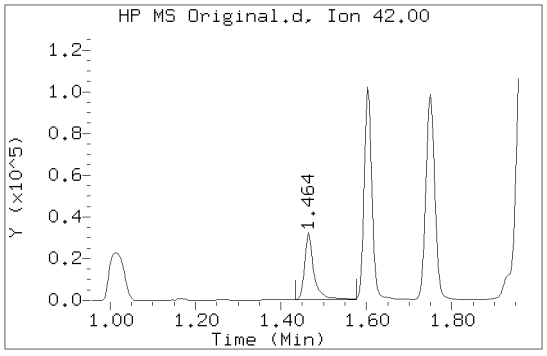
AFTER

MASS
43
AREA
153533
HEIGHT
98953
23-May-2024
09:51
firat
tastan



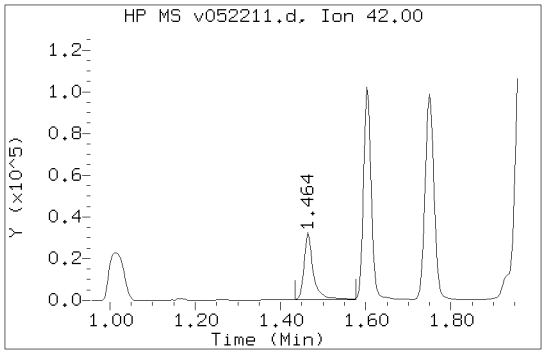
BEFORE

MASS
42
AREA
49680
HEIGHT
32249
23-May-2024
09:51
firat
tastan



AFTER

MASS
42
AREA
49680
HEIGHT
32249
23-May-2024
09:51
firat
tastan



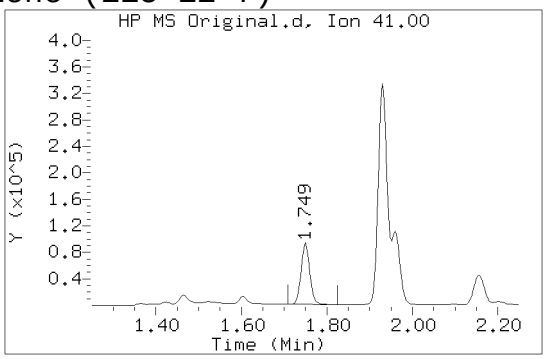
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

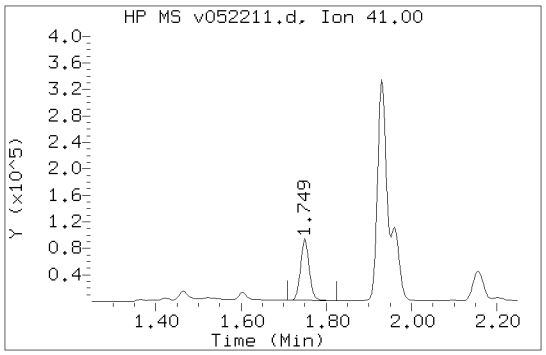
BEFORE

MASS
41
AREA
133462
HEIGHT
92789
23-May-2024
09:51
firat
tastan



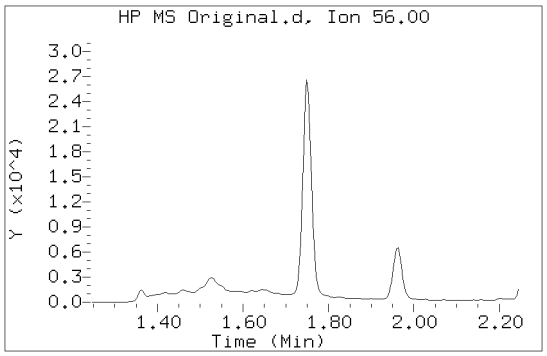
AFTER

MASS
41
AREA
133462
HEIGHT
92789
23-May-2024
09:51
firat
tastan



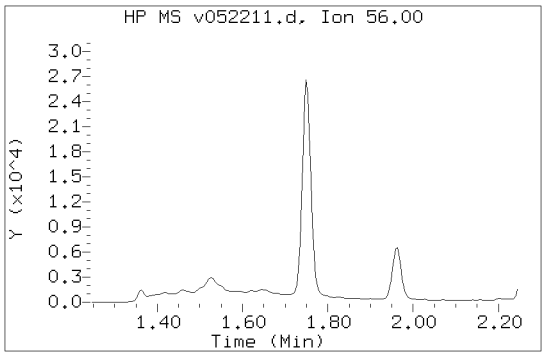
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



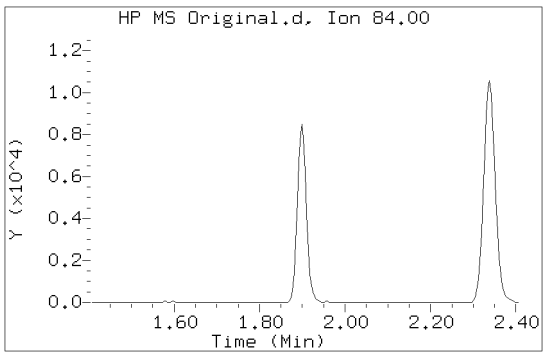
AFTER

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



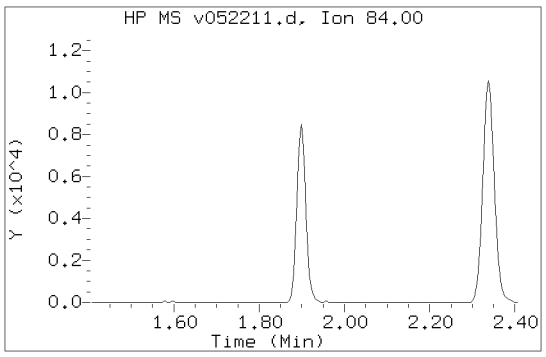
BEFORE

MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D Page 1
Report Date: 23-May-2024 10:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-MAY-2024 00:19
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\U240523.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: 40 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	
9.190	9.180	(0.000)	95	55384			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	10560			15.00- 40.00	19.07
9.190	9.180	(0.000)	75	27168			30.00- 60.00	49.05
9.190	9.180	(0.000)	96	3840			5.00- 9.00	6.93
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	45424			50.00- 0.00	82.02
9.190	9.180	(0.000)	175	4058			5.00- 9.00	8.93
9.190	9.180	(0.000)	176	44520			95.00- 101.00	98.01
9.190	9.180	(0.000)	177	3139			5.00- 9.00	7.05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.07
75	30.00 - 60.00% of mass 95	49.05
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.02
175	5.00 - 9.00% of mass 174	7.33 (8.93)
176	95.00 - 101.00% of mass 174	80.38 (98.01)
177	5.00 - 9.00% of mass 176	5.67 (7.05)

Data File: V052213.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	597	60.00	519	87.00	2712	130.60	56
37.00	2836	61.00	2531	88.00	2266	134.80	116
38.10	2622	62.00	2488	90.90	237	136.70	95
39.00	1123	63.00	1846	92.00	1508	140.00	79
40.00	196	64.00	220	93.00	2219	140.90	558
40.80	64	65.00	227	94.10	6749	141.90	73
41.90	64	67.00	165	95.00	55384	142.90	511
42.90	61	68.00	5698	96.00	3840	145.80	108
44.00	469	69.00	5429	97.00	182	147.90	158
45.10	571	70.00	454	103.80	243	154.80	151
46.10	91	72.00	279	105.00	71	157.00	93
47.00	963	73.00	2440	105.80	161	158.90	83
48.00	405	74.00	9057	110.90	53	170.60	54
49.00	2411	75.00	27168	114.80	63	172.00	244
50.00	10560	76.00	2593	115.90	198	173.90	45424
51.00	3320	77.00	436	116.80	310	175.00	4058
52.00	209	77.90	284	117.80	187	175.90	44520
55.10	157	78.90	1360	118.90	228	176.90	3139
56.00	769	79.90	465	127.80	188	177.90	111
57.00	1405	80.90	1396	128.80	112		
58.00	64	81.90	383	129.90	206		

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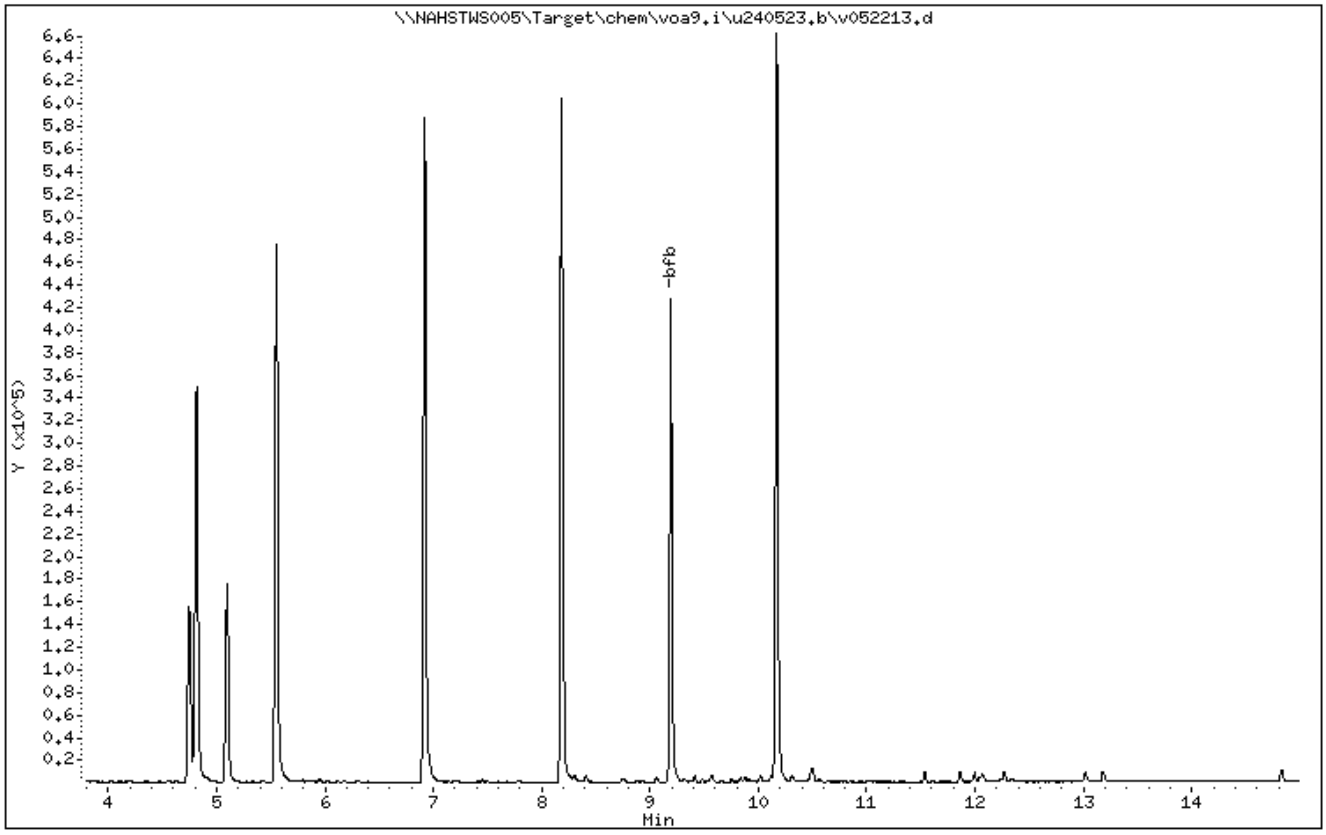
Date : 23-MAY-2024 00:19

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



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LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D Page 1
Report Date: 30-May-2024 15:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 23-MAY-2024 00:40
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 30-May-2024 15:51 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 41 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.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	4.811	4.811	(1.000)	256774	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	59672	43.5593	43.55
3 Chloromethane	50	1.291	1.291	(0.268)	192742	40.3428	40.34
4 Propionitrile	54	4.332	4.332	(0.900)	132887	517.220	517.21
5 Vinyl Chloride	62	1.374	1.374	(0.286)	98648	42.4217	42.42
6 Bromomethane	94	1.614	1.614	(0.335)	42052	59.9217	59.92(M)
7 Chloroethane	64	1.696	1.696	(0.353)	67224	41.0051	41.00
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	117689	44.3426	44.34
9 Acrolein	56	2.262	2.262	(0.470)	8561	88.9912	88.99
10 Acetone	43	2.405	2.405	(0.500)	65032	89.1559	89.15
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	69327	42.9012	42.90
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	262424	975.790	975.79
13 Acetonitrile	39	2.667	2.667	(0.554)	91428	431.122	431.12
14 Allyl Chloride	41	2.667	2.667	(0.554)	222311	47.5574	47.55
15 Iodomethane	142	2.465	2.465	(0.512)	45807	136.814	136.81(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	64289	96.6548	96.65
17 Methylene Chloride	84	2.791	2.791	(0.580)	89327	47.1428	47.14
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	215952	49.0879	49.08
19 Carbon Disulfide	76	2.517	2.517	(0.523)	433825	88.7035	88.70
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	77197	41.6814	41.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	102908	95.7909	95.79
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	147412	46.6280	46.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	121286	42.8445	42.84
	24 2-Butanone	43	4.260	4.260	(0.885)	96483	89.8653	89.86
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	57364	47.4045	47.40(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	95496	42.1566	42.15
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	94608	42.5705	42.57
	28 Chloroform	83	4.571	4.571	(0.950)	153247	46.6993	46.69
	29 Bromochloromethane	128	4.467	4.467	(0.928)	46588	48.0571	48.05
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	80837	48.2575	48.25
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	117753	45.5007	45.50
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	114226	43.7729	43.77
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	119851	46.3491	46.34
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	94161	44.3980	44.39
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	97161	47.7548	47.75
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369512	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	355683	46.7834	46.78
	38 Trichloroethene	130	5.786	5.786	(1.043)	89483	43.6889	43.68
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	103909	46.1851	46.18
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	29777	45.0602	45.06
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	72299	92.7846	92.78
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94341	45.8455	45.84
	43 2-Nitropropane	43	6.506	6.506	(1.352)	19791	52.3230	52.32
	44 Dibromomethane	93	6.116	6.116	(1.102)	54058	42.4260	42.42
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	205245	90.2608	90.26
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	127163	49.0040	49.00
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	329651	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	299125	48.9458	48.94
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	123792	45.4121	45.41
	50 Toluene	91	6.978	6.978	(0.853)	367758	44.1426	44.14
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	103705	45.9063	45.90
	52 2-Hexanone	43	7.589	7.589	(0.928)	132702	87.1486	87.14
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	69294	47.4612	47.46
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	151595	48.2648	48.26
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	82603	51.1276	51.12
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68649	43.7097	43.70
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	81597	46.2805	46.28
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	74255	45.2616	45.26
	59 Chlorobenzene	112	8.208	8.208	(1.003)	231374	47.3351	47.33
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	80698	46.9216	46.92
	61 Ethylbenzene	106	8.305	8.305	(1.015)	119800	44.8617	44.86
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	300390	91.6060	91.60
	63 o-Xylene	106	8.744	8.744	(1.069)	147141	45.8422	45.84
	64 Styrene	104	8.759	8.759	(1.071)	257090	47.2195	47.21
	66 Bromoform	173	8.916	8.916	(1.090)	51437	46.7164	46.71
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	370164	46.5053	46.50
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	116188	48.8473	48.84
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112378	49.5838	49.58
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	175372	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	116429	48.0039	48.00
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	24309	45.5778	45.57
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	428843	47.3461	47.34
	74 Bromobenzene	156	9.314	9.314	(0.916)	100354	43.5092	43.50
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	303955	48.6254	48.62

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	261138	44.4940	44.49
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303229	45.3659	45.36

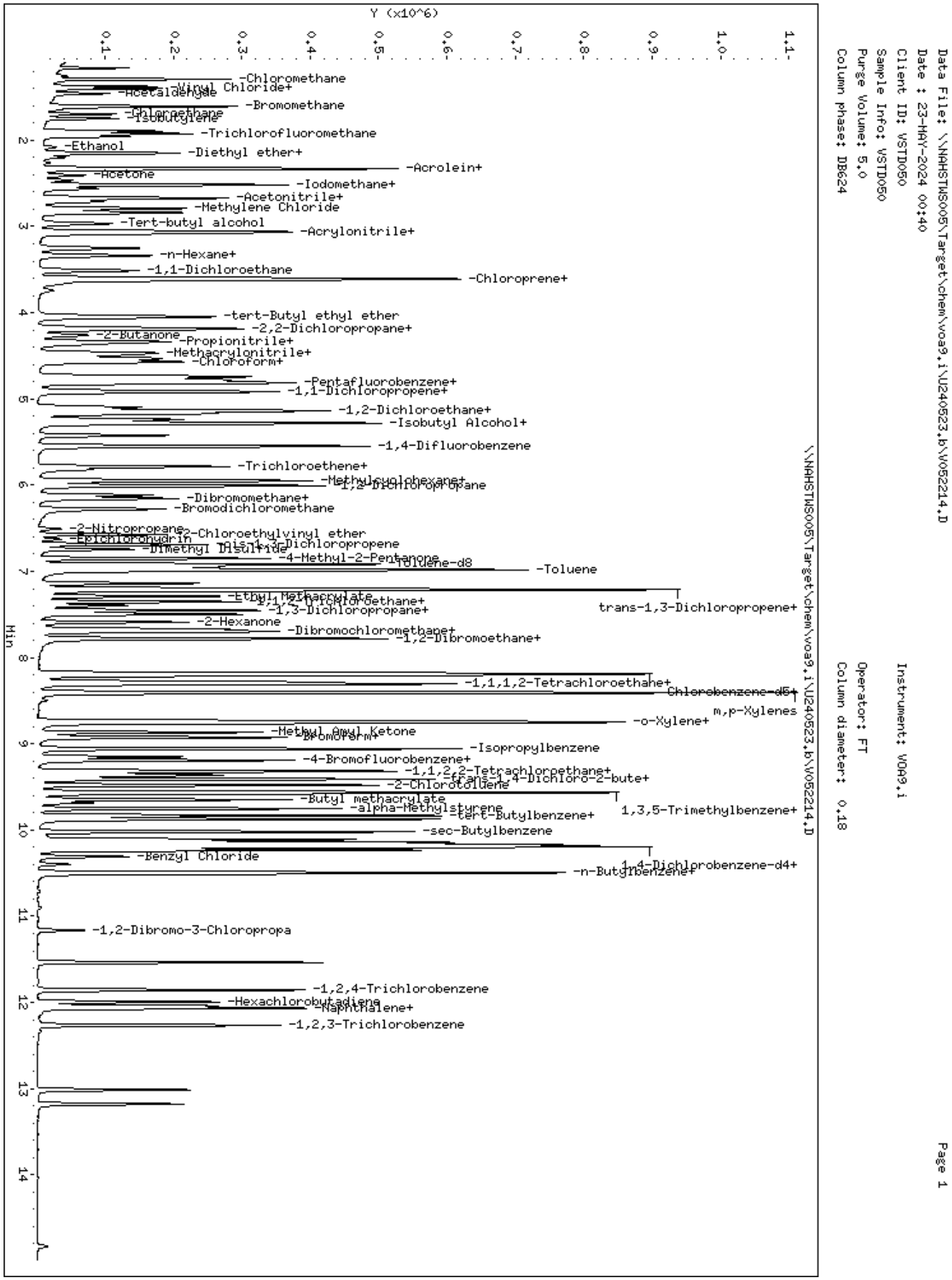
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	260301	47.4705	47.47
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	301186	46.9691	46.96
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	353775	48.5521	48.55
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	310891	49.0039	49.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	177998	48.0431	48.04
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	183767	47.6271	47.62
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89470	42.8619	42.86
87	n-Butylbenzene	91	10.491	10.491	(1.032)	270503	46.2757	46.27
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	176176	48.3301	48.33
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	13988	47.0603	47.06
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	119999	45.5814	45.58
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48550	45.7993	45.79
92	Naphthalene	128	12.065	12.065	(1.187)	277022	49.6057	49.60
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	109055	44.4865	44.48
146	Methyl acetate	43	2.708	2.708	(0.563)	96347	47.9929	47.99
138	Freon TF	101	2.333	2.333	(0.485)	128629	46.5222	46.52
141	Cyclohexane	56	4.781	4.781	(0.994)	131730	46.5436	46.54
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	33813	102.774	102.77
147	Methylcyclohexane	55	5.943	5.943	(1.071)	208816	47.0727	47.07
135	1,4-Dioxane	88	6.165	6.165	(1.281)	16722	890.906	890.90
132	n-Butanol	56	5.820	5.820	(1.210)	43068	890.505	890.50
136	n-Hexane	57	3.338	3.338	(0.694)	81430	44.3009	44.30
139	Diethyl ether	59	2.142	2.142	(0.445)	59003	48.3580	48.35
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	120514	1056.67	1056.66
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	94144	1015.00	1015.00
152	Amyl alcohol	42	7.394	7.394	(0.904)	46565	931.959	931.95
156	Diisopropyl ether	45	3.616	3.616	(0.751)	282898	47.9601	47.96
162	Butyl acrylate	55	8.729	8.729	(1.067)	158132	45.3553	45.35
187	n-Amyl acetate	43	8.927	8.927	(1.091)	153412	46.6806	46.68
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	379168	49.4423	49.44
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	287223	48.3048	48.30
167	Ethanol	45	2.079	2.079	(0.432)	18144	1012.61	1012.61
172	tert-Butyl formate	59	5.239	5.239	(1.089)	108746	97.1373	97.13
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	178917	1020.80	1020.80
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	255340	44.9634	44.96
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	255428	44.7481	44.74
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	108746	955.730	955.72
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	514919	931.875	931.87
140	1,3-Butadiene	54	1.400	1.400	(0.291)	46335	45.6715	45.67
182	Epichlorohydrin	57	6.629	6.629	(1.195)	23633	199.194	199.19
M 94	1,2-Dichloroethylene (total)	96				171805	84.3327	84.33
M 95	Xylenes (total)	106				447531	135.752	135.75
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	125019	48.6605	48.66
130	Ethyl Acetate	43	4.335	4.335	(0.901)	102908	47.9401	47.94
131	Methyl Acrylate	55	4.365	4.365	(0.907)	106805	48.5323	48.53
189	n-Butyl acetate	43	7.702	7.702	(0.941)	149948	44.1175	44.11
134	Cyclohexanone	55	9.149	9.149	(0.900)	82981	883.288	883.28
185	Isoprene	39	2.154	2.154	(0.448)	19937	45.6770	45.67
188	Isopropyl acetate	43	5.280	5.280	(0.951)	262618	49.1593	49.15
150	Allyl alcohol	57	3.338	3.338	(0.694)	81430	886.019	886.01
194	Acetaldehyde	44	1.456	1.456	(0.303)	62845	181.573	181.57(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	181078	43.8085	43.80

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	54766	47.9378	47.93
202 Isobutylene	41	1.749	1.749 (0.364)	28670	45.6668	45.66(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.943	(1.235)	208816	46.1239	46.12
163 Butyl methacrylate	41	9.647	9.647	(0.949)	94541	48.2574	48.25
159 Propylene oxide	43	2.199	2.199	(0.457)	14328	105.820	105.81
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84876	49.5540	49.55

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.

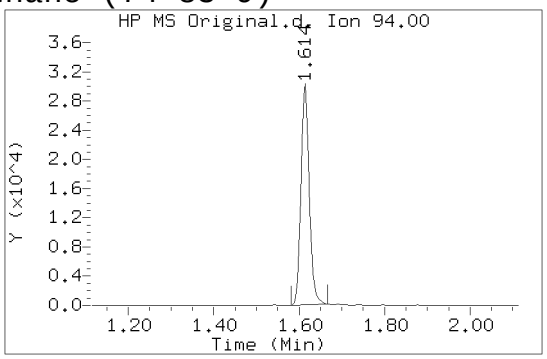

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Client ID: WSTD050
Sample Info: WSTD050
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
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Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-2-Chloroethylvinyl ether
-Epichlorohydrin
-cis-1,3-Dichloropropene
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
trans-1,3-Dichloropropene+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
m,p-Xylenes
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene

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LabSampID : VSTD050

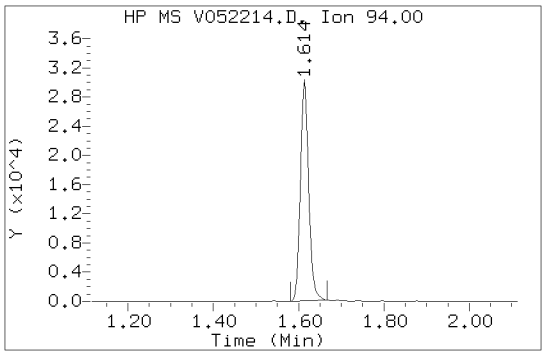
Bromomethane (74-83-9)

Reason Code:

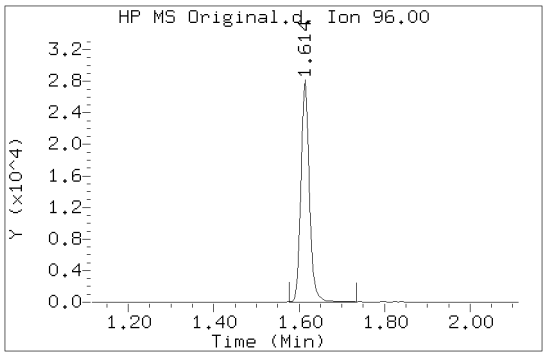
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23-May-2024
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tastan



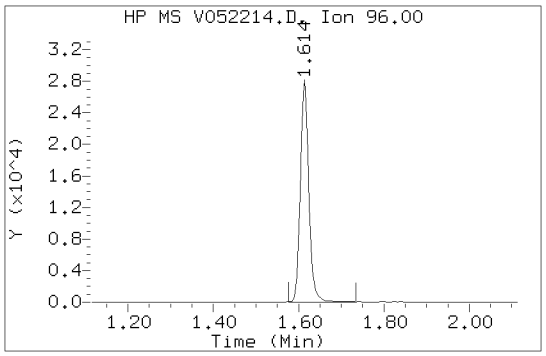
AFTER
MASS
94
AREA
42052
HEIGHT
30312
30-May-2024
15:52
firat



BEFORE
MASS
96
AREA
40003
HEIGHT
28168
23-May-2024
10:10
firat
tastan



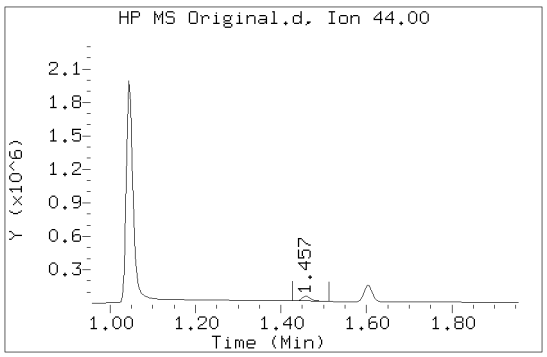
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96
AREA
40003
HEIGHT
28168
30-May-2024
15:52
firat



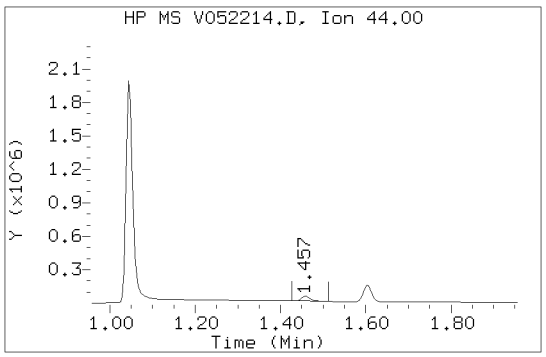
Acetaldehyde (75-07-0)

Reason Code:

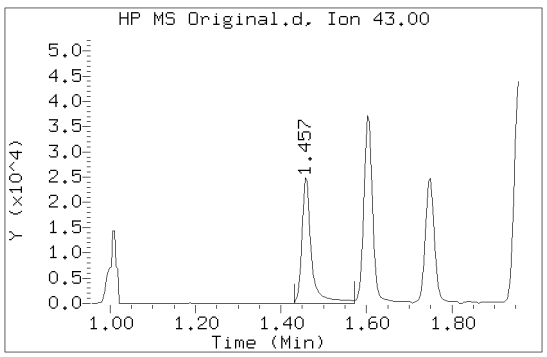
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AREA
62845
HEIGHT
42910
23-May-2024
10:10
firat
tastan



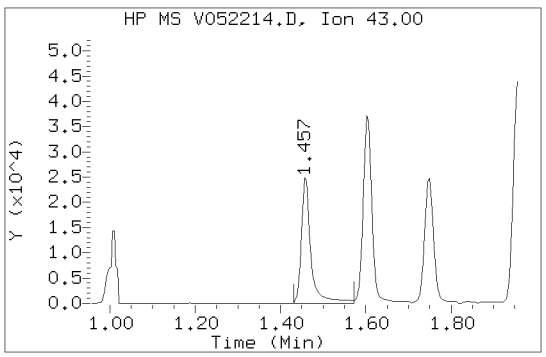
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44
AREA
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30-May-2024
15:52
firat



BEFORE
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HEIGHT
24840
23-May-2024
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firat
tastan



AFTER
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30-May-2024
15:52
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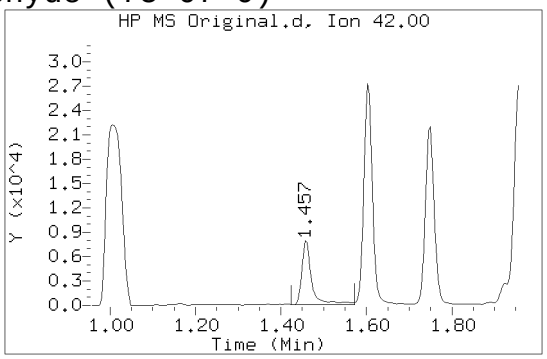


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LabSampID : VSTD050

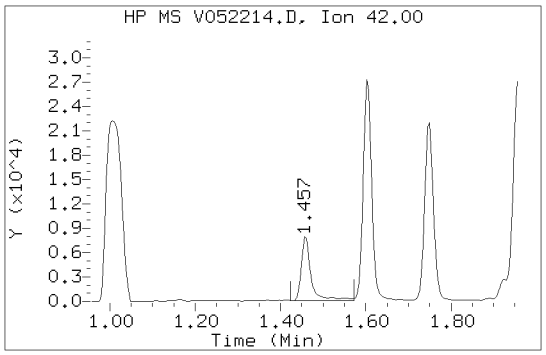
Acetaldehyde (75-07-0)

Reason Code:

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HEIGHT
7869
23-May-2024
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firat
tastan



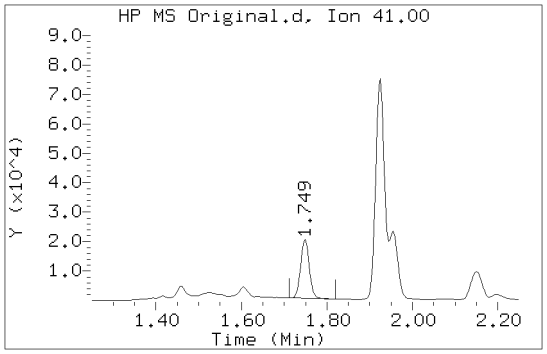
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30-May-2024
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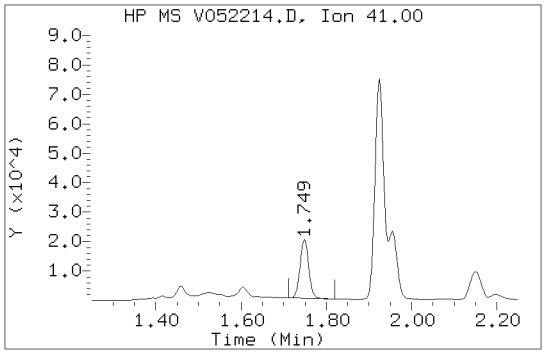
Isobutylene (115-11-7)

Reason Code:

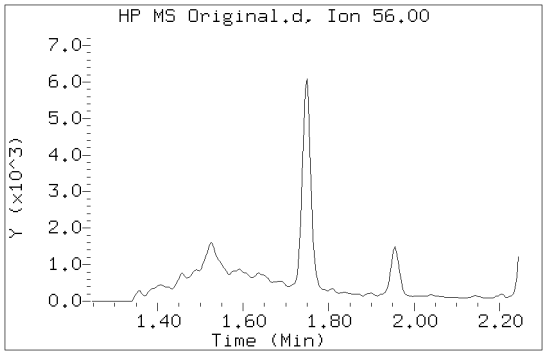
BEFORE
MASS
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AREA
28670
HEIGHT
19965
23-May-2024
10:10
firat
tastan



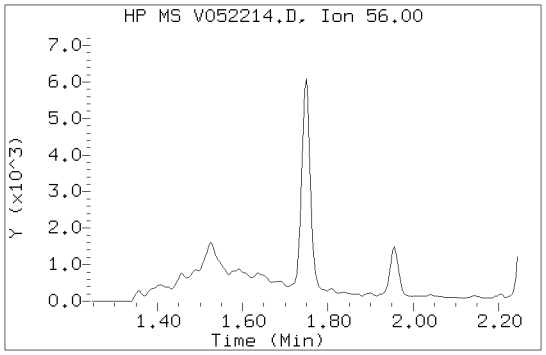
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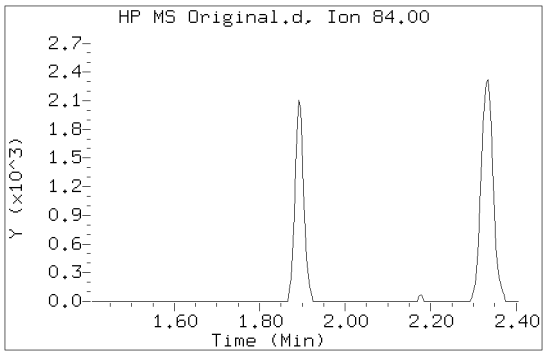
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23-May-2024
10:10
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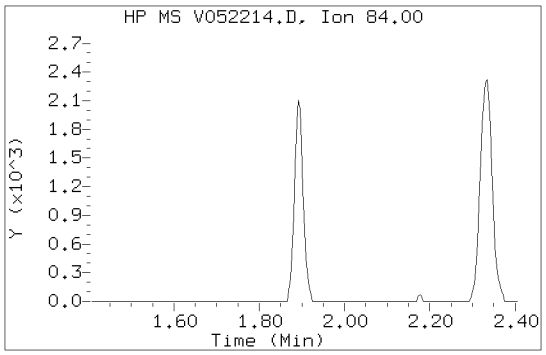
AFTER
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15:52
firat



BEFORE
MASS
84
AREA
0
HEIGHT
0
23-May-2024
10:10
firat
tastan



AFTER
MASS
84
AREA
0
HEIGHT
0
30-May-2024
15:52
firat



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051276

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

06/21/2024

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\U240524.b\U052401.D Page 1
Report Date: 24-May-2024 12:55

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-MAY-2024 12:08
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\U240524.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	81928			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14963			15.00- 40.00	18.26
9.194	9.180	(0.000)	75	38416			30.00- 60.00	46.89
9.194	9.180	(0.000)	96	5291			5.00- 9.00	6.46
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	72760			50.00- 0.00	88.81
9.194	9.180	(0.000)	175	6328			5.00- 9.00	8.70
9.194	9.180	(0.000)	176	71552			95.00- 101.00	98.34
9.194	9.180	(0.000)	177	4870			5.00- 9.00	6.81

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.81
175	5.00 - 9.00% of mass 174	7.72 (8.70)
176	95.00 - 101.00% of mass 174	87.34 (98.34)
177	5.00 - 9.00% of mass 176	5.94 (6.81)

Data File: U052401.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	754	62.00	3572	92.00	2194	134.80	165
37.00	3736	63.00	2786	93.00	3760	136.90	105
38.00	3518	64.00	314	94.10	9557	139.70	79
39.00	1483	65.00	396	95.00	81928	140.90	824
40.00	218	66.00	91	96.00	5291	141.90	120
41.90	53	68.00	7953	97.00	168	143.00	881
43.00	159	69.00	8258	103.90	320	144.80	142
44.00	621	70.00	682	105.00	135	145.80	126
45.00	661	72.00	515	105.80	285	147.90	193
45.70	77	73.00	3437	106.70	104	149.90	79
47.00	1298	74.00	12731	109.90	72	152.70	58
48.10	518	75.00	38416	110.90	64	154.00	91
49.00	3069	76.00	3337	111.80	55	154.90	185
50.00	14963	76.90	550	112.90	91	156.90	169
51.00	4802	78.00	305	114.90	97	158.90	131
52.00	184	78.90	2035	115.90	356	160.80	82
52.80	53	79.90	685	116.90	484	171.90	637
54.10	63	80.90	2082	117.80	291	173.90	72760
55.00	174	81.90	445	118.80	395	175.00	6328
56.00	1210	82.90	70	123.80	82	175.90	71552
57.00	1830	86.00	205	127.90	349	176.90	4870
57.90	128	86.90	3504	129.00	125	177.80	136
60.00	840	87.90	3255	129.90	300		
61.00	3593	90.90	369	131.00	122		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240524.b\u052401.d Page 1

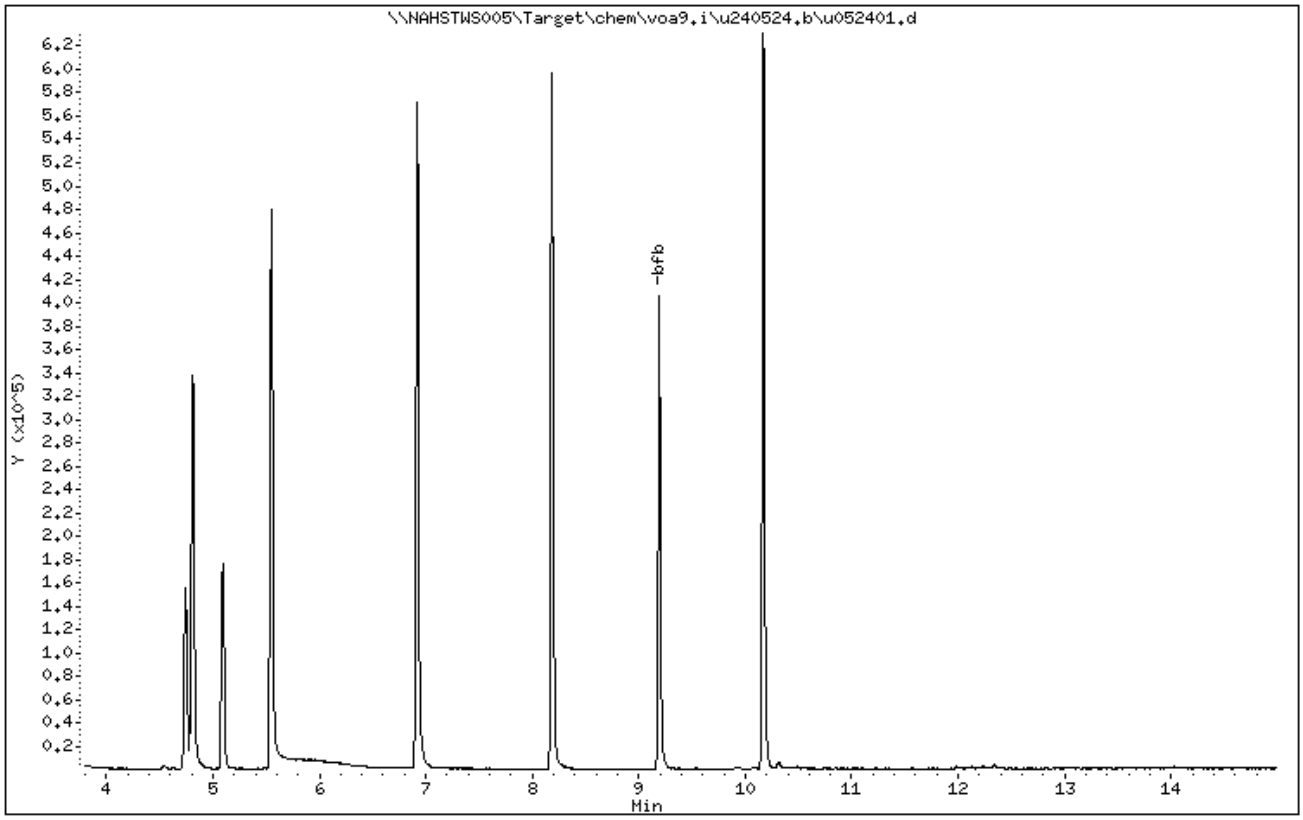
Date : 24-MAY-2024 12:08

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\u240524.b\u052401.d
Inj Date : 24-MAY-2024 12:08
InstruID : VOA9.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D Page 1
Report Date: 24-May-2024 15:17

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-MAY-2024 12:52
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 24-May-2024 13:09 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 2 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)	250537	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	62890	50.0000	47.05
3 Chloromethane	50	1.299	1.299	(0.270)	207307	50.0000	44.83
4 Propionitrile	54	4.339	4.339	(0.901)	132170	500.000	526.87
5 Vinyl Chloride	62	1.381	1.381	(0.287)	98276	50.0000	43.31
6 Bromomethane	94	1.610	1.610	(0.334)	36114	50.0000	52.43
7 Chloroethane	64	1.696	1.696	(0.352)	66509	50.0000	41.57
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	118346	50.0000	45.70
9 Acrolein	56	2.266	2.266	(0.471)	8434	100.000	89.90
10 Acetone	43	2.412	2.412	(0.501)	72518	100.000	102.95
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	68047	50.0000	43.15
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	267377	1000.00	1017.24
13 Acetonitrile	39	2.675	2.675	(0.556)	83639	500.000	404.21(M)
14 Allyl Chloride	41	2.675	2.675	(0.556)	207080	50.0000	45.41
15 Iodomethane	142	2.469	2.469	(0.513)	29106	100.000	94.19
16 Acrylonitrile	53	3.068	3.068	(0.637)	62467	100.000	96.25
17 Methylene Chloride	84	2.795	2.795	(0.580)	88397	50.0000	47.83
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	195401	50.0000	45.54
19 Carbon Disulfide	76	2.521	2.521	(0.524)	418007	100.000	87.59
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	76587	50.0000	42.38

21 Vinyl Acetate	43	4.343	4.343 (0.902)	108108	100.000	103.07
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	144761	50.0000	46.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	120639	50.0000	43.67
24	2-Butanone	43	4.268	4.268	(0.886)	106229	100.000	101.43
25	Methacrylonitrile	41	4.497	4.497	(0.934)	55210	50.0000	46.77(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	102954	50.0000	46.58
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	92430	50.0000	42.62
28	Chloroform	83	4.575	4.575	(0.950)	151655	50.0000	47.36
29	Bromochloromethane	128	4.470	4.470	(0.928)	46357	50.0000	49.01
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	91811	50.0000	56.13
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	117598	50.0000	46.57
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	112182	50.0000	44.06
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	120564	50.0000	47.80
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	94786	50.0000	45.81
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110632	50.0000	55.81
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	360480	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	351681	50.0000	47.41
38	Trichloroethene	130	5.786	5.786	(1.042)	87604	50.0000	43.84
39	Bromodichloromethane	83	6.277	6.277	(1.130)	102020	50.0000	46.48
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	32026	50.0000	49.51
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	70813	100.000	93.13
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	95435	50.0000	47.54
43	2-Nitropropane	43	6.510	6.510	(1.352)	19699	50.0000	53.28
44	Dibromomethane	93	6.120	6.120	(1.102)	55525	50.0000	44.66
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	218589	100.000	97.06
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	128621	50.0000	50.80
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	326475	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	359087	50.0000	59.32
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	116981	50.0000	43.98
50	Toluene	91	6.978	6.978	(0.853)	366759	50.0000	44.45
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	105438	50.0000	47.73
52	2-Hexanone	43	7.589	7.589	(0.927)	141435	100.000	93.78
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	70762	50.0000	48.95
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	151187	50.0000	48.60
55	Dibromochloromethane	129	7.691	7.691	(0.940)	80391	50.0000	50.24
56	Tetrachloroethene	164	7.454	7.454	(0.911)	70788	50.0000	45.51
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	82974	50.0000	47.51
58	1-Chlorohexane	55	8.193	8.193	(1.475)	75505	50.0000	47.18
59	Chlorobenzene	112	8.208	8.208	(1.003)	232148	50.0000	47.96
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	78784	50.0000	46.25
61	Ethylbenzene	106	8.305	8.305	(1.015)	118024	50.0000	44.62
62	m,p-Xylenes	106	8.407	8.407	(1.027)	300052	100.000	92.39
63	o-Xylene	106	8.744	8.744	(1.068)	146833	50.0000	46.19
64	Styrene	104	8.759	8.759	(1.070)	256373	50.0000	47.54
66	Bromoform	173	8.916	8.916	(1.089)	49391	50.0000	45.39
67	Isopropylbenzene	105	9.063	9.063	(1.107)	367787	50.0000	46.65
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	121638	50.0000	50.59
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132537	50.0000	59.11
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	177240	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	121590	50.0000	49.56
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	25827	50.0000	48.77
73	n-Propylbenzene	91	9.411	9.411	(0.926)	433395	50.0000	47.34
74	Bromobenzene	156	9.317	9.317	(0.916)	100593	50.0000	43.15
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	304747	50.0000	48.23

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	259471	50.0000	43.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303203	50.0000	44.88

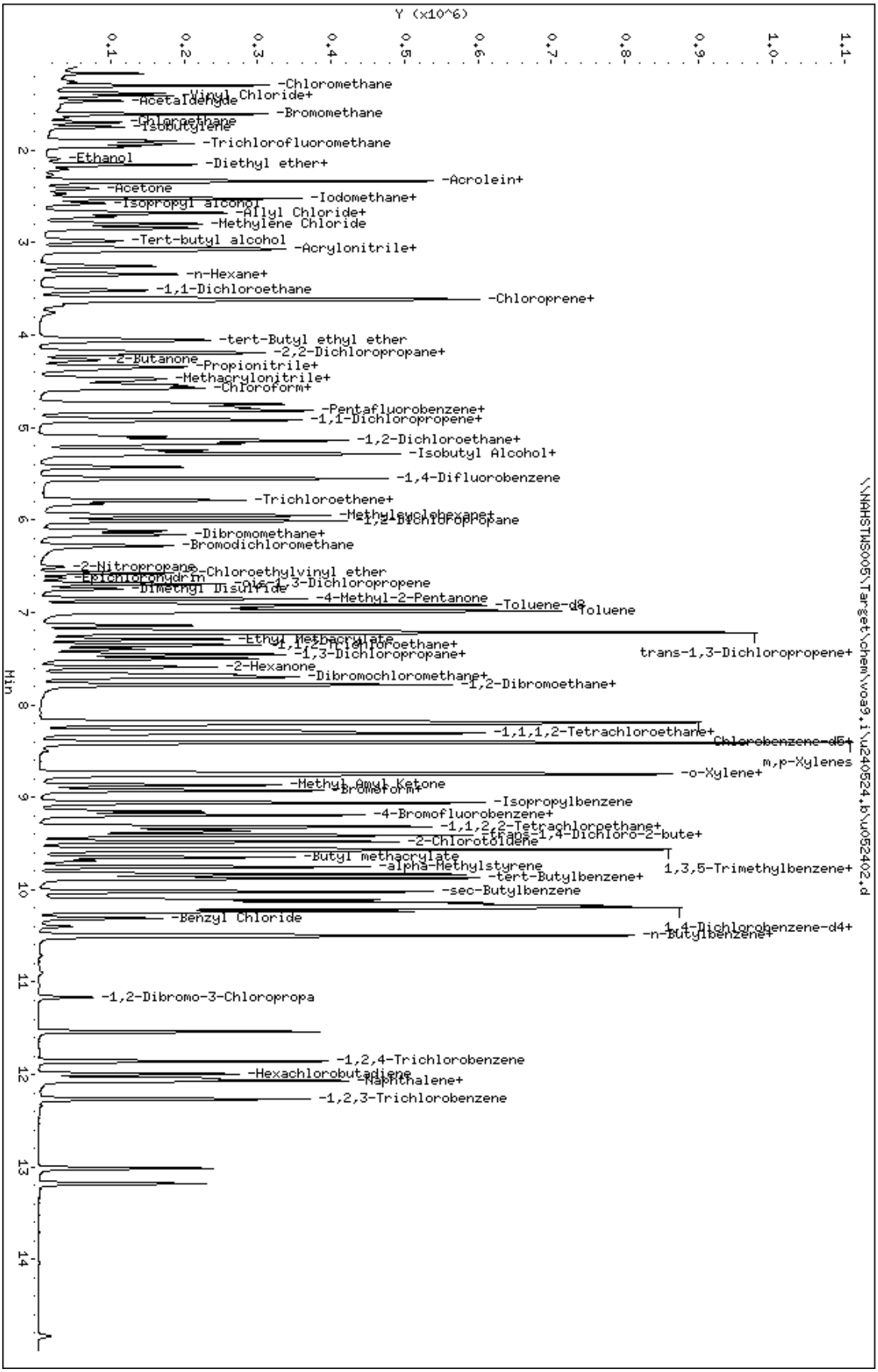
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	259976	50.0000	46.91
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	303704	50.0000	46.86
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	350132	50.0000	47.54
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	312678	50.0000	48.76
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	181642	50.0000	48.50
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	190417	50.0000	48.83
86	Benzyl Chloride	91	10.311	10.311	(1.260)	106155	50.0000	50.91
87	n-Butylbenzene	91	10.491	10.491	(1.032)	276410	50.0000	46.77
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	178607	50.0000	48.48
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	14427	50.0000	47.96
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	117772	50.0000	44.26
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	50367	50.0000	46.99
92	Naphthalene	128	12.065	12.065	(1.187)	291384	50.0000	51.62
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	111254	50.0000	44.90
146	Methyl acetate	43	2.716	2.716	(0.564)	105014	50.0000	53.70
138	Freon TF	101	2.337	2.337	(0.485)	129586	50.0000	48.03
141	Cyclohexane	56	4.782	4.782	(0.993)	132377	50.0000	47.96
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	32532	100.000	101.37
147	Methylcyclohexane	55	5.947	5.947	(1.071)	204207	50.0000	47.18
135	1,4-Dioxane	88	6.169	6.169	(1.281)	16459	1000.00	898.68
132	n-Butanol	56	5.824	5.824	(1.209)	44088	1000.00	934.28
136	n-Hexane	57	3.342	3.342	(0.694)	90927	50.0000	50.59
139	Diethyl ether	59	2.150	2.150	(0.447)	54072	50.0000	45.44
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	123350	1000.00	1105.73
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	96136	1000.00	1059.92
152	Amyl alcohol	42	7.398	7.398	(0.904)	50911	1000.00	1023.07
156	Diisopropyl ether	45	3.623	3.623	(0.752)	255747	50.0000	44.43
162	Butyl acrylate	55	8.733	8.733	(1.067)	150294	50.0000	43.52
187	n-Amyl acetate	43	8.928	8.928	(1.091)	159184	50.0000	48.83
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	345378	50.0000	44.61
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	266229	50.0000	44.30
167	Ethanol	45	2.094	2.094	(0.435)	18283	1000.00	1044.56
172	tert-Butyl formate	59	5.246	5.246	(1.090)	132983	100.000	119.21
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	191398	1000.00	1097.46
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	238188	50.0000	42.98
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	226989	50.0000	40.75
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	132983	1000.00	1176.73
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	540542	1000.00	1002.75
140	1,3-Butadiene	54	1.408	1.408	(0.292)	46437	50.0000	46.91
182	Epichlorohydrin	57	6.630	6.630	(1.194)	24361	200.000	209.75
M 94	1,2-Dichloroethylene (total)	96				169017	100.000	85.02
M 95	Xylenes (total)	106				446885	150.000	138.95
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	123401	50.0000	47.52
130	Ethyl Acetate	43	4.343	4.343	(0.902)	108108	50.0000	51.58
131	Methyl Acrylate	55	4.373	4.373	(0.908)	102694	50.0000	47.83
189	n-Butyl acetate	43	7.706	7.706	(0.941)	156964	50.0000	46.63
134	Cyclohexanone	55	9.153	9.153	(0.900)	86411	1000.00	910.29
185	Isoprene	39	2.157	2.157	(0.448)	20047	50.0000	47.07
188	Isopropyl acetate	43	5.284	5.284	(0.951)	268876	50.0000	51.49
150	Allyl alcohol	57	3.342	3.342	(0.694)	90927	1000.00	1011.99
194	Acetaldehyde	44	1.464	1.464	(0.304)	68954	200.000	204.18(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	182055	50.0000	44.47

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	42597	50.0000	38.82
202 Isobutylene	41	1.749	1.749 (0.363)	28486	50.0000	46.47(M)

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	(1.235)	204207	50.0000	46.22
163 Butyl methacrylate	41	9.647	9.647	(0.949)	88746	50.0000	44.86
159 Propylene oxide	43	2.202	2.202	(0.457)	12013	100.000	90.82
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	81082	50.0000	47.10

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;2;;CCV
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
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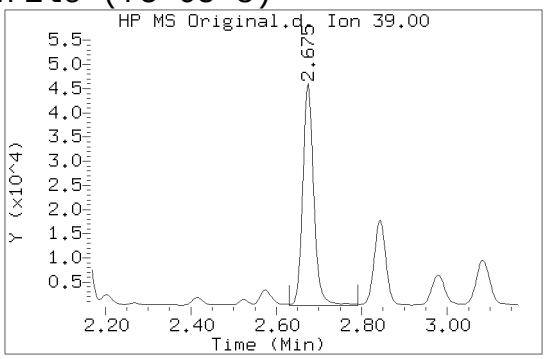
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LabSampID : VSTD050

Acetonitrile (75-05-8)

Reason Code:

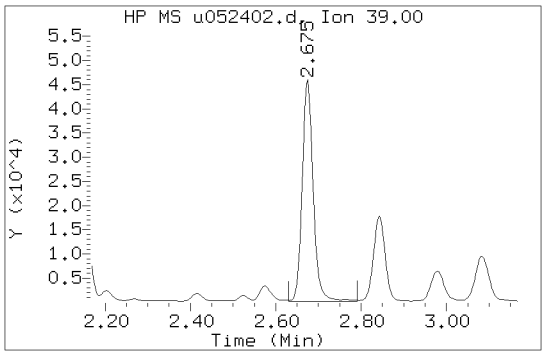
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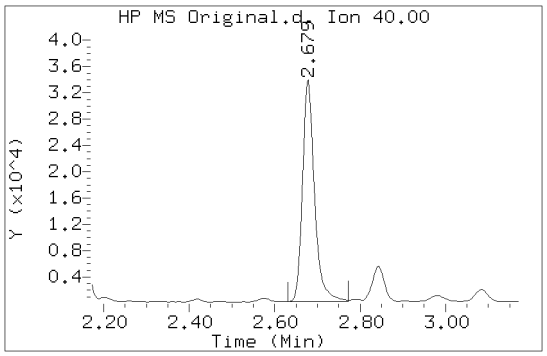
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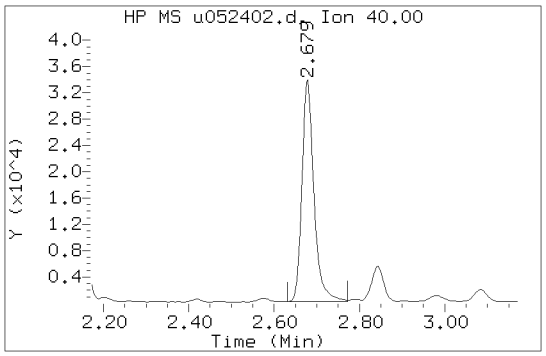
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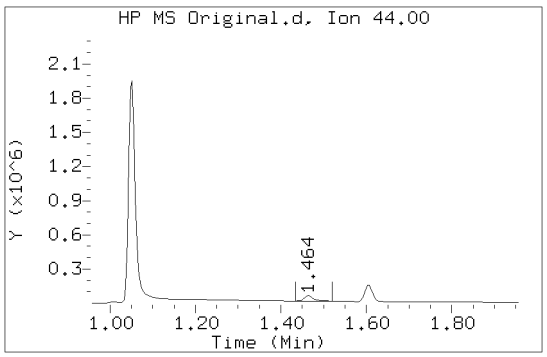


Acetaldehyde (75-07-0)

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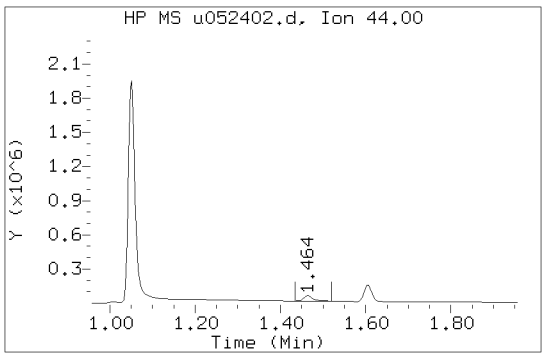
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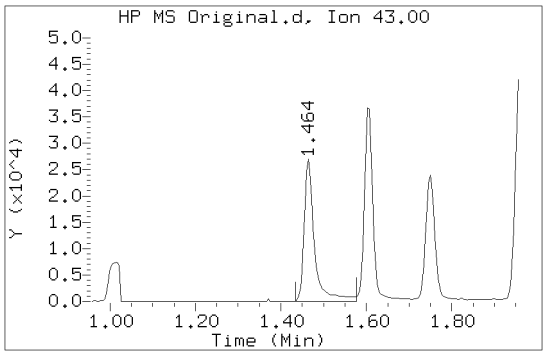
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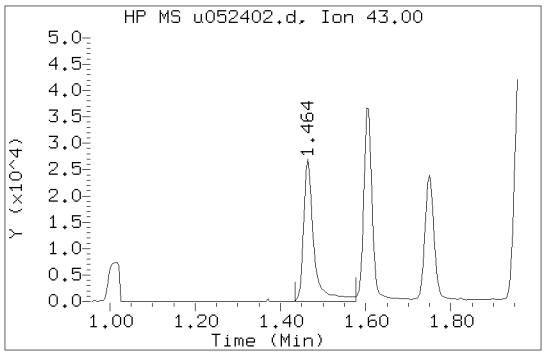
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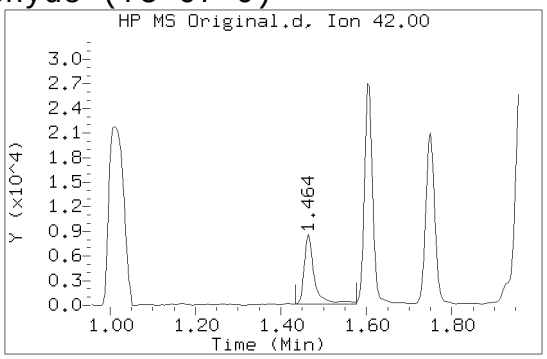
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LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

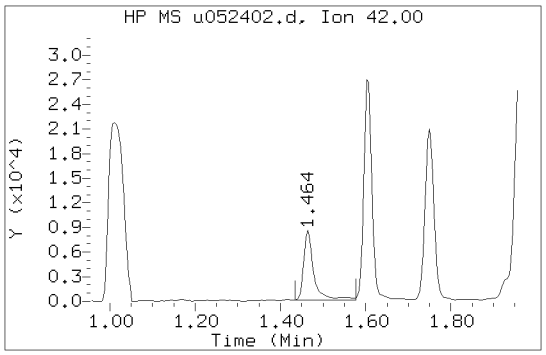
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AFTER

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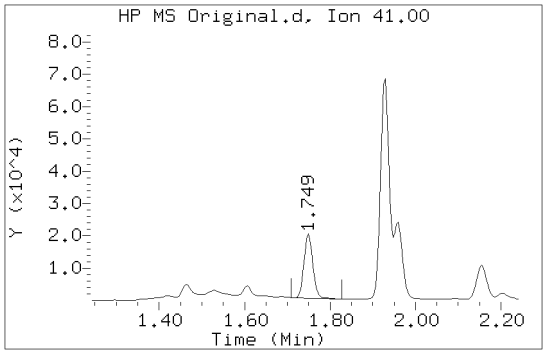


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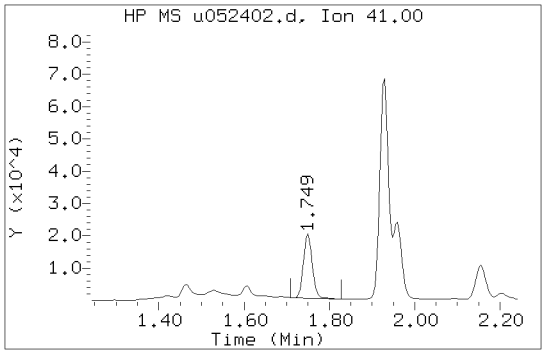
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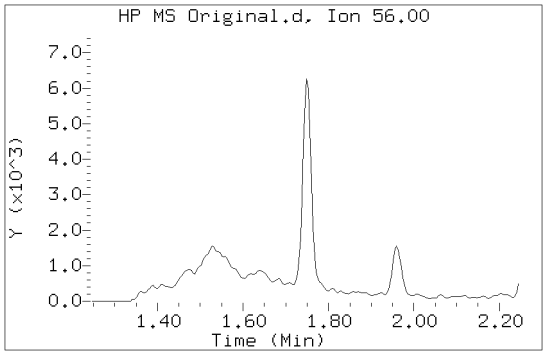
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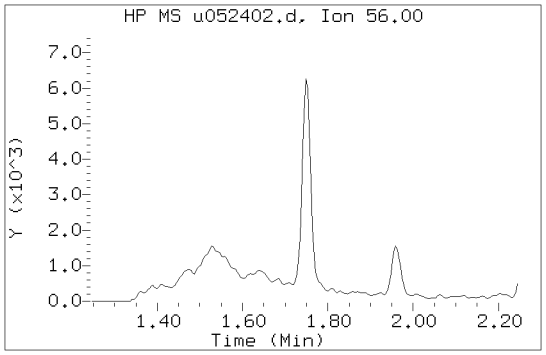
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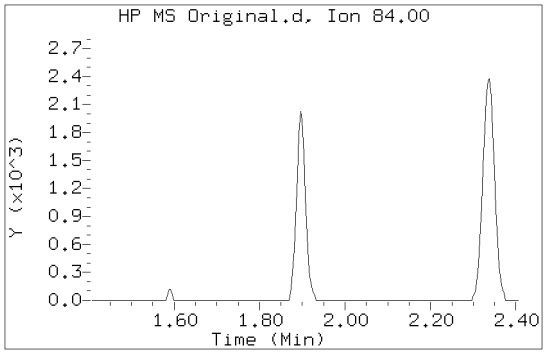
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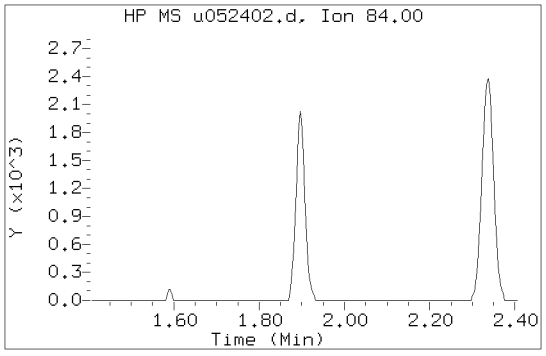
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AFTER

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HEIGHT
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24-May-2024
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tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 1
Report Date: 28-May-2024 10:09

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D
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Operator : FT Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
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Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 3 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	4.811	4.811	(1.000)	248200	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	24760	18.6986	18.69
3 Chloromethane	50	1.291	1.291	(0.268)	90423	18.4688	18.46
4 Propionitrile	54	4.335	4.335	(0.901)	56126	225.282	225.28(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	39630	17.6308	17.63
6 Bromomethane	94	1.602	1.602	(0.333)	15875	21.9371	21.93
7 Chloroethane	64	1.689	1.689	(0.351)	27644	17.4447	17.44
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	46367	18.0736	18.07
9 Acrolein	56	2.262	2.262	(0.470)	3752	38.0614	38.06
10 Acetone	43	2.408	2.408	(0.501)	34212	45.1419	45.14
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	26654	17.0639	17.06
12 Isobutyl Alcohol	43	5.284	5.280	(1.098)	106668	417.000	417.00(a)
13 Acetonitrile	39	2.667	2.667	(0.554)	34841	169.965	169.96(a)
14 Allyl Chloride	41	2.671	2.667	(0.555)	85604	18.9379	18.93(a)
15 Iodomethane	142	2.461	2.461	(0.512)	13514	47.0040	47.00
16 Acrylonitrile	53	3.064	3.061	(0.637)	26012	40.0498	40.04
17 Methylene Chloride	84	2.791	2.791	(0.580)	37881	19.6881	19.68
18 Methyl tert-butyl ether	73	3.079	3.079	(0.640)	82164	19.2642	19.26
19 Carbon Disulfide	76	2.513	2.517	(0.522)	163938	34.6781	34.67
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	30994	17.3129	17.31

21 Vinyl Acetate	43	4.339	4.339 (0.902)	43073	41.5673	41.56
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	59277	19.2511	19.25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	48387	17.6833	17.68
	24 2-Butanone	43	4.264	4.260	(0.886)	42129	40.6701	40.67
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	20872	18.1966	18.19(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	39213	17.9085	17.90
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	37226	17.3291	17.32
	28 Chloroform	83	4.571	4.568	(0.950)	61337	19.2488	19.24
	29 Bromochloromethane	128	4.466	4.466	(0.928)	18475	19.5138	19.51
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	89467	55.2243	55.22
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	45667	18.2557	18.25
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	45660	17.9749	17.97
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	49112	19.3349	19.33
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	35980	17.4278	17.42
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	108475	55.2374	55.23
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	359699	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	142238	19.1791	19.17
	38 Trichloroethene	130	5.786	5.786	(1.043)	36004	18.0580	18.05
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	38440	17.5518	17.55
	40 Methyl Methacrylate	41	5.827	5.824	(1.211)	13466	21.4505	21.45(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25582	36.2496	36.24
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39120	19.4497	19.44
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7092	20.2018	20.20
	44 Dibromomethane	93	6.116	6.116	(1.102)	22685	18.2894	18.28
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	83660	38.0811	38.08
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46408	18.3718	18.37
*	47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	318485	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	327208	55.4231	55.42(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	46921	17.6822	17.68(a)
	50 Toluene	91	6.978	6.978	(0.853)	148576	18.4591	18.45
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	37082	18.0673	18.06
	52 2-Hexanone	43	7.589	7.589	(0.927)	55693	37.8572	37.85
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	29415	20.5898	20.58
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61432	20.1419	20.14
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	29084	18.6328	18.63
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	28803	18.9822	18.98
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	33819	19.8541	19.85
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	30237	18.3793	18.37
	59 Chlorobenzene	112	8.208	8.208	(1.003)	95658	20.0170	20.01
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	30304	18.2379	18.23
	61 Ethylbenzene	106	8.305	8.305	(1.015)	46828	18.1506	18.15
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	119531	37.7298	37.72
	63 o-Xylene	106	8.747	8.744	(1.069)	58710	18.9326	18.93
	64 Styrene	104	8.759	8.759	(1.070)	100320	19.0717	19.07
	66 Bromoform	173	8.916	8.916	(1.089)	16935	17.3657	17.36
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	146174	19.0083	19.00
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47464	20.9335	20.93
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124616	56.9642	56.96(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167134	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46409	20.4775	20.47
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9839	19.5763	19.57(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	172811	20.0195	20.01
	74 Bromobenzene	156	9.317	9.317	(0.916)	40842	18.5801	18.58
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	118469	19.8863	19.88

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	106084	18.9660	18.96
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	122549	19.2382	19.23

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 3
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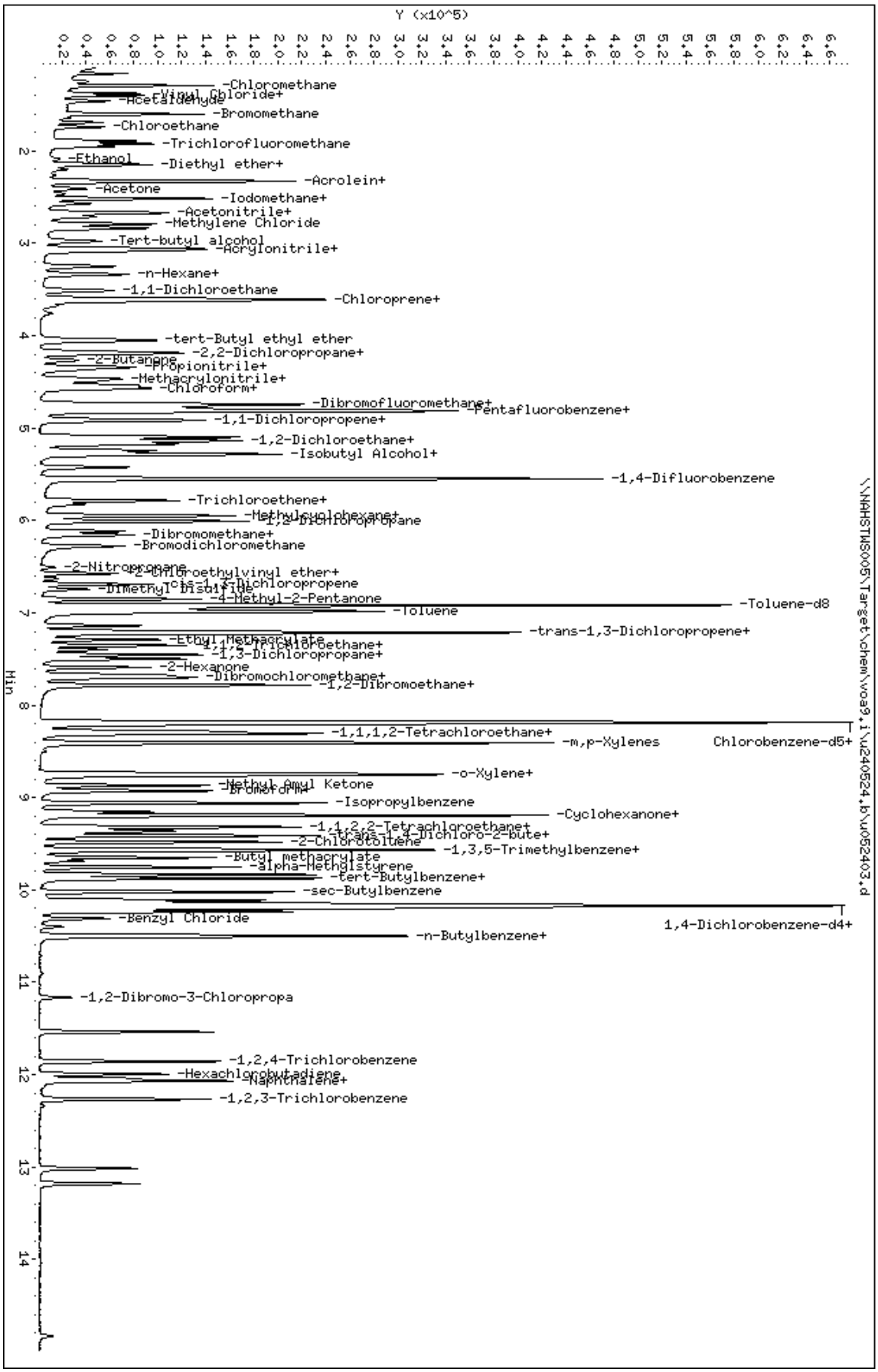
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	102992	19.7082	19.70
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	119199	19.5050	19.50
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	136053	19.5922	19.59
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	119220	19.7182	19.71
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	72689	20.5512	20.55
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	76171	20.5332	20.53
86	Benzyl Chloride	91	10.311	10.311	(1.260)	38018	19.2397	19.23
87	n-Butylbenzene	91	10.491	10.491	(1.032)	104657	19.1587	19.15
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72599	20.7830	20.78
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5124	19.2718	19.27
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	46504	18.5351	18.53
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	19888	19.9236	19.92
92	Naphthalene	128	12.065	12.065	(1.187)	111700	20.9877	20.98
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	44053	18.8562	18.85
146	Methyl acetate	43	2.712	2.712	(0.564)	42460	21.4370	21.43
138	Freon TF	101	2.330	2.330	(0.484)	50616	18.9390	18.93
141	Cyclohexane	56	4.778	4.781	(0.993)	53335	18.8125	18.81
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14557	45.0762	45.07
147	Methylcyclohexane	55	5.943	5.943	(1.071)	80839	18.7204	18.72
135	1,4-Dioxane	88	6.168	6.165	(1.282)	7195	394.929	394.92
132	n-Butanol	56	5.823	5.824	(1.210)	18230	389.958	389.95(a)
136	n-Hexane	57	3.334	3.338	(0.693)	35183	19.9449	19.94
139	Diethyl ether	59	2.142	2.142	(0.445)	22614	19.1003	19.10
148	Tert-butyl alcohol	59	2.974	2.971	(0.618)	52896	481.293	481.29
149	Isopropyl alcohol	45	2.570	2.566	(0.534)	40199	450.415	450.41
152	Amyl alcohol	42	7.398	7.398	(0.904)	19748	426.592	426.59
156	Diisopropyl ether	45	3.619	3.619	(0.752)	109678	19.1380	19.13
162	Butyl acrylate	55	8.732	8.729	(1.067)	59256	17.5916	17.59
187	n-Amyl acetate	43	8.931	8.927	(1.091)	67181	21.5329	21.53
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	142649	19.5842	19.58
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	111812	19.7313	19.73
167	Ethanol	45	2.090	2.086	(0.434)	7542	430.604	430.60
172	tert-Butyl formate	59	5.242	5.239	(1.090)	53919	50.9505	50.95
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79804	477.402	477.40
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	101376	18.4682	18.46
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	94615	17.1481	17.14
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	53919	500.212	500.21
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	214415	398.624	398.62
140	1,3-Butadiene	54	1.400	1.400	(0.291)	17961	18.3154	18.31
182	Epichlorohydrin	57	6.629	6.629	(1.195)	9742	86.1146	86.11
M 94	1,2-Dichloroethylene (total)	96				68220	34.6435	34.64
M 95	Xylenes (total)	106				178241	55.5417	55.54
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46868	19.1414	19.14
130	Ethyl Acetate	43	4.339	4.339	(0.902)	43073	20.8249	20.82
131	Methyl Acrylate	55	4.369	4.365	(0.908)	43003	20.4278	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.941)	59303	18.0598	18.05
134	Cyclohexanone	55	9.152	9.152	(0.900)	38387	428.603	428.60(a)
185	Isoprene	39	2.150	2.154	(0.447)	7878	18.6725	18.67
188	Isopropyl acetate	43	5.284	5.280	(0.952)	106710	20.8765	20.87
150	Allyl alcohol	57	3.334	3.338	(0.693)	35183	398.899	398.89
194	Acetaldehyde	44	1.456	1.456	(0.303)	69714	208.377	208.37
195	Methyl Amyl Ketone	43	8.867	8.864	(1.083)	78407	19.6342	19.63

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14542	15.5745	15.57
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	80839	18.4728	18.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43771	23.2909	23.29
159 Propylene oxide	43	2.198	2.199	(0.457)	4776	36.0275	36.02
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	28698	19.1991	19.19

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

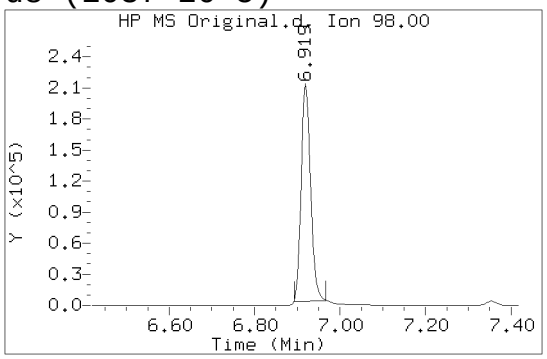
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Toluene-d8 (2037-26-5)

Reason Code: MPT

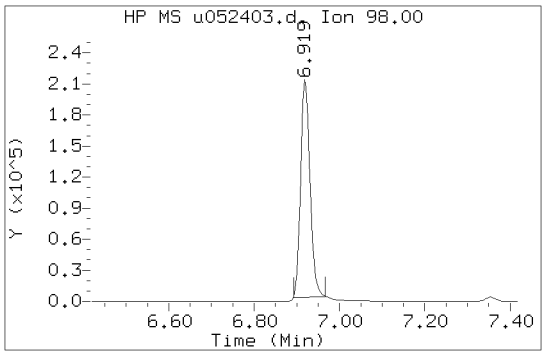
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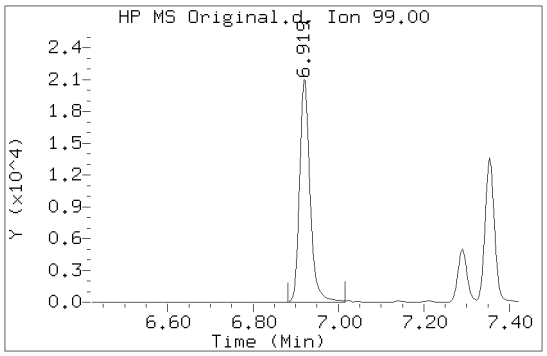
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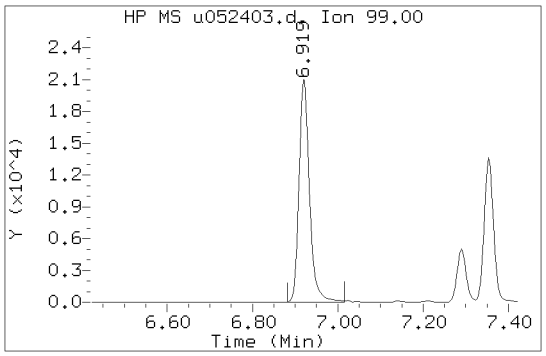
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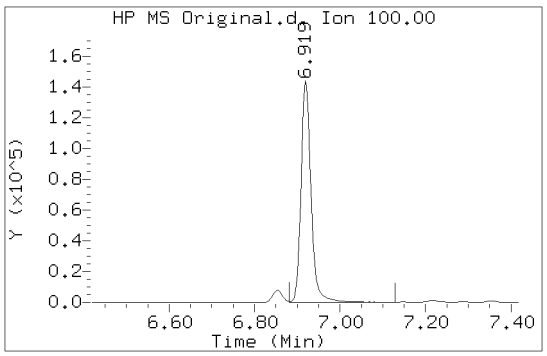
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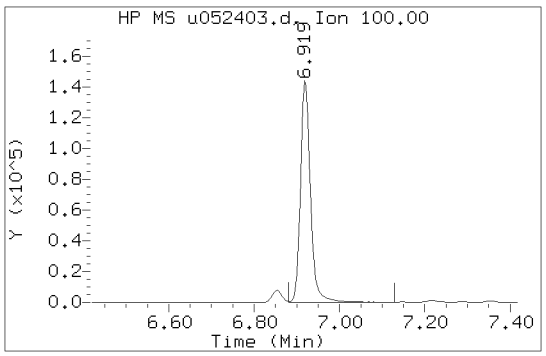
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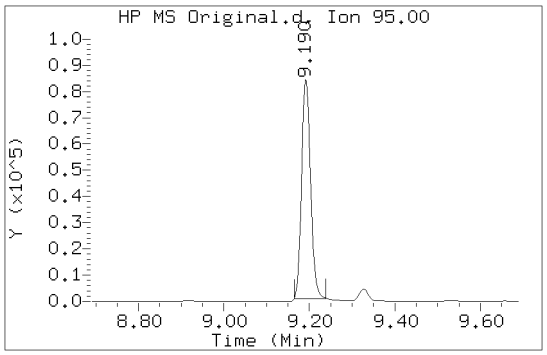


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

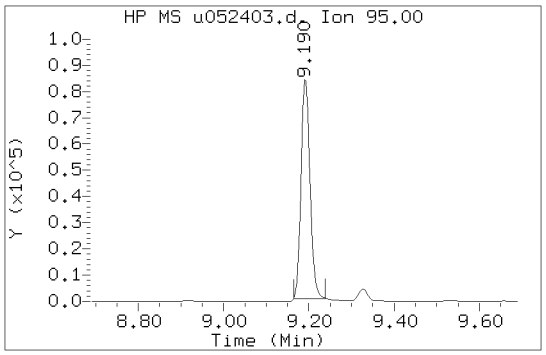
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AFTER

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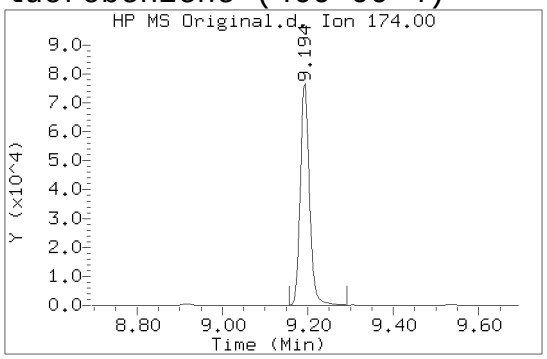
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InstruID : VOA9.i
LabSampID : VLCSW-240524

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

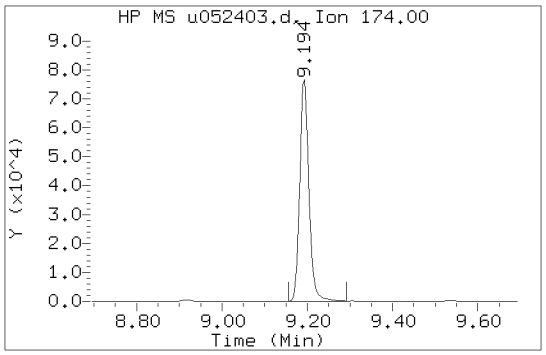
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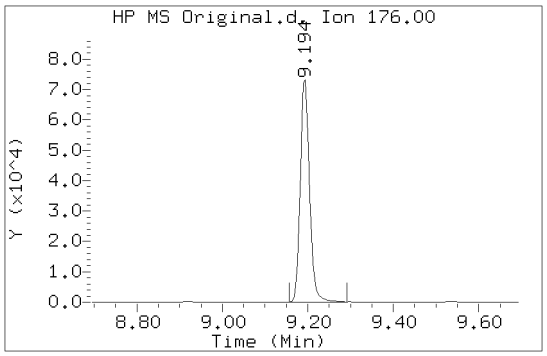
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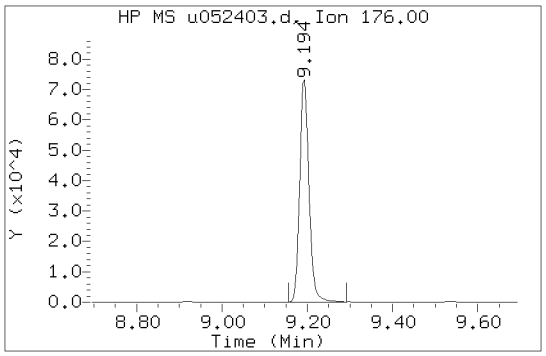
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Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 1
Report Date: 28-May-2024 10:11

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D
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Misc Info : V9;WATER;0;1;
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Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 3 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	4.811	4.811	(1.000)	247860	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.160	(0.240)	23538	17.8002	17.80
3 Chloromethane	50	1.287	1.291	(0.268)	87729	17.8982	17.89
4 Propionitrile	54	4.331	4.335	(0.900)	54569	219.070	219.07(a)
5 Vinyl Chloride	62	1.370	1.374	(0.285)	39063	17.4024	17.40
6 Bromomethane	94	1.598	1.602	(0.332)	15536	21.4511	21.45
7 Chloroethane	64	1.685	1.689	(0.350)	26811	16.9423	16.94
8 Trichlorofluoromethane	101	1.883	1.891	(0.392)	45341	17.6979	17.69
9 Acrolein	56	2.258	2.262	(0.469)	3785	38.4873	38.48
10 Acetone	43	2.404	2.408	(0.500)	34248	45.2693	45.26
11 1,1-Dichloroethene	96	2.322	2.326	(0.483)	26159	16.7700	16.76
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	104266	408.184	408.18(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	33938	165.787	165.78(a)
14 Allyl Chloride	41	2.663	2.667	(0.554)	84210	18.6525	18.65(a)
15 Iodomethane	142	2.457	2.461	(0.511)	13771	47.8970	47.89
16 Acrylonitrile	53	3.060	3.061	(0.636)	26245	40.4742	40.47
17 Methylene Chloride	84	2.787	2.791	(0.579)	37031	19.2346	19.23
18 Methyl tert-butyl ether	73	3.072	3.079	(0.638)	82802	19.4431	19.44
19 Carbon Disulfide	76	2.509	2.517	(0.522)	156664	33.1849	33.18
20 trans-1,2-Dichloroethene	96	3.049	3.053	(0.634)	29730	16.6296	16.62

21 Vinyl Acetate	43	4.335	4.339 (0.901)	44120	42.6381	42.63
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	57748	18.7720	18.77

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.600	3.604	(0.748)	46121	16.8783	16.87
	24 2-Butanone	43	4.260	4.260	(0.885)	42261	40.8523	40.85
	25 Methacrylonitrile	41	4.492	4.493	(0.934)	21644	18.8803	18.88(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	37931	17.3468	17.34
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	36430	16.9818	16.98
	28 Chloroform	83	4.567	4.568	(0.949)	60052	18.8679	18.86
	29 Bromochloromethane	128	4.462	4.466	(0.928)	18018	19.0497	19.04
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	91612	56.6166	56.61
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	44191	17.6899	17.68
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	43938	16.9779	16.97
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	49815	19.2489	19.24
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	35015	16.6475	16.64
$	35 1,2-Dichloroethane-d4	65	5.092	5.093	(1.058)	110743	56.4789	56.47
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	366459	50.0000	
	37 Benzene	78	5.133	5.134	(0.925)	139438	18.4529	18.45
	38 Trichloroethene	130	5.782	5.786	(1.042)	34833	17.1484	17.14
	39 Bromodichloromethane	83	6.273	6.277	(1.130)	37705	16.8986	16.89
	40 Methyl Methacrylate	41	5.823	5.824	(1.210)	12313	19.6709	19.67(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25957	36.1157	36.11
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	37967	18.5215	18.52
	43 2-Nitropropane	43	6.505	6.506	(1.352)	6910	19.7125	19.71
	44 Dibromomethane	93	6.116	6.116	(1.102)	22289	17.6387	17.63
	45 4-Methyl-2-Pentanone	43	6.850	6.851	(0.837)	83519	36.8785	36.87
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46036	17.8884	17.88
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	328317	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	340179	55.8942	55.89(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47155	17.4425	17.44(a)
	50 Toluene	91	6.978	6.978	(0.853)	145512	17.5370	17.53
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	36384	17.4607	17.46
	52 2-Hexanone	43	7.589	7.589	(0.928)	55076	36.3167	36.31
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	27746	18.8055	18.80
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61485	19.5507	19.55
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	28195	17.5223	17.52
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	27899	17.8358	17.83
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	32544	18.5334	18.53
	58 1-Chlorohexane	55	8.192	8.193	(1.476)	29063	17.2699	17.26
	59 Chlorobenzene	112	8.207	8.208	(1.003)	93675	18.9929	18.99
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	29192	17.0426	17.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	45882	17.2513	17.25
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	117941	36.1131	36.11
	63 o-Xylene	106	8.743	8.744	(1.069)	57400	17.9558	17.95
	64 Styrene	104	8.758	8.759	(1.071)	98756	18.2121	18.21
	66 Bromoform	173	8.916	8.916	(1.090)	16633	16.6314	16.63
	67 Isopropylbenzene	105	9.058	9.059	(1.107)	142070	17.9214	17.92
	68 1,1,2,2-Tetrachloroethane	83	9.324	9.325	(0.917)	47952	19.9951	19.99
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.124)	128339	56.9089	56.90(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176750	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46292	19.3399	19.33
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9610	18.5751	18.57(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	166665	18.2571	18.25
	74 Bromobenzene	156	9.317	9.317	(0.916)	40773	17.5396	17.53
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	114692	18.2049	18.20

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	102550	17.3367	17.33
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	119214	17.6965	17.69

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 3
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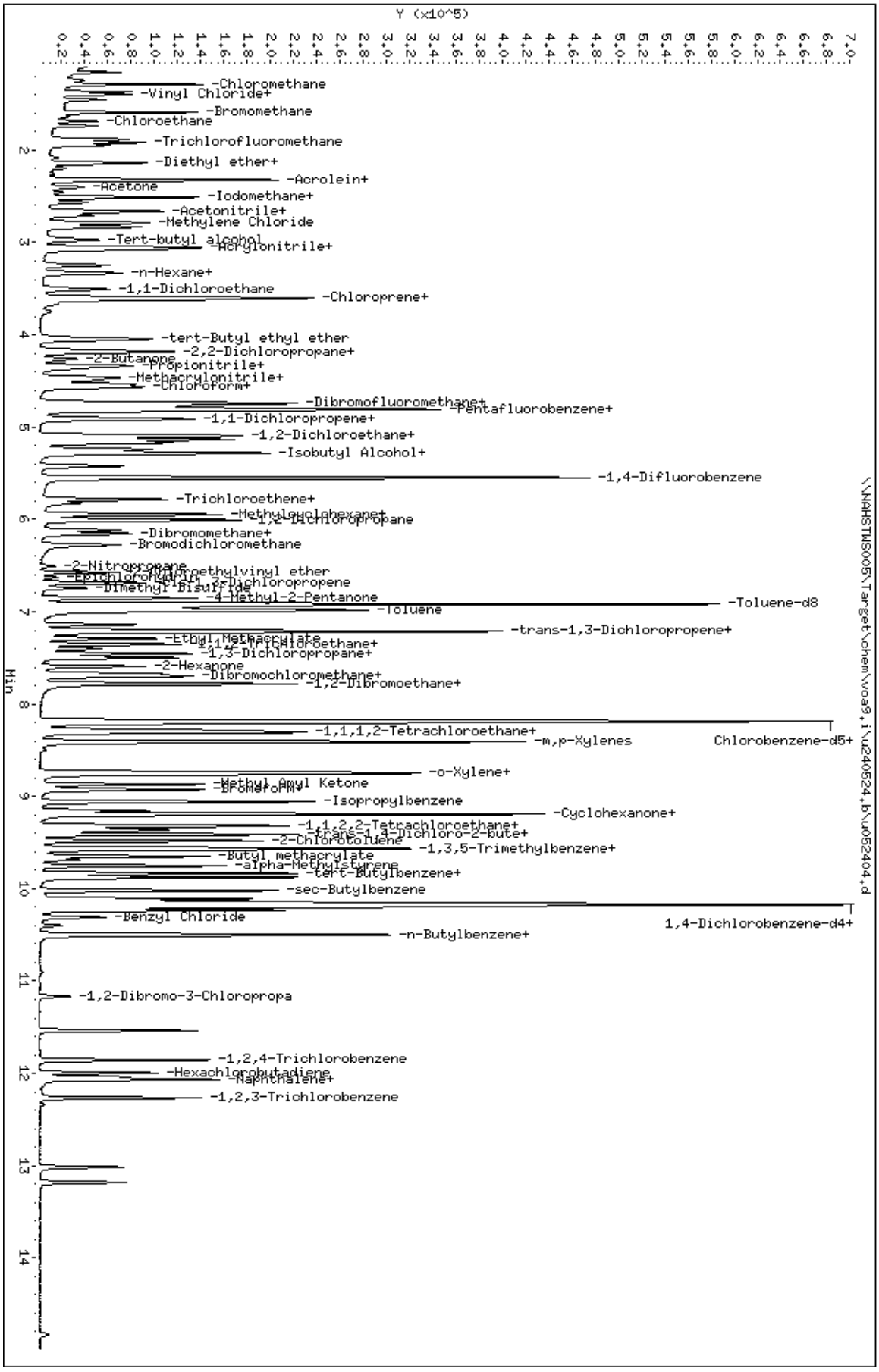
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.834	9.835	(0.967)	98559	17.8338	17.83
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115540	17.8777	17.87
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	131668	17.9292	17.92
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	115418	18.0508	18.05
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70482	18.8310	18.83
84	1,4-Dichlorobenzene	146	10.190	10.187	(1.002)	75133	19.1267	19.12
86	Benzyl Chloride	91	10.310	10.311	(1.260)	37458	18.3970	18.39
87	n-Butylbenzene	91	10.490	10.491	(1.032)	102408	17.7667	17.76
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	71777	19.4112	19.41
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5073	18.1342	18.13
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	44903	16.9233	16.92
91	Hexachlorobutadiene	225	11.997	11.994	(1.180)	18586	17.6334	17.63
92	Naphthalene	128	12.065	12.065	(1.187)	106514	18.9245	18.92
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	42818	17.3304	17.33
146	Methyl acetate	43	2.708	2.712	(0.563)	43387	21.9546	21.95
138	Freon TF	101	2.322	2.330	(0.483)	49055	18.3801	18.38
141	Cyclohexane	56	4.777	4.781	(0.993)	51369	18.0966	18.09
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14110	43.6648	43.66
147	Methylcyclohexane	55	5.943	5.943	(1.071)	79101	17.9800	17.98
135	1,4-Dioxane	88	6.168	6.165	(1.282)	6941	381.296	381.29
132	n-Butanol	56	5.823	5.824	(1.210)	16755	358.898	358.89(a)
136	n-Hexane	57	3.330	3.338	(0.692)	33169	18.8345	18.83
139	Diethyl ether	59	2.138	2.142	(0.444)	22234	18.7995	18.79
148	Tert-butyl alcohol	59	2.970	2.971	(0.617)	53086	483.780	483.77
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	40483	454.348	454.34
152	Amyl alcohol	42	7.398	7.398	(0.904)	19280	405.162	405.16
156	Diisopropyl ether	45	3.615	3.619	(0.751)	105137	18.3613	18.36
162	Butyl acrylate	55	8.732	8.729	(1.067)	59025	16.9983	16.99
187	n-Amyl acetate	43	8.927	8.927	(1.091)	65488	20.3767	20.37
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	138955	18.0309	18.03
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	106162	17.7150	17.71
167	Ethanol	45	2.082	2.086	(0.433)	8075	463.544	463.54
172	tert-Butyl formate	59	5.242	5.239	(1.090)	54085	51.1787	51.17
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79695	462.143	462.14
174	tert-Amyl methyl ether	73	5.283	5.284	(1.098)	97349	17.7589	17.75
175	tert-Butyl ethyl ether	59	4.046	4.047	(0.841)	93897	17.0413	17.04
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	54085	502.443	502.44
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	216113	394.369	394.36
140	1,3-Butadiene	54	1.396	1.400	(0.290)	17633	18.0056	18.00
182	Epichlorohydrin	57	6.629	6.629	(1.195)	11094	96.3005	96.30
M 94	1,2-Dichloroethylene (total)	96				66160	33.6434	33.64
M 95	Xylenes (total)	106				175341	53.6301	53.63
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	45116	17.4234	17.42
130	Ethyl Acetate	43	4.335	4.339	(0.901)	44120	21.3604	21.36
131	Methyl Acrylate	55	4.365	4.365	(0.907)	42946	20.4287	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.942)	60148	17.7686	17.76
134	Cyclohexanone	55	9.152	9.152	(0.900)	37141	392.362	392.36(a)
185	Isoprene	39	2.146	2.154	(0.446)	8219	19.5075	19.50
188	Isopropyl acetate	43	5.280	5.280	(0.951)	104266	20.0258	20.02
150	Allyl alcohol	57	3.330	3.338	(0.692)	33169	376.691	376.69
194	Acetaldehyde	44	1.452	1.456	(0.302)	93319	279.315	279.31
195	Methyl Amyl Ketone	43	8.867	8.864	(1.084)	78283	19.0161	19.01

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14581	15.2158	15.21
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	79101	18.1004	18.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	38081	18.9991	18.99
159 Propylene oxide	43	2.194	2.199	(0.456)	4834	36.5245	36.52
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27419	17.4940	17.49

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

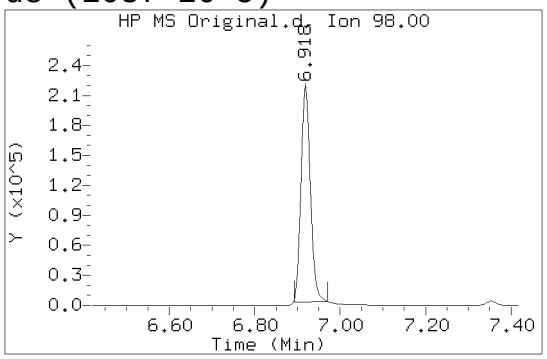
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LabSampID : VLCSDW-240524

Toluene-d8 (2037-26-5)

Reason Code: MPT

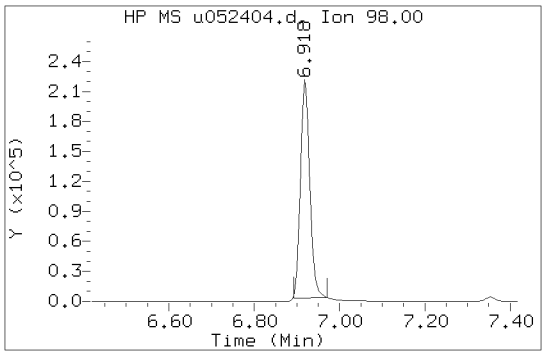
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28-May-2024
10:11
tianna
smith



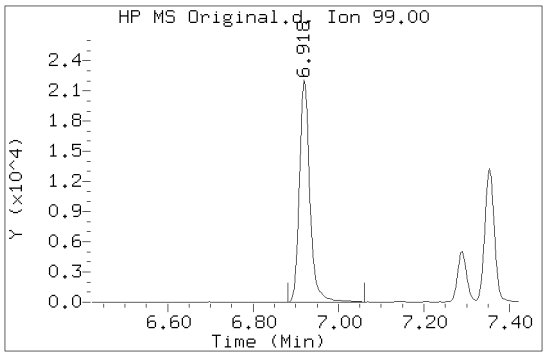
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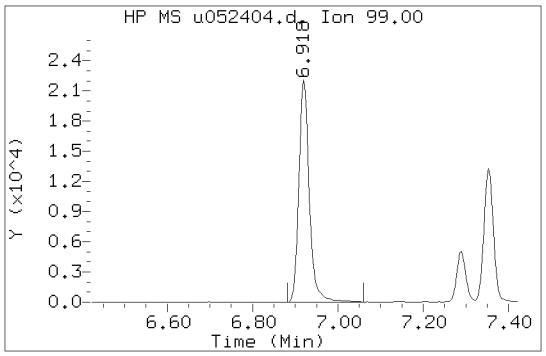
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smith



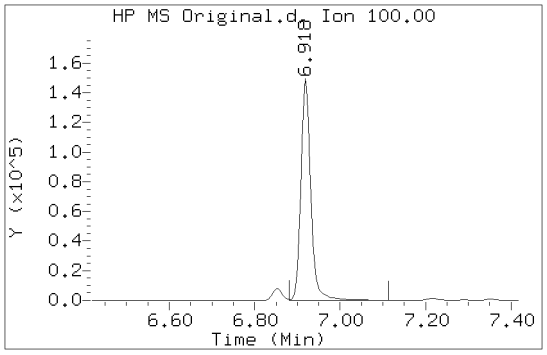
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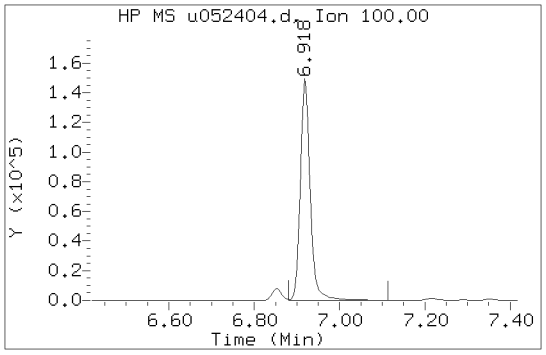
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AFTER

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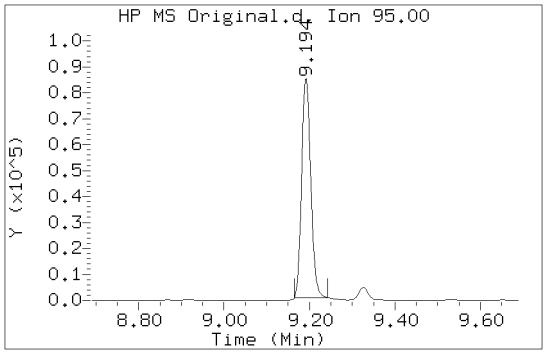


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

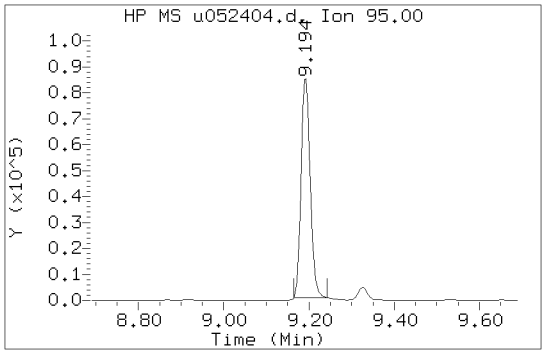
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HEIGHT
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28-May-2024
10:11
tianna
smith



AFTER

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HEIGHT
84510
28-May-2024
10:11
tianna
smith



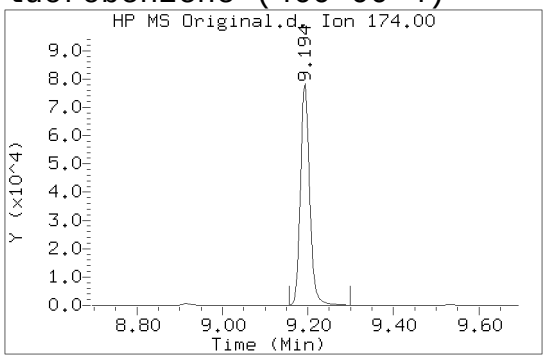
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InstruID : VOA9.i
LabSampID : VLCSDW-240524

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

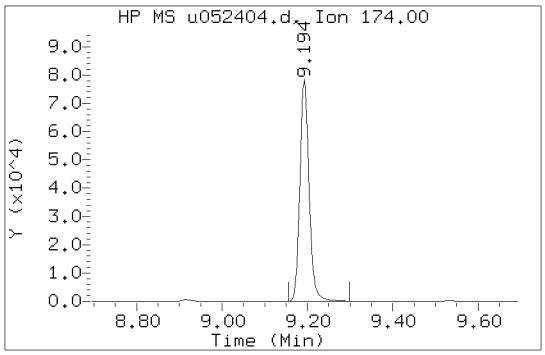
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HEIGHT
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28-May-2024
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smith



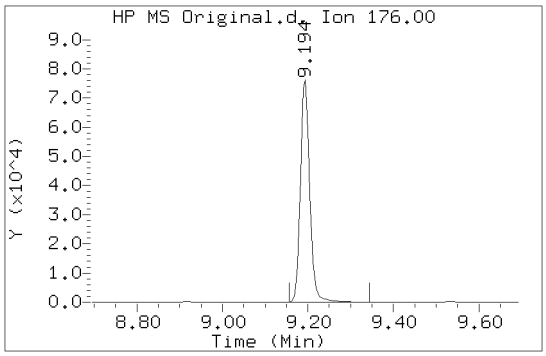
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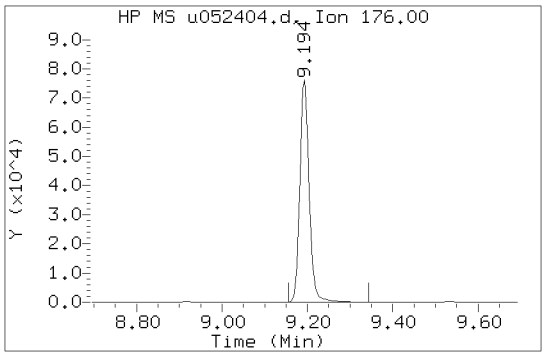
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28-May-2024
10:11
tianna
smith



AFTER

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tianna
smith



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
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Inj Date : 24-MAY-2024 14:18
Operator : FT Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:13 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.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	4.811	4.811	(1.000)	246217	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	87927	54.7139	54.71
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	112676	57.8574	57.85
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	360374	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	327810	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	338097	55.6383	55.63(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125651	55.7978	55.79
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167574	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D

Date : 24-MAY-2024 14:18

Client ID: VBLKW-240524

Instrument: VOA9.i

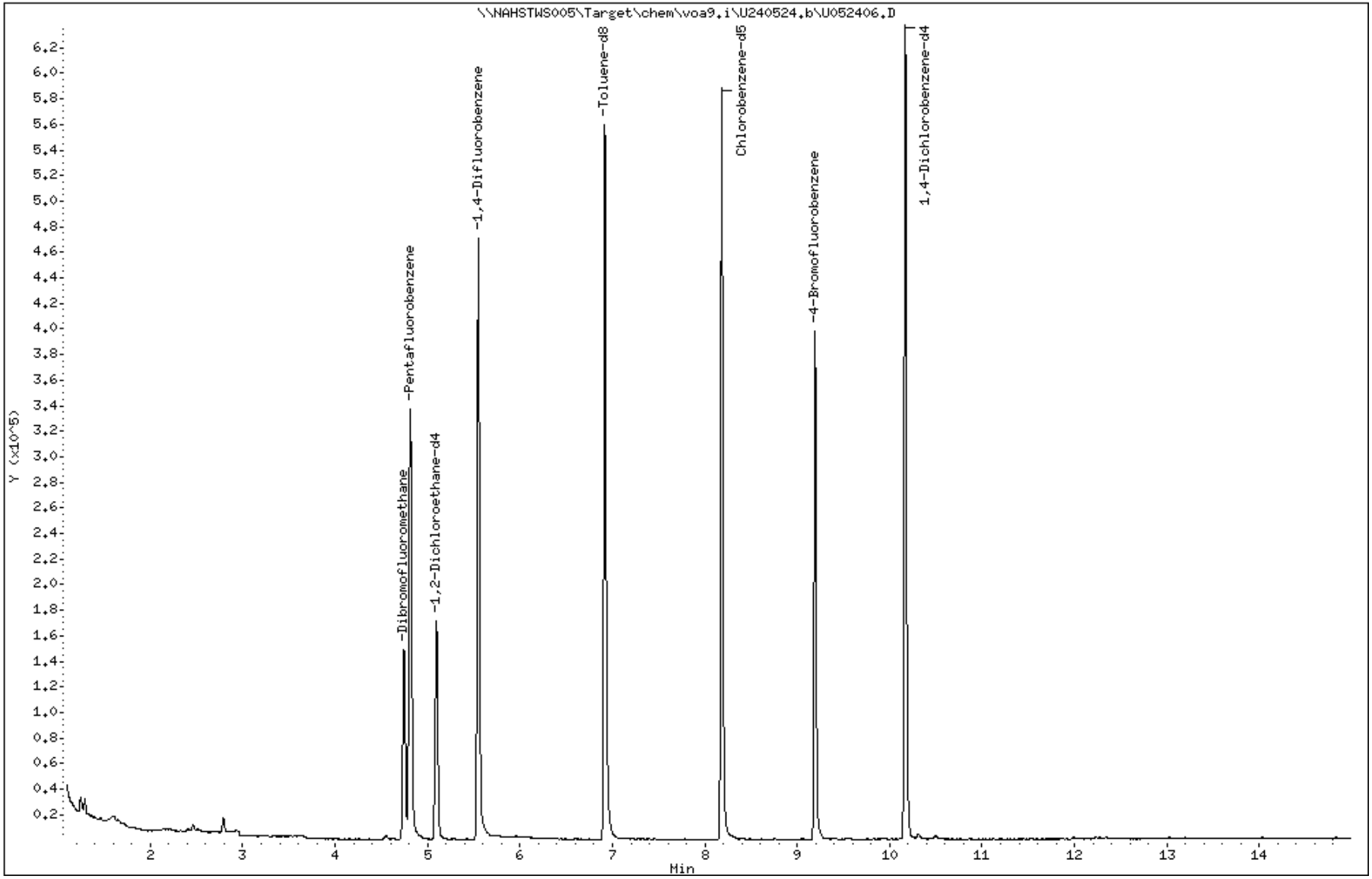
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Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18

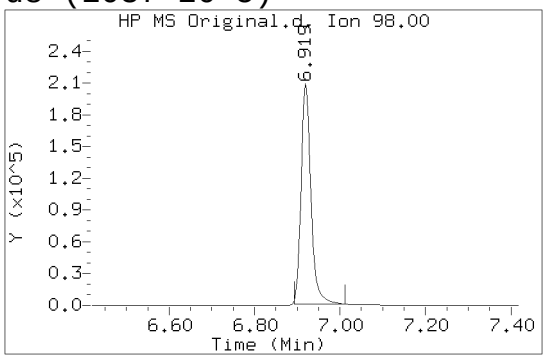


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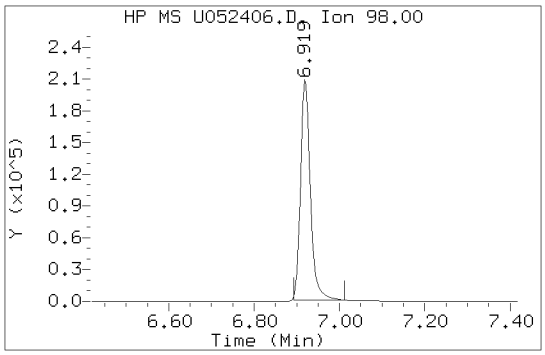
Toluene-d8 (2037-26-5)

Reason Code: MPT

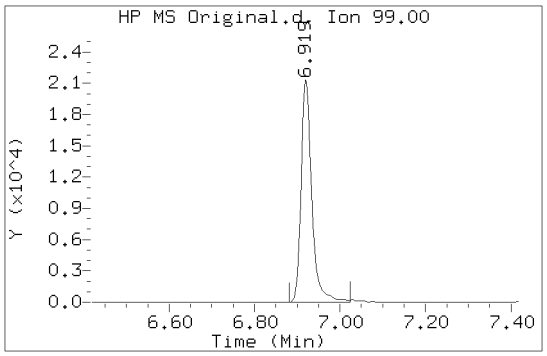
BEFORE
MASS
98
AREA
338097
HEIGHT
208047
21-Jun-2024
12:14
s
zaid



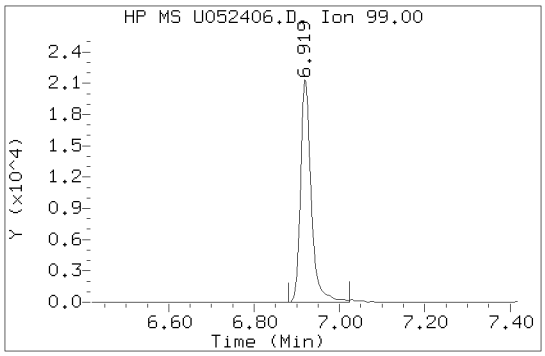
AFTER
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AREA
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HEIGHT
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21-Jun-2024
12:14
s
zaid



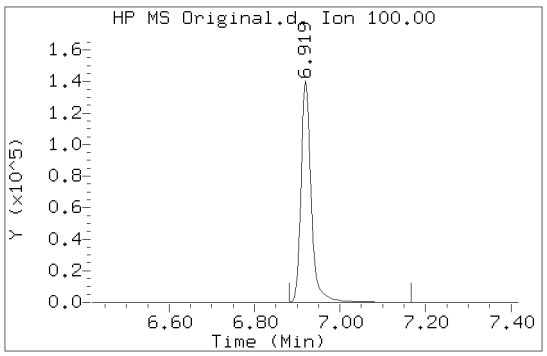
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MASS
99
AREA
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HEIGHT
21320
21-Jun-2024
12:14
s
zaid



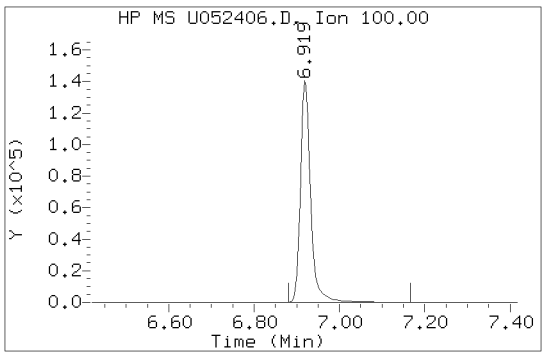
AFTER
MASS
99
AREA
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HEIGHT
21320
21-Jun-2024
12:14
s
zaid



BEFORE
MASS
100
AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



AFTER
MASS
100
AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052411.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052411.D
Lab Smp Id: HS24051276-03 Client Smp ID: HS24051276-03
Inj Date : 24-MAY-2024 16:05
Operator : FT Inst ID: VOA9.i
Smp Info : HS24051276-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:13 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

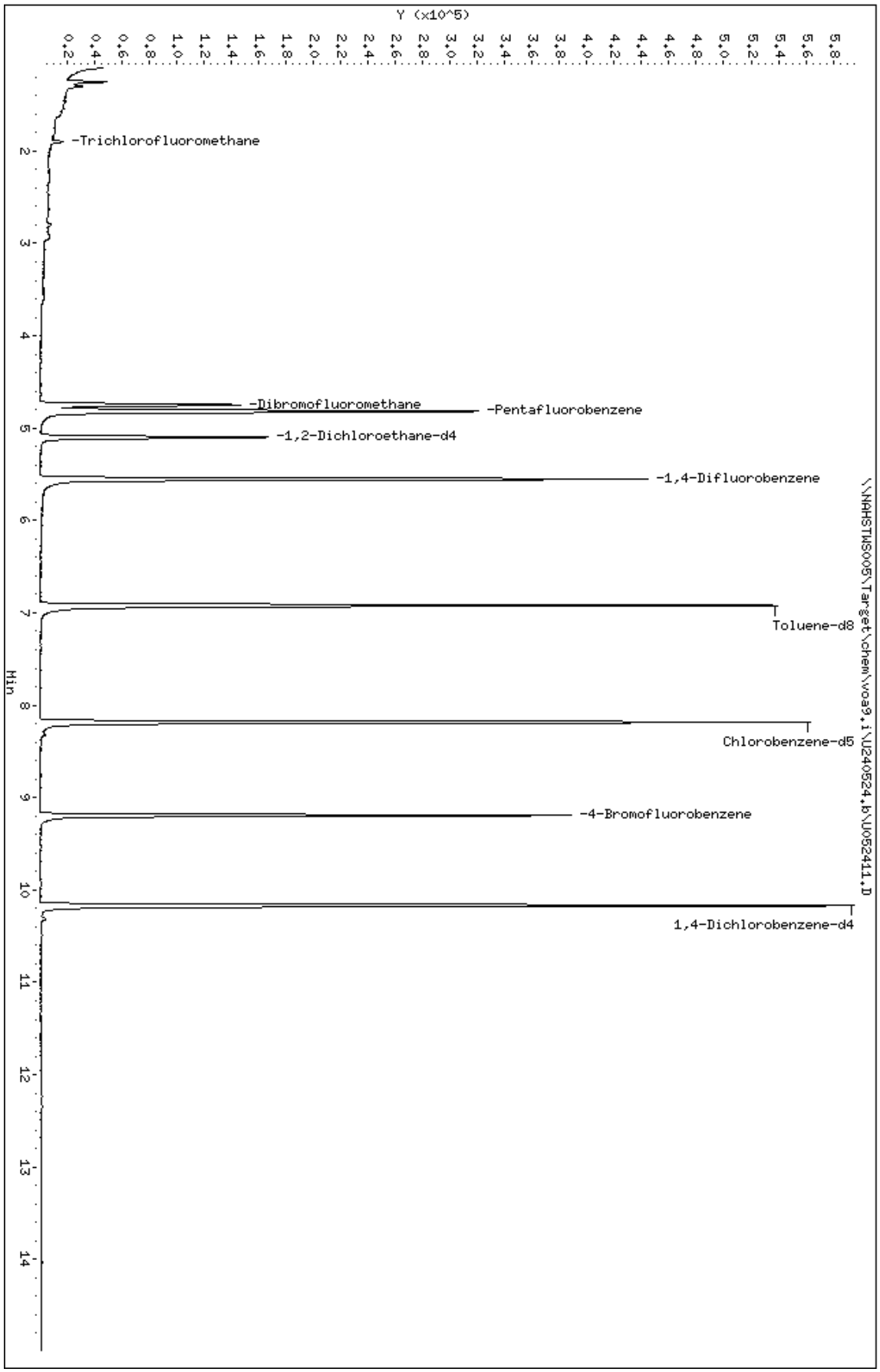
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.811	(1.000)	235802	50.0000	
	8 Trichlorofluoromethane	101	1.899	1.891	(0.394)	5763	2.36449	2.36(H)
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	86612	56.2661	56.26
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	108822	58.3495	58.34
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	345752	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	314138	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	331882	56.9907	56.99(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121486	56.2987	56.29
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	156995	50.0000	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240524,b\U052411.D
Date : 24-MAY-2024 16:05
Client ID: HS24051276-03
Sample Info: HS24051276-03
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052411.D

Date : 24-MAY-2024 16:05

Client ID: HS24051276-03

Instrument: VOA9.i

Sample Info: HS24051276-03

Purge Volume: 5.0

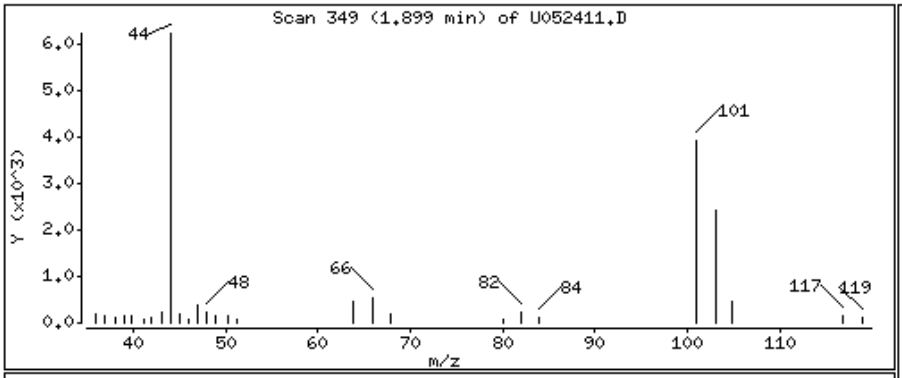
Operator: FT

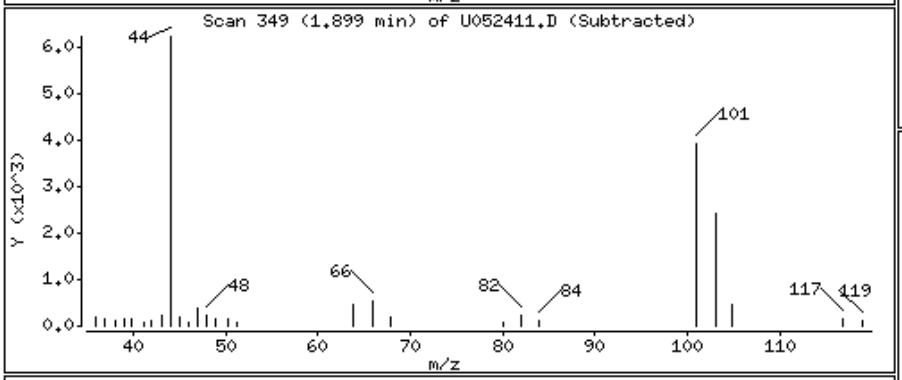
Column phase: DB624

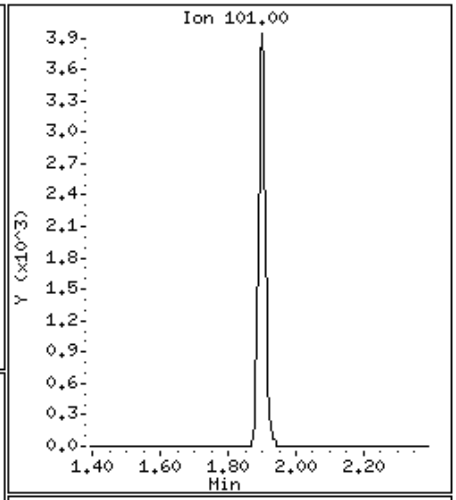
Column diameter: 0.18

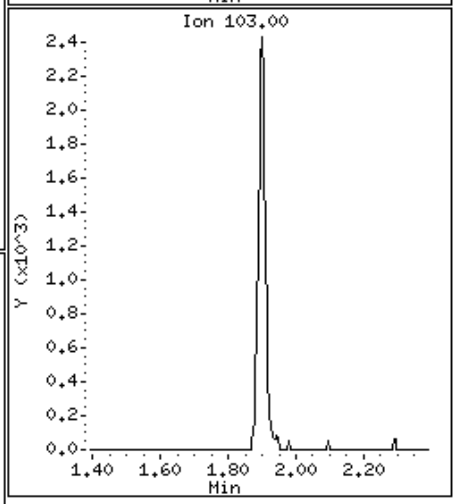
8 Trichlorofluoromethane

Concentration: 2.36 ug/l







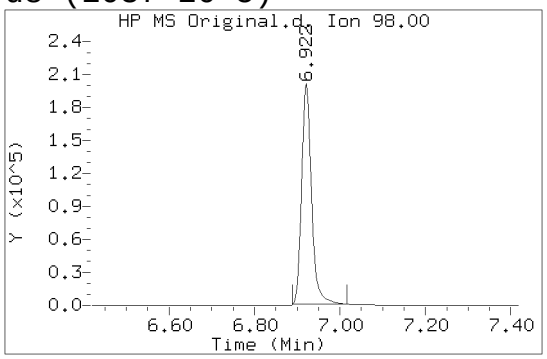


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052411.D
Inj Date : 24-MAY-2024 16:05
InstruID : VOA9.i
LabSampID : HS24051276-03

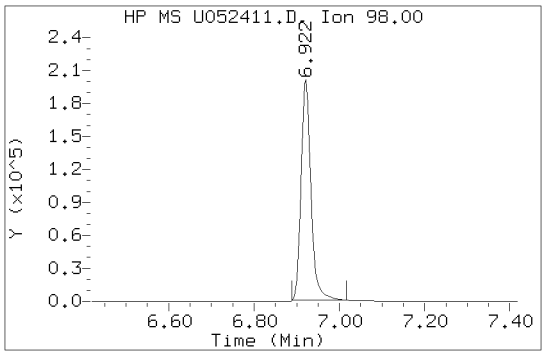
Toluene-d8 (2037-26-5)

Reason Code: MPT

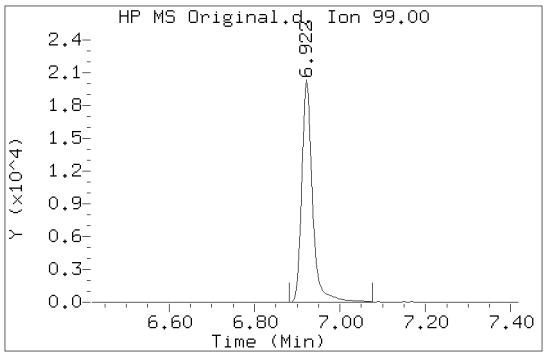
BEFORE
MASS
98
AREA
331882
HEIGHT
200678
21-Jun-2024
12:14
s
zaid



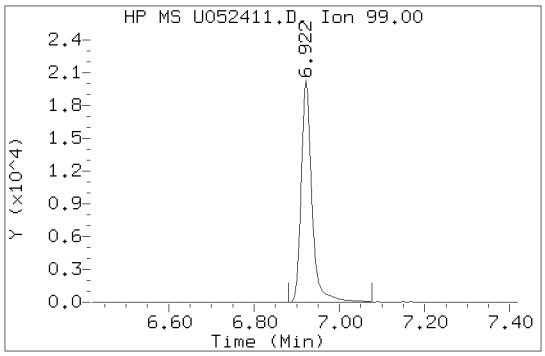
AFTER
MASS
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AREA
331882
HEIGHT
200678
21-Jun-2024
12:14
s
zaid



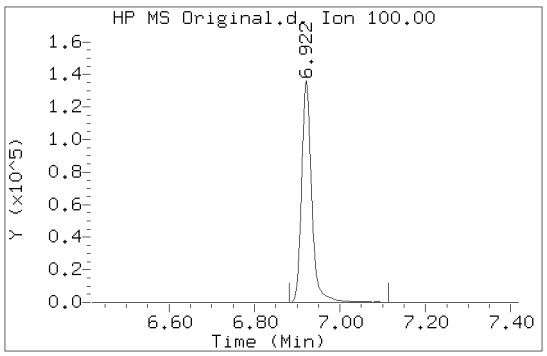
BEFORE
MASS
99
AREA
36357
HEIGHT
20368
21-Jun-2024
12:14
s
zaid



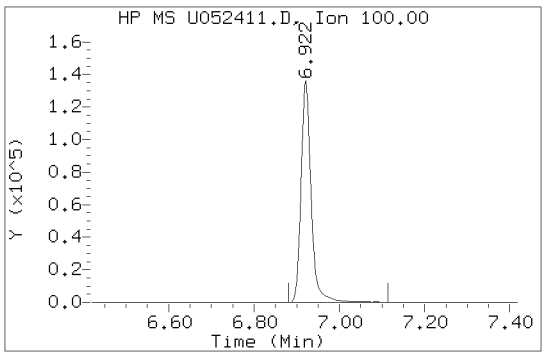
AFTER
MASS
99
AREA
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HEIGHT
20368
21-Jun-2024
12:14
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zaid



BEFORE
MASS
100
AREA
229841
HEIGHT
136192
21-Jun-2024
12:14
s
zaid



AFTER
MASS
100
AREA
229841
HEIGHT
136192
21-Jun-2024
12:14
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052414.D Page 1
Report Date: 21-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052414.D
Lab Smp Id: HS24051276-01 Client Smp ID: HS24051276-01
Inj Date : 24-MAY-2024 17:10
Operator : FT Inst ID: VOA9.i
Smp Info : HS24051276-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:14 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

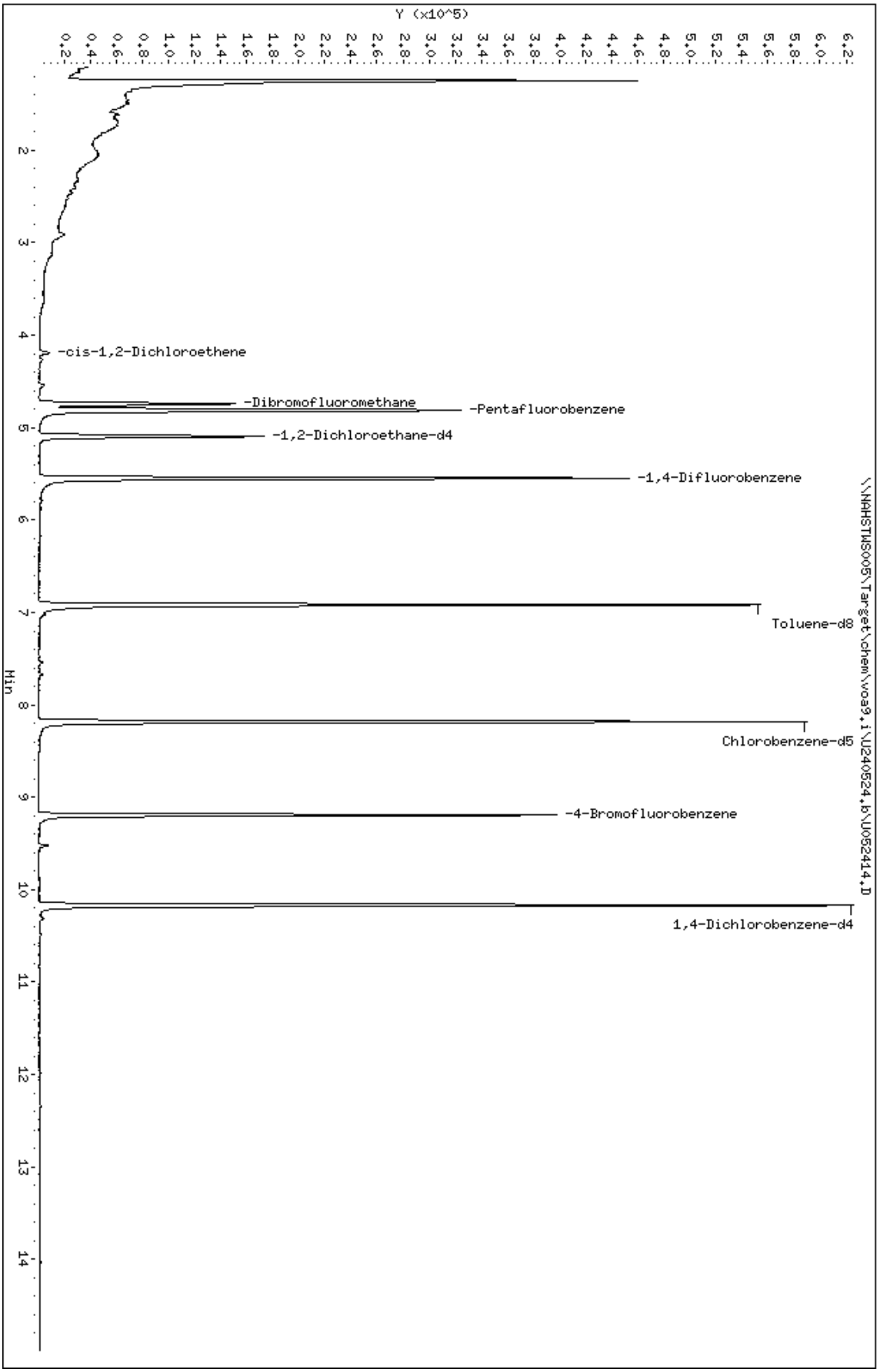
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.815	(1.000)	236608	50.0000	
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	3770	1.84096	1.84
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	88434	57.2470	57.24
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	106888	57.1095	57.10(M)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	353791	50.0000	
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	321745	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	338274	56.7154	56.71(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	123234	55.7558	55.75
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	162047	50.0000	
M	94 1,2-Dichloroethylene (total)	96				3770	2.00828	2.00(a)

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\U240524,b\U052414.D
Date : 24-MAY-2024 17:10
Client ID: HS2405l276-01
Sample Info: HS2405l276-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052414.D

Date : 24-MAY-2024 17:10

Client ID: HS24051276-01

Instrument: VOA9.i

Sample Info: HS24051276-01

Purge Volume: 5.0

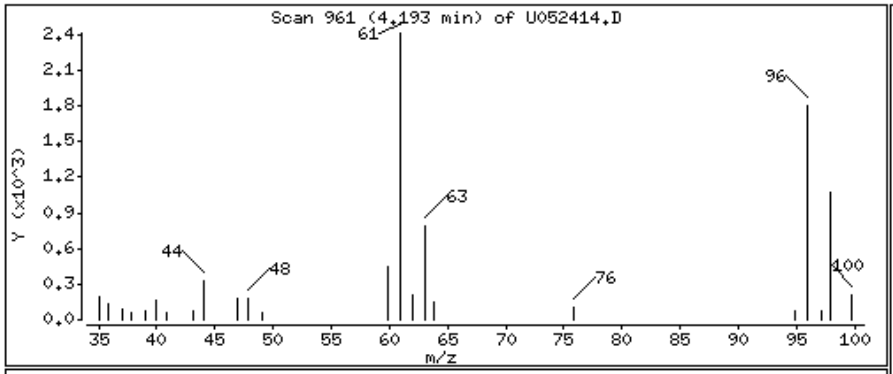
Operator: FT

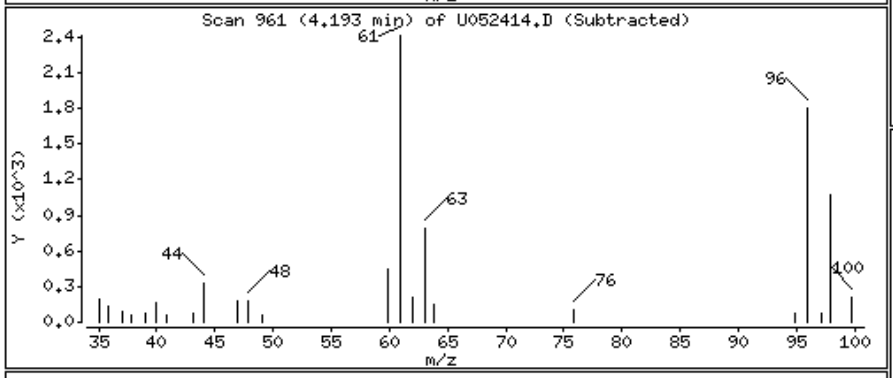
Column phase: DB624

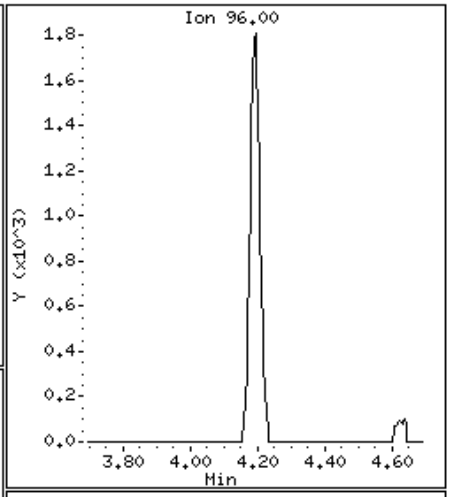
Column diameter: 0.18

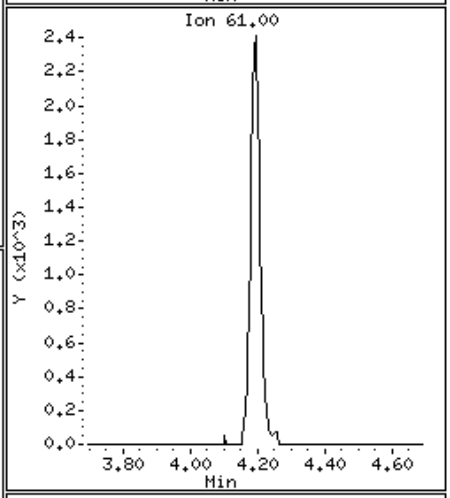
27 cis-1,2-Dichloroethene

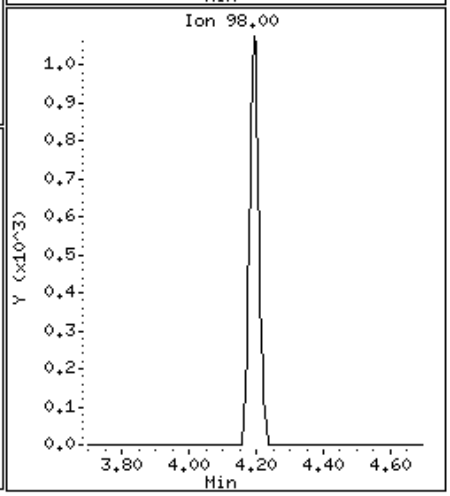
Concentration: 1.84 ug/l











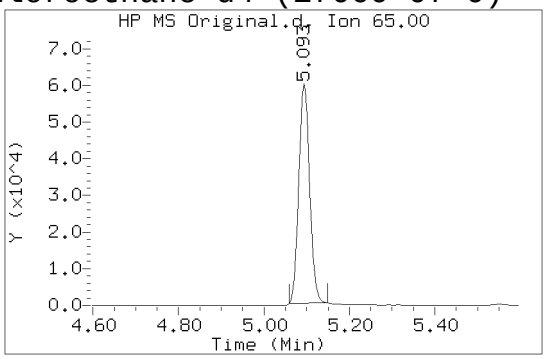
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052414.D
Inj Date : 24-MAY-2024 17:10
InstruID : VOA9.i
LabSampID : HS24051276-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MPT

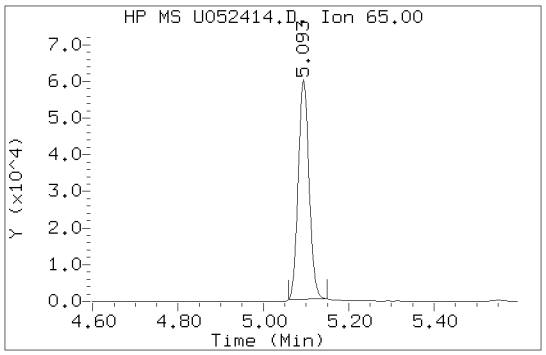
BEFORE

MASS
65
AREA
106888
HEIGHT
59854
21-Jun-2024
12:14
s
zaid



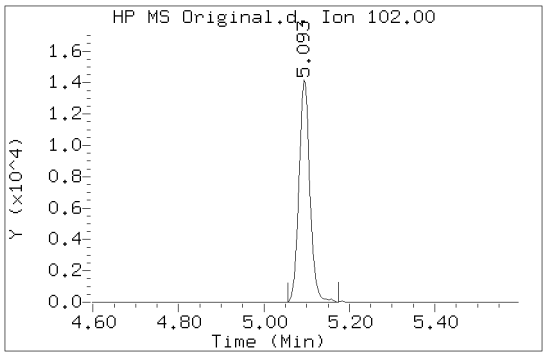
AFTER

MASS
65
AREA
106888
HEIGHT
59854
21-Jun-2024
12:19
s
zaid



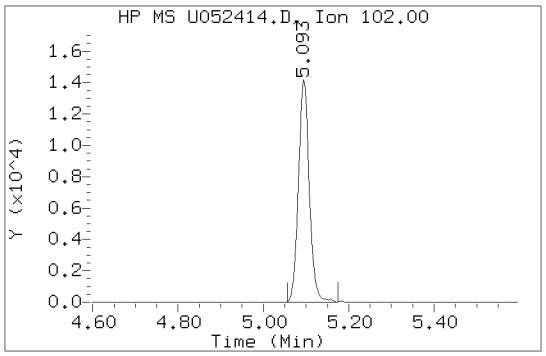
BEFORE

MASS
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AREA
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HEIGHT
14171
21-Jun-2024
12:14
s
zaid



AFTER

MASS
102
AREA
25534
HEIGHT
14171
21-Jun-2024
12:19
s
zaid

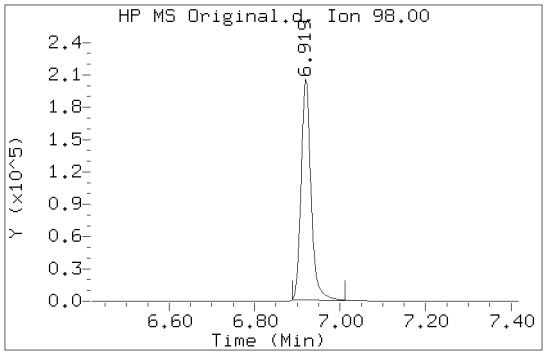


Toluene-d8 (2037-26-5)

Reason Code: MPT

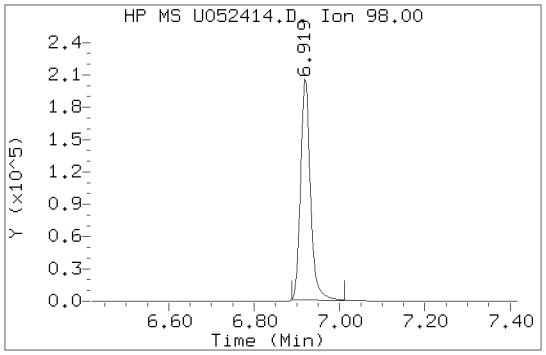
BEFORE

MASS
98
AREA
338274
HEIGHT
205338
21-Jun-2024
12:14
s
zaid



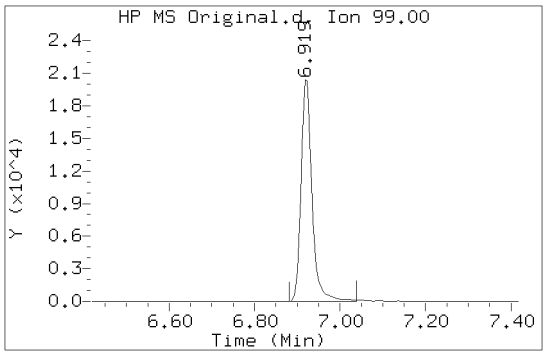
AFTER

MASS
98
AREA
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HEIGHT
205338
21-Jun-2024
12:19
s
zaid



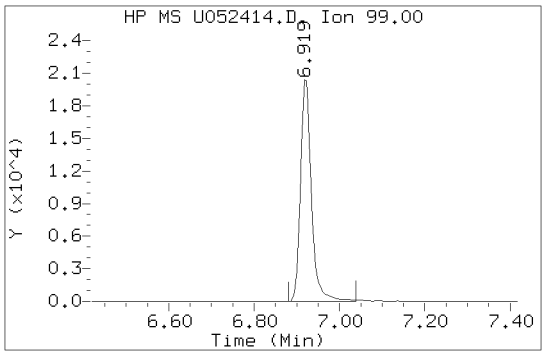
BEFORE

MASS
99
AREA
37091
HEIGHT
20416
21-Jun-2024
12:14
s
zaid



AFTER

MASS
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HEIGHT
20416
21-Jun-2024
12:19
s
zaid



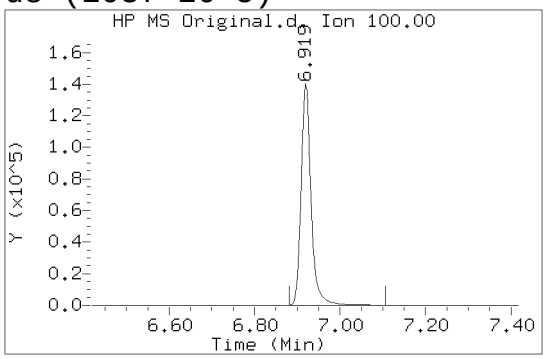
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052414.D
Inj Date : 24-MAY-2024 17:10
InstruID : VOA9.i
LabSampID : HS24051276-01

Toluene-d8 (2037-26-5)

Reason Code: MPT

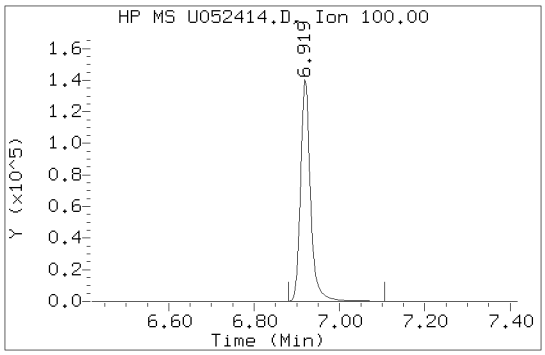
BEFORE

MASS
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140222
21-Jun-2024
12:14
s
zaid



AFTER

MASS
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231925
HEIGHT
140222
21-Jun-2024
12:19
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-MAY-2024 22:38
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:14 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.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	4.815	4.815	(1.000)	248695	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	61669	50.0000	46.47
3 Chloromethane	50	1.295	1.295	(0.269)	205163	50.0000	44.68
4 Propionitrile	54	4.335	4.335	(0.900)	145753	500.000	582.71
5 Vinyl Chloride	62	1.378	1.378	(0.286)	98503	50.0000	43.73
6 Bromomethane	94	1.614	1.614	(0.335)	35965	50.0000	52.61
7 Chloroethane	64	1.700	1.700	(0.353)	67318	50.0000	42.39
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	119533	50.0000	46.50
9 Acrolein	56	2.262	2.262	(0.470)	9162	100.000	98.88
10 Acetone	43	2.409	2.409	(0.500)	64999	100.000	92.24
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	67718	50.0000	43.26
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	265007	1000.00	1015.75
13 Acetonitrile	39	2.671	2.671	(0.555)	97567	500.000	475.01
14 Allyl Chloride	41	2.671	2.671	(0.555)	235863	50.0000	52.05
15 Iodomethane	142	2.465	2.465	(0.512)	21055	100.000	70.71
16 Acrylonitrile	53	3.065	3.065	(0.636)	69878	100.000	108.45
17 Methylene Chloride	84	2.795	2.795	(0.580)	87039	50.0000	47.43
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	232169	50.0000	54.43
19 Carbon Disulfide	76	2.521	2.521	(0.524)	403542	100.000	85.19
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	75081	50.0000	41.85

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96497	100.000	92.76
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	145618	50.0000	47.55

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D Page 2
Report Date: 21-Jun-2024 12:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	120478	50.0000	43.94
	24 2-Butanone	43	4.264	4.264	(0.886)	93678	100.000	90.08
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	61060	50.0000	51.99(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	81356	50.0000	37.08
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	89433	50.0000	41.54
	28 Chloroform	83	4.571	4.571	(0.949)	149337	50.0000	46.98
	29 Bromochloromethane	128	4.470	4.470	(0.928)	45765	50.0000	48.74
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	93120	50.0000	57.34
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	116765	50.0000	46.58
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	111433	50.0000	43.69
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118938	50.0000	47.07
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	93352	50.0000	45.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110848	50.0000	56.34
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	361089	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	346962	50.0000	46.70
	38 Trichloroethene	130	5.786	5.786	(1.043)	87613	50.0000	43.77
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	101266	50.0000	46.06
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	35078	50.0000	54.45
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	54737	100.000	73.06
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	93346	50.0000	46.42
	43 2-Nitropropane	43	6.506	6.506	(1.351)	20931	50.0000	56.68
	44 Dibromomethane	93	6.116	6.116	(1.102)	53224	50.0000	42.74
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	200258	100.000	88.98
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	118342	50.0000	46.66
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	326235	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	365042	50.0000	60.35
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	135989	50.0000	51.05
	50 Toluene	91	6.978	6.978	(0.853)	355521	50.0000	43.12
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	95519	50.0000	43.41
	52 2-Hexanone	43	7.589	7.589	(0.928)	123131	100.000	81.70
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	67635	50.0000	46.80
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	145494	50.0000	46.80
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	77650	50.0000	48.56
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68914	50.0000	44.33
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	77421	50.0000	44.37
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	70679	50.0000	44.07
	59 Chlorobenzene	112	8.208	8.208	(1.003)	226686	50.0000	46.85
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77020	50.0000	45.25
	61 Ethylbenzene	106	8.305	8.305	(1.015)	114514	50.0000	43.33
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	287539	100.000	88.60
	63 o-Xylene	106	8.744	8.744	(1.069)	144312	50.0000	45.43
	64 Styrene	104	8.759	8.759	(1.071)	245309	50.0000	45.52
	66 Bromoform	173	8.916	8.916	(1.090)	47324	50.0000	43.65
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	358773	50.0000	45.54
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	109212	50.0000	45.58
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	133859	50.0000	59.74
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176655	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	107420	50.0000	44.06
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21273	50.0000	40.46
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	414851	50.0000	45.46
	74 Bromobenzene	156	9.314	9.314	(0.916)	97077	50.0000	41.78
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	290980	50.0000	46.21

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	251895	50.0000	42.60
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	289176	50.0000	42.94

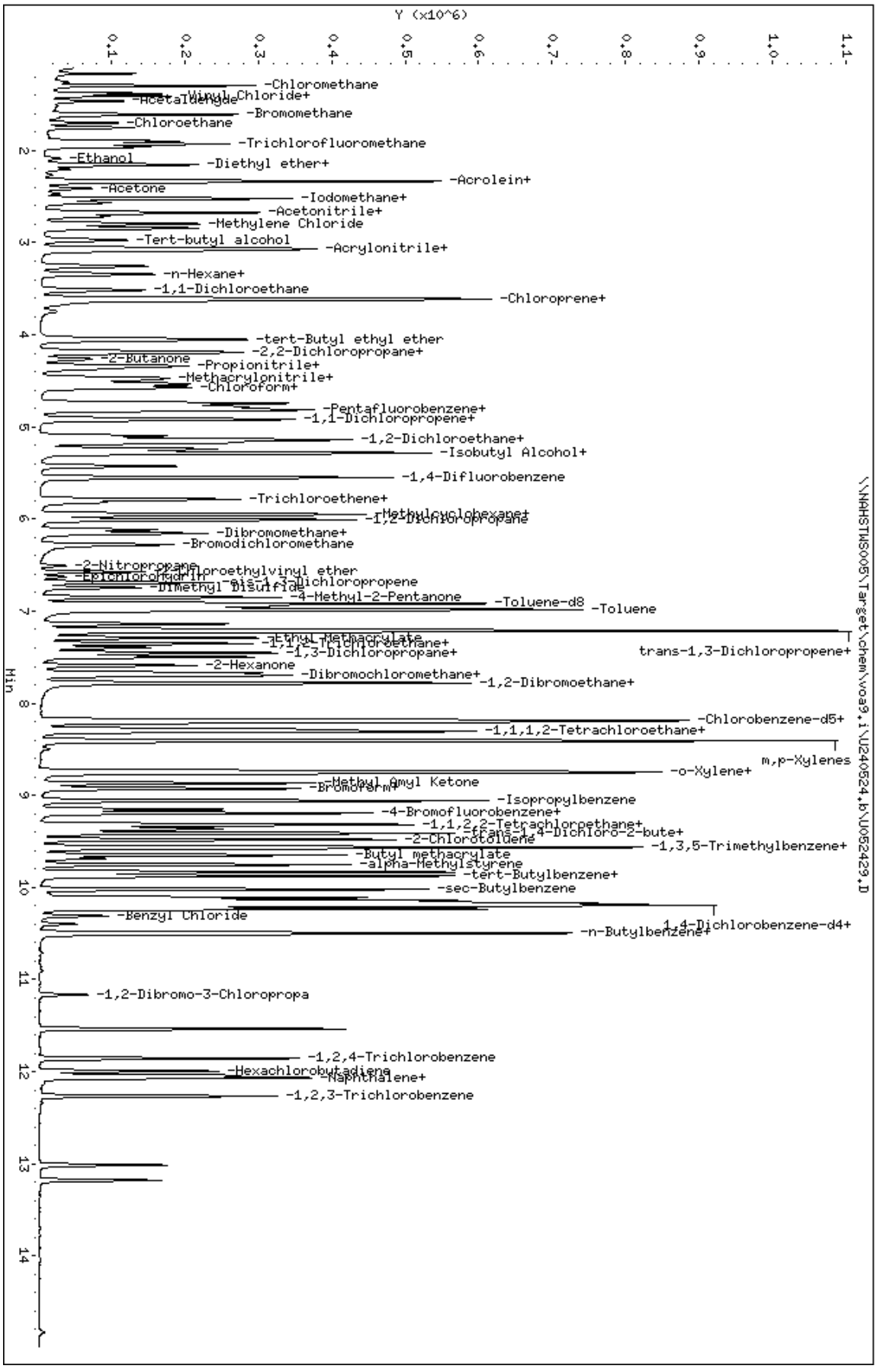
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	250972	50.0000	45.43	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	285160	50.0000	44.14	
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	335062	50.0000	45.64	
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	292932	50.0000	45.83	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	170555	50.0000	45.70	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	178745	50.0000	45.98	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	61117	50.0000	29.95	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	246327	50.0000	41.91	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	167934	50.0000	45.73	
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12546	50.0000	42.22	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	106237	50.0000	40.06	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	44452	50.0000	41.69	
92	Naphthalene	128	12.065	12.065	(1.187)	252564	50.0000	44.89	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	96057	50.0000	38.89	
146	Methyl acetate	43	2.712	2.712	(0.563)	94391	50.0000	48.55	
138	Freon TF	101	2.337	2.337	(0.485)	137352	50.0000	51.29	
141	Cyclohexane	56	4.781	4.781	(0.993)	130414	50.0000	47.59	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	36611	100.000	114.50	
147	Methylcyclohexane	55	5.944	5.944	(1.071)	233121	50.0000	53.77	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	19318	1000.00	1061.33	
132	n-Butanol	56	5.820	5.820	(1.209)	46417	1000.00	990.92	
136	n-Hexane	57	3.342	3.342	(0.694)	75341	50.0000	42.34	
139	Diethyl ether	59	2.146	2.146	(0.446)	64113	50.0000	54.18	
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	130639	1000.00	1175.29	
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	106047	1000.00	1170.77	
152	Amyl alcohol	42	7.394	7.394	(0.904)	55388	1000.00	1108.19	
156	Diisopropyl ether	45	3.619	3.619	(0.752)	309775	50.0000	54.21	
162	Butyl acrylate	55	8.729	8.729	(1.067)	172407	50.0000	49.96	
187	n-Amyl acetate	43	8.927	8.927	(1.091)	152914	50.0000	47.00	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	413912	50.0000	53.52	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	315473	50.0000	52.67	
167	Ethanol	45	2.086	2.086	(0.433)	20598	1000.00	1178.73	
172	tert-Butyl formate	59	5.239	5.239	(1.088)	135634	100.000	122.11	
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	210009	1000.00	1197.04	
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	278696	50.0000	50.67	
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	273515	50.0000	49.47	
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	135634	1000.00	1205.95	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	599001	1000.00	1109.32	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	45291	50.0000	46.09	
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23594	200.000	203.23	
M 94	1,2-Dichloroethylene (total)	96				164514	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	116155	50.0000	44.88	
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96497	50.0000	46.42	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	117452	50.0000	54.96	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	142780	50.0000	42.44	
134	Cyclohexanone	55	9.149	9.149	(0.900)	98904	1000.00	1046.60	
185	Isoprene	39	2.157	2.157	(0.448)	19962	50.0000	47.22	
188	Isopropyl acetate	43	5.284	5.284	(0.952)	263413	50.0000	50.40	
150	Allyl alcohol	57	3.342	3.342	(0.694)	75341	1000.00	846.90	
194	Acetaldehyde	44	1.460	1.460	(0.303)	103956	200.000	310.10	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	206121	50.0000	50.38	
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	51828	50.0000	46.11	

133 Ethyl Acrylate	55	5.944	5.944 (1.234)	233121	50.0000	53.16
163 Butyl methacrylate	41	9.647	9.647 (0.949)	107185	50.0000	54.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	11850	100.000	90.25
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	90422	50.0000	52.10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240524,b\U052429,D
Date : 24-MAY-2024 22:38
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Inj Date : 24-MAY-2024 22:38
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

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WorkOrder: HS24051277

Groundwater Treatment Plant Quarterly Influent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

22-Jun-2024

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HS24051277 E2400568 Perch Level IV Report

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HS24051277 Wetchem 9056_anions_W

HS24051277 Wetchem COD

HS24051277 Wetchem O&G_1664_W_HS

HS24051277-MSSEMI-SW8270SIM

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HS24051277 Groundwater Treatment Plant Quarterly Influent Samples COVER PAGE

ALS WO# HS24051277

HS24051277 Groundwater Treatment Plant Quarterly Influent Samples Final

ALS WO# HS24051277

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June 07, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051277**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Influent Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on May 22, 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: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS24051277

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051277-01	LH18/24-SP140_052124	Water		21-May-2024 13:00	22-May-2024 10:15	☐
HS24051277-02	Trip Blank	Water		21-May-2024 00:00	22-May-2024 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS24051277

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 212606

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R467761

Sample ID: LH18/24-SP140_052124 (HS24051277-01)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: Trip Blank (HS24051277-02)

• Surrogates failed outside control limits high. Sample is ND.

Metals by Method SW7470A

Batch ID: 212789

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 212449

Sample ID: HS24051276-01MSD

• MSD is for an unrelated sample

WetChemistry by Method SW9056

Batch ID: R467970

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E410.4

Batch ID: R467960

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E1664A

Batch ID: R467493

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS24051277
Sample ID: LH18/24-SP140_052124 Lab ID:HS24051277-01
Collection Date: 21-May-2024 13:00 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	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,1,1-Trichloroethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,1,2,2-Tetrachloroethane	25	U	12	25	25	ug/L	25	24-May-2024 20:08
1,1,2-Trichloroethane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,1-Dichloroethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,1-Dichloroethene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,1-Dichloropropene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,2,3-Trichlorobenzene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
1,2,3-Trichloropropane	25	U	12	25	25	ug/L	25	24-May-2024 20:08
1,2,4-Trichlorobenzene	25	U	12	25	25	ug/L	25	24-May-2024 20:08
1,2,4-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,2-Dibromo-3-chloropropane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,2-Dibromoethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,2-Dichlorobenzene	25	U	12	25	25	ug/L	25	24-May-2024 20:08
1,2-Dichloroethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
1,2-Dichloropropane	25	U	12	25	25	ug/L	25	24-May-2024 20:08
1,3,5-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,3-Dichlorobenzene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
1,3-Dichloropropane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
1,4-Dichlorobenzene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
2,2-Dichloropropane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
2-Butanone	25	U	12	25	50	ug/L	25	24-May-2024 20:08
2-Chlorotoluene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
2-Hexanone	25	U	25	25	50	ug/L	25	24-May-2024 20:08
4-Chlorotoluene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
4-Isopropyltoluene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
4-Methyl-2-pentanone	25	U	18	25	50	ug/L	25	24-May-2024 20:08
Acetone	25	U	10	25	50	ug/L	25	24-May-2024 20:08
Benzene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Bromobenzene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
Bromochloromethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Bromodichloromethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Bromoform	25	U	10	25	25	ug/L	25	24-May-2024 20:08
Bromomethane	25	U	10	25	25	ug/L	25	24-May-2024 20:08
Carbon disulfide	25	U	15	25	50	ug/L	25	24-May-2024 20:08
Carbon tetrachloride	25	U	12	25	25	ug/L	25	24-May-2024 20:08
Chlorobenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Chloroethane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Chloroform	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS24051277
Sample ID: LH18/24-SP140_052124 Lab ID:HS24051277-01
Collection Date: 21-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
cis-1,2-Dichloroethene	**1,800**		**5.0**	**25**	**25**	**ug/L**	25	24-May-2024 20:08
cis-1,3-Dichloropropene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Dibromochloromethane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Dibromomethane	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Dichlorodifluoromethane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Ethylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Hexachlorobutadiene	25	U	25	25	25	ug/L	25	24-May-2024 20:08
Isopropylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
m,p-Xylene	25	U	12	25	50	ug/L	25	24-May-2024 20:08
Methylene chloride	25	U	10	25	50	ug/L	25	24-May-2024 20:08
n-Butylbenzene	25	U	10	25	25	ug/L	25	24-May-2024 20:08
n-Propylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Naphthalene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
o-Xylene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
sec-Butylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Styrene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
tert-Butylbenzene	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Tetrachloroethene	**38**		**7.5**	**25**	**25**	**ug/L**	25	24-May-2024 20:08
Toluene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
trans-1,2-Dichloroethene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
trans-1,3-Dichloropropene	25	U	5.0	25	25	ug/L	25	24-May-2024 20:08
Trichloroethene	**2,800**		**5.0**	**25**	**25**	**ug/L**	25	24-May-2024 20:08
Trichlorofluoromethane	25	U	7.5	25	25	ug/L	25	24-May-2024 20:08
Vinyl chloride	**72**		**5.0**	**25**	**25**	**ug/L**	25	24-May-2024 20:08
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*25*	*24-May-2024 20:08*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*25*	*24-May-2024 20:08*
Surr: Dibromofluoromethane	*111*			**0**	*80-119*	*%REC*	*25*	*24-May-2024 20:08*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*25*	*24-May-2024 20:08*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 28-May-2024		Analyst: MBG
1,4-Dioxane	**0.35**	a	**0.010**	**0.0040**	**0.030**	**ug/L**	1	31-May-2024 15:06
Surr: 2-Fluorobiphenyl	*87.9*			**0**	*40-140*	*%REC*	*1*	*31-May-2024 15:06*
Surr: 4-Terphenyl-d14	*93.9*			**0**	*40-140*	*%REC*	*1*	*31-May-2024 15:06*
Surr: Nitrobenzene-d5	*76.4*			**0**	*40-140*	*%REC*	*1*	*31-May-2024 15:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS24051277
Sample ID: LH18/24-SP140_052124 Lab ID:HS24051277-01
Collection Date: 21-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-May-2024		Analyst: JC
Aluminum	**0.0696**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	29-May-2024 16:03
Antimony	0.0100	U	0.000400	0.0100	0.00500	mg/L	1	29-May-2024 16:03
Arsenic	**0.000728**	J	**0.000400**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Barium	**0.282**		**0.00190**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Beryllium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	29-May-2024 16:03
Cadmium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	29-May-2024 16:03
Calcium	**56.1**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	29-May-2024 16:03
Chromium	**0.00131**	J	**0.000400**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Cobalt	**0.00313**	J	**0.000100**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Iron	**0.384**		**0.0120**	**1.00**	**0.200**	**mg/L**	1	29-May-2024 16:03
Lead	0.0100	U	0.000600	0.0100	0.00500	mg/L	1	29-May-2024 16:03
Magnesium	**39.9**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	29-May-2024 16:03
Manganese	**0.347**		**0.000700**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Nickel	**0.00750**		**0.000600**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Potassium	**1.06**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	29-May-2024 16:03
Selenium	0.0100	U	0.00110	0.0100	0.00500	mg/L	1	29-May-2024 16:03
Silver	0.0100	U	0.000200	0.0100	0.00500	mg/L	1	29-May-2024 16:03
Sodium	**277**		**0.280**	**20.0**	**4.00**	**mg/L**	20	30-May-2024 12:42
Thallium	0.0100	U	0.000200	0.0100	0.00200	mg/L	1	29-May-2024 16:03
Vanadium	**0.000811**	J	**0.000600**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
Zinc	**0.0117**		**0.00200**	**0.0100**	**0.00500**	**mg/L**	1	29-May-2024 16:03
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 30-May-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	30-May-2024 20:01
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: MC
Oil and Grease	1.00	U	0.610	1.00	2.00	mg/L	1	23-May-2024 07:00
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**26.0**	a	**5.00**	**15.0**	**15.0**	**mg/L**	1	29-May-2024 16:30
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**378**		**2.00**	**2.50**	**5.00**	**mg/L**	10	29-May-2024 11:17
Sulfate	**63.5**		**0.200**	**0.250**	**0.500**	**mg/L**	1	29-May-2024 11:11
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS24051277
Sample ID: Trip Blank Lab ID:HS24051277-02
Collection Date: 21-May-2024 00:00 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	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 16:27
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-May-2024 16:27
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-May-2024 16:27
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 16:27
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-May-2024 16:27
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	24-May-2024 16:27
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS24051277
Sample ID: Trip Blank Lab ID:HS24051277-02
Collection Date: 21-May-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	24-May-2024 16:27
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-May-2024 16:27
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	24-May-2024 16:27
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-May-2024 16:27
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:27
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Trichlorofluoromethane	**2.9**		**0.30**	**1.0**	**1.0**	**ug/L**	1	24-May-2024 16:27
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:27
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*24-May-2024 16:27*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 16:27*
Surr: Dibromofluoromethane	*112*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 16:27*
Surr: Toluene-d8	*112*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 16:27*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Batch ID: 212449 **Start Date:** 23 May 2024 15:30 **End Date:** 23 May 2024 15:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051277-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 212606 **Start Date:** 28 May 2024 13:20 **End Date:** 28 May 2024 13:20
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051277-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 212789 **Start Date:** 30 May 2024 10:30 **End Date:** 30 May 2024 10:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051277-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 212449 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00		23 May 2024 15:30	30 May 2024 12:42	20
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00		23 May 2024 15:30	29 May 2024 16:03	1
Batch ID: 212606 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00		28 May 2024 13:20	31 May 2024 15:06	1
Batch ID: 212789 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00		30 May 2024 10:30	30 May 2024 20:01	1
Batch ID: R467493 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			23 May 2024 07:00	1
Batch ID: R467761 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			24 May 2024 20:08	25
HS24051277-02	Trip Blank	21 May 2024 00:00			24 May 2024 16:27	1
Batch ID: R467960 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			29 May 2024 16:30	1
Batch ID: R467970 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			29 May 2024 11:17	10
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			29 May 2024 11:11	1
Batch ID: R468746 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24051277-01	LH18/24-SP140_052124	21 May 2024 13:00			07 Jun 2024 09:22	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-212449** Units: **mg/L** Analysis Date: **29-May-2024 15:45**
Client ID: Run ID: **ICPMS07_467901** SeqNo: **8036160** PrepDate: **23-May-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	0.0100	0.00500								U
Arsenic	0.0100	0.00500								U
Barium	0.0100	0.00500								U
Beryllium	0.0100	0.00200								U
Cadmium	0.0100	0.00200								U
Calcium	1.00	0.500								U
Chromium	0.0100	0.00500								U
Cobalt	0.0100	0.00500								U
Iron	1.00	0.200								U
Lead	0.0100	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.0100	0.00500								U
Nickel	0.0100	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.0100	0.00500								U
Silver	0.0100	0.00500								U
Sodium	1.00	0.200								U
Thallium	0.0100	0.00200								U
Vanadium	0.0100	0.00500								U
Zinc	0.0100	0.00500								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-212449** Units: **mg/L** Analysis Date: **30-May-2024 12:18**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037768** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1018	0.0100	0.1	0	102	84 - 117				
Antimony	0.0488	0.00500	0.05	0	97.6	85 - 117				
Arsenic	0.04751	0.00500	0.05	0	95.0	84 - 116				
Barium	0.04727	0.00500	0.05	0	94.5	86 - 114				
Beryllium	0.04652	0.00200	0.05	0	93.0	83 - 121				
Cadmium	0.04553	0.00200	0.05	0	91.1	87 - 115				
Calcium	4.892	0.500	5	0	97.8	87 - 118				
Chromium	0.04799	0.00500	0.05	0	96.0	85 - 116				
Cobalt	0.04821	0.00500	0.05	0	96.4	86 - 115				
Iron	4.809	0.200	5	0	96.2	87 - 118				
Lead	0.04724	0.00500	0.05	0	94.5	88 - 115				
Magnesium	4.894	0.200	5	0	97.9	83 - 118				
Manganese	0.04932	0.00500	0.05	0	98.6	87 - 115				
Nickel	0.04837	0.00500	0.05	0	96.7	85 - 117				
Potassium	4.873	0.200	5	0	97.5	87 - 115				
Selenium	0.04742	0.00500	0.05	0	94.8	80 - 120				
Silver	0.04723	0.00500	0.05	0	94.5	85 - 116				
Sodium	4.967	0.200	5	0	99.3	85 - 117				
Vanadium	0.04759	0.00500	0.05	0	95.2	86 - 115				
Zinc	0.05094	0.00500	0.05	0	102	83 - 119				

LCS Sample ID: **LCS-212449** Units: **mg/L** Analysis Date: **30-May-2024 12:32**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037802** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04642	0.00200	0.05	0	92.8	82 - 116				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24051276-01MS** Units: **mg/L** Analysis Date: **30-May-2024 12:03**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037724** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1173	0.0100	0.1	0.006543	111	84 - 117				
Antimony	0.04945	0.00500	0.05	0.000247	98.4	85 - 117				
Arsenic	0.05056	0.00500	0.05	0.000207	101	84 - 116				
Barium	0.2632	0.00500	0.05	0.2174	91.6	86 - 114				O
Beryllium	0.0467	0.00200	0.05	0.000013	93.4	83 - 121				
Cadmium	0.04761	0.00200	0.05	0.000004	95.2	87 - 115				
Calcium	26.76	0.500	5	21.81	99.0	87 - 118				O
Chromium	0.04962	0.00500	0.05	0.000894	97.5	85 - 116				
Cobalt	0.04897	0.00500	0.05	0.000093	97.8	86 - 115				
Iron	4.932	0.200	5	0.08396	97.0	87 - 118				
Lead	0.04892	0.00500	0.05	0.000028	97.8	88 - 115				
Magnesium	15.38	0.200	5	10.49	97.9	83 - 118				
Manganese	0.09686	0.00500	0.05	0.04696	99.8	87 - 115				
Nickel	0.04822	0.00500	0.05	0.000362	95.7	85 - 117				
Potassium	7.026	0.200	5	2.067	99.2	87 - 115				
Selenium	0.04855	0.00500	0.05	0.00007	97.0	80 - 120				
Silver	0.04734	0.00500	0.05	0.000378	93.9	85 - 116				
Sodium	533	0.200	5	527.3	114	85 - 117				EO
Thallium	0.04408	0.00200	0.05	0.000048	88.1	82 - 116				
Vanadium	0.04973	0.00500	0.05	0.000251	99.0	86 - 115				
Zinc	0.05384	0.00500	0.05	0.003855	100.0	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24051276-01MSD** Units: **mg/L** Analysis Date: **30-May-2024 12:05**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037725** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1202	0.0100	0.1	0.006543	114	84 - 117	0.1173	2.49	20	
Antimony	0.05009	0.00500	0.05	0.000247	99.7	85 - 117	0.04945	1.29	20	
Arsenic	0.05088	0.00500	0.05	0.000207	101	84 - 116	0.05056	0.631	20	
Barium	0.2694	0.00500	0.05	0.2174	104	86 - 114	0.2632	2.33	20	O
Beryllium	0.04623	0.00200	0.05	0.000013	92.4	83 - 121	0.0467	1	20	
Cadmium	0.04836	0.00200	0.05	0.000004	96.7	87 - 115	0.04761	1.56	20	
Calcium	27.18	0.500	5	21.81	108	87 - 118	26.76	1.58	20	O
Chromium	0.05057	0.00500	0.05	0.000894	99.4	85 - 116	0.04962	1.9	20	
Cobalt	0.04914	0.00500	0.05	0.000093	98.1	86 - 115	0.04897	0.34	20	
Iron	5.026	0.200	5	0.08396	98.8	87 - 118	4.932	1.89	20	
Lead	0.04989	0.00500	0.05	0.000028	99.7	88 - 115	0.04892	1.97	20	
Magnesium	15.73	0.200	5	10.49	105	83 - 118	15.38	2.21	20	
Manganese	0.09738	0.00500	0.05	0.04696	101	87 - 115	0.09686	0.53	20	
Nickel	0.04875	0.00500	0.05	0.000362	96.8	85 - 117	0.04822	1.08	20	
Potassium	7.147	0.200	5	2.067	102	87 - 115	7.026	1.71	20	
Selenium	0.04901	0.00500	0.05	0.00007	97.9	80 - 120	0.04855	0.941	20	
Silver	0.04748	0.00500	0.05	0.000378	94.2	85 - 116	0.04734	0.3	20	
Sodium	542.9	0.200	5	527.3	313	85 - 117	533	1.85	20	SEO
Thallium	0.04576	0.00200	0.05	0.000048	91.4	82 - 116	0.04408	3.75	20	
Vanadium	0.05076	0.00500	0.05	0.000251	101	86 - 115	0.04973	2.06	20	
Zinc	0.05495	0.00500	0.05	0.003855	102	83 - 119	0.05384	2.05	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24051276-01PDS** Units: **mg/L** Analysis Date: **30-May-2024 12:08**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037726** PrepDate: **23-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1033	0.0100	0.1	0.006543	96.7	80 - 120				
Antimony	0.09918	0.00500	0.1	0.000247	98.9	80 - 120				
Arsenic	0.09744	0.00500	0.1	0.000207	97.2	80 - 120				
Barium	0.3038	0.00500	0.1	0.2174	86.4	80 - 120				
Beryllium	0.08877	0.00200	0.1	0.000013	88.8	80 - 120				
Cadmium	0.09198	0.00200	0.1	0.000004	92.0	80 - 120				
Calcium	31.03	0.500	10	21.81	92.3	80 - 120				
Chromium	0.09618	0.00500	0.1	0.000894	95.3	80 - 120				
Cobalt	0.09491	0.00500	0.1	0.000093	94.8	80 - 120				
Iron	9.687	0.200	10	0.08396	96.0	80 - 120				
Lead	0.09519	0.00500	0.1	0.000028	95.2	80 - 120				
Magnesium	19.97	0.200	10	10.49	94.8	80 - 120				
Manganese	0.1433	0.00500	0.1	0.04696	96.3	80 - 120				
Nickel	0.09252	0.00500	0.1	0.000362	92.2	80 - 120				
Potassium	11.76	0.200	10	2.067	97.0	80 - 120				
Selenium	0.09534	0.00500	0.1	0.00007	95.3	80 - 120				
Silver	0.09147	0.00500	0.1	0.000378	91.1	80 - 120				
Thallium	0.0893	0.00200	0.1	0.000048	89.3	80 - 120				
Vanadium	0.09838	0.00500	0.1	0.000251	98.1	80 - 120				
Zinc	0.09808	0.00500	0.1	0.003855	94.2	80 - 120				

PDS Sample ID: **HS24051276-01PDS** Units: **mg/L** Analysis Date: **30-May-2024 12:40**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037815** PrepDate: **23-May-2024** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1036	10.0	500	531.6	101	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212449 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24051276-01SD** Units: **mg/L** Analysis Date: **30-May-2024 12:00**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037723** PrepDate: **23-May-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.006543	0	10	U
Antimony	0.0500	0.0250					0.000247	0	10	U
Arsenic	0.0500	0.0250					0.000207	0	10	U
Barium	0.2196	0.0250					0.2174	1.05	10	
Beryllium	0.0500	0.0100					0.000013	0	10	U
Cadmium	0.0500	0.0100					0.000004	0	10	U
Calcium	21.18	2.50					21.81	2.88	10	
Chromium	0.0500	0.0250					0.000894	0	10	U
Cobalt	0.0500	0.0250					0.000093	0	10	U
Iron	0.08765	1.00					0.08396	0	10	J
Lead	0.0500	0.0250					0.000028	0	10	U
Magnesium	10.5	1.00					10.49	0.13	10	
Manganese	0.04788	0.0250					0.04696	1.97	10	
Nickel	0.0500	0.0250					0.000362	0	10	U
Potassium	2.027	1.00					2.067	1.94	10	
Selenium	0.0500	0.0250					0.00007	0	10	U
Silver	0.0500	0.0250					0.000378	0	10	U
Thallium	0.0500	0.0100					0.000048	0	10	U
Vanadium	0.0500	0.0250					0.000251	0	10	U
Zinc	0.0500	0.0250					0.003855	0	10	U

SD Sample ID: **HS24051276-01SD** Units: **mg/L** Analysis Date: **30-May-2024 12:37**
Client ID: Run ID: **ICPMS07_468021** SeqNo: **8037814** PrepDate: **23-May-2024** DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	554.8	50.0					531.6	4.38	10	

The following samples were analyzed in this batch: HS24051277-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212789 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-212789** Units: **mg/L** Analysis Date: **30-May-2024 19:49**
Client ID: Run ID: **HG04_468074** SeqNo: **8039301** PrepDate: **30-May-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-212789** Units: **mg/L** Analysis Date: **30-May-2024 19:55**
Client ID: Run ID: **HG04_468074** SeqNo: **8039304** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00448	0.000200	0.005	0	89.6	82 - 119				

MS Sample ID: **HS24051277-01MS** Units: **mg/L** Analysis Date: **30-May-2024 20:08**
Client ID: **LH18/24-SP140_052124** Run ID: **HG04_468074** SeqNo: **8039308** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.000200	0.005	0.00002300	96.1	82 - 119				

MSD Sample ID: **HS24051277-01MSD** Units: **mg/L** Analysis Date: **30-May-2024 20:09**
Client ID: **LH18/24-SP140_052124** Run ID: **HG04_468074** SeqNo: **8039309** PrepDate: **30-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00473	0.000200	0.005	0.00002300	94.1	82 - 119	0.004830	2.09	20	

The following samples were analyzed in this batch: HS24051277-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: 212606 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:23**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041735** PrepDate: **28-May-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	*0.06088*	*0*	*0.08*	*0*	*76.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07382*	*0*	*0.08*	*0*	*92.3*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06095*	*0*	*0.08*	*0*	*76.2*	*40 - 140*				

LCS Sample ID: **LCS-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:41**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041736** PrepDate: **28-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0702	0.030	0.08	0	87.8	40 - 140				
Surr: 2-Fluorobiphenyl	*0.06549*	*0*	*0.08*	*0*	*81.9*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0699*	*0*	*0.08*	*0*	*87.4*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0742*	*0*	*0.08*	*0*	*92.7*	*40 - 140*				

LCSD Sample ID: **LCSD-212606** Units: **ug/L** Analysis Date: **31-May-2024 15:58**
Client ID: Run ID: **SV-6_468217** SeqNo: **8041737** PrepDate: **28-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07174	0.030	0.08	0	89.7	40 - 140	0.0702	2.18	20	
Surr: 2-Fluorobiphenyl	*0.06576*	*0*	*0.08*	*0*	*82.2*	*40 - 140*	*0.06549*	*0.404*	*20*	
Surr: 4-Terphenyl-d14	*0.06773*	*0*	*0.08*	*0*	*84.7*	*40 - 140*	*0.0699*	*3.16*	*20*	
Surr: Nitrobenzene-d5	*0.06787*	*0*	*0.08*	*0*	*84.8*	*40 - 140*	*0.0742*	*8.9*	*20*	

The following samples were analyzed in this batch: HS24051277-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240524** Units: **ug/L** Analysis Date: **24-May-2024 14:18**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031898** 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	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240524** Units: **ug/L** Analysis Date: **24-May-2024 14:18**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031898** 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	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.86*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.8*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*54.71*	*35*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*55.64*	*35*	*50*	*0*	*111*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:13**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031896** 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	18.24	1.0	20	0	91.2	78 - 124				
1,1,1-Trichloroethane	18.26	1.0	20	0	91.3	74 - 131				
1,1,2,2-Tetrachloroethane	20.93	1.0	20	0	105	71 - 121				
1,1,2-Trichloroethane	20.59	1.0	20	0	103	80 - 119				
1,1-Dichloroethane	19.25	1.0	20	0	96.3	77 - 125				
1,1-Dichloroethene	17.06	1.0	20	0	85.3	71 - 131				
1,1-Dichloropropene	17.97	1.0	20	0	89.9	78 - 125				
1,2,3-Trichlorobenzene	18.86	1.0	20	0	94.3	69 - 129				
1,2,3-Trichloropropane	20.48	1.0	20	0	102	73 - 122				
1,2,4-Trichlorobenzene	18.54	1.0	20	0	92.7	69 - 130				
1,2,4-Trimethylbenzene	19.5	1.0	20	0	97.5	76 - 124				
1,2-Dibromo-3-chloropropane	19.27	1.0	20	0	96.4	62 - 128				
1,2-Dibromoethane	19.85	1.0	20	0	99.3	77 - 121				
1,2-Dichlorobenzene	20.78	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	19.33	1.0	20	0	96.7	73 - 128				
1,2-Dichloropropane	19.45	1.0	20	0	97.2	78 - 122				
1,3,5-Trimethylbenzene	19.89	1.0	20	0	99.4	75 - 124				
1,3-Dichlorobenzene	20.55	1.0	20	0	103	80 - 119				
1,3-Dichloropropane	20.14	1.0	20	0	101	80 - 119				
1,4-Dichlorobenzene	20.53	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	17.91	1.0	20	0	89.5	60 - 139				
2-Butanone	40.67	2.0	40	0	102	56 - 143				
2-Chlorotoluene	18.97	1.0	20	0	94.8	79 - 122				
2-Hexanone	37.86	2.0	40	0	94.6	57 - 139				
4-Chlorotoluene	19.24	1.0	20	0	96.2	78 - 122				
4-Isopropyltoluene	19.72	1.0	20	0	98.6	77 - 127				
4-Methyl-2-pentanone	38.08	2.0	40	0	95.2	67 - 130				
Acetone	45.14	2.0	40	0	113	39 - 160				
Benzene	19.18	1.0	20	0	95.9	79 - 120				
Bromobenzene	18.58	1.0	20	0	92.9	80 - 120				
Bromochloromethane	19.51	1.0	20	0	97.6	78 - 123				
Bromodichloromethane	17.55	1.0	20	0	87.8	79 - 125				
Bromoform	17.37	1.0	20	0	86.8	66 - 130				
Bromomethane	21.94	1.0	20	0	110	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:13**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031896** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	34.68	2.0	40	0	86.7	64 - 133				
Carbon tetrachloride	17.43	1.0	20	0	87.1	72 - 136				
Chlorobenzene	20.02	1.0	20	0	100	82 - 118				
Chloroethane	17.44	1.0	20	0	87.2	60 - 138				
Chloroform	19.25	1.0	20	0	96.2	79 - 124				
Chloromethane	18.47	1.0	20	0	92.3	50 - 139				
cis-1,2-Dichloroethene	17.33	1.0	20	0	86.6	78 - 123				
cis-1,3-Dichloropropene	18.37	1.0	20	0	91.9	75 - 124				
Dibromochloromethane	18.63	1.0	20	0	93.2	74 - 126				
Dibromomethane	18.29	1.0	20	0	91.4	79 - 123				
Dichlorodifluoromethane	18.7	1.0	20	0	93.5	32 - 152				
Ethylbenzene	18.15	1.0	20	0	90.8	79 - 121				
Hexachlorobutadiene	19.92	1.0	20	0	99.6	66 - 134				
Isopropylbenzene	19.01	1.0	20	0	95.0	72 - 131				
m,p-Xylene	37.73	2.0	40	0	94.3	80 - 121				
Methylene chloride	19.69	2.0	20	0	98.4	74 - 124				
Naphthalene	20.99	1.0	20	0	105	61 - 128				
n-Butylbenzene	19.16	1.0	20	0	95.8	75 - 128				
n-Propylbenzene	20.02	1.0	20	0	100	76 - 126				
o-Xylene	18.93	1.0	20	0	94.7	78 - 122				
sec-Butylbenzene	19.59	1.0	20	0	98.0	77 - 126				
Styrene	19.07	1.0	20	0	95.4	78 - 123				
tert-Butylbenzene	19.71	1.0	20	0	98.5	78 - 124				
Tetrachloroethene	18.98	1.0	20	0	94.9	74 - 129				
Toluene	18.46	1.0	20	0	92.3	80 - 121				
trans-1,2-Dichloroethene	17.31	1.0	20	0	86.6	75 - 124				
trans-1,3-Dichloropropene	18.07	1.0	20	0	90.3	73 - 127				
Trichloroethene	18.06	1.0	20	0	90.3	79 - 123				
Trichlorofluoromethane	18.07	1.0	20	0	90.4	65 - 141				
Vinyl chloride	17.63	1.0	20	0	88.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.24*	*35*	*50*	*0*	*110*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.96*	*35*	*50*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*55.22*	*35*	*50*	*0*	*110*	*80 - 119*				
Surr: Toluene-d8	*55.42*	*35*	*50*	*0*	*111*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:35**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031897** 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	17.04	1.0	20	0	85.2	78 - 124	18.24	6.78	20	
1,1,1-Trichloroethane	17.69	1.0	20	0	88.4	74 - 131	18.26	3.15	20	
1,1,2,2-Tetrachloroethane	20	1.0	20	0	100.0	71 - 121	20.93	4.59	20	
1,1,2-Trichloroethane	18.81	1.0	20	0	94.0	80 - 119	20.59	9.06	20	
1,1-Dichloroethane	18.77	1.0	20	0	93.9	77 - 125	19.25	2.52	20	
1,1-Dichloroethene	16.77	1.0	20	0	83.8	71 - 131	17.06	1.74	20	
1,1-Dichloropropene	16.98	1.0	20	0	84.9	78 - 125	17.97	5.7	20	
1,2,3-Trichlorobenzene	17.33	1.0	20	0	86.7	69 - 129	18.86	8.43	20	
1,2,3-Trichloropropane	19.34	1.0	20	0	96.7	73 - 122	20.48	5.71	20	
1,2,4-Trichlorobenzene	16.92	1.0	20	0	84.6	69 - 130	18.54	9.09	20	
1,2,4-Trimethylbenzene	17.88	1.0	20	0	89.4	76 - 124	19.5	8.71	20	
1,2-Dibromo-3-chloropropane	18.13	1.0	20	0	90.7	62 - 128	19.27	6.08	20	
1,2-Dibromoethane	18.53	1.0	20	0	92.7	77 - 121	19.85	6.88	20	
1,2-Dichlorobenzene	19.41	1.0	20	0	97.1	80 - 119	20.78	6.83	20	
1,2-Dichloroethane	19.25	1.0	20	0	96.2	73 - 128	19.33	0.446	20	
1,2-Dichloropropane	18.52	1.0	20	0	92.6	78 - 122	19.45	4.89	20	
1,3,5-Trimethylbenzene	18.2	1.0	20	0	91.0	75 - 124	19.89	8.83	20	
1,3-Dichlorobenzene	18.83	1.0	20	0	94.2	80 - 119	20.55	8.74	20	
1,3-Dichloropropane	19.55	1.0	20	0	97.8	80 - 119	20.14	2.98	20	
1,4-Dichlorobenzene	19.13	1.0	20	0	95.6	79 - 118	20.53	7.09	20	
2,2-Dichloropropane	17.35	1.0	20	0	86.7	60 - 139	17.91	3.19	20	
2-Butanone	40.85	2.0	40	0	102	56 - 143	40.67	0.447	20	
2-Chlorotoluene	17.34	1.0	20	0	86.7	79 - 122	18.97	8.98	20	
2-Hexanone	36.32	2.0	40	0	90.8	57 - 139	37.86	4.15	20	
4-Chlorotoluene	17.7	1.0	20	0	88.5	78 - 122	19.24	8.35	20	
4-Isopropyltoluene	18.05	1.0	20	0	90.3	77 - 127	19.72	8.83	20	
4-Methyl-2-pentanone	36.88	2.0	40	0	92.2	67 - 130	38.08	3.21	20	
Acetone	45.27	2.0	40	0	113	39 - 160	45.14	0.282	20	
Benzene	18.45	1.0	20	0	92.3	79 - 120	19.18	3.86	20	
Bromobenzene	17.54	1.0	20	0	87.7	80 - 120	18.58	5.76	20	
Bromochloromethane	19.05	1.0	20	0	95.2	78 - 123	19.51	2.41	20	
Bromodichloromethane	16.9	1.0	20	0	84.5	79 - 125	17.55	3.79	20	
Bromoform	16.63	1.0	20	0	83.2	66 - 130	17.37	4.32	20	
Bromomethane	21.45	1.0	20	0	107	53 - 141	21.94	2.24	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:35**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031897** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	33.18	2.0	40	0	83.0	64 - 133	34.68	4.4	20	
Carbon tetrachloride	16.65	1.0	20	0	83.2	72 - 136	17.43	4.58	20	
Chlorobenzene	18.99	1.0	20	0	95.0	82 - 118	20.02	5.25	20	
Chloroethane	16.94	1.0	20	0	84.7	60 - 138	17.44	2.92	20	
Chloroform	18.87	1.0	20	0	94.3	79 - 124	19.25	2	20	
Chloromethane	17.9	1.0	20	0	89.5	50 - 139	18.47	3.14	20	
cis-1,2-Dichloroethene	16.98	1.0	20	0	84.9	78 - 123	17.33	2.02	20	
cis-1,3-Dichloropropene	17.89	1.0	20	0	89.4	75 - 124	18.37	2.67	20	
Dibromochloromethane	17.52	1.0	20	0	87.6	74 - 126	18.63	6.14	20	
Dibromomethane	17.64	1.0	20	0	88.2	79 - 123	18.29	3.62	20	
Dichlorodifluoromethane	17.8	1.0	20	0	89.0	32 - 152	18.7	4.92	20	
Ethylbenzene	17.25	1.0	20	0	86.3	79 - 121	18.15	5.08	20	
Hexachlorobutadiene	17.63	1.0	20	0	88.2	66 - 134	19.92	12.2	20	
Isopropylbenzene	17.92	1.0	20	0	89.6	72 - 131	19.01	5.89	20	
m,p-Xylene	36.11	2.0	40	0	90.3	80 - 121	37.73	4.38	20	
Methylene chloride	19.23	2.0	20	0	96.2	74 - 124	19.69	2.33	20	
Naphthalene	18.92	1.0	20	0	94.6	61 - 128	20.99	10.3	20	
n-Butylbenzene	17.77	1.0	20	0	88.8	75 - 128	19.16	7.54	20	
n-Propylbenzene	18.26	1.0	20	0	91.3	76 - 126	20.02	9.21	20	
o-Xylene	17.96	1.0	20	0	89.8	78 - 122	18.93	5.3	20	
sec-Butylbenzene	17.93	1.0	20	0	89.6	77 - 126	19.59	8.86	20	
Styrene	18.21	1.0	20	0	91.1	78 - 123	19.07	4.61	20	
tert-Butylbenzene	17.83	1.0	20	0	89.2	78 - 124	19.71	9.99	20	
Tetrachloroethene	17.84	1.0	20	0	89.2	74 - 129	18.98	6.23	20	
Toluene	17.54	1.0	20	0	87.7	80 - 121	18.46	5.12	20	
trans-1,2-Dichloroethene	16.63	1.0	20	0	83.1	75 - 124	17.31	4.03	20	
trans-1,3-Dichloropropene	17.46	1.0	20	0	87.3	73 - 127	18.07	3.42	20	
Trichloroethene	17.15	1.0	20	0	85.7	79 - 123	18.06	5.17	20	
Trichlorofluoromethane	17.7	1.0	20	0	88.5	65 - 141	18.07	2.1	20	
Vinyl chloride	17.4	1.0	20	0	87.0	58 - 137	17.63	1.3	20	
Surr: 1,2-Dichloroethane-d4	*56.48*	*35*	*50*	*0*	*113*	*81 - 118*	*55.24*	*2.22*	*20*	
Surr: 4-Bromofluorobenzene	*56.91*	*35*	*50*	*0*	*114*	*85 - 114*	*56.96*	*0.0971*	*20*	
Surr: Dibromofluoromethane	*56.62*	*35*	*50*	*0*	*113*	*80 - 119*	*55.22*	*2.49*	*20*	
Surr: Toluene-d8	*55.89*	*35*	*50*	*0*	*112*	*89 - 112*	*55.42*	*0.846*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder:	HS24051277

QC BATCH REPORT

Batch ID:	**R467761 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24051277-01 HS24051277-02

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467493 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025830** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **LCS-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025828** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.9	2.00	40	0	112	78 - 114				

LCSD Sample ID: **LCSD-05232024** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.8	2.00	40	0	110	78 - 114	44.9	2.48	18	

MS Sample ID: **HS24051024-01MS** Units: **mg/L** Analysis Date: **23-May-2024 07:00**
Client ID: Run ID: **Balance1_467493** SeqNo: **8025808** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	40.2	2.00	40	1.778	96.1	78 - 114				

The following samples were analyzed in this batch: HS24051277-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467960 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036265** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	15.0	15.0								U

LCS Sample ID: **LCS-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036264** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	101	15.0	100	0	101	85 - 115				

LCSD Sample ID: **LCSD-R467960** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	100	15.0	100	0	100	85 - 115	101	0.995	20	

MS Sample ID: **HS24050884-01MS** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036267** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	55	15.0	50	6	98.0	80 - 120				

MSD Sample ID: **HS24050884-01MSD** Units: **mg/L** Analysis Date: **29-May-2024 16:30**
Client ID: Run ID: **WetChem_HS_467960** SeqNo: **8036266** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	57	15.0	50	6	102	80 - 120	55	3.57	20	

The following samples were analyzed in this batch: HS24051277-01

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

QC BATCH REPORT

Batch ID: R467970 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **29-May-2024 10:30**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036361** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **29-May-2024 10:36**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036362** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.99	0.500	20	0	105	80 - 120				
Sulfate	21.91	0.500	20	0	110	80 - 120				

MS Sample ID: **HS24050839-01MS** Units: **mg/L** Analysis Date: **29-May-2024 11:22**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036370** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	27.9	0.500	10	18.48	94.2	80 - 120				
Sulfate	23.13	0.500	10	14.12	90.1	80 - 120				

MSD Sample ID: **HS24050839-01MSD** Units: **mg/L** Analysis Date: **29-May-2024 11:28**
Client ID: Run ID: **ICS-Integrion_467970** SeqNo: **8036371** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	27.73	0.500	10	18.48	92.5	80 - 120	27.9	0.615	20	
Sulfate	23.25	0.500	10	14.12	91.3	80 - 120	23.13	0.505	20	

The following samples were analyzed in this batch: HS24051277-01

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ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: **HS24051277**

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
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-2024
Maryland	343; 2023-2024	30-Jun-2024
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: 07-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051277 **Date/Time Received:** 22-May-2024 10:15

Client Name: Bhate Environmental **Received by:** Jacob Coronado

Completed By: /S/ Bernadette A. Fini (eSignature) 22-May-2024 13:09 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **Water** 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:none
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):	2.5/2.6 uc/c	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	5-22-24 13:30	

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:

June 05, 2024 Service Request No:E2400568

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051277

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400568.**

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

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www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400568
Project:	HS24051277	**Date Received:**	05/22/24
Sample Matrix:	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

One sample was received for analysis at ALS Environmental in Houston on 05/22/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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.

Client: ALS Environmental - US **Service Request:**E2400568
Project: HS24051277

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400568-001	LH18/24-SP140_052124	5/21/2024	1300

Service Request Summary

Folder #: **E2400568**
Client Name: ALS Environmental - US
Project Name: HS24051277
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: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS APTIM
LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400568-001	LH18/24-SP140_052124	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #: **E2400568**
Client Name: ALS Environmental - US
Project Name: HS24051277
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: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS APTIM
LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
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

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E2400568 5

ALS Group USA, Corp.
HS24051277

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Houston, TX 77099
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25756**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051277
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051277-01**	**LH18/24-SP140_052124**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdfInclude EDDS - [9/14 3:39 PM] Hussam Kelany EQUIS APTIM LONGHORN EFWEDD BASICWQC_CASNo			30 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/22 24 1015

Cooler ID(s): _____ Temperature(s): _____

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5

E2400568
ALS Group USA, Corp.
HS24051277

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Houston, TX 77099
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Sample Receipt Checklist

Work Order ID: HS24051277 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 13:09 Bernadette A. Fini **Reviewed/By:** _____
Date/Time eSignature Date/Time eSignature

Matrices: Water **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): none	
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): 2.5/2.6 uc/c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 5-22-24 13:30

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: _____

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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
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www.alsglobal.com

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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	SOWW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	SOWW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	SOWW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	SOWW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	SOWW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	SOWW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	SOWW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	SOWW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	SOWW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
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
www.alsglobal.com

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP140_052124	**Units:**	µg/L
Lab Code:	E2400568-001	**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	**21000**		1000	500	250	10000	5/30/24	5/31/24 17:10	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**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	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277
Sample Matrix: Water

Service Request: E2400568
Date Analyzed: 5/31/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**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	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**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	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

HS24051277 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24051277

ALS Houston, US Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:HG04_468074
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	30-May-2024 15:53	HG04_468074 Raw Data_8038509	HG
ICB	1	30-May-2024 15:55	_8038510	HG
CRA	1	30-May-2024 16:01	_8038511	HG
CCV 1	1	30-May-2024 16:04	_8039193	HG
CCB 1	1	30-May-2024 16:05	_8039194	HG
CCV 2	1	30-May-2024 16:34	_8039205	HG
CCB 2	1	30-May-2024 16:36	_8039206	HG
CCV 3	1	30-May-2024 16:57	_8039217	HG
CCB 3	1	30-May-2024 16:59	_8039218	HG
CCV 4	1	30-May-2024 17:20	_8039229	HG
CCB 4	1	30-May-2024 17:21	_8039230	HG
CCV 5	1	30-May-2024 17:44	_8039241	HG
CCB 5	1	30-May-2024 17:48	_8039242	HG
CCV 6	1	30-May-2024 18:11	_8039252	HG
CCB 6	1	30-May-2024 18:13	_8039253	HG
CCV 7	1	30-May-2024 18:44	_8039264	HG
CCB 7	1	30-May-2024 18:46	_8039265	HG
CCV 8	1	30-May-2024 19:07	_8039278	HG
CCB 8	1	30-May-2024 19:09	_8039279	HG
CCV 9	1	30-May-2024 19:30	_8039290	HG
CCB 9	1	30-May-2024 19:31	_8039291	HG
MBLK-212789	1	30-May-2024 19:49	_8039301	HG
CCV 10	1	30-May-2024 19:52	_8039302	HG
CCB 10	1	30-May-2024 19:54	_8039303	HG
LCS-212789	1	30-May-2024 19:55	_8039304	HG
LH18/24-SP140_052124	1	30-May-2024 20:01	_8039307	HG
LH18/24-SP140_052124MS	1	30-May-2024 20:08	_8039308	HG
LH18/24-SP140_052124MSD	1	30-May-2024 20:09	_8039309	HG
CCV 11	1	30-May-2024 20:21	_8039314	HG
CCB 11	1	30-May-2024 20:22	_8039315	HG
CCV 12	1	30-May-2024 20:44	_8039326	HG
CCB 12	1	30-May-2024 20:45	_8039327	HG
CCV 13	1	30-May-2024 21:09	_8039337	HG
CCB 13	1	30-May-2024 21:11	_8039338	HG
CCV 14	1	30-May-2024 21:35	_8039350	HG
CCB 14	1	30-May-2024 21:37	_8039351	HG
CCV 15	1	30-May-2024 21:51	_8039356	HG
CCB 15	1	30-May-2024 21:53	_8039357	HG

ALS Houston, US Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277
Start Date: 29-May-2024 End Date: 29-May-2024

Run ID:ICPMS07_467901
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_467901_Tune	1	29-May-2024 00:00	ICPMS07_467901_Tune_1	
CAL BLK	1	29-May-2024 10:29	010CALB.d_8035078	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-May-2024 10:31	011CALS.d_8035079	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-May-2024 10:34	012CALS.d_8035080	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-May-2024 10:37	013CALS.d_8035081	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-May-2024 10:39	014CALS.d_8035082	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-May-2024 10:42	015CALS.d_8035083	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-May-2024 10:56	017_ICV.d_8035085	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	29-May-2024 11:01	019LCV2.d_8035087	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	29-May-2024 11:03	020LCV5.d_8035088	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	29-May-2024 11:08	022_ICB.d_8035090	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	29-May-2024 11:13	024ICSA.d_8035092	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	29-May-2024 11:15	025ICSB.d_8035093	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	29-May-2024 14:58	098CALB.d_8035932	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-May-2024 15:00	099CALS.d_8035933	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-May-2024 15:03	100CALS.d_8035934	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-May-2024 15:05	101CALS.d_8035935	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-May-2024 15:08	102CALS.d_8035936	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-May-2024 15:10	103CALS.d_8035937	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-May-2024 15:16	105_ICV.d_8035939	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	29-May-2024 15:21	107LCV2.d_8035941	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	29-May-2024 15:23	108LCV5.d_8035942	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	29-May-2024 15:25	109_ICB.d_8035943	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	29-May-2024 15:38	111_CCV.d_8036158	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	29-May-2024 15:40	112_CCB.d_8036159	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
MBLK-212449	1	29-May-2024 15:45	113SMPL.d_8036160	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP140_052124	1	29-May-2024 16:03	120SMPL.d_8036167	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
CCV 2	1	29-May-2024 16:11	123_CCV.d_8036170	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	29-May-2024 16:14	124_CCB.d_8036171	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_468021_Tune	1	30-May-2024 00:00	ICPMS07_468021_Tune_1	
CAL BLK	1	30-May-2024 10:54	010CALB.d_8037496	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	30-May-2024 10:57	011CALS.d_8037497	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	30-May-2024 10:59	012CALS.d_8037498	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-May-2024 11:02	013CALS.d_8037499	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	30-May-2024 11:05	014CALS.d_8037500	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	30-May-2024 11:07	015CALS.d_8037501	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	30-May-2024 11:17	019LCV2.d_8037505	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	30-May-2024 11:20	020LCV5.d_8037506	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	30-May-2024 11:24	022_ICB.d_8037508	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	30-May-2024 11:27	023_ICV.d_8037509	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	30-May-2024 11:33	025ICSA.d_8037568	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	30-May-2024 11:36	026ICSB.d_8037569	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	30-May-2024 11:50	031_CCV.d_8037719	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	30-May-2024 11:53	032_CCB.d_8037720	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	5	30-May-2024 12:00	035SMPL.d_8037723	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
ZZZZZZMS	1	30-May-2024 12:03	036SMPL.d_8037724	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	30-May-2024 12:05	037SMPL.d_8037725	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	30-May-2024 12:08	038SMPL.d_8037726	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LCS-212449	1	30-May-2024 12:18	041SMPL.d_8037768	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE V ZN
CCV 2	1	30-May-2024 12:28	043_CCV.d_8037800	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	30-May-2024 12:30	044_CCB.d_8037801	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-212449	1	30-May-2024 12:32	045SMPL.d_8037802	TL
ZZZZZZSD	250	30-May-2024 12:37	047SMPL.d_8037814	NA
ZZZZZZPDS	50	30-May-2024 12:40	048SMPL.d_8037815	NA
LH18/24-SP140_052124	20	30-May-2024 12:42	049SMPL.d_8037885	NA
CCV 3	1	30-May-2024 12:50	051_CCV.d_8037887	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	30-May-2024 12:52	052_CCB.d_8037888	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	30-May-2024 23:42	273_CCV.d_8039702	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	30-May-2024 23:44	274_CCB.d_8039703	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	30-May-2024 23:49	276LCV2.d_8039705	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	30-May-2024 23:51	277LCV5.d_8039706	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	30-May-2024 23:54	278ICSA.d_8039707	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 20-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277
Start Date: 30-May-2024 End Date: 30-May-2024

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICSAB	1	30-May-2024 23:56	279ICSB.d_8039708	AG AL AS BA BE CA CD CO CR 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_468074
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument: HG04
WorkOrder: HS24051277 Method: SW7470A

ICV	Date: 30-May-2024 15:53		Seq: 8038509	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.26	105	90-110	

CCV1	Date: 30-May-2024 16:04		Seq: 8039193	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV2	Date: 30-May-2024 16:34		Seq: 8039205	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV3	Date: 30-May-2024 16:57		Seq: 8039217	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.83	97	90-110	

CCV4	Date: 30-May-2024 17:20		Seq: 8039229	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.8	96	90-110	

CCV5	Date: 30-May-2024 17:44		Seq: 8039241	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.72	94	90-110	

CCV6	Date: 30-May-2024 18:11		Seq: 8039252	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV7	Date: 30-May-2024 18:44		Seq: 8039264	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV8	Date: 30-May-2024 19:07		Seq: 8039278	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

CCV9	Date: 30-May-2024 19:30		Seq: 8039290	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV10	Date: 30-May-2024 19:52		Seq: 8039302	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV11	Date: 30-May-2024 20:21		Seq: 8039314	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.78	96	90-110	

CCV12	Date: 30-May-2024 20:44		Seq: 8039326	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.75	95	90-110	

CCV13	Date: 30-May-2024 21:09		Seq: 8039337	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.76	95	90-110	

ALS Houston, US Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: HG04_468074

Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument: HG04

WorkOrder: HS24051277 Method: SW7470A

CCV14	Date: 30-May-2024 21:35		Seq: 8039350	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.69	94	90-110	

CCV15	Date: 30-May-2024 21:51		Seq: 8039356	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.72	94	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_467901
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument: ICPMS07
WorkOrder: HS24051277 Method: SW6020A

ICV	Date: 29-May-2024 10:56		Seq: 8035085	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	103.625	104	90-110	
Antimony	100	101.204	101	90-110	
Arsenic	100	102.324	102	90-110	
Barium	100	101.543	102	90-110	
Beryllium	100	107.743	108	90-110	
Cadmium	100	101.463	101	90-110	
Calcium	10000	9948.603	100	90-110	
Chromium	100	102.864	103	90-110	
Cobalt	100	103.28	103	90-110	
Iron	10000	9926.072	99	90-110	
Lead	100	101.812	102	90-110	
Magnesium	10000	9989.209	100	90-110	
Manganese	100	103.367	103	90-110	
Nickel	100	103.03	103	90-110	
Potassium	10000	10015.284	100	90-110	
Selenium	100	102.65	103	90-110	
Silver	100	100.902	101	90-110	
Sodium	10000	9896.571	99	90-110	
Thallium	100	102.136	102	90-110	
Vanadium	100	102.244	102	90-110	
Zinc	100	102.415	102	90-110	

ICV	Date: 29-May-2024 15:16		Seq: 8035939	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	105.689	106	90-110	
Antimony	100	103.052	103	90-110	
Arsenic	100	104.457	104	90-110	
Barium	100	103.747	104	90-110	
Beryllium	100	105.26	105	90-110	
Cadmium	100	102.978	103	90-110	
Calcium	10000	10030.887	100	90-110	
Chromium	100	104.839	105	90-110	
Cobalt	100	104.906	105	90-110	
Iron	10000	10066.25	101	90-110	
Lead	100	104.162	104	90-110	
Magnesium	10000	10106.019	101	90-110	
Manganese	100	104.796	105	90-110	
Nickel	100	104.368	104	90-110	
Potassium	10000	10186.511	102	90-110	
Selenium	100	104.59	105	90-110	
Silver	100	103.027	103	90-110	
Sodium	10000	10060.637	101	90-110	
Thallium	100	106.777	107	90-110	
Vanadium	100	104.734	105	90-110	
Zinc	100	103.728	104	90-110	

CCV1	Date: 29-May-2024 15:38		Seq: 8036158	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	102.462	102	90-110	
Antimony	100	102.567	103	90-110	
Arsenic	100	104.346	104	90-110	
Barium	100	104.388	104	90-110	
Beryllium	100	103.621	104	90-110	
Cadmium	100	103.495	103	90-110	
Calcium	10000	10275.749	103	90-110	

ALS Houston, US

Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

CCV1 Date: 29-May-2024 15:38 Seq: 8036158 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Chromium	100	104.806	105	90-110	
Cobalt	100	104.84	105	90-110	
Iron	10000	10246.892	102	90-110	
Lead	100	103.696	104	90-110	
Magnesium	10000	10260.819	103	90-110	
Manganese	100	104.753	105	90-110	
Nickel	100	105.164	105	90-110	
Potassium	10000	10407.078	104	90-110	
Selenium	100	106.644	107	90-110	
Silver	100	104.363	104	90-110	
Sodium	10000	10145.847	101	90-110	
Thallium	100	99.208	99	90-110	
Vanadium	100	104.775	105	90-110	
Zinc	100	104.831	105	90-110	

CCV2 Date: 29-May-2024 16:11 Seq: 8036170 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.84	100	90-110	
Antimony	100	101.089	101	90-110	
Arsenic	100	101.364	101	90-110	
Barium	100	101.71	102	90-110	
Beryllium	100	100.626	101	90-110	
Cadmium	100	100.892	101	90-110	
Calcium	10000	9996.045	100	90-110	
Chromium	100	101.399	101	90-110	
Cobalt	100	101.691	102	90-110	
Iron	10000	10015.968	100	90-110	
Lead	100	102.049	102	90-110	
Magnesium	10000	10106.841	101	90-110	
Manganese	100	103.272	103	90-110	
Nickel	100	100.986	101	90-110	
Potassium	10000	10241.259	102	90-110	
Selenium	100	104.081	104	90-110	
Silver	100	101.467	101	90-110	
Sodium	10000	10068.929	101	90-110	
Thallium	100	96.782	97	90-110	
Vanadium	100	101.692	102	90-110	
Zinc	100	101.968	102	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_468021
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument: ICPMS07
WorkOrder: HS24051277 Method: SW6020A

ICV	Date: 30-May-2024 11:27		Seq: 8037509	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	103.112	103	90-110	
Antimony	100	99.887	100	90-110	
Arsenic	100	101.428	101	90-110	
Barium	100	100.38	100	90-110	
Beryllium	100	103.229	103	90-110	
Cadmium	100	100.256	100	90-110	
Calcium	10000	10240.364	102	90-110	
Chromium	100	102.14	102	90-110	
Cobalt	100	102.566	103	90-110	
Iron	10000	10205.548	102	90-110	
Lead	100	100.567	101	90-110	
Magnesium	10000	10301.883	103	90-110	
Manganese	100	102.345	102	90-110	
Nickel	100	102.672	103	90-110	
Potassium	10000	10228.95	102	90-110	
Selenium	100	101.983	102	90-110	
Silver	100	101.855	102	90-110	
Sodium	10000	10265.657	103	90-110	
Thallium	100	100.746	101	90-110	
Vanadium	100	101.031	101	90-110	
Zinc	100	102.408	102	90-110	

CCV1	Date: 30-May-2024 11:50		Seq: 8037719	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	100.492	100	90-110	
Antimony	100	100.162	100	90-110	
Arsenic	100	100.683	101	90-110	
Barium	100	102.093	102	90-110	
Beryllium	100	97.453	98	90-110	
Cadmium	100	99.435	99	90-110	
Calcium	10000	10125.952	101	90-110	
Chromium	100	100.786	101	90-110	
Cobalt	100	101.181	101	90-110	
Iron	10000	10057.408	101	90-110	
Lead	100	100.075	100	90-110	
Magnesium	10000	10217.894	102	90-110	
Manganese	100	100.727	101	90-110	
Nickel	100	100.522	101	90-110	
Potassium	10000	10186.26	102	90-110	
Selenium	100	99.333	99	90-110	
Silver	100	103.862	104	90-110	
Sodium	10000	10230.838	102	90-110	
Thallium	100	99.181	99	90-110	
Vanadium	100	100.983	101	90-110	
Zinc	100	100.922	101	90-110	

CCV2	Date: 30-May-2024 12:28		Seq: 8037800	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.859	102	90-110	
Antimony	100	97.872	98	90-110	
Arsenic	100	99.758	100	90-110	
Barium	100	100.639	101	90-110	
Beryllium	100	100.01	100	90-110	
Cadmium	100	98.325	98	90-110	
Calcium	10000	9908.11	99	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_468021
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument: ICPMS07
WorkOrder: HS24051277 Method: SW6020A

CCV2	Date: 30-May-2024 12:28		Seq: 8037800	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Chromium	100	99.915	100	90-110	
Cobalt	100	99.841	100	90-110	
Iron	10000	9944.241	99	90-110	
Lead	100	100.144	100	90-110	
Magnesium	10000	10108.781	101	90-110	
Manganese	100	99.389	99	90-110	
Nickel	100	100.172	100	90-110	
Potassium	10000	10032.061	100	90-110	
Selenium	100	98.083	98	90-110	
Silver	100	101.505	102	90-110	
Sodium	10000	10164.628	102	90-110	
Thallium	100	100.859	101	90-110	
Vanadium	100	99.594	100	90-110	
Zinc	100	98.668	99	90-110	

CCV3	Date: 30-May-2024 12:50		Seq: 8037887	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.045	101	90-110	
Antimony	100	97.855	98	90-110	
Arsenic	100	99.922	100	90-110	
Barium	100	100.78	101	90-110	
Beryllium	100	101.672	102	90-110	
Cadmium	100	99.332	99	90-110	
Calcium	10000	9933.2	99	90-110	
Chromium	100	100.048	100	90-110	
Cobalt	100	99.785	100	90-110	
Iron	10000	9964.53	100	90-110	
Lead	100	99.882	100	90-110	
Magnesium	10000	10155.112	102	90-110	
Manganese	100	99.461	100	90-110	
Nickel	100	99.769	100	90-110	
Potassium	10000	10063.16	101	90-110	
Selenium	100	96.621	97	90-110	
Silver	100	100.852	101	90-110	
Sodium	10000	10153.363	102	90-110	
Thallium	100	99.258	99	90-110	
Vanadium	100	99.371	99	90-110	
Zinc	100	99.163	99	90-110	

CCV4	Date: 30-May-2024 23:42		Seq: 8039702	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	97.056	97	90-110	
Antimony	100	98.676	99	90-110	
Arsenic	100	95.016	95	90-110	
Barium	100	95.592	96	90-110	
Beryllium	100	95.85	96	90-110	
Cadmium	100	95.613	96	90-110	
Calcium	10000	9418.874	94	90-110	
Chromium	100	96.638	97	90-110	
Cobalt	100	97.779	98	90-110	
Iron	10000	9671.467	97	90-110	
Lead	100	97.152	97	90-110	
Magnesium	10000	9510.618	95	90-110	
Manganese	100	96.158	96	90-110	
Nickel	100	98.084	98	90-110	

ALS Houston, US Date: 20-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

CCV4 | Date: 30-May-2024 23:42 | Seq: 8039702 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9408.353	94	90-110	
Selenium	100	94.042	94	90-110	
Silver	100	95.947	96	90-110	
Sodium	10000	9562.02	96	90-110	
Thallium	100	94.551	95	90-110	
Vanadium	100	96.414	96	90-110	
Zinc	100	97.154	97	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: HG04_468074
Instrument: HG04
Method: SW7470A

ICB	Date: 30-May-2024 15:55		Seq: 8038510	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 30-May-2024 16:05		Seq: 8039194	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 30-May-2024 16:36		Seq: 8039206	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	-0.03	0.03	0.2	J	

CCB3	Date: 30-May-2024 16:59		Seq: 8039218	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 30-May-2024 17:21		Seq: 8039230	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 30-May-2024 17:48		Seq: 8039242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 30-May-2024 18:13		Seq: 8039253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 30-May-2024 18:46		Seq: 8039265	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 30-May-2024 19:09		Seq: 8039279	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 30-May-2024 19:31		Seq: 8039291	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-212789	Date: 30-May-2024 19:49		Seq: 8039301	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB10	Date: 30-May-2024 19:54		Seq: 8039303	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB11	Date: 30-May-2024 20:22		Seq: 8039315	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB12	Date: 30-May-2024 20:45		Seq: 8039327	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB13	Date: 30-May-2024 21:11		Seq: 8039338	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US

Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: HG04_468074
Instrument: HG04
Method: SW7470A

CCB14	Date: 30-May-2024 21:37		Seq: 8039351	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB15	Date: 30-May-2024 21:53		Seq: 8039357	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 29-May-2024 11:08		Seq: 8035090	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	5	0.4	5	U	
Cobalt	5	0.1	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	

ICCB1	Date: 29-May-2024 15:25		Seq: 8035943	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-3.124	1.8	10	J	
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	
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	-19.53	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 29-May-2024 15:40		Seq: 8036159	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-4.658	1.8	10	J	
Antimony	2	0.4	2	U	
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	

ALS Houston, US Date: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 29-May-2024 15:40		Seq: 8036159	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	-20.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-212449	Date: 29-May-2024 15:45		Seq: 8036160	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	
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	

CCB3	Date: 29-May-2024 16:14		Seq: 8036171	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-4.99	1.8	10	J	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_467901
Instrument: ICPMS07
Method: SW6020A

CCB3 Date: 29-May-2024 16:14 Seq: 8036171 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	29.92	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 30-May-2024 11:24		Seq: 8037508	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	5	0.4	5	U	
Cobalt	5	0.1	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: 30-May-2024 11:53		Seq: 8037720	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.54	0.2	2	J	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 30-May-2024 12:30		Seq: 8037801	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 30-May-2024 12:30		Seq: 8037801	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	60.26	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 30-May-2024 12:52		Seq: 8037888	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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	37.57	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 30-May-2024 23:44		Seq: 8039703	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
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	4	0.4	4	U	
Cobalt	5	0.2	5	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: 20-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID: ICPMS07_468021
Instrument: ICPMS07
Method: SW6020A

CCB4	Date: 30-May-2024 23:44	Seq: 8039703	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	91.4	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_467901

Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument:ICPMS07

WorkOrder: HS24051277 Method:SW6020A

ICSA	Date: 29-May-2024 11:13	Seq: 8035092	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	96850	96.9	
Antimony		0.104	0	
Arsenic		0.406	0	
Barium		0.502	0	
Beryllium		0.026	0	
Cadmium		0.747	0	
Calcium	100000	97400	97.4	
Chromium		0.89	0	
Cobalt		0.958	0	
Iron	100000	97680	97.7	
Lead		0.909	0	
Magnesium	100000	98020	98.0	
Manganese		1.612	0	
Nickel		1.012	0	
Potassium	100000	99130	99.1	
Selenium		0.23	0	
Silver		0.064	0	
Sodium	100000	98890	98.9	
Thallium		0.002	0	
Vanadium		0.251	0	
Zinc		2.861	0	

ICSAB	Date: 29-May-2024 11:15	Seq: 8035093	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	96920	96.4	
Antimony	100	99.93	99.9	
Arsenic	100	101	101	
Barium	100	102.7	103	
Beryllium	100	92.83	92.8	
Cadmium	100	98.01	98.0	
Calcium	110000	108200	98.4	
Chromium	100	99.72	99.7	
Cobalt	100	98.87	98.9	
Iron	110000	107800	98.0	
Lead	100	103.2	103	
Magnesium	110000	108800	98.9	
Manganese	100	101.6	102	
Nickel	100	95.47	95.5	
Potassium	110000	109700	99.8	
Selenium	100	100	100	
Silver	100	98.46	98.5	
Sodium	110000	109600	99.7	
Thallium	100	92.77	92.8	
Vanadium	100	101.9	102	
Zinc	100	99.76	99.8	

ALS Houston, US Date: 20-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_468021
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument:ICPMS07
WorkOrder: HS24051277 Method:SW6020A

ICSA	Date: 30-May-2024 11:33	Seq: 8037568	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	102200	102	
Antimony		0.201	0	
Arsenic		0.406	0	
Barium		0.583	0	
Beryllium		0.033	0	
Cadmium		0.693	0	
Calcium	100000	98520	98.5	
Chromium		0.878	0	
Cobalt		1.022	0	
Iron	100000	98360	98.4	
Lead		0.912	0	
Magnesium	100000	99090	99.1	
Manganese		1.687	0	
Nickel		1.052	0	
Potassium	100000	100000	100	
Selenium		-0.162	0	
Silver		0.041	0	
Sodium	100000	100100	100	
Thallium		0.002	0	
Vanadium		0.294	0	
Zinc		3.002	0	

ICSAB	Date: 30-May-2024 11:36	Seq: 8037569	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	103500	103	
Antimony	100	106.6	107	
Arsenic	100	104	104	
Barium	100	107.1	107	
Beryllium	100	101.8	102	
Cadmium	100	102.8	103	
Calcium	110000	110200	100	
Chromium	100	103.6	104	
Cobalt	100	102.1	102	
Iron	110000	110500	100	
Lead	100	106.1	106	
Magnesium	110000	110900	101	
Manganese	100	103.9	104	
Nickel	100	99.61	99.6	
Potassium	110000	112100	102	
Selenium	100	103.9	104	
Silver	100	103.8	104	
Sodium	110000	113500	103	
Thallium	100	93.94	93.9	
Vanadium	100	104.7	105	
Zinc	100	103	103	

ICSA	Date: 30-May-2024 23:54	Seq: 8039707	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98990	99.0	
Antimony		0.11	0	
Arsenic		0.315	0	
Barium		0.588	0	
Beryllium		0.033	0	
Cadmium		0.728	0	

ALS Houston, US

Date: 20-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Run ID:ICPMS07_468021
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 30-May-2024 23:54	Seq: 8039707	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Calcium	100000	97980	98.0	
Chromium		0.684	0	
Cobalt		0.994	0	
Iron	100000	99810	99.8	
Lead		0.943	0	
Magnesium	100000	99160	99.2	
Manganese		1.552	0	
Nickel		1.102	0	
Potassium	100000	99180	99.2	
Selenium		-0.006	0	
Silver		0.043	0	
Sodium	100000	100200	100	
Thallium		0.008	0	
Vanadium		-0.083	0	
Zinc		3.337	0	

ICSAB	Date: 30-May-2024 23:56	Seq: 8039708	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98930	98.4	
Antimony	100	103.9	104	
Arsenic	100	100.5	100	
Barium	100	104.1	104	
Beryllium	100	101.3	101	
Cadmium	100	100.8	101	
Calcium	110000	107700	97.9	
Chromium	100	100.5	100	
Cobalt	100	101.4	101	
Iron	110000	108000	98.1	
Lead	100	105.2	105	
Magnesium	110000	107400	97.7	
Manganese	100	101.2	101	
Nickel	100	99.74	99.7	
Potassium	110000	109400	99.4	
Selenium	100	102.9	103	
Silver	100	99.64	99.6	
Sodium	110000	109300	99.3	
Thallium	100	92.04	92.0	
Vanadium	100	102.4	102	
Zinc	100	102.4	102	

ALS Houston, US

Date: 20-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 20:09
Date Extracted: 30-May-2024 10:30
Units: ug/L

Matrix Spike: HS24051277-01MS
Client Sample ID: LH18/24-SP140_052124

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.830	5.000	96.1	4.730	5.000	94.1	82-119	2.09	20

ALS Houston, US

Date: 20-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 12:05
Date Extracted: 23-May-2024 15:30
Units: ug/L

Matrix Spike: HS24051276-01MS
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	6.543	117.3	100.0	111	120.2	100.0	114	84-117	2.49	20
Antimony	5.000	49.45	50.00	98.4	50.09	50.00	99.7	85-117	1.29	20
Arsenic	5.000	50.56	50.00	101	50.88	50.00	101	84-116	0.631	20
Barium	217.4	263.2	50.00	91.6	269.4	50.00	104	86-114	2.33	20
Beryllium	2.000	46.70	50.00	93.4	46.23	50.00	92.4	83-121	1.00	20
Cadmium	2.000	47.61	50.00	95.2	48.36	50.00	96.7	87-115	1.56	20
Calcium	21810	26760	5000	99.0	27180	5000	108	87-118	1.58	20
Chromium	0.8940	49.62	50.00	97.5	50.57	50.00	99.4	85-116	1.90	20
Cobalt	5.000	48.98	50.00	97.8	49.14	50.00	98.1	86-115	0.340	20
Iron	83.96	4932	5000	97.0	5026	5000	98.8	87-118	1.89	20
Lead	5.000	48.92	50.00	97.8	49.89	50.00	99.7	88-115	1.97	20
Magnesium	10490	15380	5000	97.9	15730	5000	105	83-118	2.21	20
Manganese	46.96	96.86	50.00	99.8	97.38	50.00	101	87-115	0.530	20
Nickel	5.000	48.22	50.00	95.7	48.75	50.00	96.8	85-117	1.08	20
Potassium	2067	7026	5000	99.2	7147	5000	102	87-115	1.71	20
Selenium	5.000	48.55	50.00	97.0	49.01	50.00	97.9	80-120	0.941	20
Silver	0.3780	47.34	50.00	93.9	47.48	50.00	94.2	85-116	0.300	20
Sodium	527300	533000	5000	114	542900	5000	313	85-117	1.85	20
Thallium	2.000	44.08	50.00	88.1	45.76	50.00	91.4	82-116	3.75	20
Vanadium	5.000	49.73	50.00	99.0	50.76	50.00	101	86-115	2.06	20
Zinc	3.855	53.84	50.00	100	54.95	50.00	102	83-119	2.05	20

ALS Houston, US Date: 20-Jun-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 12:08
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: HS24051276-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	6.543	103.3	100	97	80-120
Antimony	0	99.18	100	99	80-120
Arsenic	0	97.44	100	97	80-120
Barium	217.4	303.8	100	86	80-120
Beryllium	0	88.77	100	89	80-120
Cadmium	0	91.98	100	92	80-120
Calcium	21810	31030	10000	92	80-120
Chromium	0.894	96.18	100	95	80-120
Cobalt	0	94.91	100	95	80-120
Iron	83.96	9687	10000	96	80-120
Lead	0	95.19	100	95	80-120
Magnesium	10490	19970	10000	95	80-120
Manganese	46.96	143.3	100	96	80-120
Nickel	0	92.52	100	92	80-120
Potassium	2067	11760	10000	97	80-120
Selenium	0	95.34	100	95	80-120
Silver	0.378	91.47	100	91	80-120
Thallium	0	89.3	100	89	80-120
Vanadium	0	98.38	100	98	80-120
Zinc	3.855	98.08	100	94	80-120
Sodium	531600	1036000	500000	101	80-120

ALS Houston, US Date: 20-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 19:55
Date Extracted: 30-May-2024 10:30
Units: ug/L

Lab Sample ID: LCS-212789 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.48	90	82-119

ALS Houston, US

Date: 20-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 12:18
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: LCS-212449
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	101.8	102	84-117
Antimony	50	48.8	98	85-117
Arsenic	50	47.51	95	84-116
Barium	50	47.27	95	86-114
Beryllium	50	46.52	93	83-121
Cadmium	50	45.53	91	87-115
Calcium	5000	4892	98	87-118
Chromium	50	47.99	96	85-116
Cobalt	50	48.21	96	86-115
Iron	5000	4809	96	87-118
Lead	50	47.24	95	88-115
Magnesium	5000	4894	98	83-118
Manganese	50	49.32	99	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4873	98	87-115
Selenium	50	47.42	95	80-120
Silver	50	47.23	95	85-116
Sodium	5000	4967	99	85-117
Vanadium	50	47.59	95	86-115
Zinc	50	50.94	102	83-119
Thallium	50	46.42	93	82-116

ALS Houston, US Date: 20-Jun-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS24051277

Date Analyzed: 30-May-2024 12:00
Date Extracted: 23-May-2024 15:30
Units: ug/L

Lab Sample ID: HS24051276-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	6.543	J	0	U	0	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	217.4		219.6		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	21810		21180		3	
Chromium	0.894	J	0	U	0	
Cobalt	0	U	0	U	0	
Iron	83.96	J	87.65	J	4	
Lead	0	U	0	U	0	
Magnesium	10490		10500		0	
Manganese	46.96		47.88		2	
Nickel	0	U	0	U	0	
Potassium	2067		2027		2	
Selenium	0	U	0	U	0	
Silver	0.378	J	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	3.855	J	0	U	0	
Sodium	531600		554800		4	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\053024AW.wszf

Creation Date: 5/30/2024 2:45:15 PM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	05/30/24 03:39:11 pm	0.000	-156	44.77		
	Replicates	-244.6	-171.7	-129.5	-79.3						
Standard #1 (0.2 ppb)					STD	05/30/24 03:40:53 pm	0.200	1148	5.45	0.54%	
	Replicates	1072.3	1123.9	1183.1	1212.9						
Standard #2 (0.5 ppb)					STD	05/30/24 03:42:35 pm	0.500	2998	1.39	-1.38%	
	Replicates	2945.9	2989.2	3010.0	3046.0						
Standard #3 (2.0 ppb)					STD	05/30/24 03:44:18 pm	2.000	12647	0.26	0.83%	
	Replicates	12685.0	12650.2	12650.2	12604.6						
Standard #4 (5.0 ppb)					STD	05/30/24 03:46:01 pm	5.000	31175	0.48	-1.16%	
	Replicates	31309.7	31268.8	31145.8	30977.8						
Standard #5 (10.0 ppb)					STD	05/30/24 03:47:44 pm	10.000	63432	0.53	0.35%	
	Replicates	63839.5	63551.1	63281.6	63056.3						

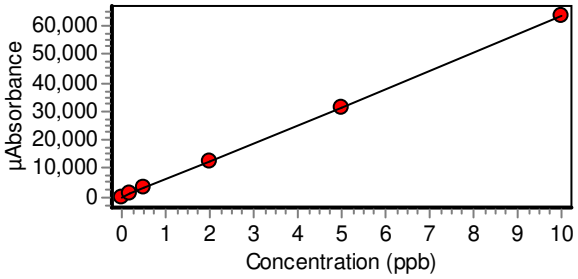
Calibration

Equation: Abs = 6333.891x + -125.606

R2: 0.99994 RSE: 1.20%

SEE: 222.2305

Flags:



ICCV					UNK	05/30/24 03:51:36 pm	4.920	31064	0.39		
	Replicates	31213.7	31095.5	31017.9	30928.1						
ICV					UNK	05/30/24 03:53:18 pm	5.260	33193	0.58		
	Replicates	33401.7	33293.0	33119.2	32959.2						
ICB					UNK	05/30/24 03:55:00 pm	-0.012	-199	102.92		
	Replicates	-302.1	-203.8	-159.4	-129.8						
CRA					UNK	05/30/24 04:01:15 pm	0.171	959	6.97		
	Replicates	865.9	943.2	979.0	1047.4						
CCV					UNK	05/30/24 04:04:01 pm	4.890	30863	0.24		
	Replicates	30862.8	30940.8	30884.8	30763.2						
CCB					UNK	05/30/24 04:05:44 pm	-0.029	-310	30.29		
	Replicates	-374.4	-335.0	-282.4	-248.1						
MBLK-212784					UNK	05/30/24 04:17:24 pm	-0.017	-232	40.91		
	Replicates	-286.8	-226.1	-235.4	-180.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-212784					UNK	05/30/24 04:19:06 pm	4.740	29919	0.56		
	Replicates	30096.1	30002.0	29866.0	29712.6						
MBLKT1-212665					UNK	05/30/24 04:20:48 pm	-0.004	-149	195.40		
	Replicates	-211.1	-154.5	-129.7	-102.1						
MBLKT2-212403					UNK	05/30/24 04:22:30 pm	-0.027	-299	21.51		
	Replicates	-336.3	-325.4	-276.0	-259.4						
MBLKT3-212404					UNK	05/30/24 04:24:13 pm	-0.021	-262	23.49		
	Replicates	-286.9	-274.1	-271.5	-214.9						
MBLKT4-212471					UNK	05/30/24 04:25:56 pm	-0.023	-273	18.09		
	Replicates	-300.8	-285.4	-265.6	-239.2						
MBLKT5-212656					UNK	05/30/24 04:27:38 pm	-0.019	-243	40.25		
	Replicates	-301.6	-256.0	-225.8	-189.8						
MBLKT6-212473					UNK	05/30/24 04:29:22 pm	-0.024	-280	24.07		
	Replicates	-322.1	-281.3	-284.3	-231.6						
MBLKT7-212488					UNK	05/30/24 04:31:03 pm	-0.022	-267	40.89		
	Replicates	-333.5	-293.7	-235.9	-204.5						
HS24050996-04					UNK	05/30/24 04:32:44 pm	-0.031	-324	13.33		
	Replicates	-353.7	-336.6	-315.0	-292.6						
CCV					UNK	05/30/24 04:34:52 pm	4.850	30586	0.34		
	Replicates	30464.4	30684.3	30657.9	30536.9						
CCB					UNK	05/30/24 04:36:36 pm	-0.030	-313	26.25		
	Replicates	-364.9	-341.9	-291.1	-255.7						
HS24050996-04MS					UNK	05/30/24 04:39:56 pm	4.970	31359	0.17		
	Replicates	31385.0	31406.3	31358.6	31285.6						
HS24050996-04MSD					UNK	05/30/24 04:41:38 pm	4.880	30798	0.12		
	Replicates	30766.9	30824.1	30833.3	30767.4						
HS24051278-04					UNK	05/30/24 04:43:20 pm	-0.027	-295	25.15		
	Replicates	-349.1	-309.4	-265.8	-256.6						
HS24051294-01					UNK	05/30/24 04:45:02 pm	-0.031	-324	18.47		
	Replicates	-368.7	-336.3	-307.9	-283.7						
HS24051334-01					UNK	05/30/24 04:46:44 pm	-0.012	-203	48.70		
	Replicates	-254.9	-201.1	-192.6	-164.4						
HS24051334-02					UNK	05/30/24 04:48:27 pm	-0.018	-243	43.99		
	Replicates	-308.9	-248.6	-228.8	-184.8						
HS24051398-01					UNK	05/30/24 04:50:09 pm	0.031	69	68.13		
	Replicates	-88.3	25.7	113.1	223.7						
HS24051399-01					UNK	05/30/24 04:51:52 pm	-0.171	-1209	4.24		
	Replicates	-1265.0	-1223.5	-1191.1	-1157.5						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051402-01		UNK	05/30/24 04:53:35 pm	0.007	-80	118.96		
	Replicates -159.3 -70.0 -48.2 -43.2							
HS24051402-03		UNK	05/30/24 04:55:18 pm	0.008	-75	81.56		
	Replicates -133.1 -74.1 -53.7 -39.3							
CCV		UNK	05/30/24 04:57:25 pm	4.830	30469	0.23		
	Replicates 30510.8 30542.4 30440.4 30382.7							
CCB		UNK	05/30/24 04:59:09 pm	-0.005	-155	215.88		
	Replicates -232.4 -170.7 -133.9 -82.5							
HS24051402-05		UNK	05/30/24 05:02:24 pm	0.004	-103	252.42		
	Replicates -165.2 -127.9 -85.3 -35.3							
HS24051402-07		UNK	05/30/24 05:04:06 pm	-0.007	-169	117.61		
	Replicates -238.1 -177.2 -141.0 -121.0							
HS24051402-09		UNK	05/30/24 05:05:47 pm	-0.008	-177	101.58		
	Replicates -239.2 -202.7 -129.7 -137.9							
HS24051402-11		UNK	05/30/24 05:07:29 pm	-0.007	-167	93.96		
	Replicates -212.6 -175.9 -163.4 -117.6							
HS24051402-13		UNK	05/30/24 05:09:11 pm	-0.008	-175	72.87		
	Replicates -222.9 -159.3 -179.9 -138.4							
HS24051402-15		UNK	05/30/24 05:10:53 pm	-0.002	-136	329.80		
	Replicates -172.8 -145.6 -134.6 -90.8							
HS24051462-01		UNK	05/30/24 05:12:36 pm	0.000	-125	130.07		
	Replicates -180.6 -142.1 -104.7 -72.4							
HS24051541-01		UNK	05/30/24 05:14:18 pm	-0.004	-152	182.48		
	Replicates -206.2 -167.7 -147.3 -88.7							
HS24051582-01		UNK	05/30/24 05:16:01 pm	-0.010	-190	73.24		
	Replicates -249.9 -205.3 -155.7 -149.1							
HS24051616-01		UNK	05/30/24 05:17:43 pm	-0.005	-160	140.36		
	Replicates -217.7 -183.4 -128.1 -112.4							
CCV		UNK	05/30/24 05:20:13 pm	4.800	30259	0.23		
	Replicates 30325.9 30299.3 30240.8 30169.3							
CCB		UNK	05/30/24 05:21:57 pm	-0.021	-262	40.61		
	Replicates -330.4 -276.5 -242.3 -199.3							
HS24051625-01		UNK	05/30/24 05:26:26 pm	0.043	149	15.06		
	Replicates 95.2 143.0 164.0 193.4							
MBLK-212786		UNK	05/30/24 05:28:09 pm	-0.005	-160	163.16		
	Replicates -227.1 -182.6 -128.6 -101.4							
LCS-212786		UNK	05/30/24 05:29:51 pm	4.680	29488	0.29		
	Replicates 29362.3 29546.3 29535.9 29506.2							

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24050984-01		UNK	05/30/24 05:31:32 pm	-0.015	-224	47.67		
Replicates	-290.4	-219.8	-201.8	-183.4				
HS24050984-02		UNK	05/30/24 05:33:14 pm	0.009	-70	65.11		
Replicates	-120.2	-68.5	-56.9	-35.1				
HS24050984-02MS		UNK	05/30/24 05:34:56 pm	4.010	25260	0.59		
Replicates	25056.1	25246.9	25334.3	25401.3				
HS24050984-02MSD		UNK	05/30/24 05:36:38 pm	4.280	26980	0.33		
Replicates	26855.3	26971.7	27032.1	27059.8				
HS24050984-03		UNK	05/30/24 05:38:20 pm	-0.011	-192	65.99		
Replicates	-228.3	-227.3	-175.4	-137.6				
HS24050984-04		UNK	05/30/24 05:40:02 pm	0.000	-124	829.53		
Replicates	-202.1	-129.9	-95.7	-66.5				
HS24050984-05		UNK	05/30/24 05:41:45 pm	0.012	-47	60.13		
Replicates	-107.2	-55.5	-30.9	5.3				
CCV		UNK	05/30/24 05:44:40 pm	4.720	29791	0.18		
Replicates	29747.7	29830.8	29845.6	29739.8				
CCB		UNK	05/30/24 05:48:33 pm	-0.011	-197	26.75		
Replicates	-217.1	-210.4	-180.6	-181.1				
HS24050984-06		UNK	05/30/24 05:50:15 pm	-0.001	-133	793.26		
Replicates	-197.6	-170.6	-97.8	-67.2				
HS24050984-07		UNK	05/30/24 05:51:58 pm	-0.005	-159	154.45		
Replicates	-222.8	-180.4	-118.2	-115.6				
HS24050984-08		UNK	05/30/24 05:53:41 pm	0.006	-90	132.70		
Replicates	-147.5	-107.5	-64.1	-40.1				
HS24050984-09		UNK	05/30/24 05:55:24 pm	0.019	-3	29.76		
Replicates	-43.1	-21.1	14.7	39.1				
HS24050984-10		UNK	05/30/24 05:57:06 pm	0.021	8	35.65		
Replicates	-52.4	-3.3	30.9	58.5				
HS24050984-11		UNK	05/30/24 05:58:48 pm	0.022	11	44.08		
Replicates	-63.5	15.7	8.7	84.1				
HS24050984-12		UNK	05/30/24 06:00:30 pm	0.015	-31	64.94		
Replicates	-112.6	-42.9	9.5	23.5				
HS24050984-13		UNK	05/30/24 06:02:12 pm	1.060	6613	0.56		
Replicates	6565.1	6602.1	6644.7	6641.1				
HS24050984-14		UNK	05/30/24 06:03:54 pm	0.050	194	15.58		
Replicates	129.7	180.0	228.4	237.8				
HS24050984-15 X5		UNK	05/30/24 06:09:52 pm	3.790	23879	5.01		
Replicates	25421.5	24188.7	23231.4	22675.8				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	05/30/24 06:11:59 pm	4.770	30059	0.20		
	Replicates	29979.6	30109.3	30102.3	30044.7						
CCB					UNK	05/30/24 06:13:43 pm	-0.005	-154	199.17		
	Replicates	-218.8	-185.6	-110.6	-102.2						
HS24050984-16					UNK	05/30/24 06:17:42 pm	0.005	-97	198.86		
	Replicates	-163.4	-111.1	-87.7	-23.9						
MBLK-212787					UNK	05/30/24 06:19:25 pm	0.010	-64	90.80		
	Replicates	-124.3	-90.0	-47.8	4.6						
LCS-212787					UNK	05/30/24 06:23:22 pm	4.600	29008	0.12		
	Replicates	28960.5	29026.9	29043.5	29000.7						
HS24051071-01					UNK	05/30/24 06:25:04 pm	-0.010	-191	54.56		
	Replicates	-240.2	-169.1	-195.1	-160.5						
HS24051071-02					UNK	05/30/24 06:26:47 pm	0.028	53	21.77		
	Replicates	9.1	32.1	75.1	93.8						
HS24051071-02MS					UNK	05/30/24 06:34:53 pm	4.750	29977	0.31		
	Replicates	29849.4	30063.4	30025.2	29968.4						
HS24051071-02MSD					UNK	05/30/24 06:36:35 pm	4.620	29154	2.49		
	Replicates	28159.3	29073.4	29595.2	29790.0						
HS24051071-03					UNK	05/30/24 06:38:17 pm	-0.012	-200	48.14		
	Replicates	-244.3	-202.9	-195.6	-156.9						
HS24051071-04					UNK	05/30/24 06:40:00 pm	0.010	-63	48.03		
	Replicates	-99.6	-75.0	-39.4	-36.4						
HS24051071-05					UNK	05/30/24 06:41:42 pm	0.009	-66	84.35		
	Replicates	-109.0	-100.0	-56.0	0.8						
CCV					UNK	05/30/24 06:44:22 pm	4.780	30148	0.57		
	Replicates	29891.9	30218.3	30248.9	30233.8						
CCB					UNK	05/30/24 06:46:06 pm	0.001	-117	526.33		
	Replicates	-165.1	-135.6	-108.3	-59.2						
HS24051071-06					UNK	05/30/24 06:47:48 pm	0.057	235	19.51		
	Replicates	148.6	208.1	281.5	302.1						
HS24051071-07					UNK	05/30/24 06:49:30 pm	0.028	49	25.94		
	Replicates	-7.7	39.2	63.0	100.2						
HS24051071-08					UNK	05/30/24 06:51:13 pm	0.041	132	11.12		
	Replicates	111.9	107.4	137.2	169.6						
HS24051071-09					UNK	05/30/24 06:52:55 pm	0.038	113	16.22		
	Replicates	66.8	100.3	126.7	157.9						
HS24051071-10					UNK	05/30/24 06:54:38 pm	0.016	-22	32.81		
	Replicates	-70.7	-18.8	-7.2	7.0						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051071-11					UNK	05/30/24 06:56:21 pm	0.013	-41	53.37		
	Replicates	-107.5	-30.6	-14.4	-11.4						
MBLK-212788					UNK	05/30/24 06:59:02 pm	0.014	-35	52.44		
	Replicates	-98.5	-43.7	-7.1	7.7						
LCS-212788					UNK	05/30/24 07:00:45 pm	4.650	29357	0.52		
	Replicates	29128.6	29419.7	29454.3	29423.5						
HS24050719-07					UNK	05/30/24 07:02:28 pm	0.039	123	29.80		
	Replicates	32.5	98.2	155.9	203.8						
HS24050719-08					UNK	05/30/24 07:04:10 pm	0.044	154	18.04		
	Replicates	95.2	132.2	177.2	210.0						
CCV					UNK	05/30/24 07:07:19 pm	4.810	30328	0.23		
	Replicates	30225.8	30368.3	30375.1	30342.1						
CCB					UNK	05/30/24 07:09:03 pm	-0.010	-186	93.06		
	Replicates	-262.8	-192.7	-148.1	-140.3						
HS24050719-09					UNK	05/30/24 07:10:46 pm	0.007	-83	101.89		
	Replicates	-136.7	-83.7	-81.4	-30.6						
HS24050719-10					UNK	05/30/24 07:12:28 pm	0.052	201	14.67		
	Replicates	157.4	181.1	197.4	268.8						
HS24050719-11					UNK	05/30/24 07:14:10 pm	0.017	-17	47.77		
	Replicates	-78.8	-39.7	20.4	32.2						
HS24050719-12					UNK	05/30/24 07:15:53 pm	0.301	1783	3.09		
	Replicates	1701.9	1776.9	1825.3	1827.9						
HS24050719-13					UNK	05/30/24 07:17:35 pm	0.879	5440	2.08		
	Replicates	5321.9	5368.8	5492.0	5576.2						
HS24050719-14					UNK	05/30/24 07:19:17 pm	1.010	6287	31.15		
	Replicates	4626.1	4917.0	6633.4	8972.6						
HS24050968-01					UNK	05/30/24 07:21:00 pm	-0.002	-136	545.82		
	Replicates	-190.4	-172.6	-97.8	-81.2						
HS24050968-02					UNK	05/30/24 07:22:43 pm	0.024	27	34.28		
	Replicates	-37.6	15.1	45.1	87.1						
HS24050968-03					UNK	05/30/24 07:24:25 pm	0.005	-94	104.31		
	Replicates	-129.4	-111.8	-78.3	-54.5						
HS24051077-01					UNK	05/30/24 07:26:08 pm	0.008	-75	121.74		
	Replicates	-154.9	-68.1	-72.1	-4.1						
CCV					UNK	05/30/24 07:30:13 pm	4.780	30149	0.31		
	Replicates	30012.8	30206.3	30218.9	30156.8						
CCB					UNK	05/30/24 07:31:57 pm	-0.006	-161	177.69		
	Replicates	-245.0	-143.4	-163.0	-93.2						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051263-05				UNK	05/30/24 07:33:39 pm	0.082	391	10.21		
Replicates	329.4	380.4	395.8	457.4						
HS24051263-06				UNK	05/30/24 07:35:22 pm	0.071	321	11.48		
Replicates	255.1	310.9	344.0	375.0						
HS24051399-01				UNK	05/30/24 07:37:04 pm	0.003	-108	341.03		
Replicates	-193.4	-109.8	-71.2	-55.8						
HS24051438-01				UNK	05/30/24 07:38:47 pm	0.028	52	32.93		
Replicates	-15.8	25.0	86.2	113.6						
HS24051438-01MS				UNK	05/30/24 07:40:30 pm	4.770	30116	0.85		
Replicates	29751.8	30127.1	30255.7	30328.1						
HS24051438-01MSD				UNK	05/30/24 07:42:12 pm	4.700	29652	0.61		
Replicates	29416.8	29612.7	29736.3	29841.1						
HS24051493-01				UNK	05/30/24 07:43:55 pm	0.036	103	39.47		
Replicates	-11.4	83.1	137.5	201.3						
HS24051494-01				UNK	05/30/24 07:45:37 pm	0.028	54	17.64		
Replicates	58.6	92.4	48.4	15.6						
HS24051611-02				UNK	05/30/24 07:47:20 pm	0.018	-14	38.24		
Replicates	-63.3	-20.5	-11.4	41.2						
MBLK-212789				UNK	05/30/24 07:49:03 pm	0.028	53	23.45		
Replicates	9.5	28.3	70.5	102.3						
CCV				UNK	05/30/24 07:52:30 pm	4.770	30095	0.63		
Replicates	29812.5	30166.3	30227.3	30173.1						
CCB				UNK	05/30/24 07:54:14 pm	-0.001	-133	772.06		
Replicates	-184.6	-168.6	-118.6	-59.8						
LCS-212789				UNK	05/30/24 07:55:57 pm	4.480	28238	1.16		
Replicates	27831.6	28138.8	28388.2	28591.6						
HS24051228-01				UNK	05/30/24 07:57:40 pm	-0.041	-387	12.68		
Replicates	-417.1	-410.5	-376.5	-345.3						
HS24051276-01				UNK	05/30/24 07:59:22 pm	0.008	-76	59.95		
Replicates	-106.4	-73.4	-87.2	-35.6						
HS24051277-01				UNK	05/30/24 08:01:05 pm	0.023	21	27.91		
Replicates	-33.1	14.3	41.9	61.3						
HS24051277-01MS				UNK	05/30/24 08:08:04 pm	4.830	30443	0.79		
Replicates	30628.1	30674.4	30227.8	30242.3						
HS24051277-01MSD				UNK	05/30/24 08:09:47 pm	4.730	29858	0.40		
Replicates	29689.2	29865.2	29918.0	29961.2						
MBLK-212790				UNK	05/30/24 08:13:07 pm	0.001	-121	077.59		
Replicates	-186.6	-117.9	-109.1	-70.9						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-212790					UNK	05/30/24 08:14:49 pm	4.580	28853	0.73		
	Replicates	29125.6	28793.3	28614.8	28879.9						
HS24050916-01					UNK	05/30/24 08:16:32 pm	-0.007	-168	147.63		
	Replicates	-238.3	-198.1	-138.9	-96.8						
HS24050984-01					UNK	05/30/24 08:18:14 pm	0.123	655	20.09		
	Replicates	462.8	645.9	846.7	666.5						
CCV					UNK	05/30/24 08:21:09 pm	4.780	30136	0.42		
	Replicates	29949.9	30171.8	30222.8	30200.4						
CCB					UNK	05/30/24 08:22:53 pm	-0.001	-133	697.94		
	Replicates	-196.9	-144.6	-114.5	-75.8						
HS24050984-02					UNK	05/30/24 08:24:35 pm	0.017	-16	40.45		
	Replicates	-67.2	-34.3	1.5	35.1						
HS24050984-02MS					UNK	05/30/24 08:26:18 pm	4.410	27818	0.46		
	Replicates	27629.4	27852.9	27901.3	27887.3						
HS24050984-02MSD					UNK	05/30/24 08:28:01 pm	4.370	27544	0.57		
	Replicates	27308.7	27590.4	27633.2	27642.2						
HS24050984-03					UNK	05/30/24 08:29:44 pm	-0.011	-195	79.54		
	Replicates	-263.4	-208.6	-171.6	-134.8						
HS24050984-04					UNK	05/30/24 08:31:26 pm	0.006	-85	86.03		
	Replicates	-127.2	-94.4	-73.3	-43.5						
HS24050984-05					UNK	05/30/24 08:33:09 pm	0.001	-118	624.54		
	Replicates	-170.9	-132.6	-105.1	-65.3						
HS24050984-06					UNK	05/30/24 08:34:52 pm	0.023	18	38.86		
	Replicates	-53.7	5.1	44.9	75.5						
HS24050984-07					UNK	05/30/24 08:36:35 pm	0.009	-71	121.83		
	Replicates	-143.8	-102.9	-45.8	8.9						
HS24050984-08					UNK	05/30/24 08:38:18 pm	0.009	-66	67.10		
	Replicates	-107.0	-92.7	-42.3	-23.9						
HS24050984-09					UNK	05/30/24 08:40:01 pm	-0.002	-138	386.73		
	Replicates	-205.1	-143.8	-114.6	-90.2						
CCV					UNK	05/30/24 08:44:09 pm	4.750	29985	0.63		
	Replicates	29704.4	30039.2	30103.6	30092.9						
CCB					UNK	05/30/24 08:45:53 pm	0.001	-119	819.26		
	Replicates	-173.5	-153.6	-98.0	-50.0						
HS24050984-10					UNK	05/30/24 08:47:35 pm	0.017	-16	47.02		
	Replicates	-64.3	-51.6	4.4	46.6						
HS24050984-11					UNK	05/30/24 08:49:18 pm	3.800	23926	0.70		
	Replicates	23679.6	23959.8	24026.0	24037.6						

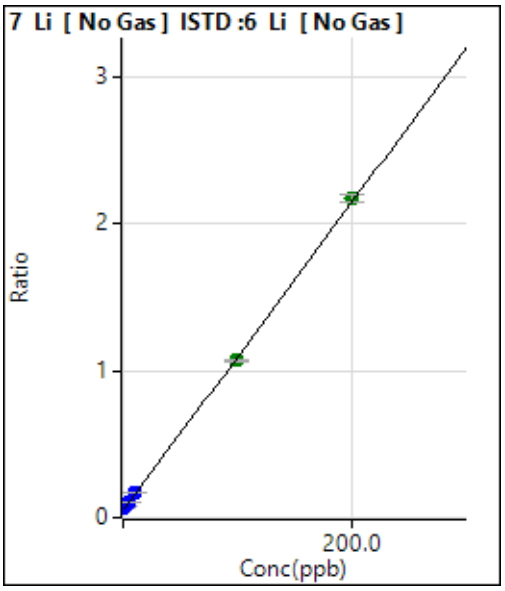
Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24050984-12				UNK	05/30/24 08:51:01 pm	0.119	626	5.72		
Replicates	562.8	638.8	647.0	656.8						
HS24050984-13				UNK	05/30/24 08:52:44 pm	1.100	6873	2.75		
Replicates	6635.5	6812.9	6959.7	7081.9						
HS24050984-14				UNK	05/30/24 08:54:27 pm	0.004	-97	123.30		
Replicates	-132.4	-120.8	-76.9	-59.3						
HS24050984-15 X2				UNK	05/30/24 08:58:51 pm	6.450	40755	1.16		
Replicates	40065.1	40824.4	41091.1	41038.3						
HS24050984-16				UNK	05/30/24 09:00:34 pm	-0.008	-175	134.93		
Replicates	-246.5	-208.5	-147.3	-96.5						
HS24051071-01				UNK	05/30/24 09:02:17 pm	0.003	-106	230.43		
Replicates	-151.5	-131.1	-92.0	-50.0						
HS24051071-02				UNK	05/30/24 09:04:00 pm	1.640	10273	1.97		
Replicates	9994.7	10253.3	10377.8	10466.5						
HS24051071-02MS				UNK	05/30/24 09:05:43 pm	6.290	39691	0.44		
Replicates	39429.8	39732.4	39797.1	39804.6						
CCV				UNK	05/30/24 09:09:22 pm	4.760	30001	0.46		
Replicates	29805.0	30095.3	30096.9	30007.3						
CCB				UNK	05/30/24 09:11:45 pm	0.022	14	30.35		
Replicates	-35.0	-2.1	31.6	63.5						
HS24051071-02MSD				UNK	05/30/24 09:13:28 pm	6.200	39114	0.77		
Replicates	38681.1	39134.2	39307.2	39334.8						
HS24051071-03				UNK	05/30/24 09:15:11 pm	0.706	4343	5.05		
Replicates	4116.8	4223.2	4400.6	4632.6						
MBLK-212791				UNK	05/30/24 09:16:54 pm	0.015	-32	44.50		
Replicates	-86.1	-40.5	-11.9	10.5						
LCS-212791				UNK	05/30/24 09:18:37 pm	4.520	28494	1.49		
Replicates	27880.8	28525.6	28764.3	28806.6						
HS24051071-04				UNK	05/30/24 09:20:20 pm	0.008	-73	87.30		
Replicates	-125.8	-92.5	-51.9	-19.7						
HS24051071-05				UNK	05/30/24 09:22:03 pm	0.021	7	38.98		
Replicates	-56.8	3.1	13.1	69.7						
HS24051071-06				UNK	05/30/24 09:23:46 pm	0.081	389	9.63		
Replicates	351.3	348.9	403.6	453.3						
HS24051071-07				UNK	05/30/24 09:25:29 pm	0.041	132	24.41		
Replicates	65.0	115.1	133.3	216.5						
HS24051071-07MS				UNK	05/30/24 09:31:23 pm	4.710	29679	0.81		
Replicates	29320.3	29754.2	29826.2	29813.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24051071-07MSD					UNK	05/30/24 09:33:06 pm	4.720	29745	0.59		
	Replicates	29483.8	29824.8	29822.8	29850.1						
CCV					UNK	05/30/24 09:35:34 pm	4.690	29571	1.13		
	Replicates	29075.5	29660.3	29769.6	29779.2						
CCB					UNK	05/30/24 09:37:17 pm	-0.002	-136	637.54		
	Replicates	-213.9	-166.1	-109.5	-55.9						
HS24051071-08					UNK	05/30/24 09:39:01 pm	0.060	255	14.17		
	Replicates	185.5	249.0	268.0	315.6						
HS24051071-09					UNK	05/30/24 09:40:44 pm	0.042	141	25.10		
	Replicates	74.8	96.3	177.9	216.6						
HS24051071-10					UNK	05/30/24 09:42:27 pm	0.013	-44	66.89		
	Replicates	-114.5	-32.1	-46.7	18.1						
HS24051071-11					UNK	05/30/24 09:44:10 pm	0.021	6	41.84		
	Replicates	-56.4	-20.9	34.3	66.5						
CCV					UNK	05/30/24 09:48:08 pm	3.940	24817	8.06		
	Replicates	22738.3	23796.9	25373.9	27357.5						
CCV					UNK	05/30/24 09:51:22 pm	4.720	29793	0.47		
	Replicates	29655.2	29938.1	29887.9	29692.5						
CCB					UNK	05/30/24 09:53:06 pm	-0.007	-172	119.81		
	Replicates	-237.7	-185.8	-162.0	-103.2						

Calibration for 295_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

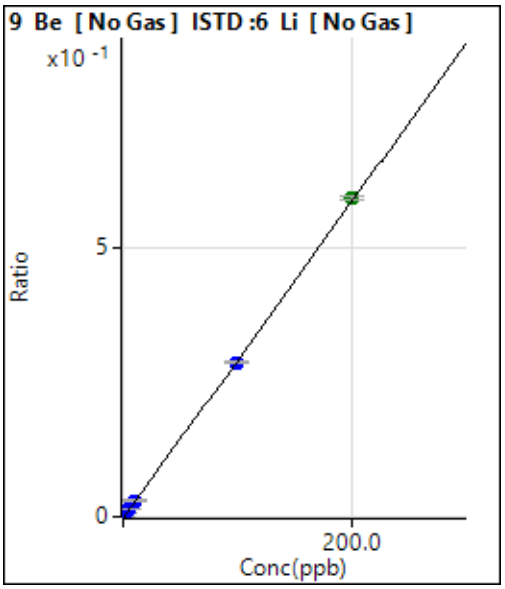
Level	Standard Data File	Sample Name	Acq. Date-Time
1	288CALB.d	CAL BLK	5/29/2024 11:29:22 PM
2	289CALS.d	2/10/200	5/29/2024 11:31:53 PM
3	290CALS.d	5/25/500	5/29/2024 11:34:23 PM
4	291CALS.d	10/50/100	5/29/2024 11:36:53 PM
5	292CALS.d	100/500/10K	5/29/2024 11:39:22 PM
6	293CALS.d	200/1000/20K	5/29/2024 11:41:54 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	82853.43	0.0598	P	0.6	
2	☐	2.000	2.018	114313.90	0.0809	P	1.8	0.9
3	☐	5.000	4.688	157349.63	0.1088	P	1.4	-6.2
4	☐	10.000	10.479	236506.17	0.1694	P	4.3	4.8
5	☐	100.000	96.451	1467176.85	1.0690	A	1.5	-3.5
6	☐	200.000	201.758	2739034.75	2.1709	A	1.9	0.9

y = 0.0105 * x + 0.0598
R = 0.9998
DL = 0.1026 ppb
BEC = 5.712 ppb

Weight: <None>
Min Conc: <None>

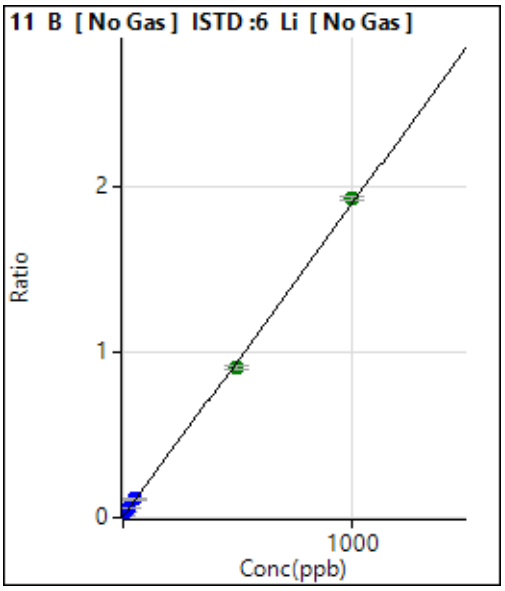


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38.33	0.0000	P	3.5	
2	☐	2.000	2.062	8622.68	0.0061	P	4.2	3.1
3	☐	5.000	4.614	19693.75	0.0136	P	5.7	-7.7
4	☐	10.000	10.125	41664.20	0.0299	P	6.3	1.2
5	☐	100.000	97.234	393267.98	0.2865	P	1.4	-2.8
6	☐	200.000	201.386	748765.75	0.5934	A	1.6	0.7

y = 0.0029 * x + 2.7632E-005
R = 0.9999
DL = 0.0009863 ppb
BEC = 0.009377 ppb

Weight: <None>
Min Conc: <None>

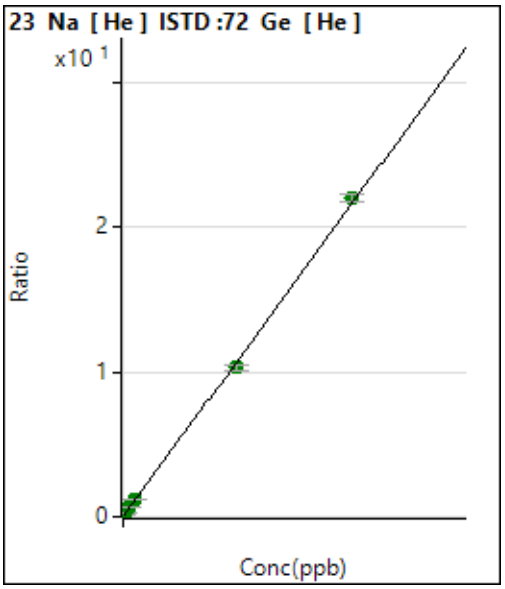
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20770.27	0.0150	P	1.0	
2	☐	10.000	10.045	47924.03	0.0339	P	4.7	0.4
3	☐	25.000	22.588	83262.77	0.0576	P	2.9	-9.6
4	☐	50.000	51.044	155296.08	0.1113	P	5.1	2.1
5	☐	500.000	471.739	1241578.42	0.9047	A	1.9	-5.7
6	☐	1000.000	1014.138	2432232.36	1.9277	A	1.5	1.4

y = 0.0019 * x + 0.0150
R = 0.9994
DL = 0.2328 ppb
BEC = 7.946 ppb

Weight: <None>
Min Conc: <None>

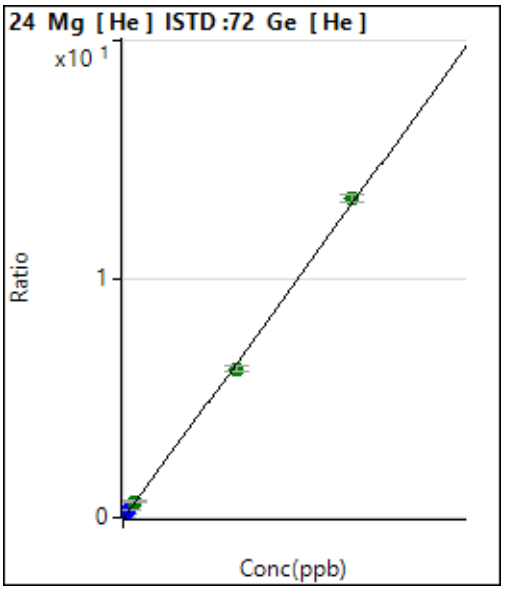


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236705.43	0.1312	P	2.1	
2	☐	200.000	177.096	580552.74	0.3221	A	0.2	-11.5
3	☐	500.000	444.787	1074124.83	0.6108	A	2.7	-11.0
4	☐	1000.000	1028.264	2084495.65	1.2400	A	0.6	2.8
5	☐	10000.00	9423.364	17332273.91	10.2930	A	4.6	-5.8
6	☐	20000.00	20288.51	36460995.29	22.0095	A	2.1	1.4

y = 0.0011 * x + 0.1312
R = 0.9994
DL = 7.726 ppb
BEC = 121.6 ppb

Weight: <None>
Min Conc: <None>

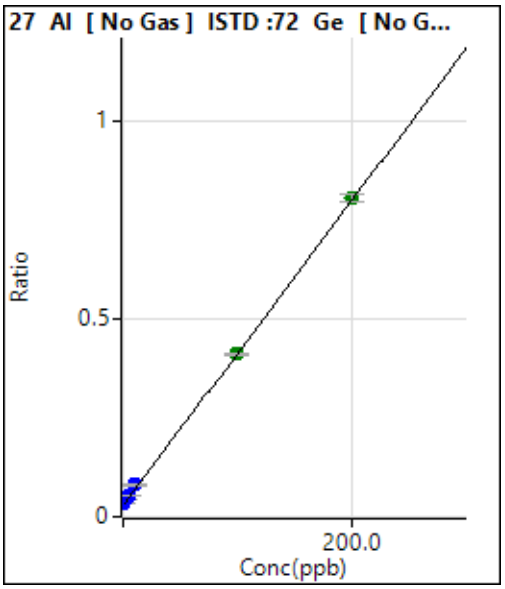
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2170.20	0.0012	P	8.7	
2	☐	200.000	184.407	222028.19	0.1232	P	0.3	-7.8
3	☐	500.000	457.992	534937.61	0.3042	P	2.5	-8.4
4	☐	1000.000	1035.248	1153389.56	0.6861	A	1.3	3.5
5	☐	10000.00	9448.447	10527448.38	6.2517	A	4.4	-5.5
6	☐	20000.00	20275.22	22220910.50	13.4140	A	2.4	1.4

y = 6.6154E-004 * x + 0.0012
R = 0.9995
DL = 0.4765 ppb
BEC = 1.819 ppb

Weight: <None>
Min Conc: <None>

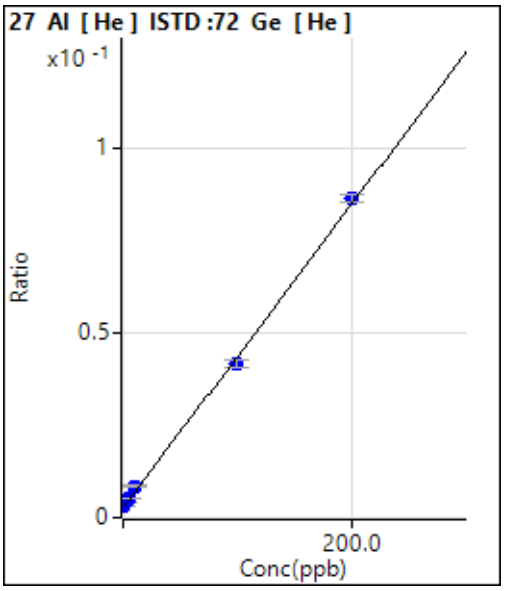


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	177580.38	0.0329	P	3.3	
2	☐	2.000	2.794	241448.79	0.0437	P	8.0	39.7
3	☐	5.000	5.247	301864.31	0.0531	P	4.5	4.9
4	☐	10.000	12.527	439241.42	0.0812	P	3.5	25.3
5	☐	100.000	98.098	2230405.33	0.4113	A	1.2	-1.9
6	☐	200.000	200.811	4215210.46	0.8074	A	2.6	0.4

y = 0.0039 * x + 0.0329
R = 0.9999
DL = 0.8533 ppb
BEC = 8.53 ppb

Weight: <None>
Min Conc: <None>

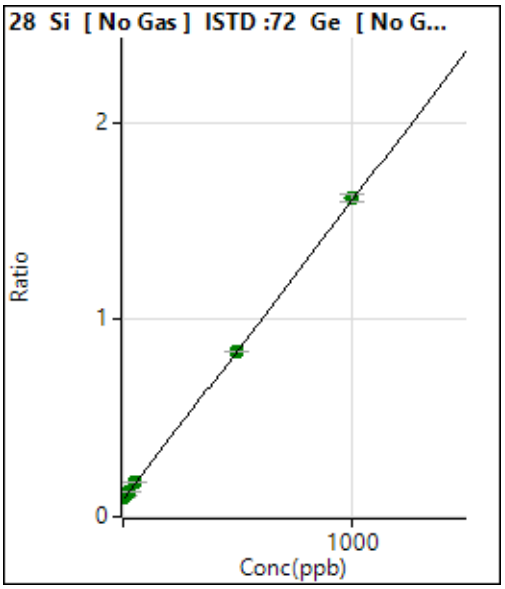
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5554.52	0.0031	P	3.9	
2	☐	2.000	2.471	7372.10	0.0041	P	6.8	23.6
3	☐	5.000	5.629	9473.33	0.0054	P	0.5	12.6
4	☐	10.000	12.926	14090.63	0.0084	P	5.1	29.3
5	☐	100.000	93.881	70000.65	0.0416	P	4.4	-6.1
6	☐	200.000	202.893	142910.80	0.0863	P	2.8	1.4

y = 4.1001E-004 * x + 0.0031
R = 0.9992
DL = 0.8702 ppb
BEC = 7.507 ppb

Weight: <None>
Min Conc: <None>

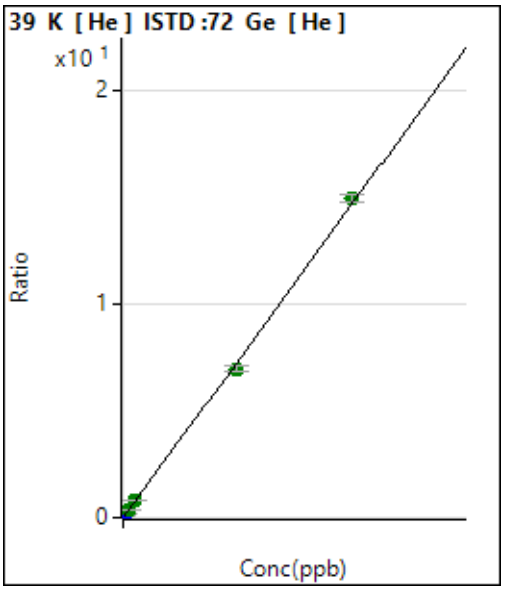


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	513963.77	0.0952	A	3.0	
2	☐	10.000	8.774	600764.95	0.1085	A	4.6	-12.3
3	☐	25.000	20.156	714774.96	0.1258	A	2.2	-19.4
4	☐	50.000	51.822	939971.76	0.1738	A	2.9	3.6
5	☐	500.000	489.408	4539963.37	0.8371	A	0.6	-2.1
6	☐	1000.000	1005.338	8452635.08	1.6191	A	2.5	0.5

y = 0.0015 * x + 0.0952
R = 0.9999
DL = 5.721 ppb
BEC = 62.83 ppb

Weight: <None>
Min Conc: <None>

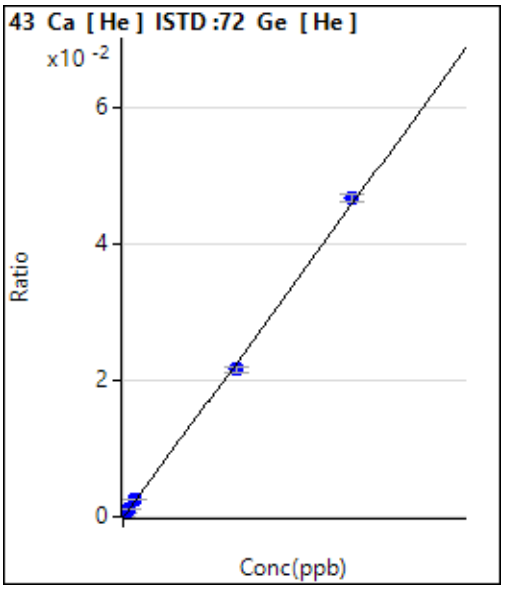
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124399.33	0.0689	P	1.8	
2	☐	200.000	186.136	370738.41	0.2057	P	0.8	-6.9
3	☐	500.000	450.852	703895.02	0.4002	A	2.3	-9.8
4	☐	1000.000	1040.572	1401457.06	0.8336	A	0.3	4.1
5	☐	10000.00	9405.403	11756917.74	6.9809	A	3.3	-5.9
6	☐	20000.00	20296.63	24821081.30	14.9848	A	2.5	1.5

y = 7.3489E-004 * x + 0.0689
R = 0.9994
DL = 5.023 ppb
BEC = 93.79 ppb

Weight: <None>
Min Conc: <None>

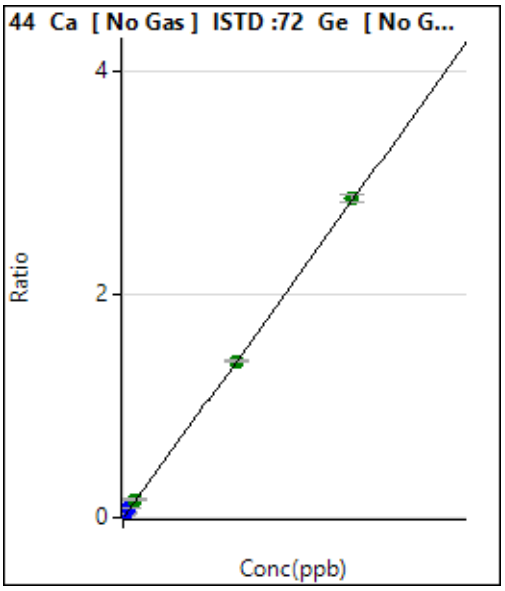


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	123.34	0.0001	P	77.1	
2	☐	200.000	201.426	960.05	0.0005	P	12.9	0.7
3	☐	500.000	432.769	1873.49	0.0011	P	9.6	-13.4
4	☐	1000.000	1056.165	4207.38	0.0025	P	5.5	5.6
5	☐	10000.00	9357.228	36391.45	0.0216	P	4.0	-6.4
6	☐	20000.00	20320.24	77599.27	0.0468	P	2.1	1.6

y = 2.3020E-006 * x + 6.8961E-005
R = 0.9993
DL = 69.26 ppb
BEC = 29.96 ppb

Weight: <None>
Min Conc: <None>

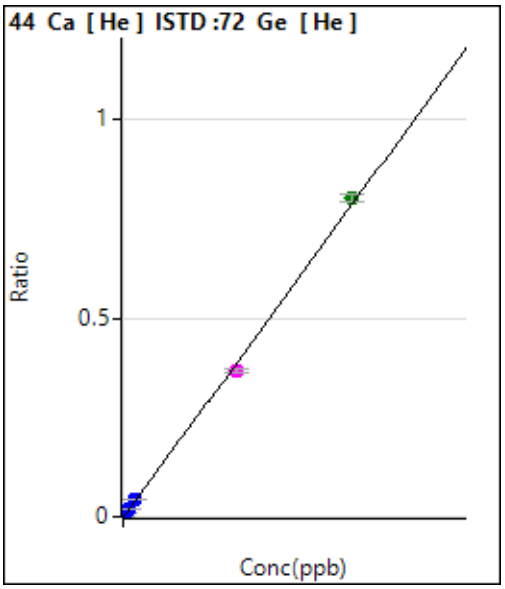
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55624.40	0.0103	P	4.1	
2	☐	200.000	225.406	233972.54	0.0423	P	7.4	12.7
3	☐	500.000	505.635	466401.96	0.0821	P	4.5	1.1
4	☐	1000.000	1057.817	867753.06	0.1605	A	5.0	5.8
5	☐	10000.00	9818.487	7616608.01	1.4044	A	1.0	-1.8
6	☐	20000.00	20087.47	14943268.95	2.8624	A	2.7	0.4

y = 1.4198E-004 * x + 0.0103
R = 0.9999
DL = 9.036 ppb
BEC = 72.62 ppb

Weight: <None>
Min Conc: <None>

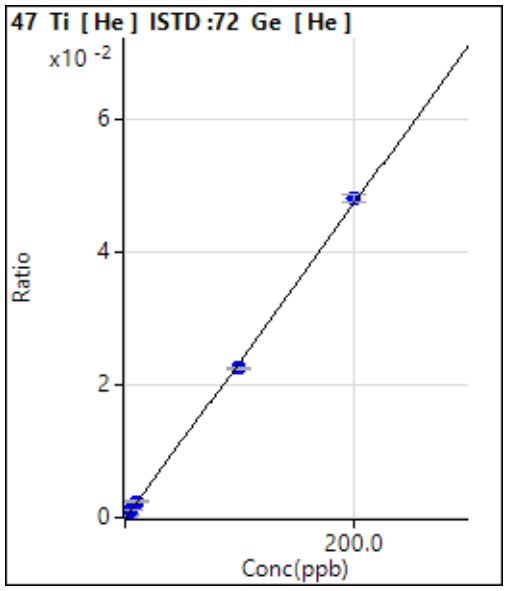


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2456.93	0.0014	P	4.9	
2	☐	200.000	188.960	15855.95	0.0088	P	3.9	-5.5
3	☐	500.000	452.577	33717.87	0.0192	P	3.6	-9.5
4	☐	1000.000	1033.089	70659.63	0.0420	P	1.3	3.3
5	☐	10000.00	9300.883	618795.28	0.3674	M	3.7	-7.0
6	☐	20000.00	20349.20	1328904.04	0.8023	A	2.4	1.7

y = 3.9359E-005 * x + 0.0014
R = 0.9991
DL = 5.061 ppb
BEC = 34.59 ppb

Weight: <None>
Min Conc: <None>

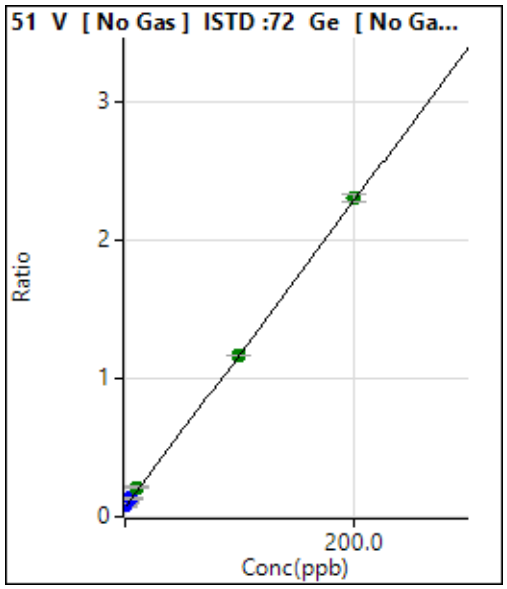
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.2	
2	☐	2.000	1.760	763.37	0.0004	P	11.0	-12.0
3	☐	5.000	4.680	1963.51	0.0011	P	14.2	-6.4
4	☐	10.000	10.056	4020.68	0.0024	P	6.1	0.6
5	☐	100.000	94.768	37938.85	0.0225	P	1.8	-5.2
6	☐	200.000	202.624	79761.71	0.0482	P	1.9	1.3

y = 2.3761E-004 * x + 5.4644E-006
R = 0.9995
DL = 0.06845 ppb
BEC = 0.023 ppb

Weight: <None>
Min Conc: <None>

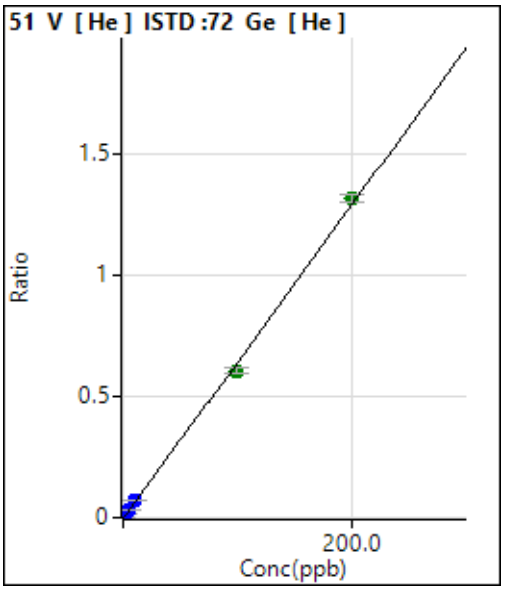


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	431881.63	0.0802	P	10.7	
2	☐	2.000	2.556	598867.20	0.1084	P	10.9	27.8
3	☐	5.000	4.843	759592.39	0.1337	P	6.6	-3.1
4	☐	10.000	11.678	1131247.23	0.2093	A	6.1	16.8
5	☐	100.000	97.696	6294913.08	1.1606	A	0.2	-2.3
6	☐	200.000	201.066	12026628.70	2.3038	A	3.0	0.5

y = 0.0111 * x + 0.0802
R = 0.9999
DL = 2.334 ppb
BEC = 7.25 ppb

Weight: <None>
Min Conc: <None>

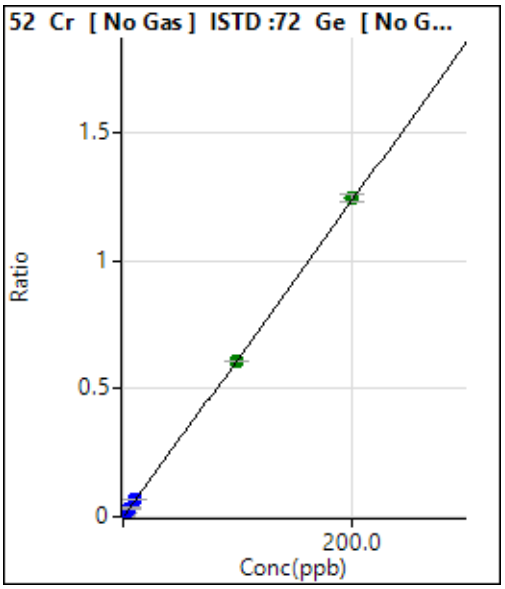
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3674.95	0.0020	P	1.6	
2	☐	2.000	1.800	24640.86	0.0137	P	1.3	-10.0
3	☐	5.000	4.522	54971.84	0.0313	P	4.4	-9.6
4	☐	10.000	10.368	116099.70	0.0690	P	0.7	3.7
5	☐	100.000	93.473	1020928.81	0.6062	A	3.3	-6.5
6	☐	200.000	203.259	2179392.62	1.3158	A	2.7	1.6

y = 0.0065 * x + 0.0020
R = 0.9993
DL = 0.01505 ppb
BEC = 0.3149 ppb

Weight: <None>
Min Conc: <None>

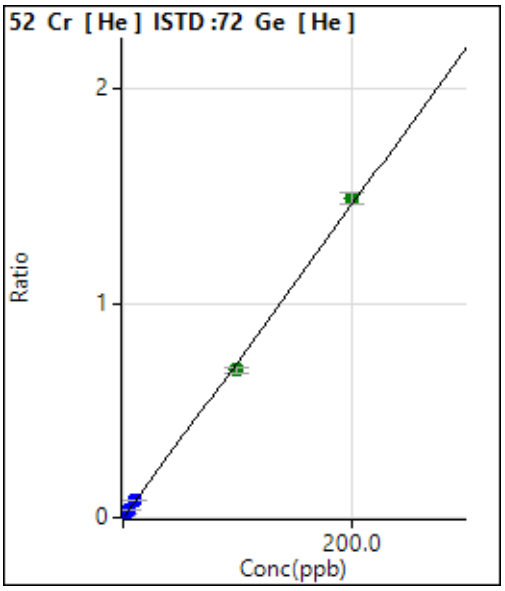


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20755.87	0.0039	P	9.1	
2	☐	2.000	2.115	93488.99	0.0169	P	9.5	5.8
3	☐	5.000	4.732	187950.20	0.0331	P	5.0	-5.4
4	☐	10.000	10.551	373277.69	0.0690	P	4.4	5.5
5	☐	100.000	97.979	3304114.53	0.6092	A	0.7	-2.0
6	☐	200.000	200.989	6502829.07	1.2457	A	3.0	0.5

y = 0.0062 * x + 0.0039
R = 0.9999
DL = 0.1693 ppb
BEC = 0.6234 ppb

Weight: <None>
Min Conc: <None>

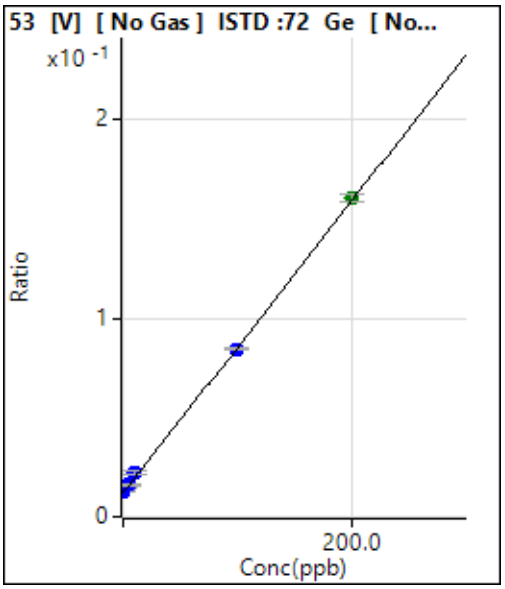
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10053.83	0.0056	P	5.2	
2	☐	2.000	1.824	34068.93	0.0189	P	0.8	-8.8
3	☐	5.000	4.631	69306.78	0.0394	P	3.8	-7.4
4	☐	10.000	10.568	139201.90	0.0828	P	1.3	5.7
5	☐	100.000	93.496	1160042.51	0.6888	A	3.4	-6.5
6	☐	200.000	203.234	2469095.17	1.4907	A	3.0	1.6

y = 0.0073 * x + 0.0056
R = 0.9993
DL = 0.1185 ppb
BEC = 0.7623 ppb

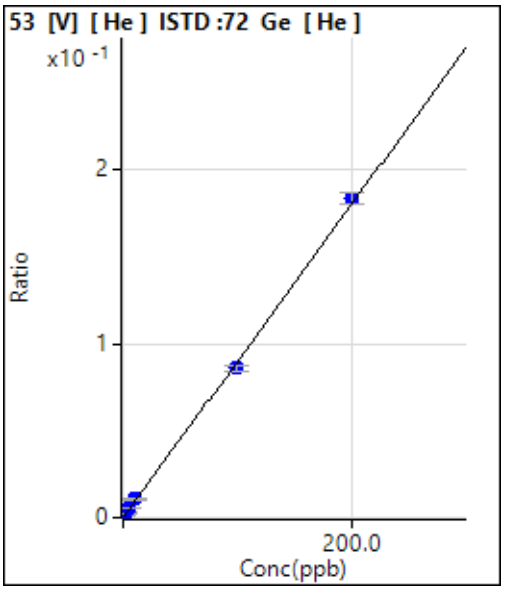
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68972.27	0.0128	P	10.4	
2	☐	2.000	3.195	83669.23	0.0152	P	11.1	59.7
3	☐	5.000	4.696	92317.41	0.0163	P	8.2	-6.1
4	☐	10.000	12.944	120639.06	0.0223	P	6.8	29.4
5	☐	100.000	97.615	459025.63	0.0846	P	0.4	-2.4
6	☐	200.000	201.041	839074.44	0.1607	A	2.8	0.5

y = 7.3580E-004 * x + 0.0128
R = 0.9998
DL = 5.433 ppb
BEC = 17.4 ppb

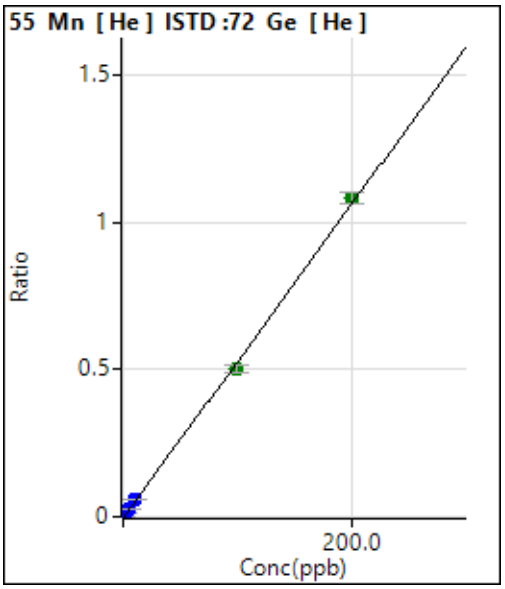
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1636.80	0.0009	P	6.7	
2	☐	2.000	2.057	4970.99	0.0028	P	2.9	2.9
3	☐	5.000	4.734	9086.48	0.0052	P	4.5	-5.3
4	☐	10.000	10.716	17748.39	0.0106	P	1.4	7.2
5	☐	100.000	94.353	144580.46	0.0859	P	3.7	-5.6
6	☐	200.000	202.794	303876.26	0.1835	P	3.4	1.4

y = 9.0031E-004 * x + 9.0590E-004
R = 0.9994
DL = 0.2022 ppb
BEC = 1.006 ppb

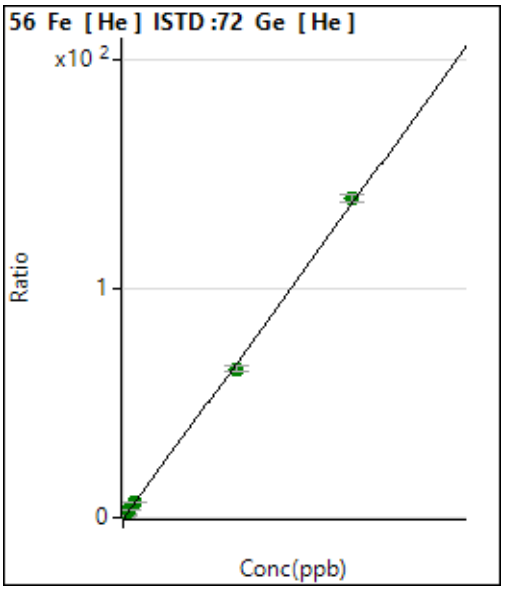
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	953.38	0.0005	P	13.2	
2	☐	2.000	1.851	18763.02	0.0104	P	3.0	-7.4
3	☐	5.000	4.520	43365.21	0.0247	P	3.9	-9.6
4	☐	10.000	10.390	94163.40	0.0560	P	0.8	3.9
5	☐	100.000	94.113	846978.24	0.5030	A	4.2	-5.9
6	☐	200.000	202.938	1795214.50	1.0839	A	3.3	1.5

y = 0.0053 * x + 5.2873E-004
R = 0.9994
DL = 0.03919 ppb
BEC = 0.09904 ppb

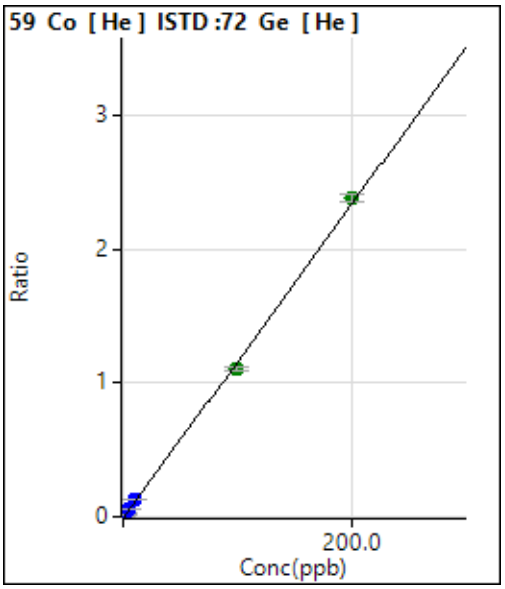
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24996.37	0.0138	P	1.4	
2	☐	200.000	182.813	2295384.34	1.2737	A	2.0	-8.6
3	☐	500.000	452.948	5513428.04	3.1352	A	3.0	-9.4
4	☐	1000.000	1029.279	11947450.66	7.1069	A	0.2	2.9
5	☐	10000.00	9446.866	109651095.0	65.1151	A	4.2	-5.5
6	☐	20000.00	20276.45	231461823.2	139.745	A	2.7	1.4

y = 0.0069 * x + 0.0138
R = 0.9995
DL = 0.08714 ppb
BEC = 2.009 ppb

Weight: <None>
Min Conc: <None>

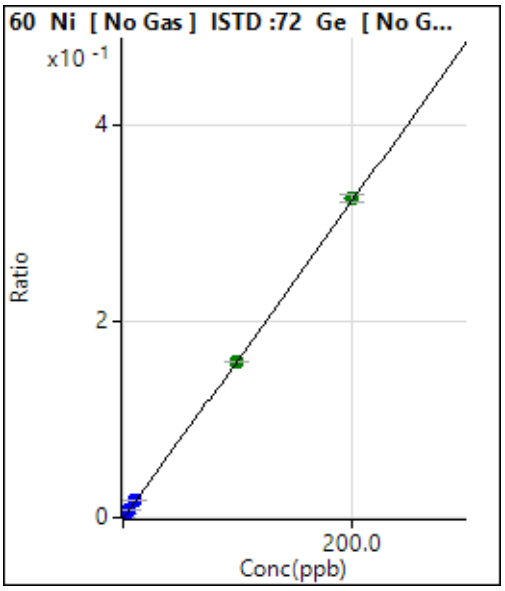


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	55.7	
2	☐	2.000	1.856	39266.20	0.0218	P	2.6	-7.2
3	☐	5.000	4.579	94466.03	0.0537	P	2.7	-8.4
4	☐	10.000	10.450	206013.82	0.1226	P	0.5	4.5
5	☐	100.000	93.861	1853412.63	1.1005	A	3.0	-6.1
6	☐	200.000	203.059	3943199.52	2.3807	A	2.9	1.5

y = 0.0117 * x + 3.1622E-005
R = 0.9993
DL = 0.004507 ppb
BEC = 0.002697 ppb

Weight: <None>
Min Conc: <None>

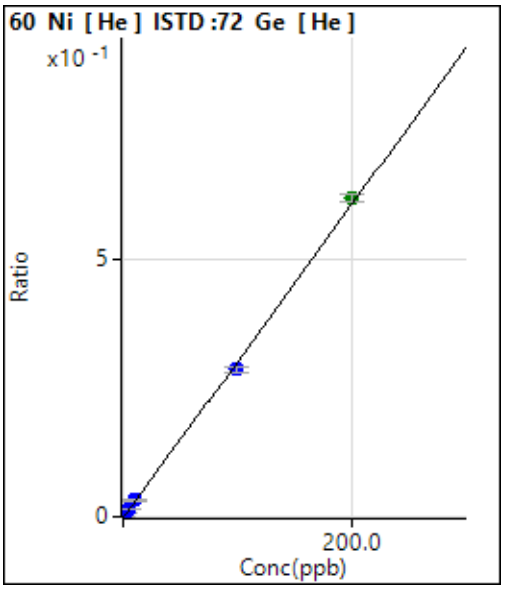
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1763.48	0.0003	P	6.3	
2	☐	2.000	2.064	20278.46	0.0037	P	8.3	3.2
3	☐	5.000	4.706	45144.69	0.0079	P	5.7	-5.9
4	☐	10.000	10.526	93922.72	0.0174	P	4.6	5.3
5	☐	100.000	97.934	861888.66	0.1589	A	0.6	-2.1
6	☐	200.000	201.013	1701047.99	0.3258	A	2.4	0.5

y = 0.0016 * x + 3.2687E-004
R = 0.9999
DL = 0.03811 ppb
BEC = 0.2019 ppb

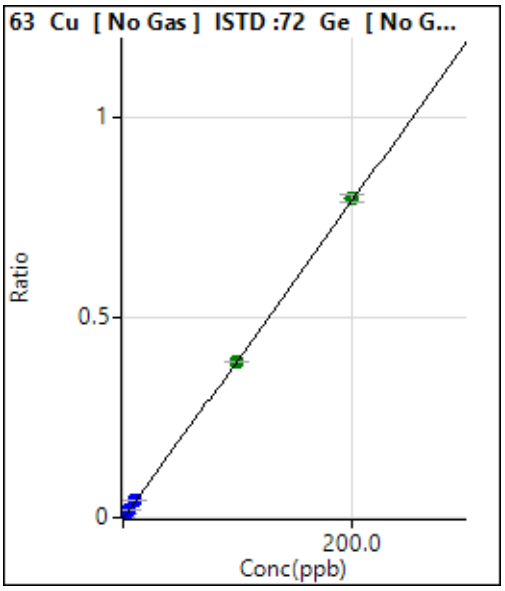
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	830.04	0.0005	P	9.6	
2	☐	2.000	1.911	11301.47	0.0063	P	3.8	-4.4
3	☐	5.000	4.524	24989.71	0.0142	P	5.6	-9.5
4	☐	10.000	10.338	53580.94	0.0319	P	2.3	3.4
5	☐	100.000	93.579	479937.05	0.2850	P	3.1	-6.4
6	☐	200.000	203.206	1024075.61	0.6182	A	2.2	1.6

y = 0.0030 * x + 4.6013E-004
R = 0.9993
DL = 0.04355 ppb
BEC = 0.1514 ppb

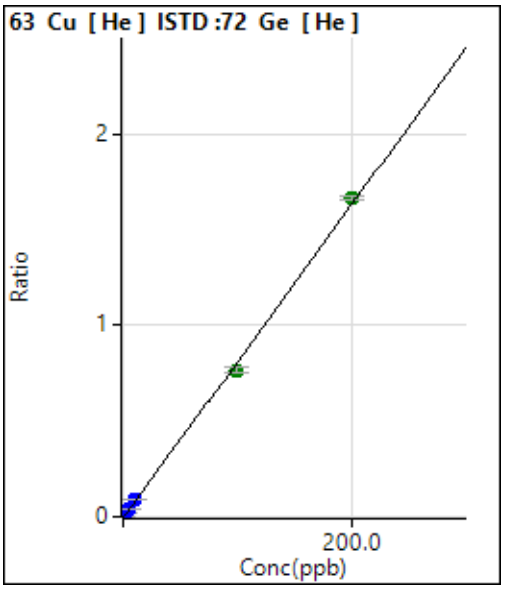
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4267.40	0.0008	P	11.4	
2	☐	2.000	2.127	51031.76	0.0092	P	8.6	6.4
3	☐	5.000	4.752	111667.80	0.0197	P	3.3	-5.0
4	☐	10.000	10.655	232998.11	0.0431	P	3.7	6.5
5	☐	100.000	97.977	2114060.86	0.3898	A	0.5	-2.0
6	☐	200.000	200.983	4170166.40	0.7987	A	1.9	0.5

y = 0.0040 * x + 7.8786E-004
R = 0.9999
DL = 0.06781 ppb
BEC = 0.1984 ppb

Weight: <None>
Min Conc: <None>

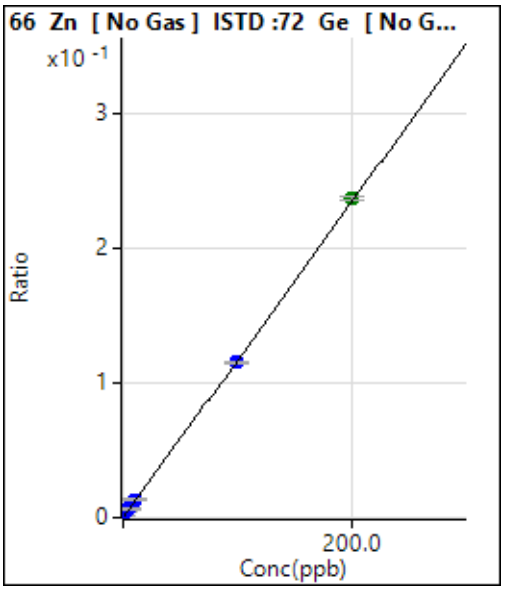


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2176.88	0.0012	P	7.1	
2	☐	2.000	1.863	29709.00	0.0165	P	1.0	-6.9
3	☐	5.000	4.542	67649.48	0.0385	P	2.4	-9.2
4	☐	10.000	10.547	147506.96	0.0877	P	2.0	5.5
5	☐	100.000	93.545	1294257.82	0.7685	A	3.4	-6.5
6	☐	200.000	203.213	2763281.21	1.6681	A	1.7	1.6

y = 0.0082 * x + 0.0012
R = 0.9993
DL = 0.03149 ppb
BEC = 0.1472 ppb

Weight: <None>
Min Conc: <None>

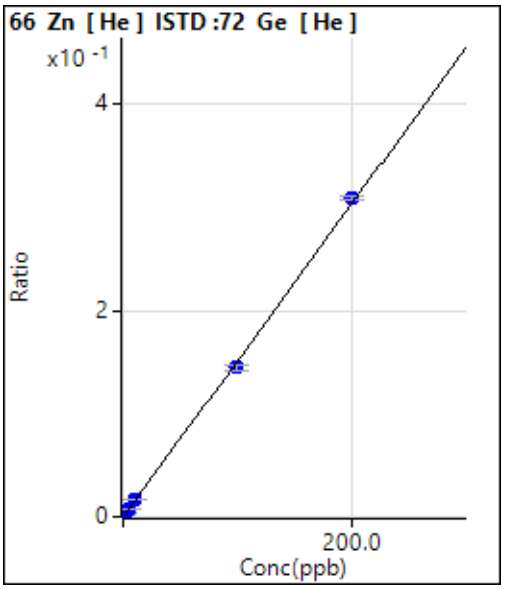
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5544.57	0.0010	P	1.7	
2	☐	2.000	2.257	20322.06	0.0037	P	5.1	12.8
3	☐	5.000	4.655	36839.81	0.0065	P	3.3	-6.9
4	☐	10.000	10.585	72649.78	0.0134	P	4.8	5.9
5	☐	100.000	97.366	624750.02	0.1152	P	1.3	-2.6
6	☐	200.000	201.294	1237706.94	0.2371	A	1.6	0.6

y = 0.0012 * x + 0.0010
R = 0.9999
DL = 0.04411 ppb
BEC = 0.8749 ppb

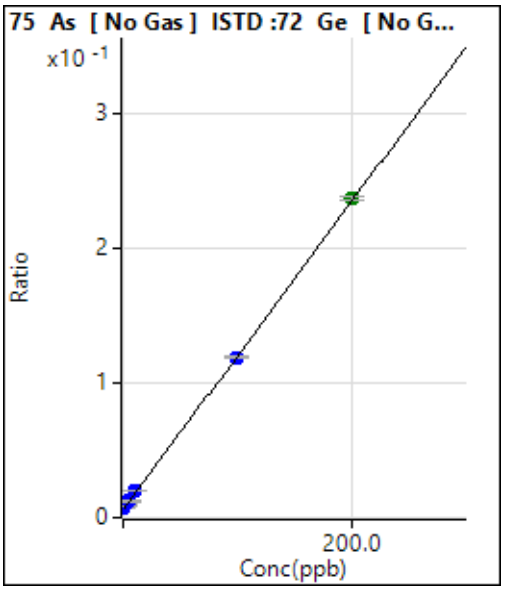
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2306.90	0.0013	P	3.9	
2	☐	2.000	1.963	7675.59	0.0043	P	4.4	-1.9
3	☐	5.000	4.568	14451.20	0.0082	P	3.3	-8.6
4	☐	10.000	10.472	28890.71	0.0172	P	1.7	4.7
5	☐	100.000	94.337	243517.87	0.1446	P	3.2	-5.7
6	☐	200.000	202.819	512545.81	0.3094	P	1.7	1.4

y = 0.0015 * x + 0.0013
R = 0.9994
DL = 0.09784 ppb
BEC = 0.8414 ppb

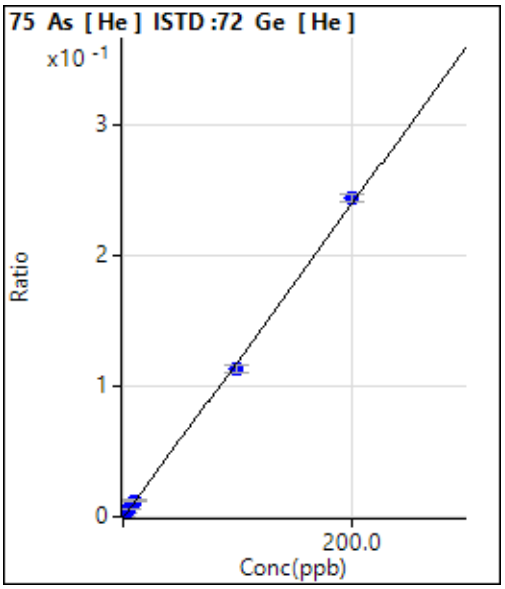
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38247.36	0.0071	P	9.3	
2	☐	2.000	2.173	52932.76	0.0096	P	10.2	8.7
3	☐	5.000	4.622	70334.09	0.0124	P	5.4	-7.6
4	☐	10.000	11.337	108397.63	0.0201	P	5.7	13.4
5	☐	100.000	97.969	645870.76	0.1191	P	2.0	-2.0
6	☐	200.000	200.956	1236579.54	0.2368	A	1.2	0.5

y = 0.0011 * x + 0.0071
R = 0.9999
DL = 1.727 ppb
BEC = 6.21 ppb

Weight: <None>
Min Conc: <None>

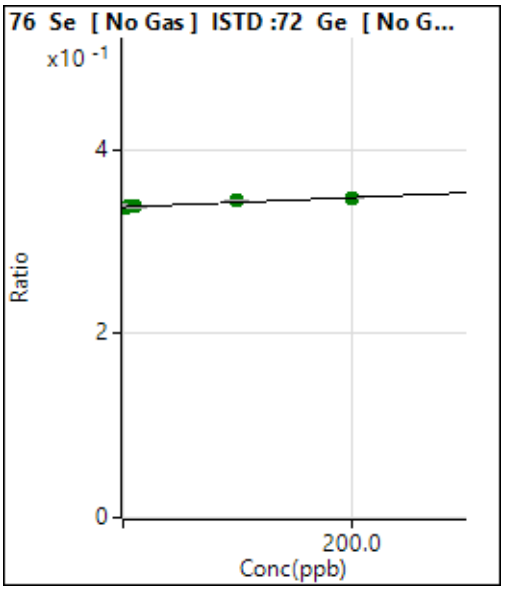


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	382.23	0.0002	P	2.7	
2	☐	2.000	1.853	4394.06	0.0024	P	1.7	-7.3
3	☐	5.000	4.603	10098.22	0.0057	P	2.3	-7.9
4	☐	10.000	10.136	20824.81	0.0124	P	1.9	1.4
5	☐	100.000	93.978	190477.60	0.1131	P	4.7	-6.0
6	☐	200.000	203.016	404376.76	0.2441	P	1.8	1.5

y = 0.0012 * x + 2.1167E-004
R = 0.9994
DL = 0.01447 ppb
BEC = 0.1762 ppb

Weight: <None>
Min Conc: <None>

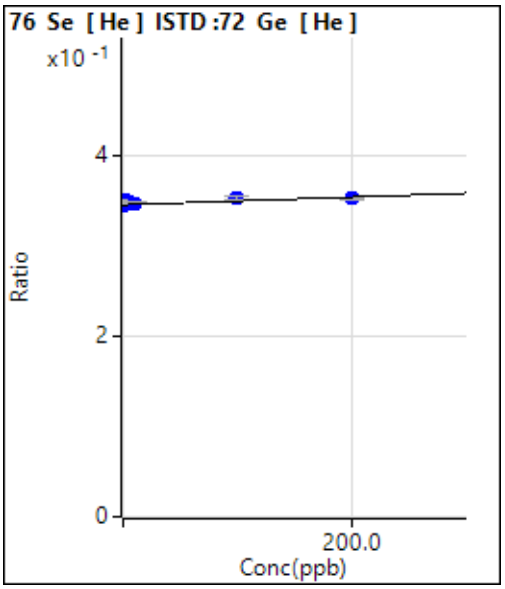
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1822160.44	0.3374	A	0.3	
2	☐	2.000	-30.542	1860971.79	0.3358	A	1.1	-1627.1
3	☐	5.000	15.879	1921891.69	0.3382	A	1.1	217.6
4	☐	10.000	6.063	1827572.11	0.3377	A	1.0	-39.4
5	☐	100.000	134.464	1867752.63	0.3444	A	0.4	34.5
6	☐	200.000	183.019	1811407.47	0.3469	A	0.5	-8.5

y = 5.2096E-005 * x + 0.3374
R = 0.9634
DL = 65.17 ppb
BEC = 6476 ppb

Weight: <None>
Min Conc: <None>

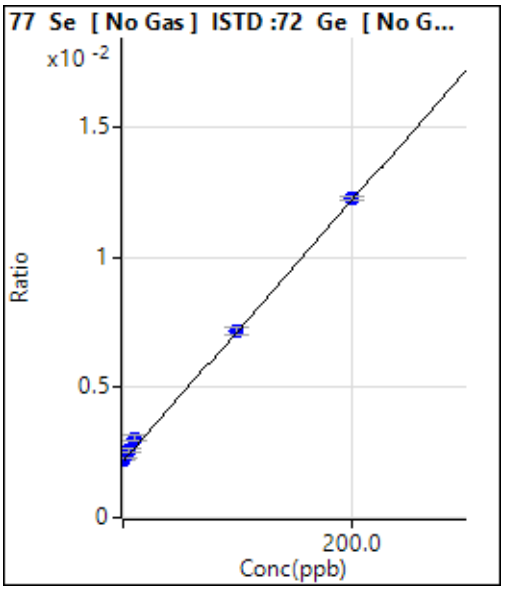


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	622887.87	0.3450	P	0.6	
2	☐	2.000	110.805	630457.05	0.3498	P	0.6	5440.2
3	☐	5.000	88.803	613623.36	0.3489	P	0.6	1676.1
4	☐	10.000	36.543	582689.43	0.3466	P	0.5	265.4
5	☐	100.000	175.757	594072.84	0.3526	P	1.1	75.8
6	☐	200.000	157.611	582929.21	0.3519	P	0.9	-21.2

y = 4.3448E-005 * x + 0.3450
R = 0.7205
DL = 140.3 ppb
BEC = 7940 ppb

Weight: <None>
Min Conc: <None>

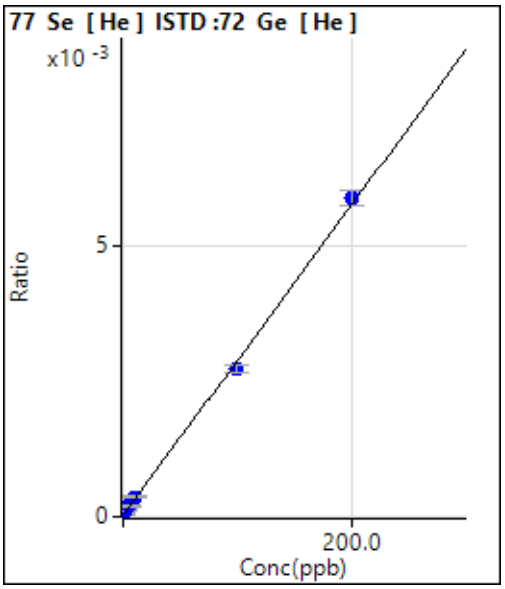
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12085.58	0.0022	P	5.1	
2	☐	2.000	2.955	13203.29	0.0024	P	8.5	47.8
3	☐	5.000	6.515	14578.02	0.0026	P	6.1	30.3
4	☐	10.000	16.368	16520.35	0.0031	P	8.8	63.7
5	☐	100.000	98.031	38765.38	0.0071	P	4.0	-2.0
6	☐	200.000	200.619	64154.17	0.0123	P	1.0	0.3

y = 5.0073E-005 * x + 0.0022
R = 0.9995
DL = 6.808 ppb
BEC = 44.75 ppb

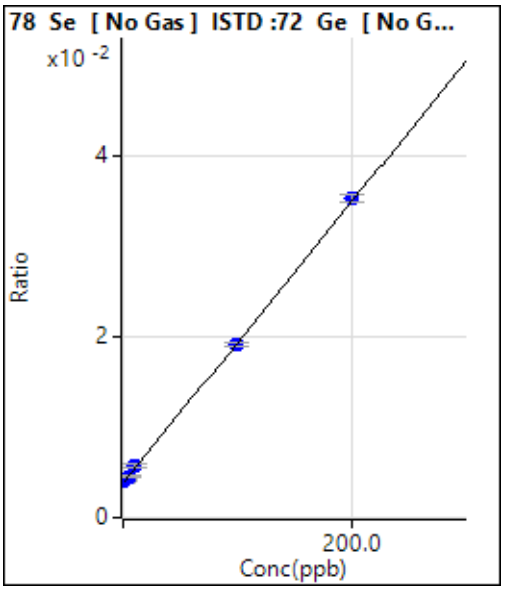
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0001	P	31.2	
2	☐	2.000	2.128	213.34	0.0001	P	17.8	6.4
3	☐	5.000	4.947	350.01	0.0002	P	21.5	-1.1
4	☐	10.000	10.746	613.36	0.0004	P	14.1	7.5
5	☐	100.000	93.249	4607.53	0.0027	P	6.0	-6.8
6	☐	200.000	203.338	9777.00	0.0059	P	4.8	1.7

y = 2.8735E-005 * x + 5.7237E-005
R = 0.9992
DL = 1.862 ppb
BEC = 1.992 ppb

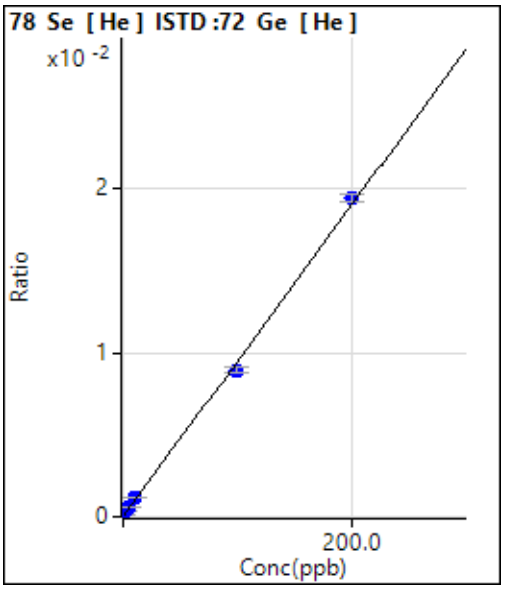
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21750.89	0.0040	P	8.4	
2	☐	2.000	1.023	23243.56	0.0042	P	3.2	-48.9
3	☐	5.000	3.168	25737.85	0.0045	P	3.2	-36.6
4	☐	10.000	10.867	30952.18	0.0057	P	5.0	8.7
5	☐	100.000	97.206	103817.48	0.0191	P	2.9	-2.8
6	☐	200.000	201.409	184490.12	0.0353	P	2.6	0.7

y = 1.5541E-004 * x + 0.0040
R = 0.9998
DL = 6.54 ppb
BEC = 25.98 ppb

Weight: <None>
Min Conc: <None>

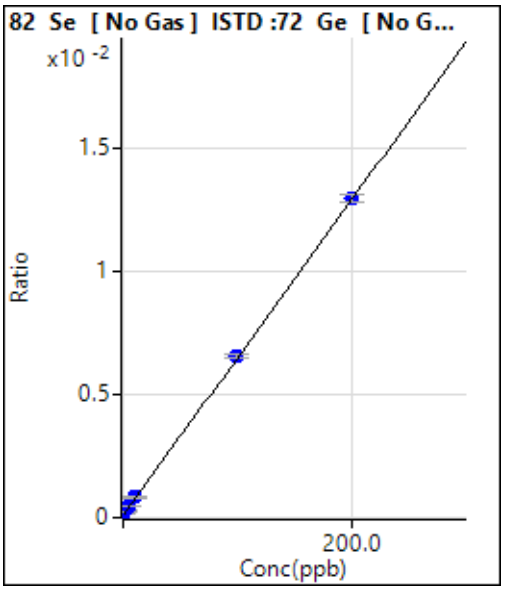


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	212.00	0.0001	P	11.3	
2	☐	2.000	2.132	576.68	0.0003	P	2.7	6.6
3	☐	5.000	4.715	994.04	0.0006	P	7.5	-5.7
4	☐	10.000	10.658	1900.81	0.0011	P	2.1	6.6
5	☐	100.000	92.969	15075.02	0.0090	P	4.9	-7.0
6	☐	200.000	203.488	32230.00	0.0195	P	1.9	1.7

y = 9.5036E-005 * x + 1.1739E-004
R = 0.9991
DL = 0.4202 ppb
BEC = 1.235 ppb

Weight: <None>
Min Conc: <None>

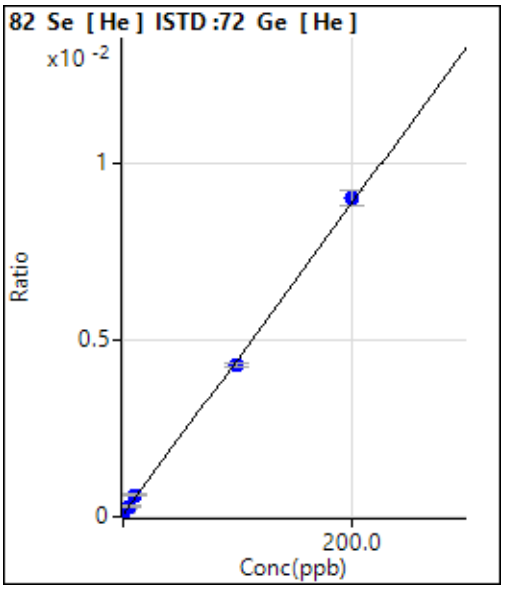
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	856.71	0.0002	P	21.8	
2	☐	2.000	1.997	1586.79	0.0003	P	16.5	-0.2
3	☐	5.000	4.887	2690.32	0.0005	P	8.3	-2.3
4	☐	10.000	10.551	4527.52	0.0008	P	3.8	5.5
5	☐	100.000	100.203	35767.49	0.0066	P	2.7	0.2
6	☐	200.000	199.874	67856.14	0.0130	P	2.7	-0.1

y = 6.4231E-005 * x + 1.5970E-004
R = 1.0000
DL = 1.625 ppb
BEC = 2.486 ppb

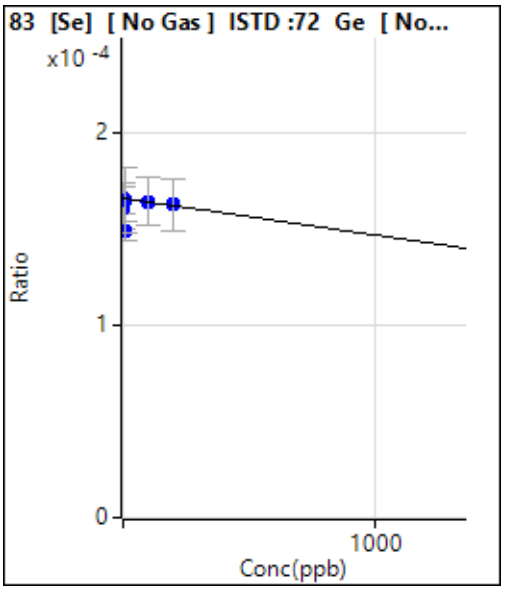
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	206.67	0.0001	P	33.7	
2	☐	2.000	2.535	406.68	0.0002	P	24.2	26.7
3	☐	5.000	4.097	516.68	0.0003	P	13.8	-18.1
4	☐	10.000	11.372	1030.06	0.0006	P	6.6	13.7
5	☐	100.000	94.789	7202.07	0.0043	P	1.9	-5.2
6	☐	200.000	202.554	14915.15	0.0090	P	4.3	1.3

y = 4.3902E-005 * x + 1.1420E-004
R = 0.9995
DL = 2.63 ppb
BEC = 2.601 ppb

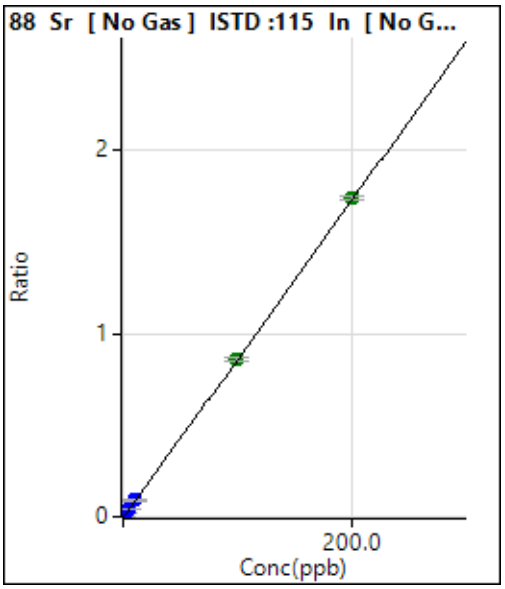
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	9.2	
2	☐	2.000	263.709	890.04	0.0002	P	13.7	13085.
3	☐	5.000	883.835	850.04	0.0001	P	6.5	17576.
4	☐	10.000	54.109	896.71	0.0002	P	20.9	441.1
5	☐	100.000	82.660	893.38	0.0002	P	14.8	-17.3
6	☐	200.000	181.877	850.04	0.0002	P	17.0	-9.1

y = -1.9104E-008 * x + 1.6638E-004
R = 0.2045
DL = -2412 ppb
BEC = -8709 ppb

Weight: <None>
Min Conc: <None>

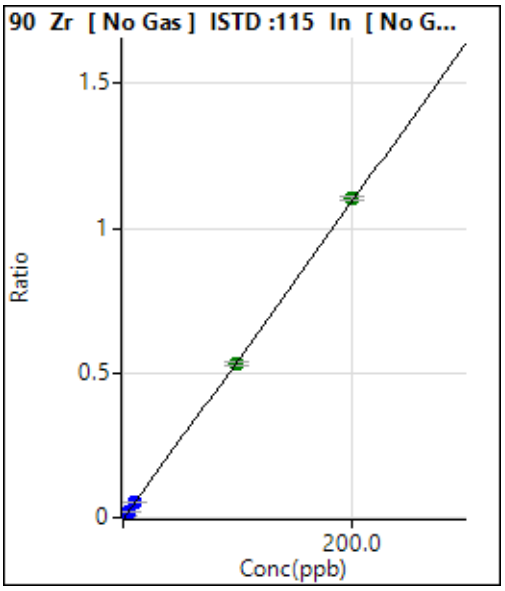


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7722.31	0.0012	P	6.2	
2	☐	2.000	2.075	127668.78	0.0192	P	7.5	3.8
3	☐	5.000	4.698	287795.00	0.0419	P	2.9	-6.0
4	☐	10.000	10.386	596684.06	0.0912	P	5.5	3.9
5	☐	100.000	98.788	5594276.17	0.8575	A	3.2	-1.2
6	☐	200.000	200.593	10942485.67	1.7399	A	1.3	0.3

y = 0.0087 * x + 0.0012
R = 1.0000
DL = 0.02537 ppb
BEC = 0.1372 ppb

Weight: <None>
Min Conc: <None>

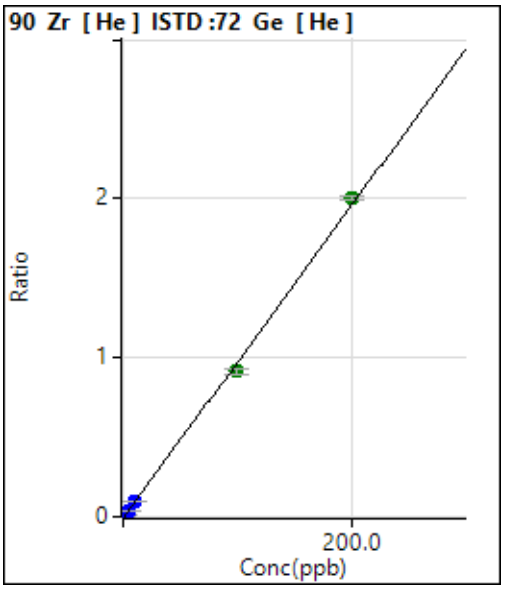
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1566.79	0.0002	P	12.2	
2	☐	2.000	1.696	63482.42	0.0095	P	8.1	-15.2
3	☐	5.000	4.025	153191.64	0.0223	P	4.4	-19.5
4	☐	10.000	9.425	339553.88	0.0519	P	6.0	-5.7
5	☐	100.000	97.496	3489139.11	0.5348	A	2.6	-2.5
6	☐	200.000	201.308	6942815.94	1.1039	A	1.0	0.7

y = 0.0055 * x + 2.4133E-004
R = 0.9999
DL = 0.01614 ppb
BEC = 0.04402 ppb

Weight: <None>
Min Conc: <None>

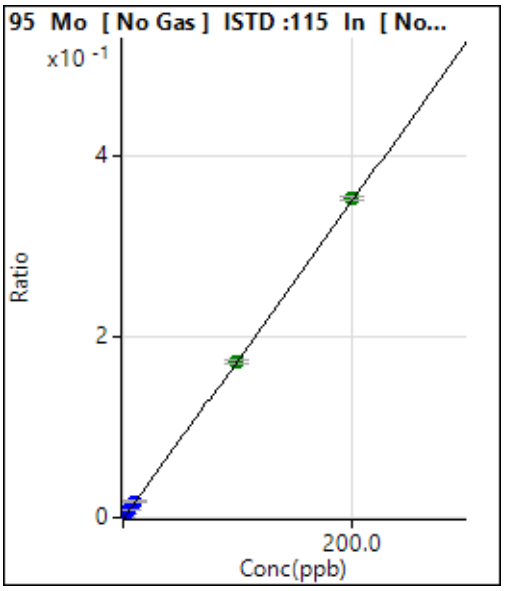


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1966.84	0.0011	P	8.0	
2	☐	2.000	1.524	28971.47	0.0161	P	1.6	-23.8
3	☐	5.000	3.948	70195.51	0.0399	P	3.3	-21.0
4	☐	10.000	9.544	159660.10	0.0950	P	1.2	-4.6
5	☐	100.000	92.752	1538008.63	0.9133	A	4.0	-7.2
6	☐	200.000	203.678	3320237.14	2.0042	A	1.5	1.8

y = 0.0098 * x + 0.0011
R = 0.9991
DL = 0.02651 ppb
BEC = 0.1109 ppb

Weight: <None>
Min Conc: <None>

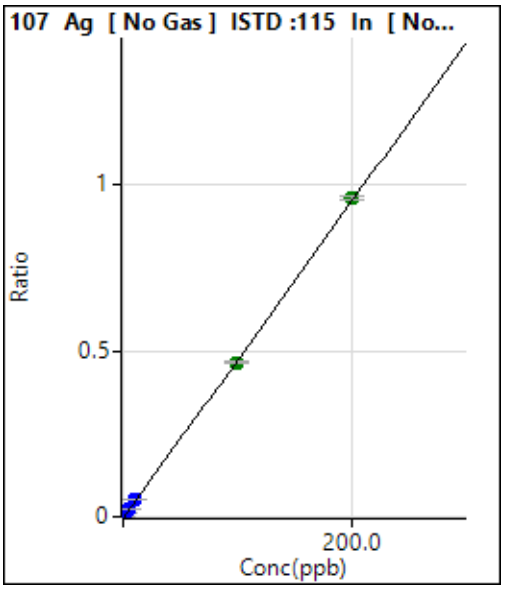
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0000	P	30.6	
2	☐	2.000	2.030	23874.87	0.0036	P	8.9	1.5
3	☐	5.000	4.545	54928.77	0.0080	P	2.2	-9.1
4	☐	10.000	10.069	115701.19	0.0177	P	4.6	0.7
5	☐	100.000	97.840	1119586.65	0.1716	A	2.9	-2.2
6	☐	200.000	201.088	2217961.22	0.3527	A	0.7	0.5

y = 0.0018 * x + 2.7965E-005
R = 0.9999
DL = 0.01462 ppb
BEC = 0.01595 ppb

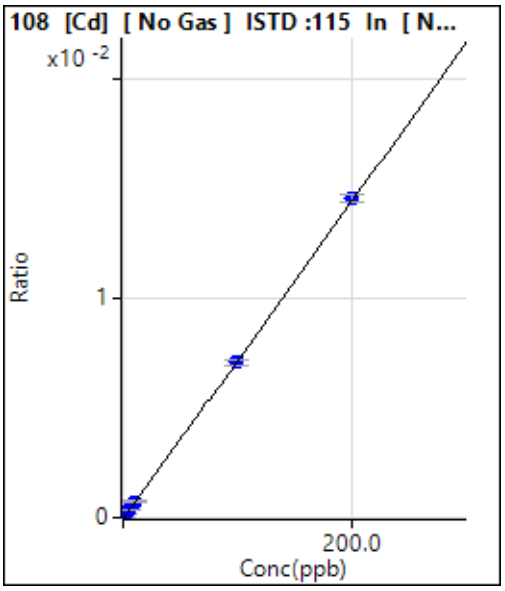
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453.35	0.0001	P	7.4	
2	☐	2.000	2.123	67878.94	0.0102	P	6.8	6.1
3	☐	5.000	4.744	155857.01	0.0227	P	3.1	-5.1
4	☐	10.000	10.611	331521.32	0.0507	P	5.4	6.1
5	☐	100.000	97.527	3035506.20	0.4652	A	1.8	-2.5
6	☐	200.000	201.211	6035362.62	0.9596	A	1.6	0.6

y = 0.0048 * x + 6.9598E-005
R = 0.9999
DL = 0.003242 ppb
BEC = 0.01459 ppb

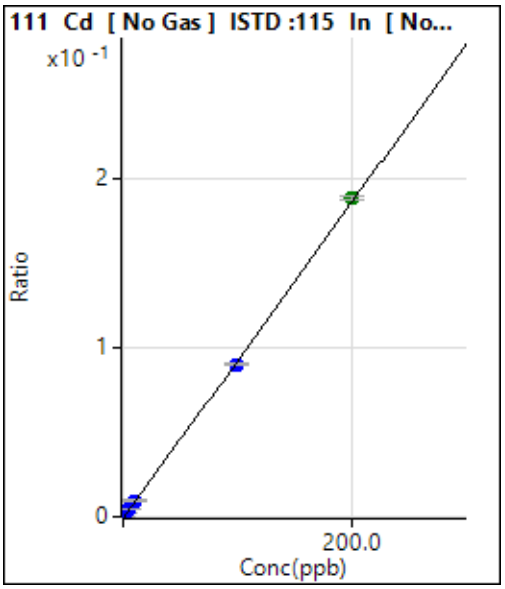
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	92.0	
2	☐	2.000	1.897	930.05	0.0001	P	6.9	-5.1
3	☐	5.000	4.697	2346.91	0.0003	P	12.1	-6.1
4	☐	10.000	10.153	4804.30	0.0007	P	14.0	1.5
5	☐	100.000	97.759	46106.62	0.0071	P	3.1	-2.2
6	☐	200.000	201.121	91411.79	0.0145	P	2.9	0.6

y = 7.2264E-005 * x + 2.4976E-006
R = 0.9999
DL = 0.09539 ppb
BEC = 0.03456 ppb

Weight: <None>
Min Conc: <None>

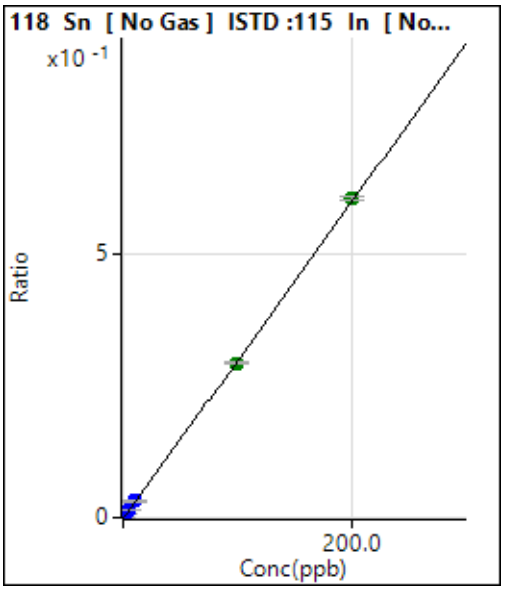


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.78	0.0000	P	381.4	
2	☐	2.000	2.118	13183.10	0.0020	P	6.5	5.9
3	☐	5.000	4.551	29193.18	0.0043	P	5.9	-9.0
4	☐	10.000	10.307	63006.19	0.0096	P	4.2	3.1
5	☐	100.000	96.261	586719.59	0.0899	P	1.5	-3.7
6	☐	200.000	201.864	1185717.47	0.1885	A	1.7	0.9

y = 9.3397E-004 * x + 1.5475E-006
R = 0.9997
DL = 0.01896 ppb
BEC = 0.001657 ppb

Weight: <None>
Min Conc: <None>

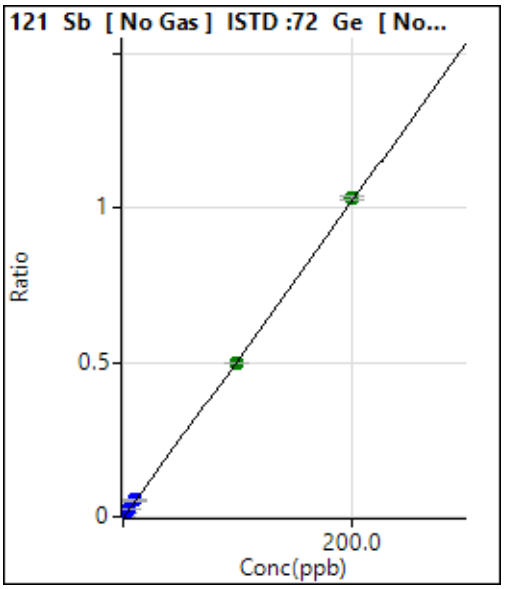
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4490.86	0.0007	P	7.2	
2	☐	2.000	2.081	46217.67	0.0069	P	6.8	4.1
3	☐	5.000	4.627	100141.31	0.0146	P	3.3	-7.5
4	☐	10.000	10.320	207278.82	0.0317	P	4.9	3.2
5	☐	100.000	97.353	1911644.40	0.2929	A	1.8	-2.6
6	☐	200.000	201.316	3805364.84	0.6050	A	1.4	0.7

y = 0.0030 * x + 6.9250E-004
R = 0.9999
DL = 0.04968 ppb
BEC = 0.2307 ppb

Weight: <None>
Min Conc: <None>

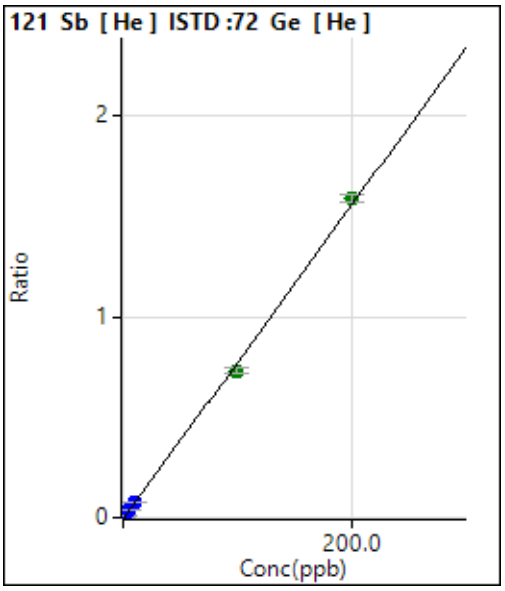


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0001	P	12.2	
2	☐	2.000	2.047	58880.91	0.0106	P	8.3	2.3
3	☐	5.000	4.677	137153.83	0.0241	P	3.6	-6.5
4	☐	10.000	10.316	286872.03	0.0531	P	5.2	3.2
5	☐	100.000	97.107	2702600.69	0.4983	A	0.7	-2.9
6	☐	200.000	201.439	5396310.75	1.0335	A	1.2	0.7

y = 0.0051 * x + 1.4866E-004
R = 0.9998
DL = 0.01065 ppb
BEC = 0.02898 ppb

Weight: <None>
Min Conc: <None>

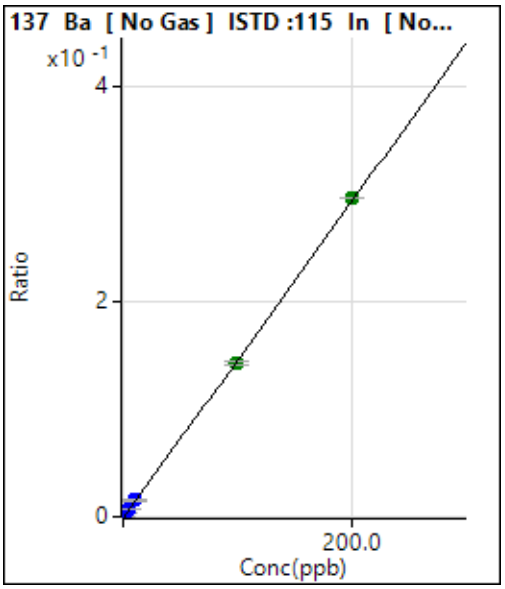
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	413.35	0.0002	P	16.8	
2	☐	2.000	1.778	25494.80	0.0141	P	1.5	-11.1
3	☐	5.000	4.489	62203.07	0.0354	P	3.8	-10.2
4	☐	10.000	10.099	133292.40	0.0793	P	1.0	1.0
5	☐	100.000	93.529	1233297.53	0.7324	A	4.2	-6.5
6	☐	200.000	203.246	2635998.09	1.5913	A	2.2	1.6

y = 0.0078 * x + 2.2948E-004
R = 0.9993
DL = 0.01477 ppb
BEC = 0.02931 ppb

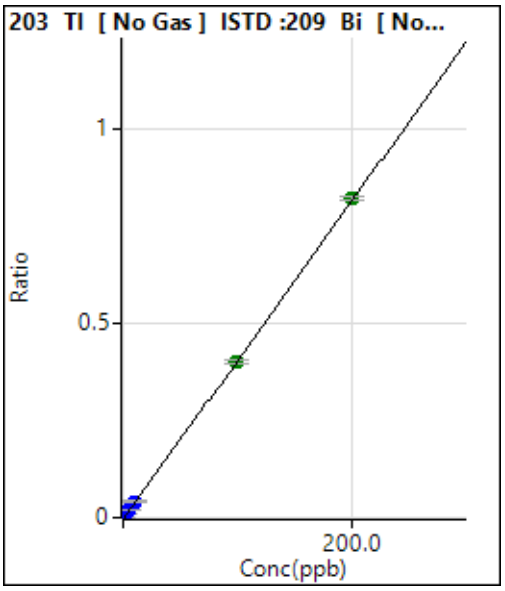
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	940.05	0.0001	P	7.8	
2	☐	2.000	2.193	22496.38	0.0034	P	6.4	9.6
3	☐	5.000	4.673	48312.86	0.0070	P	3.3	-6.5
4	☐	10.000	10.338	100695.00	0.0154	P	4.4	3.4
5	☐	100.000	97.380	937888.42	0.1437	A	2.3	-2.6
6	☐	200.000	201.300	1867861.90	0.2970	A	0.2	0.6

y = 0.0015 * x + 1.4446E-004
R = 0.9999
DL = 0.02297 ppb
BEC = 0.09797 ppb

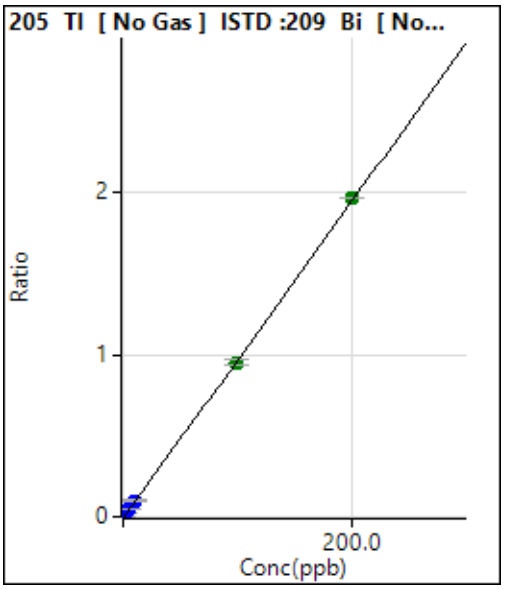
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0000	P	29.5	
2	☐	2.000	2.042	51653.18	0.0084	P	4.9	2.1
3	☐	5.000	4.626	118885.91	0.0190	P	2.2	-7.5
4	☐	10.000	10.089	250090.71	0.0414	P	5.5	0.9
5	☐	100.000	98.353	2398963.19	0.4028	A	2.3	-1.6
6	☐	200.000	200.828	4677810.76	0.8223	A	1.0	0.4

y = 0.0041 * x + 4.4497E-005
R = 1.0000
DL = 0.009613 ppb
BEC = 0.01087 ppb

Weight: <None>
Min Conc: <None>

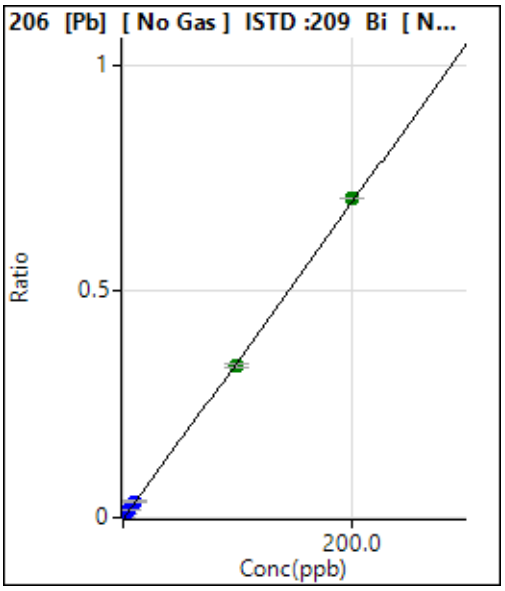


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0001	P	11.1	
2	☐	2.000	2.023	121946.95	0.0198	P	5.8	1.2
3	☐	5.000	4.581	280720.70	0.0448	P	2.4	-8.4
4	☐	10.000	10.058	595034.16	0.0983	P	5.0	0.6
5	☐	100.000	97.569	5677983.67	0.9533	A	2.9	-2.4
6	☐	200.000	201.223	11184025.25	1.9660	A	0.2	0.6

y = 0.0098 * x + 8.0008E-005
R = 0.9999
DL = 0.002719 ppb
BEC = 0.008189 ppb

Weight: <None>
Min Conc: <None>

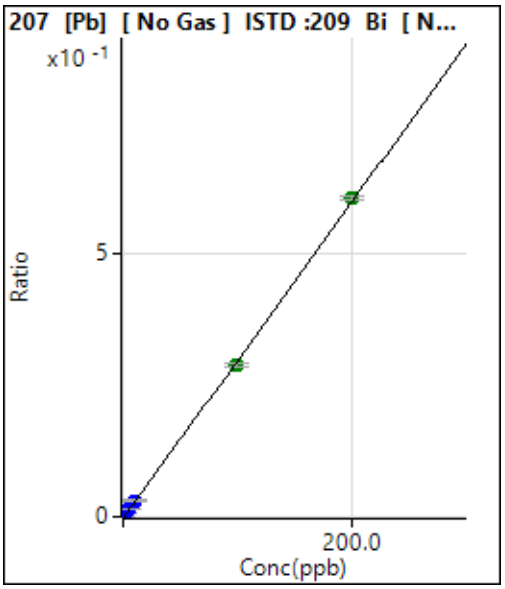
Calibration for 295_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	676.70	0.0001	P	11.1	
2	☐	2.000	2.067	45014.34	0.0073	P	7.3	3.4
3	☐	5.000	4.625	101769.90	0.0163	P	3.4	-7.5
4	☐	10.000	10.087	213622.22	0.0353	P	5.1	0.9
5	☐	100.000	96.040	1996991.69	0.3353	A	2.4	-4.0
6	☐	200.000	201.984	4010482.96	0.7050	A	0.4	1.0

y = 0.0035 * x + 1.1435E-004
R = 0.9997
DL = 0.01096 ppb
BEC = 0.03277 ppb

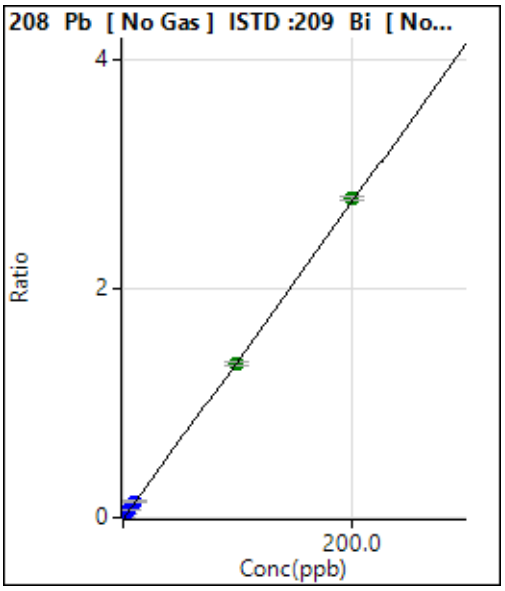
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	566.69	0.0001	P	17.1	
2	☐	2.000	2.008	37630.12	0.0061	P	7.7	0.4
3	☐	5.000	4.594	87000.44	0.0139	P	4.3	-8.1
4	☐	10.000	10.151	184949.07	0.0306	P	6.1	1.5
5	☐	100.000	96.496	1726876.12	0.2899	A	2.7	-3.5
6	☐	200.000	201.755	3447835.16	0.6061	A	0.8	0.9

y = 0.0030 * x + 9.5619E-005
R = 0.9998
DL = 0.0163 ppb
BEC = 0.03183 ppb

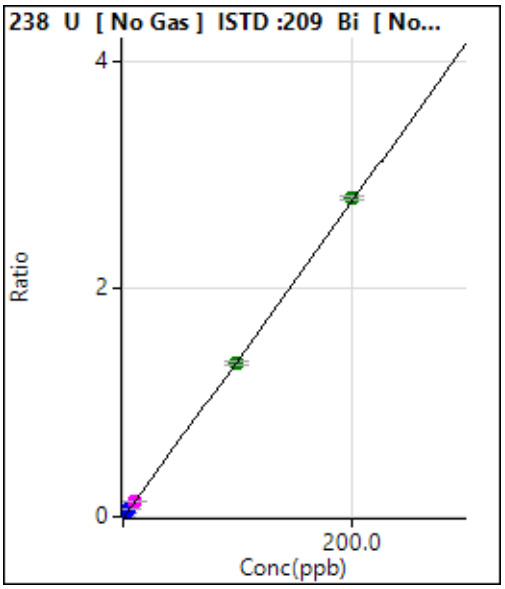
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.16	0.0004	P	8.2	
2	☐	2.000	2.045	176182.43	0.0287	P	7.1	2.2
3	☐	5.000	4.627	402893.09	0.0643	P	3.5	-7.5
4	☐	10.000	10.201	854688.49	0.1413	P	5.6	2.0
5	☐	100.000	96.740	7960707.74	1.3365	A	2.1	-3.3
6	☐	200.000	201.629	15842884.24	2.7850	A	1.0	0.8

y = 0.0138 * x + 4.4248E-004
R = 0.9998
DL = 0.007901 ppb
BEC = 0.03204 ppb

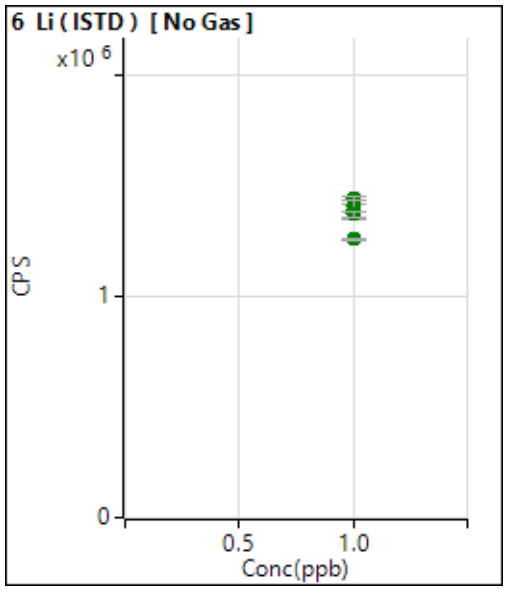
Weight: <None>
Min Conc: <None>



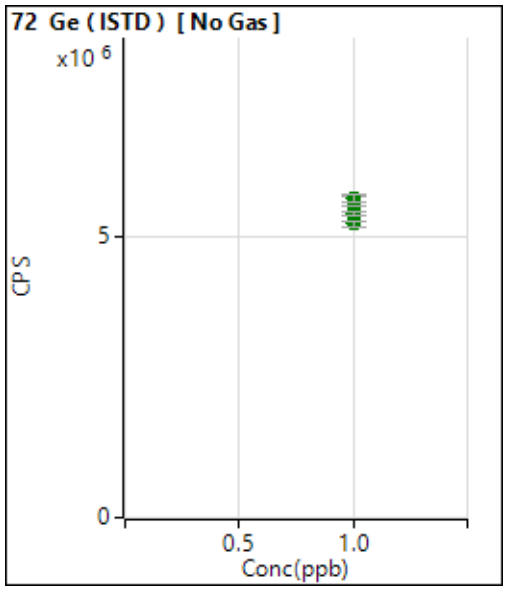
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0001	P	12.6	
2	☐	2.000	1.954	167357.46	0.0272	P	7.1	-2.3
3	☐	5.000	4.450	387432.22	0.0619	P	4.5	-11.0
4	☐	10.000	9.811	824417.75	0.1363	M	5.1	-1.9
5	☐	100.000	97.046	8021585.50	1.3468	A	2.8	-3.0
6	☐	200.000	201.500	15906219.35	2.7962	A	1.2	0.8

y = 0.0139 * x + 1.3384E-004
R = 0.9999
DL = 0.003642 ppb
BEC = 0.009645 ppb

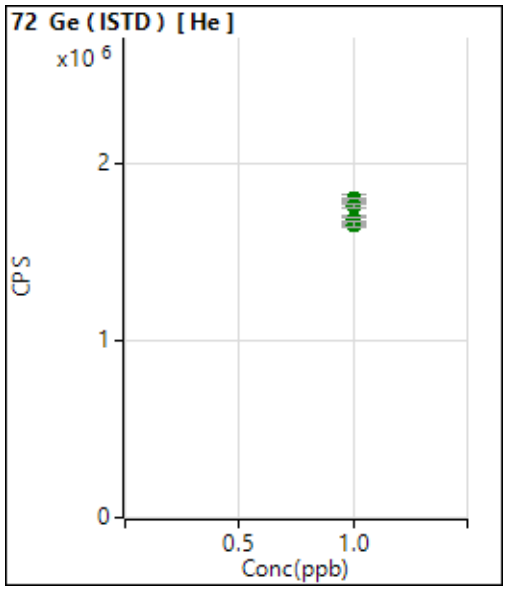
Weight: <None>
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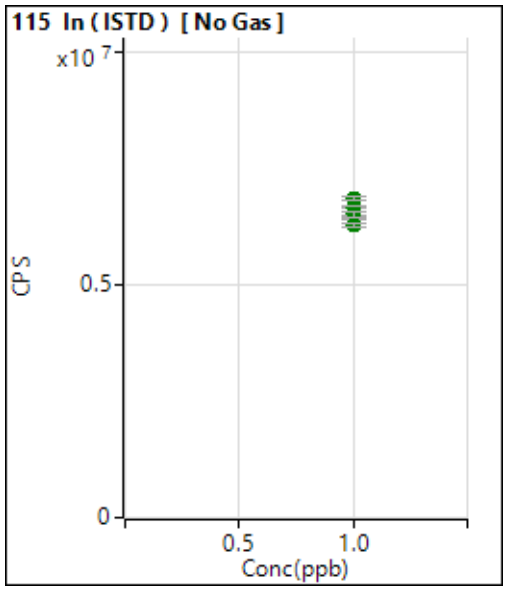
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1386463.37		A	5.3	
2	☐	1.000		1414002.04		A	3.6	
3	☐	1.000		1446173.49		A	1.1	
4	☐	1.000		1398038.17		A	5.4	
5	☐	1.000		1372735.37		A	2.1	
6	☐	1.000		1261782.70		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5401930.02		A	4.9	
2	☐	1.000		5544714.71		A	5.7	
3	☐	1.000		5683857.63		A	2.1	
4	☐	1.000		5412927.94		A	4.6	
5	☐	1.000		5423908.67		A	1.2	
6	☐	1.000		5221937.11		A	1.5	

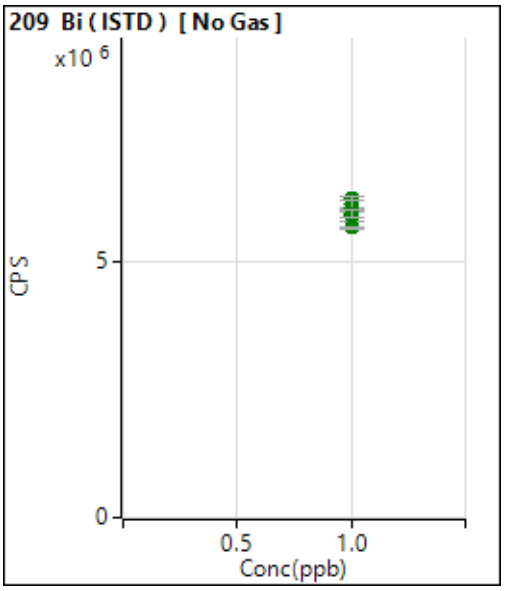


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1805342.53		A	2.1	
2	☐	1.000		1802261.33		A	0.5	
3	☐	1.000		1759017.58		A	1.4	
4	☐	1.000		1681177.68		A	3.5	
5	☐	1.000		1684830.86		A	1.9	
6	☐	1.000		1656977.16		A	2.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		6497844.74		A	5.0	
2	☐	1.000		6673538.06		A	5.0	
3	☐	1.000		6868205.63		A	0.8	
4	☐	1.000		6551176.75		A	4.3	
5	☐	1.000		6527018.96		A	2.1	
6	☐	1.000		6289656.26		A	1.0	

Calibration for 295_ICV.d



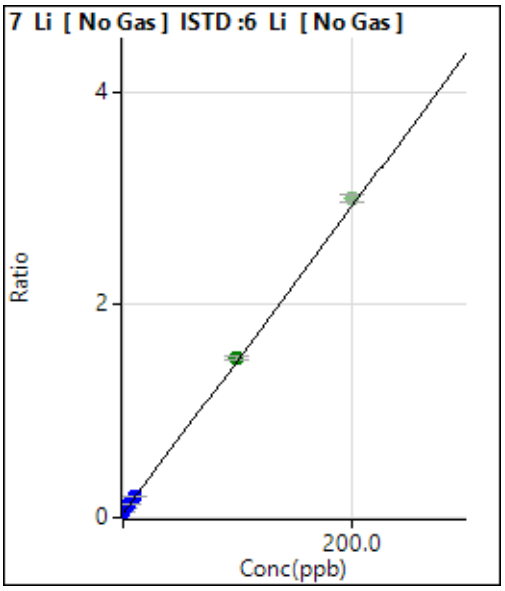
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5935275.33		A	4.8	
2	☐	1.000		6155836.37		A	4.7	
3	☐	1.000		6262566.99		A	0.9	
4	☐	1.000		6059329.49		A	5.8	
5	☐	1.000		5958285.54		A	2.1	
6	☐	1.000		5688627.62		A	0.6	

Calibration for 105_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	098CALB.d	CAL BLK	5/29/2024 2:58:14 PM
2	099CALS.d	2/10/200	5/29/2024 3:00:44 PM
3	100CALS.d	5/25/500	5/29/2024 3:03:15 PM
4	101CALS.d	10/50/100	5/29/2024 3:05:45 PM
5	102CALS.d	100/500/10K	5/29/2024 3:08:14 PM
6	103CALS.d	200/1000/20K	5/29/2024 3:10:46 PM

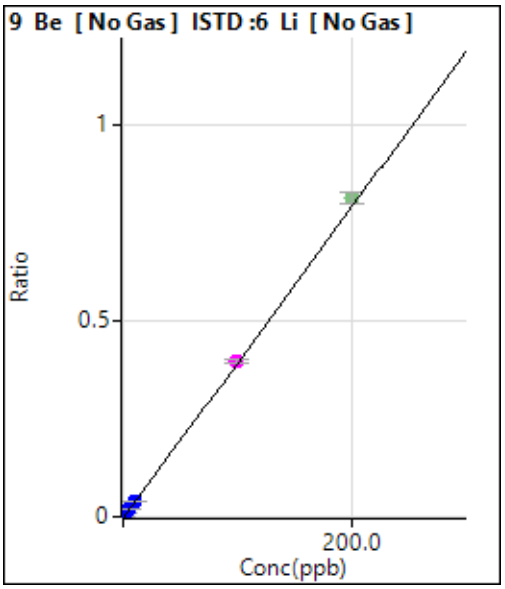
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72289.23	0.0555	P	0.9	
2	☐	2.000	2.065	110191.24	0.0852	P	1.3	3.3
3	☐	5.000	5.039	164368.58	0.1281	P	0.9	0.8
4	☐	10.000	10.112	256607.64	0.2012	P	1.0	1.1
5	☐	100.000	99.986	1838697.73	1.4960	A	2.4	0.0
6	☑	200.000		3531287.66	3.0028	A	3.0	

y = 0.0144 * x + 0.0555
R = 1.0000
DL = 0.09876 ppb
BEC = 3.85 ppb

Weight: <None>
Min Conc: <None>

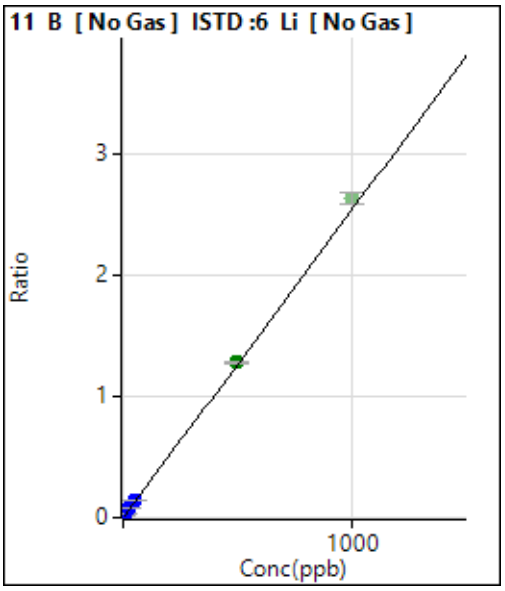


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15.00	0.0000	P	33.6	
2	☐	2.000	1.934	9928.53	0.0077	P	2.9	-3.3
3	☐	5.000	4.925	25078.79	0.0195	P	1.2	-1.5
4	☐	10.000	9.832	49743.44	0.0390	P	2.5	-1.7
5	☐	100.000	100.022	487426.80	0.3966	M	2.2	0.0
6	☑	200.000		955455.04	0.8125	A	3.5	

y = 0.0040 * x + 1.1517E-005
R = 1.0000
DL = 0.002925 ppb
BEC = 0.002905 ppb

Weight: <None>
Min Conc: <None>

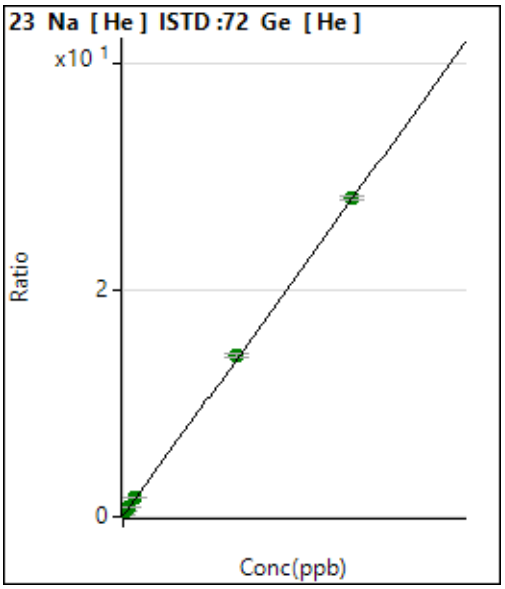
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14662.63	0.0113	P	1.4	
2	☐	10.000	9.745	46529.34	0.0360	P	3.2	-2.6
3	☐	25.000	24.426	94042.30	0.0733	P	1.2	-2.3
4	☐	50.000	49.463	174559.21	0.1368	P	1.1	-1.1
5	☐	500.000	500.087	1574453.46	1.2810	A	1.9	0.0
6	☑	1000.000		3099878.60	2.6361	A	3.5	

y = 0.0025 * x + 0.0113
R = 1.0000
DL = 0.1854 ppb
BEC = 4.431 ppb

Weight: <None>
Min Conc: <None>

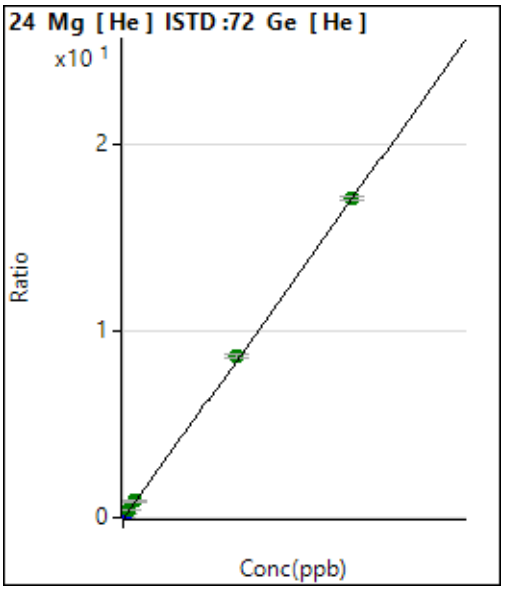


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286629.47	0.2086	P	0.5	
2	☐	200.000	195.343	660366.16	0.4808	A	1.2	-2.3
3	☐	500.000	489.104	1206386.47	0.8902	A	2.6	-2.2
4	☐	1000.000	1011.957	2190193.09	1.6188	A	1.4	1.2
5	☐	10000.00	10001.04	19007518.05	14.1457	A	2.6	0.0
6	☐	20000.00	19999.19	37673615.27	28.0789	A	1.8	0.0

y = 0.0014 * x + 0.2086
R = 1.0000
DL = 2.382 ppb
BEC = 149.7 ppb

Weight: <None>
Min Conc: <None>

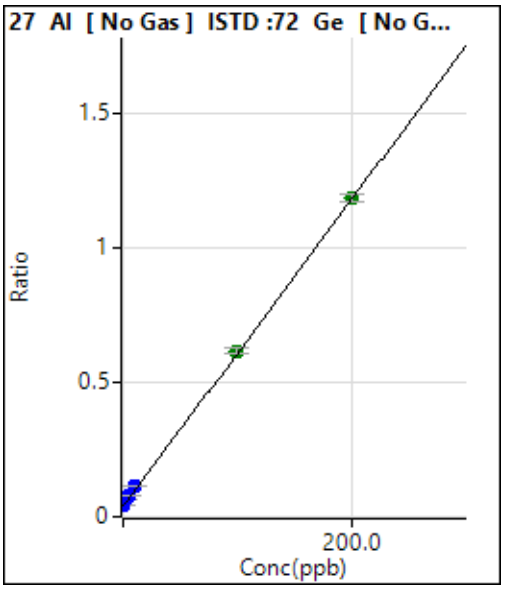
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0009	P	10.2	
2	☐	200.000	203.355	240598.23	0.1752	P	2.6	1.7
3	☐	500.000	494.607	575627.47	0.4248	A	3.2	-1.1
4	☐	1000.000	1023.806	1188254.49	0.8783	A	2.3	2.4
5	☐	10000.00	10072.23	11599054.41	8.6323	A	2.6	0.7
6	☐	20000.00	19962.79	22954083.82	17.1080	A	1.7	-0.2

y = 8.5695E-004 * x + 9.0729E-004
R = 1.0000
DL = 0.3251 ppb
BEC = 1.059 ppb

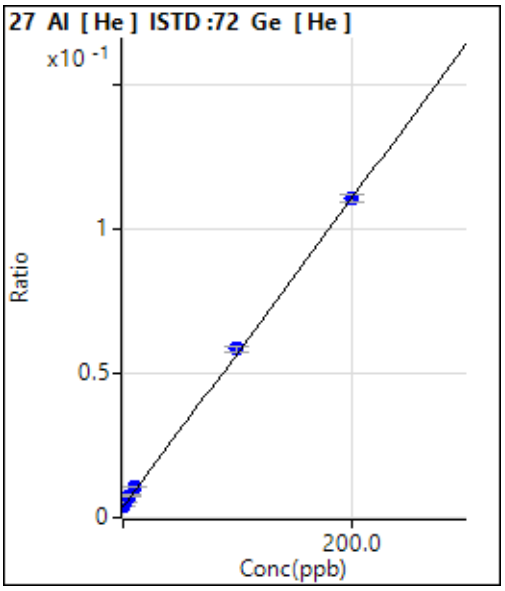
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193314.14	0.0443	P	1.0	
2	☐	2.000	2.961	266805.69	0.0612	P	1.5	48.1
3	☐	5.000	6.146	346436.57	0.0794	P	0.3	22.9
4	☐	10.000	12.150	491296.58	0.1137	P	2.8	21.5
5	☐	100.000	100.019	2637158.81	0.6151	A	3.7	0.0
6	☐	200.000	199.845	4997676.59	1.1847	A	2.7	-0.1

y = 0.0057 * x + 0.0443
R = 1.0000
DL = 0.2301 ppb
BEC = 7.771 ppb

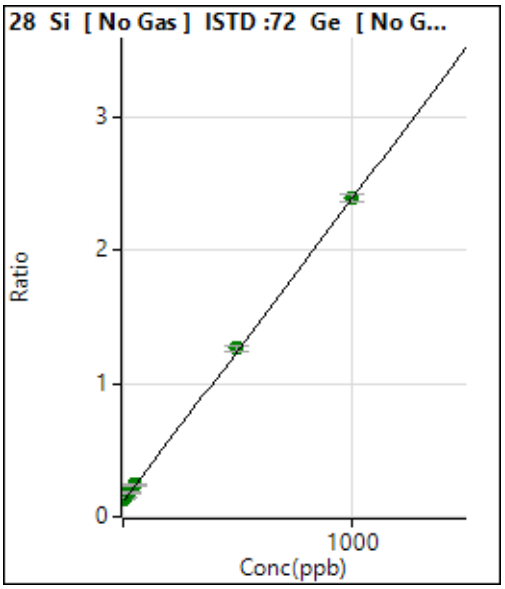
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5864.66	0.0043	P	1.5	
2	☐	2.000	2.364	7598.86	0.0055	P	3.7	18.2
3	☐	5.000	6.343	10387.35	0.0077	P	2.4	26.9
4	☐	10.000	12.107	14541.15	0.0107	P	1.6	21.1
5	☐	100.000	101.632	78817.47	0.0587	P	3.4	1.6
6	☐	200.000	199.042	148669.78	0.1108	P	2.5	-0.5

y = 5.3521E-004 * x + 0.0043
R = 0.9999
DL = 0.3498 ppb
BEC = 7.973 ppb

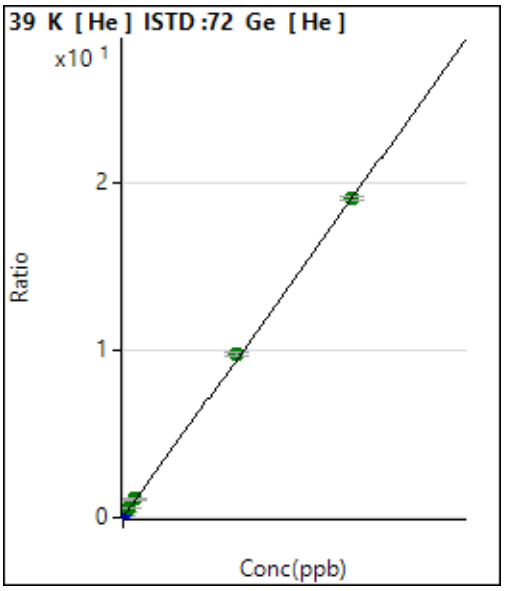
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	544083.64	0.1248	A	0.1	
2	☐	10.000	10.489	647336.42	0.1486	A	0.2	4.9
3	☐	25.000	24.661	788341.94	0.1807	A	1.2	-1.4
4	☐	50.000	51.129	1040449.83	0.2407	A	3.1	2.3
5	☐	500.000	501.773	5413186.59	1.2626	A	3.7	0.4
6	☐	1000.000	999.060	10082694.22	2.3901	A	2.6	-0.1

y = 0.0023 * x + 0.1248
R = 1.0000
DL = 0.2234 ppb
BEC = 55.04 ppb

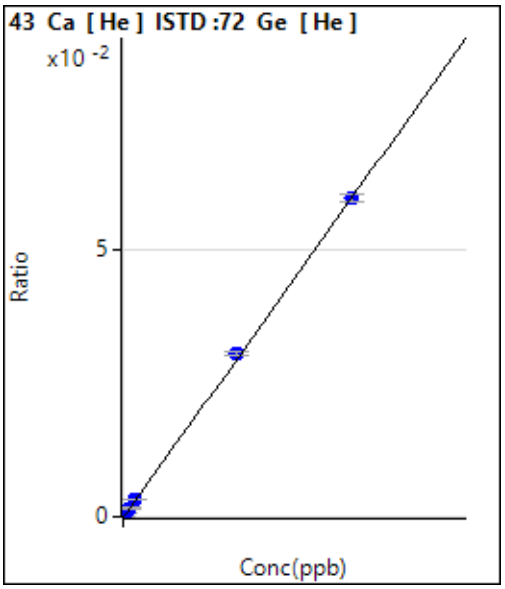
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145309.32	0.1057	P	0.4	
2	☐	200.000	201.719	409560.47	0.2982	P	2.4	0.9
3	☐	500.000	494.949	783265.98	0.5779	A	2.8	-1.0
4	☐	1000.000	1037.794	1482655.19	1.0959	A	2.1	3.8
5	☐	10000.00	10147.32	13151539.80	9.7869	A	1.7	1.5
6	☐	20000.00	19924.55	25647874.62	19.1151	A	1.4	-0.4

y = 9.5407E-004 * x + 0.1057
R = 1.0000
DL = 1.325 ppb
BEC = 110.8 ppb

Weight: <None>
Min Conc: <None>

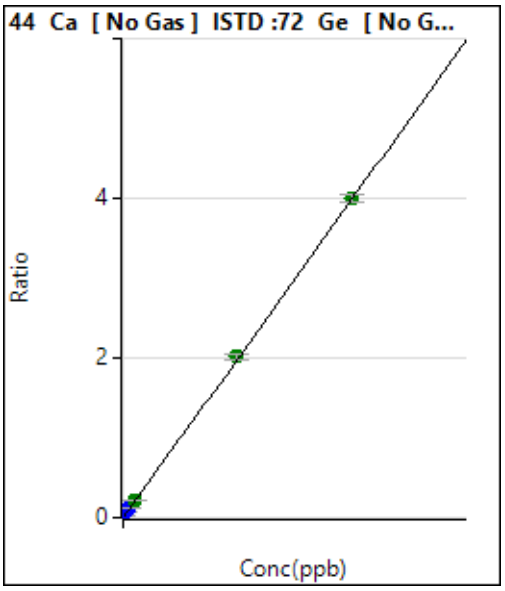


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0001	P	39.1	
2	☐	200.000	210.631	970.06	0.0007	P	20.1	5.3
3	☐	500.000	511.884	2180.21	0.0016	P	8.8	2.4
4	☐	1000.000	1026.628	4264.08	0.0032	P	5.7	2.7
5	☐	10000.00	10200.36	41177.96	0.0306	P	2.6	2.0
6	☐	20000.00	19898.08	80107.44	0.0597	P	2.8	-0.5

y = 2.9971E-006 * x + 7.5183E-005
R = 0.9999
DL = 29.4 ppb
BEC = 25.09 ppb

Weight: <None>
Min Conc: <None>

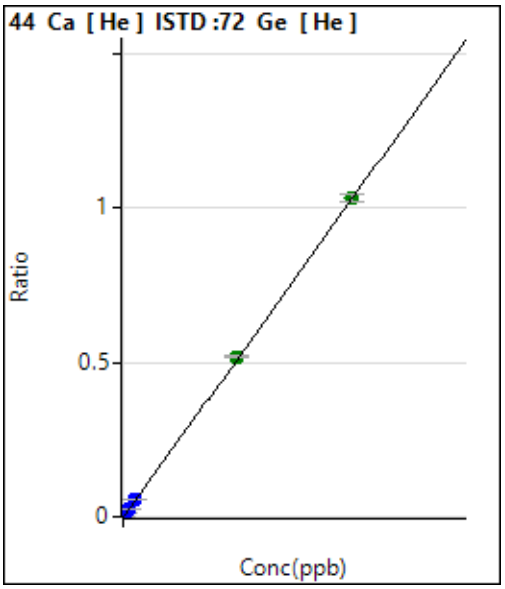
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77170.00	0.0177	P	2.5	
2	☐	200.000	221.279	269276.44	0.0618	P	1.5	10.6
3	☐	500.000	538.615	545546.30	0.1251	P	1.9	7.7
4	☐	1000.000	1024.768	959333.55	0.2220	A	3.5	2.5
5	☐	10000.00	10033.38	8651430.08	2.0177	A	3.1	0.3
6	☐	20000.00	19980.89	16876914.75	4.0006	A	2.2	-0.1

y = 1.9934E-004 * x + 0.0177
R = 1.0000
DL = 6.608 ppb
BEC = 88.8 ppb

Weight: <None>
Min Conc: <None>

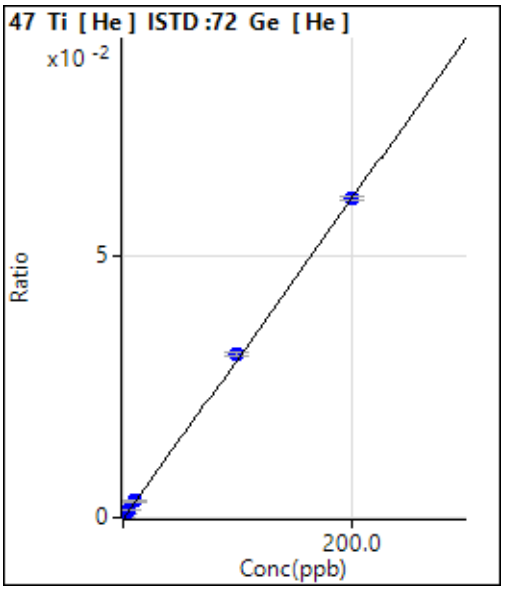


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2573.61	0.0019	P	3.7	
2	☐	200.000	205.056	17090.77	0.0124	P	2.0	2.5
3	☐	500.000	490.452	36802.22	0.0272	P	2.1	-1.9
4	☐	1000.000	1035.868	74780.49	0.0553	P	1.3	3.6
5	☐	10000.00	10030.25	697328.45	0.5189	A	1.2	0.3
6	☐	20000.00	19983.26	1384564.36	1.0320	A	2.0	-0.1

y = 5.1548E-005 * x + 0.0019
R = 1.0000
DL = 4.012 ppb
BEC = 36.33 ppb

Weight: <None>
Min Conc: <None>

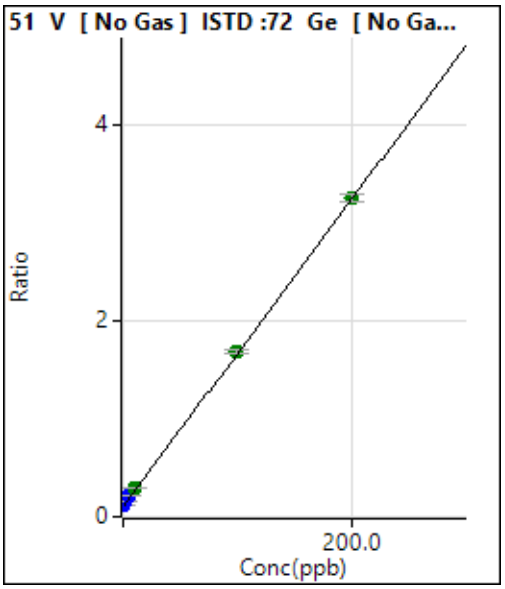
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	2.094	893.38	0.0007	P	9.0	4.7
3	☐	5.000	5.066	2113.54	0.0016	P	2.9	1.3
4	☐	10.000	10.213	4240.72	0.0031	P	1.9	2.1
5	☐	100.000	101.496	41736.19	0.0311	P	2.2	1.5
6	☐	200.000	199.239	81793.78	0.0610	P	1.2	-0.4

y = 3.0592E-004 * x + 9.6904E-006
R = 1.0000
DL = 0.0823 ppb
BEC = 0.03168 ppb

Weight: <None>
Min Conc: <None>

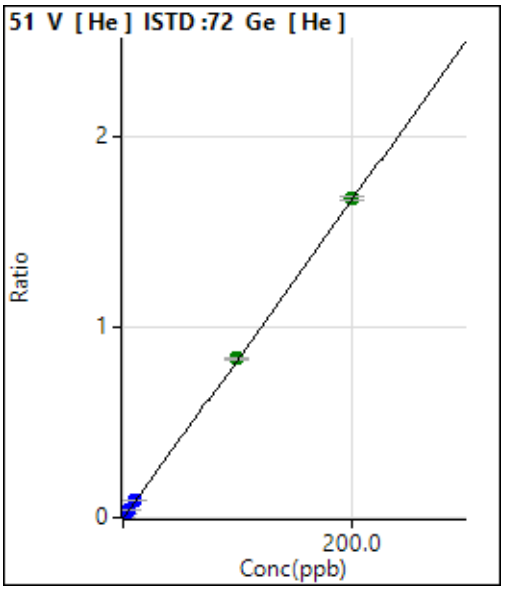


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	517978.49	0.1188	P	1.4	
2	☐	2.000	2.662	699471.71	0.1606	P	0.8	33.1
3	☐	5.000	6.103	935752.14	0.2145	P	1.7	22.1
4	☐	10.000	11.575	1298192.99	0.3003	A	1.2	15.8
5	☐	100.000	99.971	7231859.55	1.6866	A	2.3	0.0
6	☐	200.000	199.902	13725968.25	3.2537	A	2.0	0.0

y = 0.0157 * x + 0.1188
R = 1.0000
DL = 0.3272 ppb
BEC = 7.577 ppb

Weight: <None>
Min Conc: <None>

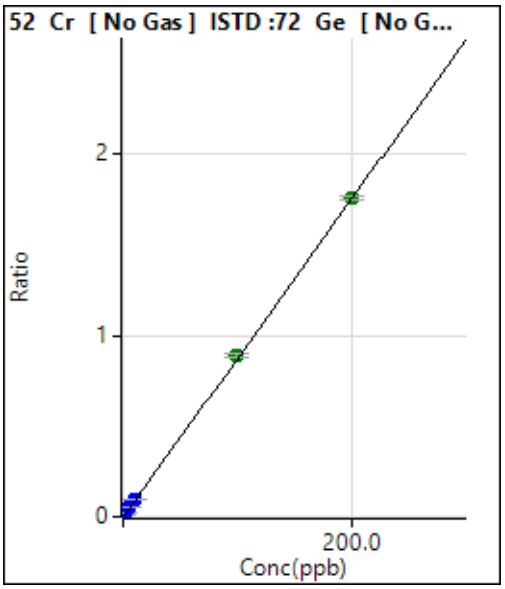
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4532.99	0.0033	P	1.6	
2	☐	2.000	2.025	27813.44	0.0203	P	1.7	1.2
3	☐	5.000	4.888	59936.52	0.0442	P	1.9	-2.2
4	☐	10.000	10.126	119172.53	0.0881	P	1.9	1.3
5	☐	100.000	99.380	1122488.88	0.8354	A	1.9	-0.6
6	☐	200.000	200.306	2254655.47	1.6804	A	1.3	0.2

y = 0.0084 * x + 0.0033
R = 1.0000
DL = 0.01888 ppb
BEC = 0.3939 ppb

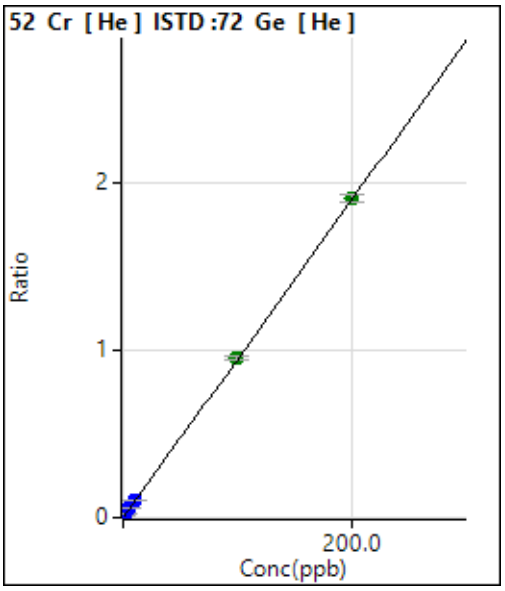
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24051.28	0.0055	P	0.9	
2	☐	2.000	2.112	104774.64	0.0241	P	0.5	5.6
3	☐	5.000	5.125	220217.89	0.0505	P	2.2	2.5
4	☐	10.000	10.375	417313.69	0.0966	P	2.1	3.7
5	☐	100.000	100.629	3809990.36	0.8885	A	1.8	0.6
6	☐	200.000	199.662	7414303.64	1.7575	A	1.5	-0.2

y = 0.0088 * x + 0.0055
R = 1.0000
DL = 0.01764 ppb
BEC = 0.6287 ppb

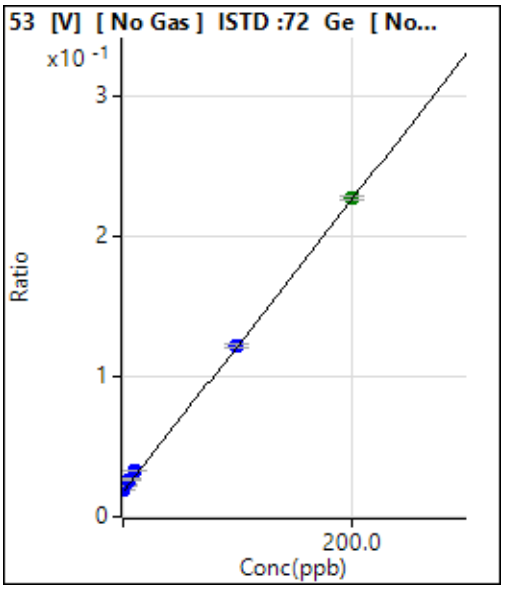
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.05	0.0084	P	0.8	
2	☐	2.000	2.007	37708.50	0.0275	P	3.2	0.4
3	☐	5.000	5.050	76343.33	0.0563	P	3.2	1.0
4	☐	10.000	10.179	142080.10	0.1050	P	0.6	1.8
5	☐	100.000	99.902	1285243.03	0.9565	A	2.4	-0.1
6	☐	200.000	200.039	2558408.92	1.9068	A	2.4	0.0

y = 0.0095 * x + 0.0084
R = 1.0000
DL = 0.02082 ppb
BEC = 0.8859 ppb

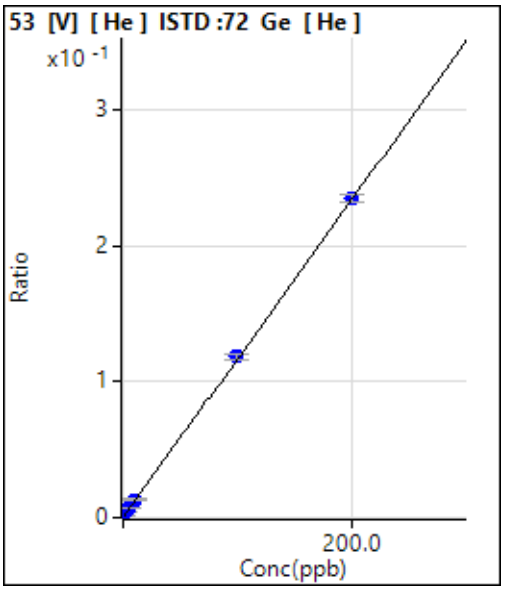
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83088.63	0.0191	P	1.4	
2	☐	2.000	3.432	98592.51	0.0226	P	0.9	71.6
3	☐	5.000	7.256	116073.57	0.0266	P	2.4	45.1
4	☐	10.000	12.910	140450.29	0.0325	P	1.1	29.1
5	☐	100.000	98.982	523398.29	0.1221	P	2.3	-1.0
6	☐	200.000	200.293	959675.51	0.2275	A	1.6	0.1

y = 0.0010 * x + 0.0191
R = 0.9999
DL = 0.7918 ppb
BEC = 18.32 ppb

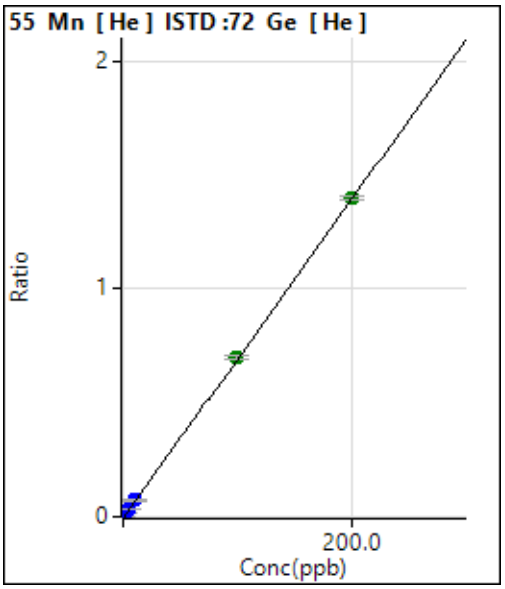
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2040.18	0.0015	P	12.2	
2	☐	2.000	2.147	5477.85	0.0040	P	5.1	7.3
3	☐	5.000	5.010	9933.73	0.0073	P	0.8	0.2
4	☐	10.000	10.162	18048.75	0.0133	P	5.6	1.6
5	☐	100.000	100.029	158763.74	0.1182	P	2.7	0.0
6	☐	200.000	199.976	314950.89	0.2347	P	2.9	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.4654 ppb
BEC = 1.273 ppb

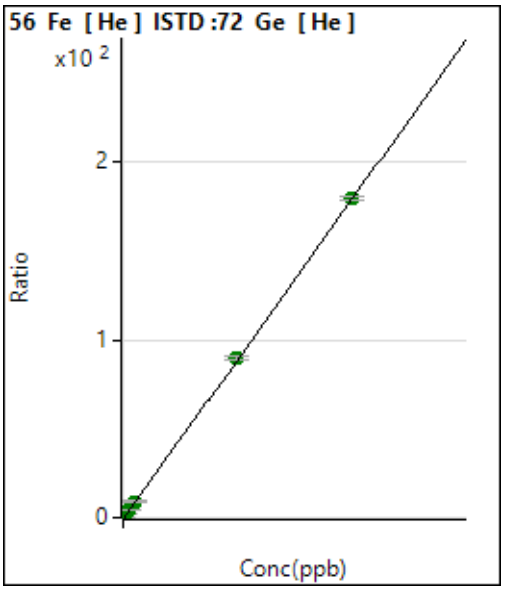
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.71	0.0007	P	8.0	
2	☐	2.000	2.054	20662.40	0.0150	P	2.4	2.7
3	☐	5.000	5.011	48435.26	0.0357	P	3.9	0.2
4	☐	10.000	10.206	97559.34	0.0721	P	1.6	2.1
5	☐	100.000	100.238	943695.17	0.7023	A	2.3	0.2
6	☐	200.000	199.870	1878014.40	1.3997	A	1.1	-0.1

y = 0.0070 * x + 6.6703E-004
R = 1.0000
DL = 0.02299 ppb
BEC = 0.09529 ppb

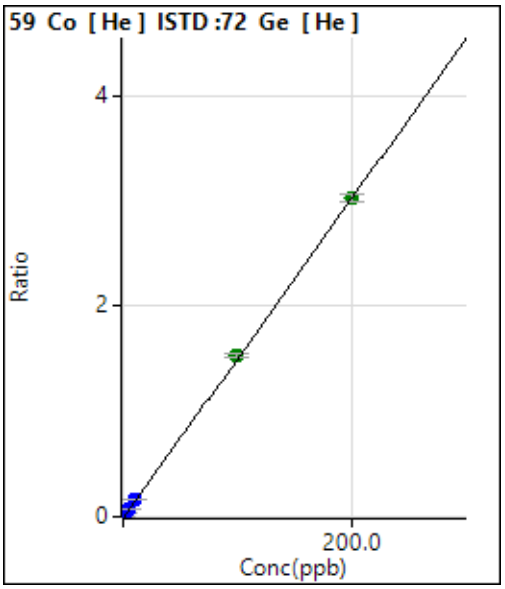
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24682.36	0.0180	P	2.7	
2	☐	200.000	199.740	2490583.92	1.8134	A	2.6	-0.1
3	☐	500.000	494.794	6051915.74	4.4655	A	2.5	-1.0
4	☐	1000.000	1015.032	12368342.31	9.1417	A	1.8	1.5
5	☐	10000.00	10019.84	121048588.2	90.0830	A	2.0	0.2
6	☐	20000.00	19989.46	241097883.0	179.696	A	1.5	-0.1

y = 0.0090 * x + 0.0180
R = 1.0000
DL = 0.1618 ppb
BEC = 1.998 ppb

Weight: <None>
Min Conc: <None>

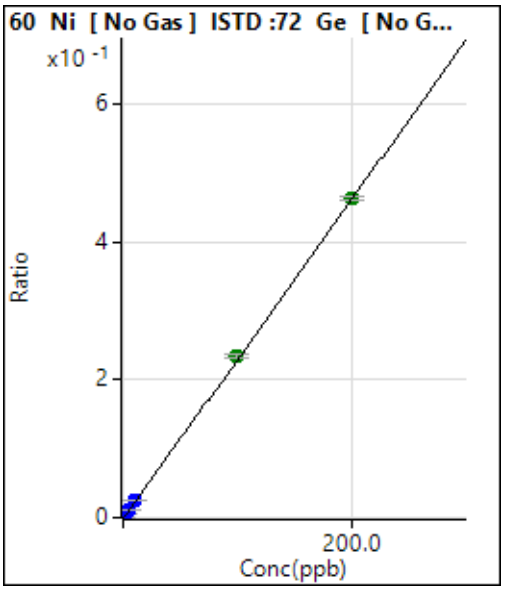


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	10.1	
2	☐	2.000	2.053	42883.69	0.0312	P	2.3	2.7
3	☐	5.000	5.008	103074.24	0.0760	P	1.4	0.2
4	☐	10.000	10.311	211716.47	0.1565	P	1.3	3.1
5	☐	100.000	101.149	2062013.41	1.5345	A	1.7	1.1
6	☐	200.000	199.409	4058702.33	3.0251	A	2.4	-0.3

y = 0.0152 * x + 7.2767E-005
R = 1.0000
DL = 0.001448 ppb
BEC = 0.004797 ppb

Weight: <None>
Min Conc: <None>

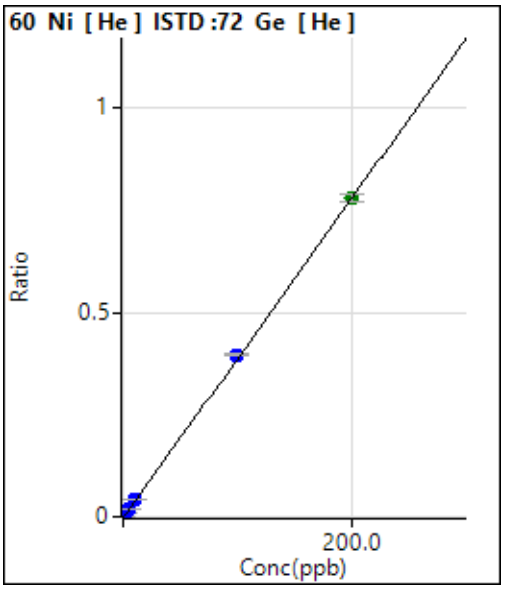
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1850.17	0.0004	P	10.4	
2	☐	2.000	2.046	22508.72	0.0052	P	4.6	2.3
3	☐	5.000	5.135	53765.54	0.0123	P	2.4	2.7
4	☐	10.000	10.399	106019.44	0.0245	P	1.8	4.0
5	☐	100.000	100.420	999918.26	0.2332	A	2.4	0.4
6	☐	200.000	199.766	1955243.62	0.4635	A	1.5	-0.1

y = 0.0023 * x + 4.2438E-004
R = 1.0000
DL = 0.05693 ppb
BEC = 0.1831 ppb

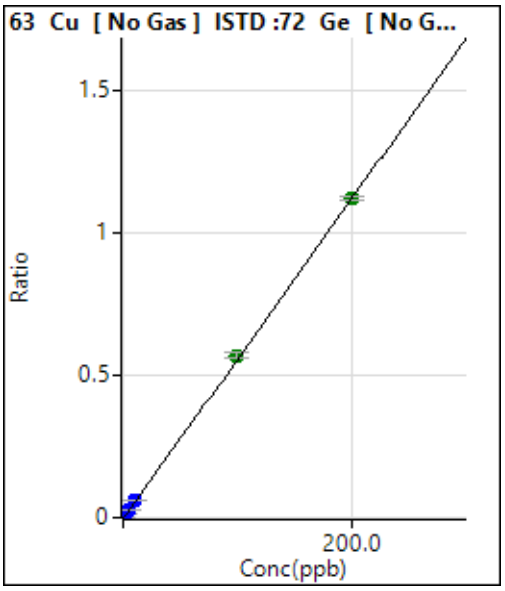
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	853.37	0.0006	P	6.3	
2	☐	2.000	1.982	11515.03	0.0084	P	2.0	-0.9
3	☐	5.000	5.039	27584.63	0.0204	P	1.6	0.8
4	☐	10.000	10.380	55829.97	0.0413	P	0.7	3.8
5	☐	100.000	101.280	533730.77	0.3972	P	1.1	1.3
6	☐	200.000	199.340	1048068.86	0.7811	A	2.3	-0.3

y = 0.0039 * x + 6.2089E-004
R = 1.0000
DL = 0.02982 ppb
BEC = 0.1586 ppb

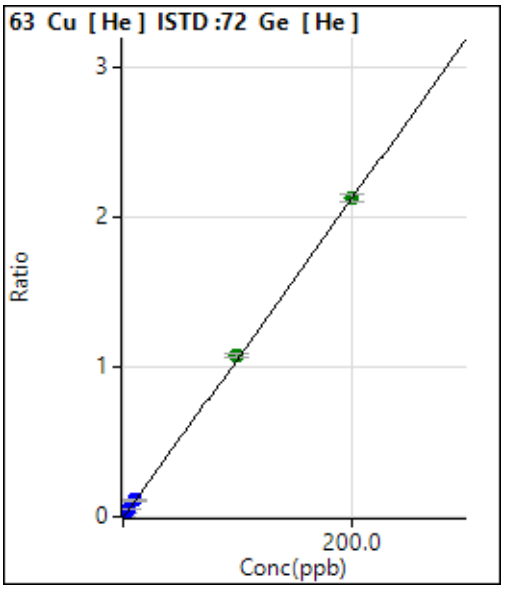
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4254.07	0.0010	P	3.9	
2	☐	2.000	2.100	55776.70	0.0128	P	3.7	5.0
3	☐	5.000	5.163	131090.91	0.0301	P	2.0	3.3
4	☐	10.000	10.504	259902.25	0.0601	P	2.3	5.0
5	☐	100.000	101.341	2451580.54	0.5717	A	3.3	1.3
6	☐	200.000	199.299	4739522.85	1.1235	A	1.6	-0.4

y = 0.0056 * x + 9.7576E-004
R = 1.0000
DL = 0.02033 ppb
BEC = 0.1732 ppb

Weight: <None>
Min Conc: <None>

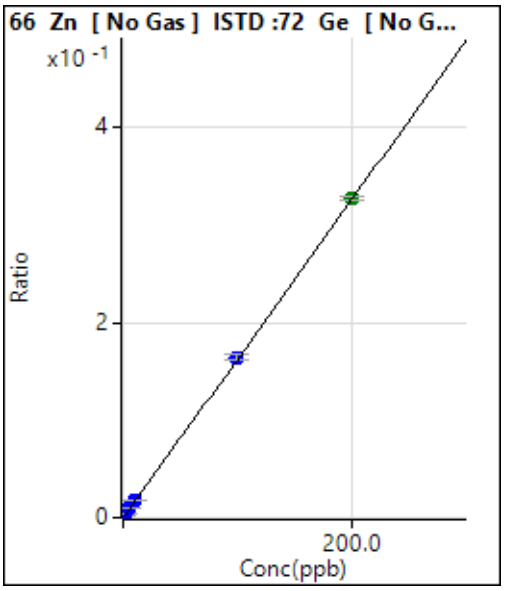


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2306.91	0.0017	P	6.2	
2	☐	2.000	2.026	31900.78	0.0232	P	3.1	1.3
3	☐	5.000	5.024	74695.94	0.0551	P	2.9	0.5
4	☐	10.000	10.183	148798.43	0.1100	P	2.2	1.8
5	☐	100.000	100.803	1442889.72	1.0738	A	1.7	0.8
6	☐	200.000	199.589	2850281.21	2.1244	A	2.2	-0.2

y = 0.0106 * x + 0.0017
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1578 ppb

Weight: <None>
Min Conc: <None>

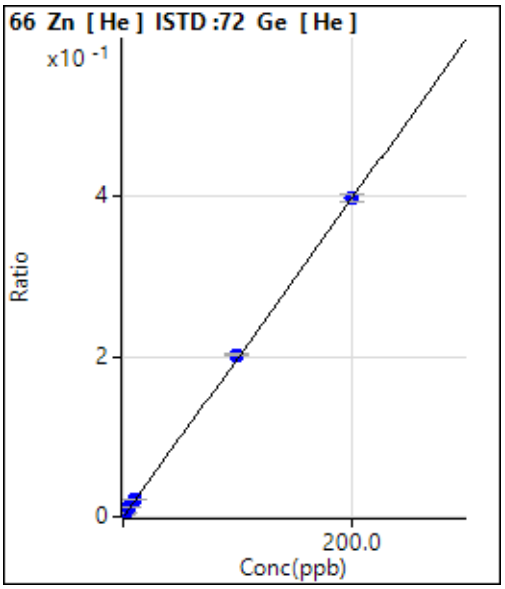
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5441.18	0.0012	P	4.0	
2	☐	2.000	2.174	20882.85	0.0048	P	2.2	8.7
3	☐	5.000	4.954	40687.45	0.0093	P	2.0	-0.9
4	☐	10.000	10.276	77836.49	0.0180	P	1.0	2.8
5	☐	100.000	100.123	705528.43	0.1645	P	2.9	0.1
6	☐	200.000	199.924	1380823.88	0.3273	A	1.5	0.0

y = 0.0016 * x + 0.0012
R = 1.0000
DL = 0.09167 ppb
BEC = 0.7654 ppb

Weight: <None>
Min Conc: <None>

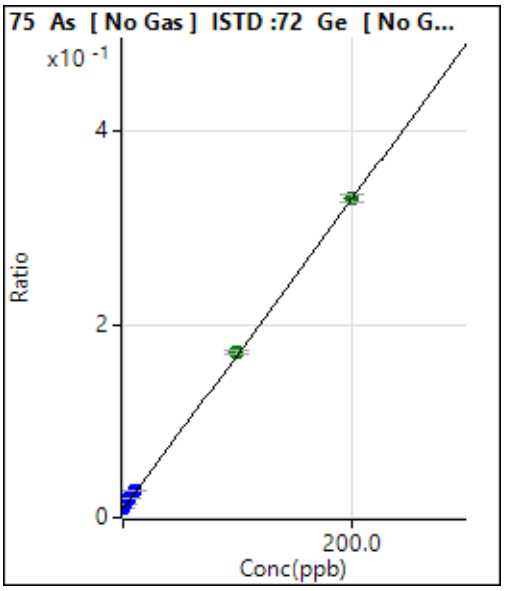


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1990.18	0.0014	P	6.1	
2	☐	2.000	2.207	8015.78	0.0058	P	3.3	10.3
3	☐	5.000	4.795	14884.91	0.0110	P	2.9	-4.1
4	☐	10.000	10.347	29796.05	0.0220	P	3.8	3.5
5	☐	100.000	101.023	271884.24	0.2023	P	1.9	1.0
6	☐	200.000	199.474	534120.45	0.3981	P	2.2	-0.3

y = 0.0020 * x + 0.0014
R = 1.0000
DL = 0.1331 ppb
BEC = 0.7282 ppb

Weight: <None>
Min Conc: <None>

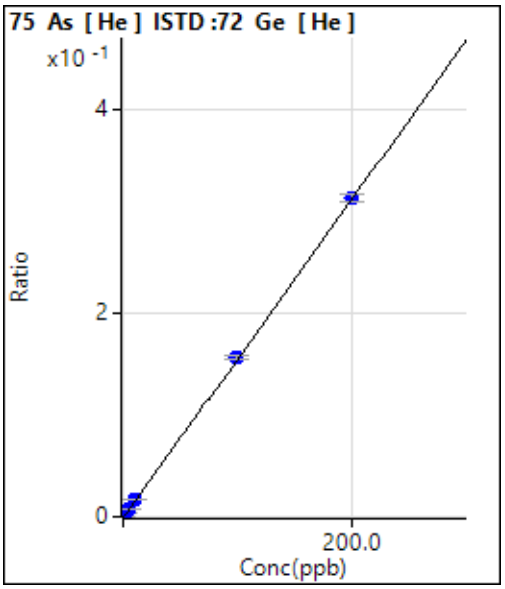
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44629.96	0.0102	P	2.1	
2	☐	2.000	2.424	61562.10	0.0141	P	0.7	21.2
3	☐	5.000	5.698	84584.23	0.0194	P	1.4	14.0
4	☐	10.000	11.112	121405.60	0.0281	P	1.0	11.1
5	☐	100.000	100.501	736109.68	0.1717	A	2.9	0.5
6	☐	200.000	199.672	1396275.29	0.3310	A	1.9	-0.2

y = 0.0016 * x + 0.0102
R = 1.0000
DL = 0.4022 ppb
BEC = 6.373 ppb

Weight: <None>
Min Conc: <None>

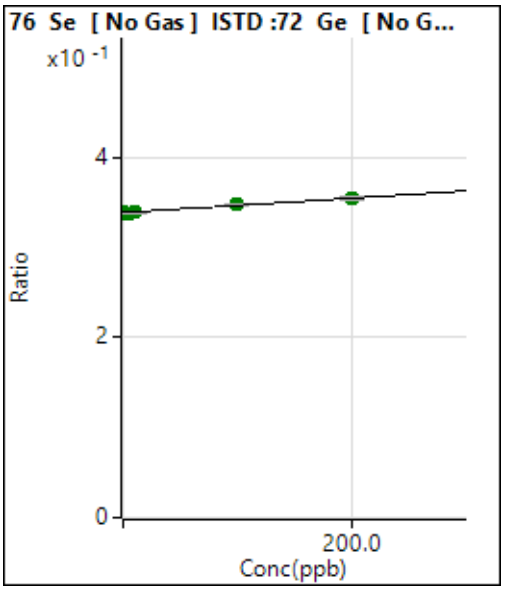


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	394.45	0.0003	P	9.2	
2	☐	2.000	2.029	4761.97	0.0035	P	3.3	1.5
3	☐	5.000	4.886	10765.40	0.0079	P	4.0	-2.3
4	☐	10.000	10.297	22219.21	0.0164	P	0.3	3.0
5	☐	100.000	99.861	210665.33	0.1568	P	1.7	-0.1
6	☐	200.000	200.057	421044.52	0.3138	P	1.9	0.0

y = 0.0016 * x + 2.8699E-004
R = 1.0000
DL = 0.05039 ppb
BEC = 0.1831 ppb

Weight: <None>
Min Conc: <None>

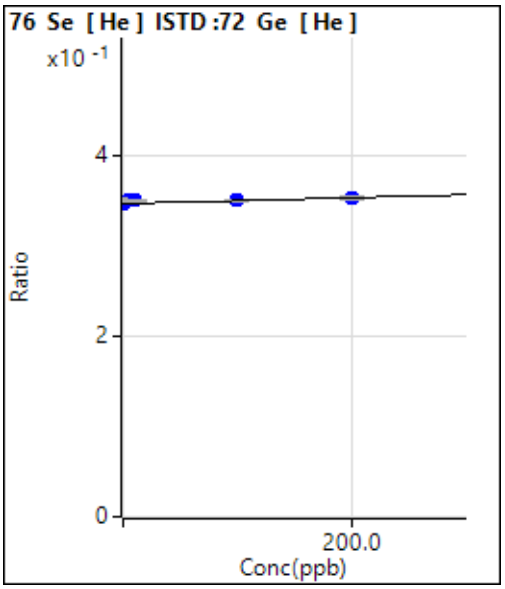
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1478801.86	0.3392	A	0.2	
2	☐	2.000	-20.845	1470482.48	0.3375	A	0.5	-1142.3
3	☐	5.000	-9.961	1476269.25	0.3384	A	0.7	-299.2
4	☐	10.000	7.122	1468759.87	0.3398	A	0.8	-28.8
5	☐	100.000	108.036	1491958.05	0.3479	A	0.6	8.0
6	☐	200.000	196.728	1497989.72	0.3551	A	0.8	-1.6

y = 8.0503E-005 * x + 0.3392
R = 0.9933
DL = 26.72 ppb
BEC = 4214 ppb

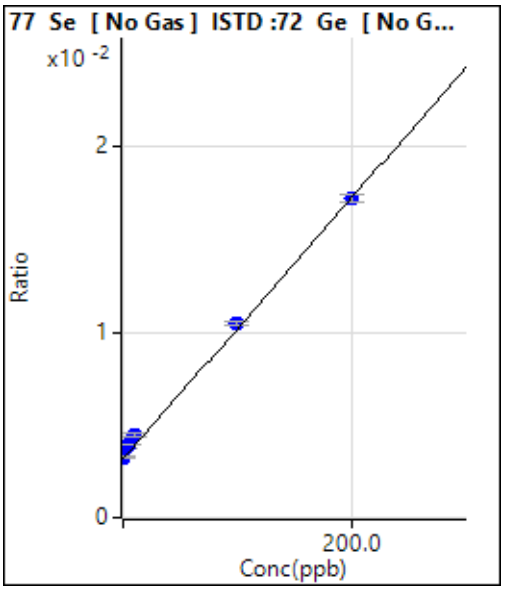
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	477258.47	0.3473	P	1.6	
2	☐	2.000	43.920	478993.38	0.3487	P	0.6	2096.0
3	☐	5.000	95.048	474964.69	0.3504	P	1.3	1801.0
4	☐	10.000	95.966	474172.67	0.3505	P	0.4	859.7
5	☐	100.000	116.344	471879.60	0.3511	P	0.7	16.3
6	☐	200.000	184.859	474179.69	0.3534	P	1.0	-7.6

y = 3.3173E-005 * x + 0.3473
R = 0.8444
DL = 511 ppb
BEC = 1.047E+04 ppb

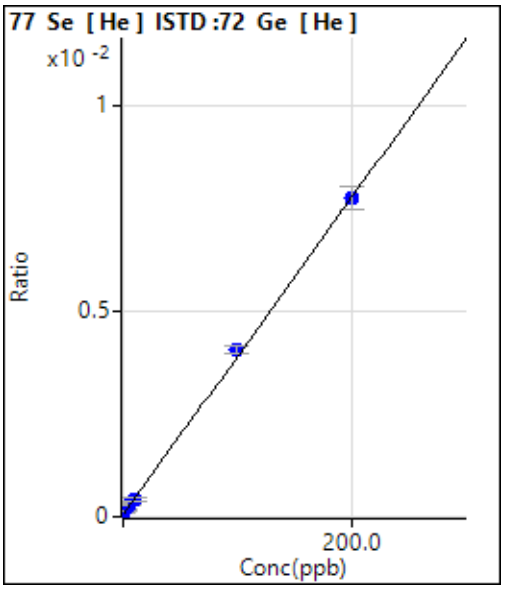
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14247.69	0.0033	P	2.4	
2	☐	2.000	6.380	16193.21	0.0037	P	0.1	219.0
3	☐	5.000	10.105	17357.99	0.0040	P	0.8	102.1
4	☐	10.000	16.915	19273.98	0.0045	P	2.9	69.1
5	☐	100.000	102.003	44787.16	0.0104	P	2.1	2.0
6	☐	200.000	198.482	72696.90	0.0172	P	2.4	-0.8

y = 7.0358E-005 * x + 0.0033
R = 0.9996
DL = 3.326 ppb
BEC = 46.45 ppb

Weight: <None>
Min Conc: <None>

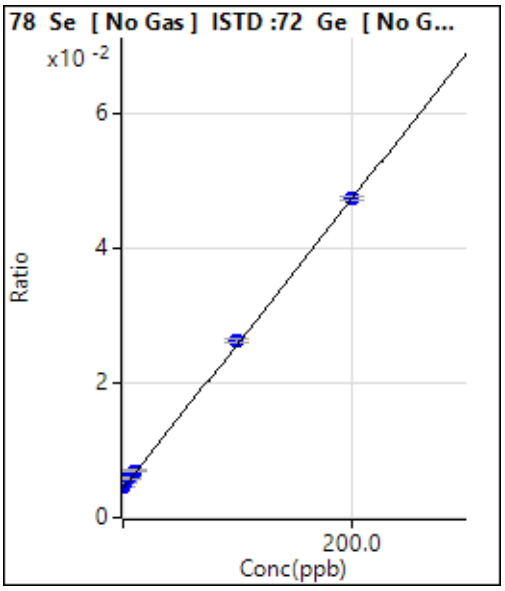


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0001	P	29.7	
2	☐	2.000	1.889	226.67	0.0002	P	23.9	-5.5
3	☐	5.000	5.021	386.68	0.0003	P	16.0	0.4
4	☐	10.000	8.676	576.69	0.0004	P	20.5	-13.2
5	☐	100.000	102.730	5444.52	0.0041	P	4.2	2.7
6	☐	200.000	198.702	10397.49	0.0077	P	7.1	-0.6

y = 3.8537E-005 * x + 9.2136E-005
R = 0.9998
DL = 2.13 ppb
BEC = 2.391 ppb

Weight: <None>
Min Conc: <None>

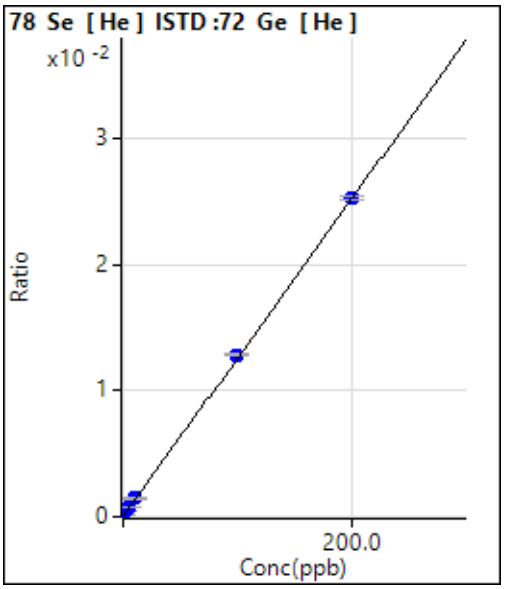
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19974.88	0.0046	P	1.1	
2	☐	2.000	3.082	22849.57	0.0052	P	2.2	54.1
3	☐	5.000	6.009	25627.78	0.0059	P	1.2	20.2
4	☐	10.000	11.047	30076.90	0.0070	P	2.4	10.5
5	☐	100.000	101.059	112838.51	0.0263	P	2.1	1.1
6	☐	200.000	199.382	200225.95	0.0475	P	1.5	-0.3

y = 2.1506E-004 * x + 0.0046
R = 1.0000
DL = 0.7244 ppb
BEC = 21.31 ppb

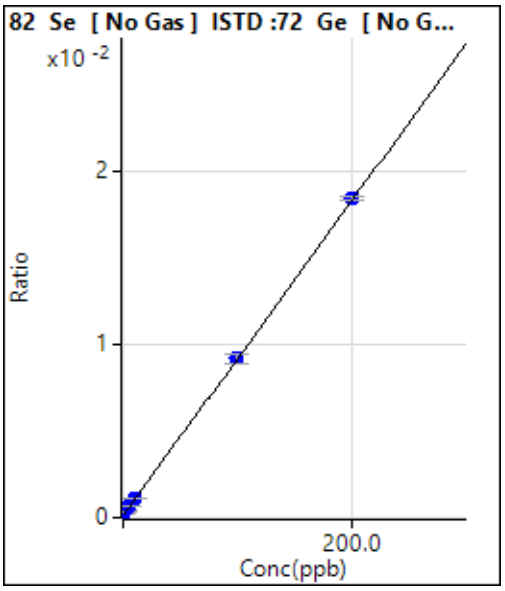
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	207.33	0.0002	P	9.0	
2	☐	2.000	2.035	560.01	0.0004	P	3.6	1.8
3	☐	5.000	4.869	1037.38	0.0008	P	3.3	-2.6
4	☐	10.000	10.420	1982.82	0.0015	P	3.5	4.2
5	☐	100.000	100.711	17278.96	0.0129	P	1.5	0.7
6	☐	200.000	199.626	33999.63	0.0253	P	0.9	-0.2

y = 1.2618E-004 * x + 1.5086E-004
R = 1.0000
DL = 0.3219 ppb
BEC = 1.196 ppb

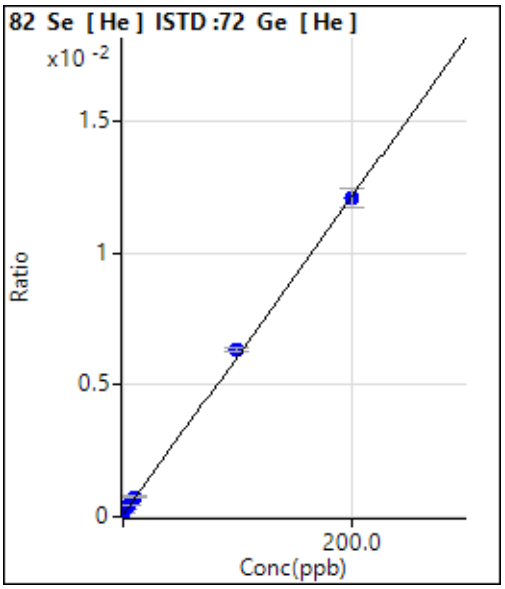
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.72	0.0002	P	11.2	
2	☐	2.000	2.170	1773.48	0.0004	P	12.5	8.5
3	☐	5.000	5.150	2953.70	0.0007	P	3.0	3.0
4	☐	10.000	9.707	4714.26	0.0011	P	5.3	-2.9
5	☐	100.000	98.591	39220.46	0.0091	P	5.7	-1.4
6	☐	200.000	200.714	77654.86	0.0184	P	1.1	0.4

y = 9.0661E-005 * x + 2.1029E-004
R = 1.0000
DL = 0.7828 ppb
BEC = 2.32 ppb

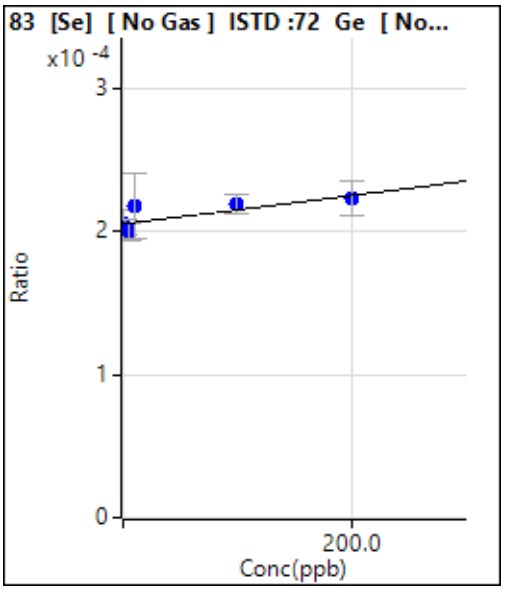
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	183.33	0.0001	P	11.2	
2	☐	2.000	2.814	416.69	0.0003	P	9.1	40.7
3	☐	5.000	4.717	566.69	0.0004	P	7.3	-5.7
4	☐	10.000	10.312	1023.39	0.0008	P	7.4	3.1
5	☐	100.000	103.225	8559.53	0.0064	P	2.7	3.2
6	☐	200.000	198.371	16249.99	0.0121	P	5.7	-0.8

y = 6.0403E-005 * x + 1.3338E-004
R = 0.9998
DL = 0.7413 ppb
BEC = 2.208 ppb

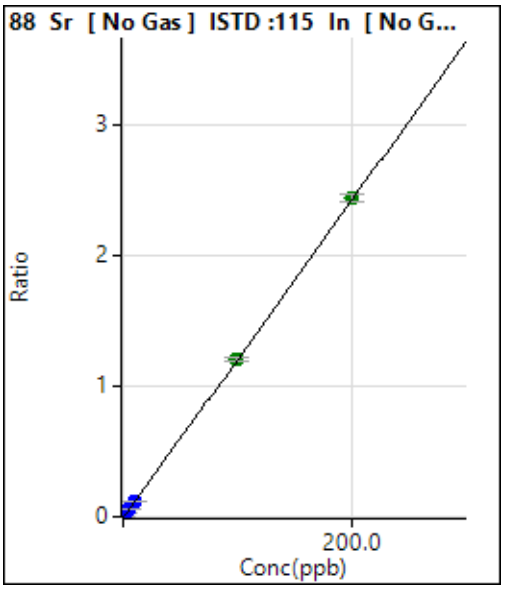
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	10.2	
2	☐	2.000	-21.422	883.38	0.0002	P	5.7	-1171.1
3	☐	5.000	-54.975	870.04	0.0002	P	6.1	-1199.5
4	☐	10.000	123.969	940.05	0.0002	P	21.2	1139.7
5	☐	100.000	133.868	936.72	0.0002	P	6.3	33.9
6	☐	200.000	179.101	940.05	0.0002	P	11.0	-10.4

y = 1.0027E-007 * x + 2.0493E-004
R = 0.7832
DL = 624.1 ppb
BEC = 2044 ppb

Weight: <None>
Min Conc: <None>

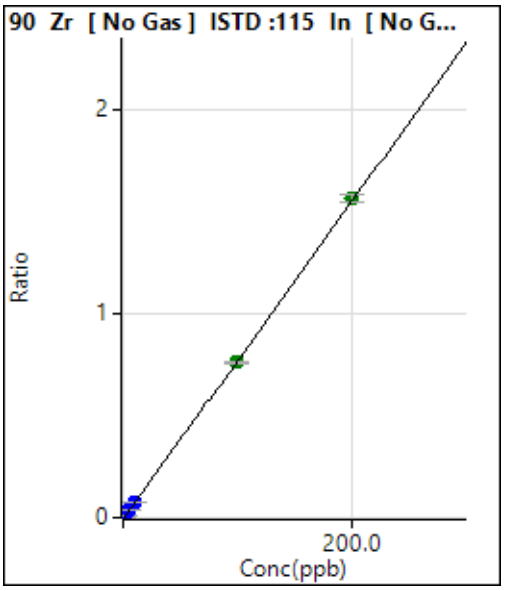


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7812.39	0.0015	P	1.5	
2	☐	2.000	2.010	133137.65	0.0260	P	1.1	0.5
3	☐	5.000	4.997	316180.22	0.0623	P	2.8	-0.1
4	☐	10.000	9.918	627104.84	0.1222	P	2.8	-0.8
5	☐	100.000	98.854	6074094.70	1.2049	A	1.7	-1.1
6	☐	200.000	200.577	11988085.24	2.4432	A	2.4	0.3

y = 0.0122 * x + 0.0015
R = 1.0000
DL = 0.005412 ppb
BEC = 0.1238 ppb

Weight: <None>
Min Conc: <None>

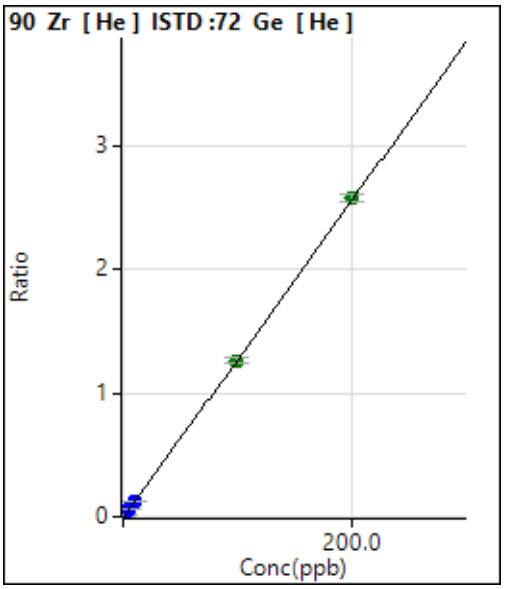
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0003	P	7.1	
2	☐	2.000	1.680	68439.61	0.0134	P	0.8	-16.0
3	☐	5.000	4.447	176951.56	0.0349	P	1.5	-11.1
4	☐	10.000	9.236	370131.15	0.0721	P	2.6	-7.6
5	☐	100.000	97.794	3837519.84	0.7612	A	1.9	-2.2
6	☐	200.000	201.158	7681848.01	1.5655	A	2.2	0.6

y = 0.0078 * x + 2.8096E-004
R = 0.9999
DL = 0.007646 ppb
BEC = 0.03611 ppb

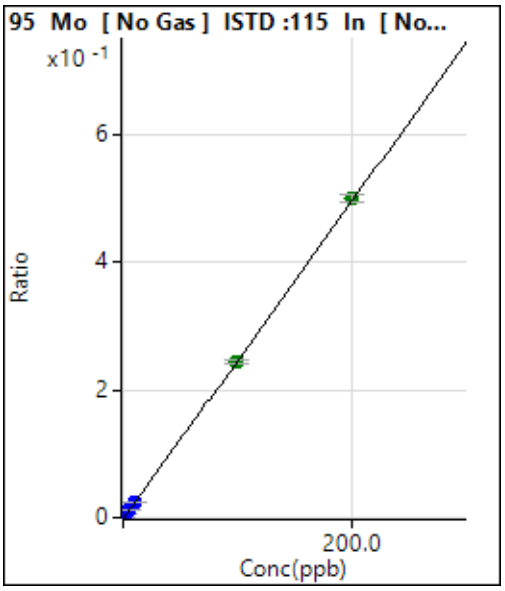
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.82	0.0013	P	10.5	
2	☐	2.000	1.645	30808.94	0.0224	P	3.3	-17.7
3	☐	5.000	4.338	77311.14	0.0570	P	1.9	-13.2
4	☐	10.000	9.413	165455.46	0.1223	P	1.6	-5.9
5	☐	100.000	98.526	1703700.91	1.2680	A	2.8	-1.5
6	☐	200.000	200.786	3465216.30	2.5826	A	1.9	0.4

y = 0.0129 * x + 0.0013
R = 1.0000
DL = 0.03127 ppb
BEC = 0.09942 ppb

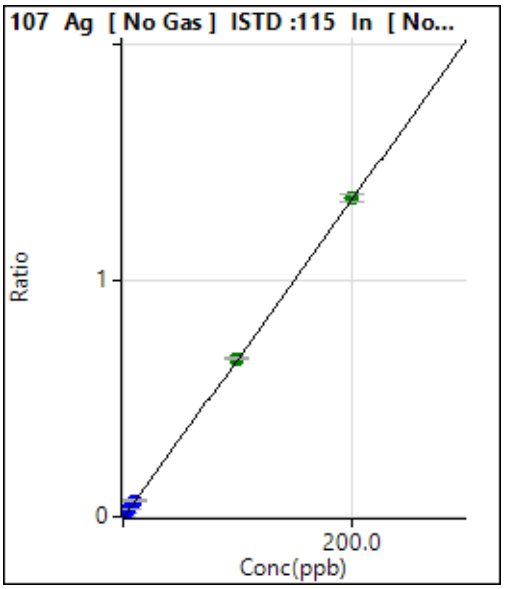
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	7.2	
2	☐	2.000	1.969	25327.51	0.0049	P	3.4	-1.6
3	☐	5.000	4.905	62170.55	0.0123	P	1.8	-1.9
4	☐	10.000	9.766	125029.71	0.0244	P	1.9	-2.3
5	☐	100.000	97.895	1229887.35	0.2440	A	2.1	-2.1
6	☐	200.000	201.067	2458478.61	0.5011	A	2.7	0.5

y = 0.0025 * x + 3.6018E-005
R = 0.9999
DL = 0.003127 ppb
BEC = 0.01445 ppb

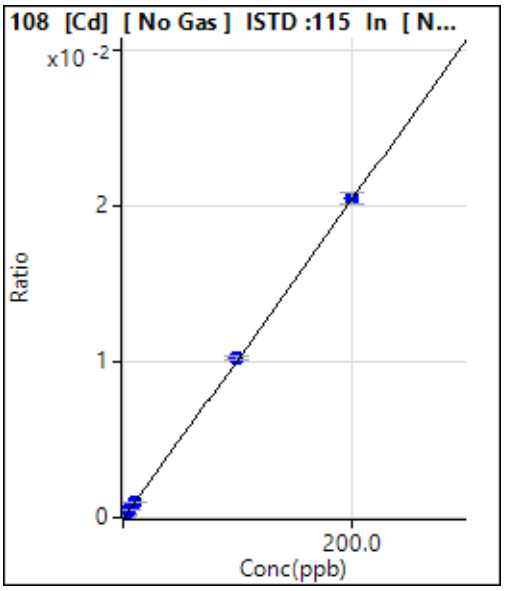
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0001	P	15.7	
2	☐	2.000	2.047	71175.99	0.0139	P	1.9	2.4
3	☐	5.000	5.143	176036.40	0.0347	P	2.4	2.9
4	☐	10.000	10.175	351688.51	0.0685	P	1.6	1.7
5	☐	100.000	99.331	3368375.68	0.6682	A	1.7	-0.7
6	☐	200.000	200.322	6611304.90	1.3474	A	2.7	0.2

y = 0.0067 * x + 1.1626E-004
R = 1.0000
DL = 0.00812 ppb
BEC = 0.01729 ppb

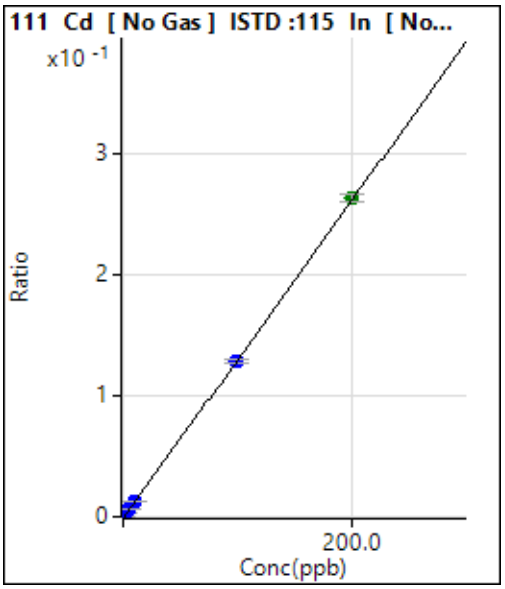
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.734	913.38	0.0002	P	16.7	-13.3
3	☐	5.000	4.931	2563.64	0.0005	P	10.4	-1.4
4	☐	10.000	9.680	5087.73	0.0010	P	10.4	-3.2
5	☐	100.000	99.811	51532.94	0.0102	P	2.6	-0.2
6	☐	200.000	200.115	100560.89	0.0205	P	3.3	0.1

y = 1.0241E-004 * x + 6.4510E-007
R = 1.0000
DL = 0.03273 ppb
BEC = 0.006299 ppb

Weight: <None>
Min Conc: <None>

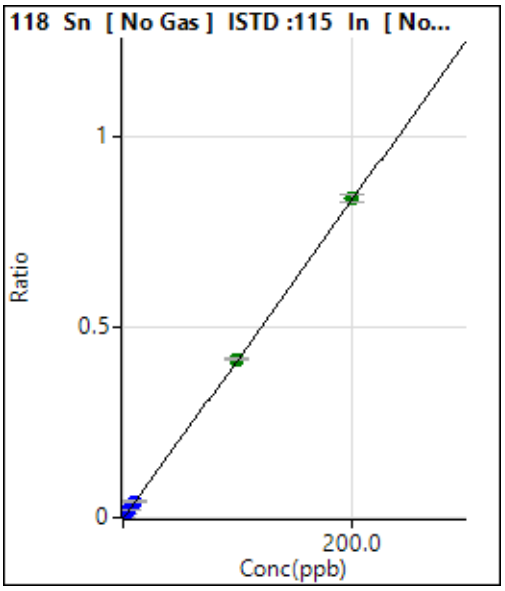


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.24	0.0000	P	-3402.	
2	☐	2.000	2.073	13928.58	0.0027	P	8.9	3.7
3	☐	5.000	4.982	33117.89	0.0065	P	1.3	-0.4
4	☐	10.000	9.978	67081.60	0.0131	P	2.0	-0.2
5	☐	100.000	98.478	650560.95	0.1291	P	2.3	-1.5
6	☐	200.000	200.762	1290978.25	0.2631	A	2.5	0.4

y = 0.0013 * x - 5.8477E-008
R = 1.0000
DL = 0.004555 ppb
BEC = -4.462E-05 ppb

Weight: <None>
Min Conc: <None>

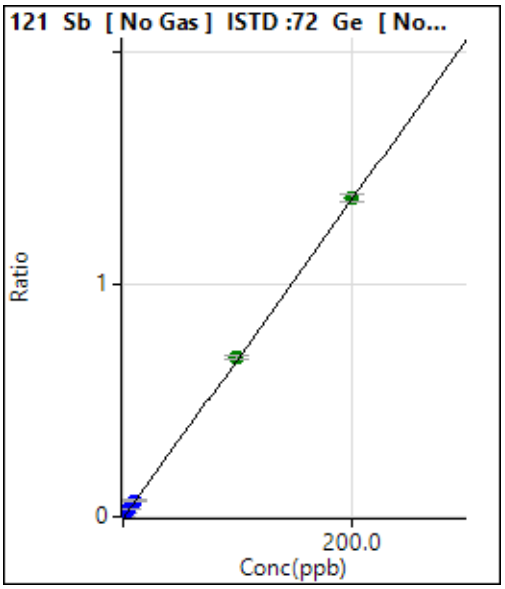
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4667.58	0.0009	P	7.7	
2	☐	2.000	1.978	46879.95	0.0091	P	2.3	-1.1
3	☐	5.000	4.924	108709.76	0.0214	P	2.0	-1.5
4	☐	10.000	10.030	219191.69	0.0427	P	1.7	0.3
5	☐	100.000	99.268	2091126.43	0.4148	A	1.5	-0.7
6	☐	200.000	200.367	4103949.42	0.8364	A	2.2	0.2

y = 0.0042 * x + 9.0048E-004
R = 1.0000
DL = 0.04998 ppb
BEC = 0.216 ppb

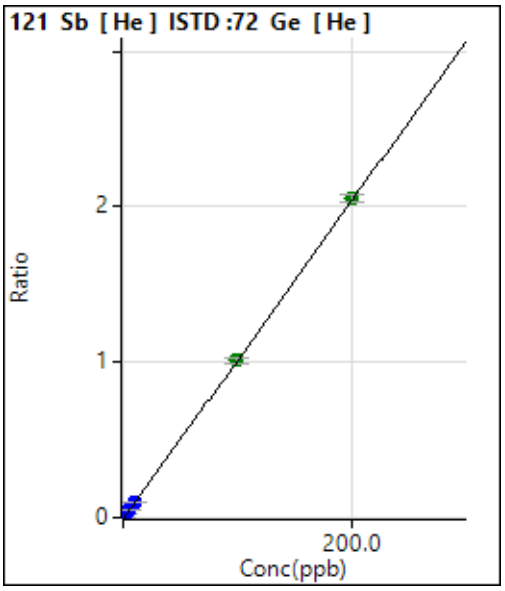
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.69	0.0001	P	7.2	
2	☐	2.000	1.996	60063.03	0.0138	P	3.0	-0.2
3	☐	5.000	4.948	148398.70	0.0340	P	2.6	-1.0
4	☐	10.000	10.187	302257.92	0.0699	P	2.2	1.9
5	☐	100.000	99.551	2926320.48	0.6825	A	2.4	-0.4
6	☐	200.000	200.217	5789795.33	1.3725	A	2.3	0.1

y = 0.0069 * x + 1.0707E-004
R = 1.0000
DL = 0.003375 ppb
BEC = 0.01562 ppb

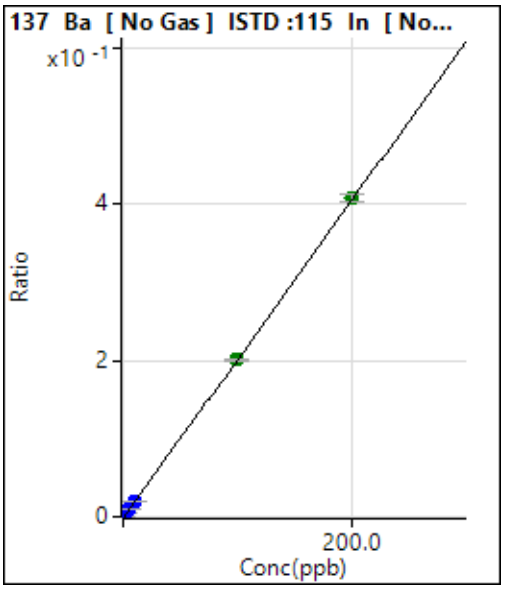
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0002	P	22.6	
2	☐	2.000	1.945	27609.22	0.0201	P	1.3	-2.7
3	☐	5.000	4.873	67863.70	0.0501	P	2.1	-2.5
4	☐	10.000	9.941	137943.19	0.1020	P	3.9	-0.6
5	☐	100.000	98.722	1358293.83	1.0109	A	3.0	-1.3
6	☐	200.000	200.646	2756499.75	2.0544	A	2.1	0.3

y = 0.0102 * x + 1.8430E-004
R = 1.0000
DL = 0.01221 ppb
BEC = 0.018 ppb

Weight: <None>
Min Conc: <None>

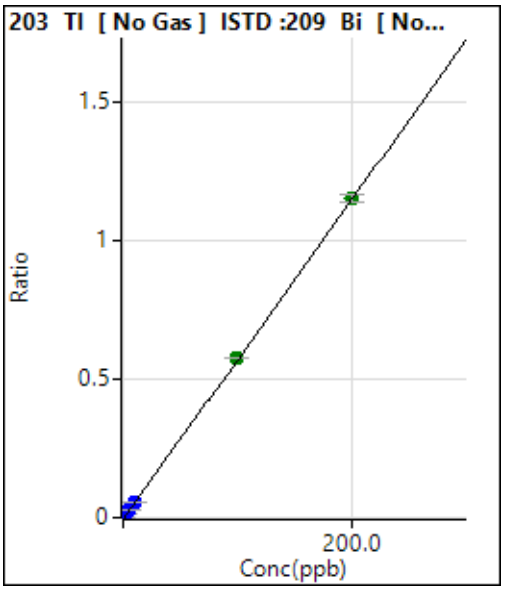


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0002	P	4.1	
2	☐	2.000	2.070	22452.86	0.0044	P	2.7	3.5
3	☐	5.000	5.103	53499.26	0.0105	P	2.6	2.1
4	☐	10.000	9.952	104682.67	0.0204	P	2.0	-0.5
5	☐	100.000	98.825	1013632.77	0.2011	A	1.2	-1.2
6	☐	200.000	200.587	2001738.25	0.4079	A	2.5	0.3

y = 0.0020 * x + 1.7291E-004
R = 1.0000
DL = 0.01052 ppb
BEC = 0.08506 ppb

Weight: <None>
Min Conc: <None>

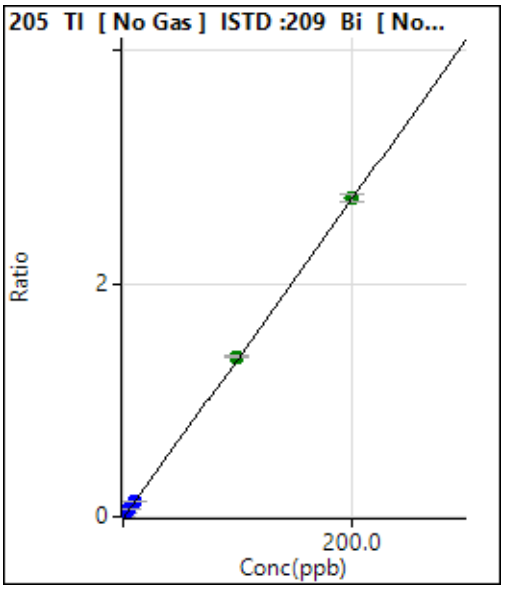
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0000	P	35.9	
2	☐	2.000	1.982	52667.60	0.0114	P	2.8	-0.9
3	☐	5.000	4.926	131454.82	0.0284	P	2.2	-1.5
4	☐	10.000	9.872	263846.17	0.0569	P	1.7	-1.3
5	☐	100.000	100.064	2587898.45	0.5765	A	1.0	0.1
6	☐	200.000	199.977	5103374.92	1.1522	A	2.7	0.0

y = 0.0058 * x + 2.4422E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.004239 ppb

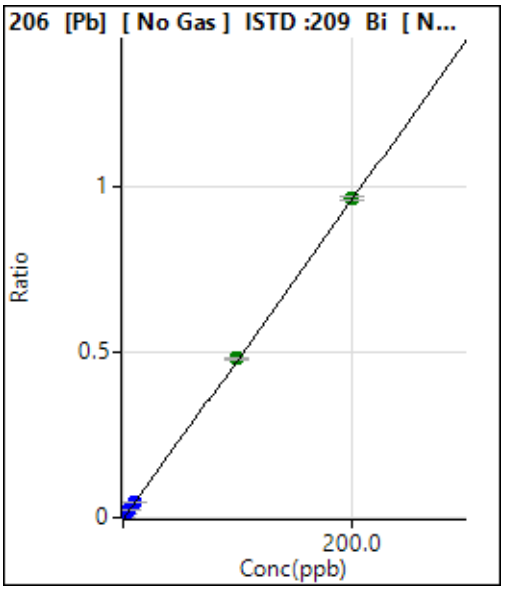
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	18.8	
2	☐	2.000	1.973	124291.66	0.0270	P	2.0	-1.4
3	☐	5.000	4.897	310000.76	0.0670	P	1.0	-2.1
4	☐	10.000	9.845	624127.84	0.1346	P	1.3	-1.6
5	☐	100.000	100.082	6140256.16	1.3679	A	1.3	0.1
6	☐	200.000	199.970	12105944.40	2.7331	A	2.4	0.0

y = 0.0137 * x + 5.2440E-005
R = 1.0000
DL = 0.002162 ppb
BEC = 0.003837 ppb

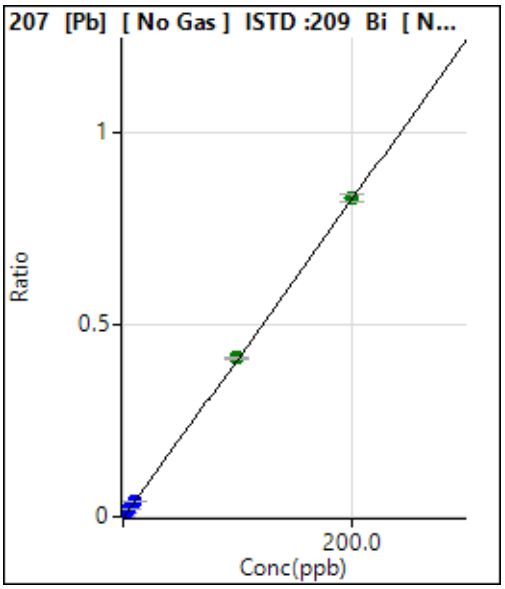
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0001	P	9.2	
2	☐	2.000	2.006	44870.50	0.0098	P	2.0	0.3
3	☐	5.000	4.984	111428.16	0.0241	P	1.6	-0.3
4	☐	10.000	10.031	224207.78	0.0484	P	1.3	0.3
5	☐	100.000	99.533	2149761.58	0.4789	A	1.2	-0.5
6	☐	200.000	200.232	4267185.87	0.9634	A	1.6	0.1

y = 0.0048 * x + 1.0056E-004
R = 1.0000
DL = 0.005757 ppb
BEC = 0.0209 ppb

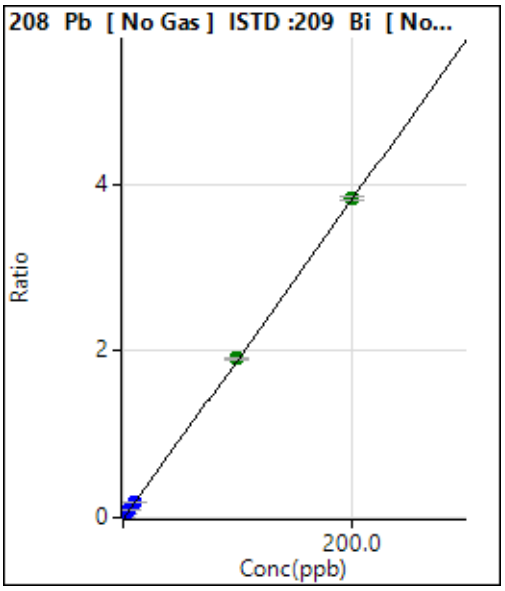
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	420.02	0.0001	P	33.4	
2	☐	2.000	1.969	37961.12	0.0083	P	2.3	-1.5
3	☐	5.000	4.940	95165.85	0.0206	P	1.3	-1.2
4	☐	10.000	9.983	192215.65	0.0415	P	1.2	-0.2
5	☐	100.000	99.707	1854863.41	0.4132	A	1.1	-0.3
6	☐	200.000	200.149	3673857.97	0.8294	A	2.0	0.1

y = 0.0041 * x + 9.0507E-005
R = 1.0000
DL = 0.02192 ppb
BEC = 0.02184 ppb

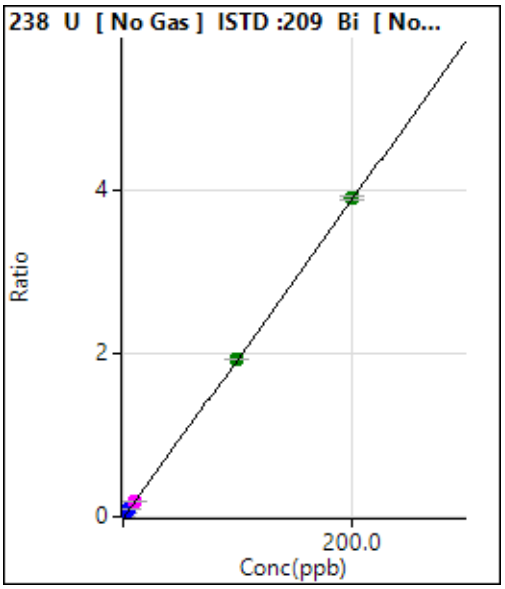
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1946.76	0.0004	P	9.2	
2	☐	2.000	1.988	177134.63	0.0385	P	2.0	-0.6
3	☐	5.000	4.957	441414.48	0.0954	P	1.3	-0.9
4	☐	10.000	10.011	891156.12	0.1922	P	1.1	0.1
5	☐	100.000	99.856	8588625.03	1.9134	A	1.3	-0.1
6	☐	200.000	200.073	16978853.50	3.8332	A	1.8	0.0

y = 0.0192 * x + 4.1940E-004
R = 1.0000
DL = 0.006041 ppb
BEC = 0.02189 ppb

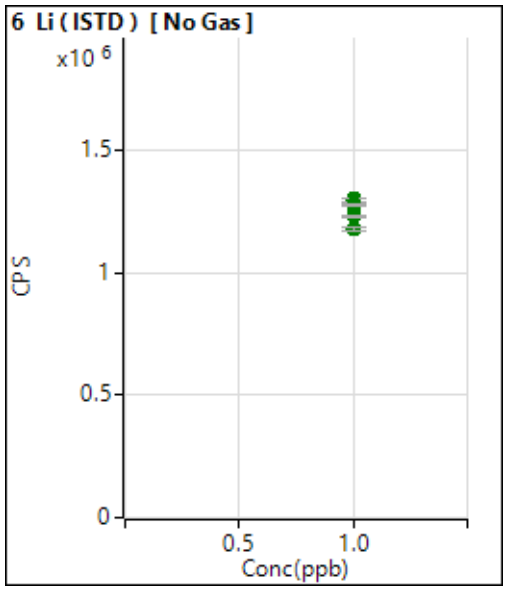
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Min Conc: <None>



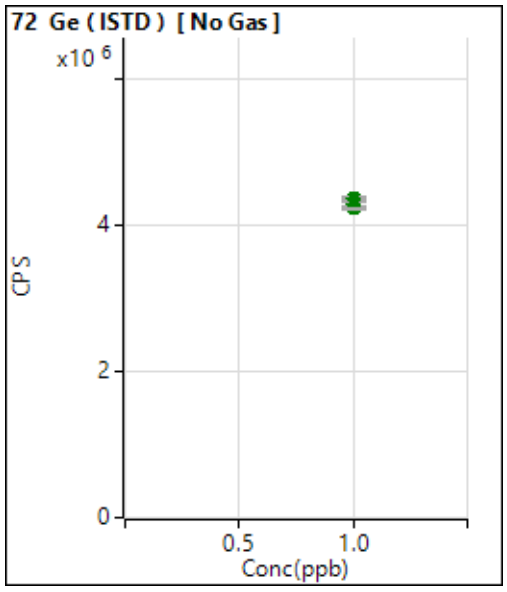
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	12.0	
2	☐	2.000	1.890	170411.61	0.0370	P	2.4	-5.5
3	☐	5.000	4.711	426581.55	0.0922	P	1.2	-5.8
4	☐	10.000	9.582	868651.94	0.1873	M	2.0	-4.2
5	☐	100.000	99.206	8699904.46	1.9384	A	0.6	-0.8
6	☐	200.000	200.426	17346070.99	3.9161	A	1.8	0.2

y = 0.0195 * x + 1.1772E-004
R = 1.0000
DL = 0.002167 ppb
BEC = 0.006025 ppb

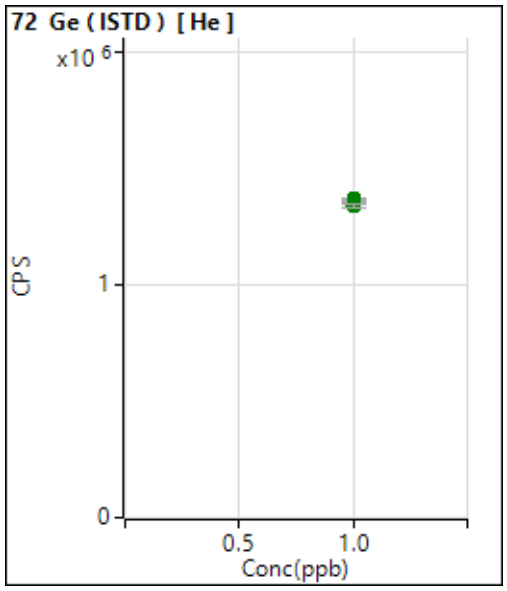
Weight: <None>
Min Conc: <None>



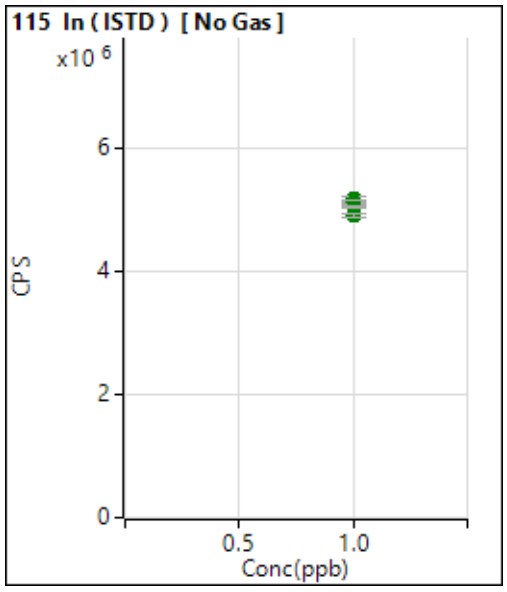
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1303313.05		A	0.4	
2	☐	1.000		1293096.02		A	1.6	
3	☐	1.000		1283534.37		A	0.3	
4	☐	1.000		1275635.33		A	0.1	
5	☐	1.000		1229032.35		A	0.2	
6	☐	1.000		1176331.61		A	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4359457.85		A	0.3	
2	☐	1.000		4356546.60		A	0.3	
3	☐	1.000		4362439.94		A	0.8	
4	☐	1.000		4322696.60		A	0.9	
5	☐	1.000		4288391.50		A	0.9	
6	☐	1.000		4218912.75		A	0.6	

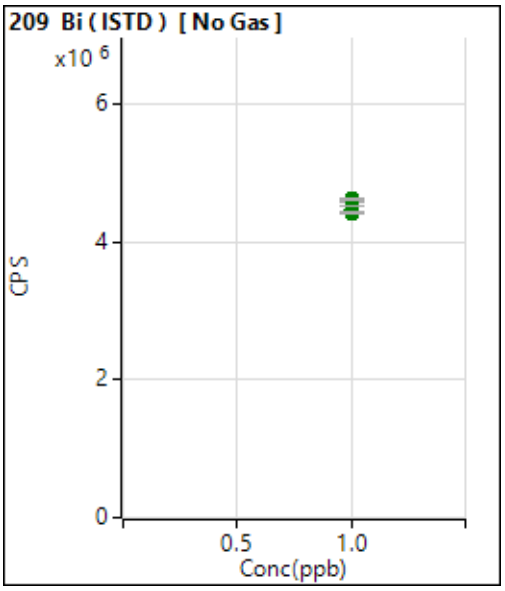


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1374323.41		A	0.2	
2	☐	1.000		1373552.69		A	0.4	
3	☐	1.000		1355522.32		A	1.2	
4	☐	1.000		1352998.88		A	0.5	
5	☐	1.000		1343953.73		A	1.3	
6	☐	1.000		1341850.97		A	1.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5185395.31		A	1.3	
2	☐	1.000		5125227.36		A	0.7	
3	☐	1.000		5072595.80		A	0.8	
4	☐	1.000		5131137.70		A	1.1	
5	☐	1.000		5041006.13		A	0.2	
6	☐	1.000		4907591.41		A	1.2	

Calibration for 105_ICV.d



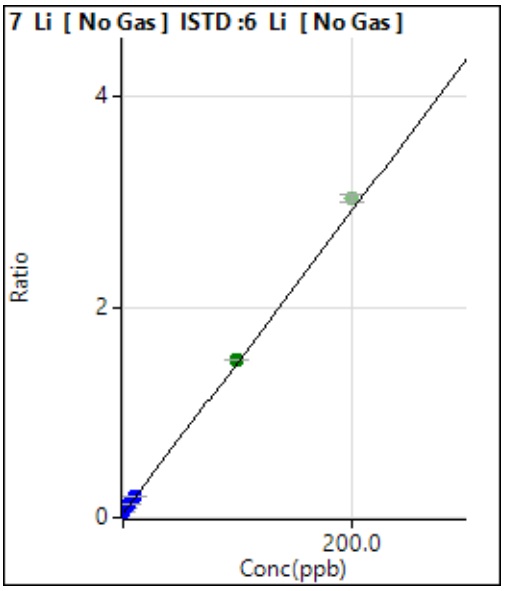
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4642202.64		A	0.5	
2	☐	1.000		4601017.85		A	0.3	
3	☐	1.000		4628663.99		A	1.0	
4	☐	1.000		4636493.99		A	0.6	
5	☐	1.000		4488256.81		A	1.3	
6	☐	1.000		4429482.12		A	0.6	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/29/2024 10:29:10 AM
2	011CALS.d	2/10/200	5/29/2024 10:31:53 AM
3	012CALS.d	5/25/500	5/29/2024 10:34:33 AM
4	013CALS.d	10/50/100	5/29/2024 10:37:14 AM
5	014CALS.d	100/500/10K	5/29/2024 10:39:53 AM
6	015CALS.d	200/1000/20K	5/29/2024 10:42:34 AM

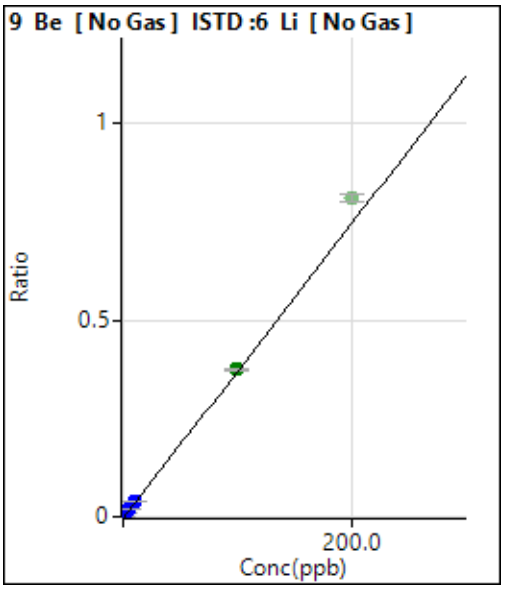
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80608.82	0.0564	P	0.6	
2	☐	2.000	1.915	118924.25	0.0839	P	1.8	-4.3
3	☐	5.000	4.805	177155.72	0.1254	P	1.1	-3.9
4	☐	10.000	9.859	276433.86	0.1979	P	1.8	-1.4
5	☐	100.000	100.026	2035333.98	1.4921	A	0.3	0.0
6	☑	200.000		4040253.07	3.0340	A	2.2	

y = 0.0144 * x + 0.0564
R = 1.0000
DL = 0.0661 ppb
BEC = 3.929 ppb

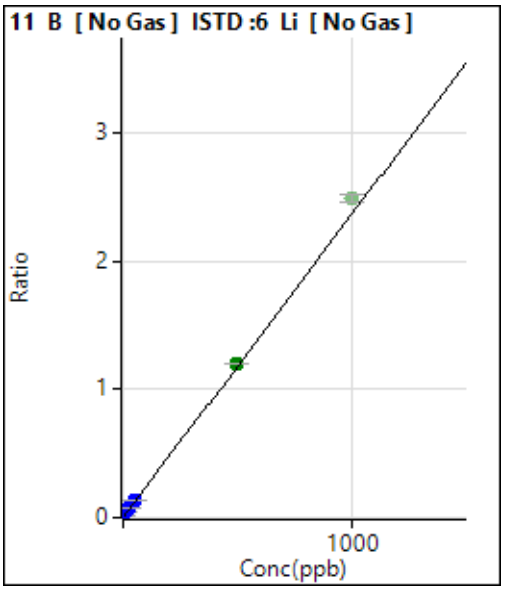
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	29.8	
2	☐	2.000	1.973	10535.64	0.0074	P	2.5	-1.3
3	☐	5.000	5.123	27189.46	0.0192	P	4.0	2.5
4	☐	10.000	10.215	53544.03	0.0383	P	2.3	2.1
5	☐	100.000	99.973	511366.74	0.3749	A	1.6	0.0
6	☑	200.000		1080146.81	0.8112	A	2.9	

y = 0.0037 * x + 3.1507E-005
R = 1.0000
DL = 0.007517 ppb
BEC = 0.008403 ppb

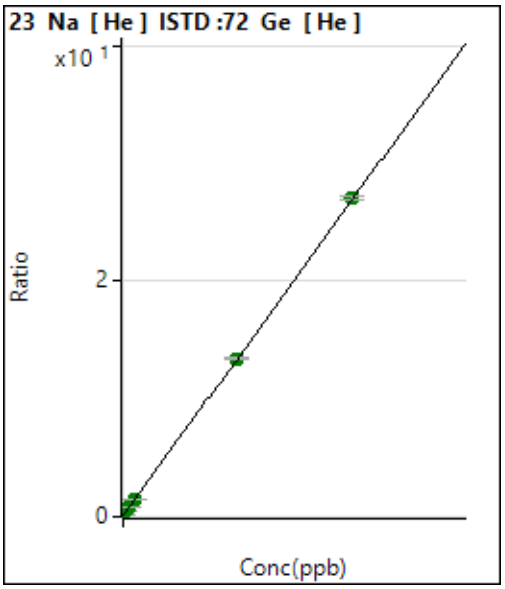
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21621.56	0.0151	P	0.6	
2	☐	10.000	9.925	54689.72	0.0386	P	2.4	-0.7
3	☐	25.000	24.428	102913.21	0.0728	P	1.8	-2.3
4	☐	50.000	49.030	182918.51	0.1310	P	1.8	-1.9
5	☐	500.000	500.127	1632269.56	1.1966	A	0.3	0.0
6	☑	1000.000		3317099.85	2.4910	A	2.5	

y = 0.0024 * x + 0.0151
R = 1.0000
DL = 0.1162 ppb
BEC = 6.403 ppb

Weight: <None>
Min Conc: <None>

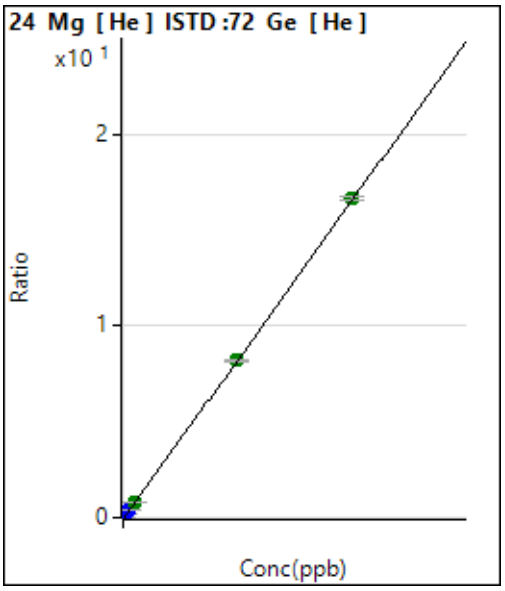


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293767.90	0.2310	P	0.9	
2	☐	200.000	186.715	599579.52	0.4806	A	1.3	-6.6
3	☐	500.000	463.850	1063923.00	0.8512	A	2.0	-7.2
4	☐	1000.000	975.818	1902532.99	1.5358	A	1.0	-2.4
5	☐	10000.00	9868.769	16300522.26	13.4275	A	1.5	-1.3
6	☐	20000.00	20067.86	32693223.68	27.0657	A	1.3	0.3

y = 0.0013 * x + 0.2310
R = 1.0000
DL = 4.627 ppb
BEC = 172.7 ppb

Weight: <None>
Min Conc: <None>

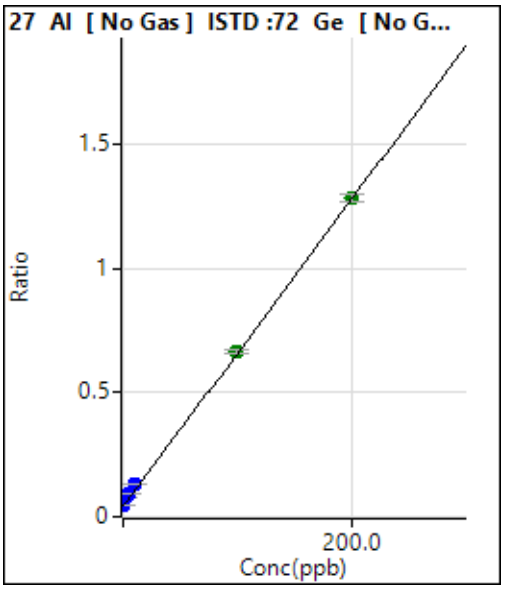
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.11	0.0012	P	7.2	
2	☐	200.000	190.029	198415.28	0.1590	P	2.0	-5.0
3	☐	500.000	473.233	492752.78	0.3942	P	2.3	-5.4
4	☐	1000.000	982.084	1011830.79	0.8168	A	1.5	-1.8
5	☐	10000.00	9871.318	9953434.64	8.1990	A	1.8	-1.3
6	☐	20000.00	20066.00	20130258.03	16.6653	A	1.3	0.3

y = 8.3046E-004 * x + 0.0012
R = 1.0000
DL = 0.322 ppb
BEC = 1.486 ppb

Weight: <None>
Min Conc: <None>

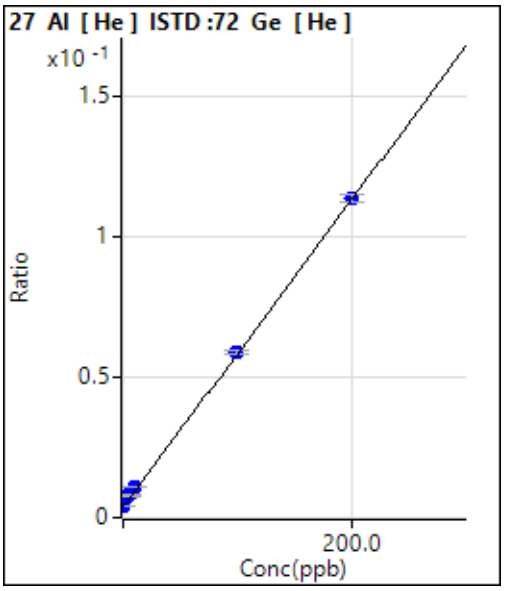


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	199746.04	0.0476	P	2.1	
2	☐	2.000	4.336	309293.57	0.0744	P	1.6	116.8
3	☐	5.000	7.410	384926.87	0.0934	P	1.4	48.2
4	☐	10.000	13.278	530705.45	0.1297	P	2.5	32.8
5	☐	100.000	99.883	2665271.94	0.6646	A	1.8	-0.1
6	☐	200.000	199.811	5111843.57	1.2819	A	1.8	-0.1

y = 0.0062 * x + 0.0476
R = 0.9999
DL = 0.4777 ppb
BEC = 7.711 ppb

Weight: <None>
Min Conc: <None>

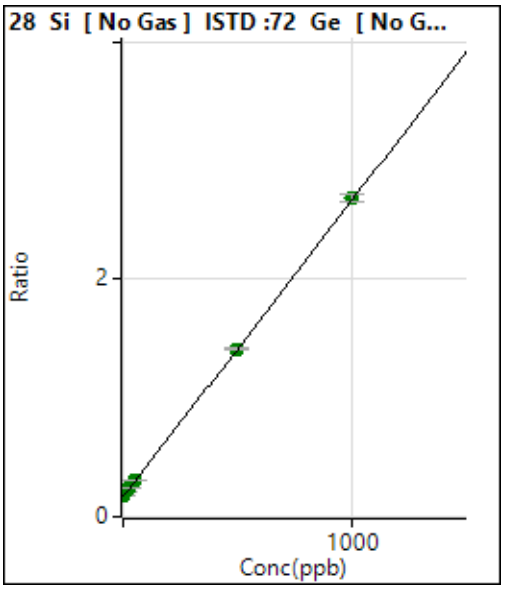
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5504.52	0.0043	P	4.9	
2	☐	2.000	4.473	8456.00	0.0068	P	1.5	123.6
3	☐	5.000	6.621	9940.35	0.0080	P	5.1	32.4
4	☐	10.000	12.536	13867.03	0.0112	P	0.1	25.4
5	☐	100.000	99.951	71713.01	0.0591	P	2.1	0.0
6	☐	200.000	199.832	137433.59	0.1138	P	2.0	-0.1

y = 5.4772E-004 * x + 0.0043
R = 0.9999
DL = 1.165 ppb
BEC = 7.901 ppb

Weight: <None>
Min Conc: <None>

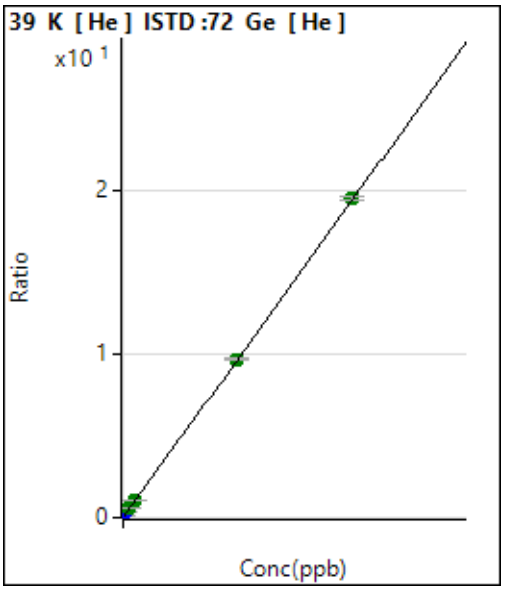


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	762259.39	0.1818	A	0.3	
2	☐	10.000	9.676	855730.90	0.2059	A	0.6	-3.2
3	☐	25.000	24.069	996524.02	0.2418	A	0.6	-3.7
4	☐	50.000	47.884	1233003.63	0.3012	A	0.8	-4.2
5	☐	500.000	492.650	5657539.50	1.4108	A	1.4	-1.5
6	☐	1000.000	1003.807	10710766.09	2.6860	A	2.1	0.4

y = 0.0025 * x + 0.1818
R = 1.0000
DL = 0.7144 ppb
BEC = 72.86 ppb

Weight: <None>
Min Conc: <None>

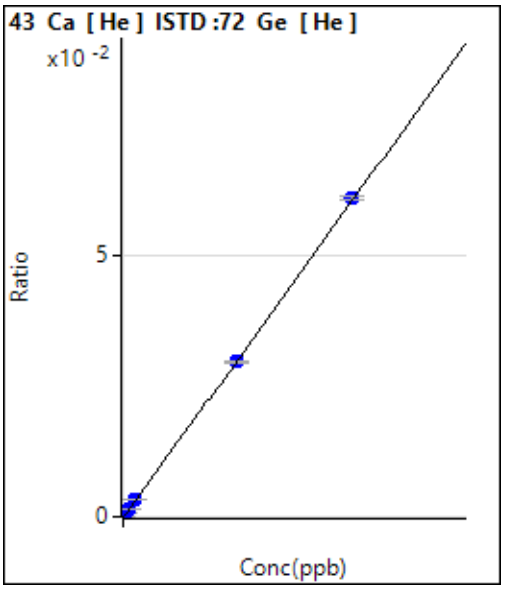
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147083.61	0.1156	P	1.8	
2	☐	200.000	190.956	375395.23	0.3009	P	1.8	-4.5
3	☐	500.000	474.351	719843.82	0.5759	A	1.6	-5.1
4	☐	1000.000	981.991	1323558.68	1.0684	A	1.2	-1.8
5	☐	10000.00	9883.309	11781614.41	9.7052	A	1.1	-1.2
6	☐	20000.00	20059.97	23650084.65	19.5795	A	0.6	0.3

y = 9.7028E-004 * x + 0.1156
R = 1.0000
DL = 6.352 ppb
BEC = 119.2 ppb

Weight: <None>
Min Conc: <None>

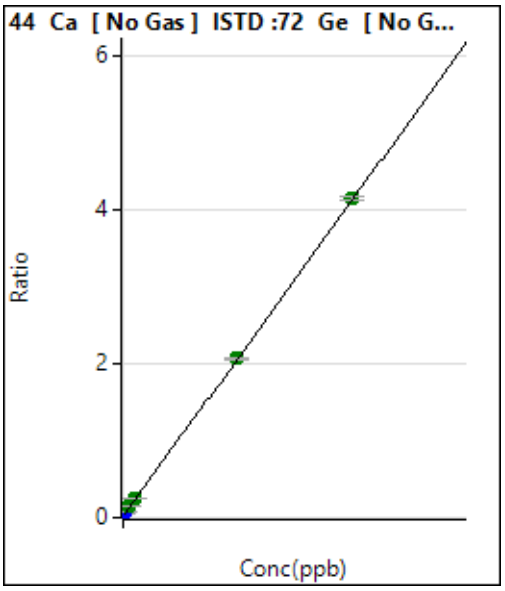


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	40.5	
2	☐	200.000	218.153	920.05	0.0007	P	11.2	9.1
3	☐	500.000	470.856	1876.83	0.0015	P	2.3	-5.8
4	☐	1000.000	1032.924	3963.98	0.0032	P	2.2	3.3
5	☐	10000.00	9762.944	35906.67	0.0296	P	1.6	-2.4
6	☐	20000.00	20117.42	73516.84	0.0609	P	1.3	0.6

y = 3.0216E-006 * x + 7.8699E-005
R = 0.9999
DL = 31.64 ppb
BEC = 26.05 ppb

Weight: <None>
Min Conc: <None>

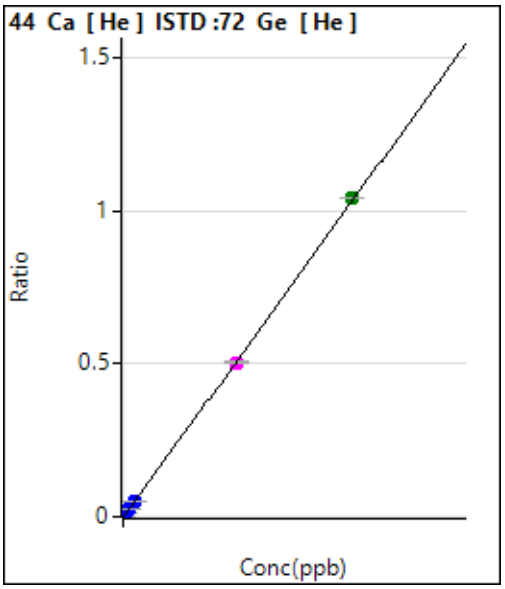
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	168054.53	0.0401	P	1.3	
2	☐	200.000	211.947	347107.31	0.0835	P	1.1	6.0
3	☐	500.000	519.192	603721.05	0.1465	A	2.0	3.8
4	☐	1000.000	1014.017	1014859.10	0.2479	A	1.8	1.4
5	☐	10000.00	9884.048	8285584.87	2.0661	A	2.0	-1.2
6	☐	20000.00	20056.67	16554127.67	4.1514	A	1.7	0.3

y = 2.0498E-004 * x + 0.0401
R = 1.0000
DL = 7.759 ppb
BEC = 195.5 ppb

Weight: <None>
Min Conc: <None>

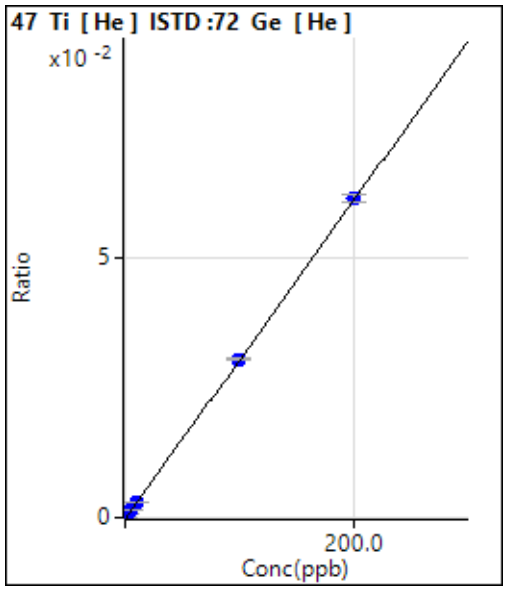


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3213.76	0.0025	P	5.8	
2	☐	200.000	200.944	16106.25	0.0129	P	3.8	0.5
3	☐	500.000	477.402	34005.20	0.0272	P	1.9	-4.5
4	☐	1000.000	969.881	65226.06	0.0527	P	2.3	-3.0
5	☐	10000.00	9732.564	613747.44	0.5056	M	2.0	-2.7
6	☐	20000.00	20135.77	1260152.89	1.0433	A	0.3	0.7

y = 5.1686E-005 * x + 0.0025
R = 0.9999
DL = 8.47 ppb
BEC = 48.9 ppb

Weight: <None>
Min Conc: <None>

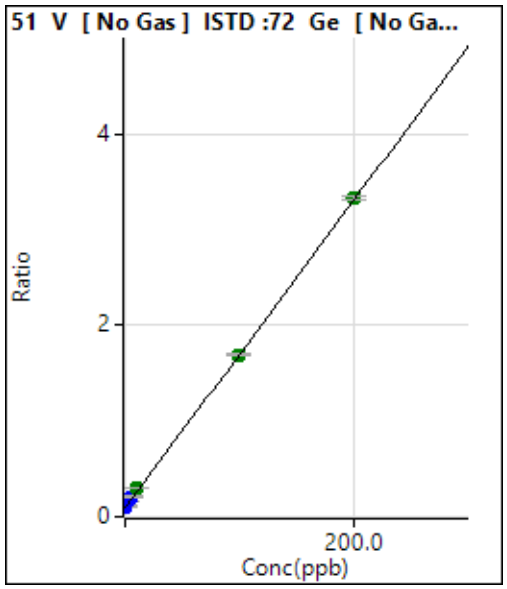
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	68.6	
2	☐	2.000	1.954	763.37	0.0006	P	9.7	-2.3
3	☐	5.000	4.627	1786.82	0.0014	P	6.6	-7.5
4	☐	10.000	9.726	3707.23	0.0030	P	7.7	-2.7
5	☐	100.000	99.266	36919.31	0.0304	P	1.3	-0.7
6	☐	200.000	200.390	74143.89	0.0614	P	1.9	0.2

y = 3.0624E-004 * x + 1.3064E-005
R = 1.0000
DL = 0.08776 ppb
BEC = 0.04266 ppb

Weight: <None>
Min Conc: <None>

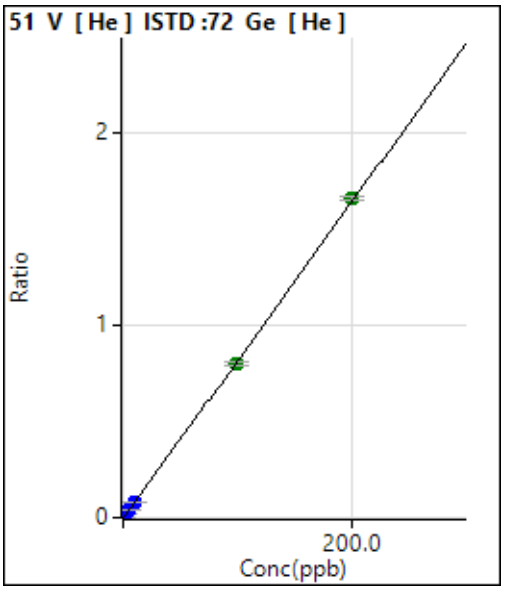


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461834.39	0.1101	P	0.5	
2	☐	2.000	2.988	657127.26	0.1581	P	1.1	49.4
3	☐	5.000	6.251	867554.09	0.2105	P	1.7	25.0
4	☐	10.000	11.736	1222300.28	0.2986	A	1.3	17.4
5	☐	100.000	98.623	6793375.79	1.6940	A	1.7	-1.4
6	☐	200.000	200.560	13283594.36	3.3312	A	1.4	0.3

y = 0.0161 * x + 0.1101
R = 0.9999
DL = 0.1124 ppb
BEC = 6.857 ppb

Weight: <None>
Min Conc: <None>

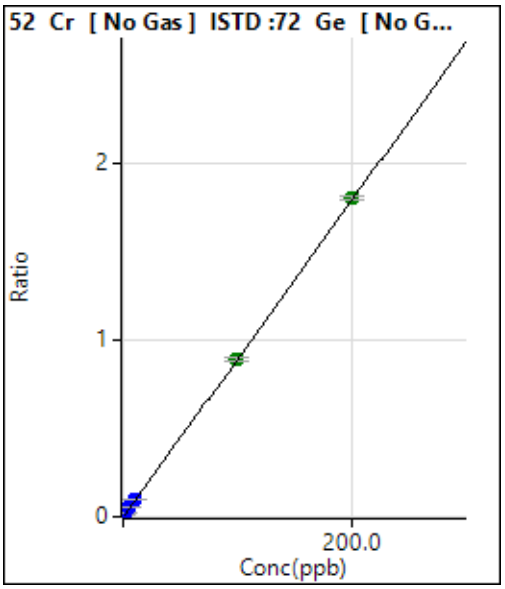
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3734.97	0.0029	P	3.3	
2	☐	2.000	1.910	23221.71	0.0186	P	3.0	-4.5
3	☐	5.000	4.791	52840.29	0.0423	P	3.2	-4.2
4	☐	10.000	9.752	102838.41	0.0830	P	1.5	-2.5
5	☐	100.000	97.243	972969.82	0.8015	A	2.1	-2.8
6	☐	200.000	201.397	2001199.57	1.6567	A	0.8	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.03565 ppb
BEC = 0.3575 ppb

Weight: <None>
Min Conc: <None>

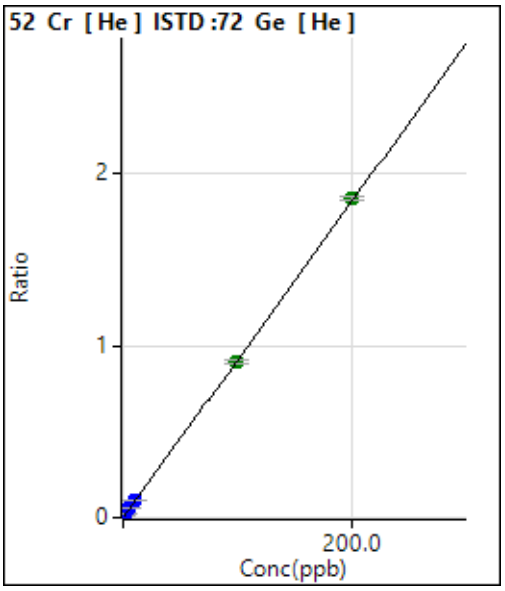


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25513.80	0.0061	P	0.7	
2	☐	2.000	2.049	101436.18	0.0244	P	0.6	2.4
3	☐	5.000	5.010	209728.65	0.0509	P	2.8	0.2
4	☐	10.000	10.075	393690.85	0.0962	P	3.0	0.7
5	☐	100.000	98.818	3568302.24	0.8898	A	1.8	-1.2
6	☐	200.000	200.587	7177513.85	1.7999	A	1.7	0.3

y = 0.0089 * x + 0.0061
R = 1.0000
DL = 0.01407 ppb
BEC = 0.6803 ppb

Weight: <None>
Min Conc: <None>

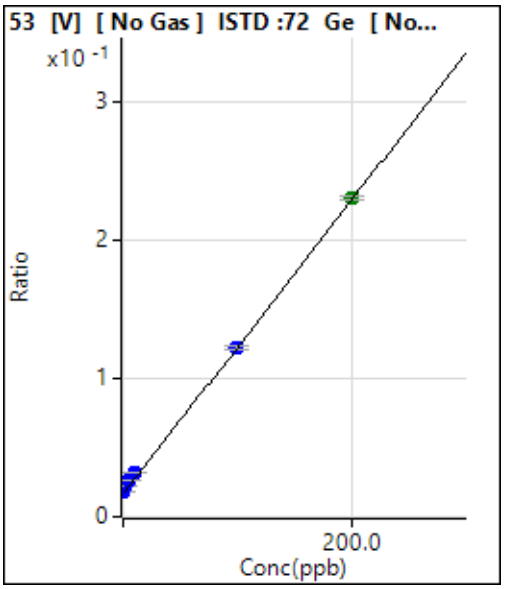
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11488.27	0.0090	P	5.2	
2	☐	2.000	1.952	33644.44	0.0270	P	2.0	-2.4
3	☐	5.000	4.921	67819.51	0.0543	P	3.6	-1.6
4	☐	10.000	9.915	124075.61	0.1002	P	1.3	-0.9
5	☐	100.000	97.776	1102025.32	0.9077	A	2.7	-2.2
6	☐	200.000	201.119	2243865.12	1.8576	A	1.0	0.6

y = 0.0092 * x + 0.0090
R = 0.9999
DL = 0.1524 ppb
BEC = 0.9824 ppb

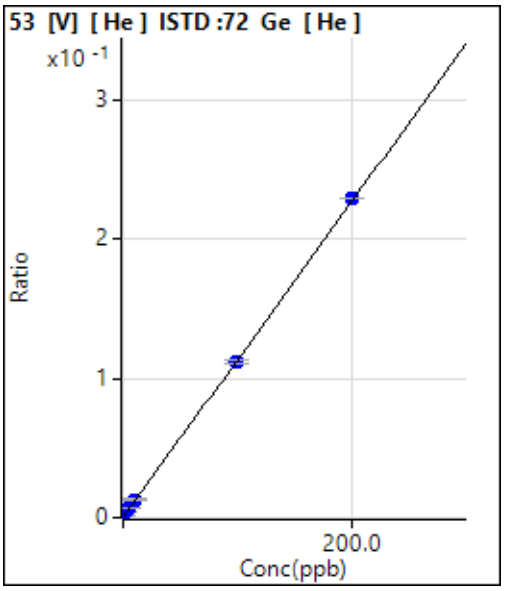
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73809.56	0.0176	P	1.5	
2	☐	2.000	4.588	93380.15	0.0225	P	2.0	129.4
3	☐	5.000	8.050	107743.59	0.0261	P	1.2	61.0
4	☐	10.000	13.809	132031.80	0.0323	P	0.9	38.1
5	☐	100.000	98.709	490674.39	0.1224	P	2.1	-1.3
6	☐	200.000	200.353	918086.91	0.2302	A	1.4	0.2

y = 0.0011 * x + 0.0176
R = 0.9998
DL = 0.722 ppb
BEC = 16.58 ppb

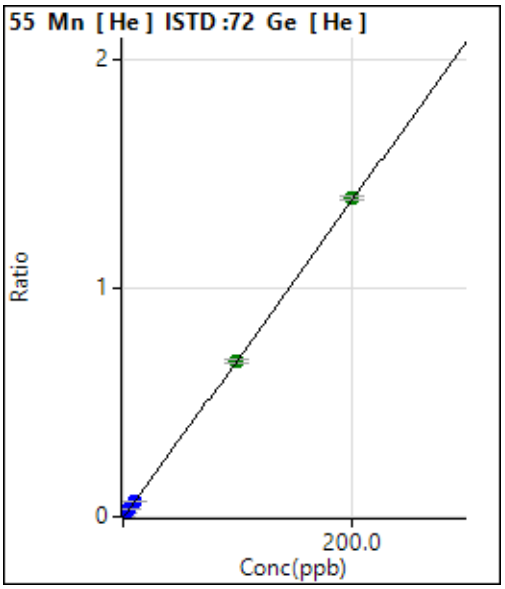
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1713.47	0.0013	P	7.2	
2	☐	2.000	2.199	4790.93	0.0038	P	6.0	10.0
3	☐	5.000	5.099	8906.37	0.0071	P	5.5	2.0
4	☐	10.000	10.192	15972.79	0.0129	P	4.9	1.9
5	☐	100.000	97.767	136121.58	0.1121	P	2.3	-2.2
6	☐	200.000	201.102	276867.57	0.2292	P	0.5	0.6

y = 0.0011 * x + 0.0013
R = 0.9999
DL = 0.2576 ppb
BEC = 1.189 ppb

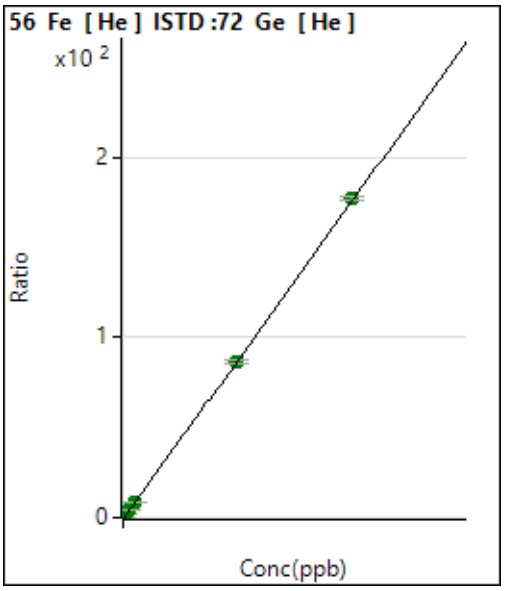
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0008	P	12.0	
2	☐	2.000	1.901	17438.01	0.0140	P	3.9	-5.0
3	☐	5.000	4.731	42000.91	0.0336	P	2.6	-5.4
4	☐	10.000	9.779	84980.74	0.0686	P	3.7	-2.2
5	☐	100.000	98.303	828549.83	0.6825	A	2.9	-1.7
6	☐	200.000	200.867	1683482.89	1.3937	A	0.9	0.4

y = 0.0069 * x + 7.9444E-004
R = 1.0000
DL = 0.04136 ppb
BEC = 0.1146 ppb

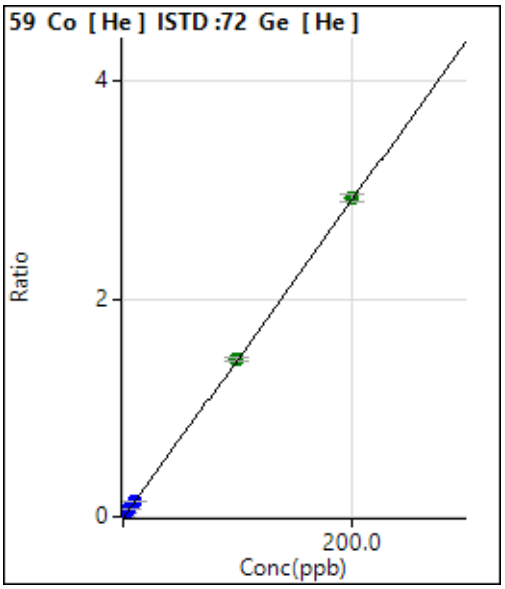
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27424.18	0.0216	P	2.1	
2	☐	200.000	190.126	2117621.74	1.6975	A	2.8	-4.9
3	☐	500.000	476.057	5272041.69	4.2180	A	2.0	-4.8
4	☐	1000.000	983.947	10770542.34	8.6951	A	2.6	-1.6
5	☐	10000.00	9785.140	104740625.1	86.2777	A	2.1	-2.1
6	☐	20000.00	20108.93	2141431768	177.282	A	1.1	0.5

y = 0.0088 * x + 0.0216
R = 0.9999
DL = 0.1538 ppb
BEC = 2.446 ppb

Weight: <None>
Min Conc: <None>

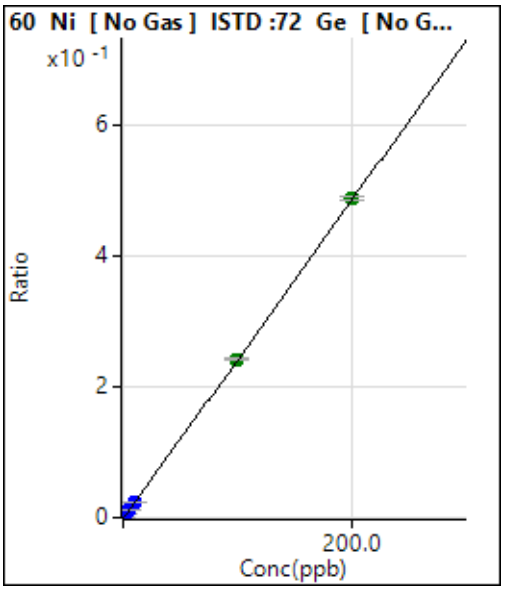


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	12.4	
2	☐	2.000	1.951	35686.65	0.0286	P	2.5	-2.4
3	☐	5.000	4.854	88744.77	0.0710	P	1.7	-2.9
4	☐	10.000	10.032	181616.32	0.1466	P	3.1	0.3
5	☐	100.000	98.851	1752746.12	1.4438	A	1.9	-1.1
6	☐	200.000	200.577	3538649.94	2.9295	A	2.3	0.3

y = 0.0146 * x + 1.1007E-004
R = 1.0000
DL = 0.002804 ppb
BEC = 0.007536 ppb

Weight: <None>
Min Conc: <None>

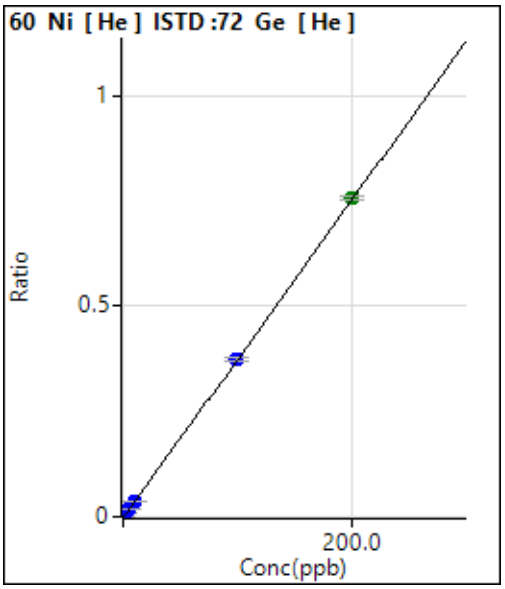
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0004	P	8.9	
2	☐	2.000	1.992	21790.93	0.0052	P	1.1	-0.4
3	☐	5.000	4.948	51275.70	0.0124	P	3.1	-1.0
4	☐	10.000	9.899	100280.86	0.0245	P	1.8	-1.0
5	☐	100.000	99.415	972410.59	0.2425	A	1.2	-0.6
6	☐	200.000	200.299	1946577.11	0.4881	A	1.5	0.1

y = 0.0024 * x + 3.9352E-004
R = 1.0000
DL = 0.04319 ppb
BEC = 0.1616 ppb

Weight: <None>
Min Conc: <None>

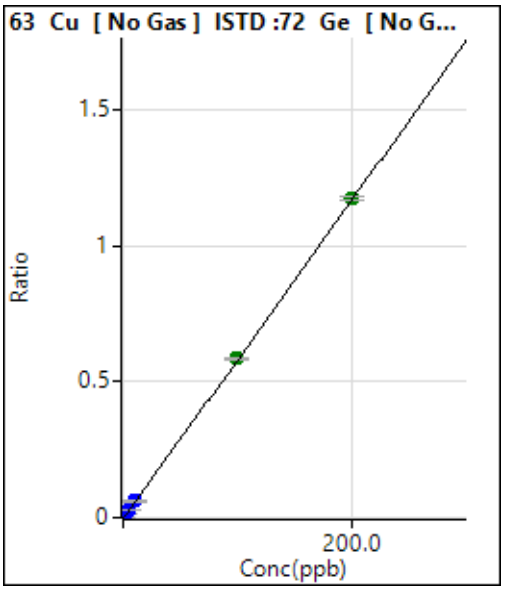


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.37	0.0006	P	6.5	
2	☐	2.000	1.925	9746.94	0.0078	P	3.5	-3.7
3	☐	5.000	4.854	23567.16	0.0189	P	0.8	-2.9
4	☐	10.000	9.962	47211.29	0.0381	P	3.0	-0.4
5	☐	100.000	99.122	454378.57	0.3743	P	2.2	-0.9
6	☐	200.000	200.445	913553.40	0.7563	A	1.0	0.2

y = 0.0038 * x + 5.5310E-004
R = 1.0000
DL = 0.02866 ppb
BEC = 0.1467 ppb

Weight: <None>
Min Conc: <None>

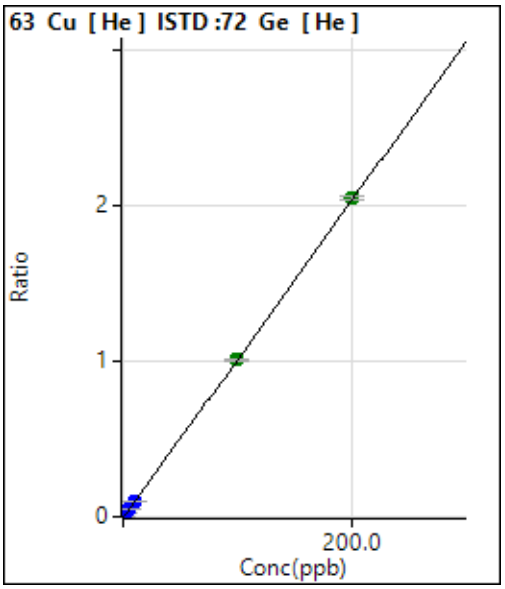
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3750.60	0.0009	P	3.8	
2	☐	2.000	2.070	54173.59	0.0130	P	2.4	3.5
3	☐	5.000	5.049	125728.37	0.0305	P	3.2	1.0
4	☐	10.000	10.143	247200.56	0.0604	P	1.6	1.4
5	☐	100.000	99.478	2343584.18	0.5844	A	1.4	-0.5
6	☐	200.000	200.252	4687473.68	1.1755	A	1.6	0.1

y = 0.0059 * x + 8.9430E-004
R = 1.0000
DL = 0.01717 ppb
BEC = 0.1525 ppb

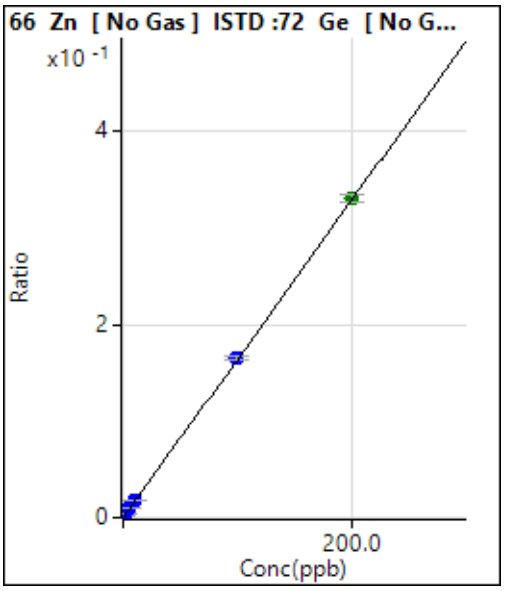
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1903.50	0.0015	P	2.9	
2	☐	2.000	1.944	26659.43	0.0214	P	3.7	-2.8
3	☐	5.000	4.868	64069.58	0.0513	P	3.3	-2.6
4	☐	10.000	9.956	127931.06	0.1033	P	1.5	-0.4
5	☐	100.000	98.686	1226524.49	1.0103	A	1.4	-1.3
6	☐	200.000	200.663	2479711.99	2.0528	A	1.7	0.3

y = 0.0102 * x + 0.0015
R = 1.0000
DL = 0.01253 ppb
BEC = 0.1464 ppb

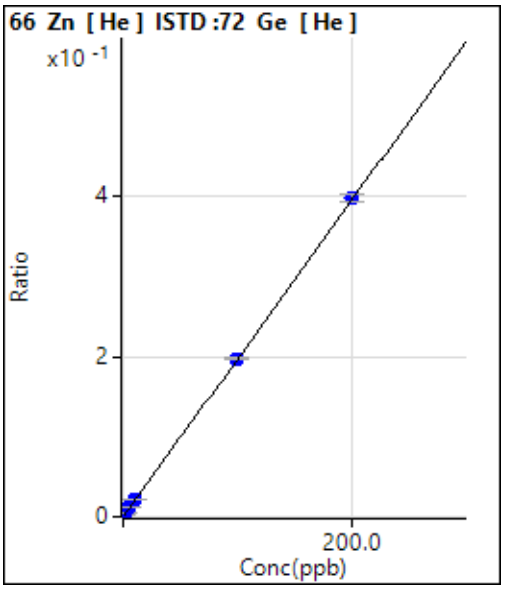
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6318.24	0.0015	P	1.4	
2	☐	2.000	1.851	18903.28	0.0045	P	3.3	-7.5
3	☐	5.000	4.831	38932.15	0.0094	P	1.6	-3.4
4	☐	10.000	9.998	73436.22	0.0179	P	3.5	0.0
5	☐	100.000	99.647	662914.18	0.1653	P	1.9	-0.4
6	☐	200.000	200.182	1318132.35	0.3306	A	2.0	0.1

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.03766 ppb
BEC = 0.9166 ppb

Weight: <None>
Min Conc: <None>

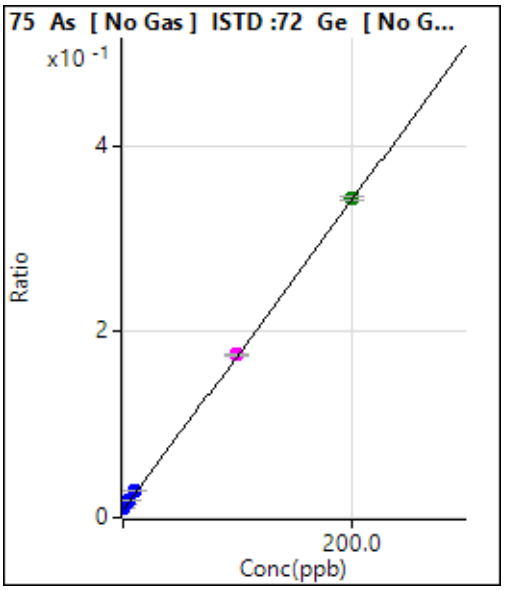


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.91	0.0019	P	5.1	
2	☐	2.000	1.672	6464.98	0.0052	P	2.5	-16.4
3	☐	5.000	4.618	13757.14	0.0110	P	1.5	-7.6
4	☐	10.000	9.856	26459.15	0.0214	P	2.1	-1.4
5	☐	100.000	99.014	239901.04	0.1976	P	1.8	-1.0
6	☐	200.000	200.513	481085.83	0.3983	P	2.2	0.3

y = 0.0020 * x + 0.0019
R = 1.0000
DL = 0.1463 ppb
BEC = 0.949 ppb

Weight: <None>
Min Conc: <None>

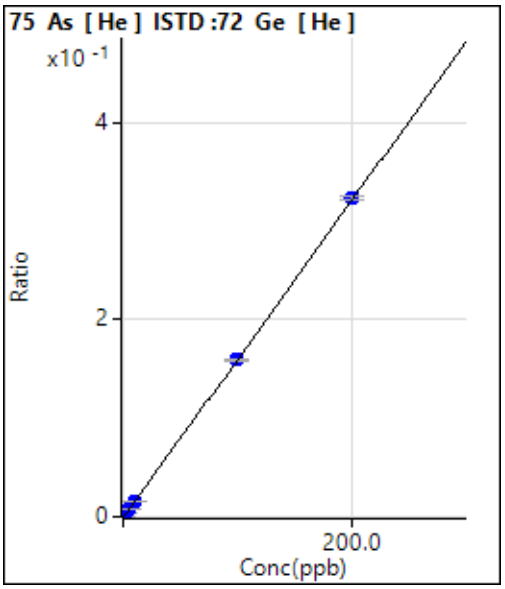
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40617.31	0.0097	P	1.4	
2	☐	2.000	2.995	61009.38	0.0147	P	1.2	49.8
3	☐	5.000	5.805	79802.28	0.0194	P	2.7	16.1
4	☐	10.000	11.197	116073.48	0.0284	P	1.4	12.0
5	☐	100.000	99.367	703303.64	0.1754	M	1.4	-0.6
6	☐	200.000	200.227	1369997.22	0.3436	A	1.7	0.1

y = 0.0017 * x + 0.0097
R = 1.0000
DL = 0.252 ppb
BEC = 5.808 ppb

Weight: <None>
Min Conc: <None>

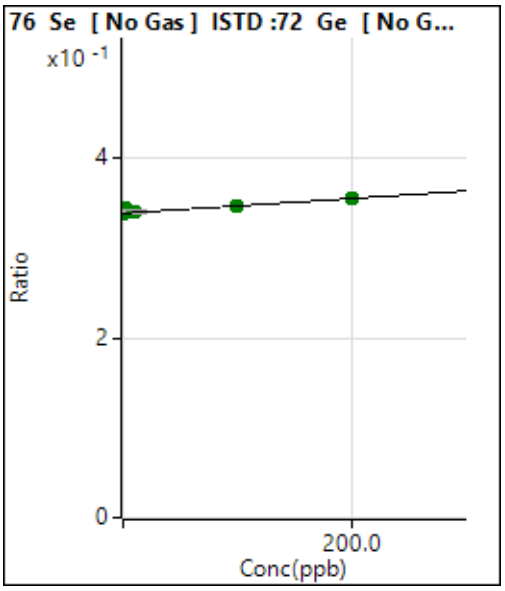


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.12	0.0003	P	8.3	
2	☐	2.000	1.898	4179.56	0.0034	P	6.1	-5.1
3	☐	5.000	4.791	10018.14	0.0080	P	3.1	-4.2
4	☐	10.000	9.707	19747.64	0.0159	P	3.5	-2.9
5	☐	100.000	98.735	193606.79	0.1595	P	1.6	-1.3
6	☐	200.000	200.653	391132.07	0.3238	P	1.5	0.3

y = 0.0016 * x + 2.9179E-004
R = 1.0000
DL = 0.04521 ppb
BEC = 0.181 ppb

Weight: <None>
Min Conc: <None>

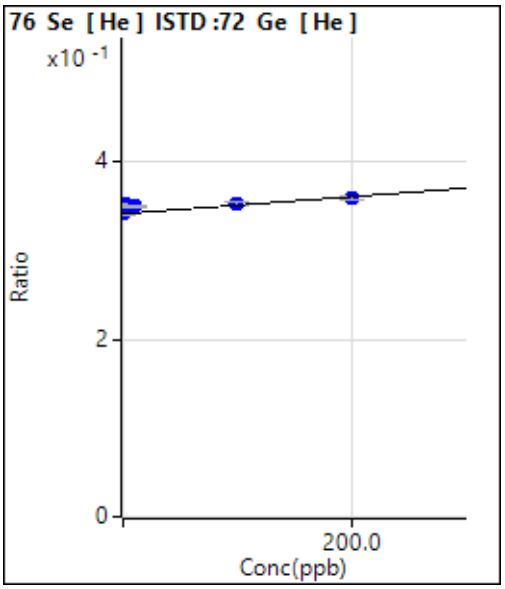
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1419884.15	0.3386	A	0.7	
2	☐	2.000	60.227	1427919.77	0.3436	A	0.8	2911.4
3	☐	5.000	28.505	1405097.79	0.3410	A	0.8	470.1
4	☐	10.000	26.996	1395120.55	0.3408	A	1.0	170.0
5	☐	100.000	94.524	1389318.06	0.3464	A	0.4	-5.5
6	☐	200.000	200.718	1416667.84	0.3553	A	0.1	0.4

y = 8.3106E-005 * x + 0.3386
R = 0.9601
DL = 84.36 ppb
BEC = 4074 ppb

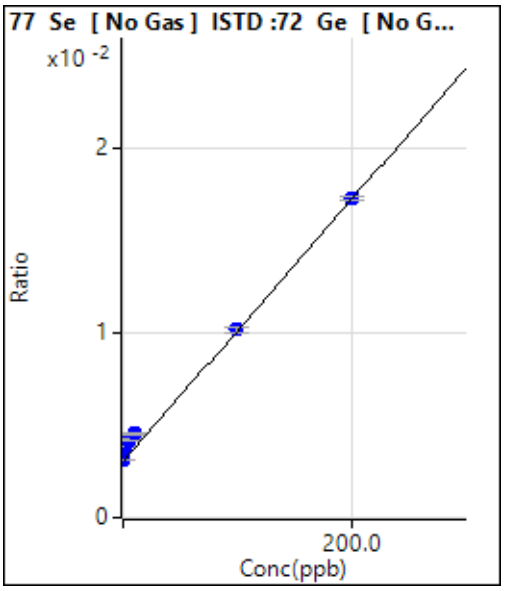
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435030.00	0.3420	P	0.4	
2	☐	2.000	109.615	439982.58	0.3527	P	0.6	5380.7
3	☐	5.000	85.565	437915.80	0.3503	P	1.2	1611.3
4	☐	10.000	83.546	433738.20	0.3501	P	0.6	735.5
5	☐	100.000	119.644	429273.79	0.3536	P	0.8	19.6
6	☐	200.000	183.411	434649.32	0.3598	P	1.2	-8.3

y = 9.7324E-005 * x + 0.3420
R = 0.7942
DL = 40.95 ppb
BEC = 3514 ppb

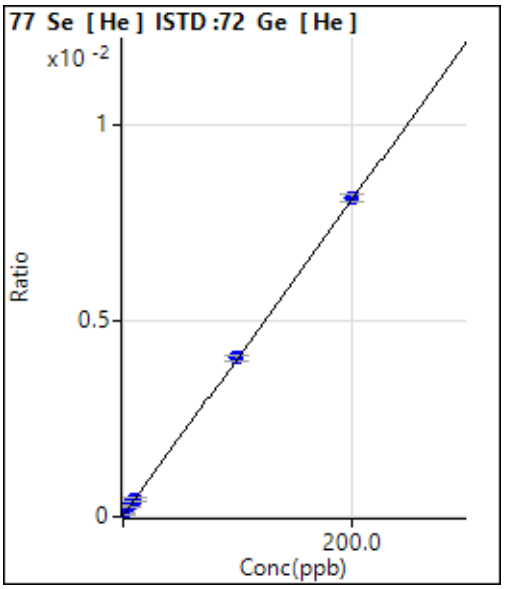
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13143.23	0.0031	P	0.5	
2	☐	2.000	10.169	16016.41	0.0039	P	1.4	408.4
3	☐	5.000	14.977	17284.56	0.0042	P	1.3	199.5
4	☐	10.000	19.879	18589.58	0.0045	P	1.5	98.8
5	☐	100.000	99.077	40694.29	0.0101	P	2.8	-0.9
6	☐	200.000	199.636	68850.06	0.0173	P	1.3	-0.2

y = 7.0788E-005 * x + 0.0031
R = 0.9986
DL = 0.7267 ppb
BEC = 44.27 ppb

Weight: <None>
Min Conc: <None>

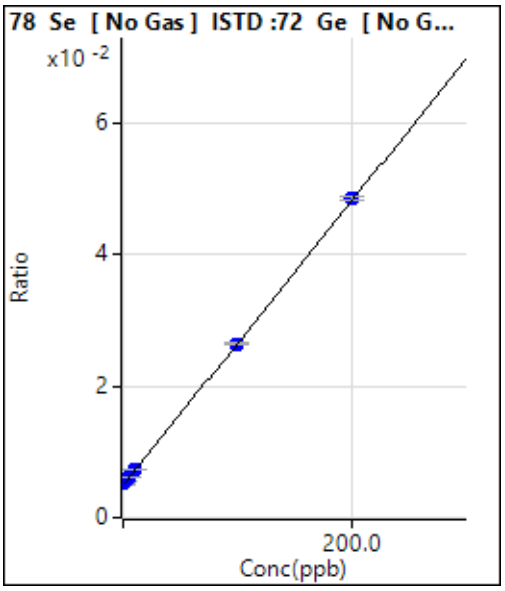


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	5.5	
2	☐	2.000	4.025	293.34	0.0002	P	24.3	101.3
3	☐	5.000	5.006	343.34	0.0003	P	5.9	0.1
4	☐	10.000	8.954	536.69	0.0004	P	15.3	-10.5
5	☐	100.000	99.038	4920.99	0.0041	P	4.2	-1.0
6	☐	200.000	200.513	9823.70	0.0081	P	2.5	0.3

y = 4.0196E-005 * x + 7.3358E-005
R = 0.9999
DL = 0.3024 ppb
BEC = 1.825 ppb

Weight: <None>
Min Conc: <None>

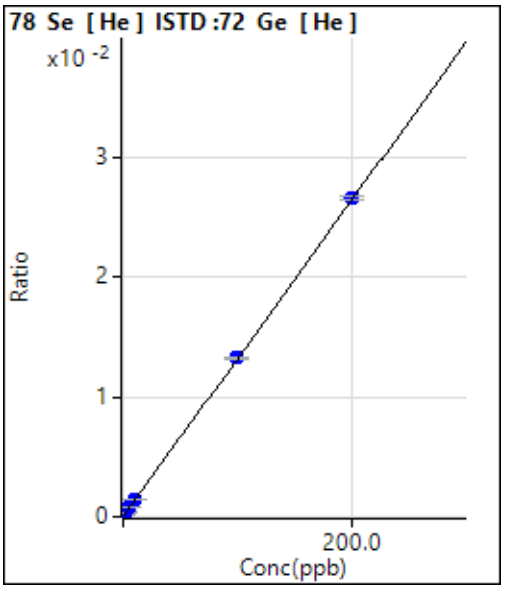
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21700.86	0.0052	P	2.7	
2	☐	2.000	1.436	22792.60	0.0055	P	2.2	-28.2
3	☐	5.000	4.676	25487.47	0.0062	P	0.7	-6.5
4	☐	10.000	9.469	29552.38	0.0072	P	0.8	-5.3
5	☐	100.000	98.475	106040.09	0.0264	P	1.5	-1.5
6	☐	200.000	200.803	193571.77	0.0485	P	1.4	0.4

y = 2.1598E-004 * x + 0.0052
R = 1.0000
DL = 1.907 ppb
BEC = 23.96 ppb

Weight: <None>
Min Conc: <None>

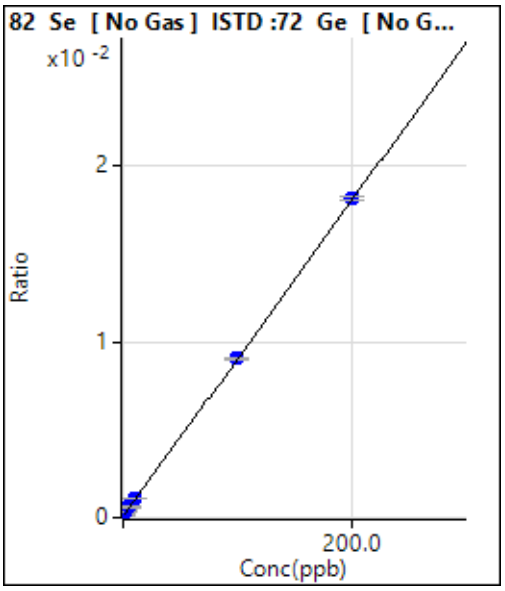


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.00	0.0002	P	13.6	
2	☐	2.000	1.860	498.01	0.0004	P	4.5	-7.0
3	☐	5.000	4.892	998.04	0.0008	P	8.8	-2.2
4	☐	10.000	9.497	1741.45	0.0014	P	3.9	-5.0
5	☐	100.000	99.104	16044.13	0.0132	P	1.5	-0.9
6	☐	200.000	200.477	32103.68	0.0266	P	1.8	0.2

y = 1.3180E-004 * x + 1.5411E-004
R = 1.0000
DL = 0.4782 ppb
BEC = 1.169 ppb

Weight: <None>
Min Conc: <None>

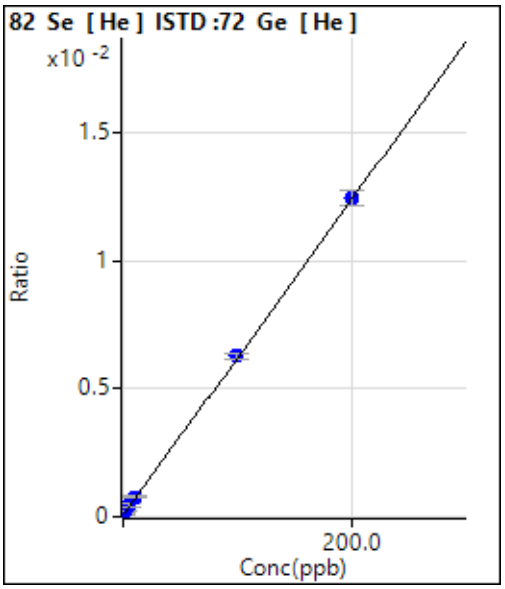
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	706.70	0.0002	P	15.2	
2	☐	2.000	2.376	1586.79	0.0004	P	8.3	18.8
3	☐	5.000	4.939	2520.28	0.0006	P	7.5	-1.2
4	☐	10.000	10.532	4557.52	0.0011	P	3.1	5.3
5	☐	100.000	98.995	36292.15	0.0090	P	0.9	-1.0
6	☐	200.000	200.474	72389.39	0.0182	P	1.4	0.2

y = 8.9713E-005 * x + 1.6852E-004
R = 1.0000
DL = 0.855 ppb
BEC = 1.878 ppb

Weight: <None>
Min Conc: <None>

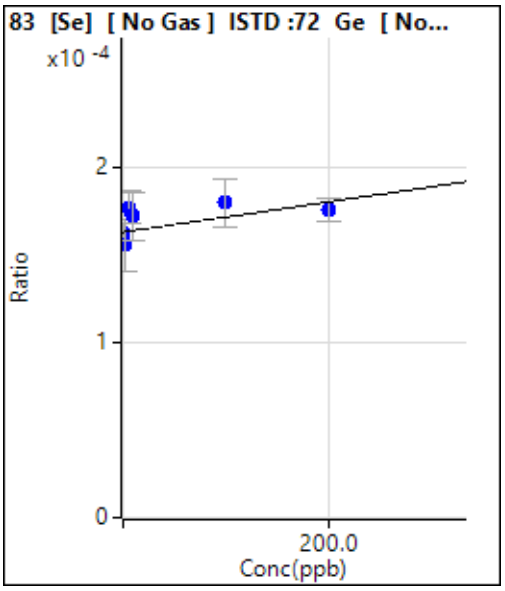


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	21.8	
2	☐	2.000	2.333	320.01	0.0003	P	4.0	16.6
3	☐	5.000	5.433	560.03	0.0004	P	20.3	8.7
4	☐	10.000	10.906	973.39	0.0008	P	4.5	9.1
5	☐	100.000	99.808	7615.64	0.0063	P	4.0	-0.2
6	☐	200.000	200.037	15048.64	0.0125	P	4.8	0.0

y = 6.1720E-005 * x + 1.1259E-004
R = 1.0000
DL = 1.191 ppb
BEC = 1.824 ppb

Weight: <None>
Min Conc: <None>

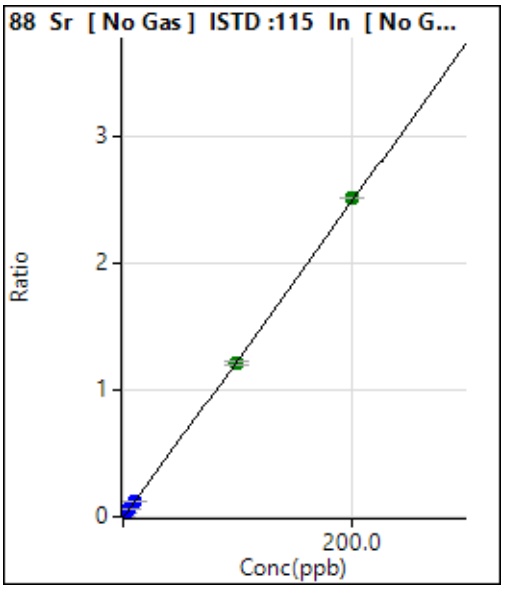
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	683.36	0.0002	P	6.7	
2	☐	2.000	-83.994	646.70	0.0002	P	18.9	-4299.7
3	☐	5.000	164.592	730.03	0.0002	P	10.2	3191.8
4	☐	10.000	102.388	703.36	0.0002	P	15.5	923.9
5	☐	100.000	192.720	720.04	0.0002	P	15.4	92.7
6	☐	200.000	145.891	700.03	0.0002	P	7.8	-27.1

y = 8.6578E-008 * x + 1.6294E-004
R = 0.5143
DL = 378.9 ppb
BEC = 1882 ppb

Weight: <None>
Min Conc: <None>

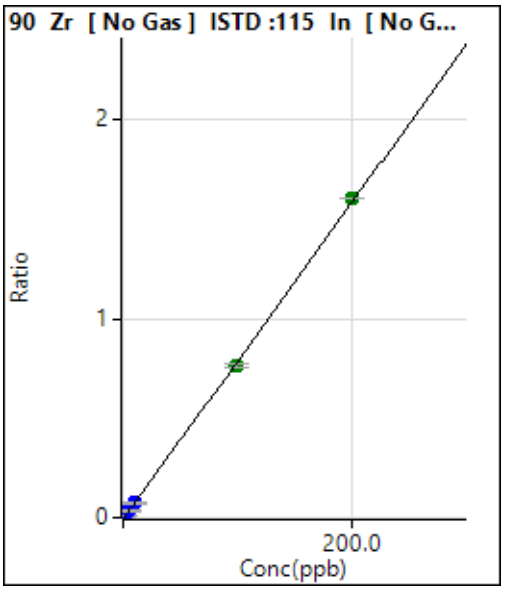


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9133.27	0.0020	P	3.8	
2	☐	2.000	1.954	121270.54	0.0263	P	0.3	-2.3
3	☐	5.000	4.794	284595.76	0.0617	P	2.3	-4.1
4	☐	10.000	9.735	559837.61	0.1233	P	2.6	-2.6
5	☐	100.000	97.117	5386439.09	1.2122	A	2.5	-2.9
6	☐	200.000	201.460	10960580.67	2.5125	A	0.2	0.7

y = 0.0125 * x + 0.0020
R = 0.9999
DL = 0.01787 ppb
BEC = 0.1582 ppb

Weight: <None>
Min Conc: <None>

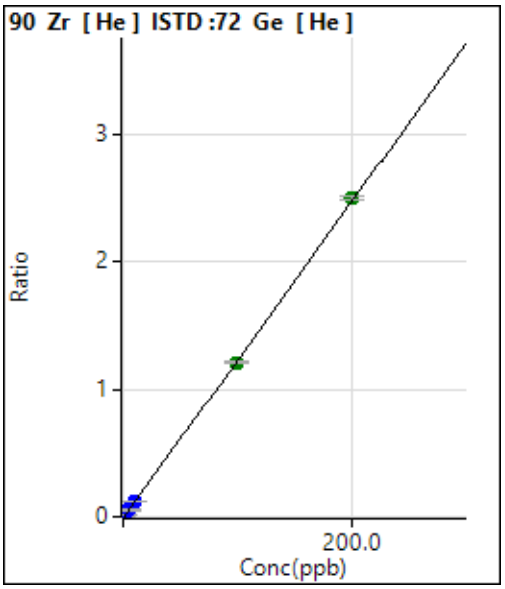
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.13	0.0003	P	11.6	
2	☐	2.000	1.606	60418.91	0.0131	P	1.5	-19.7
3	☐	5.000	4.226	156601.02	0.0340	P	3.9	-15.5
4	☐	10.000	9.139	331641.48	0.0730	P	2.0	-8.6
5	☐	100.000	96.408	3409285.05	0.7672	A	2.3	-3.6
6	☐	200.000	201.863	7006775.94	1.6061	A	0.6	0.9

y = 0.0080 * x + 3.3893E-004
R = 0.9998
DL = 0.01479 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

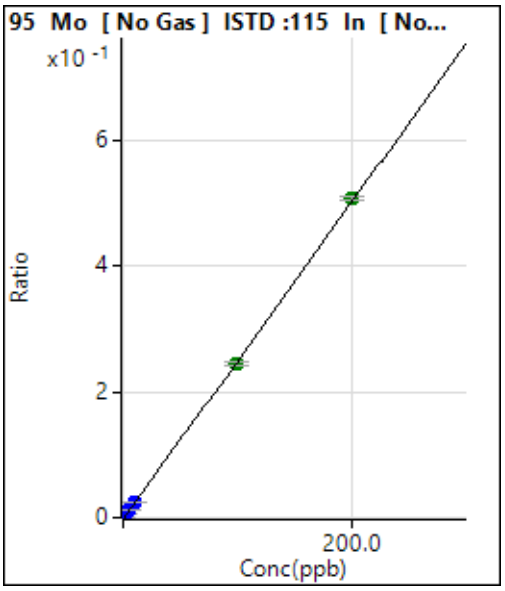


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0013	P	3.3	
2	☐	2.000	1.581	26125.56	0.0209	P	4.3	-21.0
3	☐	5.000	4.218	67146.63	0.0537	P	3.7	-15.6
4	☐	10.000	9.089	141559.93	0.1143	P	1.7	-9.1
5	☐	100.000	97.357	1470607.32	1.2114	A	1.3	-2.6
6	☐	200.000	201.391	3025304.33	2.5046	A	1.7	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.01023 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

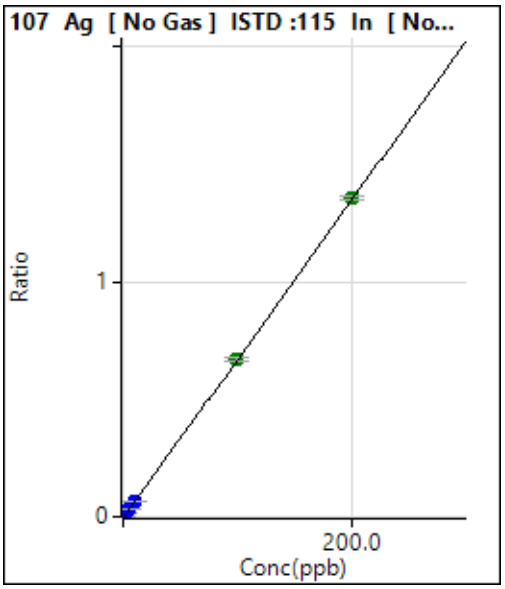
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0000	P	8.4	
2	☐	2.000	1.845	21644.48	0.0047	P	3.1	-7.8
3	☐	5.000	4.789	55882.77	0.0121	P	5.1	-4.2
4	☐	10.000	9.656	110702.46	0.0244	P	2.8	-3.4
5	☐	100.000	97.220	1088724.80	0.2450	A	2.1	-2.8
6	☐	200.000	201.414	2214248.20	0.5075	A	1.2	0.7

y = 0.0025 * x + 4.9646E-005
R = 0.9999
DL = 0.004983 ppb
BEC = 0.0197 ppb

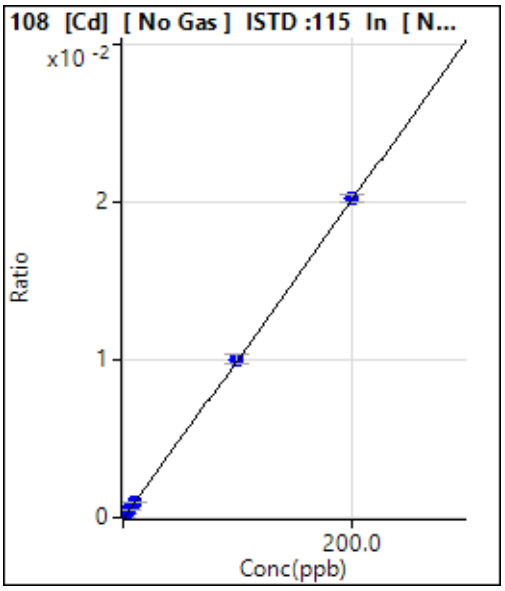
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1593.46	0.0003	P	6.7	
2	☐	2.000	2.041	65151.99	0.0141	P	2.7	2.1
3	☐	5.000	4.932	155351.91	0.0337	P	3.4	-1.4
4	☐	10.000	9.990	308231.04	0.0679	P	1.3	-0.1
5	☐	100.000	99.127	2979166.31	0.6705	A	2.5	-0.9
6	☐	200.000	200.438	5912939.70	1.3553	A	1.3	0.2

y = 0.0068 * x + 3.4395E-004
R = 1.0000
DL = 0.01028 ppb
BEC = 0.05088 ppb

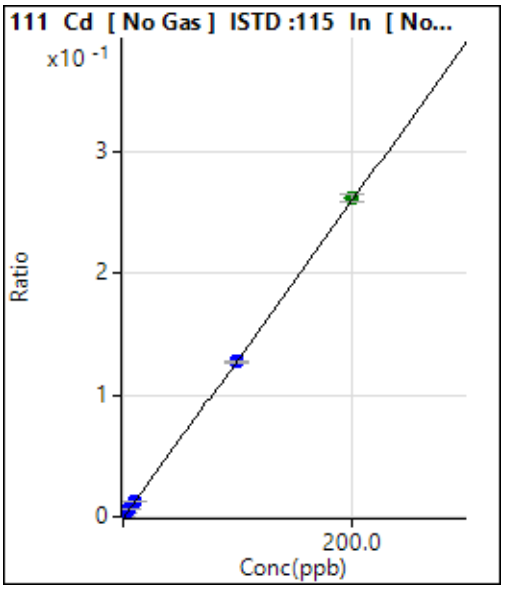
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	2.110	1000.06	0.0002	P	15.8	5.5
3	☐	5.000	4.648	2183.55	0.0005	P	14.5	-7.0
4	☐	10.000	10.087	4647.59	0.0010	P	0.5	0.9
5	☐	100.000	99.400	44665.07	0.0101	P	5.4	-0.6
6	☐	200.000	200.303	88371.65	0.0203	P	1.9	0.2

y = 1.0111E-004 * x + 3.5984E-006
R = 1.0000
DL = 0.09772 ppb
BEC = 0.03559 ppb

Weight: <None>
Min Conc: <None>

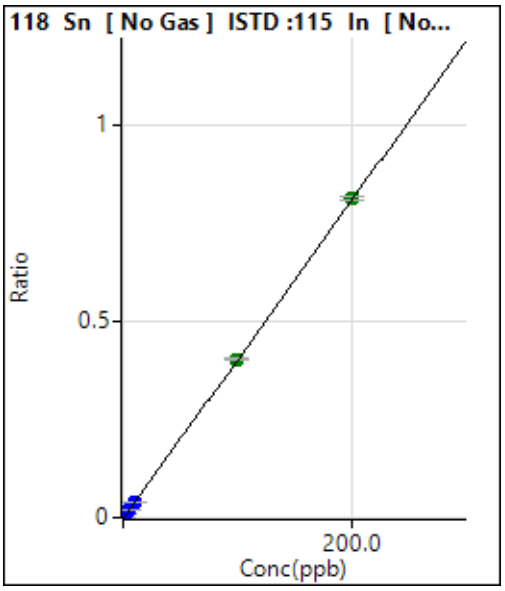


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	564.6	
2	☐	2.000	1.956	11750.03	0.0026	P	1.5	-2.2
3	☐	5.000	4.841	29111.02	0.0063	P	1.9	-3.2
4	☐	10.000	9.846	58279.74	0.0128	P	2.5	-1.5
5	☐	100.000	97.902	567131.85	0.1276	P	1.4	-2.1
6	☐	200.000	201.061	1143495.16	0.2621	A	2.0	0.5

y = 0.0013 * x + 4.5202E-007
R = 0.9999
DL = 0.005874 ppb
BEC = 0.0003468 ppb

Weight: <None>
Min Conc: <None>

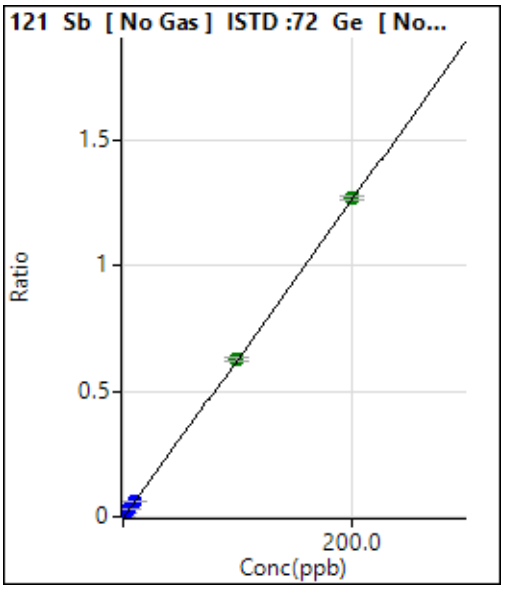
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.47	0.0011	P	2.6	
2	☐	2.000	1.991	42311.25	0.0092	P	2.2	-0.5
3	☐	5.000	4.859	95908.51	0.0208	P	2.1	-2.8
4	☐	10.000	9.797	185213.59	0.0408	P	2.2	-2.0
5	☐	100.000	99.305	1791470.91	0.4031	A	1.8	-0.7
6	☐	200.000	200.361	3543706.62	0.8123	A	1.5	0.2

y = 0.0040 * x + 0.0011
R = 1.0000
DL = 0.02168 ppb
BEC = 0.2781 ppb

Weight: <None>
Min Conc: <None>

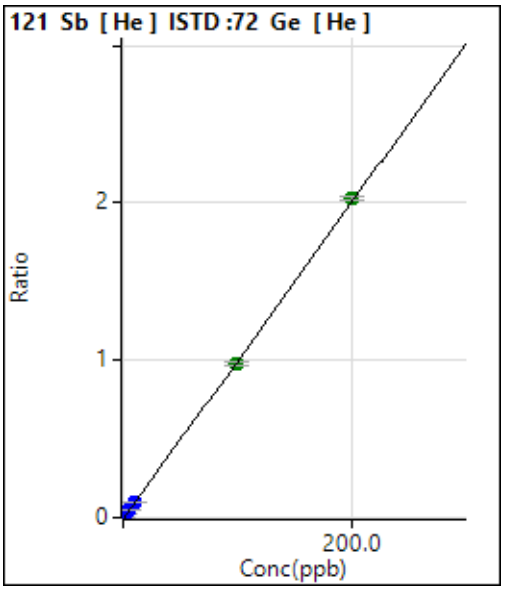


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	960.05	0.0002	P	3.8	
2	☐	2.000	1.953	52260.04	0.0126	P	1.5	-2.4
3	☐	5.000	4.934	129491.66	0.0314	P	2.0	-1.3
4	☐	10.000	9.876	256522.06	0.0627	P	2.4	-1.2
5	☐	100.000	98.962	2510060.53	0.6259	A	1.8	-1.0
6	☐	200.000	200.527	5056640.03	1.2681	A	1.4	0.3

y = 0.0063 * x + 2.2893E-004
R = 1.0000
DL = 0.004131 ppb
BEC = 0.03621 ppb

Weight: <None>
Min Conc: <None>

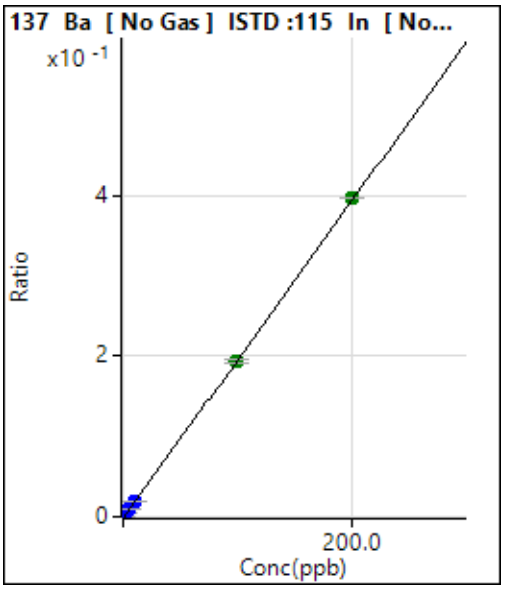
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0003	P	13.2	
2	☐	2.000	1.896	24252.50	0.0194	P	0.8	-5.2
3	☐	5.000	4.699	59564.31	0.0477	P	2.9	-6.0
4	☐	10.000	9.817	122875.85	0.0992	P	3.4	-1.8
5	☐	100.000	96.991	1186069.07	0.9770	A	1.5	-3.0
6	☐	200.000	201.522	2451598.82	2.0296	A	1.5	0.8

y = 0.0101 * x + 3.4607E-004
R = 0.9998
DL = 0.0136 ppb
BEC = 0.03437 ppb

Weight: <None>
Min Conc: <None>

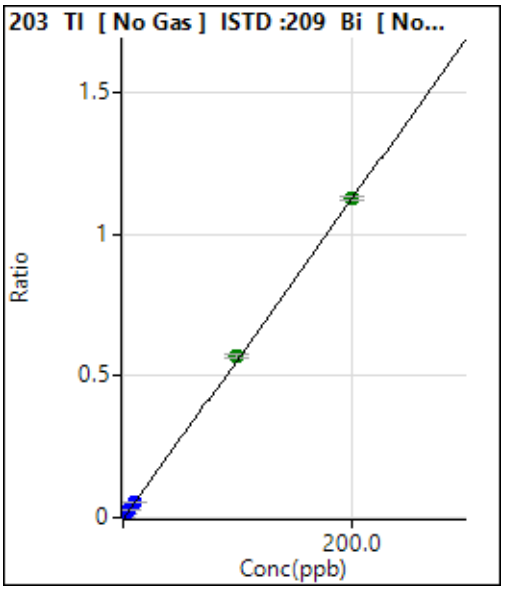


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.71	0.0002	P	15.7	
2	☐	2.000	2.080	19695.16	0.0043	P	2.9	4.0
3	☐	5.000	4.899	45395.57	0.0098	P	3.0	-2.0
4	☐	10.000	9.819	88836.22	0.0196	P	1.5	-1.8
5	☐	100.000	98.116	862010.17	0.1940	A	2.8	-1.9
6	☐	200.000	200.953	1732609.76	0.3972	A	0.4	0.5

y = 0.0020 * x + 1.6551E-004
R = 0.9999
DL = 0.03945 ppb
BEC = 0.08378 ppb

Weight: <None>
Min Conc: <None>

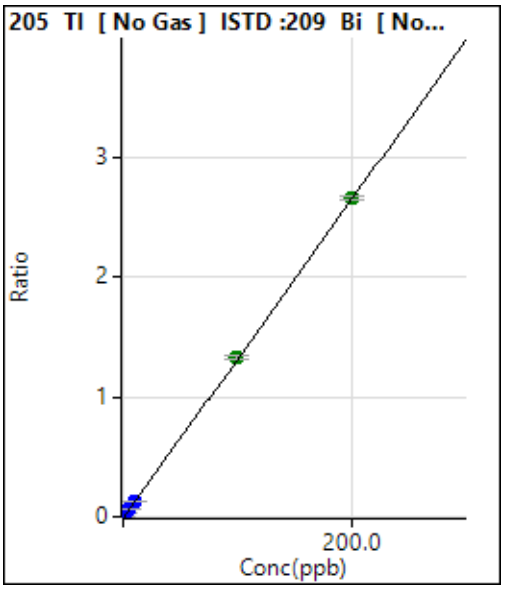
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	18.8	
2	☐	2.000	1.969	43361.84	0.0112	P	2.9	-1.6
3	☐	5.000	4.960	109414.55	0.0281	P	1.6	-0.8
4	☐	10.000	9.775	212416.36	0.0552	P	0.8	-2.3
5	☐	100.000	100.789	2138360.59	0.5686	A	1.8	0.8
6	☐	200.000	199.618	4236776.60	1.1261	A	1.3	-0.2

y = 0.0056 * x + 7.6943E-005
R = 1.0000
DL = 0.007703 ppb
BEC = 0.01364 ppb

Weight: <None>
Min Conc: <None>

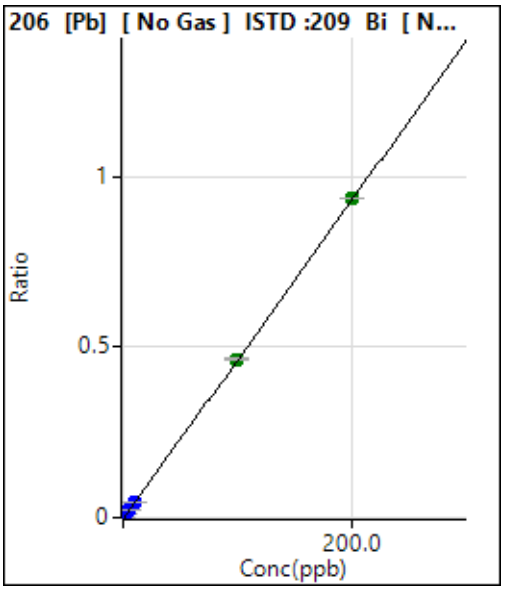


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	13.2	
2	☐	2.000	1.961	102032.62	0.0263	P	2.9	-2.0
3	☐	5.000	4.883	254579.84	0.0653	P	2.6	-2.3
4	☐	10.000	9.735	500079.34	0.1300	P	2.0	-2.7
5	☐	100.000	100.154	5023606.18	1.3358	A	1.7	0.2
6	☐	200.000	199.940	10032632.35	2.6666	A	1.3	0.0

y = 0.0133 * x + 1.6397E-004
R = 1.0000
DL = 0.004868 ppb
BEC = 0.01229 ppb

Weight: <None>
Min Conc: <None>

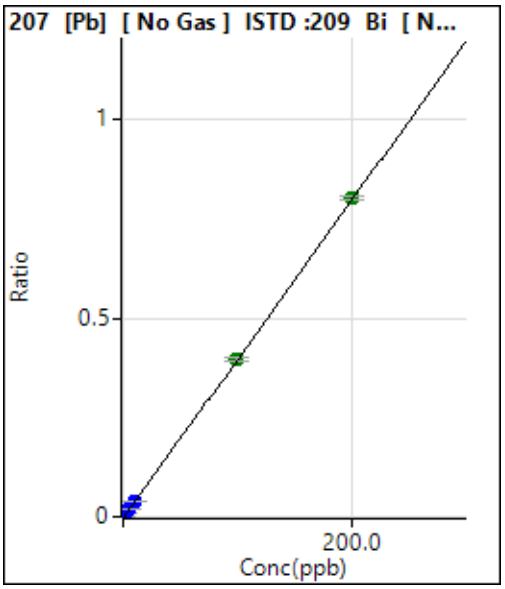
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0002	P	22.1	
2	☐	2.000	2.006	37028.24	0.0095	P	2.0	0.3
3	☐	5.000	4.839	88896.72	0.0228	P	2.7	-3.2
4	☐	10.000	9.947	179565.38	0.0467	P	2.6	-0.5
5	☐	100.000	99.321	1746801.59	0.4645	A	1.8	-0.7
6	☐	200.000	200.346	3524680.26	0.9368	A	0.3	0.2

y = 0.0047 * x + 1.7110E-004
R = 1.0000
DL = 0.02421 ppb
BEC = 0.0366 ppb

Weight: <None>
Min Conc: <None>

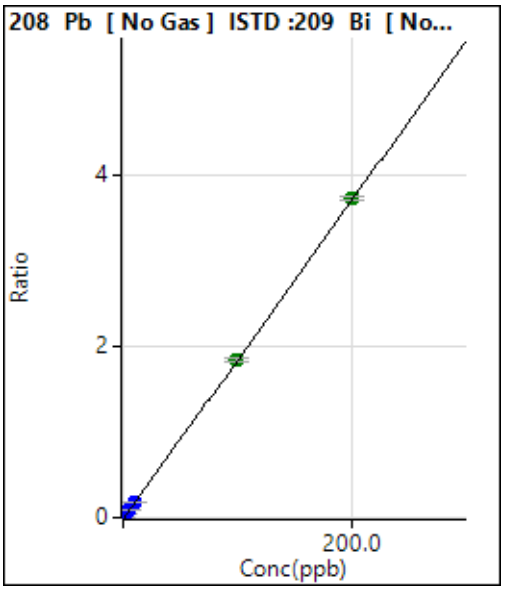


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	21.4	
2	☐	2.000	1.956	31018.76	0.0080	P	3.1	-2.2
3	☐	5.000	4.865	76643.76	0.0197	P	2.1	-2.7
4	☐	10.000	9.817	151985.68	0.0395	P	2.3	-1.8
5	☐	100.000	99.075	1493789.25	0.3972	A	2.1	-0.9
6	☐	200.000	200.475	3023524.75	0.8036	A	1.4	0.2

y = 0.0040 * x + 1.6049E-004
R = 1.0000
DL = 0.02568 ppb
BEC = 0.04005 ppb

Weight: <None>
Min Conc: <None>

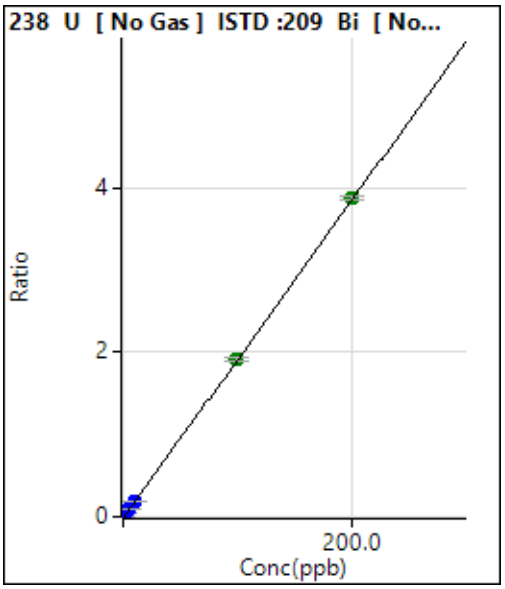
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2676.84	0.0007	P	2.4	
2	☐	2.000	1.978	145562.64	0.0375	P	2.3	-1.1
3	☐	5.000	4.869	356419.41	0.0914	P	2.5	-2.6
4	☐	10.000	9.882	710873.52	0.1848	P	2.4	-1.2
5	☐	100.000	99.153	6948438.60	1.8477	A	1.7	-0.8
6	☐	200.000	200.433	14050124.48	3.7343	A	1.4	0.2

y = 0.0186 * x + 6.8618E-004
R = 1.0000
DL = 0.002623 ppb
BEC = 0.03684 ppb

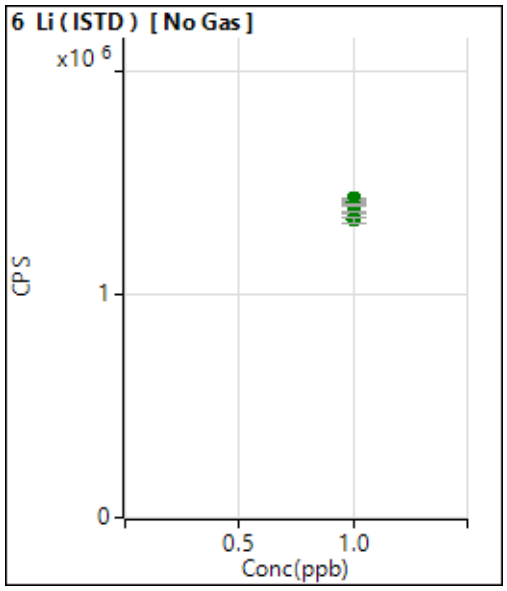
Weight: <None>
Min Conc: <None>



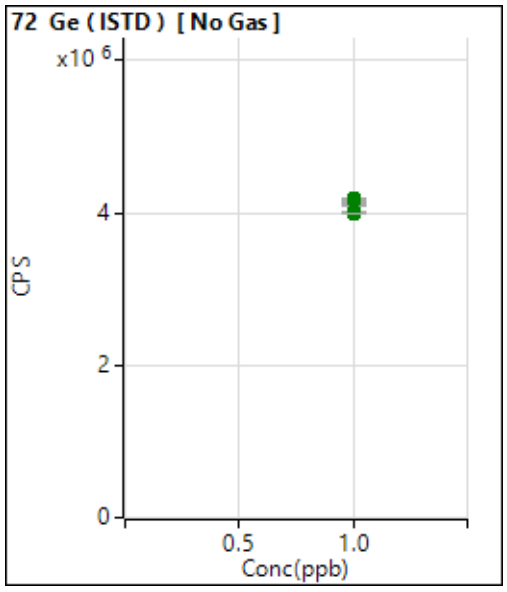
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.38	0.0002	P	7.6	
2	☐	2.000	1.869	140917.91	0.0363	P	2.8	-6.5
3	☐	5.000	4.667	352601.88	0.0904	P	1.2	-6.7
4	☐	10.000	9.470	705100.79	0.1833	P	2.2	-5.3
5	☐	100.000	98.856	7186615.73	1.9110	A	1.8	-1.1
6	☐	200.000	200.608	14589493.11	3.8778	A	0.9	0.3

y = 0.0193 * x + 2.0587E-004
R = 1.0000
DL = 0.002414 ppb
BEC = 0.01065 ppb

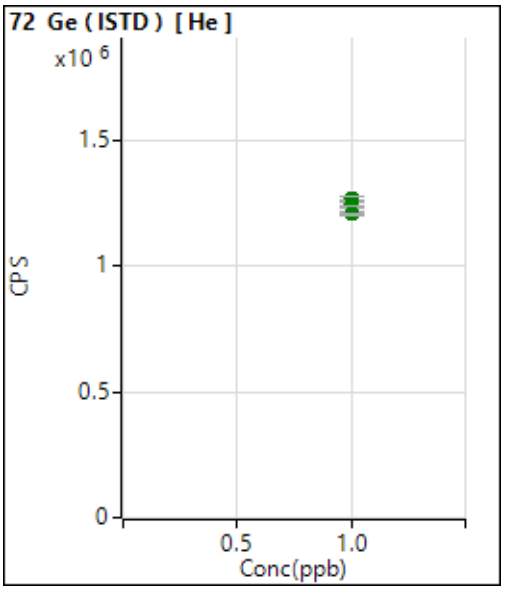
Weight: <None>
Min Conc: <None>



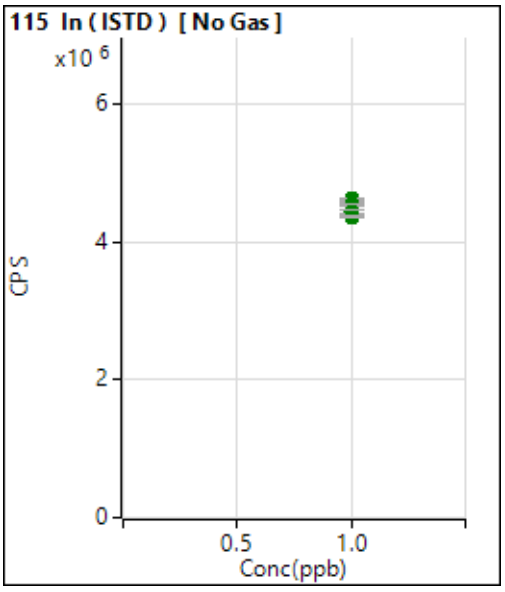
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1429276.11		A	0.6	
2	☐	1.000		1417965.71		A	1.2	
3	☐	1.000		1413014.56		A	0.9	
4	☐	1.000		1396686.32		A	0.5	
5	☐	1.000		1364042.84		A	0.2	
6	☐	1.000		1331983.50		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4193657.54		A	0.2	
2	☐	1.000		4156025.36		A	0.5	
3	☐	1.000		4121121.09		A	0.4	
4	☐	1.000		4093381.09		A	0.2	
5	☐	1.000		4010285.77		A	0.4	
6	☐	1.000		3987672.86		A	0.2	

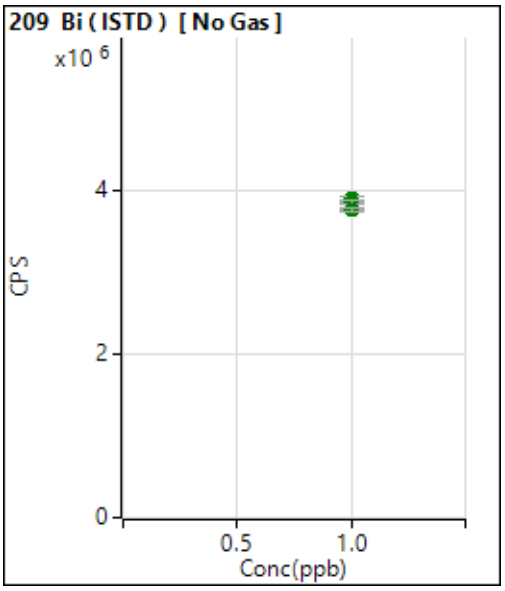


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1272004.36		A	0.8	
2	☐	1.000		1247560.27		A	0.9	
3	☐	1.000		1250040.34		A	1.1	
4	☐	1.000		1238824.64		A	0.6	
5	☐	1.000		1213889.20		A	0.7	
6	☐	1.000		1207897.95		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4632313.39		A	0.3	
2	☐	1.000		4606792.99		A	0.8	
3	☐	1.000		4612400.23		A	0.5	
4	☐	1.000		4540878.92		A	0.4	
5	☐	1.000		4444187.88		A	1.0	
6	☐	1.000		4362432.83		A	0.7	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3900842.23		A	0.8	
2	☐	1.000		3877954.01		A	0.3	
3	☐	1.000		3899647.44		A	1.8	
4	☐	1.000		3846870.04		A	1.2	
5	☐	1.000		3760775.36		A	0.4	
6	☐	1.000		3762470.67		A	1.0	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:29:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	80609	0.00
Be	9	1	No Gas	45	65.33
V	51	2	He	3735	0.10
Cr	52	2	He	11488	0.05
Fe	56	2	He	27424	0.01
Se	78	2	He	196	6.89
As	75	2	He	371	2.20
Ca	44	2	He	3214	0.16
Na	23	2	He	293768	0.00
Mg	24	2	He	1570	0.51
K	39	2	He	147084	0.00
Mn	55	2	He	1010	1.13
Co	59	2	He	140	8.84
Ni	60	2	He	703	0.84
Cu	63	2	He	1903	0.19
Zn	66	2	He	2387	0.25
Al	27	2	He	5505	0.09
B	11	1	No Gas	21622	0.00
Al	27	1	No Gas	199746	0.00
Si	28	1	No Gas	762259	0.00
Ag	107	1	No Gas	1593	0.44
Cd	111	1	No Gas	2	26356.89
Sr	88	1	No Gas	9133	0.04
Mo	95	1	No Gas	230	3.78
Sn	118	1	No Gas	5214	0.04
Sb	121	1	No Gas	960	0.39
Ba	137	1	No Gas	767	2.05
Tl	205	1	No Gas	640	2.17
Tl	203	1	No Gas	300	6.19
Pb	208	1	No Gas	2677	0.11
U	238	1	No Gas	803	1.03
Ca	43	2	He	100	40.00
Sb	121	2	He	440	2.88
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	3751	0.11

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1429276	0.59
Ge	72	2	He	1272004	0.76
Ge	72	1	No Gas	4193658	0.23
In	115	1	No Gas	4632313	0.30

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3900842	0.78

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:31:53-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10536	0.02
V	51	2	He	23222	0.01
Cr	52	2	He	33644	0.00
Fe	56	2	He	2117622	0.00
Se	78	2	He	498	0.82
As	75	2	He	4180	0.13
Ca	44	2	He	16106	0.02
Na	23	2	He	599580	0.00
Mg	24	2	He	198415	0.00
K	39	2	He	375395	0.00
Mn	55	2	He	17438	0.03
Co	59	2	He	35687	0.01
Ni	60	2	He	9747	0.04
Cu	63	2	He	26659	0.01
Zn	66	2	He	6465	0.05
Al	27	2	He	8456	0.03
B	11	1	No Gas	54690	0.00
Al	27	1	No Gas	309294	0.00
Si	28	1	No Gas	855731	0.00
Ag	107	1	No Gas	65152	0.00
Cd	111	1	No Gas	11750	0.02
Sr	88	1	No Gas	121271	0.00
Mo	95	1	No Gas	21644	0.02
Sn	118	1	No Gas	42311	0.01
Sb	121	1	No Gas	52260	0.00
Ba	137	1	No Gas	19695	0.01
Tl	205	1	No Gas	102033	0.00
Tl	203	1	No Gas	43362	0.01
Pb	208	1	No Gas	145563	0.00
U	238	1	No Gas	140918	0.00
Ca	43	2	He	920	1.14
Sb	121	2	He	24253	0.00
Cu	63	1	No Gas	54174	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1417966	1.16	1429276	99.21	70	120	
Ge	72	2	He	1247560	0.91	1272004	98.08	70	120	
Ge	72	1	No Gas	4156025	0.46	4193658	99.10	70	120	

Calibration Standard Report

In	115	1	No Gas	4606793	0.84	4632313	99.45	70	120	
Bi	209	1	No Gas	3877954	0.29	3900842	99.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:34:33-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	27189	0.02
V	51	2	He	52840	0.00
Cr	52	2	He	67820	0.00
Fe	56	2	He	5272042	0.00
Se	78	2	He	998	0.77
As	75	2	He	10018	0.02
Ca	44	2	He	34005	0.01
Na	23	2	He	1063923	0.00
Mg	24	2	He	492753	0.00
K	39	2	He	719844	0.00
Mn	55	2	He	42001	0.01
Co	59	2	He	88745	0.00
Ni	60	2	He	23567	0.00
Cu	63	2	He	64070	0.00
Zn	66	2	He	13757	0.01
Al	27	2	He	9940	0.04
B	11	1	No Gas	102913	0.00
Al	27	1	No Gas	384927	0.00
Si	28	1	No Gas	996524	0.00
Ag	107	1	No Gas	155352	0.00
Cd	111	1	No Gas	29111	0.01
Sr	88	1	No Gas	284596	0.00
Mo	95	1	No Gas	55883	0.01
Sn	118	1	No Gas	95909	0.00
Sb	121	1	No Gas	129492	0.00
Ba	137	1	No Gas	45396	0.01
Tl	205	1	No Gas	254580	0.00
Tl	203	1	No Gas	109415	0.00
Pb	208	1	No Gas	356419	0.00
U	238	1	No Gas	352602	0.00
Ca	43	2	He	1877	0.13
Sb	121	2	He	59564	0.00
Cu	63	1	No Gas	125728	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1413015	0.92	1429276	98.86	70	120	
Ge	72	2	He	1250040	1.11	1272004	98.27	70	120	
Ge	72	1	No Gas	4121121	0.42	4193658	98.27	70	120	

Calibration Standard Report

In	115	1	No Gas	4612400	0.45	4632313	99.57	70	120	
Bi	209	1	No Gas	3899647	1.75	3900842	99.97	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:37:14-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	53544	0.01
V	51	2	He	102838	0.00
Cr	52	2	He	124076	0.00
Fe	56	2	He	10770542	0.00
Se	78	2	He	1741	0.20
As	75	2	He	19748	0.01
Ca	44	2	He	65226	0.00
Na	23	2	He	1902533	0.00
Mg	24	2	He	1011831	0.00
K	39	2	He	1323559	0.00
Mn	55	2	He	84981	0.00
Co	59	2	He	181616	0.00
Ni	60	2	He	47211	0.00
Cu	63	2	He	127931	0.00
Zn	66	2	He	26459	0.01
Al	27	2	He	13867	0.00
B	11	1	No Gas	182919	0.00
Al	27	1	No Gas	530705	0.00
Si	28	1	No Gas	1233004	0.00
Ag	107	1	No Gas	308231	0.00
Cd	111	1	No Gas	58280	0.00
Sr	88	1	No Gas	559838	0.00
Mo	95	1	No Gas	110702	0.00
Sn	118	1	No Gas	185214	0.00
Sb	121	1	No Gas	256522	0.00
Ba	137	1	No Gas	88836	0.00
Tl	205	1	No Gas	500079	0.00
Tl	203	1	No Gas	212416	0.00
Pb	208	1	No Gas	710874	0.00
U	238	1	No Gas	705101	0.00
Ca	43	2	He	3964	0.06
Sb	121	2	He	122876	0.00
Cu	63	1	No Gas	247201	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1396686	0.51	1429276	97.72	70	120	
Ge	72	2	He	1238825	0.63	1272004	97.39	70	120	
Ge	72	1	No Gas	4093381	0.24	4193658	97.61	70	120	

Calibration Standard Report

In	115	1	No Gas	4540879	0.43	4632313	98.03	70	120	
Bi	209	1	No Gas	3846870	1.23	3900842	98.62	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:39:53-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	511367	0.00
V	51	2	He	972970	0.00
Cr	52	2	He	1102025	0.00
Fe	56	2	He	104740625	0.00
Se	78	2	He	16044	0.01
As	75	2	He	193607	0.00
Ca	44	2	He	613747	0.00
Na	23	2	He	16300522	0.00
Mg	24	2	He	9953435	0.00
K	39	2	He	11781614	0.00
Mn	55	2	He	828550	0.00
Co	59	2	He	1752746	0.00
Ni	60	2	He	454379	0.00
Cu	63	2	He	1226524	0.00
Zn	66	2	He	239901	0.00
Al	27	2	He	71713	0.00
B	11	1	No Gas	1632270	0.00
Al	27	1	No Gas	2665272	0.00
Si	28	1	No Gas	5657540	0.00
Ag	107	1	No Gas	2979166	0.00
Cd	111	1	No Gas	567132	0.00
Sr	88	1	No Gas	5386439	0.00
Mo	95	1	No Gas	1088725	0.00
Sn	118	1	No Gas	1791471	0.00
Sb	121	1	No Gas	2510061	0.00
Ba	137	1	No Gas	862010	0.00
Tl	205	1	No Gas	5023606	0.00
Tl	203	1	No Gas	2138361	0.00
Pb	208	1	No Gas	6948439	0.00
U	238	1	No Gas	7186616	0.00
Ca	43	2	He	35907	0.01
Sb	121	2	He	1186069	0.00
Cu	63	1	No Gas	2343584	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1364043	0.23	1429276	95.44	70	120	
Ge	72	2	He	1213889	0.65	1272004	95.43	70	120	
Ge	72	1	No Gas	4010286	0.40	4193658	95.63	70	120	

Calibration Standard Report

In	115	1	No Gas	4444188	0.99	4632313	95.94	70	120	
Bi	209	1	No Gas	3760775	0.39	3900842	96.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:42:34-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1080147	0.00
V	51	2	He	2001200	0.00
Cr	52	2	He	2243865	0.00
Fe	56	2	He	214143177	0.00
Se	78	2	He	32104	0.01
As	75	2	He	391132	0.00
Ca	44	2	He	1260153	0.00
Na	23	2	He	32693224	0.00
Mg	24	2	He	20130258	0.00
K	39	2	He	23650085	0.00
Mn	55	2	He	1683483	0.00
Co	59	2	He	3538650	0.00
Ni	60	2	He	913553	0.00
Cu	63	2	He	2479712	0.00
Zn	66	2	He	481086	0.00
Al	27	2	He	137434	0.00
B	11	1	No Gas	3317100	0.00
Al	27	1	No Gas	5111844	0.00
Si	28	1	No Gas	10710766	0.00
Ag	107	1	No Gas	5912940	0.00
Cd	111	1	No Gas	1143495	0.00
Sr	88	1	No Gas	10960581	0.00
Mo	95	1	No Gas	2214248	0.00
Sn	118	1	No Gas	3543707	0.00
Sb	121	1	No Gas	5056640	0.00
Ba	137	1	No Gas	1732610	0.00
Tl	205	1	No Gas	10032632	0.00
Tl	203	1	No Gas	4236777	0.00
Pb	208	1	No Gas	14050124	0.00
U	238	1	No Gas	14589493	0.00
Ca	43	2	He	73517	0.00
Sb	121	2	He	2451599	0.00
Cu	63	1	No Gas	4687474	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1331983	1.66	1429276	93.19	70	120	
Ge	72	2	He	1207898	0.33	1272004	94.96	70	120	
Ge	72	1	No Gas	3987673	0.22	4193658	95.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4362433	0.72	4632313	94.17	70	120	
Bi	209	1	No Gas	3762471	0.96	3900842	96.45	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T10:56:14-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	97.869	1.292	2032420	1.09	100	97.9	90	110	
Be	9	1	No Gas	107.743	2.402	561923	1.51	100	107.7	90	110	
V	51	2	He	102.244	0.814	1023701	0.76	100	102.2	90	110	
Cr	52	2	He	102.864	1.008	1159788	1.27	100	102.9	90	110	
Fe	56	2	He	9926.072	0.559	106345138	1.37	10000	99.3	90	110	
Se	78	2	He	102.650	1.806	16629	2.91	100	102.6	90	110	
As	75	2	He	102.324	0.712	200817	1.45	100	102.3	90	110	
Ca	44	2	He	9948.603	1.154	627919	2.27	10000	99.5	90	110	
Na	23	2	He	9896.571	1.361	16361064	1.95	10000	99.0	90	110	
Mg	24	2	He	9989.209	1.451	10081763	2.10	10000	99.9	90	110	
K	39	2	He	10015.284	1.490	11949136	2.38	10000	100.2	90	110	
Mn	55	2	He	103.367	1.343	871873	1.02	100	103.4	90	110	
Co	59	2	He	103.280	0.677	1832838	0.47	100	103.3	90	110	
Ni	60	2	He	103.030	0.621	472663	0.55	100	103.0	90	110	
Cu	63	2	He	102.358	0.833	1273193	0.30	100	102.4	90	110	
Zn	66	2	He	102.415	0.467	248281	0.70	100	102.4	90	110	
Al	27	2	He	103.625	2.477	74236	3.36	100	103.6	90	110	
B	11	1	No Gas	480.068	2.691	1598379	1.82	500	96.0	90	110	
Al	27	1	No Gas	104.357	0.229	2760534	1.67	100	104.4	90	110	
Si	28	1	No Gas	504.141	0.559	5739898	1.57	500	100.8	90	110	
Ag	107	1	No Gas	100.902	1.822	2986895	1.35	100	100.9	90	110	
Cd	111	1	No Gas	101.463	1.396	578888	0.89	100	101.5	90	110	
Sr	88	1	No Gas	100.634	1.337	5497251	0.80	100	100.6	90	110	
Mo	95	1	No Gas	98.488	2.224	1086300	1.72	100	98.5	90	110	
Sn	118	1	No Gas	100.403	1.184	1783958	0.79	100	100.4	90	110	
Sb	121	1	No Gas	102.144	0.733	2576159	1.70	100	102.1	90	110	
Ba	137	1	No Gas	101.543	1.322	878741	1.23	100	101.5	90	110	
Tl	205	1	No Gas	102.136	1.817	5135920	1.16	100	102.1	90	110	
Tl	203	1	No Gas	103.079	2.570	2192275	1.58	100	103.1	90	110	
Pb	208	1	No Gas	101.812	1.148	7153631	1.86	100	101.8	90	110	
U	238	1	No Gas	96.112	1.624	7005484	1.97	100	96.1	90	110	
Ca	43	2	He	9990.857	2.042	36782	3.18	10000	99.9	90	110	
Sb	121	2	He	101.204	1.184	1238684	1.42	100	101.2	90	110	
Ti	47	2	He	99.981	1.816	37217	1.54	100	100.0	90	110	
Cu	63	1	No Gas	104.960	1.273	2458866	2.83	100	105.0	90	110	
Se	82	1	No Gas	104.404	1.286	38020	1.73	100	104.4	90	110	
Zr	90	1	No Gas	75.950	1.713	2645714	1.18	100	75.9	90	110	ICV Main CR1 Failed
Zr	90	2	He	75.970	1.847	1148959	2.02	100	76.0	90	1100	ICV Main CR1 Failed

QC ISTD Table

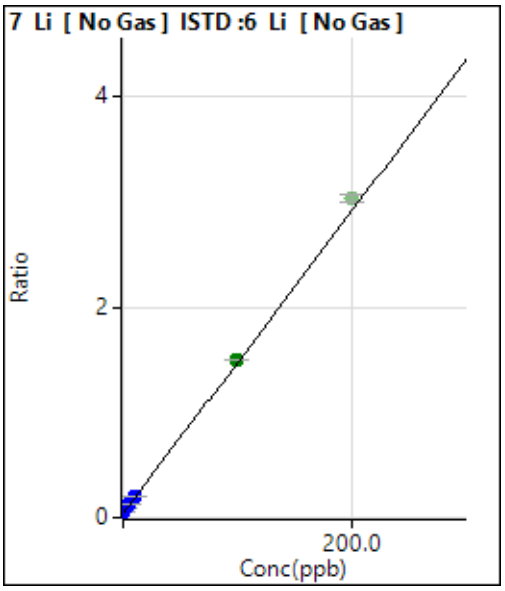
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1391018	1.05	1429276	97.32	70	120	
Ge	72	2	He	1215084	1.14	1272004	95.53	70	120	
Ge	72	1	No Gas	3987598	1.58	4193658	95.09	70	120	
In	115	1	No Gas	4376931	0.54	4632313	94.49	70	120	
Bi	209	1	No Gas	3770555	1.40	3900842	96.66	70	120	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/29/2024 10:29:10 AM
2	011CALS.d	2/10/200	5/29/2024 10:31:53 AM
3	012CALS.d	5/25/500	5/29/2024 10:34:33 AM
4	013CALS.d	10/50/100	5/29/2024 10:37:14 AM
5	014CALS.d	100/500/10K	5/29/2024 10:39:53 AM
6	015CALS.d	200/1000/20K	5/29/2024 10:42:34 AM

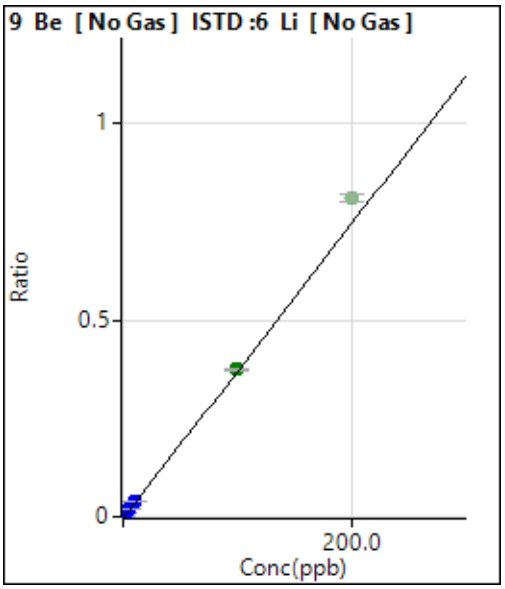
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80608.82	0.0564	P	0.6	
2	☐	2.000	1.915	118924.25	0.0839	P	1.8	-4.3
3	☐	5.000	4.805	177155.72	0.1254	P	1.1	-3.9
4	☐	10.000	9.859	276433.86	0.1979	P	1.8	-1.4
5	☐	100.000	100.026	2035333.98	1.4921	A	0.3	0.0
6	☑	200.000		4040253.07	3.0340	A	2.2	

y = 0.0144 * x + 0.0564
R = 1.0000
DL = 0.0661 ppb
BEC = 3.929 ppb

Weight: <None>
Min Conc: <None>

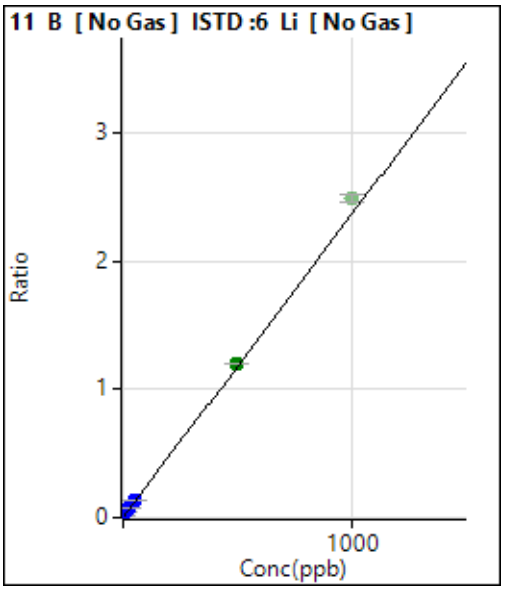


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	29.8	
2	☐	2.000	1.973	10535.64	0.0074	P	2.5	-1.3
3	☐	5.000	5.123	27189.46	0.0192	P	4.0	2.5
4	☐	10.000	10.215	53544.03	0.0383	P	2.3	2.1
5	☐	100.000	99.973	511366.74	0.3749	A	1.6	0.0
6	☑	200.000		1080146.81	0.8112	A	2.9	

y = 0.0037 * x + 3.1507E-005
R = 1.0000
DL = 0.007517 ppb
BEC = 0.008403 ppb

Weight: <None>
Min Conc: <None>

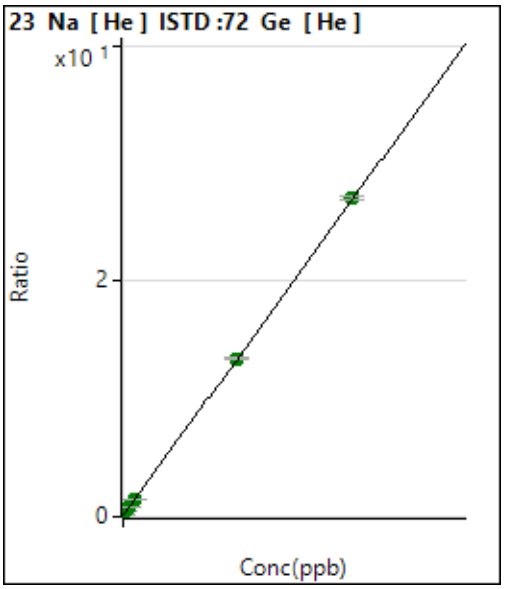
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21621.56	0.0151	P	0.6	
2	☐	10.000	9.925	54689.72	0.0386	P	2.4	-0.7
3	☐	25.000	24.428	102913.21	0.0728	P	1.8	-2.3
4	☐	50.000	49.030	182918.51	0.1310	P	1.8	-1.9
5	☐	500.000	500.127	1632269.56	1.1966	A	0.3	0.0
6	☑	1000.000		3317099.85	2.4910	A	2.5	

y = 0.0024 * x + 0.0151
R = 1.0000
DL = 0.1162 ppb
BEC = 6.403 ppb

Weight: <None>
Min Conc: <None>

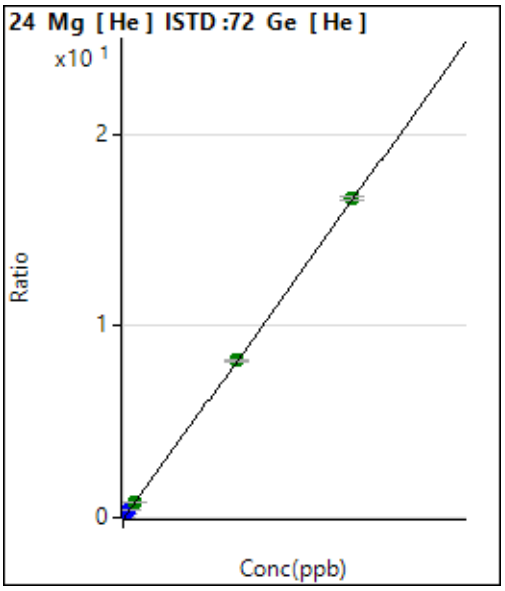


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293767.90	0.2310	P	0.9	
2	☐	200.000	186.715	599579.52	0.4806	A	1.3	-6.6
3	☐	500.000	463.850	1063923.00	0.8512	A	2.0	-7.2
4	☐	1000.000	975.818	1902532.99	1.5358	A	1.0	-2.4
5	☐	10000.00	9868.769	16300522.26	13.4275	A	1.5	-1.3
6	☐	20000.00	20067.86	32693223.68	27.0657	A	1.3	0.3

y = 0.0013 * x + 0.2310
R = 1.0000
DL = 4.627 ppb
BEC = 172.7 ppb

Weight: <None>
Min Conc: <None>

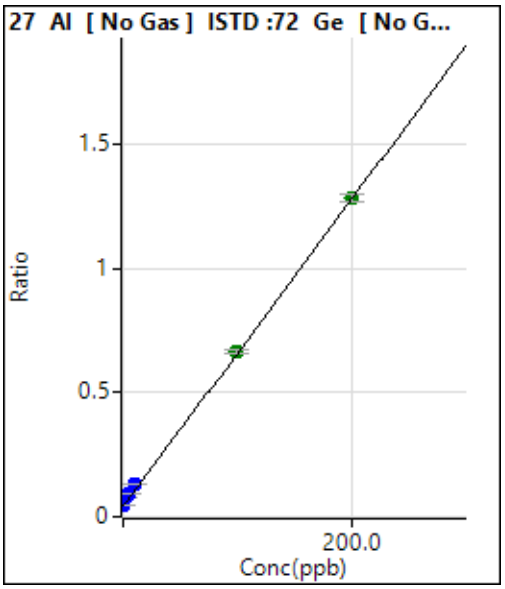
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.11	0.0012	P	7.2	
2	☐	200.000	190.029	198415.28	0.1590	P	2.0	-5.0
3	☐	500.000	473.233	492752.78	0.3942	P	2.3	-5.4
4	☐	1000.000	982.084	1011830.79	0.8168	A	1.5	-1.8
5	☐	10000.00	9871.318	9953434.64	8.1990	A	1.8	-1.3
6	☐	20000.00	20066.00	20130258.03	16.6653	A	1.3	0.3

y = 8.3046E-004 * x + 0.0012
R = 1.0000
DL = 0.322 ppb
BEC = 1.486 ppb

Weight: <None>
Min Conc: <None>

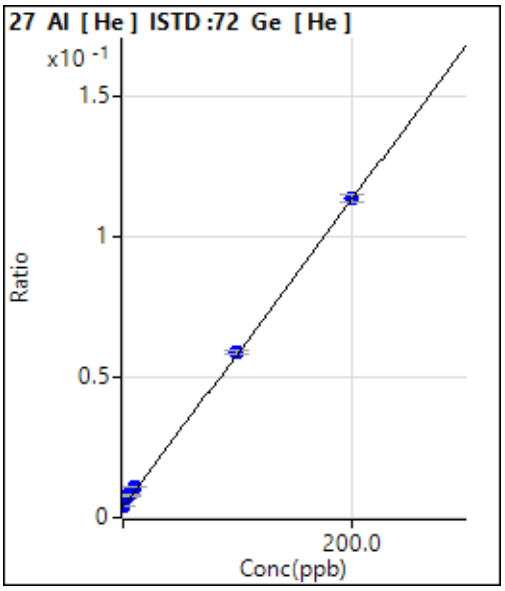


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	199746.04	0.0476	P	2.1	
2	☐	2.000	4.336	309293.57	0.0744	P	1.6	116.8
3	☐	5.000	7.410	384926.87	0.0934	P	1.4	48.2
4	☐	10.000	13.278	530705.45	0.1297	P	2.5	32.8
5	☐	100.000	99.883	2665271.94	0.6646	A	1.8	-0.1
6	☐	200.000	199.811	5111843.57	1.2819	A	1.8	-0.1

y = 0.0062 * x + 0.0476
R = 0.9999
DL = 0.4777 ppb
BEC = 7.711 ppb

Weight: <None>
Min Conc: <None>

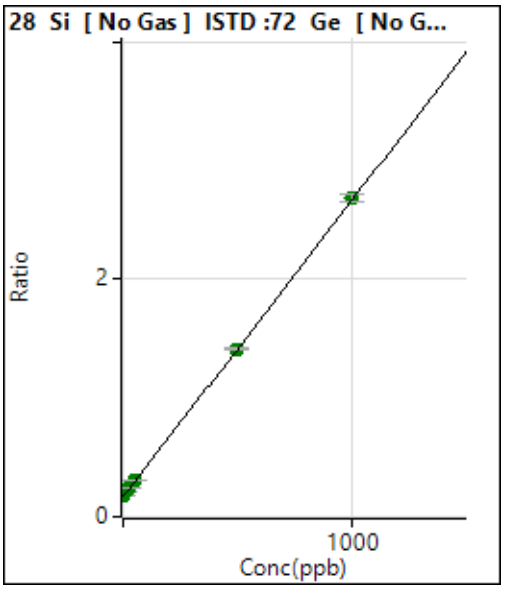
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5504.52	0.0043	P	4.9	
2	☐	2.000	4.473	8456.00	0.0068	P	1.5	123.6
3	☐	5.000	6.621	9940.35	0.0080	P	5.1	32.4
4	☐	10.000	12.536	13867.03	0.0112	P	0.1	25.4
5	☐	100.000	99.951	71713.01	0.0591	P	2.1	0.0
6	☐	200.000	199.832	137433.59	0.1138	P	2.0	-0.1

y = 5.4772E-004 * x + 0.0043
R = 0.9999
DL = 1.165 ppb
BEC = 7.901 ppb

Weight: <None>
Min Conc: <None>

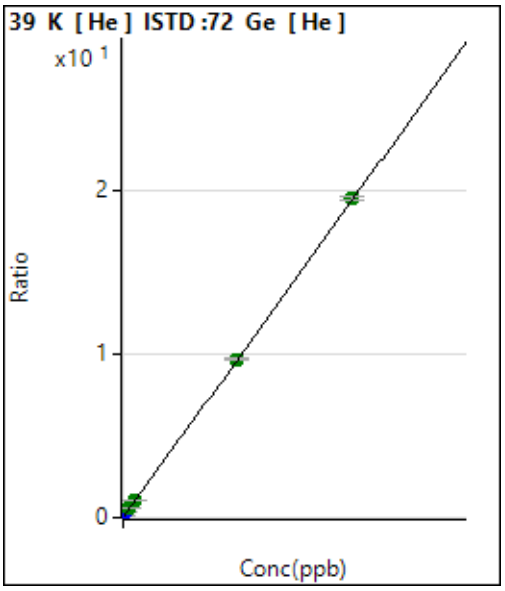


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	762259.39	0.1818	A	0.3	
2	☐	10.000	9.676	855730.90	0.2059	A	0.6	-3.2
3	☐	25.000	24.069	996524.02	0.2418	A	0.6	-3.7
4	☐	50.000	47.884	1233003.63	0.3012	A	0.8	-4.2
5	☐	500.000	492.650	5657539.50	1.4108	A	1.4	-1.5
6	☐	1000.000	1003.807	10710766.09	2.6860	A	2.1	0.4

y = 0.0025 * x + 0.1818
R = 1.0000
DL = 0.7144 ppb
BEC = 72.86 ppb

Weight: <None>
Min Conc: <None>

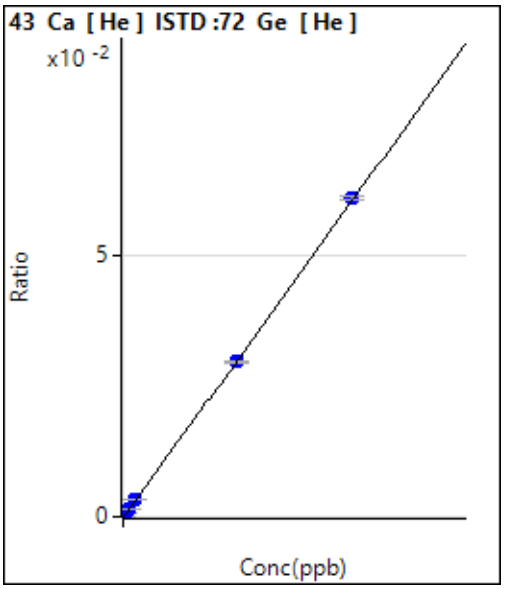
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147083.61	0.1156	P	1.8	
2	☐	200.000	190.956	375395.23	0.3009	P	1.8	-4.5
3	☐	500.000	474.351	719843.82	0.5759	A	1.6	-5.1
4	☐	1000.000	981.991	1323558.68	1.0684	A	1.2	-1.8
5	☐	10000.00	9883.309	11781614.41	9.7052	A	1.1	-1.2
6	☐	20000.00	20059.97	23650084.65	19.5795	A	0.6	0.3

y = 9.7028E-004 * x + 0.1156
R = 1.0000
DL = 6.352 ppb
BEC = 119.2 ppb

Weight: <None>
Min Conc: <None>

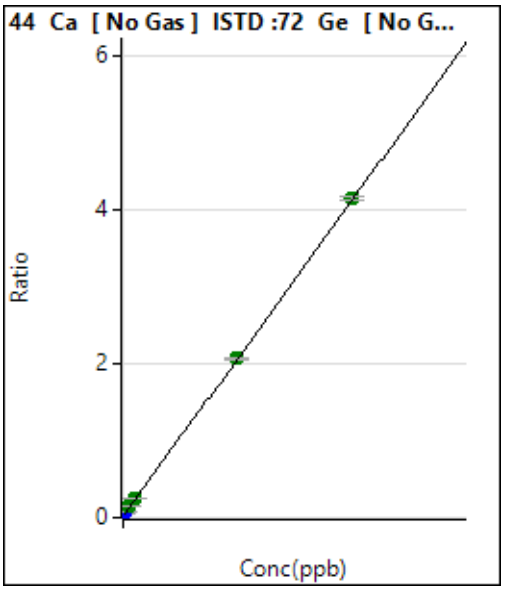


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	40.5	
2	☐	200.000	218.153	920.05	0.0007	P	11.2	9.1
3	☐	500.000	470.856	1876.83	0.0015	P	2.3	-5.8
4	☐	1000.000	1032.924	3963.98	0.0032	P	2.2	3.3
5	☐	10000.00	9762.944	35906.67	0.0296	P	1.6	-2.4
6	☐	20000.00	20117.42	73516.84	0.0609	P	1.3	0.6

y = 3.0216E-006 * x + 7.8699E-005
R = 0.9999
DL = 31.64 ppb
BEC = 26.05 ppb

Weight: <None>
Min Conc: <None>

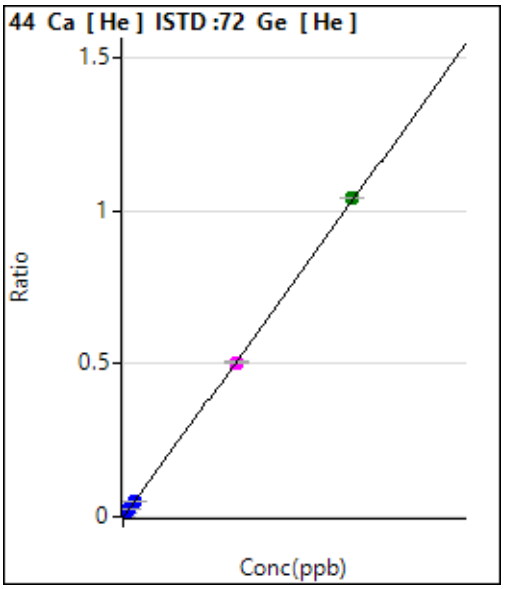
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	168054.53	0.0401	P	1.3	
2	☐	200.000	211.947	347107.31	0.0835	P	1.1	6.0
3	☐	500.000	519.192	603721.05	0.1465	A	2.0	3.8
4	☐	1000.000	1014.017	1014859.10	0.2479	A	1.8	1.4
5	☐	10000.00	9884.048	8285584.87	2.0661	A	2.0	-1.2
6	☐	20000.00	20056.67	16554127.67	4.1514	A	1.7	0.3

y = 2.0498E-004 * x + 0.0401
R = 1.0000
DL = 7.759 ppb
BEC = 195.5 ppb

Weight: <None>
Min Conc: <None>

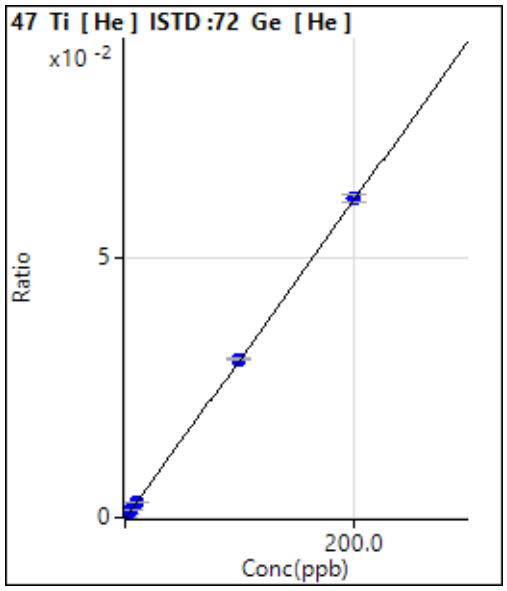


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3213.76	0.0025	P	5.8	
2	☐	200.000	200.944	16106.25	0.0129	P	3.8	0.5
3	☐	500.000	477.402	34005.20	0.0272	P	1.9	-4.5
4	☐	1000.000	969.881	65226.06	0.0527	P	2.3	-3.0
5	☐	10000.00	9732.564	613747.44	0.5056	M	2.0	-2.7
6	☐	20000.00	20135.77	1260152.89	1.0433	A	0.3	0.7

y = 5.1686E-005 * x + 0.0025
R = 0.9999
DL = 8.47 ppb
BEC = 48.9 ppb

Weight: <None>
Min Conc: <None>

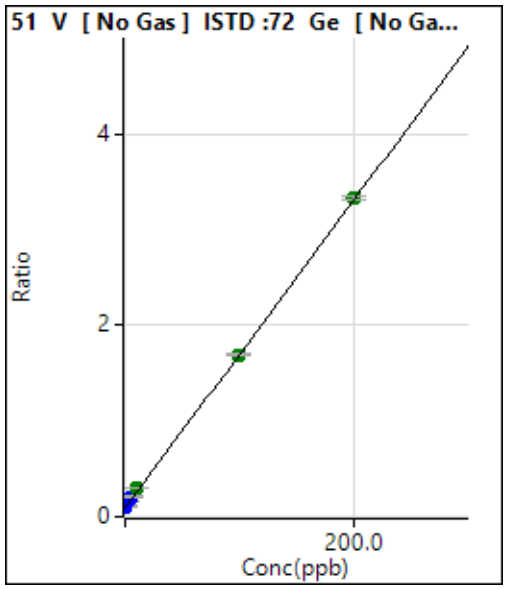
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	68.6	
2	☐	2.000	1.954	763.37	0.0006	P	9.7	-2.3
3	☐	5.000	4.627	1786.82	0.0014	P	6.6	-7.5
4	☐	10.000	9.726	3707.23	0.0030	P	7.7	-2.7
5	☐	100.000	99.266	36919.31	0.0304	P	1.3	-0.7
6	☐	200.000	200.390	74143.89	0.0614	P	1.9	0.2

y = 3.0624E-004 * x + 1.3064E-005
R = 1.0000
DL = 0.08776 ppb
BEC = 0.04266 ppb

Weight: <None>
Min Conc: <None>

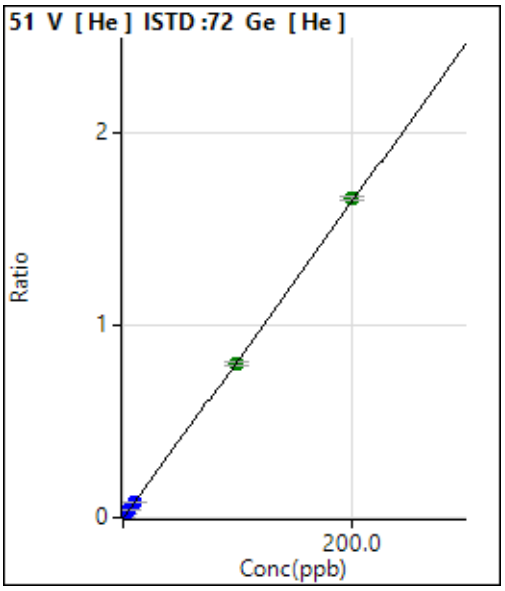


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461834.39	0.1101	P	0.5	
2	☐	2.000	2.988	657127.26	0.1581	P	1.1	49.4
3	☐	5.000	6.251	867554.09	0.2105	P	1.7	25.0
4	☐	10.000	11.736	1222300.28	0.2986	A	1.3	17.4
5	☐	100.000	98.623	6793375.79	1.6940	A	1.7	-1.4
6	☐	200.000	200.560	13283594.36	3.3312	A	1.4	0.3

y = 0.0161 * x + 0.1101
R = 0.9999
DL = 0.1124 ppb
BEC = 6.857 ppb

Weight: <None>
Min Conc: <None>

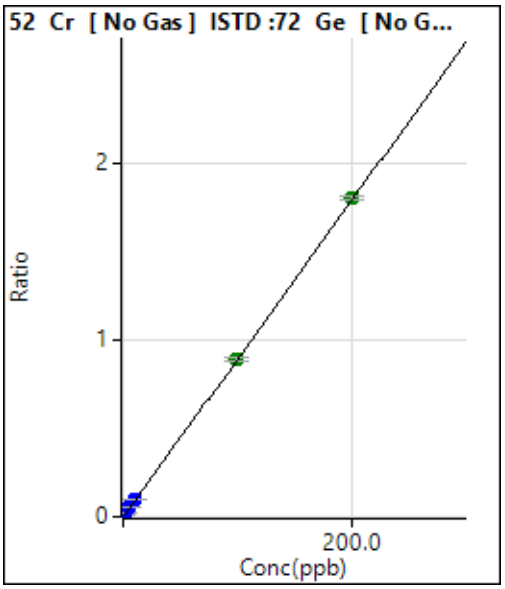
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3734.97	0.0029	P	3.3	
2	☐	2.000	1.910	23221.71	0.0186	P	3.0	-4.5
3	☐	5.000	4.791	52840.29	0.0423	P	3.2	-4.2
4	☐	10.000	9.752	102838.41	0.0830	P	1.5	-2.5
5	☐	100.000	97.243	972969.82	0.8015	A	2.1	-2.8
6	☐	200.000	201.397	2001199.57	1.6567	A	0.8	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.03565 ppb
BEC = 0.3575 ppb

Weight: <None>
Min Conc: <None>

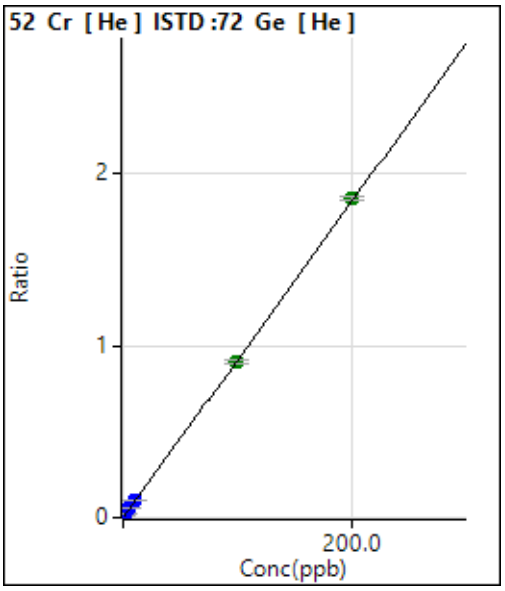


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25513.80	0.0061	P	0.7	
2	☐	2.000	2.049	101436.18	0.0244	P	0.6	2.4
3	☐	5.000	5.010	209728.65	0.0509	P	2.8	0.2
4	☐	10.000	10.075	393690.85	0.0962	P	3.0	0.7
5	☐	100.000	98.818	3568302.24	0.8898	A	1.8	-1.2
6	☐	200.000	200.587	7177513.85	1.7999	A	1.7	0.3

y = 0.0089 * x + 0.0061
R = 1.0000
DL = 0.01407 ppb
BEC = 0.6803 ppb

Weight: <None>
Min Conc: <None>

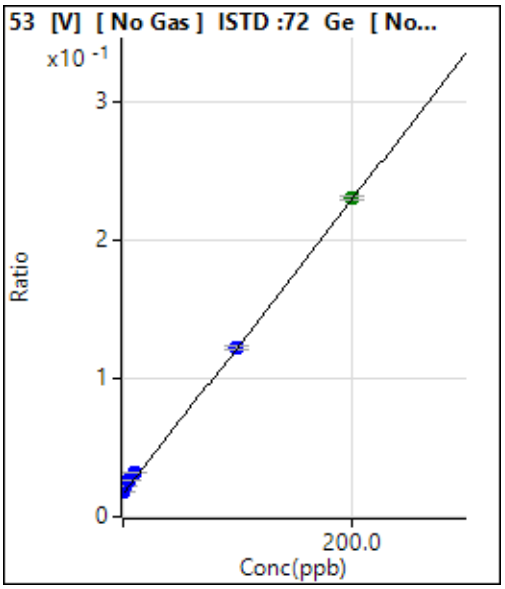
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11488.27	0.0090	P	5.2	
2	☐	2.000	1.952	33644.44	0.0270	P	2.0	-2.4
3	☐	5.000	4.921	67819.51	0.0543	P	3.6	-1.6
4	☐	10.000	9.915	124075.61	0.1002	P	1.3	-0.9
5	☐	100.000	97.776	1102025.32	0.9077	A	2.7	-2.2
6	☐	200.000	201.119	2243865.12	1.8576	A	1.0	0.6

y = 0.0092 * x + 0.0090
R = 0.9999
DL = 0.1524 ppb
BEC = 0.9824 ppb

Weight: <None>
Min Conc: <None>

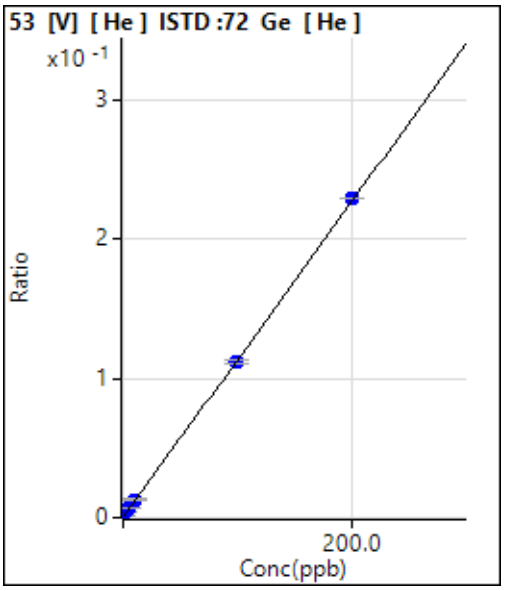


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73809.56	0.0176	P	1.5	
2	☐	2.000	4.588	93380.15	0.0225	P	2.0	129.4
3	☐	5.000	8.050	107743.59	0.0261	P	1.2	61.0
4	☐	10.000	13.809	132031.80	0.0323	P	0.9	38.1
5	☐	100.000	98.709	490674.39	0.1224	P	2.1	-1.3
6	☐	200.000	200.353	918086.91	0.2302	A	1.4	0.2

y = 0.0011 * x + 0.0176
R = 0.9998
DL = 0.722 ppb
BEC = 16.58 ppb

Weight: <None>
Min Conc: <None>

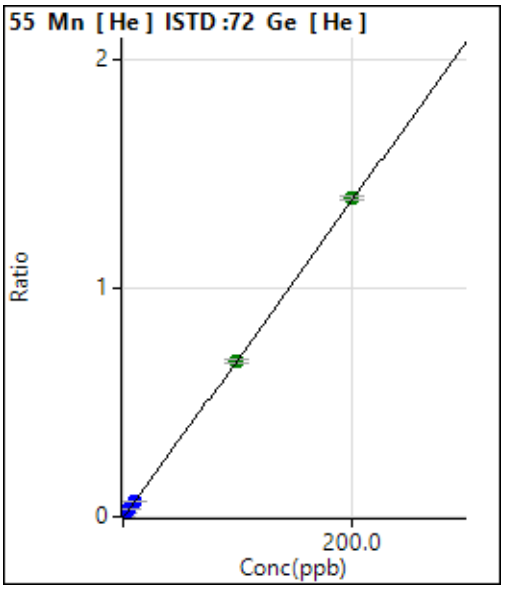
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1713.47	0.0013	P	7.2	
2	☐	2.000	2.199	4790.93	0.0038	P	6.0	10.0
3	☐	5.000	5.099	8906.37	0.0071	P	5.5	2.0
4	☐	10.000	10.192	15972.79	0.0129	P	4.9	1.9
5	☐	100.000	97.767	136121.58	0.1121	P	2.3	-2.2
6	☐	200.000	201.102	276867.57	0.2292	P	0.5	0.6

y = 0.0011 * x + 0.0013
R = 0.9999
DL = 0.2576 ppb
BEC = 1.189 ppb

Weight: <None>
Min Conc: <None>

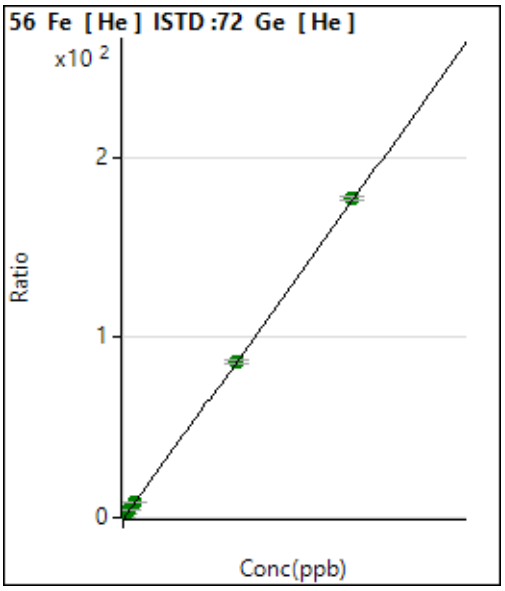


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0008	P	12.0	
2	☐	2.000	1.901	17438.01	0.0140	P	3.9	-5.0
3	☐	5.000	4.731	42000.91	0.0336	P	2.6	-5.4
4	☐	10.000	9.779	84980.74	0.0686	P	3.7	-2.2
5	☐	100.000	98.303	828549.83	0.6825	A	2.9	-1.7
6	☐	200.000	200.867	1683482.89	1.3937	A	0.9	0.4

y = 0.0069 * x + 7.9444E-004
R = 1.0000
DL = 0.04136 ppb
BEC = 0.1146 ppb

Weight: <None>
Min Conc: <None>

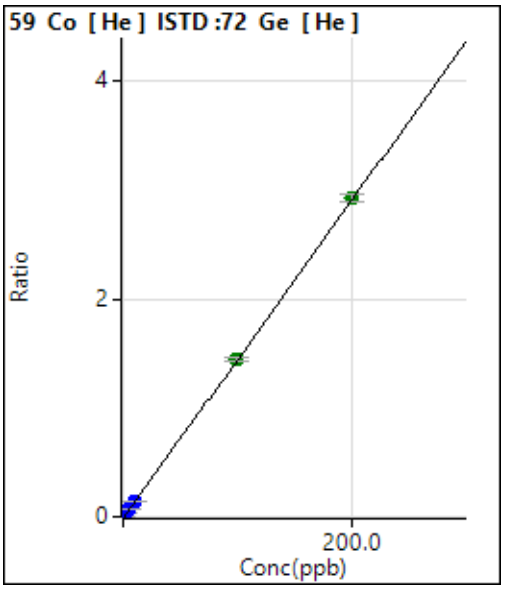
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27424.18	0.0216	P	2.1	
2	☐	200.000	190.126	2117621.74	1.6975	A	2.8	-4.9
3	☐	500.000	476.057	5272041.69	4.2180	A	2.0	-4.8
4	☐	1000.000	983.947	10770542.34	8.6951	A	2.6	-1.6
5	☐	10000.00	9785.140	104740625.1	86.2777	A	2.1	-2.1
6	☐	20000.00	20108.93	2141431768	177.282	A	1.1	0.5

y = 0.0088 * x + 0.0216
R = 0.9999
DL = 0.1538 ppb
BEC = 2.446 ppb

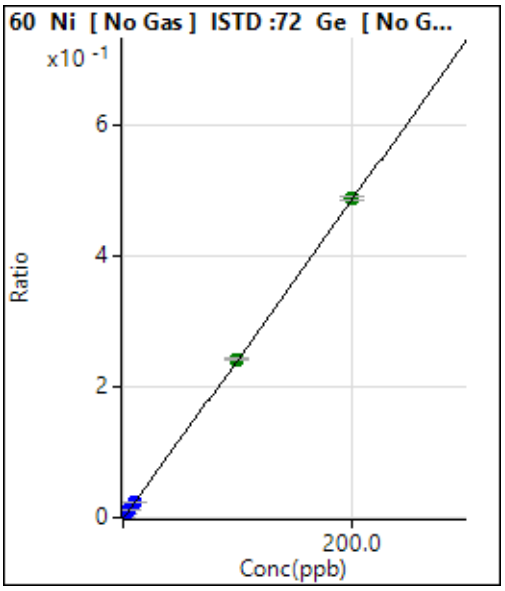
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	12.4	
2	☐	2.000	1.951	35686.65	0.0286	P	2.5	-2.4
3	☐	5.000	4.854	88744.77	0.0710	P	1.7	-2.9
4	☐	10.000	10.032	181616.32	0.1466	P	3.1	0.3
5	☐	100.000	98.851	1752746.12	1.4438	A	1.9	-1.1
6	☐	200.000	200.577	3538649.94	2.9295	A	2.3	0.3

y = 0.0146 * x + 1.1007E-004
R = 1.0000
DL = 0.002804 ppb
BEC = 0.007536 ppb

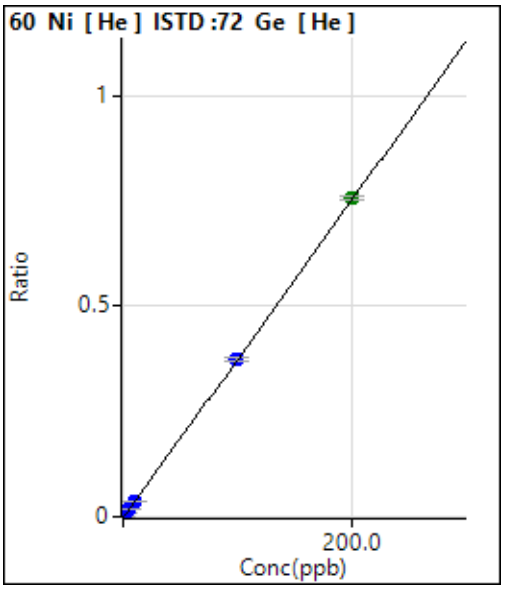
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0004	P	8.9	
2	☐	2.000	1.992	21790.93	0.0052	P	1.1	-0.4
3	☐	5.000	4.948	51275.70	0.0124	P	3.1	-1.0
4	☐	10.000	9.899	100280.86	0.0245	P	1.8	-1.0
5	☐	100.000	99.415	972410.59	0.2425	A	1.2	-0.6
6	☐	200.000	200.299	1946577.11	0.4881	A	1.5	0.1

y = 0.0024 * x + 3.9352E-004
R = 1.0000
DL = 0.04319 ppb
BEC = 0.1616 ppb

Weight: <None>
Min Conc: <None>

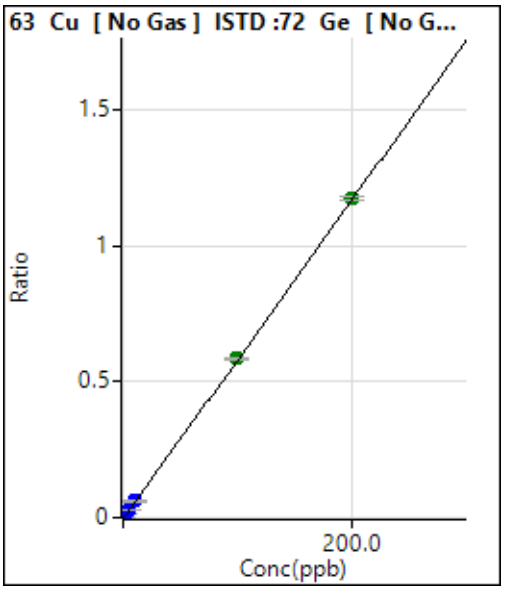


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.37	0.0006	P	6.5	
2	☐	2.000	1.925	9746.94	0.0078	P	3.5	-3.7
3	☐	5.000	4.854	23567.16	0.0189	P	0.8	-2.9
4	☐	10.000	9.962	47211.29	0.0381	P	3.0	-0.4
5	☐	100.000	99.122	454378.57	0.3743	P	2.2	-0.9
6	☐	200.000	200.445	913553.40	0.7563	A	1.0	0.2

y = 0.0038 * x + 5.5310E-004
R = 1.0000
DL = 0.02866 ppb
BEC = 0.1467 ppb

Weight: <None>
Min Conc: <None>

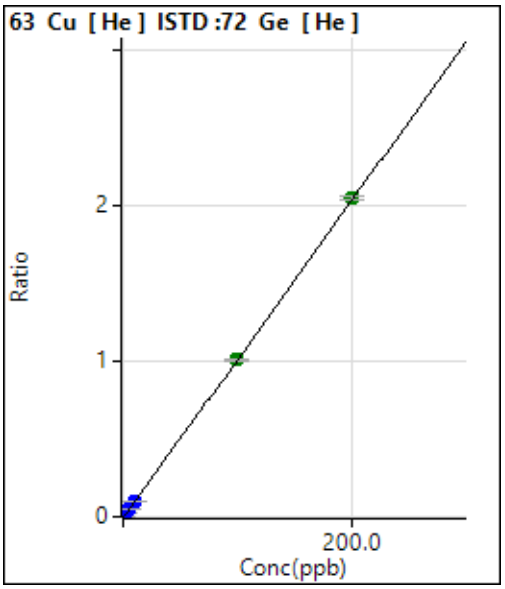
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3750.60	0.0009	P	3.8	
2	☐	2.000	2.070	54173.59	0.0130	P	2.4	3.5
3	☐	5.000	5.049	125728.37	0.0305	P	3.2	1.0
4	☐	10.000	10.143	247200.56	0.0604	P	1.6	1.4
5	☐	100.000	99.478	2343584.18	0.5844	A	1.4	-0.5
6	☐	200.000	200.252	4687473.68	1.1755	A	1.6	0.1

y = 0.0059 * x + 8.9430E-004
R = 1.0000
DL = 0.01717 ppb
BEC = 0.1525 ppb

Weight: <None>
Min Conc: <None>

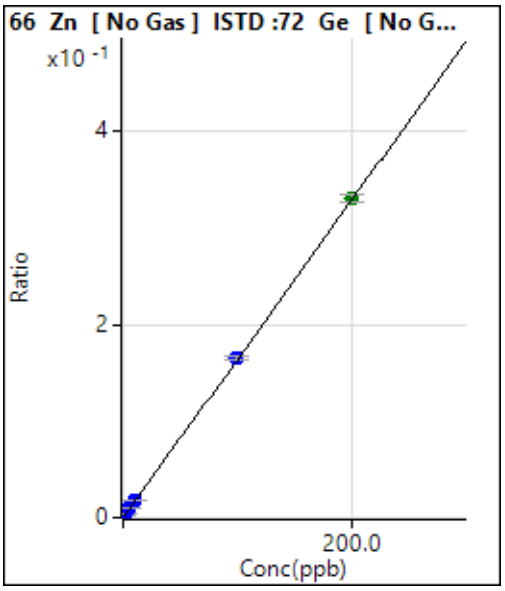


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1903.50	0.0015	P	2.9	
2	☐	2.000	1.944	26659.43	0.0214	P	3.7	-2.8
3	☐	5.000	4.868	64069.58	0.0513	P	3.3	-2.6
4	☐	10.000	9.956	127931.06	0.1033	P	1.5	-0.4
5	☐	100.000	98.686	1226524.49	1.0103	A	1.4	-1.3
6	☐	200.000	200.663	2479711.99	2.0528	A	1.7	0.3

y = 0.0102 * x + 0.0015
R = 1.0000
DL = 0.01253 ppb
BEC = 0.1464 ppb

Weight: <None>
Min Conc: <None>

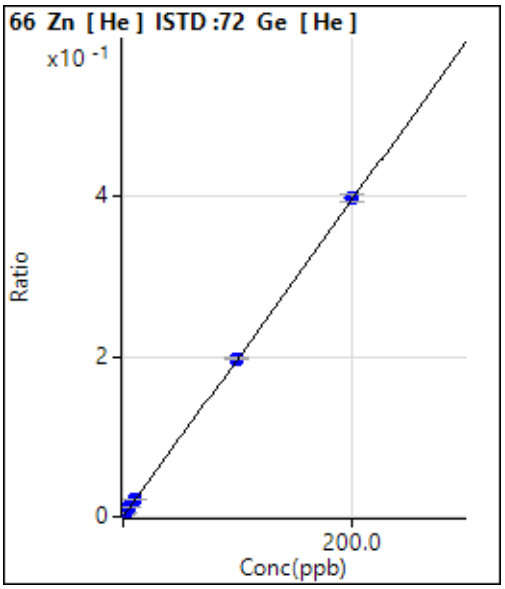
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6318.24	0.0015	P	1.4	
2	☐	2.000	1.851	18903.28	0.0045	P	3.3	-7.5
3	☐	5.000	4.831	38932.15	0.0094	P	1.6	-3.4
4	☐	10.000	9.998	73436.22	0.0179	P	3.5	0.0
5	☐	100.000	99.647	662914.18	0.1653	P	1.9	-0.4
6	☐	200.000	200.182	1318132.35	0.3306	A	2.0	0.1

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.03766 ppb
BEC = 0.9166 ppb

Weight: <None>
Min Conc: <None>

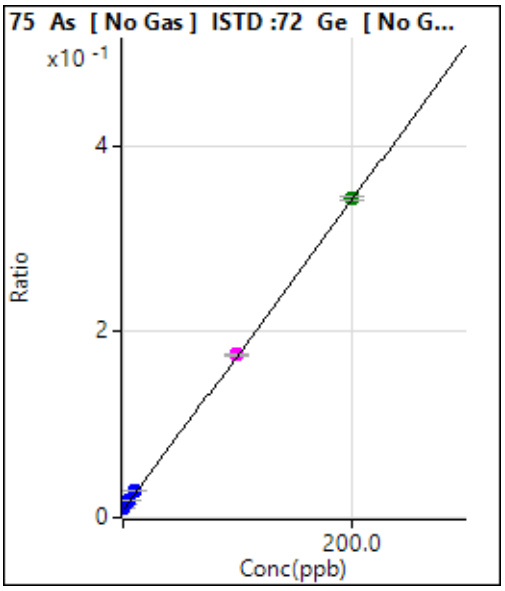


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.91	0.0019	P	5.1	
2	☐	2.000	1.672	6464.98	0.0052	P	2.5	-16.4
3	☐	5.000	4.618	13757.14	0.0110	P	1.5	-7.6
4	☐	10.000	9.856	26459.15	0.0214	P	2.1	-1.4
5	☐	100.000	99.014	239901.04	0.1976	P	1.8	-1.0
6	☐	200.000	200.513	481085.83	0.3983	P	2.2	0.3

y = 0.0020 * x + 0.0019
R = 1.0000
DL = 0.1463 ppb
BEC = 0.949 ppb

Weight: <None>
Min Conc: <None>

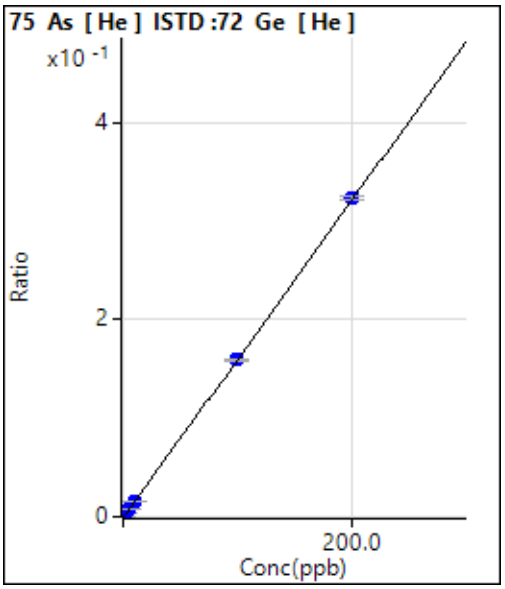
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40617.31	0.0097	P	1.4	
2	☐	2.000	2.995	61009.38	0.0147	P	1.2	49.8
3	☐	5.000	5.805	79802.28	0.0194	P	2.7	16.1
4	☐	10.000	11.197	116073.48	0.0284	P	1.4	12.0
5	☐	100.000	99.367	703303.64	0.1754	M	1.4	-0.6
6	☐	200.000	200.227	1369997.22	0.3436	A	1.7	0.1

y = 0.0017 * x + 0.0097
R = 1.0000
DL = 0.252 ppb
BEC = 5.808 ppb

Weight: <None>
Min Conc: <None>

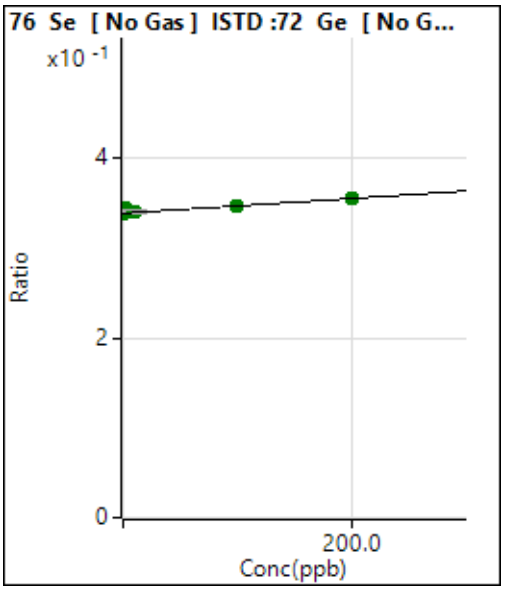


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.12	0.0003	P	8.3	
2	☐	2.000	1.898	4179.56	0.0034	P	6.1	-5.1
3	☐	5.000	4.791	10018.14	0.0080	P	3.1	-4.2
4	☐	10.000	9.707	19747.64	0.0159	P	3.5	-2.9
5	☐	100.000	98.735	193606.79	0.1595	P	1.6	-1.3
6	☐	200.000	200.653	391132.07	0.3238	P	1.5	0.3

y = 0.0016 * x + 2.9179E-004
R = 1.0000
DL = 0.04521 ppb
BEC = 0.181 ppb

Weight: <None>
Min Conc: <None>

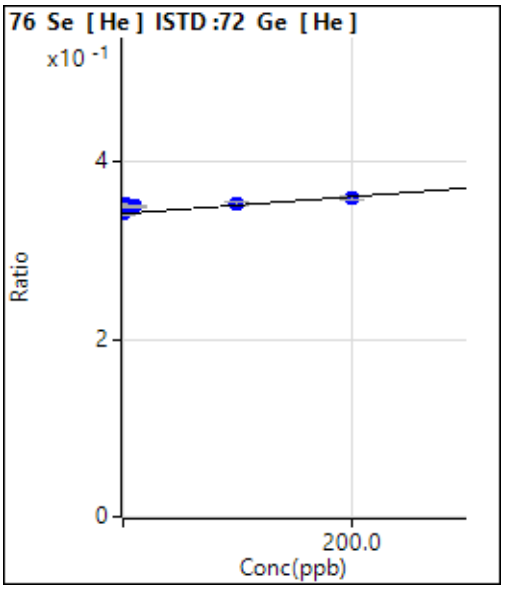
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1419884.15	0.3386	A	0.7	
2	☐	2.000	60.227	1427919.77	0.3436	A	0.8	2911.4
3	☐	5.000	28.505	1405097.79	0.3410	A	0.8	470.1
4	☐	10.000	26.996	1395120.55	0.3408	A	1.0	170.0
5	☐	100.000	94.524	1389318.06	0.3464	A	0.4	-5.5
6	☐	200.000	200.718	1416667.84	0.3553	A	0.1	0.4

y = 8.3106E-005 * x + 0.3386
R = 0.9601
DL = 84.36 ppb
BEC = 4074 ppb

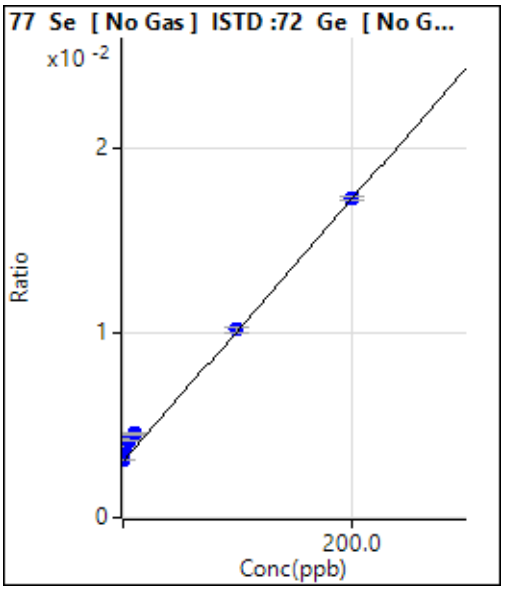
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435030.00	0.3420	P	0.4	
2	☐	2.000	109.615	439982.58	0.3527	P	0.6	5380.7
3	☐	5.000	85.565	437915.80	0.3503	P	1.2	1611.3
4	☐	10.000	83.546	433738.20	0.3501	P	0.6	735.5
5	☐	100.000	119.644	429273.79	0.3536	P	0.8	19.6
6	☐	200.000	183.411	434649.32	0.3598	P	1.2	-8.3

y = 9.7324E-005 * x + 0.3420
R = 0.7942
DL = 40.95 ppb
BEC = 3514 ppb

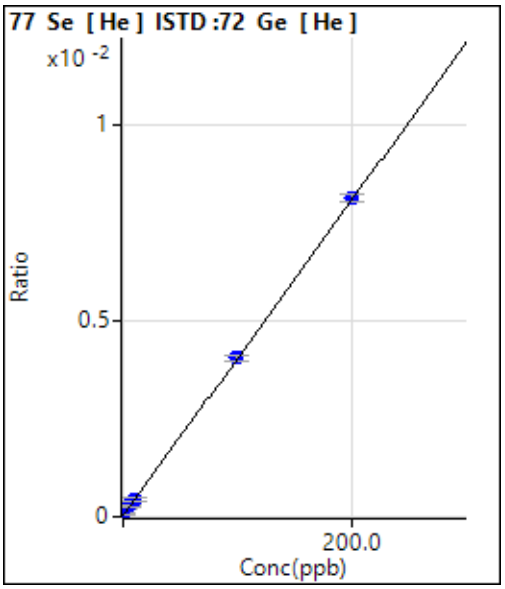
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13143.23	0.0031	P	0.5	
2	☐	2.000	10.169	16016.41	0.0039	P	1.4	408.4
3	☐	5.000	14.977	17284.56	0.0042	P	1.3	199.5
4	☐	10.000	19.879	18589.58	0.0045	P	1.5	98.8
5	☐	100.000	99.077	40694.29	0.0101	P	2.8	-0.9
6	☐	200.000	199.636	68850.06	0.0173	P	1.3	-0.2

y = 7.0788E-005 * x + 0.0031
R = 0.9986
DL = 0.7267 ppb
BEC = 44.27 ppb

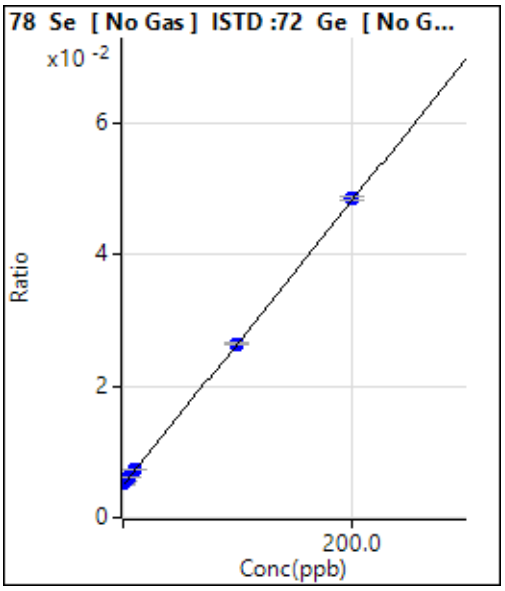
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	5.5	
2	☐	2.000	4.025	293.34	0.0002	P	24.3	101.3
3	☐	5.000	5.006	343.34	0.0003	P	5.9	0.1
4	☐	10.000	8.954	536.69	0.0004	P	15.3	-10.5
5	☐	100.000	99.038	4920.99	0.0041	P	4.2	-1.0
6	☐	200.000	200.513	9823.70	0.0081	P	2.5	0.3

y = 4.0196E-005 * x + 7.3358E-005
R = 0.9999
DL = 0.3024 ppb
BEC = 1.825 ppb

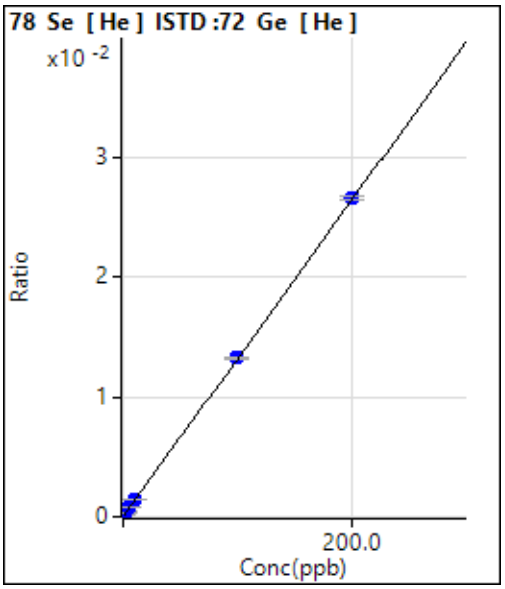
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21700.86	0.0052	P	2.7	
2	☐	2.000	1.436	22792.60	0.0055	P	2.2	-28.2
3	☐	5.000	4.676	25487.47	0.0062	P	0.7	-6.5
4	☐	10.000	9.469	29552.38	0.0072	P	0.8	-5.3
5	☐	100.000	98.475	106040.09	0.0264	P	1.5	-1.5
6	☐	200.000	200.803	193571.77	0.0485	P	1.4	0.4

y = 2.1598E-004 * x + 0.0052
R = 1.0000
DL = 1.907 ppb
BEC = 23.96 ppb

Weight: <None>
Min Conc: <None>

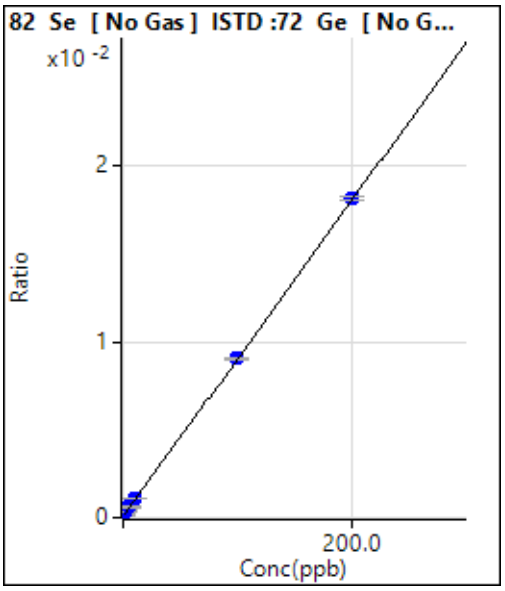


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.00	0.0002	P	13.6	
2	☐	2.000	1.860	498.01	0.0004	P	4.5	-7.0
3	☐	5.000	4.892	998.04	0.0008	P	8.8	-2.2
4	☐	10.000	9.497	1741.45	0.0014	P	3.9	-5.0
5	☐	100.000	99.104	16044.13	0.0132	P	1.5	-0.9
6	☐	200.000	200.477	32103.68	0.0266	P	1.8	0.2

y = 1.3180E-004 * x + 1.5411E-004
R = 1.0000
DL = 0.4782 ppb
BEC = 1.169 ppb

Weight: <None>
Min Conc: <None>

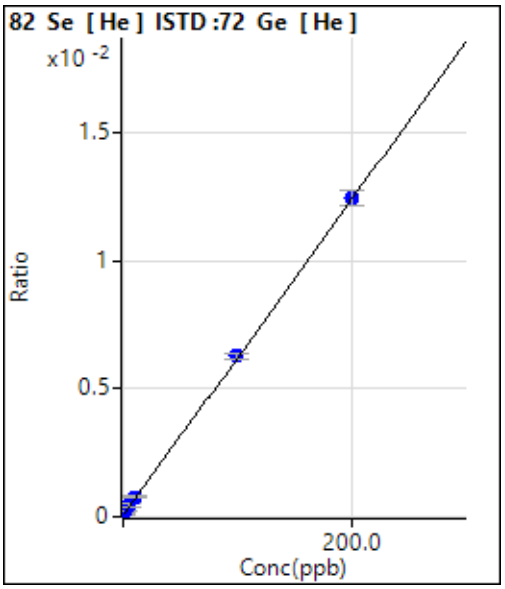
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	706.70	0.0002	P	15.2	
2	☐	2.000	2.376	1586.79	0.0004	P	8.3	18.8
3	☐	5.000	4.939	2520.28	0.0006	P	7.5	-1.2
4	☐	10.000	10.532	4557.52	0.0011	P	3.1	5.3
5	☐	100.000	98.995	36292.15	0.0090	P	0.9	-1.0
6	☐	200.000	200.474	72389.39	0.0182	P	1.4	0.2

y = 8.9713E-005 * x + 1.6852E-004
R = 1.0000
DL = 0.855 ppb
BEC = 1.878 ppb

Weight: <None>
Min Conc: <None>

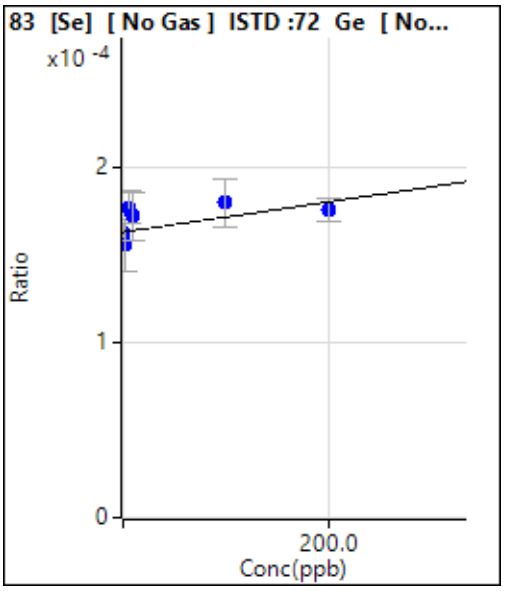


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	21.8	
2	☐	2.000	2.333	320.01	0.0003	P	4.0	16.6
3	☐	5.000	5.433	560.03	0.0004	P	20.3	8.7
4	☐	10.000	10.906	973.39	0.0008	P	4.5	9.1
5	☐	100.000	99.808	7615.64	0.0063	P	4.0	-0.2
6	☐	200.000	200.037	15048.64	0.0125	P	4.8	0.0

y = 6.1720E-005 * x + 1.1259E-004
R = 1.0000
DL = 1.191 ppb
BEC = 1.824 ppb

Weight: <None>
Min Conc: <None>

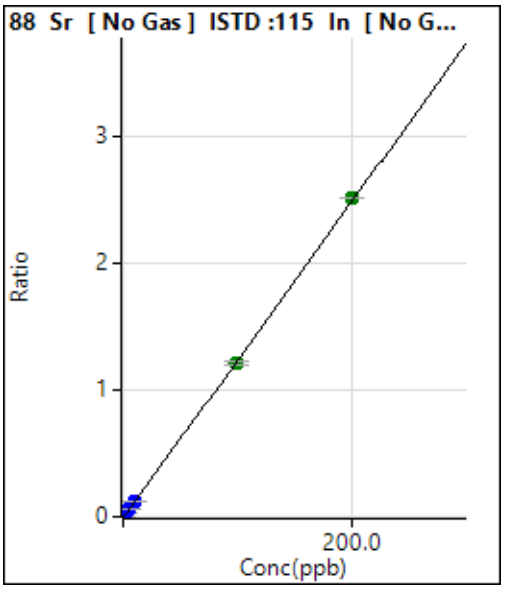
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	683.36	0.0002	P	6.7	
2	☐	2.000	-83.994	646.70	0.0002	P	18.9	-4299.7
3	☐	5.000	164.592	730.03	0.0002	P	10.2	3191.8
4	☐	10.000	102.388	703.36	0.0002	P	15.5	923.9
5	☐	100.000	192.720	720.04	0.0002	P	15.4	92.7
6	☐	200.000	145.891	700.03	0.0002	P	7.8	-27.1

y = 8.6578E-008 * x + 1.6294E-004
R = 0.5143
DL = 378.9 ppb
BEC = 1882 ppb

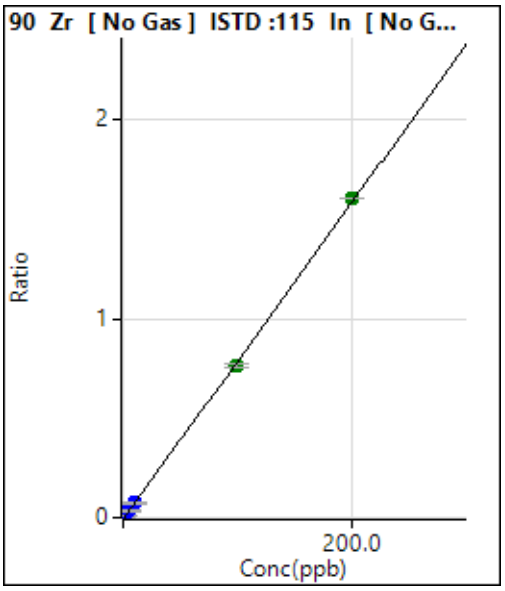
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9133.27	0.0020	P	3.8	
2	☐	2.000	1.954	121270.54	0.0263	P	0.3	-2.3
3	☐	5.000	4.794	284595.76	0.0617	P	2.3	-4.1
4	☐	10.000	9.735	559837.61	0.1233	P	2.6	-2.6
5	☐	100.000	97.117	5386439.09	1.2122	A	2.5	-2.9
6	☐	200.000	201.460	10960580.67	2.5125	A	0.2	0.7

y = 0.0125 * x + 0.0020
R = 0.9999
DL = 0.01787 ppb
BEC = 0.1582 ppb

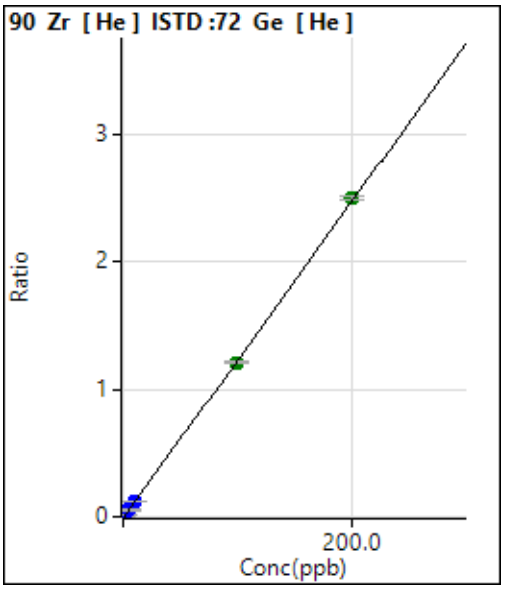
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1570.13	0.0003	P	11.6	
2	☐	2.000	1.606	60418.91	0.0131	P	1.5	-19.7
3	☐	5.000	4.226	156601.02	0.0340	P	3.9	-15.5
4	☐	10.000	9.139	331641.48	0.0730	P	2.0	-8.6
5	☐	100.000	96.408	3409285.05	0.7672	A	2.3	-3.6
6	☐	200.000	201.863	7006775.94	1.6061	A	0.6	0.9

y = 0.0080 * x + 3.3893E-004
R = 0.9998
DL = 0.01479 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

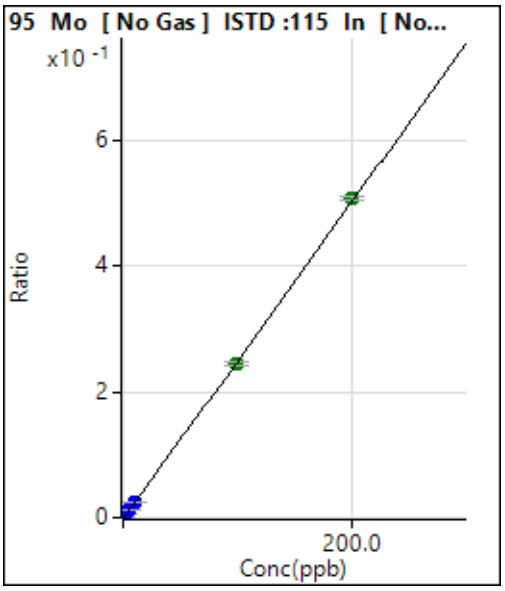


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1650.13	0.0013	P	3.3	
2	☐	2.000	1.581	26125.56	0.0209	P	4.3	-21.0
3	☐	5.000	4.218	67146.63	0.0537	P	3.7	-15.6
4	☐	10.000	9.089	141559.93	0.1143	P	1.7	-9.1
5	☐	100.000	97.357	1470607.32	1.2114	A	1.3	-2.6
6	☐	200.000	201.391	3025304.33	2.5046	A	1.7	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.01023 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

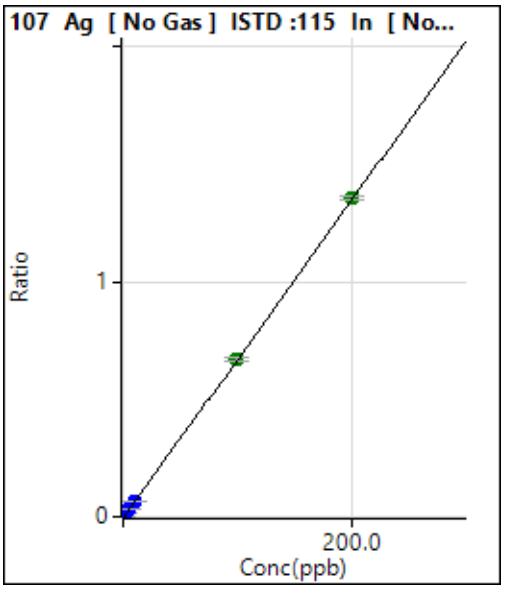
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0000	P	8.4	
2	☐	2.000	1.845	21644.48	0.0047	P	3.1	-7.8
3	☐	5.000	4.789	55882.77	0.0121	P	5.1	-4.2
4	☐	10.000	9.656	110702.46	0.0244	P	2.8	-3.4
5	☐	100.000	97.220	1088724.80	0.2450	A	2.1	-2.8
6	☐	200.000	201.414	2214248.20	0.5075	A	1.2	0.7

y = 0.0025 * x + 4.9646E-005
R = 0.9999
DL = 0.004983 ppb
BEC = 0.0197 ppb

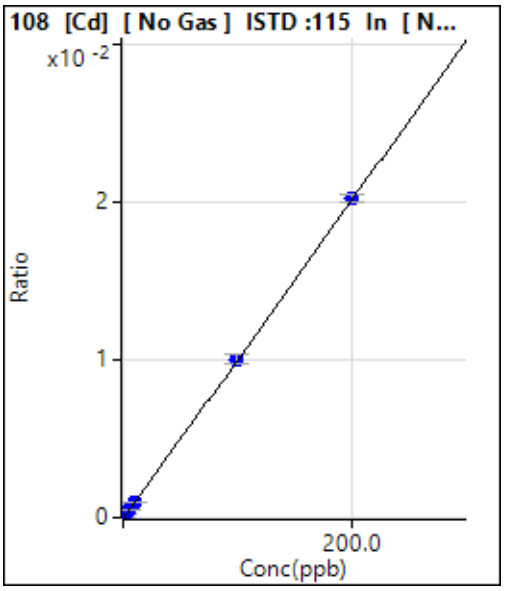
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1593.46	0.0003	P	6.7	
2	☐	2.000	2.041	65151.99	0.0141	P	2.7	2.1
3	☐	5.000	4.932	155351.91	0.0337	P	3.4	-1.4
4	☐	10.000	9.990	308231.04	0.0679	P	1.3	-0.1
5	☐	100.000	99.127	2979166.31	0.6705	A	2.5	-0.9
6	☐	200.000	200.438	5912939.70	1.3553	A	1.3	0.2

y = 0.0068 * x + 3.4395E-004
R = 1.0000
DL = 0.01028 ppb
BEC = 0.05088 ppb

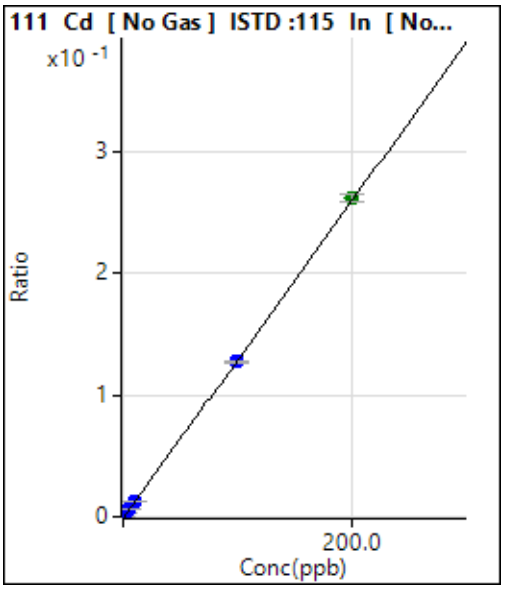
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	2.110	1000.06	0.0002	P	15.8	5.5
3	☐	5.000	4.648	2183.55	0.0005	P	14.5	-7.0
4	☐	10.000	10.087	4647.59	0.0010	P	0.5	0.9
5	☐	100.000	99.400	44665.07	0.0101	P	5.4	-0.6
6	☐	200.000	200.303	88371.65	0.0203	P	1.9	0.2

y = 1.0111E-004 * x + 3.5984E-006
R = 1.0000
DL = 0.09772 ppb
BEC = 0.03559 ppb

Weight: <None>
Min Conc: <None>

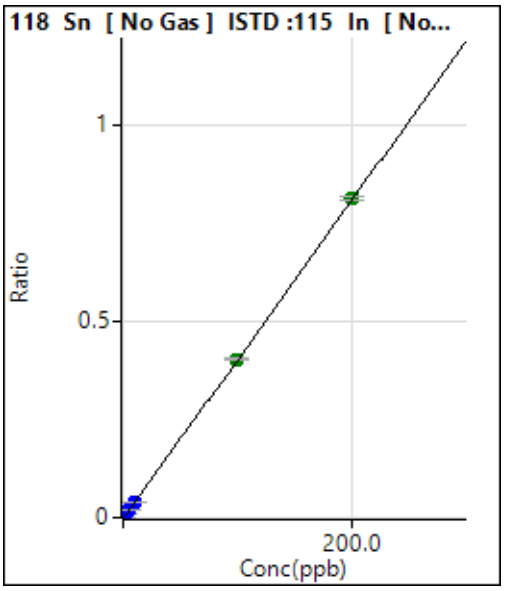


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	564.6	
2	☐	2.000	1.956	11750.03	0.0026	P	1.5	-2.2
3	☐	5.000	4.841	29111.02	0.0063	P	1.9	-3.2
4	☐	10.000	9.846	58279.74	0.0128	P	2.5	-1.5
5	☐	100.000	97.902	567131.85	0.1276	P	1.4	-2.1
6	☐	200.000	201.061	1143495.16	0.2621	A	2.0	0.5

y = 0.0013 * x + 4.5202E-007
R = 0.9999
DL = 0.005874 ppb
BEC = 0.0003468 ppb

Weight: <None>
Min Conc: <None>

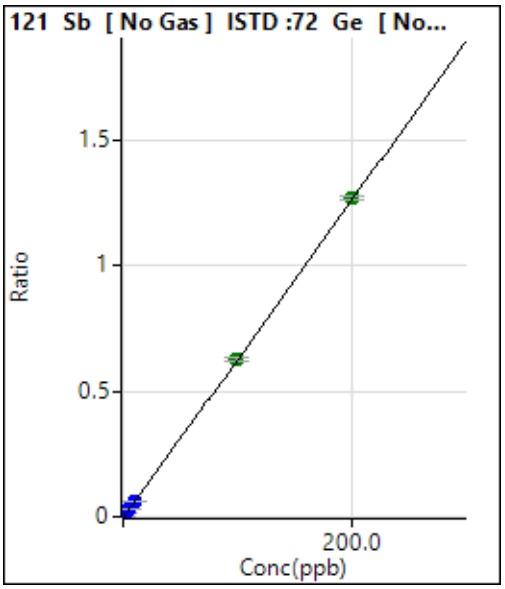
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.47	0.0011	P	2.6	
2	☐	2.000	1.991	42311.25	0.0092	P	2.2	-0.5
3	☐	5.000	4.859	95908.51	0.0208	P	2.1	-2.8
4	☐	10.000	9.797	185213.59	0.0408	P	2.2	-2.0
5	☐	100.000	99.305	1791470.91	0.4031	A	1.8	-0.7
6	☐	200.000	200.361	3543706.62	0.8123	A	1.5	0.2

y = 0.0040 * x + 0.0011
R = 1.0000
DL = 0.02168 ppb
BEC = 0.2781 ppb

Weight: <None>
Min Conc: <None>

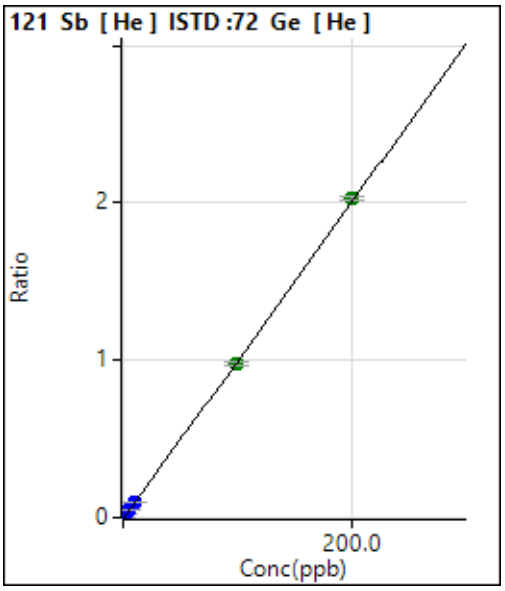


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	960.05	0.0002	P	3.8	
2	☐	2.000	1.953	52260.04	0.0126	P	1.5	-2.4
3	☐	5.000	4.934	129491.66	0.0314	P	2.0	-1.3
4	☐	10.000	9.876	256522.06	0.0627	P	2.4	-1.2
5	☐	100.000	98.962	2510060.53	0.6259	A	1.8	-1.0
6	☐	200.000	200.527	5056640.03	1.2681	A	1.4	0.3

y = 0.0063 * x + 2.2893E-004
R = 1.0000
DL = 0.004131 ppb
BEC = 0.03621 ppb

Weight: <None>
Min Conc: <None>

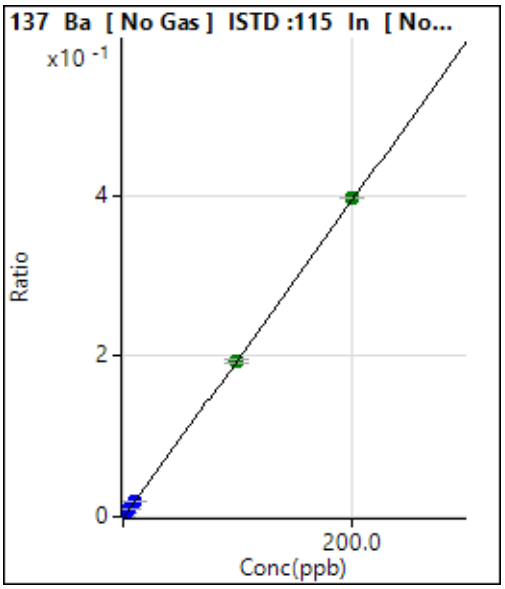
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0003	P	13.2	
2	☐	2.000	1.896	24252.50	0.0194	P	0.8	-5.2
3	☐	5.000	4.699	59564.31	0.0477	P	2.9	-6.0
4	☐	10.000	9.817	122875.85	0.0992	P	3.4	-1.8
5	☐	100.000	96.991	1186069.07	0.9770	A	1.5	-3.0
6	☐	200.000	201.522	2451598.82	2.0296	A	1.5	0.8

y = 0.0101 * x + 3.4607E-004
R = 0.9998
DL = 0.0136 ppb
BEC = 0.03437 ppb

Weight: <None>
Min Conc: <None>

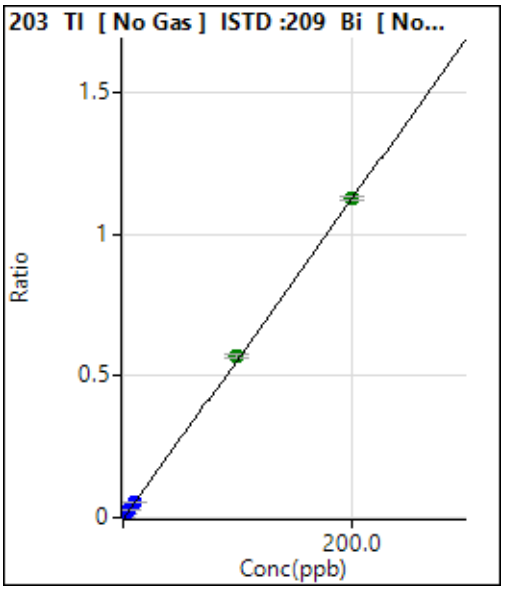


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.71	0.0002	P	15.7	
2	☐	2.000	2.080	19695.16	0.0043	P	2.9	4.0
3	☐	5.000	4.899	45395.57	0.0098	P	3.0	-2.0
4	☐	10.000	9.819	88836.22	0.0196	P	1.5	-1.8
5	☐	100.000	98.116	862010.17	0.1940	A	2.8	-1.9
6	☐	200.000	200.953	1732609.76	0.3972	A	0.4	0.5

y = 0.0020 * x + 1.6551E-004
R = 0.9999
DL = 0.03945 ppb
BEC = 0.08378 ppb

Weight: <None>
Min Conc: <None>

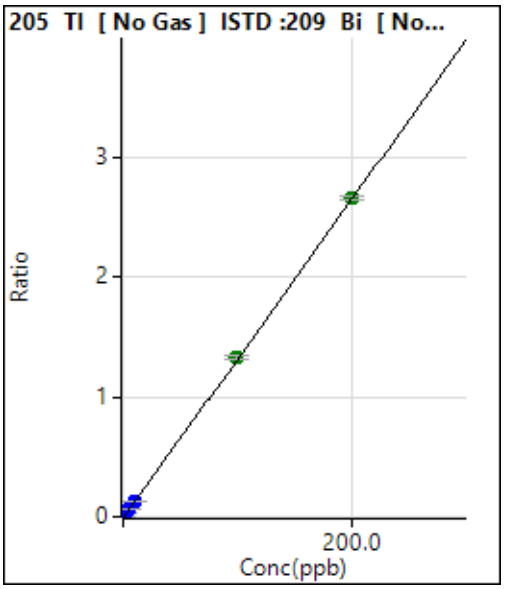
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	18.8	
2	☐	2.000	1.969	43361.84	0.0112	P	2.9	-1.6
3	☐	5.000	4.960	109414.55	0.0281	P	1.6	-0.8
4	☐	10.000	9.775	212416.36	0.0552	P	0.8	-2.3
5	☐	100.000	100.789	2138360.59	0.5686	A	1.8	0.8
6	☐	200.000	199.618	4236776.60	1.1261	A	1.3	-0.2

y = 0.0056 * x + 7.6943E-005
R = 1.0000
DL = 0.007703 ppb
BEC = 0.01364 ppb

Weight: <None>
Min Conc: <None>

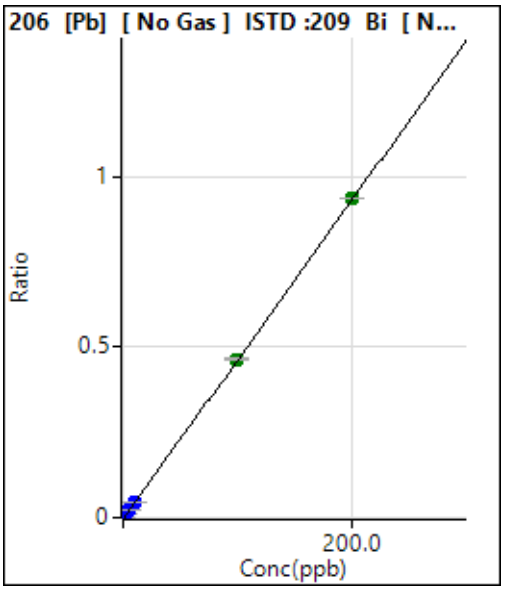


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	13.2	
2	☐	2.000	1.961	102032.62	0.0263	P	2.9	-2.0
3	☐	5.000	4.883	254579.84	0.0653	P	2.6	-2.3
4	☐	10.000	9.735	500079.34	0.1300	P	2.0	-2.7
5	☐	100.000	100.154	5023606.18	1.3358	A	1.7	0.2
6	☐	200.000	199.940	10032632.35	2.6666	A	1.3	0.0

y = 0.0133 * x + 1.6397E-004
R = 1.0000
DL = 0.004868 ppb
BEC = 0.01229 ppb

Weight: <None>
Min Conc: <None>

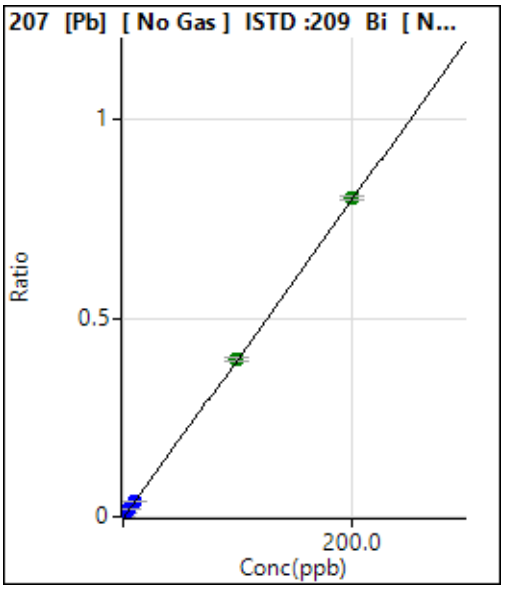
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0002	P	22.1	
2	☐	2.000	2.006	37028.24	0.0095	P	2.0	0.3
3	☐	5.000	4.839	88896.72	0.0228	P	2.7	-3.2
4	☐	10.000	9.947	179565.38	0.0467	P	2.6	-0.5
5	☐	100.000	99.321	1746801.59	0.4645	A	1.8	-0.7
6	☐	200.000	200.346	3524680.26	0.9368	A	0.3	0.2

y = 0.0047 * x + 1.7110E-004
R = 1.0000
DL = 0.02421 ppb
BEC = 0.0366 ppb

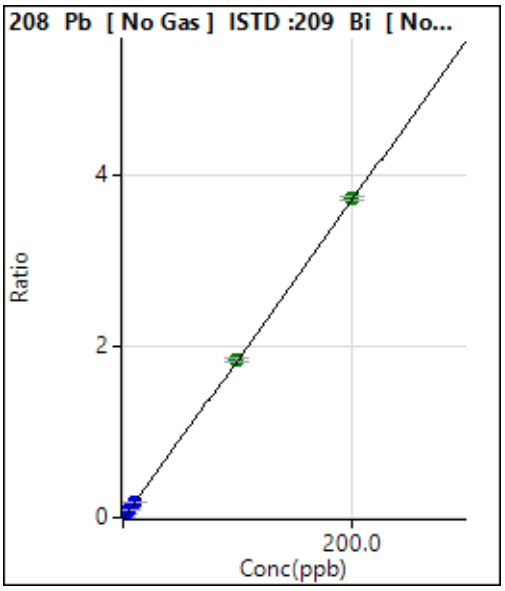
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	21.4	
2	☐	2.000	1.956	31018.76	0.0080	P	3.1	-2.2
3	☐	5.000	4.865	76643.76	0.0197	P	2.1	-2.7
4	☐	10.000	9.817	151985.68	0.0395	P	2.3	-1.8
5	☐	100.000	99.075	1493789.25	0.3972	A	2.1	-0.9
6	☐	200.000	200.475	3023524.75	0.8036	A	1.4	0.2

y = 0.0040 * x + 1.6049E-004
R = 1.0000
DL = 0.02568 ppb
BEC = 0.04005 ppb

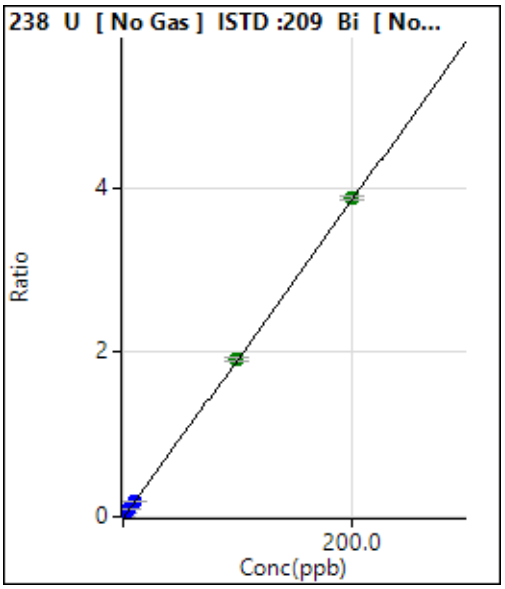
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2676.84	0.0007	P	2.4	
2	☐	2.000	1.978	145562.64	0.0375	P	2.3	-1.1
3	☐	5.000	4.869	356419.41	0.0914	P	2.5	-2.6
4	☐	10.000	9.882	710873.52	0.1848	P	2.4	-1.2
5	☐	100.000	99.153	6948438.60	1.8477	A	1.7	-0.8
6	☐	200.000	200.433	14050124.48	3.7343	A	1.4	0.2

y = 0.0186 * x + 6.8618E-004
R = 1.0000
DL = 0.002623 ppb
BEC = 0.03684 ppb

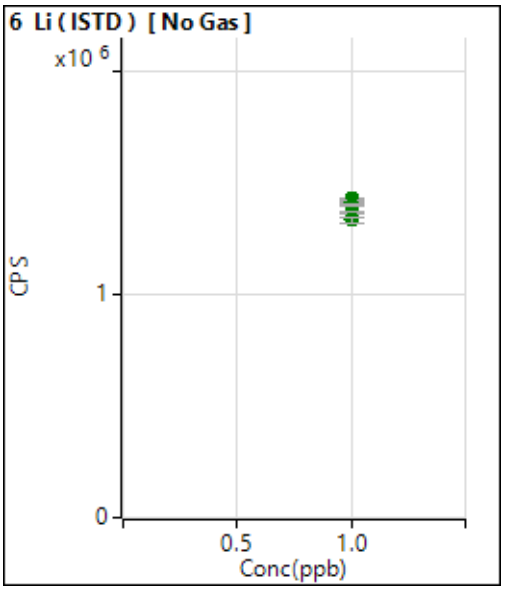
Weight: <None>
Min Conc: <None>



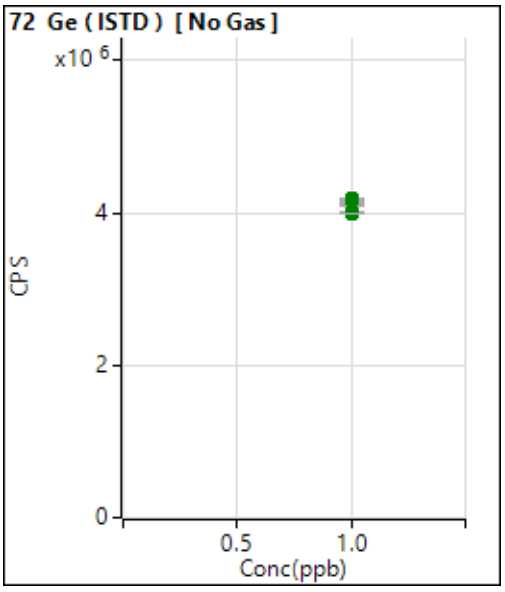
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.38	0.0002	P	7.6	
2	☐	2.000	1.869	140917.91	0.0363	P	2.8	-6.5
3	☐	5.000	4.667	352601.88	0.0904	P	1.2	-6.7
4	☐	10.000	9.470	705100.79	0.1833	P	2.2	-5.3
5	☐	100.000	98.856	7186615.73	1.9110	A	1.8	-1.1
6	☐	200.000	200.608	14589493.11	3.8778	A	0.9	0.3

y = 0.0193 * x + 2.0587E-004
R = 1.0000
DL = 0.002414 ppb
BEC = 0.01065 ppb

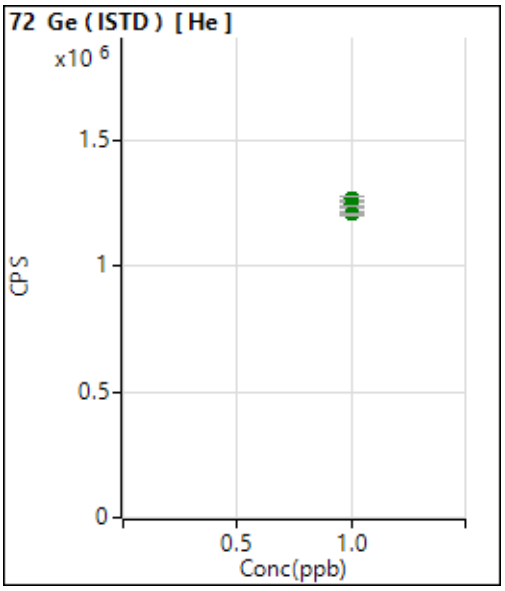
Weight: <None>
Min Conc: <None>



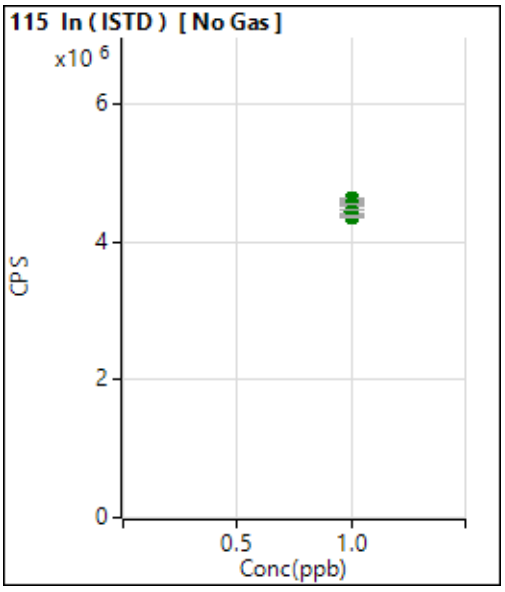
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1429276.11		A	0.6	
2	☐	1.000		1417965.71		A	1.2	
3	☐	1.000		1413014.56		A	0.9	
4	☐	1.000		1396686.32		A	0.5	
5	☐	1.000		1364042.84		A	0.2	
6	☐	1.000		1331983.50		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4193657.54		A	0.2	
2	☐	1.000		4156025.36		A	0.5	
3	☐	1.000		4121121.09		A	0.4	
4	☐	1.000		4093381.09		A	0.2	
5	☐	1.000		4010285.77		A	0.4	
6	☐	1.000		3987672.86		A	0.2	

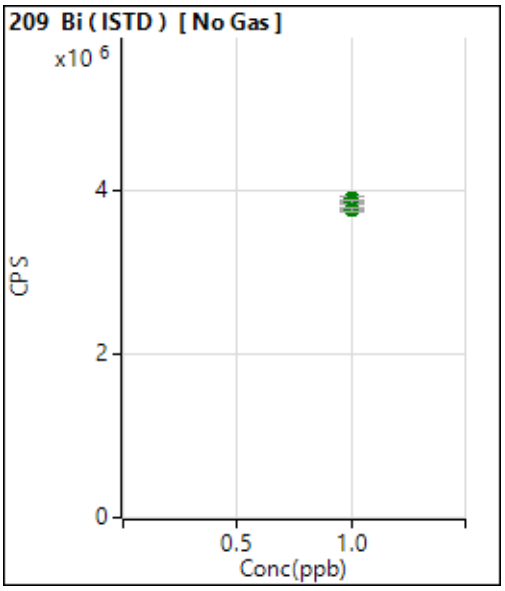


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1272004.36		A	0.8	
2	☐	1.000		1247560.27		A	0.9	
3	☐	1.000		1250040.34		A	1.1	
4	☐	1.000		1238824.64		A	0.6	
5	☐	1.000		1213889.20		A	0.7	
6	☐	1.000		1207897.95		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4632313.39		A	0.3	
2	☐	1.000		4606792.99		A	0.8	
3	☐	1.000		4612400.23		A	0.5	
4	☐	1.000		4540878.92		A	0.4	
5	☐	1.000		4444187.88		A	1.0	
6	☐	1.000		4362432.83		A	0.7	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3900842.23		A	0.8	
2	☐	1.000		3877954.01		A	0.3	
3	☐	1.000		3899647.44		A	1.8	
4	☐	1.000		3846870.04		A	1.2	
5	☐	1.000		3760775.36		A	0.4	
6	☐	1.000		3762470.67		A	1.0	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:01:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.895	1.895	1.67	118657	0.00	2	
Be	9	1	No Gas	2.067	2.067	0.62	11043	0.02	2	
V	51	2	He	1.908	1.908	2.90	23115	0.01	2	
Cr	52	2	He	2.065	2.065	3.21	34814	0.01	2	
Fe	56	2	He	197.513	197.513	1.95	2190505	0.01	200	
Se	78	2	He	1.949	1.949	16.47	511	0.38	2	
As	75	2	He	1.960	1.960	1.81	4290	0.05	2	
Ca	44	2	He	209.224	209.224	1.91	16580	1.26	200	
Na	23	2	He	179.091	179.091	2.62	584633	0.03	200	
Mg	24	2	He	199.018	199.018	1.20	206930	0.10	200	
K	39	2	He	193.888	193.888	2.22	377504	0.05	200	
Mn	55	2	He	1.909	1.909	4.45	17438	0.01	2	
Co	59	2	He	2.021	2.021	2.59	36813	0.01	2	
Ni	60	2	He	1.939	1.939	3.64	9770	0.02	2	
Cu	63	2	He	2.006	2.006	1.34	27341	0.01	2	
Zn	66	2	He	1.763	1.763	1.17	6662	0.03	2	
Al	27	2	He	4.438	4.438	8.94	8399	0.05	2	NewName Main CR1 Failed
B	11	1	No Gas	11.409	11.409	0.51	59725	0.02	10	
Al	27	1	No Gas	5.058	5.058	23.70	324183	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	9.790	9.790	5.94	847163	0.00	10	
Ag	107	1	No Gas	2.053	2.053	2.91	63993	0.00	2	
Cd	111	1	No Gas	1.936	1.936	2.57	11357	0.02	2	
Sr	88	1	No Gas	1.971	1.971	1.43	119401	0.00	2	
Mo	95	1	No Gas	1.993	1.993	0.58	22813	0.01	2	
Sn	118	1	No Gas	2.019	2.019	2.06	41840	0.00	2	
Sb	121	1	No Gas	2.050	2.050	3.16	54201	0.00	2	
Ba	137	1	No Gas	2.094	2.094	2.36	19358	0.01	2	
Tl	205	1	No Gas	1.962	1.962	2.67	101609	0.00	2	
Tl	203	1	No Gas	1.940	1.940	2.93	42515	0.00	2	
Pb	208	1	No Gas	2.000	2.000	1.25	146393	0.00	2	
U	238	1	No Gas	1.880	1.880	2.45	140987	0.00	2	
Ca	43	2	He	229.636	229.636	14.18	960	23.92	200	
Sb	121	2	He	2.031	2.031	2.42	25842	0.01	2	
Ti	47	2	He	1.981	1.981	11.96	770	0.26	200	
Cu	63	1	No Gas	2.009	2.009	1.76	52096	0.00	2	
Se	82	1	No Gas	2.138	2.138	15.02	1480	0.14	2	
Zr	90	1	No Gas	1.716	1.716	0.84	62934	0.00	2	
Zr	90	2	He	1.719	1.719	1.36	28170	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1419339	0.73	1429276	99.30	70	120	
Ge	72	2	He	1242761	0.21	1272004	97.70	70	120	
Ge	72	1	No Gas	4108742	0.48	4193658	97.98	70	120	
In	115	1	No Gas	4499407	0.55	4632313	97.13	70	120	
Bi	209	1	No Gas	3858031	0.91	3900842	98.90	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:03:28-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.800	4.800	3.90	177728	0.00	5	
Be	9	1	No Gas	5.092	5.092	2.41	27129	0.02	5	
V	51	2	He	4.987	4.987	2.38	54923	0.01	5	
Cr	52	2	He	5.148	5.148	2.82	70512	0.01	5	
Fe	56	2	He	507.118	507.118	1.68	5621051	0.01	500	
Se	78	2	He	5.359	5.359	4.03	1077	0.50	5	
As	75	2	He	5.044	5.044	1.78	10541	0.05	5	
Ca	44	2	He	508.014	508.014	2.53	36020	1.41	500	
Na	23	2	He	486.360	486.360	1.98	1102856	0.04	500	
Mg	24	2	He	507.802	507.802	0.62	529272	0.10	500	
K	39	2	He	500.419	500.419	1.74	752314	0.07	500	
Mn	55	2	He	5.144	5.144	1.80	45632	0.01	5	
Co	59	2	He	5.170	5.170	2.81	94618	0.01	5	
Ni	60	2	He	5.217	5.217	4.82	25304	0.02	5	
Cu	63	2	He	5.105	5.105	2.89	67171	0.01	5	
Zn	66	2	He	4.732	4.732	1.82	14054	0.03	5	
Al	27	2	He	6.977	6.977	12.22	10201	0.07	5	NewName2 Main CR1 Failed
B	11	1	No Gas	24.948	24.948	2.03	105057	0.02	25	
Al	27	1	No Gas	7.546	7.546	4.45	385917	0.00	5	NewName2 Main CR1 Failed
Si	28	1	No Gas	25.349	25.349	3.40	1003352	0.00	25	
Ag	107	1	No Gas	5.057	5.057	2.67	157511	0.00	5	
Cd	111	1	No Gas	5.011	5.011	2.29	29797	0.02	5	
Sr	88	1	No Gas	4.956	4.956	2.40	290736	0.00	5	
Mo	95	1	No Gas	4.914	4.914	1.79	56703	0.01	5	
Sn	118	1	No Gas	4.925	4.925	1.22	96087	0.01	5	
Sb	121	1	No Gas	5.058	5.058	4.18	131870	0.00	5	
Ba	137	1	No Gas	4.988	4.988	2.90	45706	0.01	5	
Tl	205	1	No Gas	4.882	4.882	2.90	255187	0.00	5	
Tl	203	1	No Gas	4.920	4.920	3.81	108769	0.00	5	
Pb	208	1	No Gas	4.970	4.970	1.37	364610	0.00	5	
U	238	1	No Gas	4.715	4.715	2.32	357038	0.00	5	
Ca	43	2	He	522.361	522.361	4.00	2074	25.19	500	
Sb	121	2	He	5.006	5.006	0.15	63519	0.01	5	
Ti	47	2	He	5.081	5.081	13.26	1964	0.26	5	
Cu	63	1	No Gas	5.264	5.264	3.64	130086	0.00	5	
Se	82	1	No Gas	5.565	5.565	9.85	2734	0.20	5	
Zr	90	1	No Gas	4.416	4.416	0.53	161788	0.00	5	
Zr	90	2	He	4.491	4.491	1.31	71473	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1418481	0.41	1429276	99.24	70	120	
Ge	72	2	He	1251410	0.56	1272004	98.38	70	120	
Ge	72	1	No Gas	4095475	0.95	4193658	97.66	70	120	
In	115	1	No Gas	4561365	0.28	4632313	98.47	70	120	
Bi	209	1	No Gas	3909055	1.98	3900842	100.21	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:08:16-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.089	-37.4	78478	1.5	0.5	
Be	9	1	No Gas	0.000	8289.8	45	48.4	0.5	
V	51	2	He	-0.030	-17.0	3366	1.3	2.5	
Cr	52	2	He	0.189	5.9	13490	1.9	2.5	
Fe	56	2	He	2.455	0.5	54143	1.1	100	
Se	78	2	He	-0.010	-1644.2	191	12.6	1	
As	75	2	He	0.014	123.1	394	9.9	2.5	
Ca	44	2	He	-8.570	-43.2	2610	8.0	100	
Na	23	2	He	-9.606	-17.4	273328	1.0	100	
Mg	24	2	He	0.830	16.3	2410	6.0	100	
K	39	2	He	1.743	45.8	147047	1.7	100	
Mn	55	2	He	0.122	12.2	2054	7.5	2.5	
Co	59	2	He	0.002	61.7	173	12.0	2.5	
Ni	60	2	He	0.090	32.2	1120	13.2	2.5	
Cu	63	2	He	0.050	2.6	2520	1.4	1	
Zn	66	2	He	0.402	19.5	3347	6.8	2.5	
Al	27	2	He	-1.188	-12.2	4608	1.4	5	
B	11	1	No Gas	0.435	28.4	23000	1.7	0.5	
Al	27	1	No Gas	-1.574	-4.8	156702	0.4	5	
Si	28	1	No Gas	14.742	5.8	903400	0.5	10	ICB Main CR1 Failed
Ag	107	1	No Gas	-0.009	-87.1	1307	16.7	2.5	
Cd	111	1	No Gas	0.003	100.0	20	88.8	1	
Sr	88	1	No Gas	-0.050	-1.8	6172	1.3	2.5	
Mo	95	1	No Gas	0.005	158.0	283	30.8	2.5	
Sn	118	1	No Gas	0.149	14.6	7896	5.7	5	
Sb	121	1	No Gas	0.013	45.8	1290	12.0	2.5	
Ba	137	1	No Gas	0.207	16.0	2620	10.5	2.5	
Tl	205	1	No Gas	-0.004	-24.1	440	11.8	1	
Tl	203	1	No Gas	-0.003	-117.4	223	38.1	1	
Pb	208	1	No Gas	0.009	55.3	3337	12.1	2.5	
U	238	1	No Gas	-0.002	-54.1	657	11.4	2.5	
Ca	43	2	He	-5.727	-166.1	77	45.8	100	
Sb	121	2	He	0.017	45.3	653	15.6	2.5	
Ti	47	2	He	0.001	4244.5	17	91.7	2.5	
Se	82	1	No Gas	-0.007	-4357.5	693	16.2	1	
Zr	90	1	No Gas	0.047	20.0	3264	10.3	2.5	
Zr	90	2	He	0.042	15.1	2287	3.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1423712	0.92	1429276	99.61	70	120	
Ge	72	2	He	1253200	1.20	1272004	98.52	70	120	
Ge	72	1	No Gas	4134034	1.24	4193658	98.58	70	120	
In	115	1	No Gas	4568974	0.84	4632313	98.63	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3883417	1.13	3900842	99.55	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	024ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:13:11-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.480	12.4	85069	1.8	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	1.7	173	1.7	0	ICSA Main CR1 Failed
V	51	2	He	0.251	6.3	6062	3.2	0	ICSA Main CR1 Failed
Cr	52	2	He	0.890	10.2	20889	4.3	0	ICSA Main CR1 Failed
Fe	56	2	He	97684.079	2.2	1045256864	1.8	0	
Se	78	2	He	0.230	87.7	224	15.0	0	ICSA Main CR1 Failed
As	75	2	He	0.406	11.6	1149	8.0	0	ICSA Main CR1 Failed
Ca	44	2	He	97400.813	2.7	6113865	2.4	0	
Na	23	2	He	98886.521	1.7	160792141	1.3	0	
Mg	24	2	He	98016.756	3.1	98804612	2.6	0	
K	39	2	He	99127.464	2.3	116893548	2.1	0	
Mn	55	2	He	1.612	4.7	14535	3.8	0	ICSA Main CR1 Failed
Co	59	2	He	0.958	3.3	17121	2.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.012	3.7	5301	2.6	0	ICSA Main CR1 Failed
Cu	63	2	He	0.740	0.5	11005	1.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.861	9.1	9140	6.2	0	ICSA Main CR1 Failed
Al	27	2	He	96850.558	2.6	64397232	2.4	0	
B	11	1	No Gas	1.478	14.4	25025	2.5	0	
Al	27	1	No Gas	93850.167	3.6	2270616446	3.0	0	
Si	28	1	No Gas	57.871	1.7	1277463	1.3	0	
Ag	107	1	No Gas	0.064	9.4	3234	5.6	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.747	2.3	4066	2.7	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.776	3.1	48577	1.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2027.583	3.2	21319685	2.3	0	
Sn	118	1	No Gas	0.289	6.7	9584	2.5	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.124	4.8	3971	3.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.502	10.6	4828	8.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.002	192.2	677	29.8	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.000	-1232.0	263	24.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.909	0.5	61483	0.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.005	32.1	1070	10.3	0	ICSA Main CR1 Failed
Ca	43	2	He	94430.858	3.2	346432	2.8	0	
Sb	121	2	He	0.104	9.0	1690	6.7	0	ICSA Main CR1 Failed
Ti	47	2	He	2006.321	2.3	745837	2.0	0	
Se	82	1	No Gas	0.265	28.2	753	4.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1344059	0.47	1429276	94.04	70	120	
Ge	72	2	He	1213939	0.68	1272004	95.44	70	120	
Ge	72	1	No Gas	3916870	0.66	4193658	93.40	70	120	
In	115	1	No Gas	4173916	1.09	4632313	90.10	70	120	
Bi	209	1	No Gas	3489017	0.27	3900842	89.44	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	025ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T11:15:46-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.133	2.070	2022671	1.84	100	95.1	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	92.834	2.604	495198	2.33	100	92.8	80	120	
V	51	2	He	101.875	2.674	1033892	2.51	100	101.9	80	120	
Cr	52	2	He	99.719	2.400	1139947	2.26	100	99.7	80	120	
Fe	56	2	He	107842.636	2.207	1170794436	2.08	100	107842.6	80	120	
Se	78	2	He	100.049	2.940	16430	2.79	100	100.0	80	120	
As	75	2	He	100.979	2.381	200867	2.25	100	101.0	80	120	
Ca	44	2	He	108210.421	2.336	6891111	2.16	100	108210.4	80	120	
Na	23	2	He	109623.357	1.516	180817577	1.33	100	109623.4	80	120	
Mg	24	2	He	108760.993	2.358	111238328	2.20	100	108761.0	80	120	
K	39	2	He	109746.647	1.717	131285581	1.53	100	109746.6	80	120	
Mn	55	2	He	101.621	2.031	868851	1.91	100	101.6	80	120	
Co	59	2	He	98.874	2.042	1778536	1.86	100	98.9	80	120	
Ni	60	2	He	95.466	2.388	443970	2.20	100	95.5	80	120	
Cu	63	2	He	96.417	2.093	1215735	1.90	100	96.4	80	120	
Zn	66	2	He	99.764	2.565	245199	2.36	100	99.8	80	120	
Al	27	2	He	96922.770	2.046	65384867	1.89	100	96922.8	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	472.271	1.406	1608606	1.00	100	472.3	80	120	
Al	27	1	No Gas	93412.022	2.785	2282884179	1.33	100	93412.0	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	551.729	2.717	6164279	0.97	100	551.7	80	120	
Ag	107	1	No Gas	98.463	3.258	2829036	1.80	100	98.5	80	120	
Cd	111	1	No Gas	98.013	3.668	542749	2.37	100	98.0	80	120	
Sr	88	1	No Gas	103.057	2.790	5464147	1.48	100	103.1	80	120	
Mo	95	1	No Gas	2104.159	3.214	22522010	1.75	100	2104.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	102.323	2.546	1764593	1.08	100	102.3	80	120	
Sb	121	1	No Gas	101.168	2.518	2531368	1.08	100	101.2	80	120	
Ba	137	1	No Gas	102.660	2.945	862287	1.74	100	102.7	80	120	
Tl	205	1	No Gas	92.774	2.861	4328624	2.13	100	92.8	80	120	
Tl	203	1	No Gas	93.347	2.115	1842290	1.28	100	93.3	80	120	
Pb	208	1	No Gas	103.223	2.471	6728891	1.95	100	103.2	80	120	
U	238	1	No Gas	103.605	2.519	7006618	2.21	100	103.6	80	120	
Ca	43	2	He	103890.379	3.143	386694	2.97	100	103890.4	80	120	
Sb	121	2	He	99.929	1.716	1239708	1.61	100	99.9	80	120	
Ti	47	2	He	2130.112	2.424	803398	2.24	100	2130.1	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.946	2.591	2253154	1.23	100	96.9	80	120	
Se	82	1	No Gas	99.700	4.124	36048	2.98	100	99.7	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1422546	0.41	1429276	99.53	70	120	
Ge	72	2	He	1231589	0.19	1272004	96.82	70	120	
Ge	72	1	No Gas	3957019	1.48	4193658	94.36	70	120	
In	115	1	No Gas	4249327	1.47	4632313	91.73	70	120	
Bi	209	1	No Gas	3498660	1.05	3900842	89.69	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	098CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T14:58:14-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	72289	0.00
Be	9	1	No Gas	15	222.22
V	51	2	He	4533	0.04
Cr	52	2	He	11555	0.00
Fe	56	2	He	24682	0.01
Se	78	2	He	207	4.32
As	75	2	He	394	2.36
Ca	44	2	He	2574	0.15
Na	23	2	He	286629	0.00
Mg	24	2	He	1247	0.80
K	39	2	He	145309	0.00
Mn	55	2	He	917	0.88
Co	59	2	He	100	10.00
Ni	60	2	He	853	0.76
Cu	63	2	He	2307	0.26
Zn	66	2	He	1990	0.31
Al	27	2	He	5865	0.02
B	11	1	No Gas	14663	0.01
Al	27	1	No Gas	193314	0.00
Si	28	1	No Gas	544084	0.00
Ag	107	1	No Gas	603	2.71
Sr	88	1	No Gas	7812	0.01
Mo	95	1	No Gas	187	3.31
Sn	118	1	No Gas	4668	0.15
Sb	121	1	No Gas	467	1.48
Ba	137	1	No Gas	897	0.52
Tl	205	1	No Gas	243	7.61
Tl	203	1	No Gas	113	31.46
Pb	208	1	No Gas	1947	0.47
U	238	1	No Gas	547	2.28
Ca	43	2	He	103	37.85
Sb	121	2	He	253	9.00
Ti	47	2	He	13	649.52
Cu	63	1	No Gas	4254	0.10

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	1303313	0.43

Calibration Blank Report

Ge	72	2	He	1374323	0.22
Ge	72	1	No Gas	4359458	0.33
In	115	1	No Gas	5185395	1.30
Bi	209	1	No Gas	4642203	0.54

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	099CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:00:44-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	9929	0.03
V	51	2	He	27813	0.00
Cr	52	2	He	37709	0.01
Fe	56	2	He	2490584	0.00
Se	78	2	He	560	0.71
As	75	2	He	4762	0.07
Ca	44	2	He	17091	0.01
Na	23	2	He	660366	0.00
Mg	24	2	He	240598	0.00
K	39	2	He	409560	0.00
Mn	55	2	He	20662	0.01
Co	59	2	He	42884	0.00
Ni	60	2	He	11515	0.02
Cu	63	2	He	31901	0.01
Zn	66	2	He	8016	0.04
Al	27	2	He	7599	0.05
B	11	1	No Gas	46529	0.00
Al	27	1	No Gas	266806	0.00
Si	28	1	No Gas	647336	0.00
Ag	107	1	No Gas	71176	0.00
Cd	111	1	No Gas	13929	0.07
Sr	88	1	No Gas	133138	0.00
Mo	95	1	No Gas	25328	0.02
Sn	118	1	No Gas	46880	0.01
Sb	121	1	No Gas	60063	0.01
Ba	137	1	No Gas	22453	0.01
Tl	205	1	No Gas	124292	0.00
Tl	203	1	No Gas	52668	0.01
Pb	208	1	No Gas	177135	0.00
U	238	1	No Gas	170412	0.00
Ca	43	2	He	970	2.05
Sb	121	2	He	27609	0.01
Cu	63	1	No Gas	55777	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1293096	1.59	1303313	99.22	70	120	
Ge	72	2	He	1373553	0.37	1374323	99.94	70	120	
Ge	72	1	No Gas	4356547	0.31	4359458	99.93	70	120	

Calibration Standard Report

In	115	1	No Gas	5125227	0.68	5185395	98.84	70	120	
Bi	209	1	No Gas	4601018	0.33	4642203	99.11	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	100CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:03:15-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	25079	0.00
V	51	2	He	59937	0.00
Cr	52	2	He	76343	0.00
Fe	56	2	He	6051916	0.00
Se	78	2	He	1037	0.36
As	75	2	He	10765	0.03
Ca	44	2	He	36802	0.00
Na	23	2	He	1206386	0.00
Mg	24	2	He	575627	0.00
K	39	2	He	783266	0.00
Mn	55	2	He	48435	0.01
Co	59	2	He	103074	0.00
Ni	60	2	He	27585	0.01
Cu	63	2	He	74696	0.00
Zn	66	2	He	14885	0.02
Al	27	2	He	10387	0.03
B	11	1	No Gas	94042	0.00
Al	27	1	No Gas	346437	0.00
Si	28	1	No Gas	788342	0.00
Ag	107	1	No Gas	176036	0.00
Cd	111	1	No Gas	33118	0.00
Sr	88	1	No Gas	316180	0.00
Mo	95	1	No Gas	62171	0.00
Sn	118	1	No Gas	108710	0.00
Sb	121	1	No Gas	148399	0.00
Ba	137	1	No Gas	53499	0.00
Tl	205	1	No Gas	310001	0.00
Tl	203	1	No Gas	131455	0.00
Pb	208	1	No Gas	441414	0.00
U	238	1	No Gas	426582	0.00
Ca	43	2	He	2180	0.36
Sb	121	2	He	67864	0.00
Cu	63	1	No Gas	131091	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1283534	0.25	1303313	98.48	70	120	
Ge	72	2	He	1355522	1.24	1374323	98.63	70	120	
Ge	72	1	No Gas	4362440	0.82	4359458	100.07	70	120	

Calibration Standard Report

In	115	1	No Gas	5072596	0.78	5185395	97.82	70	120	
Bi	209	1	No Gas	4628664	0.96	4642203	99.71	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	101CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:05:45-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	49743	0.01
V	51	2	He	119173	0.00
Cr	52	2	He	142080	0.00
Fe	56	2	He	12368342	0.00
Se	78	2	He	1983	0.15
As	75	2	He	22219	0.00
Ca	44	2	He	74780	0.00
Na	23	2	He	2190193	0.00
Mg	24	2	He	1188254	0.00
K	39	2	He	1482655	0.00
Mn	55	2	He	97559	0.00
Co	59	2	He	211716	0.00
Ni	60	2	He	55830	0.00
Cu	63	2	He	148798	0.00
Zn	66	2	He	29796	0.01
Al	27	2	He	14541	0.01
B	11	1	No Gas	174559	0.00
Al	27	1	No Gas	491297	0.00
Si	28	1	No Gas	1040450	0.00
Ag	107	1	No Gas	351689	0.00
Cd	111	1	No Gas	67082	0.00
Sr	88	1	No Gas	627105	0.00
Mo	95	1	No Gas	125030	0.00
Sn	118	1	No Gas	219192	0.00
Sb	121	1	No Gas	302258	0.00
Ba	137	1	No Gas	104683	0.00
Tl	205	1	No Gas	624128	0.00
Tl	203	1	No Gas	263846	0.00
Pb	208	1	No Gas	891156	0.00
U	238	1	No Gas	868652	0.00
Ca	43	2	He	4264	0.12
Sb	121	2	He	137943	0.00
Cu	63	1	No Gas	259902	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1275635	0.12	1303313	97.88	70	120	
Ge	72	2	He	1352999	0.45	1374323	98.45	70	120	
Ge	72	1	No Gas	4322697	0.93	4359458	99.16	70	120	

Calibration Standard Report

In	115	1	No Gas	5131138	1.14	5185395	98.95	70	120	
Bi	209	1	No Gas	4636494	0.65	4642203	99.88	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	102CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:08:14-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	487427	0.00
V	51	2	He	1122489	0.00
Cr	52	2	He	1285243	0.00
Fe	56	2	He	121048588	0.00
Se	78	2	He	17279	0.01
As	75	2	He	210665	0.00
Ca	44	2	He	697328	0.00
Na	23	2	He	19007518	0.00
Mg	24	2	He	11599054	0.00
K	39	2	He	13151540	0.00
Mn	55	2	He	943695	0.00
Co	59	2	He	2062013	0.00
Ni	60	2	He	533731	0.00
Cu	63	2	He	1442890	0.00
Zn	66	2	He	271884	0.00
Al	27	2	He	78817	0.00
B	11	1	No Gas	1574453	0.00
Al	27	1	No Gas	2637159	0.00
Si	28	1	No Gas	5413187	0.00
Ag	107	1	No Gas	3368376	0.00
Cd	111	1	No Gas	650561	0.00
Sr	88	1	No Gas	6074095	0.00
Mo	95	1	No Gas	1229887	0.00
Sn	118	1	No Gas	2091126	0.00
Sb	121	1	No Gas	2926320	0.00
Ba	137	1	No Gas	1013633	0.00
Tl	205	1	No Gas	6140256	0.00
Tl	203	1	No Gas	2587898	0.00
Pb	208	1	No Gas	8588625	0.00
U	238	1	No Gas	8699904	0.00
Ca	43	2	He	41178	0.00
Sb	121	2	He	1358294	0.00
Cu	63	1	No Gas	2451581	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1229032	0.24	1303313	94.30	70	120	
Ge	72	2	He	1343954	1.28	1374323	97.79	70	120	
Ge	72	1	No Gas	4288392	0.85	4359458	98.37	70	120	

Calibration Standard Report

In	115	1	No Gas	5041006	0.23	5185395	97.22	70	120	
Bi	209	1	No Gas	4488257	1.33	4642203	96.68	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	103CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:10:46-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	955455	0.00
V	51	2	He	2254655	0.00
Cr	52	2	He	2558409	0.00
Fe	56	2	He	241097883	0.00
Se	78	2	He	34000	0.00
As	75	2	He	421045	0.00
Ca	44	2	He	1384564	0.00
Na	23	2	He	37673615	0.00
Mg	24	2	He	22954084	0.00
K	39	2	He	25647875	0.00
Mn	55	2	He	1878014	0.00
Co	59	2	He	4058702	0.00
Ni	60	2	He	1048069	0.00
Cu	63	2	He	2850281	0.00
Zn	66	2	He	534120	0.00
Al	27	2	He	148670	0.00
B	11	1	No Gas	3099879	0.00
Al	27	1	No Gas	4997677	0.00
Si	28	1	No Gas	10082694	0.00
Ag	107	1	No Gas	6611305	0.00
Cd	111	1	No Gas	1290978	0.00
Sr	88	1	No Gas	11988085	0.00
Mo	95	1	No Gas	2458479	0.00
Sn	118	1	No Gas	4103949	0.00
Sb	121	1	No Gas	5789795	0.00
Ba	137	1	No Gas	2001738	0.00
Tl	205	1	No Gas	12105944	0.00
Tl	203	1	No Gas	5103375	0.00
Pb	208	1	No Gas	16978854	0.00
U	238	1	No Gas	17346071	0.00
Ca	43	2	He	80107	0.00
Sb	121	2	He	2756500	0.00
Cu	63	1	No Gas	4739523	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1176332	1.43	1303313	90.26	70	120	
Ge	72	2	He	1341851	1.33	1374323	97.64	70	120	
Ge	72	1	No Gas	4218913	0.63	4359458	96.78	70	120	

Calibration Standard Report

In	115	1	No Gas	4907591	1.20	5185395	94.64	70	120	
Bi	209	1	No Gas	4429482	0.64	4642203	95.42	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	105_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:16:15-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.425	2.272	1785367	2.26	100	99.4	90	110	
Be	9	1	No Gas	105.260	2.022	500753	1.64	100	105.3	90	110	
V	51	2	He	104.734	1.364	1172678	1.78	100	104.7	90	110	
Cr	52	2	He	104.839	1.743	1336800	2.10	100	104.8	90	110	
Fe	56	2	He	10066.250	0.999	120573595	1.40	10000	100.7	90	110	
Se	78	2	He	104.590	1.143	17783	1.50	100	104.6	90	110	
As	75	2	He	104.457	1.357	218460	1.55	100	104.5	90	110	
Ca	44	2	He	10030.887	2.217	691413	2.58	10000	100.3	90	110	
Na	23	2	He	10060.637	0.895	18956823	1.19	10000	100.6	90	110	
Mg	24	2	He	10106.019	0.811	11539333	1.20	10000	101.1	90	110	
K	39	2	He	10186.511	1.716	13089037	1.99	10000	101.9	90	110	
Mn	55	2	He	104.796	1.216	978191	1.57	100	104.8	90	110	
Co	59	2	He	104.906	1.217	2120334	1.38	100	104.9	90	110	
Ni	60	2	He	104.368	1.068	545255	1.38	100	104.4	90	110	
Cu	63	2	He	104.439	0.676	1482087	0.97	100	104.4	90	110	
Zn	66	2	He	103.728	0.840	276727	1.08	100	103.7	90	110	
Al	27	2	He	105.689	1.910	81046	1.80	100	105.7	90	110	
B	11	1	No Gas	485.906	1.746	1493788	1.16	500	97.2	90	110	
Al	27	1	No Gas	104.838	2.147	2723200	2.03	100	104.8	90	110	
Si	28	1	No Gas	502.515	1.920	5357677	1.65	500	100.5	90	110	
Ag	107	1	No Gas	103.027	2.053	3405905	2.00	100	103.0	90	110	
Cd	111	1	No Gas	102.978	1.457	663196	1.37	100	103.0	90	110	
Sr	88	1	No Gas	103.164	2.271	6179183	2.04	100	103.2	90	110	
Mo	95	1	No Gas	101.107	1.905	1238307	1.77	100	101.1	90	110	
Sn	118	1	No Gas	101.387	2.019	2082056	2.05	100	101.4	90	110	
Sb	121	1	No Gas	103.399	1.616	3003953	1.48	100	103.4	90	110	
Ba	137	1	No Gas	103.747	2.200	1037345	2.12	100	103.7	90	110	
Tl	205	1	No Gas	106.777	1.167	6485777	1.83	100	106.8	90	110	
Tl	203	1	No Gas	106.372	1.641	2723809	2.31	100	106.4	90	110	
Pb	208	1	No Gas	104.162	1.312	8869825	1.98	100	104.2	90	110	
U	238	1	No Gas	97.719	1.422	8485518	2.09	100	97.7	90	110	
Ca	43	2	He	10247.245	2.857	41018	3.03	10000	102.5	90	110	
Sb	121	2	He	103.052	0.470	1405867	0.66	100	103.1	90	110	
Ti	47	2	He	102.723	1.503	41880	1.73	100	102.7	90	110	
Cu	63	1	No Gas	104.690	2.861	2502815	2.55	100	104.7	90	110	
Se	82	1	No Gas	104.668	4.572	41103	4.17	100	104.7	90	110	
Zr	90	1	No Gas	77.750	2.376	2974501	2.10	100	77.7	90	110	ICV Main CR1 Failed
Zr	90	2	He	76.213	0.823	1307058	0.71	100	76.2	90	1100	ICV Main CR1 Failed

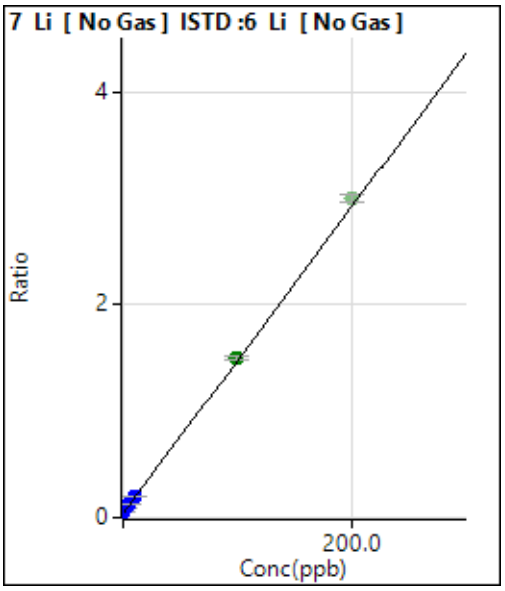
QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199906	0.57	1303313	92.07	70	120	
Ge	72	2	He	1332268	0.44	1374323	96.94	70	120	
Ge	72	1	No Gas	4237943	0.40	4359458	97.21	70	120	
In	115	1	No Gas	4914538	0.41	5185395	94.78	70	120	
Bi	209	1	No Gas	4443890	0.68	4642203	95.73	70	120	

Calibration for 105_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\052924A.b\
Analysis File: 052924A.batch.bin
DA Date-Time: 5/30/2024 7:59:29 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

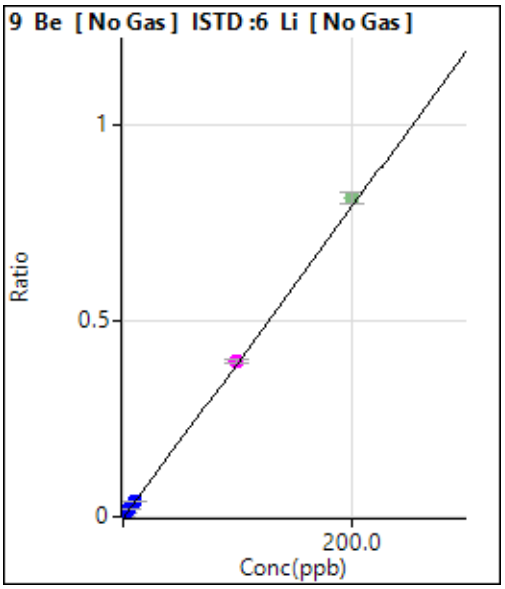
Level	Standard Data File	Sample Name	Acq. Date-Time
1	098CALB.d	CAL BLK	5/29/2024 2:58:14 PM
2	099CALS.d	2/10/200	5/29/2024 3:00:44 PM
3	100CALS.d	5/25/500	5/29/2024 3:03:15 PM
4	101CALS.d	10/50/100	5/29/2024 3:05:45 PM
5	102CALS.d	100/500/10K	5/29/2024 3:08:14 PM
6	103CALS.d	200/1000/20K	5/29/2024 3:10:46 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72289.23	0.0555	P	0.9	
2	☐	2.000	2.065	110191.24	0.0852	P	1.3	3.3
3	☐	5.000	5.039	164368.58	0.1281	P	0.9	0.8
4	☐	10.000	10.112	256607.64	0.2012	P	1.0	1.1
5	☐	100.000	99.986	1838697.73	1.4960	A	2.4	0.0
6	☑	200.000		3531287.66	3.0028	A	3.0	

y = 0.0144 * x + 0.0555
R = 1.0000
DL = 0.09876 ppb
BEC = 3.85 ppb

Weight: <None>
Min Conc: <None>

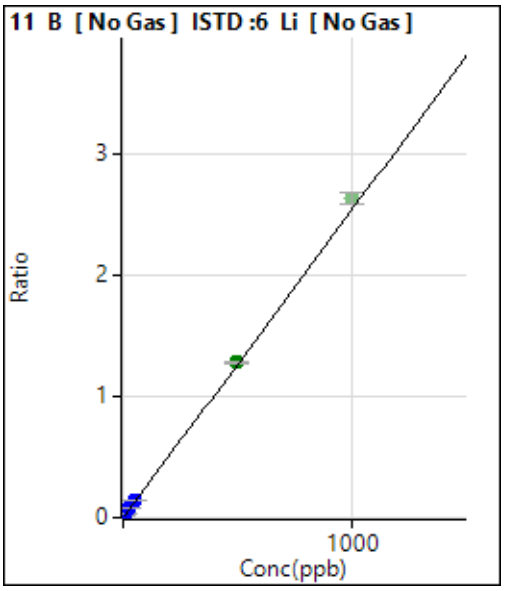


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15.00	0.0000	P	33.6	
2	☐	2.000	1.934	9928.53	0.0077	P	2.9	-3.3
3	☐	5.000	4.925	25078.79	0.0195	P	1.2	-1.5
4	☐	10.000	9.832	49743.44	0.0390	P	2.5	-1.7
5	☐	100.000	100.022	487426.80	0.3966	M	2.2	0.0
6	☑	200.000		955455.04	0.8125	A	3.5	

y = 0.0040 * x + 1.1517E-005
R = 1.0000
DL = 0.002925 ppb
BEC = 0.002905 ppb

Weight: <None>
Min Conc: <None>

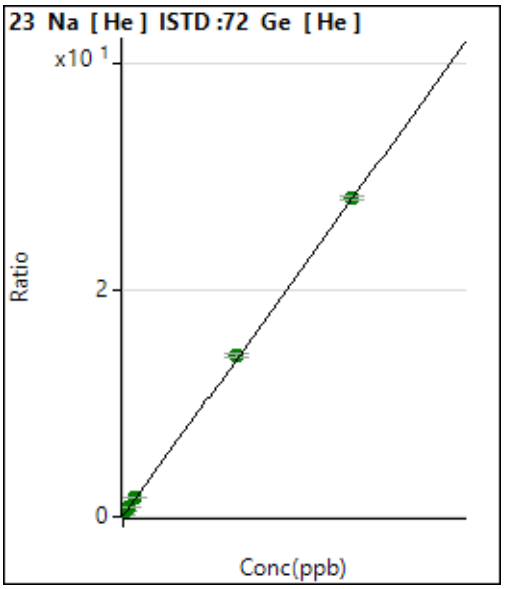
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14662.63	0.0113	P	1.4	
2	☐	10.000	9.745	46529.34	0.0360	P	3.2	-2.6
3	☐	25.000	24.426	94042.30	0.0733	P	1.2	-2.3
4	☐	50.000	49.463	174559.21	0.1368	P	1.1	-1.1
5	☐	500.000	500.087	1574453.46	1.2810	A	1.9	0.0
6	☑	1000.000		3099878.60	2.6361	A	3.5	

y = 0.0025 * x + 0.0113
R = 1.0000
DL = 0.1854 ppb
BEC = 4.431 ppb

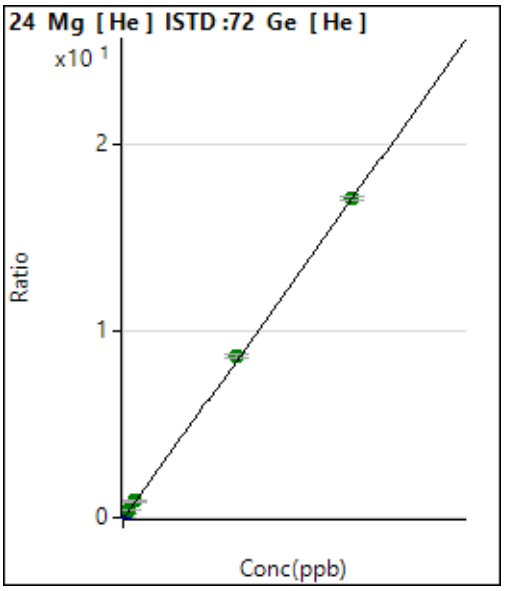
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286629.47	0.2086	P	0.5	
2	☐	200.000	195.343	660366.16	0.4808	A	1.2	-2.3
3	☐	500.000	489.104	1206386.47	0.8902	A	2.6	-2.2
4	☐	1000.000	1011.957	2190193.09	1.6188	A	1.4	1.2
5	☐	10000.00	10001.04	19007518.05	14.1457	A	2.6	0.0
6	☐	20000.00	19999.19	37673615.27	28.0789	A	1.8	0.0

y = 0.0014 * x + 0.2086
R = 1.0000
DL = 2.382 ppb
BEC = 149.7 ppb

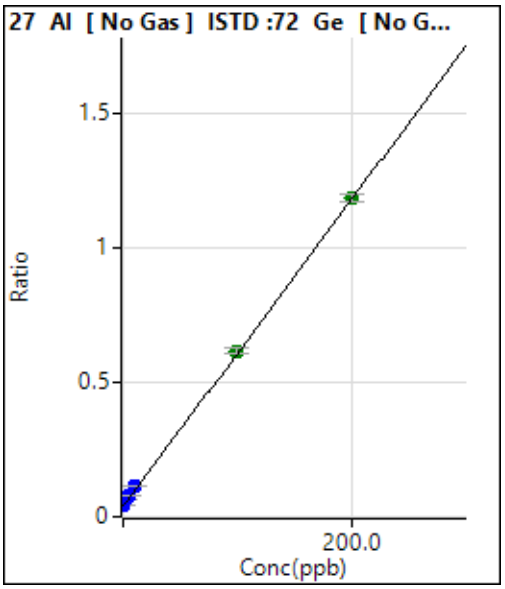
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0009	P	10.2	
2	☐	200.000	203.355	240598.23	0.1752	P	2.6	1.7
3	☐	500.000	494.607	575627.47	0.4248	A	3.2	-1.1
4	☐	1000.000	1023.806	1188254.49	0.8783	A	2.3	2.4
5	☐	10000.00	10072.23	11599054.41	8.6323	A	2.6	0.7
6	☐	20000.00	19962.79	22954083.82	17.1080	A	1.7	-0.2

y = 8.5695E-004 * x + 9.0729E-004
R = 1.0000
DL = 0.3251 ppb
BEC = 1.059 ppb

Weight: <None>
Min Conc: <None>

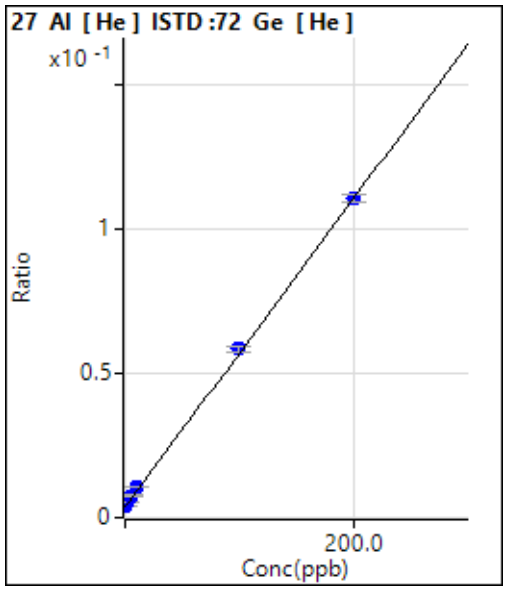


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193314.14	0.0443	P	1.0	
2	☐	2.000	2.961	266805.69	0.0612	P	1.5	48.1
3	☐	5.000	6.146	346436.57	0.0794	P	0.3	22.9
4	☐	10.000	12.150	491296.58	0.1137	P	2.8	21.5
5	☐	100.000	100.019	2637158.81	0.6151	A	3.7	0.0
6	☐	200.000	199.845	4997676.59	1.1847	A	2.7	-0.1

y = 0.0057 * x + 0.0443
R = 1.0000
DL = 0.2301 ppb
BEC = 7.771 ppb

Weight: <None>
Min Conc: <None>

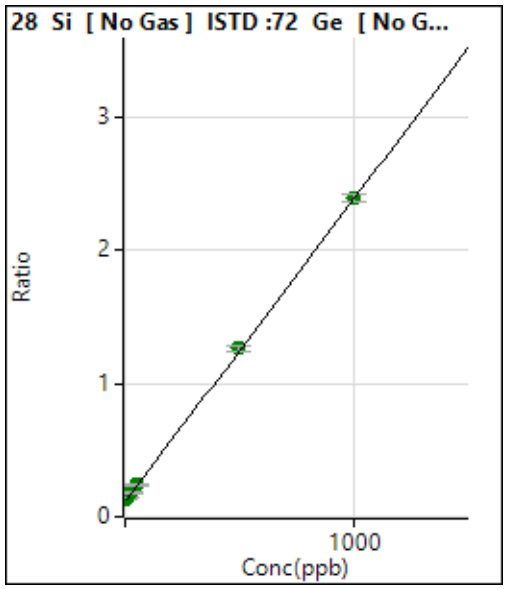
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5864.66	0.0043	P	1.5	
2	☐	2.000	2.364	7598.86	0.0055	P	3.7	18.2
3	☐	5.000	6.343	10387.35	0.0077	P	2.4	26.9
4	☐	10.000	12.107	14541.15	0.0107	P	1.6	21.1
5	☐	100.000	101.632	78817.47	0.0587	P	3.4	1.6
6	☐	200.000	199.042	148669.78	0.1108	P	2.5	-0.5

y = 5.3521E-004 * x + 0.0043
R = 0.9999
DL = 0.3498 ppb
BEC = 7.973 ppb

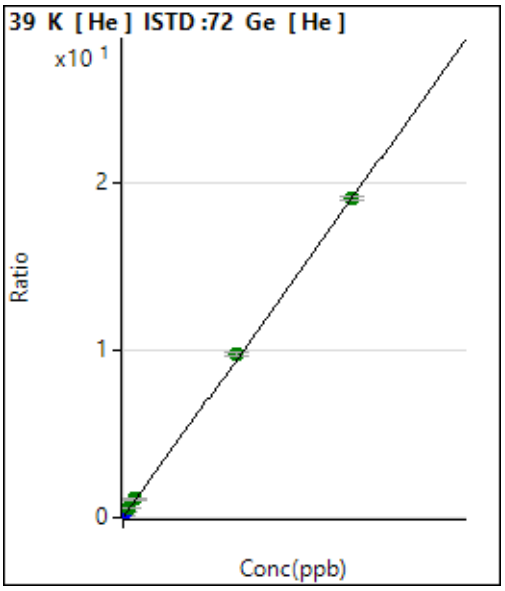
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	544083.64	0.1248	A	0.1	
2	☐	10.000	10.489	647336.42	0.1486	A	0.2	4.9
3	☐	25.000	24.661	788341.94	0.1807	A	1.2	-1.4
4	☐	50.000	51.129	1040449.83	0.2407	A	3.1	2.3
5	☐	500.000	501.773	5413186.59	1.2626	A	3.7	0.4
6	☐	1000.000	999.060	10082694.22	2.3901	A	2.6	-0.1

y = 0.0023 * x + 0.1248
R = 1.0000
DL = 0.2234 ppb
BEC = 55.04 ppb

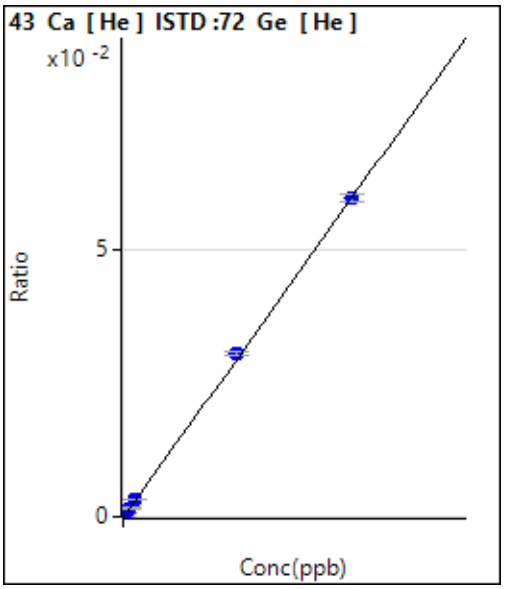
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145309.32	0.1057	P	0.4	
2	☐	200.000	201.719	409560.47	0.2982	P	2.4	0.9
3	☐	500.000	494.949	783265.98	0.5779	A	2.8	-1.0
4	☐	1000.000	1037.794	1482655.19	1.0959	A	2.1	3.8
5	☐	10000.00	10147.32	13151539.80	9.7869	A	1.7	1.5
6	☐	20000.00	19924.55	25647874.62	19.1151	A	1.4	-0.4

y = 9.5407E-004 * x + 0.1057
R = 1.0000
DL = 1.325 ppb
BEC = 110.8 ppb

Weight: <None>
Min Conc: <None>

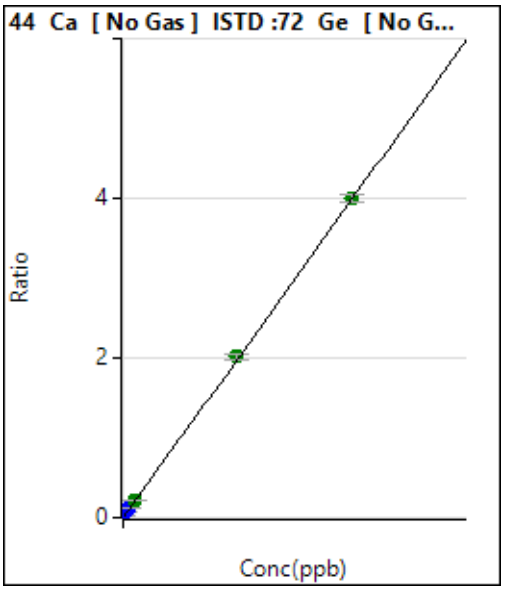


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0001	P	39.1	
2	☐	200.000	210.631	970.06	0.0007	P	20.1	5.3
3	☐	500.000	511.884	2180.21	0.0016	P	8.8	2.4
4	☐	1000.000	1026.628	4264.08	0.0032	P	5.7	2.7
5	☐	10000.00	10200.36	41177.96	0.0306	P	2.6	2.0
6	☐	20000.00	19898.08	80107.44	0.0597	P	2.8	-0.5

y = 2.9971E-006 * x + 7.5183E-005
R = 0.9999
DL = 29.4 ppb
BEC = 25.09 ppb

Weight: <None>
Min Conc: <None>

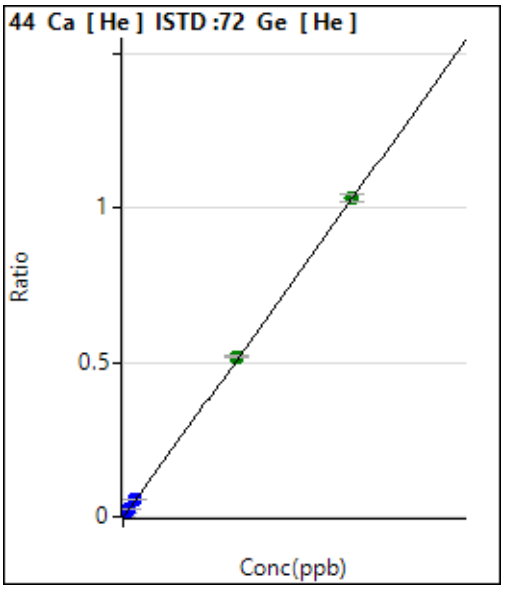
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77170.00	0.0177	P	2.5	
2	☐	200.000	221.279	269276.44	0.0618	P	1.5	10.6
3	☐	500.000	538.615	545546.30	0.1251	P	1.9	7.7
4	☐	1000.000	1024.768	959333.55	0.2220	A	3.5	2.5
5	☐	10000.00	10033.38	8651430.08	2.0177	A	3.1	0.3
6	☐	20000.00	19980.89	16876914.75	4.0006	A	2.2	-0.1

y = 1.9934E-004 * x + 0.0177
R = 1.0000
DL = 6.608 ppb
BEC = 88.8 ppb

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Min Conc: <None>

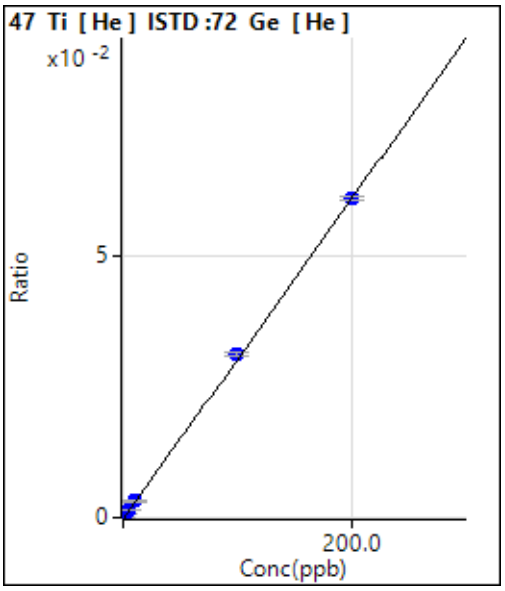


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2573.61	0.0019	P	3.7	
2	☐	200.000	205.056	17090.77	0.0124	P	2.0	2.5
3	☐	500.000	490.452	36802.22	0.0272	P	2.1	-1.9
4	☐	1000.000	1035.868	74780.49	0.0553	P	1.3	3.6
5	☐	10000.00	10030.25	697328.45	0.5189	A	1.2	0.3
6	☐	20000.00	19983.26	1384564.36	1.0320	A	2.0	-0.1

y = 5.1548E-005 * x + 0.0019
R = 1.0000
DL = 4.012 ppb
BEC = 36.33 ppb

Weight: <None>
Min Conc: <None>

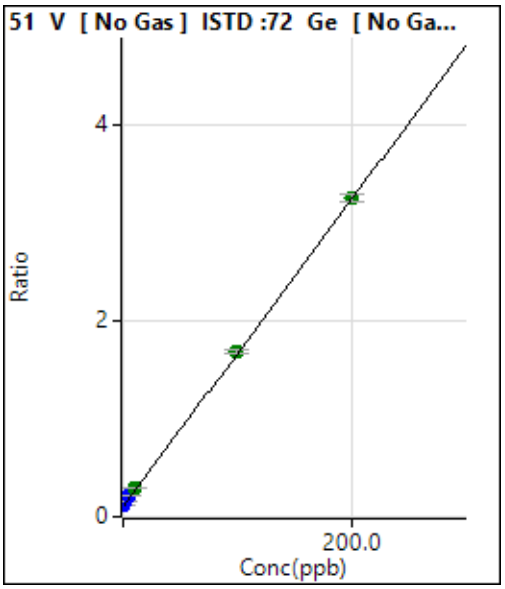
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	2.094	893.38	0.0007	P	9.0	4.7
3	☐	5.000	5.066	2113.54	0.0016	P	2.9	1.3
4	☐	10.000	10.213	4240.72	0.0031	P	1.9	2.1
5	☐	100.000	101.496	41736.19	0.0311	P	2.2	1.5
6	☐	200.000	199.239	81793.78	0.0610	P	1.2	-0.4

y = 3.0592E-004 * x + 9.6904E-006
R = 1.0000
DL = 0.0823 ppb
BEC = 0.03168 ppb

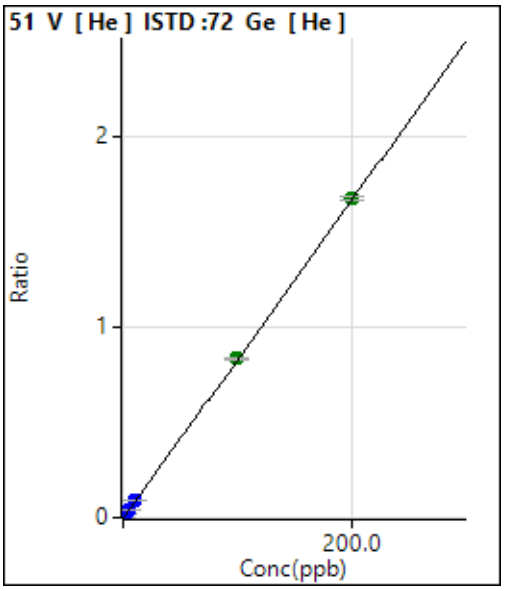
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	517978.49	0.1188	P	1.4	
2	☐	2.000	2.662	699471.71	0.1606	P	0.8	33.1
3	☐	5.000	6.103	935752.14	0.2145	P	1.7	22.1
4	☐	10.000	11.575	1298192.99	0.3003	A	1.2	15.8
5	☐	100.000	99.971	7231859.55	1.6866	A	2.3	0.0
6	☐	200.000	199.902	13725968.25	3.2537	A	2.0	0.0

y = 0.0157 * x + 0.1188
R = 1.0000
DL = 0.3272 ppb
BEC = 7.577 ppb

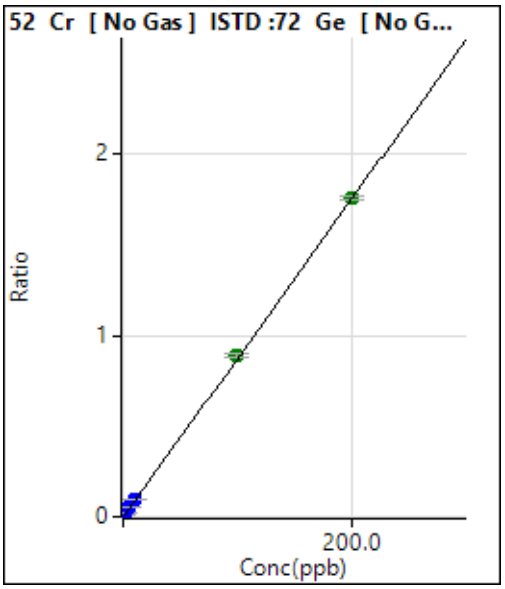
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4532.99	0.0033	P	1.6	
2	☐	2.000	2.025	27813.44	0.0203	P	1.7	1.2
3	☐	5.000	4.888	59936.52	0.0442	P	1.9	-2.2
4	☐	10.000	10.126	119172.53	0.0881	P	1.9	1.3
5	☐	100.000	99.380	1122488.88	0.8354	A	1.9	-0.6
6	☐	200.000	200.306	2254655.47	1.6804	A	1.3	0.2

y = 0.0084 * x + 0.0033
R = 1.0000
DL = 0.01888 ppb
BEC = 0.3939 ppb

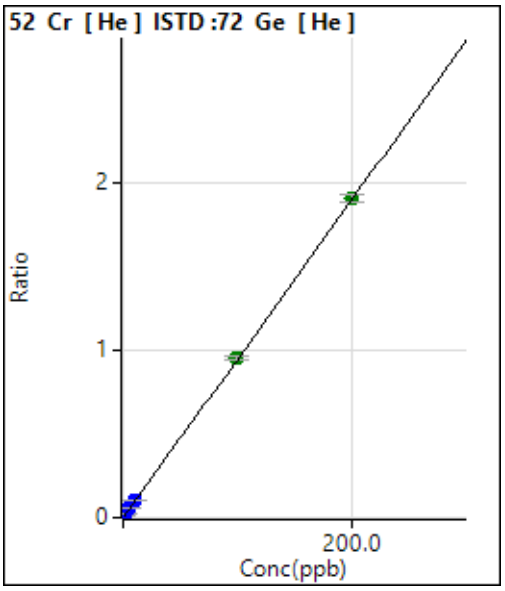
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24051.28	0.0055	P	0.9	
2	☐	2.000	2.112	104774.64	0.0241	P	0.5	5.6
3	☐	5.000	5.125	220217.89	0.0505	P	2.2	2.5
4	☐	10.000	10.375	417313.69	0.0966	P	2.1	3.7
5	☐	100.000	100.629	3809990.36	0.8885	A	1.8	0.6
6	☐	200.000	199.662	7414303.64	1.7575	A	1.5	-0.2

y = 0.0088 * x + 0.0055
R = 1.0000
DL = 0.01764 ppb
BEC = 0.6287 ppb

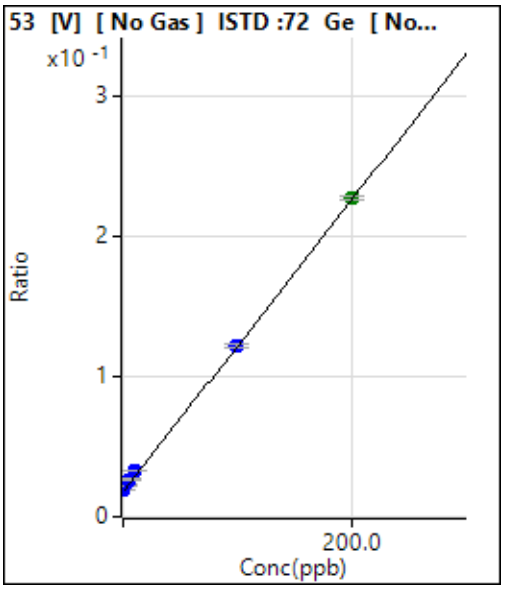
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.05	0.0084	P	0.8	
2	☐	2.000	2.007	37708.50	0.0275	P	3.2	0.4
3	☐	5.000	5.050	76343.33	0.0563	P	3.2	1.0
4	☐	10.000	10.179	142080.10	0.1050	P	0.6	1.8
5	☐	100.000	99.902	1285243.03	0.9565	A	2.4	-0.1
6	☐	200.000	200.039	2558408.92	1.9068	A	2.4	0.0

y = 0.0095 * x + 0.0084
R = 1.0000
DL = 0.02082 ppb
BEC = 0.8859 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83088.63	0.0191	P	1.4	
2	☐	2.000	3.432	98592.51	0.0226	P	0.9	71.6
3	☐	5.000	7.256	116073.57	0.0266	P	2.4	45.1
4	☐	10.000	12.910	140450.29	0.0325	P	1.1	29.1
5	☐	100.000	98.982	523398.29	0.1221	P	2.3	-1.0
6	☐	200.000	200.293	959675.51	0.2275	A	1.6	0.1

y = 0.0010 * x + 0.0191
R = 0.9999
DL = 0.7918 ppb
BEC = 18.32 ppb

Weight: <None>
Min Conc: <None>