LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 13

2025

Bate Stamp Numbers
01311480 – 01313432

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

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

VOLUME 13

2025

A. Title: (Cont'd) Report – Appendix F labs File 1 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: 01311480–01312256

B. 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: 01312257–01313432

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24050146

SAMPLENUM VLCSW-240507

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_466173			VLCSW-240507				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/07/24 Run Time 16:47				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	21.8	109			
1,1,1-Trichloroethane	74-131	20	22.64	113			
1,1,2,2-Tetrachloroethane	71-121	20	22.38	112			
1,1,2-Trichloroethane	80-119	20	21.38	107			
1,1-Dichloroethane	77-125	20	22.83	114			
1,1-Dichloroethene	71-131	20	23.44	117			
1,1-Dichloropropene	78-125	20	21.47	107			
1,2,3-Trichlorobenzene	69-129	20	22.58	113			
1,2,3-Trichloropropane	73-122	20	20.73	104			
1,2,4-Trichlorobenzene	69-130	20	23.35	117			
1,2,4-Trimethylbenzene	76-124	20	24.16	121			
1,2-Dibromo-3-chloropropane	62-128	20	19.1	95.5			
1,2-Dibromoethane	77-121	20	22.18	111			
1,2-Dichlorobenzene	80-119	20	22.87	114			
1,2-Dichloroethane	73-128	20	20.96	105			
1,2-Dichloropropane	78-122	20	21.57	108			
1,3,5-Trimethylbenzene	75-124	20	23.79	119			
1,3-Dichlorobenzene	80-119	20	22.14	111			
1,3-Dichloropropane	80-119	20	21.79	109			
1,4-Dichlorobenzene	79-118	20	22.75	114			
2,2-Dichloropropane	60-139	20	21.1	105			
2-Butanone	56-143	40	41.2	103			
2-Chlorotoluene	79-122	20	23.1	116			
2-Hexanone	57-139	40	40.56	101			
4-Chlorotoluene	78-122	20	23.01	115			
4-Isopropyltoluene	77-127	20	25.11	126			
4-Methyl-2-pentanone	67-130	40	42.89	107			
Acetone	39-160	40	38.36	95.9			
Benzene	79-120	20	21.57	108			
Bromobenzene	80-120	20	22.15	111			
Bromochloromethane	78-123	20	22.65	113			
Bromodichloromethane	79-125	20	21.6	108			
Bromoform	66-130	20	20.71	104			
Bromomethane	53-141	20	27.66	138			
Carbon disulfide	64-133	40	46.13	115			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder **HS24050146**

SAMPLENUM VLCSW-240507

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_466173			VLCSW-240507				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/07/24 Run Time 16:47				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	21.85	109			
Chlorobenzene	82-118	20	21.39	107			
Chloroethane	60-138	20	22.02	110			
Chloroform	79-124	20	21.42	107			
Chloromethane	50-139	20	23.81	119			
cis-1,2-Dichloroethene	78-123	20	22.21	111			
cis-1,3-Dichloropropene	75-124	20	21.52	108			
Dibromochloromethane	74-126	20	21.31	107			
Dibromomethane	79-123	20	21.01	105			
Dichlorodifluoromethane	32-152	20	22.96	115			
Ethylbenzene	79-121	20	22.64	113			
Hexachlorobutadiene	66-134	20	23.22	116			
Isopropylbenzene	72-131	20	24.4	122			
m,p-Xylene	80-121	40	47.64	119			
Methylene chloride	74-124	20	22.43	112			
Naphthalene	61-128	20	21.89	109			
n-Butylbenzene	75-128	20	23.04	115			
n-Propylbenzene	76-126	20	24.66	123			
o-Xylene	78-122	20	23.65	118			
sec-Butylbenzene	77-126	20	24.69	123			
Styrene	78-123	20	24.17	121			
tert-Butylbenzene	78-124	20	24.53	123			
Tetrachloroethene	74-129	20	23.39	117			
Toluene	80-121	20	23.09	115			
trans-1,2-Dichloroethene	75-124	20	23.05	115			
trans-1,3-Dichloropropene	73-127	20	21.09	105			
Trichloroethene	79-123	20	22.93	115			
Trichlorofluoromethane	65-141	20	22.71	114			
Vinyl chloride	58-137	20	22.84	114			

right solutions.
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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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 BI-WEEKLY SAMPLES	HS24050146	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240507	Aqueous	05/07/24 17:30	R466173	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240507	VLCSW-240507	LCS	05/07/24 16:47	R466173	VOA9	U050715.D
Trip Blank	HS24050146-02	SAMP	05/07/24 18:13	R466173	VOA9	U050719.D
BatchQC	HS24041977-09MS	MS	05/07/24 18:56	R466173	VOA9	U050721.D
BatchQC	HS24041977-09MSD	MSD	05/07/24 19:17	R466173	VOA9	U050722.D
LH18/24-SP650_050124	HS24050146-01	SAMP	05/07/24 20:22	R466173	VOA9	U050725.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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: U050701 BFB Injection Date: 05/07/24

Instrument ID: VOA9 BFB Injection Time: 1143

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	18.9
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.3
175	5.0 - 9.0% of mass 174	7.1 (8.0)1
176	95.0 - 101.0% of mass 174	84.7 (95.9)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)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	U050702	05/07/24	1205
02	VSTD00.5	VSTD00.5	U050703	05/07/24	1226
03	VSTD001	VSTD001	U050704	05/07/24	1248
04	VSTD002	VSTD002	U050705	05/07/24	1309
05	VSTD005	VSTD005	U050706	05/07/24	1331
06	VSTD020	VSTD020	U050707	05/07/24	1353
07	VSTD050	VSTD050	U050708	05/07/24	1414
08	VSTD100	VSTD100	U050709	05/07/24	1436
09	VSTD150	VSTD150	U050710	05/07/24	1458
10		VSTD200	U050711	05/07/24	1520
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: U050713 BFB Injection Date: 05/07/24

Instrument ID: VOA9 BFB Injection Time: 1603

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	19.6
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	7.0 (8.4)1
176	95.0 - 101.0% of mass 174	80.6 (96.5)1
177	5.0 - 9.0% of mass 176	5.7 (7.0)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	U050714	05/07/24	1625
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24050146	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466173

Tune File: U050713.D 05/07/24 5/7/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.6 (19.6)
75	30.0 - 60.0% of mass 95	48.6 (48.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.4 (7.37)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	83.6 (83.6) 1
175	5.0 - 9.0% of mass 174	7 (8.42) 1
176	> 95% but < 101% of mass 174	80.6 (96.5) 1
177	5.0 - 9.0% of mass 176	5.7 (7.01) 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	ICV	5/7/2024	U050714	VSTD050
2	VLCSW-	LCS	5/7/2024	U050715	VLCSW-240507
3	VBLKW-	MBLK	5/7/2024	U050717	VBLKW-240507
4	HS24050146-	SAMP	5/7/2024	U050719	Trip Blank
5	HS24041977-	MS	5/7/2024	U050721	ZZZZZZMS
6	HS24041977-	MSD	5/7/2024	U050722	ZZZZZZMSD
7	HS24050146-	SAMP	5/7/2024	U050725	LH18/24-SP650_050124
8	VSTD050	CCV_EN	5/8/2024	U050740	VSTD050

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.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	+++++ / 65682	578 / 149041	1557 / 226326	1935 / 321982	6995	28317	QUAD	0.00255	3.47532	-0.18676	0.99968
3 Chloromethane	+++++ / 93298	1675 / 196655	2801 / 294398	4074 / 428218	10242	40519	QUAD	-0.02082	2.66416	-0.11995	0.99959
4 Propionitrile	+++++ / 157637	2175 / 301666	4378 / 454283	6563 / 628272	16521	64070	LINR	-0.31330	0.05995		0.99953

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++ / 91141	1033 / 200761	2206 / 302899	3212 / 431237	9419	38946	QUAD	-0.00282	2.56393	-0.08119	0.99977
6 Bromomethane	+++++ / 45202	1339 / 98641	2357 / 151120	3123 / 218451	7113	22087	LINR	-0.01464	0.20407		0.99863
7 Chloroethane	+++++ / 63297	624 / 134406	1775 / 199936	2573 / 284336	7332	27424	QUAD	-0.01323	3.78435	-0.07415	0.99971
8 Trichlorofluoromethane	+++++ / 107161	999 / 235146	2473 / 350099	3305 / 499853	11234	46111	QUAD	-0.00290	2.18312	-0.04372	0.99966
9 Acrolein	+++++ / 9057	365 / 17146	367 / 26689	628 / 36447	2063	3583	LINR	-0.12798	0.01721		0.99909
10 Acetone	+++++ / 65536	1575 / 125678	2429 / 180361	3376 / 254435	7115	26744	LINR	-0.09758	0.12061		0.99876
11 1,1-Dichloroethene	+++++ / 60885	760 / 132959	1548 / 199614	2128 / 288932	6623	25623	QUAD	-0.00792	3.94059	-0.27338	0.99969

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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
12 Isobutyl Alcohol	+++++ / 0.05394	0.04284 / 0.05393	0.05890 / 0.05342	0.04955 / 0.05722	0.05077	0.05419	AVRG		0.05275		8.87757
13 Acetonitrile	+++++ / 0.05074	0.05342 / 0.04689	0.04625 / 0.04571	0.05183 / 0.04471	0.05297	0.05365	AVRG		0.04957		7.35012
14 Allyl Chloride	+++++ / 1.21969	1.51523 / 1.12417	1.37366 / 1.10674	1.33373 / 1.08235	1.34211	1.28005	AVRG		1.26419		11.38093
15 Iodomethane	+++++ / 151810	1163 / 352010	1959 / +++++	3027 / +++++	9847	56119	QUAD	0.02494	3.36750	-0.41512	0.99987
16 Acrylonitrile	+++++ / 84618	1473 / 157855	2252 / 237997	3775 / 325459	8951	35349	LINR	-0.08817	0.15562		0.99907
17 Methylene Chloride	+++++ / 80341	4075 / 164577	5625 / 240290	6966 / 341887	11146	36574	LINR	-0.05752	0.32011		0.99955
18 Methyl tert-butyl ether	+++++ / 1.11053	1.36768 / 1.01849	1.29112 / 1.01142	1.29811 / 1.01630	1.22553	1.15614	AVRG		1.16615		11.68580

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	0.75343	0.87586	0.65215	0.73399	0.79333					
	0.75821	0.82952	0.82026	0.85702			AVRG		0.78598		8.84811
20 trans-1,2-Dichloroethene	+++++	855	1968	2703	6703	29100					
	68664	146972	220571	315136			QUAD	-0.00816	3.49057	-0.12879	0.99978
21 Vinyl Acetate	+++++	0.23324	0.21608	0.19315	0.22927	0.21969					
	0.21134	0.21389	0.20682	0.21040			AVRG		0.21488		5.55441
22 1,1-Dichloroethane	+++++	1674	3729	5335	13839	55860					
	130203	276401	407315	586207			LINR	-0.00556	0.55389		0.99946
23 Chloroprene	+++++	322	924	993	3544	11443					
	27342	57857	87928	127729			QUAD	-0.01946	9.08966	-1.70257	0.99974
24 2-Butanone	+++++	0.16051	0.17737	0.14282	0.14747	0.15793					
	0.15582	0.16214	0.15637	0.16111			AVRG		0.15795		6.15992
25 Methacrylonitrile	+++++	0.29134	0.28953	0.26028	0.25843	0.27278					
	0.28402	0.26464	0.25710	+++++			AVRG		0.27226		5.23840

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	1026	1877	2491	7317	32424					
	81912	187920	285676	417606			QUAD	0.00734	2.84127	-0.21204	0.99963
27 cis-1,2-Dichloroethene	+++++	942	2013	3011	7881	32759					
	77684	170041	255129	360131			QUAD	-0.00236	2.98950	-0.05882	0.99979
28 Chloroform	+++++	0.59188	0.69688	0.56508	0.57085	0.56860					
	0.53190	0.55813	0.54028	0.55084			AVRG		0.57494		8.52687
29 Bromochloromethane	+++++	502	1072	1593	3845	16792					
	39351	81205	120727	169265			LINR	-0.01518	0.16125		0.99979
31 1,1,1-Trichloroethane	+++++	0.37954	0.43301	0.32408	0.38648	0.42186					
	0.40593	0.45035	0.43970	0.45957			AVRG		0.41117		10.35614
32 1,1-Dichloropropene	+++++	0.36735	0.29553	0.24898	0.27457	0.28260					
	0.26143	0.28781	0.28067	0.29171			AVRG		0.28785		11.55959
33 1,2-Dichloroethane	+++++	0.40176	0.38017	0.31687	0.31004	0.32749					
	0.30218	0.30617	0.29169	0.29513			AVRG		0.32572		11.94190

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++ / 78443	1152 / 180664	1932 / 275639	2026 / 404504	7430	31953	QUAD	0.00613	4.34101	-0.52984	0.99962	
37 Benzene	+++++ / 0.83588	0.97530 / 0.89124	1.02789 / 0.86132	0.83848 / 0.88409	0.86315	0.89211	AVRG		0.89661		7.17019	
38 Trichloroethene	+++++ / 72534	743 / 160120	1953 / 241342	2748 / 346154	7532	30896	QUAD	-0.00346	4.74397	-0.34519	0.99974	
39 Bromodichloromethane	+++++ / 0.25129	0.25404 / 0.27598	0.26181 / 0.27194	0.22792 / 0.28684	0.21321	0.24727	AVRG		0.25448		9.15173	
40 Methyl Methacrylate	+++++ / 0.18995	+++++ / 0.18510	0.14840 / 0.18355	0.14507 / +++++	0.18454	0.18367	AVRG		0.17433		10.89562	<-
41 2-Chloroethylvinyl ether	+++++ / 1272	+++++ / 2754	+++++ / 4539	11.00000 / 6074	91.00000	741	QUAD	0.01729	502	-248	0.99682	<-
42 1,2-Dichloropropane	+++++ / 79295	942 / 171157	2166 / 254059	3218 / 362446	8250	32375	LINR	0.00300	0.23526		0.99966	

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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	
43 2-Nitropropane	+++++	+++++	0.10072	0.11825	0.07785	0.08763						
	0.09493	0.10141	0.10455	+++++			AVRG		0.09790		13.15008	<-
44 Dibromomethane	+++++	0.18185	0.15881	0.13472	0.14257	0.14581						
	0.13853	0.14234	0.13734	0.14208			AVRG		0.14712		10.01576	
45 4-Methyl-2-Pentanone	+++++	0.30041	0.28562	0.23001	0.23834	0.28338						
	0.28648	0.30227	0.30330	0.31447			AVRG		0.28270		10.38696	
46 cis-1,3-Dichloropropene	+++++	858	1704	2524	7260	38616						
	104989	241726	373463	550020			QUAD	0.02067	3.23345	-0.32352	0.99967	<-
49 Ethyl Methacrylate	+++++	0.37882	0.38949	0.33430	0.39407	0.38426						
	0.35623	0.34395	0.35014	0.36240			AVRG		0.36596		5.86735	
50 Toluene	+++++	0.93513	1.02515	0.89935	0.97561	1.04480						
	0.96440	1.01174	0.99934	1.03102			AVRG		0.98739		4.87152	
51 trans-1,3-Dichloropropene	+++++	542	1103	2073	5385	30455						
	84736	199280	309383	457859			QUAD	0.02655	3.94623	-0.52455	0.99956	

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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	+++++ / 125048	823 / 273104	2287 / 406845	3600 / 591469	9915	44949	LINR	0.07084	0.21272		0.99892	
53 1,1,2-Trichloroethane	+++++ / 0.18883	0.24359 / 0.19285	0.24903 / 0.18984	0.18672 / 0.19636	0.19251	0.20512	AVRG		0.20498		11.73869	
54 1,3-Dichloropropane	+++++ / 0.40954	0.47871 / 0.42088	0.49153 / 0.41364	0.39727 / 0.42361	0.41061	0.43778	AVRG		0.43151		7.53405	
55 Dibromochloromethane	+++++ / 71514	591 / 161616	1058 / 244807	1814 / 357218	5064	26478	LINR	0.04912	0.25687		0.99831	
56 Tetrachloroethene	+++++ / 57805	524 / 127780	1241 / 190045	1887 / 274355	5739	24971	QUAD	-0.00421	5.53522	-0.63269	0.99969	<-
57 1,2-Dibromoethane	+++++ / 0.22514	0.24108 / 0.23469	0.25350 / 0.23194	0.19647 / 0.23894	0.20923	0.23770	AVRG		0.22985		7.56447	
58 1-Chlorohexane	+++++ / 68237	3861 / 153320	4501 / 233546	4890 / 335230	8914	28952	QUAD	-0.03356	5.13879	-0.61644	0.99966	

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59 Chlorobenzene	+++++	0.79010	0.82458	0.63012	0.66562	0.68065						
	0.61852	0.65436	0.64558	0.66715			AVRG		0.68630		10.45050	
60 1,1,1,2-Tetrachloroethane	+++++	484	1282	2003	5265	26698						
	67841	150982	228180	332181			LINR	0.03897	0.23851		0.99857	
61 Ethylbenzene	+++++	0.31799	0.34708	0.28992	0.30721	0.32828						
	0.31689	0.33246	0.33260	0.34402			AVRG		0.32405		5.59280	
62 m,p-Xylenes	+++++	0.33290	0.40201	0.33083	0.37259	0.41806						
	0.39450	0.42220	0.41743	0.43556			AVRG		0.39179		9.82439	
63 o-Xylene	+++++	0.35440	0.39954	0.34334	0.35812	0.41258						
	0.39579	0.41716	0.41310	0.42782			AVRG		0.39132		7.96957	
64 Styrene	+++++	0.54463	0.62880	0.55398	0.60937	0.70555						
	0.69077	0.73565	0.72996	0.75313			AVRG		0.66131		12.00034	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	257	666	1007	2885	15221						
	44718	106736	168544	252813			QUAD	0.02986	6.88121	-2.03155	0.99957	<-
67 Isopropylbenzene	+++++	0.74396	0.89760	0.80947	0.88909	1.01361						
	0.96242	1.04103	1.03297	1.07869			AVRG		0.94098		12.10848	
68 1,1,2,2-Tetrachloroethane	+++++	1306	2612	3743	9413	44003						
	106801	225467	336129	480624			LINR	0.00813	0.64022		0.99965	
71 1,2,3-Trichloropropane	+++++	0.66853	0.59254	0.61877	0.63560	0.61173						
	0.59609	0.64794	0.66506	0.69506			AVRG		0.63681		5.52272	
72 trans-1,4-Dichloro-2-butene	+++++	306	435	859	2204	8154						
	22286	51903	84320	125868			QUAD	0.01111	14.16665	-9.05205	0.99969	
73 n-Propylbenzene	+++++	1.69877	2.06276	1.68935	1.90958	2.16119						
	2.05102	2.14590	2.17424	2.23495			AVRG		2.01419		10.12890	
74 Bromobenzene	+++++	0.54968	0.66807	0.50464	0.51869	0.54304						
	0.49818	0.52592	0.53187	0.54407			AVRG		0.54268		9.25392	

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75 1,3,5-Trimethylbenzene	+++++ / 1.46913	1.24598 / 1.58216	1.47513 / 1.60059	1.17929 / 1.64892	1.34539	1.55654	AVRG		1.45590		11.32795
76 2-Chlorotoluene	+++++ / 1.26545	1.47528 / 1.35473	1.50848 / 1.36053	1.26837 / 1.38118	1.26454	1.38514	AVRG		1.36263		6.50379
77 4-Chlorotoluene	+++++ / 1.48423	1.60382 / 1.56792	1.60528 / 1.57080	1.33085 / 1.61187	1.42598	1.60385	AVRG		1.53384		6.47120
78 tert-Butylbenzene	+++++ / 1.23965	0.99730 / 1.32207	1.22791 / 1.33254	0.97507 / 1.36953	1.21633	1.31903	AVRG		1.22216		11.76008
79 1,2,4-Trimethylbenzene	+++++ / 1.48035	1.16072 / 1.58506	1.35021 / 1.59928	1.12917 / 1.62658	1.33162	1.56497	AVRG		1.42533		13.37986
80 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++ / 1.62999	1.29313 / 1.77295	1.66119 / 1.79201	1.27226 / 1.84925	1.51536	1.70817	AVRG		1.61048		13.04344

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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	+++++	1.11227	1.28023	1.04128	1.28548	1.53172						
	1.48292	1.60846	1.62080	1.66097			AVRG		1.40268		16.40109	
83 1,3-Dichlorobenzene	+++++	1.00763	1.09253	0.88498	0.89727	0.94774						
	0.87814	0.93706	0.93549	0.96081			AVRG		0.94907		7.09769	
84 1,4-Dichlorobenzene	+++++	2024	4070	5993	15489	65701						
	163595	350380	516179	742115			LINR	0.00901	0.98771		0.99960	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	759	1403	2290	5627	26428						
	79658	227226	395943	627463			QUAD	0.05929	3.27148	-0.62002	0.99714	
87 n-Butylbenzene	+++++	1564	3736	5352	17285	85646						
	221359	499478	749513	1083507			QUAD	0.01300	0.76248	-0.01346	0.99976	
88 1,2-Dichlorobenzene	+++++	1873	3213	5340	14138	64478						
	158544	333550	498844	707408			LINR	0.00768	0.94527		0.99978	

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	0.2500000	0.5000000	1.0000	2.0000	5.0000	20.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
89 1,2-Dibromo-3-Chloropropane	+++++	65.00000	188	256	827	4254					
	13266	32022	50380	73753			QUAD	0.03869	12.11723	-5.49983	0.99911 <-
90 1,2,4-Trichlorobenzene	+++++	693	1543	2492	7474	37095					
	97480	219402	337577	486707			QUAD	0.01490	1.73563	-0.08281	0.99976
91 Hexachlorobutadiene	+++++	0.26354	0.24297	0.19339	0.23776	0.24417					
	0.22809	0.25208	0.25605	0.26277			AVRG		0.24231		8.96302
92 Naphthalene	+++++	1860	3927	5486	16682	95694					
	265609	586659	889446	1279650			LINR	0.04332	1.71267		0.99910
93 1,2,3-Trichlorobenzene	+++++	0.55872	0.62099	0.45824	0.50492	0.56217					
	0.54144	0.59863	0.60506	0.62017			AVRG		0.56337		9.82298
130 Ethyl Acetate	+++++	0.47818	0.42702	0.40062	0.41004	0.43939					
	0.42269	0.42777	0.41363	0.42080			AVRG		0.42668		5.23591
131 Methyl Acrylate	+++++	1823	3276	5720	12024	49034					

	124639	242950	371780	515432			LINR	-0.01745	0.49164		0.99986

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132 n-Butanol	+++++	0.01710	0.01520	0.01131	0.01259	0.01171					
	0.01316	0.01297	0.01330	+++++			AVRG		0.01342		14.10655
133 Ethyl Acrylate	+++++	0.83891	0.68148	0.82152	0.86351	0.97387					
	1.01677	0.99617	1.00339	1.01938			AVRG		0.91278		12.89218
134 Cyclohexanone	+++++	789	1788	3320	7960	31021					
	83410	167333	251800	+++++			LINR	-0.04356	0.02358		0.99991
135 1,4-Dioxane	197	412	818	1012	2798	10394					
	27674	51178	78579	111654			LINR	-0.29197	0.00528		0.99933
136 n-Hexane	+++++	811	1884	2449	7275	31596					
	75823	168177	249117	363692			QUAD	-0.00282	3.14010	-0.18006	0.99947
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.23700	0.29017	0.19783	0.28944	0.28723					

	0.25901	0.27820	0.27330	0.28212			AVRG		0.26603		11.57316

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
146 Methyl Acetate	+++++	1937	3883	5867	16801	59820					
	138501	280480	408705	566150			LINR	-0.03664	0.54097		0.99930
147 Methylcyclohexane	+++++	0.56179	0.44802	0.55222	0.58127	0.66402					
	0.69235	0.68117	0.68682	0.69663			AVRG		0.61825		14.04047
149 Isopropyl alcohol	+++++	2485	4473	6724	16893	63675					
	155054	300487	444241	+++++			LINR	-0.64007	0.02965		0.99891
152 Amyl alcohol	+++++	551	878	2053	6413	25462					
	69820	146565	231157	332830			QUAD	0.10500	95.53064	-13.51304	0.99998
150 Allyl alcohol	+++++	811	1884	2449	7275	31596					
	75823	168177	249117	363692			QUAD	-0.05630	62.80207	-3.60113	0.99947
151 4-Methyl-2-pentanol	+++++	4761	8960	16169	51970	230659					
	599037	1257802	1993529	2880850			LINR	0.69651	0.09307		0.99885
148 Tert-butyl alcohol	+++++	2735	6018	9237	21887	76161					

	186489	354421	538019	763294			LINR	-0.55429	0.03599		0.99951

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
139 Diethyl ether	+++++	0.42928	0.37121	0.40546	0.36816	0.34143					
	0.33879	0.30189	0.30152	0.29977			AVRG		0.35084		13.33970
140 1,3-Butadiene	+++++	0.28800	0.37763	0.28710	0.33650	0.33824					
	0.30646	0.32738	0.32070	0.33333			AVRG		0.32393		8.66958
141 Cyclohexane	+++++	5220	6206	6934	13919	45991					
	105816	236338	356274	516629			LINR	-0.00503	0.48405		0.99874
142 Tetrahydrofuran	+++++	509	1229	1900	4287	16410					
	40651	76388	115705	160482			LINR	-0.06765	0.07637		0.99947
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	706	1629	2888	9215	47046					

	123916	275408	420083	603435			LINR	0.04099	0.80686		0.99898

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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	+++++ / 1.39707	1.60133 / 1.27018	1.39782 / 1.26242	1.62106 / 1.25951	1.46114	1.45825	AVRG		1.41431		9.68895	
157 n-Heptane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++ / 0.70635	0.74946 / 0.65931	0.57393 / 0.65350	0.80664 / 0.64910	0.81846	0.77017	AVRG		0.70966		11.60699	
159 Propylene oxide	+++++	+++++	0.03731	0.03917	0.03548	0.03598						

	0.03193	0.02816	0.02988	0.03106			AVRG		0.03362		11.61685	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	1617	2730	5241	12890	58996						
	183116	416154	681141	991139			QUAD	0.02780	1.71455	-0.11953	0.99952	
163 Butyl methacrylate	+++++	0.52126	0.51177	0.64570	0.68988	0.63824						
	0.59971	0.67914	0.76250	0.77865			AVRG		0.64743		14.44385	
164 Dicyclopentadiene	+++++	6222	7350	16464	39433	173400						
	433675	859217	1316712	1841641			LINR	-0.00156	2.46413		0.99977	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.84087	1.52189	1.96114	1.94105	2.02334						

	1.93078	1.80146	1.84512	1.83487			AVRG		1.85561		7.79266

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	520	1084	1541	3194	11839					
	29675	55066	83180	115408			LINR	-0.82095	0.00548		0.99935
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	+++++	0.40754	0.40917	0.34251	0.35981	0.33680					
	0.34069	0.30221	0.35636	+++++			AVRG		0.35689		10.14161
173 3,3-Dimethyl-1-butanol	+++++	3047	5673	8149	23589	88345					
	216329	428323	677428	977684			LINR	0.30790	0.03485		0.99828
174 tert-Amyl methyl ether	+++++	1.17456	1.07750	1.08473	1.12351	1.15851					
	1.16468	1.10634	1.14357	1.12480			AVRG		1.12869		3.07001
175 tert-Butyl ethyl ether	+++++	1.21051	1.09354	1.25978	1.14833	1.15056					

	1.13923	1.08608	1.10140	1.12348			AVRG		1.14588		4.97687

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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								
176 tert-Amyl alcohol	+++++	0.03950	0.03357	0.03328	0.03450	0.03372						
	0.03407	0.03022	0.03564	+++++			AVRG		0.03431		7.58918	
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	+++++	0.02245	0.02496	0.02203	0.01889	0.01873						

	0.02065	0.02074	0.02129	0.02239			AVRG		0.02135		9.00349

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	0.06521	0.07399	0.06899	0.09181	0.08922	AVRG		0.08050		11.33723	
	0.08235	0.08527	0.08230	0.08542								
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.45799	0.49551	0.49750	0.57763	0.47473	AVRG		0.51393		10.03675	
	0.45413	0.51865	0.55242	0.59684								
188 Isopropyl acetate	+++++	0.56571	0.72074	0.68406	0.68834	0.74269						

	0.73461	0.72893	0.73146	0.77768			AVRG		0.70825		8.51919

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	1111	2135	3570	10359	51789						
	144160	330461	508889	743802			LINR	0.05902	0.53481		0.99769	
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	+++++	1055	2602	3690	9909	33458						
	85820	160542	240390	313789			LINR	-0.22087	0.07657		0.99719	
195 Methyl Amyl Ketone	+++++	1474	3132	5882	17489	76437						

	211223	445917	714947	1025172			LINR	0.04774	0.73776		0.99806

ALS Laboratory Group

INITIAL CALIBRATION DATA

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End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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							
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	#####	292	584	1323	3642	17116					
	54839	150878	299141	#####			QUAD	0.03849	5.62969	-2.61836	0.99811
201 1-Butene(1)	#####	#####	#####	#####	#####	#####					
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000
(2)	#####	#####	#####	#####	#####	#####					

	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

	0.2500000	0.5000000	1.0000	2.0000	5.0000	20.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	50.0000	100.0000	150.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
202 Isobutylene	+++++	262	304	1563	4808	20583					
	49587	100002	153193	210955			LINR	-0.00630	0.20238		0.99987
203 2-Ethylhexyl Acrylate	+++++	664	1047	2400	5129	30339					
	101193	227102	367719	532256			QUAD	0.03680	1.67098	-0.10315	0.99927
M 94 1,2-Dichloroethylene (total)	+++++	1797	3981	5714	14584	61859					
	146348	317013	475700	675267			QUAD	-0.01013	3.22099	-0.04399	0.99980
M 95 Xylenes (total)	+++++	0.30309	0.36099	0.29934	0.32997	0.37660					
	0.36382	0.38737	0.37557	0.38919			AVRG		0.35399		9.80093
$ 30 Dibromofluoromethane	+++++	1673	2915	4422	9896	39563					
	90004	178142	262465	361095			LINR	-0.04301	0.34508		0.99929
$ 35 1,2-Dichloroethane-d4	+++++	2366	3917	5718	13371	50052					
	111558	214226	311362	424260			LINR	-0.06398	0.40622		0.99834
$ 48 Toluene-d8	+++++	6516	10301	15047	36394	148038					

	338905	665665	978016	1351380			LINR	-0.03495	0.97808		0.99962

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	3252	4236	5812	13624	54594					
	126399	244719	360368	501218			LINR	-0.03720	0.36141		0.99962

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE

Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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 HS24050146

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	41.7	83.5	80-120	
1,1,1-Trichloroethane	50.0	42.6	85.2	80-120	
1,1,2,2-Tetrachloroethane	50.0	41.4	82.7	80-120	
Freon TF	50.0	41.0	82.0	80-120	
Methyl acetate	50.0	42.6	85.2	80-120	
Cyclohexane	50.0	40.2	80.4	80-120	
Methylcyclohexane	50.0	49.3	98.6	80-120	
Carbon Disulfide	100	84.2	84.2	80-120	
2-Hexanone	100	81.6	81.6	80-120	
1,1,2-Trichloroethane	50.0	40.4	80.8	80-120	
1,1-Dichloroethane	50.0	41.7	83.3	80-120	
1,1-Dichloroethene	50.0	43.0	86.0	80-120	
1,1-Dichloropropene	50.0	40.5	81.0	80-120	
1,2,3-Trichlorobenzene	50.0	41.8	83.6	80-120	
1,2,3-Trichloropropane	50.0	40.5	81.0	80-120	
1,2,4-Trichlorobenzene	50.0	42.2	84.4	80-120	
1,2,4-Trimethylbenzene	50.0	45.9	91.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	40.7	81.5	80-120	
1,2-Dibromoethane	50.0	43.4	86.8	80-120	
Acrolein	100	83.6	83.6	80-120	
Acrylonitrile	100	92.4	92.4	80-120	
1,2-Dichlorobenzene	50.0	41.3	82.6	80-120	
1,2-Dichloroethane	50.0	40.2	80.3	80-120	
1,2-Dichloropropane	50.0	41.5	82.9	80-120	
1,3,5-Trimethylbenzene	50.0	44.9	89.8	80-120	
1,3-Dichlorobenzene	50.0	40.7	81.5	80-120	
1,3-Dichloropropane	50.0	41.8	83.7	80-120	
1,4-Dichlorobenzene	50.0	41.1	82.2	80-120	
1-Chlorohexane	50.0	40.6	81.2	80-120	
2,2-Dichloropropane	50.0	40.0	80.0	80-120	
2-Butanone	100	83.1	83.1	80-120	
2-Chloroethylvinyl ether	100	107	107	80-120	
2-Chlorotoluene	50.0	40.7	81.4	80-120	
4-Chlorotoluene	50.0	42.5	85.0	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24050146

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.1	92.2	80-120	
4-Methyl-2-Pentanone	100	88.4	88.4	80-120	
Acetone	100	86.5	86.5	80-120	
Acetonitrile	500	436	87.2	80-120	
Allyl Chloride	50.0	41.2	82.3	80-120	
Benzene	50.0	40.3	80.6	80-120	
Bromobenzene	50.0	40.7	81.4	80-120	
Bromochloromethane	50.0	42.7	85.4	80-120	
Bromodichloromethane	50.0	42.4	84.9	80-120	
Bromoform	50.0	41.8	83.7	80-120	
Bromomethane	50.0	51.0	102	80-120	
Carbon Tetrachloride	50.0	41.0	82.1	80-120	
Chlorobenzene	50.0	40.4	80.9	80-120	
Chloroethane	50.0	41.7	83.3	80-120	
Chloroform	50.0	40.1	80.3	80-120	
Chloromethane	50.0	43.5	87.0	80-120	
Chloroprene	50.0	43.1	86.1	80-120	
cis-1,2-Dichloroethene	50.0	41.7	83.4	80-120	
cis-1,3-Dichloropropene	50.0	42.0	84.0	80-120	
Dibromochloromethane	50.0	41.1	82.3	80-120	
Dibromomethane	50.0	40.4	80.9	80-120	
Dichlorodifluoromethane	50.0	40.6	81.2	80-120	
Ethylbenzene	50.0	43.2	86.4	80-120	
Ethyl Methacrylate	50.0	40.3	80.6	80-120	
Iodomethane	100	82.6	82.6	80-120	
Isobutyl Alcohol	1000	906	90.6	70-130	
Propionitrile	500	457	91.3	70-130	
Hexachlorobutadiene	50.0	40.9	81.7	80-120	
Isopropylbenzene	50.0	45.6	91.1	80-120	
m,p-Xylenes	100	89.0	89.0	80-120	
Methyl tert-butyl ether	50.0	42.3	84.6	80-120	
Methylene Chloride	50.0	42.8	85.6	80-120	
Methacrylonitrile	50.0	43.6	87.2	80-120	
Methyl Methacrylate	50.0	44.9	89.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24050146

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	41.6	83.2	80-120	
n-Propylbenzene	50.0	44.9	89.7	80-120	
Naphthalene	50.0	40.3	80.7	80-120	
o-Xylene	50.0	44.3	88.6	80-120	
sec-Butylbenzene	50.0	44.6	89.3	80-120	
Styrene	50.0	46.4	92.9	80-120	
tert-Butylbenzene	50.0	44.6	89.3	80-120	
Tetrachloroethene	50.0	42.7	85.4	80-120	
Toluene	50.0	43.2	86.4	80-120	
trans-1,2-Dichloroethene	50.0	41.6	83.2	80-120	
trans-1,3-Dichloropropene	50.0	42.1	84.2	80-120	
trans-1,4-Dichloro-2-butene	50.0	42.2	84.4	80-120	
Trichloroethene	50.0	41.7	83.4	80-120	
Trichlorofluoromethane	50.0	40.7	81.5	80-120	
Vinyl Acetate	100	81.1	81.1	80-120	
Vinyl Chloride	50.0	41.0	82.0	80-120	
Methyl Acrylate	50.0	45.3	90.7	80-120	
Ethyl Acrylate	50.0	48.8	97.5	80-120	
Butyl acrylate	50.0	44.8	89.6	80-120	
2-Ethylhexyl Acrylate	50.0	43.7	87.3	80-120	
Allyl alcohol	1000	812	81.2	80-120	
1,2-Dichloroethylene (total)	100	83.3	83.3	80-120	
Xylenes (total)	150	131	87.6	80-120	
1,4-Dioxane	1000	857	85.7	80-120	
Dibromofluoromethane	50.0	50.5	101	71-125	
1,2-Dichloroethane-d4	50.0	50.2	100	70-125	
Toluene-d8	50.0	51.1	102	75-125	
4-Bromofluorobenzene	50.0	51.2	102	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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 HS24050146

RunID U050740.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U050740.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 08-MAY-2024 0148
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	58.8	0.344	0.100	-17.515	50.0	Quadratic	
Chloromethane	50.0	55.5	0.433	0.100	-10.936	50.0	Quadratic	
Propionitrile	500	446	0.055	0.010	10.8	50.0	Linear	
Vinyl Chloride	50.0	56.5	0.448	0.100	-13.078	50.0	Quadratic	
Bromomethane	50.0	52.5	0.217	0.100	-4.922	50.0	Linear	
Chloroethane	50.0	58.1	0.312	0.100	-16.176	50.0	Quadratic	
Trichlorofluoromethane	50.0	58.9	0.547	0.100	-17.847	50.0	Quadratic	
Acrolein	100	91.9	0.017	0.010	8.10	50.0	Linear	
Acetone	100	95.9	0.122	0.100	4.08	50.0	Linear	
1,1-Dichloroethene	50.0	59.1	0.308	0.100	-18.161	50.0	Quadratic	
Isobutyl Alcohol	0.053	0.054	0.054	0.005	-1.495	50.0	Averaged	
Acetonitrile	0.050	0.046	0.046	0.005	6.72	50.0	Averaged	
Allyl Chloride	1.26	1.08	1.08	0.100	14.3	50.0	Averaged	
Iodomethane	100	94.0	0.297	0.100	5.98	50.0	Quadratic	
Acrylonitrile	100	94.1	0.153	0.050	5.89	50.0	Linear	
Methylene Chloride	50.0	57.8	0.388	0.100	-15.596	50.0	Linear	
Methyl tert-butyl ether	1.17	0.996	0.996	0.100	14.6	50.0	Averaged	
Carbon Disulfide	0.786	0.918	0.918	0.100	-16.736	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	59.2	0.346	0.100	-18.446	50.0	Quadratic	
Vinyl Acetate	0.215	0.203	0.203	0.010	5.71	50.0	Averaged	
1,1-Dichloroethane	50.0	59.7	0.664	0.200	-19.319	50.0	Linear	
Chloroprene	++++	++++	1.603e+65	0.100	++++	50.0	Quadratic	*
2-Butanone	0.158	0.151	0.151	0.100	4.34	50.0	Averaged	
Methacrylonitrile	0.272	0.230	0.230	0.100	15.7	50.0	Averaged	
2,2-Dichloropropane	50.0	52.8	0.380	0.100	-5.639	50.0	Quadratic	
cis-1,2-Dichloroethene	50.0	56.4	0.381	0.100	-12.747	50.0	Quadratic	
Chloroform	0.575	0.646	0.646	0.200	-12.296	50.0	Averaged	
Bromochloromethane	50.0	58.2	0.190	0.100	-16.454	50.0	Linear	
30 Dibromofluoromethane	50.0	51.5	0.370	0.100	-3.065	50.0	Linear	
1,1,1-Trichloroethane	0.411	0.497	0.497	0.100	-20.947	50.0	Averaged	
1,1-Dichloropropene	0.288	0.322	0.322	0.100	-11.827	50.0	Averaged	
1,2-Dichloroethane	0.326	0.354	0.354	0.100	-8.753	50.0	Averaged	
Carbon Tetrachloride	50.0	58.4	0.277	0.100	-16.899	50.0	Quadratic	
35 1,2-Dichloroethane-d4	50.0	51.9	0.448	0.100	-3.898	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050146

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID U050740.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U050740.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 08-MAY-2024 0148
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.897	0.998	0.998	0.500	-11.337	50.0	Averaged	
Trichloroethene	50.0	57.6	0.248	0.200	-15.158	50.0	Quadratic	
Bromodichloromethane	0.254	0.307	0.307	0.200	-20.637	50.0	Averaged	
Methyl Methacrylate	0.174	0.140	0.140	0.100	19.4	50.0	Averaged	
2-Chloroethylvinyl ether	++++	++++	1.603e+65	0.001	++++	50.0	Quadratic	*
1,2-Dichloropropane	50.0	57.8	0.271	0.100	-15.663	50.0	Linear	
2-Nitropropane	0.098	0.083	0.083	0.000	15.0	50.0	Averaged	
Dibromomethane	0.147	0.160	0.160	0.100	-8.644	50.0	Averaged	
4-Methyl-2-Pentanone	0.283	0.293	0.293	0.100	-3.615	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	56.0	0.353	0.200	-12.033	50.0	Quadratic	
48 Toluene-d8	50.0	53.9	1.09	0.100	-7.898	50.0	Linear	
Ethyl Methacrylate	0.366	0.282	0.282	0.100	23.0	50.0	Averaged	
Toluene	0.987	1.15	1.15	0.400	-16.534	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	56.1	0.289	0.100	-12.205	50.0	Quadratic	
2-Hexanone	100	94.0	0.193	0.100	5.95	50.0	Linear	
1,1,2-Trichloroethane	0.205	0.215	0.215	0.100	-4.893	50.0	Averaged	
1,3-Dichloropropane	0.432	0.474	0.474	0.100	-9.828	50.0	Averaged	
Dibromochloromethane	50.0	53.5	0.262	0.100	-6.902	50.0	Linear	
Tetrachloroethene	50.0	56.9	0.211	0.200	-13.791	50.0	Quadratic	
1,2-Dibromoethane	0.230	0.256	0.256	0.100	-11.312	50.0	Averaged	
1-Chlorohexane	50.0	55.3	0.228	0.100	-10.601	50.0	Quadratic	
Chlorobenzene	0.686	0.770	0.770	0.500	-12.193	50.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	54.3	0.250	0.100	-8.639	50.0	Linear	
Ethylbenzene	0.324	0.366	0.366	0.100	-13.006	50.0	Averaged	
m,p-Xylenes	0.392	0.468	0.468	0.100	-19.554	50.0	Averaged	
o-Xylene	0.391	0.471	0.471	0.300	-20.263	50.0	Averaged	
Styrene	0.661	0.816	0.816	0.300	-23.414	50.0	Averaged	
Bromoform	50.0	54.5	0.162	0.100	-8.905	50.0	Quadratic	
Isopropylbenzene	0.941	1.14	1.14	0.100	-21.084	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	52.9	0.673	0.300	-5.900	50.0	Linear	
69 4-Bromofluorobenzene	50.0	55.0	0.411	0.100	-10.009	50.0	Linear	
1,2,3-Trichloropropane	0.637	0.642	0.642	0.100	-0.802	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	51.2	0.075	0.050	-2.358	50.0	Quadratic	
n-Propylbenzene	2.01	2.38	2.38	0.100	-18.194	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050146

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID U050740.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U050740.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 08-MAY-2024 0148
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.543	0.563	0.563	0.100	-3.692	50.0	Averaged	
1,3,5-Trimethylbenzene	1.46	1.67	1.67	0.100	-14.925	50.0	Averaged	
2-Chlorotoluene	1.36	1.46	1.46	0.100	-7.299	50.0	Averaged	
4-Chlorotoluene	1.53	1.70	1.70	0.100	-10.739	50.0	Averaged	
tert-Butylbenzene	1.22	1.40	1.40	0.100	-14.822	50.0	Averaged	
1,2,4-Trimethylbenzene	1.43	1.70	1.70	0.100	-19.117	50.0	Averaged	
sec-Butylbenzene	1.61	1.85	1.85	0.100	-15.021	50.0	Averaged	
p-Isopropyltoluene	1.40	1.66	1.66	0.100	-17.995	50.0	Averaged	
1,3-Dichlorobenzene	0.949	1.00	1.00	0.600	-5.467	50.0	Averaged	
1,4-Dichlorobenzene	50.0	53.7	1.05	0.400	-7.450	50.0	Linear	
Benzyl Chloride	50.0	42.8	0.256	0.010	14.4	50.0	Quadratic	
n-Butylbenzene	50.0	53.0	1.41	0.500	-6.016	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	54.7	1.03	0.400	-9.337	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	47.1	0.077	0.050	5.86	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	51.8	0.606	0.200	-3.681	50.0	Quadratic	
Hexachlorobutadiene	0.242	0.243	0.243	0.100	-0.396	50.0	Averaged	
Naphthalene	50.0	47.8	1.56	0.200	4.33	50.0	Linear	
1,2,3-Trichlorobenzene	0.563	0.599	0.599	0.100	-6.328	50.0	Averaged	
Methyl Acetate	50.0	50.1	0.561	0.100	-0.114	50.0	Linear	
Freon TF	0.266	0.311	0.311	0.100	-16.767	50.0	Averaged	
Cyclohexane	50.0	55.3	0.538	0.100	-10.618	50.0	Linear	
Tetrahydrofuran	100	88.5	0.070	0.001	11.5	50.0	Linear	
Methylcyclohexane	0.618	0.590	0.590	0.100	4.50	50.0	Averaged	
1,4-Dioxane	1000	785	0.004	0.001	21.5	50.0	Linear	
n-Butanol	0.013	0.010	0.010	0.005	28.5	50.0	Averaged	
n-Hexane	50.0	52.8	0.344	0.100	-5.645	50.0	Quadratic	
Diethyl ether	0.351	0.302	0.302	0.100	13.9	50.0	Averaged	
Tert-butyl alcohol	1000	815	0.030	0.005	18.5	50.0	Linear	
Isopropyl alcohol	1000	818	0.025	0.005	18.2	50.0	Linear	
Amyl alcohol	1000	771	0.008	0.005	22.9	50.0	Quadratic	
Diisopropyl ether	1.41	1.32	1.32	0.100	6.37	50.0	Averaged	
Butyl acrylate	50.0	43.6	0.510	0.100	12.8	50.0	Quadratic	
n-Amyl acetate	0.514	0.508	0.508	0.100	1.15	50.0	Averaged	
Dicyclopentadiene	50.0	43.5	2.15	0.100	13.0	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

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

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES **HS24050146**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U050740.D

Instrument ID VOA9.i
Lab File ID U050740.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 08-MAY-2024 0148
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	1.86	1.68	1.68	0.100	9.23	50.0	Averaged	
Ethanol	1000	808	0.005	0.001	19.2	50.0	Linear	
tert-Butyl formate	0.357	0.225	0.225	0.100	36.9	50.0	Averaged	
3,3-Dimethyl-1-butanol	1000	747	0.026	0.005	25.3	50.0	Linear	
tert-Amyl methyl ether	1.13	1.00	1.00	0.005	11.0	50.0	Averaged	
tert-Butyl ethyl ether	1.15	1.05	1.05	0.100	8.48	50.0	Averaged	
tert-Amyl alcohol	0.034	0.023	0.023	0.005	34.3	50.0	Averaged	
4-Methyl-2-pentanol	1000	779	0.069	0.005	22.1	50.0	Linear	
1,3-Butadiene	0.324	0.380	0.380	0.100	-17.164	50.0	Averaged	
Dichlorofluoromethane	0.710	0.670	0.670	0.100	5.65	50.0	Averaged	
Epichlorohydrin	0.021	0.017	0.017	0.001	20.7	50.0	Averaged	
94 1,2-Dichloroethylene (total	100	++++	0.363	0.200	++++	50.0	Quadratic	*
95 Xylenes (total)	0.354	0.432	0.432	0.100	-22.141	50.0	Averaged	
alpha-Methylstyrene	50.0	51.1	0.792	0.100	-2.296	50.0	Linear	
Ethyl Acetate	0.427	0.405	0.405	0.100	5.03	50.0	Averaged	
Methyl Acrylate	50.0	44.5	0.446	0.100	11.0	50.0	Linear	
n-Butyl acetate	50.0	47.5	0.477	0.100	4.94	50.0	Linear	
Cyclohexanone	1000	707	0.017	0.005	29.3	50.0	Linear	
Isoprene	0.080	0.100	0.100	0.010	-23.727	50.0	Averaged	
Isopropyl acetate	0.708	0.729	0.729	0.100	-2.955	50.0	Averaged	
Allyl alcohol	1000	1056	0.017	0.004	-5.645	50.0	Quadratic	
Acetaldehyde	200	214	0.086	0.001	-6.844	50.0	Linear	
Methyl Amyl Ketone	50.0	40.1	0.556	0.100	19.9	50.0	Linear	
Dimethyl Disulfide	50.0	43.4	0.159	0.020	13.3	50.0	Quadratic	
Isobutylene	++++	++++	1.603e+65	0.010	++++	50.0	Linear	*
Ethyl Acrylate	0.913	0.854	0.854	0.100	6.40	50.0	Averaged	
Butyl methacrylate	0.647	0.557	0.557	0.100	13.9	50.0	Averaged	
Propylene oxide	0.034	0.029	0.029	0.005	14.1	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	41.5	0.490	0.100	17.0	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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 HS24050146

EPA SW8260

VOA9_466173		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene-d5				1,4-Dichlorobenzene-d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
HS24050146-01	U050725.D	245583	#	4.82	*	365244	*	5.55	#	326560	*	8.19	#	161285	#	10.17	*
HS24050146-02	U050719.D	250197	#	4.82	*	367868	*	5.55	#	328056	*	8.19	#	159677	#	10.17	*
VBLKW-240507	U050717.D	253017	#	4.82	*	373254	*	5.55	#	331950	*	8.19	#	165476	#	10.17	*
VLCSW-240507	U050715.D	256268	#	4.82	*	376240	*	5.55	#	337548	*	8.19	#	178344	#	10.17	*
ICV-VSTD050	U050714.D	263402		4.82		384476		5.55		342608		8.19		186247		10.17	
MS-ZZZZZZMS	U050721.D	257027	#	4.82	*	370408	*	5.55	#	333409	*	8.19	#	177592	#	10.17	*
ZZZZZZMSD	U050722.D	254251	#	4.82	*	373941	*	5.55	#	334527	*	8.19	#	181873	#	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

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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 **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-466173

Run ID VOA9_466173 **Start Date** 05/07/24 **EndDate** 05/08/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
16:25	VSTD050	ICV	VSTD050	U050714.D	05/07/24	1
16:47	VLCSW-240507	LCS	VLCSW-240507	U050715.D	05/07/24	1
17:30	VBLKW-240507	MBLK	VBLKW-240507	U050717.D	05/07/24	1
17:51	HS24042014-01	SAMP	ZZZZZZZZZZ	U050718.D	05/07/24	1
18:13	HS24050146-02	SAMP	Trip Blank	U050719.D	05/07/24	1
18:34	HS24041977-09	SAMP	ZZZZZZZZZZ	U050720.D	05/07/24	1
18:56	HS24041977-09MS	MS	ZZZZZZMS	U050721.D	05/07/24	1
19:17	HS24041977-09MSD	MSD	ZZZZZZMSD	U050722.D	05/07/24	1
19:39	HS24041945-10	SAMP	ZZZZZZZZZZ	U050723.D	05/07/24	1
20:00	HS24041945-11	SAMP	ZZZZZZZZZZ	U050724.D	05/07/24	1
20:22	HS24050146-01	SAMP	LH18/24-	U050725.D	05/07/24	1
20:44	HS24042014-02	SAMP	ZZZZZZZZZZ	U050726.D	05/07/24	1
21:05	HS24050069-02	SAMP	ZZZZZZZZZZ	U050727.D	05/07/24	1
21:27	HS24050069-03	SAMP	ZZZZZZZZZZ	U050728.D	05/07/24	1
21:48	HS24050069-04	SAMP	ZZZZZZZZZZ	U050729.D	05/07/24	1
22:09	HS24050069-05	SAMP	ZZZZZZZZZZ	U050730.D	05/07/24	1
22:31	HS24050069-06	SAMP	ZZZZZZZZZZ	U050731.D	05/07/24	1
22:52	HS24050069-07	SAMP	ZZZZZZZZZZ	U050732.D	05/07/24	1
23:14	HS24050069-08	SAMP	ZZZZZZZZZZ	U050733.D	05/07/24	1
23:36	HS24050069-09	SAMP	ZZZZZZZZZZ	U050734.D	05/07/24	1
23:57	HS24050069-10	SAMP	ZZZZZZZZZZ	U050735.D	05/07/24	1
00:19	HS24050069-11	SAMP	ZZZZZZZZZZ	U050736.D	05/08/24	1
00:41	HS24050069-12	SAMP	ZZZZZZZZZZ	U050737.D	05/08/24	1
01:02	HS24050069-13	SAMP	ZZZZZZZZZZ	U050738.D	05/08/24	1
01:27	HS24050069-01	SAMP	ZZZZZZZZZZ	U050739.D	05/08/24	10
01:48	VSTD050	CCV_END	VSTD050	U050740.D	05/08/24	1

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	**HS24050146**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-467760

Run ID VOA9_467760 **Start Date** 05/07/24 **EndDate** 05/07/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:05	VSTD00.25	ICAL1	VSTD00.25	U050702.D	05/07/24	1
12:26	VSTD00.5	ICAL2	VSTD00.5	U050703.D	05/07/24	1
12:48	VSTD001	ICAL3	VSTD001	U050704.D	05/07/24	1
13:09	VSTD002	ICAL4	VSTD002	U050705.D	05/07/24	1
13:31	VSTD005	ICAL5	VSTD005	U050706.D	05/07/24	1
13:53	VSTD020	ICAL6	VSTD020	U050707.D	05/07/24	1
14:14	VSTD050	ICAL7	VSTD050	U050708.D	05/07/24	1
14:36	VSTD100	ICAL8	VSTD100	U050709.D	05/07/24	1
14:58	VSTD150	ICAL9	VSTD150	U050710.D	05/07/24	1
15:20	VSTD200	ICAL	VSTD200	U050711.D	05/07/24	1
16:25	VSTD050	ICV	VSTD050	U050714.D	05/07/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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\U240507.b\U050713.D Page 1
Report Date: 07-May-2024 16:20

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240507.b\U050713.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-MAY-2024 16:03
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\U240507.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: 2 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	1.000	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	65048			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12758			15.00- 40.00	19.61
9.194	9.180	(0.000)	75	31632			30.00- 60.00	48.63
9.194	9.180	(0.000)	96	4796			5.00- 9.00	7.37
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	54360			50.00- 0.00	83.57
9.194	9.180	(0.000)	175	4579			5.00- 9.00	8.42
9.194	9.180	(0.000)	176	52440			95.00- 101.00	96.47
9.194	9.180	(0.000)	177	3677			5.00- 9.00	7.01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.61
75	30.00 - 60.00% of mass 95	48.63
96	5.00 - 9.00% of mass 95	7.37
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.57
175	5.00 - 9.00% of mass 174	7.04 (8.42)
176	95.00 - 101.00% of mass 174	80.62 (96.47)
177	5.00 - 9.00% of mass 176	5.65 (7.01)

Data File: U050713.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.20	82	57.90	111	87.00	2732	136.90	143
36.00	661	59.90	701	87.90	2805	140.00	82
37.10	3379	61.00	3169	91.00	281	140.90	567
38.00	2817	62.00	3127	92.00	2005	142.00	81
39.00	1404	63.00	2381	93.00	2872	142.90	691
39.90	212	64.00	276	94.00	8060	143.70	63
41.00	77	65.10	144	95.00	65048	144.90	61
41.80	51	66.90	209	96.00	4796	145.90	134
42.30	54	68.00	6713	97.10	144	146.80	66
42.90	96	69.00	6837	103.80	280	147.80	164
44.00	591	70.00	601	104.90	75	149.90	62
45.00	693	71.90	369	105.90	275	153.00	56
46.10	82	73.00	2829	106.70	86	154.00	83
47.00	1018	74.00	10991	110.90	79	154.80	184
48.00	486	75.00	31632	114.80	87	156.90	124
49.00	2800	76.00	2966	115.90	251	160.90	61
50.00	12758	76.90	460	116.90	426	171.90	269
51.00	4025	77.90	283	117.90	256	173.90	54360
52.00	172	78.90	1690	118.90	430	175.00	4579
52.80	59	79.90	518	127.90	222	175.90	52440
53.30	64	80.90	1892	128.70	87	176.90	3677
55.10	246	81.90	459	130.00	244	177.90	123
56.00	983	82.90	90	130.90	66		
57.00	1811	85.90	109	135.00	101		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240507.b\u050713.d Page 1

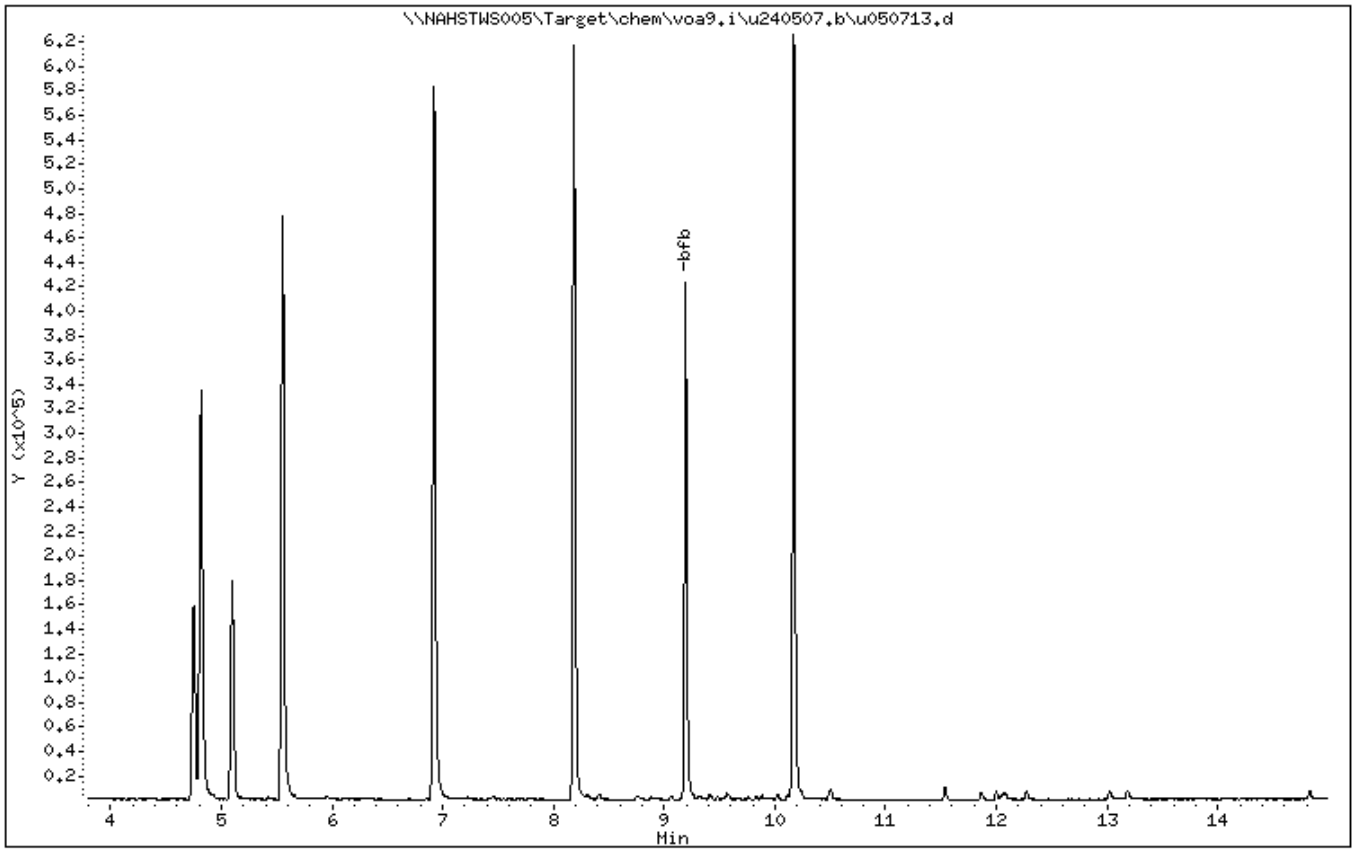
Date : 07-MAY-2024 16:03

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\u240507.b\u050713.d
Inj Date : 07-MAY-2024 16:03
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D Page 1
Report Date: 28-May-2024 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Lab Smp Id: VSTD050
Inj Date : 07-MAY-2024 16:25
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 28-May-2024 11:07 rucha.pate Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.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	4.815	(1.000)	263402	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	62123	40.5905	40.59
3 Chloromethane	50	1.299	1.299	(0.270)	89391	43.4753	43.47
4 Propionitrile	54	4.336	4.336	(0.900)	149112	456.511	456.51
5 Vinyl Chloride	62	1.378	1.378	(0.286)	85351	40.9728	40.97
6 Bromomethane	94	1.614	1.614	(0.335)	55593	50.9801	50.98
7 Chloroethane	64	1.696	1.696	(0.352)	59189	41.6704	41.67
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	99431	40.7482	40.74
9 Acrolein	56	2.266	2.266	(0.471)	8164	83.6228	83.62
10 Acetone	43	2.409	2.409	(0.500)	58043	86.4697	86.46
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	58944	43.0109	43.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	251700	905.739	905.73
13 Acetonitrile	39	2.671	2.671	(0.555)	113839	435.898	435.89
14 Allyl Chloride	41	2.671	2.671	(0.555)	274066	41.1522	41.15
15 Iodomethane	142	2.469	2.469	(0.513)	135877	82.5805	82.58(M)
16 Acrylonitrile	53	3.065	3.065	(0.636)	79407	92.4495	92.44
17 Methylene Chloride	84	2.795	2.795	(0.580)	77043	42.8101	42.81
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	259774	42.2857	42.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	348774	84.2338	84.23
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63994	41.6142	41.61

21 Vinyl Acetate	43	4.339	4.339 (0.901)	91824	81.1187	81.11
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	122395	41.6684	41.66

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	2.158	2.158	(0.448)	26008	43.0721	43.07(M)
24	2-Butanone	43	4.264	4.264	(0.886)	69162	83.1192	83.11
25	Methacrylonitrile	41	4.493	4.493	(0.933)	62512	43.5837	43.58(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	75121	40.0205	40.02(M)
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	74115	41.7076	41.70
28	Chloroform	83	4.572	4.572	(0.949)	121586	40.1433	40.14
29	Bromochloromethane	128	4.467	4.467	(0.928)	36929	42.7149	42.71
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	95714	50.5009	50.50
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	92283	42.6043	42.60
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	89645	40.5006	40.50
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	100617	40.1722	40.17
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	73910	41.0524	41.05
$ 35	1,2-Dichloroethane-d4	65	5.097	5.097	(1.058)	114335	50.2286	50.22
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	384476	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	278028	40.3262	40.32
38	Trichloroethene	130	5.786	5.786	(1.043)	68779	41.7071	41.70
39	Bromodichloromethane	83	6.277	6.277	(1.131)	83026	42.4292	42.42
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	41223	44.8880	44.88
41	2-Chloroethylvinyl ether	63	6.630	6.630	(1.195)	1629	106.933	106.93(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	74741	41.4661	41.46
43	2-Nitropropane	43	6.506	6.506	(1.351)	21265	41.2301	41.23
44	Dibromomethane	93	6.116	6.116	(1.102)	45763	40.4529	40.45
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	171262	88.4117	88.41
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	99960	41.9733	41.97
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	342608	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	354217	51.1050	51.10
49	Ethyl Methacrylate	69	7.215	7.215	(1.300)	113341	40.2765	40.27
50	Toluene	91	6.978	6.978	(0.853)	292173	43.1840	43.18
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	81732	42.0870	42.08
52	2-Hexanone	43	7.589	7.589	(0.927)	113712	81.5568	81.55
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	56758	40.4093	40.40
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	123682	41.8301	41.83
55	Dibromochloromethane	129	7.691	7.691	(0.940)	68102	41.1469	41.14
56	Tetrachloroethene	164	7.454	7.454	(0.911)	54081	42.6882	42.68
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	68331	43.3847	43.38
58	1-Chlorohexane	55	8.197	8.197	(1.477)	64537	40.5826	40.58
59	Chlorobenzene	112	8.208	8.208	(1.003)	190161	40.4373	40.43
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	65014	41.7288	41.72
61	Ethylbenzene	106	8.305	8.305	(1.015)	95921	43.1990	43.19
62	m,p-Xylenes	106	8.407	8.407	(1.027)	239036	89.0404	89.04
63	o-Xylene	106	8.744	8.744	(1.068)	118762	44.2916	44.29
64	Styrene	104	8.759	8.759	(1.070)	210441	46.4403	46.44
66	Bromoform	173	8.916	8.916	(1.089)	41683	41.8489	41.84
67	Isopropylbenzene	105	9.063	9.063	(1.107)	293838	45.5722	45.57
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	97668	41.3612	41.36
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131348	51.1788	51.17
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186247	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	96067	40.4989	40.49
72	trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	20970	42.2149	42.21
73	n-Propylbenzene	91	9.411	9.411	(0.926)	336648	44.8699	44.86
74	Bromobenzene	156	9.318	9.318	(0.916)	82267	40.6967	40.69
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	243586	44.9159	44.91

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	206463	40.6765	40.67
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	242939	42.5204	42.52

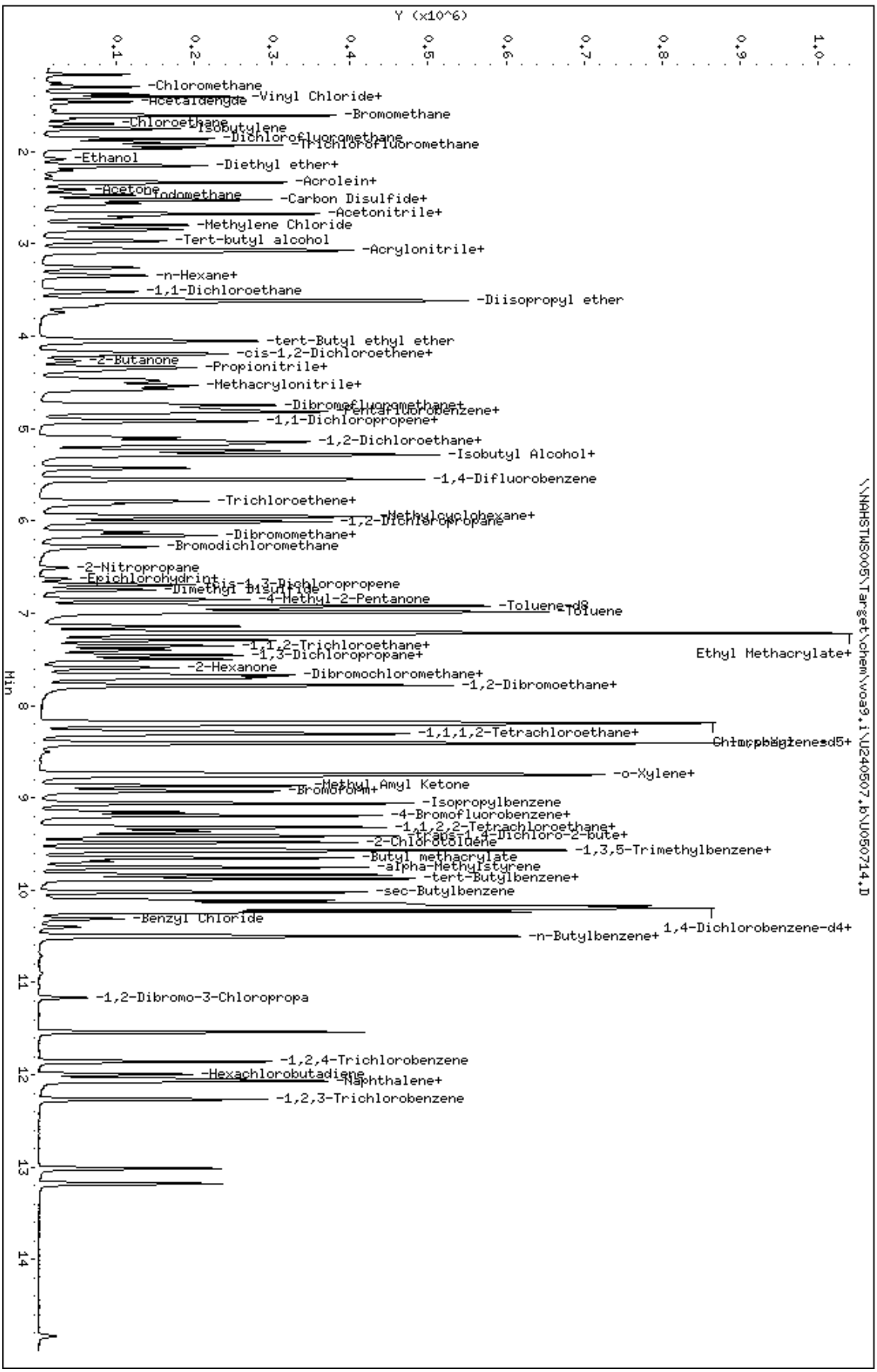
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	203175	44.6296	44.62
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	243909	45.9403	45.94
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	267742	44.6316	44.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	240742	46.0758	46.07
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	144060	40.7497	40.74
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	149489	41.0815	41.08
86	Benzyl Chloride	91	10.311	10.311	(1.260)	84492	41.4188	41.41(M)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	203952	41.5912	41.59
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	144128	41.3174	41.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12294	40.7287	40.72
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	91044	42.1772	42.17
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	36889	40.8698	40.86
92	Naphthalene	128	12.065	12.065	(1.187)	243506	40.3354	40.33
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	87699	41.7907	41.79
146	Methyl acetate	43	2.712	2.712	(0.563)	126574	42.5824	42.58
138	Freon TF	101	2.337	2.337	(0.485)	57443	40.9874	40.98
141	Cyclohexane	56	4.785	4.785	(0.994)	103088	40.1755	40.17
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	38460	92.2102	92.21
147	Methylcyclohexane	55	5.947	5.947	(1.072)	234441	49.3137	49.31
135	1,4-Dioxane	88	6.165	6.165	(1.280)	24227	856.716	856.71
132	n-Butanol	56	5.820	5.820	(1.209)	58544	828.382	828.38
136	n-Hexane	57	3.342	3.342	(0.694)	69381	40.5903	40.59
139	Diethyl ether	59	2.146	2.146	(0.446)	77216	41.7787	41.77
148	Tert-butyl alcohol	59	2.964	2.964	(0.615)	172632	882.832	882.83
149	Isopropyl alcohol	45	2.559	2.559	(0.531)	144415	892.528	892.52
152	Amyl alcohol	42	7.394	7.394	(0.903)	63757	870.731	870.73
156	Diisopropyl ether	45	3.620	3.620	(0.752)	324723	43.5832	43.58
162	Butyl acrylate	55	8.733	8.733	(1.067)	179978	44.7750	44.77
187	n-Amyl acetate	43	8.931	8.931	(1.091)	141502	40.1816	40.18
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	414438	45.0742	45.07
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	317727	45.9672	45.96
167	Ethanol	45	2.083	2.083	(0.433)	26643	881.279	881.27
172	tert-Butyl formate	59	5.239	5.239	(1.088)	158576	84.3449	84.34
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	199397	850.339	850.33
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	267074	44.9167	44.91
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	272642	45.1653	45.16
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	158576	877.288	877.28
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	568542	829.244	829.24
140	1,3-Butadiene	54	1.404	1.404	(0.292)	70517	41.3237	41.32
158	Dichlorofluoromethane	67	1.858	1.858	(0.386)	162117	43.3641	43.36
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29141	177.510	177.51
M 94	1,2-Dichloroethylene (total)	96				138109	83.3314	83.33
M 95	Xylenes (total)	106				357798	131.445	131.44
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	115687	40.5415	40.54
130	Ethyl Acetate	43	4.339	4.339	(0.901)	91824	40.8510	40.85
131	Methyl Acrylate	55	4.369	4.369	(0.907)	119669	45.3325	45.33
189	n-Butyl acetate	43	7.706	7.706	(0.941)	137040	40.3465	40.34
134	Cyclohexanone	55	9.153	9.153	(0.900)	74037	840.779	840.77
185	Isoprene	39	2.158	2.158	(0.448)	17847	42.0819	42.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	247635	45.4703	45.47
150	Allyl alcohol	57	3.342	3.342	(0.694)	69381	811.806	811.80
194	Acetaldehyde	44	1.460	1.460	(0.303)	85948	202.021	202.02

195 Methyl Amyl Ketone	43	8.868	8.868 (1.083)	198180	41.5898	41.58
200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	56102	44.5069	44.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
202 Isobutylene	41	1.753	1.753	(0.364)	46988	43.7578	43.75(M)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	234441	48.7550	48.75
163 Butyl methacrylate	41	9.647	9.647	(0.949)	104818	43.4636	43.46
159 Propylene oxide	43	2.199	2.199	(0.457)	14462	81.6514	81.65
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	96302	43.6616	43.66

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\U240507,b\U050714,D
Date : 07-MAY-2024 16:25
Client ID:
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

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

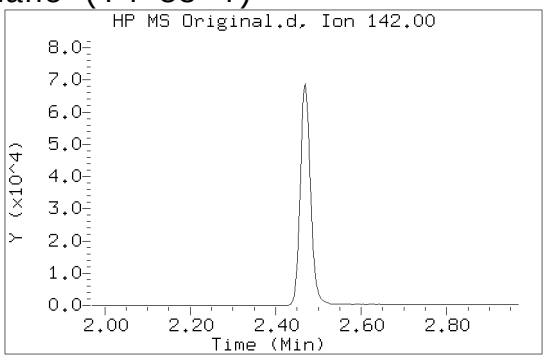
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Iodomethane (74-88-4)

Reason Code:

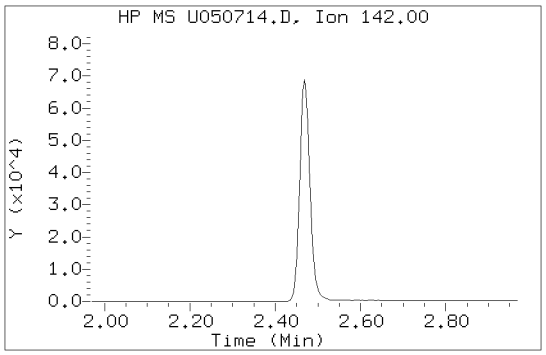
BEFORE

MASS
142
AREA
135877
HEIGHT
69102
07-May-2024
16:55
firat
tastan



AFTER

MASS
142
AREA
135877
HEIGHT
69102
28-May-2024
11:08
firat
tasta



BEFORE

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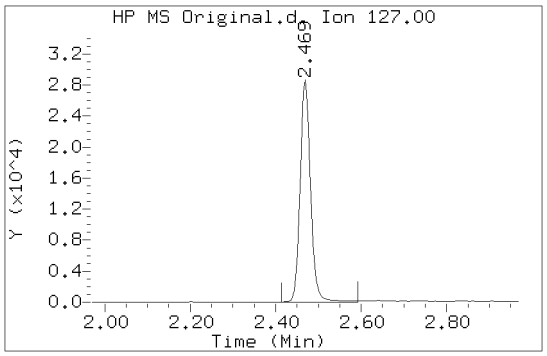
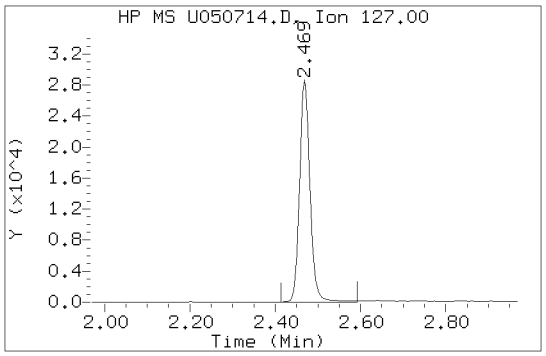
127
AREA
49763
HEIGHT
28656
07-May-2024
16:55
firat
tastan



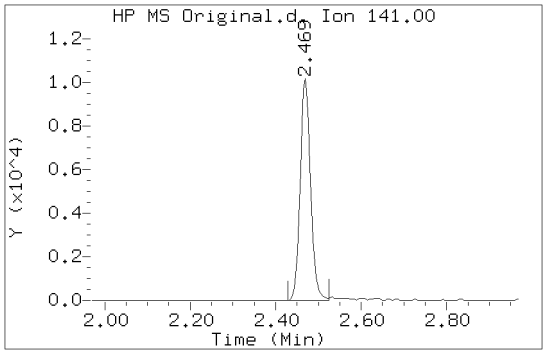
AFTER

MASS
127
AREA
49763
HEIGHT
28656
28-May-2024
11:08
firat
tasta



BEFORE

MASS
141
AREA
17435
HEIGHT
10169
07-May-2024
16:55
firat
tastan



AFTER

MASS
141
AREA
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HEIGHT
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28-May-2024
11:08
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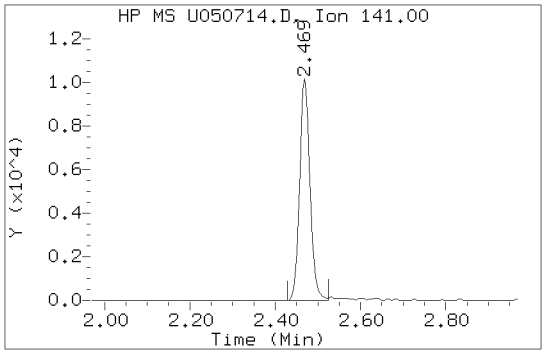
tasta

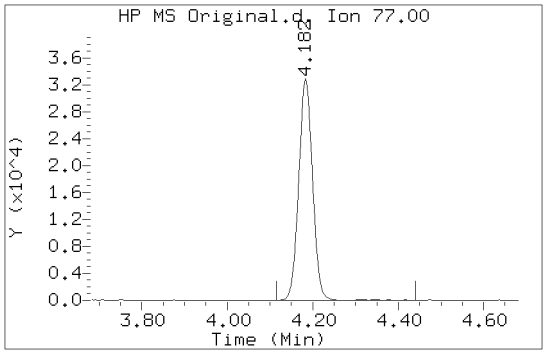


2,2-Dichloropropane (594-20-7)

Reason Code:

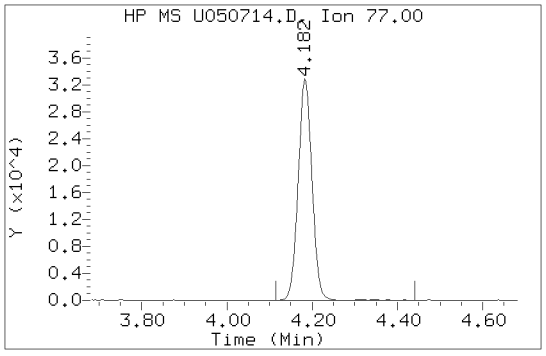
BEFORE

MASS
77
AREA
75121
HEIGHT
32912
07-May-2024
16:55
firat
tastan



AFTER

MASS
77
AREA
75121
HEIGHT
32912
28-May-2024
11:08
firat
tasta



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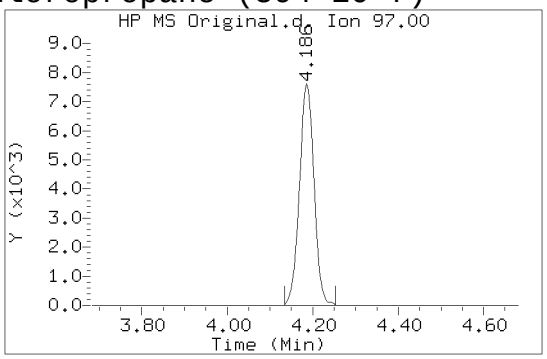
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

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

Reason Code:

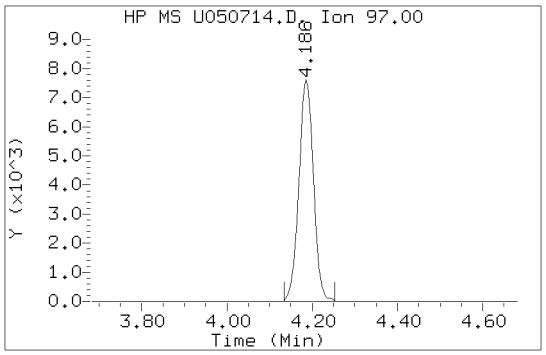
BEFORE

MASS
97
AREA
18308
HEIGHT
7619
07-May-2024
16:55
firat
tastan



AFTER

MASS
97
AREA
18308
HEIGHT
7619
28-May-2024
11:08
firat
tasta

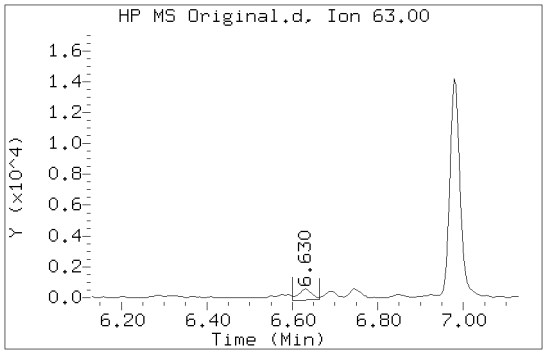


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

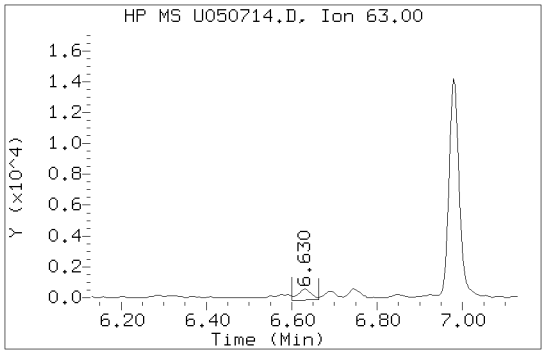
BEFORE

MASS
63
AREA
1629
HEIGHT
728
07-May-2024
16:55
firat
tastan



AFTER

MASS
63
AREA
1629
HEIGHT
728
28-May-2024
11:08
firat
tasta



BEFORE

MASS
65
AREA
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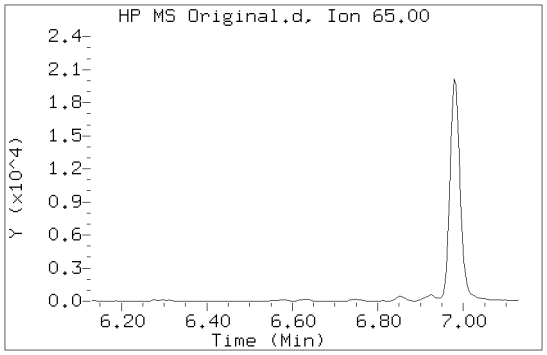
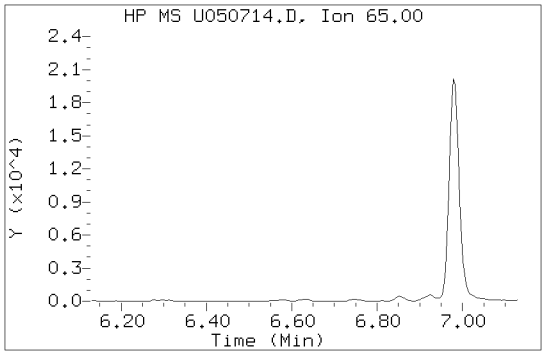
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
65
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



BEFORE

MASS
106
AREA
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HEIGHT
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07-May-2024
16:55
firat
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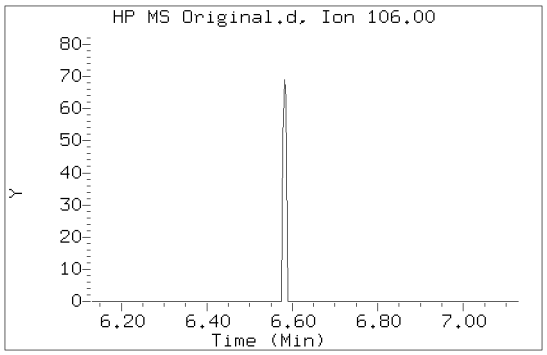
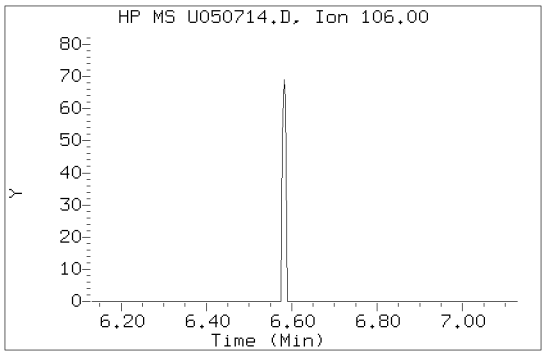


AFTER

MASS
106
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



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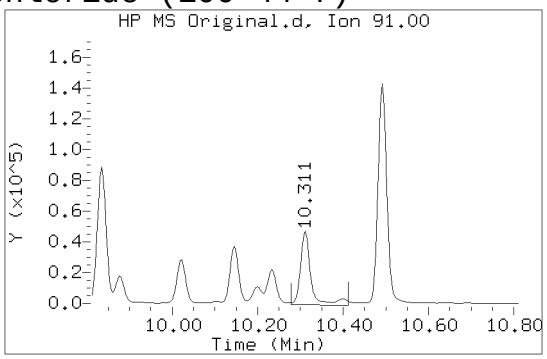
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Benzyl Chloride (100-44-7)

Reason Code:

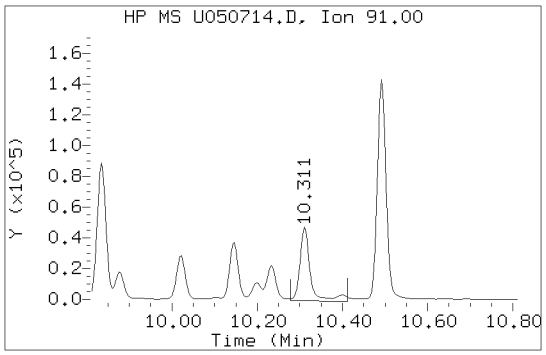
BEFORE

MASS
91
AREA
84492
HEIGHT
48137
07-May-2024
16:55
firat
tastan



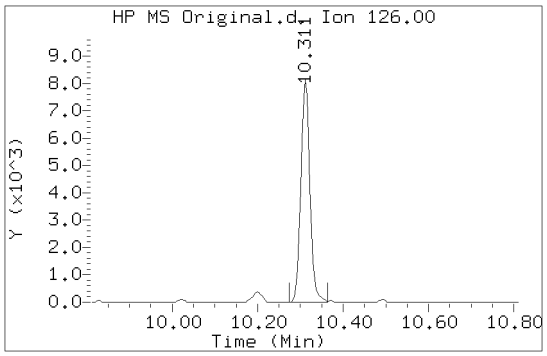
AFTER

MASS
91
AREA
84492
HEIGHT
48137
28-May-2024
11:08
firat
tasta



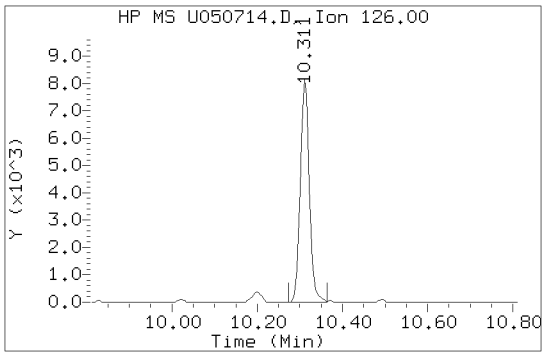
BEFORE

MASS
126
AREA
12207
HEIGHT
8130
07-May-2024
16:55
firat
tastan



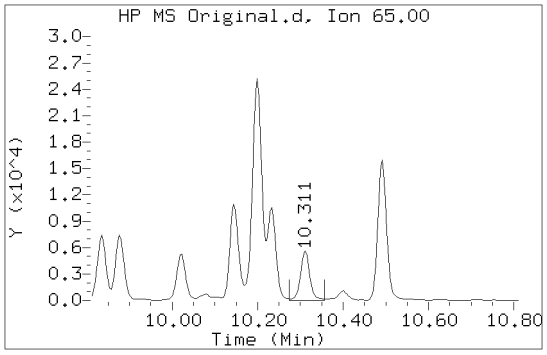
AFTER

MASS
126
AREA
12207
HEIGHT
8130
28-May-2024
11:08
firat
tasta



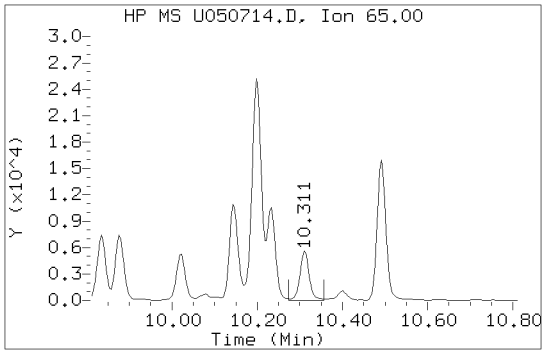
BEFORE

MASS
65
AREA
8669
HEIGHT
5613
07-May-2024
16:55
firat
tastan



AFTER

MASS
65
AREA
8669
HEIGHT
5613
28-May-2024
11:08
firat
tasta



Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
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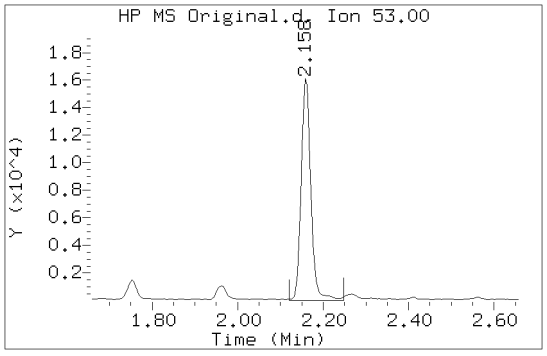
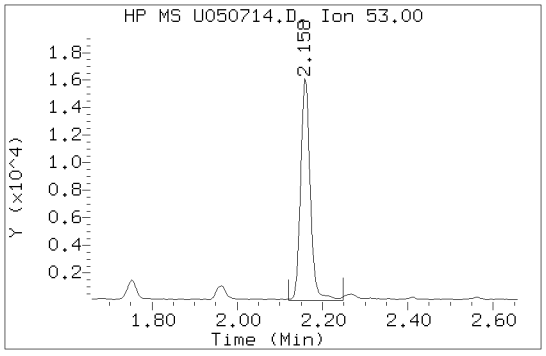
HEIGHT
16094
07-May-2024
16:55
firat
tastan



AFTER

MASS
53
AREA
26008
HEIGHT
16094
28-May-2024
11:08
firat
tasta



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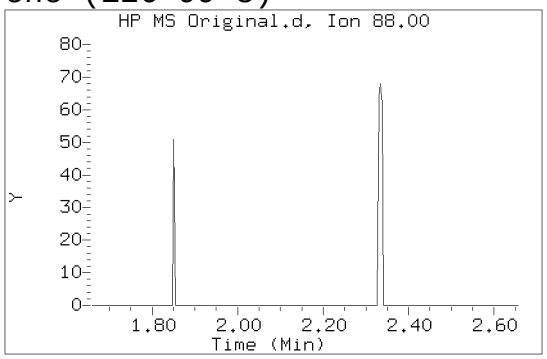
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
88
AREA
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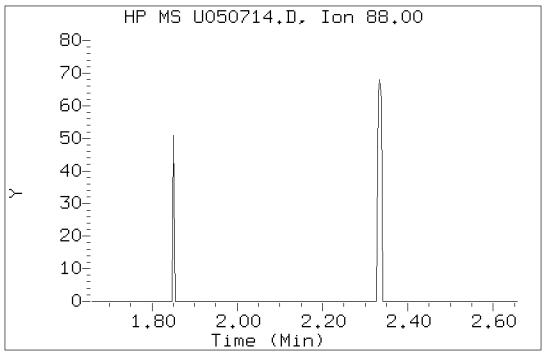
HEIGHT
0
28-May-2024
11:08
firat
tasta

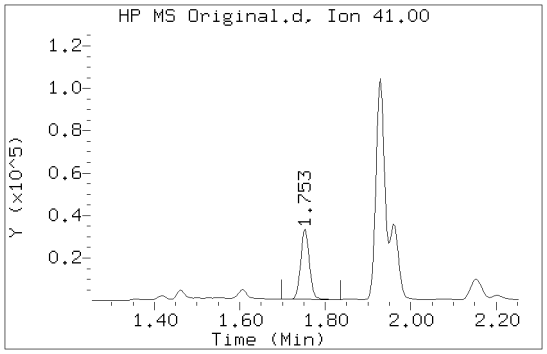


Isobutylene (115-11-7)

Reason Code:

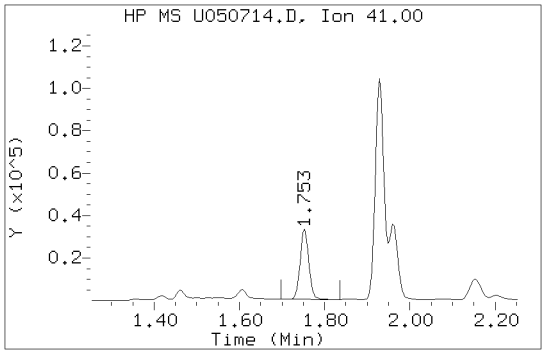
BEFORE

MASS
41
AREA
46988
HEIGHT
32981
07-May-2024
16:55
firat
tastan



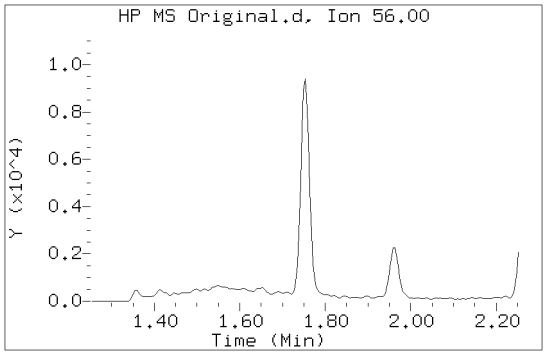
AFTER

MASS
41
AREA
46988
HEIGHT
32981
28-May-2024
11:08
firat
tasta



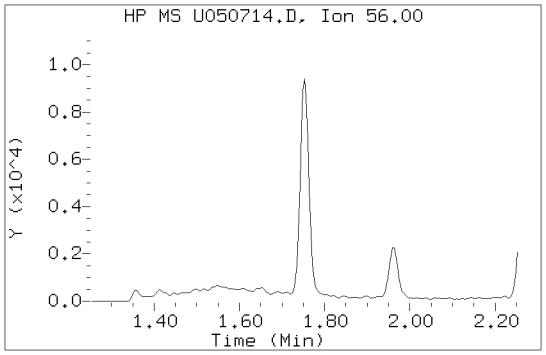
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



BEFORE

MASS
84
AREA
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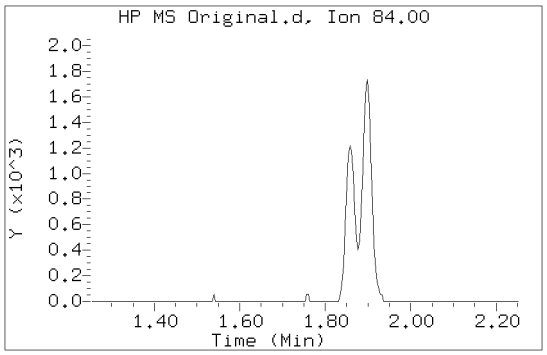
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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28-May-2024
11:08
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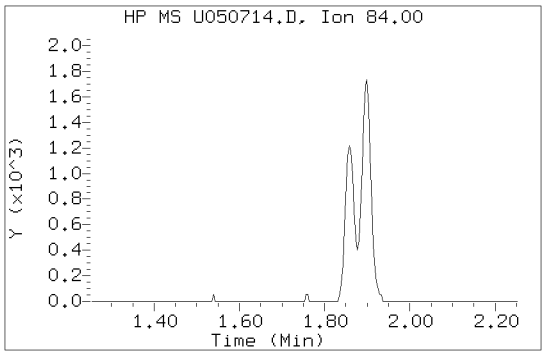


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050715.D Page 1
Report Date: 05-Jun-2024 10:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050715.D
Lab Smp Id: VLCSW-240507
Inj Date : 07-MAY-2024 16:47
Operator : RKG   Inst ID: VOA9.i
Smp Info : VLCSW-240507;VLCSW-240507;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 05-Jun-2024 10:34 r.patel   Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.D
Als bottle: 15   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	4.815	(1.000)	256268	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.164	(0.240)	33915	22.9604	22.96
3 Chloromethane	50	1.291	1.299	(0.268)	48226	23.8146	23.81
4 Propionitrile	54	4.331	4.336	(0.900)	65809	198.526	198.52(a)
5 Vinyl Chloride	62	1.370	1.378	(0.285)	46208	22.8424	22.84
6 Bromomethane	94	1.606	1.614	(0.334)	29698	27.6618	27.66
7 Chloroethane	64	1.692	1.696	(0.352)	30793	22.0213	22.02
8 Trichlorofluoromethane	101	1.891	1.899	(0.393)	53887	22.7109	22.71
9 Acrolein	56	2.258	2.266	(0.469)	3919	38.0175	38.01
10 Acetone	43	2.401	2.409	(0.499)	26730	38.3599	38.35
11 1,1-Dichloroethene	96	2.330	2.334	(0.484)	31273	23.4446	23.44
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	112828	417.313	417.31(a)
13 Acetonitrile	39	2.667	2.671	(0.554)	51320	201.979	201.97(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	121597	18.7666	18.76(a)
15 Iodomethane	142	2.461	2.469	(0.511)	59930	39.4874	39.48
16 Acrylonitrile	53	3.061	3.065	(0.636)	35316	39.8678	39.86
17 Methylene Chloride	84	2.787	2.795	(0.579)	41515	22.4276	22.42
18 Methyl tert-butyl ether	73	3.075	3.080	(0.639)	117537	19.6652	19.66
19 Carbon Disulfide	76	2.517	2.521	(0.523)	185839	46.1322	46.13
20 trans-1,2-Dichloroethene	96	3.053	3.061	(0.634)	34611	23.0462	23.04

21 Vinyl Acetate	43	4.335	4.339 (0.900)	43520	39.5165	39.51
22 1,1-Dichloroethane	63	3.510	3.515 (0.729)	65590	22.8264	22.82

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
24	2-Butanone	43	4.260	4.264	(0.885)	33356	41.2034	41.20
25	Methacrylonitrile	41	4.493	4.493	(0.933)	26682	19.1207	19.12(a)
26	2,2-Dichloropropane	77	4.178	4.182	(0.868)	37810	21.0963	21.09
27	cis-1,2-Dichloroethene	96	4.193	4.197	(0.871)	38386	22.2054	22.20
28	Chloroform	83	4.567	4.572	(0.949)	63116	21.4187	21.41
29	Bromochloromethane	128	4.466	4.467	(0.928)	19347	22.6508	22.65
$ 30	Dibromofluoromethane	113	4.744	4.748	(0.985)	95314	51.7404	51.74
31	1,1,1-Trichloroethane	97	4.740	4.744	(0.984)	47721	22.6447	22.64
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	46505	21.4704	21.47
33	1,2-Dichloroethane	62	5.171	5.175	(0.932)	51368	20.9581	20.95
34	Carbon Tetrachloride	117	4.909	4.913	(0.885)	37801	21.8463	21.84
$ 35	1,2-Dichloroethane-d4	65	5.092	5.097	(1.058)	112765	50.9619	50.96
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	376240	50.0000	
37	Benzene	78	5.137	5.138	(0.926)	145556	21.5741	21.57
38	Trichloroethene	130	5.786	5.786	(1.043)	36914	22.9330	22.93
39	Bromodichloromethane	83	6.277	6.277	(1.131)	41363	21.6006	21.60
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	17687	19.7956	19.79(a)
41	2-Chloroethylvinyl ether	63	6.626	6.630	(1.194)	361	24.9238	24.92(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	37920	21.5708	21.57
43	2-Nitropropane	43	6.506	6.506	(1.351)	9011	17.9575	17.95
44	Dibromomethane	93	6.116	6.116	(1.102)	23254	21.0057	21.00
45	4-Methyl-2-Pentanone	43	6.850	6.851	(0.837)	81855	42.8900	42.89
46	cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	48302	21.5225	21.52
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	337548	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	373462	54.8119	54.81
49	Ethyl Methacrylate	69	7.214	7.215	(1.300)	50016	18.1626	18.16(a)
50	Toluene	91	6.978	6.978	(0.853)	153912	23.0896	23.08
51	trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	38208	21.0946	21.09
52	2-Hexanone	43	7.593	7.589	(0.928)	53161	40.5612	40.56
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	29585	21.3790	21.37
54	1,3-Dichloropropane	76	7.495	7.496	(0.916)	63491	21.7950	21.79
55	Dibromochloromethane	129	7.690	7.691	(0.940)	32702	21.3134	21.31
56	Tetrachloroethene	164	7.454	7.454	(0.911)	29070	23.3898	23.38
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	34416	22.1790	22.17
58	1-Chlorohexane	55	8.196	8.197	(1.477)	34725	21.7735	21.77
59	Chlorobenzene	112	8.207	8.208	(1.003)	99100	21.3893	21.38
60	1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	31961	21.7977	21.79
61	Ethylbenzene	106	8.305	8.305	(1.015)	49535	22.6430	22.64
62	m,p-Xylenes	106	8.406	8.407	(1.027)	126002	47.6391	47.63
63	o-Xylene	106	8.747	8.744	(1.069)	62478	23.6501	23.65
64	Styrene	104	8.759	8.759	(1.070)	107906	24.1697	24.16
66	Bromoform	173	8.916	8.916	(1.089)	19178	20.7129	20.71
67	Isopropylbenzene	105	9.062	9.063	(1.107)	155011	24.4015	24.40
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	50182	22.3815	22.38
$ 69	4-Bromofluorobenzene	95	9.193	9.190	(1.123)	136915	54.2556	54.25
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178344	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	47094	20.7331	20.73
72	trans-1,4-Dichloro-2-butene	53	9.377	9.378	(1.146)	10246	21.6395	21.63(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	177196	24.6640	24.66
74	Bromobenzene	156	9.317	9.318	(0.916)	42885	22.1549	22.15
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	123541	23.7898	23.78
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	112291	23.1035	23.10

77	4-Chlorotoluene	91	9.576	9.576 (0.942)	125876	23.0077	23.00
78	tert-Butylbenzene	119	9.834	9.835 (0.967)	106936	24.5306	24.53

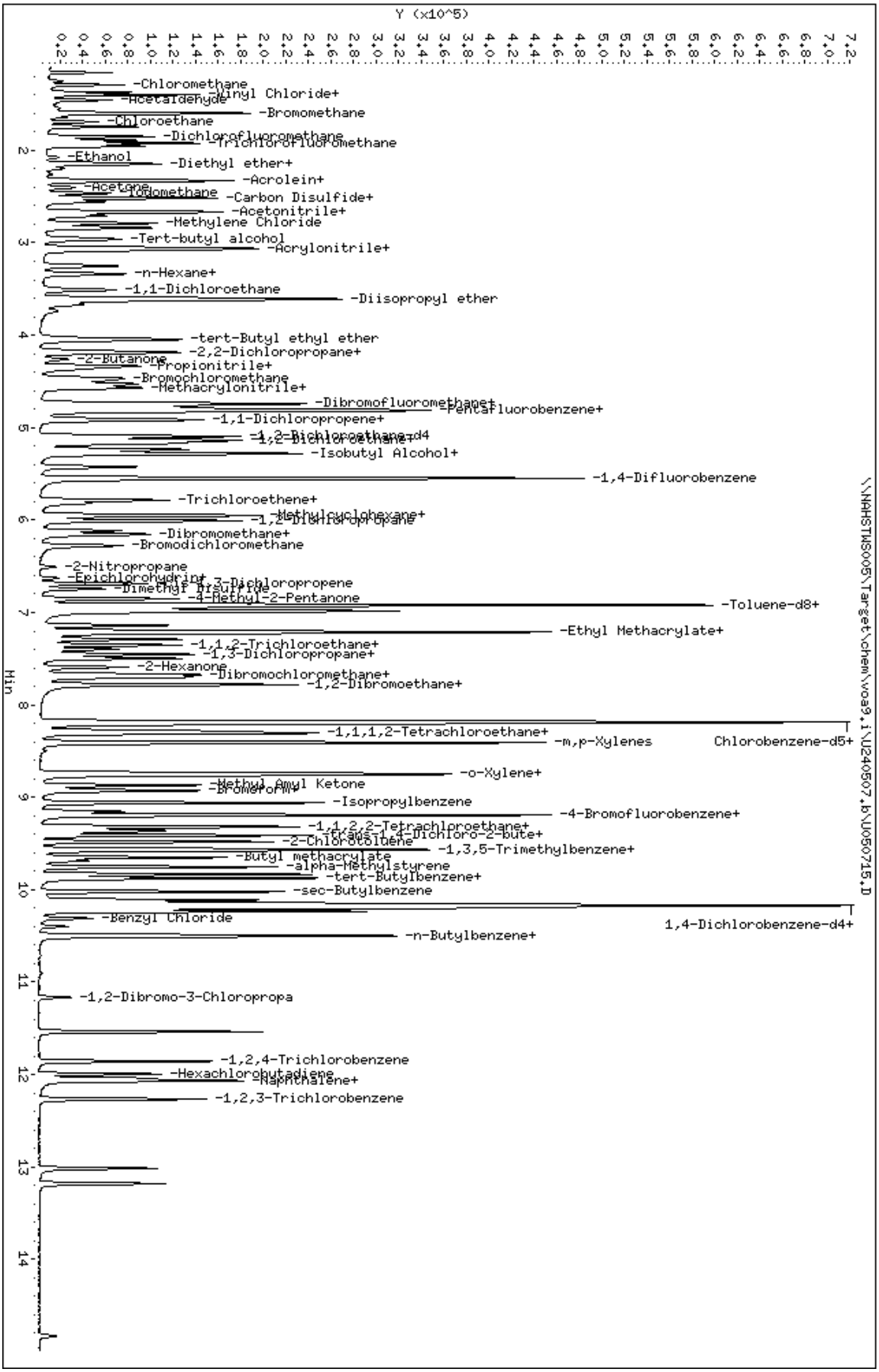
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	122852	24.1646	24.16(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	141836	24.6912	24.69
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	125617	25.1073	25.10
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	74962	22.1439	22.14
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	78569	22.7517	22.75
86	Benzyl Chloride	91	10.310	10.311	(1.260)	30640	17.5571	17.55
87	n-Butylbenzene	91	10.490	10.491	(1.032)	105846	23.0393	23.03
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	75816	22.8705	22.87
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	5121	19.1046	19.10
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	47056	23.3538	23.35
91	Hexachlorobutadiene	225	11.997	11.998	(1.180)	20072	23.2235	23.22
92	Naphthalene	128	12.065	12.065	(1.187)	120476	21.8872	21.88
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	45381	22.5834	22.58
146	Methyl acetate	43	2.708	2.712	(0.562)	61200	20.2408	20.24
138	Freon TF	101	2.330	2.337	(0.484)	30494	22.3642	22.36
141	Cyclohexane	56	4.781	4.785	(0.993)	57419	22.8928	22.89
142	Tetrahydrofuran	42	4.537	4.542	(0.942)	17350	40.9417	40.94
147	Methylcyclohexane	55	5.943	5.947	(1.071)	102683	22.0717	22.07
135	1,4-Dioxane	88	6.164	6.165	(1.280)	10316	366.740	366.74
132	n-Butanol	56	5.820	5.820	(1.209)	25057	364.420	364.41(a)
136	n-Hexane	57	3.338	3.342	(0.693)	35961	21.7138	21.71
139	Diethyl ether	59	2.138	2.146	(0.444)	34829	19.3693	19.36
148	Tert-butyl alcohol	59	2.959	2.964	(0.615)	76963	389.527	389.52
149	Isopropyl alcohol	45	2.554	2.559	(0.531)	62429	378.787	378.78
152	Amyl alcohol	42	7.398	7.394	(0.904)	26775	379.883	379.88
156	Diisopropyl ether	45	3.615	3.620	(0.751)	149957	20.6870	20.68
162	Butyl acrylate	55	8.732	8.733	(1.067)	71604	19.3066	19.30
187	n-Amyl acetate	43	8.931	8.931	(1.091)	71816	20.6989	20.69
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	194546	22.0567	22.05
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	146953	22.2025	22.20
167	Ethanol	45	2.078	2.083	(0.432)	11754	377.179	377.17
172	tert-Butyl formate	59	5.238	5.239	(1.088)	66419	36.3110	36.31
173	3,3-Dimethyl-1-butanol	57	7.780	7.781	(0.951)	88530	391.658	391.65
174	tert-Amyl methyl ether	73	5.283	5.284	(1.097)	124837	21.5797	21.57
175	tert-Butyl ethyl ether	59	4.046	4.051	(0.840)	124069	21.1251	21.12
176	tert-Amyl alcohol	59	5.238	5.239	(1.088)	66419	377.678	377.67
151	4-Methyl-2-pentanol	45	7.214	7.215	(1.300)	240417	378.112	378.11
140	1,3-Butadiene	54	1.396	1.404	(0.290)	37896	22.8257	22.82
158	Dichlorofluoromethane	67	1.853	1.858	(0.385)	73461	20.1968	20.19
182	Epichlorohydrin	57	6.629	6.630	(1.195)	11309	70.3960	70.39
M 94	1,2-Dichloroethylene (total)	96				72997	45.1892	45.18
M 95	Xylenes (total)	106				188480	70.7578	70.75
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	58595	22.4095	22.40
130	Ethyl Acetate	43	4.335	4.339	(0.900)	43520	19.9003	19.90
131	Methyl Acrylate	55	4.365	4.369	(0.907)	53349	20.2993	20.29
189	n-Butyl acetate	43	7.705	7.706	(0.941)	63919	20.6547	20.65
134	Cyclohexanone	55	9.152	9.153	(0.900)	31721	374.989	374.98(a)
185	Isoprene	39	2.153	2.158	(0.447)	9170	22.2241	22.22
188	Isopropyl acetate	43	5.280	5.284	(0.951)	114950	21.5690	21.56
150	Allyl alcohol	57	3.338	3.342	(0.693)	35961	434.277	434.27
194	Acetaldehyde	44	1.456	1.460	(0.302)	78869	189.915	189.91
195	Methyl Amyl Ketone	43	8.867	8.868	(1.083)	84984	19.4500	19.44

200 Dimethyl Disulfide	94	6.742	6.746 (0.824)	21122	19.0255	19.02
133 Ethyl Acrylate	55	5.943	5.947 (1.234)	102683	21.9487	21.94

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.651	9.647	(0.949)	44596	19.3115	19.31
159 Propylene oxide	43	2.195	2.199	(0.456)	6584	38.2076	38.20
203 2-Ethylhexyl Acrylate	55	12.042	12.043	(1.184)	41413	20.9628	20.96

QC Flag Legend

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



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Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050715.D
Inj Date : 07-MAY-2024 16:47
InstruID : VOA9.i
LabSampID : VLCSW-240507

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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05-Jun-2024
10:38
rucha
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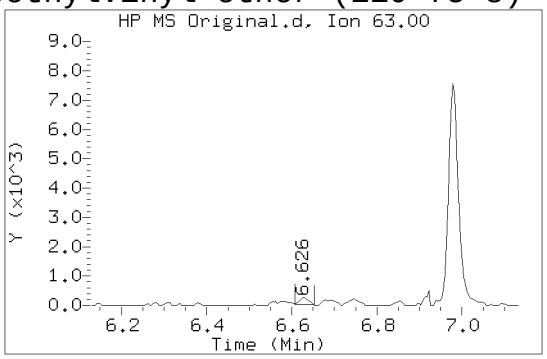

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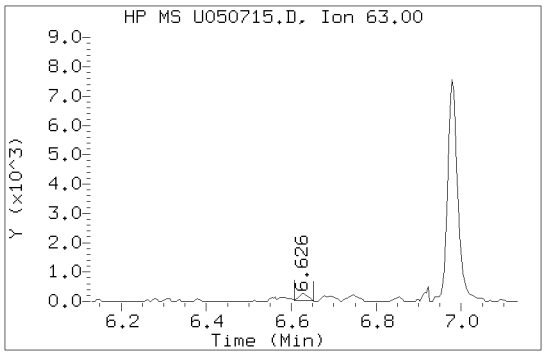

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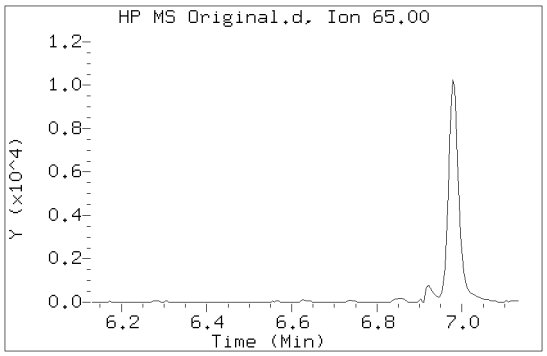

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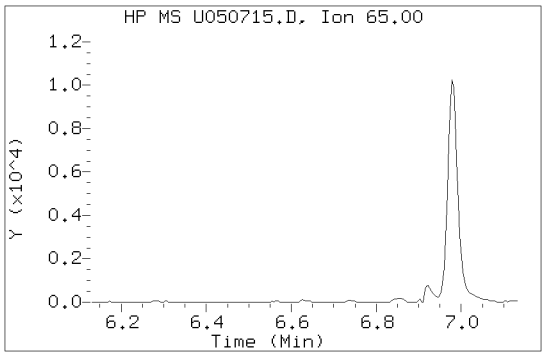

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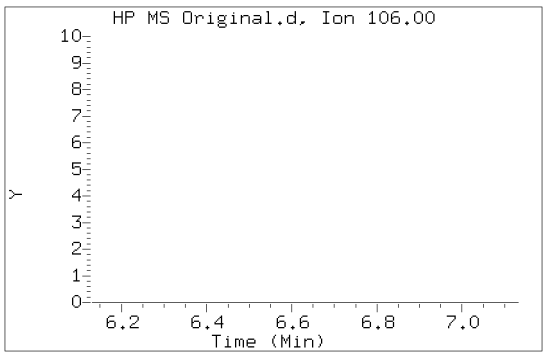

AFTER

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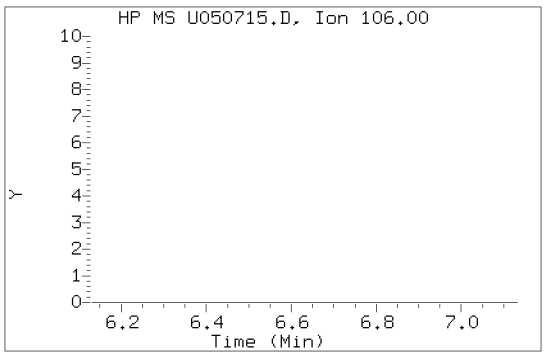

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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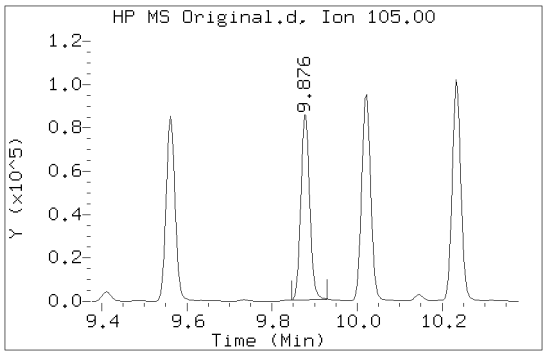

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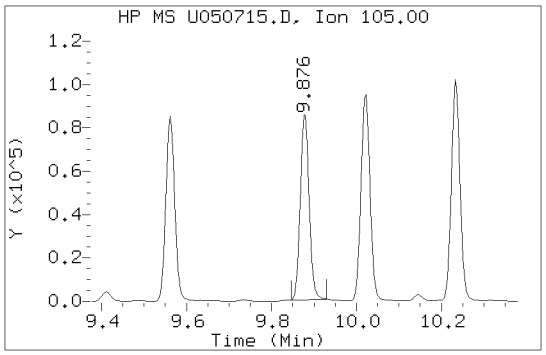

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Inj Date : 07-MAY-2024 16:47
InstruID : VOA9.i
LabSampID : VLCSW-240507

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

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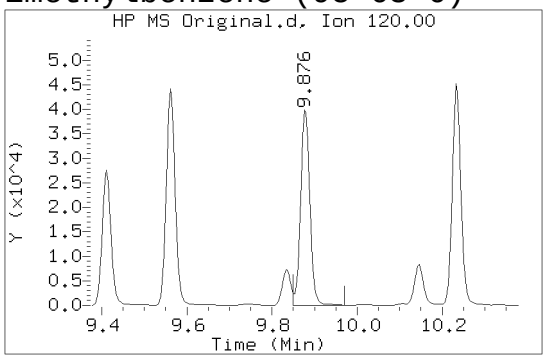
10:38
rucha
patel



AFTER

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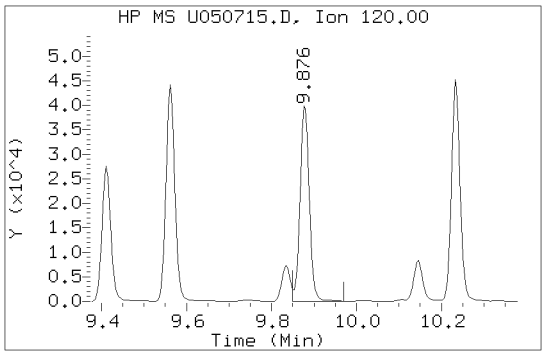

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050717.D Page 1
Report Date: 05-Jun-2024 10:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050717.D
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Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240507;VBLKW-240507;3;;BLANK
Misc Info : V9;WATER;0;1;
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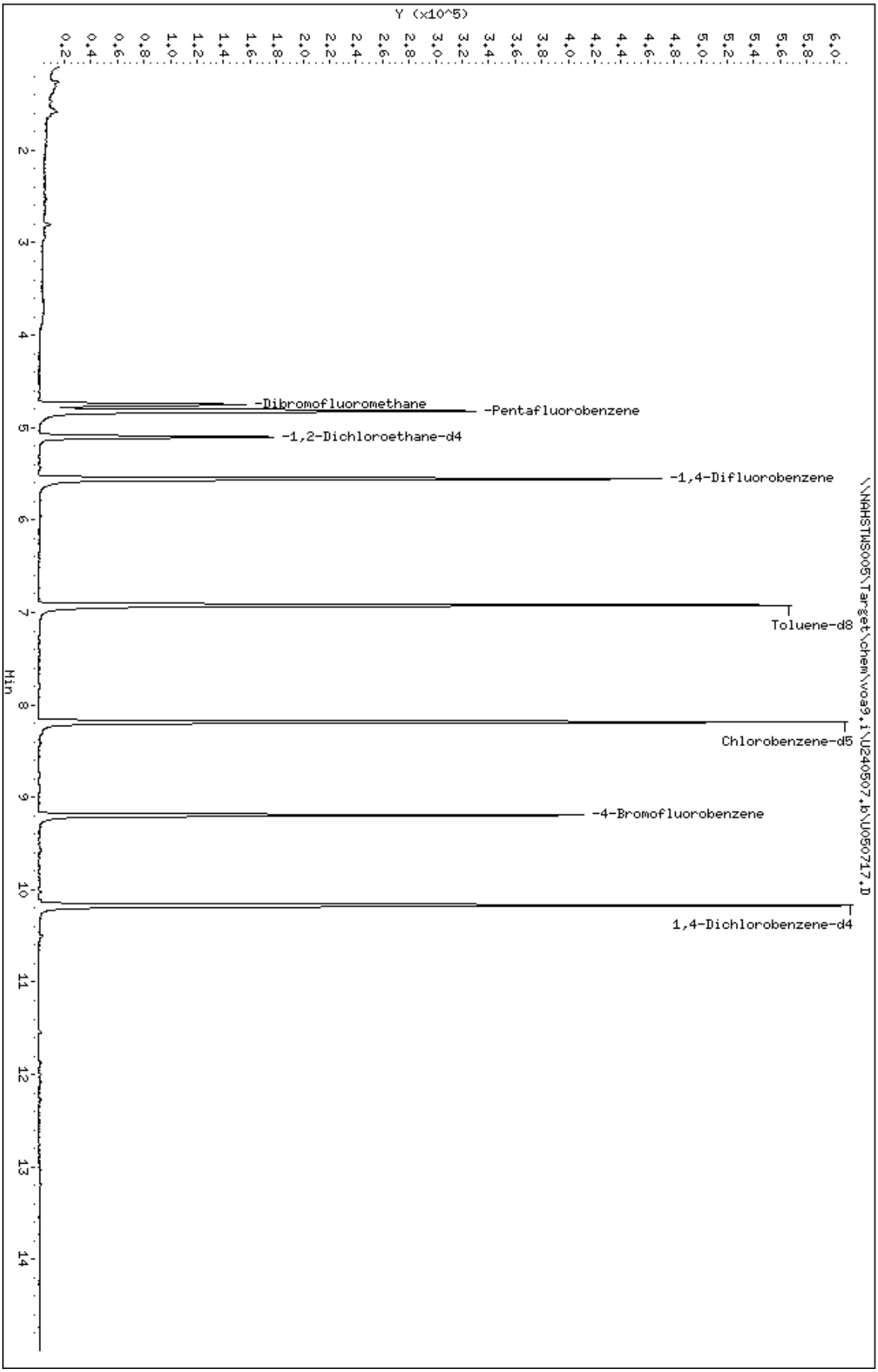
Meth Date : 05-Jun-2024 10:34 r.patel Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20 Cal File: U050711.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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	4.819	4.815	(1.000)	253017	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	92071	50.5757	50.57
$ 35 1,2-Dichloroethane-d4	65	5.100	5.097	(1.058)	114923	52.7076	52.70
* 36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	373254	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	331950	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	366160	54.6412	54.64
$ 69 4-Bromofluorobenzene	95	9.193	9.190	(1.123)	129329	52.0403	52.04
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165476	50.0000	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Date : 07-MAY-2024 17:30
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Sample Info: VBLKW-240507;VBLKW-240507;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050717.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050717.D
Inj Date : 07-MAY-2024 17:30
InstruID : VOA9.i
LabSampID : VBLKW-240507

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050719.D Page 1
Report Date: 06-Jun-2024 10:31

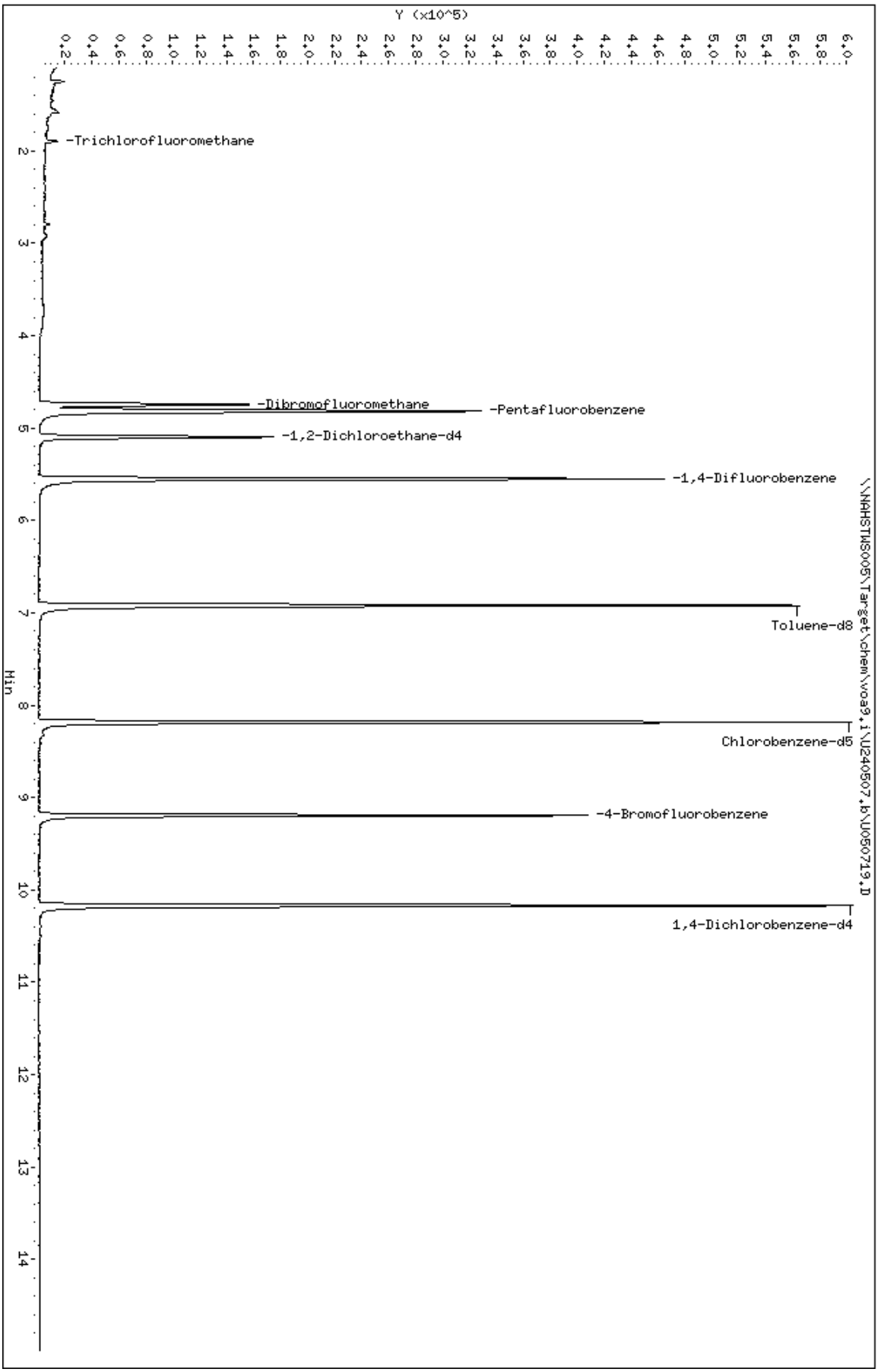
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050719.D
Lab Smp Id: HS24050146-02
Inj Date : 07-MAY-2024 18:13
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050146-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 06-Jun-2024 10:28 s.zaid   Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.D
Als bottle: 19
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	4.819	(1.000)	250197	50.0000	
	8 Trichlorofluoromethane	101	1.895	1.902	(0.394)	6278	2.59234	2.59
$	30 Dibromofluoromethane	113	4.748	4.751	(0.986)	91219	50.6766	50.67
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	115451	53.5975	53.59
*	36 1,4-Difluorobenzene	114	5.550	5.553	(1.000)	367868	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	328056	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	361218	54.5404	54.54
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	125747	51.1695	51.16
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159677	50.0000	



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Date : 07-MAY-2024 18:13
Client ID:
Sample Info: HS24050146-02
Purge Volume: 5.0
Column phase: DB624

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

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050719.D

Date : 07-MAY-2024 18:13

Client ID:

Instrument: VOA9.i

Sample Info: HS24050146-02

Purge Volume: 5.0

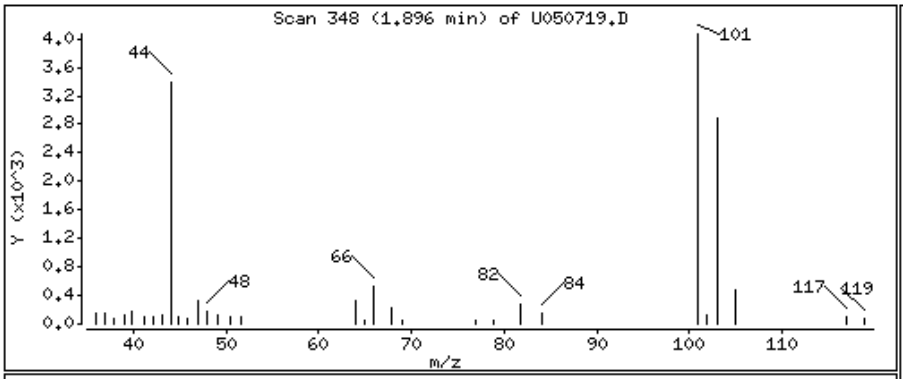
Operator: FT

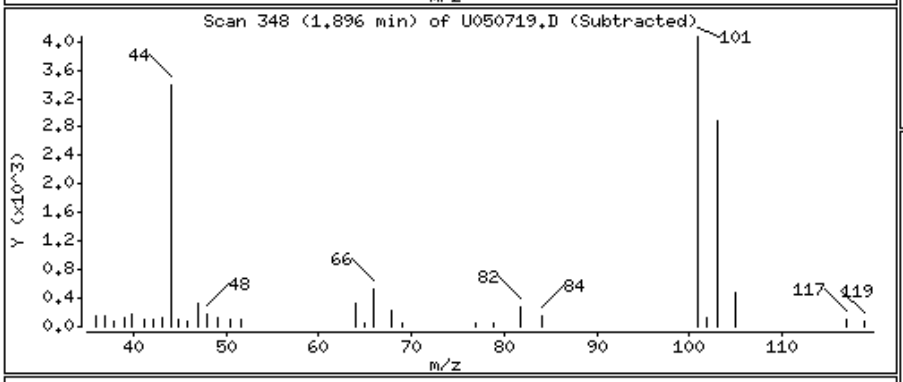
Column phase: DB624

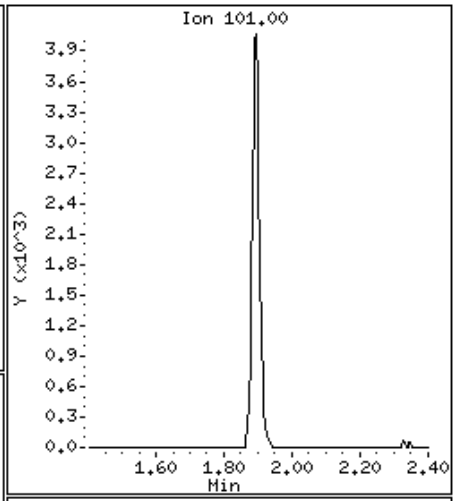
Column diameter: 0.18

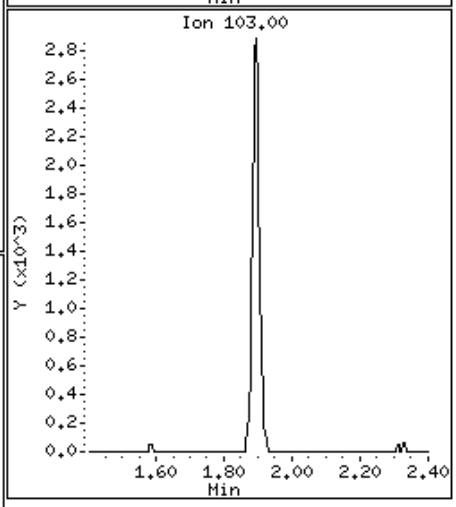
8 Trichlorofluoromethane

Concentration: 2.59 ug/l









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Inj Date : 07-MAY-2024 18:13
InstruID : VOA9.i
LabSampID : HS24050146-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050721.D Page 1
Report Date: 05-Jun-2024 10:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050721.D
Lab Smp Id: HS24041977-09MS Client Smp ID: HS24041977-09MS
Inj Date : 07-MAY-2024 18:56
Operator : FT Inst ID: VOA9.i
Smp Info : HS24041977-09MS;HS24041977-09MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 05-Jun-2024 10:34 r.patel Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20 Cal File: U050711.D
Als bottle: 21 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	4.815	4.815	(1.000)	257027	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.164	(0.243)	32469	21.9295	21.92
3	Chloromethane	50	1.303	1.299	(0.271)	44904	22.0483	22.04
4	Propionitrile	54	4.335	4.336	(0.900)	46622	135.629	135.62(a)
5	Vinyl Chloride	62	1.381	1.378	(0.287)	42440	20.9161	20.91
6	Bromomethane	94	1.614	1.614	(0.335)	28070	26.0261	26.02
7	Chloroethane	64	1.700	1.696	(0.353)	28449	20.2367	20.23
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	49237	20.6848	20.68
9	Acrolein	56	2.266	2.266	(0.471)	3006	27.5693	27.56
10	Acetone	43	2.409	2.409	(0.500)	20930	28.8777	28.87
11	1,1-Dichloroethene	96	2.337	2.334	(0.485)	27154	20.2671	20.26
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	82630	304.718	304.71(a)
13	Acetonitrile	39	2.675	2.671	(0.555)	41241	161.832	161.83(a)
14	Allyl Chloride	41	2.675	2.671	(0.555)	94778	14.5843	14.58(a)
15	Iodomethane	142	2.472	2.469	(0.513)	44072	29.5076	29.50
16	Acrylonitrile	53	3.065	3.065	(0.636)	26154	28.2844	28.28
17	Methylene Chloride	84	2.798	2.795	(0.581)	33387	17.4135	17.41
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	85394	14.2451	14.24
19	Carbon Disulfide	76	2.525	2.521	(0.524)	160732	39.7818	39.78
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	30386	20.1352	20.13

21 Vinyl Acetate	43	4.339	4.339 (0.901)	31580	28.5902	28.59
22 1,1-Dichloroethane	63	3.514	3.515 (0.730)	56457	19.5505	19.55

								CONCENTRATIONS	
			QUANT SIG					ON-COLUMN	FINAL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.264	4.264	(0.886)	26420	32.5392	32.53
	25	Methacrylonitrile	41	4.497	4.493	(0.934)	31402	22.4367	22.43(a)
	26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	33729	18.8270	18.82
	27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	32644	18.8186	18.81
	28	Chloroform	83	4.575	4.572	(0.950)	53525	18.1104	18.11
	29	Bromochloromethane	128	4.467	4.467	(0.928)	16589	19.2544	19.25
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	94738	51.2566	51.25
	31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	40469	19.1467	19.14
	32	1,1-Dichloropropene	75	4.924	4.920	(0.887)	41015	19.2339	19.23
	33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	43865	18.1786	18.17
	34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	33072	19.4748	19.47
$	35	1,2-Dichloroethane-d4	65	5.096	5.097	(1.058)	116260	52.4757	52.47
*	36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	370408	50.0000	
	37	Benzene	78	5.138	5.138	(0.925)	124675	18.7701	18.77
	38	Trichloroethene	130	5.790	5.786	(1.043)	44452	28.0442	28.04
	39	Bromodichloromethane	83	6.277	6.277	(1.130)	33336	17.6829	17.68
	40	Methyl Methacrylate	41	5.824	5.820	(1.209)	10993	12.2673	12.26(a)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	33106	19.1458	19.14
	43	2-Nitropropane	43	6.506	6.506	(1.351)	4963	9.86129	9.86
	44	Dibromomethane	93	6.120	6.116	(1.102)	19157	17.5773	17.57
	45	4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	62116	32.9513	32.95
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	37026	17.0327	17.03
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	333409	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	370382	55.0418	55.04
	49	Ethyl Methacrylate	69	7.214	7.215	(1.299)	31487	11.6141	11.61(a)
	50	Toluene	91	6.982	6.978	(0.853)	130991	19.8950	19.89
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	29468	16.8589	16.85
	52	2-Hexanone	43	7.589	7.589	(0.927)	38440	30.6425	30.64
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	24217	17.7172	17.71
	54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	52546	18.2618	18.26
	55	Dibromochloromethane	129	7.690	7.691	(0.940)	25368	17.2659	17.26
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	25403	20.6927	20.69
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	27447	17.9075	17.90
	58	1-Chlorohexane	55	8.193	8.197	(1.475)	26511	16.5538	16.55
	59	Chlorobenzene	112	8.208	8.208	(1.003)	83760	18.3028	18.30
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25931	18.2527	18.25
	61	Ethylbenzene	106	8.305	8.305	(1.015)	41869	19.3764	19.37
	62	m,p-Xylenes	106	8.406	8.407	(1.027)	105563	40.4069	40.40
	63	o-Xylene	106	8.744	8.744	(1.068)	52223	20.0136	20.01
	64	Styrene	104	8.763	8.759	(1.071)	88310	20.0260	20.02
	66	Bromoform	173	8.916	8.916	(1.089)	14326	16.0889	16.08
	67	Isopropylbenzene	105	9.059	9.063	(1.107)	130212	20.7521	20.75
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	39913	17.9586	17.95
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	135396	54.3219	54.32
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	177592	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	37076	16.3918	16.39
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.378	(1.145)	7253	15.7506	15.75(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	149431	20.8875	20.88
	74	Bromobenzene	156	9.317	9.318	(0.916)	35220	18.2721	18.27
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	105049	20.3145	20.31
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	90780	18.7567	18.75
	77	4-Chlorotoluene	91	9.576	9.576	(0.942)	106897	19.6214	19.62

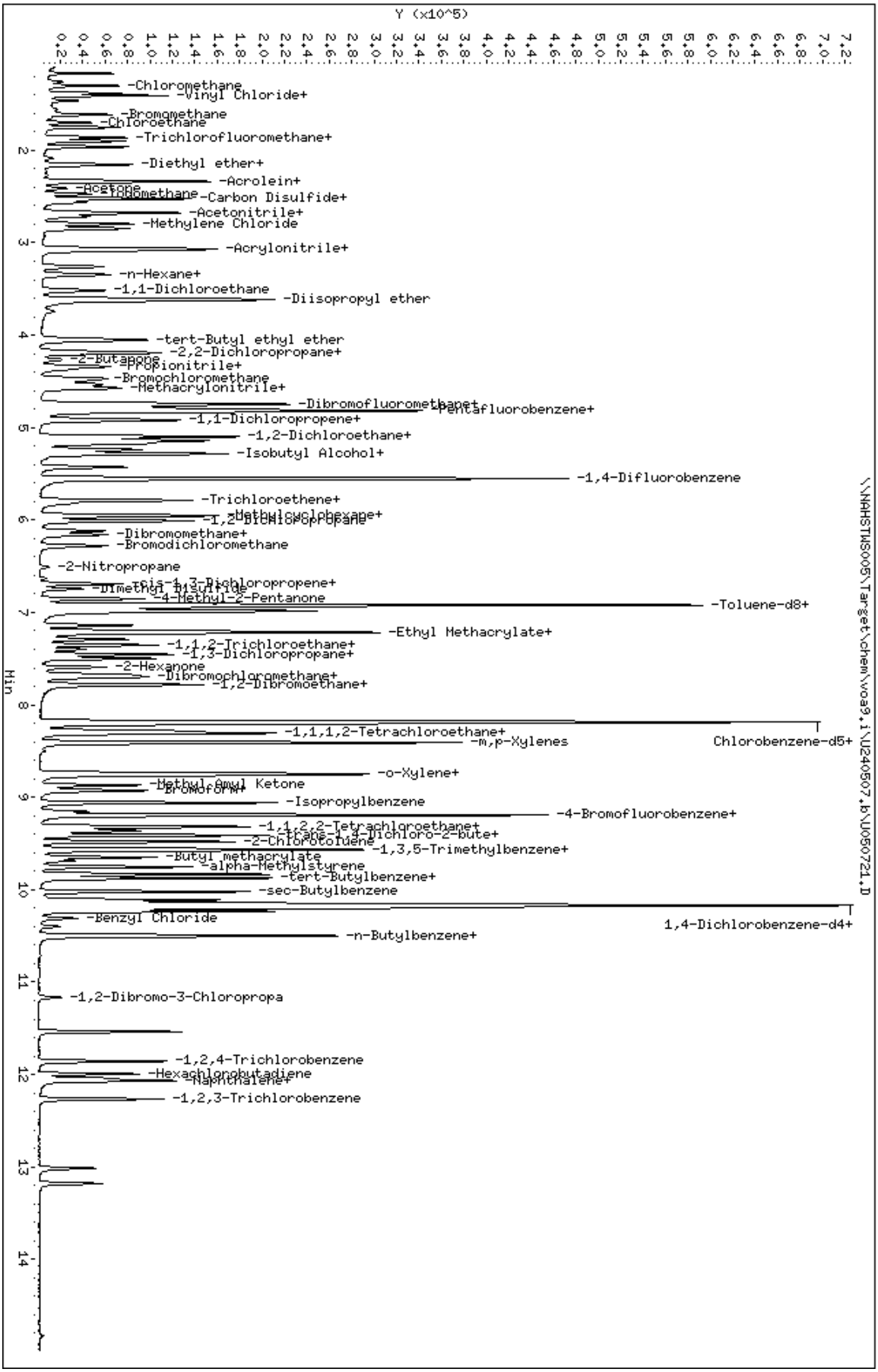
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	89991	20.7309	20.73
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	104266	20.5956	20.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	119185	20.8359	20.83
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	103901	20.8549	20.85
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	62791	18.6271	18.62
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	65482	19.1157	19.11
86	Benzyl Chloride	91	10.311	10.311	(1.260)	21403	13.3373	13.33
87	n-Butylbenzene	91	10.491	10.491	(1.032)	88511	19.4837	19.48
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	62558	19.0169	19.01
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3686	14.3910	14.39
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	35582	17.9660	17.96
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	16083	18.6870	18.68
92	Naphthalene	128	12.065	12.065	(1.187)	83370	15.8709	15.87
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	34048	17.0154	17.01
146	Methyl acetate	43	2.712	2.712	(0.563)	45503	14.5310	14.53
138	Freon TF	101	2.341	2.337	(0.486)	28564	20.8868	20.88
141	Cyclohexane	56	4.785	4.785	(0.994)	46071	18.2638	18.26
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11359	25.5508	25.55
147	Methylcyclohexane	55	5.947	5.947	(1.071)	74151	16.1897	16.18
135	1,4-Dioxane	88	6.168	6.165	(1.281)	6947	241.444	241.44
132	n-Butanol	56	5.824	5.820	(1.209)	14664	212.638	212.63(a)
136	n-Hexane	57	3.346	3.342	(0.695)	30116	18.1320	18.13
139	Diethyl ether	59	2.146	2.146	(0.446)	25227	13.9879	13.98
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	41701	241.584	241.58
152	Amyl alcohol	42	7.398	7.394	(0.904)	15127	220.574	220.57
156	Diisopropyl ether	45	3.619	3.620	(0.752)	112733	15.5059	15.50
162	Butyl acrylate	55	8.733	8.733	(1.067)	41330	11.9253	11.92
187	n-Amyl acetate	43	8.931	8.931	(1.091)	46034	13.4327	13.43
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	167039	19.0075	19.00
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	105507	16.0081	16.00
167	Ethanol	45	2.086	2.083	(0.433)	8002	242.836	242.83
172	tert-Butyl formate	59	5.239	5.239	(1.088)	37945	20.6831	20.68
173	3,3-Dimethyl-1-butanol	57	7.780	7.781	(0.951)	54494	249.876	249.87
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	84246	14.5200	14.51
175	tert-Butyl ethyl ether	59	4.050	4.051	(0.841)	91183	15.4798	15.47
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	37945	215.129	215.12
151	4-Methyl-2-pentanol	45	7.214	7.215	(1.299)	150429	253.002	253.00
140	1,3-Butadiene	54	1.408	1.404	(0.292)	30671	18.4193	18.41
158	Dichlorofluoromethane	67	1.861	1.858	(0.387)	56820	15.5755	15.57
182	Epichlorohydrin	57	6.633	6.630	(1.194)	4374	27.6559	27.65
M 94	1,2-Dichloroethylene (total)	96				63030	38.8548	38.85
M 95	Xylenes (total)	106				157786	60.1675	60.16
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	37873	15.2650	15.26
130	Ethyl Acetate	43	4.339	4.339	(0.901)	31580	14.3979	14.39
131	Methyl Acrylate	55	4.369	4.369	(0.907)	34231	12.6721	12.67
189	n-Butyl acetate	43	7.705	7.706	(0.941)	42643	14.9085	14.90
134	Cyclohexanone	55	9.152	9.153	(0.900)	18774	221.993	221.99(a)
185	Isoprene	39	2.161	2.158	(0.449)	7570	18.2922	18.29
188	Isopropyl acetate	43	5.284	5.284	(0.951)	82950	15.8096	15.80
150	Allyl alcohol	57	3.346	3.342	(0.695)	30116	362.641	362.64
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	52523	13.0634	13.06
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	14225	13.6956	13.69
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	74151	15.8031	15.80
163	Butyl methacrylate	41	9.647	9.647	(0.949)	28251	12.2854	12.28

203 2-Ethylhexyl Acrylate	55	12.039	12.043 (1.184)	28325	15.0345	15.03

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Client ID: HS24041977-09MS
Sample Info: HS24041977-09MS;HS24041977-09MS;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\U240507.b\U050721.D
Inj Date : 07-MAY-2024 18:56
InstruID : VOA9.i
LabSampID : HS24041977-09MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050722.D Page 1
Report Date: 05-Jun-2024 10:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050722.D
Lab Smp Id: HS24041977-09MSD Client Smp ID: HS24041977-09MSD
Inj Date : 07-MAY-2024 19:17
Operator : FT Inst ID: VOA9.i
Smp Info : HS24041977-09MSD;HS24041977-09MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 05-Jun-2024 10:34 r.patel Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20 Cal File: U050711.D
Als bottle: 21 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	4.819	4.815	(1.000)	254251	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.164	(0.243)	31140	21.2698	21.26
3 Chloromethane	50	1.306	1.299	(0.271)	41721	20.6563	20.65
4 Propionitrile	54	4.339	4.336	(0.900)	49541	146.857	146.85(a)
5 Vinyl Chloride	62	1.385	1.378	(0.288)	40233	20.0434	20.04
6 Bromomethane	94	1.614	1.614	(0.335)	24540	22.9165	22.91
7 Chloroethane	64	1.700	1.696	(0.353)	27911	20.0657	20.06
8 Trichlorofluoromethane	101	1.902	1.899	(0.395)	46364	19.6872	19.68
9 Acrolein	56	2.270	2.266	(0.471)	3136	29.4253	29.42
10 Acetone	43	2.416	2.409	(0.501)	23830	33.9746	33.97
11 1,1-Dichloroethene	96	2.337	2.334	(0.485)	25586	19.2934	19.29
12 Isobutyl Alcohol	43	5.288	5.284	(1.097)	83242	310.326	310.32(a)
13 Acetonitrile	39	2.678	2.671	(0.556)	41136	163.182	163.18(a)
14 Allyl Chloride	41	2.678	2.671	(0.556)	95371	14.8358	14.83(a)
15 Iodomethane	142	2.476	2.469	(0.514)	46030	31.0495	31.04
16 Acrylonitrile	53	3.072	3.065	(0.638)	26735	29.3755	29.37
17 Methylene Chloride	84	2.802	2.795	(0.582)	32538	17.1134	17.11
18 Methyl tert-butyl ether	73	3.083	3.080	(0.640)	85777	14.4652	14.46
19 Carbon Disulfide	76	2.525	2.521	(0.524)	152912	38.2596	38.25
20 trans-1,2-Dichloroethene	96	3.065	3.061	(0.636)	28122	18.8176	18.81

21 Vinyl Acetate	43	4.347	4.339 (0.902)	31953	29.2437	29.24
22 1,1-Dichloroethane	63	3.518	3.515 (0.730)	53998	18.8940	18.89

	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	4.264	(0.886)	27852	34.6774	34.67
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	19689	14.2213	14.22(a)
	26 2,2-Dichloropropane	77	4.185	4.182	(0.869)	32140	18.1559	18.15
	27 cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	32529	18.9575	18.95
	28 Chloroform	83	4.575	4.572	(0.949)	51441	17.5953	17.59
	29 Bromochloromethane	128	4.470	4.467	(0.928)	16227	19.0314	19.03
$	30 Dibromofluoromethane	113	4.751	4.748	(0.986)	95013	51.9964	51.99
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	39090	18.6962	18.69
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	38595	17.9280	17.92
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	43726	17.9498	17.94
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	30877	18.0482	18.04
$	35 1,2-Dichloroethane-d4	65	5.100	5.097	(1.058)	114857	52.4043	52.40
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	373941	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	119148	17.7685	17.76
	38 Trichloroethene	130	5.790	5.786	(1.043)	41657	26.0367	26.03
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	33291	17.4922	17.49
	40 Methyl Methacrylate	41	5.827	5.820	(1.209)	12374	13.9591	13.95(a)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	31934	18.3003	18.30
	43 2-Nitropropane	43	6.510	6.506	(1.351)	5549	11.1460	11.14
	44 Dibromomethane	93	6.120	6.116	(1.102)	19217	17.4658	17.46
	45 4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	64824	34.2729	34.27
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	37338	17.0152	17.01
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	334527	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	370898	54.9308	54.93
	49 Ethyl Methacrylate	69	7.214	7.215	(1.299)	35515	12.9761	12.97(a)
	50 Toluene	91	6.982	6.978	(0.853)	125552	19.0052	19.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	29175	16.5624	16.56
	52 2-Hexanone	43	7.593	7.589	(0.928)	43267	33.9436	33.94
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	24123	17.5894	17.58
	54 1,3-Dichloropropane	76	7.499	7.496	(0.916)	53052	18.3760	18.37
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	24969	16.9842	16.98
	56 Tetrachloroethene	164	7.458	7.454	(0.911)	24312	19.7362	19.73
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	28270	18.3828	18.38
	58 1-Chlorohexane	55	8.196	8.197	(1.476)	26426	16.3256	16.32
	59 Chlorobenzene	112	8.208	8.208	(1.003)	81826	17.8204	17.82
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25408	17.8704	17.87
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40561	18.7083	18.70
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	101694	38.7959	38.79
	63 o-Xylene	106	8.748	8.744	(1.069)	51189	19.5518	19.55
	64 Styrene	104	8.763	8.759	(1.071)	87072	19.6793	19.67
	66 Bromoform	173	8.916	8.916	(1.089)	14550	16.2653	16.26
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	127017	20.1753	20.17
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.325	(0.917)	40354	17.7348	17.73
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	138182	55.2863	55.28
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	181873	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	38650	16.6855	16.68
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.378	(1.146)	7320	15.8384	15.83(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	145085	19.8026	19.80
	74 Bromobenzene	156	9.317	9.318	(0.916)	34969	17.7149	17.71
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	103374	19.5200	19.52
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	91654	18.4916	18.49
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	104848	18.7923	18.79

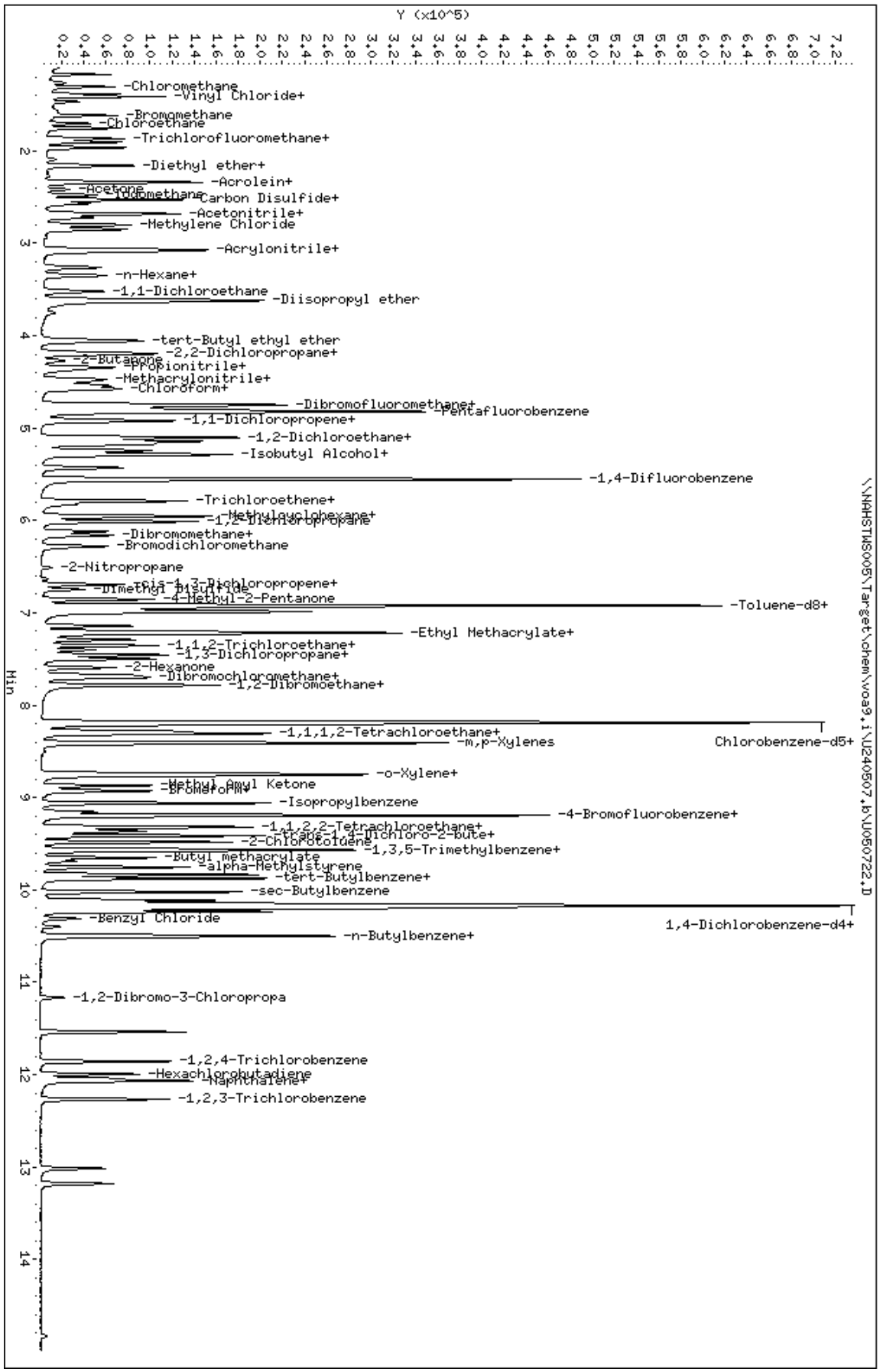
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	86288	19.4099	19.40
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	102994	19.8655	19.86

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	115321	19.6859	19.68
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	103925	20.3687	20.36
83	1,3-Dichlorobenzene	146	10.116	10.112	(0.995)	61222	17.7341	17.73
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	65648	18.7225	18.72
86	Benzyl Chloride	91	10.311	10.311	(1.260)	22931	14.0314	14.03
87	n-Butylbenzene	91	10.491	10.491	(1.032)	87487	18.8332	18.83
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	62136	18.4556	18.45
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	4284	16.0529	16.05
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	36904	18.1832	18.18
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	16626	18.8632	18.86
92	Naphthalene	128	12.065	12.065	(1.187)	92586	17.0277	17.02
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	35718	17.4298	17.42
146	Methyl acetate	43	2.720	2.712	(0.564)	47435	15.4120	15.41
138	Freon TF	101	2.341	2.337	(0.486)	26930	19.9070	19.90
141	Cyclohexane	56	4.785	4.785	(0.993)	44611	17.8728	17.87
142	Tetrahydrofuran	42	4.545	4.542	(0.943)	12076	27.7130	27.71
147	Methylcyclohexane	55	5.951	5.947	(1.072)	73701	15.9394	15.93
135	1,4-Dioxane	88	6.168	6.165	(1.280)	8067	285.970	285.97
132	n-Butanol	56	5.827	5.820	(1.209)	17596	257.940	257.94(a)
136	n-Hexane	57	3.349	3.342	(0.695)	28417	17.2949	17.29
139	Diethyl ether	59	2.154	2.146	(0.447)	25011	14.0196	14.01
149	Isopropyl alcohol	45	2.570	2.559	(0.533)	47044	280.008	280.00
152	Amyl alcohol	42	7.398	7.394	(0.904)	18698	270.118	270.11
156	Diisopropyl ether	45	3.627	3.620	(0.753)	112089	15.5857	15.58
162	Butyl acrylate	55	8.733	8.733	(1.067)	44027	12.5693	12.56
187	n-Amyl acetate	43	8.931	8.931	(1.091)	48131	13.9977	13.99
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	161006	17.8852	17.88
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	105385	15.6133	15.61
167	Ethanol	45	2.090	2.083	(0.434)	8945	279.755	279.75
172	tert-Butyl formate	59	5.243	5.239	(1.088)	49774	27.4271	27.42
173	3,3-Dimethyl-1-butanol	57	7.780	7.781	(0.951)	61842	280.604	280.60
174	tert-Amyl methyl ether	73	5.288	5.284	(1.097)	86872	15.1361	15.13
175	tert-Butyl ethyl ether	59	4.054	4.051	(0.841)	89243	15.3159	15.31
176	tert-Amyl alcohol	59	5.243	5.239	(1.088)	49774	285.275	285.27
151	4-Methyl-2-pentanol	45	7.214	7.215	(1.299)	158471	262.494	262.49
140	1,3-Butadiene	54	1.411	1.404	(0.293)	29071	17.6491	17.64
158	Dichlorofluoromethane	67	1.865	1.858	(0.387)	54965	15.2316	15.23
182	Epichlorohydrin	57	6.633	6.630	(1.194)	4701	29.4426	29.44
M 94	1,2-Dichloroethylene (total)	96				60651	37.7862	37.78
M 95	Xylenes (total)	106				152883	57.7471	57.74
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	38218	15.0715	15.07
130	Ethyl Acetate	43	4.347	4.339	(0.902)	31953	14.7270	14.72
131	Methyl Acrylate	55	4.373	4.369	(0.907)	35541	13.3440	13.34
189	n-Butyl acetate	43	7.705	7.706	(0.941)	44113	15.2794	15.27
134	Cyclohexanone	55	9.152	9.153	(0.900)	21326	246.471	246.47(a)
185	Isoprene	39	2.161	2.158	(0.449)	6994	17.0849	17.08
188	Isopropyl acetate	43	5.288	5.284	(0.952)	84261	15.9077	15.90
150	Allyl alcohol	57	3.349	3.342	(0.695)	28417	345.897	345.89
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	58599	14.2587	14.25
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	14105	13.5601	13.56
133	Ethyl Acrylate	55	5.951	5.947	(1.235)	73701	15.8787	15.87
163	Butyl methacrylate	41	9.647	9.647	(0.949)	28209	11.9784	11.97

203 2-Ethylhexyl Acrylate	55	12.039	12.043 (1.184)	29790	15.3867	15.38

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Sample Info: HS24041977-09HSD;HS24041977-09HSD;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\U240507.b\U050722.D
Inj Date : 07-MAY-2024 19:17
InstruID : VOA9.i
LabSampID : HS24041977-09MSD

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050725.D Page 1
Report Date: 06-Jun-2024 10:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050725.D
Lab Smp Id: HS24050146-01
Inj Date : 07-MAY-2024 20:22
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050146-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 06-Jun-2024 10:28 s.zaid   Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

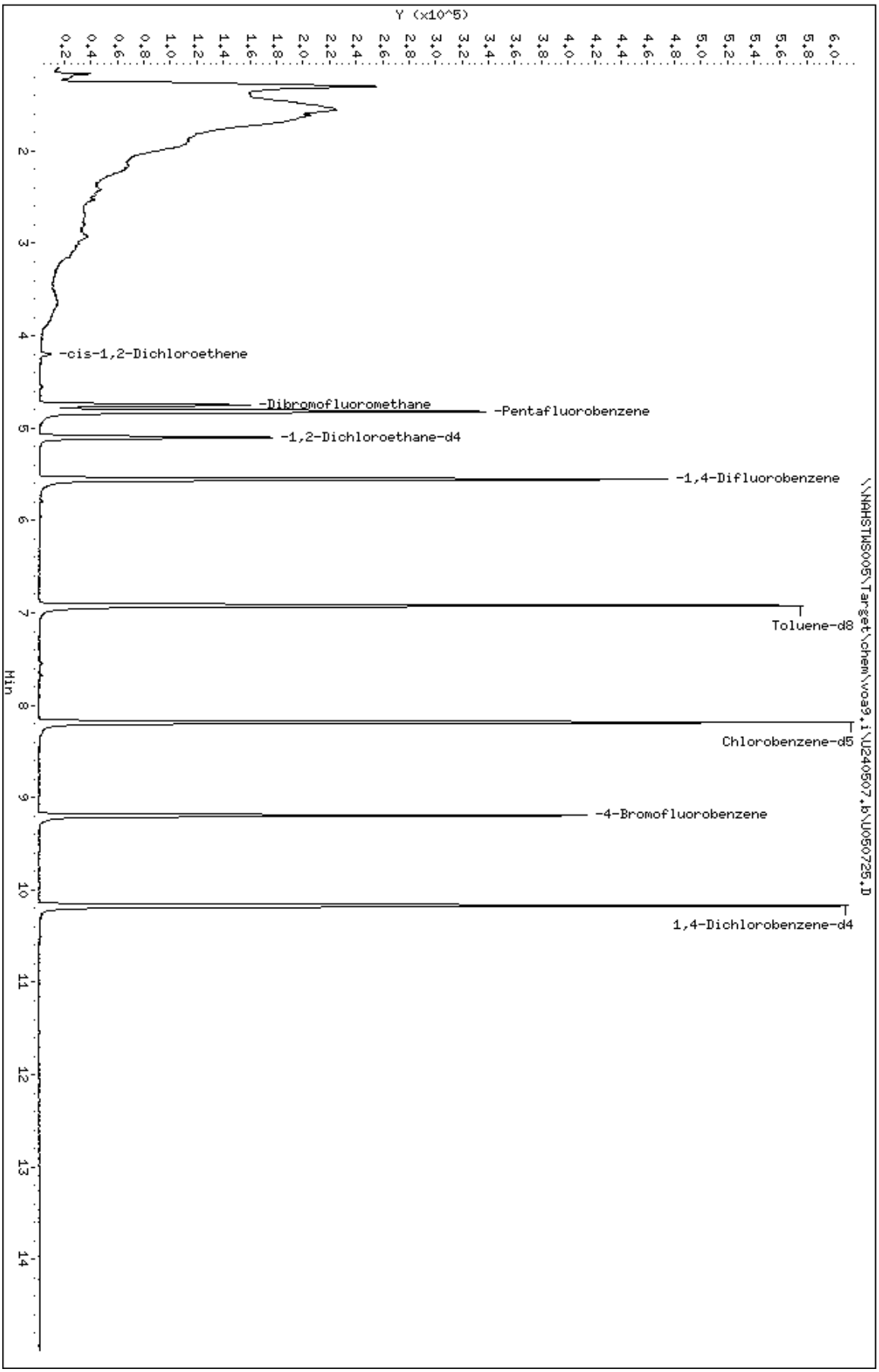
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.819	4.819	(1.000)	245583	50.0000	
	27 cis-1,2-Dichloroethene	96	4.204	4.200	(0.872)	3440	1.97499	1.97
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	92046	52.1570	52.15
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	114677	54.2767	54.27
*	36 1,4-Difluorobenzene	114	5.553	5.553	(1.000)	365244	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	326560	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	356811	54.1084	54.10
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.123)	126407	51.6920	51.69
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161285	50.0000	
M	94 1,2-Dichloroethylene (total)	96				3440	1.74885	1.74(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240507,b\U050725.D
Date : 07-MAY-2024 20:22
Client ID:
Sample Info: HS24050146-01
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\U240507.b\U050725.D Page 2

Date : 07-MAY-2024 20:22

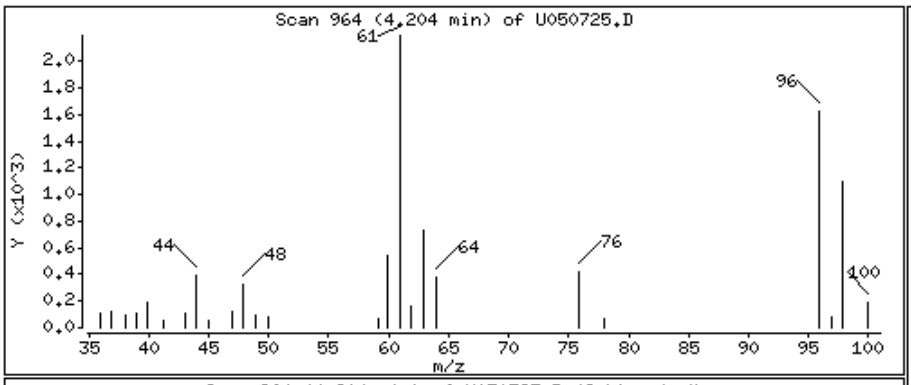
Client ID: Instrument: VOA9.i

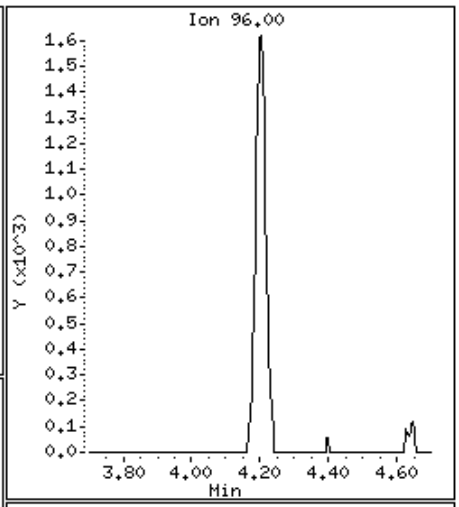
Sample Info: HS24050146-01

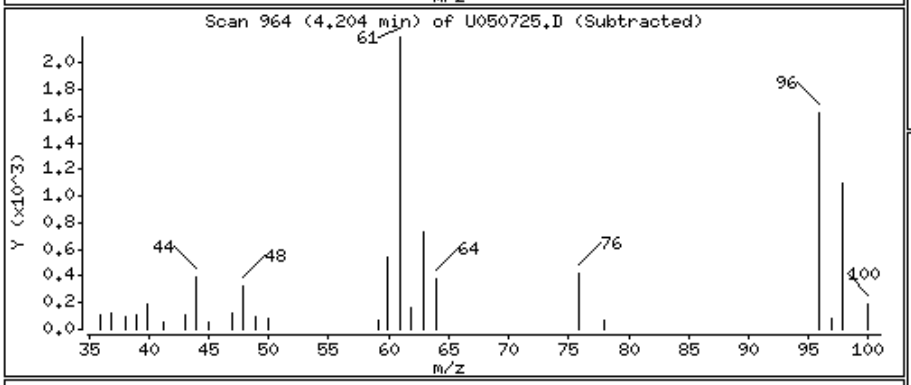
Purge Volume: 5.0 Operator: FT

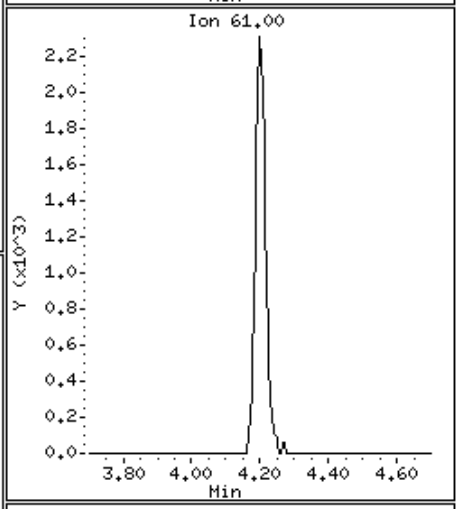
Column phase: DB624 Column diameter: 0.18

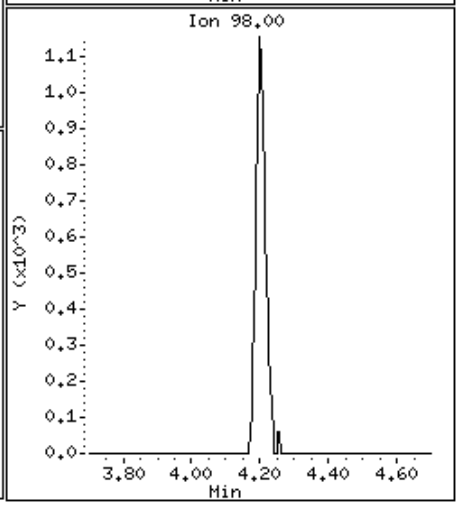
27 cis-1,2-Dichloroethene Concentration: 1.97 ug/l











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InstruID : VOA9.i
LabSampID : HS24050146-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050740.D Page 1
Report Date: 05-Jun-2024 10:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050740.D
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Inj Date : 08-MAY-2024 01:48
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\U240507.b\8260C.m
Meth Date : 05-Jun-2024 10:39 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20 Cal File: U050711.D
Als bottle: 39 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	4.811	4.811	(1.000)	246461	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	84723	50.0000	58.75
3 Chloromethane	50	1.291	1.291	(0.268)	106630	50.0000	55.46
4 Propionitrile	54	4.332	4.332	(0.900)	136489	500.000	446.24
5 Vinyl Chloride	62	1.370	1.370	(0.285)	110538	50.0000	56.53
6 Bromomethane	94	1.606	1.606	(0.334)	53507	50.0000	52.46
7 Chloroethane	64	1.689	1.689	(0.351)	76994	50.0000	58.08
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	134848	50.0000	58.92
9 Acrolein	56	2.258	2.258	(0.469)	8341	100.000	91.89
10 Acetone	43	2.401	2.401	(0.499)	59928	100.000	95.91
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	76025	50.0000	59.08
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	263909	1000.00	1014.95
13 Acetonitrile	39	2.667	2.667	(0.554)	113975	500.000	466.41
14 Allyl Chloride	41	2.667	2.667	(0.554)	267058	50.0000	42.85
15 Iodomethane	142	2.465	2.465	(0.512)	146535	100.000	94.01
16 Acrylonitrile	53	3.061	3.061	(0.636)	75570	100.000	94.10
17 Methylene Chloride	84	2.787	2.787	(0.579)	95737	50.0000	57.79
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	245582	50.0000	42.72
19 Carbon Disulfide	76	2.517	2.517	(0.523)	452262	100.000	116.73
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	85297	50.0000	59.22

21 Vinyl Acetate	43	4.335	4.335 (0.901)	99874	100.000	94.29
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	163643	50.0000	59.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.260	4.260	(0.885)	74476	100.000	95.65
25	Methacrylonitrile	41	4.489	4.489	(0.933)	56598	50.0000	42.17(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	93654	50.0000	52.81
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	93849	50.0000	56.37
28	Chloroform	83	4.568	4.568	(0.949)	159123	50.0000	56.14
29	Bromochloromethane	128	4.466	4.466	(0.928)	46883	50.0000	58.22
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	91313	50.0000	51.53
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	122564	50.0000	60.47
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	114791	50.0000	55.91
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	126324	50.0000	54.37
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	98875	50.0000	58.44
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	110426	50.0000	51.94
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	356613	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	355990	50.0000	55.66
38	Trichloroethene	130	5.786	5.786	(1.043)	88422	50.0000	57.57
39	Bromodichloromethane	83	6.277	6.277	(1.131)	109478	50.0000	60.31
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	34628	50.0000	40.29
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	96784	50.0000	57.83
43	2-Nitropropane	43	6.506	6.506	(1.352)	20519	50.0000	42.51
44	Dibromomethane	93	6.116	6.116	(1.102)	56999	50.0000	54.32
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	192546	100.000	103.61
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	125714	50.0000	56.01
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	328669	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.845)	358090	50.0000	53.94
49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	100506	50.0000	38.50
50	Toluene	91	6.978	6.978	(0.853)	378183	50.0000	58.26
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	102948	50.0000	56.10
52	2-Hexanone	43	7.589	7.589	(0.927)	126550	100.000	94.04
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	70668	50.0000	52.44
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	155762	50.0000	54.91
55	Dibromochloromethane	129	7.690	7.690	(0.940)	86107	50.0000	53.45
56	Tetrachloroethene	164	7.454	7.454	(0.911)	69496	50.0000	56.89
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	84092	50.0000	55.65
58	1-Chlorohexane	55	8.193	8.193	(1.476)	81306	50.0000	55.30
59	Chlorobenzene	112	8.208	8.208	(1.003)	253067	50.0000	56.09
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82109	50.0000	54.31
61	Ethylbenzene	106	8.305	8.305	(1.015)	120357	50.0000	56.50
62	m,p-Xylenes	106	8.406	8.406	(1.027)	307895	100.000	119.55
63	o-Xylene	106	8.744	8.744	(1.068)	154674	50.0000	60.13
64	Styrene	104	8.759	8.759	(1.070)	268245	50.0000	61.70
66	Bromoform	173	8.916	8.916	(1.089)	53126	50.0000	54.45
67	Isopropylbenzene	105	9.059	9.059	(1.107)	374478	50.0000	60.54
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	123400	50.0000	52.94
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	135093	50.0000	55.00
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	183416	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	117738	50.0000	50.40
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	24673	50.0000	51.17
73	n-Propylbenzene	91	9.411	9.411	(0.926)	436649	50.0000	59.09
74	Bromobenzene	156	9.317	9.317	(0.916)	103212	50.0000	51.84
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	306890	50.0000	57.46
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	268172	50.0000	53.64
77	4-Chlorotoluene	91	9.572	9.572	(0.941)	311545	50.0000	55.36

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	257389	50.0000	57.41
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	311404	50.0000	59.55

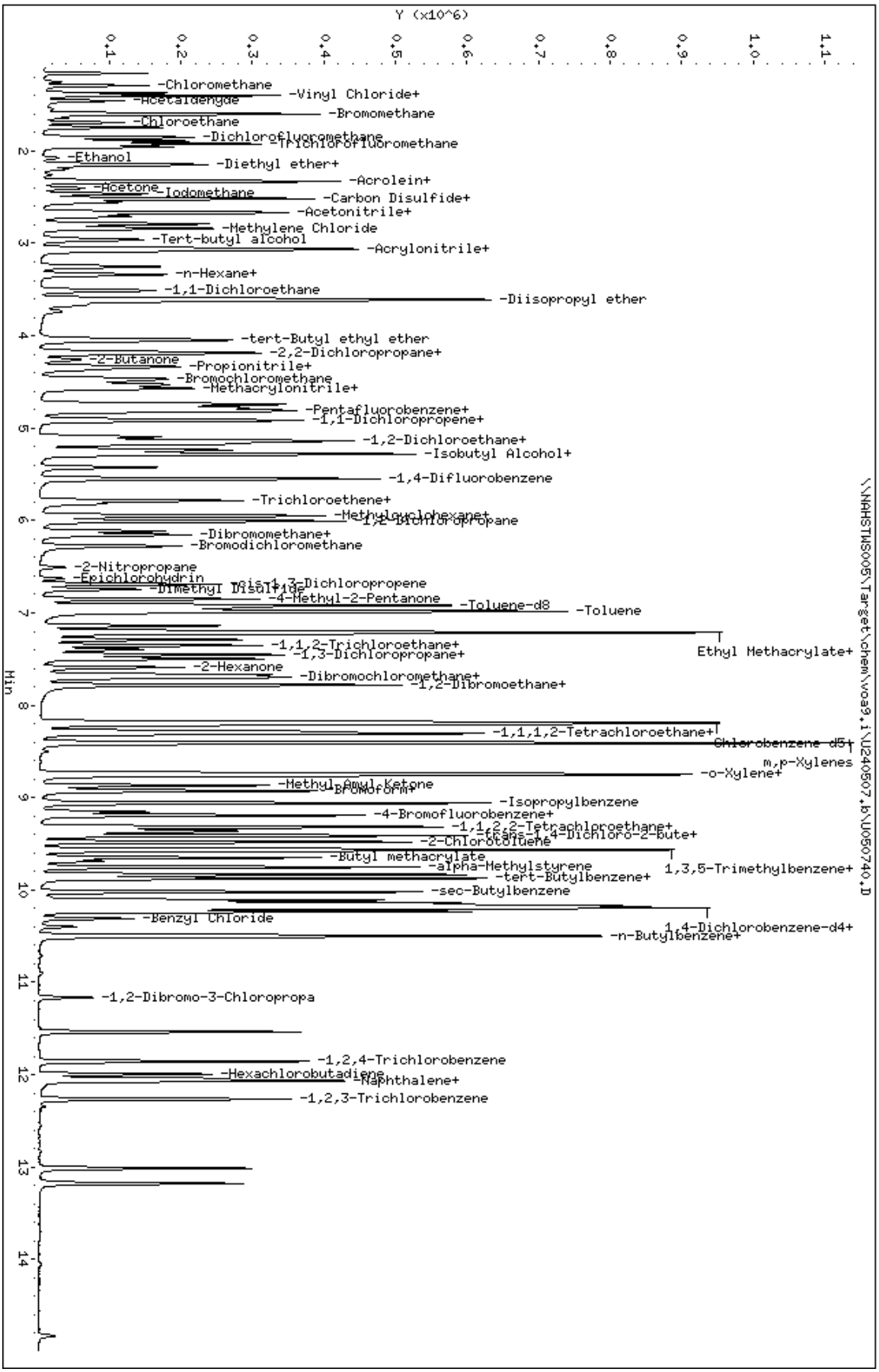
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	339759	50.0000	57.51	
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	303572	50.0000	58.99	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	183591	50.0000	52.73	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	193027	50.0000	53.72	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	84136	50.0000	42.80	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	258317	50.0000	53.00	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	188233	50.0000	54.66	
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	14160	50.0000	47.06	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	111210	50.0000	51.84	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	44620	50.0000	50.19	
92	Naphthalene	128	12.065	12.065	(1.187)	286934	50.0000	47.83	
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	109870	50.0000	53.16	
146	Methyl acetate	43	2.708	2.708	(0.563)	138365	50.0000	50.05	
138	Freon TF	101	2.330	2.330	(0.484)	76561	50.0000	58.38	
141	Cyclohexane	56	4.781	4.781	(0.994)	132566	50.0000	55.30	
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	34573	100.000	88.45	
147	Methylcyclohexane	55	5.943	5.943	(1.071)	210564	50.0000	47.75	
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20798	1000.00	784.80	
132	n-Butanol	56	5.820	5.820	(1.210)	47261	1000.00	714.69	
136	n-Hexane	57	3.338	3.338	(0.694)	84813	50.0000	52.82	
139	Diethyl ether	59	2.139	2.139	(0.445)	74416	50.0000	43.03	
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	149442	1000.00	814.69	
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	124266	1000.00	818.21	
152	Amyl alcohol	42	7.394	7.394	(0.903)	53956	1000.00	771.18	
156	Diisopropyl ether	45	3.616	3.616	(0.751)	326357	50.0000	46.81	
162	Butyl acrylate	55	8.732	8.732	(1.067)	167776	50.0000	43.59	
187	n-Amyl acetate	43	8.931	8.931	(1.091)	166969	50.0000	49.42	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	394106	50.0000	43.52	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	308946	50.0000	45.38	
167	Ethanol	45	2.075	2.075	(0.431)	22957	1000.00	808.30	
172	tert-Butyl formate	59	5.239	5.239	(1.089)	111071	100.000	63.13	
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	167623	1000.00	747.05	
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	247572	50.0000	44.49	
175	tert-Butyl ethyl ether	59	4.043	4.043	(0.840)	258471	50.0000	45.76	
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	111071	1000.00	656.71	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	493778	1000.00	778.68	
140	1,3-Butadiene	54	1.400	1.400	(0.291)	93538	50.0000	58.58	
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	165014	50.0000	47.17	
182	Epichlorohydrin	57	6.626	6.626	(1.194)	24156	200.000	158.64	
M 94	1,2-Dichloroethylene (total)	96				179146	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	145321	50.0000	51.14	
130	Ethyl Acetate	43	4.335	4.335	(0.901)	99874	50.0000	47.48	
131	Methyl Acrylate	55	4.365	4.365	(0.907)	109941	50.0000	44.49	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	156724	50.0000	47.53	
134	Cyclohexanone	55	9.152	9.152	(0.900)	61336	1000.00	706.94	
185	Isoprene	39	2.154	2.154	(0.448)	24549	50.0000	61.86	
188	Isopropyl acetate	43	5.280	5.280	(0.951)	260034	50.0000	51.47	
150	Allyl alcohol	57	3.338	3.338	(0.694)	84813	1000.00	1056.44	
194	Acetaldehyde	44	1.456	1.456	(0.303)	84824	200.000	213.68	
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	182717	50.0000	40.06	
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	52258	50.0000	43.37	
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	210564	50.0000	46.79	

163	Butyl methacrylate	41	9.647	9.647 (0.949)	102217	50.0000	43.03
159	Propylene oxide	43	2.195	2.195 (0.456)	14236	100.000	85.90

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	89794	50.0000	41.50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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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

\\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050740.D

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050740.D
Inj Date : 08-MAY-2024 01:48
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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\U240507.b\U050701.D Page 1
Report Date: 07-May-2024 13:04

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240507.b\U050701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-MAY-2024 11:43
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\U240507.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	81016			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	15330			15.00- 40.00	18.92
9.194	9.180	(0.000)	75	39368			30.00- 60.00	48.59
9.194	9.180	(0.000)	96	5306			5.00- 9.00	6.55
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	71576			50.00- 0.00	88.35
9.194	9.180	(0.000)	175	5738			5.00- 9.00	8.02
9.194	9.180	(0.000)	176	68640			95.00- 101.00	95.90
9.194	9.180	(0.000)	177	4296			5.00- 9.00	6.26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.92
75	30.00 - 60.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.35
175	5.00 - 9.00% of mass 174	7.08 (8.02)
176	95.00 - 101.00% of mass 174	84.72 (95.90)
177	5.00 - 9.00% of mass 176	5.30 (6.26)

Data File: U050701.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
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36.00	882	62.00	3803	93.00	3461	141.70	72
37.00	4130	63.00	2884	94.00	10142	142.80	985
38.00	3767	64.00	368	95.00	81016	144.90	106
39.00	1441	65.10	278	96.00	5306	145.80	158
40.00	219	67.00	296	97.00	151	147.00	66
41.10	82	68.00	8355	103.90	432	147.80	223
41.90	65	69.00	8554	104.90	114	148.90	62
43.00	125	70.00	715	105.90	318	149.90	115
44.00	652	71.20	79	106.80	86	153.00	57
45.00	717	72.10	486	110.00	57	154.10	67
45.90	134	73.00	3721	110.70	77	154.90	204
47.00	1176	74.00	13458	111.80	59	156.90	104
48.00	588	75.00	39368	112.70	70	159.00	87
49.00	3483	76.00	3402	114.90	82	160.80	101
50.00	15330	77.00	476	115.90	261	170.10	66
51.00	4844	78.00	387	116.80	514	172.00	479
52.00	253	78.90	2316	117.90	262	173.90	71576
52.80	94	80.00	727	118.90	393	175.00	5738
55.00	227	80.90	2268	127.80	290	175.90	68640
56.00	1279	81.90	567	128.90	200	176.90	4296
57.00	2156	83.00	93	129.80	312	177.90	127
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58.80	54	87.90	3485	134.80	152		
60.00	776	90.90	311	136.90	124		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240507.b\u050701.d Page 1

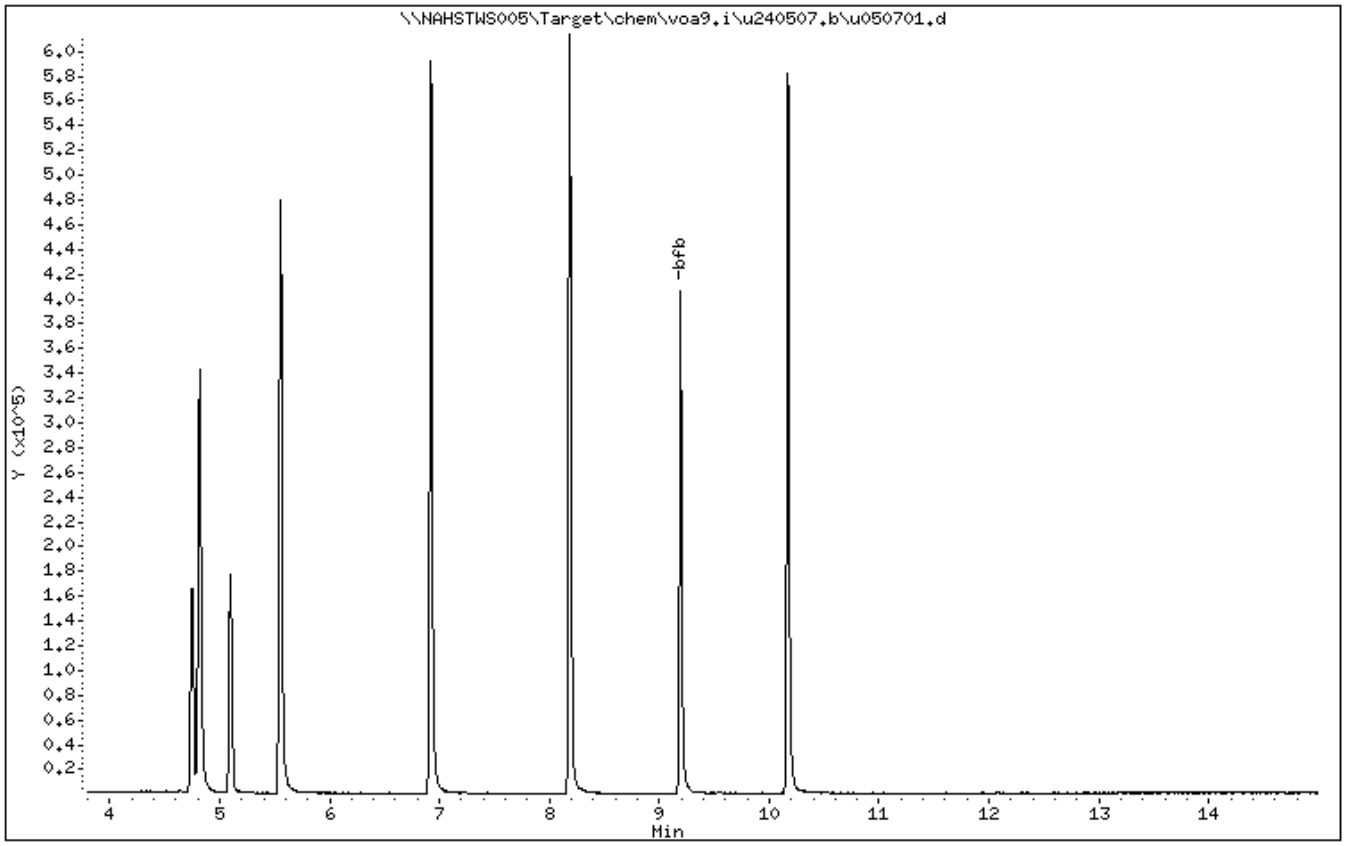
Date : 07-MAY-2024 11:43

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\u240507.b\u050701.d
Inj Date : 07-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D Page 1
Report Date: 28-May-2024 10:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 07-MAY-2024 12:05
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:32 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: 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

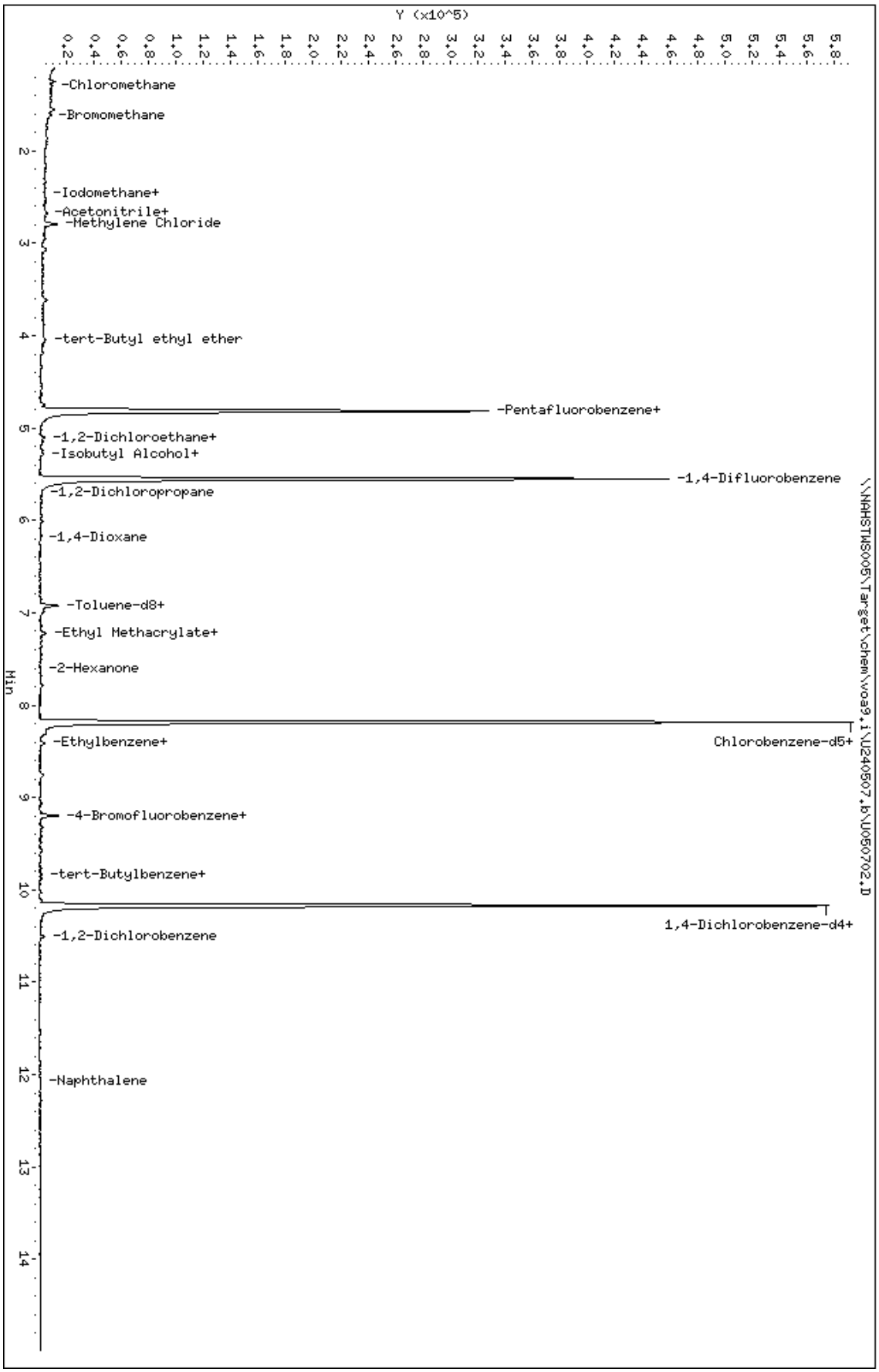
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	249059	50.0000	
	2 Dichlorodifluoromethane	85	0.999	0.999	(0.208)	13404	0.25000	9.45
	5 Vinyl Chloride	62	1.033	1.033	(0.215)	1527	0.25000	0.64
	12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	1696	5.00000	6.45(Ta)
	13 Acetonitrile	39	2.664	2.664	(0.553)	751	2.50000	3.04(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	1616	0.25000	0.25(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	624	0.50000	1.66(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1719	0.25000	(a)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	643	0.25000	0.26(a)
	34 Carbon Tetrachloride	117	4.812	4.812	(0.867)	22491	0.25000	13.37
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	2009	50.0000	(Ta)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	370655	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1427	0.25000	0.21(Ta)
	42 1,2-Dichloropropane	63	5.696	5.696	(1.026)	712	0.25000	0.55(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	329778	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	8742	50.0000	(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	626	0.25000	0.23(a)
	50 Toluene	91	6.982	6.982	(0.853)	1419	0.25000	0.21(a)
	52 2-Hexanone	43	7.601	7.601	(0.929)	754	0.50000	4.07(Ta)
	58 1-Chlorohexane	55	8.182	8.182	(1.474)	3346	0.25000	0.63(a)

61 Ethylbenzene	106	8.414	8.414 (1.028)	1000	0.25000	0.46(a)
62 m,p-Xylenes	106	8.414	8.414 (1.028)	1000	0.50000	0.38(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	63 o-Xylene	106	8.414	8.414	(1.028)	1000	0.25000	0.38(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	4479	50.0000	0.01(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	155199	50.0000	
	71 1,2,3-Trichloropropane	75	9.197	9.197	(0.905)	2407	0.25000	1.21(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	688	0.25000	0.18(Ta)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.972)	754	0.25000	0.17(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	759	0.25000	0.25(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	938	0.25000	0.75(a)
	88 1,2-Dichlorobenzene	146	10.510	10.510	(1.034)	777	0.25000	0.64(a)
	92 Naphthalene	128	12.076	12.076	(1.188)	946	0.25000	2.34(a)
	141 Cyclohexane	56	4.812	4.812	(0.999)	5253	0.25000	1.92(a)
	149 Isopropyl alcohol	45	2.547	2.547	(0.529)	1218	5.00000	(Ta)
	164 Dicyclopentadiene	66	10.168	10.168	(1.000)	4570	0.25000	0.51(Ta)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1757	0.25000	0.30(a)
	174 tert-Amyl methyl ether	73	5.284	5.284	(1.097)	1351	0.25000	0.24(Ta)
	175 tert-Butyl ethyl ether	59	4.039	4.039	(0.839)	1668	0.25000	0.29(a)
	176 tert-Amyl alcohol	59	5.235	5.235	(1.087)	705	5.00000	4.12(a)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2497	5.00000	38.44

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Date : 07-MAY-2024 12:05
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

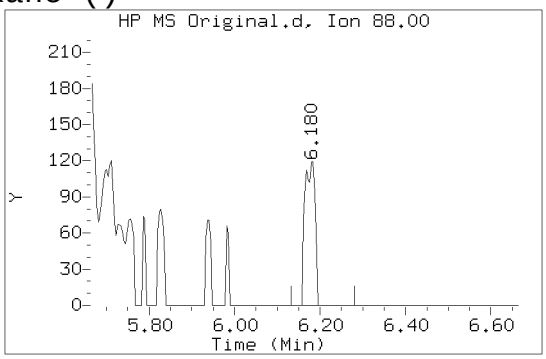
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Inj Date : 07-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
197
HEIGHT
119
07-May-2024
13:41
firat
tastan



AFTER

MASS
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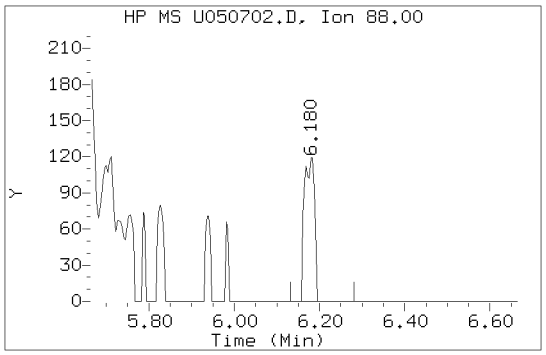
AREA
197
HEIGHT
119
28-May-2024
10:32
firat



BEFORE

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07-May-2024
13:41
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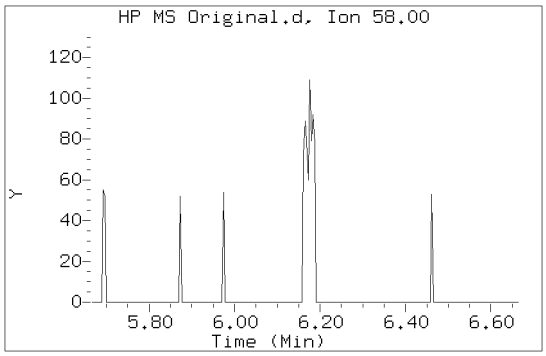

AFTER

MASS
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AREA
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HEIGHT
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28-May-2024
10:32
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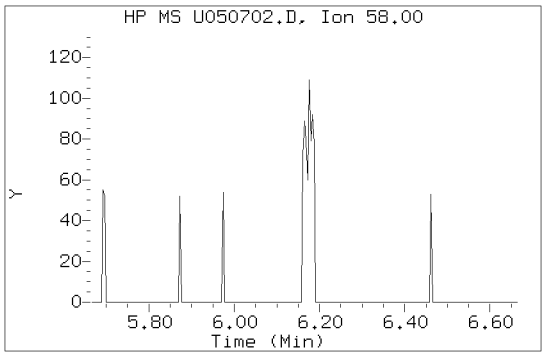


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 07-MAY-2024 12:26
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:32 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:05 Cal File: U050702.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: 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	4.819	4.819	(1.000)	239238	50.0000	
	2 Dichlorodifluoromethane	85	1.172	1.172	(0.243)	578	0.50000	0.54(M)
	4 Propionitrile	54	4.350	4.350	(0.903)	2175	5.00000	(aM)
	5 Vinyl Chloride	62	1.385	1.385	(0.288)	1033	0.50000	0.41(aM)
	6 Bromomethane	94	1.629	1.629	(0.338)	1339	0.50000	0.63
	8 Trichlorofluoromethane	101	1.903	1.903	(0.395)	999	0.50000	0.31(a)
	9 Acrolein	56	2.277	2.277	(0.473)	365	1.00000	(aM)
	11 1,1-Dichloroethene	96	2.341	2.341	(0.486)	760	0.50000	0.22(aM)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	2050	10.0000	8.12(a)
	13 Acetonitrile	39	2.682	2.682	(0.557)	1278	5.00000	5.38(a)
	14 Allyl Chloride	41	2.679	2.679	(0.556)	3625	0.50000	0.59(a)
	15 Iodomethane	142	2.476	2.476	(0.514)	1163	1.00000	2.06(T)
	18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3272	0.50000	0.58
	19 Carbon Disulfide	76	2.529	2.529	(0.525)	3605	1.00000	0.95(M)
	20 trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	855	0.50000	0.21(Ta)
	21 Vinyl Acetate	43	4.362	4.362	(0.905)	1116	1.00000	1.08(M)
	22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	1674	0.50000	0.35(Ta)
	23 Chloroprene	53	2.169	2.169	(0.450)	322	0.50000	(aM)
	24 2-Butanone	43	4.275	4.275	(0.887)	768	1.00000	1.01(M)
	25 Methacrylonitrile	41	4.504	4.504	(0.935)	697	0.50000	0.53(aM)

26	2,2-Dichloropropane	77	4.189	4.189 (0.869)	1026	0.50000	0.97(M)
27	cis-1,2-Dichloroethene	96	4.201	4.201 (0.872)	942	0.50000	0.47(aM)

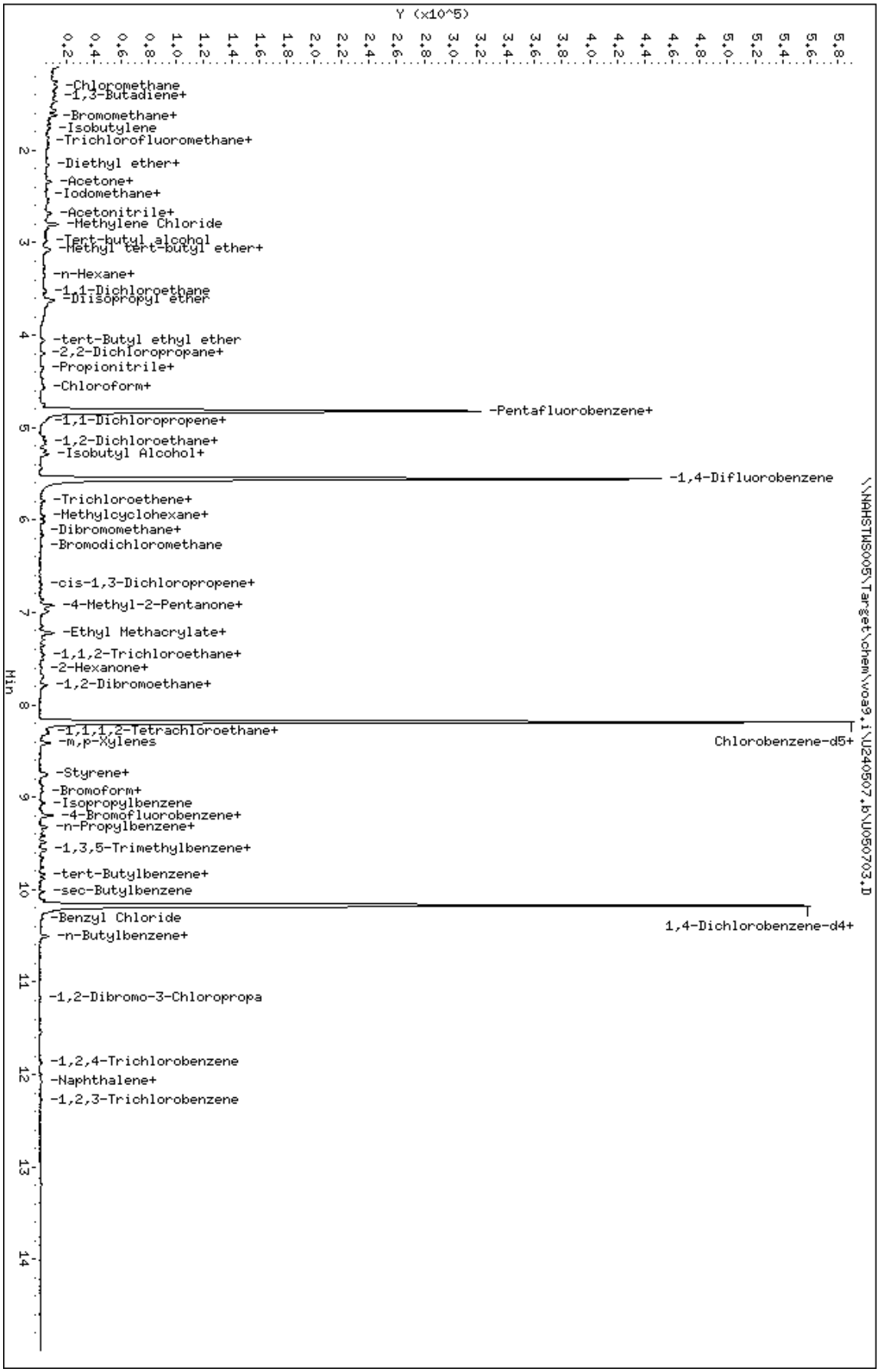
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	28 Chloroform	83	4.579	4.579	(0.950)	1416	0.50000	0.51
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	1673	0.50000	(a)
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	908	0.50000	0.46(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	1313	0.50000	0.63
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	1436	0.50000	0.61
	34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	1152	0.50000	1.00(M)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	2366	0.50000	(Ta)
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	357429	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	3486	0.50000	0.54
	38 Trichloroethene	130	5.794	5.794	(1.042)	743	0.50000	0.31(aM)
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	908	0.50000	0.49(aM)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	942	0.50000	0.71(aM)
	44 Dibromomethane	93	6.120	6.120	(1.101)	650	0.50000	0.61(aM)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	1914	1.00000	1.06(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	858	0.50000	1.42(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318566	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	6516	0.50000	(a)
	49 Ethyl Methacrylate	69	7.222	7.222	(1.299)	1354	0.50000	0.51(a)
	50 Toluene	91	6.986	6.986	(0.853)	2979	0.50000	0.47(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	542	0.50000	1.62(aM)
	52 2-Hexanone	43	7.604	7.604	(0.929)	823	1.00000	4.14(a)
	53 1,1,2-Trichloroethane	83	7.361	7.361	(0.899)	776	0.50000	0.59(a)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	1525	0.50000	0.55(aM)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	591	0.50000	2.81(aM)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	524	0.50000	0.24(aM)
	57 1,2-Dibromoethane	107	7.792	7.792	(0.952)	768	0.50000	0.52(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.473)	3861	0.50000	1.09(aM)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	2517	0.50000	0.57(a)
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	484	0.50000	2.26(aM)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1013	0.50000	0.49(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2121	1.00000	0.84(a)
	63 o-Xylene	106	8.751	8.751	(1.069)	1129	0.50000	0.45(aM)
	64 Styrene	104	8.770	8.770	(1.071)	1735	0.50000	0.41(a)
	66 Bromoform	173	8.920	8.920	(1.090)	257	0.50000	1.77(aM)
	67 Isopropylbenzene	105	9.066	9.066	(1.108)	2370	0.50000	0.39(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1306	0.50000	1.06(aM)
$	69 4-Bromofluorobenzene	95	9.198	9.198	(1.124)	3252	0.50000	(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	154818	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1035	0.50000	0.52(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.389	9.389	(1.147)	306	0.50000	1.23(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	2630	0.50000	0.42(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	851	0.50000	0.50(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1929	0.50000	0.42(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	2284	0.50000	0.54(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	2483	0.50000	0.52(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	1544	0.50000	0.40(a)
	79 1,2,4-Trimethylbenzene	105	9.884	9.884	(0.972)	1797	0.50000	0.40(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	2002	0.50000	0.40(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	1722	0.50000	0.39(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	1560	0.50000	0.53(a)
	84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	2024	0.50000	1.11(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	759	0.50000	3.35(aM)

87	n-Butylbenzene	91	10.498	10.498 (1.032)	1564	0.50000	1.03(a)
88	1,2-Dichlorobenzene	146	10.510	10.510 (1.033)	1873	0.50000	1.02(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
89	1,2-Dibromo-3-Chloropropane	155	11.177	11.177	(1.099)	65	0.50000	2.18(aM)
90	1,2,4-Trichlorobenzene	180	11.870	11.870	(1.167)	693	0.50000	1.13(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	408	0.50000	0.54(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	1860	0.50000	2.51(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	865	0.50000	0.49(aM)
146	Methyl acetate	43	2.720	2.720	(0.564)	1937	0.50000	(aM)
138	Freon TF	101	2.341	2.341	(0.486)	567	0.50000	0.44(aM)
141	Cyclohexane	56	4.819	4.819	(1.000)	5220	0.50000	2.00(a)
147	Methylcyclohexane	55	5.955	5.955	(1.071)	2008	0.50000	0.45(a)
132	n-Butanol	56	5.842	5.842	(1.212)	818	10.0000	12.74(aM)
136	n-Hexane	57	3.353	3.353	(0.696)	811	0.50000	0.39(Ta)
139	Diethyl ether	59	2.150	2.150	(0.446)	1027	0.50000	0.61(Ta)
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	2485	10.0000	(Ta)
152	Amyl alcohol	42	7.409	7.409	(0.905)	551	10.0000	13.50(M)
156	Diisopropyl ether	45	3.631	3.631	(0.753)	3831	0.50000	0.56(aM)
162	Butyl acrylate	55	8.744	8.744	(1.068)	1617	0.50000	1.82(Ta)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	6222	0.50000	0.73(TaM)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2850	0.50000	0.49(a)
167	Ethanol	45	2.090	2.090	(0.434)	520	10.0000	(TaM)
172	tert-Butyl formate	59	5.246	5.246	(1.089)	1950	1.00000	1.14(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	3047	10.0000	29.11(M)
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	2810	0.50000	0.52(Ta)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	2896	0.50000	0.52(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	1890	10.0000	11.51
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	4761	10.0000	41.98
140	1,3-Butadiene	54	1.411	1.411	(0.293)	689	0.50000	0.44(a)
158	Dichlorofluoromethane	67	1.869	1.869	(0.388)	1793	0.50000	0.52(M)
182	Epichlorohydrin	57	6.637	6.637	(1.194)	321	2.00000	2.10(aM)
M 94	1,2-Dichloroethylene (total)	96				1797	1.00000	(a)
130	Ethyl Acetate	43	4.362	4.362	(0.905)	1144	0.50000	0.56(aM)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	1111	0.50000	3.27(aM)
134	Cyclohexanone	55	9.153	9.153	(0.900)	789	10.0000	8.62(aM)
185	Isoprene	39	2.165	2.165	(0.449)	156	0.50000	0.40(aM)
188	Isopropyl acetate	43	5.291	5.291	(0.952)	2022	0.50000	0.39(aM)
150	Allyl alcohol	57	3.353	3.353	(0.696)	811	10.0000	7.82
194	Acetaldehyde	44	1.471	1.471	(0.305)	1055	2.00000	(aM)
195	Methyl Amyl Ketone	43	8.879	8.879	(1.085)	1474	0.50000	2.70(aM)
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	292	0.50000	2.18(aM)
203	2-Ethylhexyl Acrylate	55	12.058	12.058	(1.185)	664	0.50000	2.19(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\U240507,b\U050703.D
Date : 07-MAY-2024 12:26
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

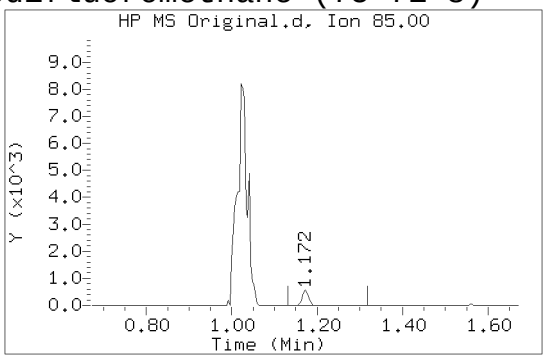
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

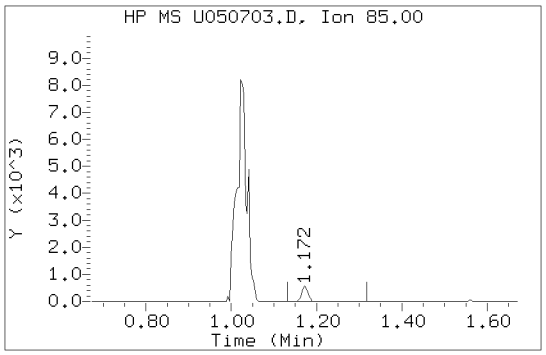
Dichlorodifluoromethane (75-71-8)

Reason Code:

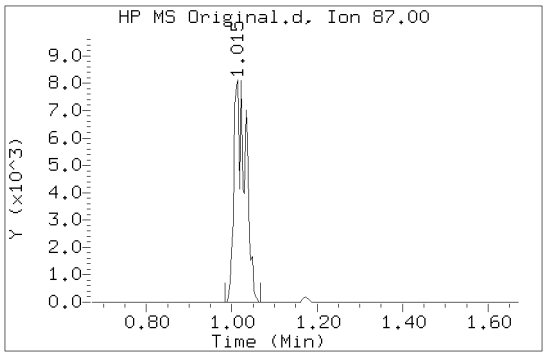
BEFORE
MASS
85
AREA
578
HEIGHT
573
28-May-2024
09:17
tianna
smith



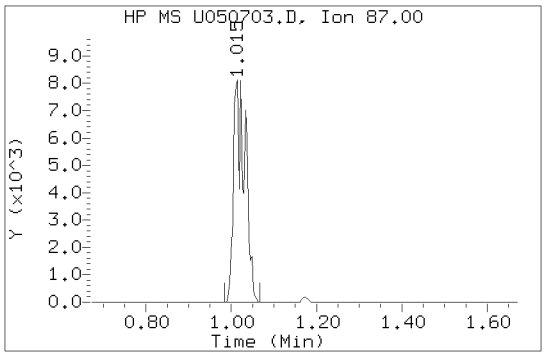
AFTER
MASS
85
AREA
578
HEIGHT
573
28-May-2024
10:32



BEFORE
MASS
87
AREA
15393
HEIGHT
8122
28-May-2024
09:17
tianna
smith



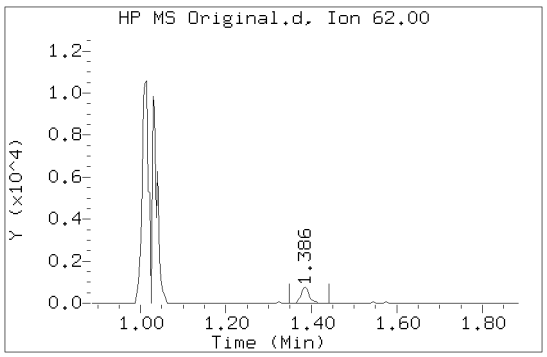
AFTER
MASS
87
AREA
15393
HEIGHT
8122
28-May-2024
10:32



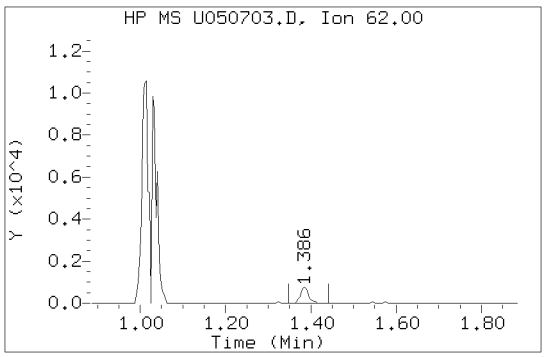
Vinyl Chloride (75-01-4)

Reason Code:

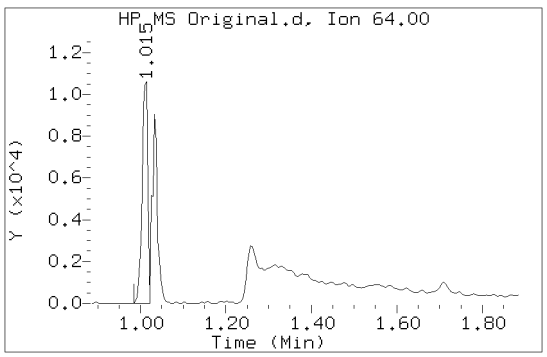
BEFORE
MASS
62
AREA
1033
HEIGHT
776
28-May-2024
09:17
tianna
smith



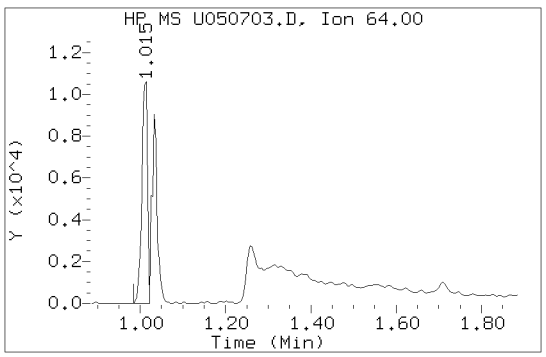
AFTER
MASS
62
AREA
1033
HEIGHT
776
28-May-2024
10:32



BEFORE
MASS
64
AREA
9728
HEIGHT
10605
28-May-2024
09:17
tianna
smith



AFTER
MASS
64
AREA
9728
HEIGHT
10605
28-May-2024
10:32



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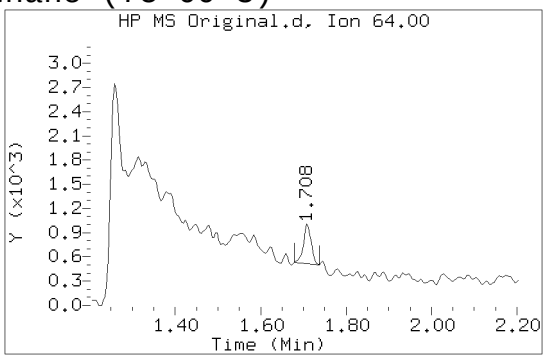
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

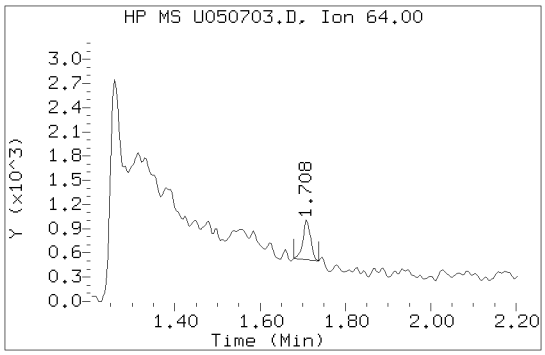
Chloroethane (75-00-3)

Reason Code:

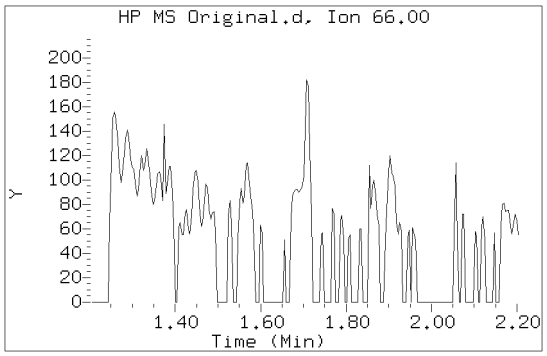
BEFORE
MASS
64
AREA
624
HEIGHT
492
28-May-2024
09:17
tianna
smith



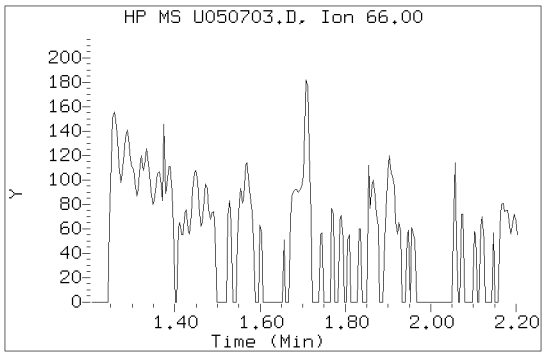
AFTER
MASS
64
AREA
624
HEIGHT
492
28-May-2024
10:32



BEFORE
MASS
66
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



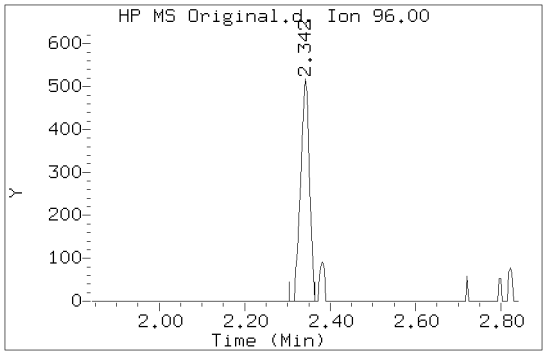
AFTER
MASS
66
AREA
0
HEIGHT
0
28-May-2024
10:32



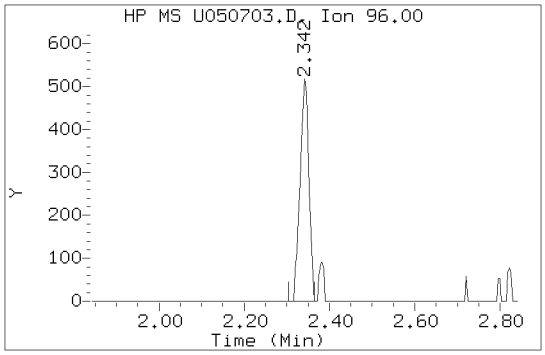
1,1-Dichloroethene (75-35-4)

Reason Code:

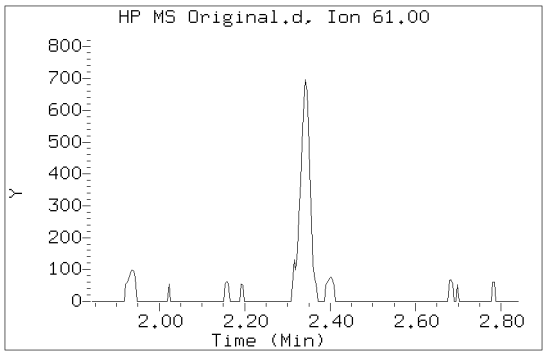
BEFORE
MASS
96
AREA
760
HEIGHT
518
28-May-2024
09:17
tianna
smith



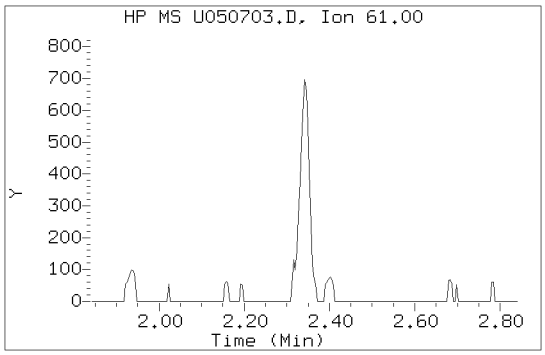
AFTER
MASS
96
AREA
760
HEIGHT
518
28-May-2024
10:32



BEFORE
MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



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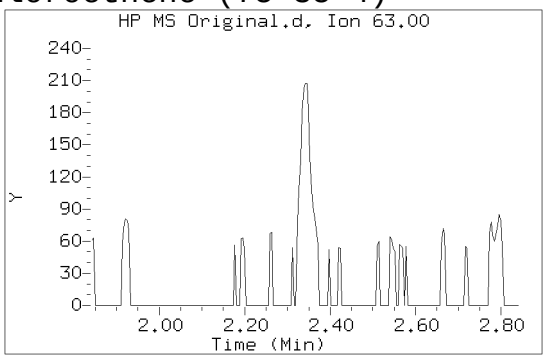
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

MASS
63
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
63
AREA
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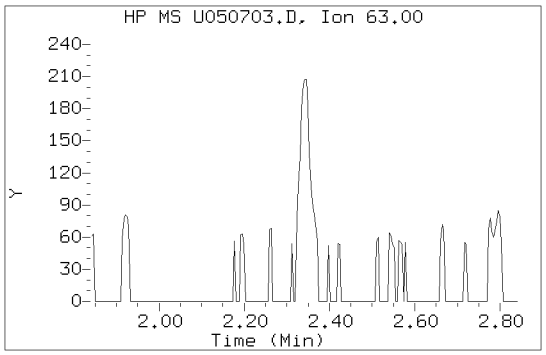
HEIGHT
0
28-May-2024
10:32

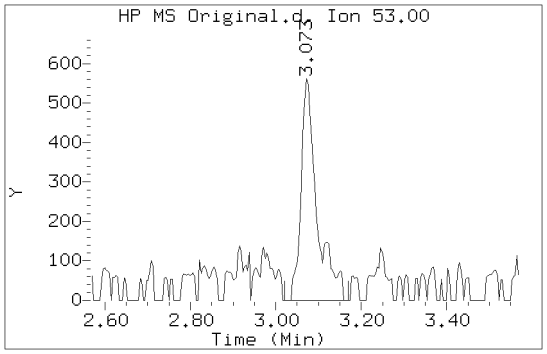


Acrylonitrile (107-13-1)

Reason Code:

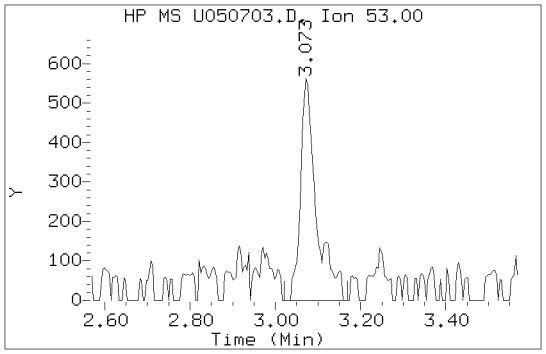
BEFORE

MASS
53
AREA
1473
HEIGHT
562
28-May-2024
09:17
tianna
smith



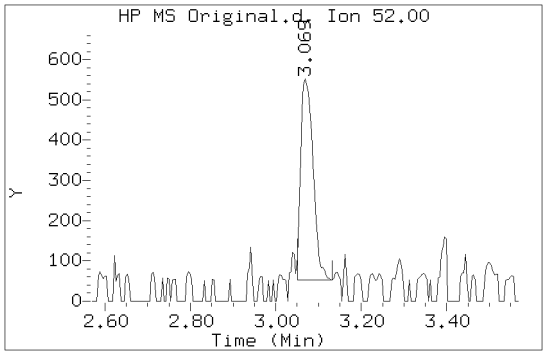
AFTER

MASS
53
AREA
1473
HEIGHT
562
28-May-2024
10:32



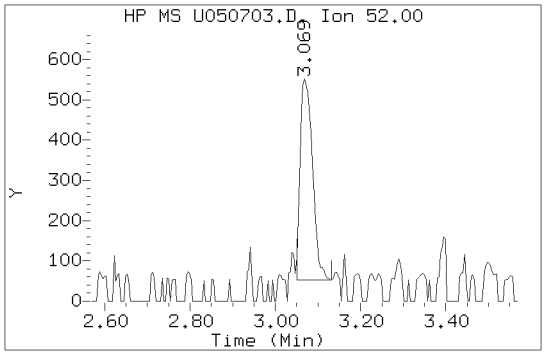
BEFORE

MASS
52
AREA
1023
HEIGHT
499
28-May-2024
09:17
tianna
smith



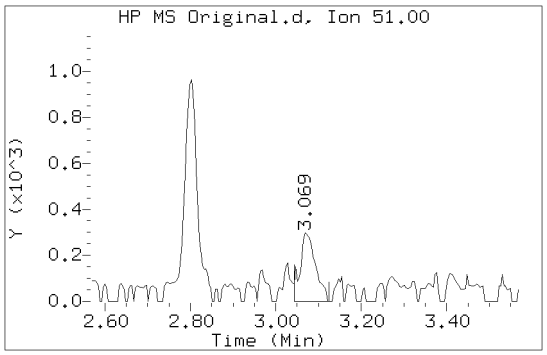
AFTER

MASS
52
AREA
1023
HEIGHT
499
28-May-2024
10:32



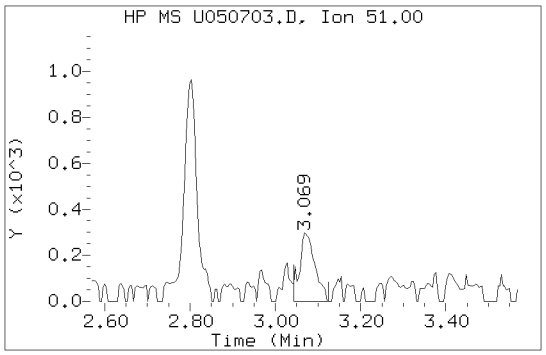
BEFORE

MASS
51
AREA
757
HEIGHT
299
28-May-2024
09:17
tianna
smith



AFTER

MASS
51
AREA
757
HEIGHT
299
28-May-2024
10:32

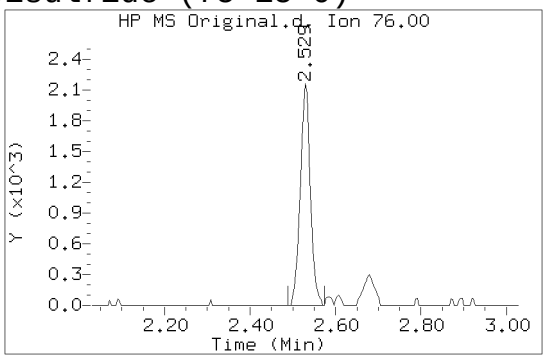


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

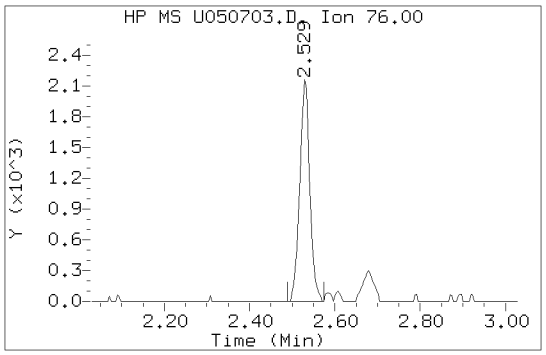
Carbon Disulfide (75-15-0)

Reason Code:

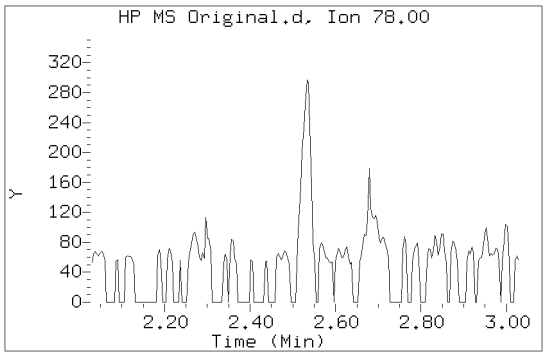
BEFORE
MASS
76
AREA
3605
HEIGHT
2162
28-May-2024
09:17
tianna
smith



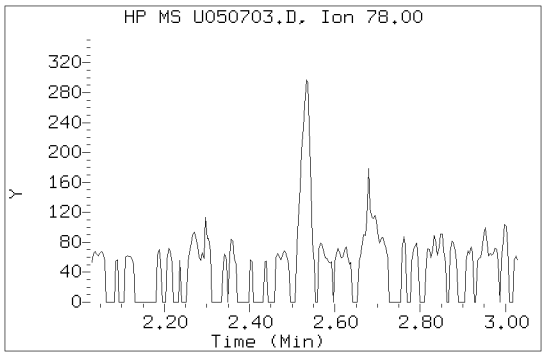
AFTER
MASS
76
AREA
3605
HEIGHT
2162
28-May-2024
10:32



BEFORE
MASS
78
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



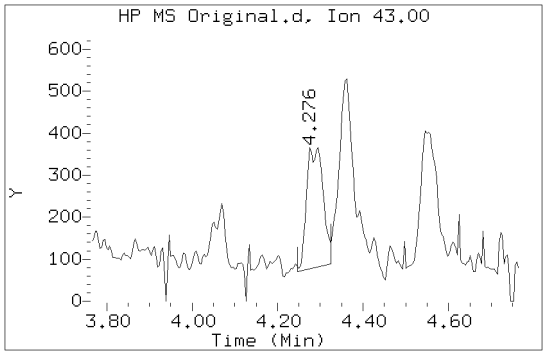
AFTER
MASS
78
AREA
0
HEIGHT
0
28-May-2024
10:32



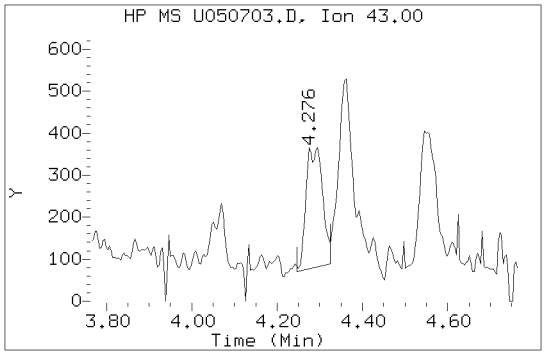
2-Butanone (78-93-3)

Reason Code:

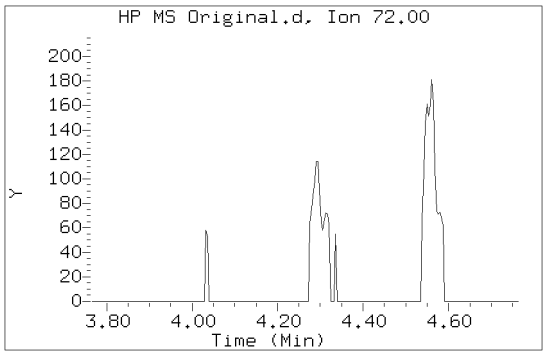
BEFORE
MASS
43
AREA
768
HEIGHT
287
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
768
HEIGHT
287
28-May-2024
10:32



BEFORE
MASS
72
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
72
AREA
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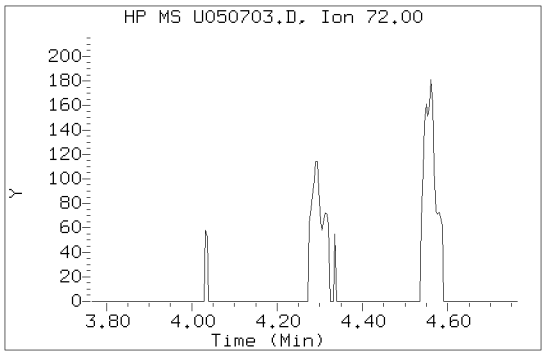
HEIGHT
0
28-May-2024
10:32

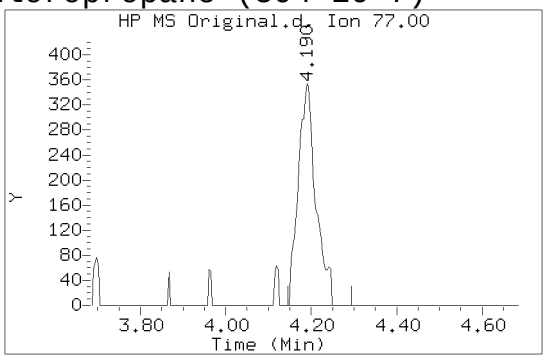


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

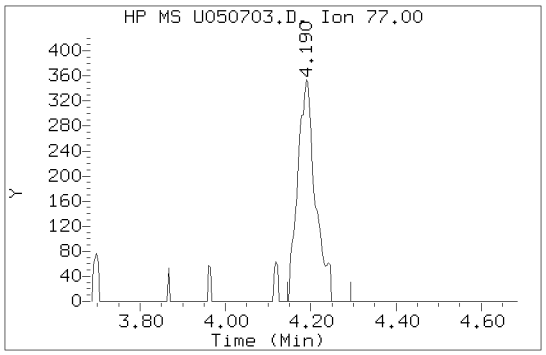
2,2-Dichloropropane (594-20-7)

Reason Code:

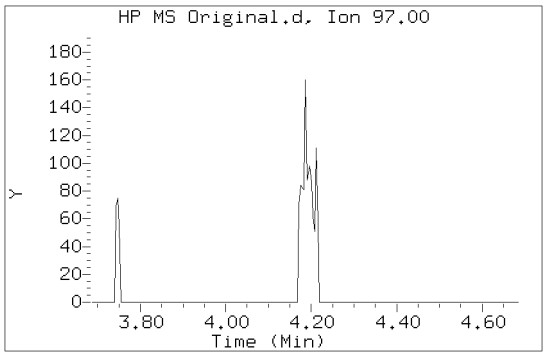
BEFORE
MASS
77
AREA
1026
HEIGHT
354
28-May-2024
09:17
tianna
smith



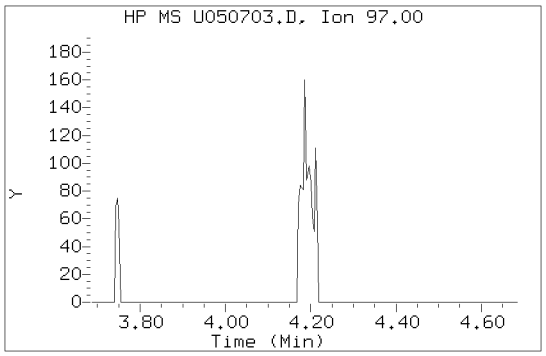
AFTER
MASS
77
AREA
1026
HEIGHT
354
28-May-2024
10:32



BEFORE
MASS
97
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



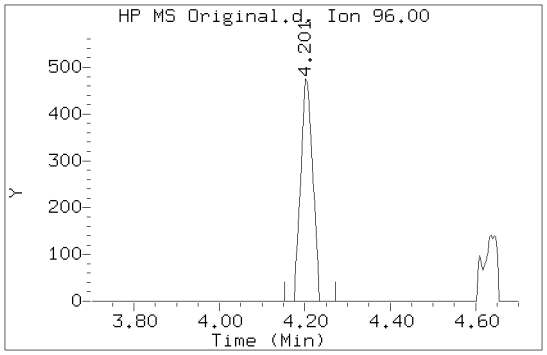
AFTER
MASS
97
AREA
0
HEIGHT
0
28-May-2024
10:32



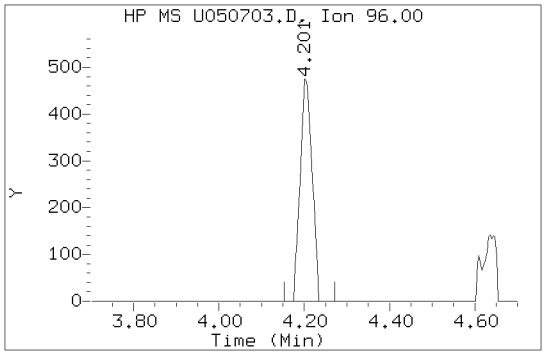
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

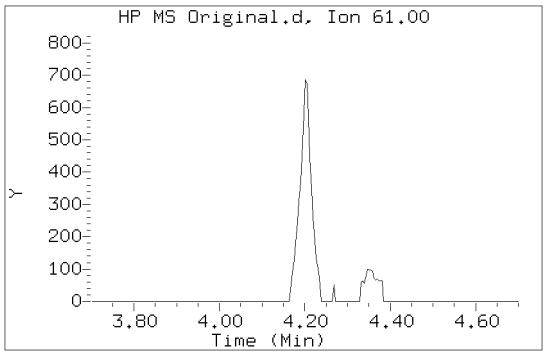
BEFORE
MASS
96
AREA
942
HEIGHT
475
28-May-2024
09:17
tianna
smith



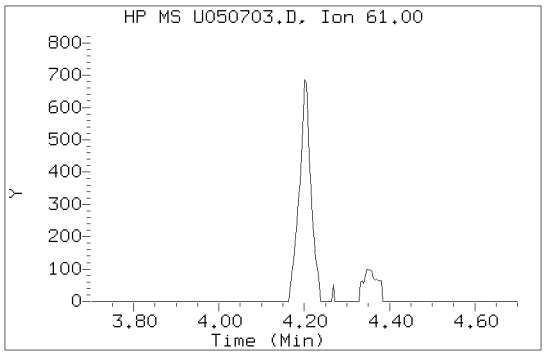
AFTER
MASS
96
AREA
942
HEIGHT
475
28-May-2024
10:32



BEFORE
MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



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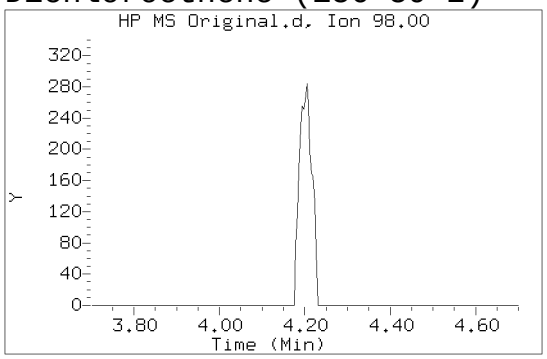
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

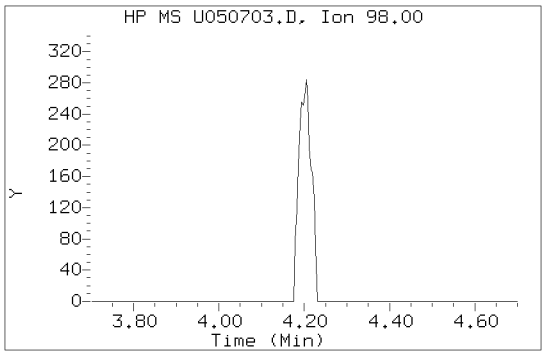
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
MASS
98
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



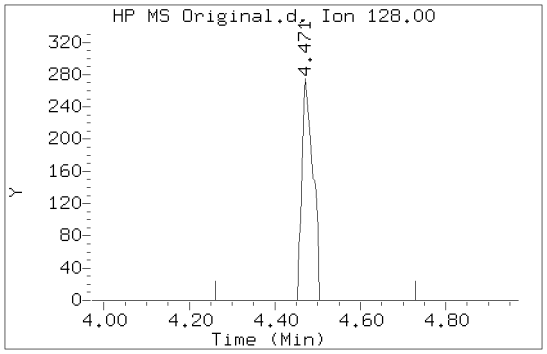
AFTER
MASS
98
AREA
0
HEIGHT
0
28-May-2024
10:32



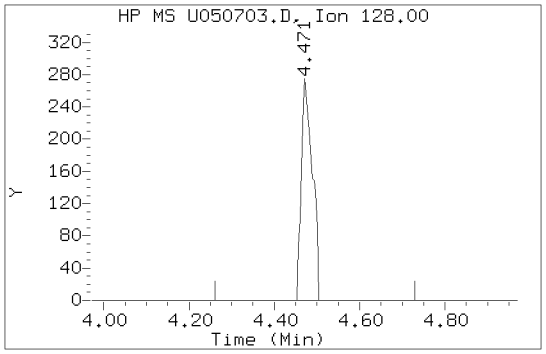
Bromochloromethane (74-97-5)

Reason Code:

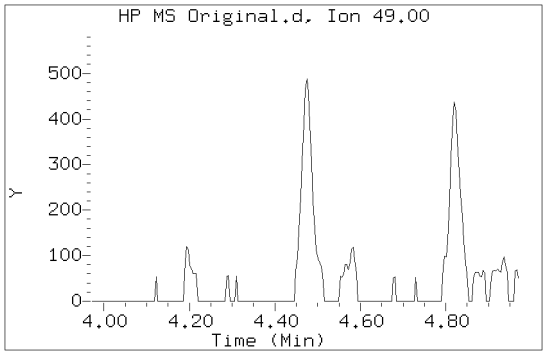
BEFORE
MASS
128
AREA
502
HEIGHT
275
28-May-2024
09:17
tianna
smith



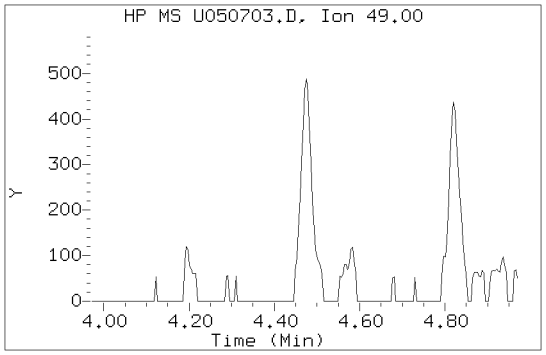
AFTER
MASS
128
AREA
502
HEIGHT
275
28-May-2024
10:32



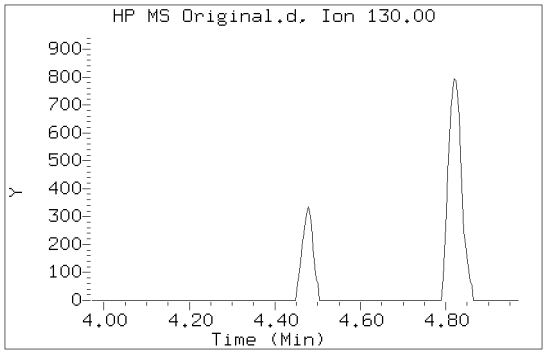
BEFORE
MASS
49
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



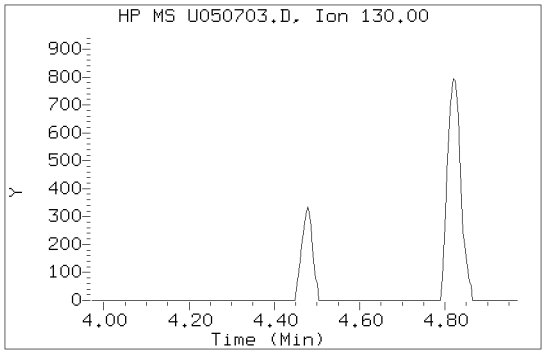
AFTER
MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
130
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
130
AREA
0
HEIGHT
0
28-May-2024
10:32



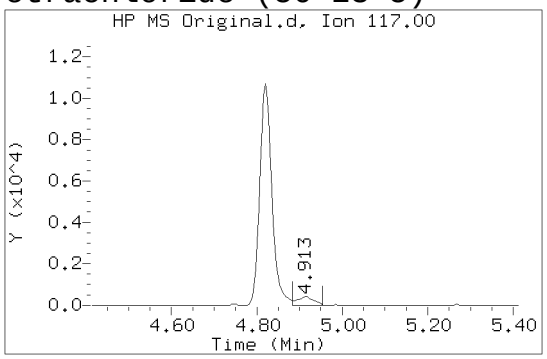
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

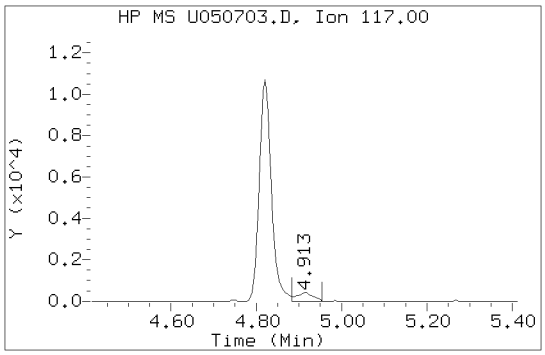
BEFORE

MASS
117
AREA
1152
HEIGHT
437
28-May-2024
09:17
tianna
smith



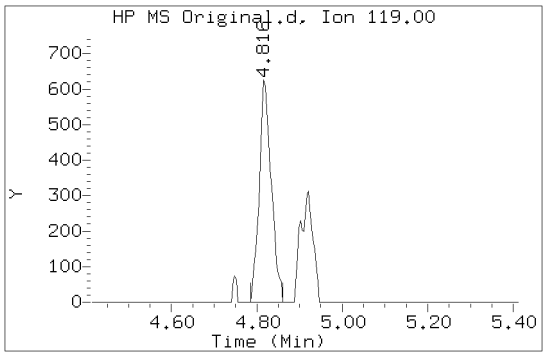
AFTER

MASS
117
AREA
1152
HEIGHT
437
28-May-2024
10:32



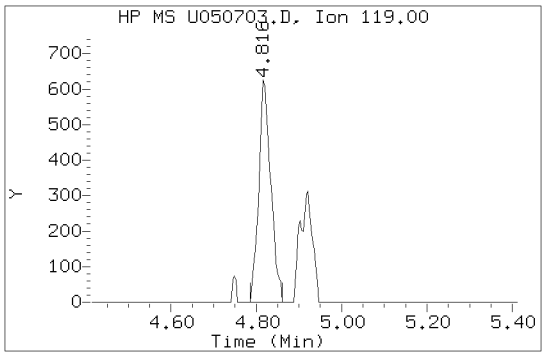
BEFORE

MASS
119
AREA
1223
HEIGHT
626
28-May-2024
09:17
tianna
smith



AFTER

MASS
119
AREA
1223
HEIGHT
626
28-May-2024
10:32

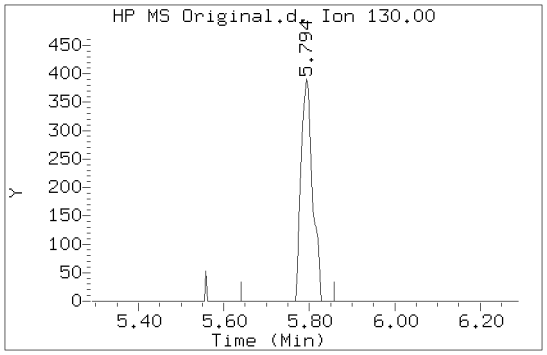


Trichloroethene (79-01-6)

Reason Code:

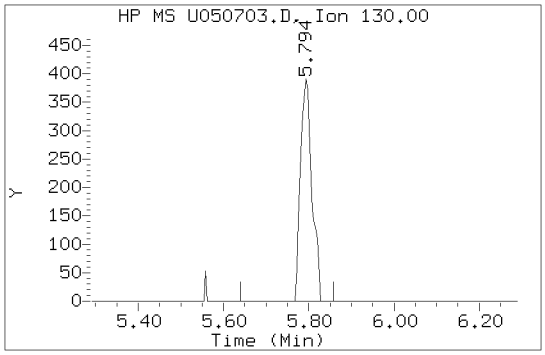
BEFORE

MASS
130
AREA
743
HEIGHT
391
28-May-2024
09:17
tianna
smith



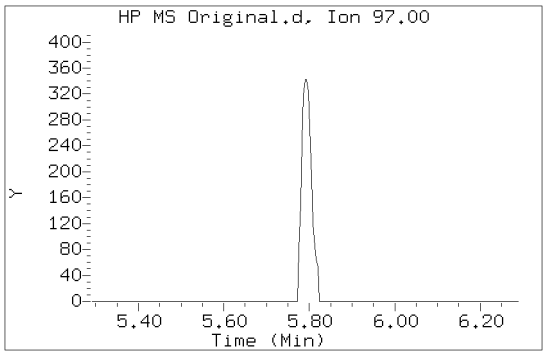
AFTER

MASS
130
AREA
743
HEIGHT
391
28-May-2024
10:32



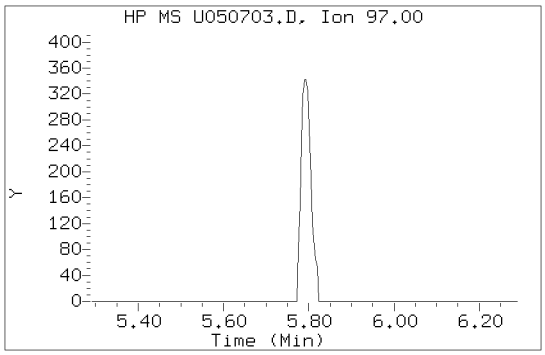
BEFORE

MASS
97
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
97
AREA
0
HEIGHT
0
28-May-2024
10:32



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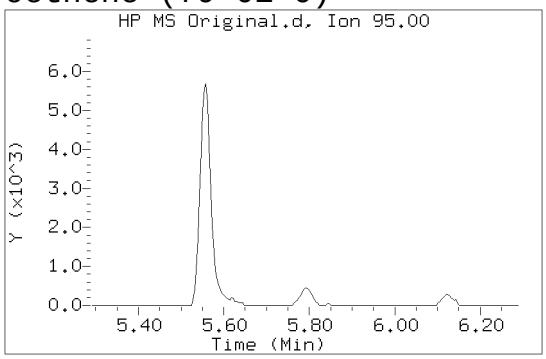
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

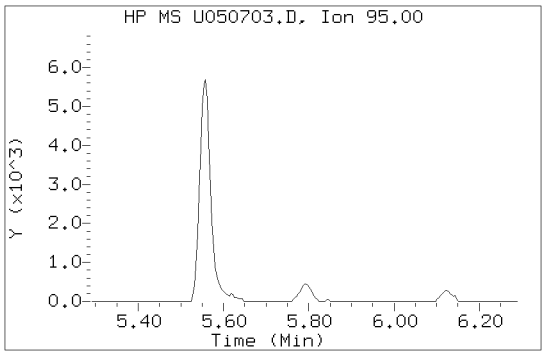
Trichloroethene (79-01-6)

Reason Code:

BEFORE
MASS
95
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



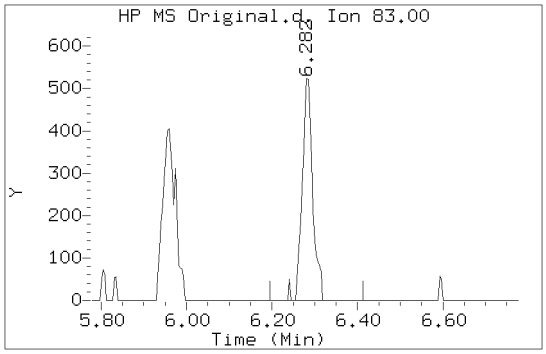
AFTER
MASS
95
AREA
0
HEIGHT
0
28-May-2024
10:32



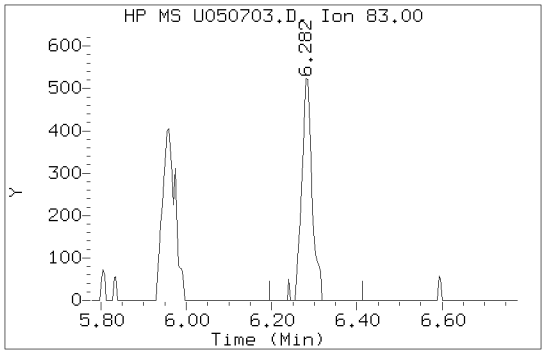
Bromodichloromethane (75-27-4)

Reason Code:

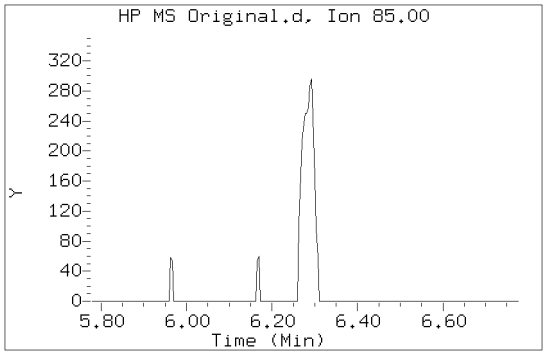
BEFORE
MASS
83
AREA
908
HEIGHT
523
28-May-2024
09:17
tianna
smith



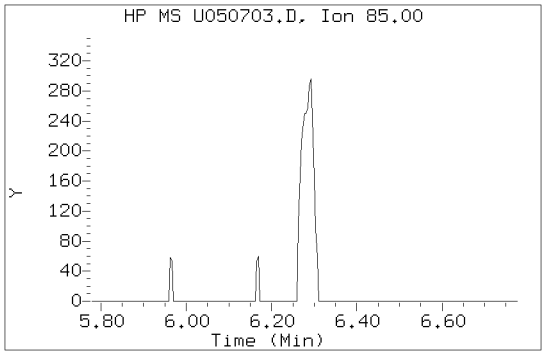
AFTER
MASS
83
AREA
908
HEIGHT
523
28-May-2024
10:32



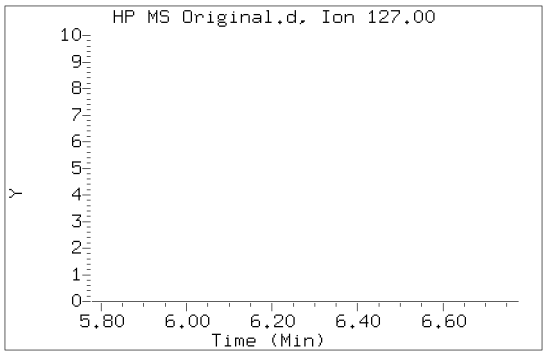
BEFORE
MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



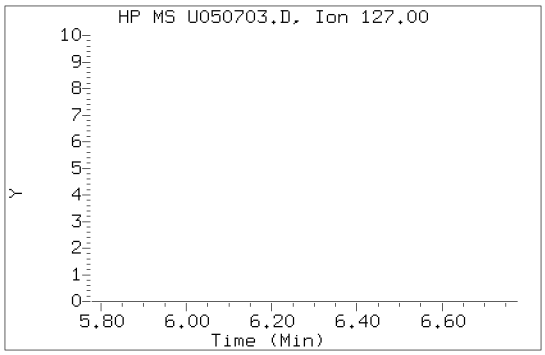
AFTER
MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
127
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
127
AREA
0
HEIGHT
0
28-May-2024
10:32



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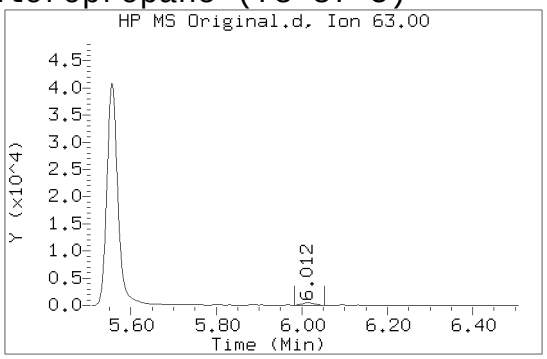
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

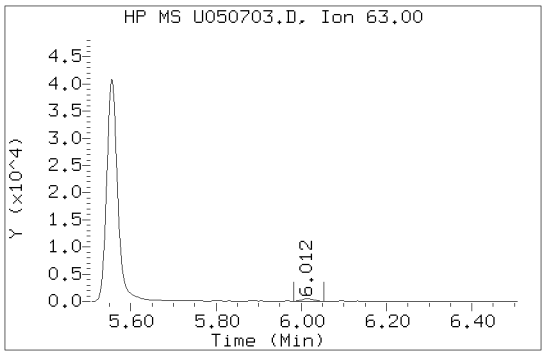
1,2-Dichloropropane (78-87-5)

Reason Code:

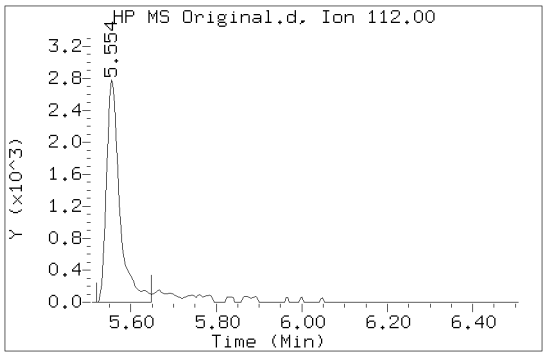
BEFORE
MASS
63
AREA
942
HEIGHT
450
28-May-2024
09:17
tianna
smith



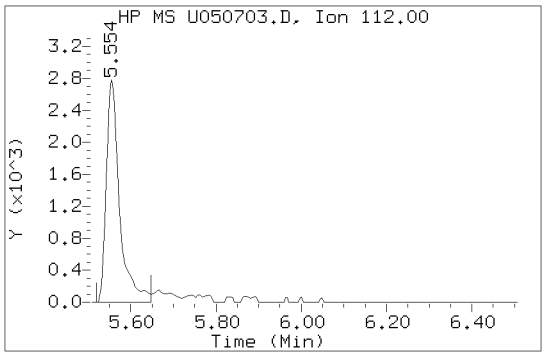
AFTER
MASS
63
AREA
942
HEIGHT
450
28-May-2024
10:32



BEFORE
MASS
112
AREA
6021
HEIGHT
2781
28-May-2024
09:17
tianna
smith



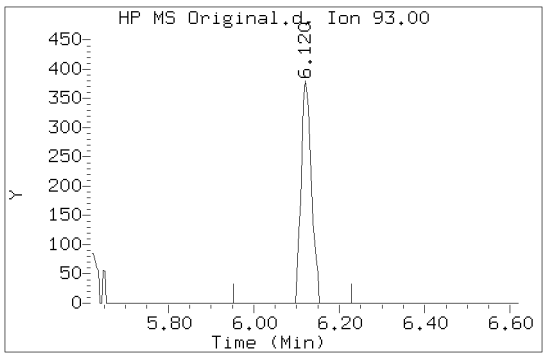
AFTER
MASS
112
AREA
6021
HEIGHT
2781
28-May-2024
10:32



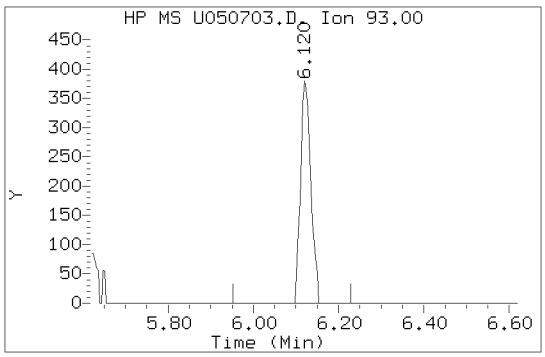
Dibromomethane (74-95-3)

Reason Code:

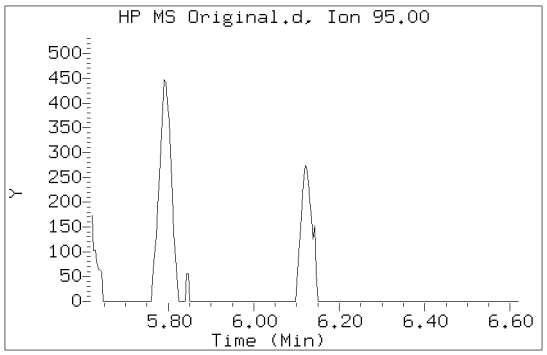
BEFORE
MASS
93
AREA
650
HEIGHT
380
28-May-2024
09:17
tianna
smith



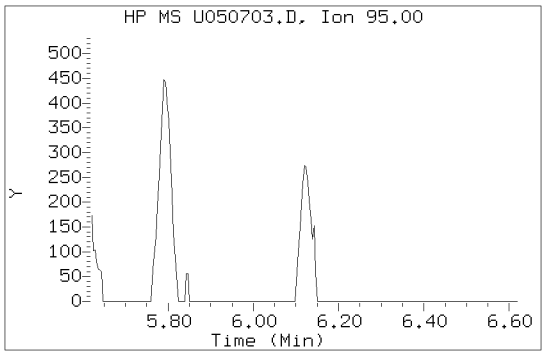
AFTER
MASS
93
AREA
650
HEIGHT
380
28-May-2024
10:32



BEFORE
MASS
95
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
95
AREA
0
HEIGHT
0
28-May-2024
10:32

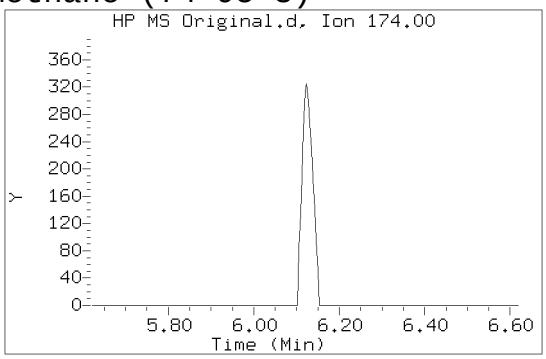


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

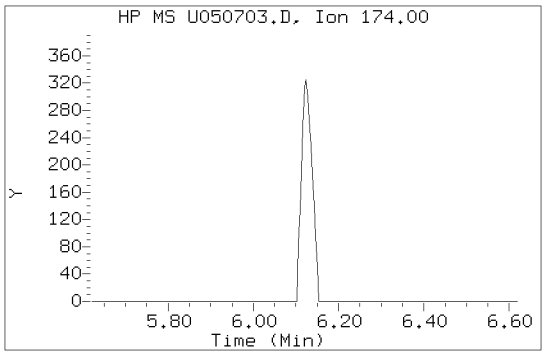
Dibromomethane (74-95-3)

Reason Code:

BEFORE
MASS
174
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



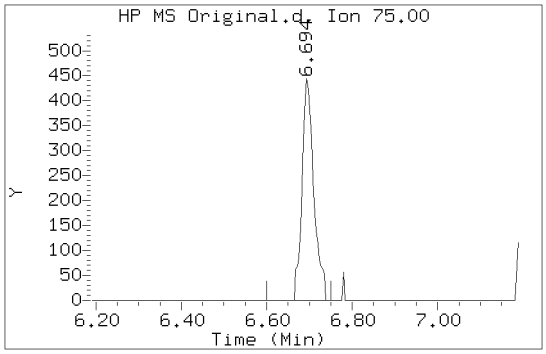
AFTER
MASS
174
AREA
0
HEIGHT
0
28-May-2024
10:32



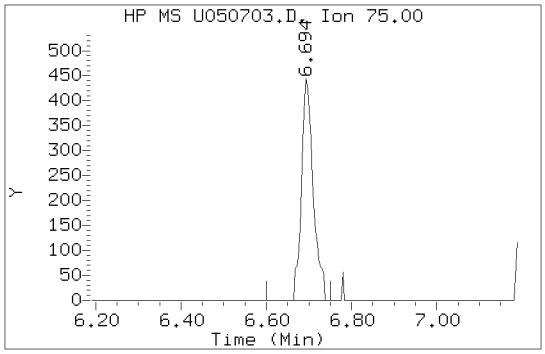
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

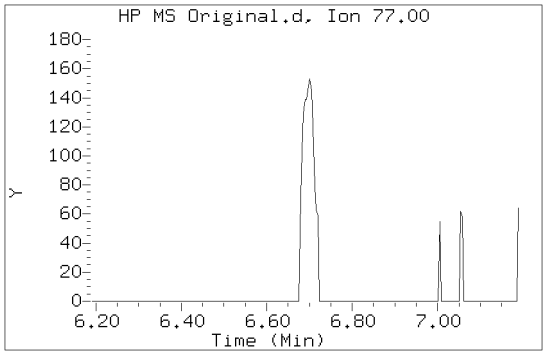
BEFORE
MASS
75
AREA
858
HEIGHT
444
28-May-2024
09:17
tianna
smith



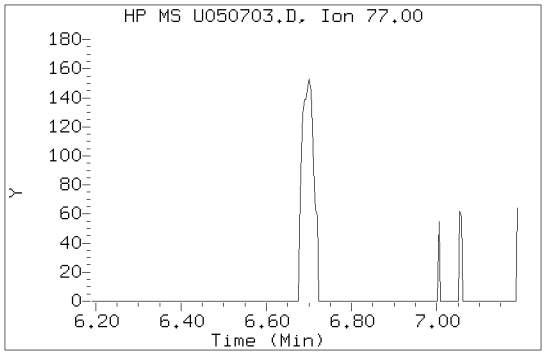
AFTER
MASS
75
AREA
858
HEIGHT
444
28-May-2024
10:32



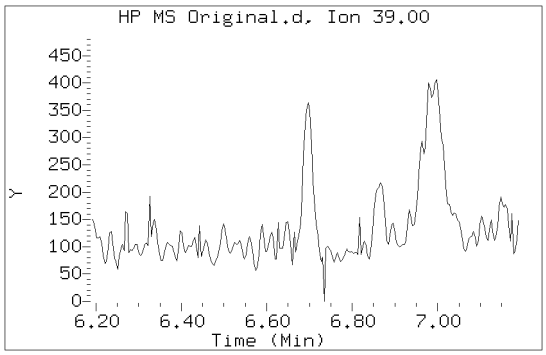
BEFORE
MASS
77
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



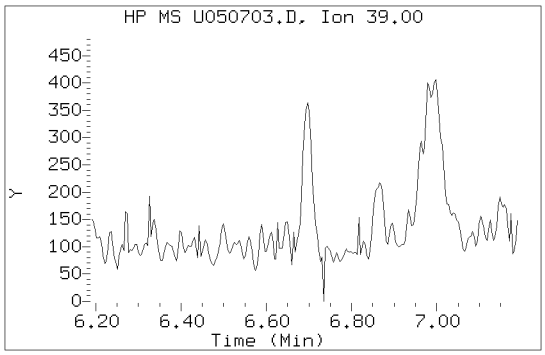
AFTER
MASS
77
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32



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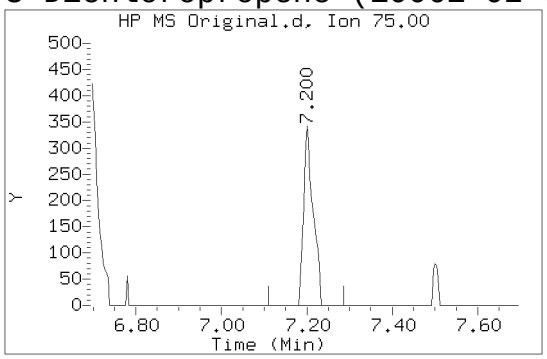
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

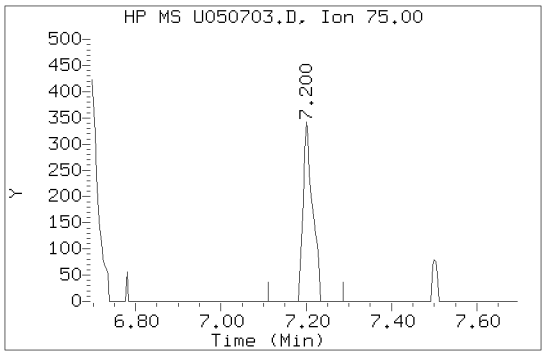
BEFORE

MASS
75
AREA
542
HEIGHT
343
28-May-2024
09:17
tianna
smith



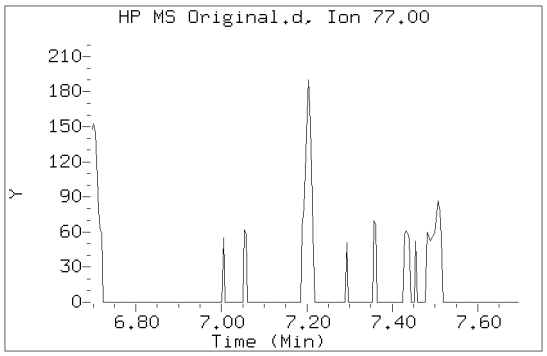
AFTER

MASS
75
AREA
542
HEIGHT
343
28-May-2024
10:32



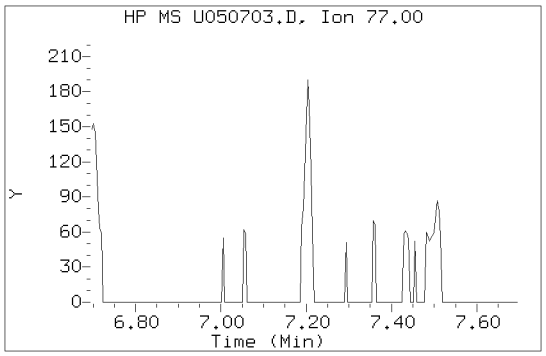
BEFORE

MASS
77
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



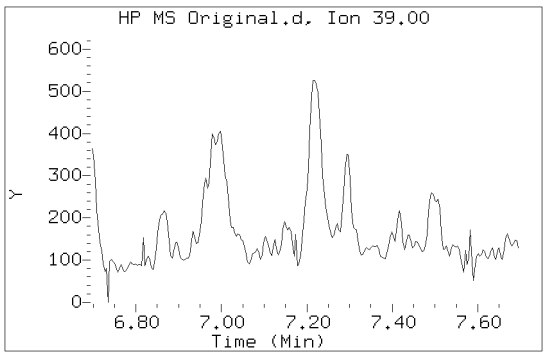
AFTER

MASS
77
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE

MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
39
AREA
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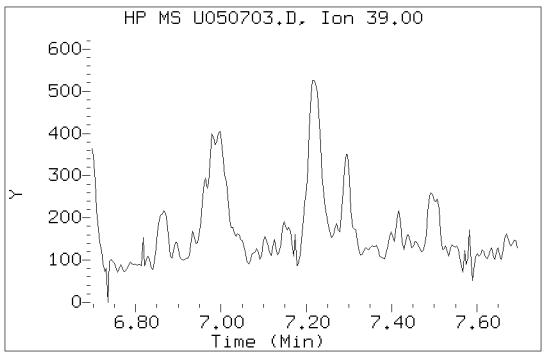
HEIGHT
0
28-May-2024
10:32

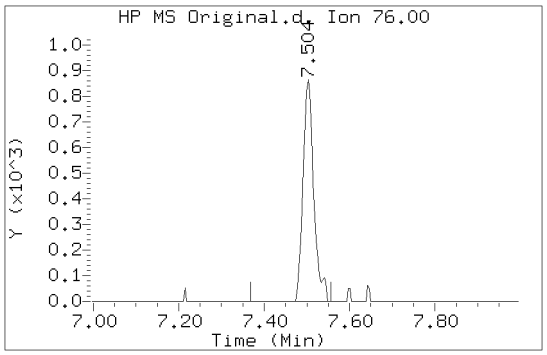


1,3-Dichloropropane (142-28-9)

Reason Code:

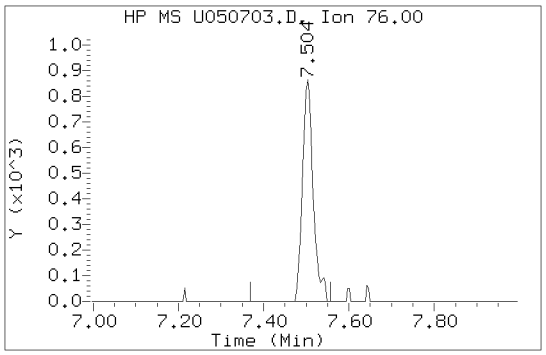
BEFORE

MASS
76
AREA
1525
HEIGHT
865
28-May-2024
09:17
tianna
smith



AFTER

MASS
76
AREA
1525
HEIGHT
865
28-May-2024
10:32



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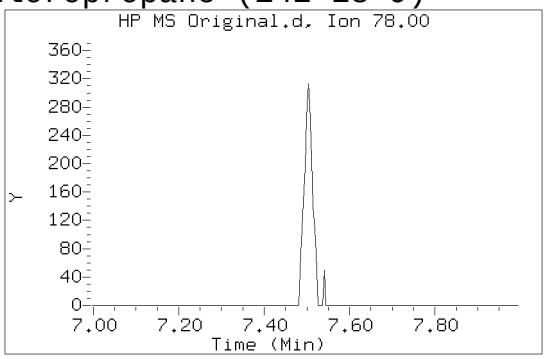
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

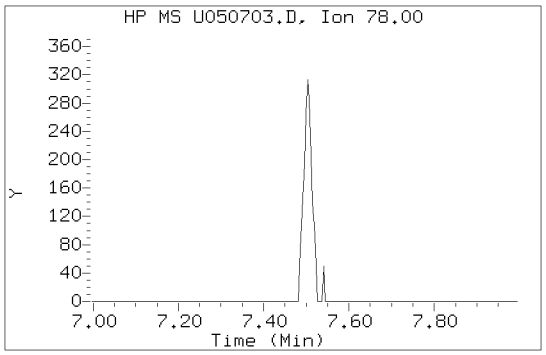
BEFORE

MASS
78
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
78
AREA
0
HEIGHT
0
28-May-2024
10:32

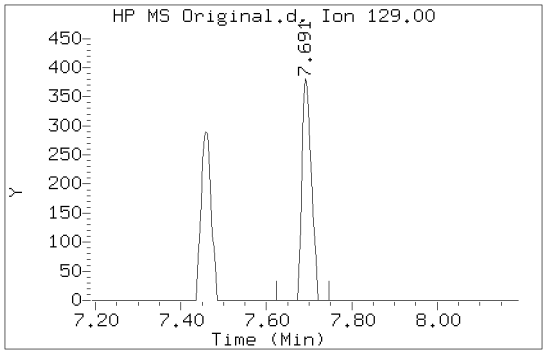


Dibromochloromethane (124-48-1)

Reason Code:

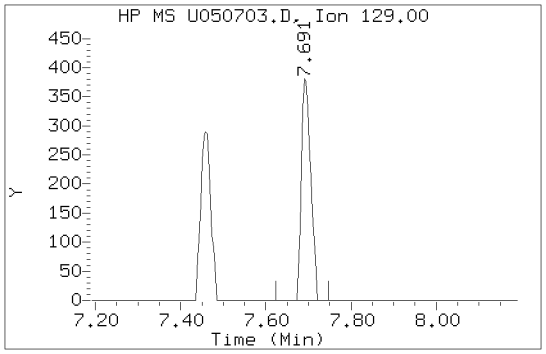
BEFORE

MASS
129
AREA
591
HEIGHT
381
28-May-2024
09:17
tianna
smith



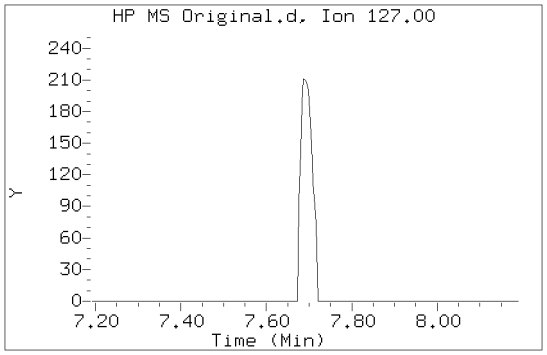
AFTER

MASS
129
AREA
591
HEIGHT
381
28-May-2024
10:32



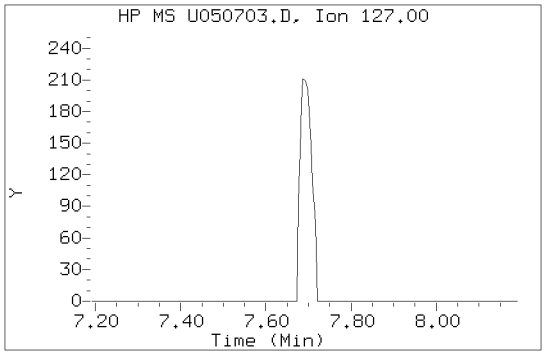
BEFORE

MASS
127
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
127
AREA
0
HEIGHT
0
28-May-2024
10:32

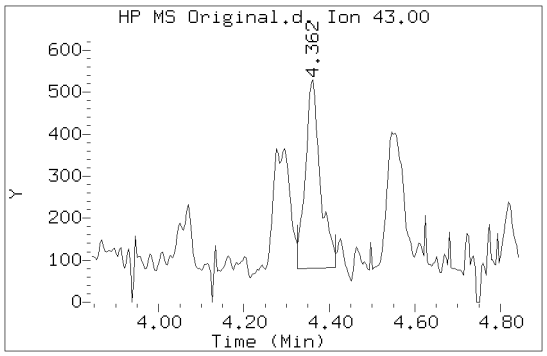


Vinyl Acetate (108-05-4)

Reason Code:

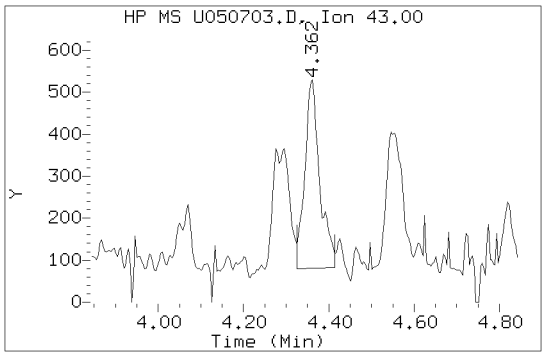
BEFORE

MASS
43
AREA
1116
HEIGHT
448
28-May-2024
09:17
tianna
smith



AFTER

MASS
43
AREA
1116
HEIGHT
448
28-May-2024
10:32



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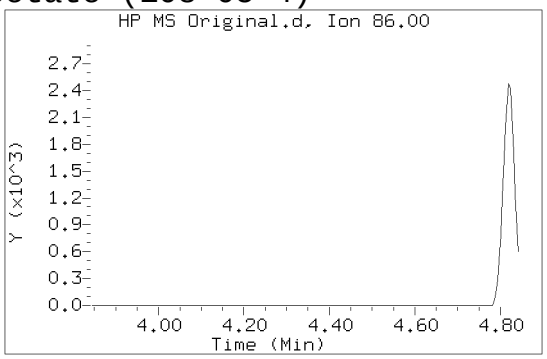
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

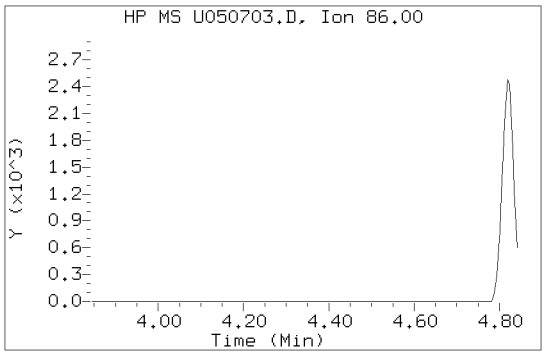
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



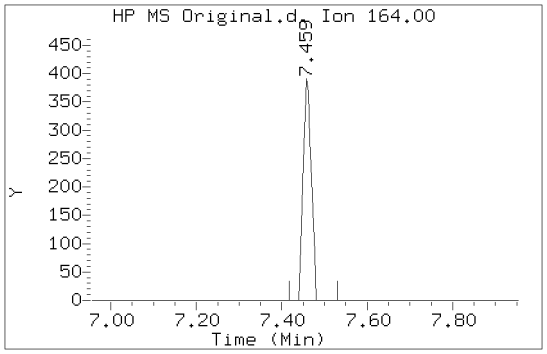
AFTER
MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32



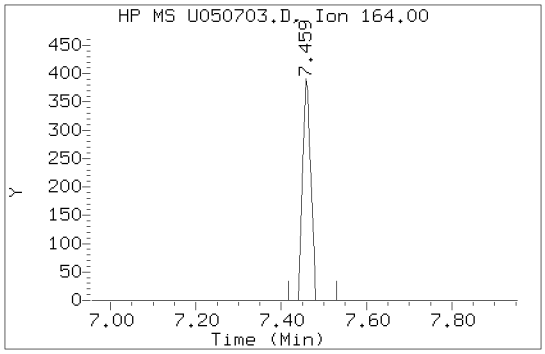
Tetrachloroethene (127-18-4)

Reason Code:

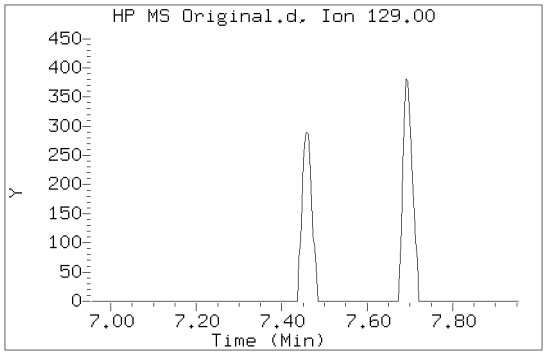
BEFORE
MASS
164
AREA
524
HEIGHT
391
28-May-2024
09:17
tianna
smith



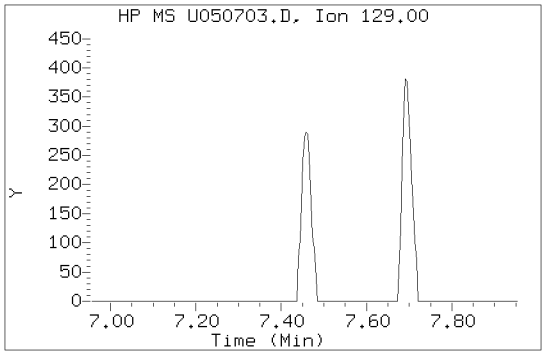
AFTER
MASS
164
AREA
524
HEIGHT
391
28-May-2024
10:32



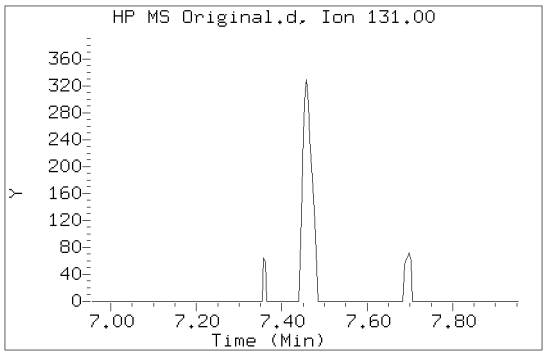
BEFORE
MASS
129
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



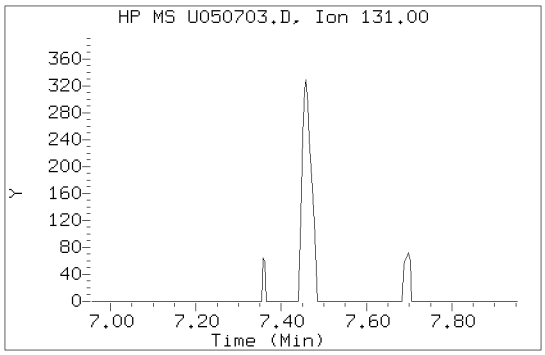
AFTER
MASS
129
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
131
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
131
AREA
0
HEIGHT
0
28-May-2024
10:32



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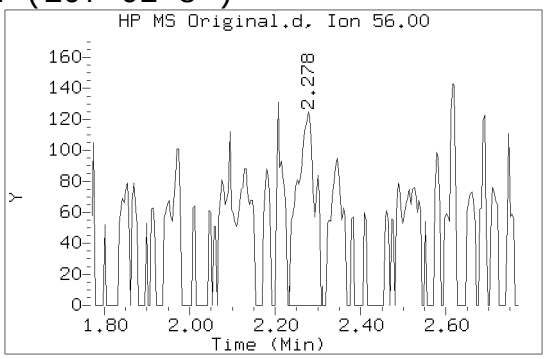
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

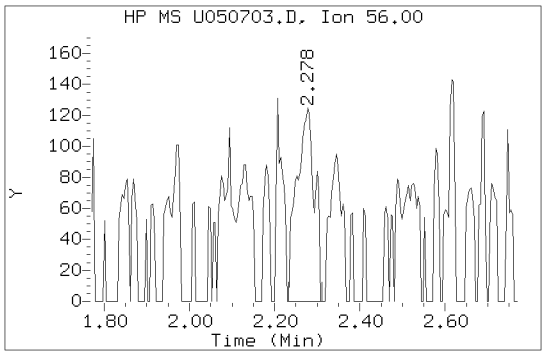
Acrolein (107-02-8)

Reason Code:

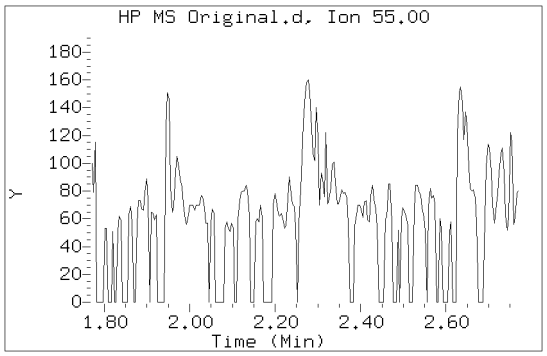
BEFORE
MASS
56
AREA
365
HEIGHT
125
28-May-2024
09:17
tianna
smith



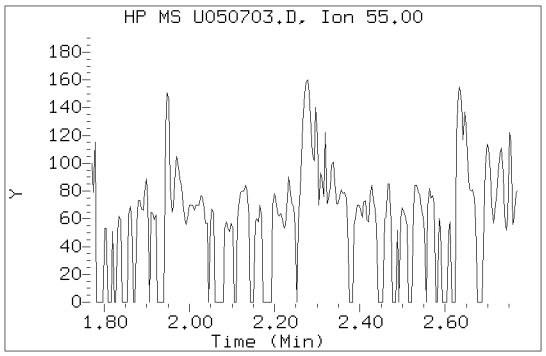
AFTER
MASS
56
AREA
365
HEIGHT
125
28-May-2024
10:32



BEFORE
MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



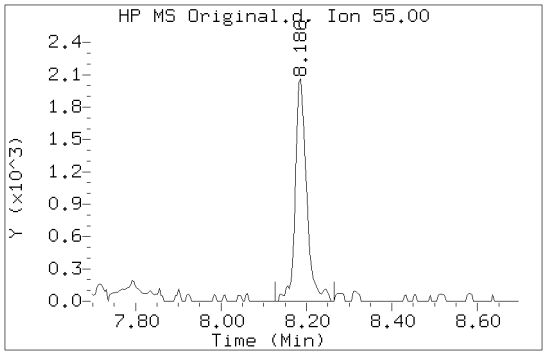
AFTER
MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32



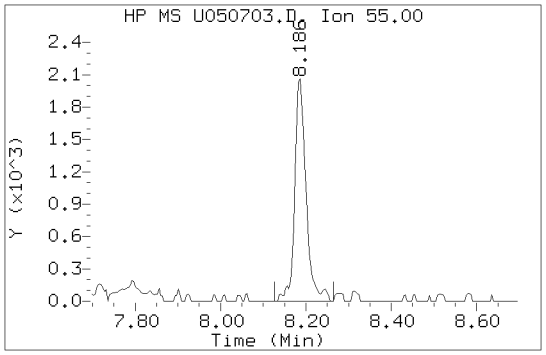
1-Chlorohexane (544-10-5)

Reason Code:

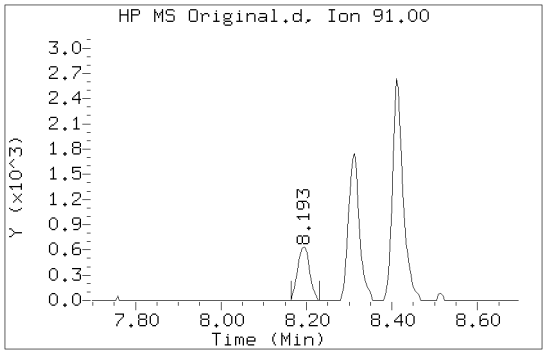
BEFORE
MASS
55
AREA
3861
HEIGHT
2061
28-May-2024
09:17
tianna
smith



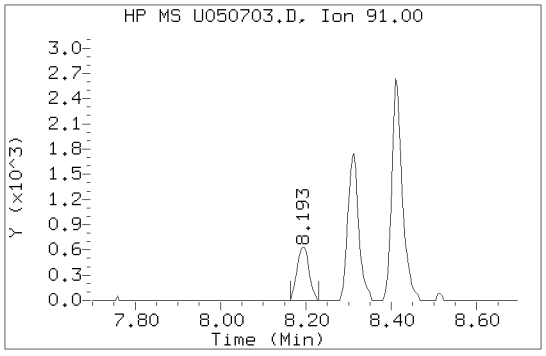
AFTER
MASS
55
AREA
3861
HEIGHT
2061
28-May-2024
10:32



BEFORE
MASS
91
AREA
1252
HEIGHT
631
28-May-2024
09:17
tianna
smith



AFTER
MASS
91
AREA
1252
HEIGHT
631
28-May-2024
10:32



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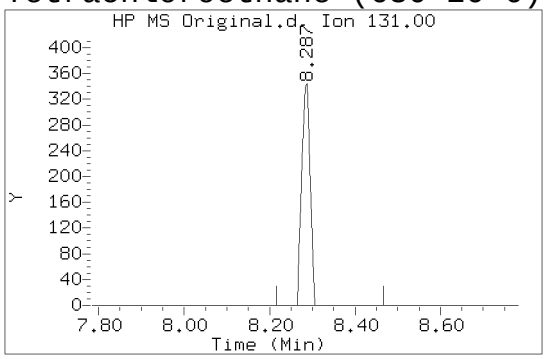
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

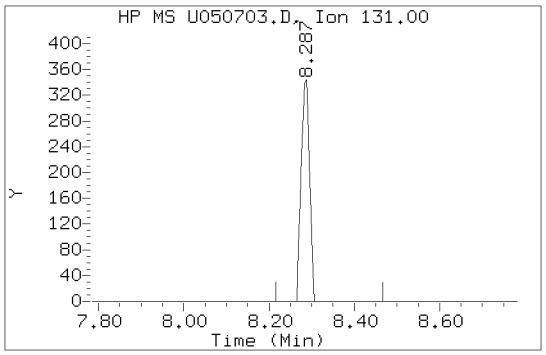
1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

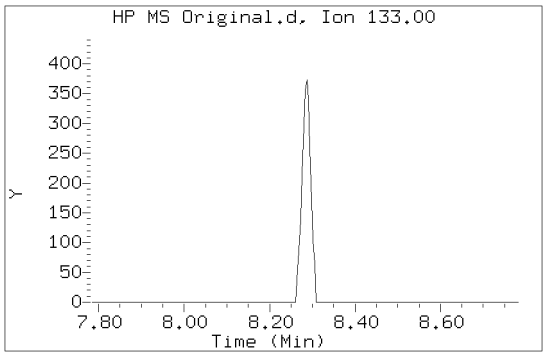
BEFORE
MASS
131
AREA
484
HEIGHT
344
28-May-2024
09:17
tianna
smith



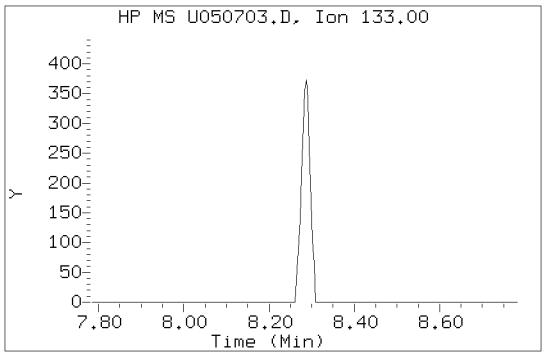
AFTER
MASS
131
AREA
484
HEIGHT
344
28-May-2024
10:32



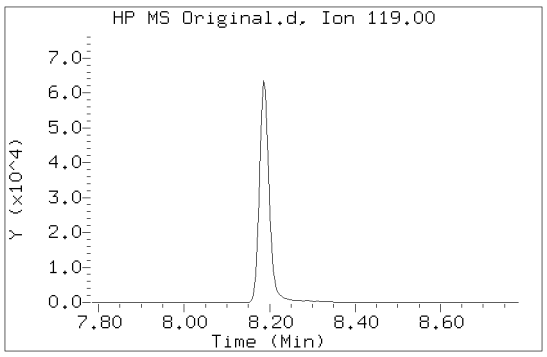
BEFORE
MASS
133
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



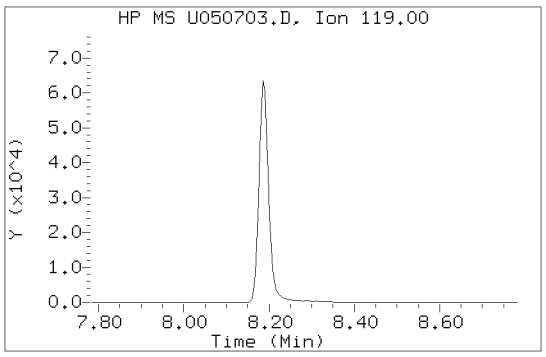
AFTER
MASS
133
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
119
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



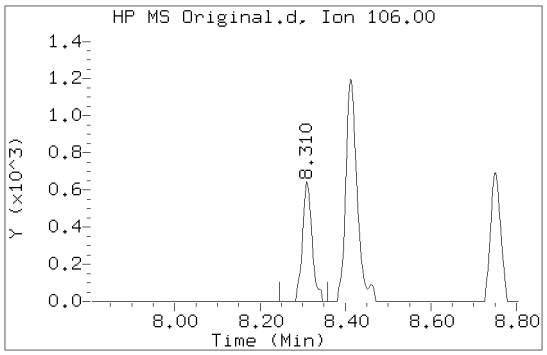
AFTER
MASS
119
AREA
0
HEIGHT
0
28-May-2024
10:32



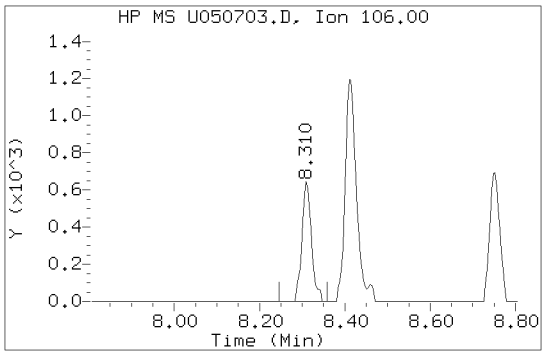
Ethylbenzene (100-41-4)

Reason Code:

BEFORE
MASS
106
AREA
1013
HEIGHT
644
28-May-2024
09:17
tianna
smith



AFTER
MASS
106
AREA
1013
HEIGHT
644
28-May-2024
10:32



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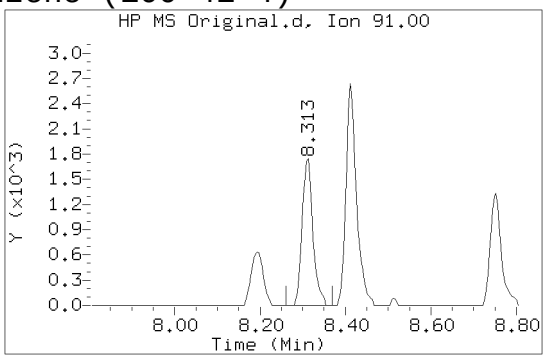
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

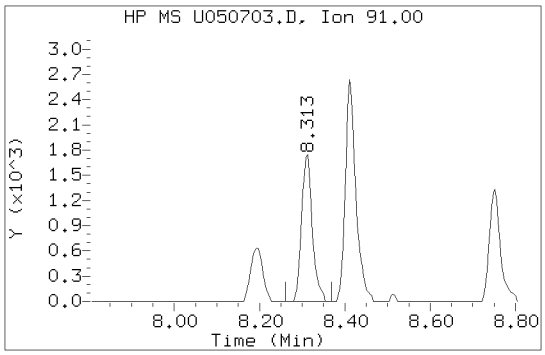
Ethylbenzene (100-41-4)

Reason Code:

BEFORE
MASS
91
AREA
3097
HEIGHT
1749
28-May-2024
09:17
tianna
smith



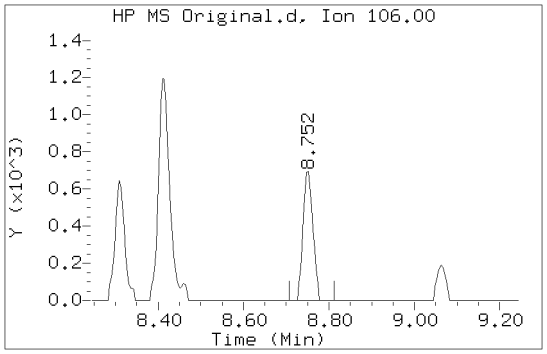
AFTER
MASS
91
AREA
3097
HEIGHT
1749
28-May-2024
10:32



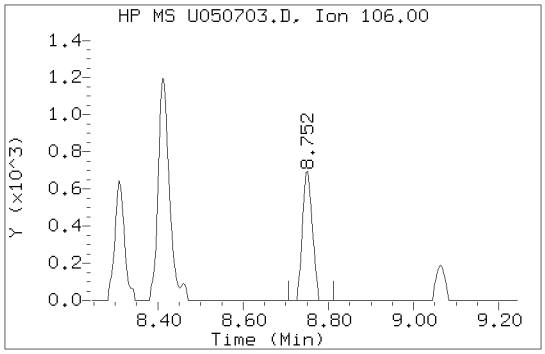
o-Xylene (95-47-6)

Reason Code:

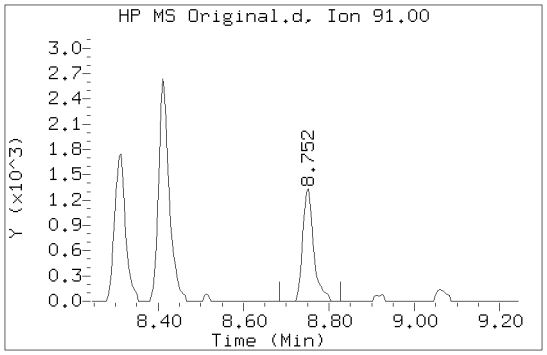
BEFORE
MASS
106
AREA
1129
HEIGHT
693
28-May-2024
09:17
tianna
smith



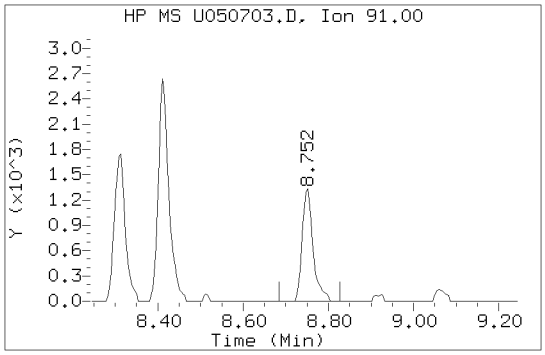
AFTER
MASS
106
AREA
1129
HEIGHT
693
28-May-2024
10:32



BEFORE
MASS
91
AREA
2403
HEIGHT
1335
28-May-2024
09:17
tianna
smith



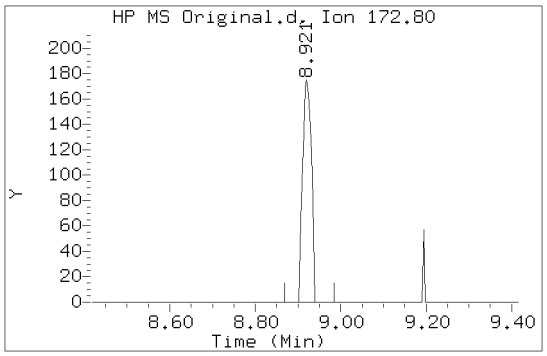
AFTER
MASS
91
AREA
2403
HEIGHT
1335
28-May-2024
10:32



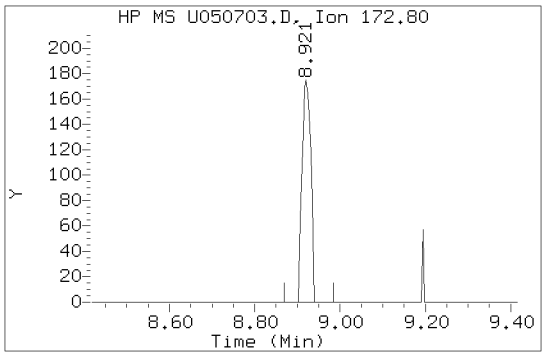
Bromoform (75-25-2)

Reason Code:

BEFORE
MASS
172.8
AREA
257
HEIGHT
175
28-May-2024
09:17
tianna
smith



AFTER
MASS
172.8
AREA
257
HEIGHT
175
28-May-2024
10:32



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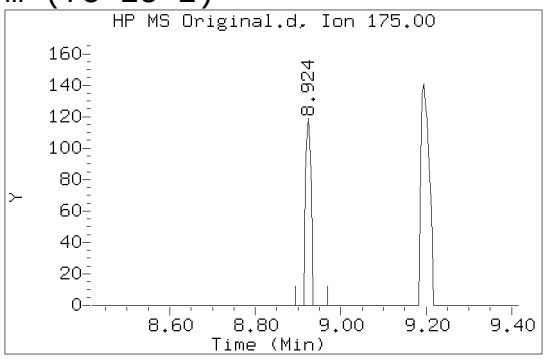
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

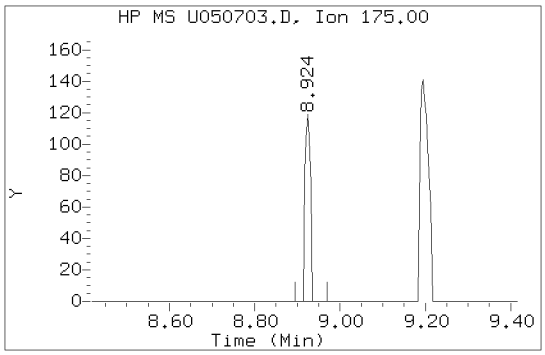
Bromoform (75-25-2)

Reason Code:

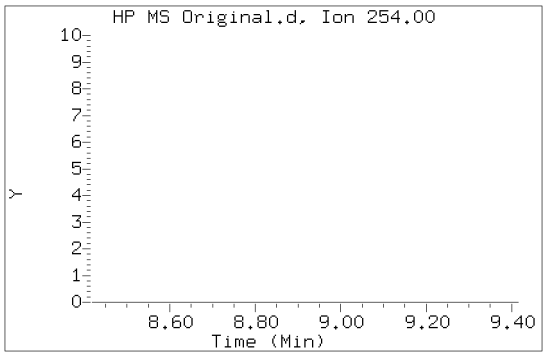
BEFORE
MASS
175
AREA
108
HEIGHT
119
28-May-2024
09:17
tianna
smith



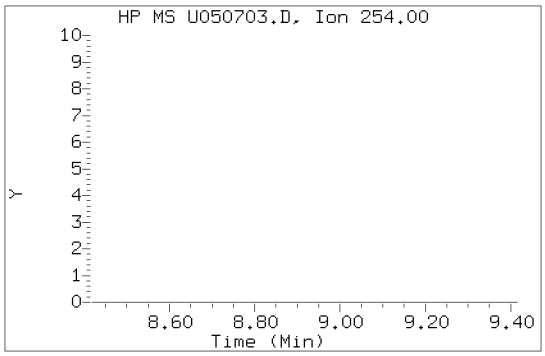
AFTER
MASS
175
AREA
108
HEIGHT
119
28-May-2024
10:32



BEFORE
MASS
254
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



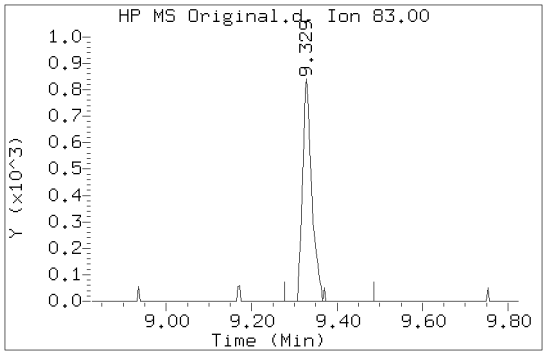
AFTER
MASS
254
AREA
0
HEIGHT
0
28-May-2024
10:32



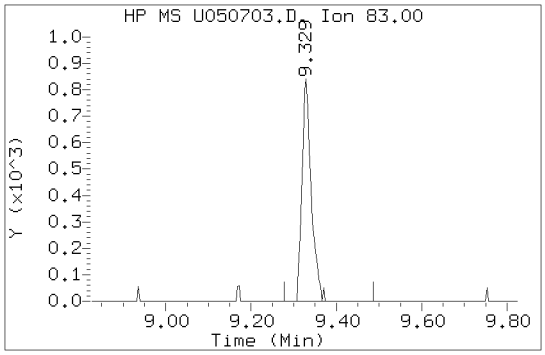
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

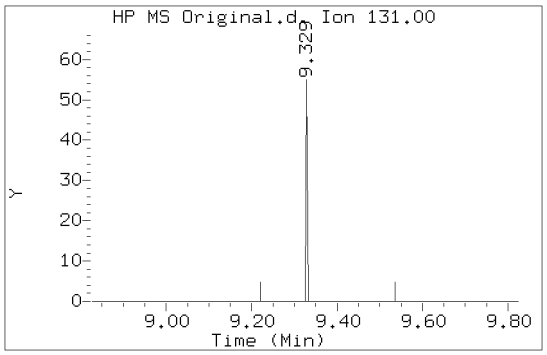
BEFORE
MASS
83
AREA
1306
HEIGHT
841
28-May-2024
09:17
tianna
smith



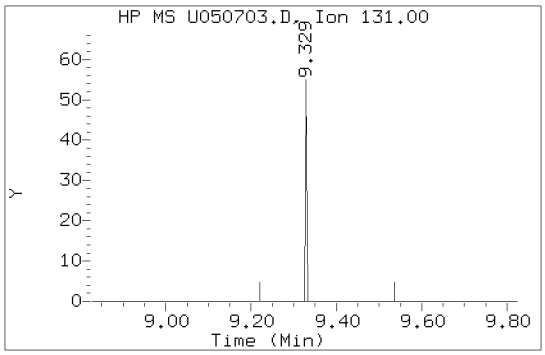
AFTER
MASS
83
AREA
1306
HEIGHT
841
28-May-2024
10:32



BEFORE
MASS
131
AREA
12
HEIGHT
55
28-May-2024
09:17
tianna
smith



AFTER
MASS
131
AREA
12
HEIGHT
55
28-May-2024
10:32



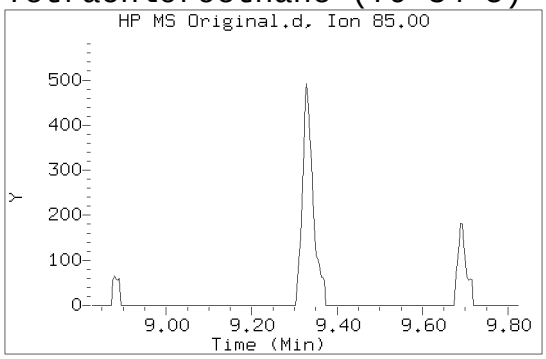
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

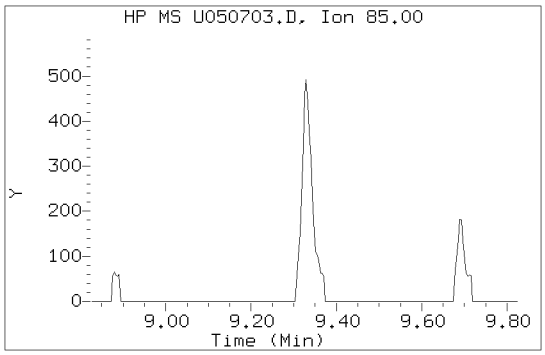
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32

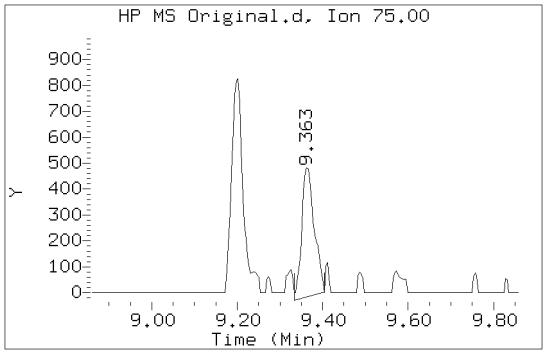


1,2,3-Trichloropropane (96-18-4)

Reason Code:

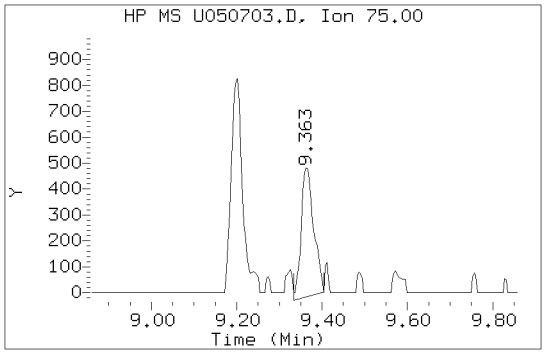
BEFORE

MASS
75
AREA
1035
HEIGHT
499
28-May-2024
09:17
tianna
smith



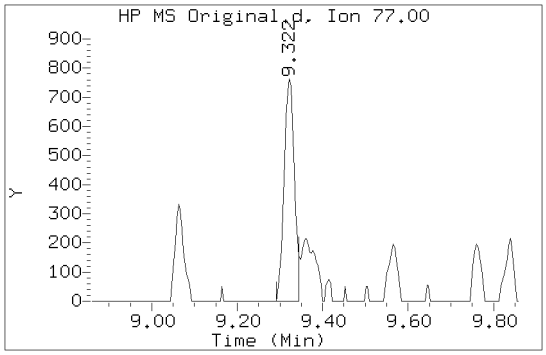
AFTER

MASS
75
AREA
1035
HEIGHT
499
28-May-2024
10:32



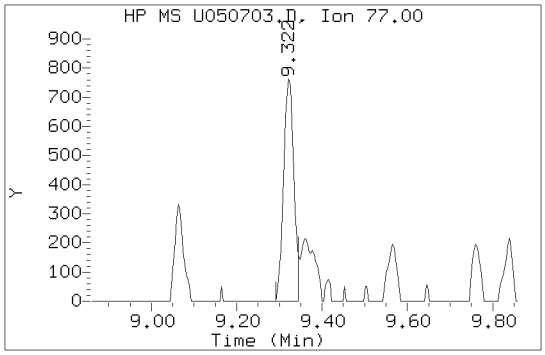
BEFORE

MASS
77
AREA
1283
HEIGHT
763
28-May-2024
09:17
tianna
smith



AFTER

MASS
77
AREA
1283
HEIGHT
763
28-May-2024
10:32

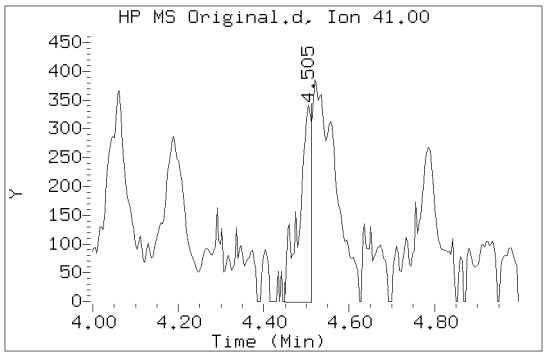


Methacrylonitrile (126-98-7)

Reason Code:

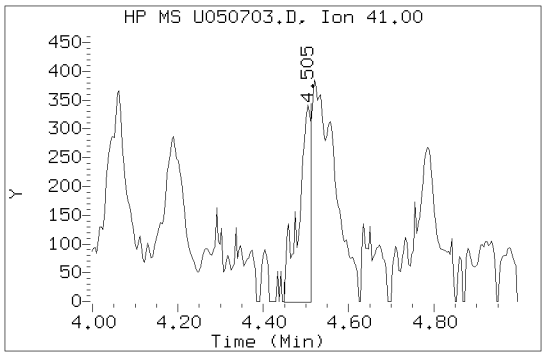
BEFORE

MASS
41
AREA
697
HEIGHT
343
28-May-2024
09:17
tianna
smith



AFTER

MASS
41
AREA
697
HEIGHT
343
28-May-2024
10:32

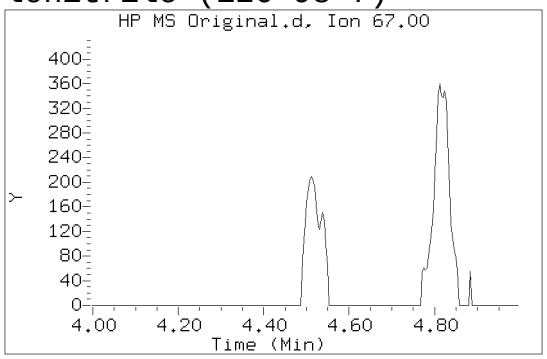


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

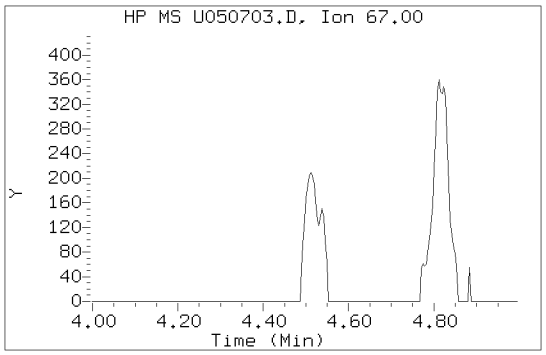
Methacrylonitrile (126-98-7)

Reason Code:

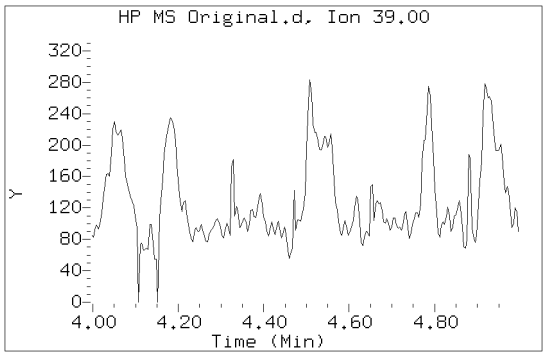
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



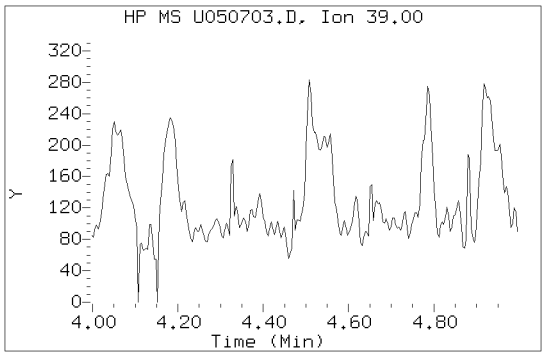
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



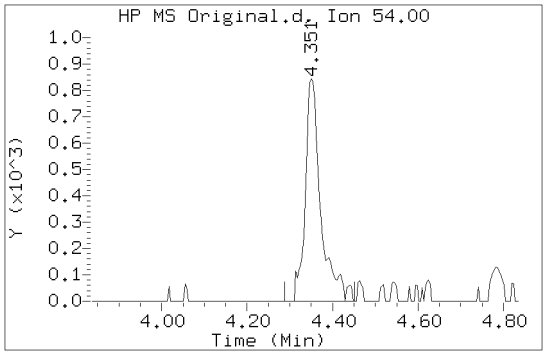
AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32



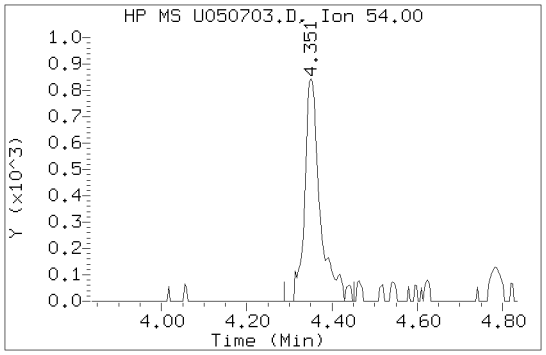
Propionitrile (107-12-0)

Reason Code:

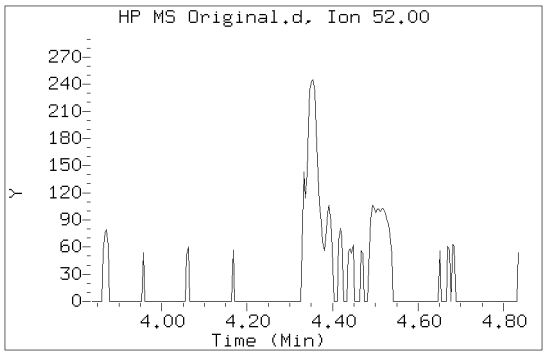
BEFORE
MASS
54
AREA
2175
HEIGHT
844
28-May-2024
09:17
tianna
smith



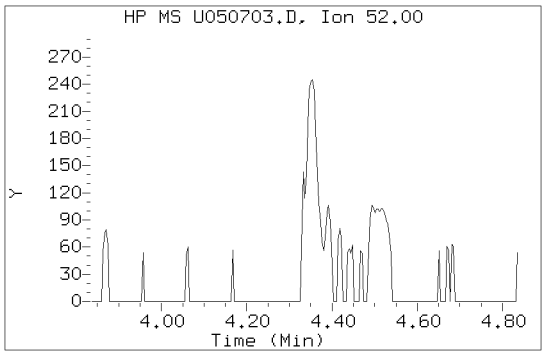
AFTER
MASS
54
AREA
2175
HEIGHT
844
28-May-2024
10:32



BEFORE
MASS
52
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
52
AREA
0
HEIGHT
0
28-May-2024
10:32



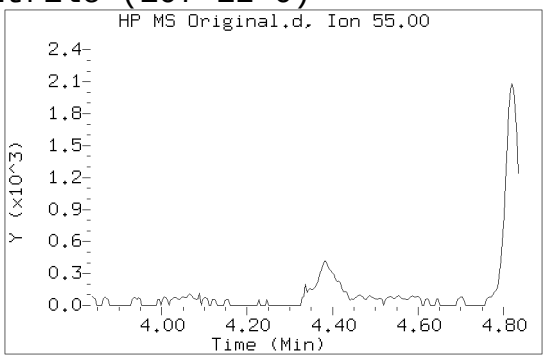
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

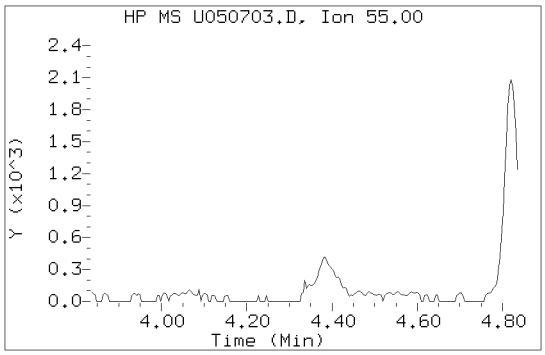
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32

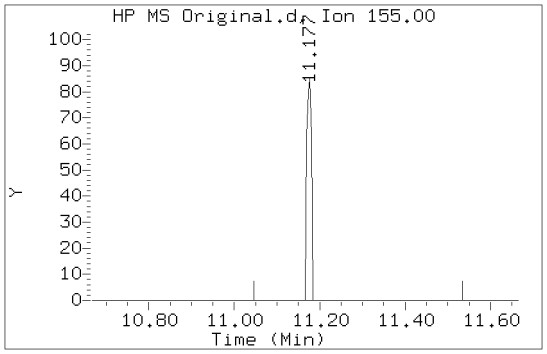


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

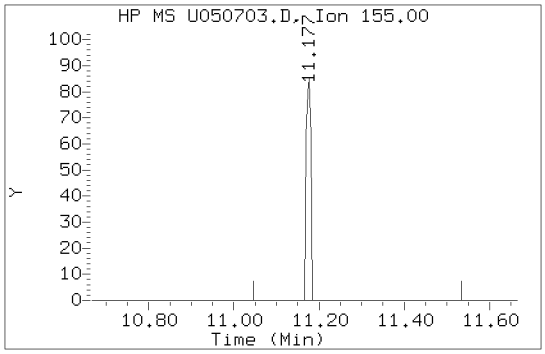
BEFORE

MASS
155
AREA
65
HEIGHT
85
28-May-2024
09:17
tianna
smith



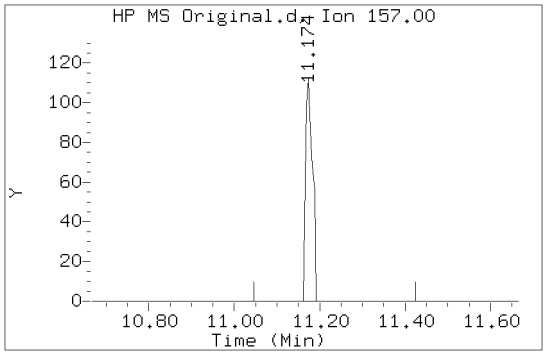
AFTER

MASS
155
AREA
65
HEIGHT
85
28-May-2024
10:32



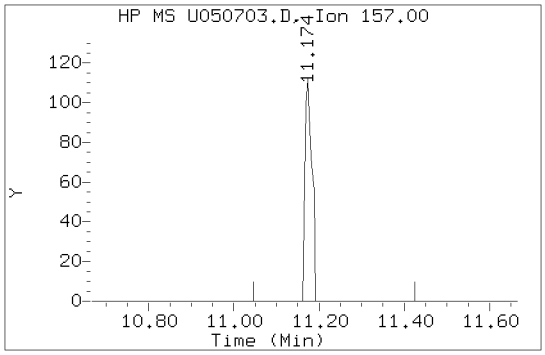
BEFORE

MASS
157
AREA
125
HEIGHT
112
28-May-2024
09:17
tianna
smith



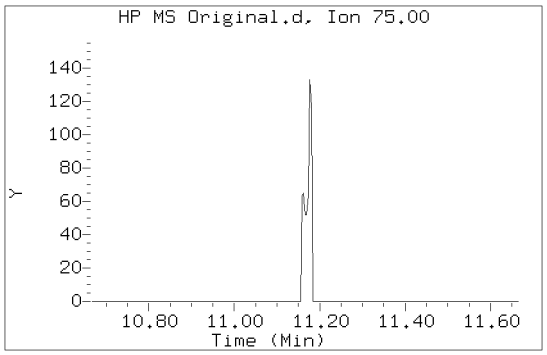
AFTER

MASS
157
AREA
125
HEIGHT
112
28-May-2024
10:32



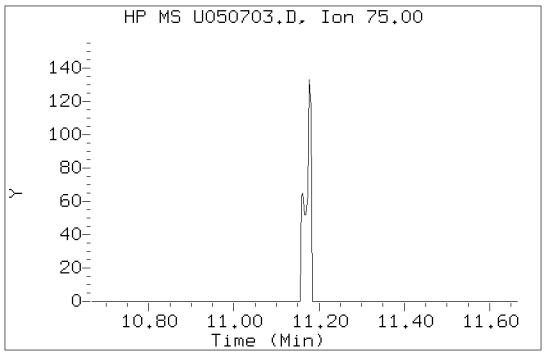
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32

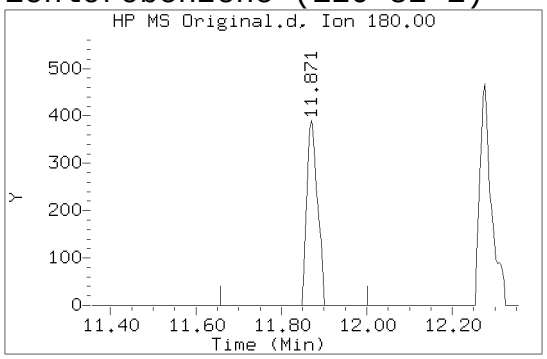


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

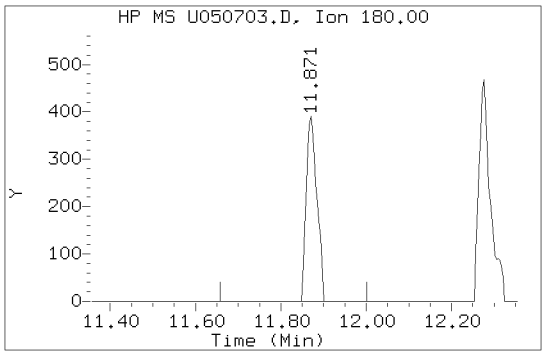
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

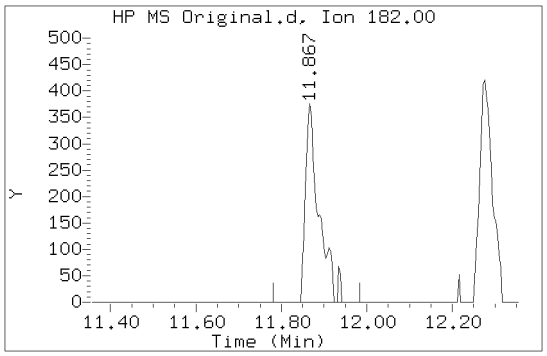
BEFORE
MASS
180
AREA
693
HEIGHT
391
28-May-2024
09:17
tianna
smith



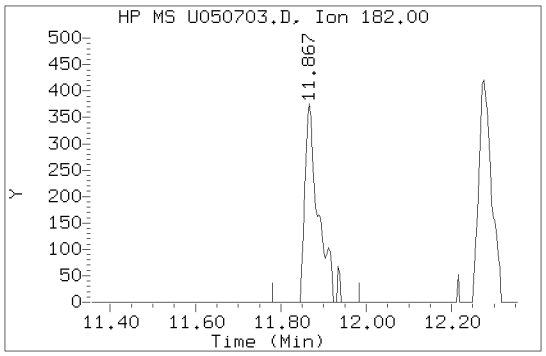
AFTER
MASS
180
AREA
693
HEIGHT
391
28-May-2024
10:32



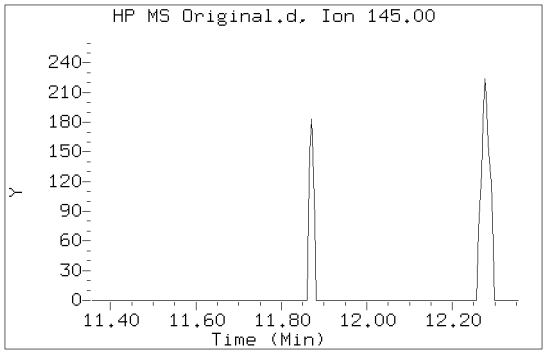
BEFORE
MASS
182
AREA
838
HEIGHT
376
28-May-2024
09:17
tianna
smith



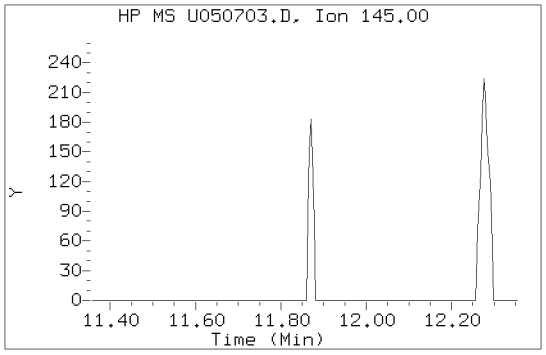
AFTER
MASS
182
AREA
838
HEIGHT
376
28-May-2024
10:32



BEFORE
MASS
145
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



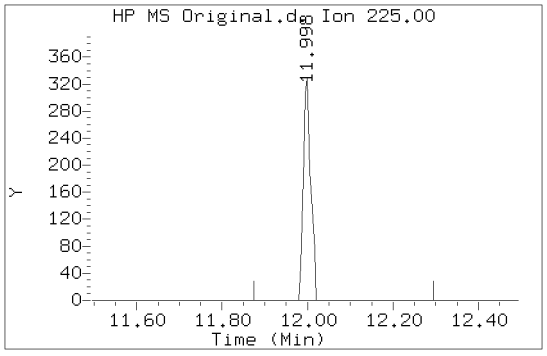
AFTER
MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32



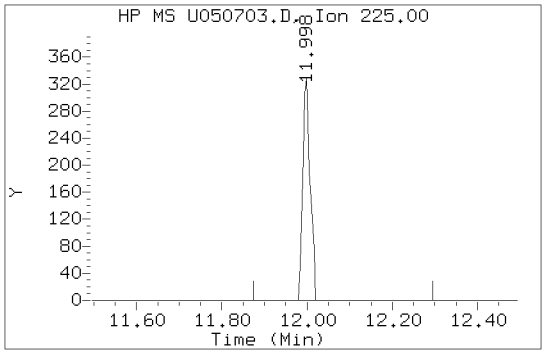
Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE
MASS
225
AREA
408
HEIGHT
328
28-May-2024
09:17
tianna
smith



AFTER
MASS
225
AREA
408
HEIGHT
328
28-May-2024
10:32



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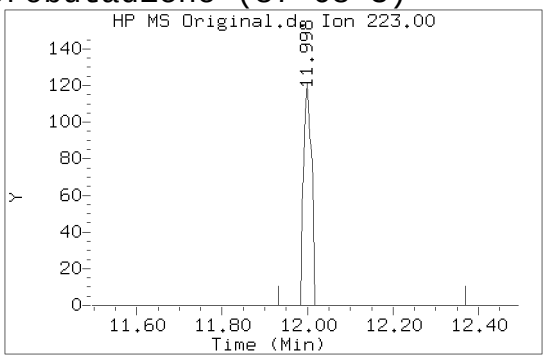
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

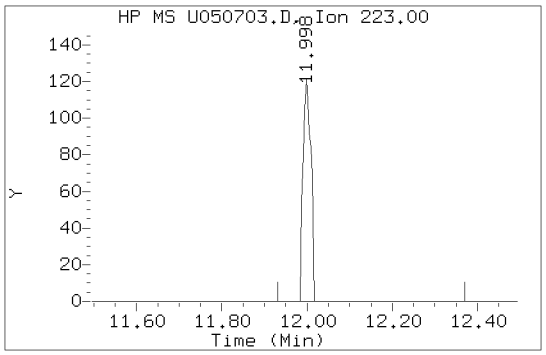
BEFORE

MASS
223
AREA
160
HEIGHT
121
28-May-2024
09:17
tianna
smith



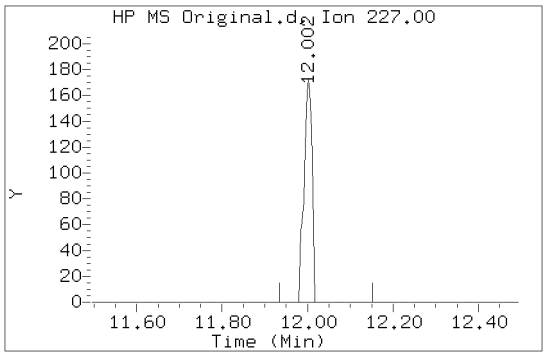
AFTER

MASS
223
AREA
160
HEIGHT
121
28-May-2024
10:32



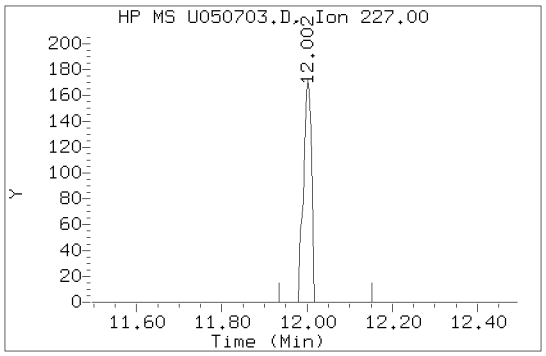
BEFORE

MASS
227
AREA
232
HEIGHT
172
28-May-2024
09:17
tianna
smith



AFTER

MASS
227
AREA
232
HEIGHT
172
28-May-2024
10:32

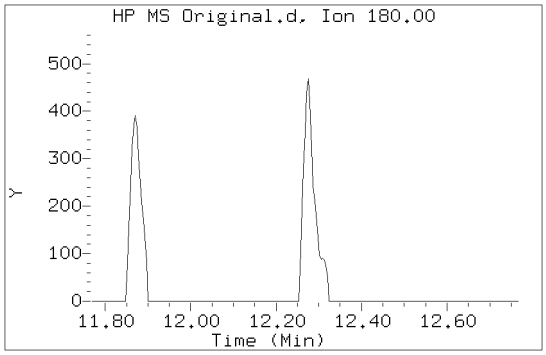


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

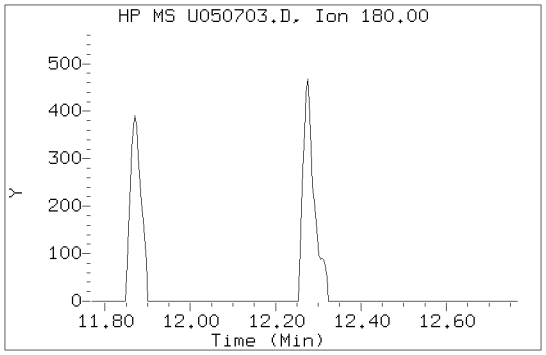
BEFORE

MASS
180
AREA
865
HEIGHT
468
28-May-2024
09:17
tianna
smith



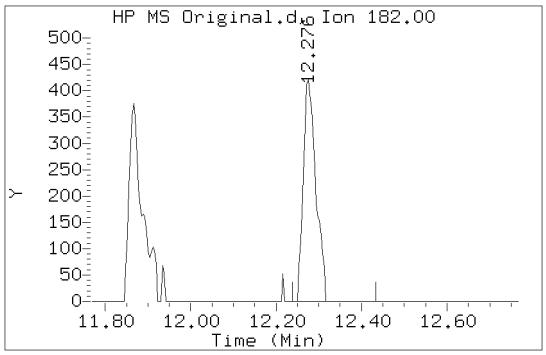
AFTER

MASS
180
AREA
865
HEIGHT
468
28-May-2024
10:32



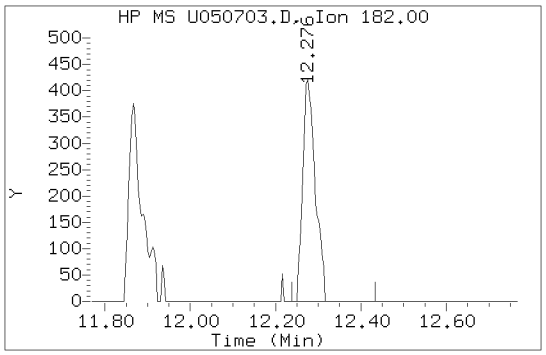
BEFORE

MASS
182
AREA
870
HEIGHT
421
28-May-2024
09:17
tianna
smith



AFTER

MASS
182
AREA
870
HEIGHT
421
28-May-2024
10:32



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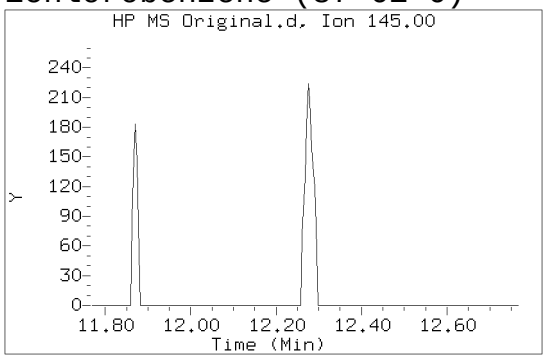
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

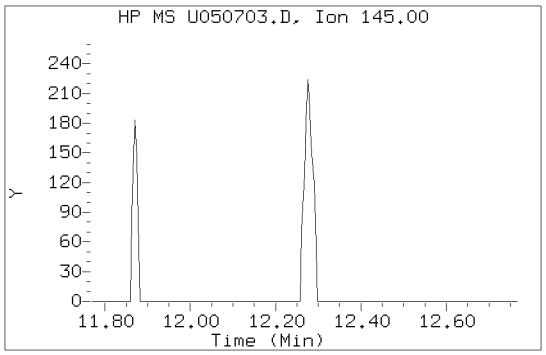
BEFORE

MASS
145
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32

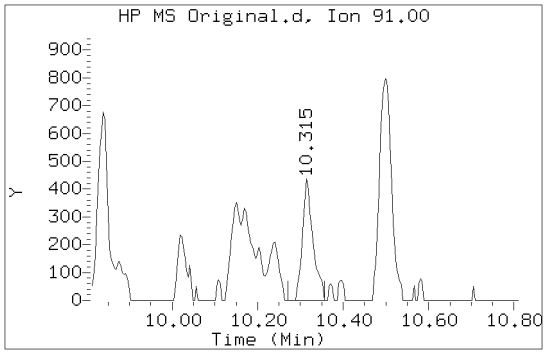


Benzyl Chloride (100-44-7)

Reason Code:

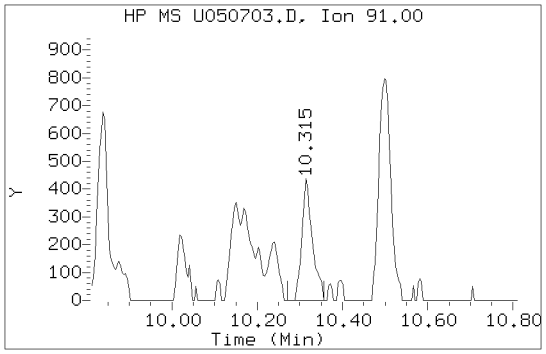
BEFORE

MASS
91
AREA
759
HEIGHT
438
28-May-2024
09:17
tianna
smith



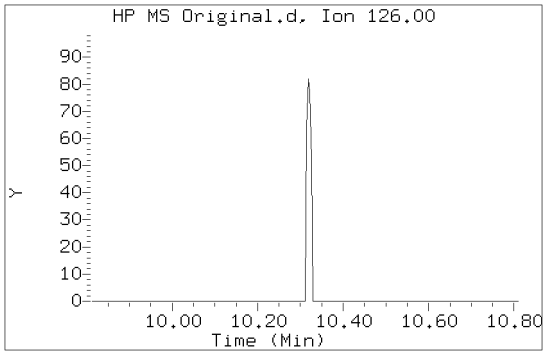
AFTER

MASS
91
AREA
759
HEIGHT
438
28-May-2024
10:32



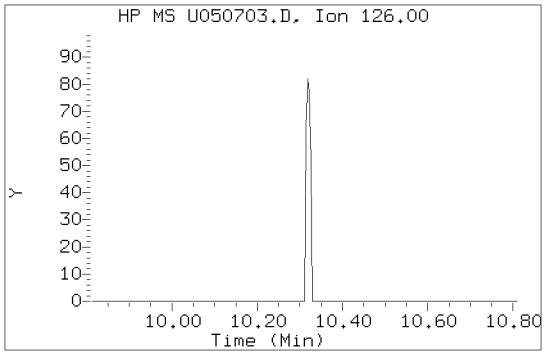
BEFORE

MASS
126
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



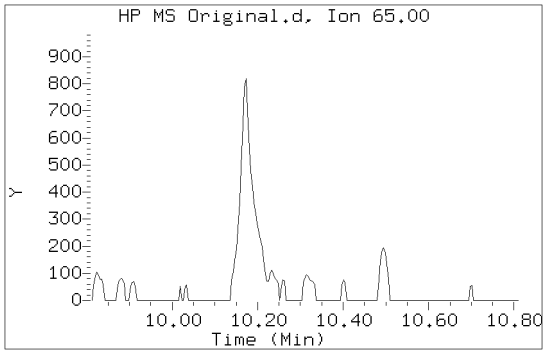
AFTER

MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32



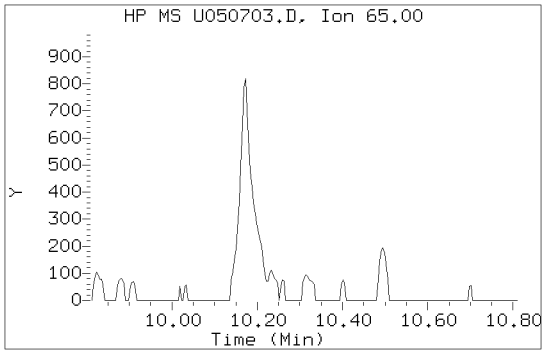
BEFORE

MASS
65
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32



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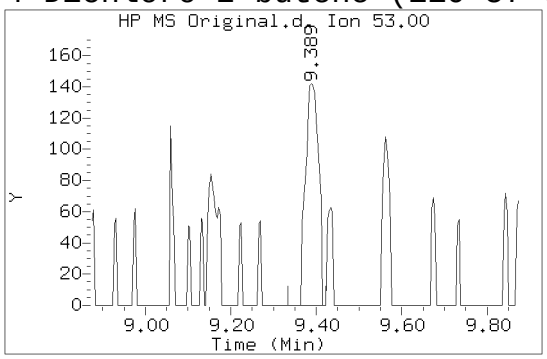
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

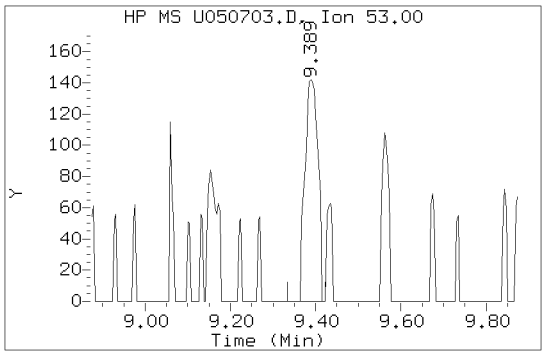
BEFORE

MASS
53
AREA
306
HEIGHT
142
28-May-2024
09:17
tianna
smith



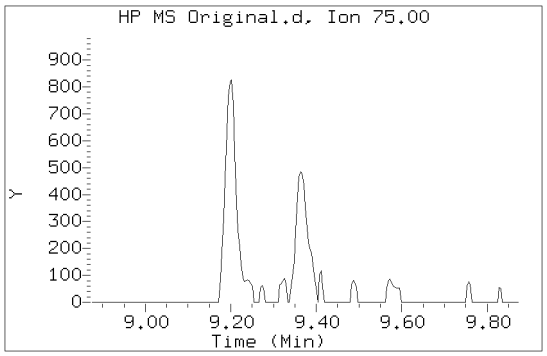
AFTER

MASS
53
AREA
306
HEIGHT
142
28-May-2024
10:32



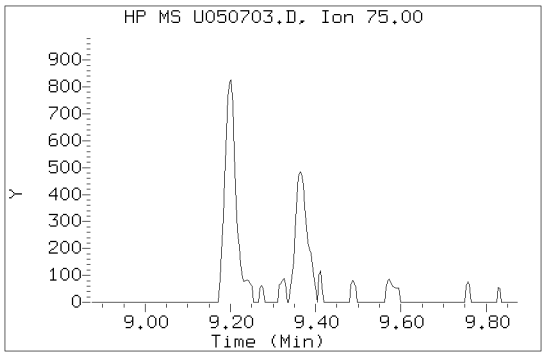
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32

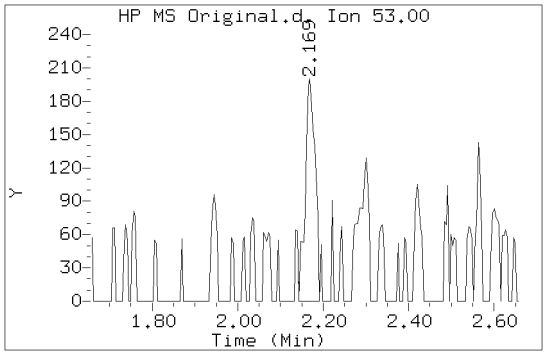


Chloroprene (126-99-8)

Reason Code:

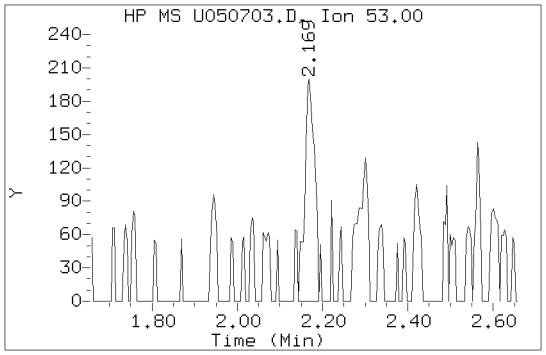
BEFORE

MASS
53
AREA
322
HEIGHT
200
28-May-2024
09:17
tianna
smith



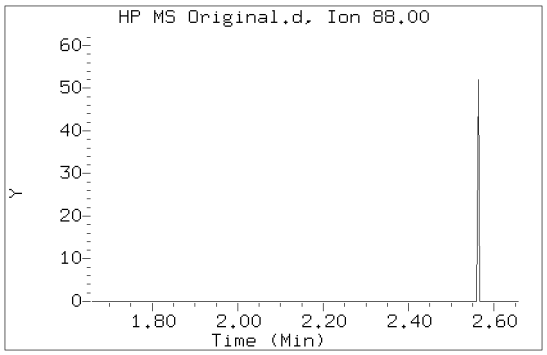
AFTER

MASS
53
AREA
322
HEIGHT
200
28-May-2024
10:32



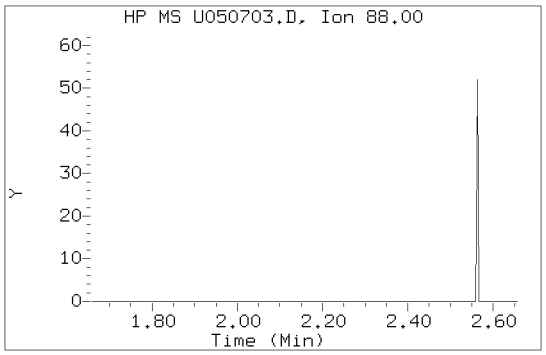
BEFORE

MASS
88
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32



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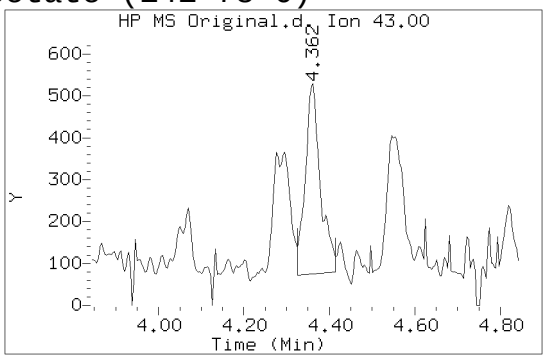
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

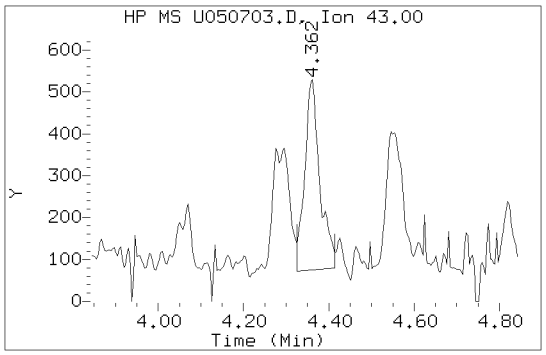
BEFORE

MASS
43
AREA
1144
HEIGHT
454
28-May-2024
09:17
tianna
smith



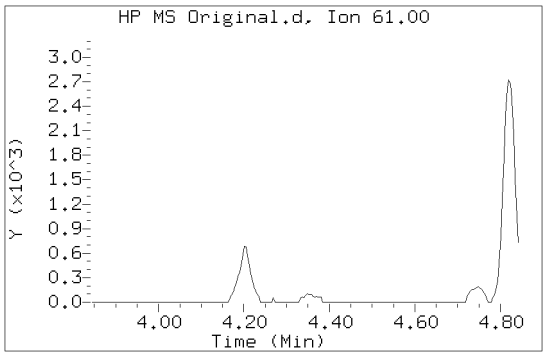
AFTER

MASS
43
AREA
1144
HEIGHT
454
28-May-2024
10:32



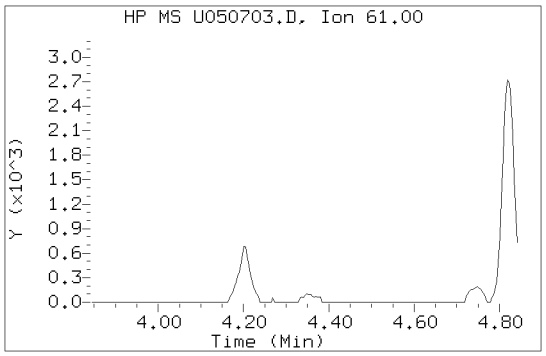
BEFORE

MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



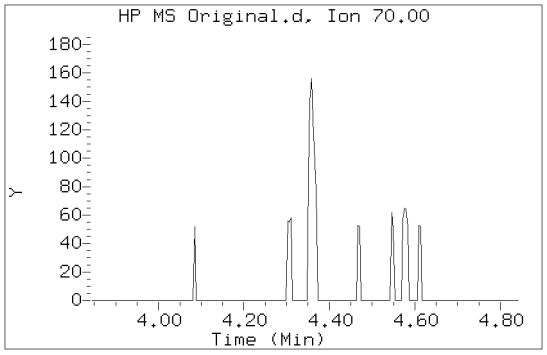
AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



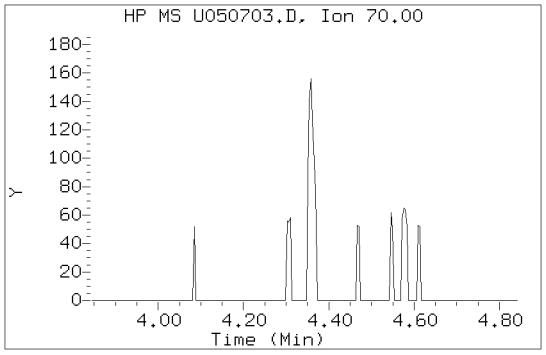
BEFORE

MASS
70
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32

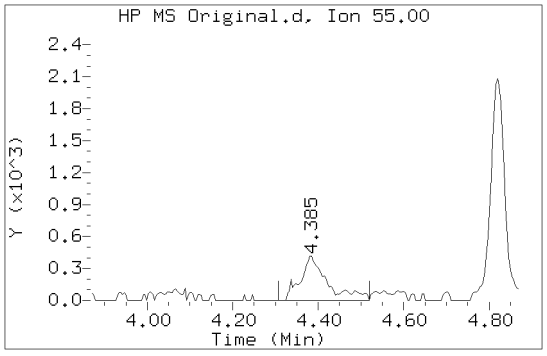


Methyl Acrylate (96-33-3)

Reason Code:

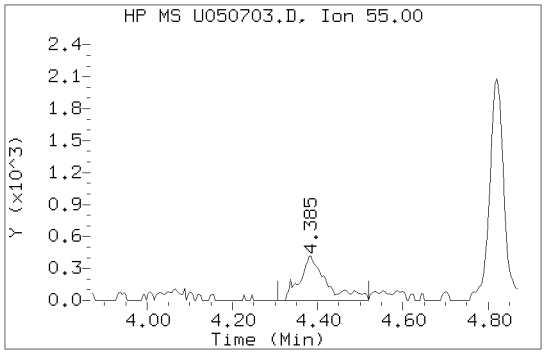
BEFORE

MASS
55
AREA
1823
HEIGHT
418
28-May-2024
09:17
tianna
smith



AFTER

MASS
55
AREA
1823
HEIGHT
418
28-May-2024
10:32



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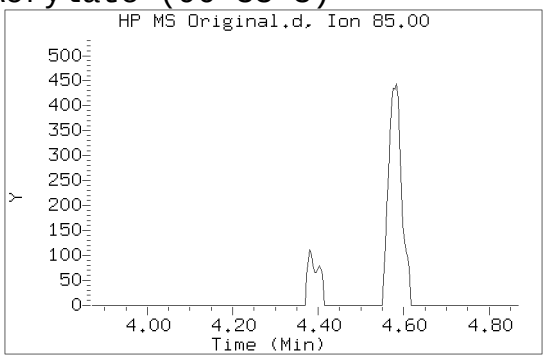
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

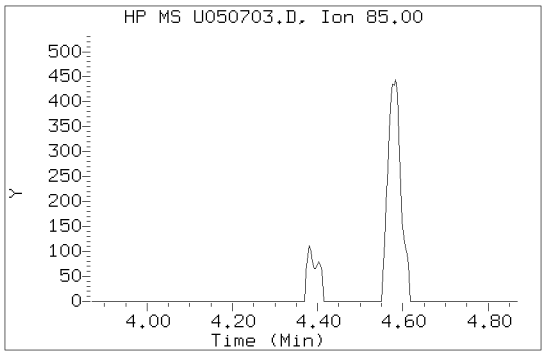
BEFORE

MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32

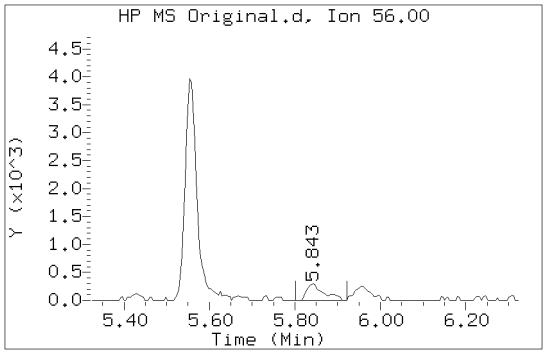


n-Butanol (71-36-3)

Reason Code:

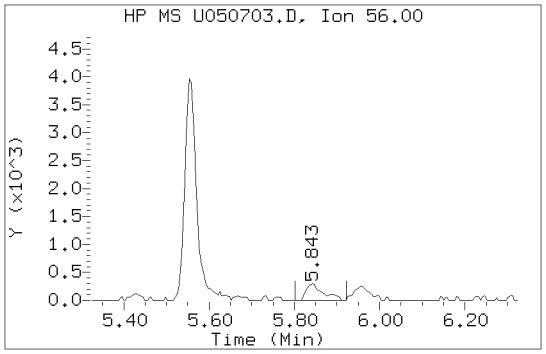
BEFORE

MASS
56
AREA
818
HEIGHT
299
28-May-2024
09:17
tianna
smith



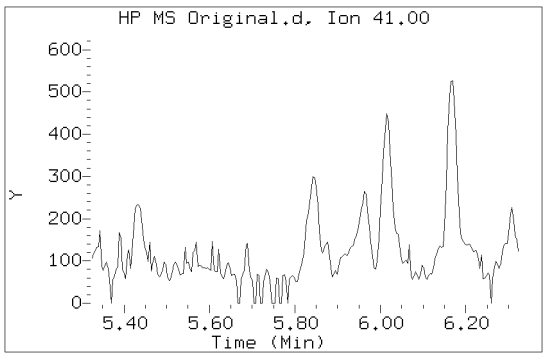
AFTER

MASS
56
AREA
818
HEIGHT
299
28-May-2024
10:32



BEFORE

MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

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HEIGHT
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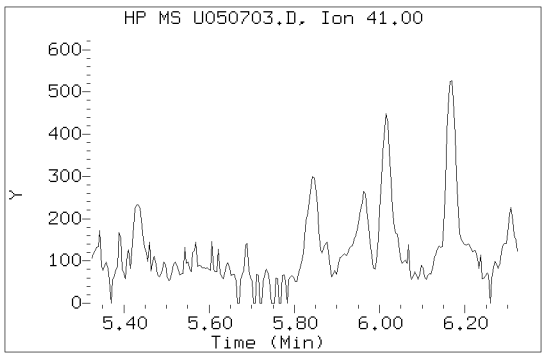
28-May-2024
10:32

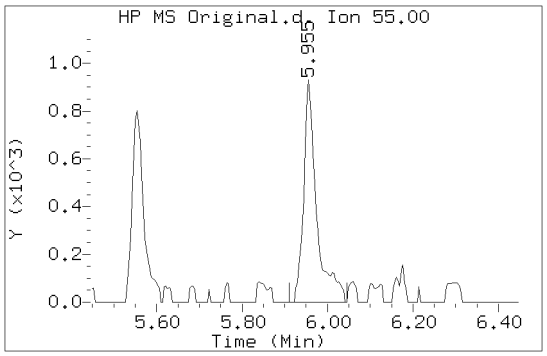


Ethyl Acrylate (140-88-5)

Reason Code:

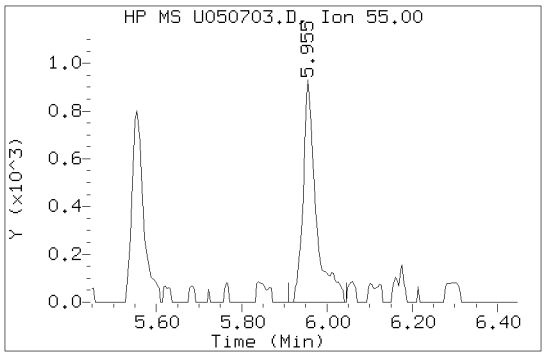
BEFORE

MASS
55
AREA
2007
HEIGHT
930
28-May-2024
09:17
tianna
smith



AFTER

MASS
55
AREA
2007
HEIGHT
930
28-May-2024
10:32



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Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

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99
AREA
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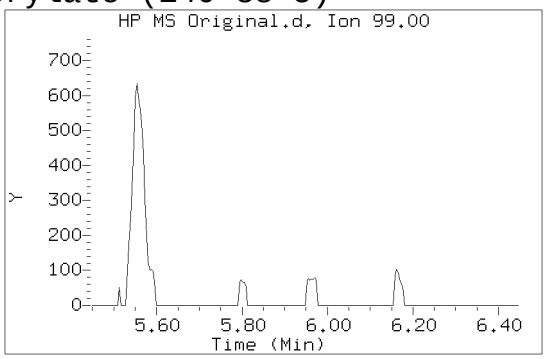
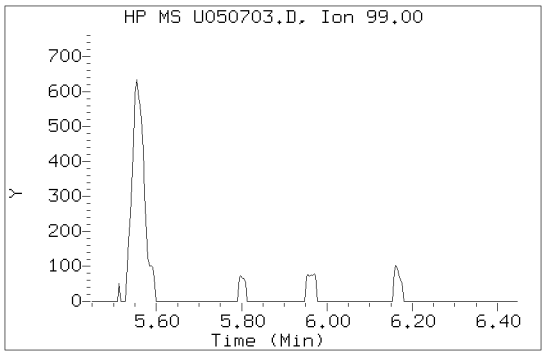
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32



Cyclohexanone (108-94-1)

Reason Code:

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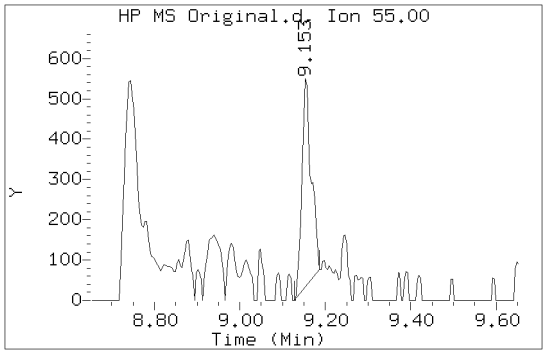
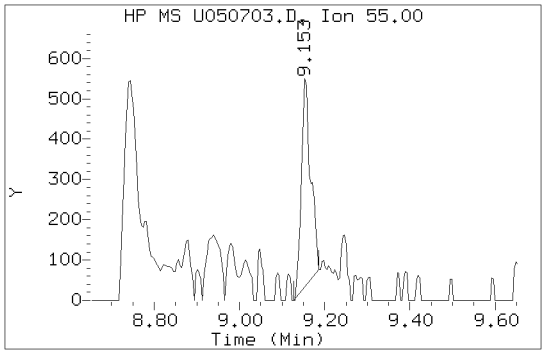
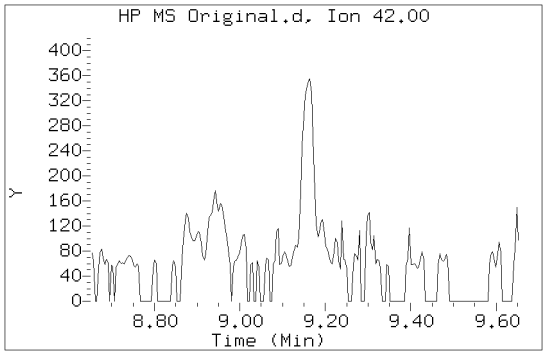
MASS
55
AREA
789
HEIGHT
516
28-May-2024
09:17
tianna
smith



AFTER
MASS
55
AREA
789
HEIGHT
516
28-May-2024
10:32



BEFORE
MASS
42
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
42
AREA
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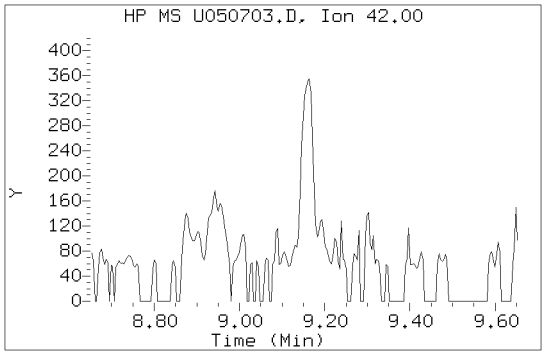
HEIGHT
0
28-May-2024
10:32



BEFORE
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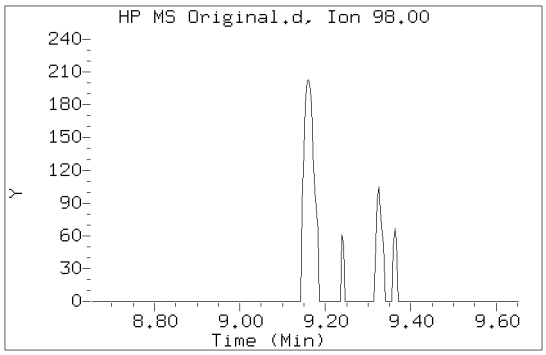
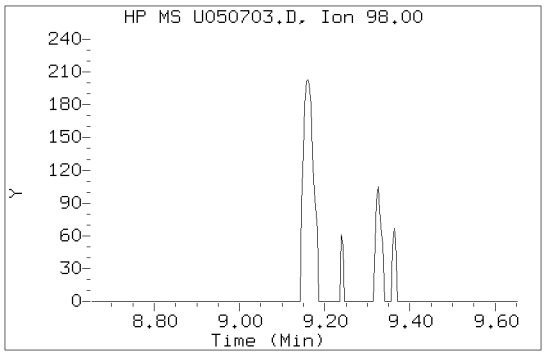
98
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
98
AREA
0
HEIGHT
0
28-May-2024
10:32



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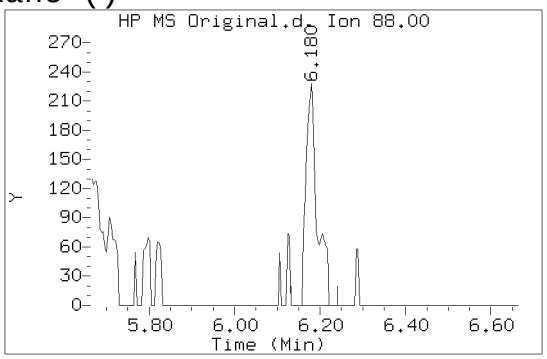
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

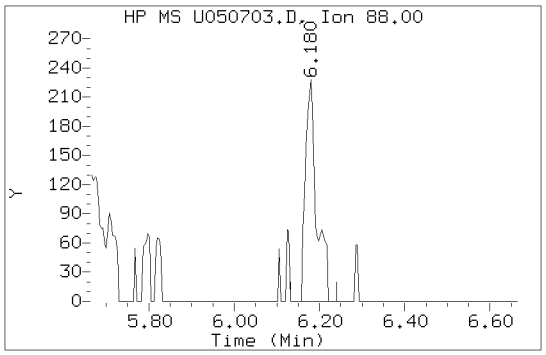
1,4-Dioxane ()

Reason Code:

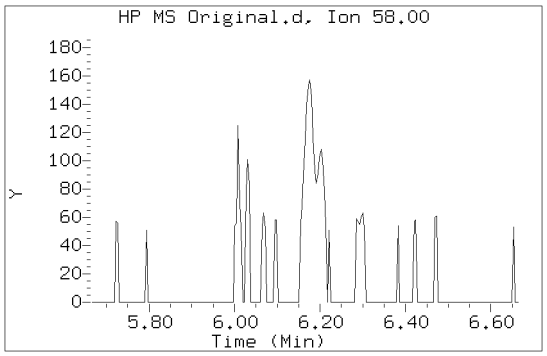
BEFORE
MASS
88
AREA
412
HEIGHT
228
28-May-2024
09:17
tianna
smith



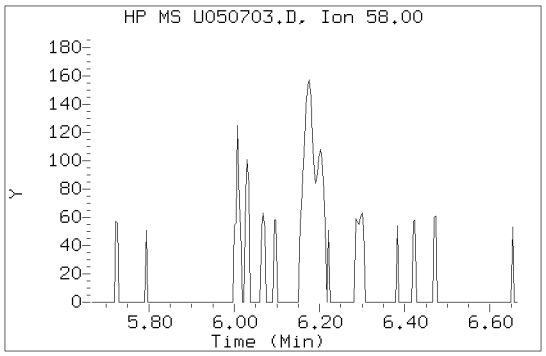
AFTER
MASS
88
AREA
412
HEIGHT
228
28-May-2024
10:32



BEFORE
MASS
58
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



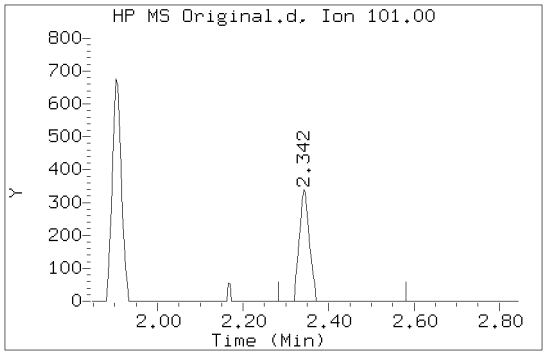
AFTER
MASS
58
AREA
0
HEIGHT
0
28-May-2024
10:32



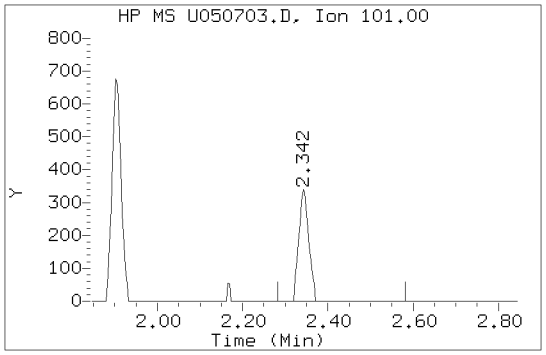
Freon TF (76-13-1)

Reason Code:

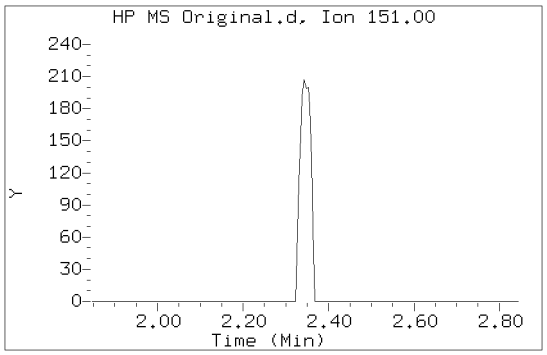
BEFORE
MASS
101
AREA
567
HEIGHT
341
28-May-2024
09:17
tianna
smith



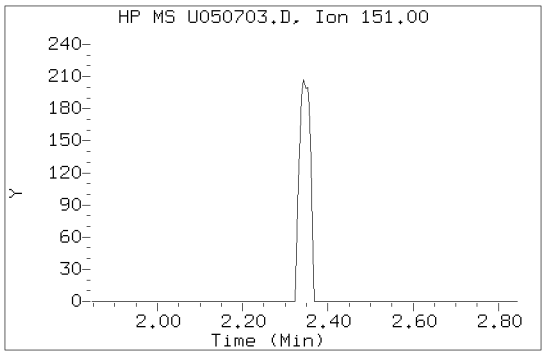
AFTER
MASS
101
AREA
567
HEIGHT
341
28-May-2024
10:32



BEFORE
MASS
151
AREA
385
HEIGHT
207
28-May-2024
09:17
tianna
smith



AFTER
MASS
151
AREA
385
HEIGHT
207
28-May-2024
10:32



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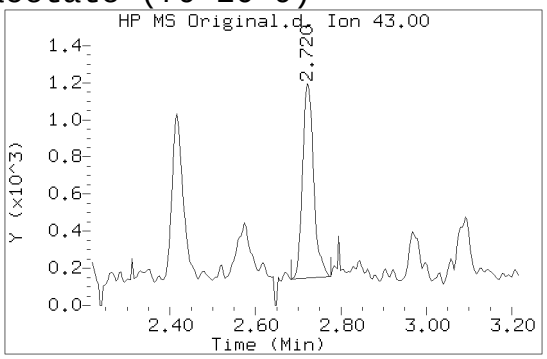
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

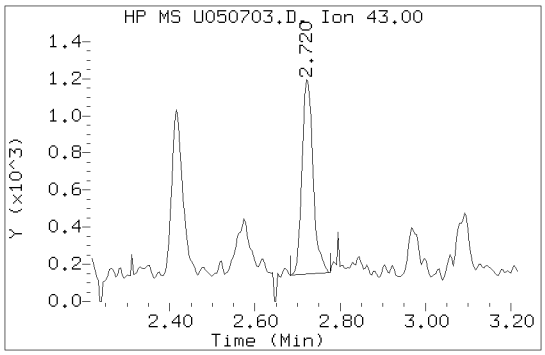
Methyl acetate (79-20-9)

Reason Code:

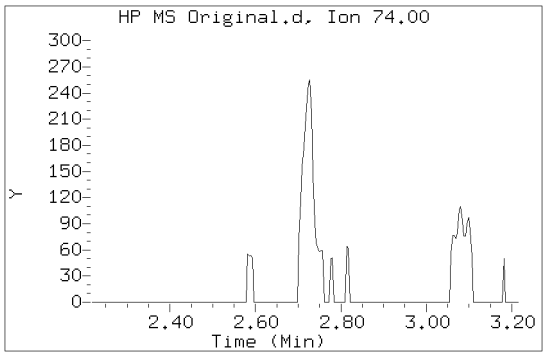
BEFORE
MASS
43
AREA
1937
HEIGHT
1048
28-May-2024
09:17
tianna
smith



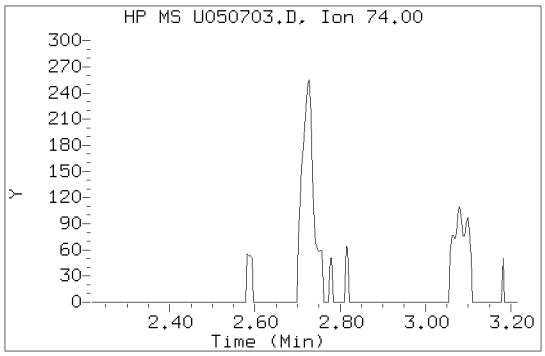
AFTER
MASS
43
AREA
1937
HEIGHT
1048
28-May-2024
10:32



BEFORE
MASS
74
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



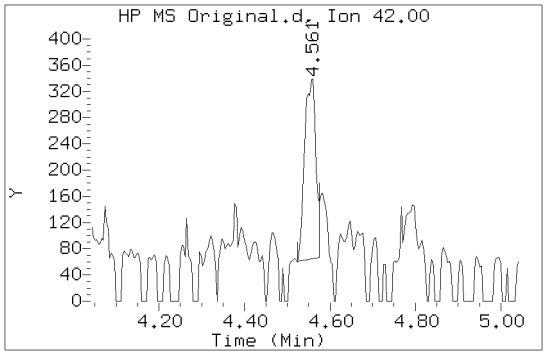
AFTER
MASS
74
AREA
0
HEIGHT
0
28-May-2024
10:32



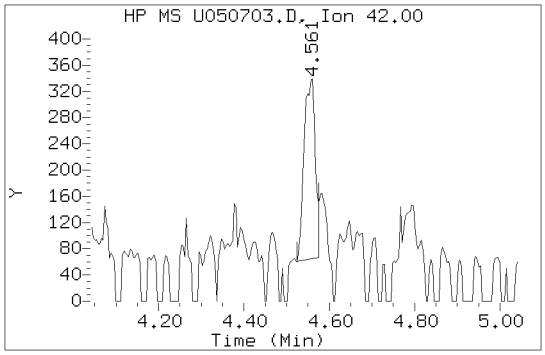
Tetrahydrofuran (109-99-9)

Reason Code:

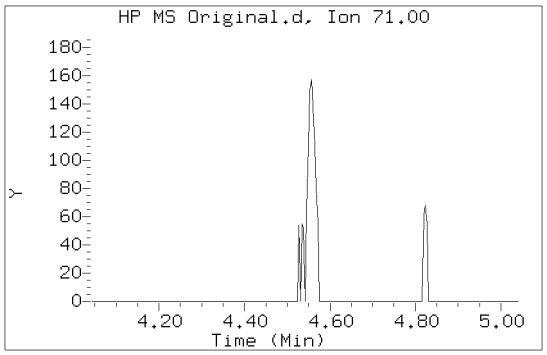
BEFORE
MASS
42
AREA
509
HEIGHT
273
28-May-2024
09:17
tianna
smith



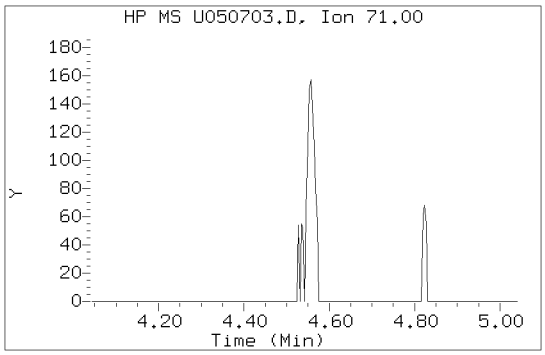
AFTER
MASS
42
AREA
509
HEIGHT
273
28-May-2024
10:32



BEFORE
MASS
71
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
71
AREA
0
HEIGHT
0
28-May-2024
10:32



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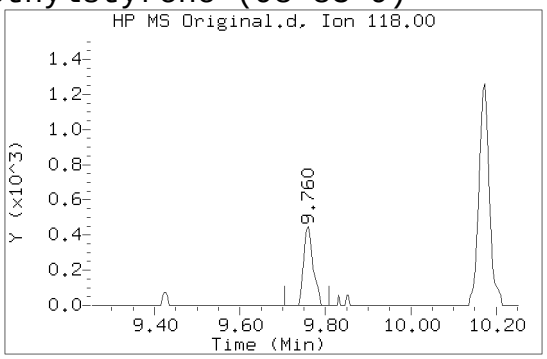
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

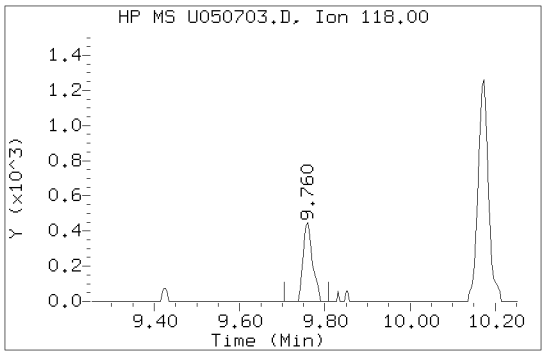
alpha-Methylstyrene (98-83-9)

Reason Code:

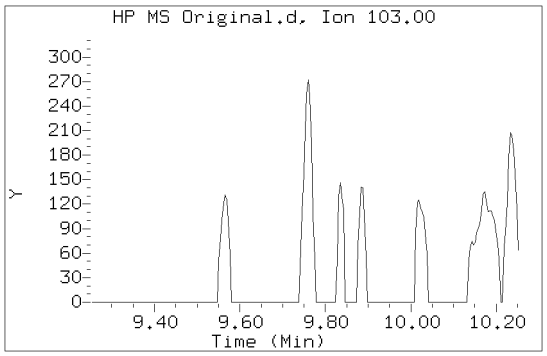
BEFORE
MASS
118
AREA
706
HEIGHT
448
28-May-2024
09:17
tianna
smith



AFTER
MASS
118
AREA
706
HEIGHT
448
28-May-2024
10:32



BEFORE
MASS
103
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
103
AREA
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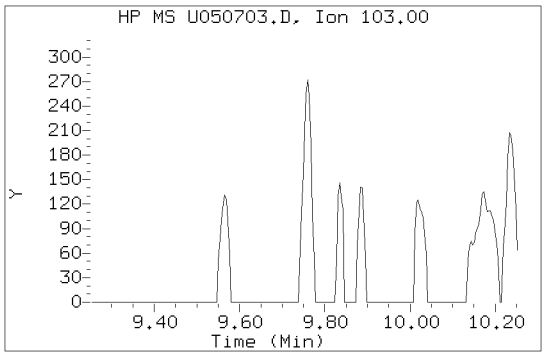
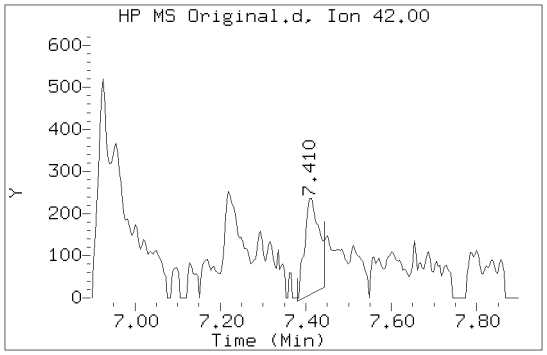
HEIGHT
0
28-May-2024
10:32



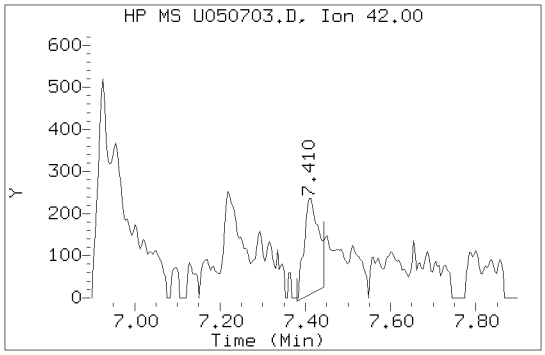
Amyl alcohol (71-41-0)

Reason Code:

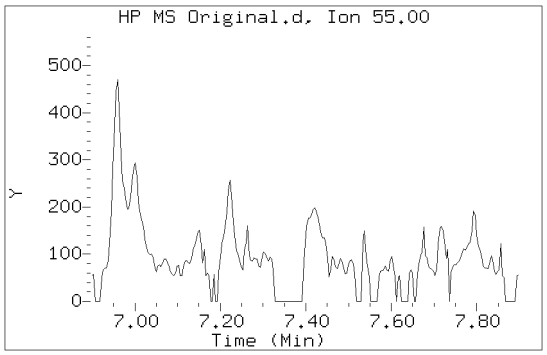
BEFORE
MASS
42
AREA
551
HEIGHT
229
28-May-2024
09:17
tianna
smith



AFTER
MASS
42
AREA
551
HEIGHT
229
28-May-2024
10:32



BEFORE
MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
55
AREA
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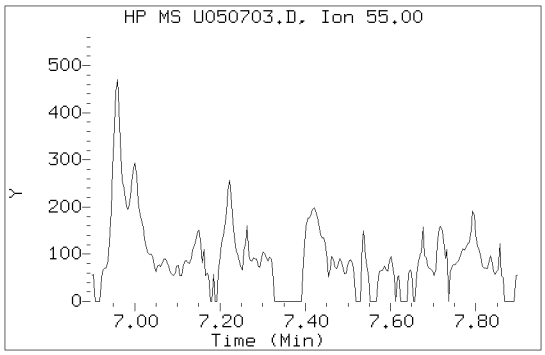
HEIGHT
0
28-May-2024
10:32



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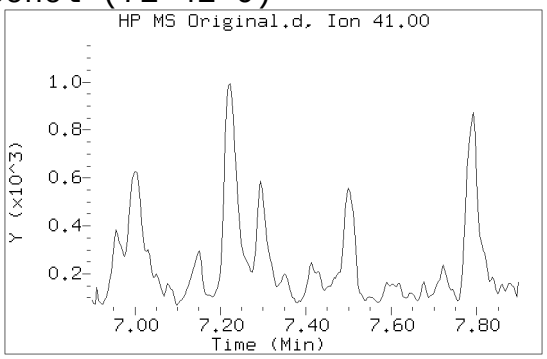
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

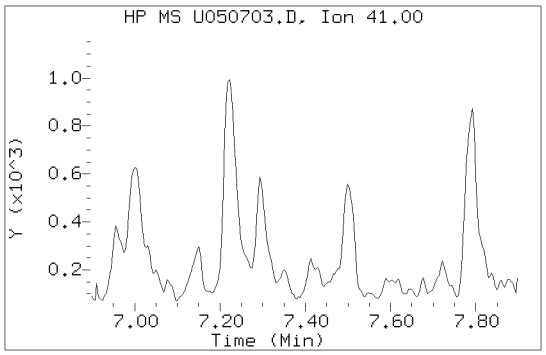
Amyl alcohol (71-41-0)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



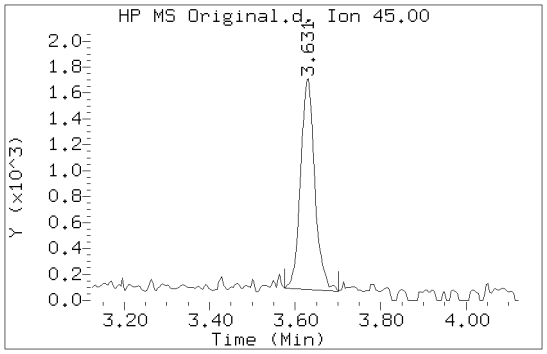
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32



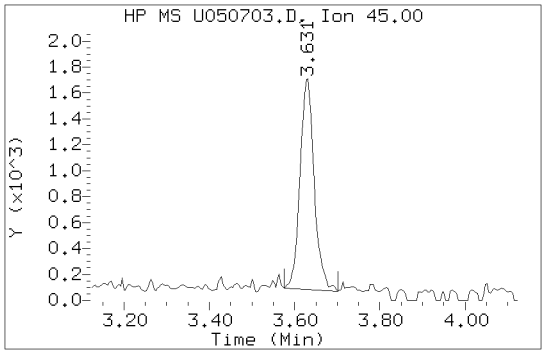
Diisopropyl ether (108-20-3)

Reason Code:

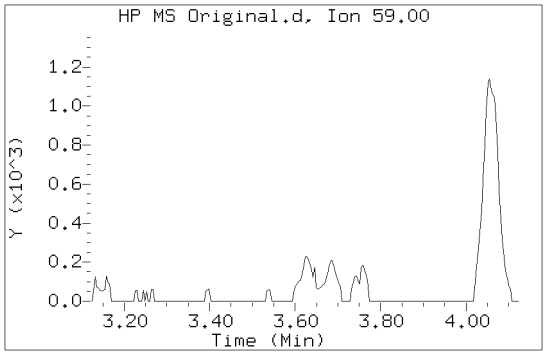
BEFORE
MASS
45
AREA
3831
HEIGHT
1626
28-May-2024
09:17
tianna
smith



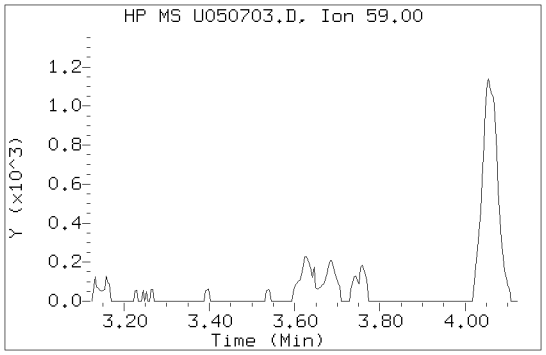
AFTER
MASS
45
AREA
3831
HEIGHT
1626
28-May-2024
10:32



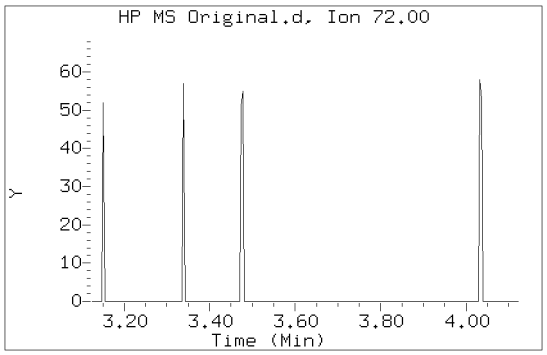
BEFORE
MASS
59
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



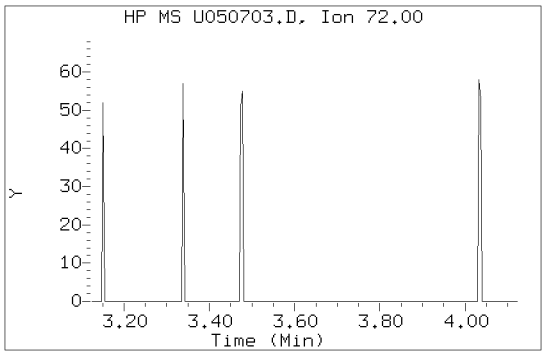
AFTER
MASS
59
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
72
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
72
AREA
0
HEIGHT
0
28-May-2024
10:32



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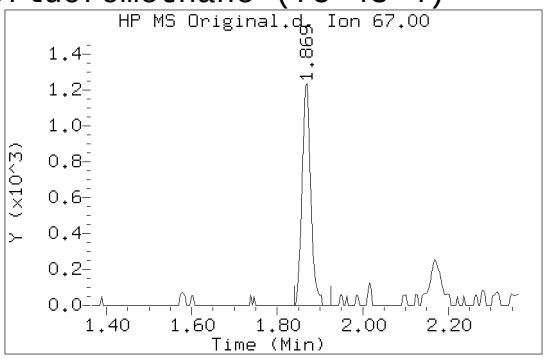
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

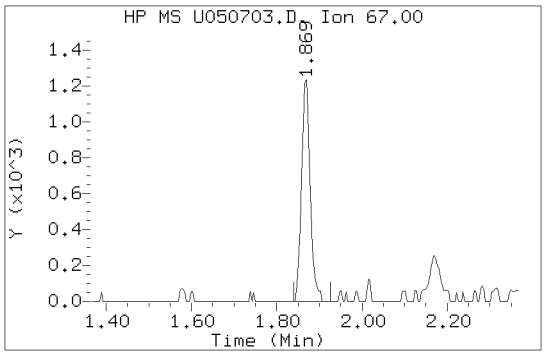
Dichlorofluoromethane (75-43-4)

Reason Code:

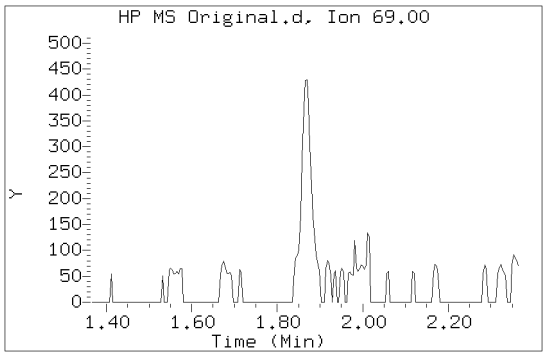
BEFORE
MASS
67
AREA
1793
HEIGHT
1236
28-May-2024
09:17
tianna
smith



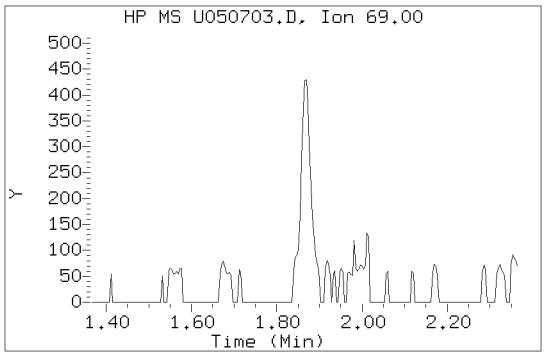
AFTER
MASS
67
AREA
1793
HEIGHT
1236
28-May-2024
10:32



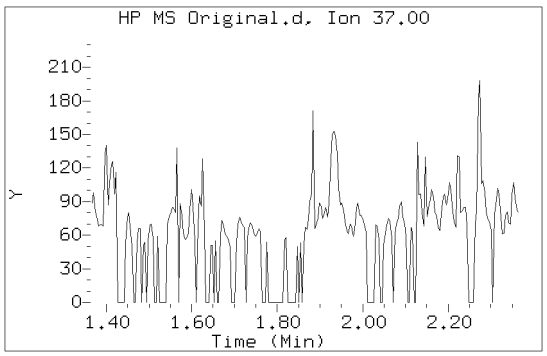
BEFORE
MASS
69
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



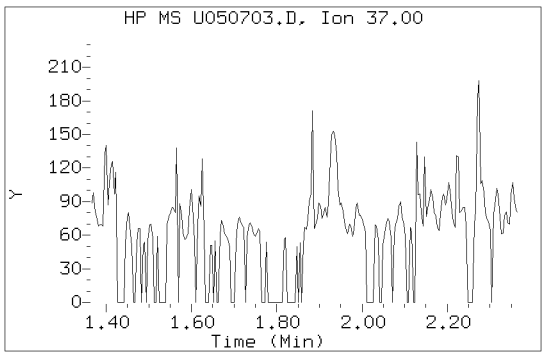
AFTER
MASS
69
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
37
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



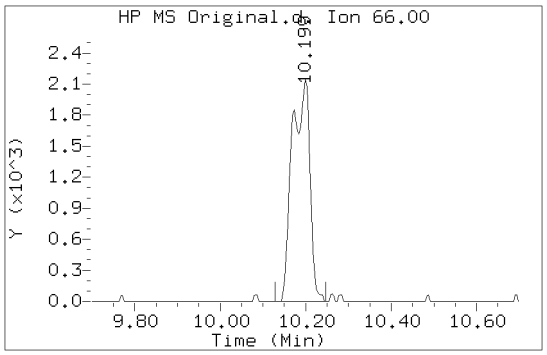
AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32



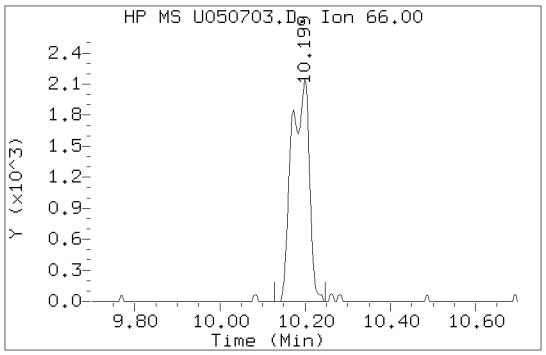
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
66
AREA
6222
HEIGHT
2142
28-May-2024
09:17
tianna
smith



AFTER
MASS
66
AREA
6222
HEIGHT
2142
28-May-2024
10:32



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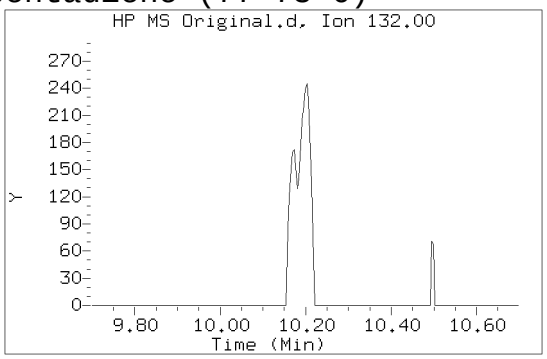
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

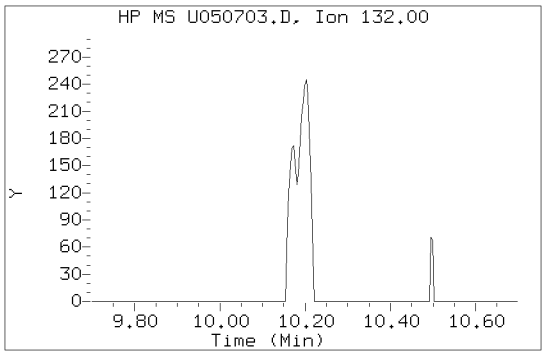
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
132
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



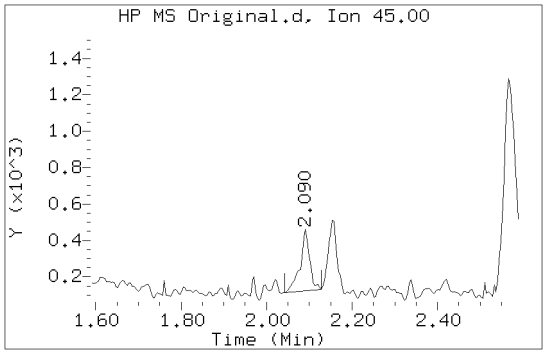
AFTER
MASS
132
AREA
0
HEIGHT
0
28-May-2024
10:32



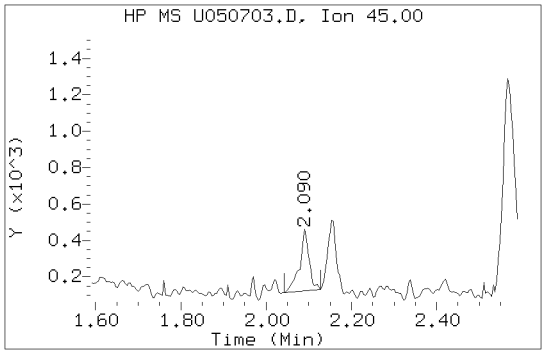
Ethanol (64-17-5)

Reason Code:

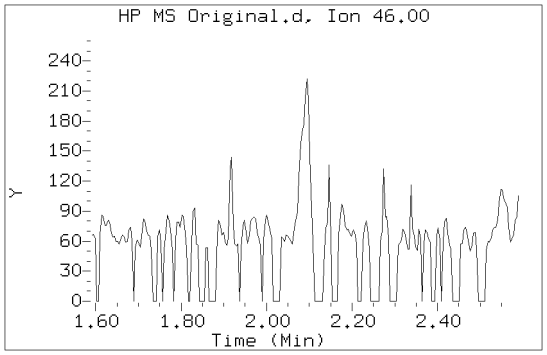
BEFORE
MASS
45
AREA
520
HEIGHT
336
28-May-2024
09:17
tianna
smith



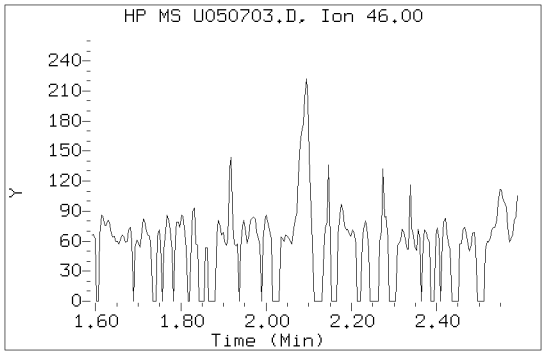
AFTER
MASS
45
AREA
520
HEIGHT
336
28-May-2024
10:32



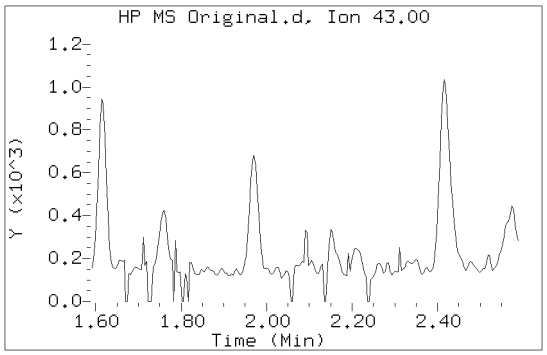
BEFORE
MASS
46
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



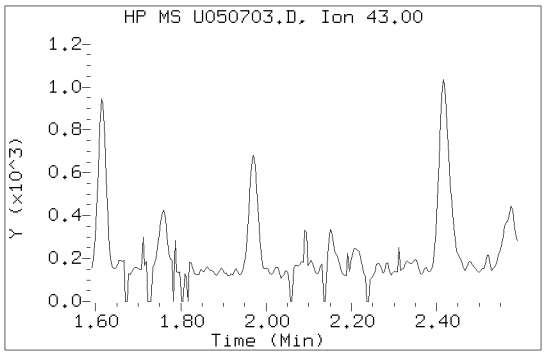
AFTER
MASS
46
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
43
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
0
HEIGHT
0
28-May-2024
10:32



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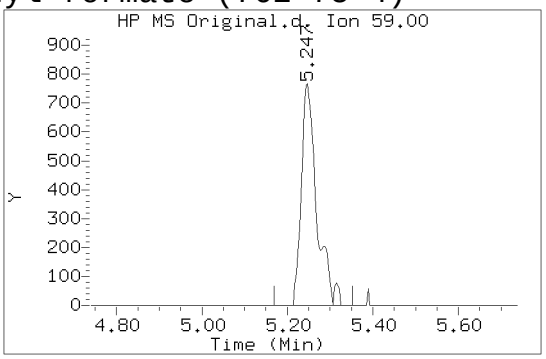
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

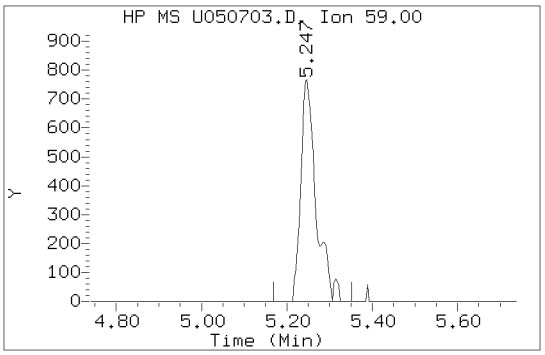
tert-Butyl formate (762-75-4)

Reason Code:

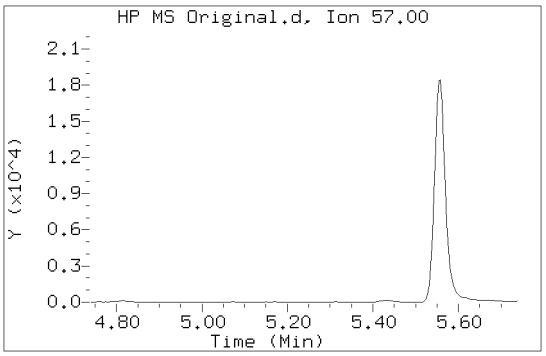
BEFORE
MASS
59
AREA
1950
HEIGHT
767
28-May-2024
09:17
tianna
smith



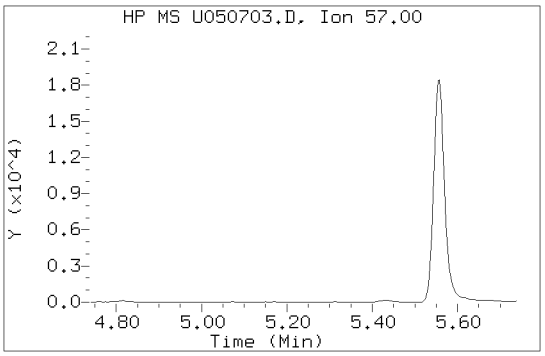
AFTER
MASS
59
AREA
1950
HEIGHT
767
28-May-2024
10:32



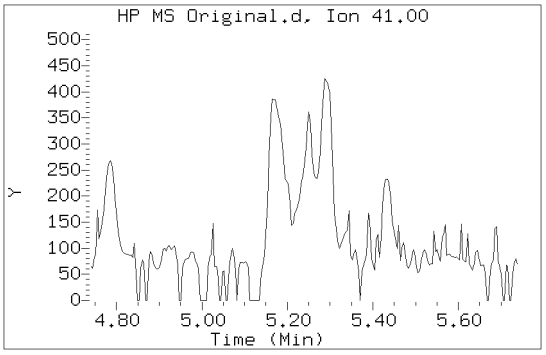
BEFORE
MASS
57
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



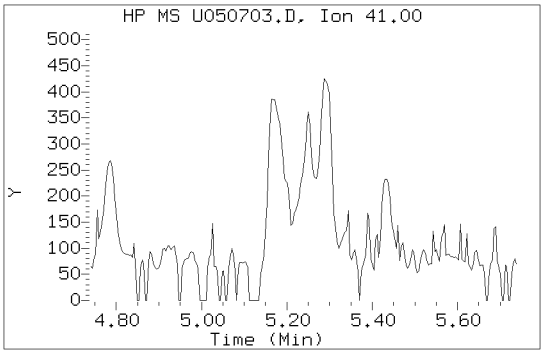
AFTER
MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



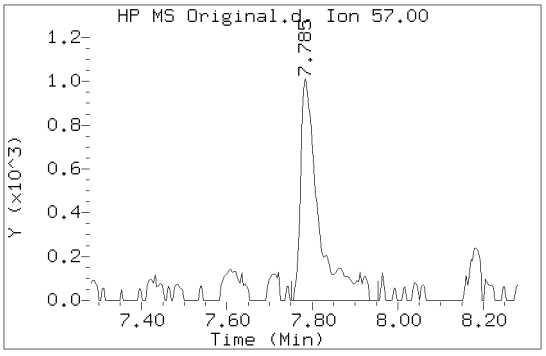
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32



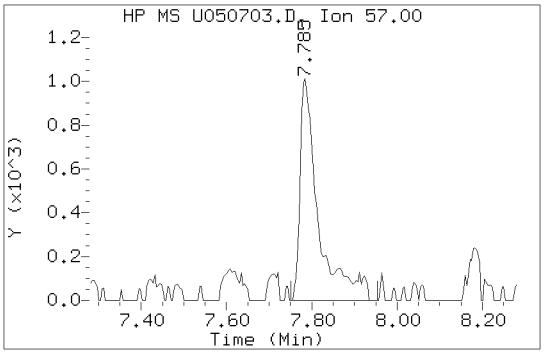
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
3047
HEIGHT
1012
28-May-2024
09:17
tianna
smith



AFTER
MASS
57
AREA
3047
HEIGHT
1012
28-May-2024
10:32



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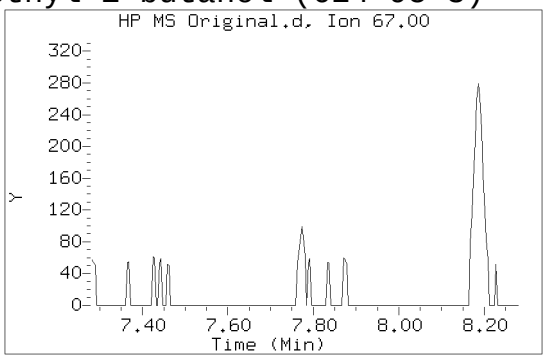
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

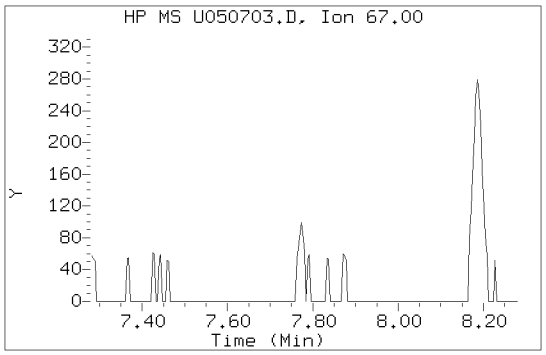
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

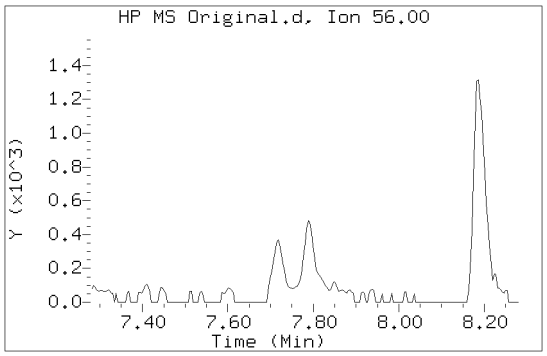
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



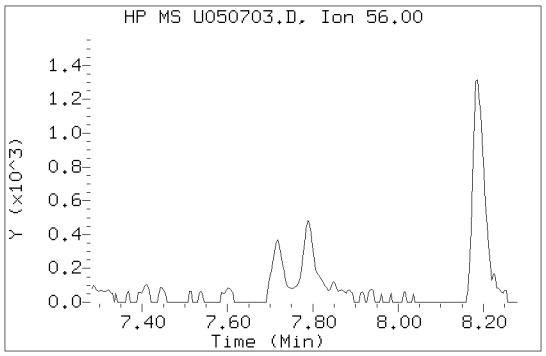
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
56
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



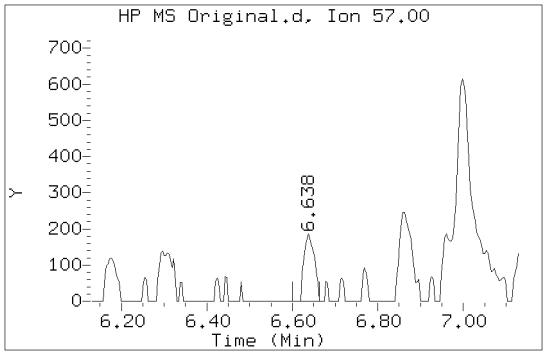
AFTER
MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32



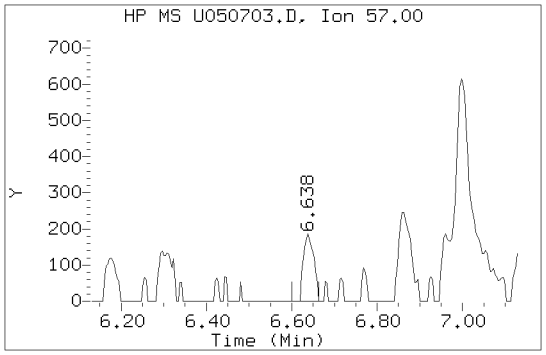
Epichlorohydrin (106-89-8)

Reason Code:

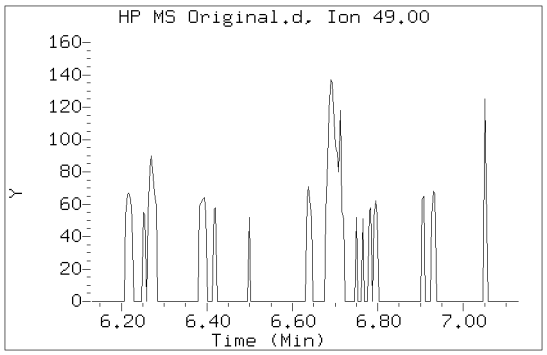
BEFORE
MASS
57
AREA
321
HEIGHT
186
28-May-2024
09:17
tianna
smith



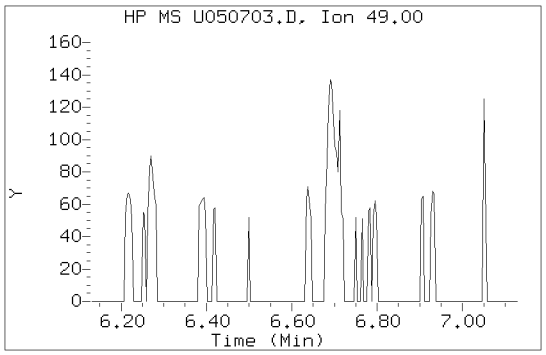
AFTER
MASS
57
AREA
321
HEIGHT
186
28-May-2024
10:32



BEFORE
MASS
49
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32



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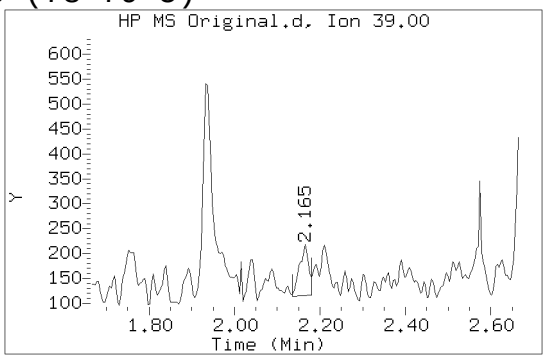
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

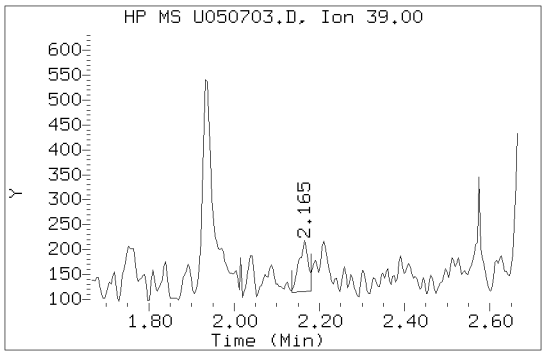
Isoprene (78-79-5)

Reason Code:

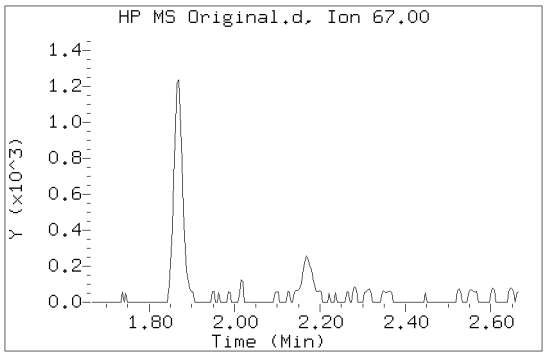
BEFORE
MASS
39
AREA
156
HEIGHT
102
28-May-2024
09:17
tianna
smith



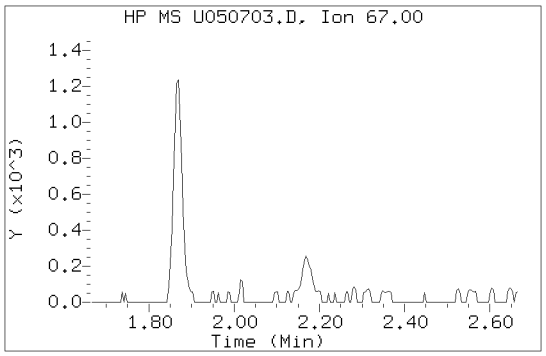
AFTER
MASS
39
AREA
156
HEIGHT
102
28-May-2024
10:32



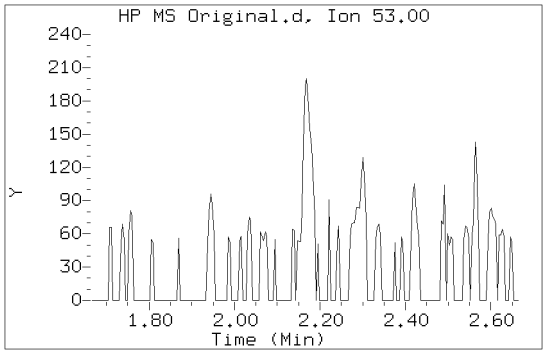
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



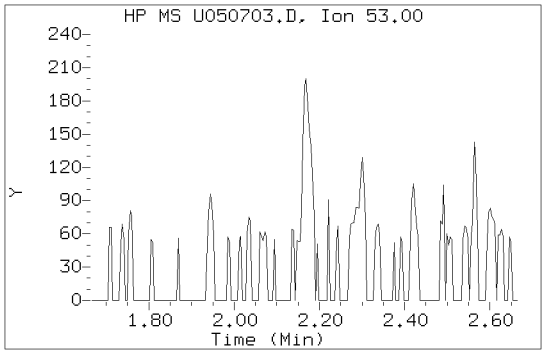
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
53
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



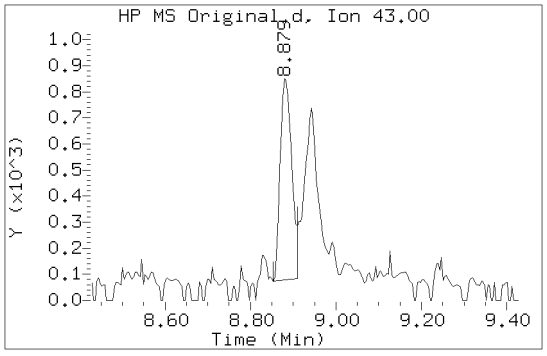
AFTER
MASS
53
AREA
0
HEIGHT
0
28-May-2024
10:32



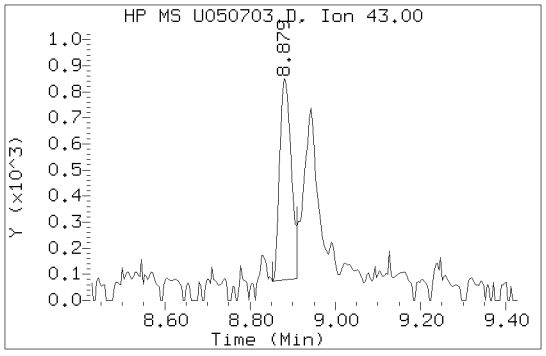
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
1459
HEIGHT
771
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
1459
HEIGHT
771
28-May-2024
10:32



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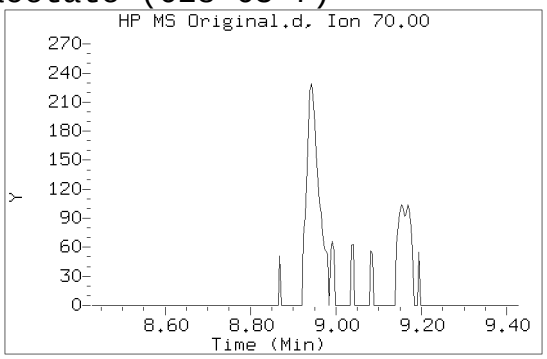
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
70
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
70
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HEIGHT
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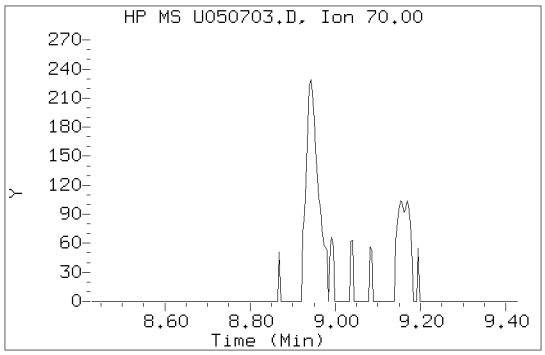
28-May-2024
10:32



BEFORE

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87
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HEIGHT
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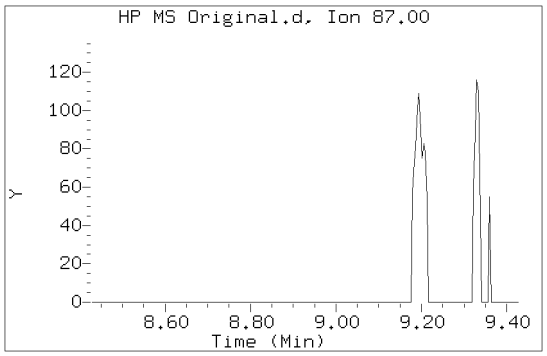
28-May-2024
09:17
tianna
smith



AFTER

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HEIGHT
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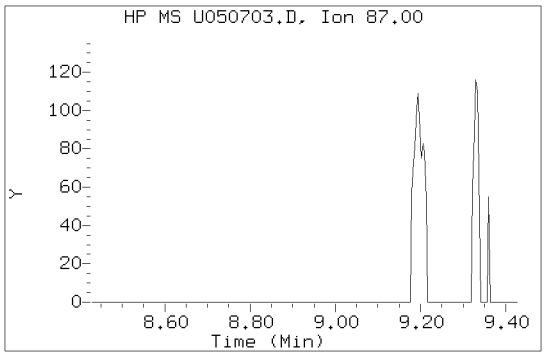
28-May-2024
10:32



Isopropyl acetate (108-21-4)

Reason Code:

BEFORE

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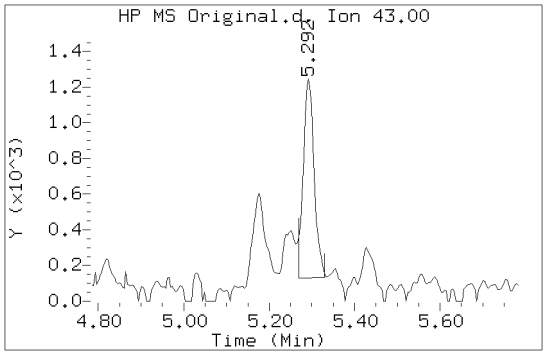
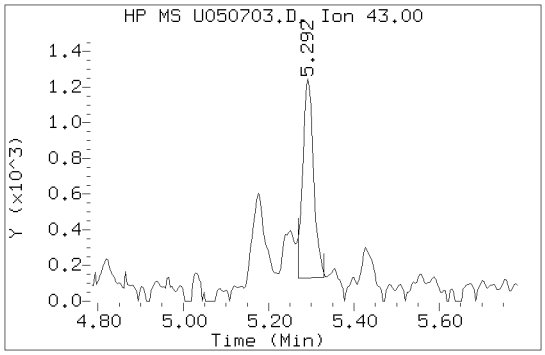
43
AREA
2022
HEIGHT
1114
28-May-2024
09:17
tianna
smith



AFTER

MASS
43
AREA
2022
HEIGHT
1114
28-May-2024
10:32



BEFORE

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61
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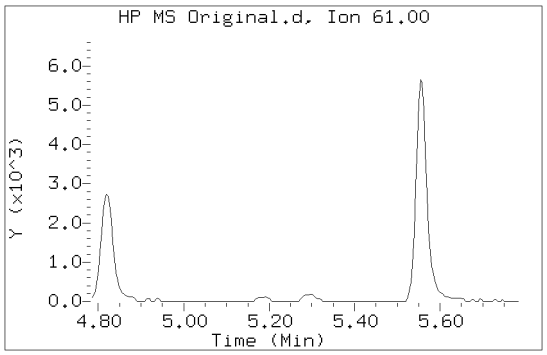
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
61
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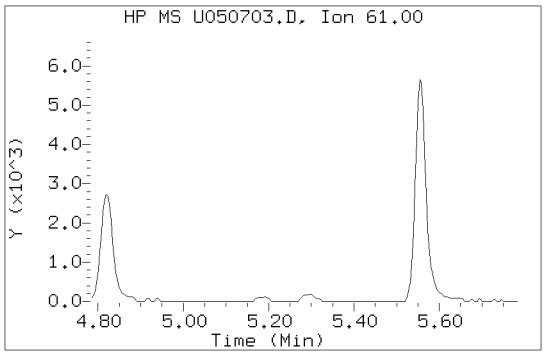
0
HEIGHT
0
28-May-2024
10:32



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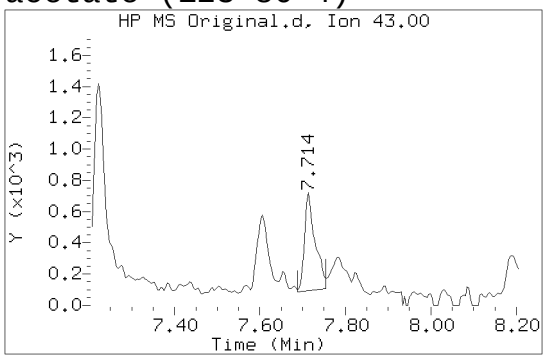
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

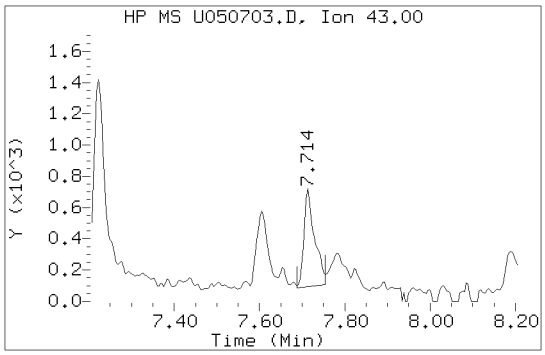
BEFORE

MASS
43
AREA
1111
HEIGHT
627
28-May-2024
09:17
tianna
smith



AFTER

MASS
43
AREA
1111
HEIGHT
627
28-May-2024
10:32



BEFORE

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56
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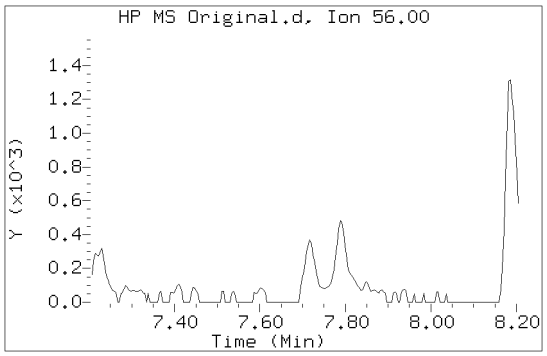
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
56
AREA
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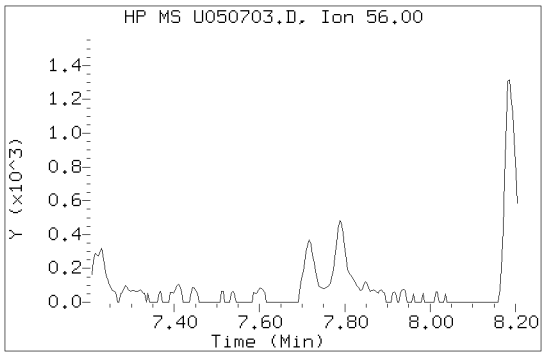
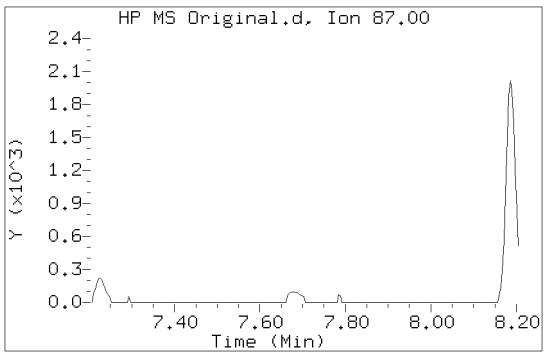
HEIGHT
0
28-May-2024
10:32



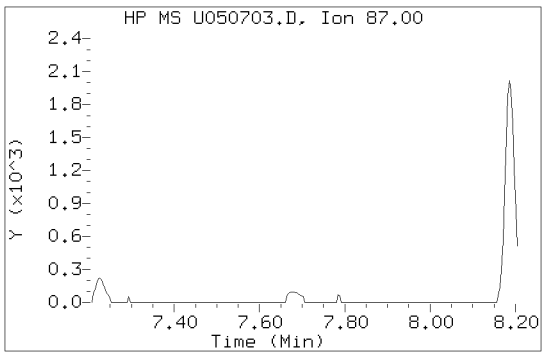
BEFORE

MASS
87
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
87
AREA
0
HEIGHT
0
28-May-2024
10:32

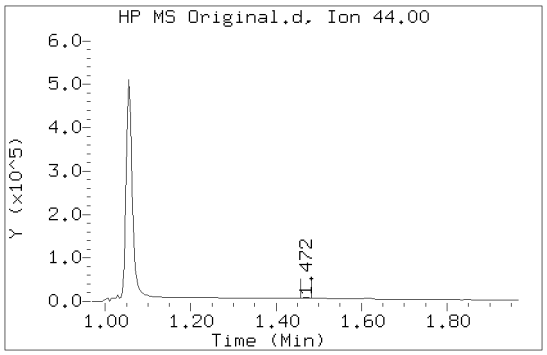


Acetaldehyde (75-07-0)

Reason Code:

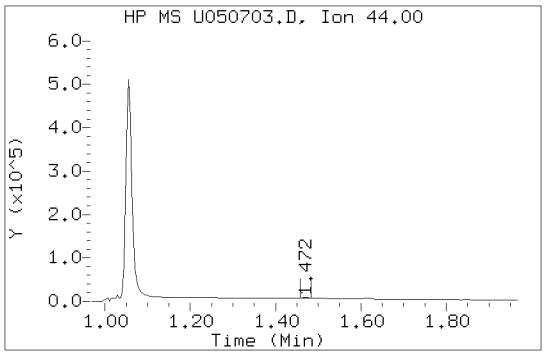
BEFORE

MASS
44
AREA
1055
HEIGHT
1200
28-May-2024
09:17
tianna
smith



AFTER

MASS
44
AREA
1055
HEIGHT
1200
28-May-2024
10:32



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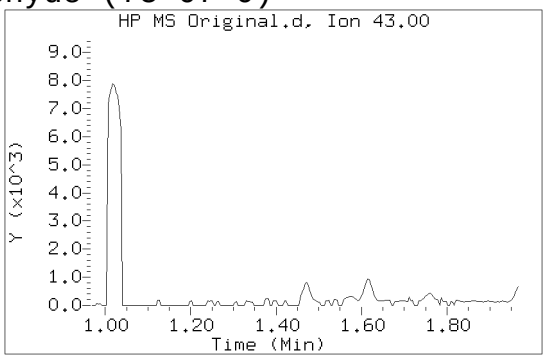
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
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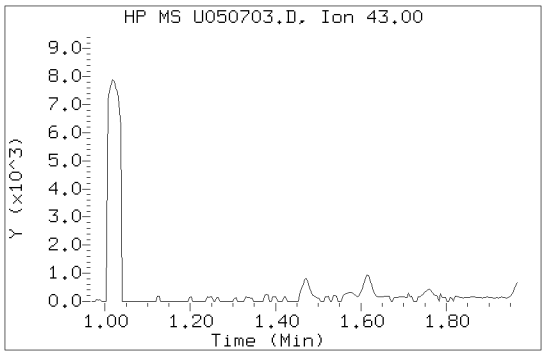
HEIGHT
0
28-May-2024
10:32



BEFORE
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42
AREA
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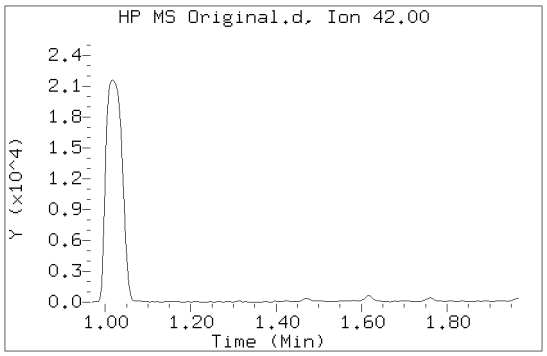
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
42
AREA
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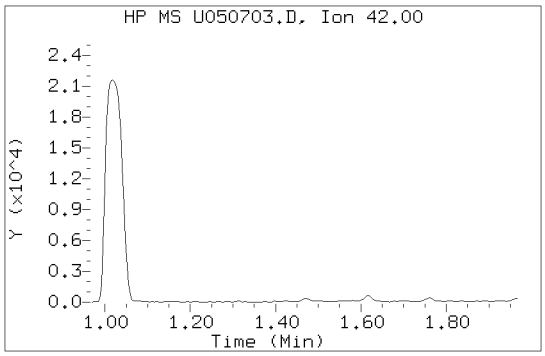
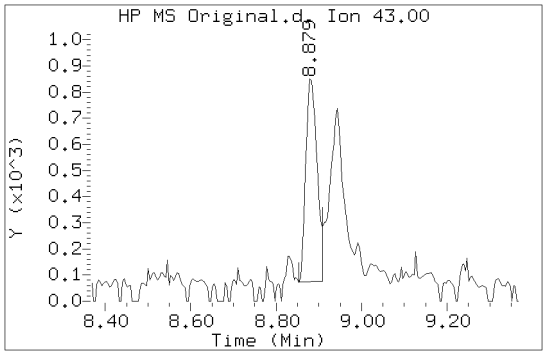
HEIGHT
0
28-May-2024
10:32



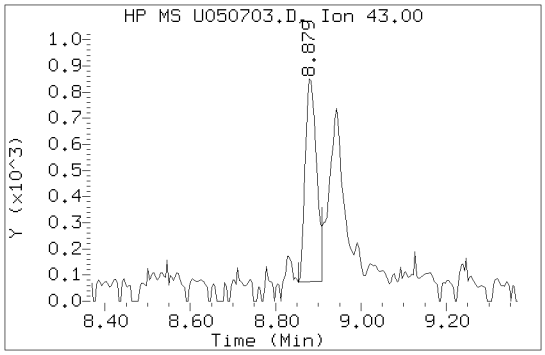
Methyl Amyl Ketone (110-43-0)

Reason Code:

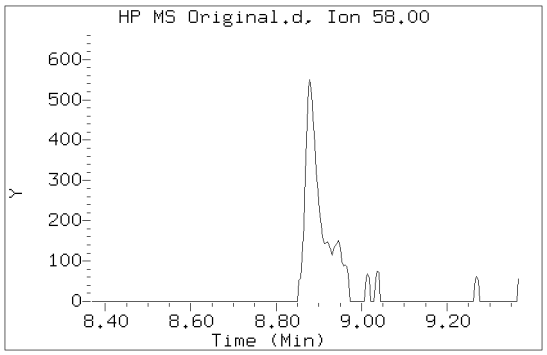
BEFORE
MASS
43
AREA
1474
HEIGHT
775
28-May-2024
09:17
tianna
smith



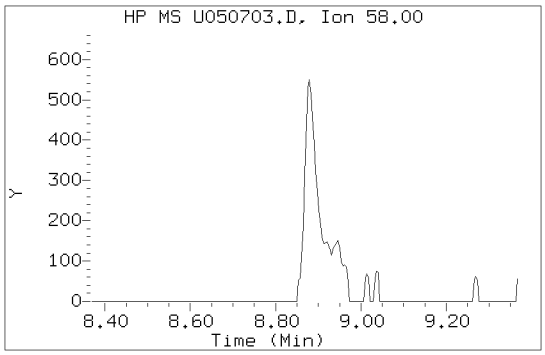
AFTER
MASS
43
AREA
1474
HEIGHT
775
28-May-2024
10:32



BEFORE
MASS
58
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
58
AREA
0
HEIGHT
0
28-May-2024
10:32



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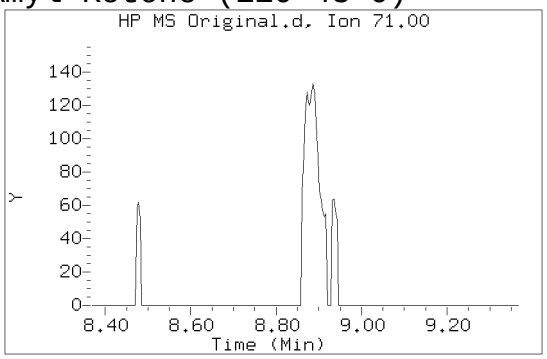
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

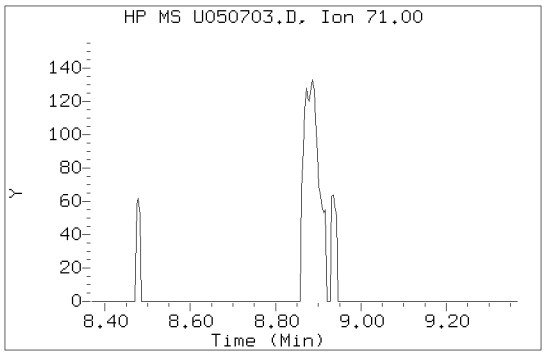
Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
71
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



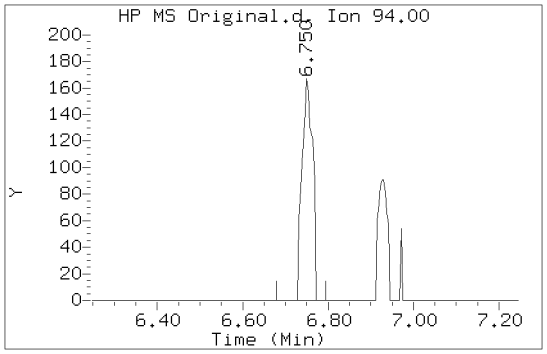
AFTER
MASS
71
AREA
0
HEIGHT
0
28-May-2024
10:32



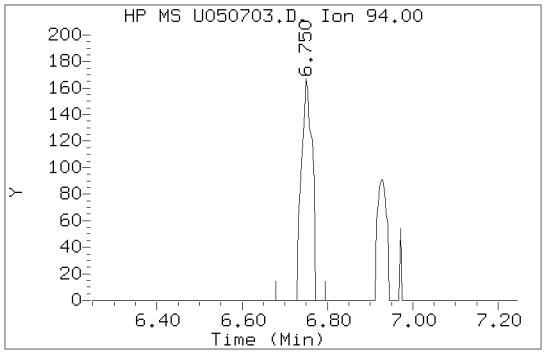
Dimethyl Disulfide (624-92-0)

Reason Code:

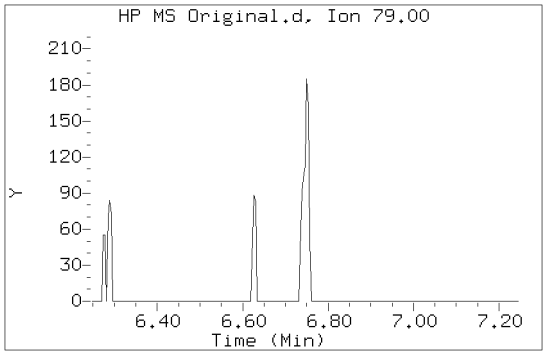
BEFORE
MASS
94
AREA
292
HEIGHT
167
28-May-2024
09:17
tianna
smith



AFTER
MASS
94
AREA
292
HEIGHT
167
28-May-2024
10:32



BEFORE
MASS
79
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
79
AREA
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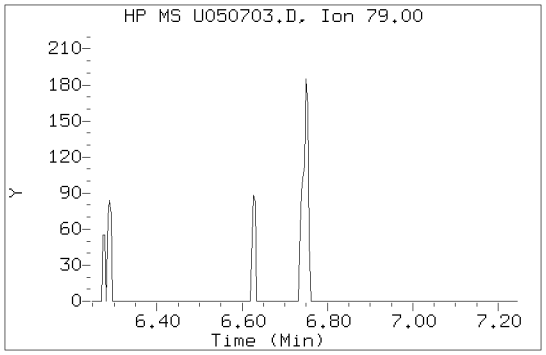
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
45
AREA
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HEIGHT
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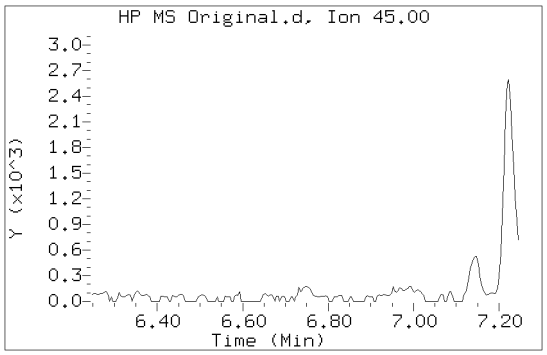
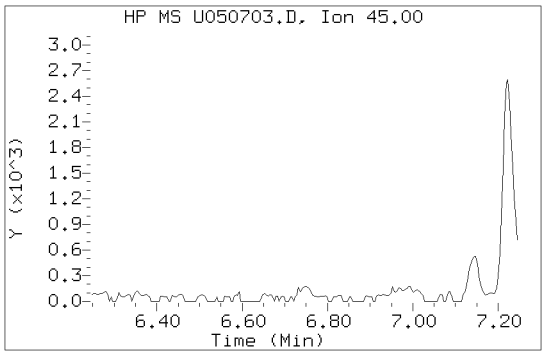
28-May-2024
09:17
tianna
smith



AFTER
MASS
45
AREA
0
HEIGHT
0
28-May-2024
10:32



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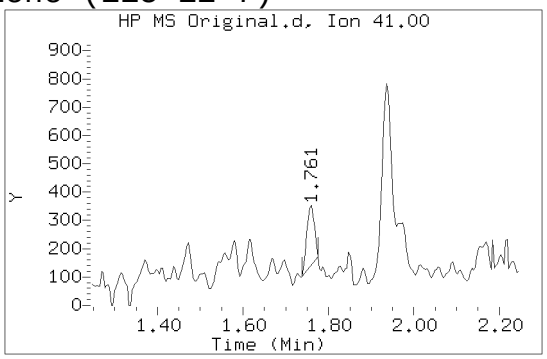
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

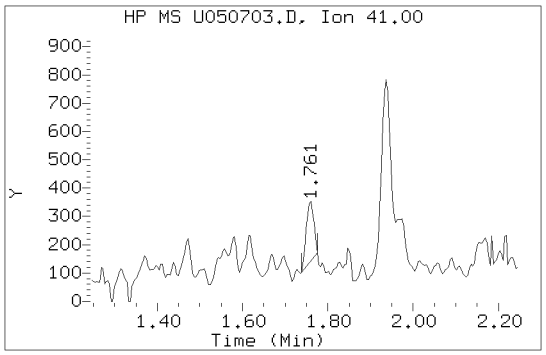
Isobutylene (115-11-7)

Reason Code:

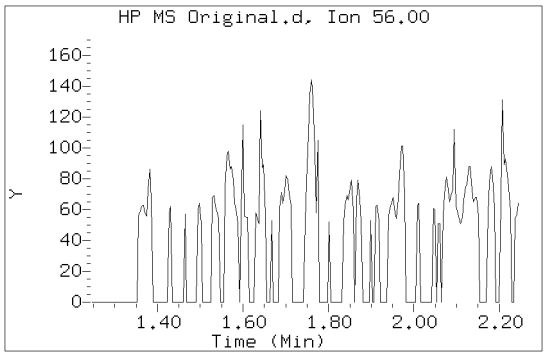
BEFORE
MASS
41
AREA
262
HEIGHT
209
28-May-2024
09:17
tianna
smith



AFTER
MASS
41
AREA
262
HEIGHT
209
28-May-2024
10:32



BEFORE
MASS
56
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
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AREA
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HEIGHT
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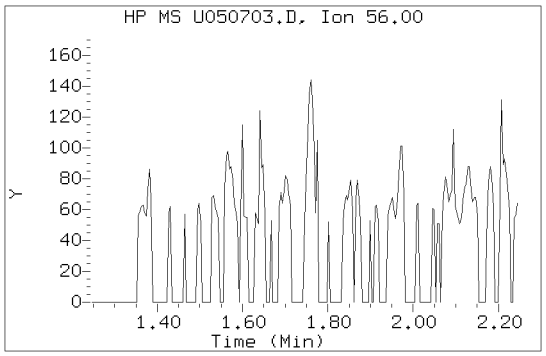
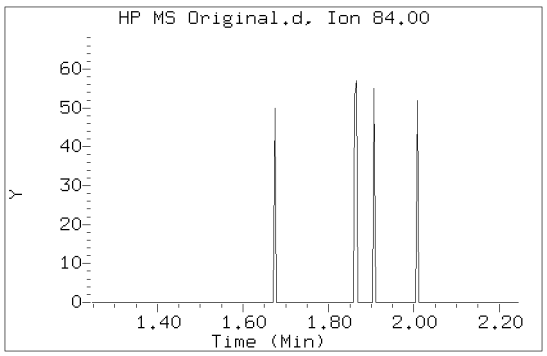
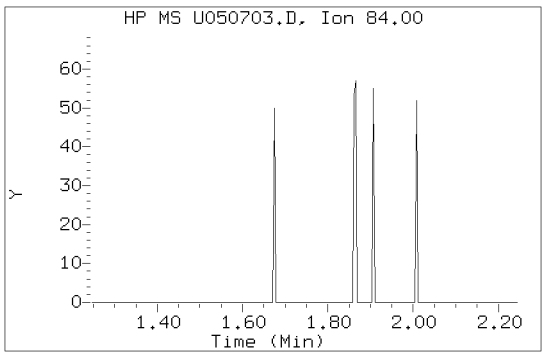
28-May-2024
10:32



BEFORE
MASS
84
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



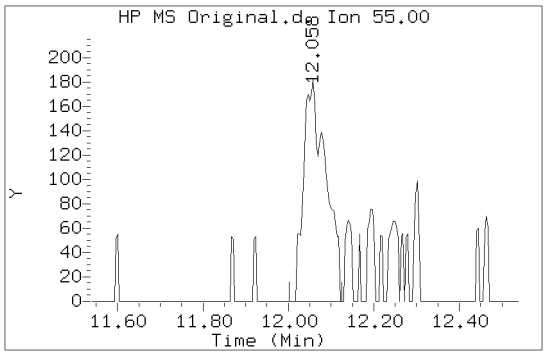
AFTER
MASS
84
AREA
0
HEIGHT
0
28-May-2024
10:32



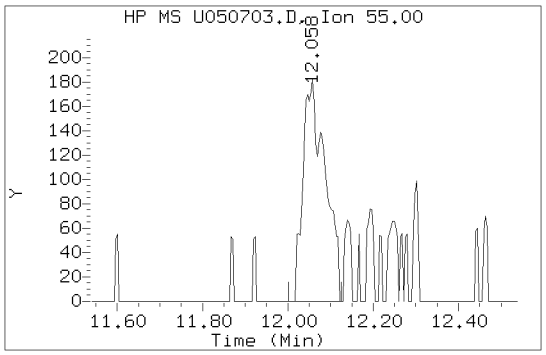
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
664
HEIGHT
182
28-May-2024
09:17
tianna
smith



AFTER
MASS
55
AREA
664
HEIGHT
182
28-May-2024
10:32



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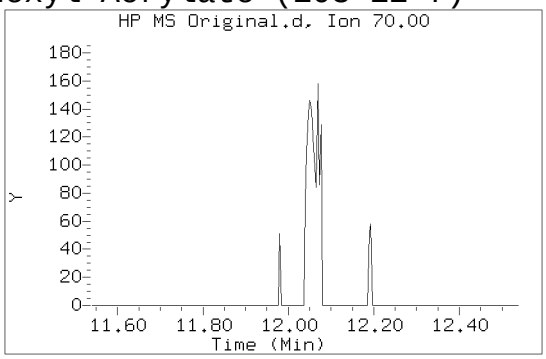
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
70
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



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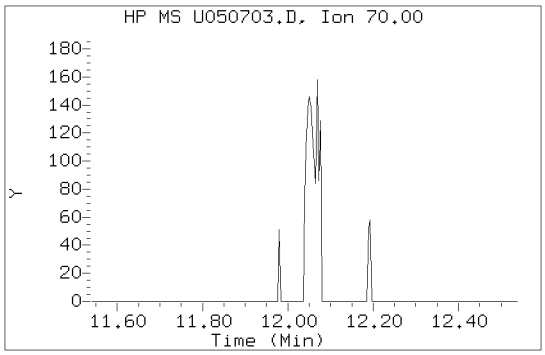


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 07-MAY-2024 12:48
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: 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)	233828	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	1557	1.00000	1.28(M)
3	Chloromethane	50	1.291	1.291	(0.268)	2801	1.00000	0.55
4	Propionitrile	54	4.343	4.343	(0.902)	4378	10.0000	(aM)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	2206	1.00000	1.06(M)
6	Bromomethane	94	1.610	1.610	(0.334)	2357	1.00000	1.73
7	Chloroethane	64	1.692	1.692	(0.352)	1775	1.00000	0.77
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2473	1.00000	1.00
9	Acrolein	56	2.258	2.258	(0.469)	367	2.00000	(aM)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	1548	1.00000	0.90
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	5509	20.0000	22.33(a)
13	Acetonitrile	39	2.667	2.667	(0.554)	2163	10.0000	9.32(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	6424	1.00000	1.08(a)
15	Iodomethane	142	2.461	2.461	(0.511)	1959	2.00000	2.65(T)
17	Methylene Chloride	84	2.787	2.787	(0.579)	5625	1.00000	0.88
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	6038	1.00000	1.10
19	Carbon Disulfide	76	2.513	2.513	(0.522)	8192	2.00000	2.22
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	1968	1.00000	1.06
21	Vinyl Acetate	43	4.339	4.339	(0.901)	2021	2.00000	2.01(M)
22	1,1-Dichloroethane	63	3.507	3.507	(0.728)	3729	1.00000	1.16(T)

23 Chloroprene	53	2.157	2.157 (0.448)	924	1.00000	0.82(aM)
24 2-Butanone	43	4.268	4.268 (0.886)	1659	2.00000	2.24

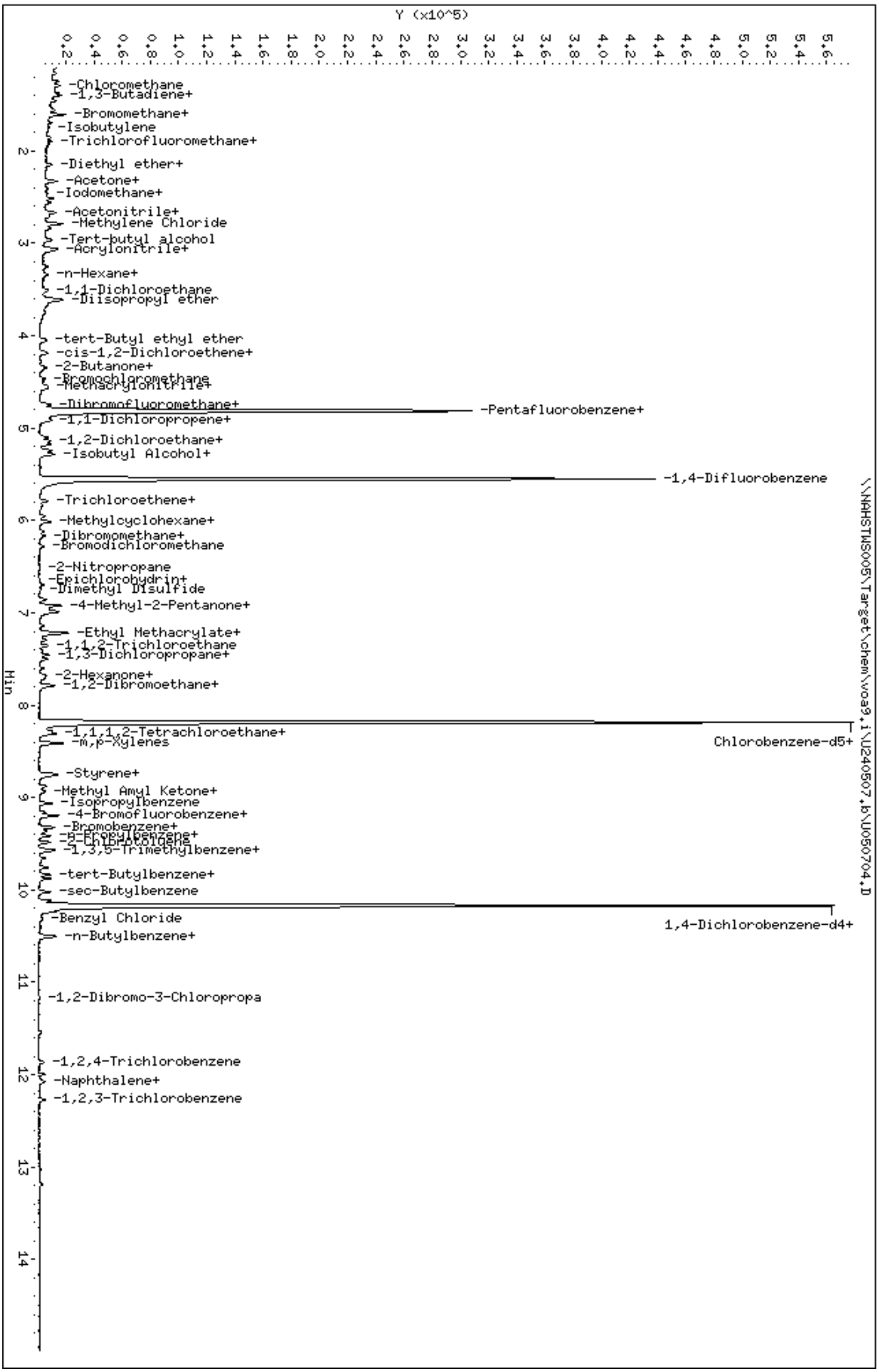
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.504	4.504	(0.935)	1354	1.00000	1.06(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	1877	1.00000	1.50(M)
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	2013	1.00000	1.16
	28 Chloroform	83	4.571	4.571	(0.949)	3259	1.00000	1.21
	29 Bromochloromethane	128	4.466	4.466	(0.928)	1072	1.00000	0.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	2915	1.00000	(a)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	2025	1.00000	1.05
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	2060	1.00000	1.02
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	2650	1.00000	1.16
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	1932	1.00000	1.50(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3917	1.00000	(a)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	348530	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	7165	1.00000	1.14
	38 Trichloroethene	130	5.790	5.790	(1.043)	1953	1.00000	1.15(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	1825	1.00000	1.02(aM)
	40 Methyl Methacrylate	41	5.835	5.835	(1.212)	694	1.00000	0.85(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	2166	1.00000	1.47(aM)
	43 2-Nitropropane	43	6.513	6.513	(1.353)	471	1.00000	1.02(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	1107	1.00000	1.07(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	3583	2.00000	2.02(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	1704	1.00000	1.82(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	313614	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	10301	1.00000	(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	2715	1.00000	1.06(a)
	50 Toluene	91	6.982	6.982	(0.853)	6430	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	1103	1.00000	1.95(aM)
	52 2-Hexanone	43	7.600	7.600	(0.929)	2287	2.00000	5.25
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1562	1.00000	1.21(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	3083	1.00000	1.13(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1058	1.00000	3.11(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1241	1.00000	0.88(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1590	1.00000	1.10(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4501	1.00000	1.63(a)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	5172	1.00000	1.20(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1282	1.00000	2.80(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	2177	1.00000	1.07(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	5043	2.00000	2.05(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	2506	1.00000	1.02(aM)
	64 Styrene	104	8.766	8.766	(1.071)	3944	1.00000	0.95(a)
	66 Bromoform	173	8.920	8.920	(1.090)	666	1.00000	2.22(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	5630	1.00000	0.95(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2612	1.00000	1.74(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	4236	1.00000	0.00(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	152902	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	1812	1.00000	0.93(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	435	1.00000	1.53(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	6308	1.00000	1.02(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	2043	1.00000	1.23(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4511	1.00000	1.01(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	4613	1.00000	1.10(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	4909	1.00000	1.04(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	3755	1.00000	1.00(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	4129	1.00000	0.94(a)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	5080	1.00000	1.03(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	3915	1.00000	0.91(a)
83	1,3-Dichlorobenzene	146	10.119	10.119	(0.995)	3341	1.00000	1.15(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4070	1.00000	1.79(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	1403	1.00000	3.69(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	3736	1.00000	1.58(a)
88	1,2-Dichlorobenzene	146	10.509	10.509	(1.033)	3213	1.00000	1.49(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	188	1.00000	2.67(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1543	1.00000	1.62(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	743	1.00000	1.00(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	3927	1.00000	2.91(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	1899	1.00000	1.10(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	3883	1.00000	(a)
138	Freon TF	101	2.333	2.333	(0.485)	1357	1.00000	1.09(a)
141	Cyclohexane	56	4.811	4.811	(0.999)	6206	1.00000	2.49(a)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	3123	1.00000	0.72(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	818	20.0000	18.54(a)
132	n-Butanol	56	5.835	5.835	(1.212)	1422	20.0000	22.66(a)
136	n-Hexane	57	3.338	3.338	(0.693)	1884	1.00000	1.12(Ta)
139	Diethyl ether	59	2.139	2.139	(0.444)	1736	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	6018	20.0000	8.04(M)
149	Isopropyl alcohol	45	2.558	2.558	(0.531)	4473	20.0000	0.25(Ta)
152	Amyl alcohol	42	7.405	7.405	(0.905)	878	20.0000	18.61(M)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	6537	1.00000	0.98(Ta)
162	Butyl acrylate	55	8.740	8.740	(1.068)	2730	1.00000	2.13(a)
187	n-Amyl acetate	43	8.875	8.875	(1.084)	3108	1.00000	0.96(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	7350	1.00000	0.89(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	4654	1.00000	0.82(a)
167	Ethanol	45	2.079	2.079	(0.432)	1084	20.0000	1.22(a)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	3827	2.00000	2.29(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	5673	20.0000	41.34(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	5039	1.00000	0.95(a)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	5114	1.00000	0.95(a)
176	tert-Amyl alcohol	59	5.242	5.242	(1.089)	3140	20.0000	19.56
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	8960	20.0000	48.63
140	1,3-Butadiene	54	1.396	1.396	(0.290)	1766	1.00000	1.16(a)
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	2684	1.00000	0.80(M)
182	Epichlorohydrin	57	6.644	6.644	(1.197)	696	4.00000	4.67(aM)
M 94	1,2-Dichloroethylene (total)	96				3981	2.00000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.901)	1997	1.00000	1.00(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	3276	1.00000	0.55(aM)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	2135	1.00000	3.58(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1788	20.0000	22.61(a)
185	Isoprene	39	2.150	2.150	(0.447)	346	1.00000	0.91(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	5024	1.00000	1.01(aM)
150	Allyl alcohol	57	3.338	3.338	(0.693)	1884	20.0000	22.47
194	Acetaldehyde	44	1.456	1.456	(0.302)	2602	4.00000	(aM)
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	3132	1.00000	3.06(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	584	1.00000	2.44(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	3187	1.00000	0.74(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1565	1.00000	0.79(a)
159	Propylene oxide	43	2.198	2.198	(0.457)	349	2.00000	2.21(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1047	1.00000	2.41(a)

QC Flag Legend

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



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Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

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

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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

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07-May-2024
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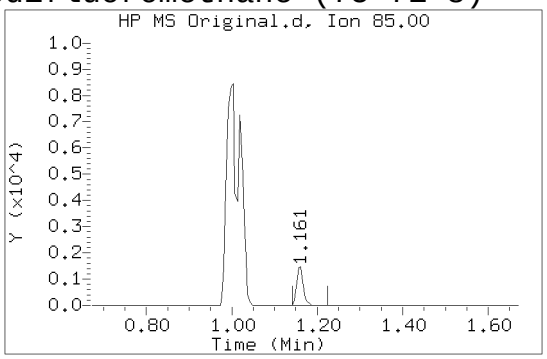

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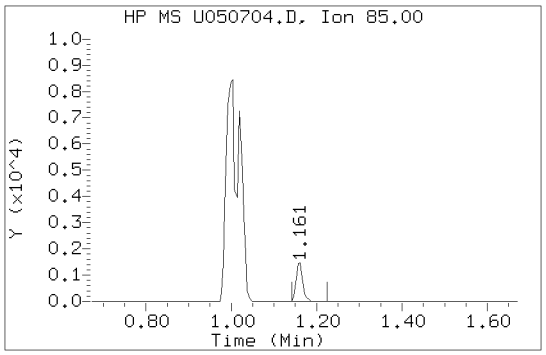

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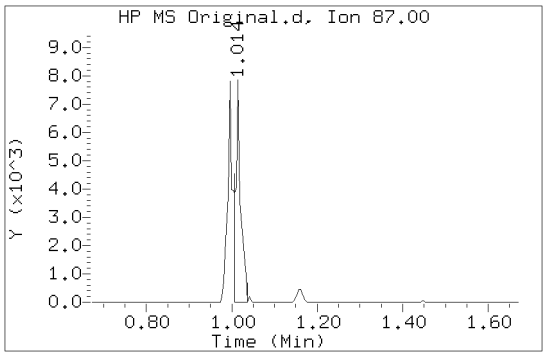

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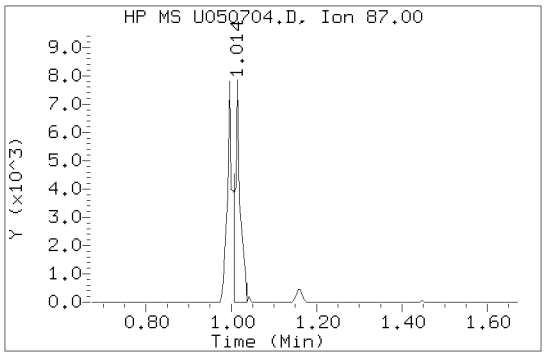

Vinyl Chloride (75-01-4)

Reason Code:

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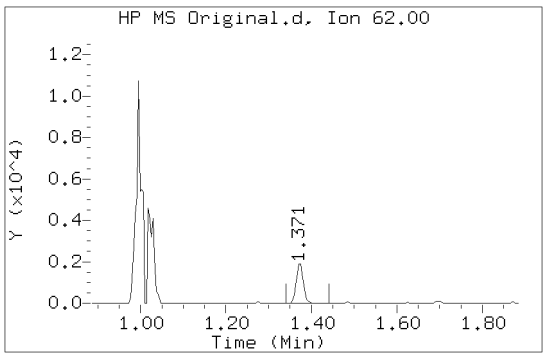

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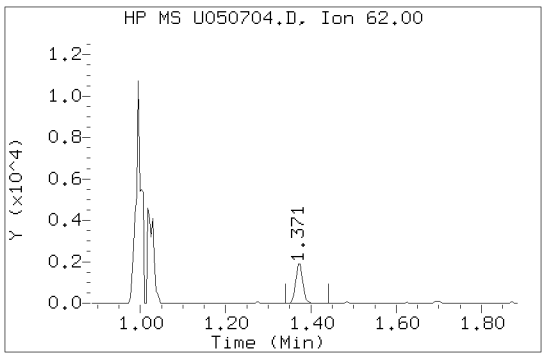

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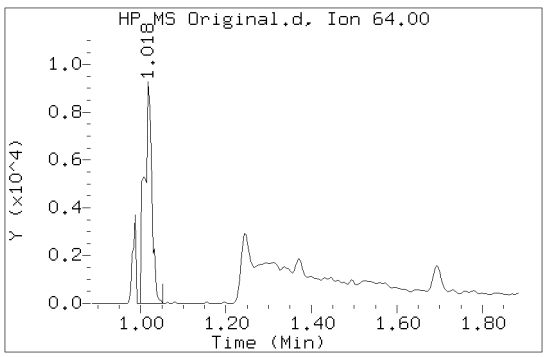

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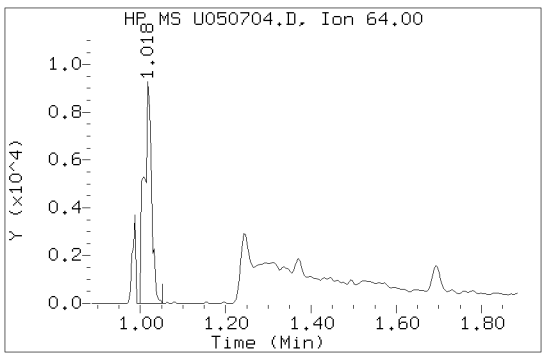

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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

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07-May-2024
16:19
firat
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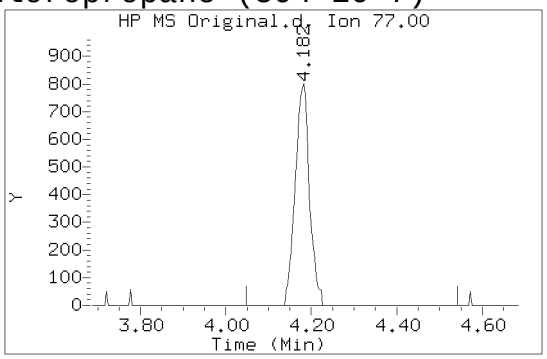

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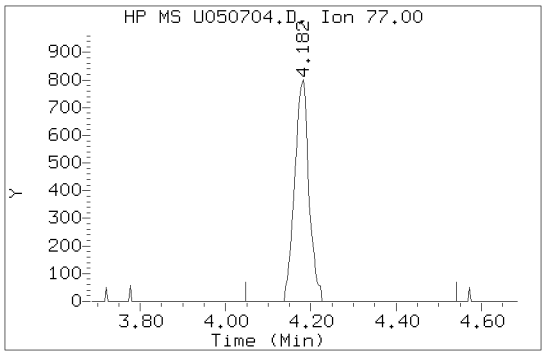
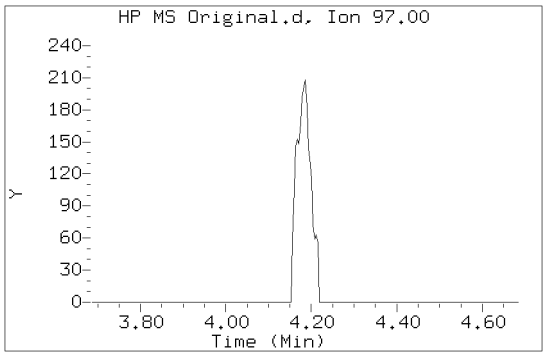
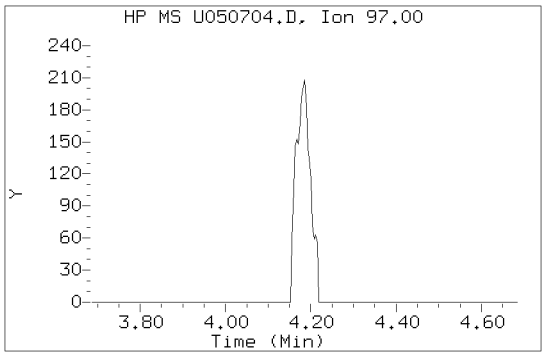
28-May-2024
10:32
firat



BEFORE
MASS
97
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



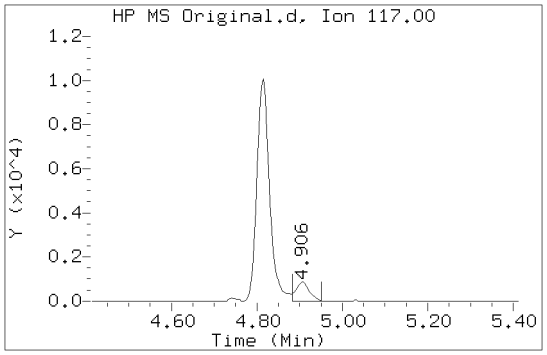
AFTER
MASS
97
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



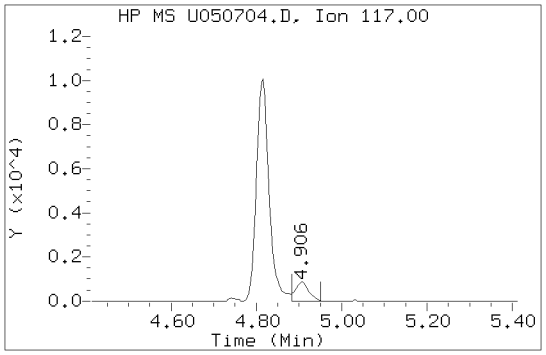
Carbon Tetrachloride (56-23-5)

Reason Code:

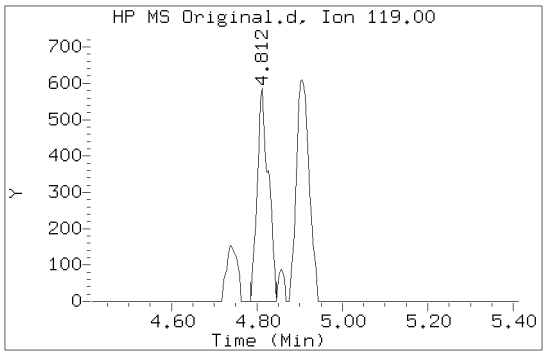
BEFORE
MASS
117
AREA
1932
HEIGHT
868
07-May-2024
16:19
firat
tastan



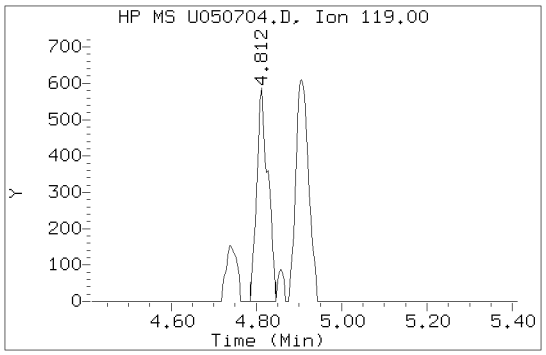
AFTER
MASS
117
AREA
1932
HEIGHT
868
28-May-2024
10:32
firat



BEFORE
MASS
119
AREA
1063
HEIGHT
588
07-May-2024
16:19
firat
tastan



AFTER
MASS
119
AREA
1063
HEIGHT
588
28-May-2024
10:32
firat



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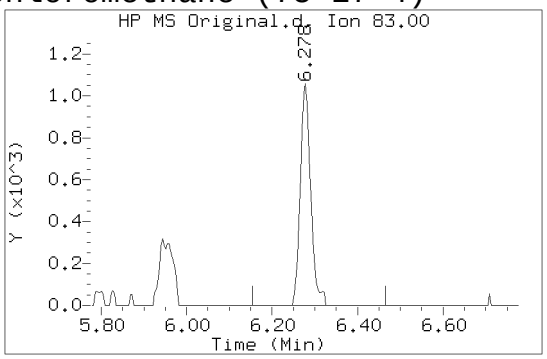
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

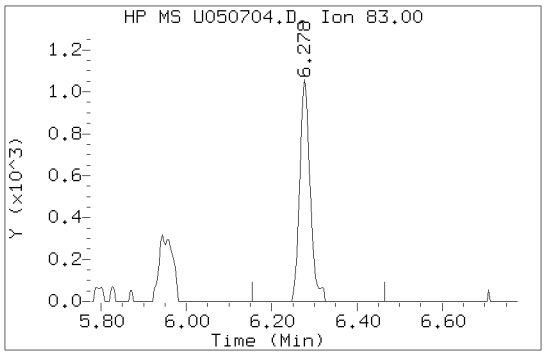
Bromodichloromethane (75-27-4)

Reason Code:

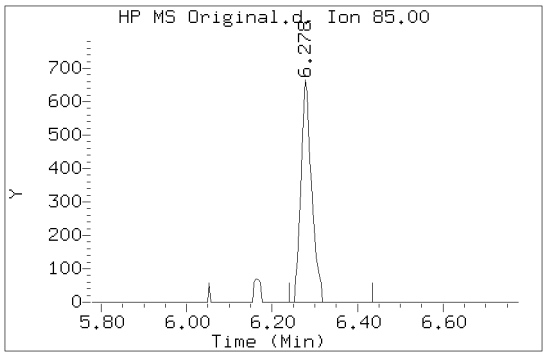
BEFORE
MASS
83
AREA
1825
HEIGHT
1058
07-May-2024
16:19
firat
tastan



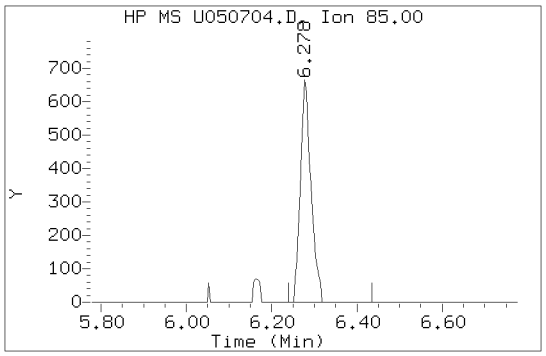
AFTER
MASS
83
AREA
1825
HEIGHT
1058
28-May-2024
10:32
firat



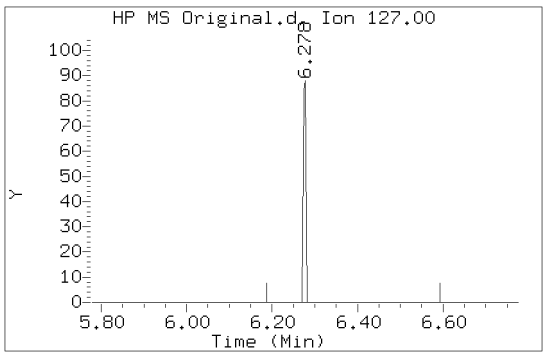
BEFORE
MASS
85
AREA
1173
HEIGHT
665
07-May-2024
16:19
firat
tastan



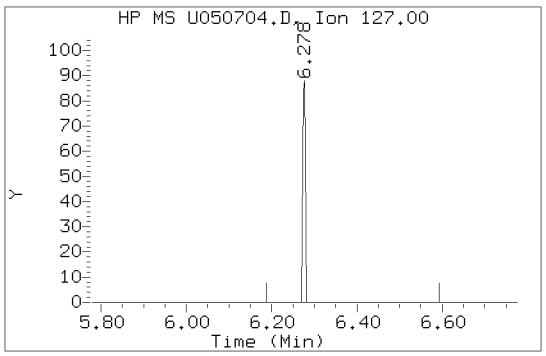
AFTER
MASS
85
AREA
1173
HEIGHT
665
28-May-2024
10:32
firat



BEFORE
MASS
127
AREA
38
HEIGHT
88
07-May-2024
16:19
firat
tastan



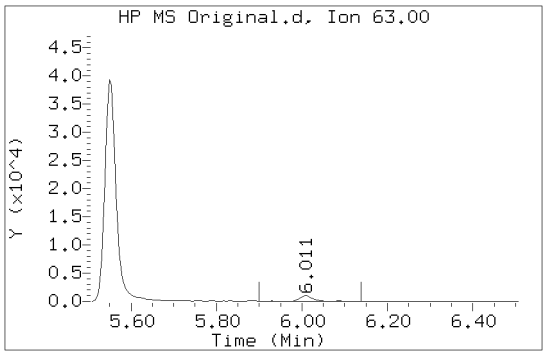
AFTER
MASS
127
AREA
38
HEIGHT
88
28-May-2024
10:32
firat



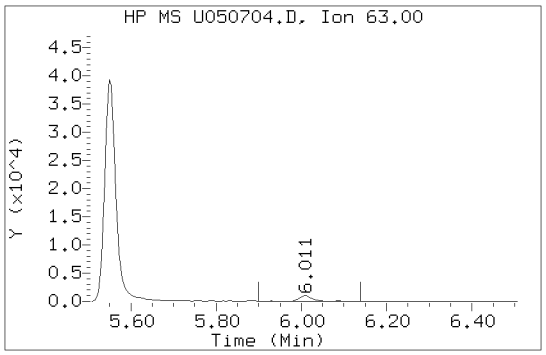
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
63
AREA
2166
HEIGHT
1061
07-May-2024
16:19
firat
tastan



AFTER
MASS
63
AREA
2166
HEIGHT
1061
28-May-2024
10:32
firat



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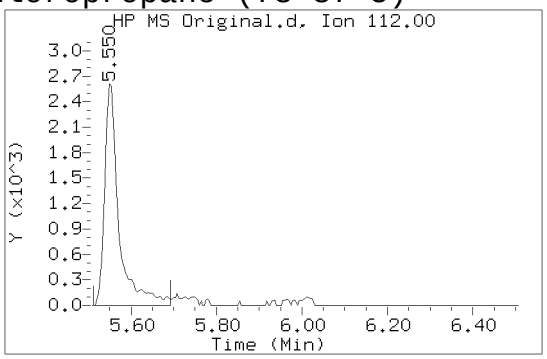
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

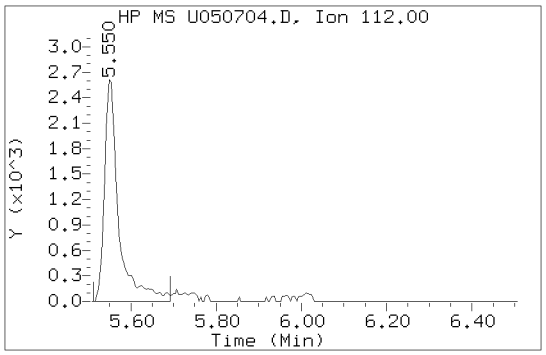
BEFORE

MASS
112
AREA
6056
HEIGHT
2613
07-May-2024
16:19
firat
tastan



AFTER

MASS
112
AREA
6056
HEIGHT
2613
28-May-2024
10:32
firat

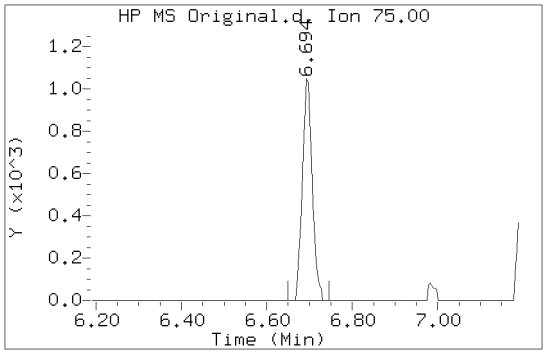


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

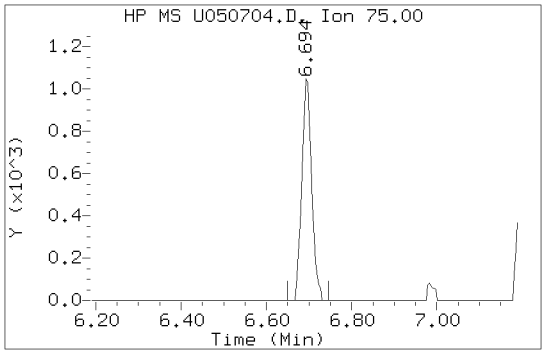
BEFORE

MASS
75
AREA
1704
HEIGHT
1049
07-May-2024
16:19
firat
tastan



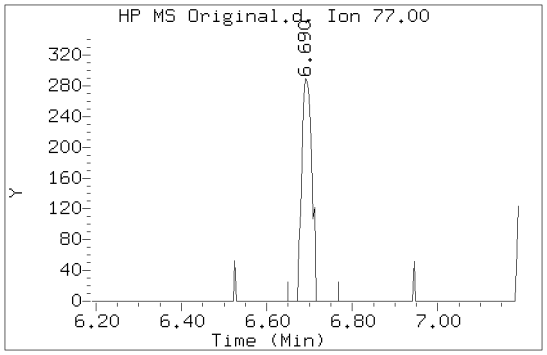
AFTER

MASS
75
AREA
1704
HEIGHT
1049
28-May-2024
10:32
firat



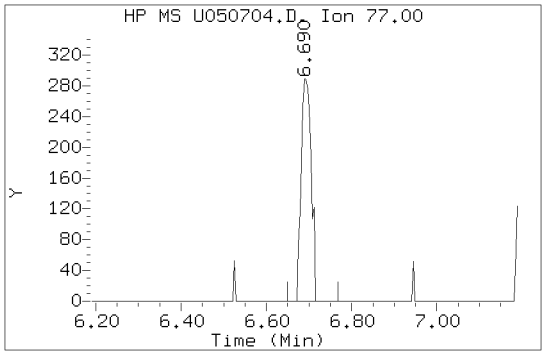
BEFORE

MASS
77
AREA
481
HEIGHT
289
07-May-2024
16:19
firat
tastan



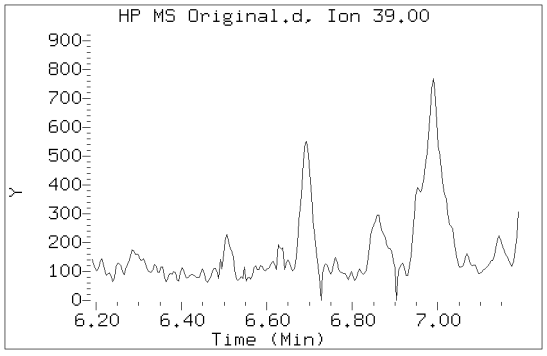
AFTER

MASS
77
AREA
481
HEIGHT
289
28-May-2024
10:32
firat



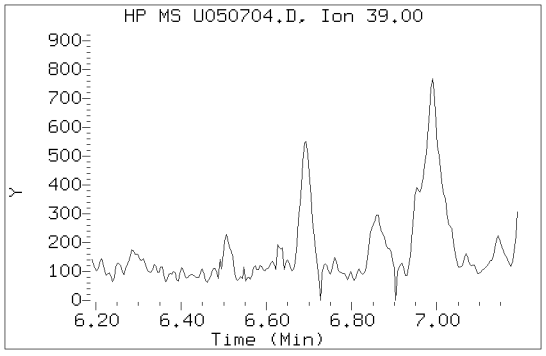
BEFORE

MASS
39
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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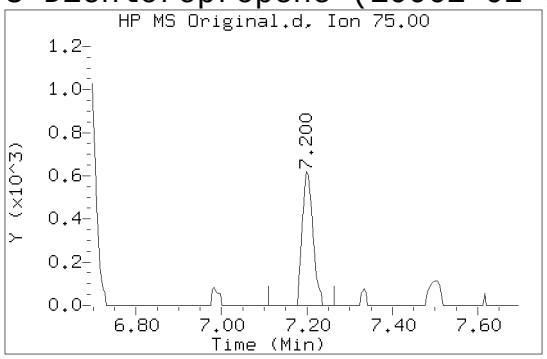
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

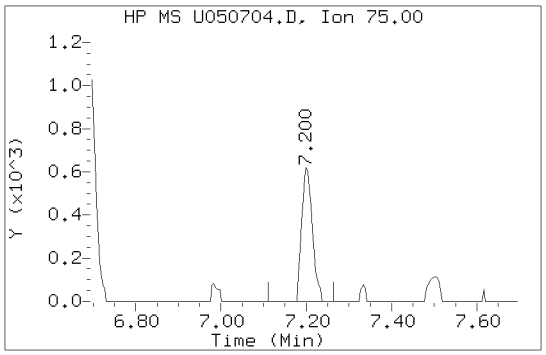
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

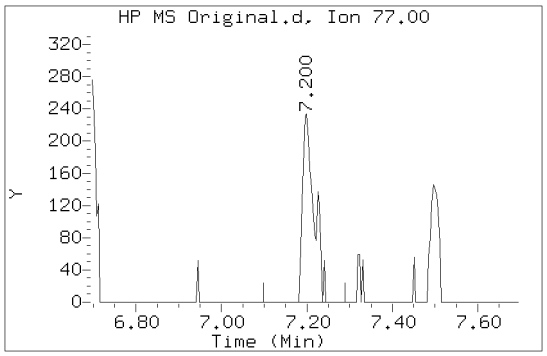
BEFORE
MASS
75
AREA
1103
HEIGHT
622
07-May-2024
16:19
firat
tastan



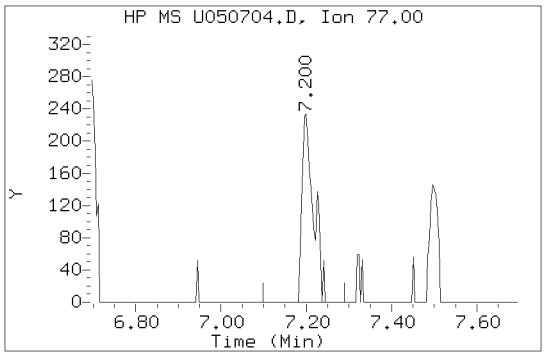
AFTER
MASS
75
AREA
1103
HEIGHT
622
28-May-2024
10:32
firat



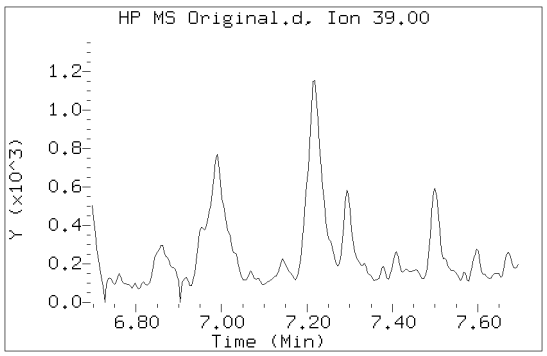
BEFORE
MASS
77
AREA
448
HEIGHT
234
07-May-2024
16:19
firat
tastan



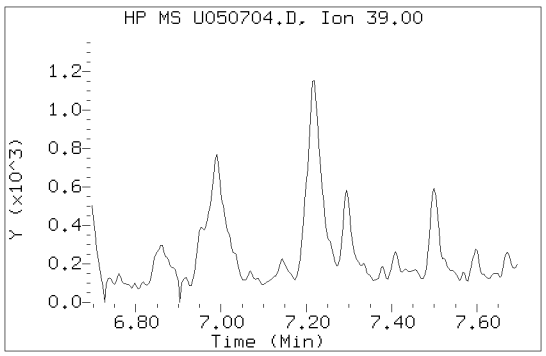
AFTER
MASS
77
AREA
448
HEIGHT
234
28-May-2024
10:32
firat



BEFORE
MASS
39
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



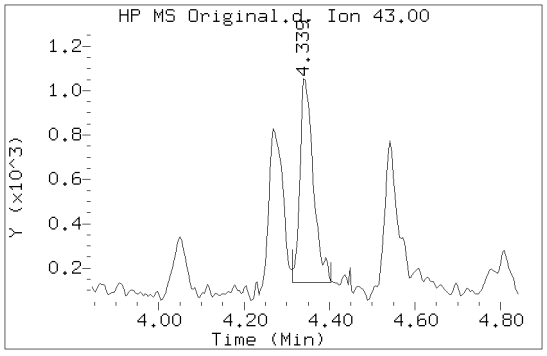
AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



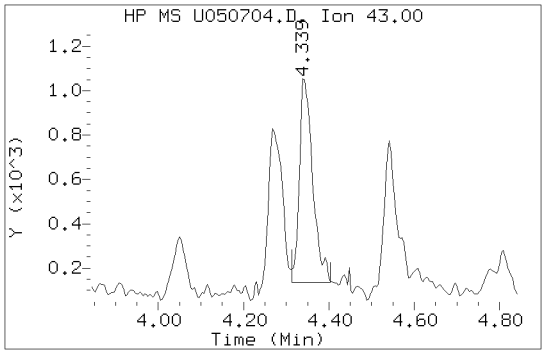
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
43
AREA
2021
HEIGHT
917
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
2021
HEIGHT
917
28-May-2024
10:32
firat



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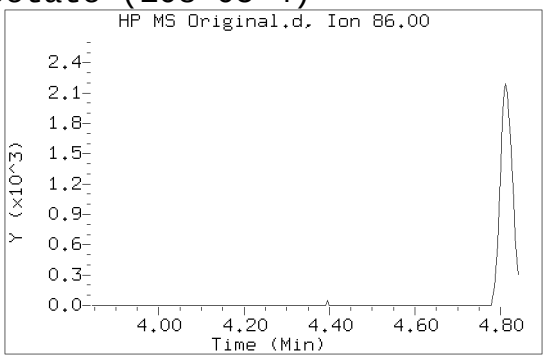
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

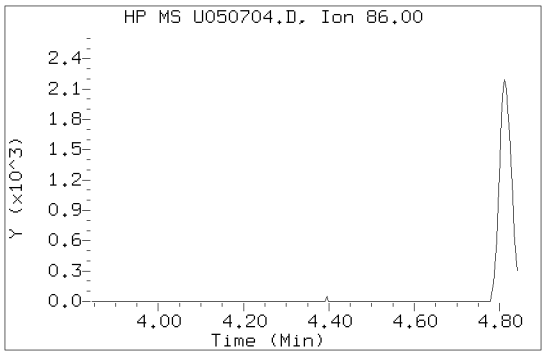
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

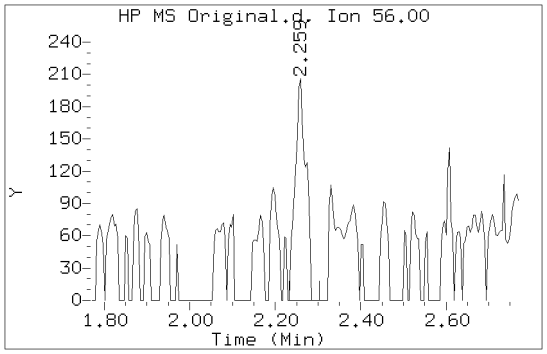


Acrolein (107-02-8)

Reason Code:

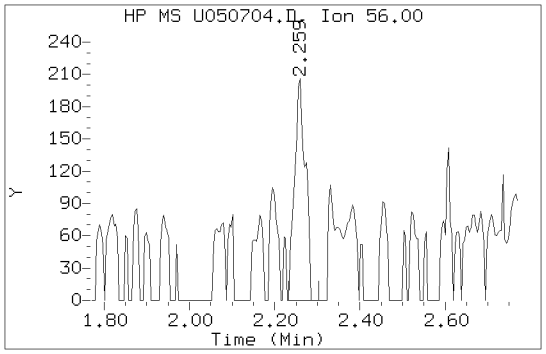
BEFORE

MASS
56
AREA
367
HEIGHT
206
07-May-2024
16:19
firat
tastan



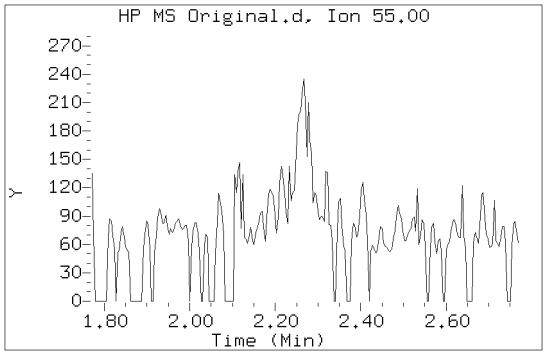
AFTER

MASS
56
AREA
367
HEIGHT
206
28-May-2024
10:32
firat



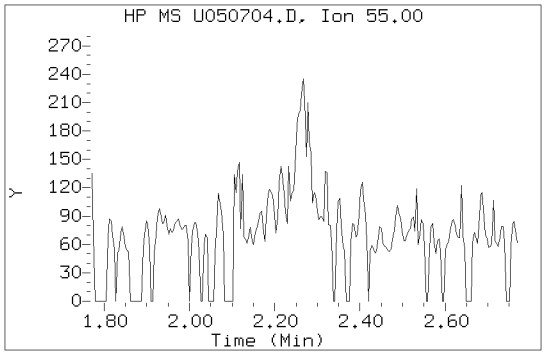
BEFORE

MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

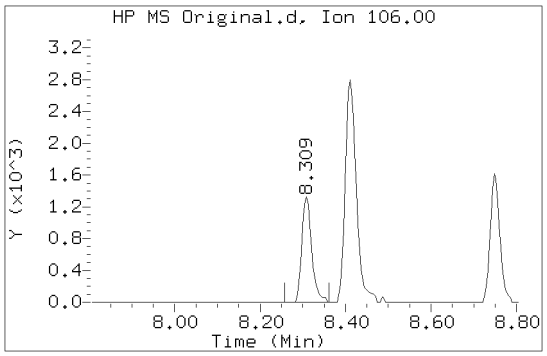


Ethylbenzene (100-41-4)

Reason Code:

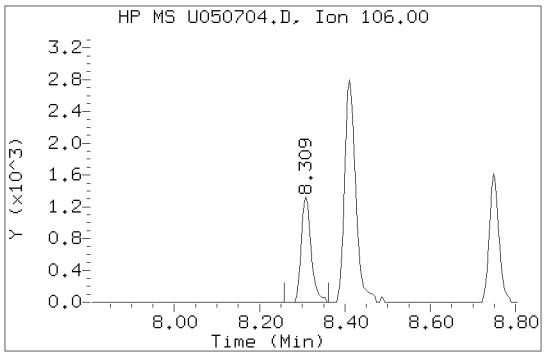
BEFORE

MASS
106
AREA
2177
HEIGHT
1328
07-May-2024
16:19
firat
tastan



AFTER

MASS
106
AREA
2177
HEIGHT
1328
28-May-2024
10:32
firat



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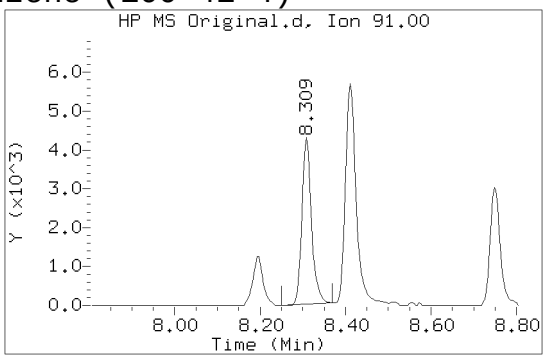
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Ethylbenzene (100-41-4)

Reason Code:

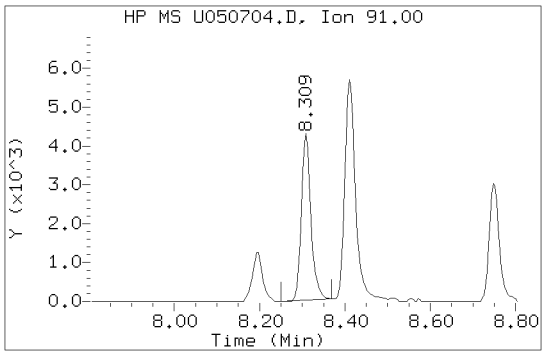
BEFORE

MASS
91
AREA
6734
HEIGHT
4282
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
6734
HEIGHT
4282
28-May-2024
10:32
firat

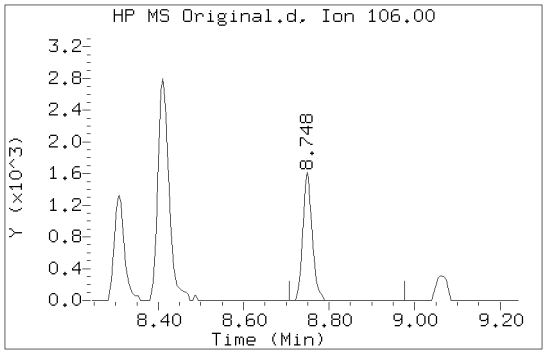


o-Xylene (95-47-6)

Reason Code:

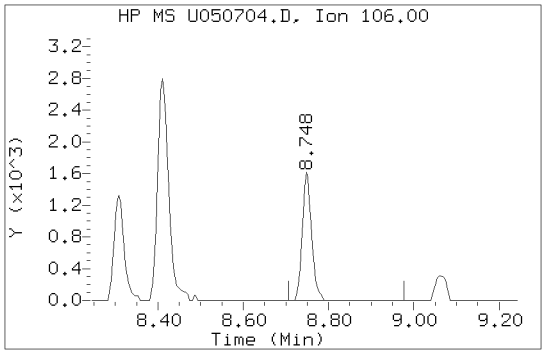
BEFORE

MASS
106
AREA
2506
HEIGHT
1621
07-May-2024
16:19
firat
tastan



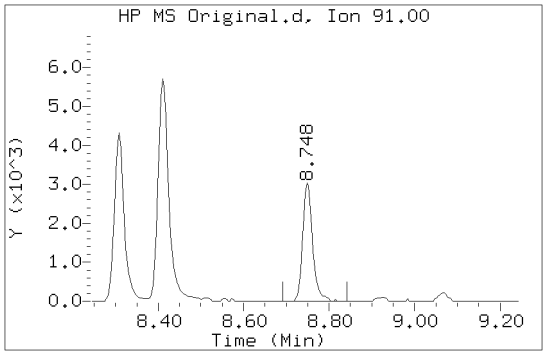
AFTER

MASS
106
AREA
2506
HEIGHT
1621
28-May-2024
10:32
firat



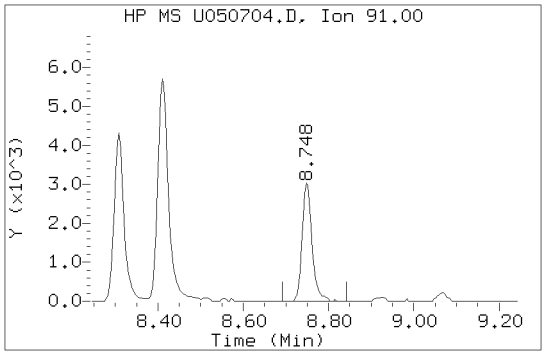
BEFORE

MASS
91
AREA
5014
HEIGHT
3035
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
5014
HEIGHT
3035
28-May-2024
10:32
firat

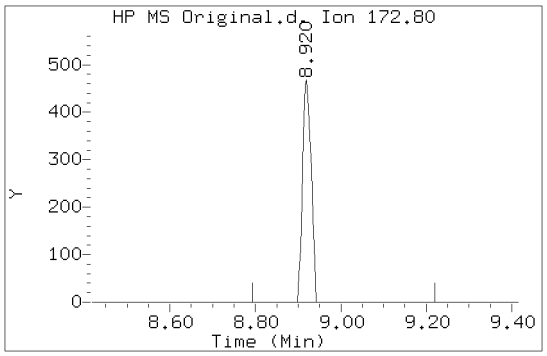


Bromoform (75-25-2)

Reason Code:

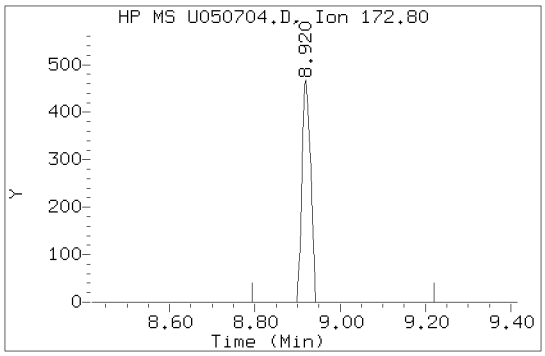
BEFORE

MASS
172.8
AREA
666
HEIGHT
468
07-May-2024
16:19
firat
tastan



AFTER

MASS
172.8
AREA
666
HEIGHT
468
28-May-2024
10:32
firat



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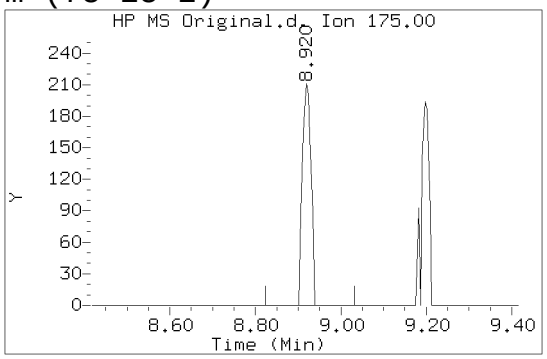
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

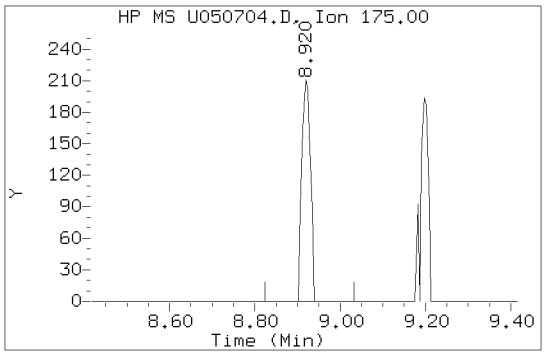
BEFORE

MASS
175
AREA
303
HEIGHT
211
07-May-2024
16:19
firat
tastan



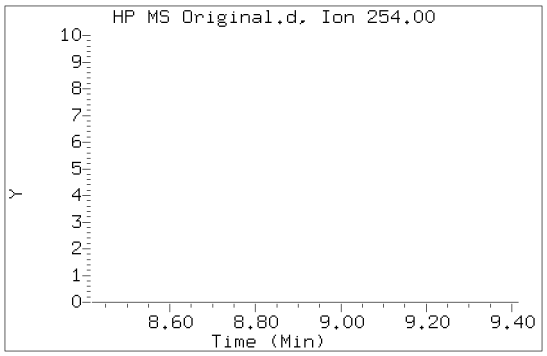
AFTER

MASS
175
AREA
303
HEIGHT
211
28-May-2024
10:32
firat



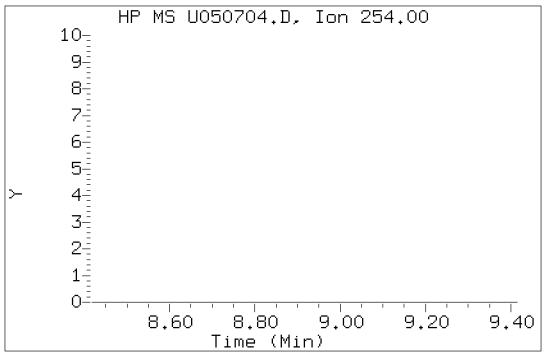
BEFORE

MASS
254
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
254
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

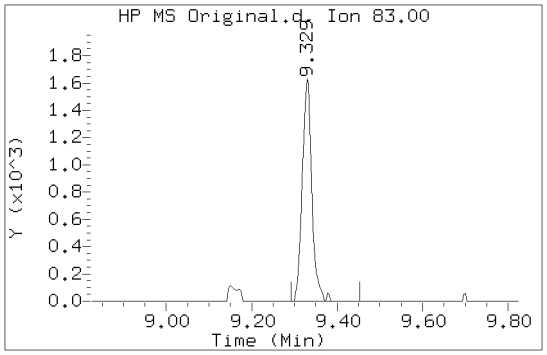


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

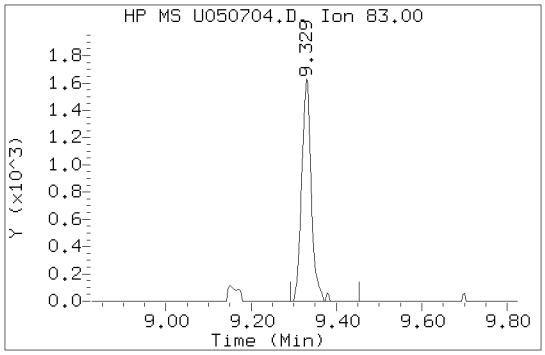
BEFORE

MASS
83
AREA
2612
HEIGHT
1630
07-May-2024
16:19
firat
tastan



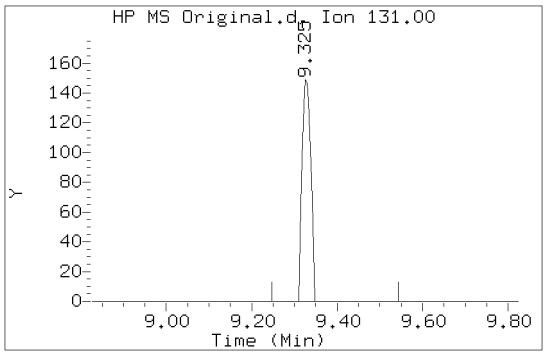
AFTER

MASS
83
AREA
2612
HEIGHT
1630
28-May-2024
10:32
firat



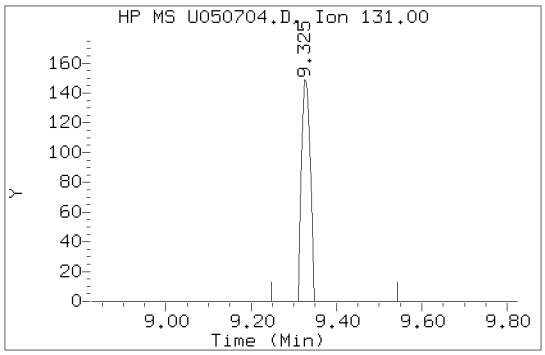
BEFORE

MASS
131
AREA
218
HEIGHT
149
07-May-2024
16:19
firat
tastan



AFTER

MASS
131
AREA
218
HEIGHT
149
28-May-2024
10:32
firat



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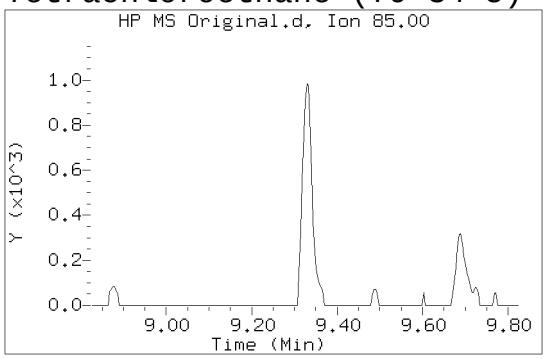
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

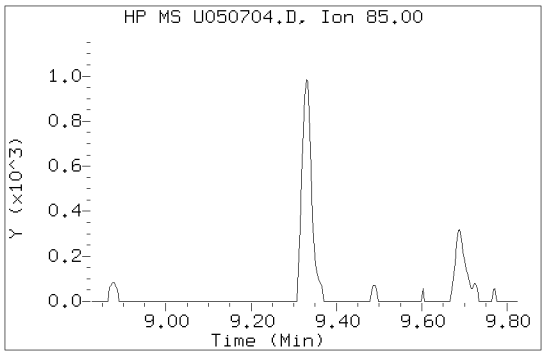
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

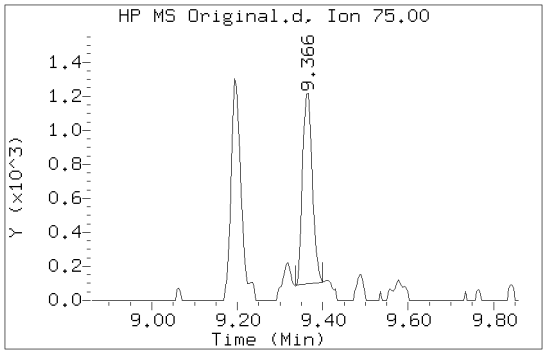


1,2,3-Trichloropropane (96-18-4)

Reason Code:

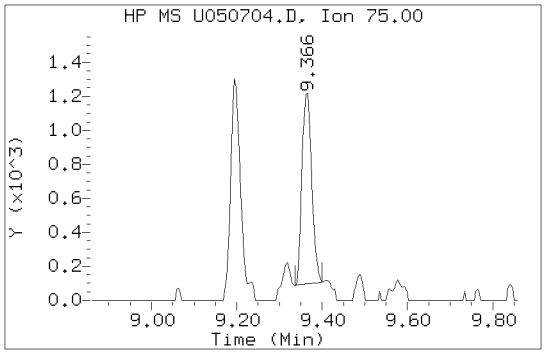
BEFORE

MASS
75
AREA
1812
HEIGHT
1119
07-May-2024
16:19
firat
tastan



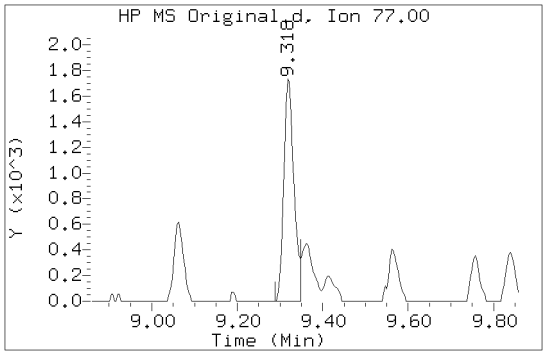
AFTER

MASS
75
AREA
1812
HEIGHT
1119
28-May-2024
10:32
firat



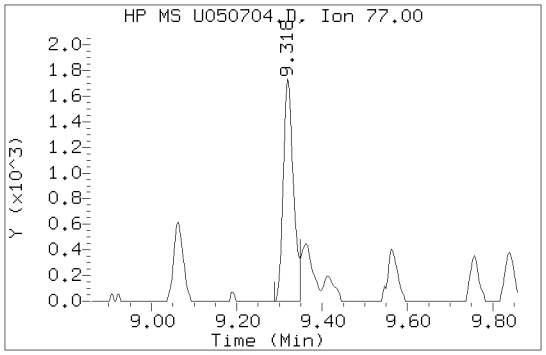
BEFORE

MASS
77
AREA
2872
HEIGHT
1734
07-May-2024
16:19
firat
tastan



AFTER

MASS
77
AREA
2872
HEIGHT
1734
28-May-2024
10:32
firat

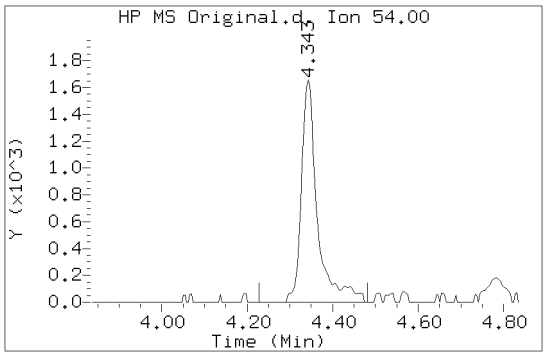


Propionitrile (107-12-0)

Reason Code:

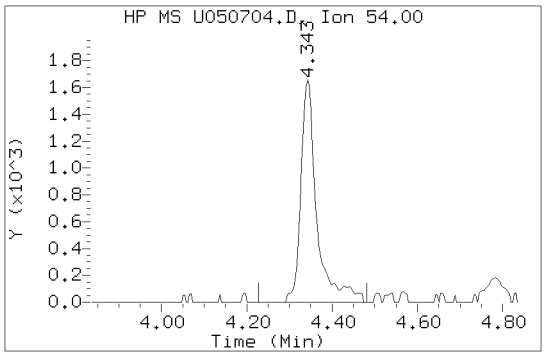
BEFORE

MASS
54
AREA
4378
HEIGHT
1657
07-May-2024
16:19
firat
tastan



AFTER

MASS
54
AREA
4378
HEIGHT
1657
28-May-2024
10:32
firat



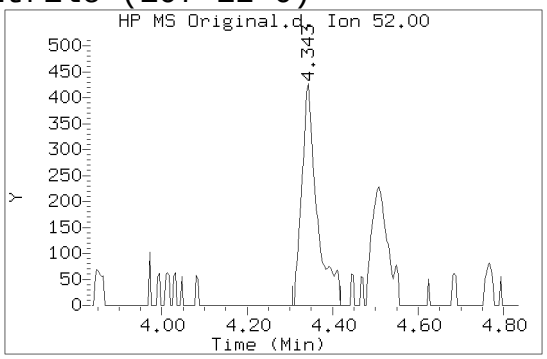
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

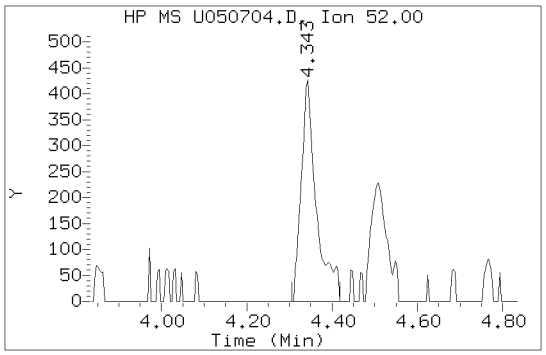
BEFORE

MASS
52
AREA
1065
HEIGHT
427
07-May-2024
16:19
firat
tastan



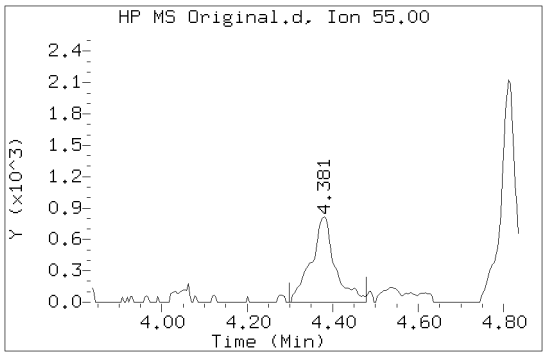
AFTER

MASS
52
AREA
1065
HEIGHT
427
28-May-2024
10:32
firat



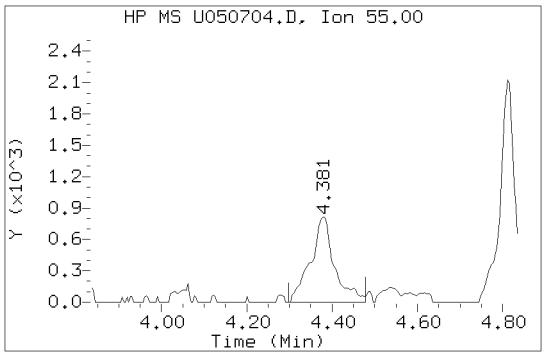
BEFORE

MASS
55
AREA
3198
HEIGHT
820
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
3198
HEIGHT
820
28-May-2024
10:32
firat

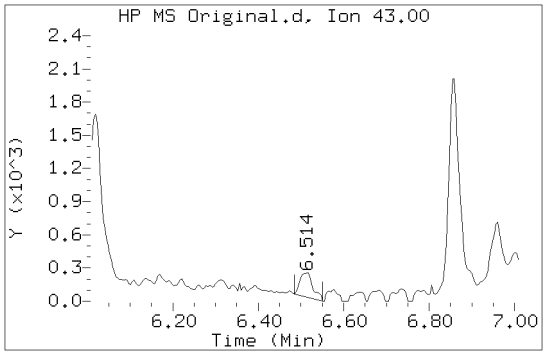


2-Nitropropane (79-46-9)

Reason Code:

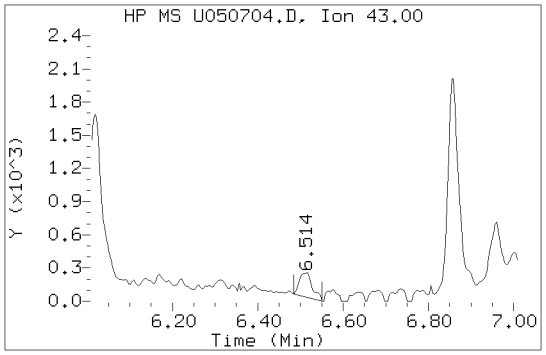
BEFORE

MASS
43
AREA
471
HEIGHT
221
07-May-2024
16:19
firat
tastan



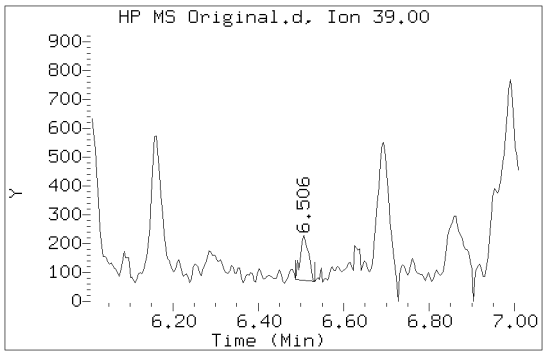
AFTER

MASS
43
AREA
471
HEIGHT
221
28-May-2024
10:32
firat



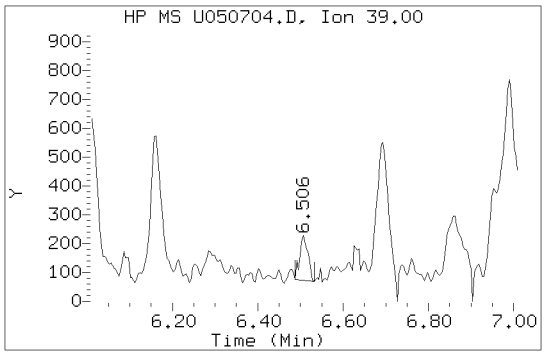
BEFORE

MASS
39
AREA
211
HEIGHT
155
07-May-2024
16:19
firat
tastan



AFTER

MASS
39
AREA
211
HEIGHT
155
28-May-2024
10:32
firat



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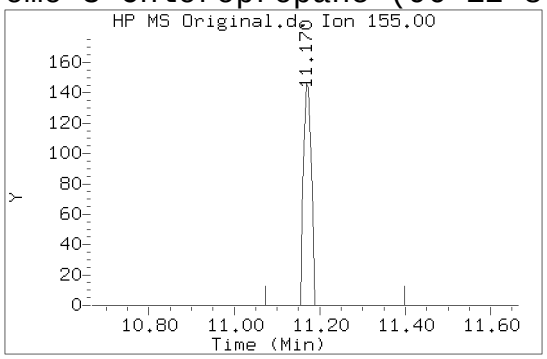
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

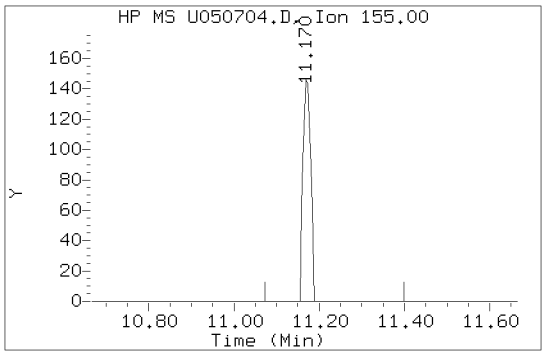
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

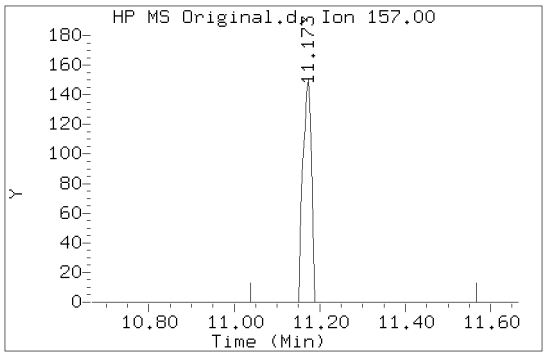
BEFORE
MASS
155
AREA
188
HEIGHT
146
07-May-2024
16:19
firat
tastan



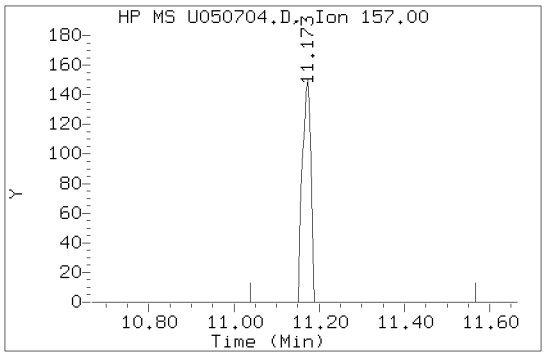
AFTER
MASS
155
AREA
188
HEIGHT
146
28-May-2024
10:32
firat



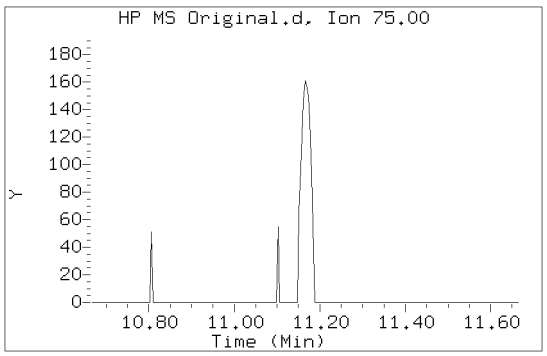
BEFORE
MASS
157
AREA
211
HEIGHT
150
07-May-2024
16:19
firat
tastan



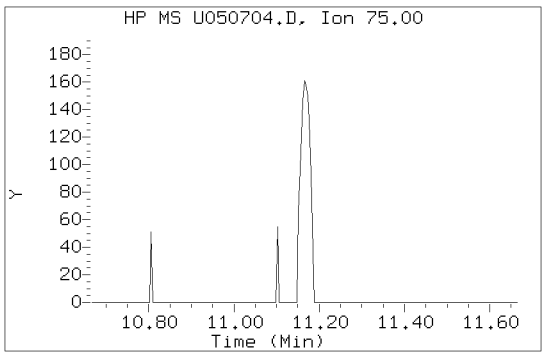
AFTER
MASS
157
AREA
211
HEIGHT
150
28-May-2024
10:32
firat



BEFORE
MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



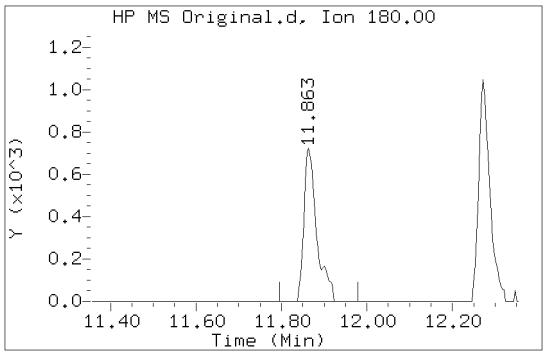
AFTER
MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



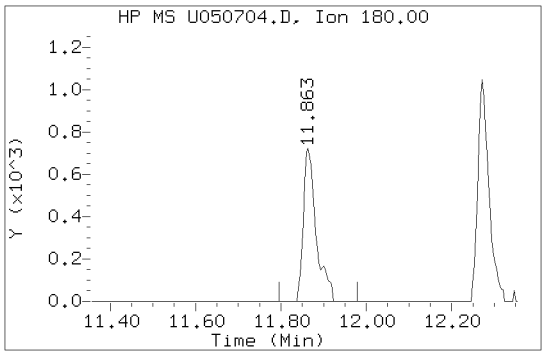
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
1543
HEIGHT
725
07-May-2024
16:19
firat
tastan



AFTER
MASS
180
AREA
1543
HEIGHT
725
28-May-2024
10:32
firat



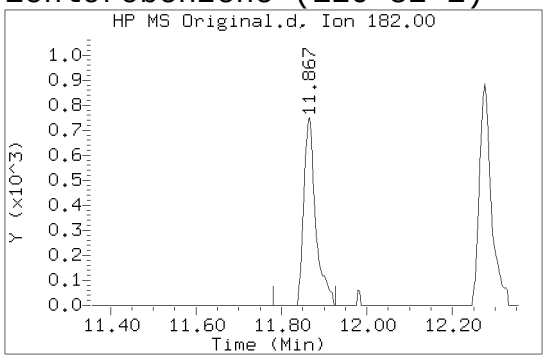
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

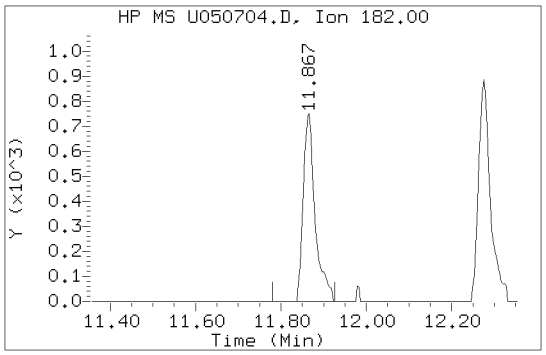
BEFORE

MASS
182
AREA
1489
HEIGHT
750
07-May-2024
16:19
firat
tastan



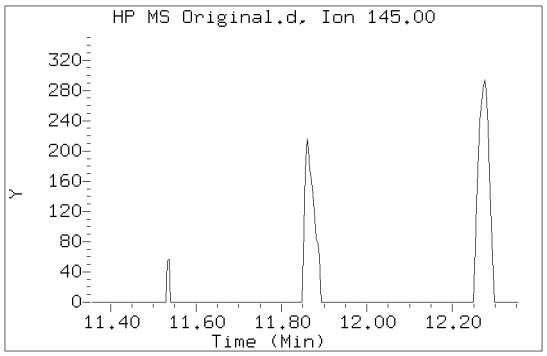
AFTER

MASS
182
AREA
1489
HEIGHT
750
28-May-2024
10:32
firat



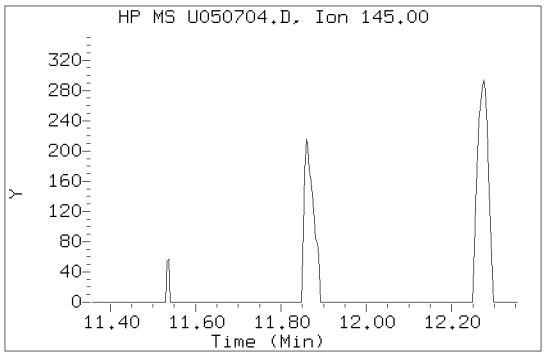
BEFORE

MASS
145
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

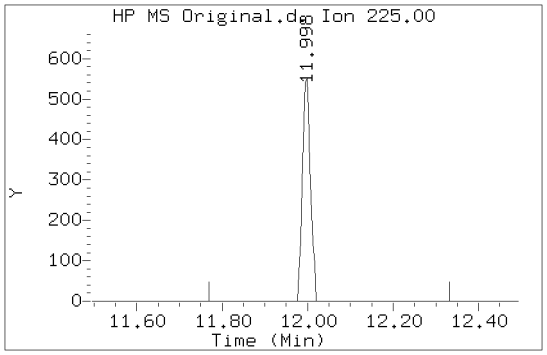


Hexachlorobutadiene (87-68-3)

Reason Code:

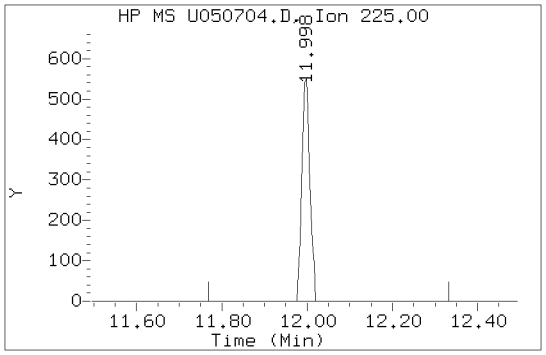
BEFORE

MASS
225
AREA
743
HEIGHT
550
07-May-2024
16:19
firat
tastan



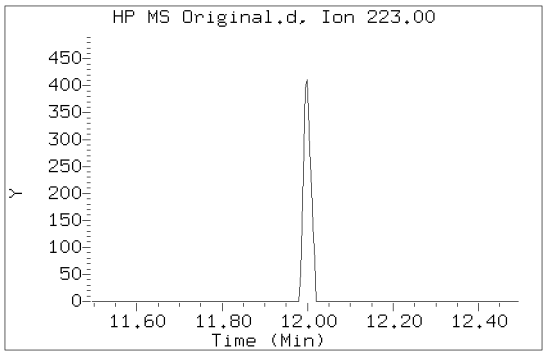
AFTER

MASS
225
AREA
743
HEIGHT
550
28-May-2024
10:32
firat



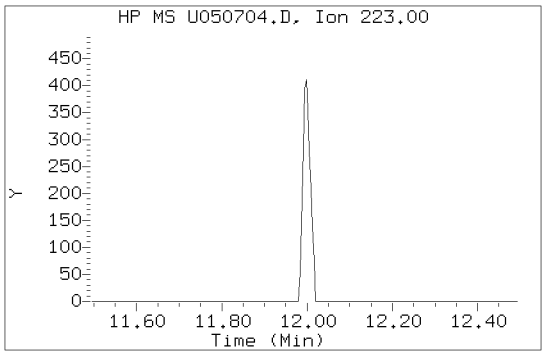
BEFORE

MASS
223
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
223
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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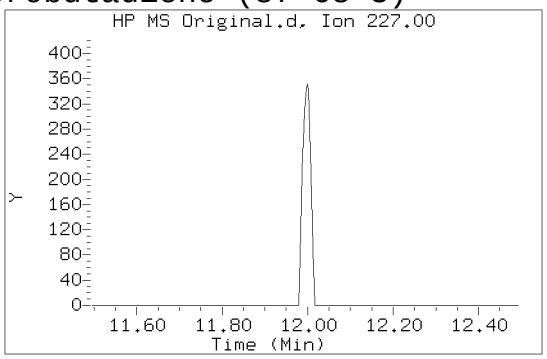
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

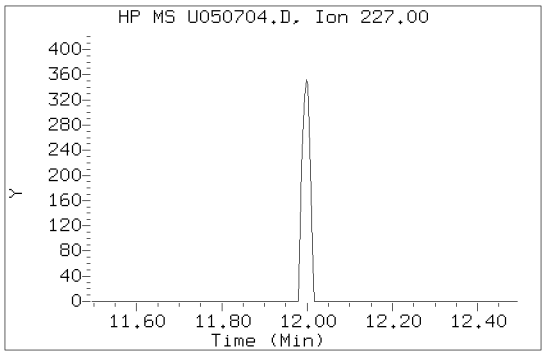
BEFORE

MASS
227
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

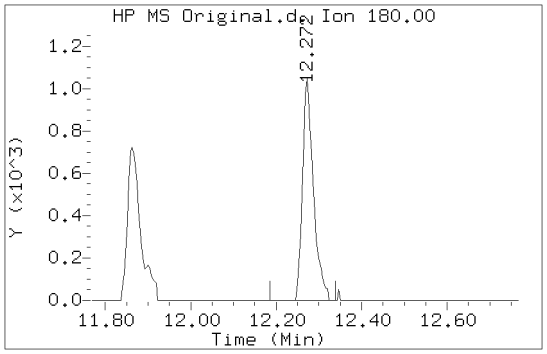


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

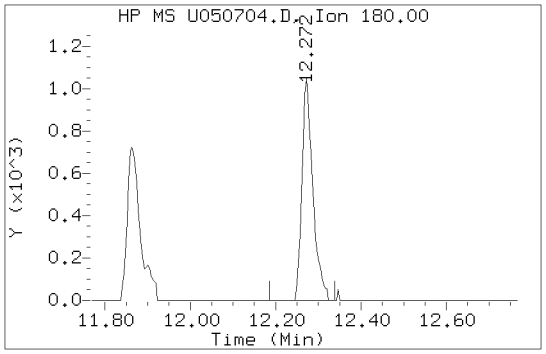
BEFORE

MASS
180
AREA
1899
HEIGHT
1047
07-May-2024
16:19
firat
tastan



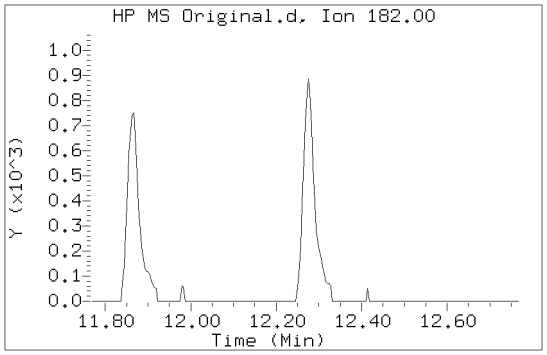
AFTER

MASS
180
AREA
1899
HEIGHT
1047
28-May-2024
10:32
firat



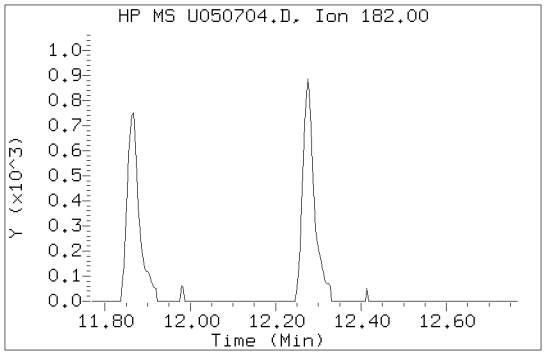
BEFORE

MASS
182
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



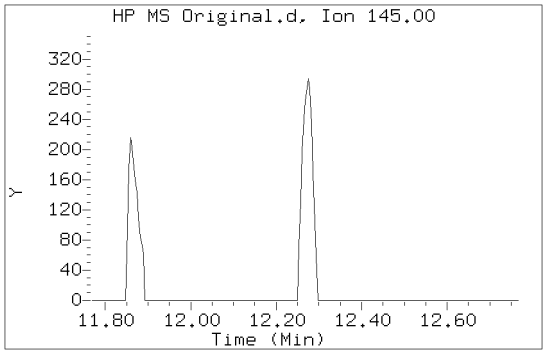
AFTER

MASS
182
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



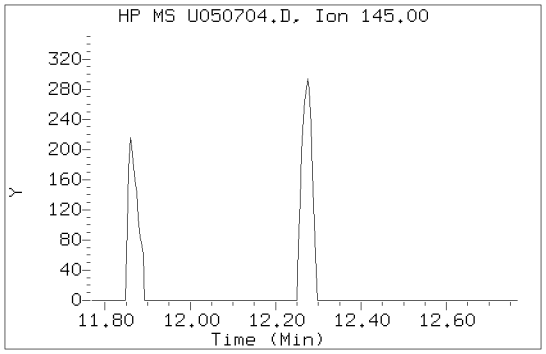
BEFORE

MASS
145
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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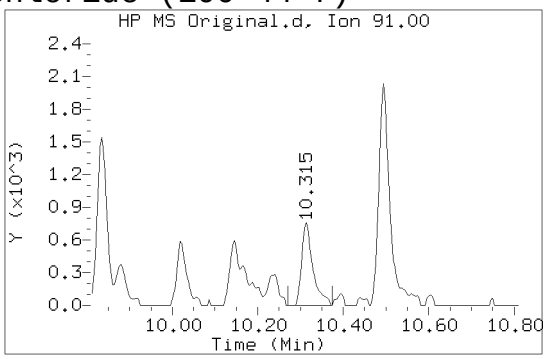
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

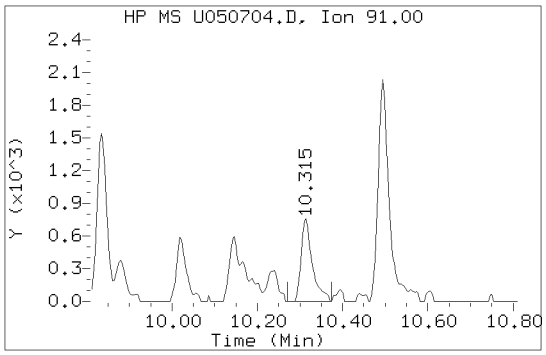
Benzyl Chloride (100-44-7)

Reason Code:

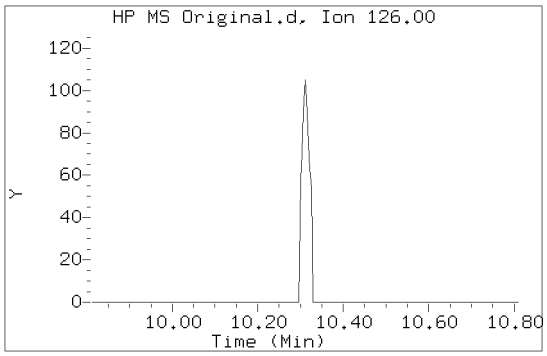
BEFORE
MASS
91
AREA
1403
HEIGHT
761
07-May-2024
16:19
firat
tastan



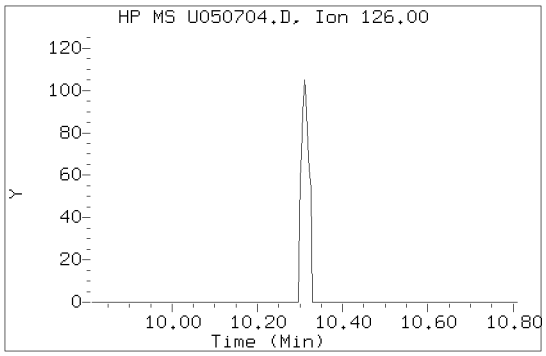
AFTER
MASS
91
AREA
1403
HEIGHT
761
28-May-2024
10:32
firat



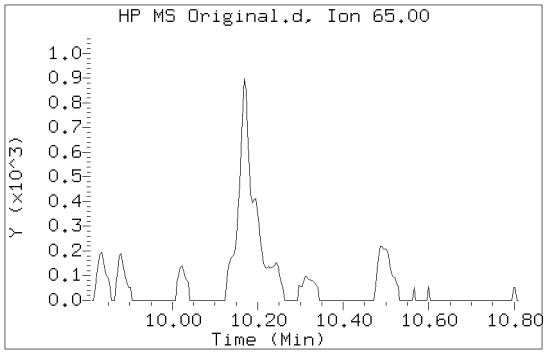
BEFORE
MASS
126
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



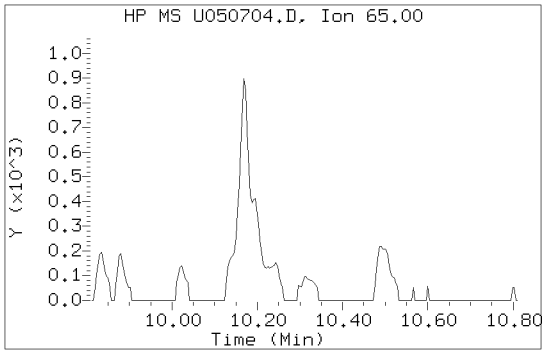
AFTER
MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



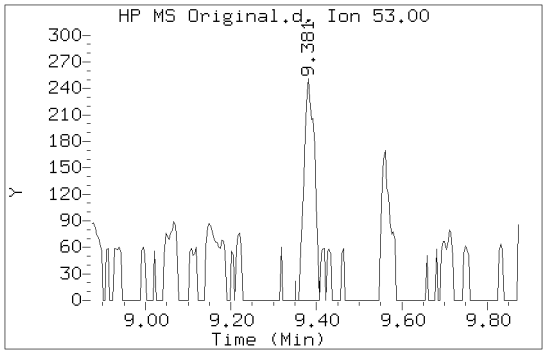
AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



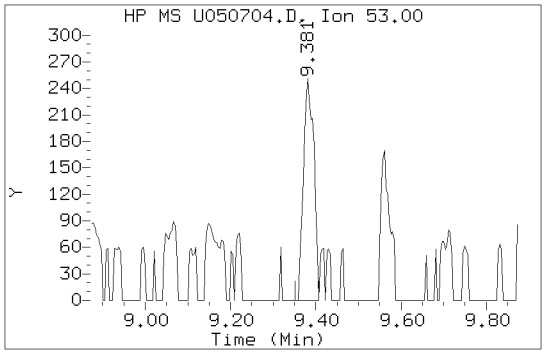
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
435
HEIGHT
251
07-May-2024
16:19
firat
tastan



AFTER
MASS
53
AREA
435
HEIGHT
251
28-May-2024
10:32
firat



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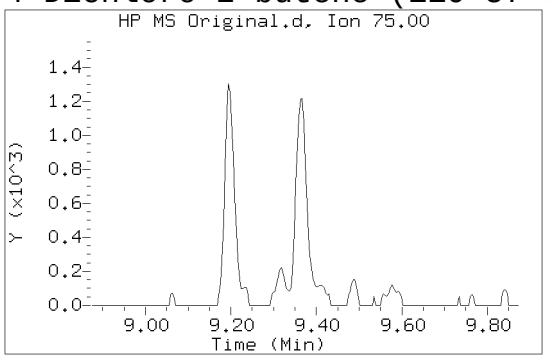
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

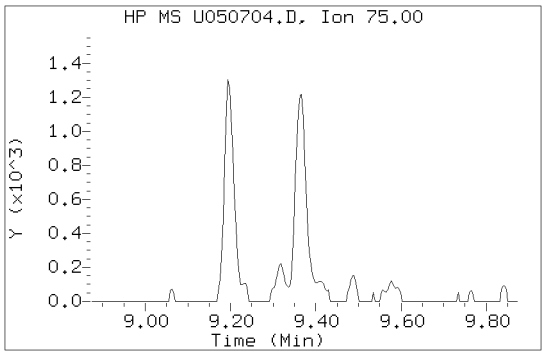
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



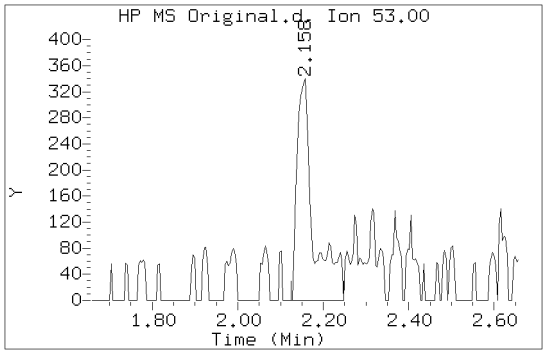
AFTER
MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



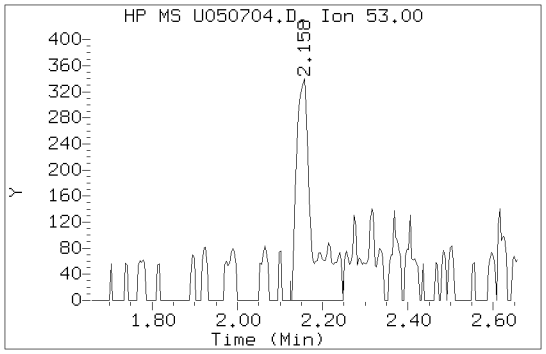
Chloroprene (126-99-8)

Reason Code:

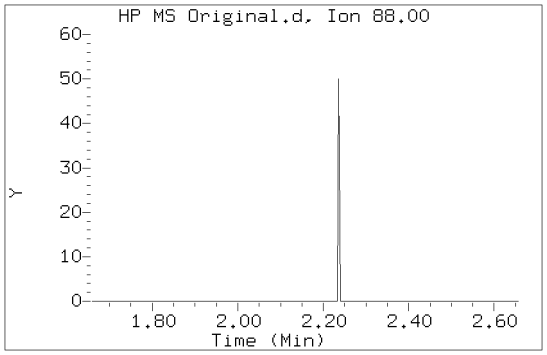
BEFORE
MASS
53
AREA
924
HEIGHT
340
07-May-2024
16:19
firat
tastan



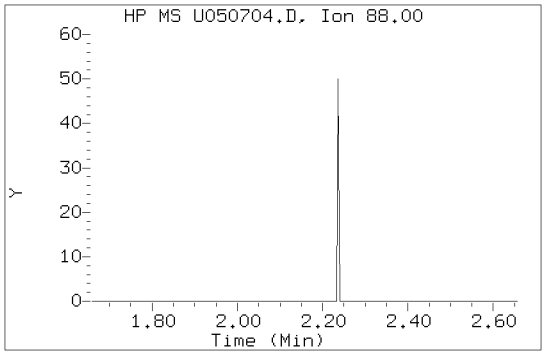
AFTER
MASS
53
AREA
924
HEIGHT
340
28-May-2024
10:32
firat



BEFORE
MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



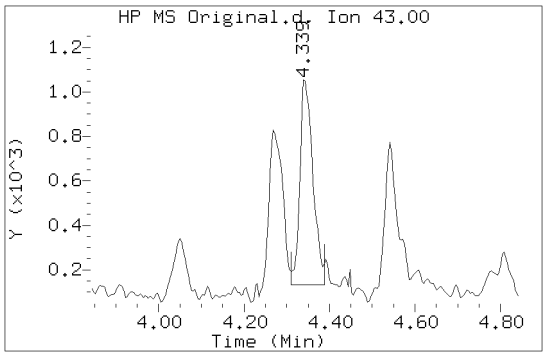
AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



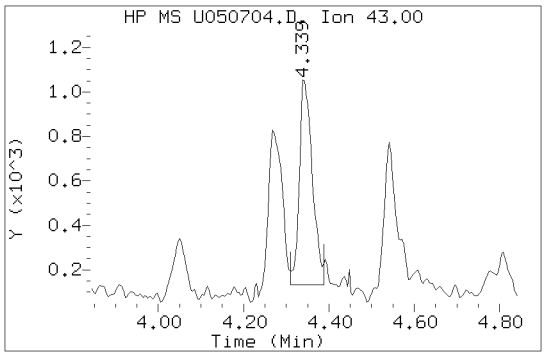
Ethyl Acetate (141-78-6)

Reason Code:

BEFORE
MASS
43
AREA
1997
HEIGHT
920
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
1997
HEIGHT
920
28-May-2024
10:32
firat



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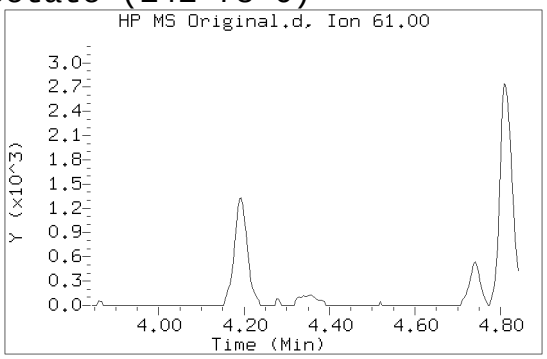
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

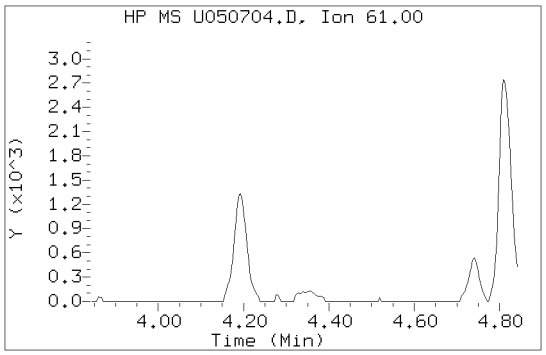
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



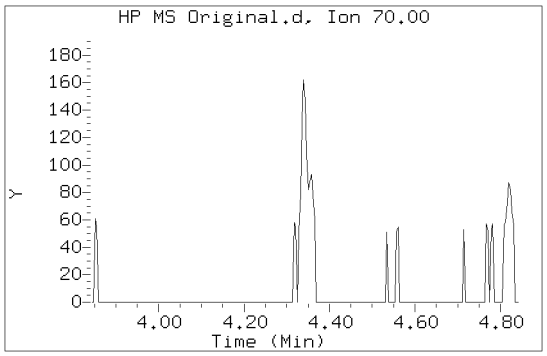
AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



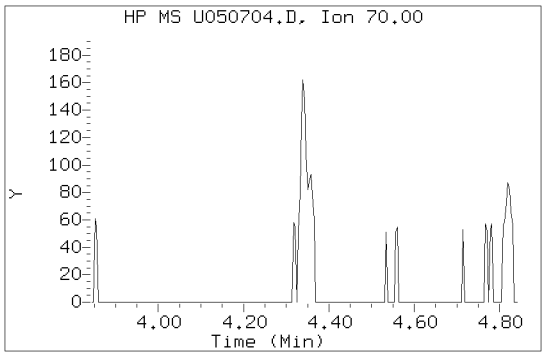
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

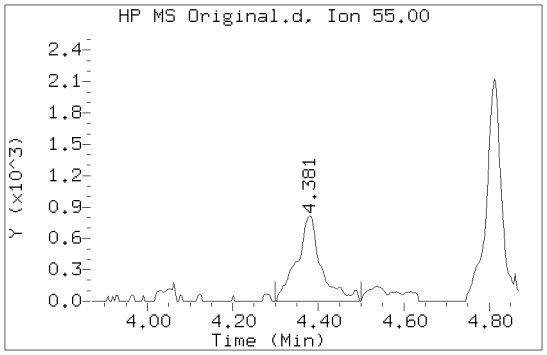


Methyl Acrylate (96-33-3)

Reason Code:

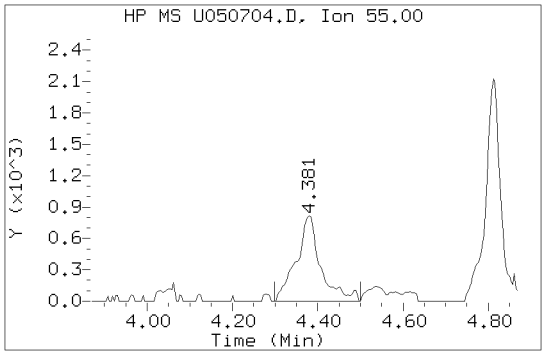
BEFORE

MASS
55
AREA
3276
HEIGHT
820
07-May-2024
16:19
firat
tastan



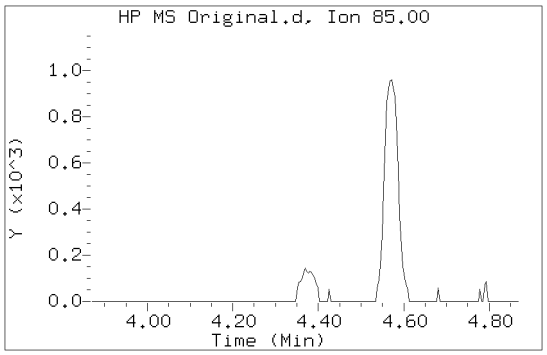
AFTER

MASS
55
AREA
3276
HEIGHT
820
28-May-2024
10:32
firat



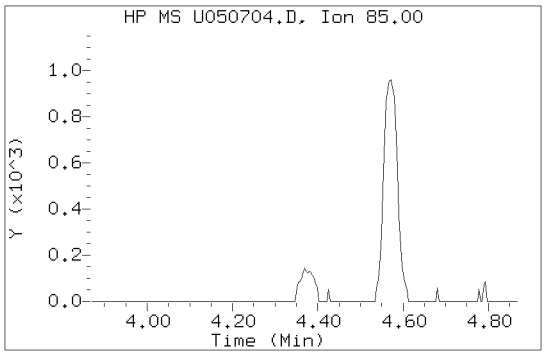
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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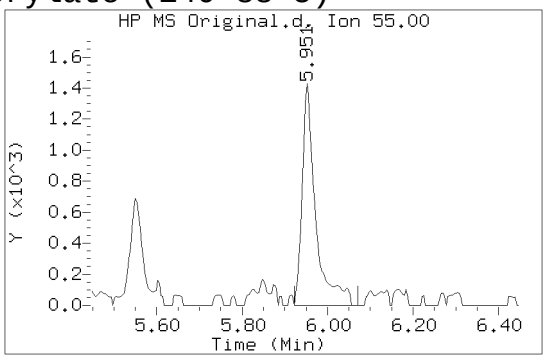
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

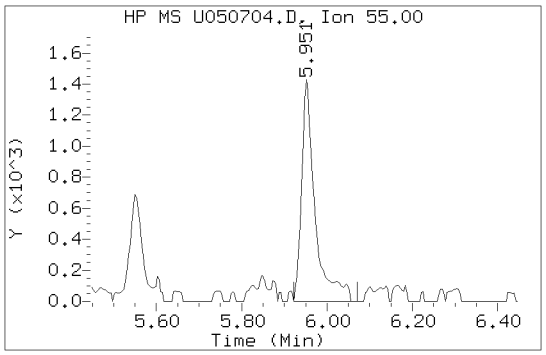
BEFORE

MASS
55
AREA
3187
HEIGHT
1428
07-May-2024
16:19
firat
tastan



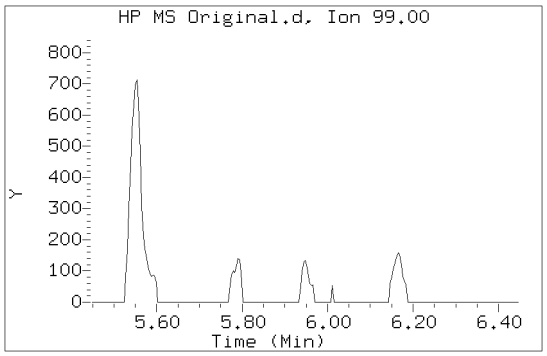
AFTER

MASS
55
AREA
3187
HEIGHT
1428
28-May-2024
10:32
firat



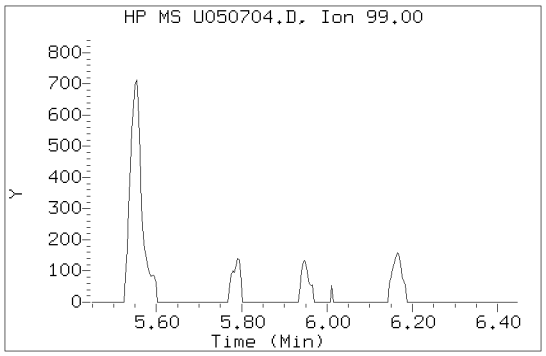
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

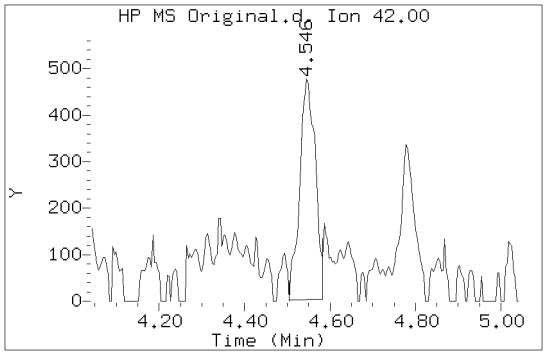


Tetrahydrofuran (109-99-9)

Reason Code:

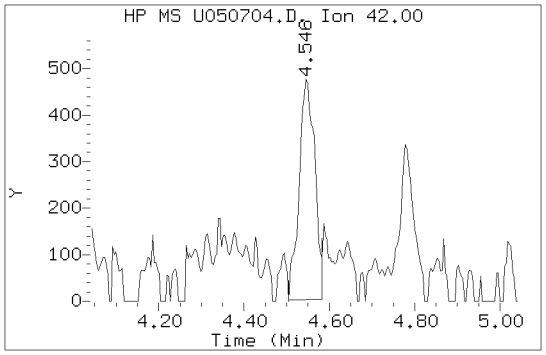
BEFORE

MASS
42
AREA
1229
HEIGHT
474
07-May-2024
16:19
firat
tastan



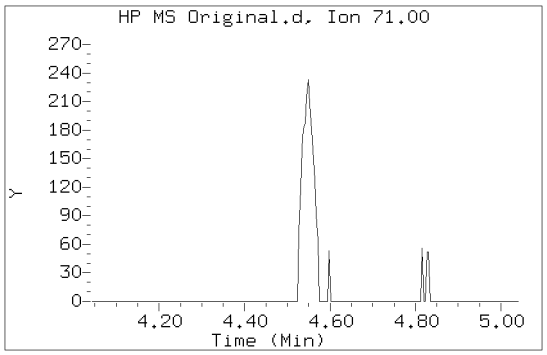
AFTER

MASS
42
AREA
1229
HEIGHT
474
28-May-2024
10:32
firat



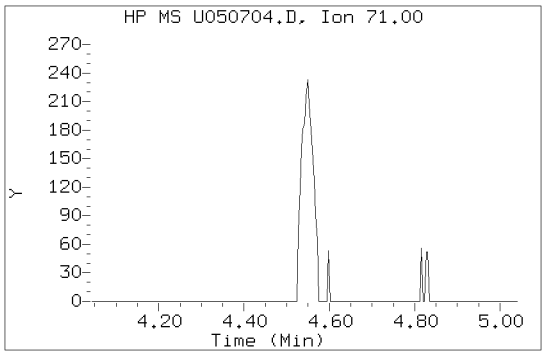
BEFORE

MASS
71
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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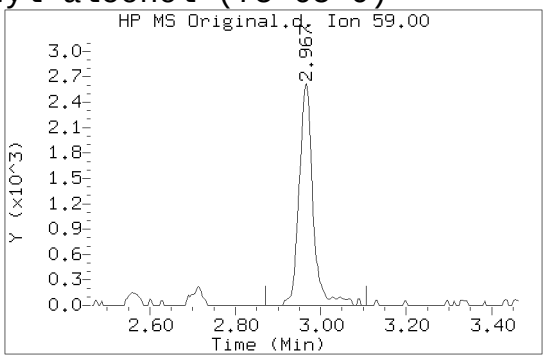
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Tert-butyl alcohol (75-65-0)

Reason Code:

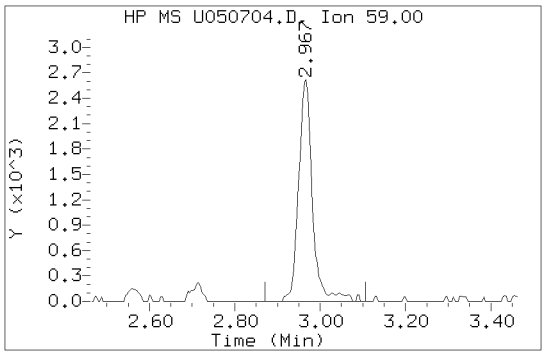
BEFORE

MASS
59
AREA
6018
HEIGHT
2619
07-May-2024
16:19
firat
tastan



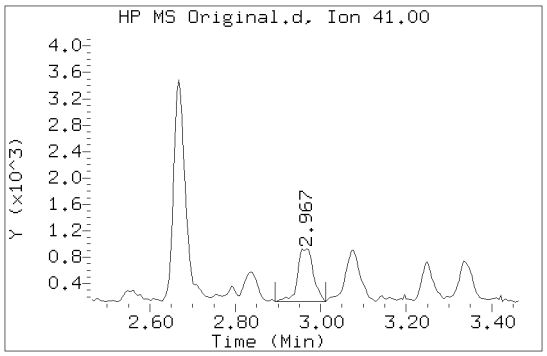
AFTER

MASS
59
AREA
6018
HEIGHT
2619
28-May-2024
10:32
firat



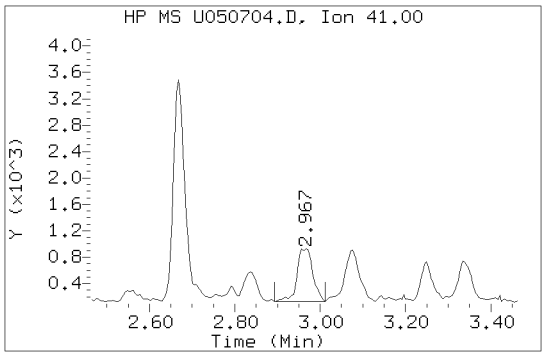
BEFORE

MASS
41
AREA
2077
HEIGHT
800
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
2077
HEIGHT
800
28-May-2024
10:32
firat

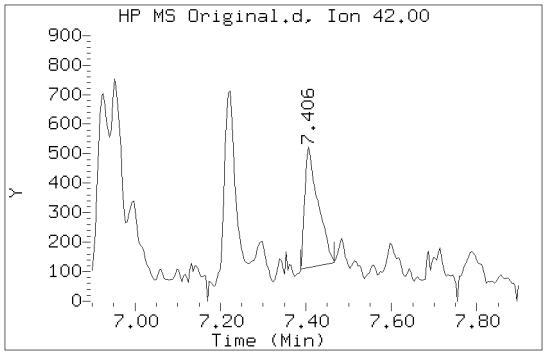


Amyl alcohol (71-41-0)

Reason Code:

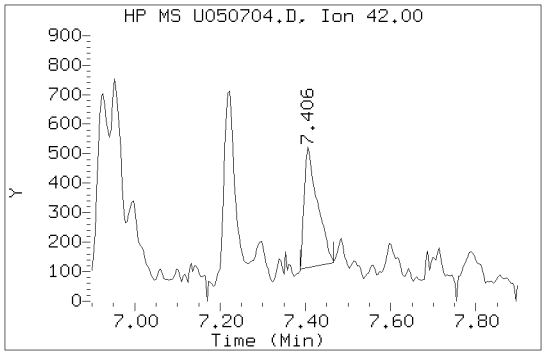
BEFORE

MASS
42
AREA
878
HEIGHT
408
07-May-2024
16:19
firat
tastan



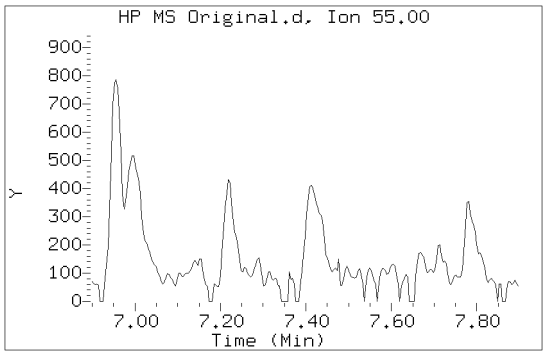
AFTER

MASS
42
AREA
878
HEIGHT
408
28-May-2024
10:32
firat



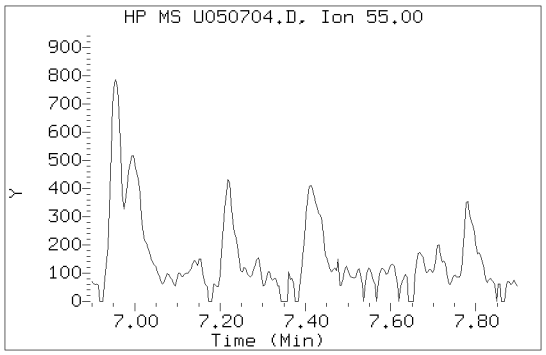
BEFORE

MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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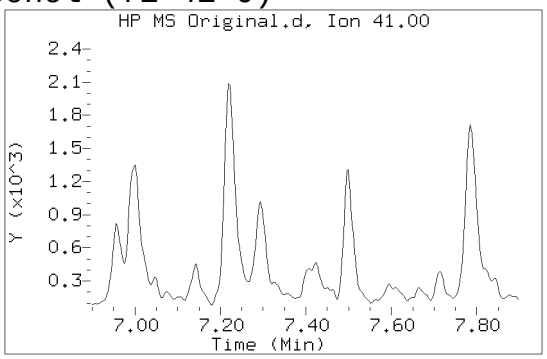
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

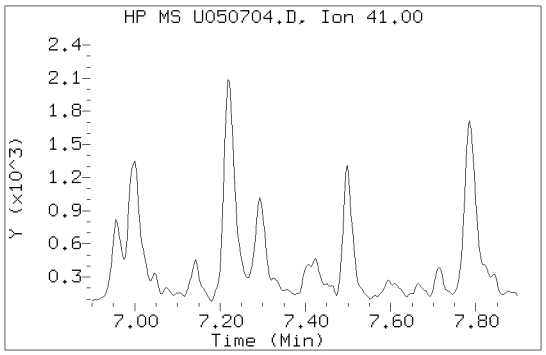
Amyl alcohol (71-41-0)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



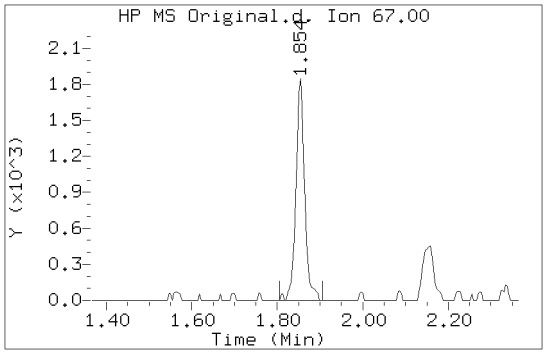
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



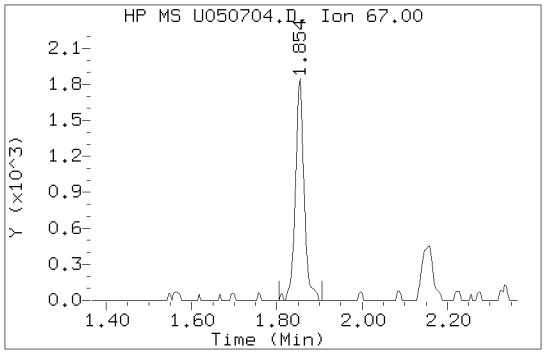
Dichlorofluoromethane (75-43-4)

Reason Code:

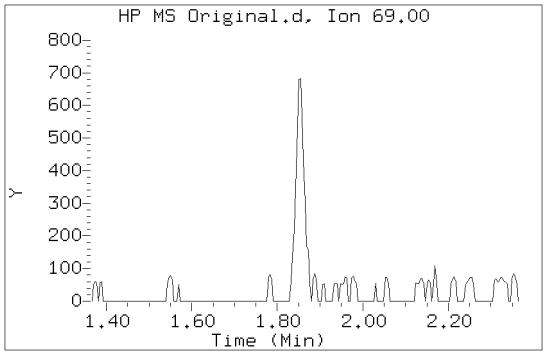
BEFORE
MASS
67
AREA
2684
HEIGHT
1847
07-May-2024
16:19
firat
tastan



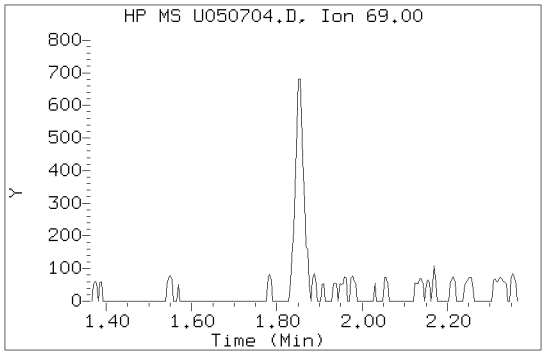
AFTER
MASS
67
AREA
2684
HEIGHT
1847
28-May-2024
10:32
firat



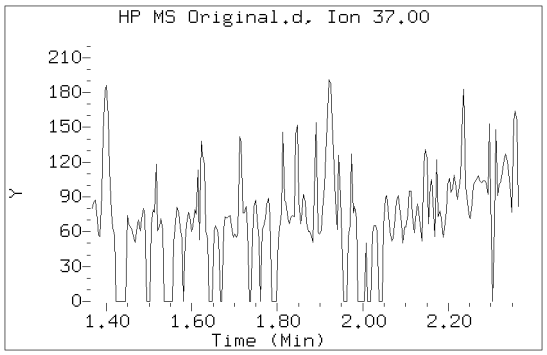
BEFORE
MASS
69
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



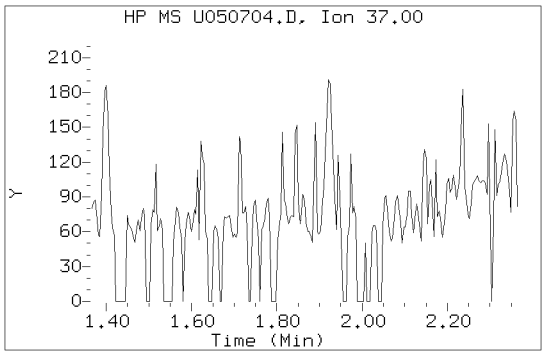
AFTER
MASS
69
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
37
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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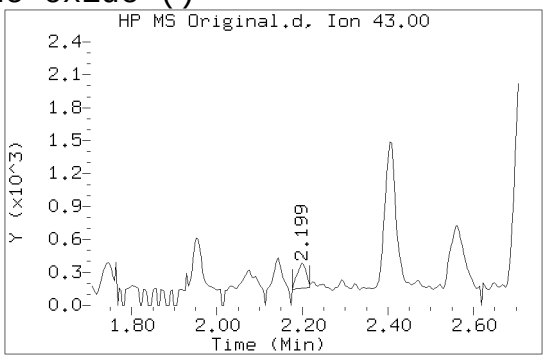
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

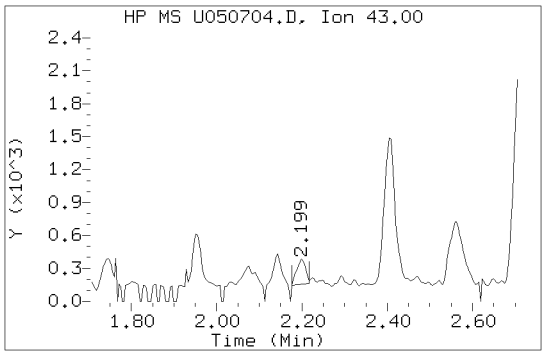
Propylene oxide ()

Reason Code:

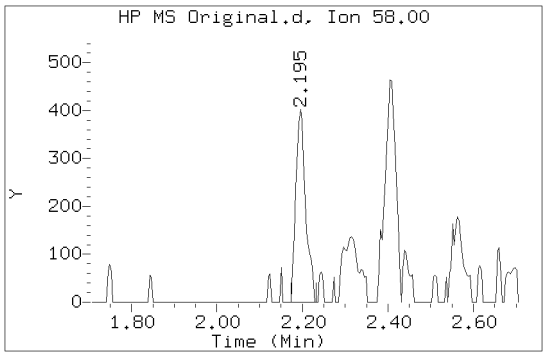
BEFORE
MASS
43
AREA
349
HEIGHT
231
07-May-2024
16:19
firat
tastan



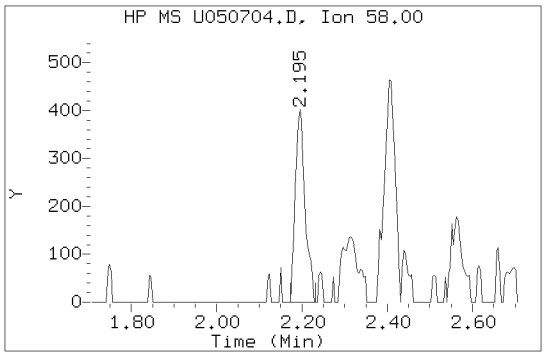
AFTER
MASS
43
AREA
349
HEIGHT
231
28-May-2024
10:32
firat



BEFORE
MASS
58
AREA
659
HEIGHT
403
07-May-2024
16:19
firat
tastan



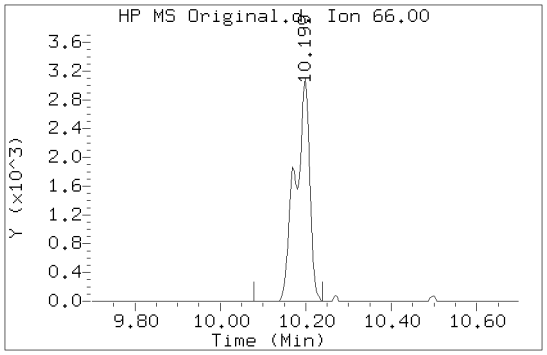
AFTER
MASS
58
AREA
659
HEIGHT
403
28-May-2024
10:32
firat



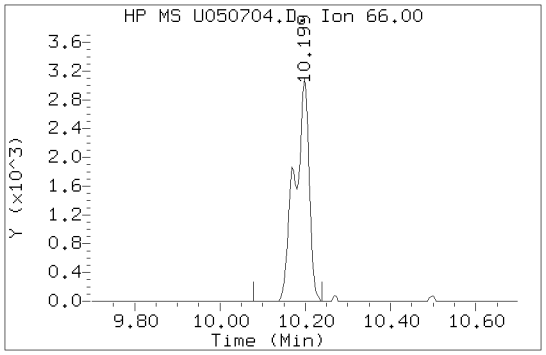
Dicyclopentadiene (77-73-6)

Reason Code:

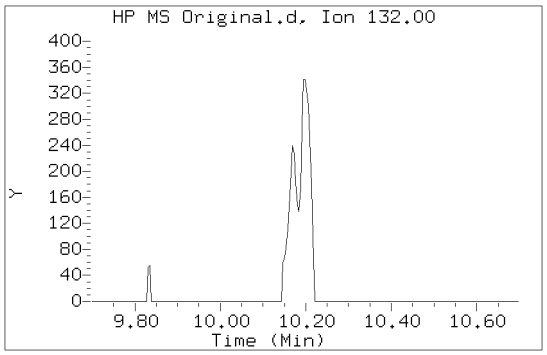
BEFORE
MASS
66
AREA
7350
HEIGHT
3091
07-May-2024
16:19
firat
tastan



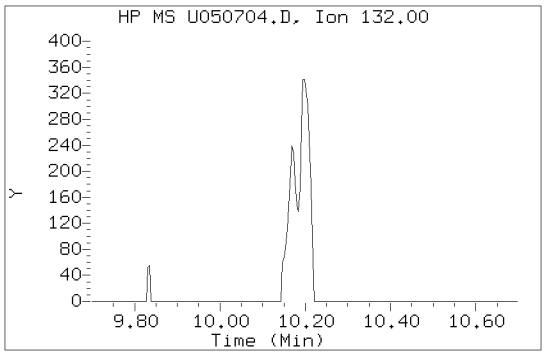
AFTER
MASS
66
AREA
7350
HEIGHT
3091
28-May-2024
10:32
firat



BEFORE
MASS
132
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
132
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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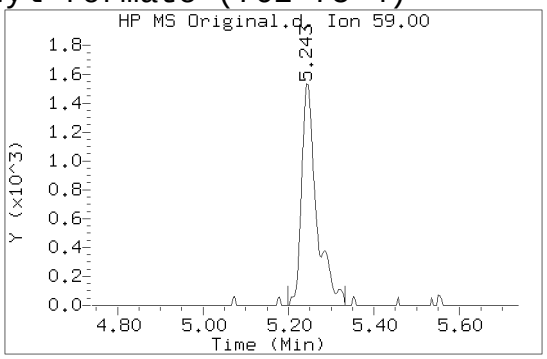
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

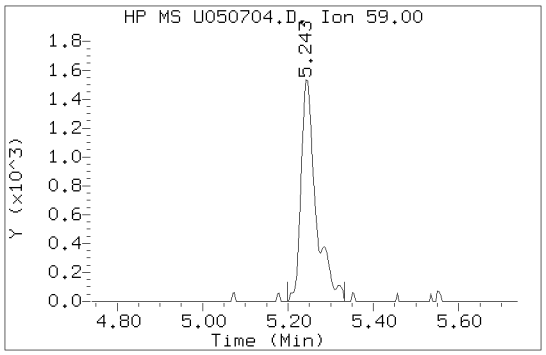
BEFORE

MASS
59
AREA
3827
HEIGHT
1535
07-May-2024
16:19
firat
tastan



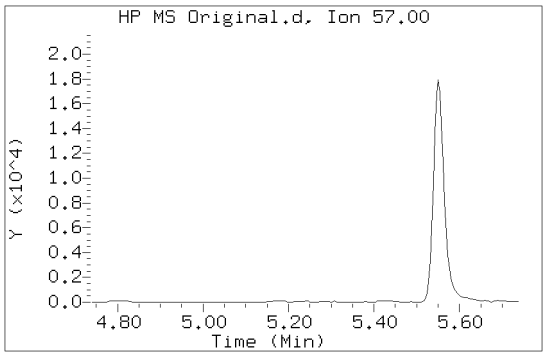
AFTER

MASS
59
AREA
3827
HEIGHT
1535
28-May-2024
10:32
firat



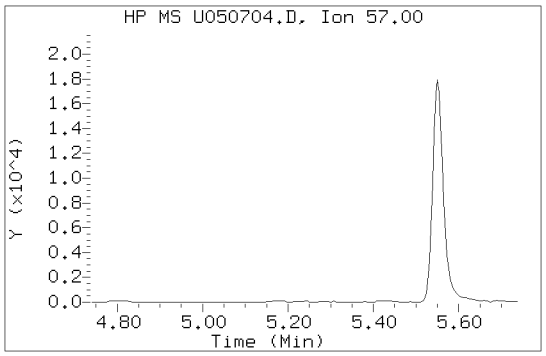
BEFORE

MASS
57
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



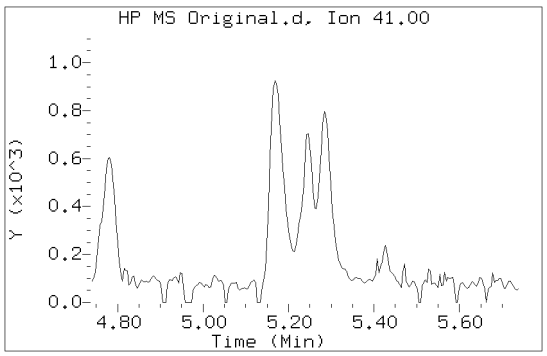
AFTER

MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



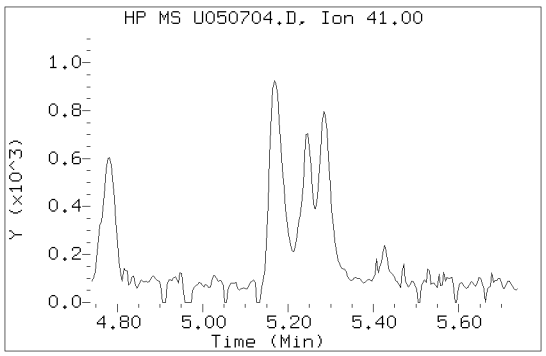
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

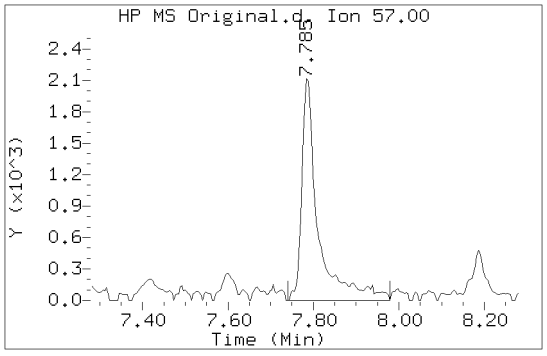


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

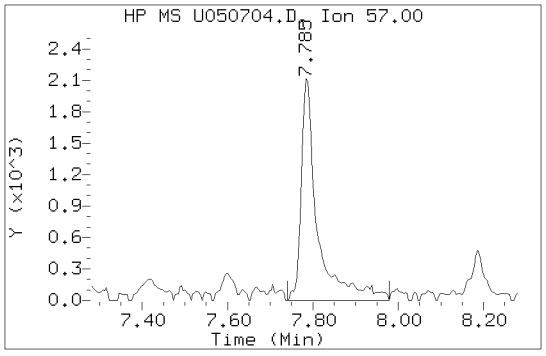
BEFORE

MASS
57
AREA
5673
HEIGHT
2115
07-May-2024
16:19
firat
tastan



AFTER

MASS
57
AREA
5673
HEIGHT
2115
28-May-2024
10:32
firat



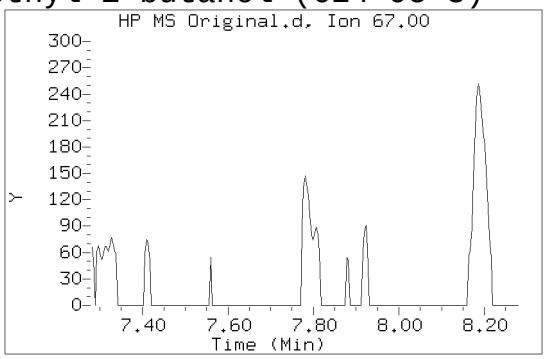
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

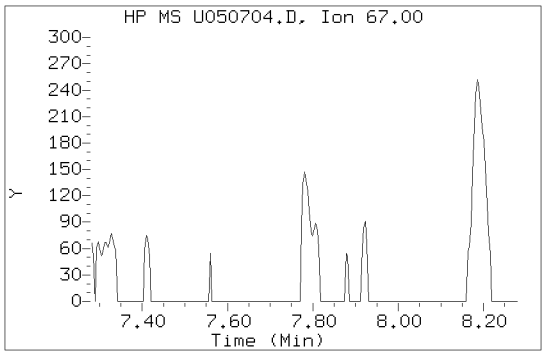
BEFORE

MASS
67
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



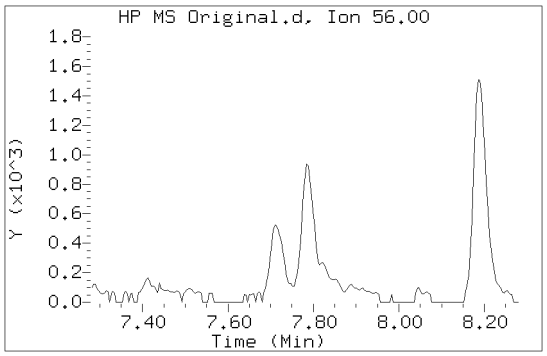
AFTER

MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



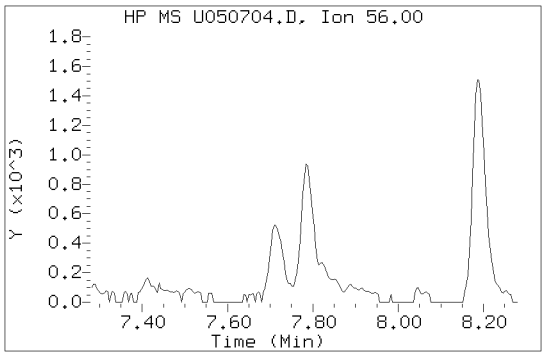
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

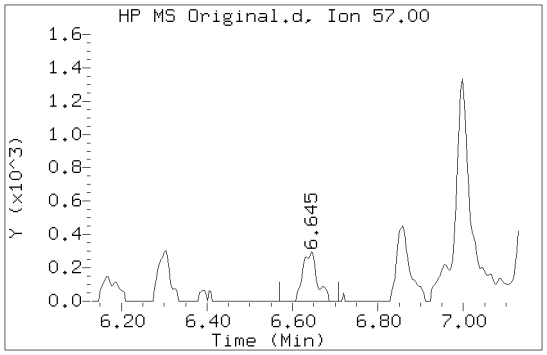


Epichlorohydrin (106-89-8)

Reason Code:

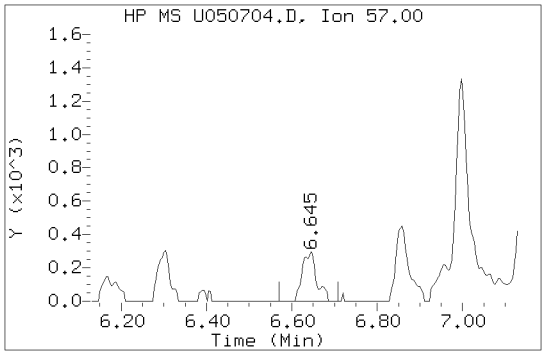
BEFORE

MASS
57
AREA
696
HEIGHT
296
07-May-2024
16:19
firat
tastan



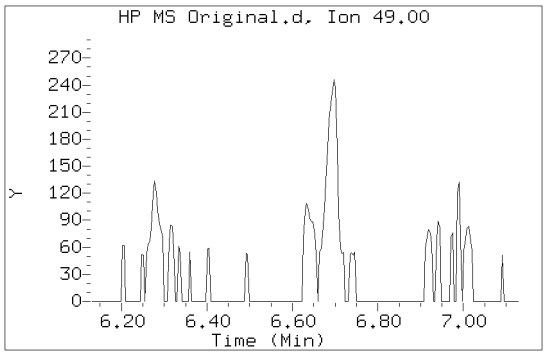
AFTER

MASS
57
AREA
696
HEIGHT
296
28-May-2024
10:32
firat



BEFORE

MASS
49
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
49
AREA
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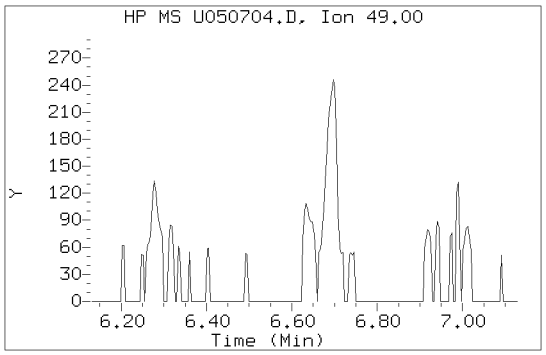
HEIGHT
0
28-May-2024
10:32
firat



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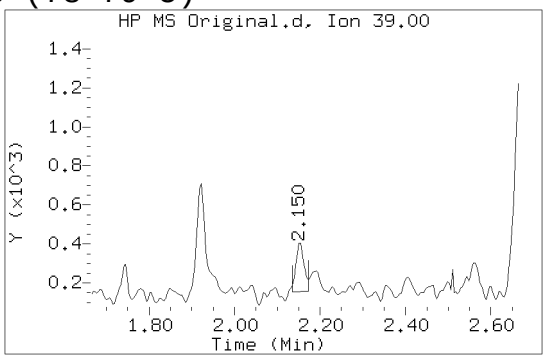
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

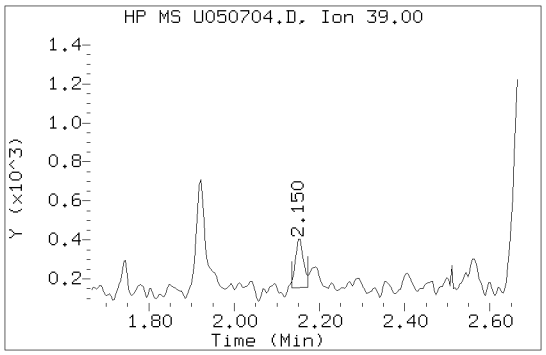
Isoprene (78-79-5)

Reason Code:

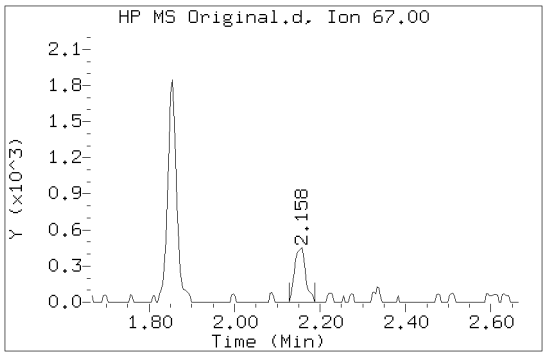
BEFORE
MASS
39
AREA
346
HEIGHT
247
07-May-2024
16:19
firat
tastan



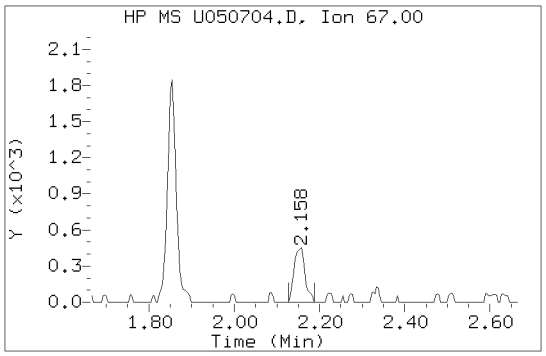
AFTER
MASS
39
AREA
346
HEIGHT
247
28-May-2024
10:32
firat



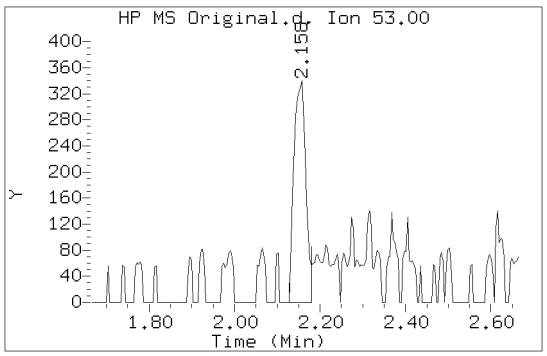
BEFORE
MASS
67
AREA
826
HEIGHT
454
07-May-2024
16:19
firat
tastan



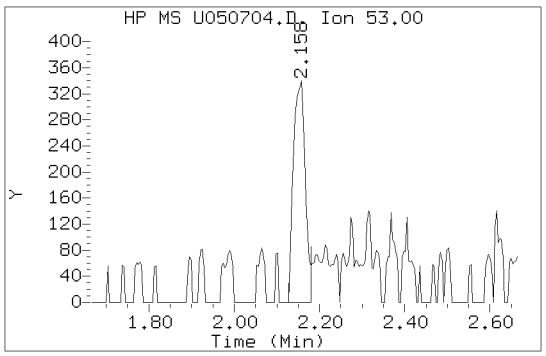
AFTER
MASS
67
AREA
826
HEIGHT
454
28-May-2024
10:32
firat



BEFORE
MASS
53
AREA
671
HEIGHT
340
07-May-2024
16:19
firat
tastan



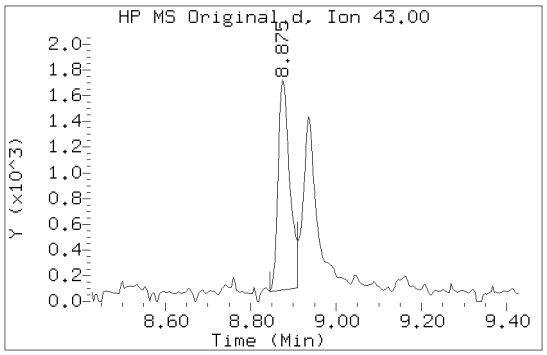
AFTER
MASS
53
AREA
671
HEIGHT
340
28-May-2024
10:32
firat



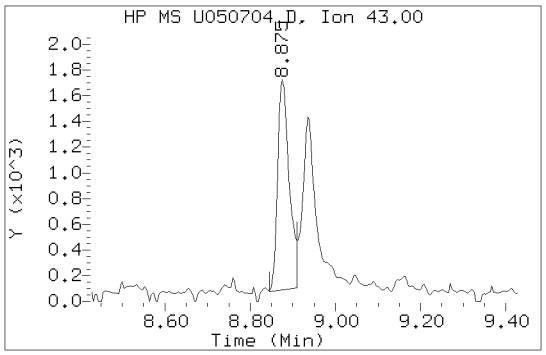
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
3108
HEIGHT
1635
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
3108
HEIGHT
1635
28-May-2024
10:32
firat



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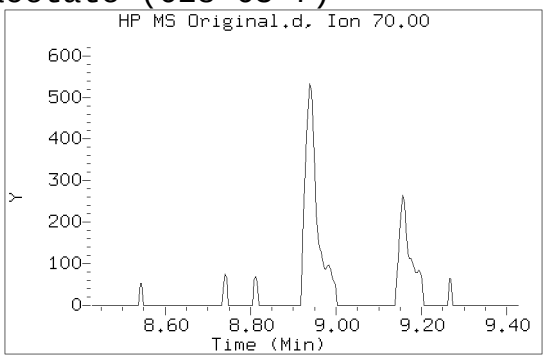
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

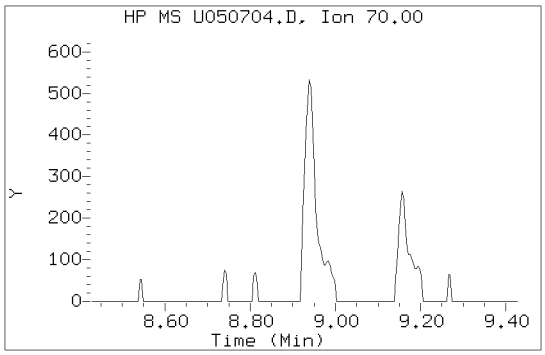
n-Amyl acetate (628-63-7)

Reason Code:

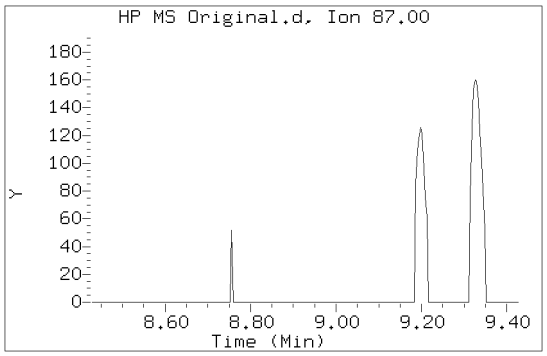
BEFORE
MASS
70
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



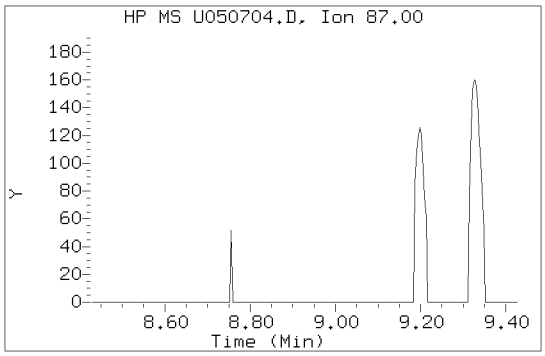
AFTER
MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
87
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



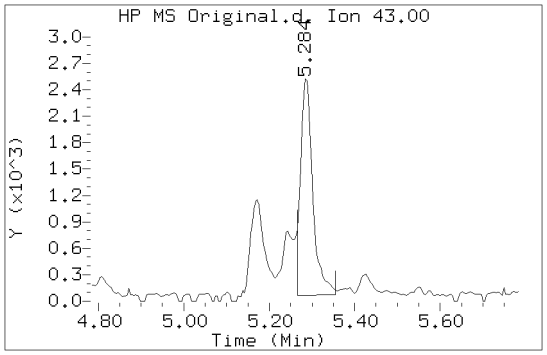
AFTER
MASS
87
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



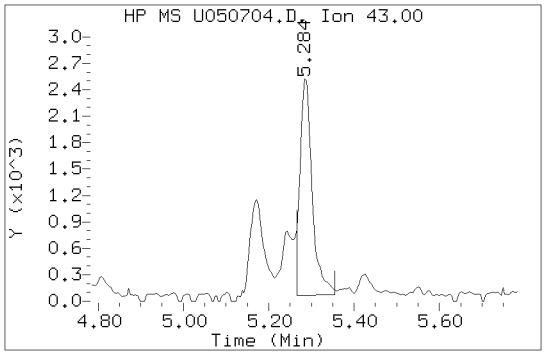
Isopropyl acetate (108-21-4)

Reason Code:

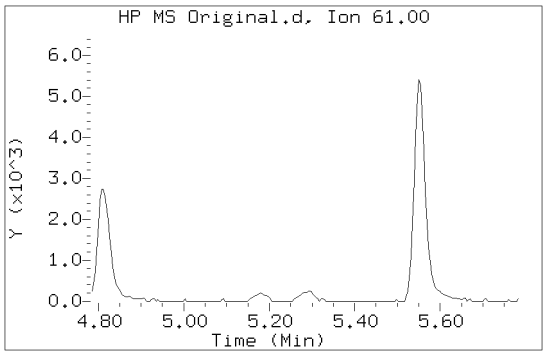
BEFORE
MASS
43
AREA
5024
HEIGHT
2453
07-May-2024
16:19
firat
tastan



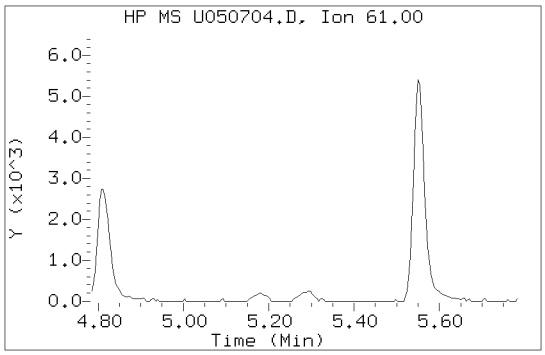
AFTER
MASS
43
AREA
5024
HEIGHT
2453
28-May-2024
10:32
firat



BEFORE
MASS
61
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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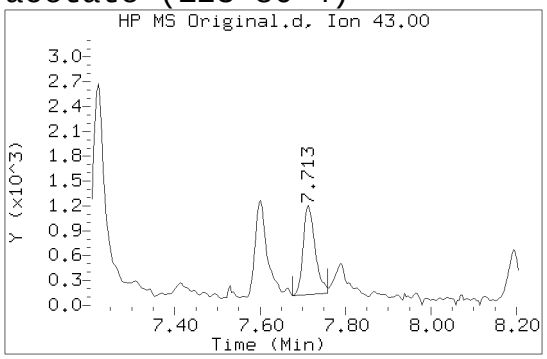
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

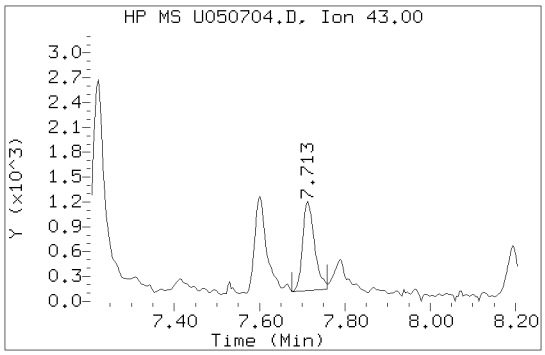
n-Butyl acetate (123-86-4)

Reason Code:

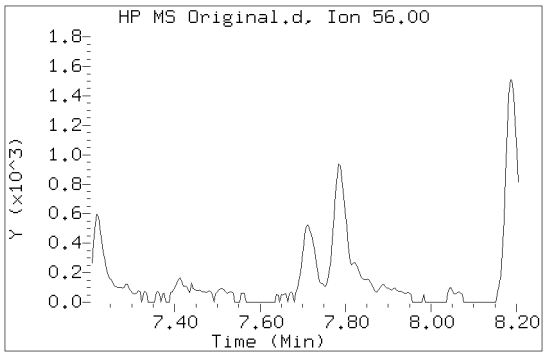
BEFORE
MASS
43
AREA
2135
HEIGHT
1075
07-May-2024
16:19
firat
tastan



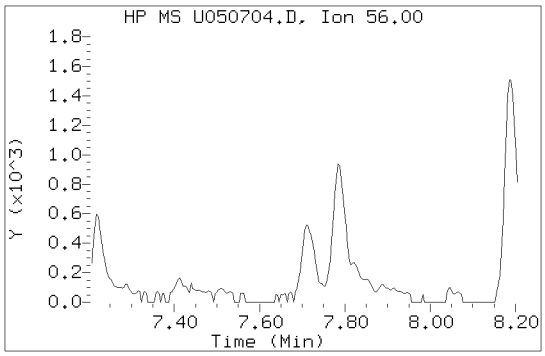
AFTER
MASS
43
AREA
2135
HEIGHT
1075
28-May-2024
10:32
firat



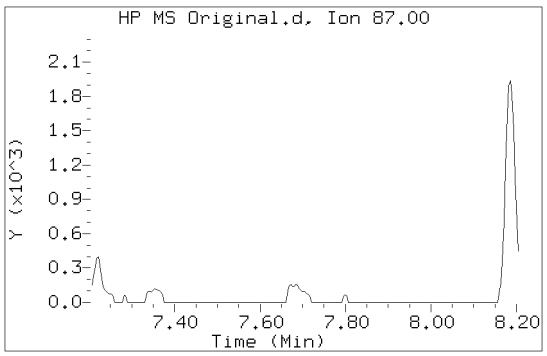
BEFORE
MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



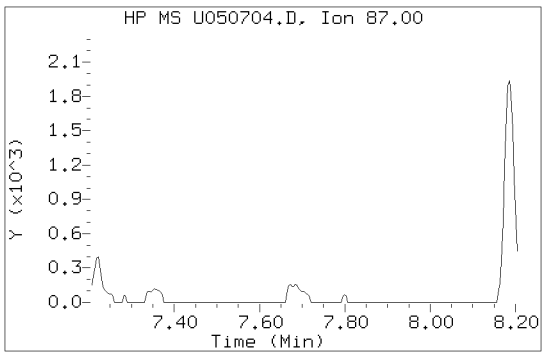
AFTER
MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
87
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



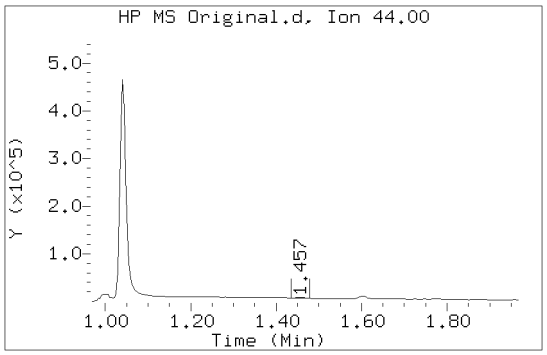
AFTER
MASS
87
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



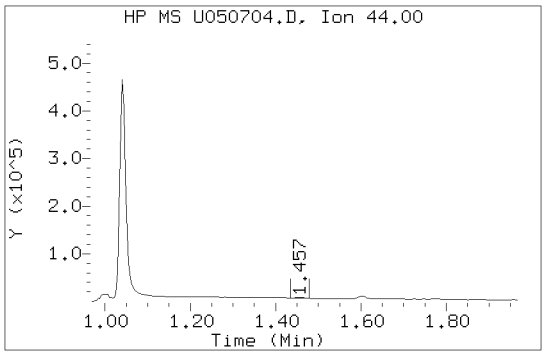
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
2602
HEIGHT
2122
07-May-2024
16:19
firat
tastan



AFTER
MASS
44
AREA
2602
HEIGHT
2122
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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43
AREA
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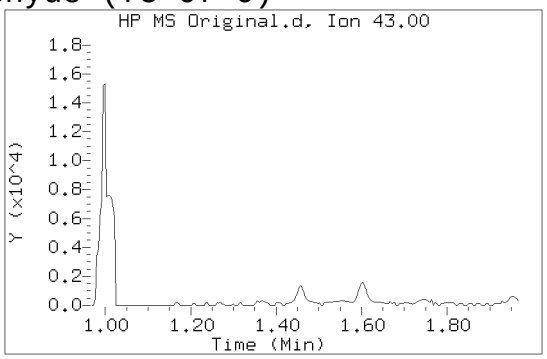
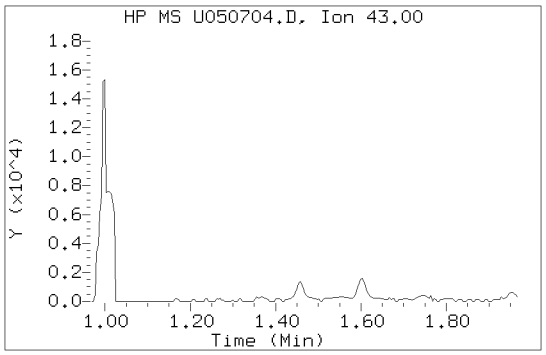
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
42
AREA
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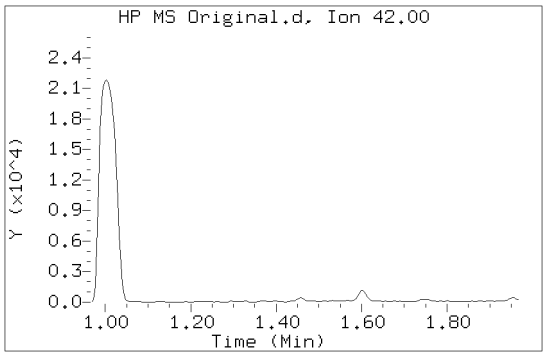
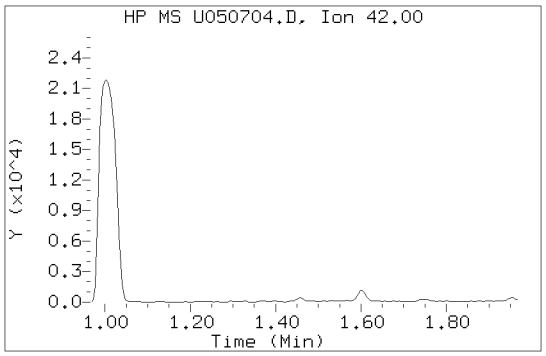
HEIGHT
0
07-May-2024
16:19
firat
tastan



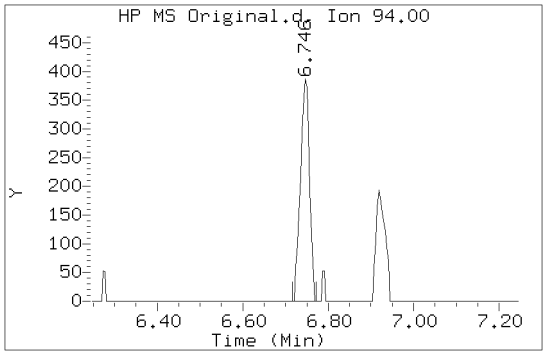
AFTER
MASS
42
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



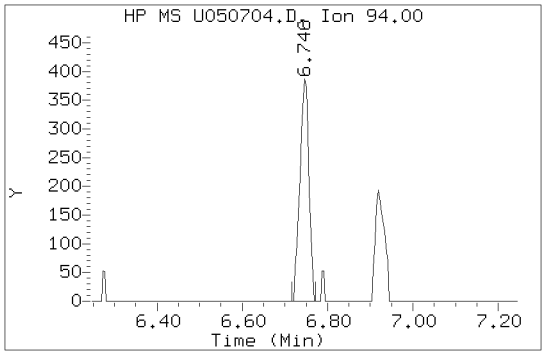
Dimethyl Disulfide (624-92-0)

Reason Code:

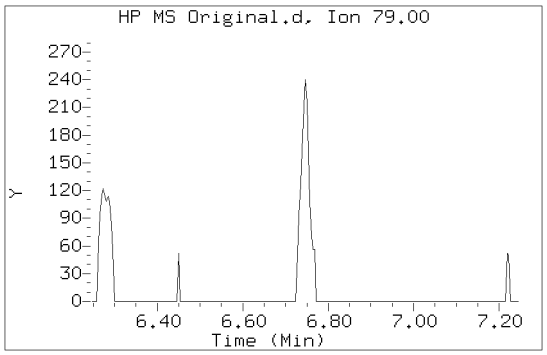
BEFORE
MASS
94
AREA
584
HEIGHT
387
07-May-2024
16:19
firat
tastan



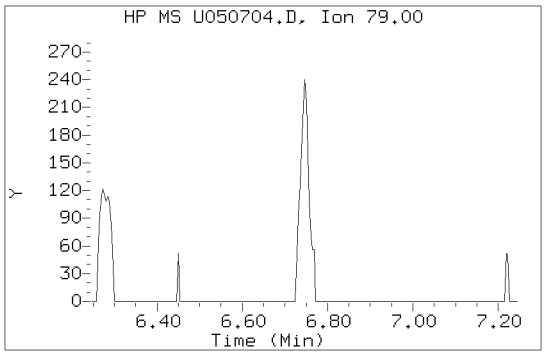
AFTER
MASS
94
AREA
584
HEIGHT
387
28-May-2024
10:32
firat



BEFORE
MASS
79
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
79
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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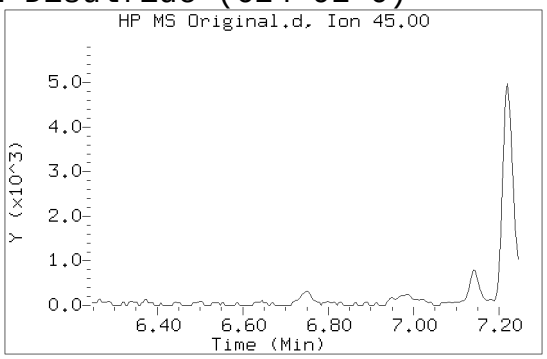
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

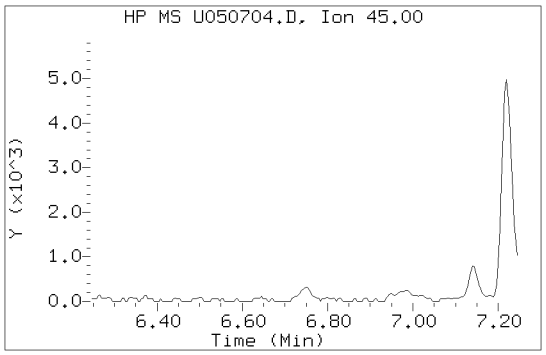
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
45
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



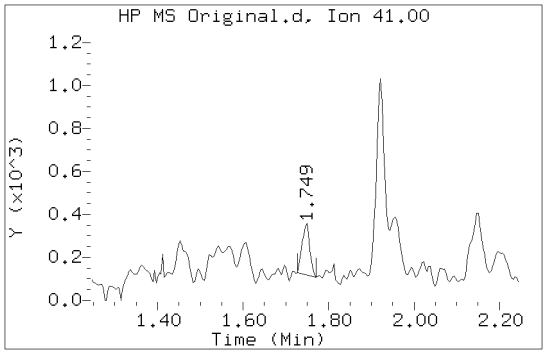
AFTER
MASS
45
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



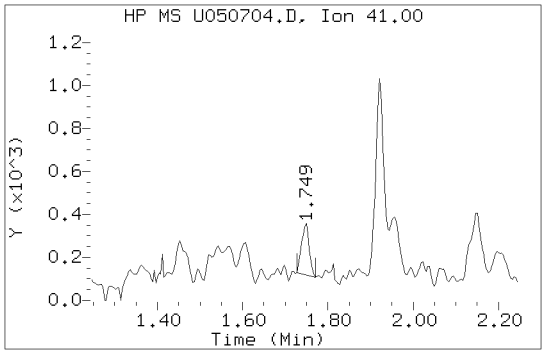
Isobutylene (115-11-7)

Reason Code:

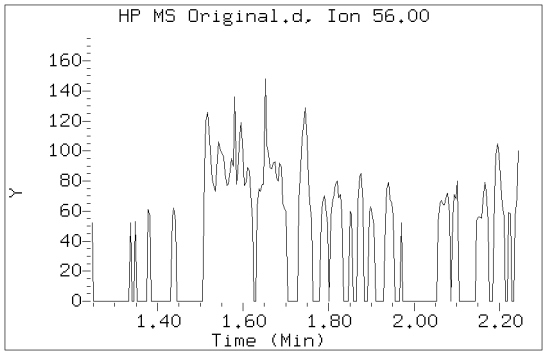
BEFORE
MASS
41
AREA
304
HEIGHT
239
07-May-2024
16:19
firat
tastan



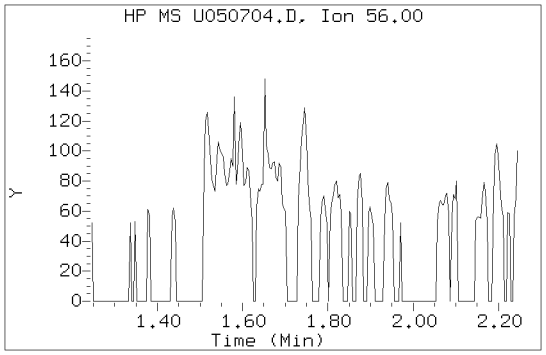
AFTER
MASS
41
AREA
304
HEIGHT
239
28-May-2024
10:32
firat



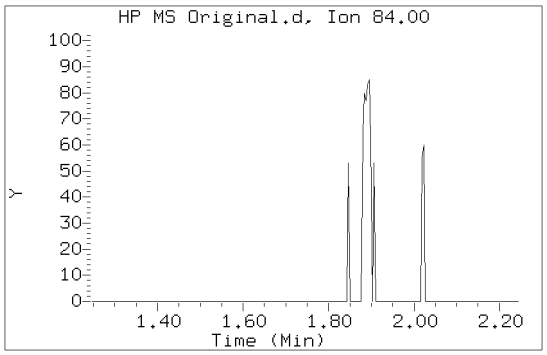
BEFORE
MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
84
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



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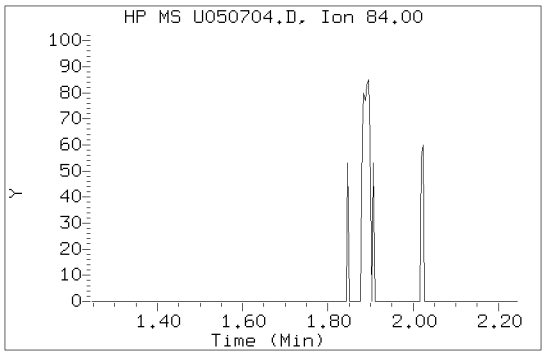


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 07-MAY-2024 13:09
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:48 Cal File: U050704.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: 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	4.819	4.819	(1.000)	221784	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	1935	2.00000	1.64(M)
3 Chloromethane	50	1.306	1.306	(0.271)	4074	2.00000	1.40
4 Propionitrile	54	4.350	4.350	(0.903)	6563	20.0000	9.01(a)
5 Vinyl Chloride	62	1.381	1.381	(0.287)	3212	2.00000	1.71(M)
6 Bromomethane	94	1.625	1.625	(0.337)	3123	2.00000	2.71
7 Chloroethane	64	1.707	1.707	(0.354)	2573	2.00000	1.53
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	3305	2.00000	1.48
9 Acrolein	56	2.270	2.270	(0.471)	628	4.00000	1.82(aM)
10 Acetone	43	2.420	2.420	(0.502)	3376	4.00000	1.43
11 1,1-Dichloroethene	96	2.341	2.341	(0.486)	2128	2.00000	1.49
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	8791	40.0000	37.57(a)
13 Acetonitrile	39	2.678	2.678	(0.556)	4598	20.0000	20.90(a)
14 Allyl Chloride	41	2.678	2.678	(0.556)	11832	2.00000	2.11(a)
15 Iodomethane	142	2.476	2.476	(0.514)	3027	4.00000	3.54(T)
16 Acrylonitrile	53	3.072	3.072	(0.638)	3775	4.00000	1.05
17 Methylene Chloride	84	2.802	2.802	(0.582)	6966	2.00000	2.03
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	11516	2.00000	2.22
19 Carbon Disulfide	76	2.525	2.525	(0.524)	11571	4.00000	3.31
20 trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	2703	2.00000	1.71

21 Vinyl Acetate	43	4.354	4.354 (0.904)	3427	4.00000	3.59(M)
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	5335	2.00000	1.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	2.165	2.165	(0.449)	993	2.00000	1.06(aM)
24	2-Butanone	43	4.279	4.279	(0.888)	2534	4.00000	3.61
25	Methacrylonitrile	41	4.500	4.500	(0.934)	2309	2.00000	1.91(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	2491	2.00000	1.96
27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	3011	2.00000	1.91
28	Chloroform	83	4.579	4.579	(0.950)	5013	2.00000	1.96
29	Bromochloromethane	128	4.470	4.470	(0.928)	1593	2.00000	1.46
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.986)	4422	2.00000	0.73
31	1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	2875	2.00000	1.57
32	1,1-Dichloropropene	75	4.924	4.924	(0.886)	3286	2.00000	1.72
33	1,2-Dichloroethane	62	5.182	5.182	(0.933)	4182	2.00000	1.94
34	Carbon Tetrachloride	117	4.909	4.909	(0.883)	2026	2.00000	1.63(M)
$ 35	1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	5718	2.00000	(a)
* 36	1,4-Difluorobenzene	114	5.557	5.557	(1.000)	329943	50.0000	
37	Benzene	78	5.141	5.141	(0.925)	11066	2.00000	1.87
38	Trichloroethene	130	5.794	5.794	(1.042)	2748	2.00000	1.80(a)
39	Bromodichloromethane	83	6.281	6.281	(1.130)	3008	2.00000	1.79(aM)
40	Methyl Methacrylate	41	5.839	5.839	(1.212)	1287	2.00000	1.66(a)
41	2-Chloroethylvinyl ether	63	6.622	6.622	(1.192)	11	4.00000	1.70(aM)
42	1,2-Dichloropropane	63	6.015	6.015	(1.082)	3218	2.00000	2.22(aM)
43	2-Nitropropane	43	6.513	6.513	(1.352)	1049	2.00000	2.41(aM)
44	Dibromomethane	93	6.120	6.120	(1.101)	1778	2.00000	1.83(a)
45	4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	5425	4.00000	3.25(a)
46	cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	2524	2.00000	2.26(a)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	294823	50.0000	
$ 48	Toluene-d8	98	6.926	6.926	(0.846)	15047	2.00000	0.86(a)
49	Ethyl Methacrylate	69	7.222	7.222	(1.299)	4412	2.00000	1.82(a)
50	Toluene	91	6.986	6.986	(0.853)	10606	2.00000	1.82(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	2073	2.00000	2.56(a)
52	2-Hexanone	43	7.600	7.600	(0.929)	3600	4.00000	6.41
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	2202	2.00000	1.82(a)
54	1,3-Dichloropropane	76	7.503	7.503	(0.917)	4685	2.00000	1.84(a)
55	Dibromochloromethane	129	7.694	7.694	(0.940)	1814	2.00000	3.65(a)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	1887	2.00000	1.55(a)
57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	2317	2.00000	1.70(a)
58	1-Chlorohexane	55	8.189	8.189	(1.473)	4890	2.00000	2.12(a)
59	Chlorobenzene	112	8.211	8.211	(1.003)	7431	2.00000	1.83(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	2003	2.00000	3.37(a)
61	Ethylbenzene	106	8.309	8.309	(1.015)	3419	2.00000	1.78(aM)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	7803	4.00000	3.37(a)
63	o-Xylene	106	8.748	8.748	(1.069)	4049	2.00000	1.75(aM)
64	Styrene	104	8.766	8.766	(1.071)	6533	2.00000	1.67(a)
66	Bromoform	173	8.924	8.924	(1.090)	1007	2.00000	2.66(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	9546	2.00000	1.72(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	3743	2.00000	2.38(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5812	2.00000	0.86(a)
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	147631	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	3654	2.00000	1.94(aM)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	859	2.00000	2.61(a)
73	n-Propylbenzene	91	9.415	9.415	(0.926)	9976	2.00000	1.67(a)
74	Bromobenzene	156	9.321	9.321	(0.916)	2980	2.00000	1.85(a)
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	6964	2.00000	1.62(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	7490	2.00000	1.86(a)
77	4-Chlorotoluene	91	9.580	9.580 (0.942)	7859	2.00000	1.73(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D Page 3
Report Date: 28-May-2024 10:33

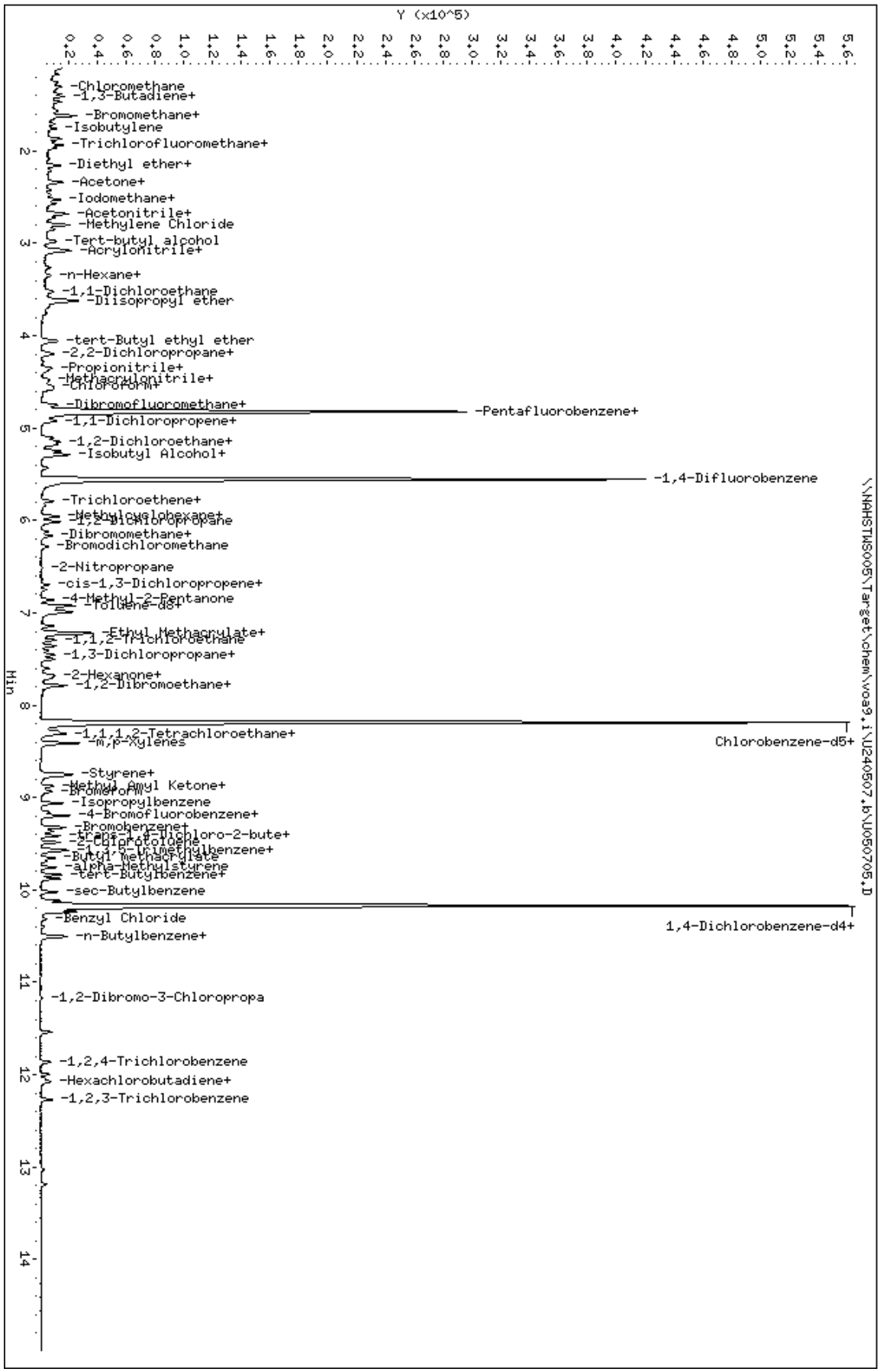
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	5758	2.00000	1.59(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	6668	2.00000	1.58(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	7513	2.00000	1.57(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	6149	2.00000	1.48(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	5226	2.00000	1.86(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	5993	2.00000	2.50(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	2290	2.00000	4.23(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	5352	2.00000	2.03(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	5340	2.00000	2.29(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.098)	256	2.00000	2.98(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	2492	2.00000	2.20(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	1142	2.00000	1.59(a)
92	Naphthalene	128	12.073	12.073	(1.187)	5486	2.00000	3.25(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	2706	2.00000	1.62(a)
146	Methyl acetate	43	2.723	2.723	(0.565)	5867	2.00000	0.61(a)
138	Freon TF	101	2.345	2.345	(0.487)	1755	2.00000	1.48(a)
141	Cyclohexane	56	4.819	4.819	(1.000)	6934	2.00000	2.97(aM)
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	1900	4.00000	2.22(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.071)	7288	2.00000	1.78(a)
135	1,4-Dioxane	88	6.180	6.180	(1.282)	1012	40.0000	28.62
132	n-Butanol	56	5.835	5.835	(1.211)	2006	40.0000	33.71(a)
136	n-Hexane	57	3.353	3.353	(0.696)	2449	2.00000	1.59(a)
139	Diethyl ether	59	2.150	2.150	(0.446)	3597	2.00000	2.31(a)
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	9237	40.0000	30.14(M)
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	6724	40.0000	19.12(T)
152	Amyl alcohol	42	7.405	7.405	(0.905)	2053	40.0000	38.47
156	Diisopropyl ether	45	3.627	3.627	(0.753)	14381	2.00000	2.29(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	5241	2.00000	2.91(a)
187	n-Amyl acetate	43	8.875	8.875	(1.084)	5867	2.00000	1.93(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	16464	2.00000	2.18(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	11581	2.00000	2.11(a)
167	Ethanol	45	2.086	2.086	(0.433)	1541	40.0000	22.30(M)
172	tert-Butyl formate	59	5.246	5.246	(1.089)	6077	4.00000	3.83(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	8149	40.0000	55.04(M)
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	9623	2.00000	1.92(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	11176	2.00000	2.19(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	5904	40.0000	38.79
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.299)	16169	40.0000	61.15
140	1,3-Butadiene	54	1.411	1.411	(0.293)	2547	2.00000	1.77(a)
158	Dichlorofluoromethane	67	1.865	1.865	(0.387)	7156	2.00000	2.27(M)
182	Epichlorohydrin	57	6.637	6.637	(1.194)	1163	8.00000	8.25(M)
M 94	1,2-Dichloroethylene (total)	96				5714	4.00000	(a)
130	Ethyl Acetate	43	4.354	4.354	(0.904)	3554	2.00000	1.87(aM)
131	Methyl Acrylate	55	4.384	4.384	(0.910)	5720	2.00000	1.75(a)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	3570	2.00000	4.08(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	3320	40.0000	45.50(a)
185	Isoprene	39	2.165	2.165	(0.449)	612	2.00000	1.71(aM)
188	Isopropyl acetate	43	5.291	5.291	(0.952)	9028	2.00000	1.93(a)
150	Allyl alcohol	57	3.353	3.353	(0.696)	2449	40.0000	31.83
194	Acetaldehyde	44	1.468	1.468	(0.305)	3690	8.00000	(aM)
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	5882	2.00000	3.73(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	1323	2.00000	3.18(a)

202 Isobutylene	41	1.756	1.756 (0.364)	1563	2.00000	1.42(aM)
133 Ethyl Acrylate	55	5.951	5.951 (1.235)	7288	2.00000	1.80(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.651	9.651	(0.949)	3813	2.00000	1.99(a)
159 Propylene oxide	43	2.206	2.206	(0.458)	695	4.00000	4.66(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2400	2.00000	3.19(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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Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

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07-May-2024
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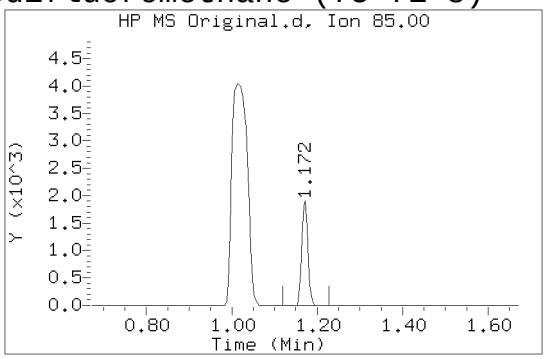

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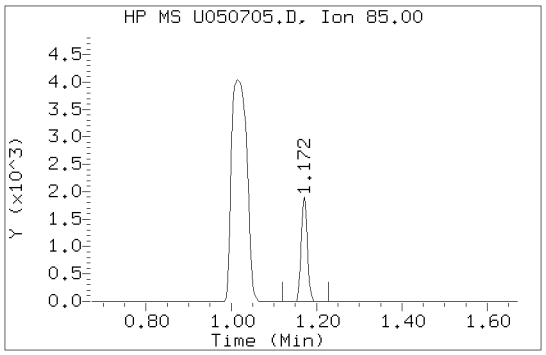

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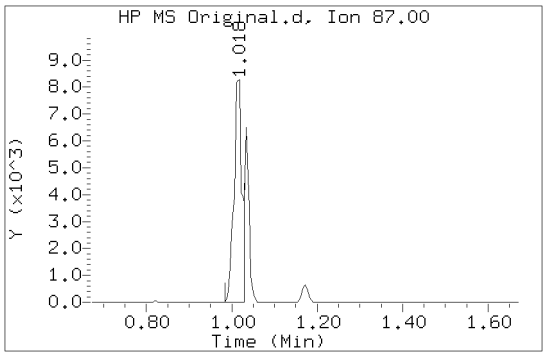

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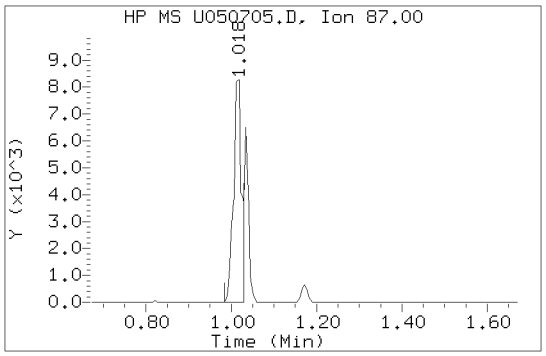

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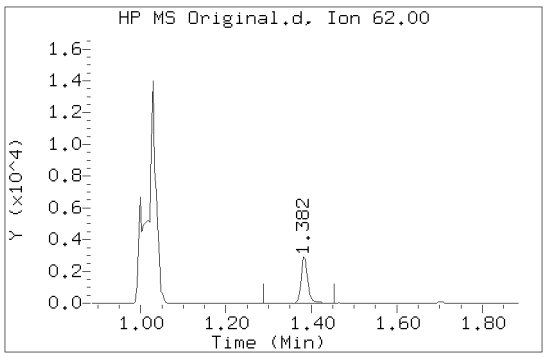

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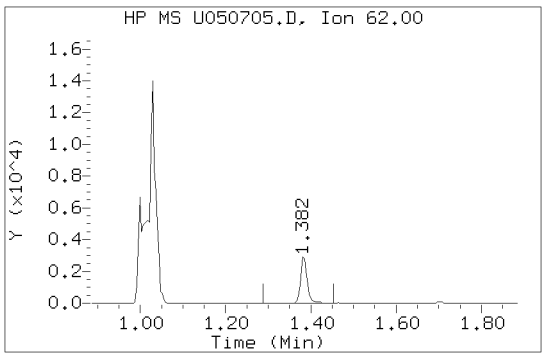

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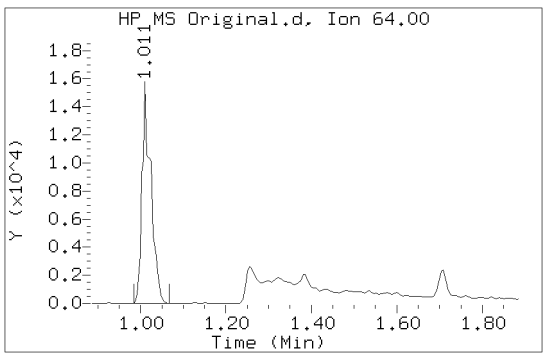

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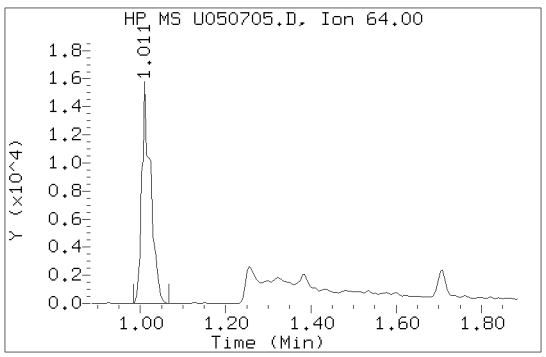

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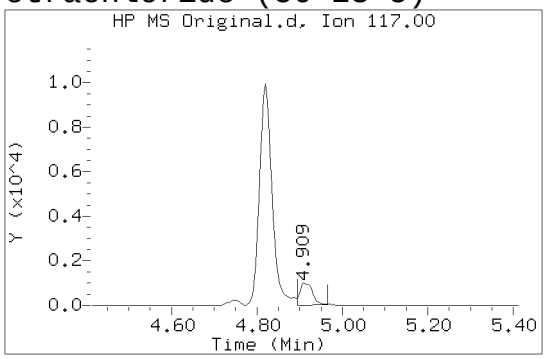
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

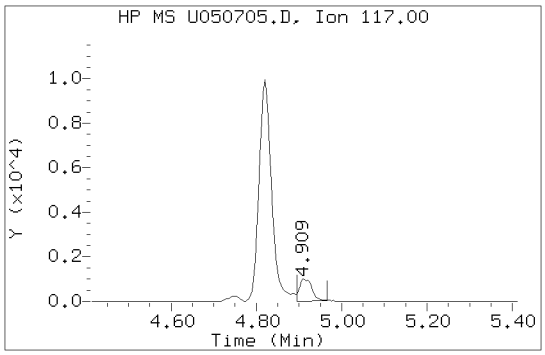
Carbon Tetrachloride (56-23-5)

Reason Code:

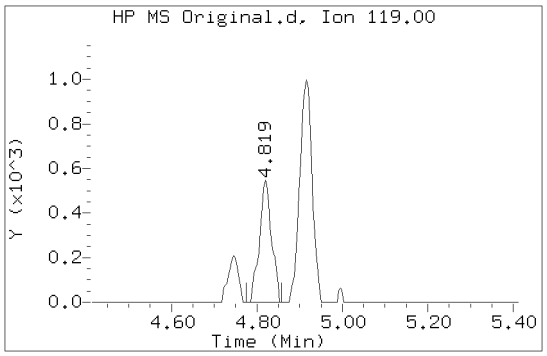
BEFORE
MASS
117
AREA
2026
HEIGHT
993
07-May-2024
16:19
firat
tastan



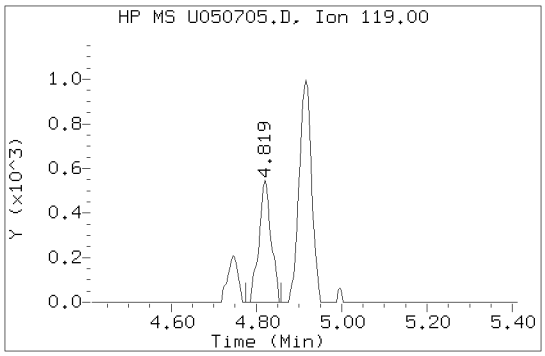
AFTER
MASS
117
AREA
2026
HEIGHT
993
28-May-2024
10:32
firat



BEFORE
MASS
119
AREA
1077
HEIGHT
549
07-May-2024
16:19
firat
tastan



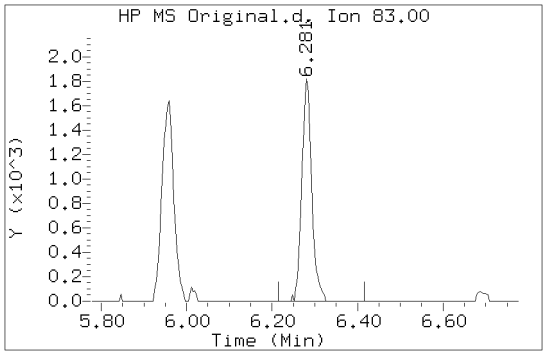
AFTER
MASS
119
AREA
1077
HEIGHT
549
28-May-2024
10:32
firat



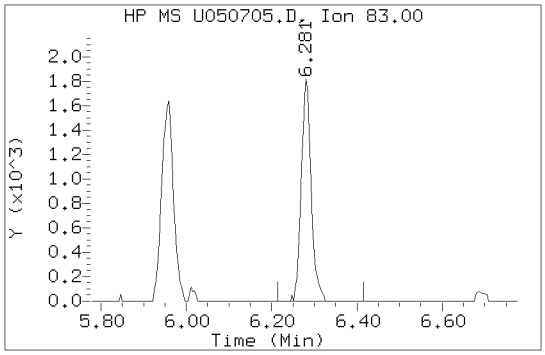
Bromodichloromethane (75-27-4)

Reason Code:

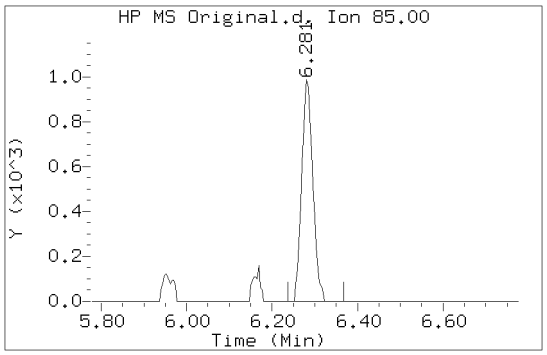
BEFORE
MASS
83
AREA
3008
HEIGHT
1818
07-May-2024
16:19
firat
tastan



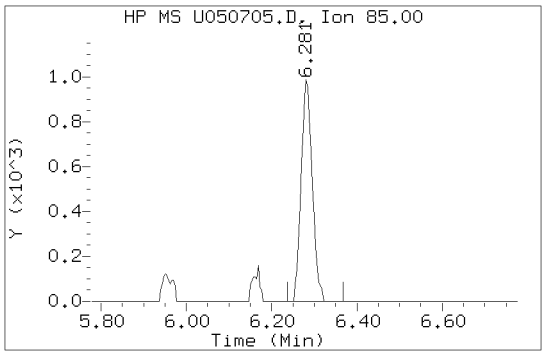
AFTER
MASS
83
AREA
3008
HEIGHT
1818
28-May-2024
10:32
firat



BEFORE
MASS
85
AREA
1828
HEIGHT
988
07-May-2024
16:19
firat
tastan



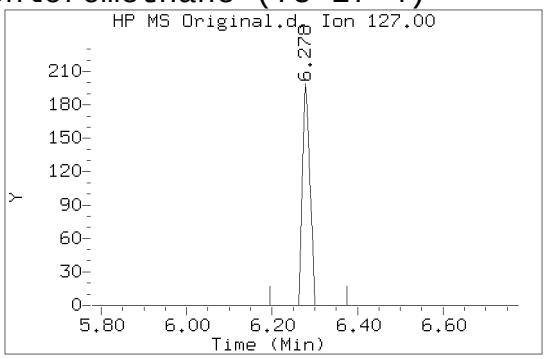
AFTER
MASS
85
AREA
1828
HEIGHT
988
28-May-2024
10:32
firat



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

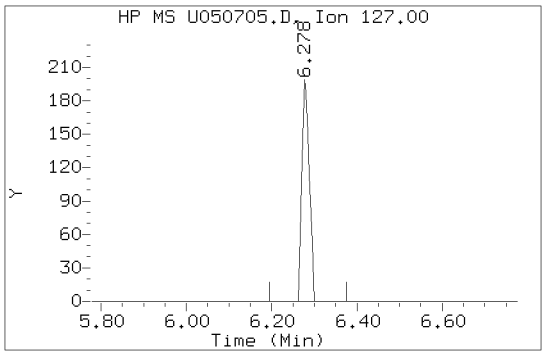
Bromodichloromethane (75-27-4)

BEFORE
MASS
127
AREA
250
HEIGHT
199
07-May-2024
16:19
firat
tastan



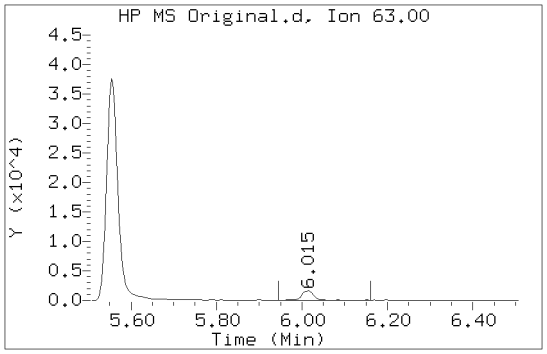
Reason Code:

AFTER
MASS
127
AREA
250
HEIGHT
199
28-May-2024
10:32
firat



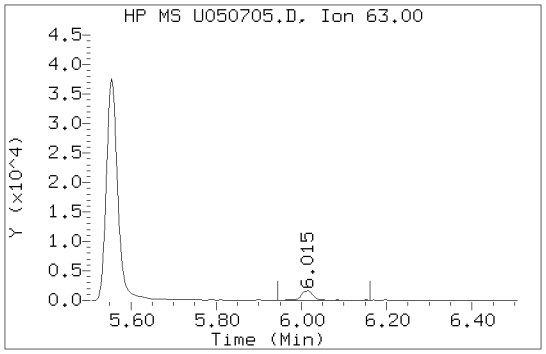
1,2-Dichloropropane (78-87-5)

BEFORE
MASS
63
AREA
3218
HEIGHT
1596
07-May-2024
16:19
firat
tastan

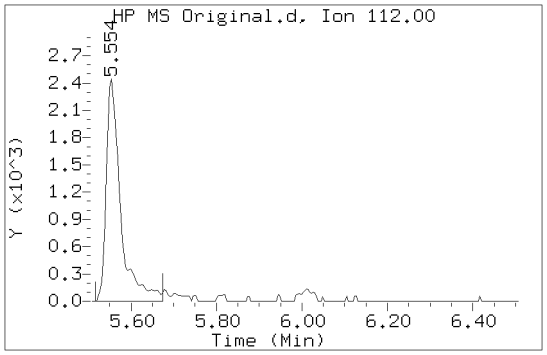


Reason Code:

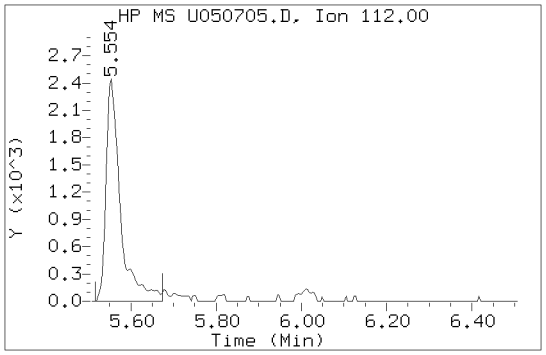
AFTER
MASS
63
AREA
3218
HEIGHT
1596
28-May-2024
10:32
firat



BEFORE
MASS
112
AREA
5743
HEIGHT
2445
07-May-2024
16:19
firat
tastan

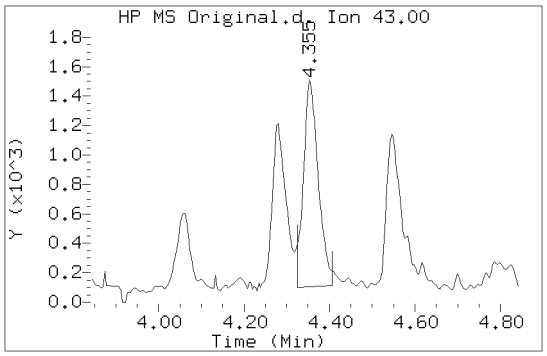


AFTER
MASS
112
AREA
5743
HEIGHT
2445
28-May-2024
10:32
firat



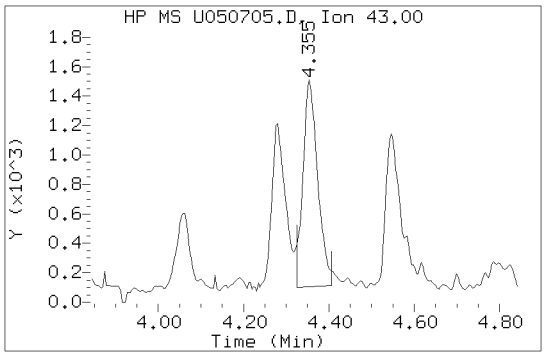
Vinyl Acetate (108-05-4)

BEFORE
MASS
43
AREA
3427
HEIGHT
1404
07-May-2024
16:19
firat
tastan



Reason Code:

AFTER
MASS
43
AREA
3427
HEIGHT
1404
28-May-2024
10:32
firat

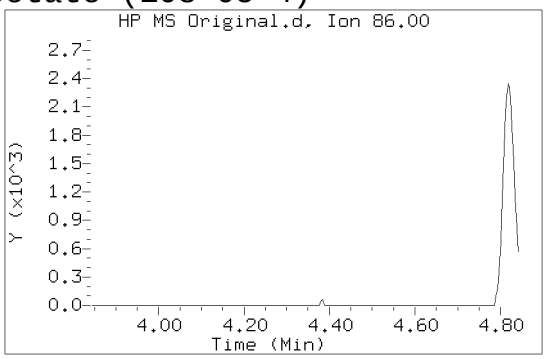


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

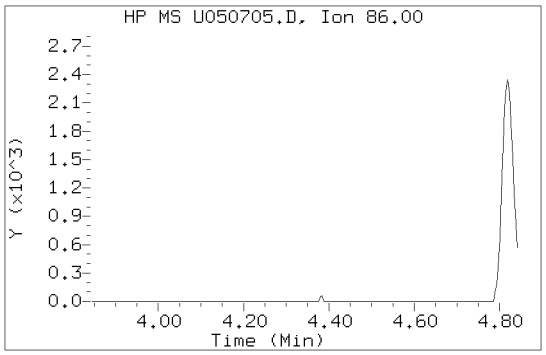
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



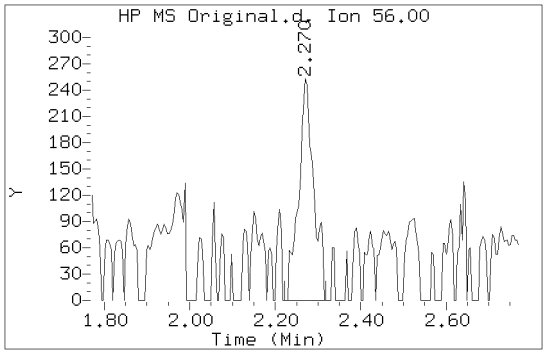
AFTER
MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



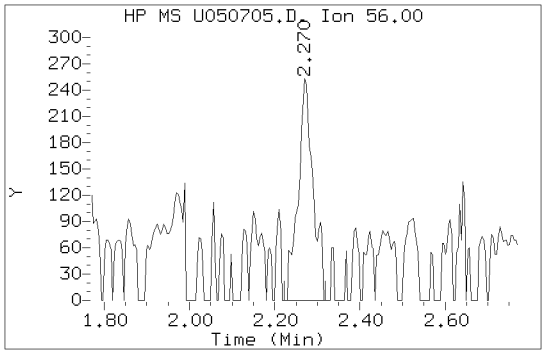
Acrolein (107-02-8)

Reason Code:

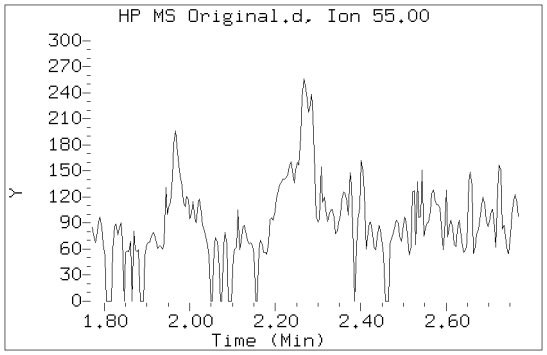
BEFORE
MASS
56
AREA
628
HEIGHT
253
07-May-2024
16:19
firat
tastan



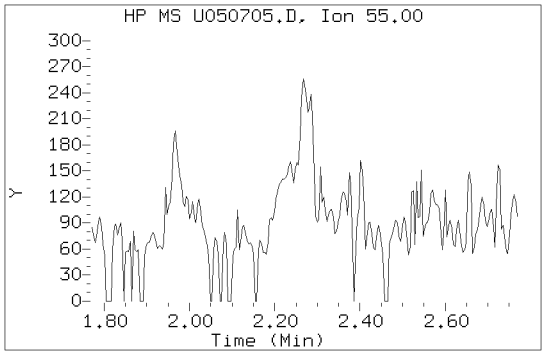
AFTER
MASS
56
AREA
628
HEIGHT
253
28-May-2024
10:32
firat



BEFORE
MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



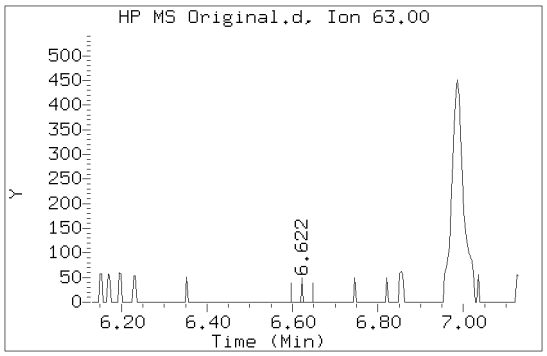
AFTER
MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



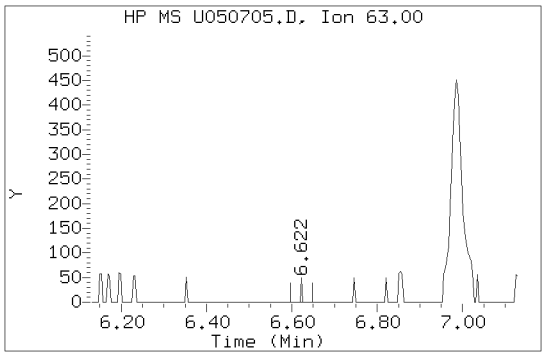
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
11
HEIGHT
50
07-May-2024
16:19
firat
tastan



AFTER
MASS
63
AREA
11
HEIGHT
50
28-May-2024
10:32
firat

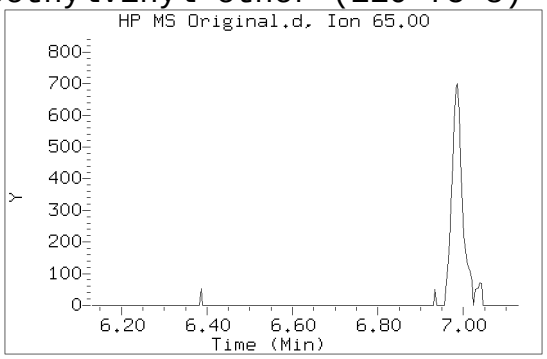


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

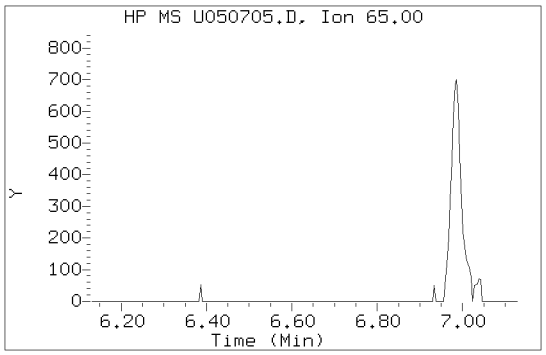
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

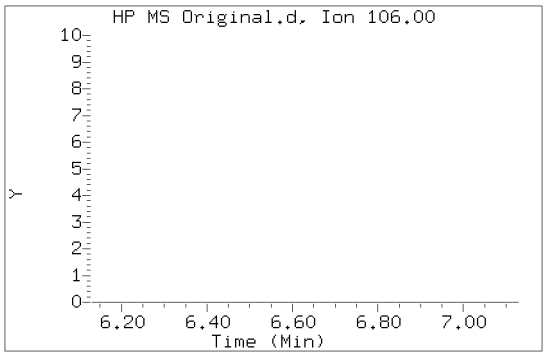
BEFORE
MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



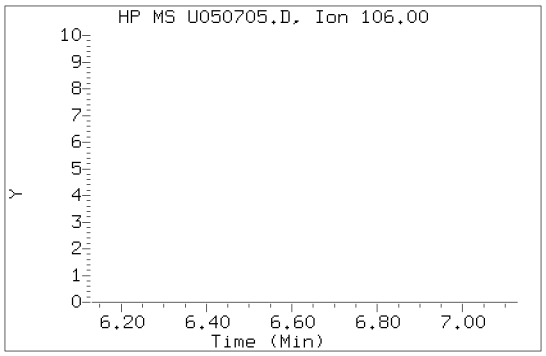
AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
106
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



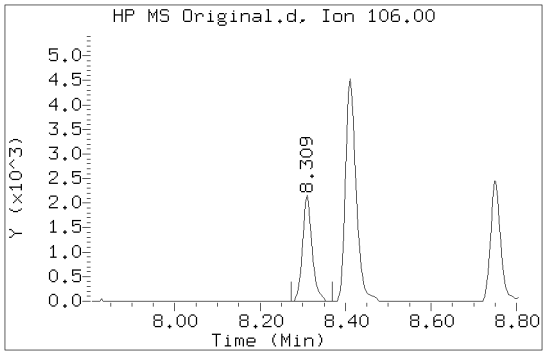
AFTER
MASS
106
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



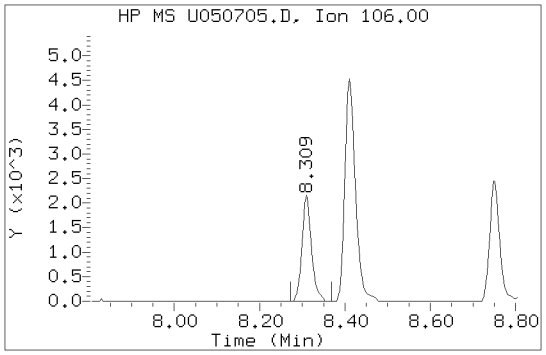
Ethylbenzene (100-41-4)

Reason Code:

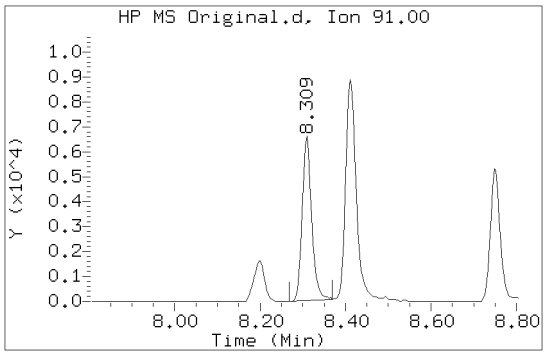
BEFORE
MASS
106
AREA
3419
HEIGHT
2166
07-May-2024
16:19
firat
tastan



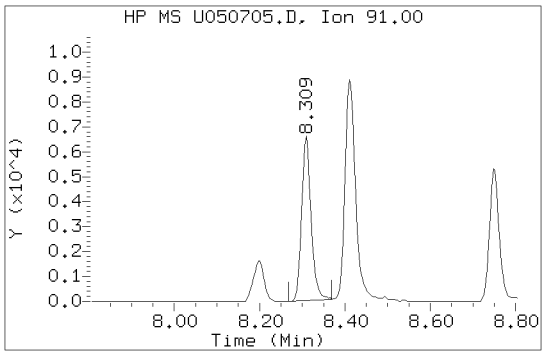
AFTER
MASS
106
AREA
3419
HEIGHT
2166
28-May-2024
10:32
firat



BEFORE
MASS
91
AREA
10348
HEIGHT
6595
07-May-2024
16:19
firat
tastan



AFTER
MASS
91
AREA
10348
HEIGHT
6595
28-May-2024
10:32
firat



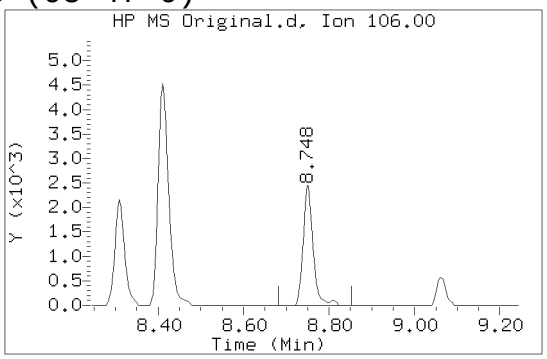
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

o-Xylene (95-47-6)

Reason Code:

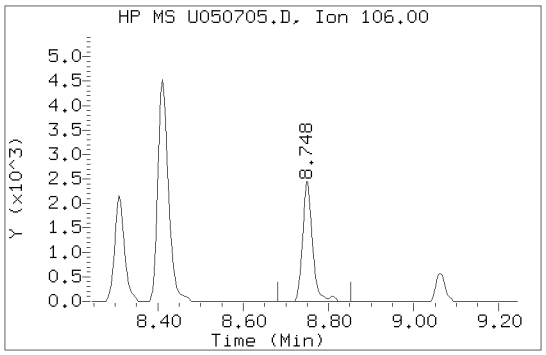
BEFORE

MASS
106
AREA
4049
HEIGHT
2448
07-May-2024
16:19
firat
tastan



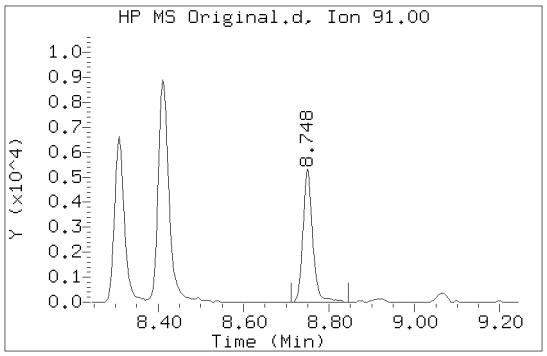
AFTER

MASS
106
AREA
4049
HEIGHT
2448
28-May-2024
10:32
firat



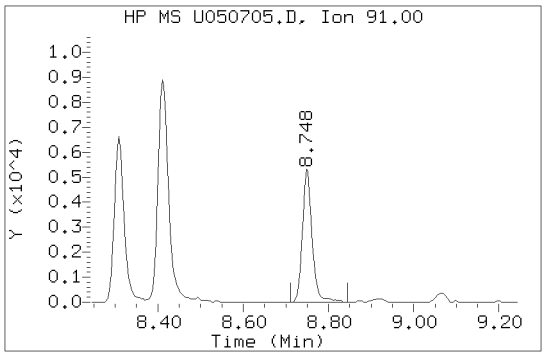
BEFORE

MASS
91
AREA
8640
HEIGHT
5314
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
8640
HEIGHT
5314
28-May-2024
10:32
firat

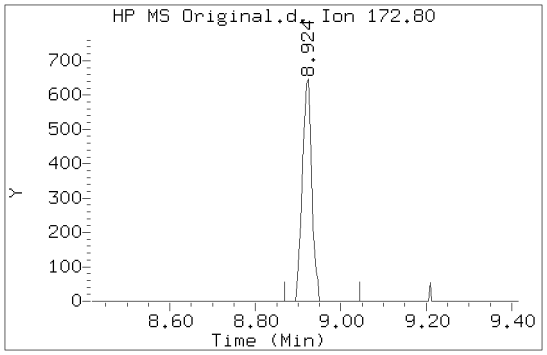


Bromoform (75-25-2)

Reason Code:

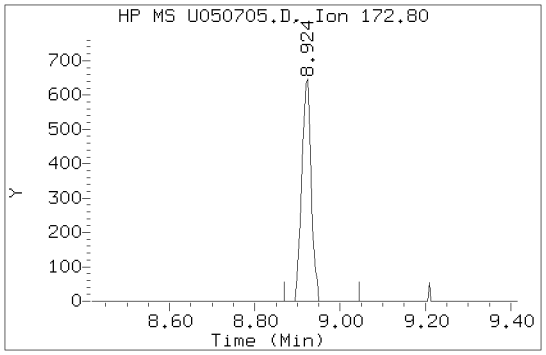
BEFORE

MASS
172.8
AREA
1007
HEIGHT
647
07-May-2024
16:19
firat
tastan



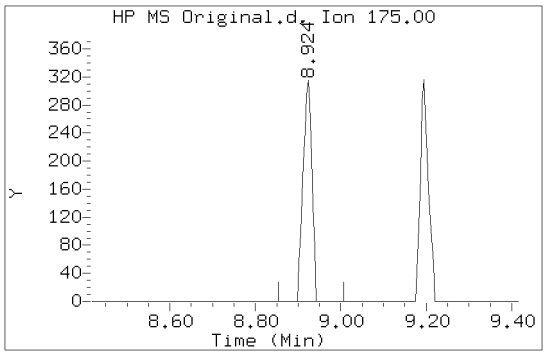
AFTER

MASS
172.8
AREA
1007
HEIGHT
647
28-May-2024
10:32
firat



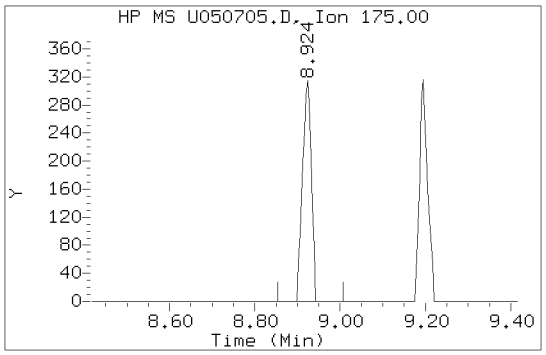
BEFORE

MASS
175
AREA
461
HEIGHT
315
07-May-2024
16:19
firat
tastan



AFTER

MASS
175
AREA
461
HEIGHT
315
28-May-2024
10:32
firat



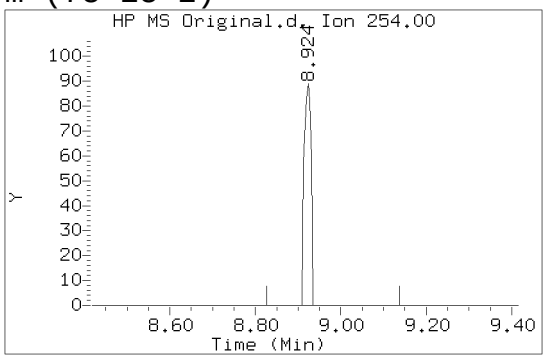
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

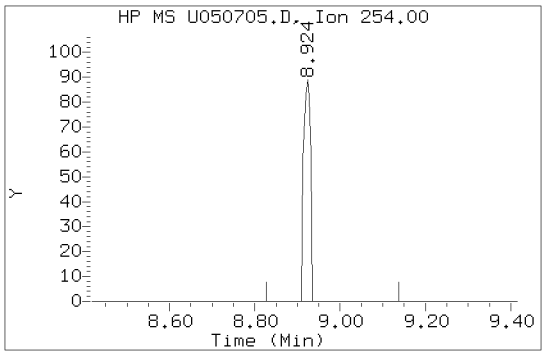
BEFORE

MASS
254
AREA
99
HEIGHT
89
07-May-2024
16:19
firat
tastan



AFTER

MASS
254
AREA
99
HEIGHT
89
28-May-2024
10:32
firat

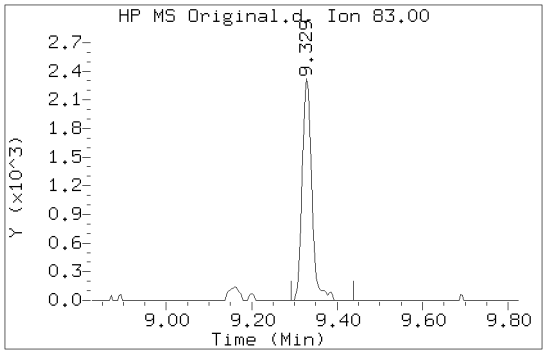


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

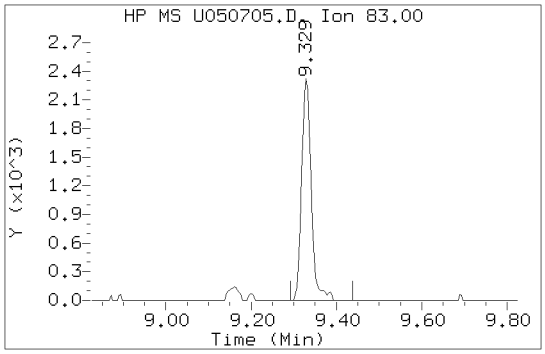
BEFORE

MASS
83
AREA
3743
HEIGHT
2322
07-May-2024
16:19
firat
tastan



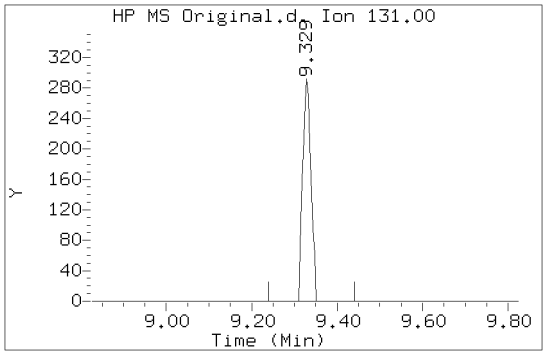
AFTER

MASS
83
AREA
3743
HEIGHT
2322
28-May-2024
10:32
firat



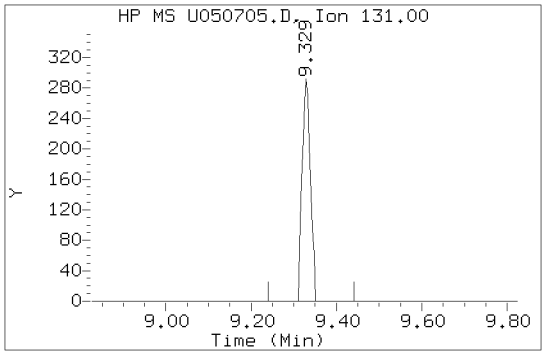
BEFORE

MASS
131
AREA
405
HEIGHT
292
07-May-2024
16:19
firat
tastan



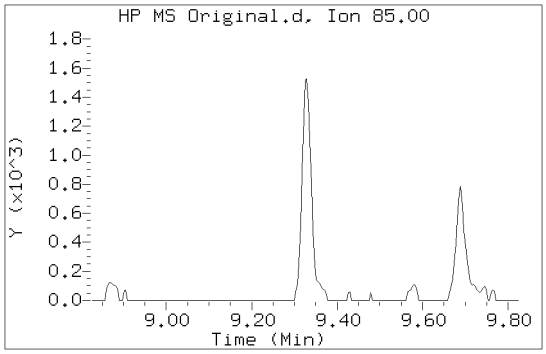
AFTER

MASS
131
AREA
405
HEIGHT
292
28-May-2024
10:32
firat



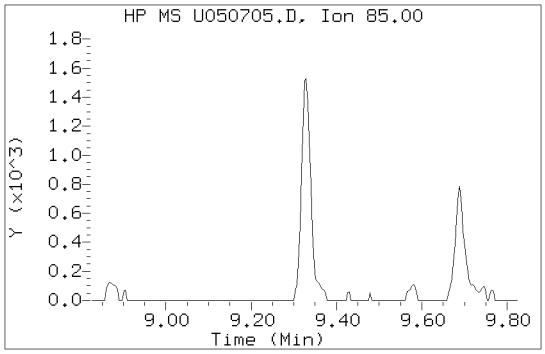
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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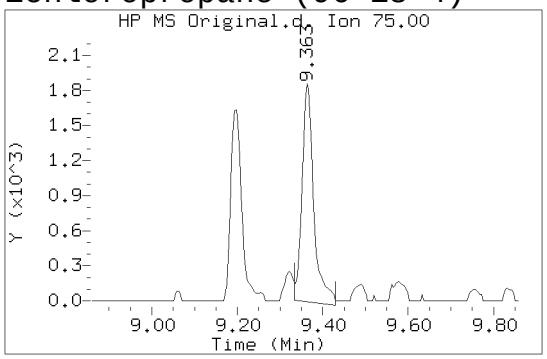
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

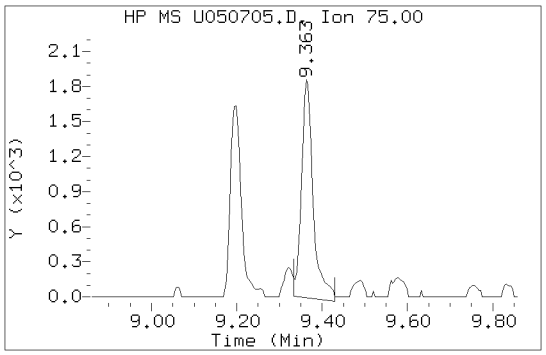
1,2,3-Trichloropropane (96-18-4)

Reason Code:

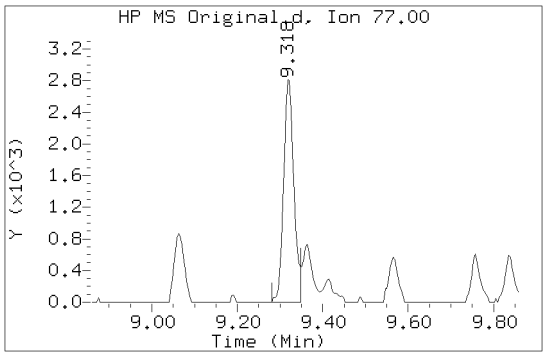
BEFORE
MASS
75
AREA
3654
HEIGHT
1865
07-May-2024
16:19
firat
tastan



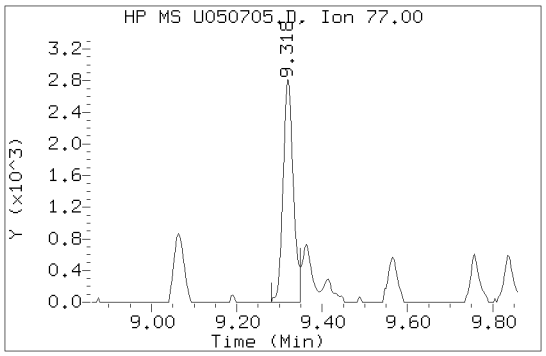
AFTER
MASS
75
AREA
3654
HEIGHT
1865
28-May-2024
10:32
firat



BEFORE
MASS
77
AREA
4695
HEIGHT
2809
07-May-2024
16:19
firat
tastan



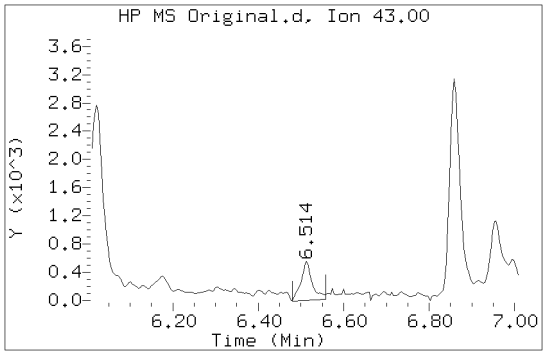
AFTER
MASS
77
AREA
4695
HEIGHT
2809
28-May-2024
10:32
firat



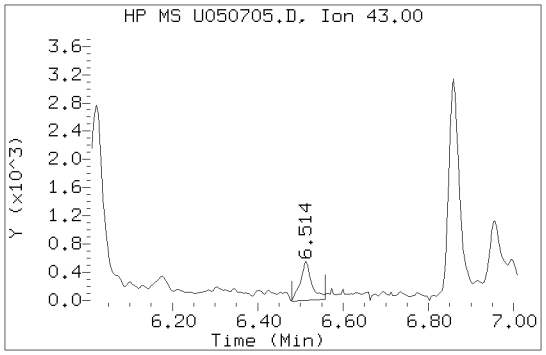
2-Nitropropane (79-46-9)

Reason Code:

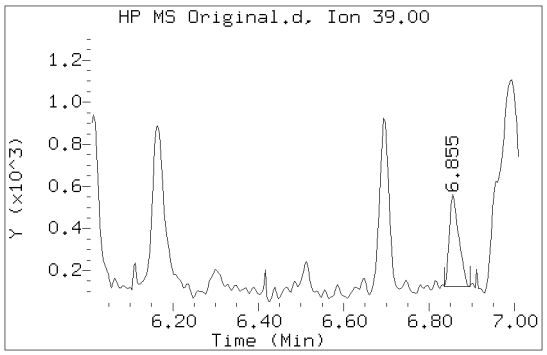
BEFORE
MASS
43
AREA
1049
HEIGHT
555
07-May-2024
16:19
firat
tastan



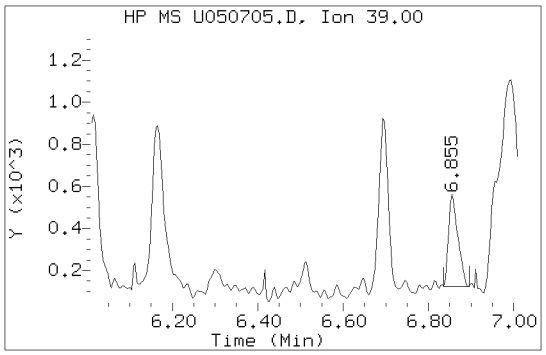
AFTER
MASS
43
AREA
1049
HEIGHT
555
28-May-2024
10:32
firat



BEFORE
MASS
39
AREA
664
HEIGHT
437
07-May-2024
16:19
firat
tastan



AFTER
MASS
39
AREA
664
HEIGHT
437
28-May-2024
10:32
firat



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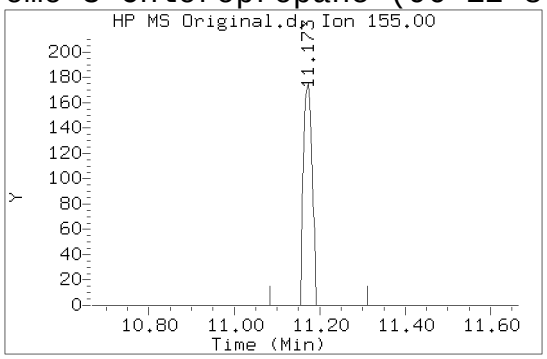
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

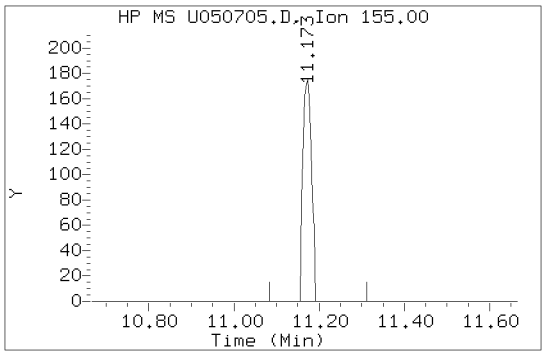
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

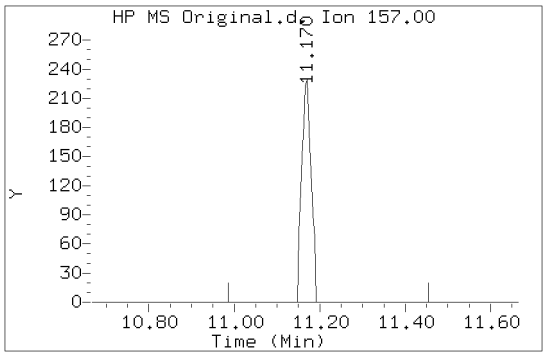
BEFORE
MASS
155
AREA
256
HEIGHT
175
07-May-2024
16:19
firat
tastan



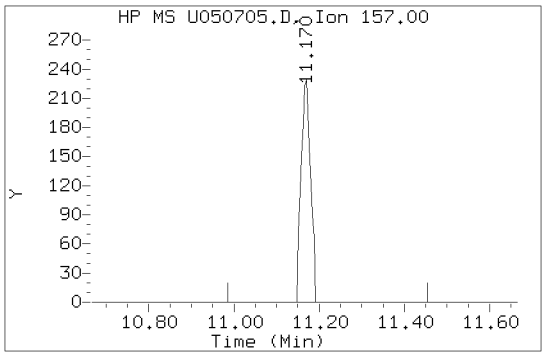
AFTER
MASS
155
AREA
256
HEIGHT
175
28-May-2024
10:32
firat



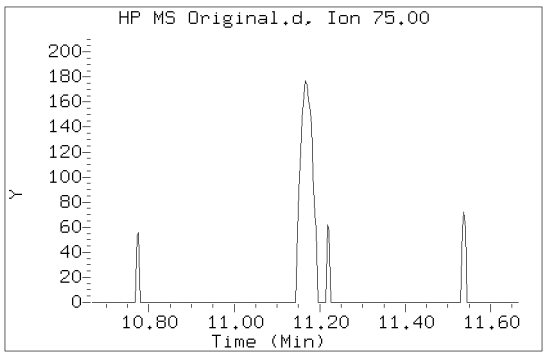
BEFORE
MASS
157
AREA
361
HEIGHT
229
07-May-2024
16:19
firat
tastan



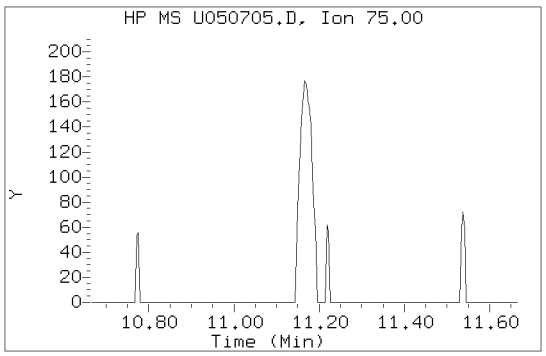
AFTER
MASS
157
AREA
361
HEIGHT
229
28-May-2024
10:32
firat



BEFORE
MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



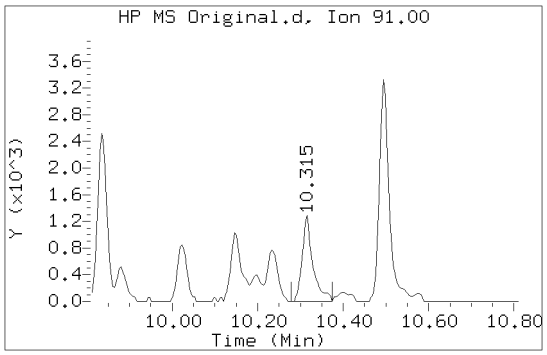
AFTER
MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



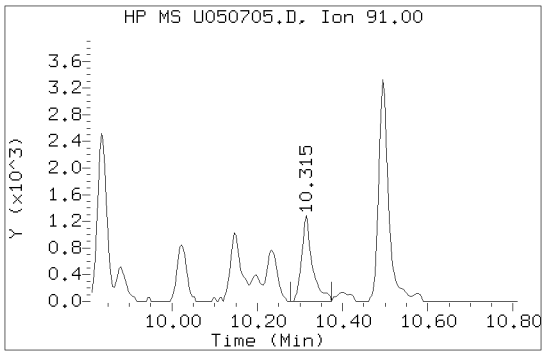
Benzyl Chloride (100-44-7)

Reason Code:

BEFORE
MASS
91
AREA
2290
HEIGHT
1291
07-May-2024
16:19
firat
tastan



AFTER
MASS
91
AREA
2290
HEIGHT
1291
28-May-2024
10:32
firat



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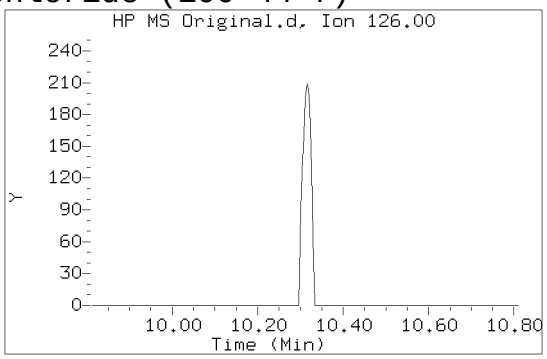
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

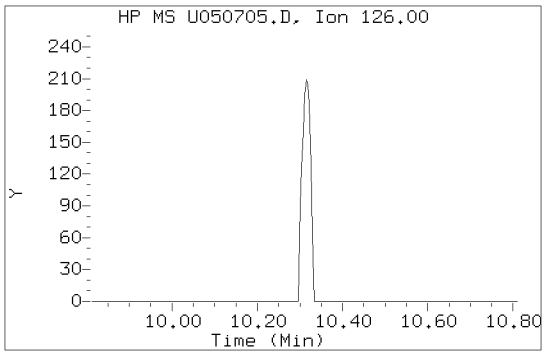
Benzyl Chloride (100-44-7)

Reason Code:

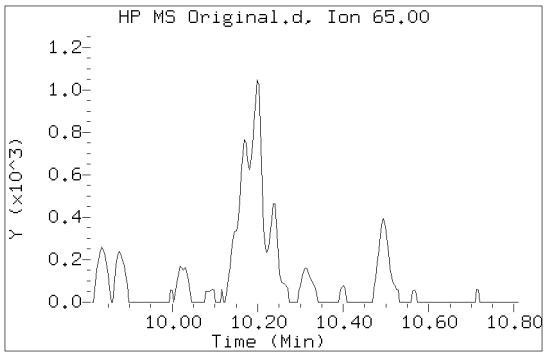
BEFORE
MASS
126
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



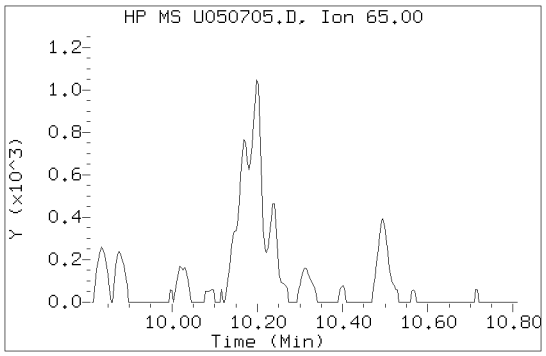
AFTER
MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



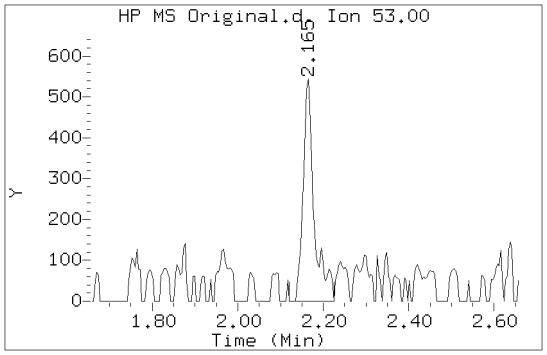
AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



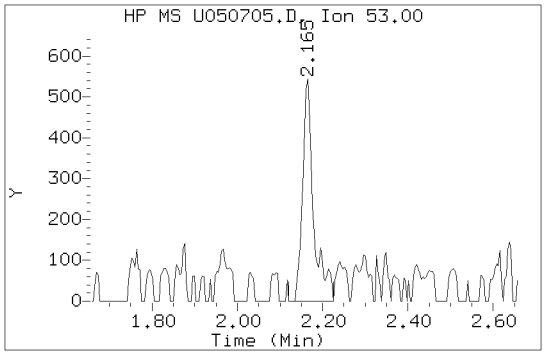
Chloroprene (126-99-8)

Reason Code:

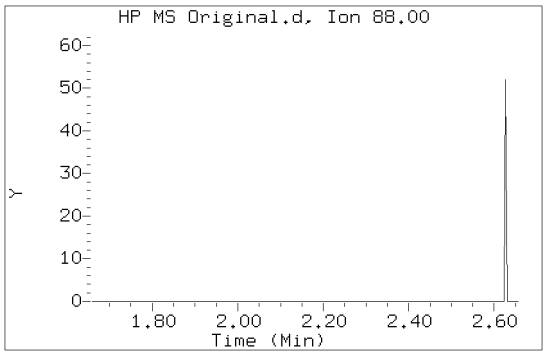
BEFORE
MASS
53
AREA
993
HEIGHT
544
07-May-2024
16:19
firat
tastan



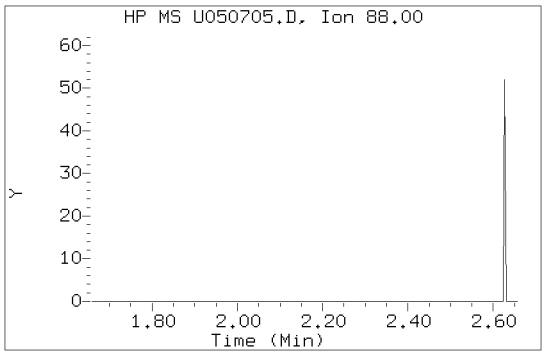
AFTER
MASS
53
AREA
993
HEIGHT
544
28-May-2024
10:32
firat



BEFORE
MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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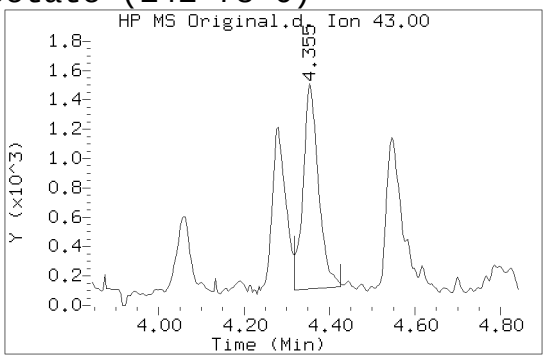
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

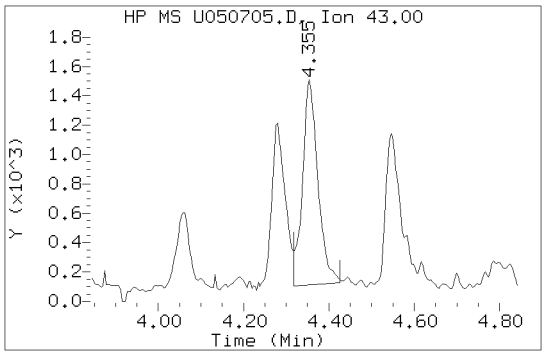
BEFORE

MASS
43
AREA
3554
HEIGHT
1398
07-May-2024
16:19
firat
tastan



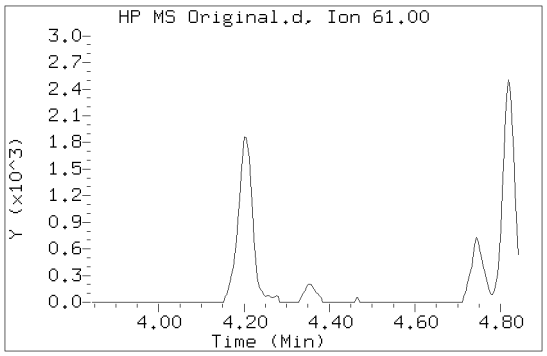
AFTER

MASS
43
AREA
3554
HEIGHT
1398
28-May-2024
10:32
firat



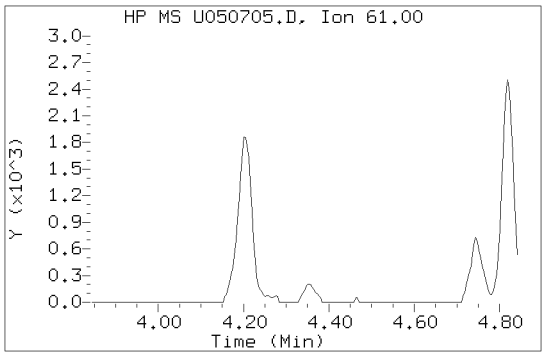
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



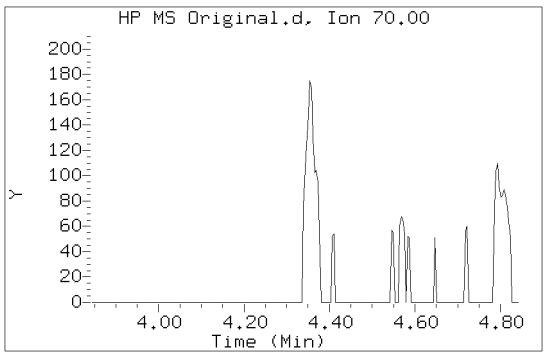
AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



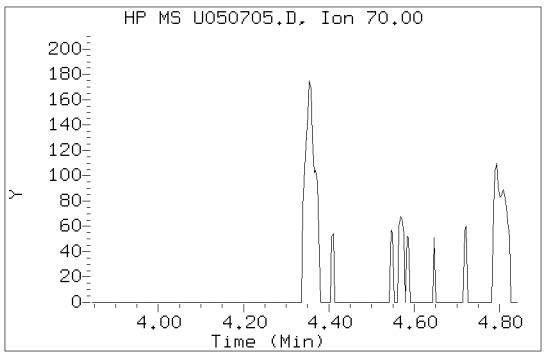
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

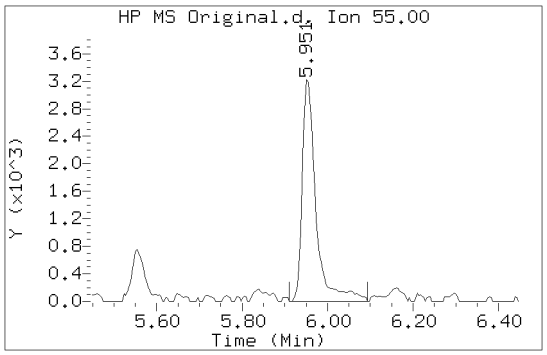


Ethyl Acrylate (140-88-5)

Reason Code:

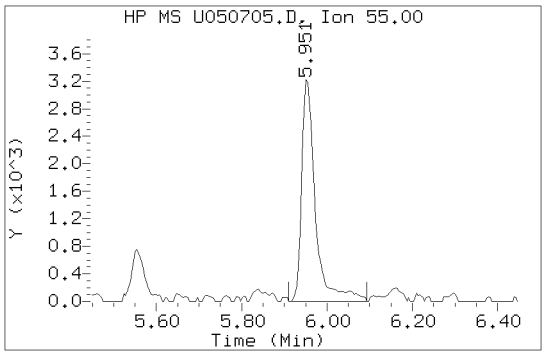
BEFORE

MASS
55
AREA
7288
HEIGHT
3223
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
7288
HEIGHT
3223
28-May-2024
10:32
firat



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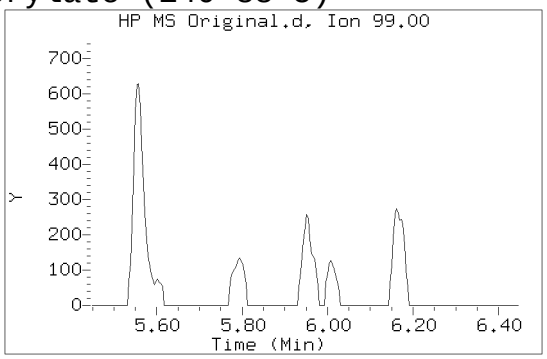
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

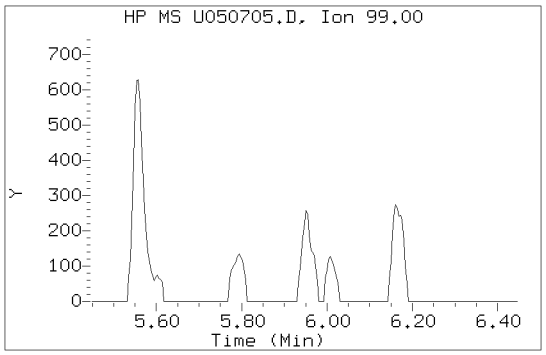
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

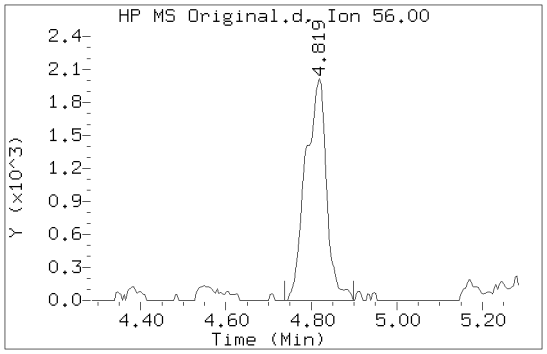


Cyclohexane (110-82-7)

Reason Code:

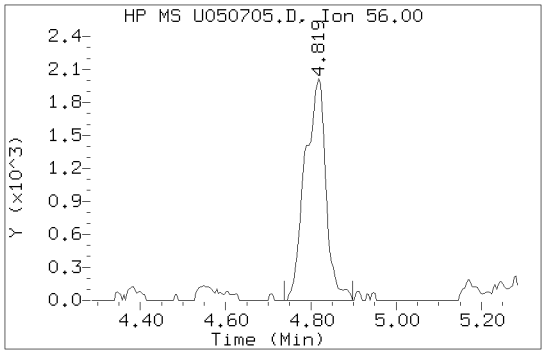
BEFORE

MASS
56
AREA
6934
HEIGHT
2016
07-May-2024
16:19
firat
tastan



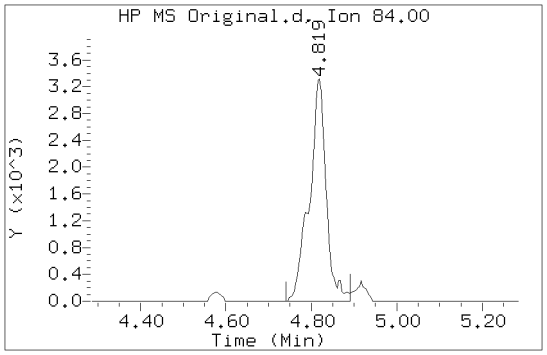
AFTER

MASS
56
AREA
6934
HEIGHT
2016
28-May-2024
10:32
firat



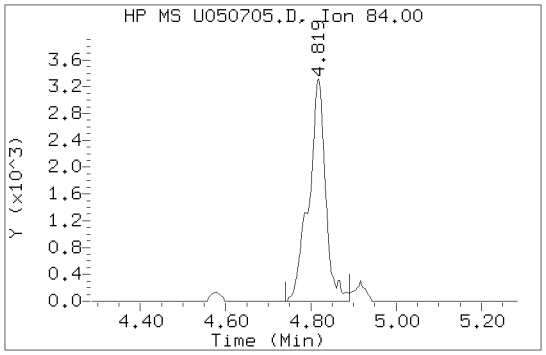
BEFORE

MASS
84
AREA
9169
HEIGHT
3317
07-May-2024
16:19
firat
tastan



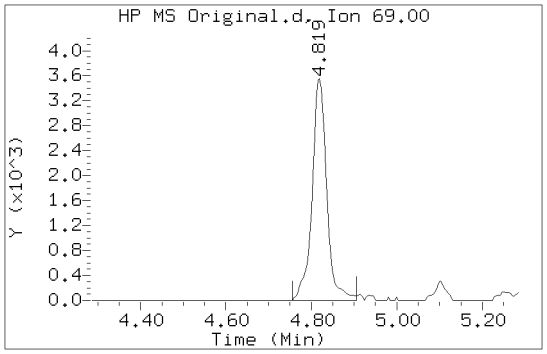
AFTER

MASS
84
AREA
9169
HEIGHT
3317
28-May-2024
10:32
firat



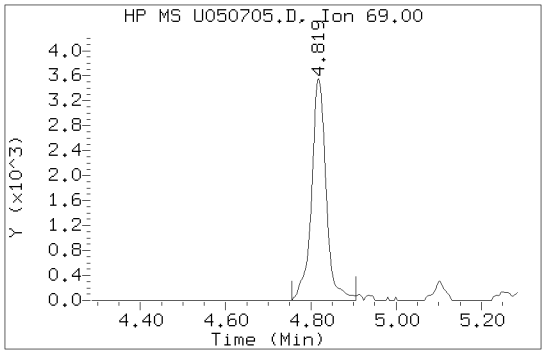
BEFORE

MASS
69
AREA
8497
HEIGHT
3552
07-May-2024
16:19
firat
tastan



AFTER

MASS
69
AREA
8497
HEIGHT
3552
28-May-2024
10:32
firat



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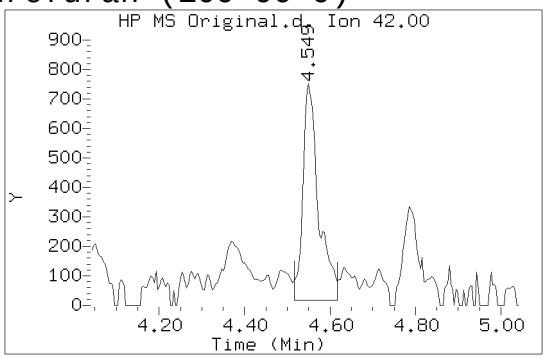
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

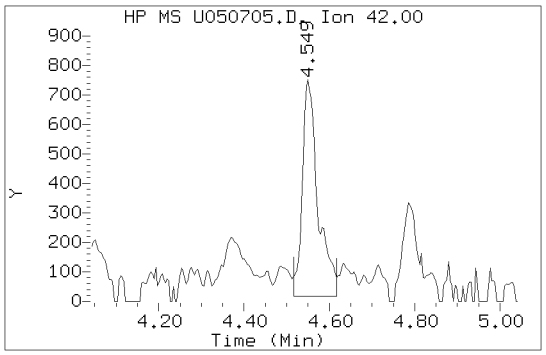
BEFORE

MASS
42
AREA
1900
HEIGHT
734
07-May-2024
16:19
firat
tastan



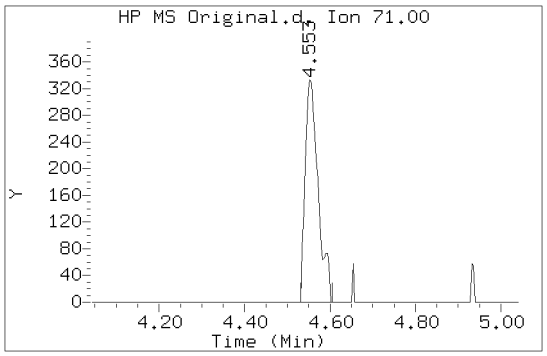
AFTER

MASS
42
AREA
1900
HEIGHT
734
28-May-2024
10:32
firat



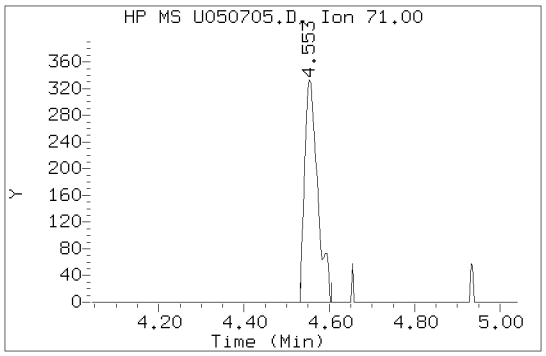
BEFORE

MASS
71
AREA
714
HEIGHT
333
07-May-2024
16:19
firat
tastan



AFTER

MASS
71
AREA
714
HEIGHT
333
28-May-2024
10:32
firat

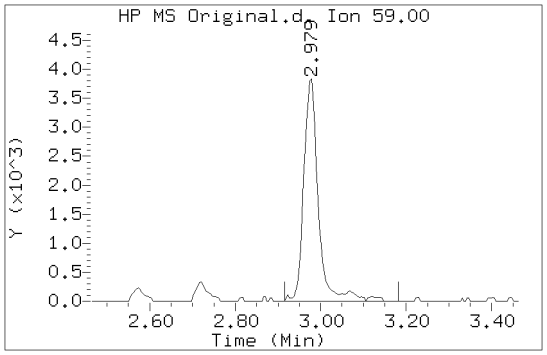


Tert-butyl alcohol (75-65-0)

Reason Code:

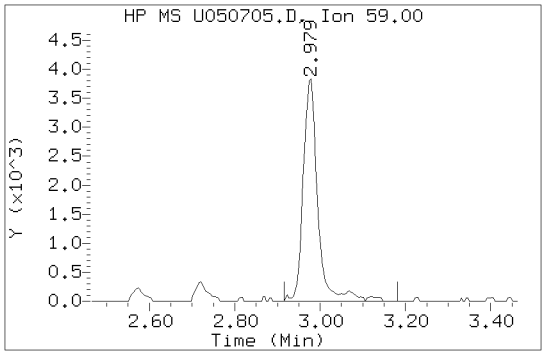
BEFORE

MASS
59
AREA
9237
HEIGHT
3834
07-May-2024
16:19
firat
tastan



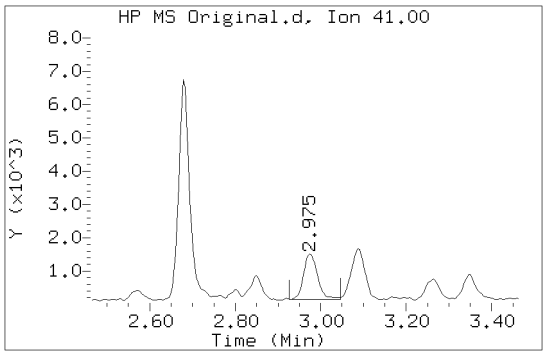
AFTER

MASS
59
AREA
9237
HEIGHT
3834
28-May-2024
10:32
firat



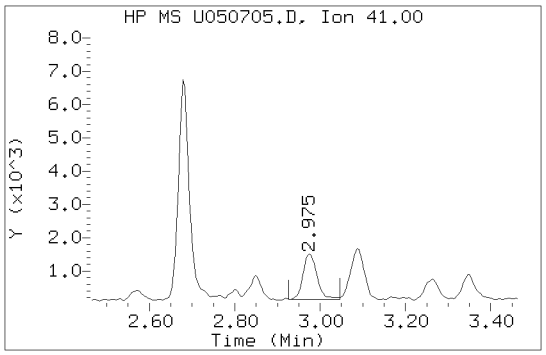
BEFORE

MASS
41
AREA
3130
HEIGHT
1355
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
3130
HEIGHT
1355
28-May-2024
10:32
firat



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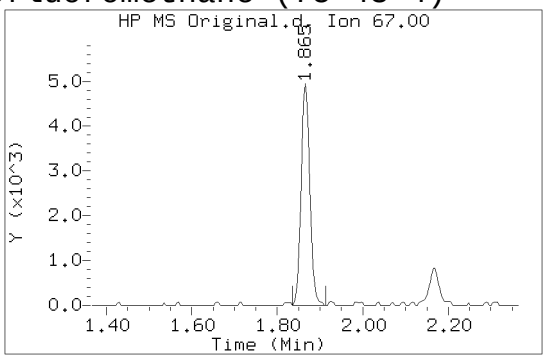
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

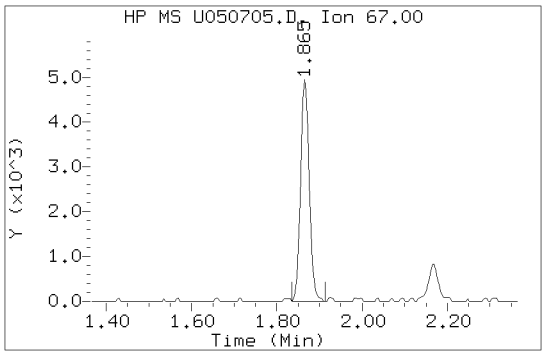
Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
67
AREA
7156
HEIGHT
4949
07-May-2024
16:19
firat
tastan



AFTER
MASS
67
AREA
7156
HEIGHT
4949
28-May-2024
10:32
firat



BEFORE
MASS
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AREA
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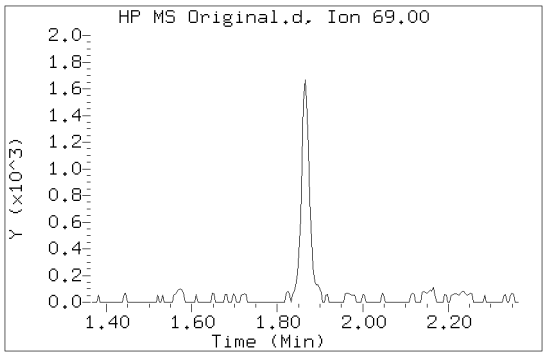
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
69
AREA
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HEIGHT
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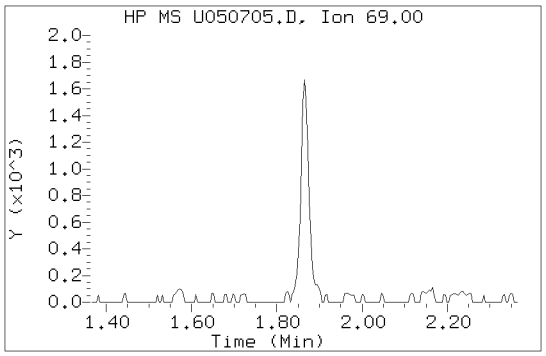
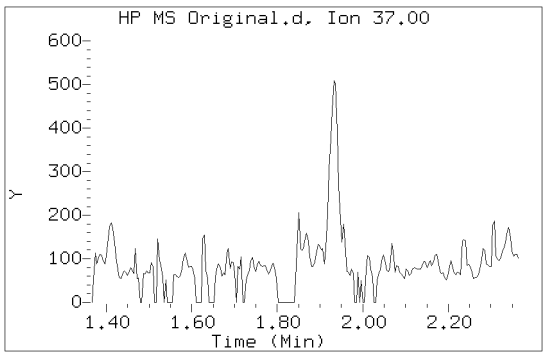
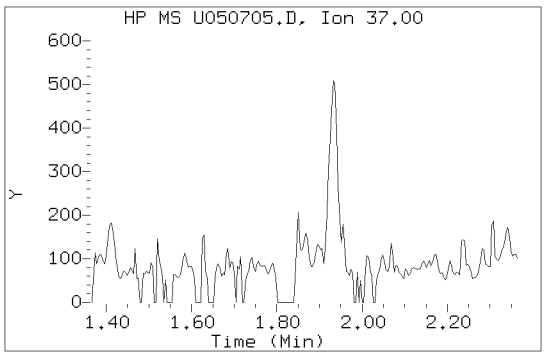
28-May-2024
10:32
firat



BEFORE
MASS
37
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



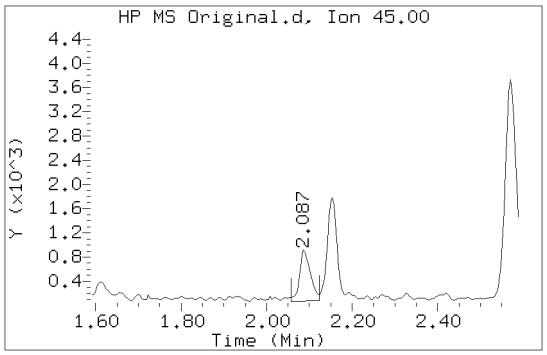
AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



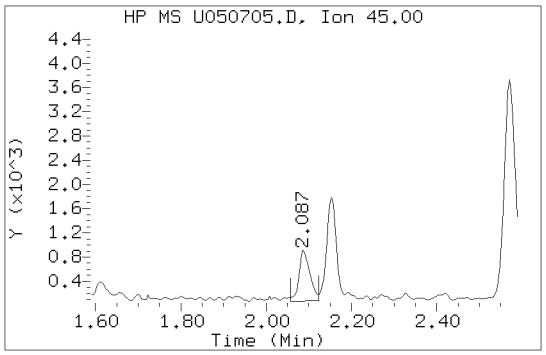
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
45
AREA
1541
HEIGHT
843
07-May-2024
16:19
firat
tastan



AFTER
MASS
45
AREA
1541
HEIGHT
843
28-May-2024
10:32
firat



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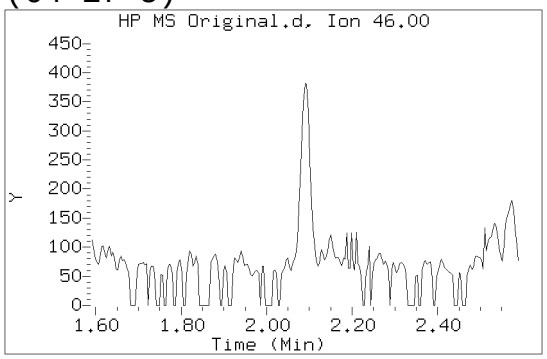
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
46
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
46
AREA
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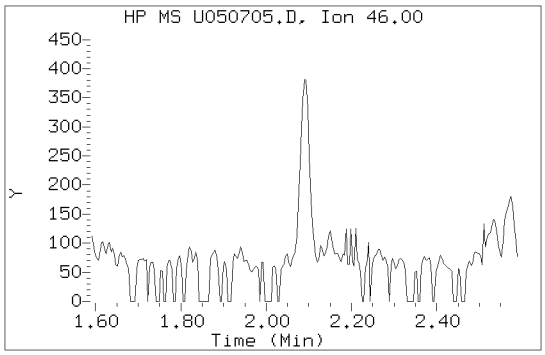
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
43
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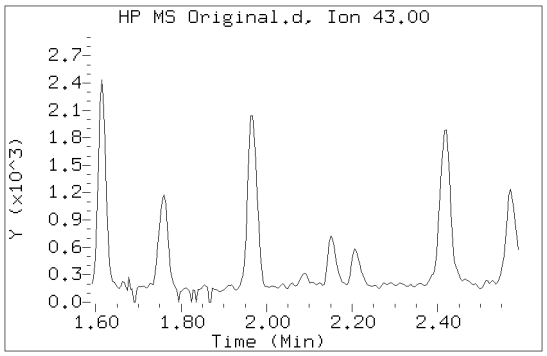
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
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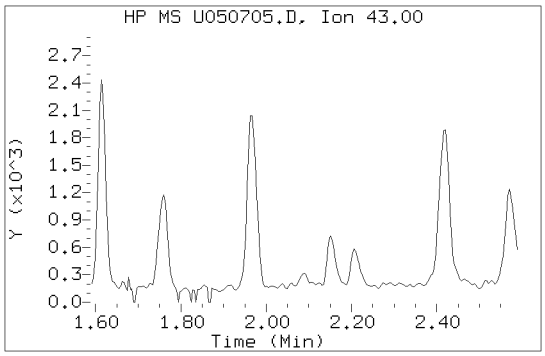
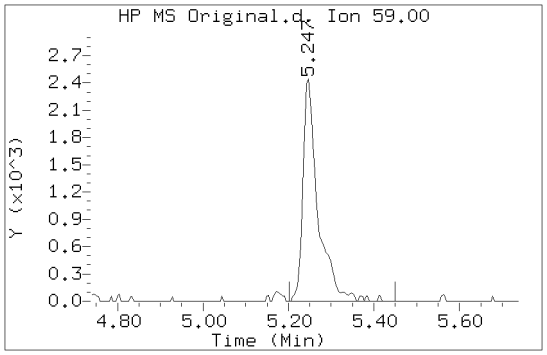
HEIGHT
0
28-May-2024
10:32
firat



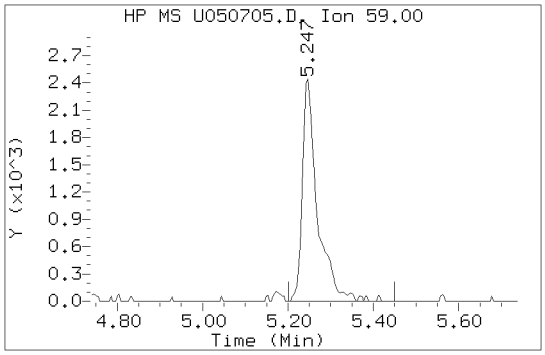
tert-Butyl formate (762-75-4)

Reason Code:

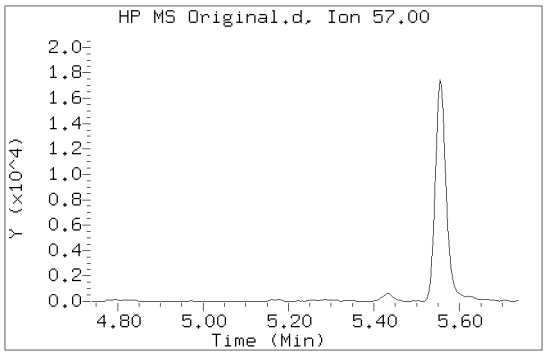
BEFORE
MASS
59
AREA
6077
HEIGHT
2444
07-May-2024
16:19
firat
tastan



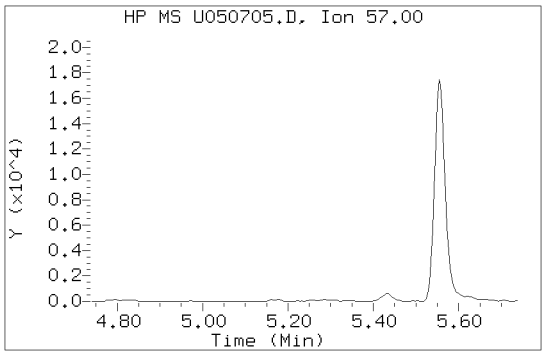
AFTER
MASS
59
AREA
6077
HEIGHT
2444
28-May-2024
10:32
firat



BEFORE
MASS
57
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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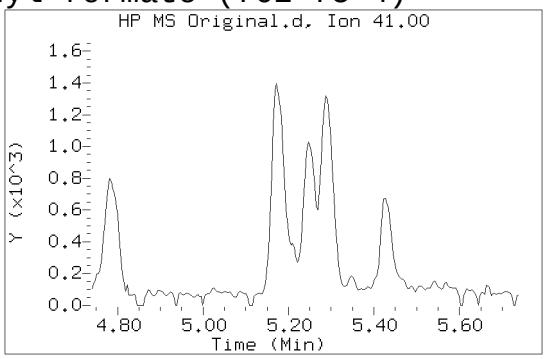
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

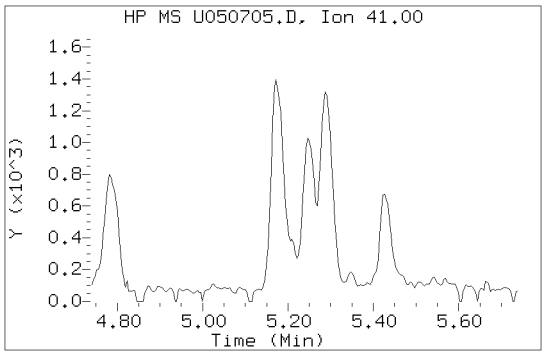
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



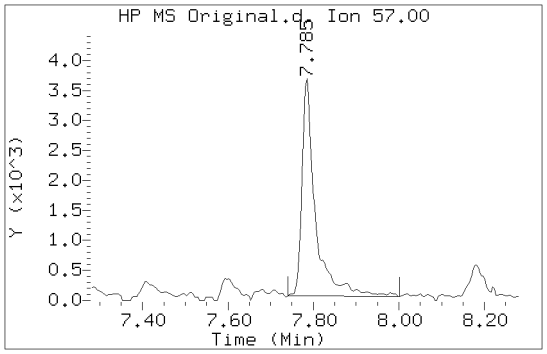
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



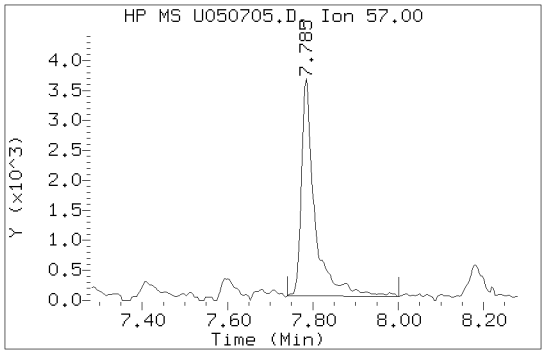
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

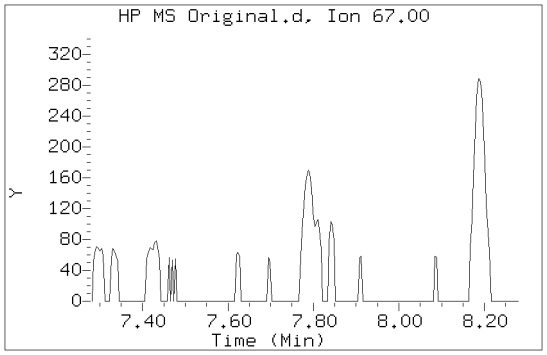
BEFORE
MASS
57
AREA
8149
HEIGHT
3627
07-May-2024
16:19
firat
tastan



AFTER
MASS
57
AREA
8149
HEIGHT
3627
28-May-2024
10:32
firat



BEFORE
MASS
67
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
67
AREA
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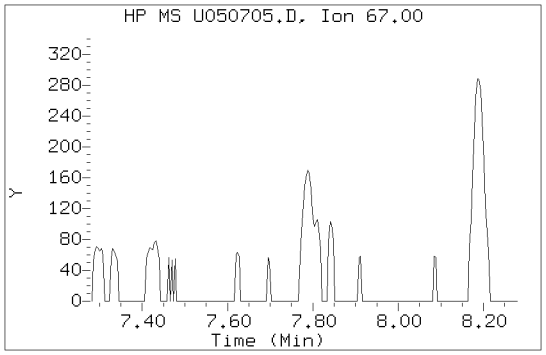
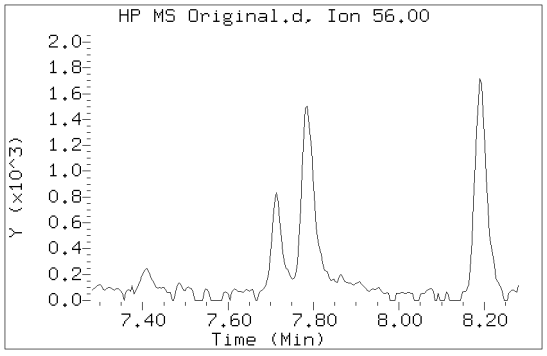
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
56
AREA
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HEIGHT
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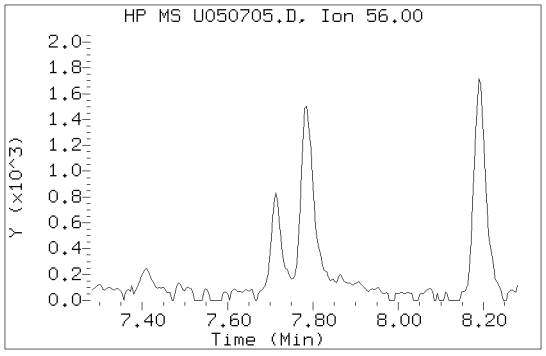
28-May-2024
10:32
firat



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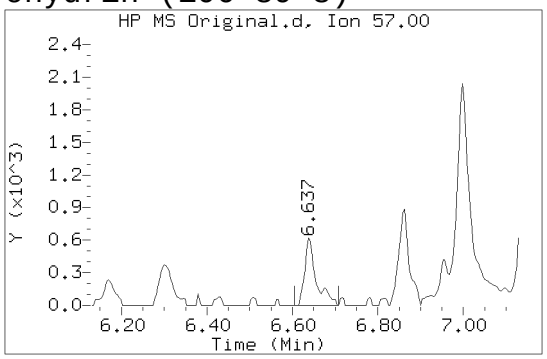
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

MASS
57
AREA
1163
HEIGHT
620
07-May-2024
16:19
firat
tastan



AFTER

MASS
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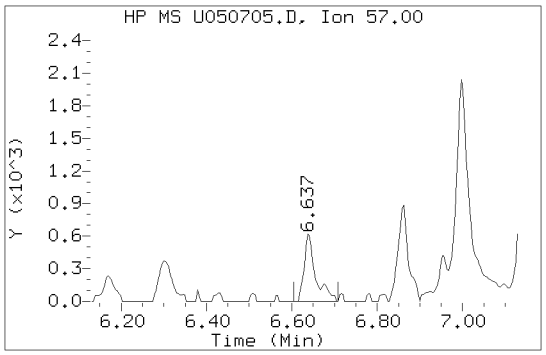
AREA
1163
HEIGHT
620
28-May-2024
10:32
firat



BEFORE

MASS
49
AREA
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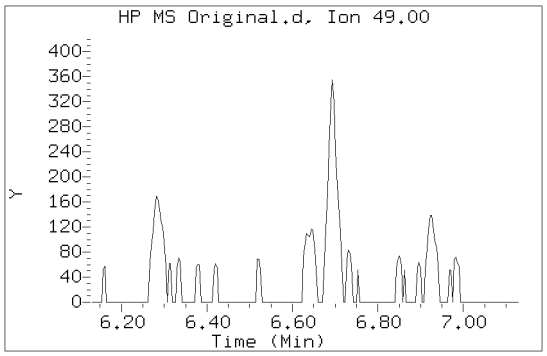
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

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HEIGHT
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28-May-2024
10:32
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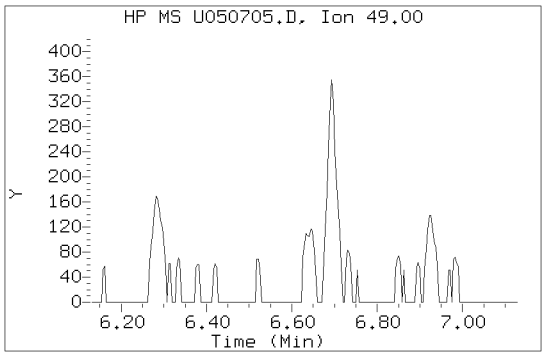

Isoprene (78-79-5)

Reason Code:

BEFORE

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07-May-2024
16:19
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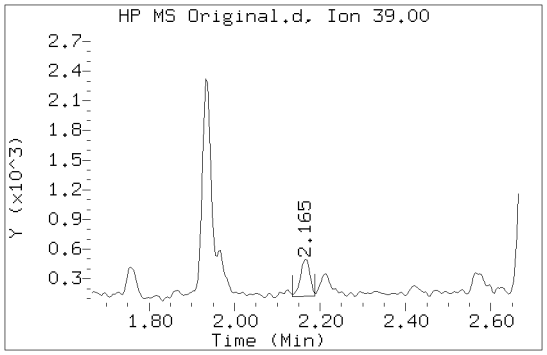

AFTER

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HEIGHT
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28-May-2024
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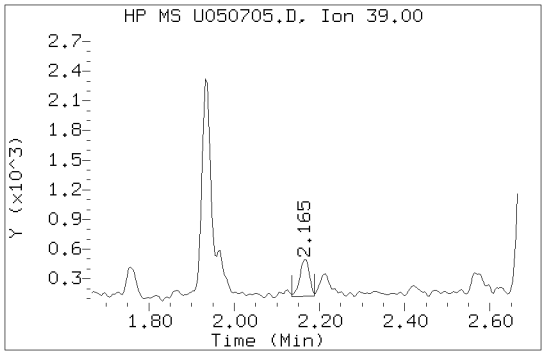

BEFORE

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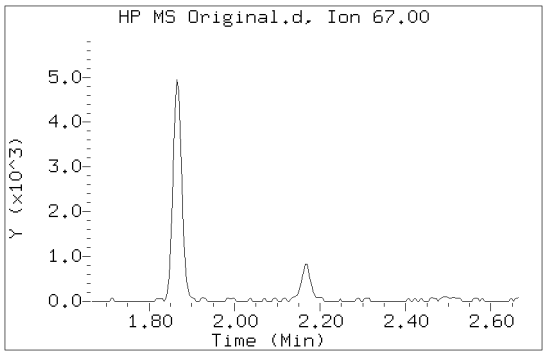

AFTER

MASS
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HEIGHT
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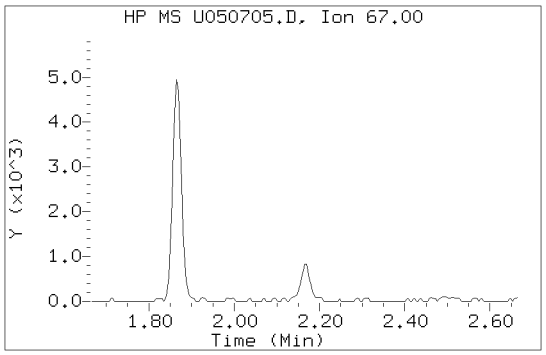
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

BEFORE

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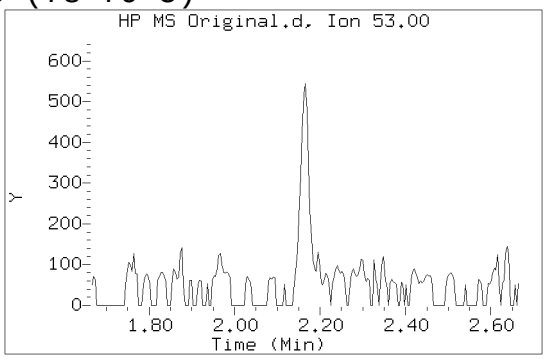

AFTER

MASS
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HEIGHT
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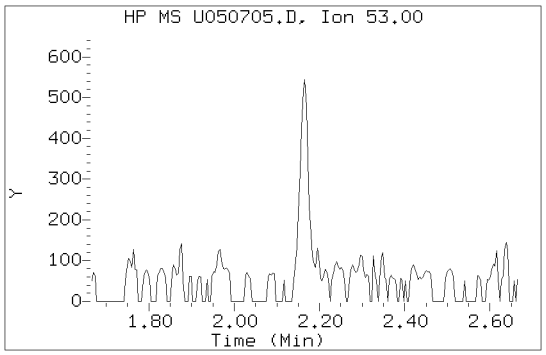
28-May-2024
10:32
firat



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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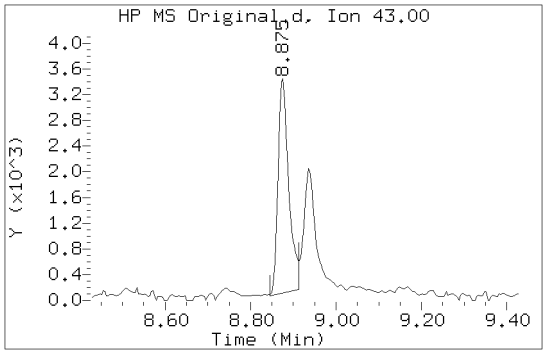
07-May-2024
16:19
firat
tastan



AFTER

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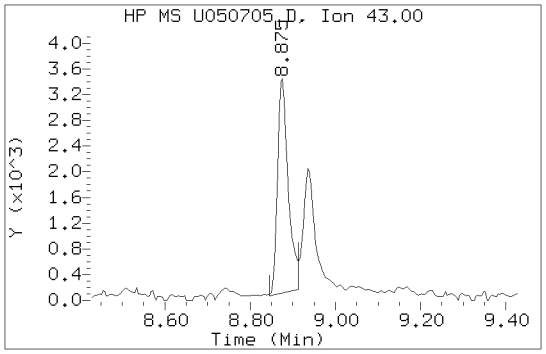
28-May-2024
10:32
firat



BEFORE

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HEIGHT
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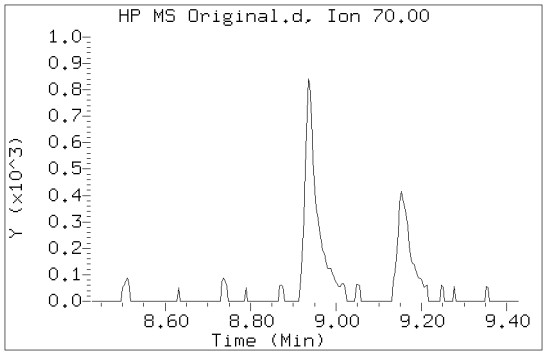
07-May-2024
16:19
firat
tastan



AFTER

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AREA
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HEIGHT
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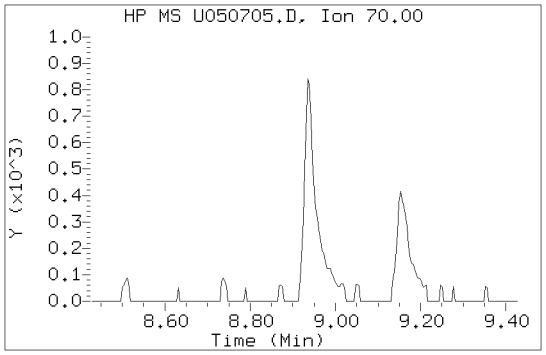
28-May-2024
10:32
firat



BEFORE

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16:19
firat
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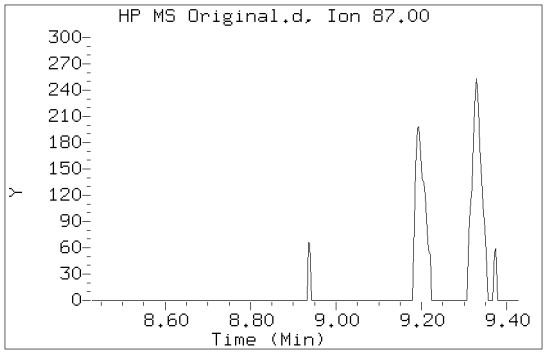

AFTER

MASS
87
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HEIGHT
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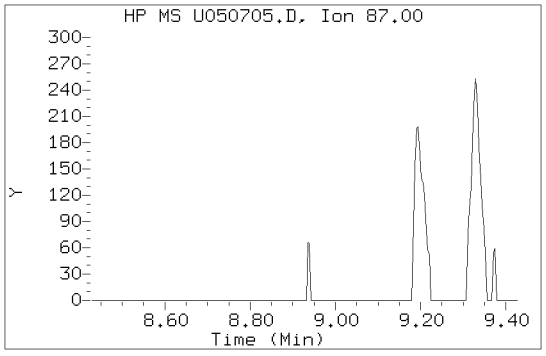
28-May-2024
10:32
firat



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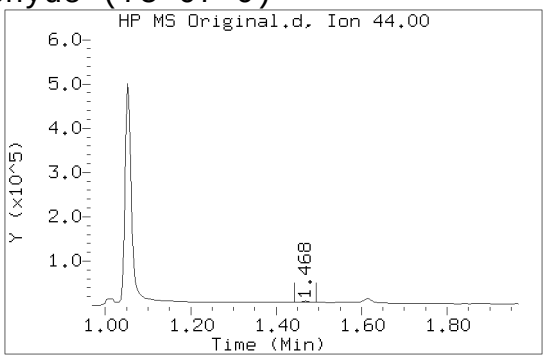
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
3690
HEIGHT
2980
07-May-2024
16:19
firat
tastan



AFTER

MASS
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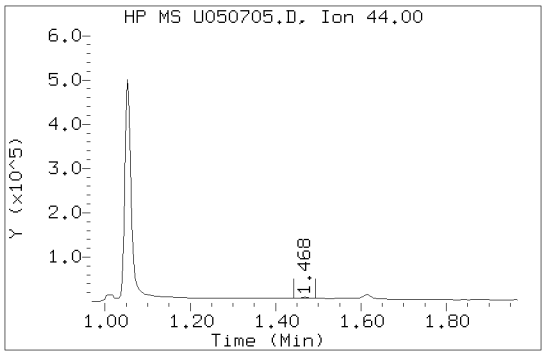
HEIGHT
2980
28-May-2024
10:32
firat



BEFORE

MASS
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AREA
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HEIGHT
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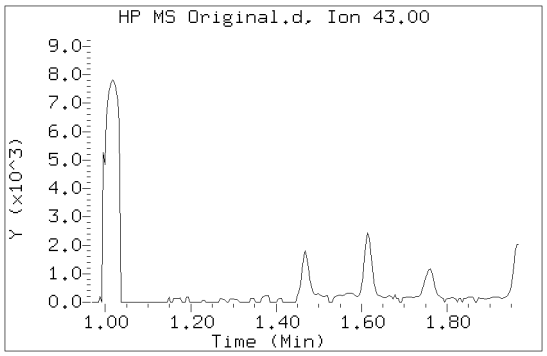
07-May-2024
16:19
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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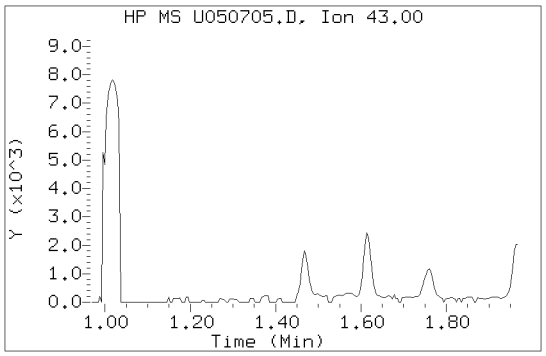
28-May-2024
10:32
firat



BEFORE

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HEIGHT
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07-May-2024
16:19
firat
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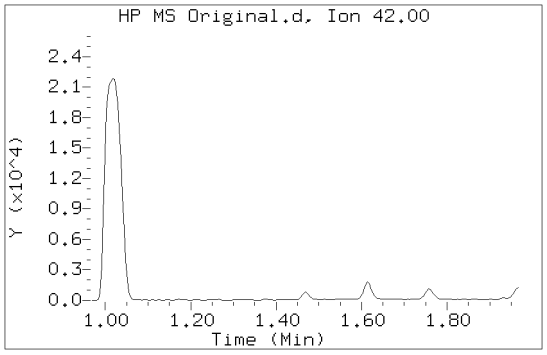

AFTER

MASS
42
AREA
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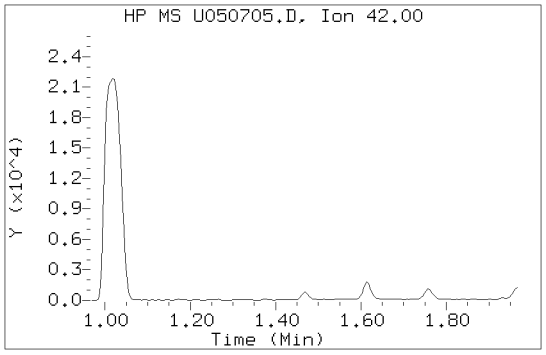
HEIGHT
0
28-May-2024
10:32
firat



Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
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07-May-2024
16:19
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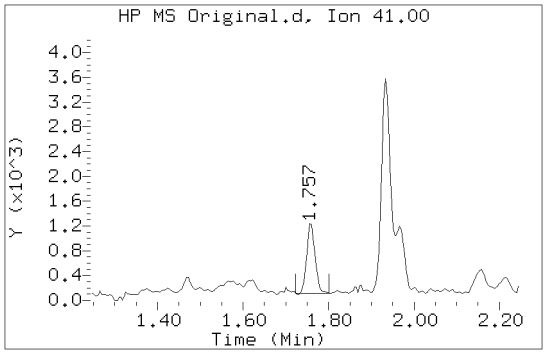

AFTER

MASS
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1563
HEIGHT
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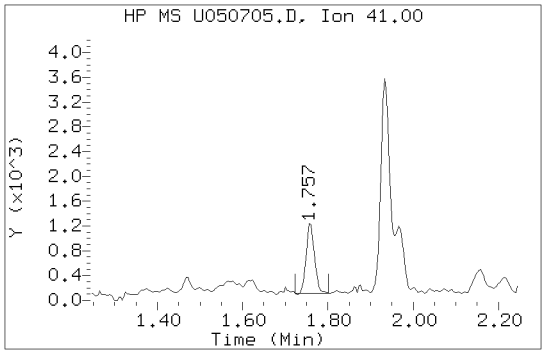
28-May-2024
10:32
firat



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
56
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HEIGHT
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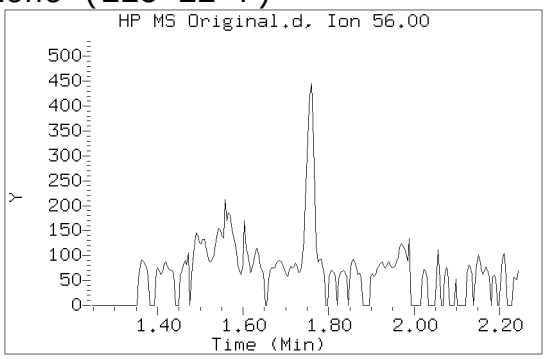
07-May-2024
16:19
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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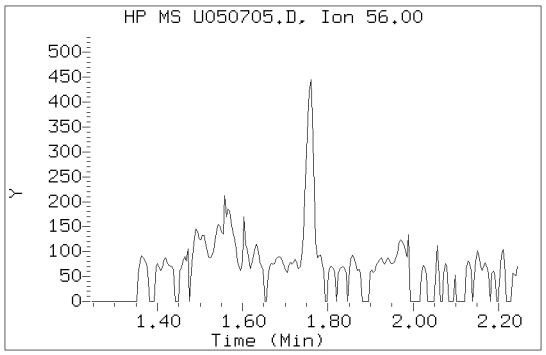
28-May-2024
10:32
firat



BEFORE
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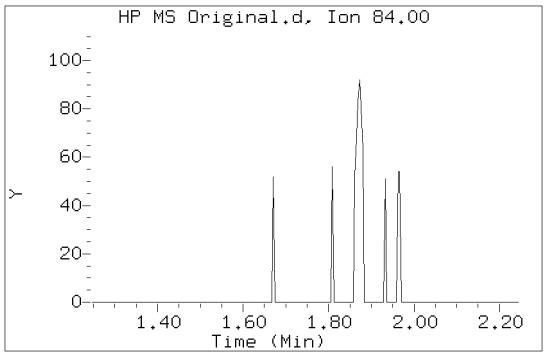
07-May-2024
16:19
firat
tastan



AFTER
MASS
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HEIGHT
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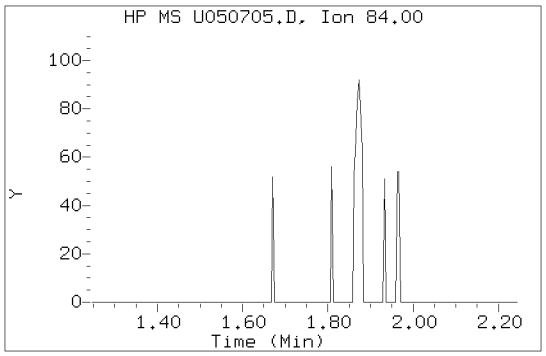
28-May-2024
10:32
firat



2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
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AREA
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HEIGHT
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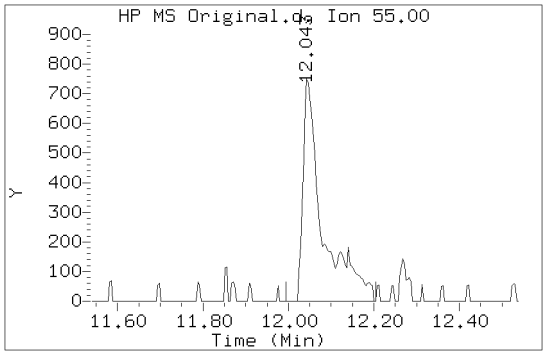
07-May-2024
16:19
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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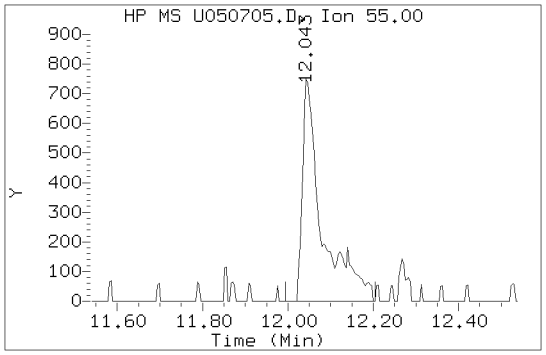
28-May-2024
10:32
firat



BEFORE
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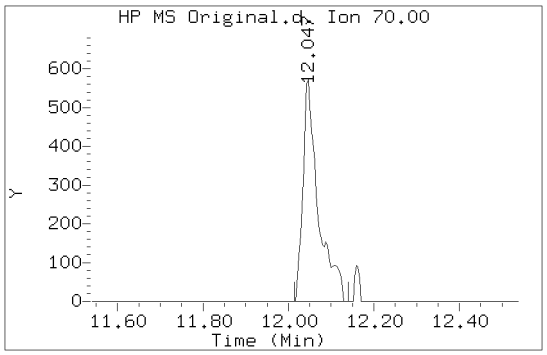
HEIGHT
572
07-May-2024
16:19
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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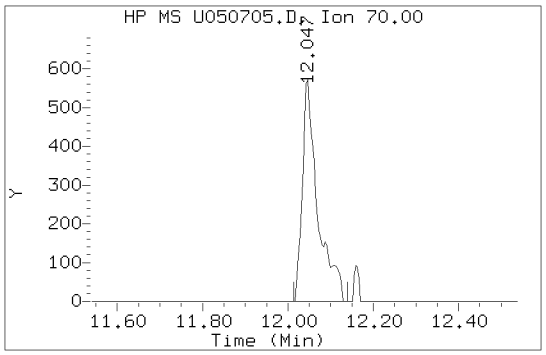
28-May-2024
10:32
firat



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 07-MAY-2024 13:31
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:09 Cal File: U050705.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: 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)	229273	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	6995	5.00000	5.42
3	Chloromethane	50	1.299	1.299	(0.270)	10242	5.00000	4.89
4	Propionitrile	54	4.339	4.339	(0.901)	16521	50.0000	44.43(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	9419	5.00000	5.11
6	Bromomethane	94	1.618	1.618	(0.336)	7113	5.00000	6.86
7	Chloroethane	64	1.700	1.700	(0.353)	7332	5.00000	5.38
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	11234	5.00000	5.19
9	Acrolein	56	2.262	2.262	(0.470)	2063	10.0000	19.73(aM)
10	Acetone	43	2.408	2.408	(0.500)	7115	10.0000	7.98
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	6623	5.00000	5.28
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	23279	100.000	96.23(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	12145	50.0000	53.42(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	30771	5.00000	5.30(a)
15	Iodomethane	142	2.468	2.468	(0.513)	9847	10.0000	8.44
16	Acrylonitrile	53	3.068	3.068	(0.637)	8951	10.0000	8.13
17	Methylene Chloride	84	2.795	2.795	(0.580)	11146	5.00000	4.71
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	28098	5.00000	5.25
19	Carbon Disulfide	76	2.521	2.521	(0.524)	33657	10.0000	9.33
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	6703	5.00000	4.68

21 Vinyl Acetate	43	4.347	4.347 (0.903)	10513	10.0000	10.66(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	13839	5.00000	5.17

	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)	3544	5.00000	6.03(M)
	24 2-Butanone	43	4.272	4.272	(0.887)	6762	10.0000	9.33
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	5925	5.00000	4.74(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	7317	5.00000	4.88
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	7881	5.00000	5.01
	28 Chloroform	83	4.571	4.571	(0.949)	13088	5.00000	4.96
	29 Bromochloromethane	128	4.470	4.470	(0.928)	3845	5.00000	4.44
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	9896	5.00000	4.10
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	8861	5.00000	4.69
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	9352	5.00000	4.76
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	10560	5.00000	4.75
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	7430	5.00000	5.02
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	13371	5.00000	3.97
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	340600	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	29399	5.00000	4.81
	38 Trichloroethene	130	5.790	5.790	(1.043)	7532	5.00000	5.06
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	7262	5.00000	4.18(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	4231	5.00000	5.29(a)
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.194)	91	10.0000	7.56(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	8250	5.00000	5.29
	43 2-Nitropropane	43	6.510	6.510	(1.352)	1785	5.00000	3.97(a)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4856	5.00000	4.84(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	14567	10.0000	8.43
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	7260	5.00000	4.47(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	305593	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	36394	5.00000	4.34(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	13422	5.00000	5.38(a)
	50 Toluene	91	6.982	6.982	(0.853)	29814	5.00000	4.94(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5385	5.00000	4.44(a)
	52 2-Hexanone	43	7.597	7.597	(0.928)	9915	10.0000	11.16
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	5883	5.00000	4.69(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	12548	5.00000	4.75(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	5064	5.00000	5.68
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	5739	5.00000	4.97(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	6394	5.00000	4.55(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	8914	5.00000	5.02
	59 Chlorobenzene	112	8.211	8.211	(1.003)	20341	5.00000	4.84(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	5265	5.00000	5.56
	61 Ethylbenzene	106	8.309	8.309	(1.015)	9388	5.00000	4.74(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	22772	10.0000	9.50(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	10944	5.00000	4.57(a)
	64 Styrene	104	8.763	8.763	(1.071)	18622	5.00000	4.60(a)
	66 Bromoform	173	8.920	8.920	(1.090)	2885	5.00000	4.73(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	27170	5.00000	4.72(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9413	5.00000	5.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	13624	5.00000	4.30(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	154736	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	9835	5.00000	4.99(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	2204	5.00000	5.64(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	29548	5.00000	4.74(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	8026	5.00000	4.77(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	20818	5.00000	4.62(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	19567	5.00000	4.64(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	22065	5.00000	4.64(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D Page 3
Report Date: 28-May-2024 10:33

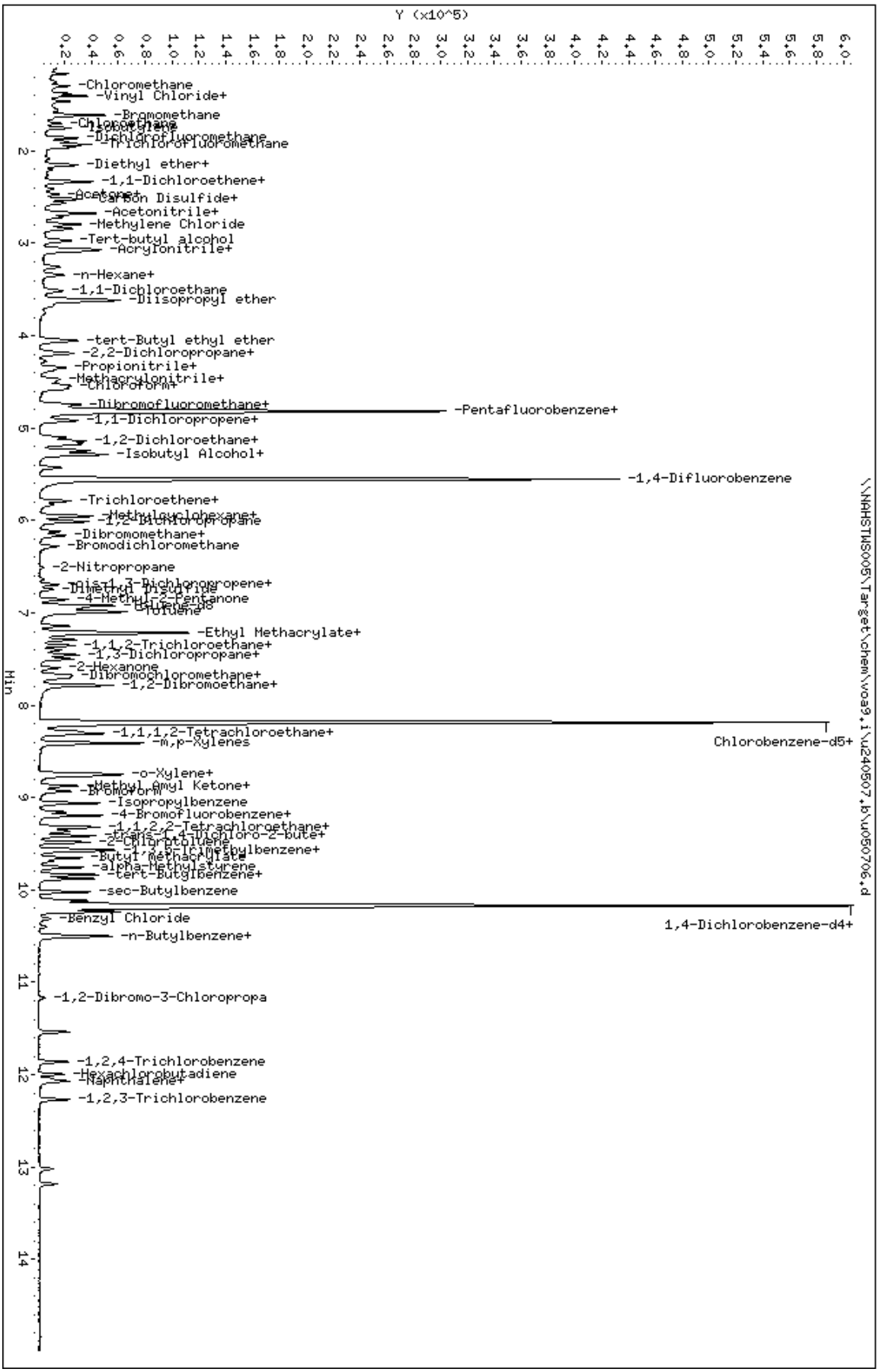
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	18821	5.00000	4.97(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	20605	5.00000	4.67(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	23448	5.00000	4.70(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	19891	5.00000	4.58(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13884	5.00000	4.72(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	15489	5.00000	5.51
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5627	5.00000	5.96
87	n-Butylbenzene	91	10.494	10.494	(1.032)	17285	5.00000	4.90(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14138	5.00000	5.21
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	827	5.00000	5.16
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	7474	5.00000	4.92(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	3679	5.00000	4.90(a)
92	Naphthalene	128	12.069	12.069	(1.186)	16682	5.00000	5.31
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	7813	5.00000	4.48(a)
146	Methyl acetate	43	2.712	2.712	(0.563)	16801	5.00000	4.94(a)
138	Freon TF	101	2.337	2.337	(0.485)	6636	5.00000	5.43
141	Cyclohexane	56	4.785	4.785	(0.994)	13919	5.00000	6.01
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	4287	10.0000	8.85(M)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	19798	5.00000	4.70(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	2798	100.000	101.00
132	n-Butanol	56	5.831	5.831	(1.211)	5772	100.000	93.82(a)
136	n-Hexane	57	3.342	3.342	(0.694)	7275	5.00000	4.83(a)
139	Diethyl ether	59	2.146	2.146	(0.446)	8441	5.00000	5.24
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	21887	100.000	104.91
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	16893	100.000	92.24(T)
152	Amyl alcohol	42	7.402	7.402	(0.904)	6413	100.000	105.18
156	Diisopropyl ether	45	3.623	3.623	(0.752)	33500	5.00000	5.16(T)
162	Butyl acrylate	55	8.736	8.736	(1.067)	12890	5.00000	4.99(a)
187	n-Amyl acetate	43	8.871	8.871	(1.084)	17652	5.00000	5.61(M)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39433	5.00000	5.09
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	30035	5.00000	5.23
167	Ethanol	45	2.082	2.082	(0.433)	3194	100.000	85.98(T)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	16499	10.0000	10.08(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	23589	100.000	126.13
174	tert-Amyl methyl ether	73	5.287	5.287	(1.098)	25759	5.00000	4.97(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	26328	5.00000	5.01
176	tert-Amyl alcohol	59	5.242	5.242	(1.089)	15819	100.000	100.54
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	51970	100.000	116.79
140	1,3-Butadiene	54	1.404	1.404	(0.292)	7715	5.00000	5.19
158	Dichlorofluoromethane	67	1.857	1.857	(0.386)	18765	5.00000	5.76(M)
182	Epichlorohydrin	57	6.633	6.633	(1.194)	2574	20.0000	17.69
M 94	1,2-Dichloroethylene (total)	96				14584	10.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	9215	5.00000	5.74
130	Ethyl Acetate	43	4.347	4.347	(0.903)	9401	5.00000	4.80(a)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	12024	5.00000	4.46(a)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	10359	5.00000	6.12
134	Cyclohexanone	55	9.156	9.156	(0.900)	7960	100.000	106.90(a)
185	Isoprene	39	2.157	2.157	(0.448)	2105	5.00000	5.70
188	Isopropyl acetate	43	5.287	5.287	(0.952)	23445	5.00000	4.85(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	7275	100.000	96.64
194	Acetaldehyde	44	1.460	1.460	(0.303)	9909	20.0000	17.17(M)
195	Methyl Amyl Ketone	43	8.871	8.871	(1.084)	17489	5.00000	6.26

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	3642	5.00000	5.26
202 Isobutylene	41	1.752	1.752 (0.364)	4808	5.00000	4.86(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.951	5.951	(1.236)	19798	5.00000	4.73(a)
163 Butyl methacrylate	41	9.651	9.651	(0.949)	10675	5.00000	5.32
159 Propylene oxide	43	2.202	2.202	(0.457)	1627	10.0000	10.55
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5129	5.00000	4.60(a)

QC Flag Legend

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


Y (x10^5)
Min
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Trichlorofluoromethane
-Diethyl ether+
-1,1-Dichloroethene+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
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Chlorobenzene-d5+
-o-Xylene+
-Methyl Amyl Ketone+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-Butyl Methacrylate
-alpha-Methylstyrene
-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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Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1

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LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

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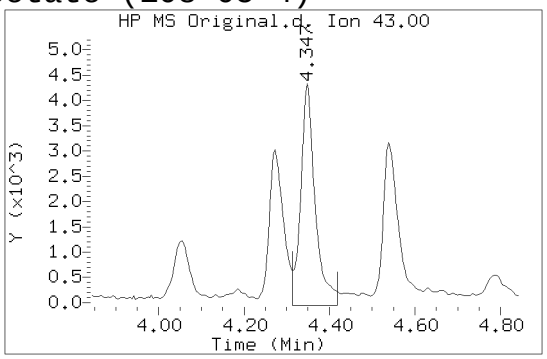

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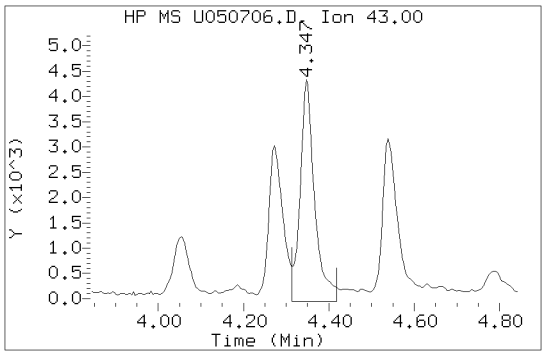

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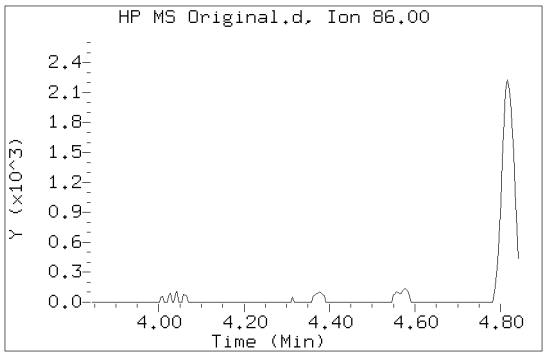

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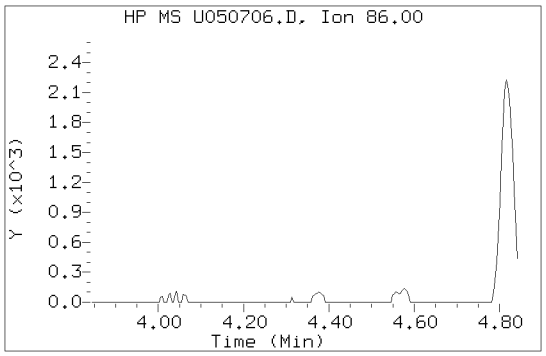

Acrolein (107-02-8)

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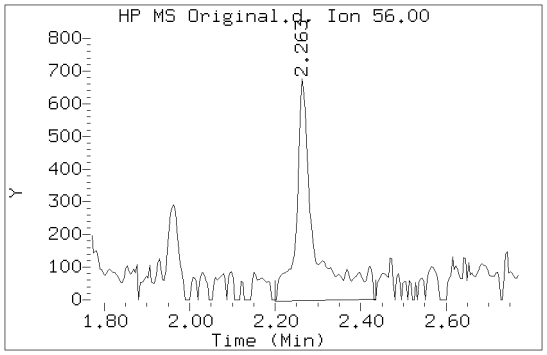

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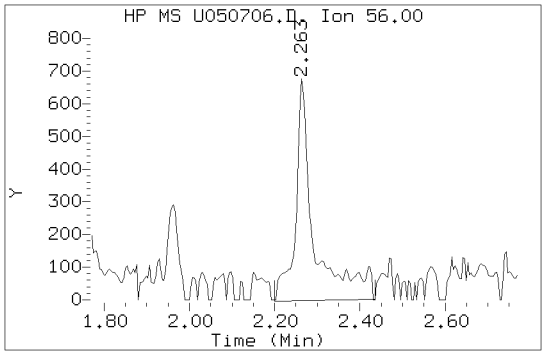

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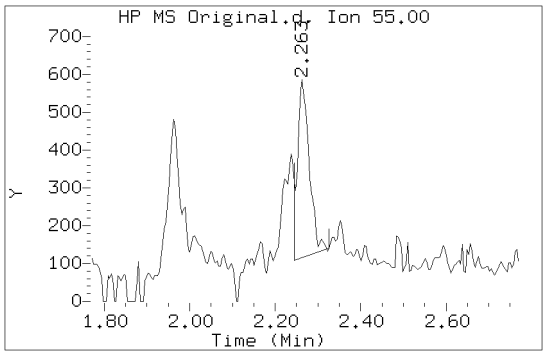

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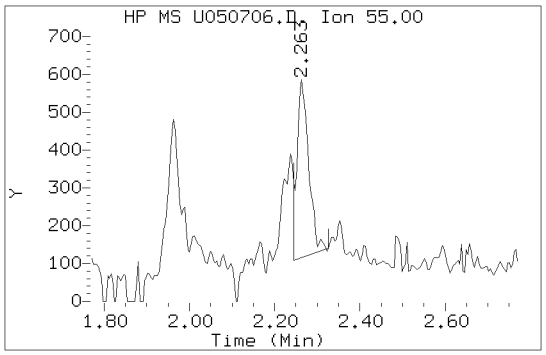

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LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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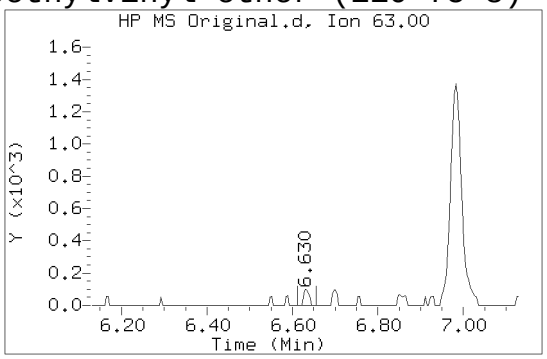

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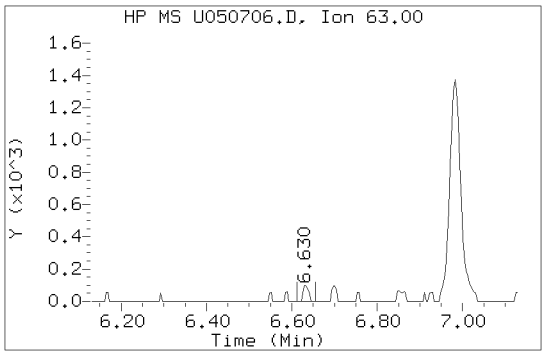

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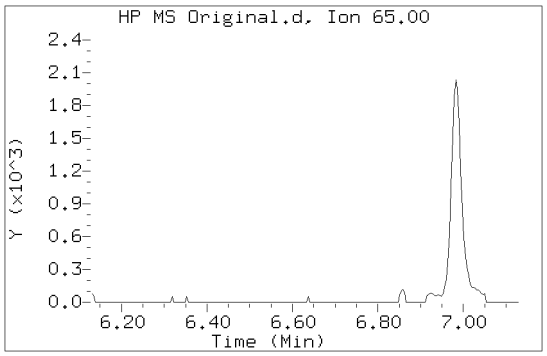

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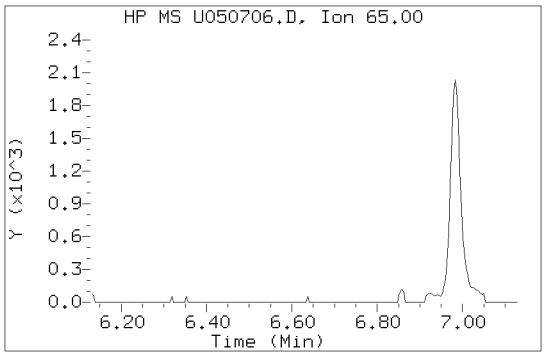

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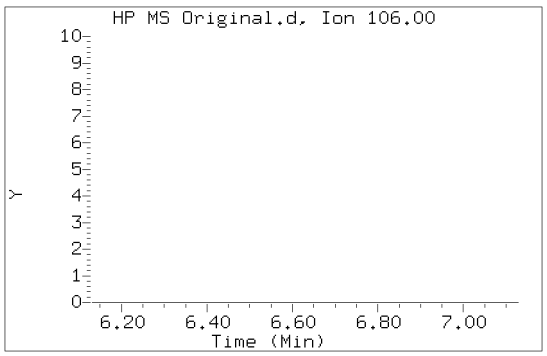

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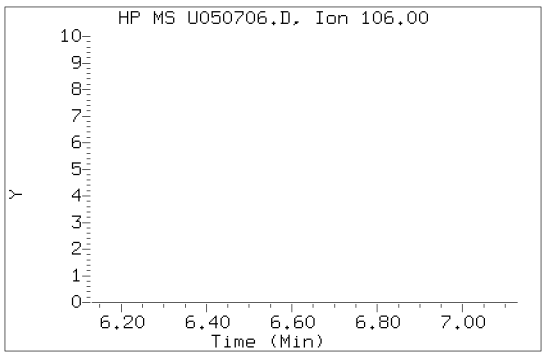

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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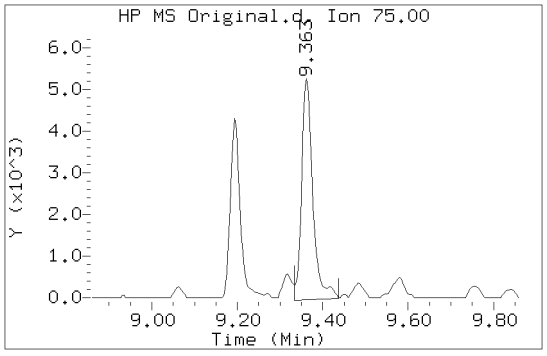

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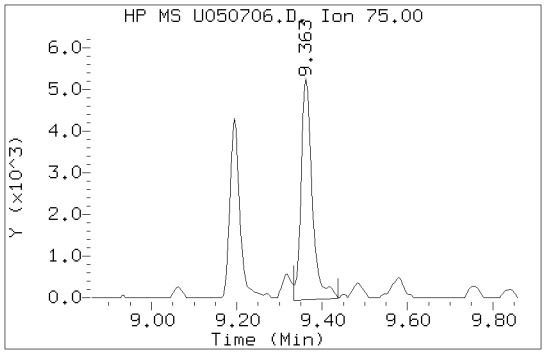

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InstruID : VOA9.i
LabSampID : VSTD005

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

Reason Code:

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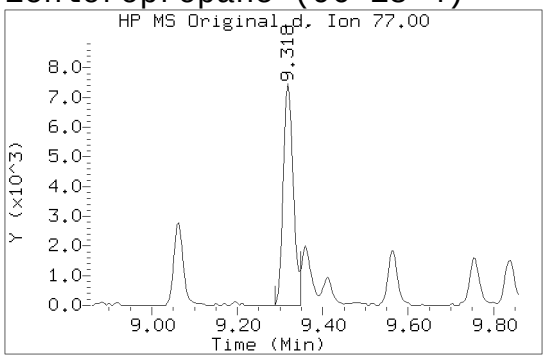

AFTER

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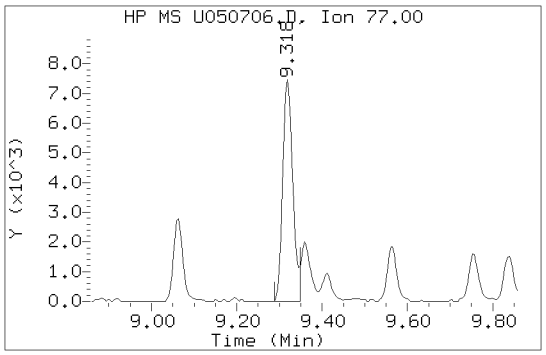
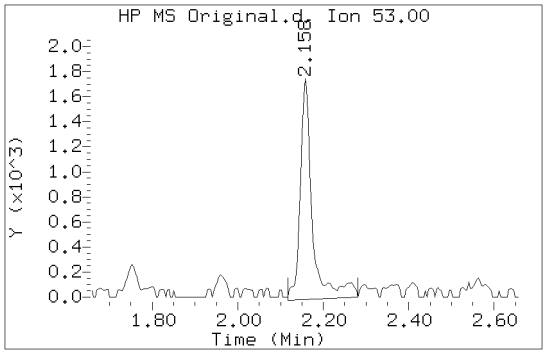


Chloroprene (126-99-8)

Reason Code:

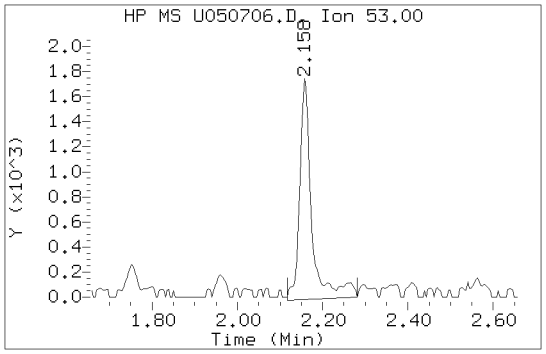
BEFORE

MASS
53
AREA
3544
HEIGHT
1763
07-May-2024
14:14
firat
tastan



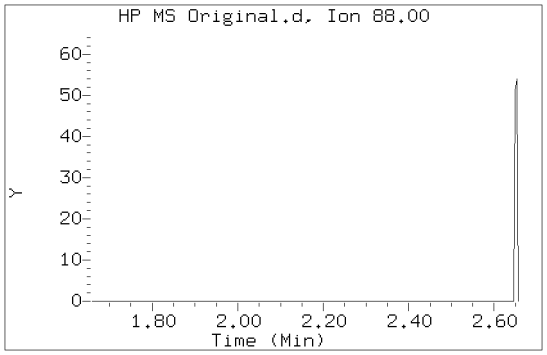
AFTER

MASS
53
AREA
3544
HEIGHT
1763
28-May-2024
10:32
firat



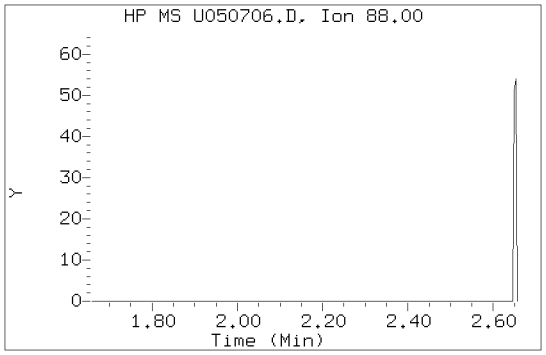
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

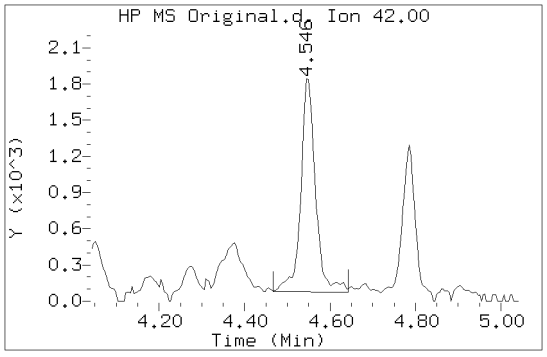


Tetrahydrofuran (109-99-9)

Reason Code:

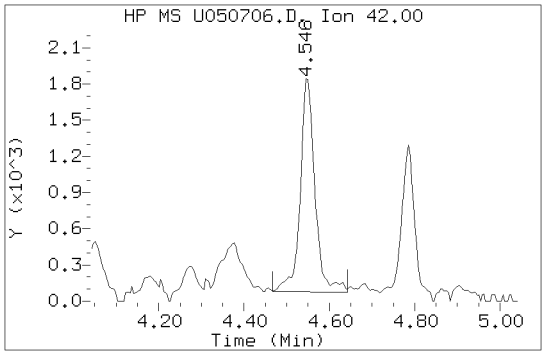
BEFORE

MASS
42
AREA
4287
HEIGHT
1764
07-May-2024
14:14
firat
tastan



AFTER

MASS
42
AREA
4287
HEIGHT
1764
28-May-2024
10:32
firat



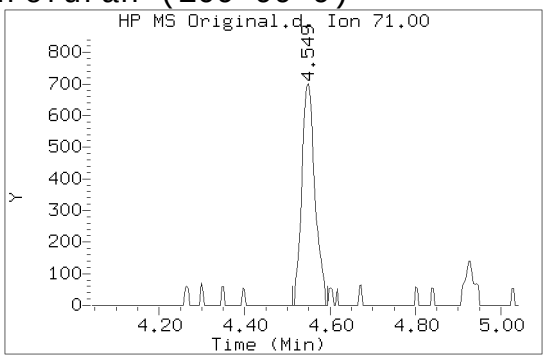
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

Tetrahydrofuran (109-99-9)

Reason Code:

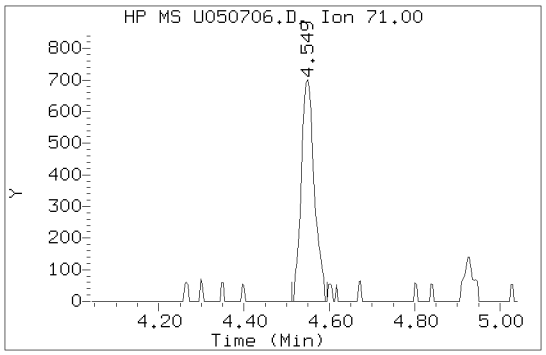
BEFORE

MASS
71
AREA
1519
HEIGHT
701
07-May-2024
14:14
firat
tastan



AFTER

MASS
71
AREA
1519
HEIGHT
701
28-May-2024
10:32
firat

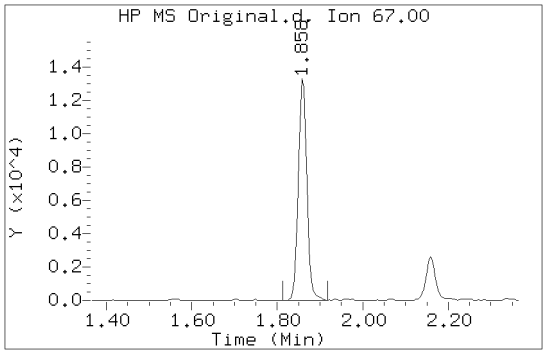


Dichlorofluoromethane (75-43-4)

Reason Code:

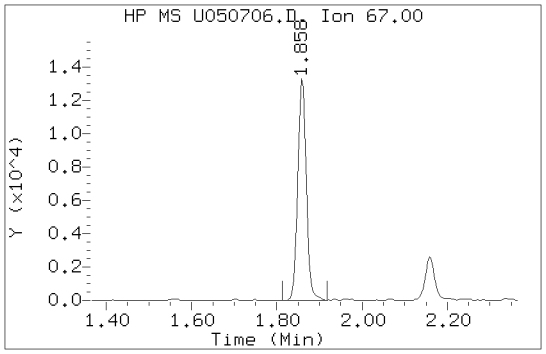
BEFORE

MASS
67
AREA
18765
HEIGHT
13315
07-May-2024
14:14
firat
tastan



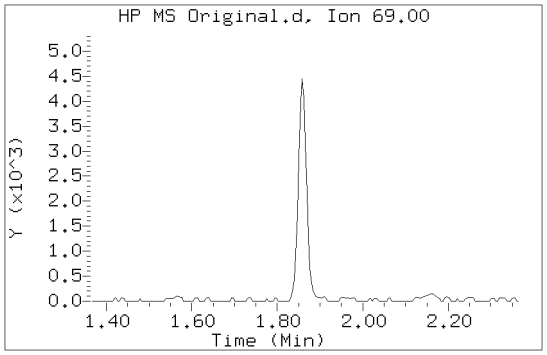
AFTER

MASS
67
AREA
18765
HEIGHT
13315
28-May-2024
10:32
firat



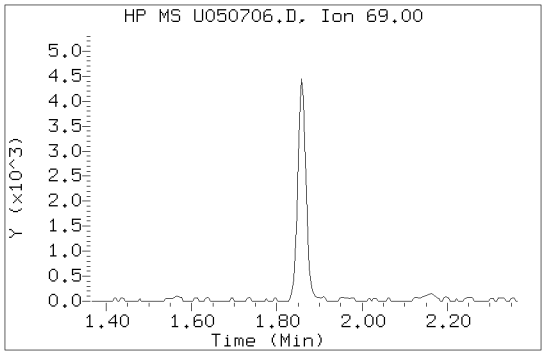
BEFORE

MASS
69
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



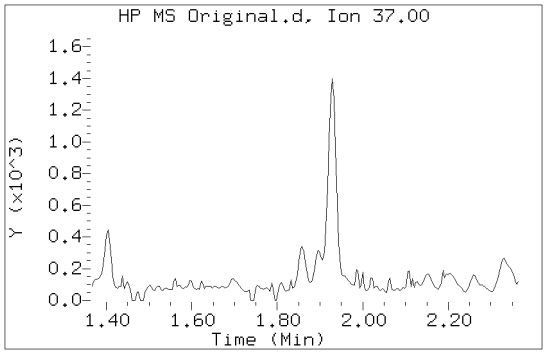
AFTER

MASS
69
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



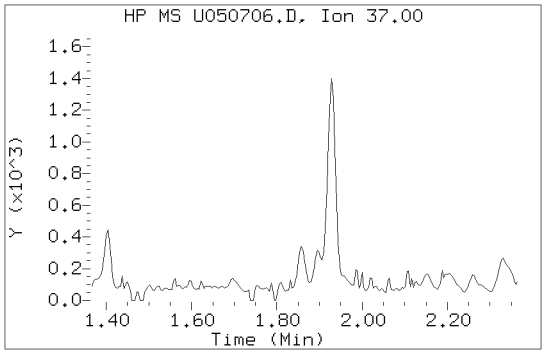
BEFORE

MASS
37
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



AFTER

MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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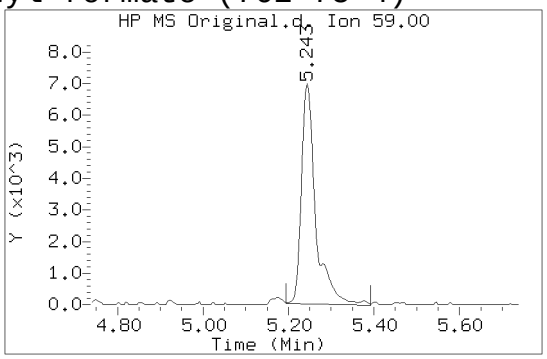
Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

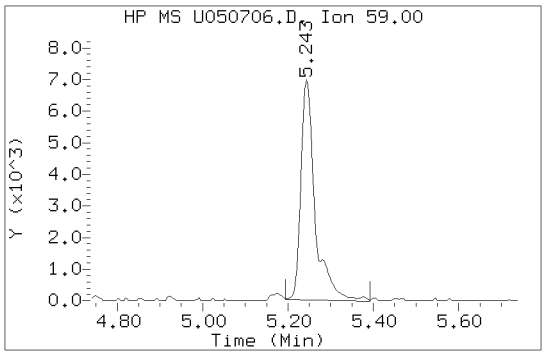
BEFORE

MASS
59
AREA
16499
HEIGHT
6961
07-May-2024
14:14
firat
tastan



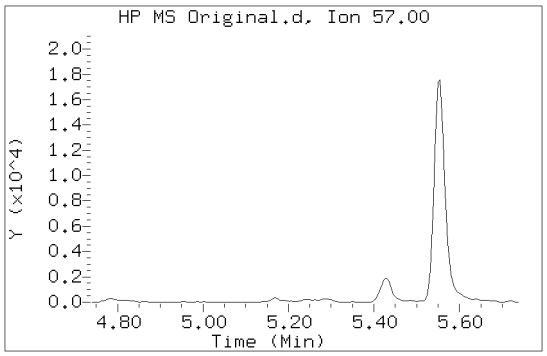
AFTER

MASS
59
AREA
16499
HEIGHT
6961
28-May-2024
10:32
firat



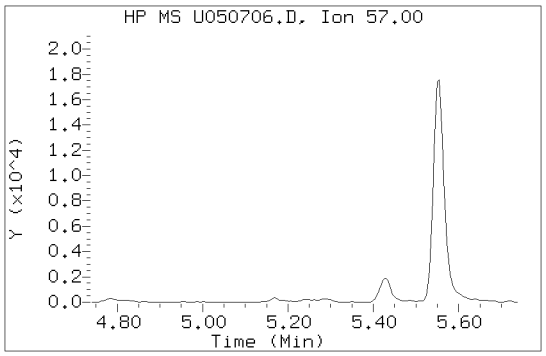
BEFORE

MASS
57
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



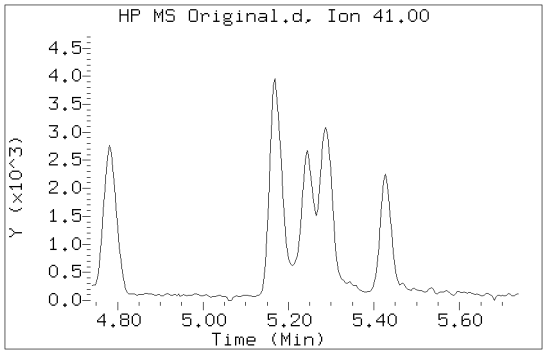
AFTER

MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



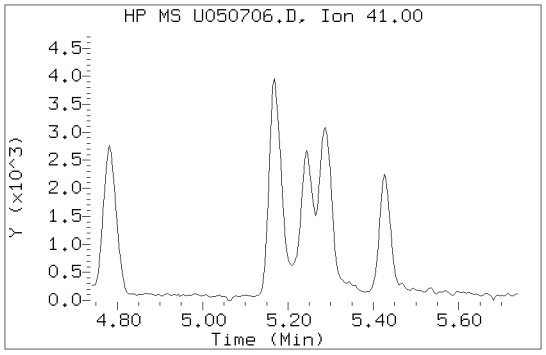
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

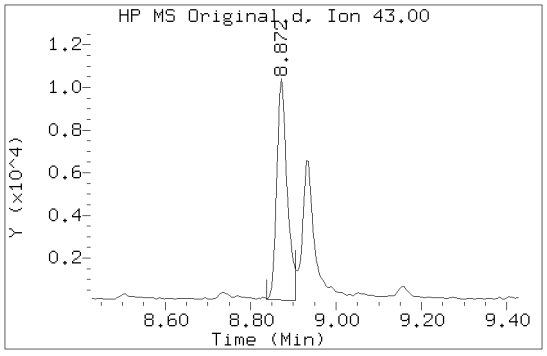


n-Amyl acetate (628-63-7)

Reason Code:

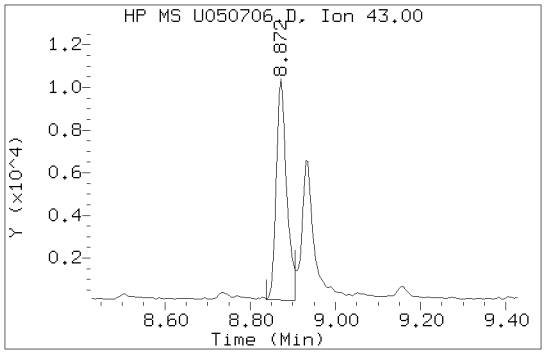
BEFORE

MASS
43
AREA
17652
HEIGHT
10385
07-May-2024
14:14
firat
tastan



AFTER

MASS
43
AREA
17652
HEIGHT
10385
28-May-2024
10:32
firat

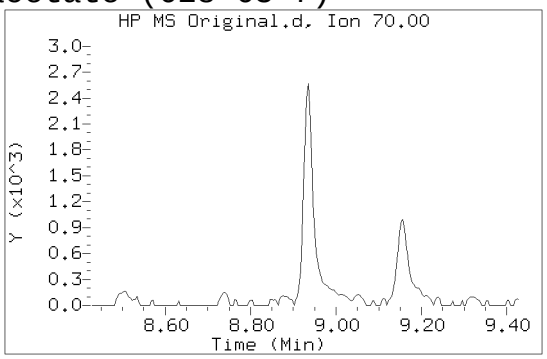


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

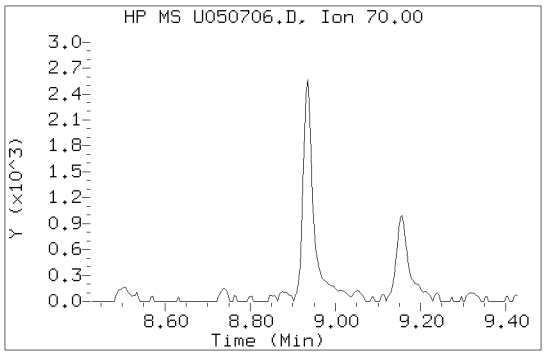
n-Amyl acetate (628-63-7)

Reason Code:

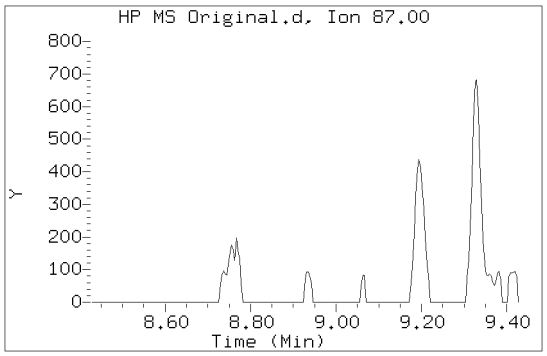
BEFORE
MASS
70
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



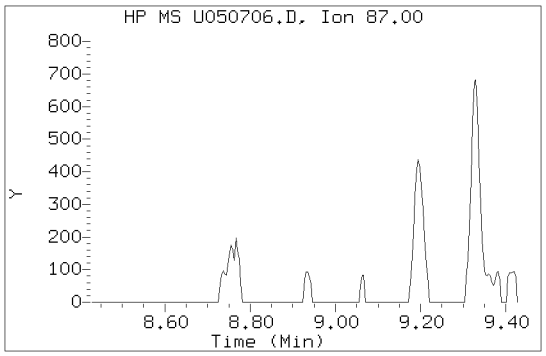
AFTER
MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
87
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



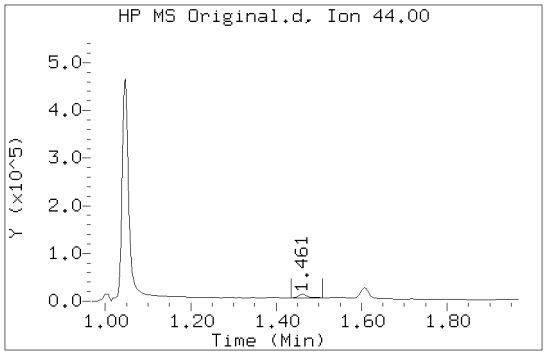
AFTER
MASS
87
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



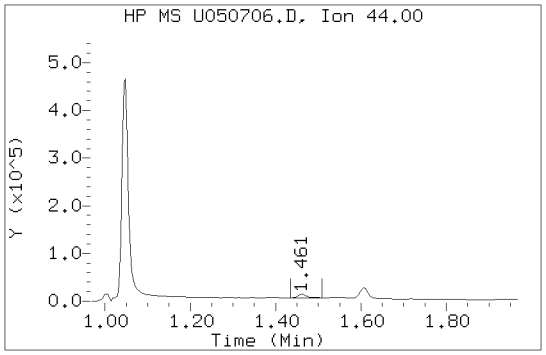
Acetaldehyde (75-07-0)

Reason Code:

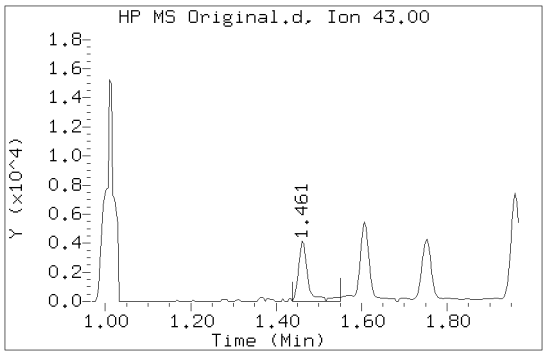
BEFORE
MASS
44
AREA
9909
HEIGHT
7506
07-May-2024
14:14
firat
tastan



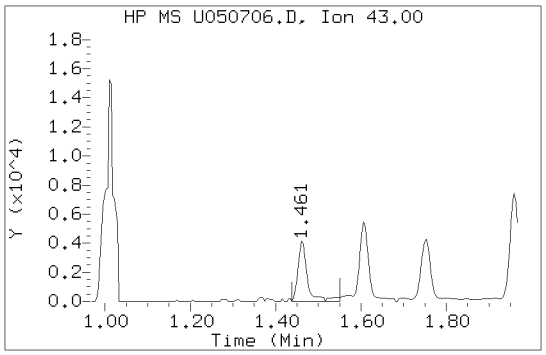
AFTER
MASS
44
AREA
9909
HEIGHT
7506
28-May-2024
10:32
firat



BEFORE
MASS
43
AREA
6570
HEIGHT
4145
07-May-2024
14:14
firat
tastan



AFTER
MASS
43
AREA
6570
HEIGHT
4145
28-May-2024
10:32
firat



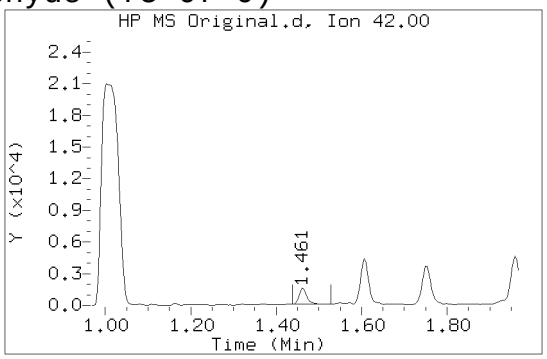
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

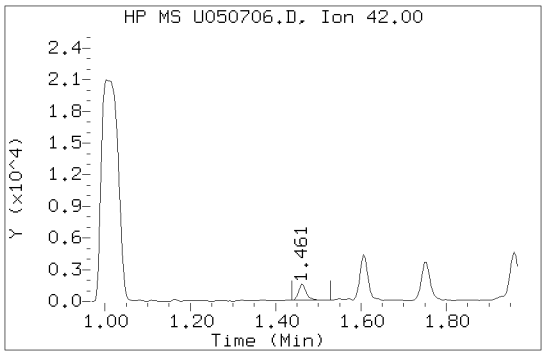
BEFORE

MASS
42
AREA
1931
HEIGHT
1522
07-May-2024
14:14
firat
tastan



AFTER

MASS
42
AREA
1931
HEIGHT
1522
28-May-2024
10:32
firat

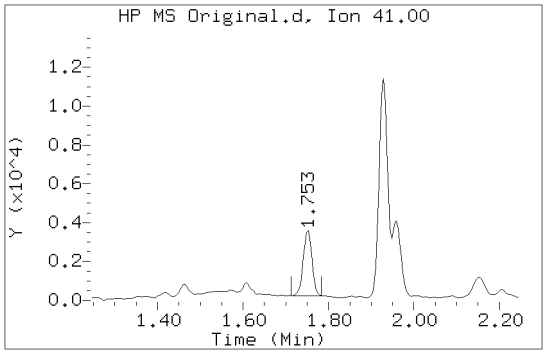


Isobutylene (115-11-7)

Reason Code:

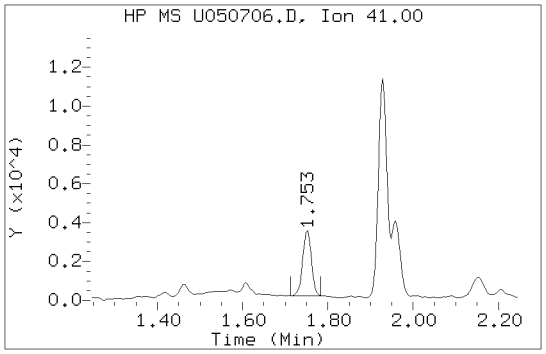
BEFORE

MASS
41
AREA
4808
HEIGHT
3364
07-May-2024
14:14
firat
tastan



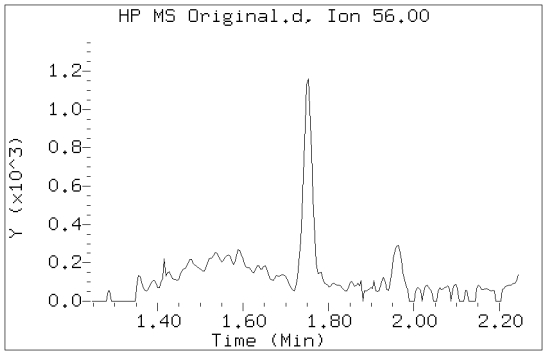
AFTER

MASS
41
AREA
4808
HEIGHT
3364
28-May-2024
10:32
firat



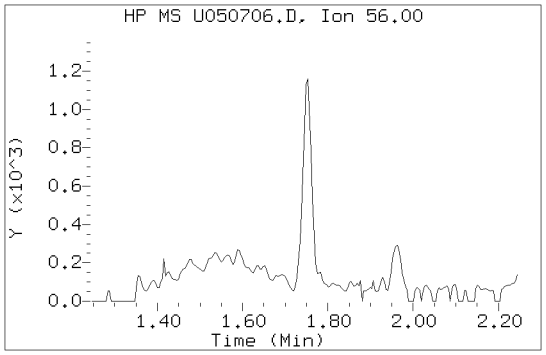
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



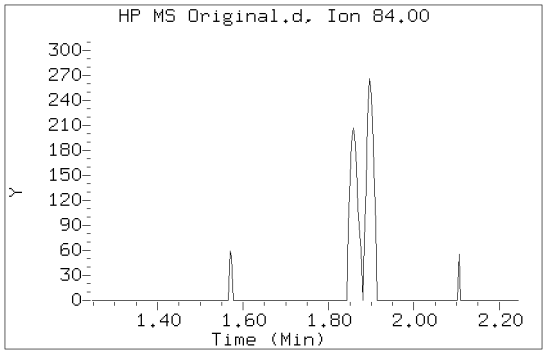
AFTER

MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



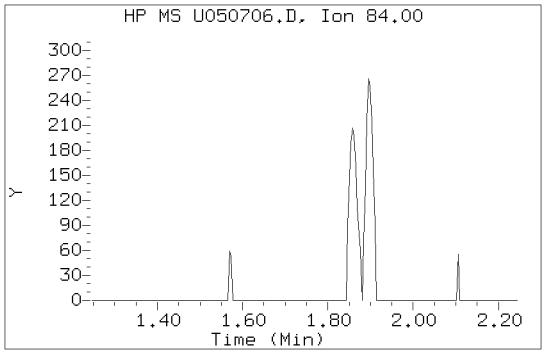
BEFORE

MASS
84
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



AFTER

MASS
84
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 07-MAY-2024 13:53
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:31 Cal File: U050706.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: 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)	234792	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	28317	20.0000	20.94
3 Chloromethane	50	1.295	1.295	(0.269)	40519	20.0000	21.76
4 Propionitrile	54	4.335	4.335	(0.900)	64070	200.000	211.94(a)
5 Vinyl Chloride	62	1.370	1.370	(0.285)	38946	20.0000	21.01
6 Bromomethane	94	1.610	1.610	(0.334)	22087	20.0000	22.31
7 Chloroethane	64	1.693	1.693	(0.352)	27424	20.0000	21.38
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	46111	20.0000	21.20
9 Acrolein	56	2.259	2.259	(0.469)	3583	40.0000	37.92
10 Acetone	43	2.405	2.405	(0.499)	26744	40.0000	42.33
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	25623	20.0000	20.94
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	101788	400.000	410.91(a)
13 Acetonitrile	39	2.667	2.667	(0.554)	50386	200.000	216.44(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	120218	20.0000	20.25(a)
15 Iodomethane	142	2.465	2.465	(0.512)	56119	40.0000	40.30
16 Acrylonitrile	53	3.061	3.061	(0.636)	35349	40.0000	43.96
17 Methylene Chloride	84	2.787	2.787	(0.579)	36574	20.0000	21.45
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	108581	20.0000	19.82
19 Carbon Disulfide	76	2.517	2.517	(0.523)	149014	40.0000	40.37
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	29100	20.0000	21.12

21 Vinyl Acetate	43	4.339	4.339 (0.901)	41266	40.0000	40.89
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	55860	20.0000	21.19

	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)	11443	20.0000	20.97(M)
24	2-Butanone	43	4.264	4.264	(0.886)	29664	40.0000	39.99
25	Methacrylonitrile	41	4.493	4.493	(0.933)	25619	20.0000	20.03(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	32424	20.0000	19.78
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	32759	20.0000	20.67
28	Chloroform	83	4.568	4.568	(0.949)	53401	20.0000	19.77
29	Bromochloromethane	128	4.467	4.467	(0.928)	16792	20.0000	21.41
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	39563	20.0000	22.26
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	39620	20.0000	20.52
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	38925	20.0000	19.63
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	45108	20.0000	20.10
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	31953	20.0000	20.21
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	50052	20.0000	23.03
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	344351	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	122880	20.0000	19.89
38	Trichloroethene	130	5.786	5.786	(1.043)	30896	20.0000	20.97
39	Bromodichloromethane	83	6.277	6.277	(1.131)	34059	20.0000	19.43
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	17250	20.0000	21.07(a)
41	2-Chloroethylvinyl ether	63	6.633	6.633	(1.195)	741	40.0000	54.79(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	32375	20.0000	20.13
43	2-Nitropropane	43	6.506	6.506	(1.351)	8230	20.0000	17.90
44	Dibromomethane	93	6.116	6.116	(1.102)	20084	20.0000	19.82
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	70632	40.0000	40.09
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	38616	20.0000	18.96
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	311564	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	148038	20.0000	22.54
49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	52928	20.0000	20.99(a)
50	Toluene	91	6.978	6.978	(0.853)	130209	20.0000	21.16
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	30455	20.0000	18.57
52	2-Hexanone	43	7.593	7.593	(0.928)	44949	40.0000	37.45
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	25563	20.0000	20.01
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	54559	20.0000	20.29
55	Dibromochloromethane	129	7.690	7.690	(0.940)	26478	20.0000	18.99
56	Tetrachloroethene	164	7.454	7.454	(0.911)	24971	20.0000	21.76
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	29624	20.0000	20.68
58	1-Chlorohexane	55	8.196	8.196	(1.477)	28952	20.0000	19.70
59	Chlorobenzene	112	8.208	8.208	(1.003)	84826	20.0000	19.83
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26698	20.0000	19.91
61	Ethylbenzene	106	8.305	8.305	(1.015)	40912	20.0000	20.26
62	m,p-Xylenes	106	8.406	8.406	(1.027)	104201	40.0000	42.68
63	o-Xylene	106	8.748	8.748	(1.069)	51418	20.0000	21.08
64	Styrene	104	8.763	8.763	(1.071)	87930	20.0000	21.33
66	Bromoform	173	8.916	8.916	(1.089)	15221	20.0000	18.05
67	Isopropylbenzene	105	9.062	9.062	(1.107)	126322	20.0000	21.54
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	44003	20.0000	21.12
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	54594	20.0000	22.38
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165887	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	40591	20.0000	19.21(M)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8154	20.0000	18.78(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	143405	20.0000	21.45
74	Bromobenzene	156	9.317	9.317	(0.916)	36033	20.0000	20.01
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	103284	20.0000	21.38

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	91911	20.0000	20.33
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	106423	20.0000	20.91

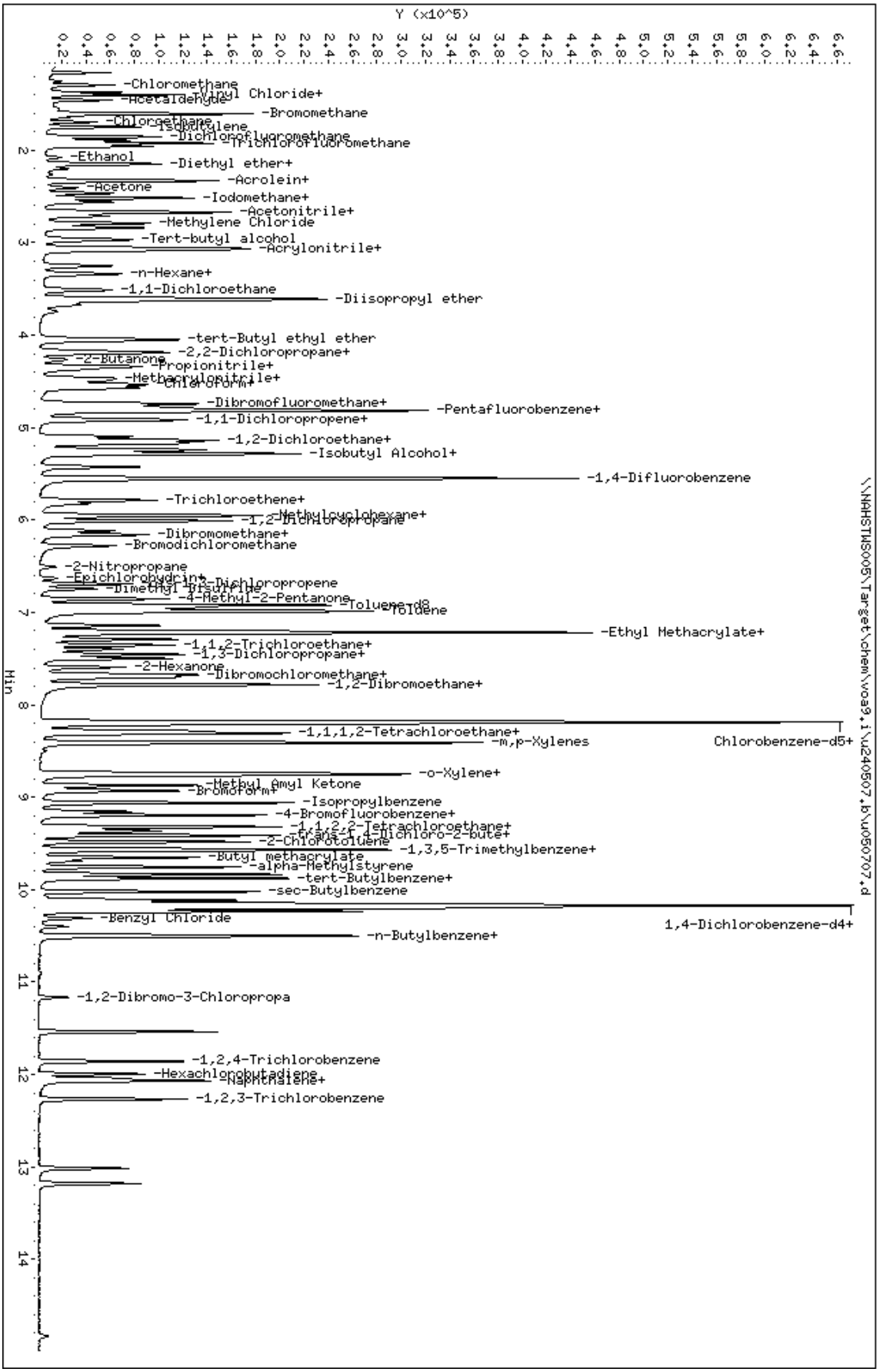
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	87524	20.0000	21.58
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.972)	103843	20.0000	21.95
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	113345	20.0000	21.21
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	101637	20.0000	21.83
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	62887	20.0000	19.97
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	65701	20.0000	20.49
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26428	20.0000	16.61
87	n-Butylbenzene	91	10.491	10.491	(1.032)	85646	20.0000	20.15
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	64478	20.0000	20.94
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	4254	20.0000	17.29
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	37095	20.0000	19.94
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	16202	20.0000	20.15
92	Naphthalene	128	12.065	12.065	(1.187)	95694	20.0000	19.00
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	37303	20.0000	19.95
146	Methyl acetate	43	2.708	2.708	(0.563)	59820	20.0000	21.71
138	Freon TF	101	2.334	2.334	(0.485)	26976	20.0000	21.59
141	Cyclohexane	56	4.781	4.781	(0.993)	45991	20.0000	19.98
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	16410	40.0000	42.37
147	Methylcyclohexane	55	5.947	5.947	(1.072)	91463	20.0000	21.48
135	1,4-Dioxane	88	6.165	6.165	(1.280)	10394	400.000	404.76
132	n-Butanol	56	5.824	5.824	(1.209)	21995	400.000	349.14(a)
136	n-Hexane	57	3.338	3.338	(0.693)	31596	20.0000	20.82
139	Diethyl ether	59	2.142	2.142	(0.445)	32066	20.0000	19.46
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	76161	400.000	422.94
149	Isopropyl alcohol	45	2.558	2.558	(0.531)	63675	400.000	425.30
152	Amyl alcohol	42	7.398	7.398	(0.904)	25462	400.000	391.09
156	Diisopropyl ether	45	3.616	3.616	(0.751)	136954	20.0000	20.62
162	Butyl acrylate	55	8.733	8.733	(1.067)	58996	20.0000	17.40
187	n-Amyl acetate	43	8.931	8.931	(1.091)	59164	20.0000	18.47
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	173400	20.0000	21.13
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	134258	20.0000	21.80
167	Ethanol	45	2.079	2.079	(0.432)	11839	400.000	418.73
172	tert-Butyl formate	59	5.239	5.239	(1.088)	63262	40.0000	37.74
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	88345	400.000	422.18
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	108804	20.0000	20.52
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	108057	20.0000	20.08
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	63345	400.000	393.14
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	230659	400.000	394.67
140	1,3-Butadiene	54	1.400	1.400	(0.291)	31766	20.0000	20.88
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	72332	20.0000	21.70
182	Epichlorohydrin	57	6.630	6.630	(1.195)	10322	80.0000	70.20
M 94	1,2-Dichloroethylene (total)	96				61859	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	47046	20.0000	19.62
130	Ethyl Acetate	43	4.339	4.339	(0.901)	41266	20.0000	20.59
131	Methyl Acrylate	55	4.369	4.369	(0.907)	49034	20.0000	20.36
189	n-Butyl acetate	43	7.705	7.705	(0.941)	51789	20.0000	18.49
134	Cyclohexanone	55	9.152	9.152	(0.900)	31021	400.000	394.36(a)
185	Isoprene	39	2.154	2.154	(0.447)	8379	20.0000	22.16
188	Isopropyl acetate	43	5.284	5.284	(0.952)	102299	20.0000	20.97
150	Allyl alcohol	57	3.338	3.338	(0.693)	31596	400.000	416.48
194	Acetaldehyde	44	1.456	1.456	(0.303)	33458	80.0000	82.00(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	76437	20.0000	19.01

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	17116	20.0000	16.99
202 Isobutylene	41	1.745	1.745 (0.362)	20583	20.0000	21.34(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	91463	20.0000	21.33
163 Butyl methacrylate	41	9.647	9.647	(0.949)	42350	20.0000	19.71
159 Propylene oxide	43	2.199	2.199	(0.457)	6759	40.0000	42.81
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	30339	20.0000	16.94

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: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D
Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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07-May-2024
14:16
firat
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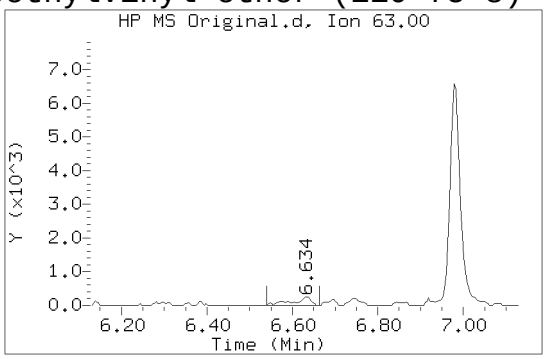

AFTER

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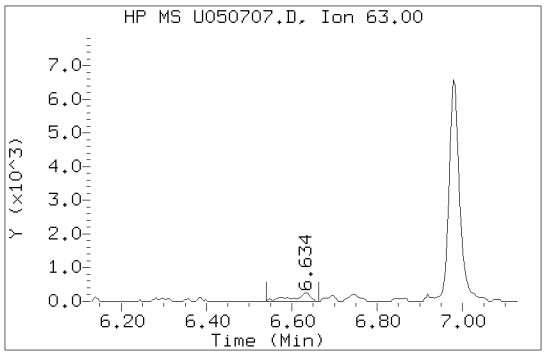
28-May-2024
10:32
firat



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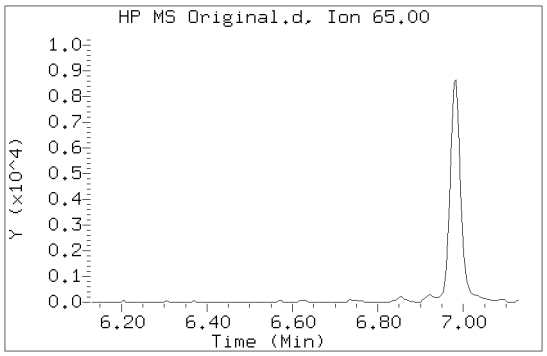

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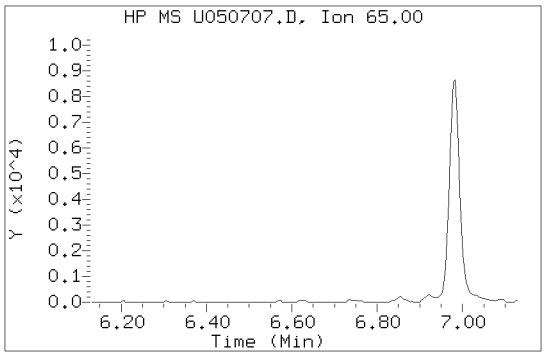

BEFORE

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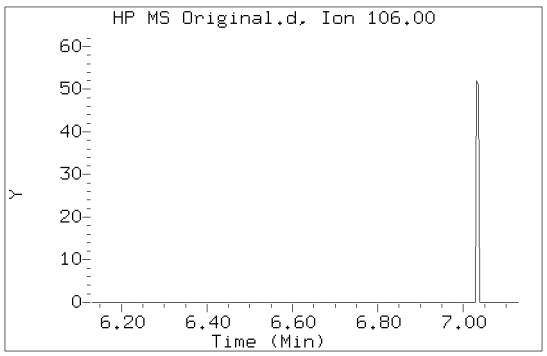

AFTER

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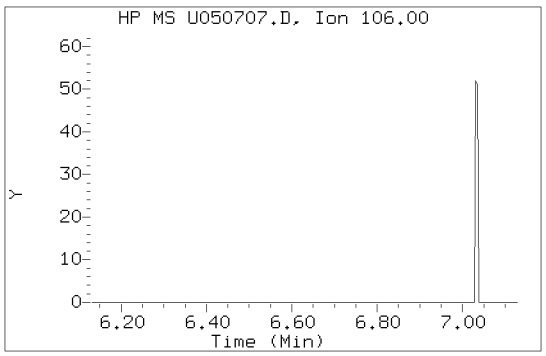

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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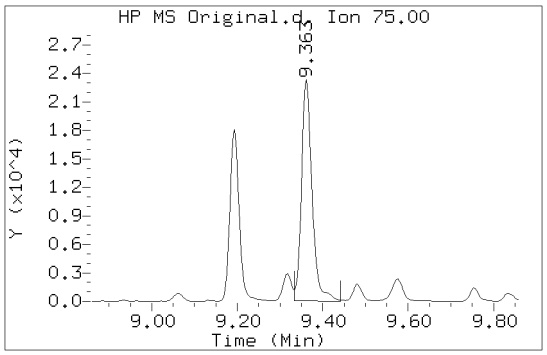

AFTER

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28-May-2024
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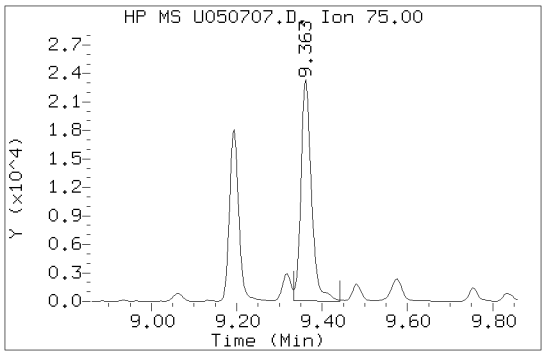

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Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

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

Reason Code:

BEFORE

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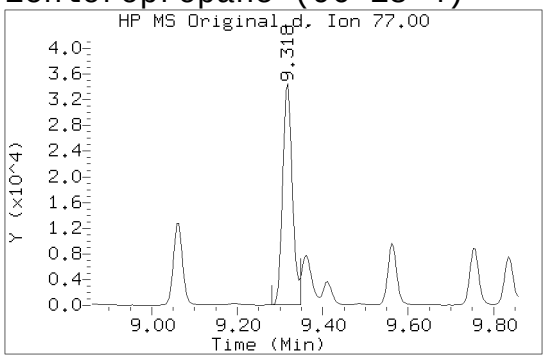
07-May-2024
14:16
firat
tastan



AFTER

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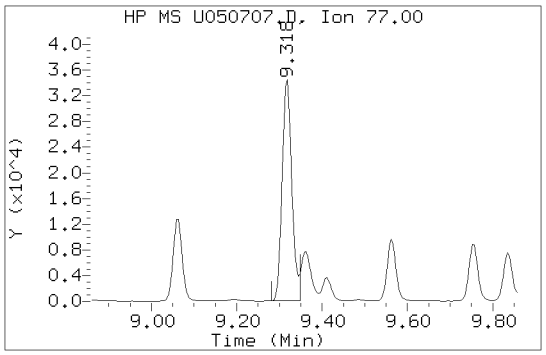

Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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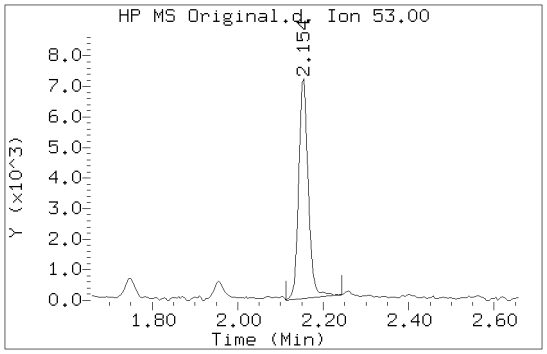
07-May-2024
14:16
firat
tastan



AFTER

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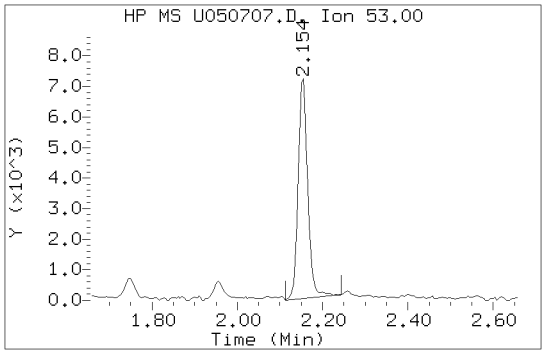

BEFORE

MASS
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HEIGHT
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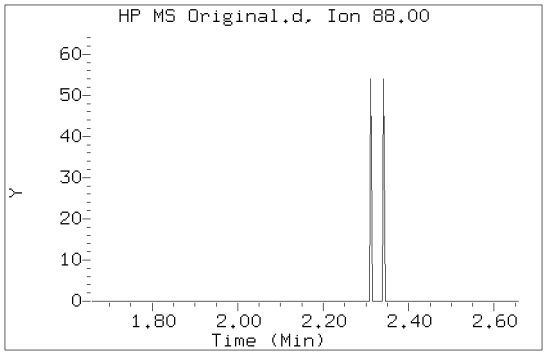
07-May-2024
14:16
firat
tastan



AFTER

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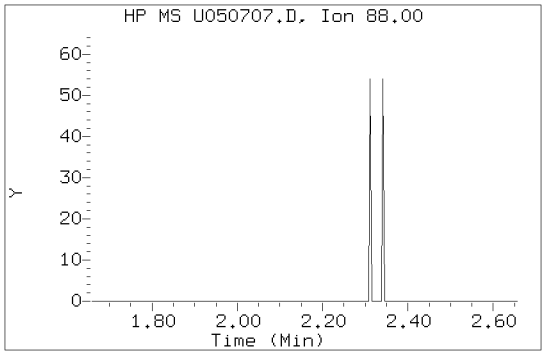

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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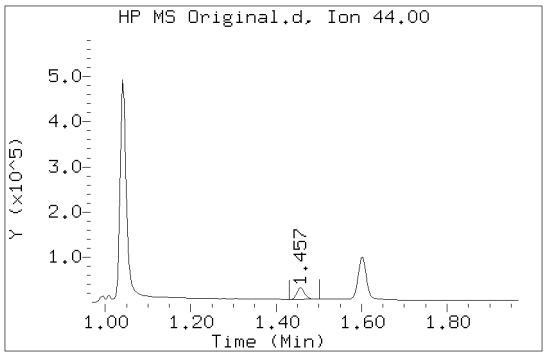
07-May-2024
14:16
firat
tastan



AFTER

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28-May-2024
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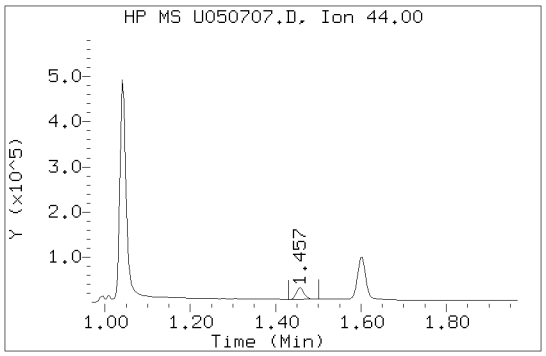

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Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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07-May-2024
14:16
firat
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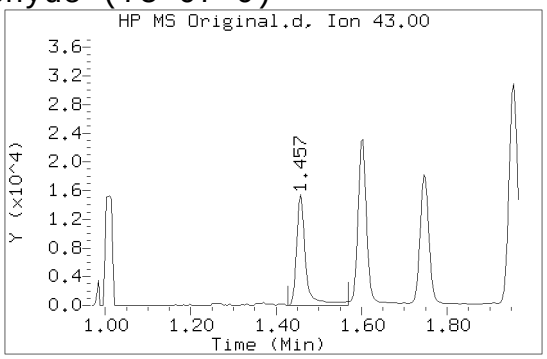

AFTER

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28-May-2024
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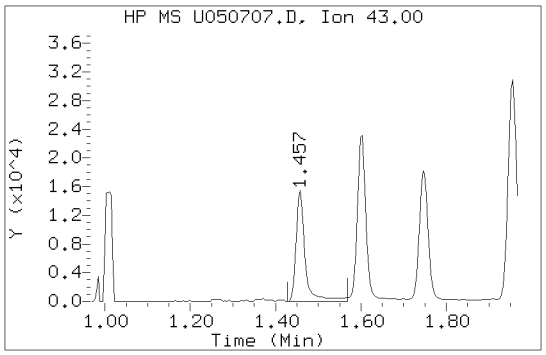

BEFORE

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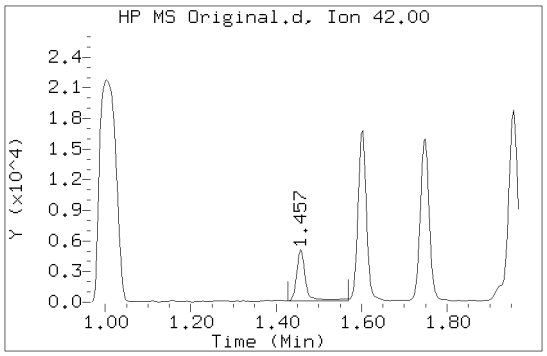
07-May-2024
14:16
firat
tastan



AFTER

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AREA
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28-May-2024
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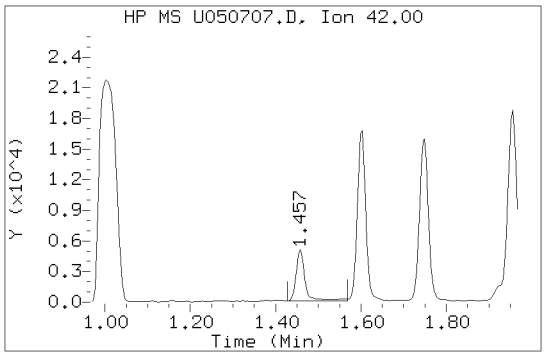

Isobutylene (115-11-7)

Reason Code:

BEFORE

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07-May-2024
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firat
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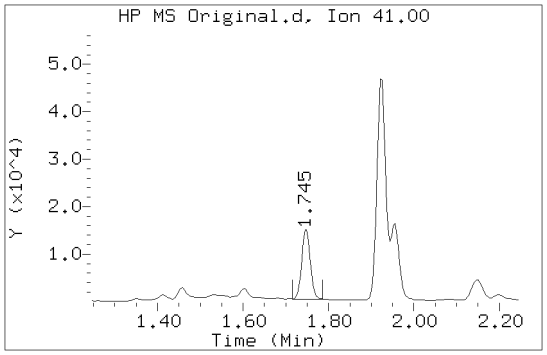

AFTER

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10:32
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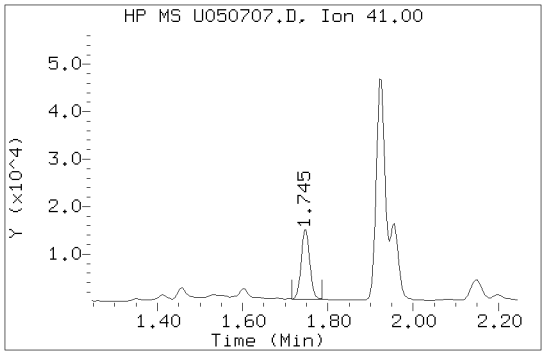

BEFORE

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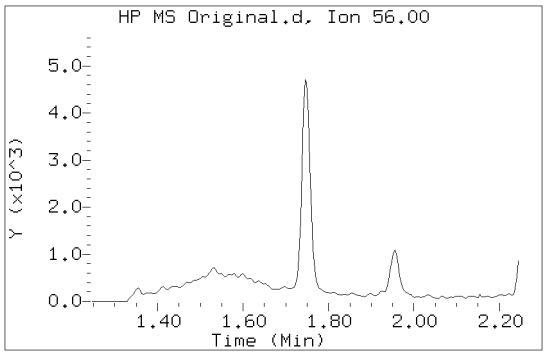

AFTER

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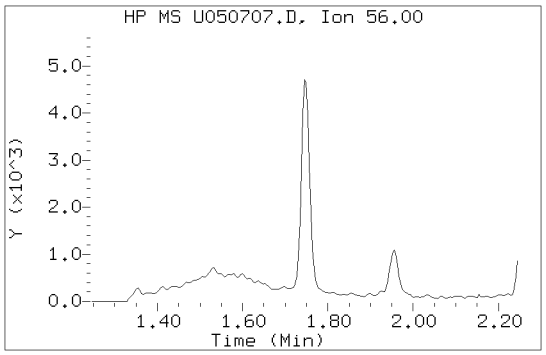
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
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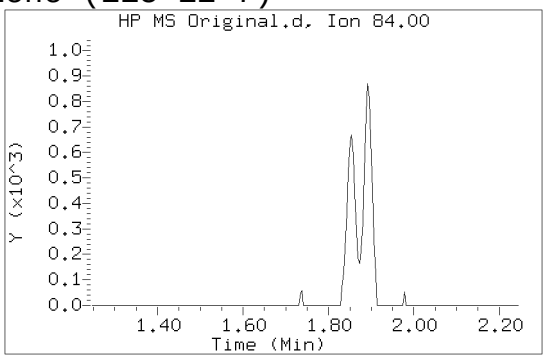
07-May-2024
14:16
firat
tastan



AFTER

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10:32
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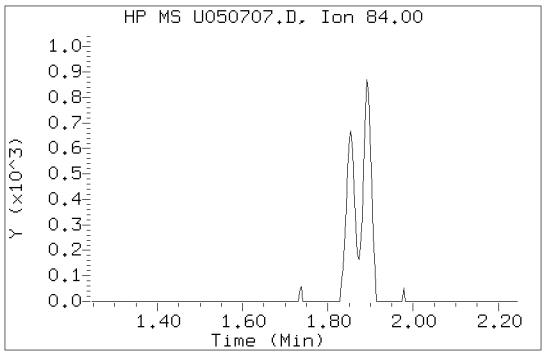


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 07-MAY-2024 14:14
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:53 Cal File: U050707.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: 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	4.819	4.819	(1.000)	238532	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	65682	50.0000	47.26
3 Chloromethane	50	1.303	1.303	(0.270)	93298	50.0000	50.14
4 Propionitrile	54	4.339	4.339	(0.900)	157637	500.000	535.55
5 Vinyl Chloride	62	1.381	1.381	(0.287)	91141	50.0000	48.24
6 Bromomethane	94	1.618	1.618	(0.336)	45202	50.0000	45.69
7 Chloroethane	64	1.704	1.704	(0.354)	63297	50.0000	49.28
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	107161	50.0000	48.45
9 Acrolein	56	2.270	2.270	(0.471)	9057	100.000	103.88
10 Acetone	43	2.412	2.412	(0.501)	65536	100.000	109.01
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	60885	50.0000	49.00
12 Isobutyl Alcohol	43	5.288	5.288	(1.097)	257338	1000.00	1022.57
13 Acetonitrile	39	2.678	2.678	(0.556)	121023	500.000	511.72
14 Allyl Chloride	41	2.678	2.678	(0.556)	290935	50.0000	48.23
15 Iodomethane	142	2.472	2.472	(0.513)	151810	100.000	99.99
16 Acrylonitrile	53	3.072	3.072	(0.638)	84618	100.000	109.56
17 Methylene Chloride	84	2.798	2.798	(0.581)	80341	50.0000	49.73
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	264898	50.0000	47.61
19 Carbon Disulfide	76	2.525	2.525	(0.524)	361716	100.000	96.46
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	68664	50.0000	49.29

21 Vinyl Acetate	43	4.343	4.343 (0.901)	100825	100.000	98.35
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	130203	50.0000	48.99

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.165	2.165	(0.449)	27342	50.0000	50.00(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	74338	100.000	98.65
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	67748	50.0000	52.15(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	81912	50.0000	47.90
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	77684	50.0000	48.25
	28 Chloroform	83	4.575	4.575	(0.949)	126876	50.0000	46.25
	29 Bromochloromethane	128	4.474	4.474	(0.928)	39351	50.0000	50.39
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	90004	50.0000	52.52
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	96827	50.0000	49.36
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	91581	50.0000	45.41
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	105854	50.0000	46.38
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	78443	50.0000	47.58
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	111558	50.0000	54.36
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	350305	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	292812	50.0000	46.61
	38 Trichloroethene	130	5.790	5.790	(1.043)	72534	50.0000	48.20
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	88029	50.0000	49.37
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	45308	50.0000	54.48
	41 2-Chloroethylvinyl ether	63	6.626	6.626	(1.193)	1272	100.000	91.79(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	79295	50.0000	48.25
	43 2-Nitropropane	43	6.510	6.510	(1.351)	22643	50.0000	48.47
	44 Dibromomethane	93	6.120	6.120	(1.102)	48527	50.0000	47.08
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	184903	100.000	101.33
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	104989	50.0000	48.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	322713	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	338905	50.0000	51.93
	49 Ethyl Methacrylate	69	7.214	7.214	(1.299)	124790	50.0000	48.67
	50 Toluene	91	6.982	6.982	(0.853)	311225	50.0000	48.83
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84736	50.0000	47.52
	52 2-Hexanone	43	7.593	7.593	(0.928)	125048	100.000	94.62
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	60937	50.0000	46.05
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	132165	50.0000	47.45
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	71514	50.0000	45.59
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	57805	50.0000	48.34
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	72656	50.0000	48.97
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	68237	50.0000	47.20
	59 Chlorobenzene	112	8.208	8.208	(1.003)	199604	50.0000	45.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	67841	50.0000	46.01
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102266	50.0000	48.89
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	254622	100.000	100.69
	63 o-Xylene	106	8.748	8.748	(1.069)	127726	50.0000	50.57
	64 Styrene	104	8.763	8.763	(1.071)	222919	50.0000	52.22
	66 Bromoform	173	8.920	8.920	(1.090)	44718	50.0000	47.21
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	310584	50.0000	51.13
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	106801	50.0000	47.59
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	126399	50.0000	52.32
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176759	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	105365	50.0000	46.80
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	22286	50.0000	47.31
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	362536	50.0000	50.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	88057	50.0000	45.89
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	259682	50.0000	50.45

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	223680	50.0000	46.43
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	262351	50.0000	48.38

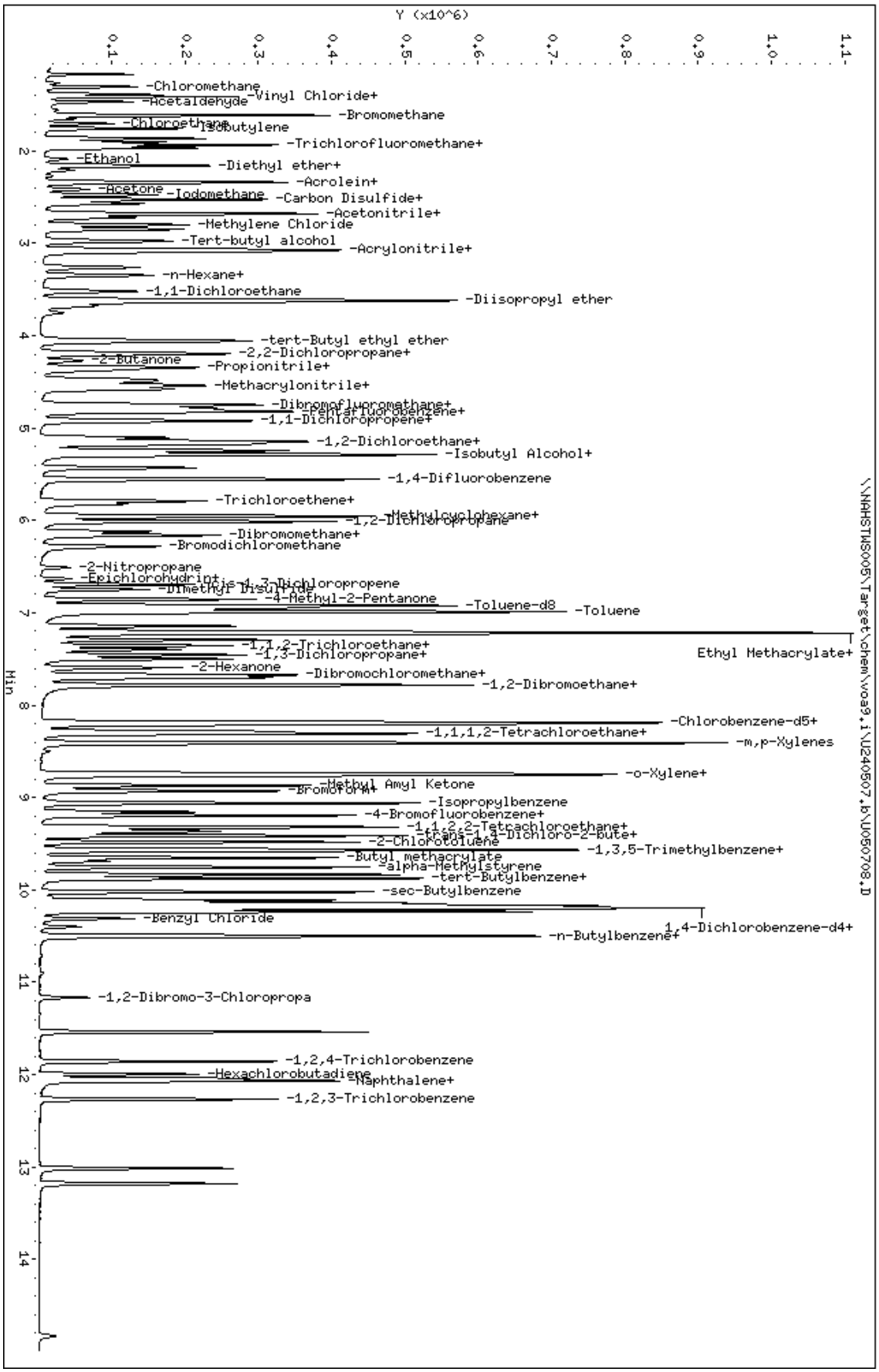
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	219120	50.0000	50.71
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	261666	50.0000	51.93
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	288116	50.0000	50.60
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	262120	50.0000	52.86
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	155219	50.0000	46.26
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	163595	50.0000	47.30
86	Benzyl Chloride	91	10.311	10.311	(1.260)	79658	50.0000	41.45
87	n-Butylbenzene	91	10.491	10.491	(1.032)	221359	50.0000	47.33
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	158544	50.0000	47.82
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	13266	50.0000	45.85
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	97480	50.0000	47.34
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	40317	50.0000	47.06
92	Naphthalene	128	12.065	12.065	(1.187)	265609	50.0000	46.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	95705	50.0000	48.05
146	Methyl acetate	43	2.720	2.720	(0.564)	138501	50.0000	51.83
138	Freon TF	101	2.341	2.341	(0.486)	61783	50.0000	48.68
141	Cyclohexane	56	4.785	4.785	(0.993)	105816	50.0000	45.57
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	40651	100.000	108.19
147	Methylcyclohexane	55	5.947	5.947	(1.071)	242533	50.0000	55.99
135	1,4-Dioxane	88	6.168	6.168	(1.280)	27674	1000.00	1084.45
132	n-Butanol	56	5.824	5.824	(1.208)	62763	1000.00	980.67
136	n-Hexane	57	3.346	3.346	(0.694)	75823	50.0000	48.85
139	Diethyl ether	59	2.150	2.150	(0.446)	80813	50.0000	48.28
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	186489	1000.00	1058.47
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	155054	1000.00	1064.13
152	Amyl alcohol	42	7.398	7.398	(0.904)	69820	1000.00	1007.04
156	Diisopropyl ether	45	3.627	3.627	(0.753)	333246	50.0000	49.39
162	Butyl acrylate	55	8.733	8.733	(1.067)	183116	50.0000	48.10
187	n-Amyl acetate	43	8.931	8.931	(1.091)	146554	50.0000	44.18
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	433675	50.0000	49.70
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	341282	50.0000	52.02
167	Ethanol	45	2.090	2.090	(0.434)	29675	1000.00	1093.34
172	tert-Butyl formate	59	5.243	5.243	(1.088)	162532	100.000	95.46
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	216329	1000.00	977.08
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	277814	50.0000	51.59
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	271744	50.0000	49.71
176	tert-Amyl alcohol	59	5.243	5.243	(1.088)	162532	1000.00	992.92
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	599037	1000.00	953.50
140	1,3-Butadiene	54	1.408	1.408	(0.292)	73101	50.0000	47.30
158	Dichlorofluoromethane	67	1.861	1.861	(0.386)	168487	50.0000	49.76
182	Epichlorohydrin	57	6.630	6.630	(1.194)	28933	200.000	193.43
M 94	1,2-Dichloroethylene (total)	96				146348	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	123916	50.0000	45.49
130	Ethyl Acetate	43	4.343	4.343	(0.901)	100825	50.0000	49.53
131	Methyl Acrylate	55	4.373	4.373	(0.907)	124639	50.0000	52.26
189	n-Butyl acetate	43	7.705	7.705	(0.941)	144160	50.0000	44.71
134	Cyclohexanone	55	9.152	9.152	(0.900)	83410	1000.00	998.47
185	Isoprene	39	2.165	2.165	(0.449)	19643	50.0000	51.14
188	Isopropyl acetate	43	5.288	5.288	(0.952)	257338	50.0000	51.86
150	Allyl alcohol	57	3.346	3.346	(0.694)	75823	1000.00	977.14
194	Acetaldehyde	44	1.468	1.468	(0.305)	85820	200.000	223.88(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	211223	50.0000	46.74

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	54839	50.0000	45.97
202 Isobutylene	41	1.756	1.756 (0.365)	49587	50.0000	51.04(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.234)	242533	50.0000	55.69
163 Butyl methacrylate	41	9.647	9.647	(0.949)	106004	50.0000	46.31
159 Propylene oxide	43	2.206	2.206	(0.458)	15232	100.000	94.96
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	101193	50.0000	47.98

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\U240507,b\U050708,D
Date : 07-MAY-2024 14:14
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

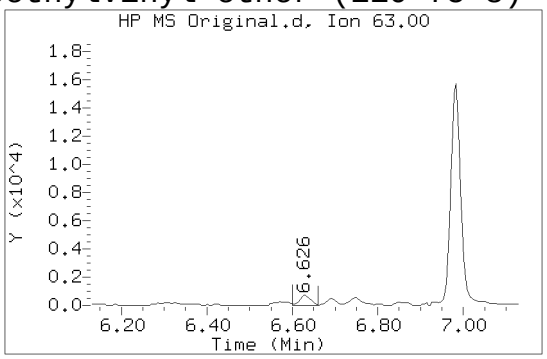
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
63
AREA
1272
HEIGHT
710
07-May-2024
16:08
firat
tastan



AFTER

MASS
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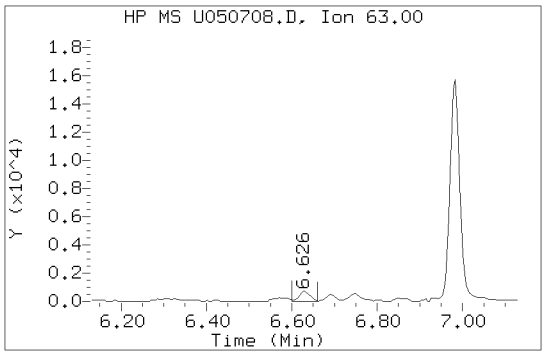
AREA
1272
HEIGHT
710
28-May-2024
10:32
firat



BEFORE

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HEIGHT
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07-May-2024
16:08
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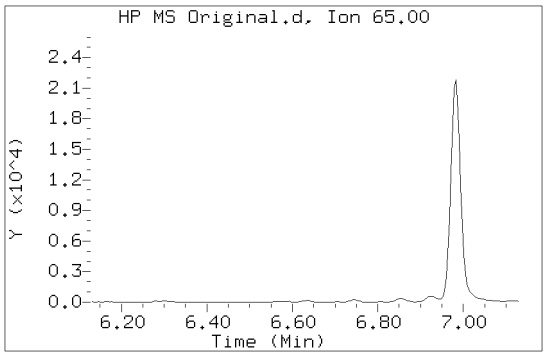

AFTER

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28-May-2024
10:32
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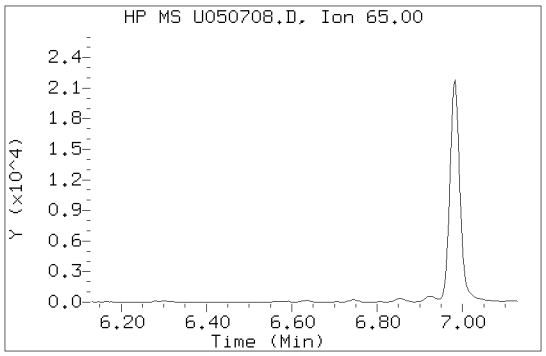

BEFORE

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AREA
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HEIGHT
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07-May-2024
16:08
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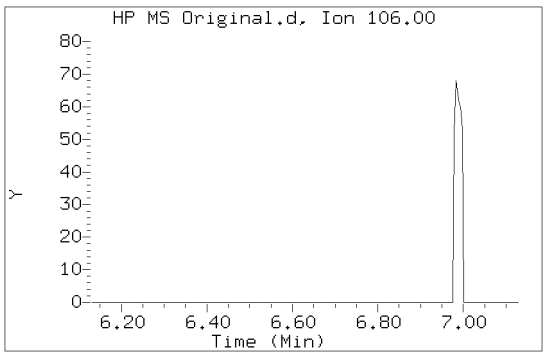

AFTER

MASS
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AREA
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HEIGHT
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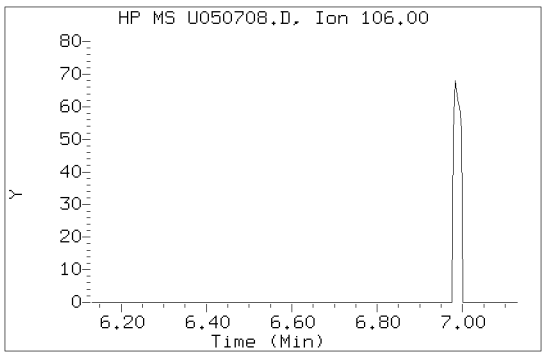
28-May-2024
10:32
firat



Chloroprene (126-99-8)

Reason Code:

BEFORE

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53
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HEIGHT
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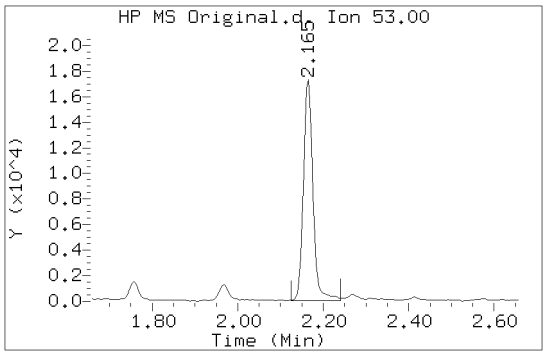
07-May-2024
16:08
firat
tastan



AFTER

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AREA
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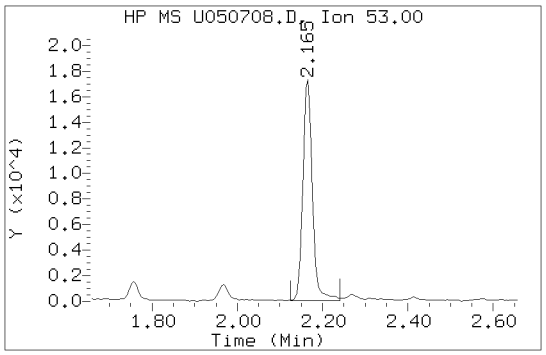
HEIGHT
17263
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

BEFORE
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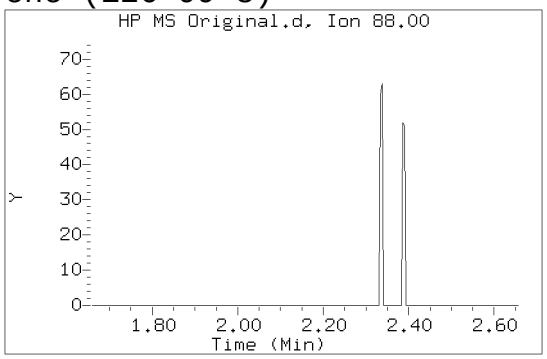
HEIGHT
0
07-May-2024
16:08
firat
tastan



AFTER
MASS
88
AREA
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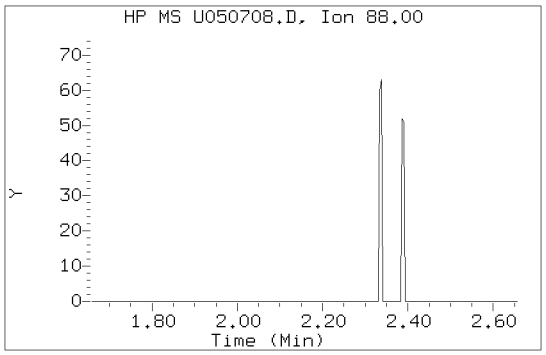
HEIGHT
0
28-May-2024
10:32
firat



Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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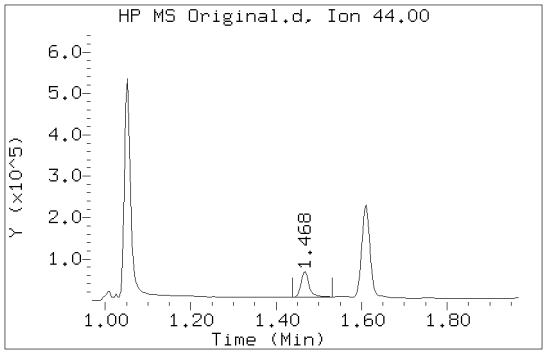
44
AREA
85820
HEIGHT
62087
07-May-2024
16:08
firat
tastan



AFTER
MASS
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AREA
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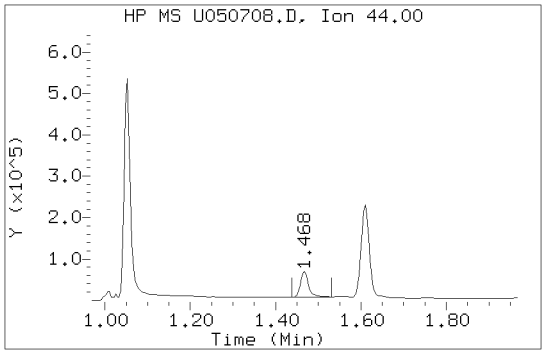
HEIGHT
62087
28-May-2024
10:32
firat



BEFORE
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AREA
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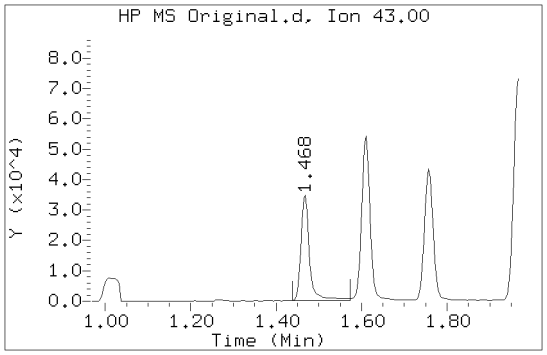
34639
07-May-2024
16:08
firat
tastan



AFTER
MASS
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AREA
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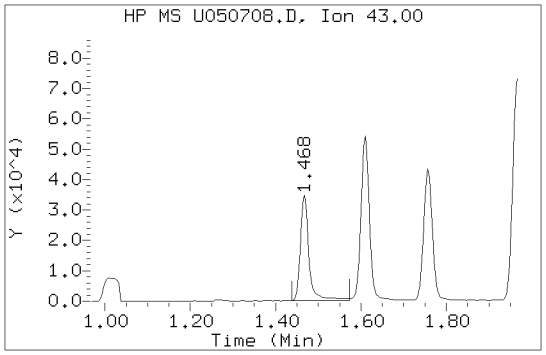
HEIGHT
34639
28-May-2024
10:32
firat



BEFORE
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HEIGHT
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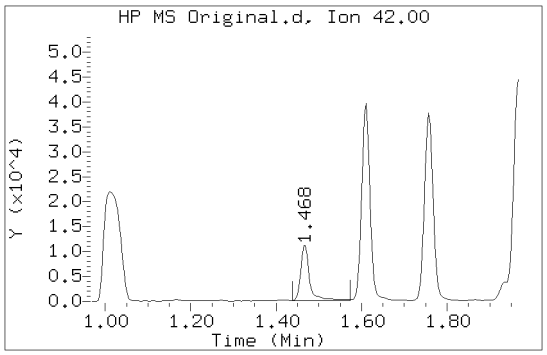
07-May-2024
16:08
firat
tastan



AFTER
MASS
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AREA
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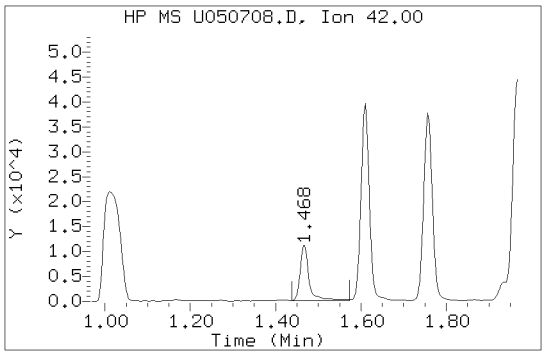
HEIGHT
11031
28-May-2024
10:32
firat



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
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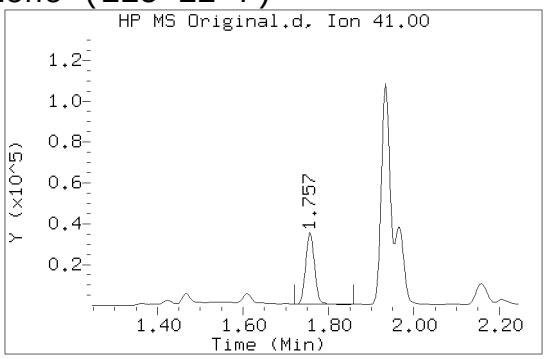
HEIGHT
35272
07-May-2024
16:08
firat
tastan



AFTER
MASS
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AREA
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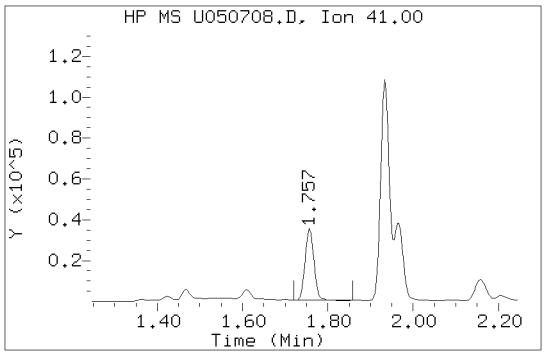
28-May-2024
10:32
firat



BEFORE
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07-May-2024
16:08
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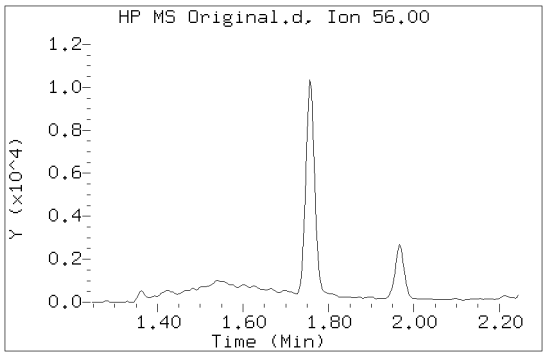

AFTER
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28-May-2024
10:32
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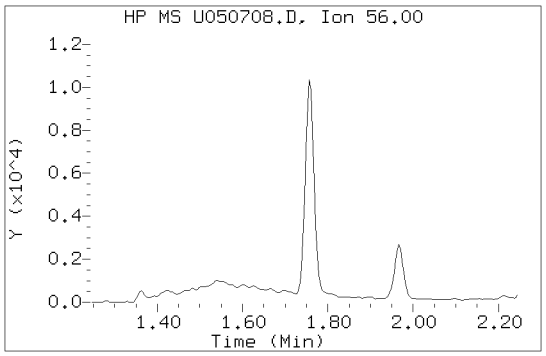

BEFORE
MASS
84
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HEIGHT
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07-May-2024
16:08
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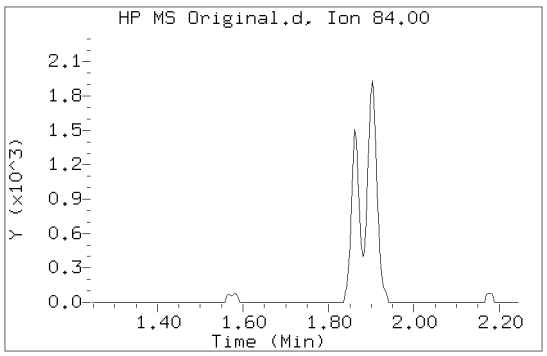
tastan



AFTER
MASS
84
AREA
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HEIGHT
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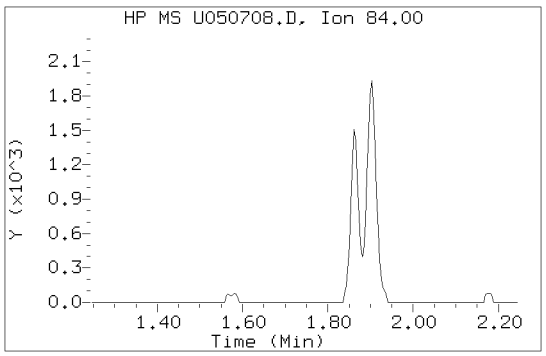
28-May-2024
10:32
firat



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 07-MAY-2024 14:36
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 14:14 Cal File: U050708.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: 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	4.823	4.823	(1.000)	245508	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	149041	100.000	102.17
3	Chloromethane	50	1.307	1.307	(0.271)	196655	100.000	101.81
4	Propionitrile	54	4.343	4.343	(0.901)	301666	1000.00	1009.21
5	Vinyl Chloride	62	1.385	1.385	(0.287)	200761	100.000	101.97
6	Bromomethane	94	1.618	1.618	(0.335)	98641	100.000	97.71
7	Chloroethane	64	1.704	1.704	(0.353)	134406	100.000	101.81
8	Trichlorofluoromethane	101	1.906	1.906	(0.395)	235146	100.000	102.39
9	Acrolein	56	2.274	2.274	(0.472)	17146	200.000	196.44
10	Acetone	43	2.420	2.420	(0.502)	125678	200.000	207.33
11	1,1-Dichloroethene	96	2.341	2.341	(0.485)	132959	100.000	102.29
12	Isobutyl Alcohol	43	5.288	5.288	(1.096)	529605	2000.00	2044.68
13	Acetonitrile	39	2.682	2.682	(0.556)	230240	1000.00	945.86
14	Allyl Chloride	41	2.682	2.682	(0.556)	551987	100.000	88.92
15	Iodomethane	142	2.476	2.476	(0.513)	352010	200.000	199.99
16	Acrylonitrile	53	3.072	3.072	(0.637)	157855	200.000	202.17
17	Methylene Chloride	84	2.802	2.802	(0.581)	164577	100.000	101.83
18	Methyl tert-butyl ether	73	3.091	3.091	(0.641)	500093	100.000	87.33
19	Carbon Disulfide	76	2.529	2.529	(0.524)	814612	200.000	211.07
20	trans-1,2-Dichloroethene	96	3.068	3.068	(0.636)	146972	100.000	101.76

21 Vinyl Acetate	43	4.347	4.347 (0.901)	210044	200.000	199.08
22 1,1-Dichloroethane	63	3.522	3.522 (0.730)	276401	100.000	101.35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.169	2.169	(0.450)	57857	100.000	101.40(M)
	24 2-Butanone	43	4.272	4.272	(0.886)	159228	200.000	205.30
	25 Methacrylonitrile	41	4.500	4.500	(0.933)	129941	100.000	97.19(a)
	26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	187920	100.000	102.89
	27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	170041	100.000	101.99
	28 Chloroform	83	4.579	4.579	(0.949)	274052	100.000	97.07
	29 Bromochloromethane	128	4.474	4.474	(0.928)	81205	100.000	101.80
$	30 Dibromofluoromethane	113	4.755	4.755	(0.986)	178142	100.000	102.98
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.984)	221127	100.000	109.52
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	206673	100.000	99.98
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	219856	100.000	93.99
	34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	180664	100.000	102.81
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	214226	100.000	104.20
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	359038	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	639980	100.000	99.40
	38 Trichloroethene	130	5.790	5.790	(1.042)	160120	100.000	102.17
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	198174	100.000	108.44
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	90886	100.000	106.17
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.193)	2754	200.000	192.56(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	171157	100.000	101.46
	43 2-Nitropropane	43	6.510	6.510	(1.350)	49792	100.000	103.57
	44 Dibromomethane	93	6.120	6.120	(1.101)	102213	100.000	96.75
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	399886	200.000	213.84
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	241726	100.000	102.54
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330734	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	665665	100.000	101.14
	49 Ethyl Methacrylate	69	7.218	7.218	(1.299)	246982	100.000	93.98
	50 Toluene	91	6.982	6.982	(0.853)	669231	100.000	102.46
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.295)	199280	100.000	102.76
	52 2-Hexanone	43	7.593	7.593	(0.928)	273104	200.000	197.63
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	127563	100.000	94.07
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	278398	100.000	97.53
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	161616	100.000	97.57
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	127780	100.000	101.99
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	155238	100.000	102.10
	58 1-Chlorohexane	55	8.197	8.197	(1.475)	153320	100.000	102.42
	59 Chlorobenzene	112	8.208	8.208	(1.003)	432836	100.000	95.34
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	150982	100.000	97.64
	61 Ethylbenzene	106	8.305	8.305	(1.015)	219911	100.000	102.59
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	558544	200.000	215.52
	63 o-Xylene	106	8.748	8.748	(1.069)	275936	100.000	106.60
	64 Styrene	104	8.763	8.763	(1.071)	486610	100.000	111.24
	66 Bromoform	173	8.916	8.916	(1.089)	106736	100.000	101.95
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	688605	100.000	110.63
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	225467	100.000	98.69
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	244719	100.000	100.50
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	179151	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	232159	100.000	101.74
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	51903	100.000	100.56
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	768880	100.000	106.53
	74 Bromobenzene	156	9.317	9.317	(0.916)	188439	100.000	96.91
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	566891	100.000	108.67

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	485401	100.000	99.41
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	561789	100.000	102.22

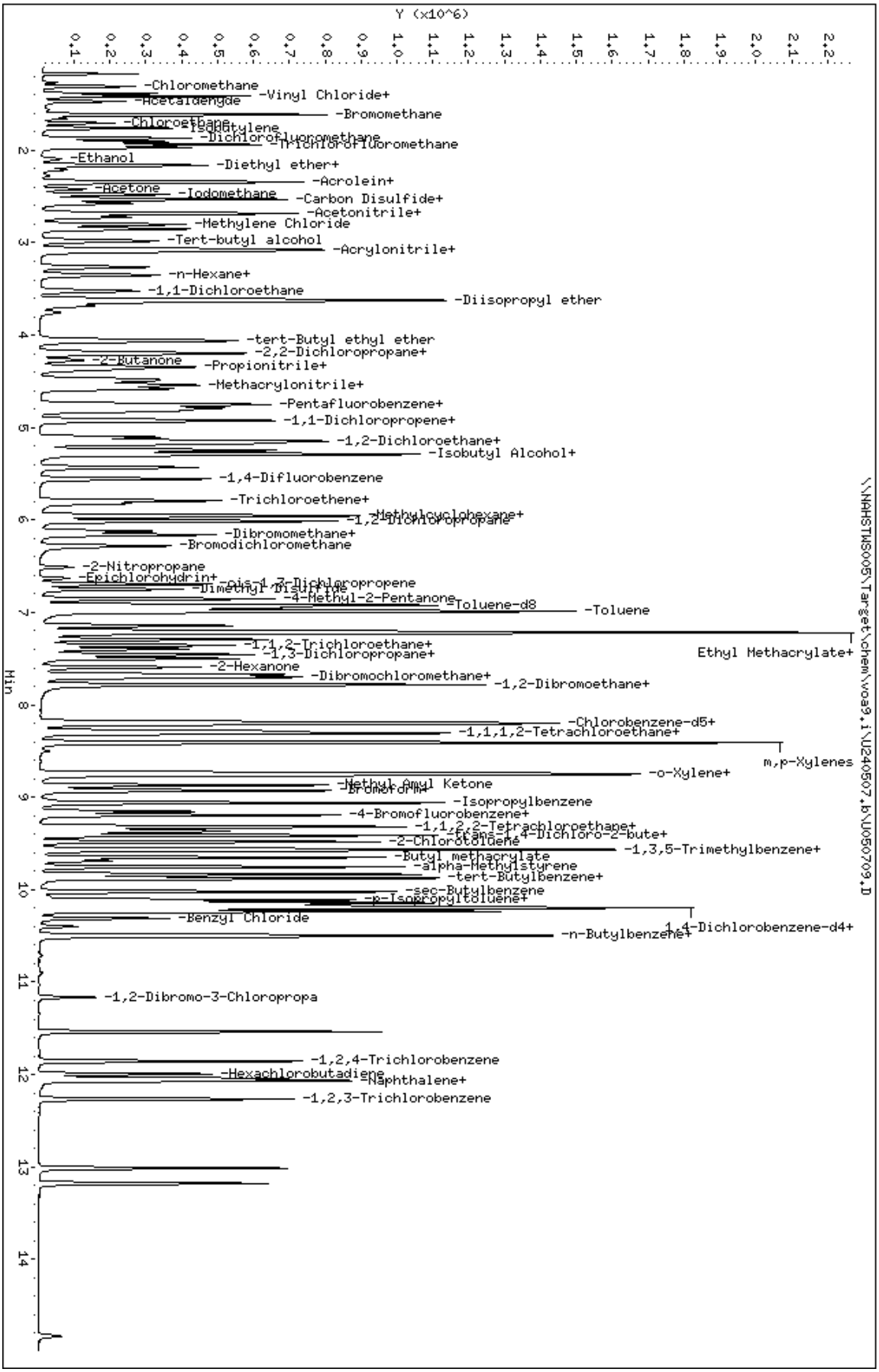
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	473702	100.000	108.17
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	567930	100.000	111.20
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	635250	100.000	110.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	576313	100.000	114.67
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	335751	100.000	98.73
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	350380	100.000	99.45
86	Benzyl Chloride	91	10.311	10.311	(1.260)	227226	100.000	100.71
87	n-Butylbenzene	91	10.491	10.491	(1.032)	499478	100.000	101.70
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	333550	100.000	98.86
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	32022	100.000	101.44
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	219402	100.000	100.81
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	90320	100.000	104.03
92	Naphthalene	128	12.065	12.065	(1.187)	586659	100.000	97.76
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	214492	100.000	106.25
146	Methyl acetate	43	2.724	2.724	(0.565)	280480	100.000	103.76
138	Freon TF	101	2.345	2.345	(0.486)	136602	100.000	104.57
141	Cyclohexane	56	4.789	4.789	(0.993)	236338	100.000	99.18
142	Tetrahydrofuran	42	4.545	4.545	(0.942)	76388	200.000	200.31
147	Methylcyclohexane	55	5.947	5.947	(1.070)	489133	100.000	110.17(A)
135	1,4-Dioxane	88	6.169	6.169	(1.279)	51178	2000.00	1960.15
132	n-Butanol	56	5.824	5.824	(1.208)	127342	2000.00	1933.18
136	n-Hexane	57	3.350	3.350	(0.695)	168177	100.000	103.18
139	Diethyl ether	59	2.157	2.157	(0.447)	148232	100.000	86.04
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	354421	2000.00	1977.92
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	300487	2000.00	2031.89
152	Amyl alcohol	42	7.394	7.394	(0.903)	146565	2000.00	1989.28
156	Diisopropyl ether	45	3.631	3.631	(0.753)	623679	100.000	89.80
162	Butyl acrylate	55	8.733	8.733	(1.067)	416154	100.000	99.79
187	n-Amyl acetate	43	8.931	8.931	(1.091)	343073	100.000	100.91
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	859217	100.000	97.23
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	645467	100.000	97.08
167	Ethanol	45	2.094	2.094	(0.434)	55066	2000.00	2004.16
172	tert-Butyl formate	59	5.246	5.246	(1.088)	296784	200.000	169.36
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	428323	2000.00	1873.32
174	tert-Amyl methyl ether	73	5.291	5.291	(1.097)	543230	100.000	98.01
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.841)	533285	100.000	94.78
176	tert-Amyl alcohol	59	5.246	5.246	(1.088)	296784	2000.00	1761.56
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.299)	1257802	2000.00	1916.86
140	1,3-Butadiene	54	1.415	1.415	(0.294)	160749	100.000	101.06
158	Dichlorofluoromethane	67	1.865	1.865	(0.387)	323734	100.000	92.90
182	Epichlorohydrin	57	6.630	6.630	(1.193)	59567	400.000	388.55
M 94	1,2-Dichloroethylene (total)	96				317013	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	275408	100.000	97.31
130	Ethyl Acetate	43	4.347	4.347	(0.901)	210044	100.000	100.25
131	Methyl Acrylate	55	4.373	4.373	(0.907)	242950	100.000	99.76
189	n-Butyl acetate	43	7.706	7.706	(0.941)	330461	100.000	96.36
134	Cyclohexanone	55	9.153	9.153	(0.900)	167333	2000.00	1978.47
185	Isoprene	39	2.169	2.169	(0.450)	41870	100.000	105.92
188	Isopropyl acetate	43	5.288	5.288	(0.951)	523426	100.000	102.92
150	Allyl alcohol	57	3.350	3.350	(0.695)	168177	2000.00	2063.71
194	Acetaldehyde	44	1.471	1.471	(0.305)	160542	400.000	415.94(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	445917	100.000	93.76

200 Dimethyl Disulfide	94	6.750	6.750 (0.825)	150878	100.000	103.08
202 Isobutylene	41	1.760	1.760 (0.365)	100002	100.000	100.31(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.233)	489133	100.000	109.13
163 Butyl methacrylate	41	9.647	9.647	(0.949)	243338	100.000	104.89
159 Propylene oxide	43	2.210	2.210	(0.458)	27651	200.000	167.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	227102	100.000	99.46

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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Date : 07-MAY-2024 14:36
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
Min
\\NAHSTWS005\Target\chem\voa9,i\U240507,b\U050709,D
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Trichlorofluoromethane
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane
-Carbon Disulfide+
-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+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-Epichlorohydrin+
-cis-1,3-Dichloropropene
-Dimethyl disulfide
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
Ethyl Methacrylate+
-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
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene+
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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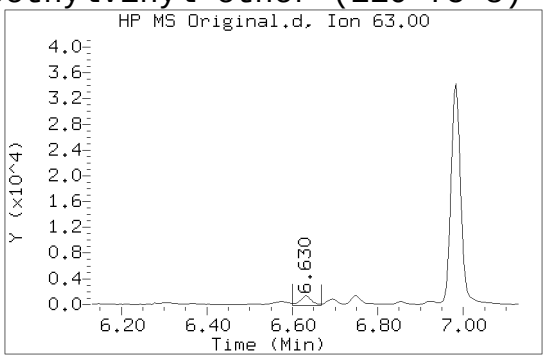

AFTER

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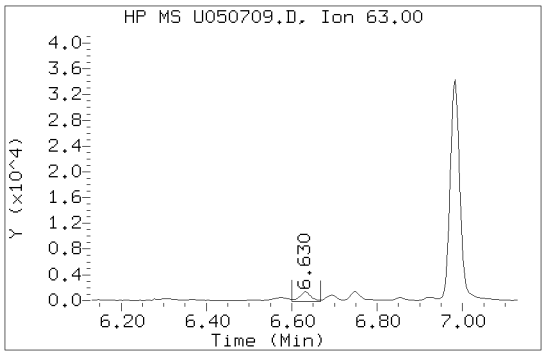

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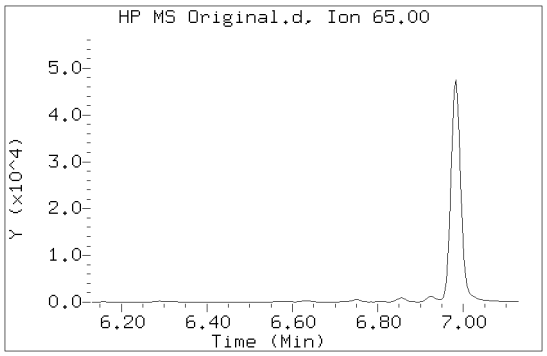

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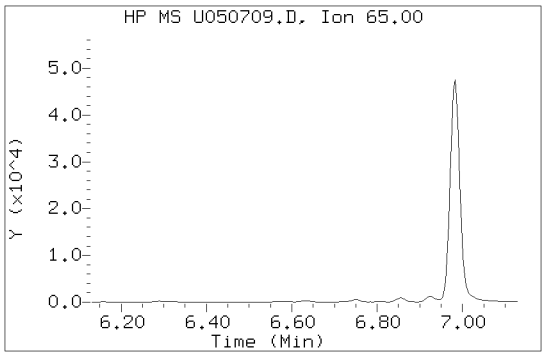

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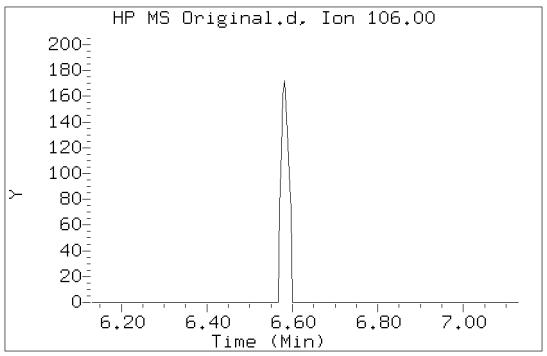

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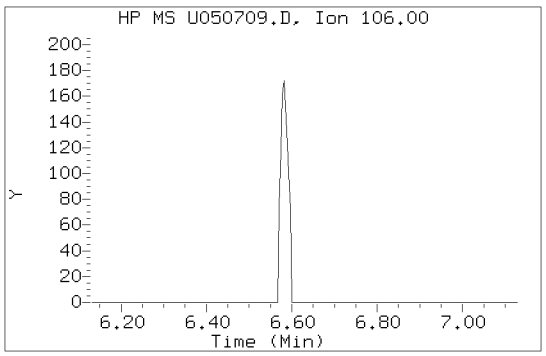

Chloroprene (126-99-8)

Reason Code:

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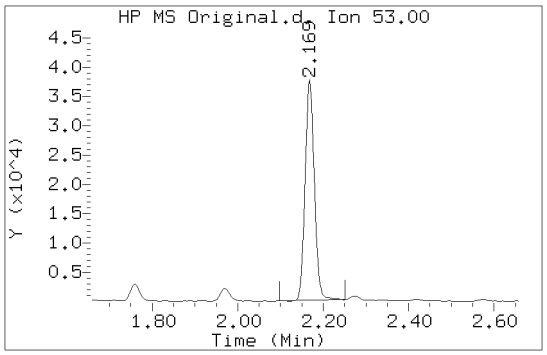

AFTER

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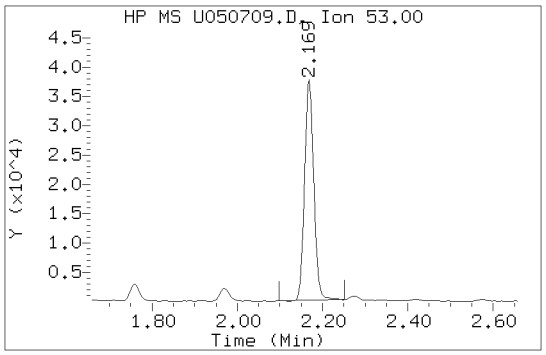

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Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

Chloroprene (126-99-8)

Reason Code:

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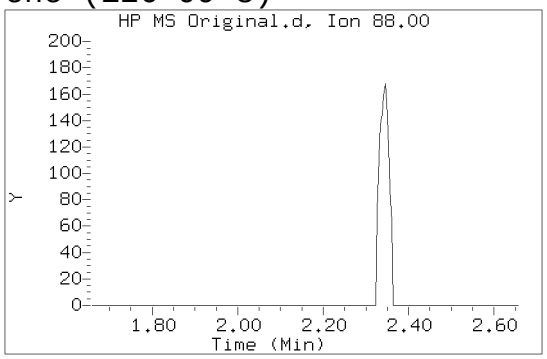

AFTER

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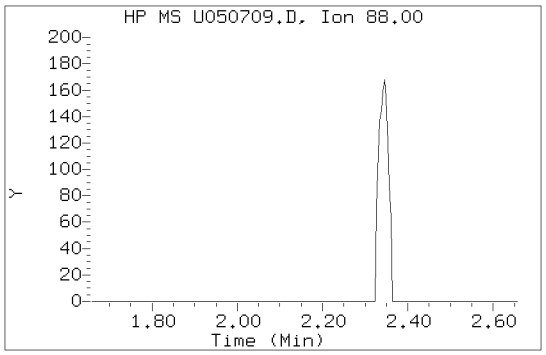

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Reason Code:

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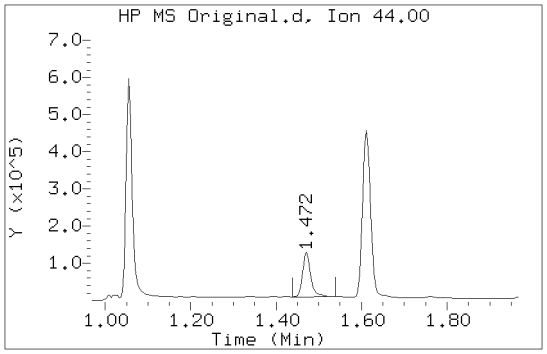

AFTER

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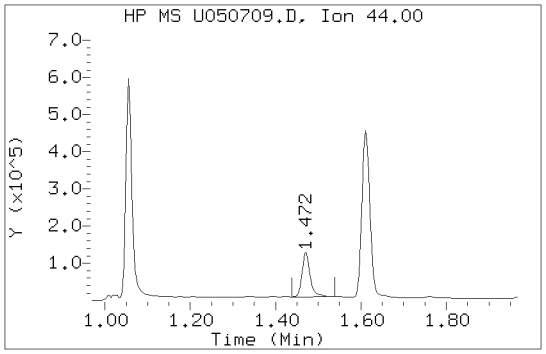

BEFORE

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16:09
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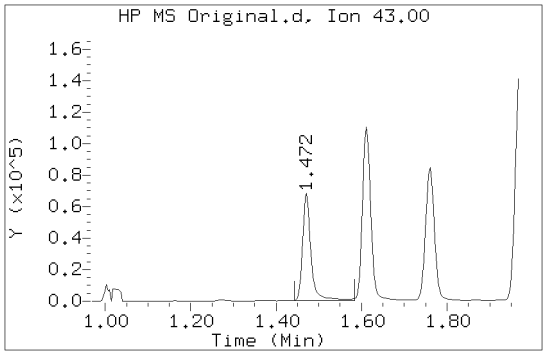

AFTER

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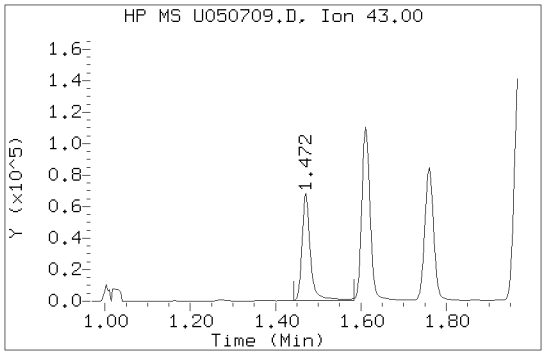

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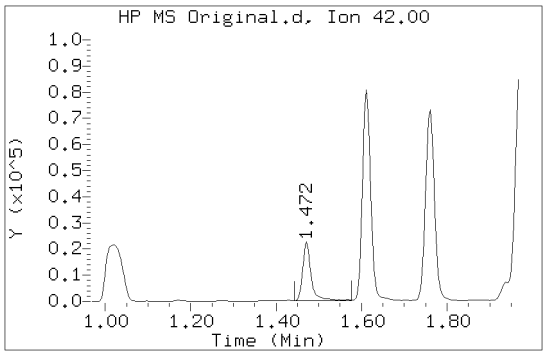

AFTER

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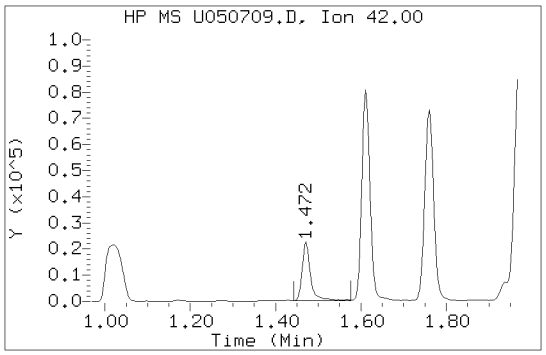

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Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

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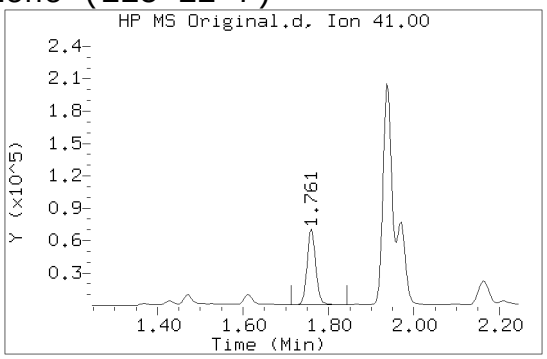
07-May-2024
16:09
firat
tastan



AFTER
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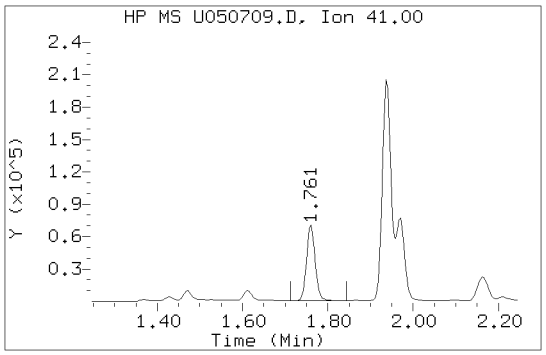

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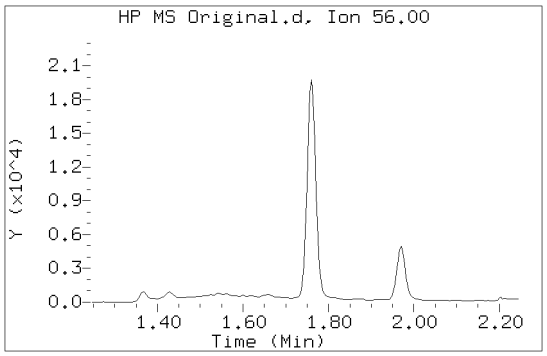

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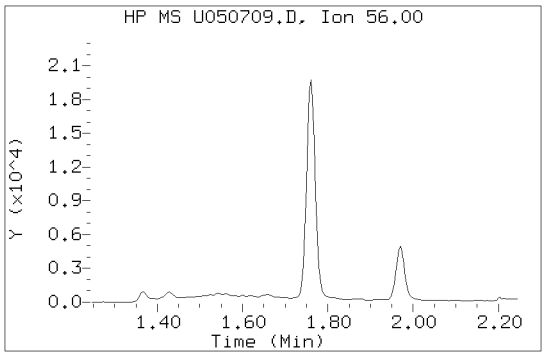

BEFORE
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07-May-2024
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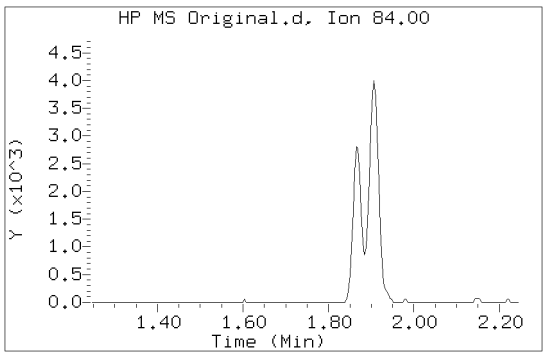

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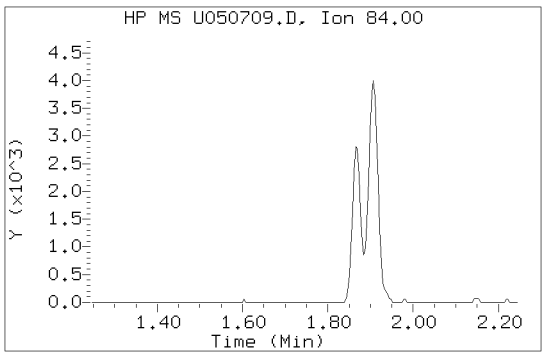

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Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D
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Inj Date : 07-MAY-2024 14:58
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 14:36 Cal File: U050709.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: 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	4.819	4.819	(1.000)	251082	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	226326	150.000	149.17
3	Chloromethane	50	1.303	1.303	(0.270)	294398	150.000	146.90
4	Propionitrile	54	4.339	4.339	(0.900)	454283	1500.00	1493.44
5	Vinyl Chloride	62	1.378	1.378	(0.286)	302899	150.000	148.60
6	Bromomethane	94	1.610	1.610	(0.334)	151120	150.000	146.73
7	Chloroethane	64	1.696	1.696	(0.352)	199936	150.000	147.66
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	350099	150.000	147.80
9	Acrolein	56	2.270	2.270	(0.471)	26689	300.000	302.33
10	Acetone	43	2.412	2.412	(0.501)	180361	300.000	292.90
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	199614	150.000	147.60
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	804764	3000.00	3038.02
13	Acetonitrile	39	2.675	2.675	(0.555)	344306	1500.00	1383.06
14	Allyl Chloride	41	2.675	2.675	(0.555)	833650	150.000	131.31
15	Iodomethane	142	2.472	2.472	(0.513)	526192	300.000	262.95
16	Acrylonitrile	53	3.068	3.068	(0.637)	237997	300.000	300.13
17	Methylene Chloride	84	2.795	2.795	(0.580)	240290	150.000	146.60
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	761849	150.000	130.09
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1235712	300.000	313.08
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	220571	150.000	147.94

21 Vinyl Acetate	43	4.343	4.343 (0.901)	311566	300.000	288.74
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	407315	150.000	146.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D Page 2
Report Date: 28-May-2024 10:33

	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)	87928	150.000	147.74(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	235563	300.000	296.99
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	193659	150.000	141.64(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	285676	150.000	148.27
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	255129	150.000	148.72
	28 Chloroform	83	4.575	4.575	(0.949)	406965	150.000	140.95
	29 Bromochloromethane	128	4.470	4.470	(0.928)	120727	150.000	148.33
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	262465	150.000	149.31
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	331201	150.000	160.40
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	308855	150.000	146.25
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	320983	150.000	134.32
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	275639	150.000	148.44
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	311362	150.000	149.43
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	366811	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	947826	150.000	144.09
	38 Trichloroethene	130	5.790	5.790	(1.043)	241342	150.000	148.41
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	299249	150.000	160.29
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	138256	150.000	157.93
	41 2-Chloroethylvinyl ether	63	6.629	6.629	(1.194)	4539	300.000	309.39(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	254059	150.000	147.35
	43 2-Nitropropane	43	6.510	6.510	(1.351)	78753	150.000	160.18
	44 Dibromomethane	93	6.120	6.120	(1.102)	151133	150.000	140.03
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	602677	300.000	321.86
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	373463	150.000	148.86
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	331174	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	978016	150.000	149.21
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	385305	150.000	143.51
	50 Toluene	91	6.982	6.982	(0.853)	992868	150.000	151.81
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	309383	150.000	149.08
	52 2-Hexanone	43	7.589	7.589	(0.927)	406845	300.000	292.30
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	188606	150.000	138.91
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	410962	150.000	143.78
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	244807	150.000	146.34
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	190045	150.000	148.19
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	230437	150.000	151.36
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	233546	150.000	149.41
	59 Chlorobenzene	112	8.208	8.208	(1.003)	641394	150.000	141.09
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	228180	150.000	146.38
	61 Ethylbenzene	106	8.305	8.305	(1.015)	330448	150.000	153.95
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	829443	300.000	319.63
	63 o-Xylene	106	8.748	8.748	(1.069)	410428	150.000	158.35
	64 Styrene	104	8.759	8.759	(1.070)	725227	150.000	165.56
	66 Bromoform	173	8.916	8.916	(1.089)	168544	150.000	150.28
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1026279	150.000	164.66
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	336129	150.000	148.74
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	360368	150.000	148.68
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	176969	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	353084	150.000	156.65
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	84320	150.000	151.56
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1154318	150.000	161.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	282375	150.000	147.01
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	849763	150.000	164.90

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	722317	150.000	149.76
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	833947	150.000	153.61

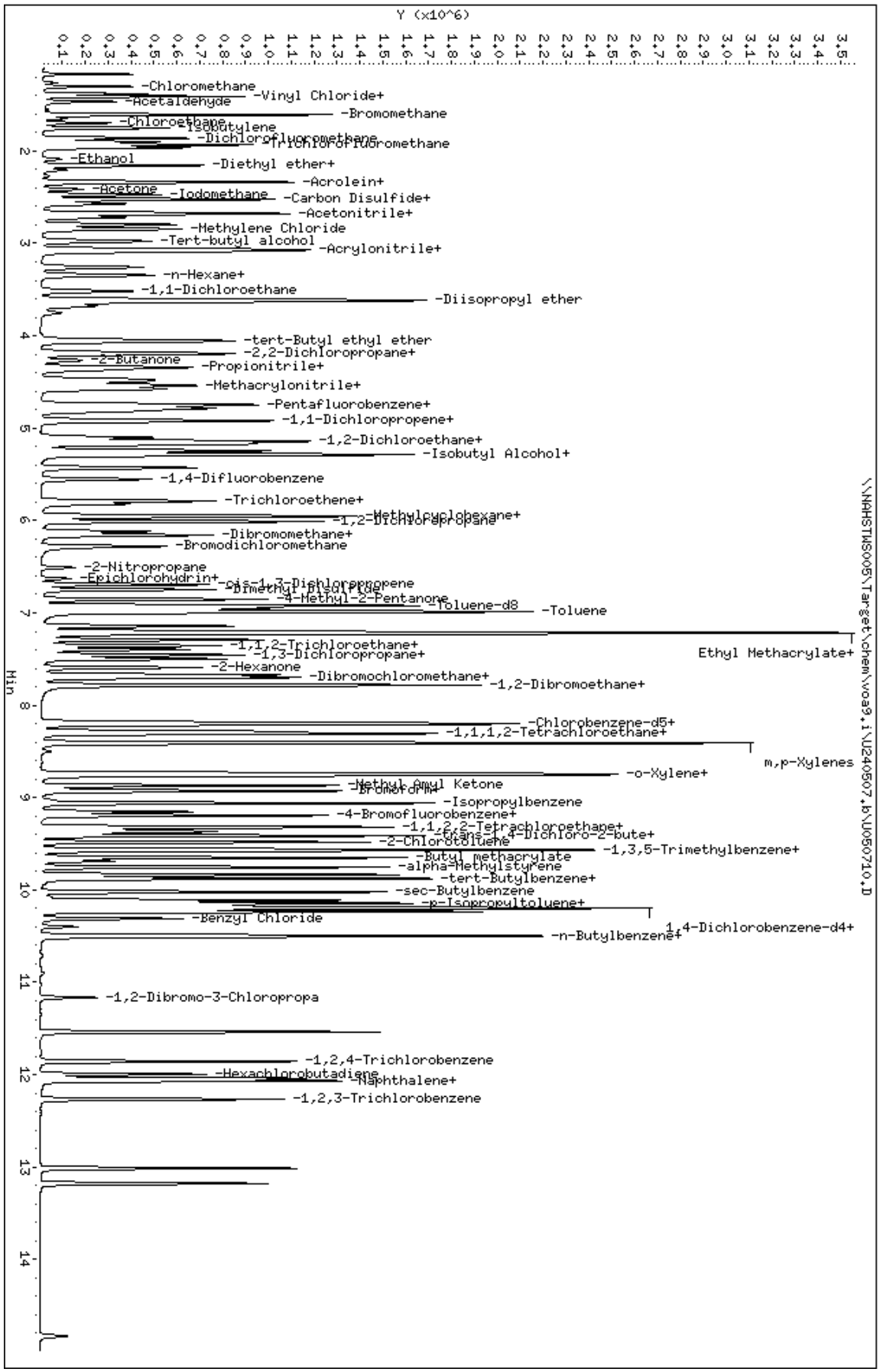
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	707454	150.000	163.54
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	849067	150.000	168.30
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	951392	150.000	166.90
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	860496	150.000	173.32
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	496656	150.000	147.85
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	516179	150.000	148.10
86	Benzyl Chloride	91	10.311	10.311	(1.260)	395943	150.000	154.21
87	n-Butylbenzene	91	10.491	10.491	(1.031)	749513	150.000	150.04
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.032)	498844	150.000	149.48
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	50380	150.000	152.12
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.165)	337577	150.000	151.21
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	135937	150.000	158.50
92	Naphthalene	128	12.065	12.065	(1.186)	889446	150.000	148.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	321232	150.000	161.10
146	Methyl acetate	43	2.716	2.716	(0.564)	408705	150.000	148.61
138	Freon TF	101	2.337	2.337	(0.485)	205865	150.000	154.09
141	Cyclohexane	56	4.785	4.785	(0.993)	356274	150.000	146.32
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	115705	300.000	298.31
147	Methylcyclohexane	55	5.947	5.947	(1.071)	755797	150.000	166.63(A)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	78579	3000.00	2950.13
132	n-Butanol	56	5.824	5.824	(1.208)	200314	3000.00	2973.46
136	n-Hexane	57	3.346	3.346	(0.694)	249117	150.000	146.77
139	Diethyl ether	59	2.150	2.150	(0.446)	227120	150.000	128.91
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	538019	3000.00	2949.30
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	444241	3000.00	2951.53
152	Amyl alcohol	42	7.398	7.398	(0.904)	231157	3000.00	3010.06
156	Diisopropyl ether	45	3.627	3.627	(0.753)	950914	150.000	133.89
162	Butyl acrylate	55	8.733	8.733	(1.067)	681141	150.000	152.42
187	n-Amyl acetate	43	8.931	8.931	(1.091)	548844	150.000	161.23
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1316712	150.000	150.89
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	979586	150.000	149.15
167	Ethanol	45	2.090	2.090	(0.434)	83180	3000.00	2979.76
172	tert-Butyl formate	59	5.246	5.246	(1.089)	536846	300.000	299.55(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	677428	3000.00	2949.95
174	tert-Amyl methyl ether	73	5.287	5.287	(1.097)	861393	150.000	151.97
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	829625	150.000	144.17
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	536846	3000.00	3115.71
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1993529	3000.00	2954.51
140	1,3-Butadiene	54	1.408	1.408	(0.292)	241564	150.000	148.50
158	Dichlorofluoromethane	67	1.861	1.861	(0.386)	492248	150.000	138.13
182	Epichlorohydrin	57	6.629	6.629	(1.194)	93717	600.000	598.36
M 94	1,2-Dichloroethylene (total)	96				475700	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	420083	150.000	149.14
130	Ethyl Acetate	43	4.343	4.343	(0.901)	311566	150.000	145.41
131	Methyl Acrylate	55	4.369	4.369	(0.907)	371780	150.000	149.71
189	n-Butyl acetate	43	7.705	7.705	(0.941)	508889	150.000	146.61
134	Cyclohexanone	55	9.152	9.152	(0.900)	251800	3000.00	3015.02
185	Isoprene	39	2.161	2.161	(0.449)	61989	150.000	153.33
188	Isopropyl acetate	43	5.287	5.287	(0.952)	804924	150.000	154.91
150	Allyl alcohol	57	3.346	3.346	(0.694)	249117	3000.00	2935.46
194	Acetaldehyde	44	1.464	1.464	(0.304)	240390	600.000	614.12(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	714947	150.000	148.69

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	299141	150.000	149.36
202 Isobutylene	41	1.752	1.752 (0.364)	153193	150.000	150.42(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.234)	755797	150.000	164.88
163 Butyl methacrylate	41	9.647	9.647	(0.948)	404818	150.000	176.66
159 Propylene oxide	43	2.206	2.206	(0.458)	45014	300.000	266.61(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	367719	150.000	153.17

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: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

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

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Inj Date : 07-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD150

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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07-May-2024
16:10
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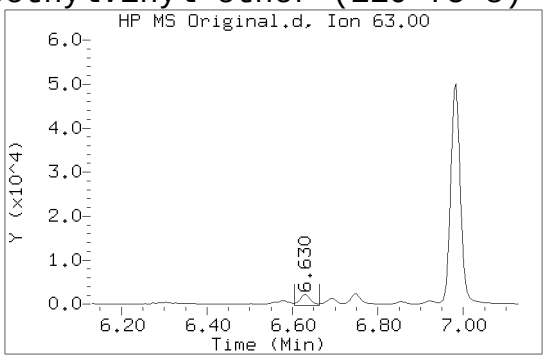

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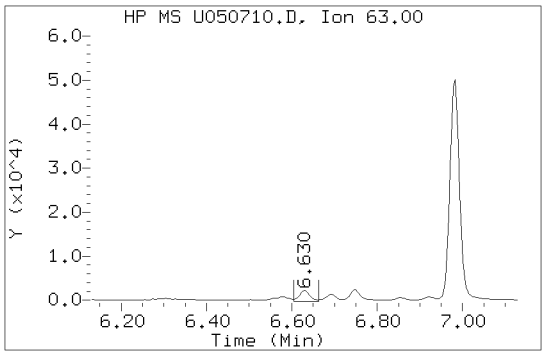

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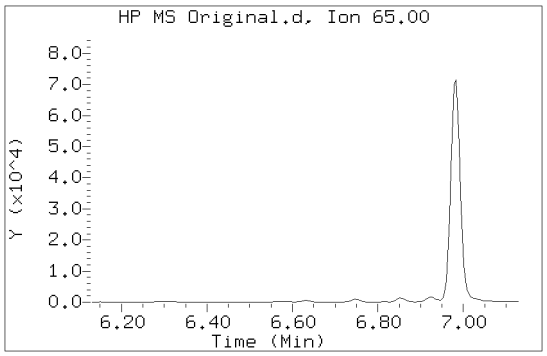

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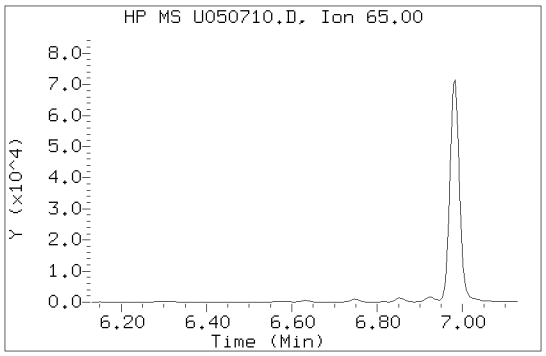

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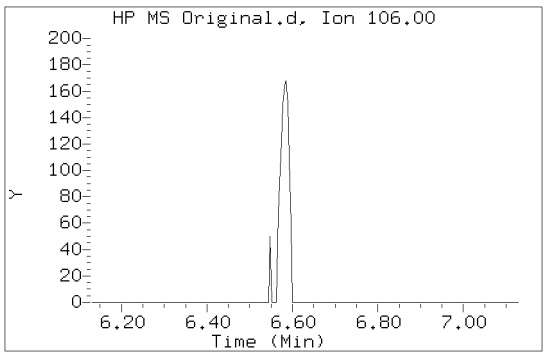

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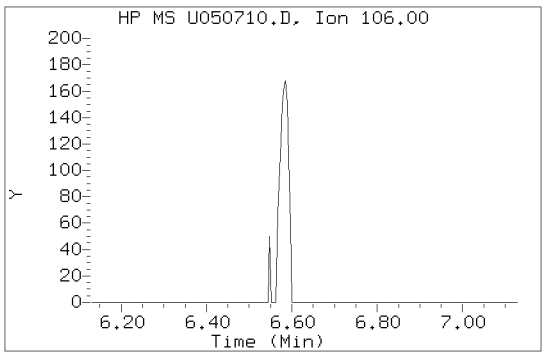

Chloroprene (126-99-8)

Reason Code:

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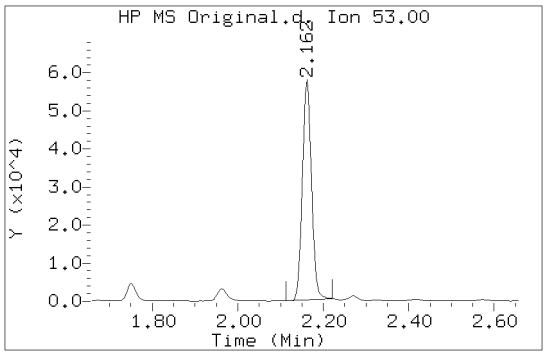

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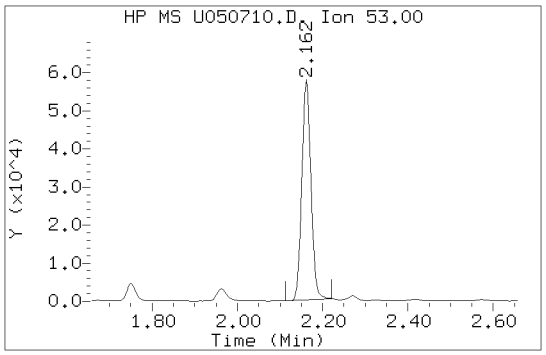

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InstruID : VOA9.i
LabSampID : VSTD150

Chloroprene (126-99-8)

Reason Code:

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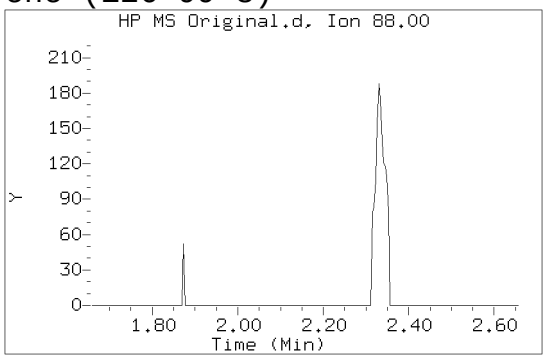

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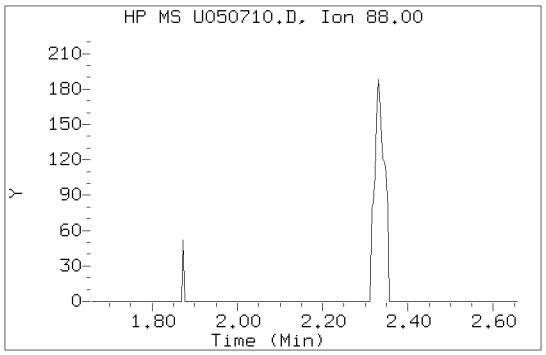

Acetaldehyde (75-07-0)

Reason Code:

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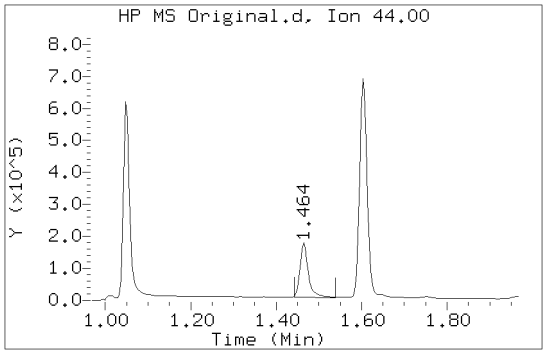

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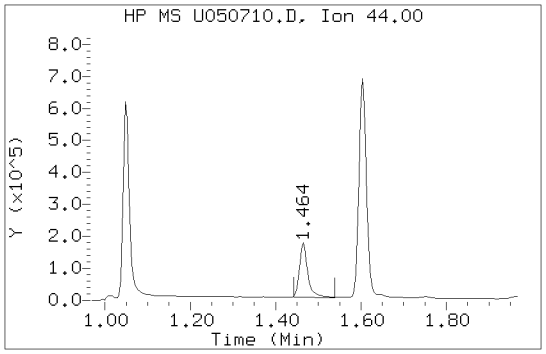

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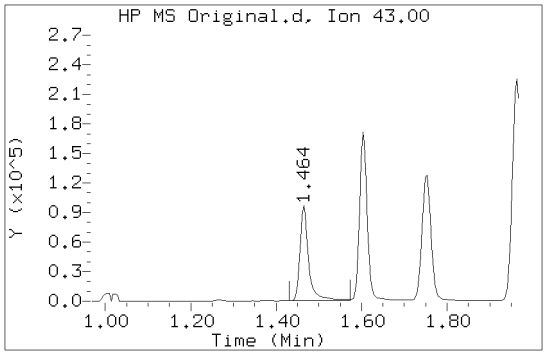

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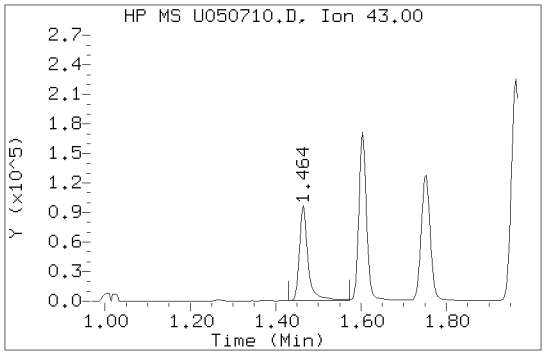

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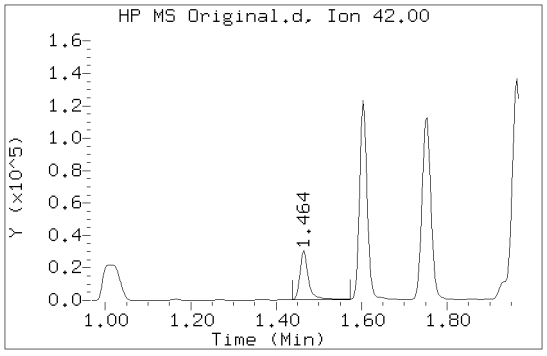

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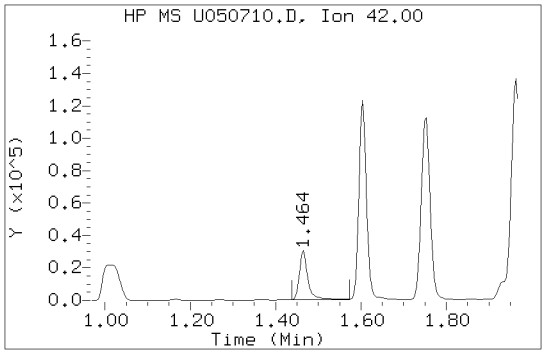

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Inj Date : 07-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

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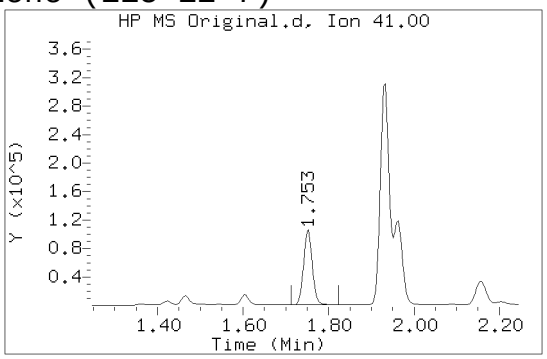

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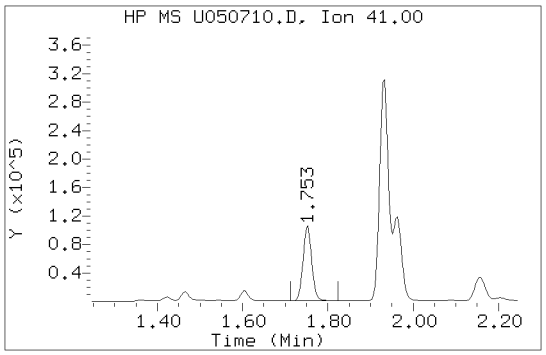

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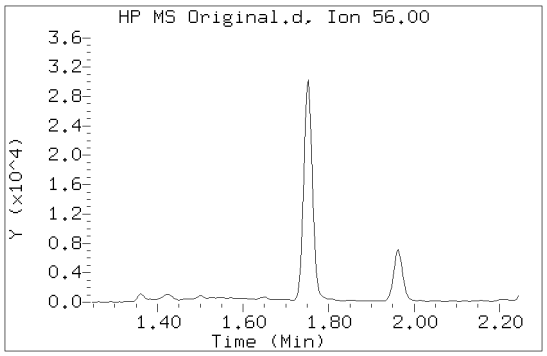

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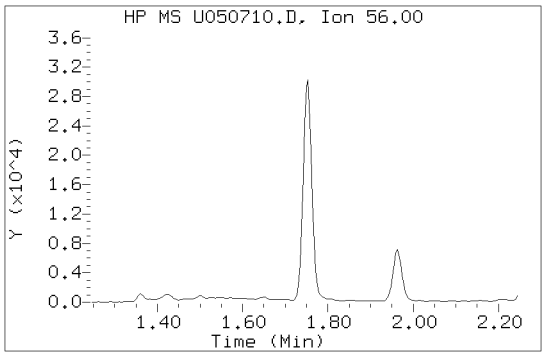

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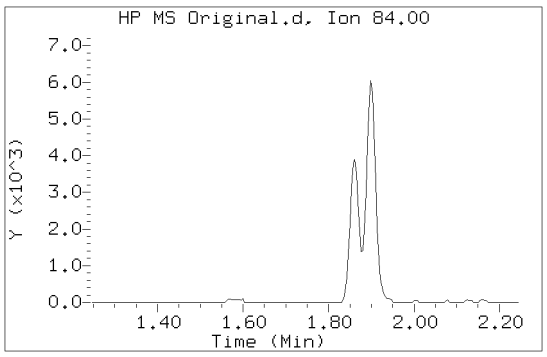

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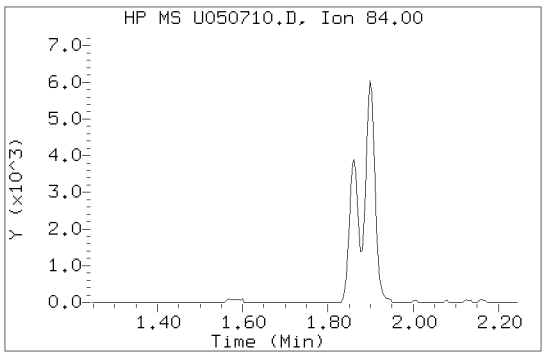

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Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D
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Inj Date : 07-MAY-2024 15:20
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i   Quant Type: ISTD
Cal Date : 07-MAY-2024 14:58   Cal File: U050710.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: 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)	261338	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	321982	200.000	200.04(A)
3	Chloromethane	50	1.295	1.295	(0.269)	428218	200.000	201.12(A)
4	Propionitrile	54	4.339	4.339	(0.901)	628272	2000.00	1989.52
5	Vinyl Chloride	62	1.374	1.374	(0.285)	431237	200.000	200.34(A)
6	Bromomethane	94	1.603	1.603	(0.333)	218451	200.000	204.07(A)
7	Chloroethane	64	1.689	1.689	(0.351)	284336	200.000	200.81(A)
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	499853	200.000	200.63(A)
9	Acrolein	56	2.262	2.262	(0.470)	36447	400.000	398.66
10	Acetone	43	2.409	2.409	(0.500)	254435	400.000	398.71
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	288932	200.000	200.72(A)
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1196280	4000.00	4338.79(A)
13	Acetonitrile	39	2.671	2.671	(0.555)	467373	2000.00	1803.74
14	Allyl Chloride	41	2.671	2.671	(0.555)	1131432	200.000	171.23
15	Iodomethane	142	2.465	2.465	(0.512)	768085	400.000	316.81
16	Acrylonitrile	53	3.065	3.065	(0.636)	325459	400.000	395.71
17	Methylene Chloride	84	2.791	2.791	(0.580)	341887	200.000	201.46(A)
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	1062389	200.000	174.30
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1791772	400.000	436.15(A)
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	315136	200.000	200.68(A)

21 Vinyl Acetate	43	4.339	4.339 (0.901)	439879	400.000	391.66
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	586207	200.000	202.20(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D Page 2
Report Date: 28-May-2024 10:33

	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)	127729	200.000	200.82(AM)
24	2-Butanone	43	4.264	4.264	(0.886)	336843	400.000	408.01(A)
25	Methacrylonitrile	41	4.493	4.493	(0.933)	264787	200.000	186.06(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	417606	200.000	200.30(A)
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	360131	200.000	200.27(A)
28	Chloroform	83	4.572	4.572	(0.949)	575824	200.000	191.61
29	Bromochloromethane	128	4.467	4.467	(0.928)	169265	200.000	200.07(A)
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	361095	200.000	198.05
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	480412	200.000	223.54(A)
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	446214	200.000	202.67(A)
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	451449	200.000	181.21
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	404504	200.000	200.25(A)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	424260	200.000	196.61
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	382418	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	1352374	200.000	197.20
38	Trichloroethene	130	5.786	5.786	(1.042)	346154	200.000	200.39(A)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	438776	200.000	225.43(A)
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	192459	200.000	211.22(A)
41	2-Chloroethylvinyl ether	63	6.630	6.630	(1.194)	6074	400.000	396.19(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	362446	200.000	201.58(A)
43	2-Nitropropane	43	6.506	6.506	(1.351)	117550	200.000	229.71(A)
44	Dibromomethane	93	6.120	6.120	(1.102)	217340	200.000	193.15
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	864775	400.000	444.95(A)
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	550020	200.000	200.09(A)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	343741	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1351380	200.000	199.22
49	Ethyl Methacrylate	69	7.222	7.222	(1.300)	554352	200.000	198.05
50	Toluene	91	6.982	6.982	(0.853)	1417616	200.000	208.83(A)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	457859	200.000	199.96
52	2-Hexanone	43	7.589	7.589	(0.927)	591469	400.000	407.99(A)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	269993	200.000	191.58
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	582454	200.000	196.34
55	Dibromochloromethane	129	7.690	7.690	(0.940)	357218	200.000	204.73(A)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	274355	200.000	200.53(A)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	328532	200.000	207.90(A)
58	1-Chlorohexane	55	8.197	8.197	(1.476)	335230	200.000	199.87
59	Chlorobenzene	112	8.208	8.208	(1.003)	917302	200.000	194.41
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	332181	200.000	204.53(A)
61	Ethylbenzene	106	8.305	8.305	(1.015)	473018	200.000	212.32(A)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	1197762	400.000	444.69(A)
63	o-Xylene	106	8.748	8.748	(1.069)	588235	200.000	218.65(A)
64	Styrene	104	8.759	8.759	(1.070)	1035523	200.000	227.76(A)
66	Bromoform	173	8.916	8.916	(1.089)	252813	200.000	199.59
67	Isopropylbenzene	105	9.062	9.062	(1.107)	1483154	200.000	229.26(A)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	480624	200.000	201.99(A)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	501218	200.000	199.86
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186202	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	517688	200.000	218.29(A)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	125868	200.000	199.24
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1664610	200.000	221.92(A)
74	Bromobenzene	156	9.317	9.317	(0.916)	405228	200.000	200.51(A)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1228132	200.000	226.51(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1028717	200.000	202.72(A)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	1200535	200.000	210.17(A)

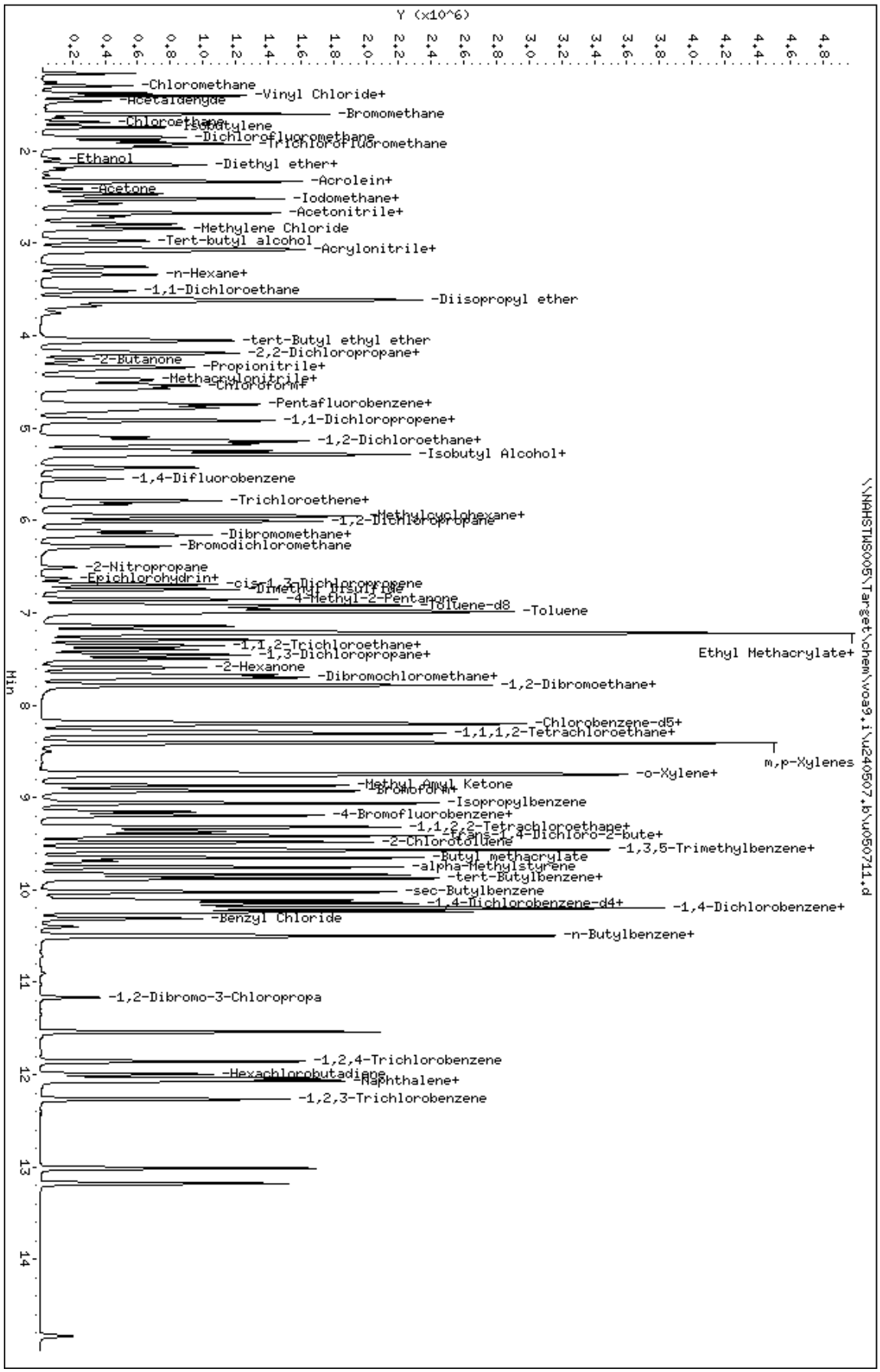
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1020039	200.000	224.11(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1211487	200.000	228.23(A)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1377337	200.000	229.65(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1237105	200.000	236.82(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	715621	200.000	202.47(A)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	742115	200.000	202.20(A)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	627463	200.000	198.25
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1083507	200.000	199.70
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	707408	200.000	201.34(A)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	73753	200.000	198.76
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	486707	200.000	199.29
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	195715	200.000	216.88(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1279650	200.000	202.79(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	461906	200.000	220.16(A)
146	Methyl acetate	43	2.712	2.712	(0.563)	566150	200.000	198.39
138	Freon TF	101	2.334	2.334	(0.485)	294912	200.000	212.09(A)
141	Cyclohexane	56	4.781	4.781	(0.993)	516629	200.000	203.94(A)
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	160482	400.000	398.64
147	Methylcyclohexane	55	5.947	5.947	(1.071)	1065611	200.000	225.35(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	111654	4000.00	4032.70(A)
132	n-Butanol	56	5.824	5.824	(1.209)	283464	4000.00	4042.61(A)
136	n-Hexane	57	3.342	3.342	(0.694)	363692	200.000	200.92(A)
139	Diethyl ether	59	2.142	2.142	(0.445)	313362	200.000	170.88
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	763294	4000.00	4030.07(A)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	627994	4000.00	4020.10(A)
152	Amyl alcohol	42	7.398	7.398	(0.904)	332830	4000.00	3996.72
156	Diisopropyl ether	45	3.623	3.623	(0.752)	1316634	200.000	178.10
162	Butyl acrylate	55	8.733	8.733	(1.067)	991139	200.000	198.88
187	n-Amyl acetate	43	8.931	8.931	(1.091)	820629	200.000	232.26(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1841641	200.000	200.61(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1366624	200.000	197.76
167	Ethanol	45	2.086	2.086	(0.433)	115408	4000.00	3985.69
172	tert-Butyl formate	59	5.246	5.246	(1.090)	777263	400.000	416.68(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	977684	4000.00	4095.80(A)
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	1175809	200.000	199.31
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	1174436	200.000	196.09
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	777263	4000.00	4334.00(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2880850	4000.00	4081.87(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	348448	200.000	205.80(A)
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	678537	200.000	182.93
182	Epichlorohydrin	57	6.630	6.630	(1.194)	137015	800.000	839.10(A)
M 94	1,2-Dichloroethylene (total)	96				675267	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	603435	200.000	202.87(A)
130	Ethyl Acetate	43	4.339	4.339	(0.901)	439879	200.000	197.24
131	Methyl Acrylate	55	4.369	4.369	(0.907)	515432	200.000	199.71
189	n-Butyl acetate	43	7.705	7.705	(0.941)	743802	200.000	205.25(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	361742	4000.00	4117.47(A)
185	Isoprene	39	2.154	2.154	(0.447)	89290	200.000	212.20(A)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	1189596	200.000	219.60(A)
150	Allyl alcohol	57	3.342	3.342	(0.694)	363692	4000.00	4018.40(A)
194	Acetaldehyde	44	1.456	1.456	(0.303)	313789	800.000	772.98(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1025172	200.000	204.51

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	496146	200.000	135.46
202 Isobutylene	41	1.741	1.741 (0.362)	210955	200.000	199.11(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	1065611	200.000	223.35(A)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	579946	200.000	240.53(A)
159 Propylene oxide	43	2.199	2.199	(0.457)	64927	400.000	369.46(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	532256	200.000	198.52

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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Date : 07-MAY-2024 15:20
Client ID:
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: RKG
Column diameter: 0.18

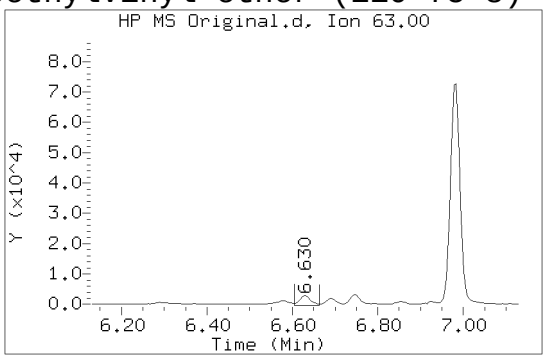
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D
Inj Date : 07-MAY-2024 15:20
InstruID : VOA9.i
LabSampID : VSTD200

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

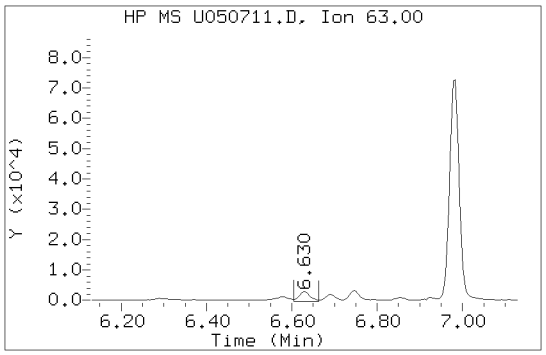
BEFORE

MASS
63
AREA
6074
HEIGHT
3246
07-May-2024
16:11
firat
tastan



AFTER

MASS
63
AREA
6074
HEIGHT
3246
28-May-2024
10:32
firat



BEFORE

MASS
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AREA
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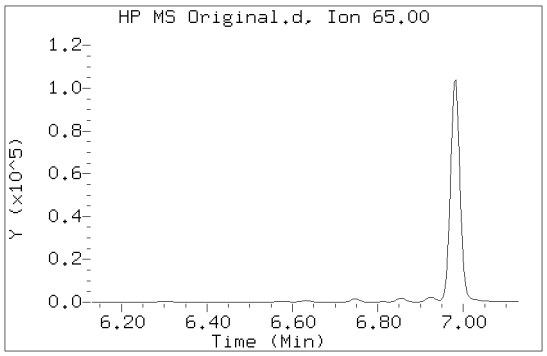
HEIGHT
0
07-May-2024
16:11
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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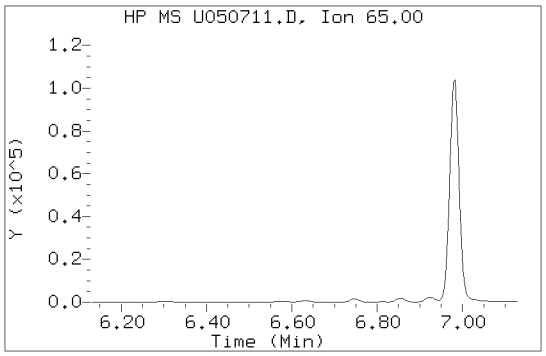
28-May-2024
10:32
firat



BEFORE

MASS
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AREA
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HEIGHT
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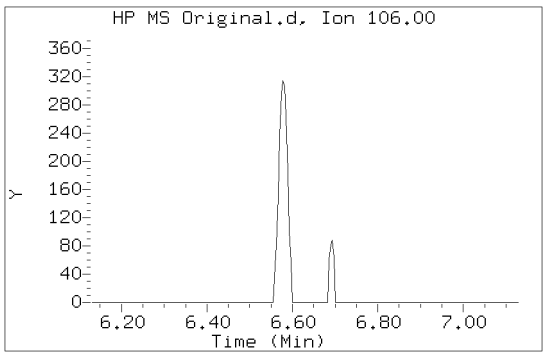
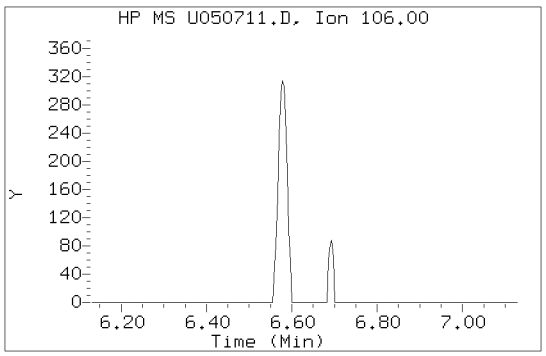
07-May-2024
16:11
firat
tastan



AFTER

MASS
106
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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AREA
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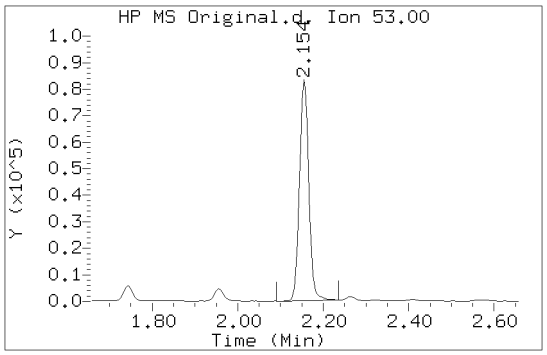
HEIGHT
83316
07-May-2024
16:11
firat
tastan



AFTER

MASS
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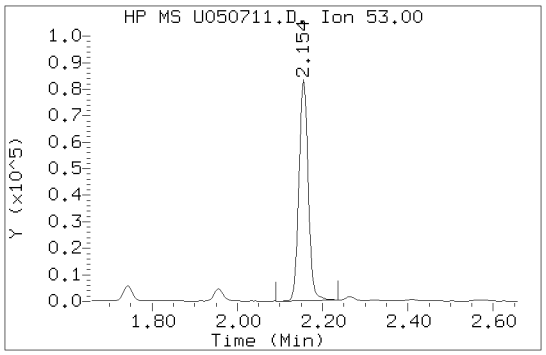
AREA
127729
HEIGHT
83316
28-May-2024
10:32
firat



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D
Inj Date : 07-MAY-2024 15:20
InstruID : VOA9.i
LabSampID : VSTD200

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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AREA
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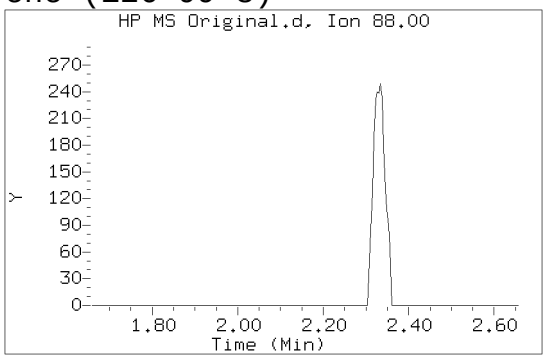
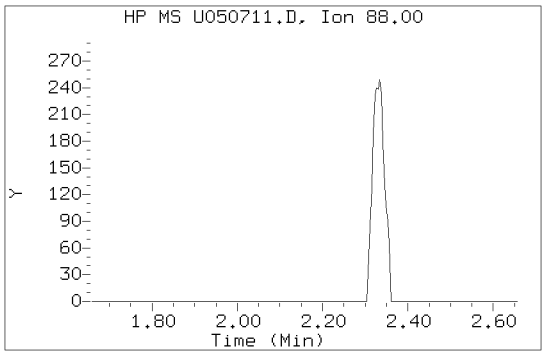
HEIGHT
0
07-May-2024
16:11
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

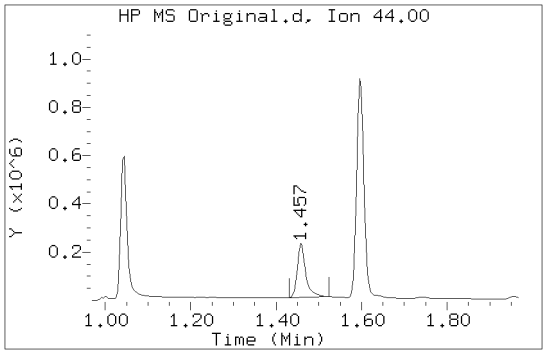


Acetaldehyde (75-07-0)

Reason Code:

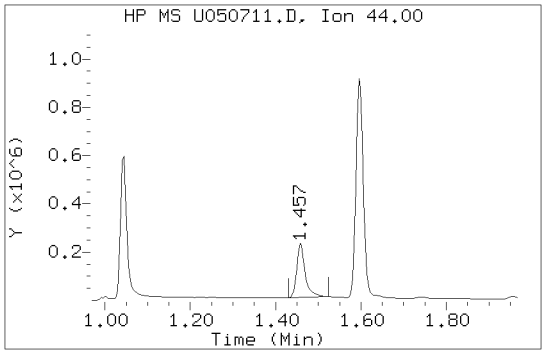
BEFORE

MASS
44
AREA
313789
HEIGHT
223616
07-May-2024
16:11
firat
tastan



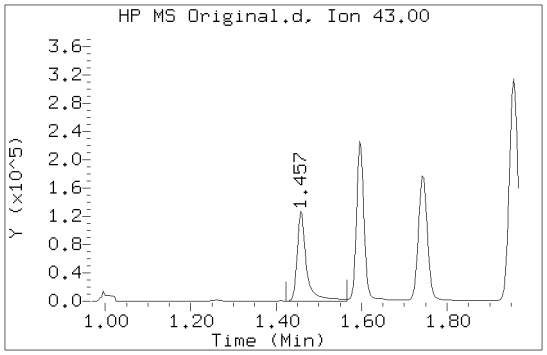
AFTER

MASS
44
AREA
313789
HEIGHT
223616
28-May-2024
10:32
firat



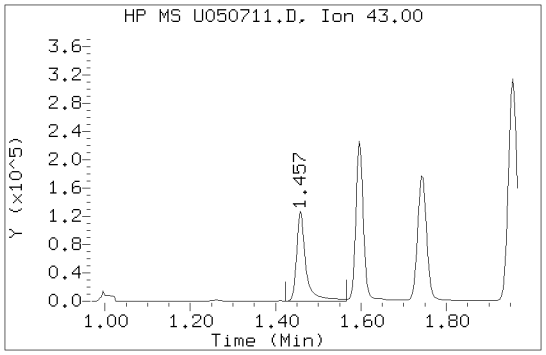
BEFORE

MASS
43
AREA
196403
HEIGHT
126970
07-May-2024
16:11
firat
tastan



AFTER

MASS
43
AREA
196403
HEIGHT
126970
28-May-2024
10:32
firat



BEFORE

MASS
42
AREA
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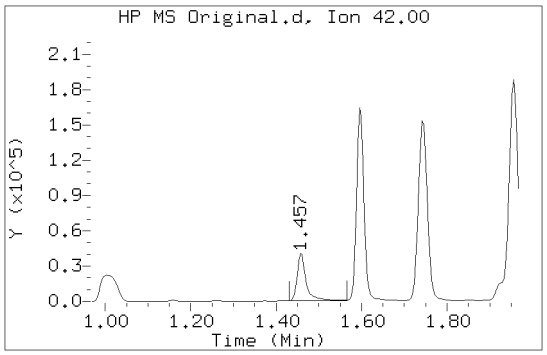
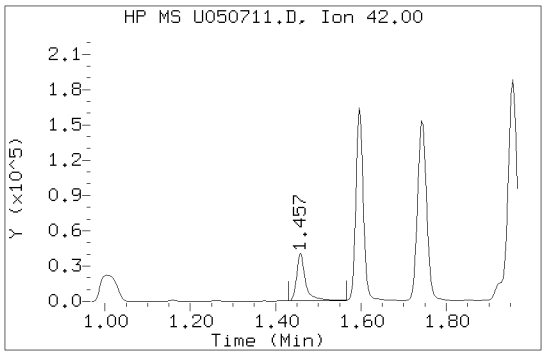
HEIGHT
40602
07-May-2024
16:11
firat
tastan



AFTER

MASS
42
AREA
61738
HEIGHT
40602
28-May-2024
10:32
firat



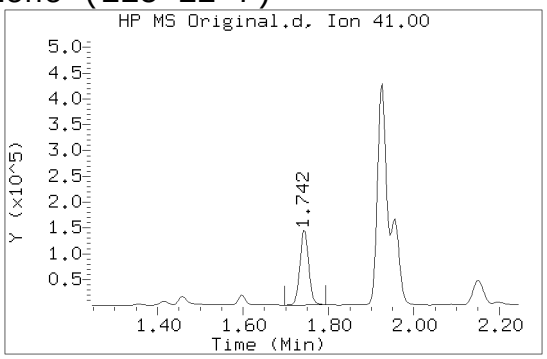
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D
Inj Date : 07-MAY-2024 15:20
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
210955
HEIGHT
143909
07-May-2024
16:11
firat
tastan



AFTER

MASS
41
AREA
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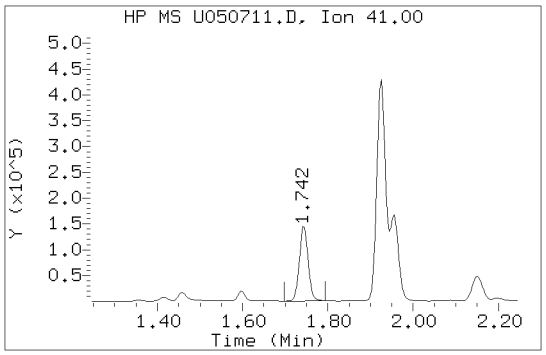
HEIGHT
143909
28-May-2024
10:32
firat



BEFORE

MASS
56
AREA
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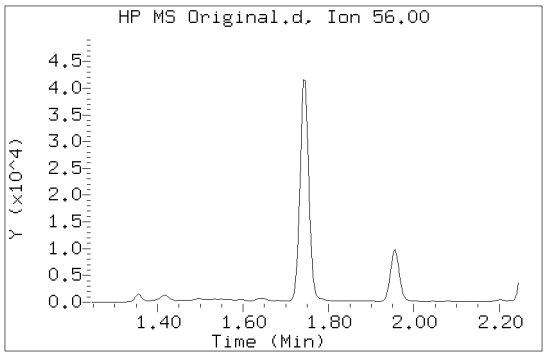
HEIGHT
0
07-May-2024
16:11
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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28-May-2024
10:32
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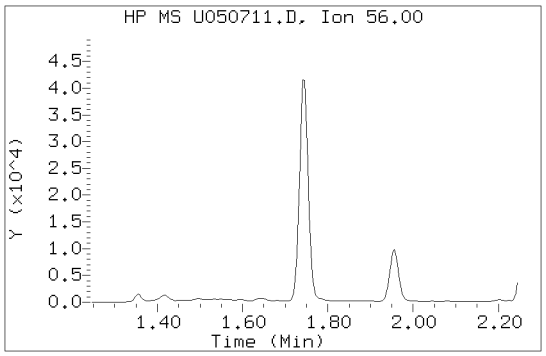

BEFORE

MASS
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AREA
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HEIGHT
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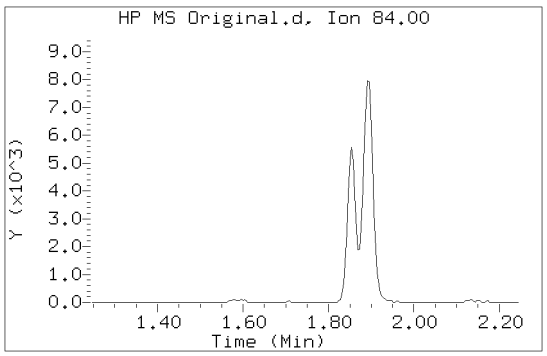
07-May-2024
16:11
firat
tastan



AFTER

MASS
84
AREA
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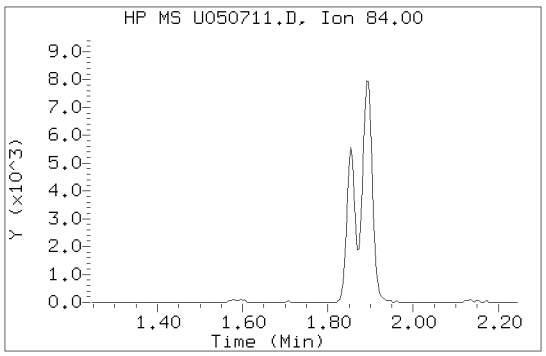
HEIGHT
0
28-May-2024
10:32
firat



Data File: \\nahstws005\Target\chem\voa9.i\U240507.b\U050713.D Page 1
Report Date: 07-May-2024 16:20

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240507.b\U050713.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-MAY-2024 16:03
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\U240507.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: 2 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	1.000	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	65048			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12758			15.00- 40.00	19.61
9.194	9.180	(0.000)	75	31632			30.00- 60.00	48.63
9.194	9.180	(0.000)	96	4796			5.00- 9.00	7.37
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	54360			50.00- 0.00	83.57
9.194	9.180	(0.000)	175	4579			5.00- 9.00	8.42
9.194	9.180	(0.000)	176	52440			95.00- 101.00	96.47
9.194	9.180	(0.000)	177	3677			5.00- 9.00	7.01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.61
75	30.00 - 60.00% of mass 95	48.63
96	5.00 - 9.00% of mass 95	7.37
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.57
175	5.00 - 9.00% of mass 174	7.04 (8.42)
176	95.00 - 101.00% of mass 174	80.62 (96.47)
177	5.00 - 9.00% of mass 176	5.65 (7.01)

Data File: U050713.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.20	82	57.90	111	87.00	2732	136.90	143
36.00	661	59.90	701	87.90	2805	140.00	82
37.10	3379	61.00	3169	91.00	281	140.90	567
38.00	2817	62.00	3127	92.00	2005	142.00	81
39.00	1404	63.00	2381	93.00	2872	142.90	691
39.90	212	64.00	276	94.00	8060	143.70	63
41.00	77	65.10	144	95.00	65048	144.90	61
41.80	51	66.90	209	96.00	4796	145.90	134
42.30	54	68.00	6713	97.10	144	146.80	66
42.90	96	69.00	6837	103.80	280	147.80	164
44.00	591	70.00	601	104.90	75	149.90	62
45.00	693	71.90	369	105.90	275	153.00	56
46.10	82	73.00	2829	106.70	86	154.00	83
47.00	1018	74.00	10991	110.90	79	154.80	184
48.00	486	75.00	31632	114.80	87	156.90	124
49.00	2800	76.00	2966	115.90	251	160.90	61
50.00	12758	76.90	460	116.90	426	171.90	269
51.00	4025	77.90	283	117.90	256	173.90	54360
52.00	172	78.90	1690	118.90	430	175.00	4579
52.80	59	79.90	518	127.90	222	175.90	52440
53.30	64	80.90	1892	128.70	87	176.90	3677
55.10	246	81.90	459	130.00	244	177.90	123
56.00	983	82.90	90	130.90	66		
57.00	1811	85.90	109	135.00	101		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240507.b\u050713.d Page 1

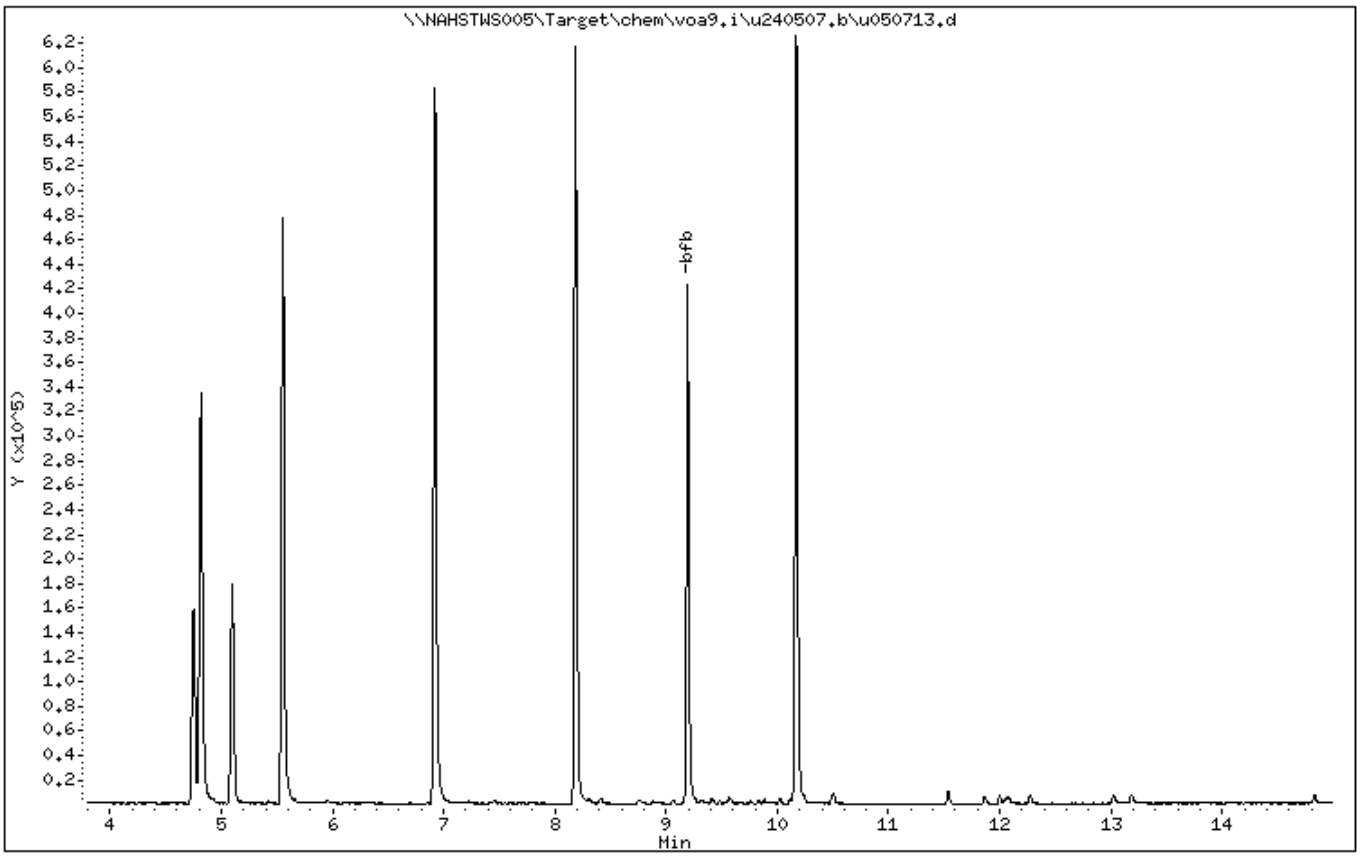
Date : 07-MAY-2024 16:03

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\U240507.b\U050714.D Page 1
Report Date: 28-May-2024 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Lab Smp Id: VSTD050
Inj Date : 07-MAY-2024 16:25
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 28-May-2024 11:07 rucha.pate Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.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	4.815	(1.000)	263402	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	62123	40.5905	40.59
3 Chloromethane	50	1.299	1.299	(0.270)	89391	43.4753	43.47
4 Propionitrile	54	4.336	4.336	(0.900)	149112	456.511	456.51
5 Vinyl Chloride	62	1.378	1.378	(0.286)	85351	40.9728	40.97
6 Bromomethane	94	1.614	1.614	(0.335)	55593	50.9801	50.98
7 Chloroethane	64	1.696	1.696	(0.352)	59189	41.6704	41.67
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	99431	40.7482	40.74
9 Acrolein	56	2.266	2.266	(0.471)	8164	83.6228	83.62
10 Acetone	43	2.409	2.409	(0.500)	58043	86.4697	86.46
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	58944	43.0109	43.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	251700	905.739	905.73
13 Acetonitrile	39	2.671	2.671	(0.555)	113839	435.898	435.89
14 Allyl Chloride	41	2.671	2.671	(0.555)	274066	41.1522	41.15
15 Iodomethane	142	2.469	2.469	(0.513)	135877	82.5805	82.58(M)
16 Acrylonitrile	53	3.065	3.065	(0.636)	79407	92.4495	92.44
17 Methylene Chloride	84	2.795	2.795	(0.580)	77043	42.8101	42.81
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	259774	42.2857	42.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	348774	84.2338	84.23
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63994	41.6142	41.61

21 Vinyl Acetate	43	4.339	4.339 (0.901)	91824	81.1187	81.11
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	122395	41.6684	41.66

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	2.158	2.158	(0.448)	26008	43.0721	43.07(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	69162	83.1192	83.11
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	62512	43.5837	43.58(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	75121	40.0205	40.02(M)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	74115	41.7076	41.70
	28 Chloroform	83	4.572	4.572	(0.949)	121586	40.1433	40.14
	29 Bromochloromethane	128	4.467	4.467	(0.928)	36929	42.7149	42.71
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	95714	50.5009	50.50
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	92283	42.6043	42.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	89645	40.5006	40.50
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	100617	40.1722	40.17
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	73910	41.0524	41.05
$	35 1,2-Dichloroethane-d4	65	5.097	5.097	(1.058)	114335	50.2286	50.22
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	384476	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	278028	40.3262	40.32
	38 Trichloroethene	130	5.786	5.786	(1.043)	68779	41.7071	41.70
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	83026	42.4292	42.42
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	41223	44.8880	44.88
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.195)	1629	106.933	106.93(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	74741	41.4661	41.46
	43 2-Nitropropane	43	6.506	6.506	(1.351)	21265	41.2301	41.23
	44 Dibromomethane	93	6.116	6.116	(1.102)	45763	40.4529	40.45
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	171262	88.4117	88.41
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	99960	41.9733	41.97
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	342608	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	354217	51.1050	51.10
	49 Ethyl Methacrylate	69	7.215	7.215	(1.300)	113341	40.2765	40.27
	50 Toluene	91	6.978	6.978	(0.853)	292173	43.1840	43.18
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	81732	42.0870	42.08
	52 2-Hexanone	43	7.589	7.589	(0.927)	113712	81.5568	81.55
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	56758	40.4093	40.40
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	123682	41.8301	41.83
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	68102	41.1469	41.14
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	54081	42.6882	42.68
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	68331	43.3847	43.38
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	64537	40.5826	40.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	190161	40.4373	40.43
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	65014	41.7288	41.72
	61 Ethylbenzene	106	8.305	8.305	(1.015)	95921	43.1990	43.19
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	239036	89.0404	89.04
	63 o-Xylene	106	8.744	8.744	(1.068)	118762	44.2916	44.29
	64 Styrene	104	8.759	8.759	(1.070)	210441	46.4403	46.44
	66 Bromoform	173	8.916	8.916	(1.089)	41683	41.8489	41.84
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	293838	45.5722	45.57
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	97668	41.3612	41.36
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131348	51.1788	51.17
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186247	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	96067	40.4989	40.49
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	20970	42.2149	42.21
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	336648	44.8699	44.86
	74 Bromobenzene	156	9.318	9.318	(0.916)	82267	40.6967	40.69
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	243586	44.9159	44.91

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	206463	40.6765	40.67
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	242939	42.5204	42.52

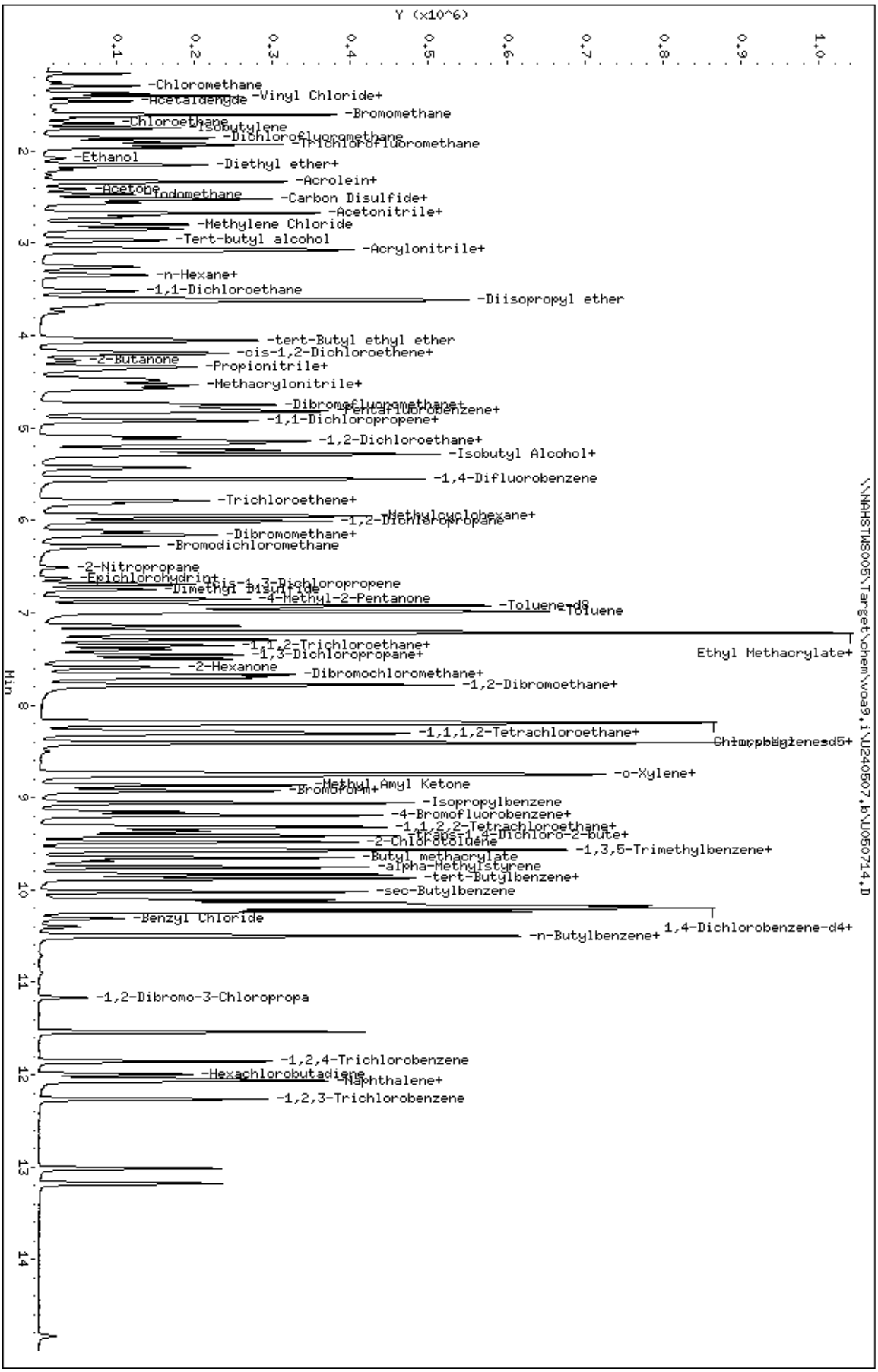
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	203175	44.6296	44.62
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	243909	45.9403	45.94
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	267742	44.6316	44.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	240742	46.0758	46.07
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	144060	40.7497	40.74
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	149489	41.0815	41.08
86	Benzyl Chloride	91	10.311	10.311	(1.260)	84492	41.4188	41.41(M)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	203952	41.5912	41.59
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	144128	41.3174	41.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12294	40.7287	40.72
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	91044	42.1772	42.17
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	36889	40.8698	40.86
92	Naphthalene	128	12.065	12.065	(1.187)	243506	40.3354	40.33
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	87699	41.7907	41.79
146	Methyl acetate	43	2.712	2.712	(0.563)	126574	42.5824	42.58
138	Freon TF	101	2.337	2.337	(0.485)	57443	40.9874	40.98
141	Cyclohexane	56	4.785	4.785	(0.994)	103088	40.1755	40.17
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	38460	92.2102	92.21
147	Methylcyclohexane	55	5.947	5.947	(1.072)	234441	49.3137	49.31
135	1,4-Dioxane	88	6.165	6.165	(1.280)	24227	856.716	856.71
132	n-Butanol	56	5.820	5.820	(1.209)	58544	828.382	828.38
136	n-Hexane	57	3.342	3.342	(0.694)	69381	40.5903	40.59
139	Diethyl ether	59	2.146	2.146	(0.446)	77216	41.7787	41.77
148	Tert-butyl alcohol	59	2.964	2.964	(0.615)	172632	882.832	882.83
149	Isopropyl alcohol	45	2.559	2.559	(0.531)	144415	892.528	892.52
152	Amyl alcohol	42	7.394	7.394	(0.903)	63757	870.731	870.73
156	Diisopropyl ether	45	3.620	3.620	(0.752)	324723	43.5832	43.58
162	Butyl acrylate	55	8.733	8.733	(1.067)	179978	44.7750	44.77
187	n-Amyl acetate	43	8.931	8.931	(1.091)	141502	40.1816	40.18
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	414438	45.0742	45.07
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	317727	45.9672	45.96
167	Ethanol	45	2.083	2.083	(0.433)	26643	881.279	881.27
172	tert-Butyl formate	59	5.239	5.239	(1.088)	158576	84.3449	84.34
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	199397	850.339	850.33
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	267074	44.9167	44.91
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	272642	45.1653	45.16
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	158576	877.288	877.28
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	568542	829.244	829.24
140	1,3-Butadiene	54	1.404	1.404	(0.292)	70517	41.3237	41.32
158	Dichlorofluoromethane	67	1.858	1.858	(0.386)	162117	43.3641	43.36
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29141	177.510	177.51
M 94	1,2-Dichloroethylene (total)	96				138109	83.3314	83.33
M 95	Xylenes (total)	106				357798	131.445	131.44
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	115687	40.5415	40.54
130	Ethyl Acetate	43	4.339	4.339	(0.901)	91824	40.8510	40.85
131	Methyl Acrylate	55	4.369	4.369	(0.907)	119669	45.3325	45.33
189	n-Butyl acetate	43	7.706	7.706	(0.941)	137040	40.3465	40.34
134	Cyclohexanone	55	9.153	9.153	(0.900)	74037	840.779	840.77
185	Isoprene	39	2.158	2.158	(0.448)	17847	42.0819	42.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	247635	45.4703	45.47
150	Allyl alcohol	57	3.342	3.342	(0.694)	69381	811.806	811.80
194	Acetaldehyde	44	1.460	1.460	(0.303)	85948	202.021	202.02

195 Methyl Amyl Ketone	43	8.868	8.868 (1.083)	198180	41.5898	41.58
200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	56102	44.5069	44.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
202 Isobutylene	41	1.753	1.753	(0.364)	46988	43.7578	43.75(M)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	234441	48.7550	48.75
163 Butyl methacrylate	41	9.647	9.647	(0.949)	104818	43.4636	43.46
159 Propylene oxide	43	2.199	2.199	(0.457)	14462	81.6514	81.65
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	96302	43.6616	43.66

QC Flag Legend

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



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Date : 07-MAY-2024 16:25
Client ID:
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

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

HS24050146 Wetchem 9056_anions_W

ALS WO# HS24050146

Sequence: 050324
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	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
	HS24050146-01		Unknown	RD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050146-01DF20		Unknown	RD2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	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

Sequence: 050324
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	Volume	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	4/3/2024 8:55:18 AM -05
Anions Processing Method ISO		STD2	5.0	Finished	4/3/2024 9:01:14 AM -05
Anions Processing Method ISO		STD3	5.0	Finished	4/3/2024 9:07:10 AM -05
Anions Processing Method ISO		STD4	5.0	Finished	4/3/2024 9:13:07 AM -05
Anions Processing Method ISO		STD5	5.0	Finished	4/3/2024 9:19:03 AM -05
Anions Processing Method ISO		STD6	5.0	Finished	4/3/2024 9:24:59 AM -05
Anions Processing Method ISO		ICV	5.0	Finished	4/3/2024 9:36:52 AM -05
Anions Processing Method ISO		ICB	5.0	Finished	4/3/2024 10:21:47 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/3/2024 1:33:41 PM -05
Anions Processing Method ISO		CCB	5.0	Finished	5/3/2024 1:39:35 PM -05
Anions Processing Method ISO		MBLK	5.0	Finished	5/3/2024 1:51:21 PM -05
Anions Processing Method ISO		LCS	5.0	Finished	5/3/2024 1:57:15 PM -05
Anions Processing Method ISO		CCV	5.0	Finished	5/3/2024 3:07:49 PM -05
Anions Processing Method ISO		CCB	5.0	Finished	5/3/2024 3:13:43 PM -05
Anions Processing Method ISO		HS24050146-01	5.0	Finished	5/3/2024 3:31:23 PM -05
Anions Processing Method ISO		HS24050146-01DF20	5.0	Finished	5/3/2024 3:37:16 PM -05
Anions Processing Method ISO		CCV1	5.0	Finished	5/3/2024 4:30:16 PM -05
Anions Processing Method ISO		CCB	5.0	Finished	5/3/2024 4:36:09 PM -05
Anions Processing Method ISO		CCV	5.0	Finished	5/3/2024 5:58:36 PM -05
Anions Processing Method ISO		CCB	5.0	Finished	5/3/2024 6:04:30 PM -05

Sequence: 050324
Injection #6: STD6

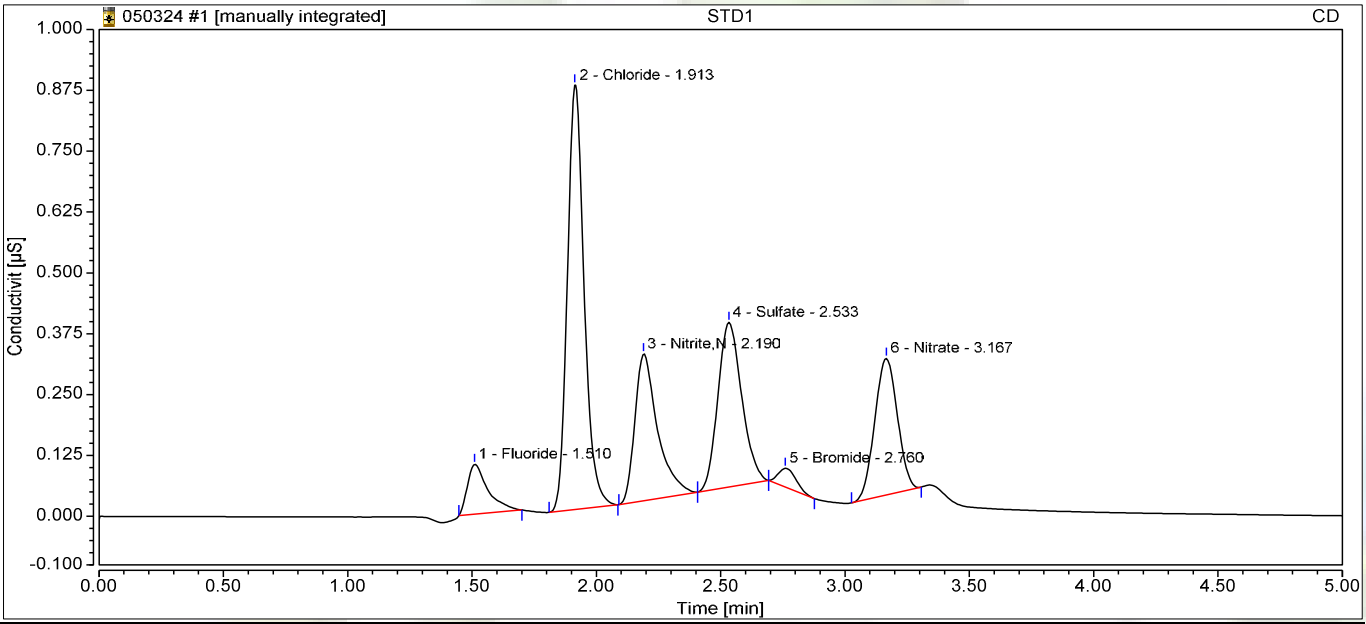
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***20.6898***	***0.99843***	***-0.0146***	***0.1949***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.4996	0.99990	-0.0096	0.1522	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	2.8239	0.99996	-0.0010	0.3209	-0.0035
4	Sulfate	Quad, WithOffset, 1/A	Area	6	6.9024	0.99984	-0.0083	0.0870	0.0001
5	Bromide	Quad, WithOffset, 1/A	Area	6	1.5271	0.99999	-0.0001	0.0340	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.7942	0.99983	-0.0032	0.3234	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	8.9029	0.99911	-0.0026	0.0210	-0.0003
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.0564	0.0307	0.0000
Maximum					**20.6898**	1.00000			
Minimum					1.5271	**0.99843**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*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:	**04/03/2024 08:55**	*Sample Weight:*	**1.0000**

Run Time:

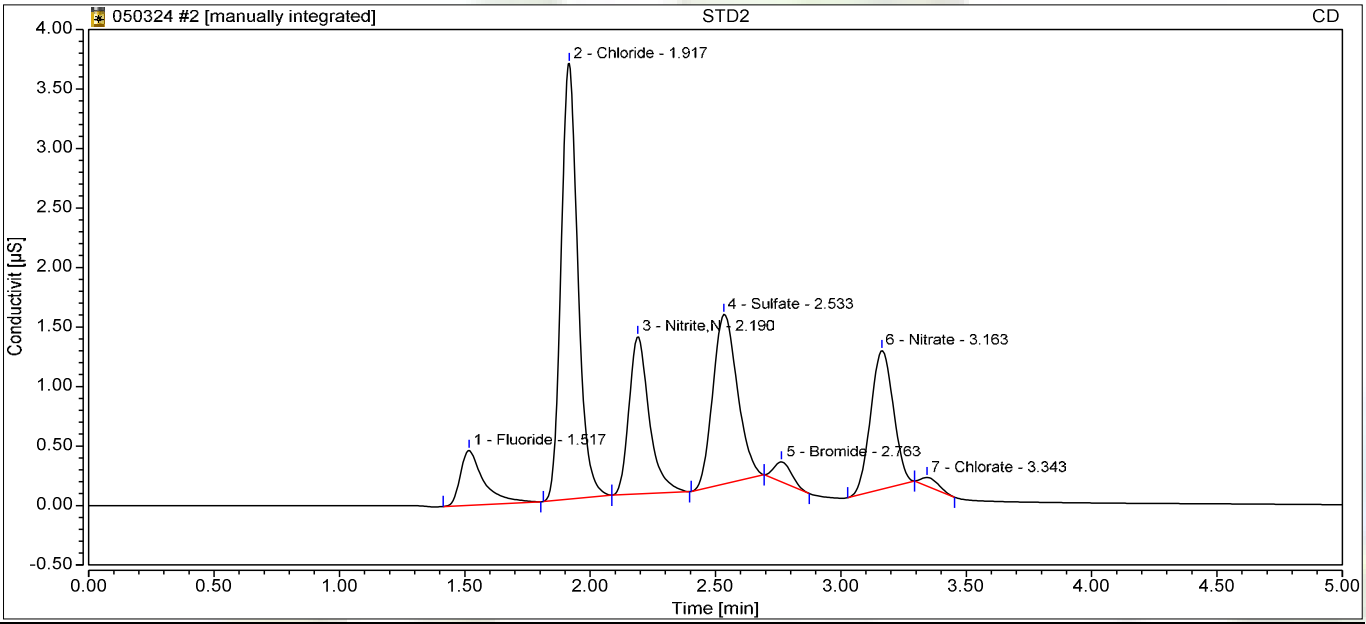


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB*	0.010	0.1255	0.1255	1.0000
2	1.91	Chloride	BMB	0.068	0.5104	0.5104	1.0000
3	2.19	Nitrite,N	BMB	0.032	0.1022	0.1022	1.0000
4	2.53	Sulfate	BMB	0.037	0.5258	0.5258	1.0000
5	2.76	Bromide	BMB	0.003	0.0977	0.0977	1.0000
6	3.17	Nitrate	BMB	0.030	0.1018	0.1018	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**	**0.180**		**1.46**	

2 STD2			
Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*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:	**04/03/2024 09:01**	*Sample Weight:*	**1.0000**

Run Time:



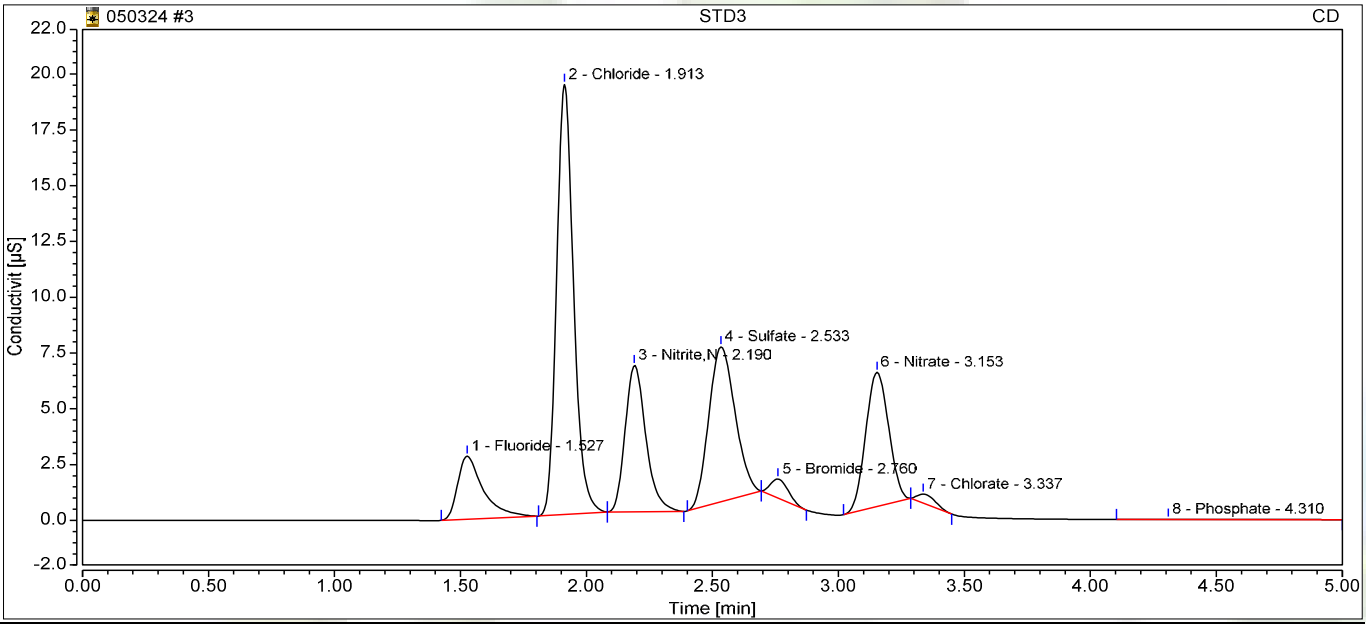
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.050	0.3309	0.3309	1.0000
2	1.92	Chloride	BMB	0.285	1.9321	1.9321	1.0000
3	2.19	Nitrite,N	BMB	0.124	0.3897	0.3897	1.0000
4	2.53	Sulfate	BMB	0.162	1.9522	1.9522	1.0000
5	2.76	Bromide	BMB	0.014	0.4090	0.4090	1.0000
6	3.16	Nitrate	BMB	0.122	0.3886	0.3886	1.0000
7	3.34	Chlorate	BMB	0.006	0.4212	0.4212	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.762**		**5.82**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*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:	**04/03/2024 09:07**	*Sample Weight:*	**1.0000**

Run Time:



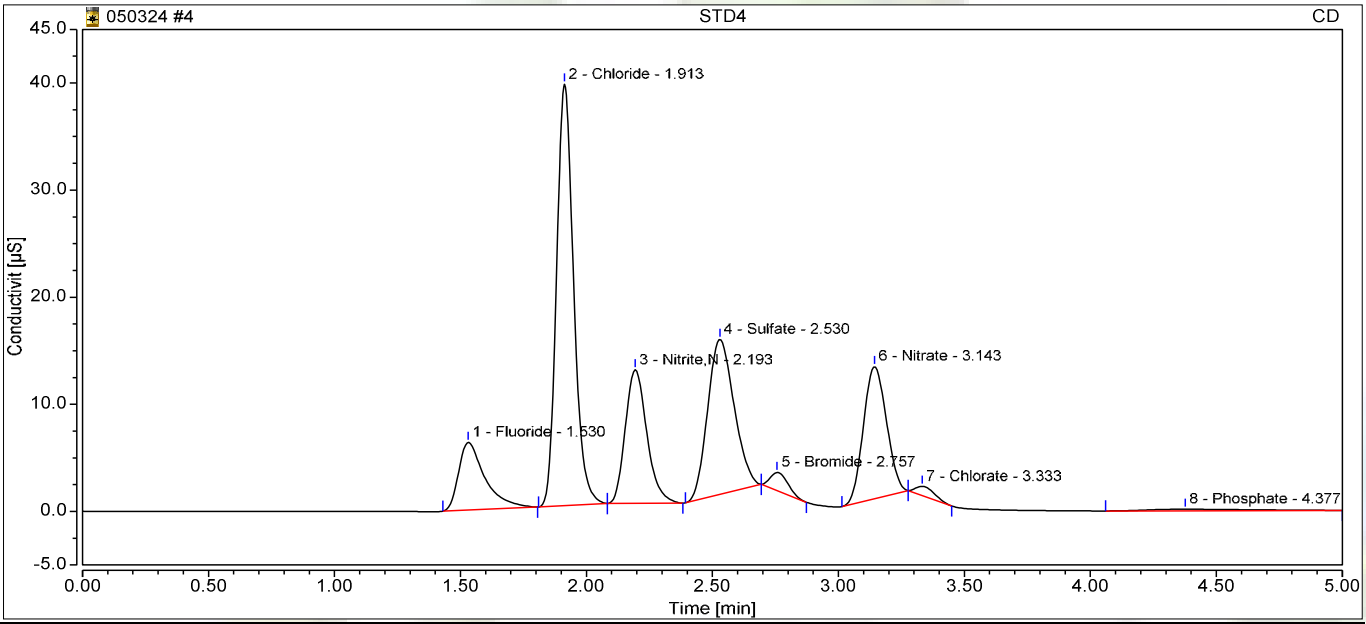
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.332	1.7778	1.7778	1.0000
2	1.91	Chloride	BMB	1.504	9.9432	9.9432	1.0000
3	2.19	Nitrite,N	BMB	0.625	1.9938	1.9938	1.0000
4	2.53	Sulfate	BMB	0.839	9.6367	9.6367	1.0000
5	2.76	Bromide	BMB	0.070	2.0082	2.0082	1.0000
6	3.15	Nitrate	BMB	0.637	1.9783	1.9783	1.0000
7	3.34	Chlorate	BMB	0.035	1.8534	1.8534	1.0000
8	4.31	Phosphate	BMB	0.005	2.0000	2.0000	1.0000
Total:			**0.000**	**4.046**		**31.19**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*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:	**04/03/2024 09:13**	*Sample Weight:*	**1.0000**

Run Time:



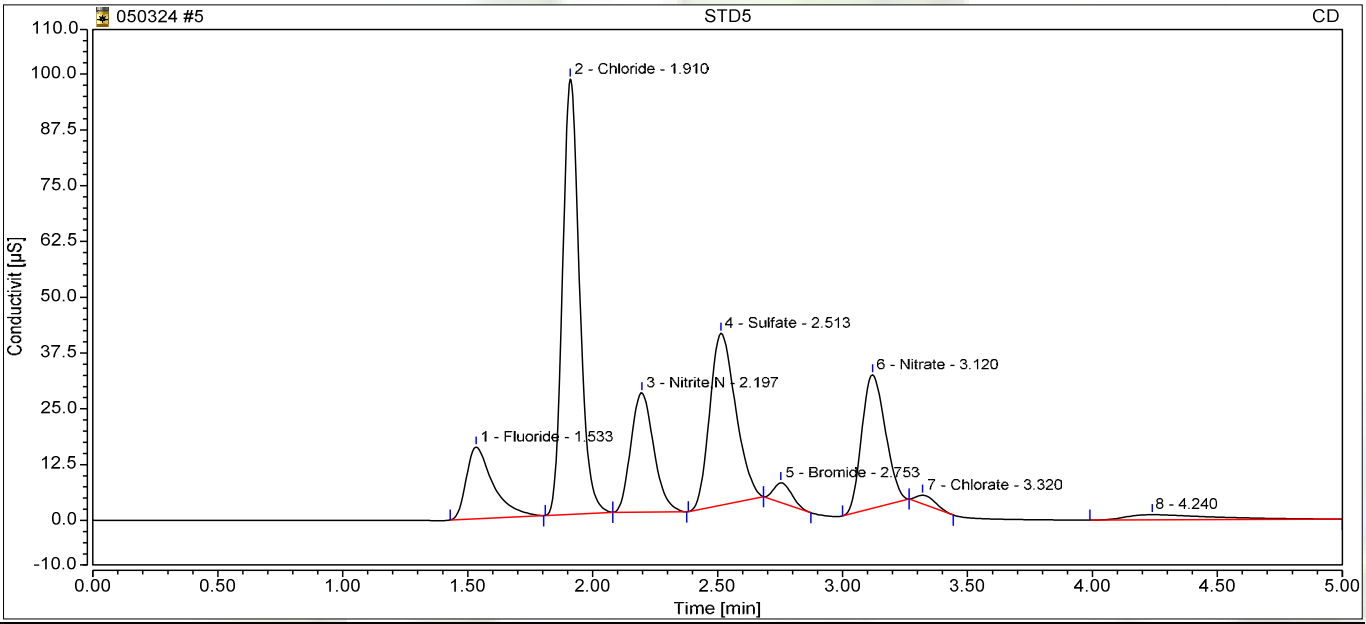
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.765	3.9993	3.9993	1.0000
2	1.91	Chloride	BMB	3.084	20.3219	20.3219	1.0000
3	2.19	Nitrite,N	BMB	1.239	4.0454	4.0454	1.0000
4	2.53	Sulfate	BMB	1.763	19.9326	19.9326	1.0000
5	2.76	Bromide	BMB	0.141	3.9866	3.9866	1.0000
6	3.14	Nitrate	BMB	1.311	4.0629	4.0629	1.0000
7	3.33	Chlorate	BMB	0.077	4.0038	4.0038	1.0000
8	4.38	Phosphate	BMB	0.067	4.0000	4.0000	1.0000
Total:			**0.000**	**8.445**		**64.35**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*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:	**04/03/2024 09:19**	*Sample Weight:*	**1.0000**

Run Time:



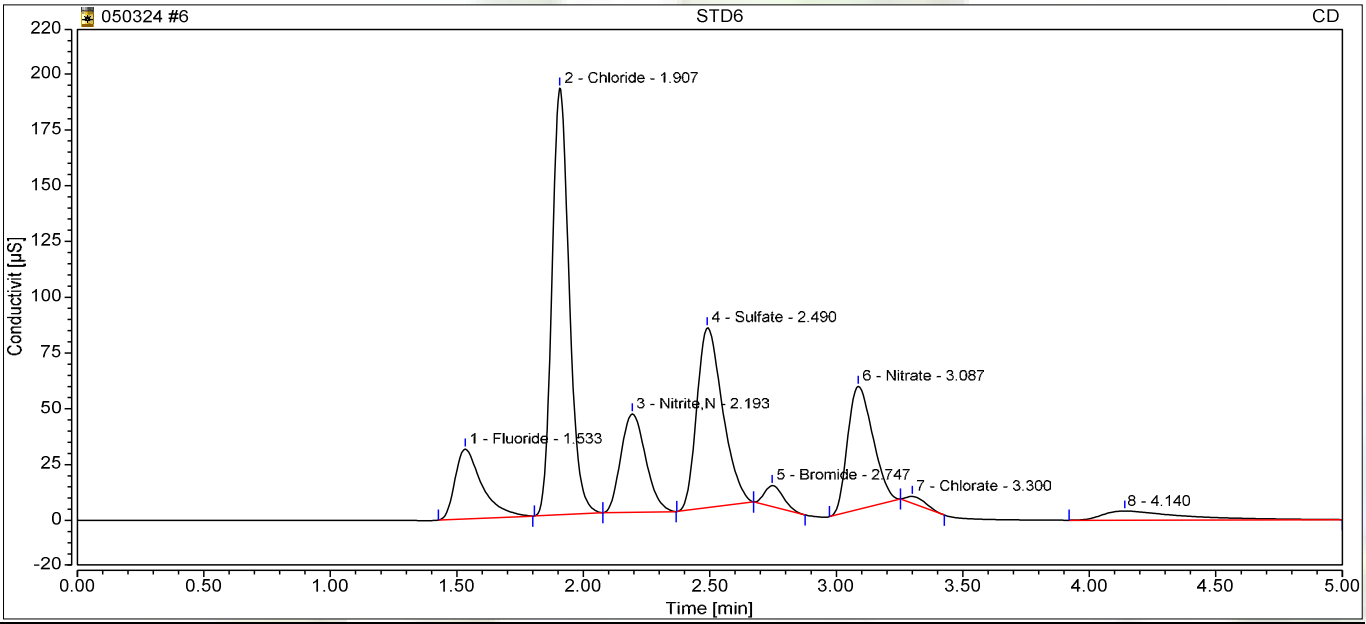
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.995	10.3144	10.3144	1.0000
2	1.91	Chloride	BMB	7.673	50.4728	50.4728	1.0000
3	2.20	Nitrite,N	BMB	2.842	9.9493	9.9493	1.0000
4	2.51	Sulfate	BMB	4.641	50.7445	50.7445	1.0000
5	2.75	Bromide	BMB	0.373	9.9956	9.9956	1.0000
6	3.12	Nitrate	BMB	3.281	10.1555	10.1555	1.0000
7	3.32	Chlorate	BMB	0.181	10.2906	10.2906	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**20.986**		**151.92**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*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:	**04/03/2024 09:24**	*Sample Weight:*	**1.0000**

Run Time:



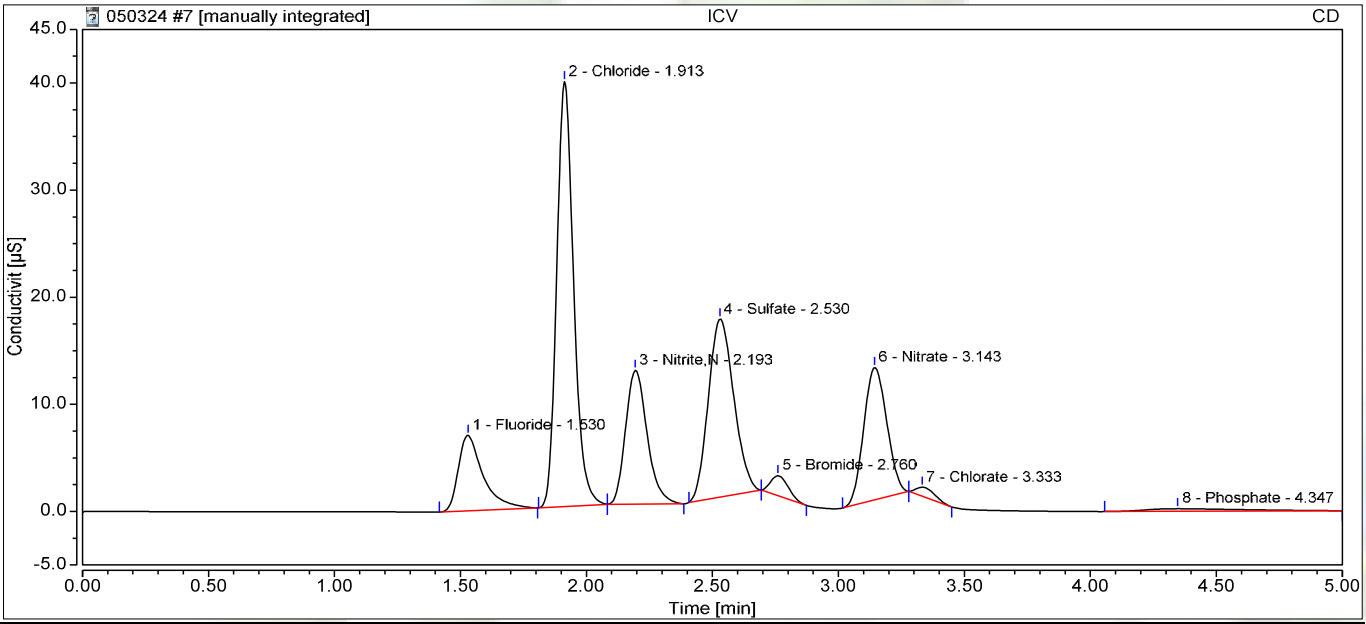
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	3.873	19.9521	19.9521	1.0000
2	1.91	Chloride	BMB	15.108	99.3195	99.3195	1.0000
3	2.19	Nitrite,N	BMB	5.009	20.0220	20.0220	1.0000
4	2.49	Sulfate	BMB	9.566	99.7024	99.7024	1.0000
5	2.75	Bromide	BMB	0.814	20.0032	20.0032	1.0000
6	3.09	Nitrate	BMB	6.404	19.8130	19.8130	1.0000
7	3.30	Chlorate	BMB	0.290	19.7813	19.7813	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**41.065**		**298.59**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*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:	**04/03/2024 09:36**	*Sample Weight:*	**1.0000**

Run Time:



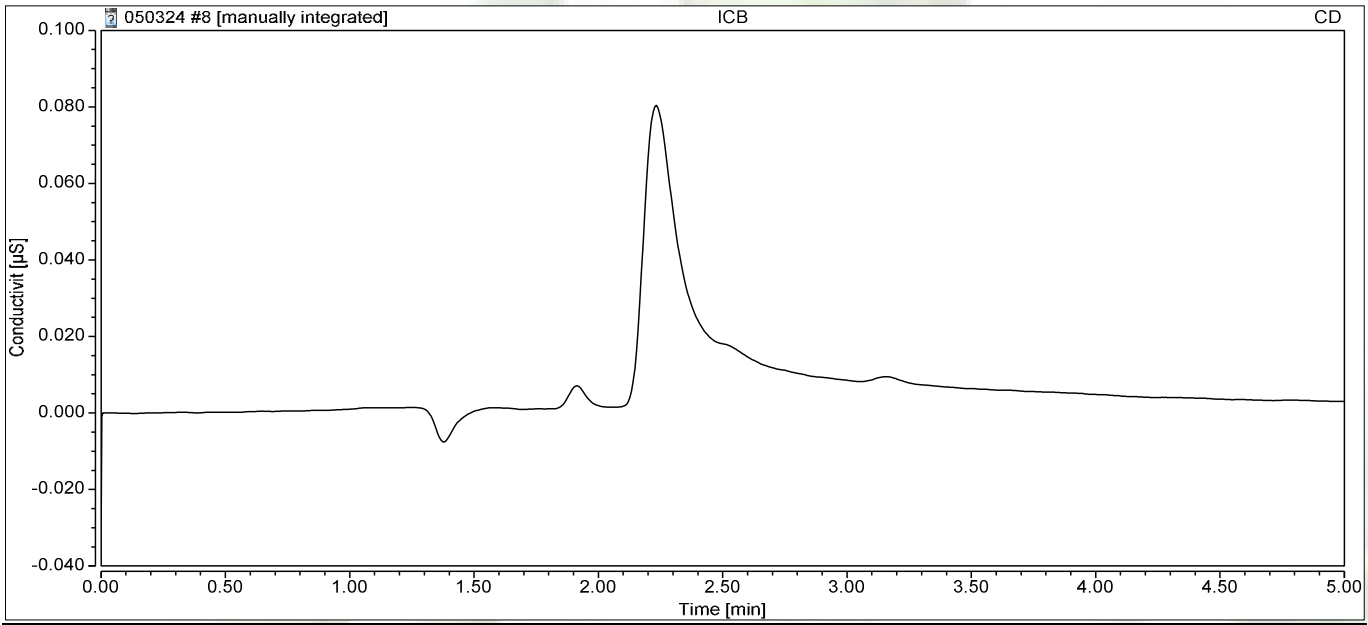
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.804	4.1985	4.1985	1.0000
2	1.91	Chloride	BMB	3.080	20.2963	20.2963	1.0000
3	2.19	Nitrite,N	BMB	1.241	4.0504	4.0504	1.0000
4	2.53	Sulfate	BMB*	1.942	21.9080	21.9080	1.0000
5	2.76	Bromide	BMB	0.153	4.3302	4.3302	1.0000
6	3.14	Nitrate	BMB	1.314	4.0742	4.0742	1.0000
7	3.33	Chlorate	BMB	0.075	3.9407	3.9407	1.0000
8	4.35	Phosphate	BMB	0.109	5.3705	5.3705	1.0000
Total:			**0.000**	**8.718**		**68.17**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*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:	**04/03/2024 10:21**	*Sample Weight:*	**1.0000**

Run Time:



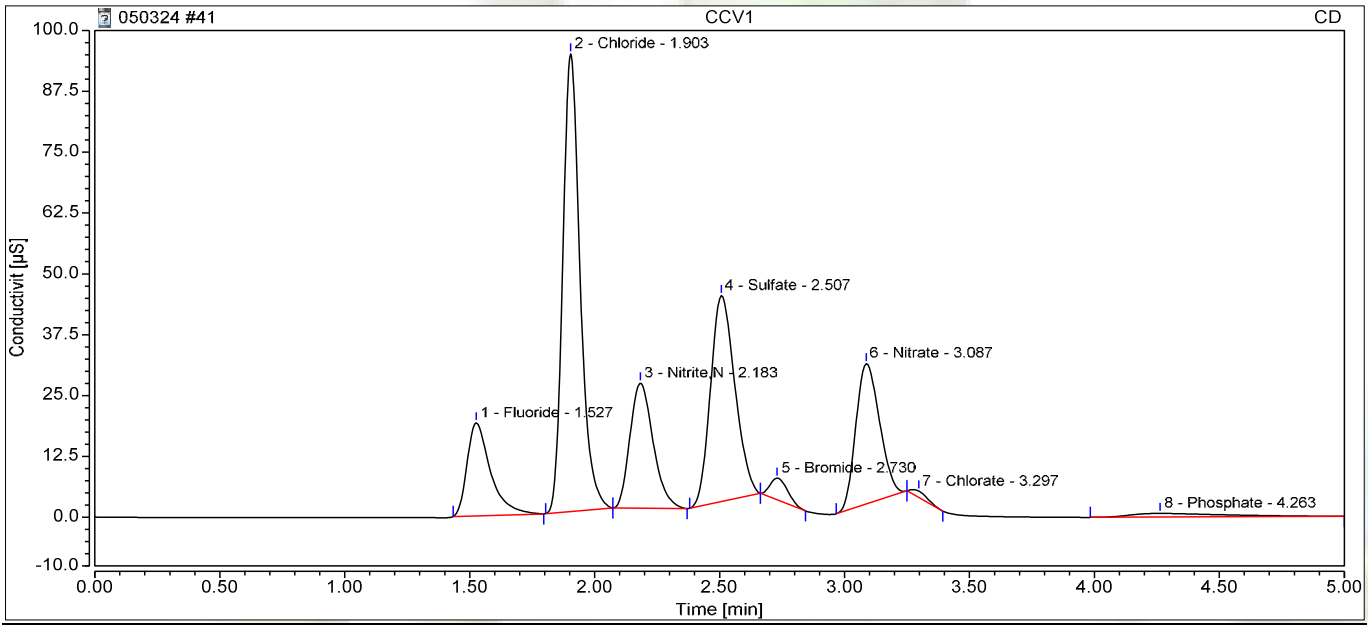
Integration Results

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**	

41 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:	**05/03/2024 13:33**	*Sample Weight:*	**1.0000**

Run Time:



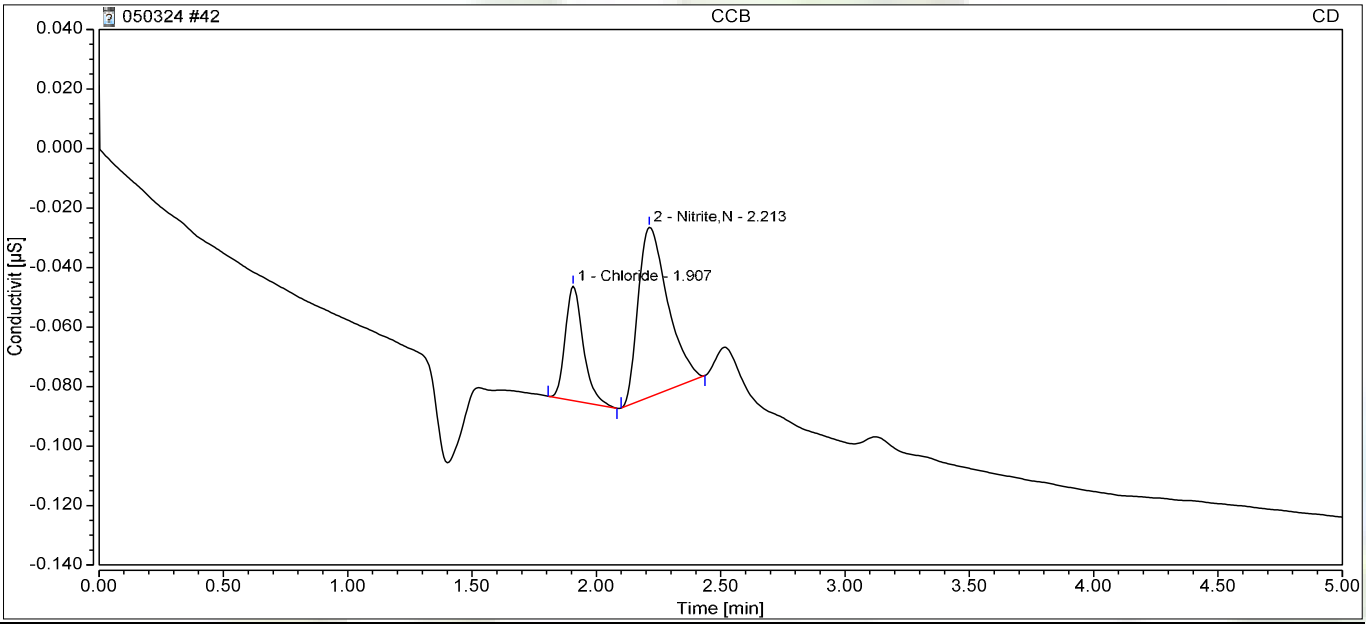
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.073	10.7130	10.7130	1.0000
2	1.90	Chloride	BMB	7.565	49.7617	49.7617	1.0000
3	2.18	Nitrite,N	BMB	2.765	9.6447	9.6447	1.0000
4	2.51	Sulfate	BMB	4.784	52.2268	52.2268	1.0000
5	2.73	Bromide	BMB	0.366	9.8085	9.8085	1.0000
6	3.09	Nitrate	BMB	3.173	9.8234	9.8234	1.0000
7	3.30	Chlorate	BMB	0.092	4.8723	4.8723	1.0000
8	4.26	Phosphate	BMB	0.343	13.0029	13.0029	1.0000
Total:			**0.000**	**21.162**		**159.85**	

42 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:	**05/03/2024 13:39**	*Sample Weight:*	**1.0000**

Run Time:



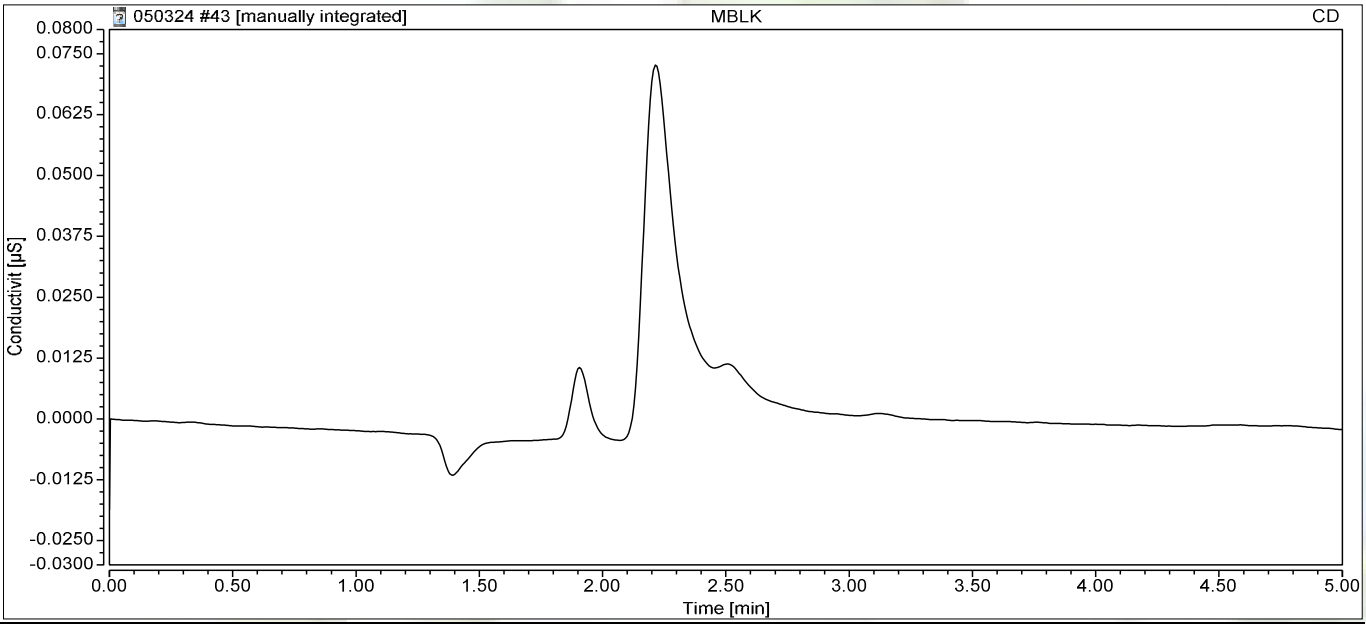
Integration Results

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	1.91	Chloride	BMB	0.003	0.0842	0.0842	1.0000
2	2.21	Nitrite,N	BMB	0.008	0.0276	0.0276	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**	**0.011**		**0.11**	

43 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:	**05/03/2024 13:51**	*Sample Weight:*	**1.0000**

Run Time:



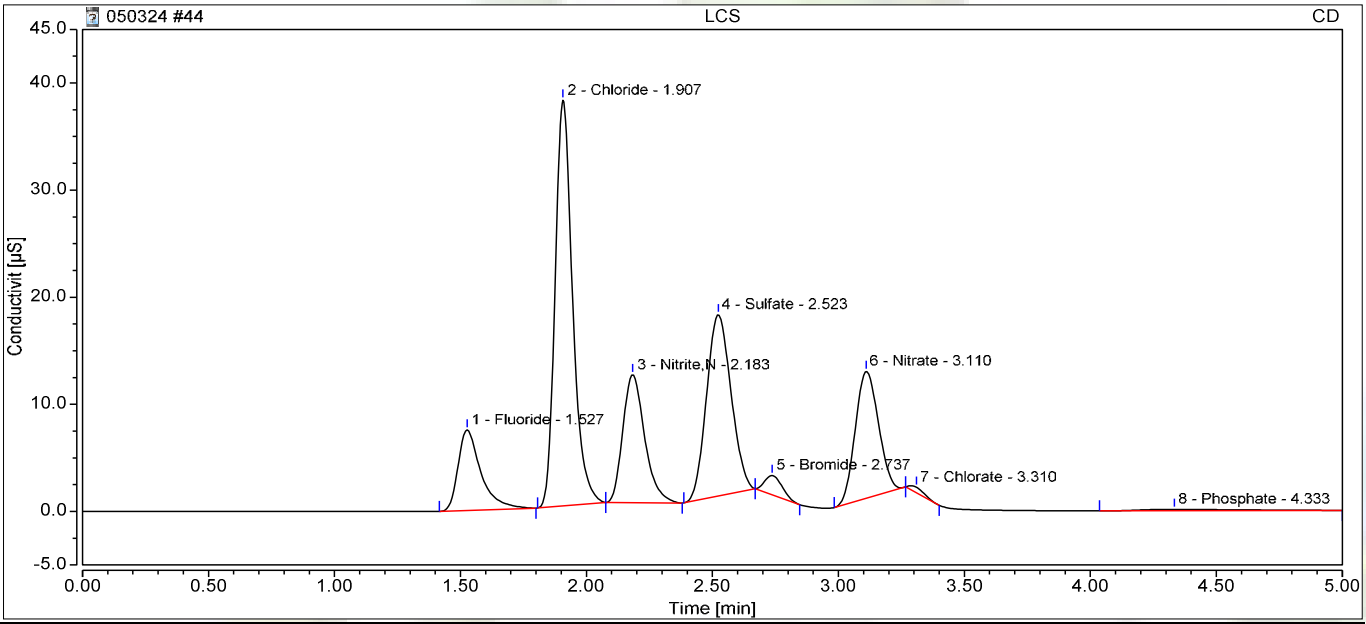
Integration Results

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**	

44 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:	**05/03/2024 13:57**	*Sample Weight:*	**1.0000**

Run Time:



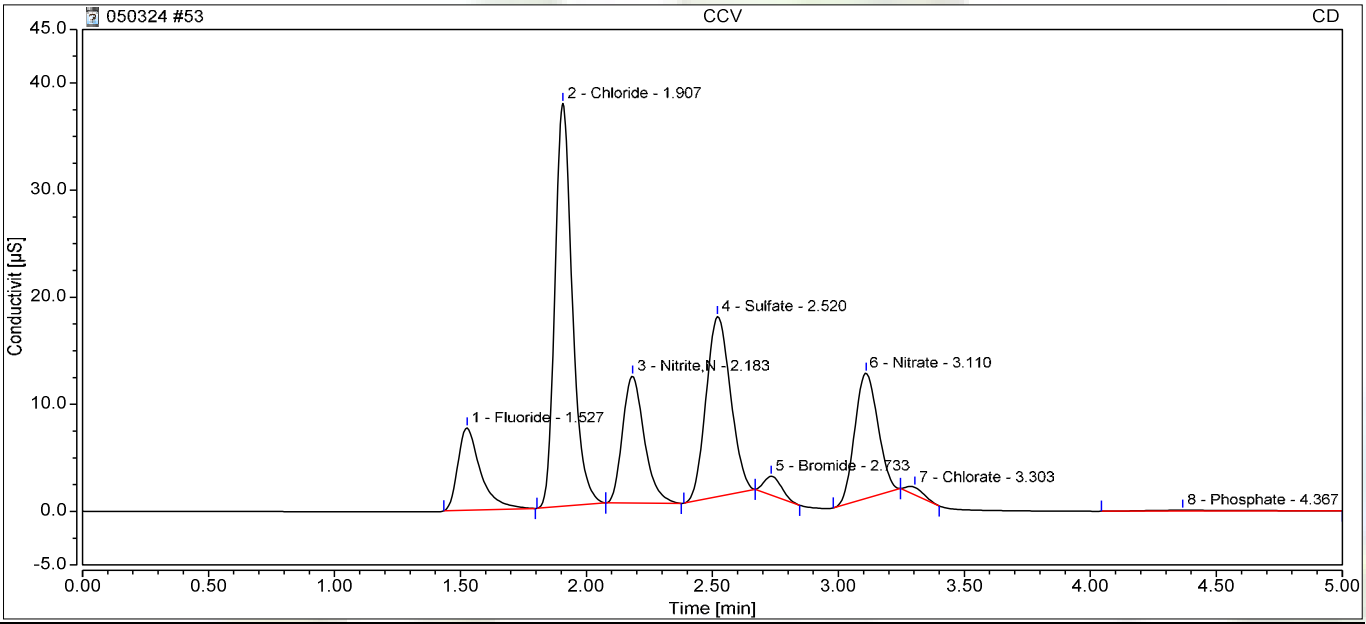
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.796	4.1574	4.1574	1.0000
2	1.91	Chloride	BMB	3.033	19.9883	19.9883	1.0000
3	2.18	Nitrite,N	BMB	1.200	3.9119	3.9119	1.0000
4	2.52	Sulfate	BMB	1.910	21.5576	21.5576	1.0000
5	2.74	Bromide	BMB	0.146	4.1162	4.1162	1.0000
6	3.11	Nitrate	BMB	1.266	3.9235	3.9235	1.0000
7	3.31	Chlorate	BMB	0.034	1.7915	1.7915	1.0000
8	4.33	Phosphate	BMB	0.059	3.7668	3.7668	1.0000
Total:			**0.000**	**8.443**		**63.21**	

53 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:	**05/03/2024 15:07**	*Sample Weight:*	**1.0000**

Run Time:



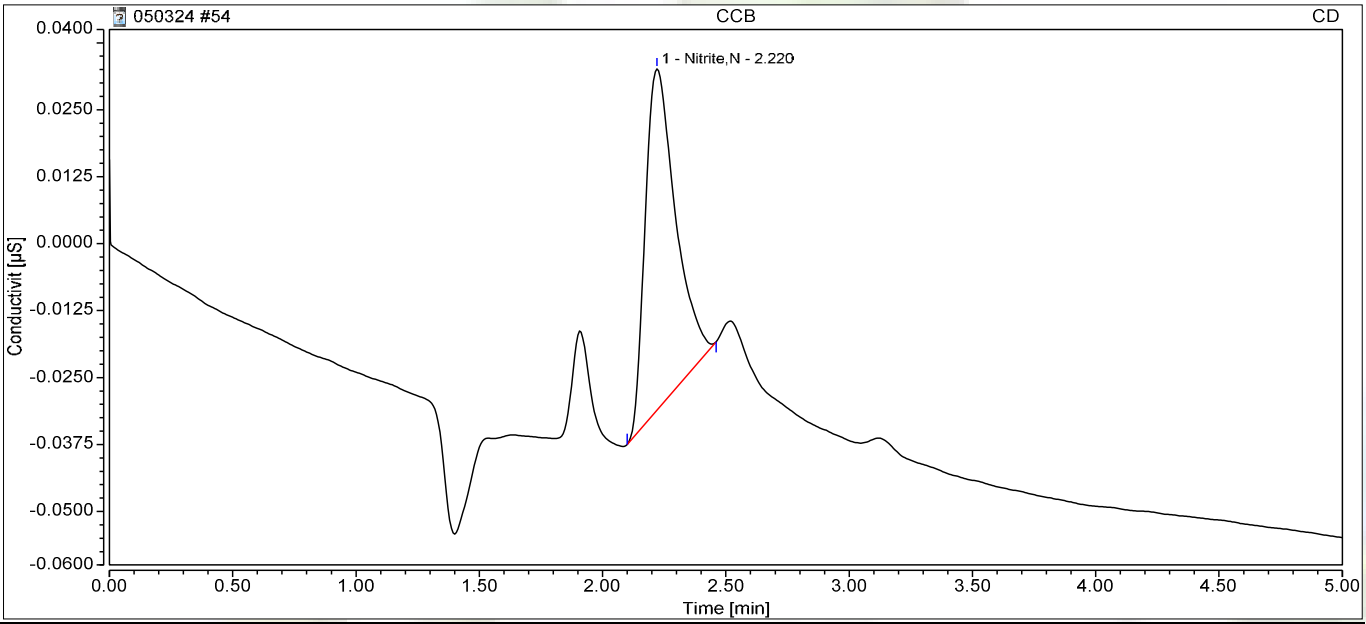
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.803	4.1959	4.1959	1.0000
2	1.91	Chloride	BMB	3.003	19.7899	19.7899	1.0000
3	2.18	Nitrite,N	BMB	1.187	3.8655	3.8655	1.0000
4	2.52	Sulfate	BMB	1.892	21.3562	21.3562	1.0000
5	2.73	Bromide	BMB	0.142	4.0199	4.0199	1.0000
6	3.11	Nitrate	BMB	1.250	3.8749	3.8749	1.0000
7	3.30	Chlorate	BMB	0.055	2.8597	2.8597	1.0000
8	4.37	Phosphate	BMB	0.040	3.1407	3.1407	1.0000
Total:			**0.000**	**8.371**		**63.10**	

54 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:	**05/03/2024 15:13**	*Sample Weight:*	**1.0000**

Run Time:

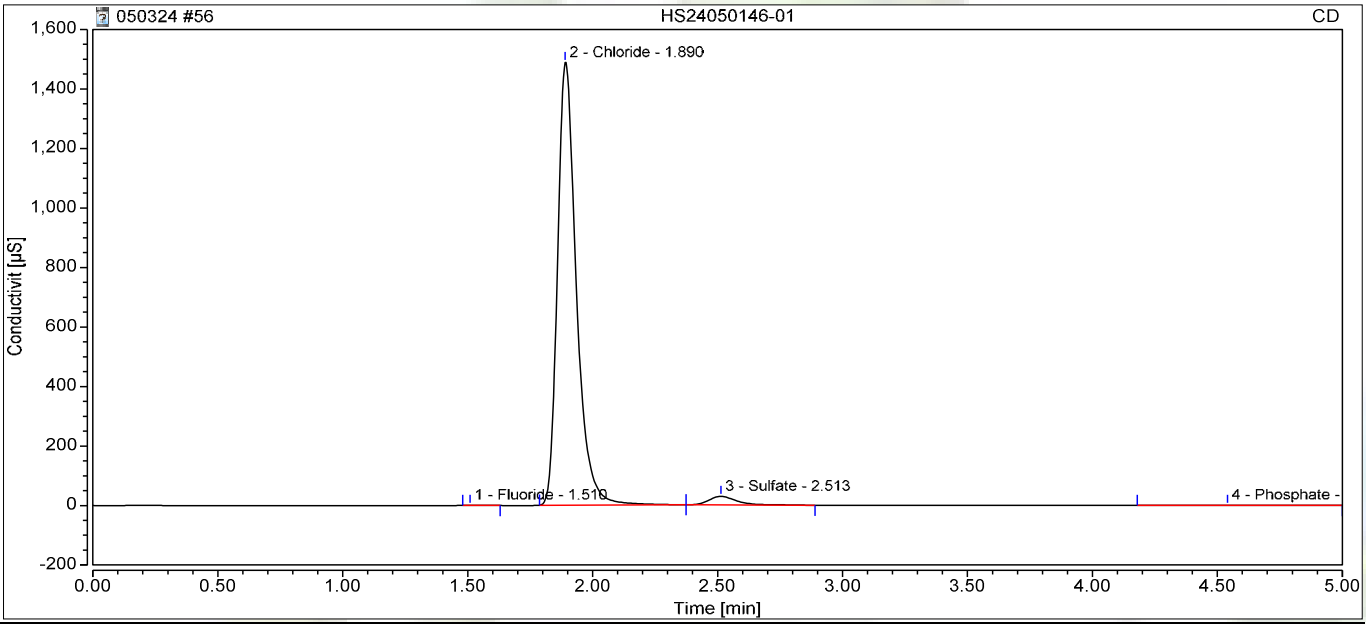


Integration Results

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	2.22	Nitrite,N	BMB	0.009	0.0313	0.0313	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**	**0.009**		**0.03**	

56 HS24050146-01			
Sample Name:	**HS24050146-01**	*Injection Volume:*	**5.00**
Vial Number:	**RD1**	*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:	**05/03/2024 15:31**	*Sample Weight:*	**1.0000**

Run Time:



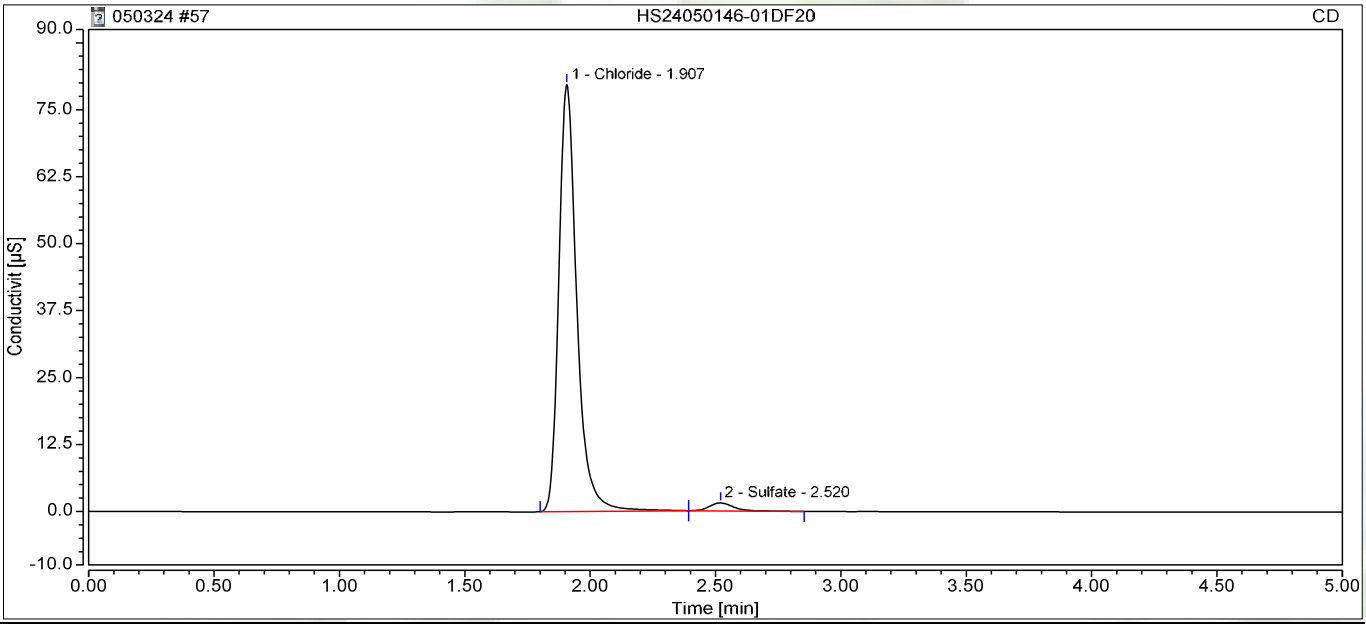
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.007	0.1089	0.1089	1.0000
2	1.89	Chloride	BMB	130.074	854.6203	854.6203	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.51	Sulfate	BMB	3.702	40.8956	40.8956	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
4	4.54	Phosphate	BMB	0.018	2.4349	2.4349	1.0000
Total:			**0.000**	**133.801**		**898.06**	

57 HS24050146-01DF20

Sample Name:	**HS24050146-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**RD2**	*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:	**05/03/2024 15:37**	*Sample Weight:*	**1.0000**

Run Time:



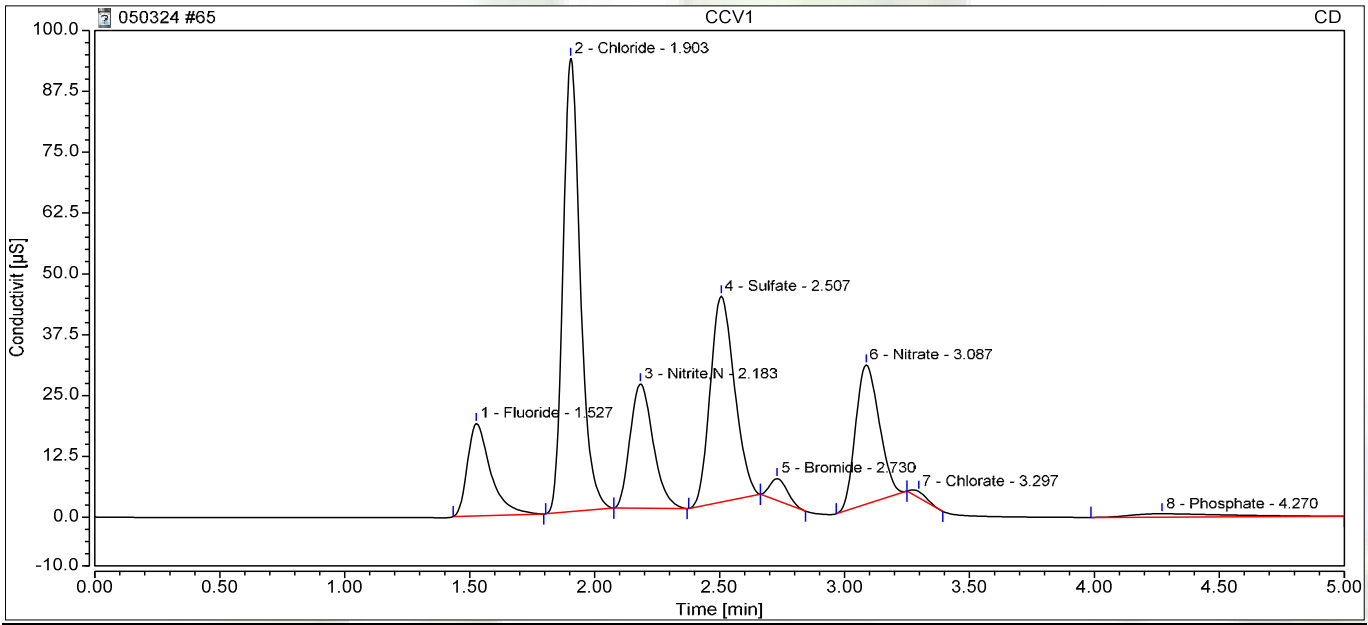
Integration Results

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	1.91	Chloride	BMB	6.627	43.6039	872.0780	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.52	Sulfate	BMB	0.166	1.9964	39.9285	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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**	**6.793**		**912.01**	

65 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:	**05/03/2024 16:30**	*Sample Weight:*	**1.0000**

Run Time:



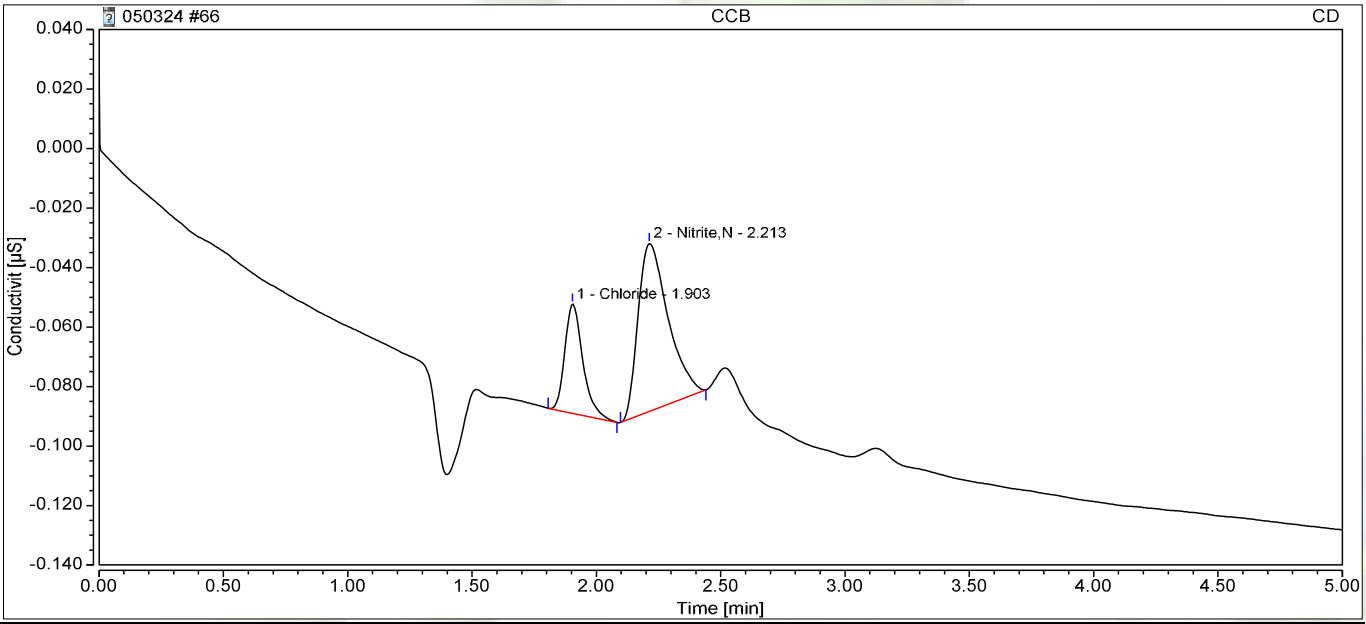
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.044	10.5666	10.5666	1.0000
2	1.90	Chloride	BMB	7.478	49.1893	49.1893	1.0000
3	2.18	Nitrite,N	BMB	2.739	9.5391	9.5391	1.0000
4	2.51	Sulfate	BMB	4.766	52.0406	52.0406	1.0000
5	2.73	Bromide	BMB	0.369	9.8823	9.8823	1.0000
6	3.09	Nitrate	BMB	3.147	9.7406	9.7406	1.0000
7	3.30	Chlorate	BMB	0.087	4.5745	4.5745	1.0000
8	4.27	Phosphate	BMB	0.320	12.2449	12.2449	1.0000
Total:			**0.000**	**20.949**		**157.78**	

66 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:	**05/03/2024 16:36**	*Sample Weight:*	**1.0000**

Run Time:



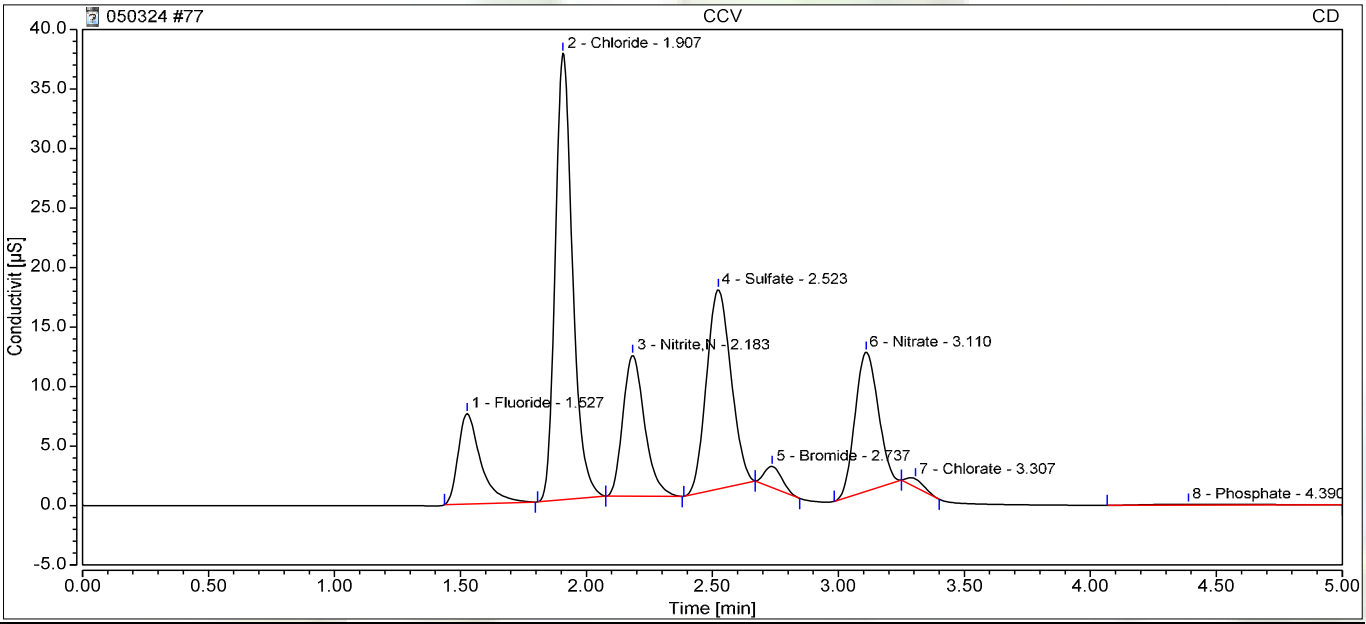
Integration Results

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	1.90	Chloride	BMB	0.003	0.0833	0.0833	1.0000
2	2.21	Nitrite,N	BMB	0.008	0.0276	0.0276	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**	**0.011**		**0.11**	

77 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:	**05/03/2024 17:58**	*Sample Weight:*	**1.0000**

Run Time:



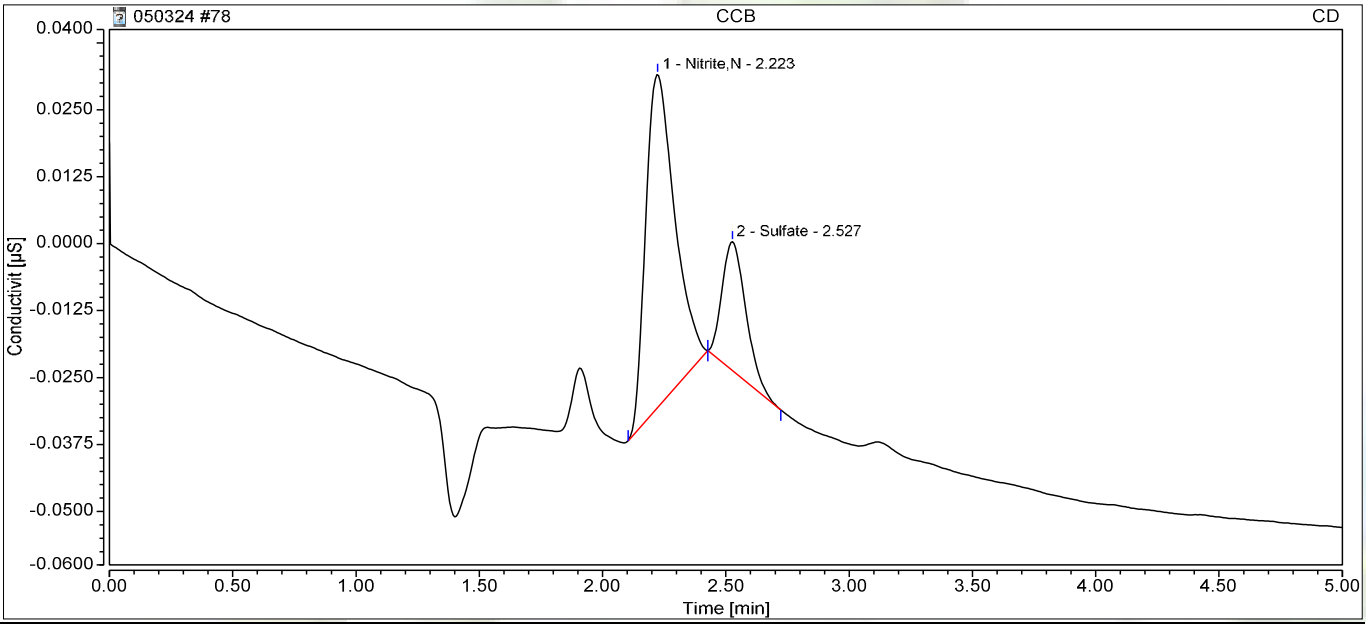
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.788	4.1215	4.1215	1.0000
2	1.91	Chloride	BMB	2.993	19.7272	19.7272	1.0000
3	2.18	Nitrite,N	BMB	1.185	3.8600	3.8600	1.0000
4	2.52	Sulfate	BMB	1.890	21.3323	21.3323	1.0000
5	2.74	Bromide	BMB	0.143	4.0545	4.0545	1.0000
6	3.11	Nitrate	BMB	1.247	3.8666	3.8666	1.0000
7	3.31	Chlorate	BMB	0.053	2.7563	2.7563	1.0000
8	4.39	Phosphate	BMB	0.038	3.0676	3.0676	1.0000
Total:			**0.000**	**8.337**		**62.79**	

78 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:	**05/03/2024 18:04**	*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	2.22	Nitrite,N	BMB	0.008	0.0295	0.0295	1.0000
2	2.53	Sulfate	BMB	0.003	0.1267	0.1267	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**	**0.011**		**0.16**	

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WorkOrder: HS24050528

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

14-Jun-2024

WorkOrder: HS24050528

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HS24050528 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24050528

HS24050528 Longhorn GW Treatment Plant Weekly Samples Final Rev01

ALS WO# HS24050528

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May 29, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24050528**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on May 09, 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: LUIS.AGUILAR
Luis.Aguilar

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050528

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050528-01	LH18/24-SP650_050824	Water		08-May-2024 13:00	09-May-2024 10:20	☐
HS24050528-02	LH18/24-SP650_050824_BIX	Water		08-May-2024 13:00	09-May-2024 10:20	☐
HS24050528-03	LH18/24-SP650_050824_AIX	Water		08-May-2024 13:00	09-May-2024 10:20	☐

Revision:1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050528

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached
- This report was revised 05/29/24 to revise the lab typo for the ammonia result in sample LH18/24-SP650_050824..

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E415.1

Batch ID: R466856

Sample ID: HS24050140-01MS

- MS is for an unrelated sample

WetChemistry by Method E350.3

Batch ID: R466693

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R466389

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050528
Sample ID: LH18/24-SP650_050824
Lab ID:HS24050528-01
Collection Date: 08-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)	**25**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	14-May-2024 09:00
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: HB
Phosphorus, Total Orthophosphate (As P)	**5.55**	a	**0.500**	**1.25**	**1.25**	**mg/L**	50	09-May-2024 12:39
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**5.12**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	15-May-2024 22:03

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050528
Sample ID: LH18/24-SP650_050824_BIX
Lab ID:HS24050528-02
Collection Date: 08-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	13-May-2024 11:31

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24050528
Sample ID: LH18/24-SP650_050824_AIX Lab ID:HS24050528-03
Collection Date: 08-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	13-May-2024 11:31

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050528

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R466389 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24050528-01	LH18/24-SP650_050824	08 May 2024 13:00			09 May 2024 12:39	50
Batch ID: R466559 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24050528-02	LH18/24-SP650_050824_BIX	08 May 2024 13:00			13 May 2024 11:31	1
HS24050528-03	LH18/24-SP650_050824_AIX	08 May 2024 13:00			13 May 2024 11:31	1
Batch ID: R466693 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24050528-01	LH18/24-SP650_050824	08 May 2024 13:00			14 May 2024 09:00	1
Batch ID: R466856 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24050528-01	LH18/24-SP650_050824	08 May 2024 13:00			15 May 2024 22:03	1

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050528

QC BATCH REPORT

Batch ID: R466389 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R466389** Units: **mg/L** Analysis Date: **09-May-2024 12:39**
Client ID: Run ID: **UV-2450_466389** SeqNo: **8002377** 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-R466389** Units: **mg/L** Analysis Date: **09-May-2024 12:39**
Client ID: Run ID: **UV-2450_466389** SeqNo: **8002376** 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)	0.258	0.0250	0.25	0	103	80 - 120				

MS Sample ID: **HS24050528-01MS** Units: **mg/L** Analysis Date: **09-May-2024 12:39**
Client ID: **LH18/24-SP650_050824** Run ID: **UV-2450_466389** SeqNo: **8002379** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	17.7	1.25	12.5	5.55	97.2	80 - 120				

MSD Sample ID: **HS24050528-01MSD** Units: **mg/L** Analysis Date: **09-May-2024 12:39**
Client ID: **LH18/24-SP650_050824** Run ID: **UV-2450_466389** SeqNo: **8002378** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	18.1	1.25	12.5	5.55	100	80 - 120	17.7	2.23	20	

The following samples were analyzed in this batch: HS24050528-01

Revision: 1

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050528

QC BATCH REPORT

Batch ID: R466693 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R466693** Units: **mg/L** Analysis Date: **14-May-2024 09:00**
Client ID: Run ID: **WetChem_HS_466693** SeqNo: **8009040** 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-R466693** Units: **mg/L** Analysis Date: **14-May-2024 09:00**
Client ID: Run ID: **WetChem_HS_466693** SeqNo: **8009039** 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)	10.03	0.20	10	0	100	80 - 120				

MS Sample ID: **HS24050406-01MS** Units: **mg/L** Analysis Date: **14-May-2024 09:00**
Client ID: Run ID: **WetChem_HS_466693** SeqNo: **8009042** 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)	10.28	0.20	10	0.222	101	80 - 120				

MSD Sample ID: **HS24050406-01MSD** Units: **mg/L** Analysis Date: **14-May-2024 09:00**
Client ID: Run ID: **WetChem_HS_466693** SeqNo: **8009041** 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)	10.31	0.20	10	0.222	101	80 - 120	10.28	0.34	20	

The following samples were analyzed in this batch: HS24050528-01

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050528

QC BATCH REPORT

Batch ID: R466856 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-05152024** Units: **mg/L** Analysis Date: **15-May-2024 18:59**
Client ID: Run ID: **TOC_05_466856** SeqNo: **8012746** 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-05152024** Units: **mg/L** Analysis Date: **15-May-2024 19:11**
Client ID: Run ID: **TOC_05_466856** SeqNo: **8012747** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.859	1.00	10	0	98.6	85 - 115				

LCSD Sample ID: **LCSD-05152024** Units: **mg/L** Analysis Date: **15-May-2024 19:23**
Client ID: Run ID: **TOC_05_466856** SeqNo: **8012748** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.823	1.00	10	0	98.2	85 - 115	9.859	0.366	20	

MS Sample ID: **HS24050140-01MS** Units: **mg/L** Analysis Date: **15-May-2024 19:48**
Client ID: Run ID: **TOC_05_466856** SeqNo: **8012750** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	12.68	1.00	10	5.77	69.1	80 - 120				S

The following samples were analyzed in this batch: HS24050528-01

Revision: 1

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ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24050528**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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: 29-May-24

Sample Receipt Checklist

Work Order ID: HS24050528 **Date/Time Received:** 09-May-2024 10:20

Client Name: Bhate Environmental **Received by:** Nelson D. Dusara

Completed By: /S/ Jacob Coronado (eSignature) 09-May-2024 11:39 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 09-May-2024 14:36 (Date/Time)

Matrices: w 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 ☐	
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):	2.8uc/2.9c	ir31
Cooler(s)/Kit(s):	blue	
Date/Time sample(s) sent to storage:	05/09/2024 1140	

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:

HS24050528

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 Guin

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_050824	Water	05/08/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_050824	Water	05/08/24 / 13:00		1			X								NONE	
LH18/24–SP650_050824_BIX	Water	05/08/24 / 13:00		1				X							NONE	
LH18/24- SP650_050824_AIX	Water	05/08/24 / 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	05/08/24	13:30	Melissa Ostaya	5/9/24	10:30						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

blue
2.2
TR31

(Word) S:\Users\Forms\Chain of Custody - BiWeekly

RIGHT SOLUTIONS | RIGHT PARTNER

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5/8/24 Time: 1330
Name: Case Beesinger
Company: BHP

Seal Broken By:
Date: 05/09/24

BMM MAY 0 9 2024

Must Deliver Next Business Day
Time and Tempature Sensitive!

ORIGIN ID:SGRA (903) 930-8193
ATT: SCOTT BEESINGER
APTIM
1203-B EAST GRAND AVE PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 01MAR24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: PERCHLORATE - 8099259 - AN

RMA:

FedEx
TRK# 0221 6862 6802 6909

THU - 09 MAY AA
PRIORITY OVERNIGHT

77099
TX-US
IAH

AB SGRA

RIGHT SOLUTIONS | RIGHT PARTNER

HS24050528 Wetchem NIT-AMM_W-E350.3 - ISE

ALS WO# HS24050528

ISE – 350.3 NH3

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB					Date: 5-14-24 0900			
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F								
Probe Calibration Date: 5-14-24		Cal Std ID: 325102604			Probe ID: NH_3 -10			
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:			
STD 1 (mg/L): 0.2		78.5	0.20		Std Level	mV	Conc., mg/L:	
STD 2 (mg/L): 1		37.3	1.00		STD 4 (mg/L): 10	-16.8	10.00	
STD 3 (mg/L): 5		1.3	5.00		STD 5 (mg/L): 50	-55.9	50.00	
LSC / MS Spike ID: 3111202404					ICAL Date & Slope: 94.8% -55.9			
ICV Cal STD ID: 325102605								
DPD Reagent ID: 3100608715								

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
ICV		50	50		10.013			
ICB					0.005			
MBLK					0.004			
LCS					10.026			
0406-01					0.222		negative	Re-check
-01 MS					10.278			
-01 MSD					10.313			
0454-01					0.128			
0135-01					0.103			
0528-01				25.150 HB	~~2.515~~	~~2.5+~~		
CCV					10.026			
CCB					0.003			
0551-01				10X	39.518			
0614-01					0.430			
0337-01					0.219			
0541-01					0.131			
CCV					10.101			
CCB					0.003			

Batch ID:	Reported By	Reviewed By:
#466693	HB	MD

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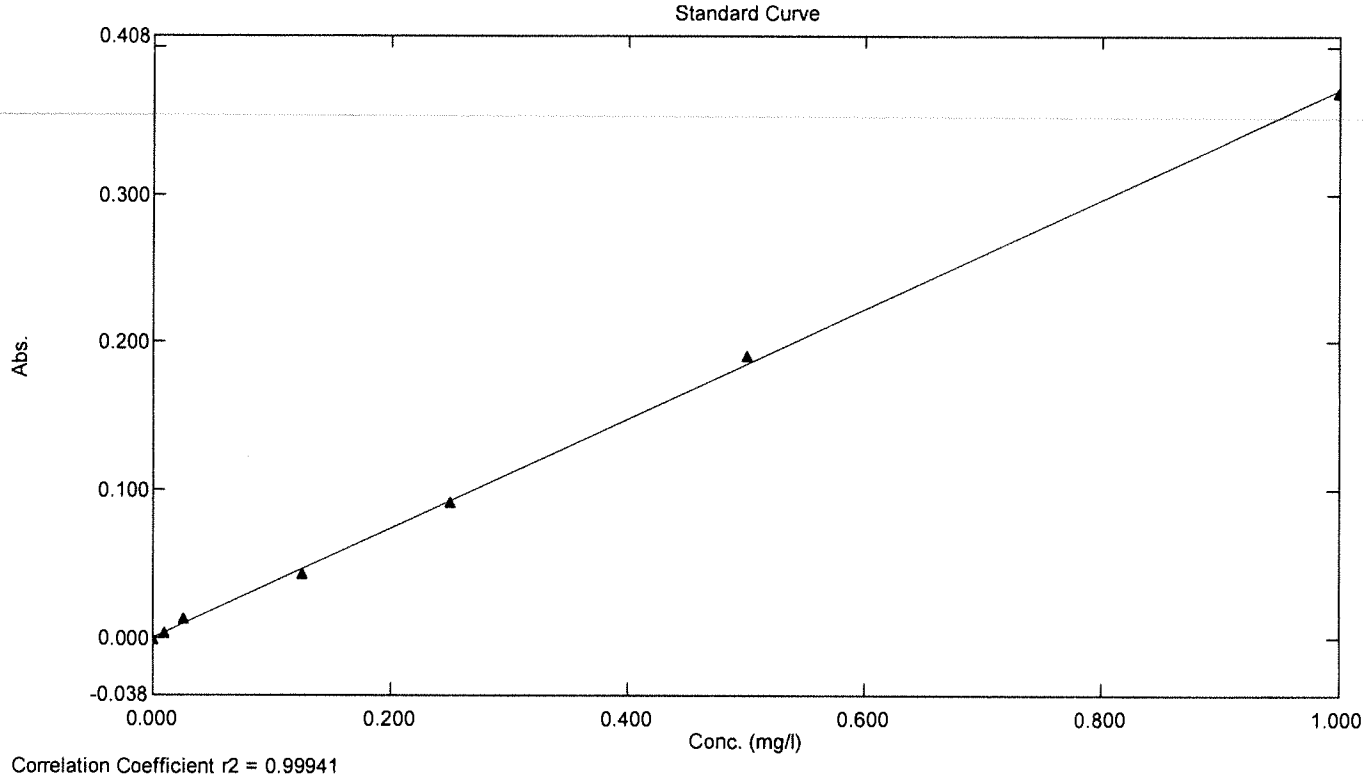
HS24050528 Wetchem P-ORTHO

ALS WO# HS24050528

Standard Table Report

06/14/2024 11:54:27 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05092024P_TW.pho



Correlation Coefficient r2 = 0.99941

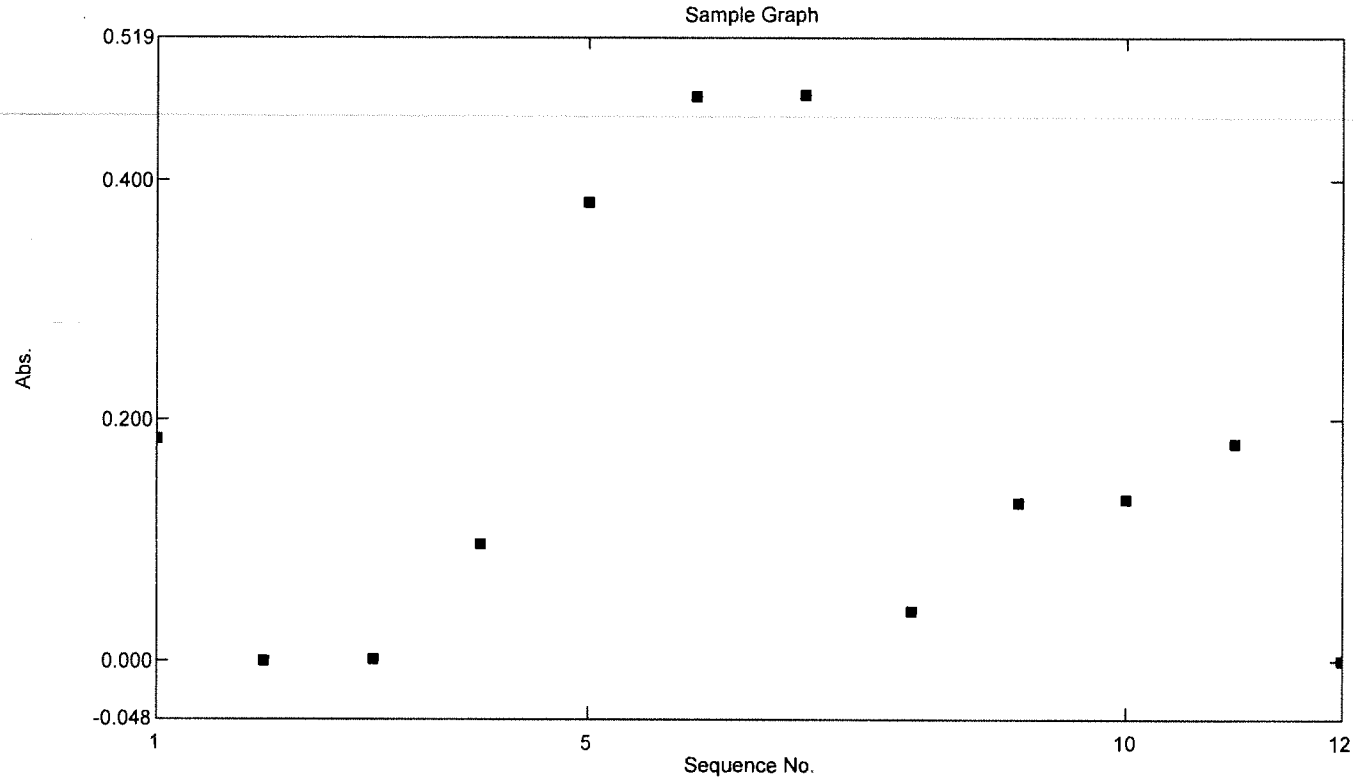
Standard Table

	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

06/14/2024 11:51:07 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05092024P_TW.pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	05/09/2024	12:39:09 PM	0.497	0.184	325103008 WC-19
2	CCB	05/09/2024	12:39:21 PM	-0.001	-0.000	325101201
3	MBLK	05/09/2024	12:39:31 PM	0.000	0.000	3100608622
4	LCS	05/09/2024	12:40:39 PM	0.258	0.096	325103007 WC-19
5	HS24050528.01	05/09/2024	12:53:04 PM	1.028	0.381	DF:10X
6	HS24050528.01MS	05/09/2024	12:56:40 PM	1.266	0.470	DF:10X
7	HS24050528.01MSD	05/09/2024	12:57:00 PM	1.273	0.472	DF:10X
8	HS24050528.01.	05/09/2024	12:59:28 PM	0.111	0.041	DF:50X
9	HS24050528.01.MS	05/09/2024	01:01:47 PM	0.354	0.131	DF:50X
10	HS24050528.01.MSD	05/09/2024	01:02:18 PM	0.362	0.134	DF:50X
11	CCV2	05/09/2024	01:03:32 PM	0.487	0.181	
12	CCB2	05/09/2024	01:03:44 PM	-0.003	-0.001	
13						

HS24050528 Wetchem TOC_W ICAL TABLE

ALS WO# HS24050528

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	

	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

HS24050528 Wetchem TOC_W ICAL

ALS WO# HS24050528

TOC-Control L Report

2024_04_25_001.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

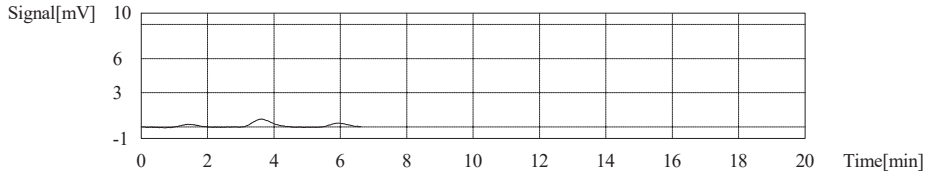
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

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

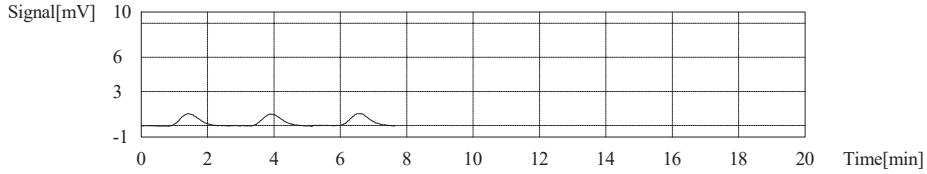
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



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

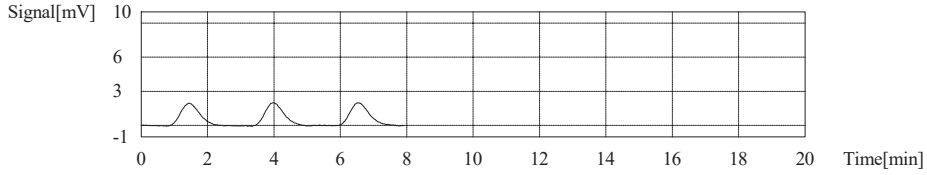
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



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



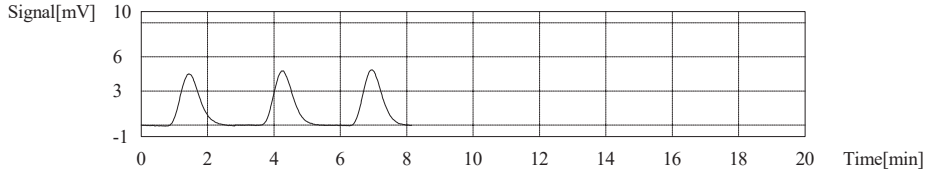
TOC-Control L Report

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

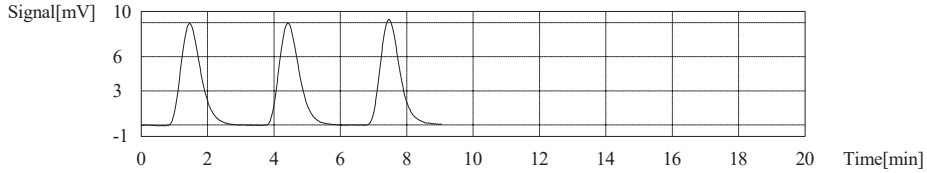
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



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

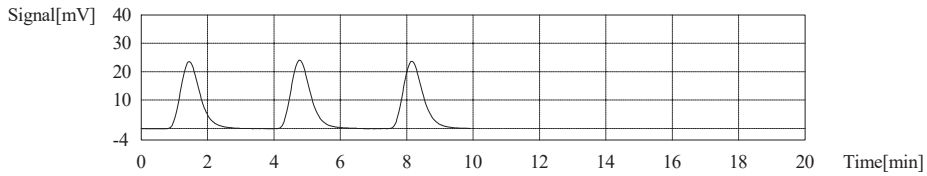
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



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

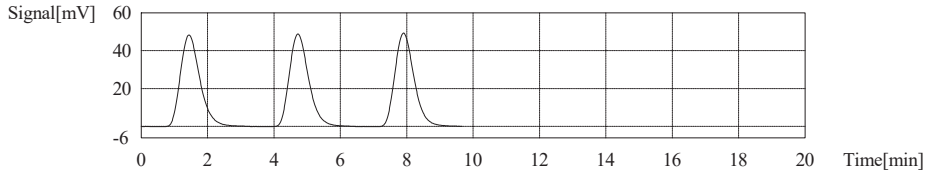
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



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

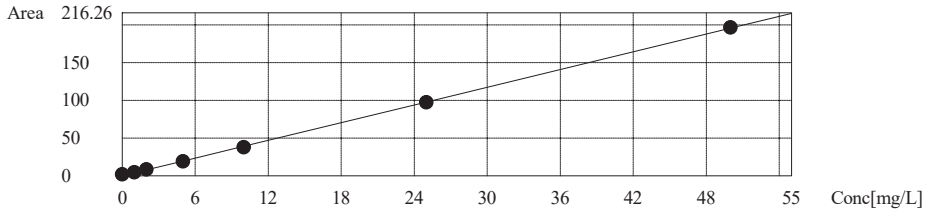
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



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	

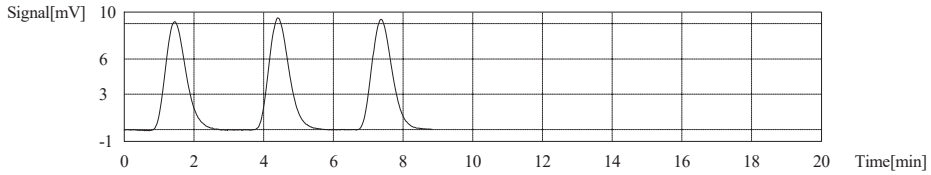
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

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

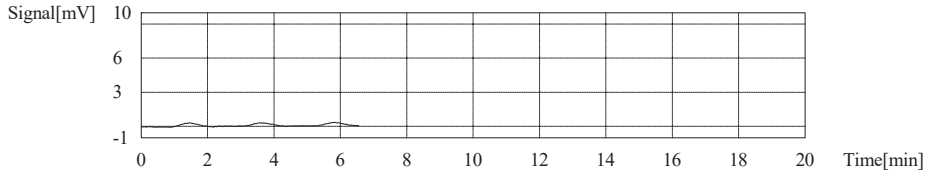
Anal.: NPOC

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



HS24050528 Wetchem TOC_W INJECT TABLE

ALS WO# HS24050528

C:\TOC-L\Data\2024_05_15_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.73mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.05985mg/	
3	Unknown	NPOC	MBLK-05152024		04.25.2024.	1.000	NPOC:0.1305mg/L	
4	Unknown	NPOC	LCS-05152024	3100607917	04.25.2024.	1.000	NPOC:9.859mg/L	
5	Unknown	NPOC	LCSD-05152024		04.25.2024.	1.000	NPOC:9.823mg/L	
6	Unknown	NPOC	HS24050140-01		04.25.2024.	1.000	NPOC:5.770mg/L	
7	Unknown	NPOC	HS24050140-01MS		04.25.2024.	1.000	NPOC:12.68mg/L	
8	Unknown	NPOC	HS24050140-03		04.25.2024.	1.000	NPOC:7.525mg/L	
9	Unknown	NPOC	HS24050140-04		04.25.2024.	1.000	NPOC:6.913mg/L	
10	Unknown	NPOC	HS24050416-01		04.25.2024.	1.000	NPOC:3.399mg/L	
11	Unknown	NPOC	HS24050416-02		04.25.2024.	1.000	NPOC:2.944mg/L	
12	Unknown	NPOC	HS24050416-03		04.25.2024.	1.000	NPOC:5.550mg/L	
13	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.48mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06697mg/	
15	Unknown	NPOC	HS24050528-01		04.25.2024.	1.000	NPOC:5.115mg/L	
16	Unknown	NPOC	HS24050533-01		04.25.2024.	1.000	NPOC:22.79mg/L	
17	Unknown	NPOC	HS24050592-01DF10		04.25.2024.	1.000	NPOC:0.7518mg/L	
18	Unknown	NPOC	HS24050592-02DF10		04.25.2024.	1.000	NPOC:1.264mg/L	
19	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.81mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.04961mg/	
21	Unknown	NPOC	MBLK-05152024		04.25.2024.	1.000	NPOC:0.1496mg/L	
22	Unknown	NPOC	LCS-05152024	3100607917	04.25.2024.	1.000	NPOC:9.811mg/L	
23	Unknown	NPOC	LCSD-05152024		04.25.2024.	1.000	NPOC:9.837mg/L	
24	Unknown	NPOC	HS24050592-03DF10		04.25.2024.	1.000	NPOC:0.8794mg/L	
25	Unknown	NPOC	HS24050592-04DF10		04.25.2024.	1.000	NPOC:1.928mg/L	
26	Unknown	NPOC	HS24050592-05DF10		04.25.2024.	1.000	NPOC:0.3044mg/L	
27	Unknown	NPOC	HS24050592-06DF10		04.25.2024.	1.000	NPOC:8.500mg/L	
28	Unknown	NPOC	HS24050142-01		04.25.2024.	1.000	NPOC:7.556mg/L	
29	Unknown	NPOC	HS24050142-01MS		04.25.2024.	1.000	NPOC:16.49mg/L	
30	Unknown	NPOC	HS24050167-01		04.25.2024.	1.000	NPOC:33.19mg/L	
31	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.72mg/L	
32	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1190mg/L	
33	Unknown	NPOC	HS24050546-09DF10		04.25.2024.	1.000	NPOC:1.370mg/L	
34	Unknown	NPOC	HS24050546-11DF10		04.25.2024.	1.000	NPOC:1.180mg/L	
35	Unknown	NPOC	HS24050546-13DF10		04.25.2024.	1.000	NPOC:2.108mg/L	
36	Unknown	NPOC	HS24050629-01DF10		04.25.2024.	1.000	NPOC:1.364mg/L	
37	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.82mg/L	
38	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.08452mg/	
39	Unknown	NPOC	MBLK-05152024		04.25.2024.	1.000	NPOC:0.000mg/L	
40	Unknown	NPOC	LCS-05152024	3100607917	04.25.2024.	1.000	NPOC:9.699mg/L	
41	Unknown	NPOC	LCSD-05152024		04.25.2024.	1.000	NPOC:9.737mg/L	
42	Unknown	NPOC	HS24050629-02DF10		04.25.2024.	1.000	NPOC:6.367mg/L	
43	Unknown	NPOC	HS24050629-03DF10		04.25.2024.	1.000	NPOC:10.68mg/L	
44	Unknown	NPOC	HS24050629-04DF10		04.25.2024.	1.000	NPOC:24.36mg/L	
45	Unknown	NPOC	HS24050629-05DF10		04.25.2024.	1.000	NPOC:9.518mg/L	
46	Unknown	NPOC	HS24050629-06DF10		04.25.2024.	1.000	NPOC:3.874mg/L	
47	Unknown	NPOC	HS24050629-07DF10		04.25.2024.	1.000	NPOC:25.44mg/L	
48	Unknown	NPOC	HS24050629-08DF20		04.25.2024.	1.000	NPOC:25.64mg/L	
49	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.69mg/L	
50	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1168mg/L	
51	Unknown	NPOC	HS24050629-09DF20		04.25.2024.	1.000	NPOC:21.73mg/L	
52	Unknown	NPOC	HS24050629-10DF20		04.25.2024.	1.000	NPOC:13.61mg/L	
53	Unknown	NPOC	HS24050244-01		04.25.2024.	1.000	NPOC:20.69mg/L	

	Status	Date / Time	Vial
1	Completed	5/15/2024 6:39:09 PM	1
2	Completed	5/15/2024 6:48:18 PM	2
3	Completed	5/15/2024 6:59:06 PM	3
4	Completed	5/15/2024 7:11:33 PM	4
5	Completed	5/15/2024 7:23:47 PM	5
6	Completed	5/15/2024 7:36:09 PM	6
7	Completed	5/15/2024 7:48:36 PM	7
8	Completed	5/15/2024 8:01:08 PM	8
9	Completed	5/15/2024 8:13:03 PM	9
10	Completed	5/15/2024 8:24:59 PM	10
11	Completed	5/15/2024 8:36:53 PM	11
12	Completed	5/15/2024 8:49:42 PM	12
13	Completed	5/15/2024 9:32:04 PM	1
14	Completed	5/15/2024 9:41:02 PM	2
15	Completed	5/15/2024 10:03:06 PM	13
16	Completed	5/15/2024 10:16:09 PM	14
17	Completed	5/15/2024 10:26:51 PM	15
18	Completed	5/15/2024 10:37:47 PM	16
19	Completed	5/15/2024 11:19:31 PM	1
20	Completed	5/15/2024 11:28:35 PM	2
21	Completed	5/15/2024 11:39:15 PM	3
22	Completed	5/15/2024 11:51:45 PM	4
23	Completed	5/16/2024 12:03:48 AM	5
24	Completed	5/16/2024 12:25:03 AM	17
25	Completed	5/16/2024 12:36:32 AM	18
26	Completed	5/16/2024 12:46:39 AM	19
27	Completed	5/16/2024 12:58:40 AM	20
28	Completed	5/16/2024 1:10:45 AM	21
29	Completed	5/16/2024 1:23:29 AM	22
30	Completed	5/16/2024 1:36:26 AM	23
31	Completed	5/16/2024 2:19:27 AM	24
32	Completed	5/16/2024 2:29:09 AM	25
33	Completed	5/16/2024 2:40:41 AM	26
34	Completed	5/16/2024 3:02:00 AM	27
35	Completed	5/16/2024 3:13:16 AM	28
36	Completed	5/16/2024 3:24:36 AM	29
37	Completed	5/16/2024 4:07:32 AM	24
38	Completed	5/16/2024 4:16:39 AM	25
39	Completed	5/16/2024 4:35:35 AM	3
40	Completed	5/16/2024 4:49:03 AM	4
41	Completed	5/16/2024 5:01:18 AM	5
42	Completed	5/16/2024 5:23:30 AM	30
43	Completed	5/16/2024 5:35:47 AM	31
44	Completed	5/16/2024 5:48:41 AM	32
45	Completed	5/16/2024 6:00:48 AM	33
46	Completed	5/16/2024 6:12:30 AM	34
47	Completed	5/16/2024 6:25:00 AM	35
48	Completed	5/16/2024 6:37:42 AM	36
49	Completed	5/16/2024 7:20:53 AM	24
50	Completed	5/16/2024 7:30:19 AM	25
51	Completed	5/16/2024 7:53:15 AM	37
52	Completed	5/16/2024 8:05:45 AM	38
53	Completed	5/16/2024 8:18:15 AM	39

C:\TOC-L\Data\2024_05_15_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
54	Unknown	NPOC	HS24050244-01MS		04.25.2024.	1.000	NPOC:29.30mg/L	
55	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.74mg/L	
56	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.07593mg/	
57	Unknown	NPOC	MBLK-05152024		04.25.2024.	1.000	NPOC:0.01861mg/	
58	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.64mg/L	
59	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.05095mg/	

	Status	Date / Time	Vial
54	Completed	5/16/2024 8:30:57 AM	40
55	Completed	5/16/2024 9:14:10 AM	41
56	Completed	5/16/2024 9:23:26 AM	42
57	Completed	5/16/2024 9:56:54 AM	3
58	Completed	5/16/2024 10:19:49 AM	41
59	Completed	5/16/2024 10:28:59 AM	42

HS24050528 Wetchem TOC_W INJECT

ALS WO# HS24050528

TOC-Control L Report

2024_05_15_002.tlx

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

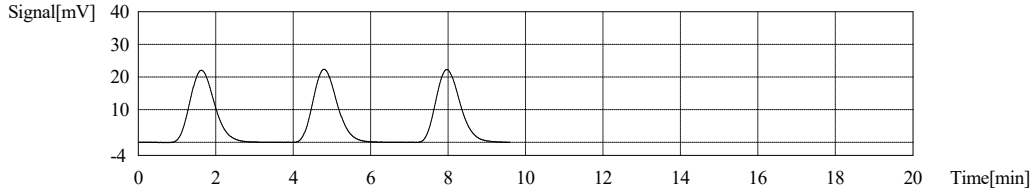
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.10	24.79mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:31:35 PM
2	96.69	24.68mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:35:21 PM
3	96.79	24.71mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:39:09 PM

Mean Area 96.86
Mean Conc. 24.73mg/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:0.05985mg/L

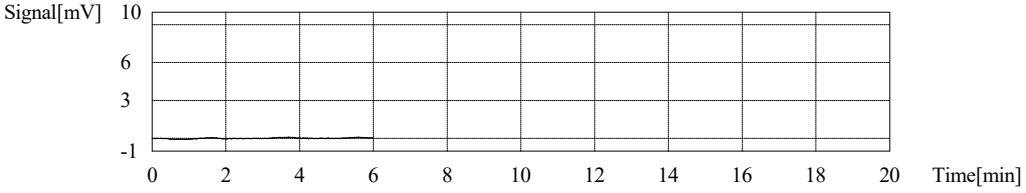
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3049	0.07783mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:43:12 PM
2	0.3033	0.07742mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:45:49 PM
3	0.09520	0.02430mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:48:18 PM

TOC-Control L Report

Mean Area 0.2345
Mean Conc. 0.05985mg/L



Sample

Sample Name: MBLK-05152024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

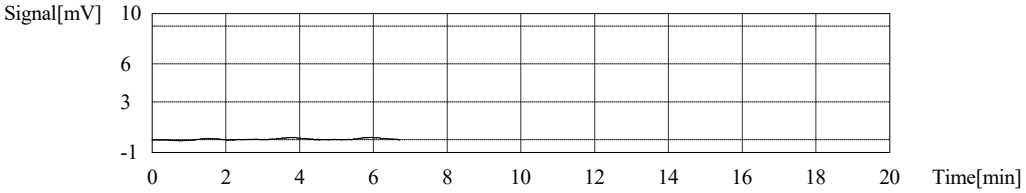
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1305mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4085	0.1043mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:53:25 PM
2	0.4148	0.1059mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:56:11 PM
3	0.7104	0.1813mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 6:59:06 PM

Mean Area 0.5112
Mean Conc. 0.1305mg/L



Sample

Sample Name: LCS-05152024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.859mg/L

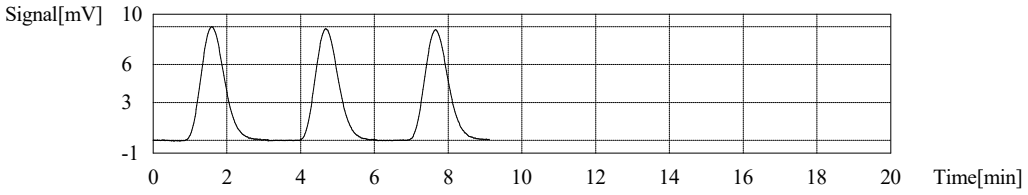
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.46	10.07mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:04:23 PM
2	38.15	9.739mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:07:55 PM
3	38.26	9.767mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:11:33 PM

TOC-Control L Report

Mean Area 38.62
Mean Conc. 9.859mg/L



Sample

Sample Name: LCSD-05152024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

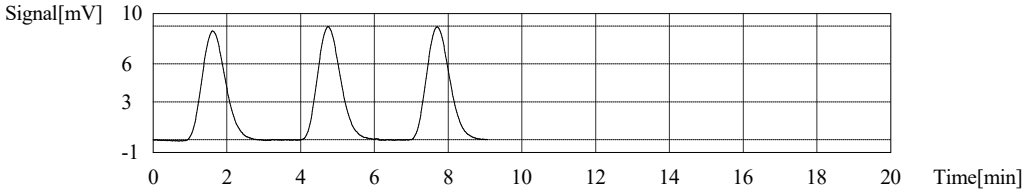
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.823mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:16:44 PM
2	38.57	9.846mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:20:15 PM
3	38.64	9.864mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:23:47 PM

Mean Area 38.48
Mean Conc. 9.823mg/L



Sample

Sample Name: HS24050140-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

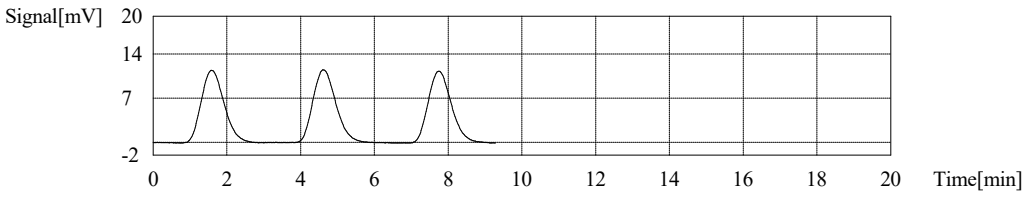
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.68mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.75	12.70mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:41:11 PM
2	49.75	12.70mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:44:52 PM
3	49.54	12.65mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 7:48:36 PM

Mean Area 49.68
Mean Conc. 12.68mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

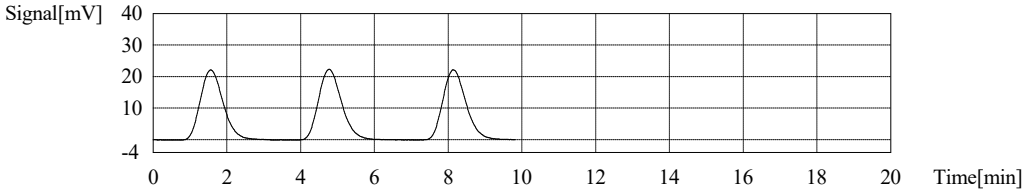
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.48mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.78	24.19mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:24:16 PM
2	96.97	24.75mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:28:14 PM
3	95.99	24.50mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:32:04 PM

Mean Area 95.91
Mean Conc. 24.48mg/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:0.06697mg/L

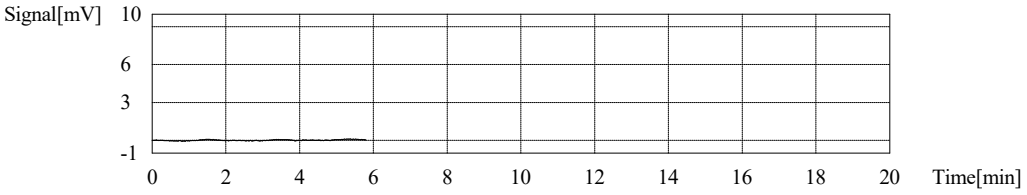
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3223	0.08227mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:36:01 PM
2	0.09350	0.02387mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:38:30 PM
3	0.3713	0.09478mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:41:02 PM

TOC-Control L Report

Mean Area 0.2624
Mean Conc. 0.06697mg/L



Sample

Sample Name: HS24050528-01
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

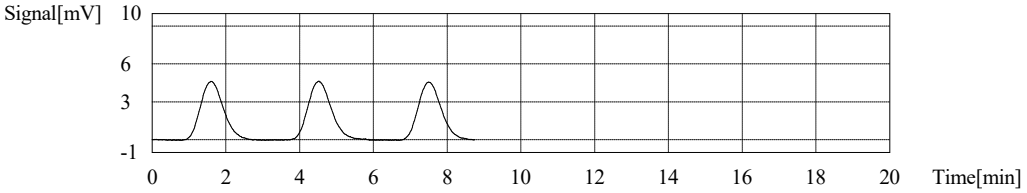
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.115mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.04	5.116mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:56:05 PM
2	20.27	5.174mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 9:59:39 PM
3	19.80	5.054mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 10:03:06 PM

Mean Area 20.04
Mean Conc. 5.115mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.81mg/L

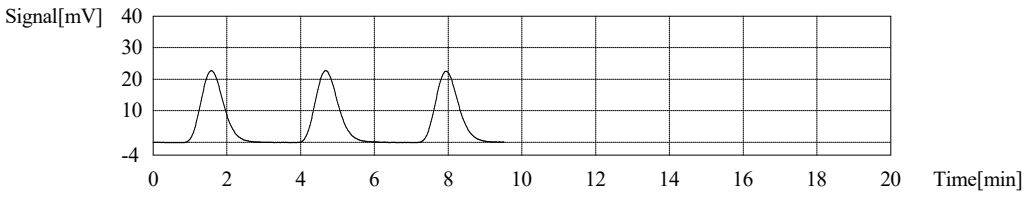
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.85	24.72mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 11:11:57 PM
2	97.43	24.87mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 11:15:47 PM
3	97.30	24.84mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 11:19:31 PM

TOC-Control L Report

Mean Area 97.19
Mean Conc. 24.81mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

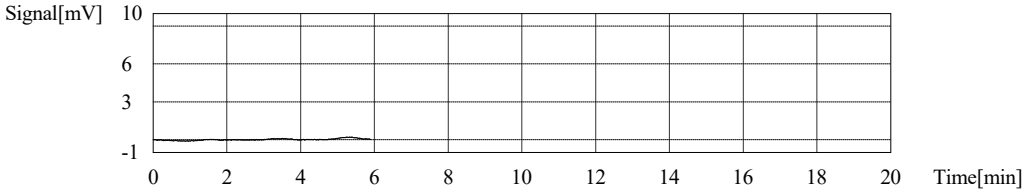
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04961mg/L

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	5/15/2024 11:23:25 PM
2	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 11:25:54 PM
3	0.5830	0.1488mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/15/2024 11:28:35 PM

Mean Area 0.1943
Mean Conc. 0.04961mg/L



HS24050528 E2400475 Perchlorate Level IV Report

ALS WO# HS24050528

May 13, 2024 Service Request No:E2400475

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050528

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 09, 2024
For your reference, these analyses have been assigned our service request number **E2400475.**

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400475
Project:	HS24050528	**Date Received:**	05/09/24
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 05/09/24.

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:

EQ2400222: 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 batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

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:**E2400475
Project: HS24050528

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400475-001	LH18/24-SP650_050824_AIX	5/8/2024	1300
E2400475-002	LH18/24-SP650_050824_BIX	5/8/2024	1300

Service Request Summary

Folder #: **E2400475**
Client Name: ALS Environmental - US
Project Name: HS24050528
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: 05/09/24
Internal Due Date: 5/10/2024
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-LTS 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400475-001	LH18/24-SP650_050824_AIX	Water	05/08/24 1300	**IV**
E2400475-002	LH18/24-SP650_050824_BIX	Water	05/08/24 1300	**IV**

Service Request Summary

Folder #: **E2400475**
Client Name: ALS Environmental - US
Project Name: HS24050528
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: 05/09/24
Internal Due Date: 5/10/2024
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-LTS 1B
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
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 Hampshire Environmental Laboratory Accreditation Program	04016-2024	4/30/2025
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	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
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

E2400475 5
ALS Group USA, Corp
HS24050528

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25597**

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:	HS24050528
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050528-02**	**LH18/24-SP650_050824_BIX**	**Water**	**08 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			10 May 2024
2.	**HS24050528-03**	**LH18/24-SP650_050824_AIX**	**Water**	**08 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			10 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
24 HR TAT Perchlorates

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/9/24 1020

Cooler ID(s): _____ Temperature(s): _____

E2400475 5
ALS Group USA, Corp.
HS24050528

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Sample Receipt Checklist

Work Order ID: HS24050528 **Date/Time received:** 09 May 2024 10:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Nelson D. Dusara

Completed/By: 09 May 2024 11:39 Jacob Coronado **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 05/09/2024 1140

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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www.alsglobal.com

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#: 438193 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/NVOSS **Prep Method:** Method **Prep Date/Time:** 5/9/24 09:23

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400473-001	Per.LOD Water@ 0.05µg/L	.01	6850/ClO4 DOD			Water	10mL	
2	E2400473-002	Per.LOQ Water@ 0.1µg/L	.01	6850/ClO4 DOD			Water	10mL	
3	E2400475-001	LH18/24-SP650_050824_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400475-002	LH18/24-SP650_050824_BIX	.01	6850/ClO4 DOD			Water	10mL	
5	EQ2400222-01	LCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400222-02	DLCS		6850/ClO4 DOD			Liquid	10mL	
7	EQ2400222-03	ICS		6850/ClO4 DOD			Liquid	10mL	
8	EQ2400222-04	MB		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400222-01 10.00µL EQ2400222-02 10.00µL EQ2400222-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400473-001 100.00µL E2400473-002 100.00µL E2400475-001 100.00µL E2400475-002 100.00µL EQ2400222-01 100.00µL EQ2400222-02 100.00µL
EQ2400222-03 100.00µL EQ2400222-04 100.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 5/9/24 09:23
Finished: 5/9/24 10:00
By: NVOSS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400475
Project:	HS24050528	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP650_050824_AIX	**Units:**	µg/L
Lab Code:	E2400475-001	**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	**0.343**		0.100	0.0500	0.0250	1	5/ 9/24	5/9/24 13:07	438193	840324	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400475
Project:	HS24050528	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP650_050824_BIX	**Units:**	µg/L
Lab Code:	E2400475-002	**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	**1.91**		0.100	0.0500	0.0250	1	5/ 9/24	5/9/24 13:12	438193	840324	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400475
Project:	HS24050528	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400222-04	**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/ 9/24	5/9/24 11:54	438193	840324	

Accuracy & Precision

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050528
Sample Matrix: Water

Service Request: E2400475
Date Analyzed: 5/ 9/24

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: 438193

	Lab Control Sample EQ2400222-01			Duplicate Lab Control Sample EQ2400222-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.107	0.100	107	0.102	0.100	102	84 - 119	4	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:**	E2400475
Project:	HS24050528	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400222-01	**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	**0.107**		0.100	0.0500	0.0250	1	5/ 9/24	5/9/24 12:00	438193	840324	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400475
Project:	HS24050528	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400222-02	**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	**0.102**		0.100	0.0500	0.0250	1	5/ 9/24	5/9/24 12:05	438193	840324	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

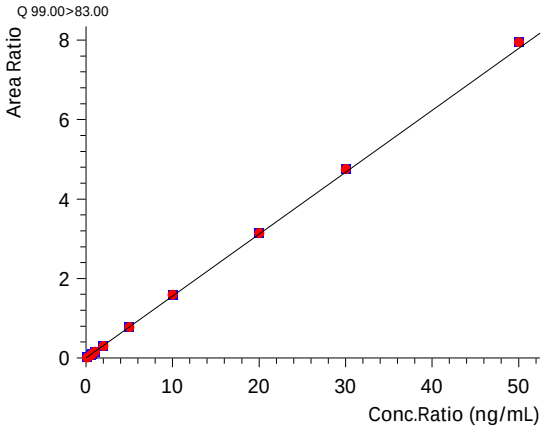
Insight Calibration Report

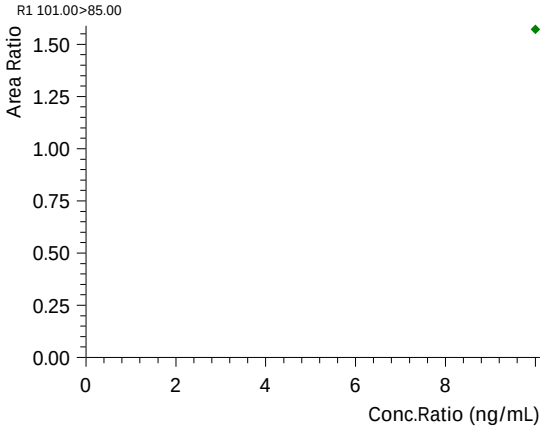
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

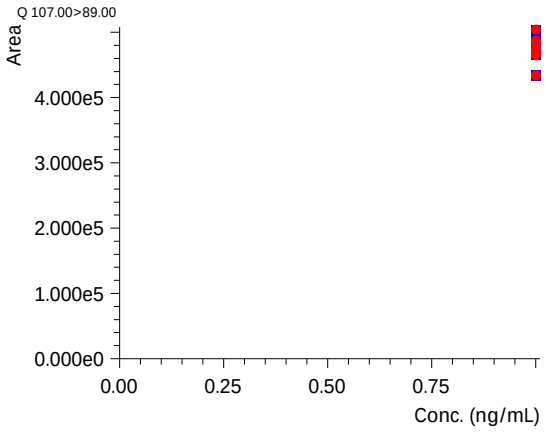
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

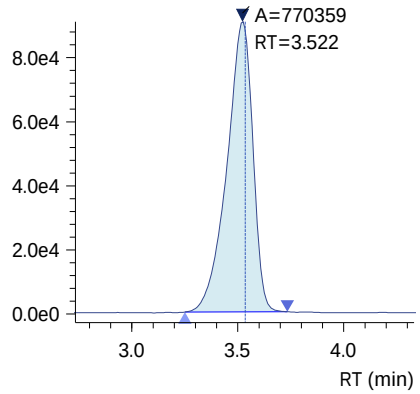
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

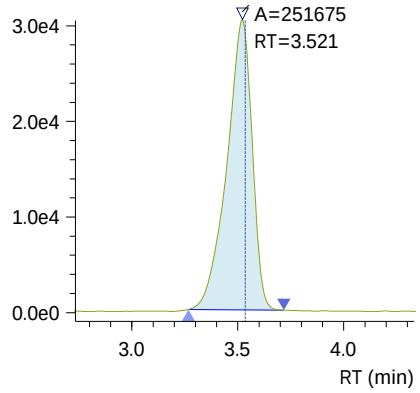
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



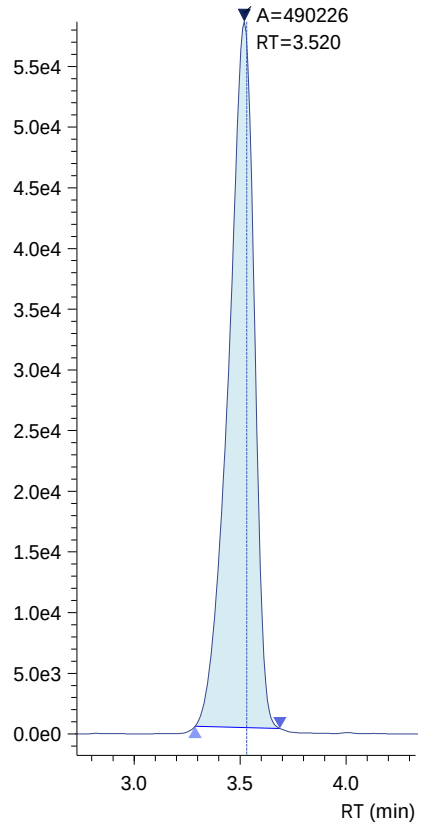
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

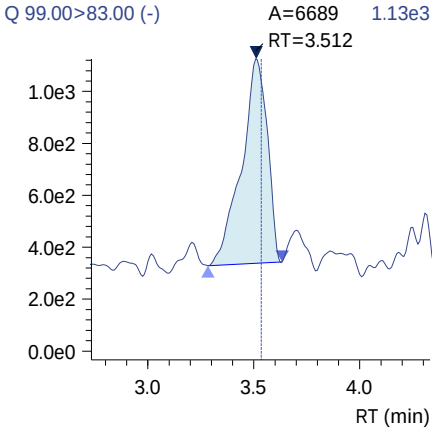
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

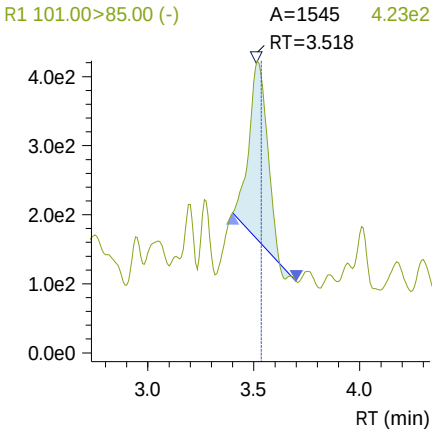
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

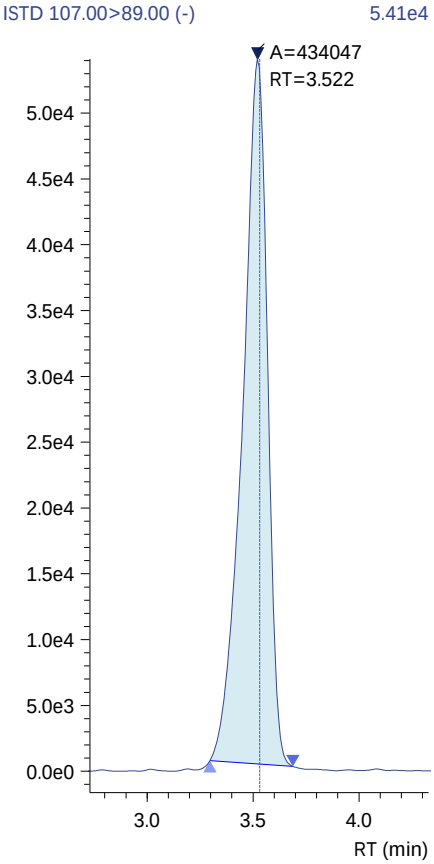
Conc 0.0989
R#1 23.10 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

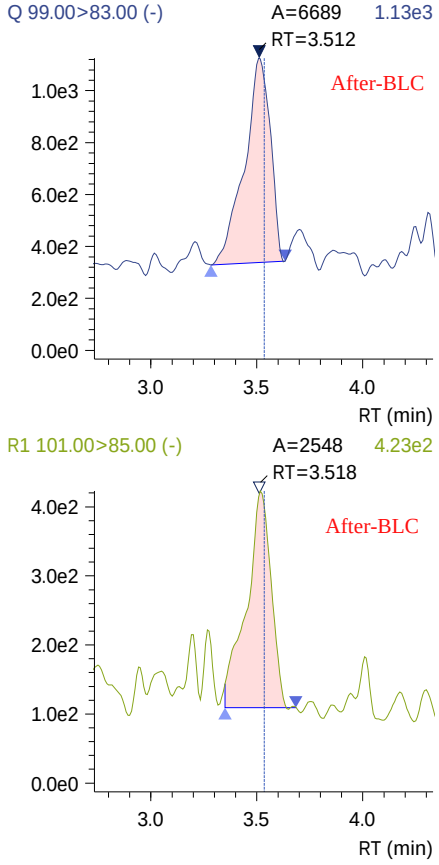
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.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	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

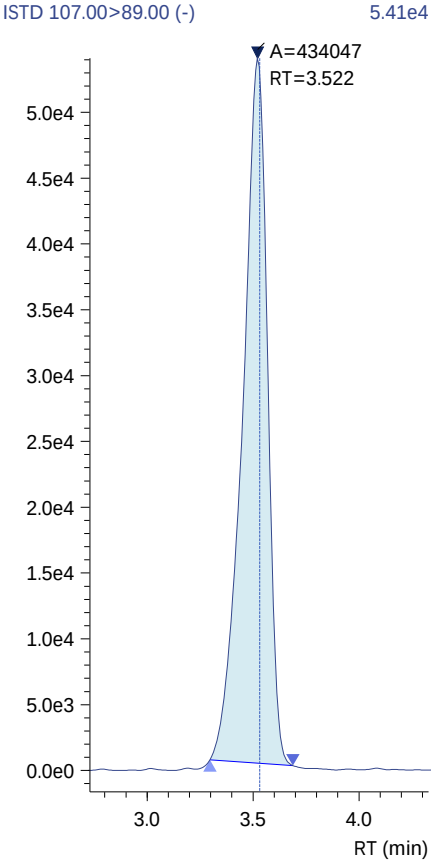
Perchlorate

Conc 0.0989
R#1 38.09 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 2

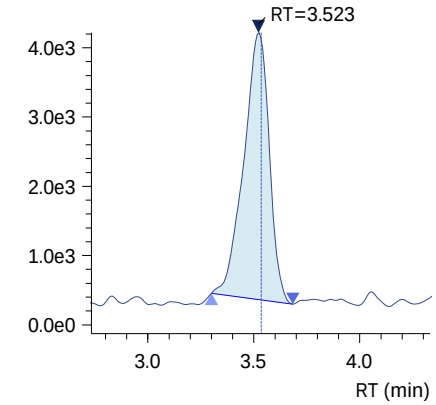
Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

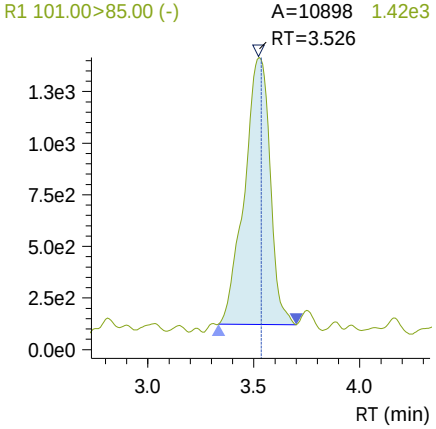
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)

Q 99.00>83.00 (-) A=32102 4.22e3



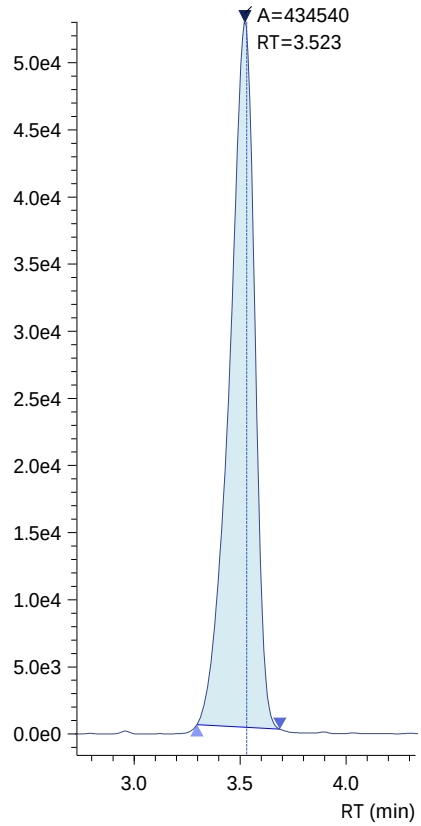
R1 101.00>85.00 (-) A=10898 1.42e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.31e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

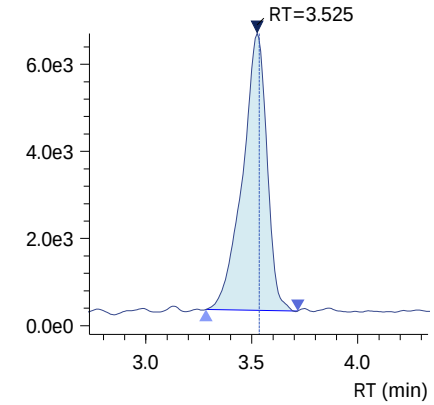
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

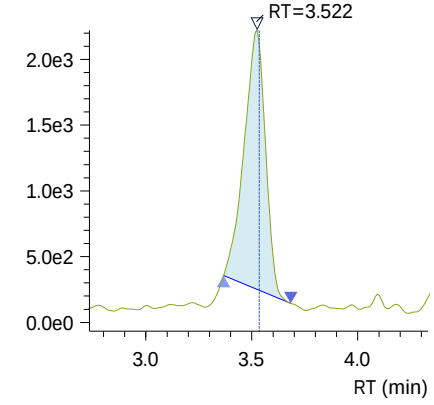
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



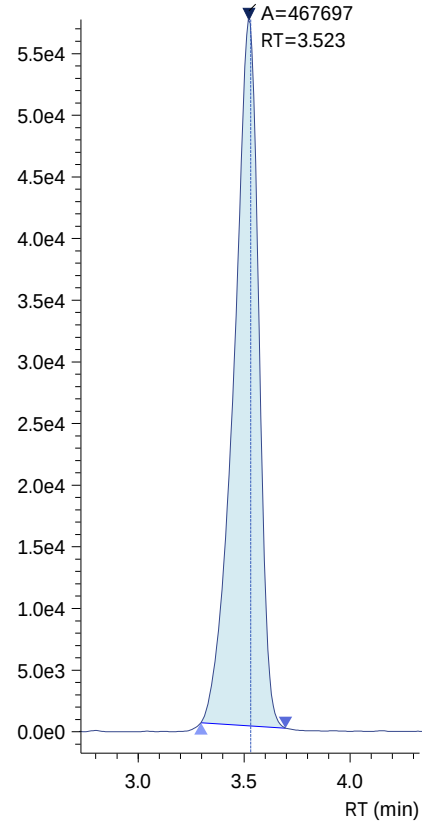
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

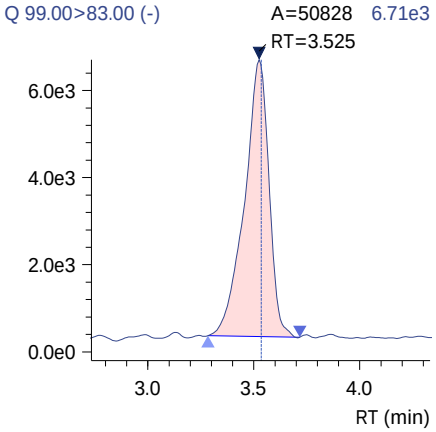
Perchlorate ICAL 3

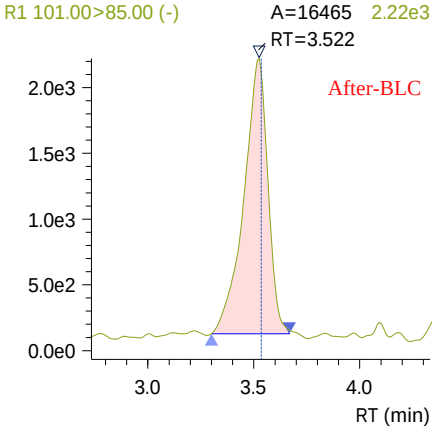
Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

Perchlorate

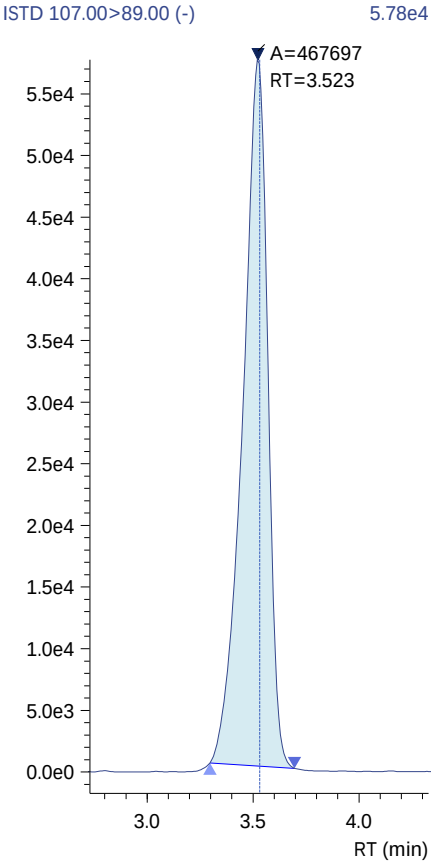
Conc 0.6975
R#1 32.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

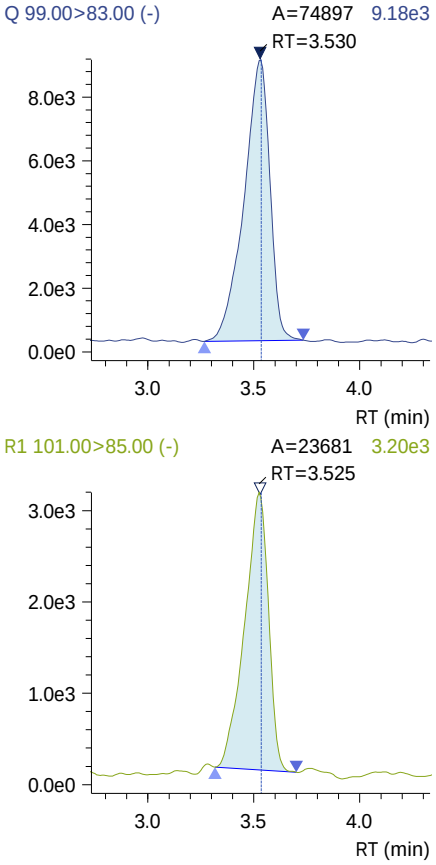
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.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	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

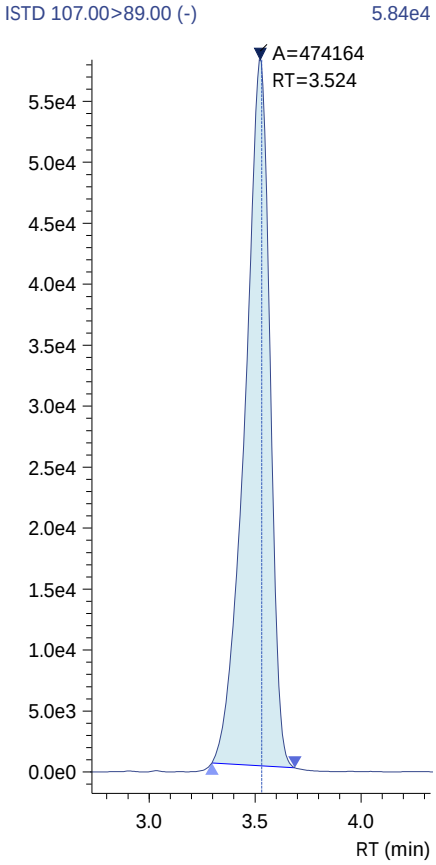
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

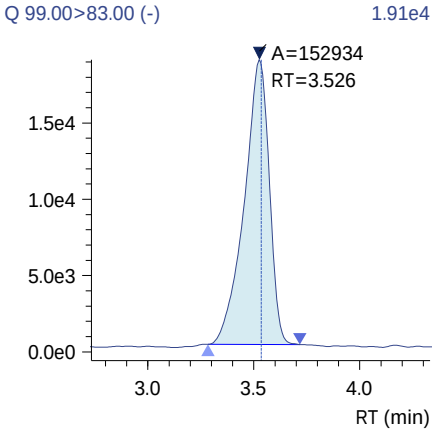
Perchlorate ICAL 5

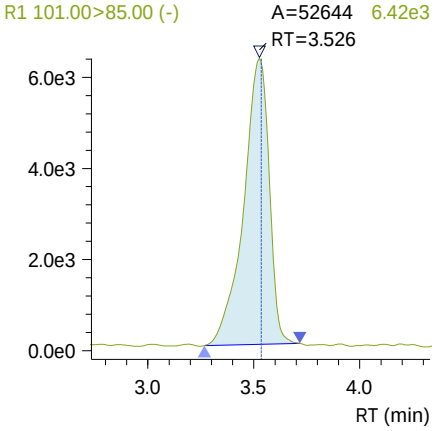
Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

Perchlorate

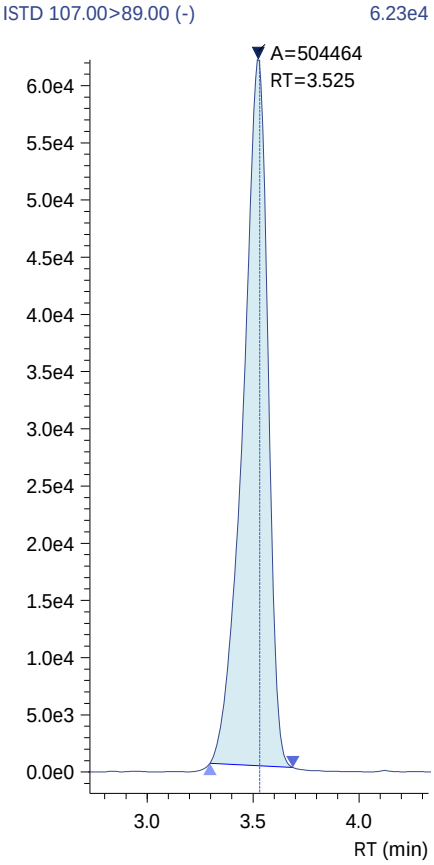
Conc 1.9458
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

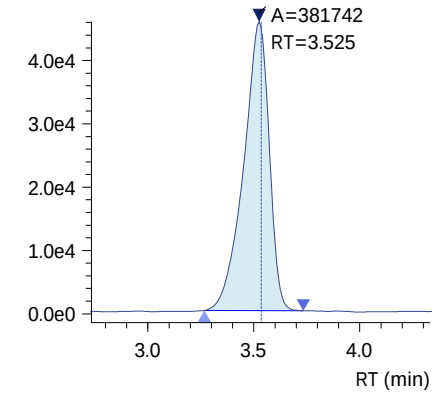
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

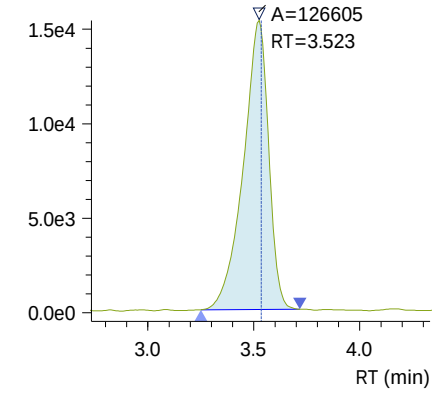
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



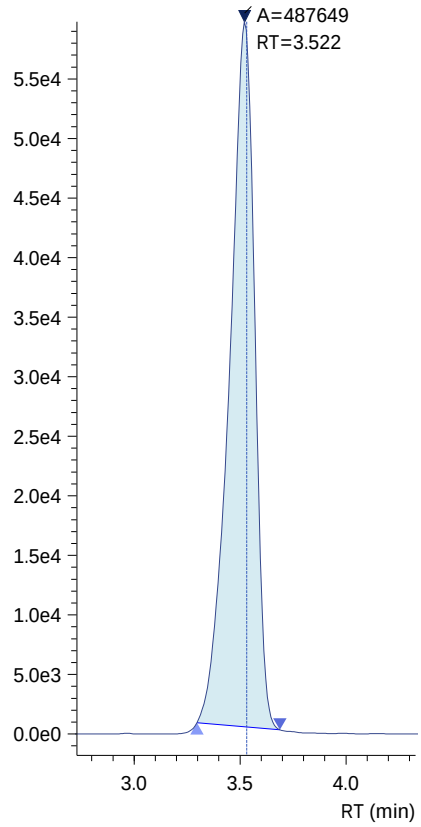
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

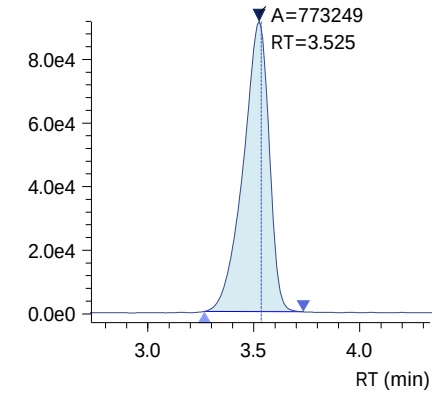
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

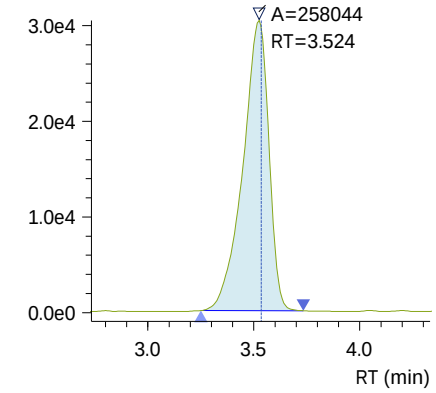
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



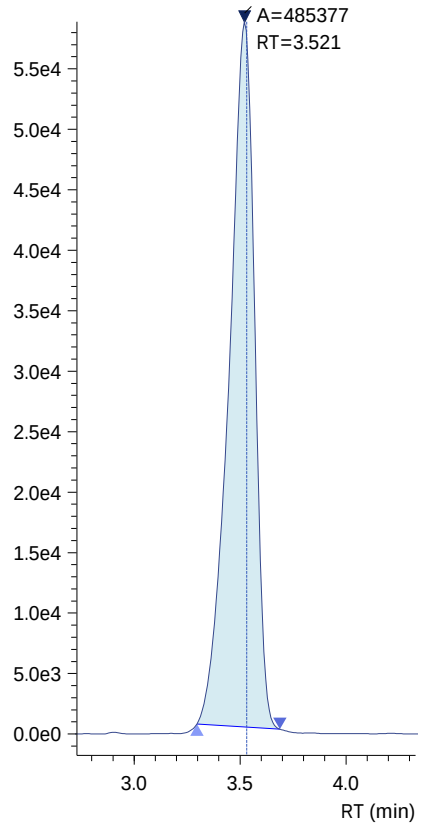
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

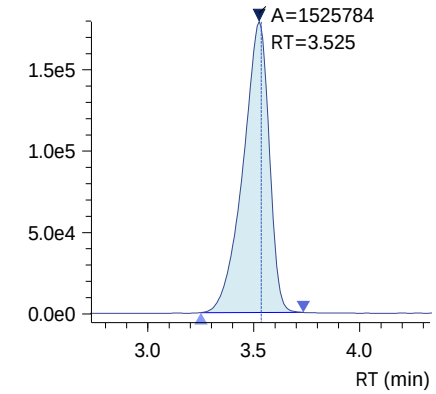
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

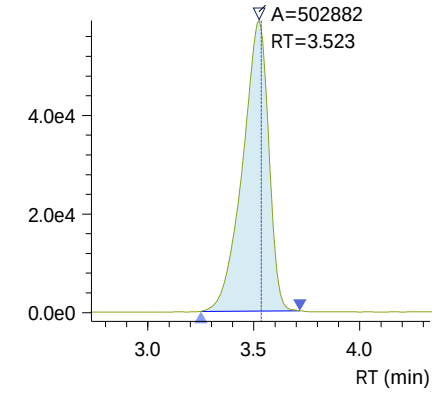
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



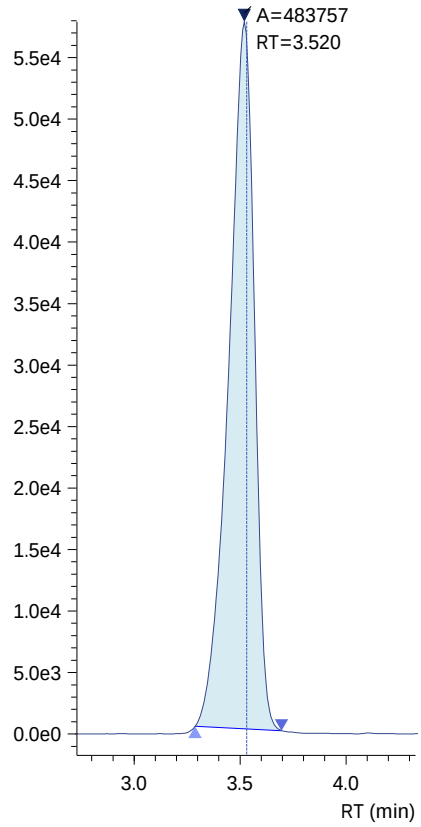
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

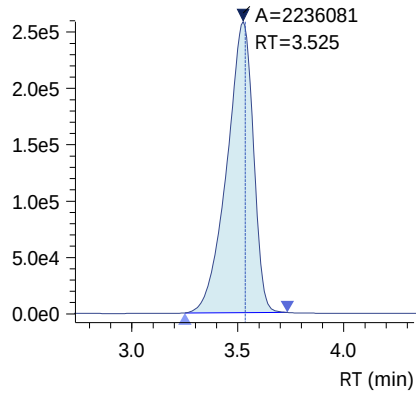
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360 81	469429	30.5 732	ng/mL	101.00 >85.00	32.91	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

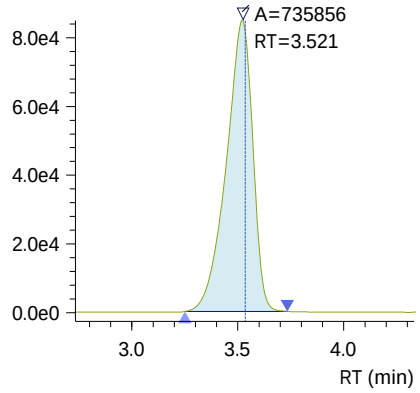
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



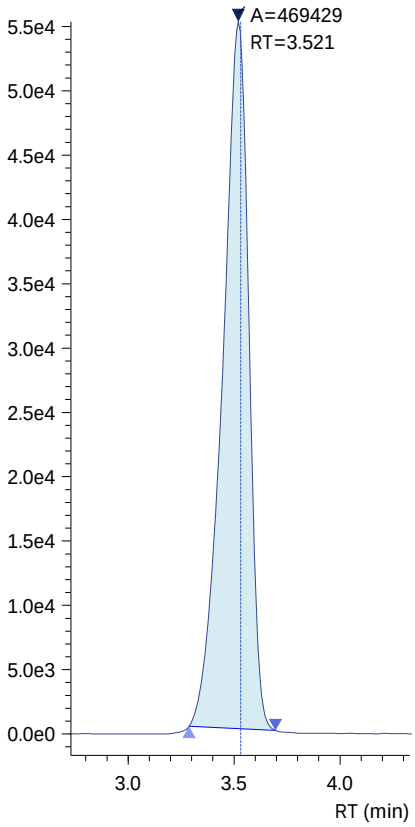
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

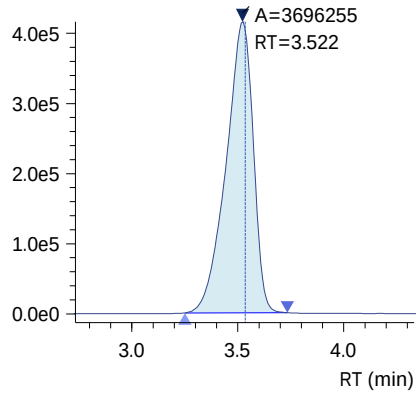
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

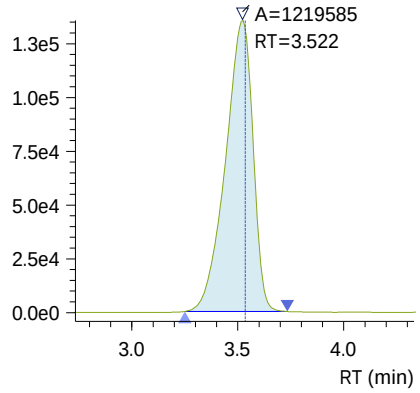
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



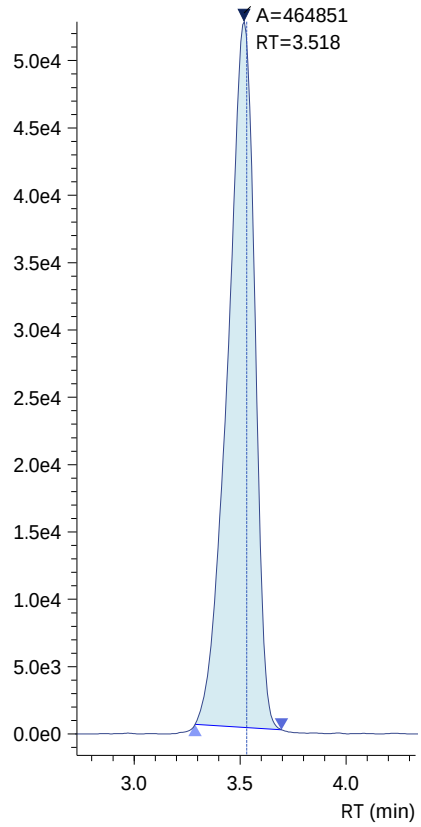
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

840324

Injection Log

LCMS01 -Shimadzu 8050

1st Review: NMV
2nd Review: SB

ICAL Date: 4/24/2024
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	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240509-001	IB	Perchlorate6850c.lcm	1x		5/9/2024 11:06
12	20240509-002	IB	Perchlorate6850c.lcm	1x		5/9/2024 11:12
13	20240509-003	LODV	Perchlorate6850c.lcm	1x		5/9/2024 11:17
14	20240509-004	ICS	Perchlorate6850c.lcm	1x		5/9/2024 11:23
15	20240509-005	CCV	Perchlorate6850c.lcm	1x		5/9/2024 11:29
16	20240509-006	IB	Perchlorate6850c.lcm	1x		5/9/2024 11:49
17	20240509-007	EQ2400222-04MB	Perchlorate6850c.lcm	1x		5/9/2024 11:54
18	20240509-008	EQ2400222-01LCS	Perchlorate6850c.lcm	1x		5/9/2024 12:00
19	20240509-009	EQ2400222-02DLCS	Perchlorate6850c.lcm	1x		5/9/2024 12:05
20	20240509-010	EQ2400222-03ICS	Perchlorate6850c.lcm	1x		5/9/2024 12:11
21	20240509-011	E2400473-001	Perchlorate6850c.lcm	1x		5/9/2024 12:17
22	20240509-012	E2400473-002	Perchlorate6850c.lcm	1x		5/9/2024 12:22
23	20240509-015	CCV	Perchlorate6850c.lcm	1x		5/9/2024 12:28
24	20240509-016	IB	Perchlorate6850c.lcm	1x		5/9/2024 12:50
25	20240509-017	E2400475-001x10	Perchlorate6850c.lcm	1x	DO NOT USE	5/9/2024 12:55
26	20240509-018	E2400475-002x10	Perchlorate6850c.lcm	1x	DO NOT USE	5/9/2024 13:01
27	20240509-019	E2400475-001	Perchlorate6850c.lcm	1x		5/9/2024 13:07
28	20240509-020	E2400475-002	Perchlorate6850c.lcm	1x		5/9/2024 13:12
29	20240509-021	CCV	Perchlorate6850c.lcm	1x		5/9/2024 13:18
30	20240509-022	IB	Perchlorate6850c.lcm	1x		5/9/2024 13:23

840324

Injection Log

LCMS01 -Shimadzu 8050

1st Review: NMV
2nd Review: SB

ICAL Date: 4/24/2024
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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400475
Project:	HS24050528	**Date Analyzed:**	5/9/24 11:29

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240509\20240509-005	**Lab Code:**	EQ2400224-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840324
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400224-01	347,348	3.51
Method Blank	EQ2400222-04	356,851	3.51
Lab Control Sample	EQ2400222-01	358,780	3.51
Duplicate Lab Control Sample	EQ2400222-02	348,188	3.51

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:**	E2400475
Project:	HS24050528	**Date Analyzed:**	5/9/24 12:28

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240509\20240509-015	**Lab Code:**	EQ2400224-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840324
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400224-02	367,874	3.51
LH18/24-SP650_050824_AIX	E2400475-001	379,828	3.51
LH18/24-SP650_050824_BIX	E2400475-002	375,384	3.50

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:**	E2400475
Project:	HS24050528	**Date Analyzed:**	5/9/24 13:18

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240509\20240509-021	**Lab Code:**	EQ2400224-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840324
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400224-03	362,961	3.50

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: HS24050528

Service Request: E2400475
Date Analyzed: 5/ 9/24

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\20240509\20240509-005

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840324
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.75	0.1558	0.1519	-2.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050528

Service Request: E2400475
Date Analyzed: 5/ 9/24

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\20240509\20240509-015

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840324
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.3	0.1558	0.1597	2.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050528

Service Request: E2400475
Date Analyzed: 5/ 9/24

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\20240509\20240509-021

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840324
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1558	0.1631	4.7	NA	± 15 %	Average RF

Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

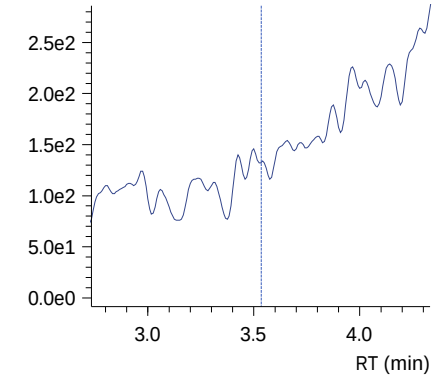
Sample ID: IB
Date Acquired: 5/9/2024 11:06:54 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	352014	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.522	352014	352014	1.0000	ng/mL	----	----	

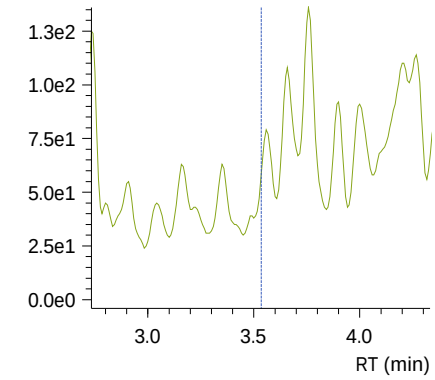
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.86e2



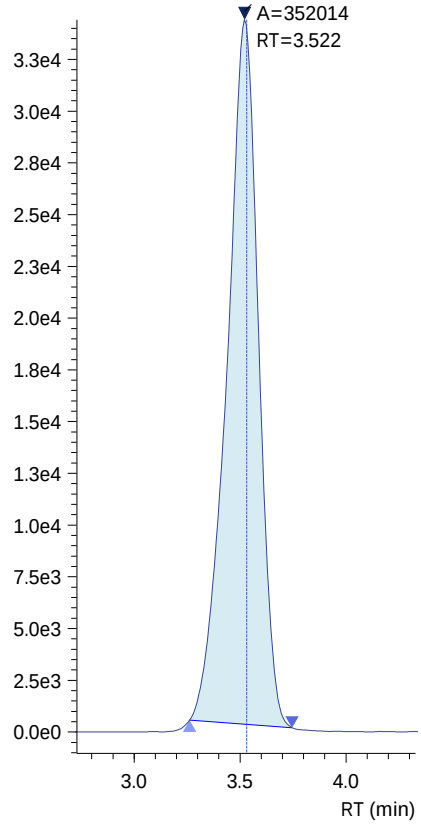
R1 101.00>85.00 (-) 1.36e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.44e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

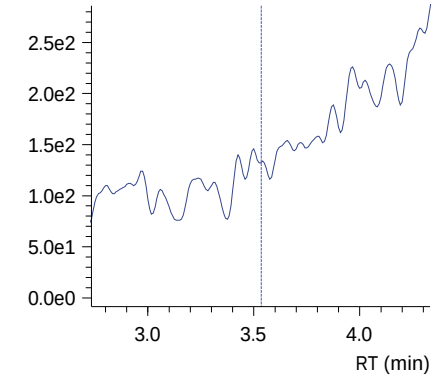
Sample ID: IB
Date Acquired: 5/9/2024 11:06:54 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	352014	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.522	352014	352014	1.0000	ng/mL	----	----	

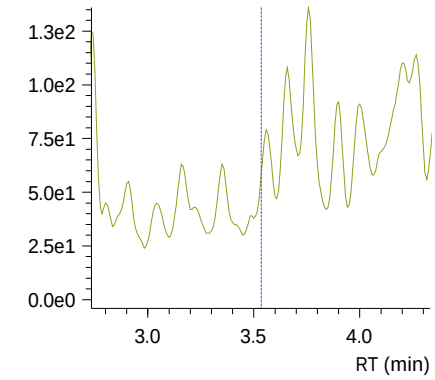
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.86e2



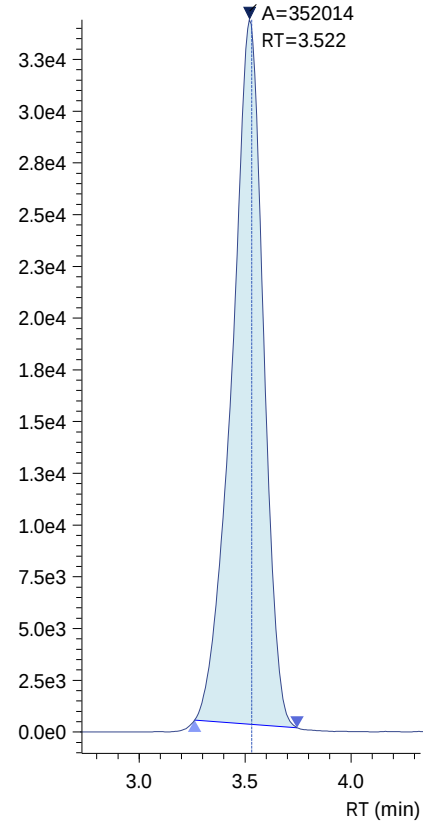
R1 101.00>85.00 (-) 1.36e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.44e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

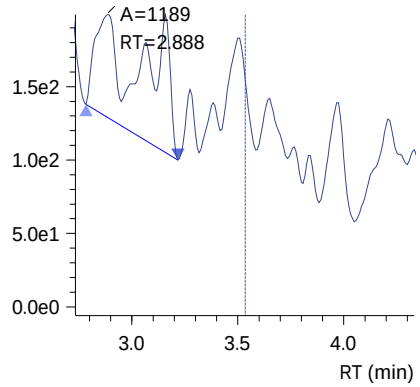
Sample ID: IB
Date Acquired: 5/9/2024 11:12:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	339675	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.516	339675	339675	1.0000	ng/mL	----	----	

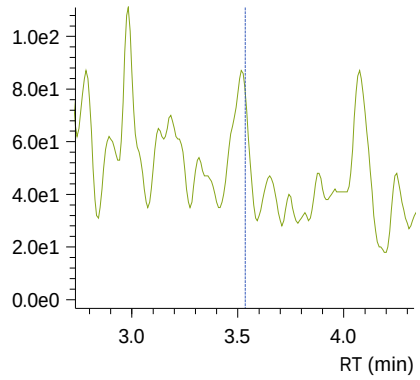
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.99e2



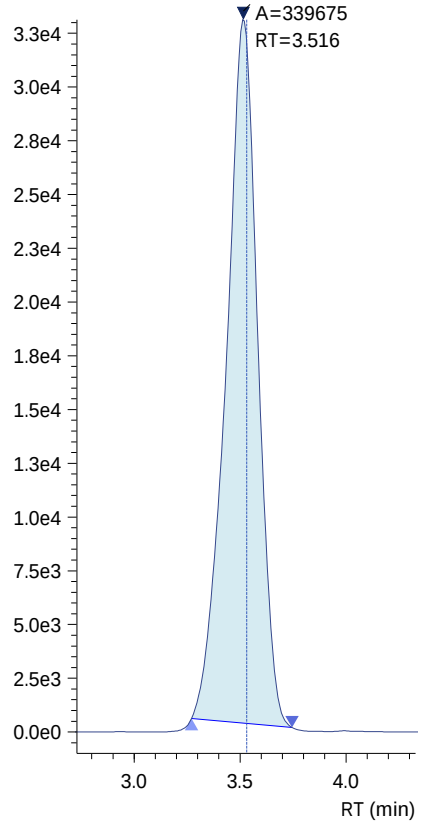
R1 101.00>85.00 (-) 1.11e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.31e4



Insight Report

Printed at 5/9/2024 3:09:54 PM

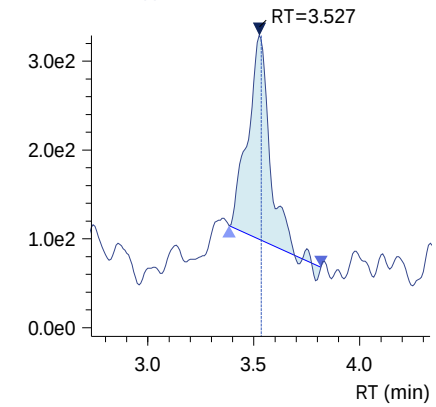
LODV

Sample ID: LODV
Date Acquired: 5/9/2024 11:17:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

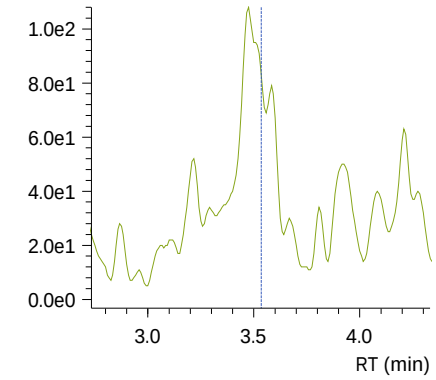
Perchlorate

Conc 0.0305
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1633 3.29e2



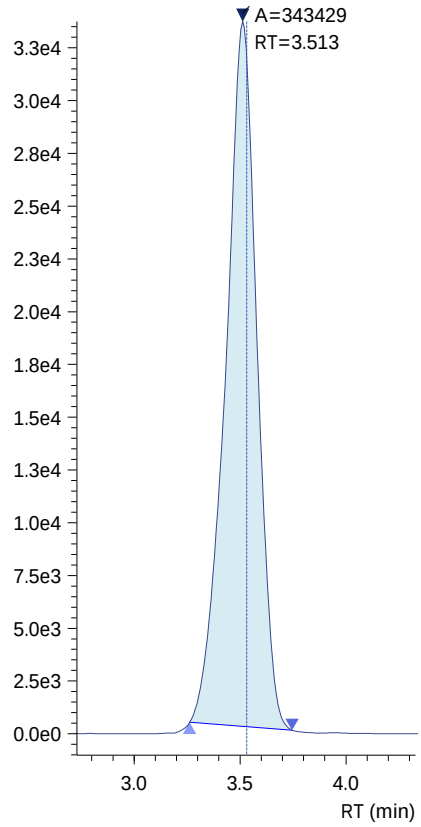
R1 101.00>85.00 (-) 1.08e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.37e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

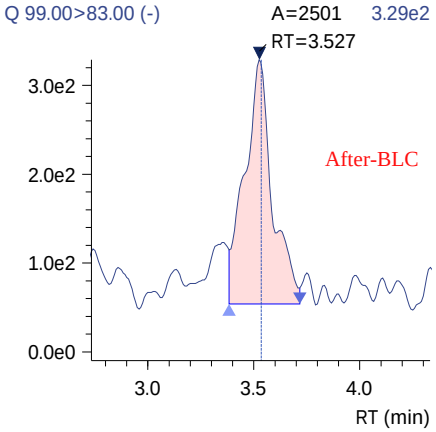
LODV

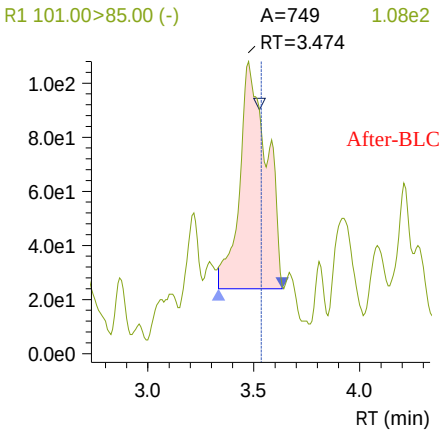
Sample ID: LODV
Date Acquired: 5/9/2024 11:17:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.527	2501	343429	0.0467	ng/mL	101.00 >85.00	29.94	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.513	343429	343429	1.0000	ng/mL	----	----	

Perchlorate

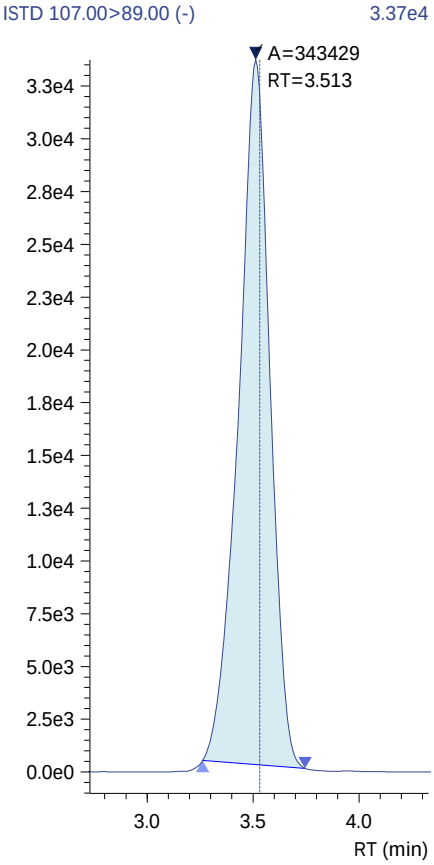
Conc 0.0467
R#1 29.94 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/9/2024 3:09:54 PM

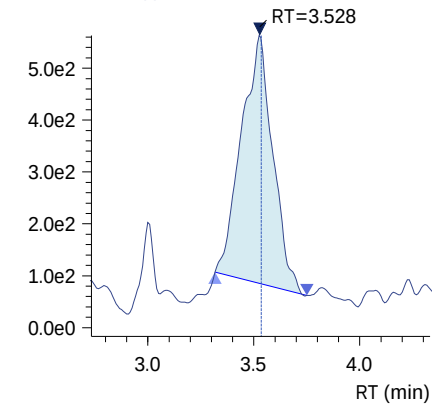
ICS

Sample ID: ICS
Date Acquired: 5/9/2024 11:23:29 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

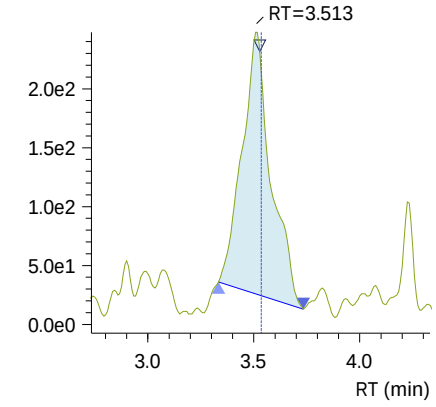
Perchlorate

Conc 0.0829
R#1 42.81 (34.10)

Q 99.00>83.00 (-) A=4921 5.63e2



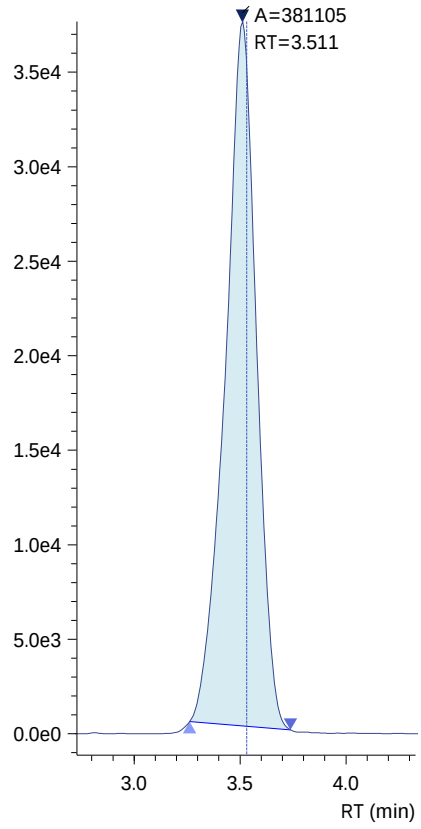
R1 101.00>85.00 (-) A=2107 2.48e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.77e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

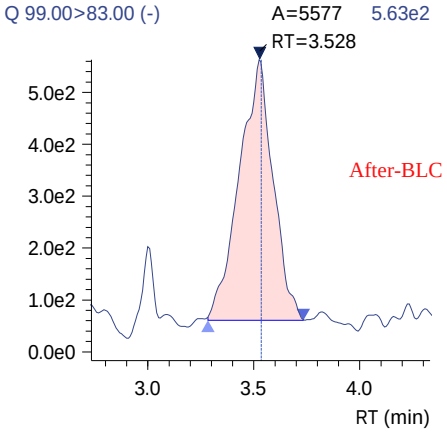
ICS

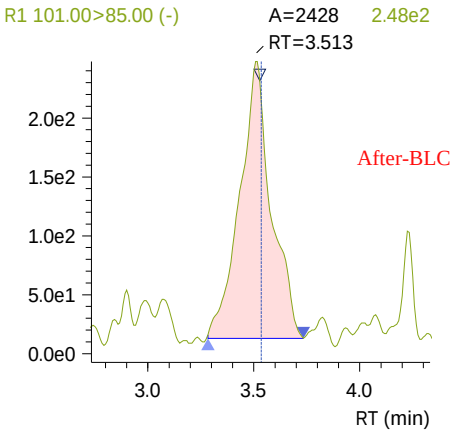
Sample ID: ICS
Date Acquired: 5/9/2024 11:23:29 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.528	5577	381105	0.0939	ng/mL	101.00 >85.00	43.54	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.511	381105	381105	1.0000	ng/mL	----	----	

Perchlorate

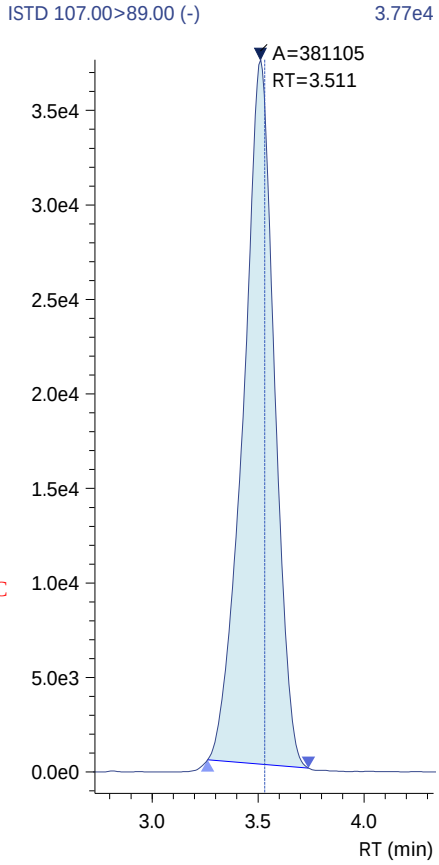
Conc 0.0939
R#1 43.54 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

CCV

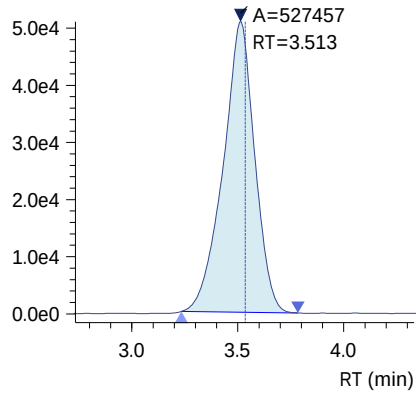
Sample ID: CCV
Date Acquired: 5/9/2024 11:29:02 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.513	527457	347348	9.7464	ng/mL	101.00 >85.00	33.75	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.510	347348	347348	1.0000	ng/mL	----	----	

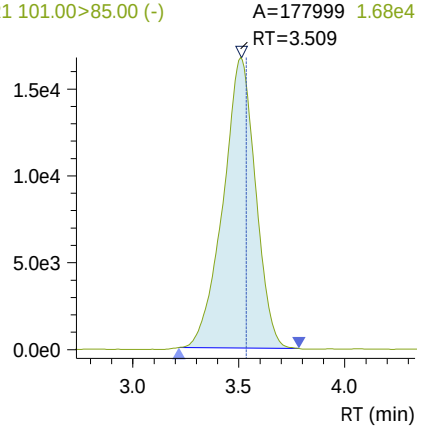
Perchlorate

Conc 9.7464
R#1 33.75 (34.10)

Q 99.00>83.00 (-) 5.11e4



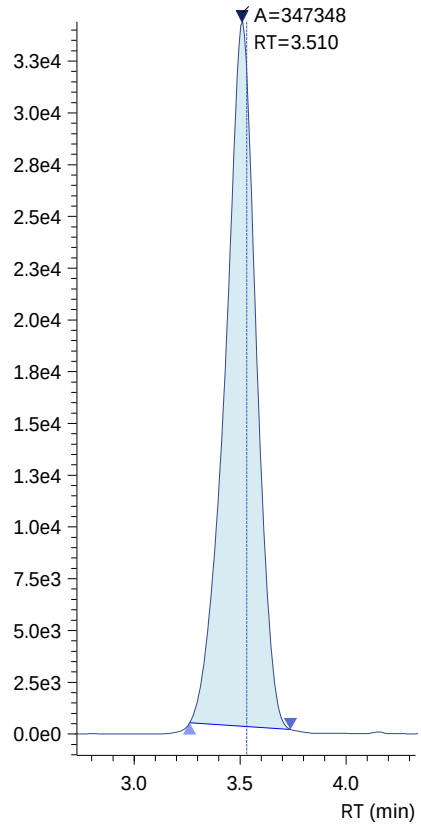
R1 101.00>85.00 (-) A=177999 1.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.44e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

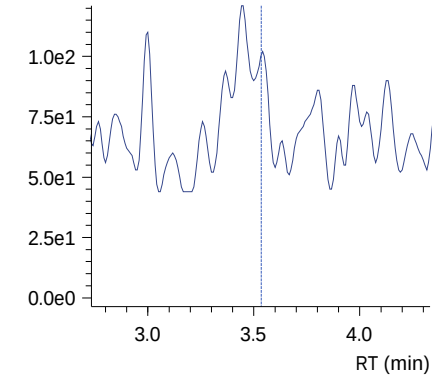
Sample ID: IB
Date Acquired: 5/9/2024 11:49:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	357749	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.509	357749	357749	1.0000	ng/mL	----	----	

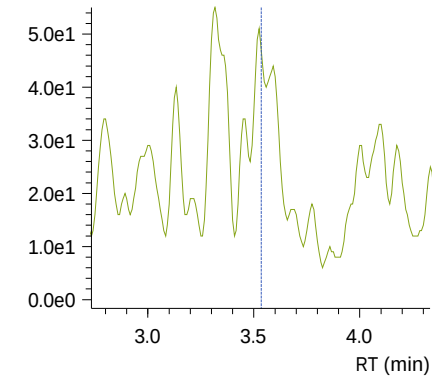
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.21e2



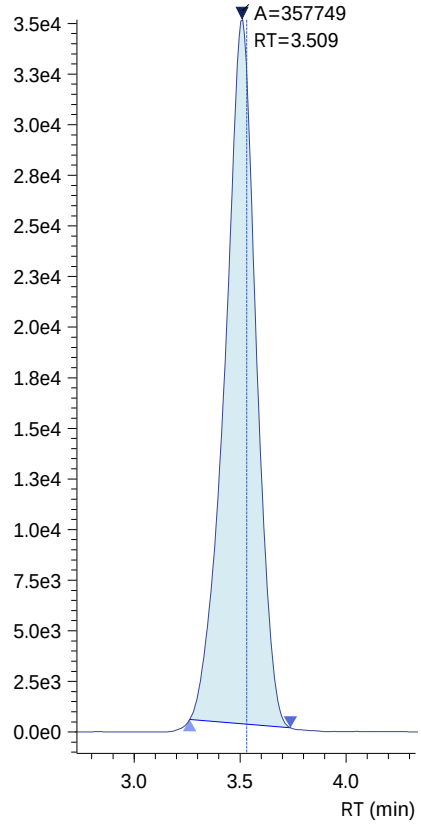
R1 101.00>85.00 (-) 5.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.52e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

EQ2400222-04MB

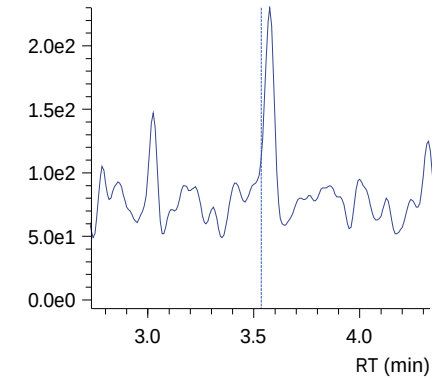
Sample ID: EQ2400222-04MB
Date Acquired: 5/9/2024 11:54:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-007.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	356851	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.507	356851	356851	1.0000	ng/mL	----	----	

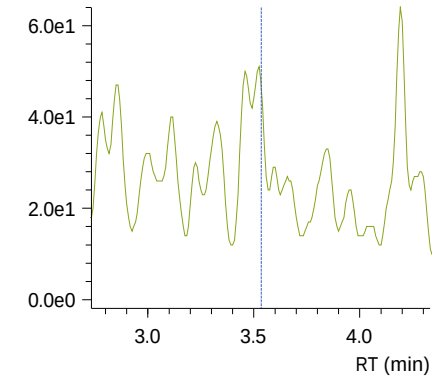
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.30e2



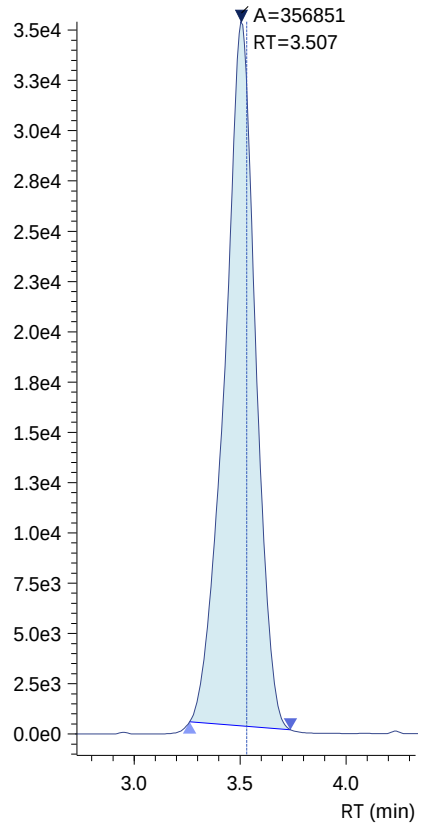
R1 101.00>85.00 (-) 6.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.54e4



Insight Report

Printed at 5/10/2024 8:46:29 AM

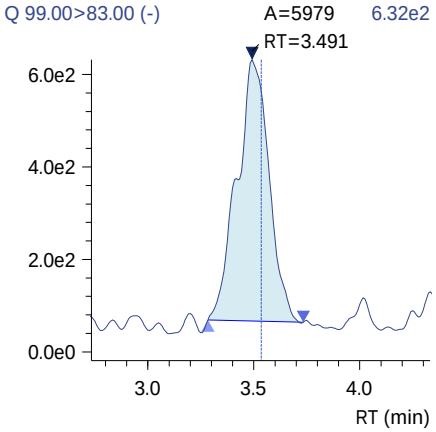
EQ2400222-01LCS

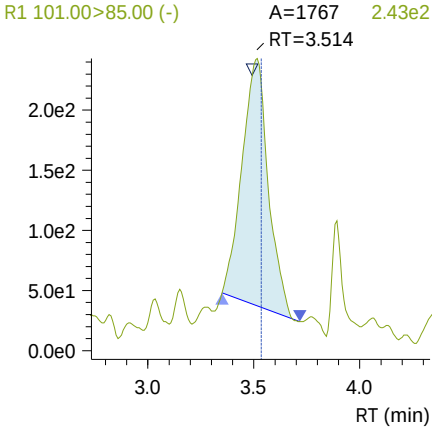
Sample ID: EQ2400222-01LCS
Date Acquired: 5/9/2024 12:00:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-008.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.491	5979	358780	0.1070	ng/mL	101.00 >85.00	29.55	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.506	358780	358780	1.0000	ng/mL	----	----	

Perchlorate

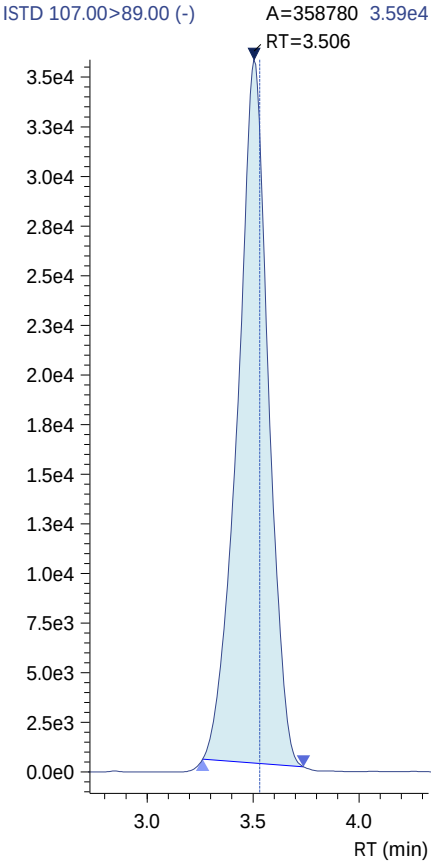
Conc 0.1070
R#1 29.55 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/9/2024 3:09:54 PM

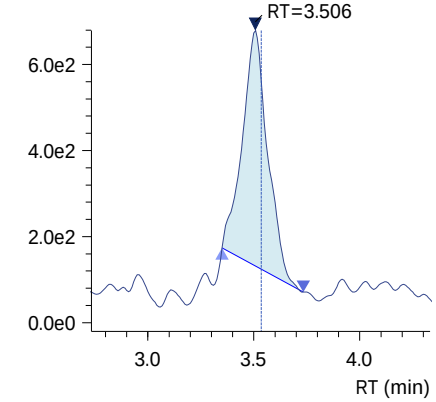
EQ2400222-02DLCS

Sample ID: EQ2400222-02DLCS
Date Acquired: 5/9/2024 12:05:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-009.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

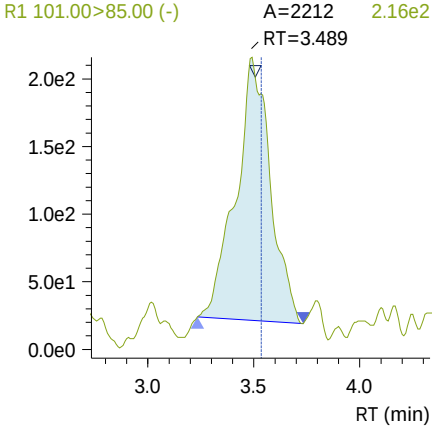
Perchlorate

Conc 0.0837
R#1 48.71 (34.10)

Q 99.00>83.00 (-) A=4541 6.79e2 RT=3.506



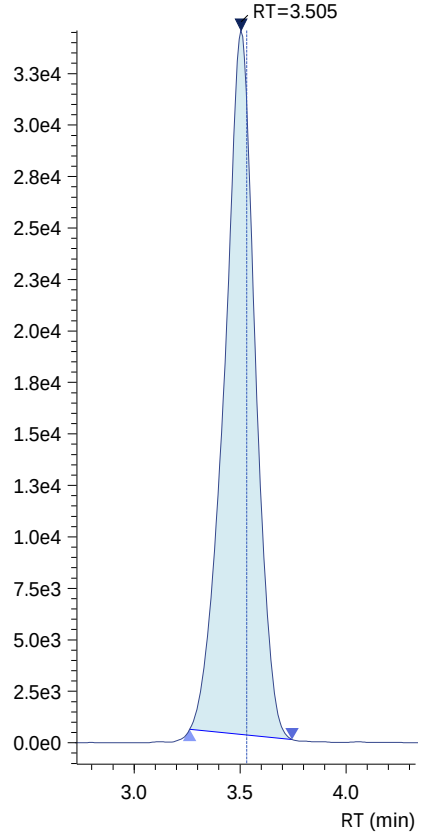
R1 101.00>85.00 (-) A=2212 2.16e2 RT=3.489



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=348188 3.46e4 RT=3.505



Insight Report

Printed at 5/10/2024 8:46:29 AM

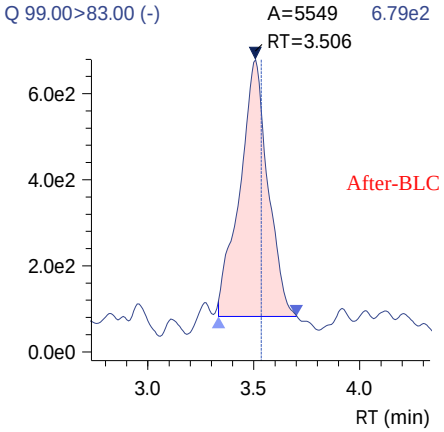
EQ2400222-02DLCS

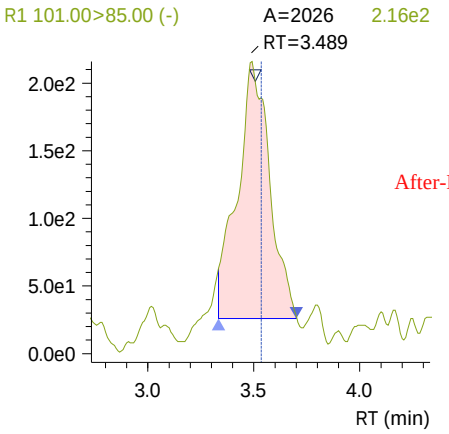
Sample ID: EQ2400222-02DLCS
Date Acquired: 5/9/2024 12:05:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-009.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.506	5549	348188	0.1023	ng/mL	101.00 >85.00	36.52	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.505	348188	348188	1.0000	ng/mL	----	----	

Perchlorate

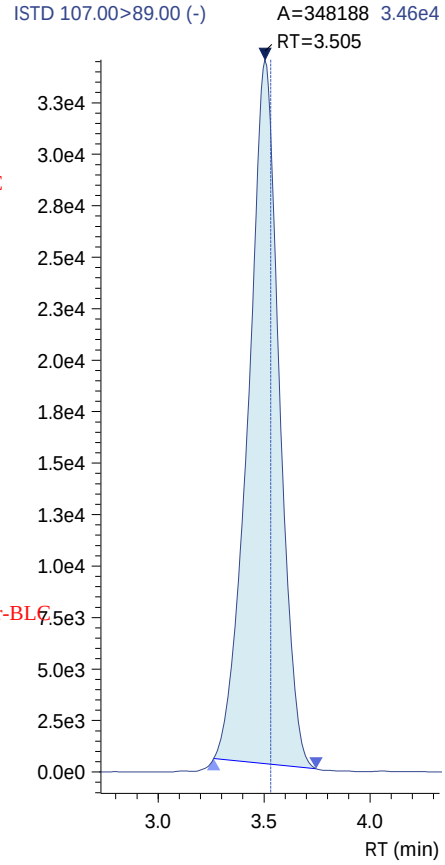
Conc 0.1023
R#1 36.52 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

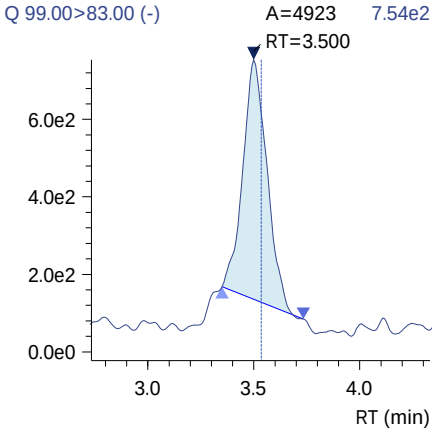
EQ2400222-03ICS

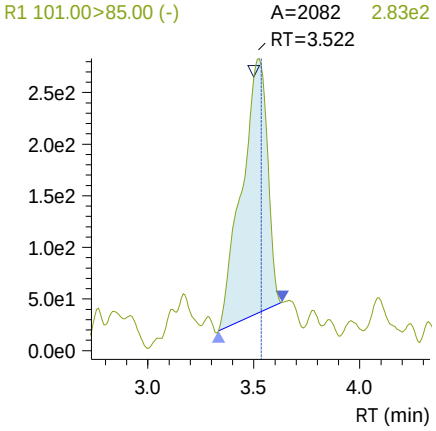
Sample ID: EQ2400222-03ICS
Date Acquired: 5/9/2024 12:11:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-010.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.500	4923	357127	0.0885	ng/mL	101.00 >85.00	42.28	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.506	357127	357127	1.0000	ng/mL	----	----	

Perchlorate

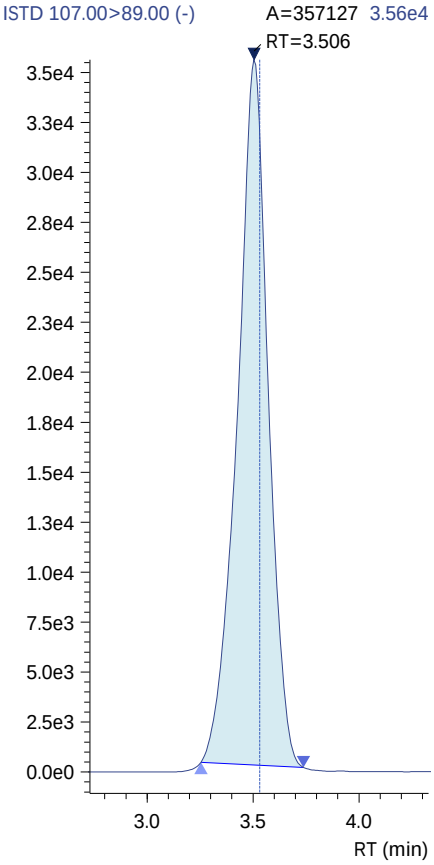
Conc 0.0885
R#1 42.28 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

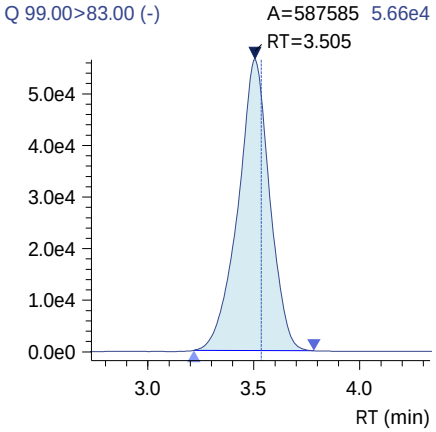
CCV

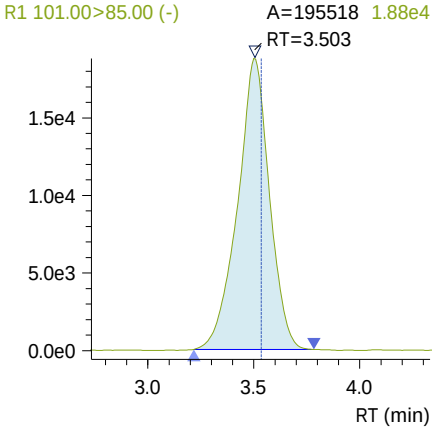
Sample ID: CCV
Date Acquired: 5/9/2024 12:28:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-015.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.505	587585	367874	10.2 517	ng/mL	101.00 >85.00	33.28	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.505	367874	367874	1.0000	ng/mL	----	----	

Perchlorate

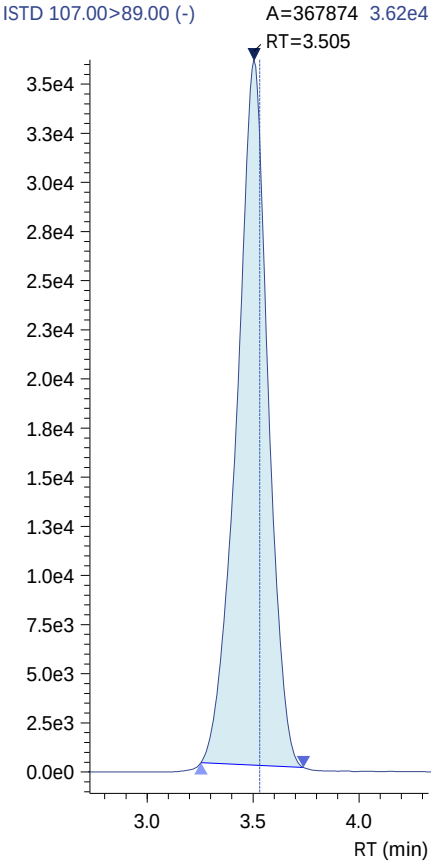
Conc 10.2517
R#1 33.28 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

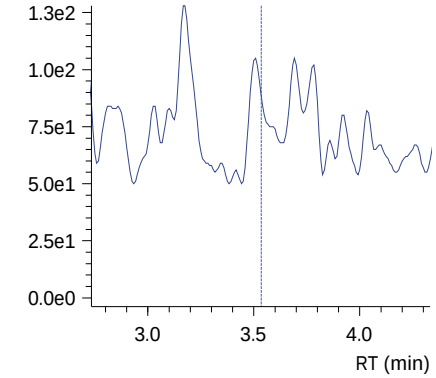
Sample ID: IB
Date Acquired: 5/9/2024 12:50:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-016.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	366203	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.505	366203	366203	1.0000	ng/mL	----	----	

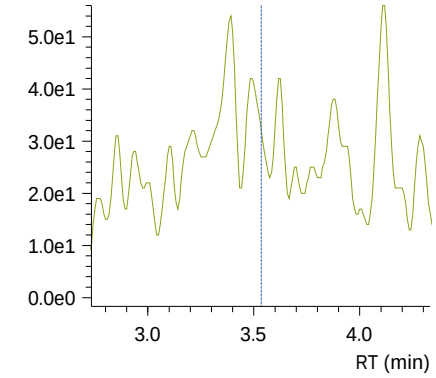
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.28e2



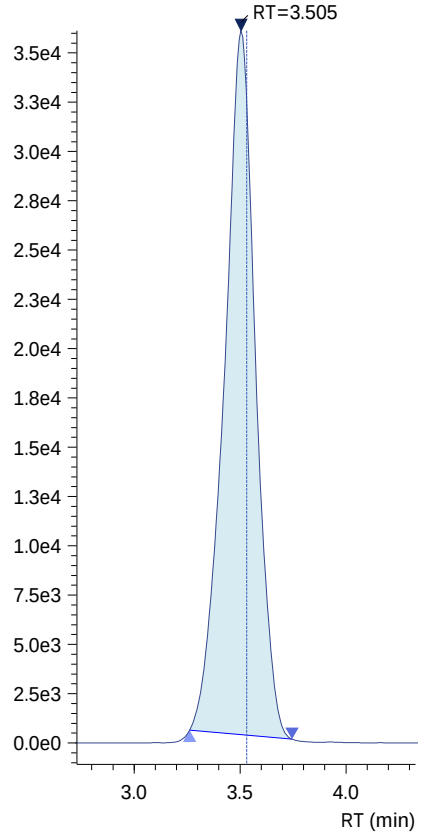
R1 101.00>85.00 (-) 5.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=366203 3.61e4
RT=3.505



Insight Report

Printed at 5/9/2024 3:09:54 PM

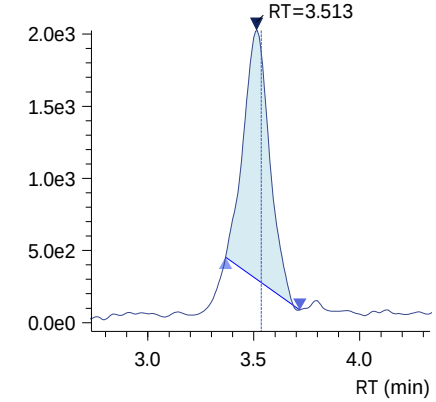
E2400475-001

Sample ID: E2400475-001
Date Acquired: 5/9/2024 1:07:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-019.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 1

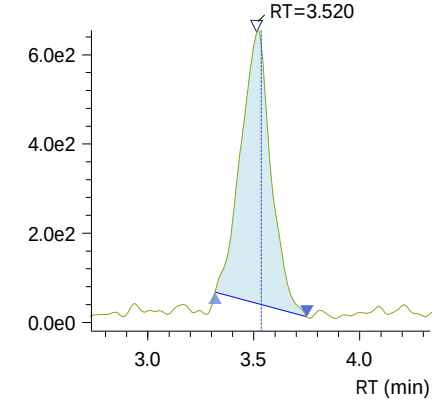
Perchlorate

Conc 0.2484
R#1 41.04 (34.10)

Q 99.00>83.00 (-) A=14698 2.03e3 RT=3.513



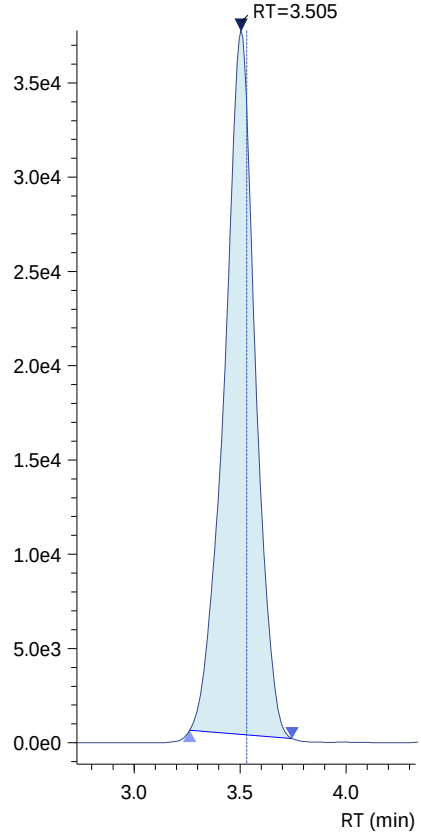
R1 101.00>85.00 (-) A=6032 6.55e2 RT=3.520



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=379828 3.78e4 RT=3.505



Insight Report

Printed at 5/10/2024 8:46:29 AM

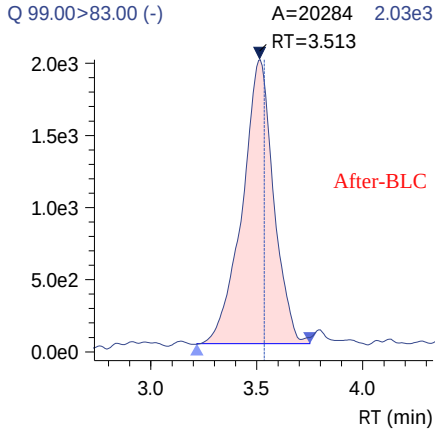
E2400475-001

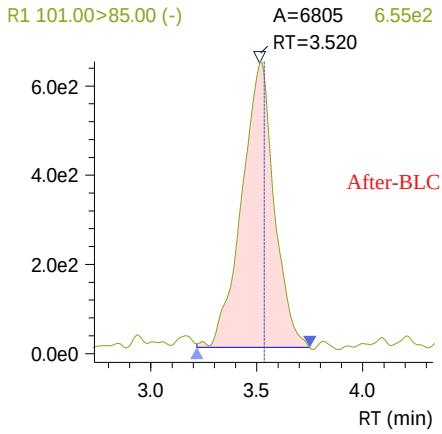
Sample ID: E2400475-001
Date Acquired: 5/9/2024 1:07:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-019.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.513	20284	379828	0.3428	ng/mL	101.00 >85.00	33.55	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.505	379828	379828	1.0000	ng/mL	----	----	

Perchlorate

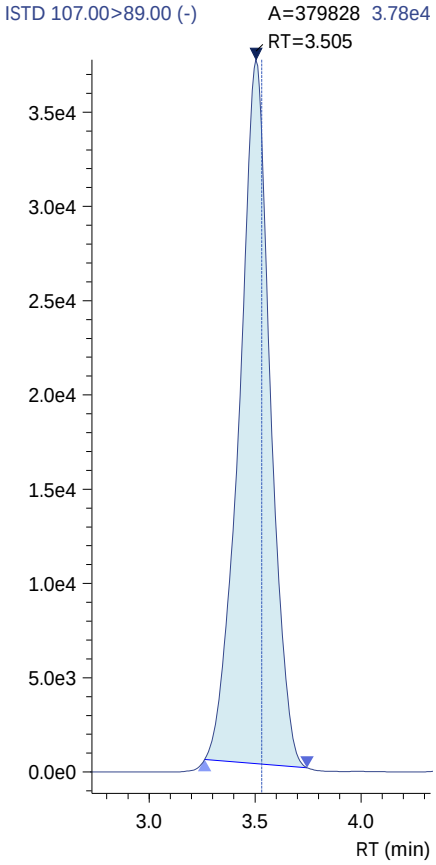
Conc 0.3428
R#1 33.55 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

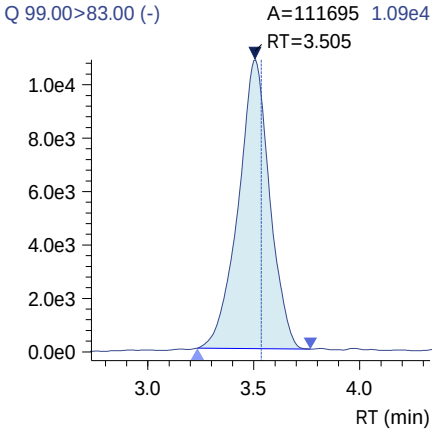
E2400475-002

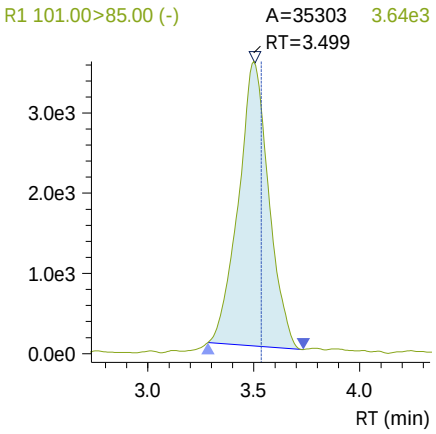
Sample ID: E2400475-002
Date Acquired: 5/9/2024 1:12:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-020.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.505	111695	375384	1.9098	ng/mL	101.00 >85.00	31.61	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.504	375384	375384	1.0000	ng/mL	----	----	

Perchlorate

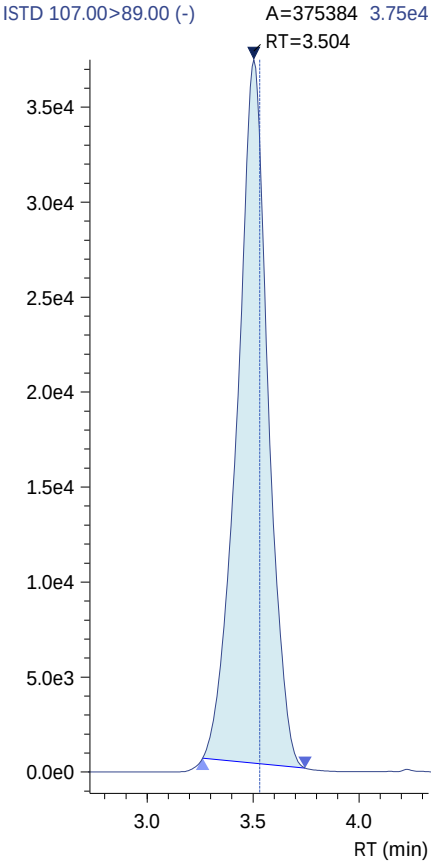
Conc 1.9098
R#1 31.61 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

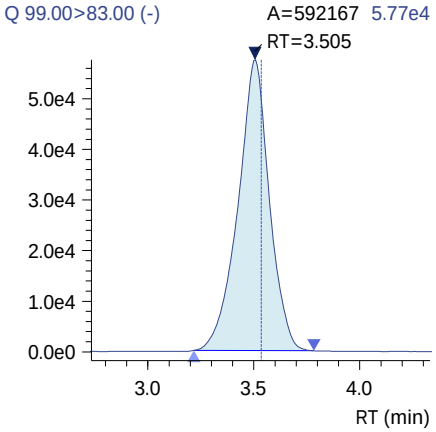
CCV

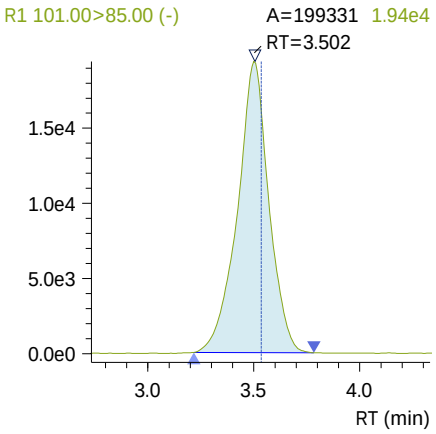
Sample ID: CCV
Date Acquired: 5/9/2024 1:18:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-021.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.505	592167	362961	10.4715	ng/mL	101.00 >85.00	33.66	23.49 -43.63
Sodium Perchlorate -18O4_IS	Auto	3.501	362961	362961	1.0000	ng/mL	----	----	

Perchlorate

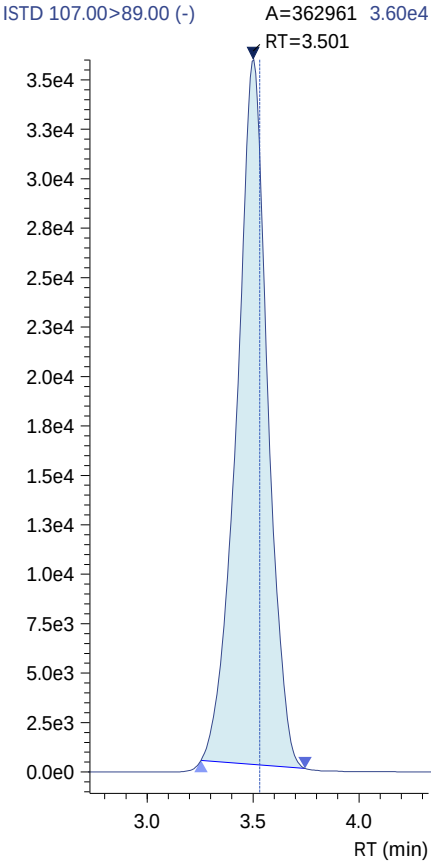
Conc 10.4715
R#1 33.66 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/10/2024 8:46:29 AM

IB

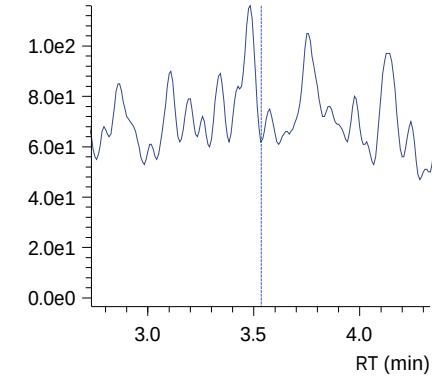
Sample ID: IB
Date Acquired: 5/9/2024 1:23:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240509\20240509-022.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	357760	----	ng/mL	101.00 >85.00	0.00	23.49 -43.63
Sodium Perchlorate-18O4_IS	Auto	3.501	357760	357760	1.0000	ng/mL	----	----	

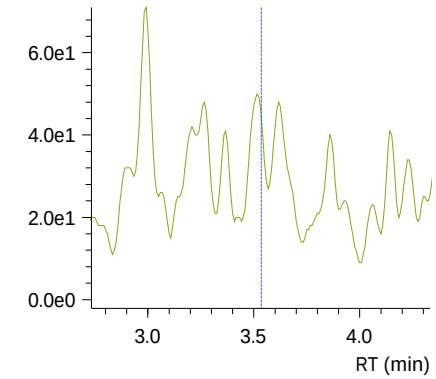
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.16e2



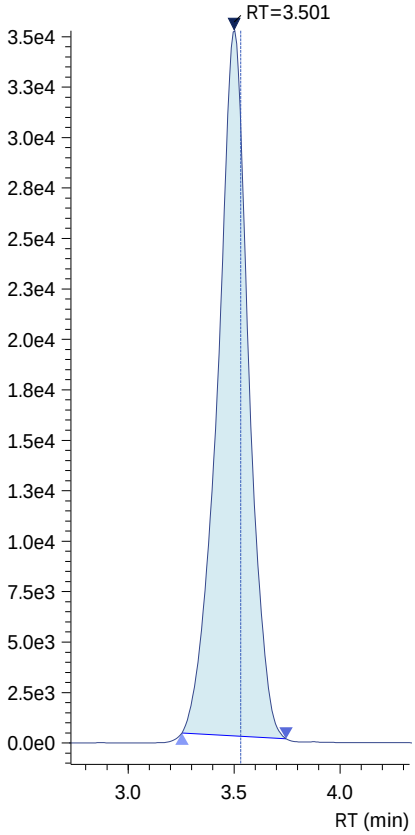
R1 101.00>85.00 (-) 7.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=357760 3.53e4
RT=3.501



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WorkOrder: HS24050529

Longhorn GW Treatment Plant Monthly Influent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

14-Jun-2024

WorkOrder: HS24050529

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- HS24050529 - ME - ICP_W_DOD
  - Form 11 - ICPMS06 Internal Standard Association
  - Form 13 - ICPMS06_466763 Run Log
  - Form 2 - ICPMS06_466763 CCV
  - Form 3 - ICPMS06_466763 CCB
  - Form 4 - ICPMS06_466763 ICSA
  - Form 5A - ICPMS06_466763 MS

Table of Contents (continued)

Form 5B - ICPMS06_466763 PDS

Form 7 - ICPMS06_466763 LCS

Form 8 - ICPMS06_466763 SD

HS24050529 Wetchem Cr6_W_7196_DOD

HS24050529 E2400476 Perch Level IV Report

CoverLetter

Certificate of Analysis

Chain of Custody

Preparation Sheets

Analytical Results

Accuracy and Precision

Initial Calibration

Chromatograms and Selected Ion Monitoring

HS24050529 Longhorn GW Treatment Plant Monthly Influent Samples COVER PAGE

ALS WO# HS24050529

HS24050529 Longhorn GW Treatment Plant Monthly Effluent Samples Final

ALS WO# HS24050529

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

May 20, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24050529**

Laboratory Results for: **Longhorn GW Treatment Plant Monthly Effluent Samples**

Dear Marcia Olive,

ALS Environmental received 1 sample(s) on May 09, 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: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Work Order: HS24050529

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050529-01	LH18/24-SP140_050824	Water		08-May-2024 13:00	09-May-2024 10:20	☐

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Work Order: HS24050529

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

Metals by Method SW6020A

Batch ID: 211834

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7196

Batch ID: R466388

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder:HS24050529
Sample ID: LH18/24-SP140_050824
Lab ID:HS24050529-01
Collection Date: 08-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 / 13-May-2024		Analyst: JC
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	15-May-2024 12:18
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	15-May-2024 12:18
HEXAVALENT CHROMIUM BY SW7196A		**Method:SW7196**						Analyst: HB
Chromium, Hexavalent	0.0100	U	0.00600	0.0100	0.0100	mg/L	1	09-May-2024 12:15
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	20-May-2024 14:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

WorkOrder: HS24050529

Batch ID: 211834 **Start Date:** 13 May 2024 10:00 **End Date:** 13 May 2024 10:00

Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24050529-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050529

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 211834 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24050529-01	LH18/24-SP140_050824	08 May 2024 13:00		13 May 2024 10:00	15 May 2024 12:18	1
Batch ID: R466388 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SW7196A				**Matrix:** Water	
HS24050529-01	LH18/24-SP140_050824	08 May 2024 13:00			09 May 2024 12:15	1
Batch ID: R467167 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24050529-01	LH18/24-SP140_050824	08 May 2024 13:00			20 May 2024 14:22	1

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050529

QC BATCH REPORT

Batch ID: 211834 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-211834** Units: **mg/L** Analysis Date: **15-May-2024 12:14**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010772** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U

LCS Sample ID: **LCS-211834** Units: **mg/L** Analysis Date: **15-May-2024 12:16**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010773** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04509	0.00500	0.05	0	90.2	80 - 120				
Silver	0.04959	0.00500	0.05	0	99.2	85 - 116				

MS Sample ID: **HS24050529-01MS** Units: **mg/L** Analysis Date: **15-May-2024 12:22**
Client ID: **LH18/24-SP140_050824** Run ID: **ICPMS06_466763** SeqNo: **8010776** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04835	0.00500	0.05	0.000492	95.7	80 - 120				
Silver	0.04666	0.00500	0.05	0.000122	93.1	85 - 116				

MSD Sample ID: **HS24050529-01MSD** Units: **mg/L** Analysis Date: **15-May-2024 12:24**
Client ID: **LH18/24-SP140_050824** Run ID: **ICPMS06_466763** SeqNo: **8010777** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04895	0.00500	0.05	0.000492	96.9	80 - 120	0.04835	1.25	20	
Silver	0.04904	0.00500	0.05	0.000122	97.8	85 - 116	0.04666	4.97	20	

PDS Sample ID: **HS24050529-01PDS** Units: **mg/L** Analysis Date: **15-May-2024 12:26**
Client ID: **LH18/24-SP140_050824** Run ID: **ICPMS06_466763** SeqNo: **8010778** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.09724	0.00500	0.1	0.000492	96.7	80 - 120				
Silver	0.09318	0.00500	0.1	0.000122	93.1	80 - 120				

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050529

QC BATCH REPORT

Batch ID: 211834 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24050529-01SD** Units: **mg/L** Analysis Date: **15-May-2024 12:20**
Client ID: **LH18/24-SP140_050824** Run ID: **ICPMS06_466763** SeqNo: **8010775** PrepDate: **13-May-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Selenium	0.0125	0.0250					0	0	10	U
Silver	0.00250	0.0250					0	0	10	U

The following samples were analyzed in this batch: HS24050529-01

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050529

QC BATCH REPORT

Batch ID: R466388 (0) **Instrument: UV-2450** **Method: HEXAVALENT CHROMIUM BY SW7196A**

MBLK Sample ID: **MBLK-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002340** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.0100	0.0100								U

LCS Sample ID: **LCS-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002339** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.247	0.0100	0.25	0	98.8	80 - 120				

LCSD Sample ID: **LCSD-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002338** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.25	0.0100	0.25	0	100	86 - 117	0.247	1.21	15	

MS Sample ID: **HS24050523-12MS** Units: **mg/L** Analysis Date: **09-May-2024 12:06**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002342** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.267	0.0100	0.25	0	107	86 - 117				

MSD Sample ID: **HS24050523-12MSD** Units: **mg/L** Analysis Date: **09-May-2024 12:07**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002341** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.261	0.0100	0.25	0	104	86 - 117	0.267	2.27	15	

The following samples were analyzed in this batch: HS24050529-01

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: **HS24050529**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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: 20-May-24

Sample Receipt Checklist

Work Order ID: HS24050529 **Date/Time Received:** 09-May-2024 10:20

Client Name: Bhate Environmental **Received by:** Nelson D. Dusara

Completed By: /S/ Jacob Coronado (eSignature) 09-May-2024 11:49 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 09-May-2024 20:57 (Date/Time)

Matrices: w 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 ☐	
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):	2.8uc/2.9c	ir31	
Cooler(s)/Kit(s):	blue		
Date/Time sample(s) sent to storage:	05/09/2024 1150		
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:

HS24050529

Bhate Environmental Associates, Inc.

Longhorn GW Treatment Plant Monthly Effluent Sam

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guin

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT MONTHLY INFLUENT 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: SILVER & SELENIUM	HEXAVALENT CHROMIUM	PERCHLORATE								Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP140_050824	Water	05/08/24 / 13:00		1	X										HNO3	
LH18/24-SP140_050824	Water	05/08/24 / 13:00		2		X	X								NONE	

Additional Remarks: **STANDARD TURN AROUND TIME**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	05/08/24	13:30		05/09/24	1040						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

blue 2-8

IR31

(Word) S:\I-oes\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5/8/24 Time: 1330
Name:
Company:

Seal Broken By:
Date: 05/09/24

Must Deliver Next Business Day
Time and Tempature Sensitive!

ORIGIN ID:SGRA (903) 930-8193
ATT: SCOTT BEESINGER
APTIM
1203-B EAST GRAND AVE PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 01MAR24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: PERCHLORATE-BO99259-AN
RMA:

FedEx
TRK# 0221 6862 6802 6909

THU - 09 MAY AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

May 20, 2024 Service Request No:E2400476

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050529

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 09, 2024
For your reference, these analyses have been assigned our service request number **E2400476.**

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

Client:	ALS Environmental - US	Service Request No.:	E2400476
Project:	HS24050529	Date Received:	05/09/24
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 05/09/24.

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:

EQ2400230: 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:**E2400476
Project: HS24050529

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400476-001	LH18/24-SP140_050824	5/8/2024	1300

Service Request Summary

Folder #: **E2400476**
Client Name: ALS Environmental - US
Project Name: HS24050529
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: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400476-001	LH18/24-SP140_050824	Water	05/08/24 1300	**IV**

Service Request Summary

Folder #: **E2400476**
Client Name: ALS Environmental - US
Project Name: HS24050529
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: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
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 Hampshire Environmental Laboratory Accreditation Program	04016-2024	4/30/2025
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
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

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Phone (281)530-5656 Fax (281)530-5887
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E2400476
ALS Group USA, Corp.
HS24050529

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25598**

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:	HS24050529
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050529-01**	**LH18/24-SP140_050824**	**Water**	**08 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			16 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: 5/9/24 1020

Cooler ID(s): _____ Temperature(s): _____

E2400476 5
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HS24050529

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Sample Receipt Checklist

Work Order ID: HS24050529 **Date/Time received:** 09 May 2024 10:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Nelson D. Dusara

Completed/By: 09 May 2024 11:49 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 05/09/2024 1150

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#: 438298 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 5/10/24 13:04

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400464-001	LGAC-INF-050624	.02	6850/ClO4 DOD			Water	10mL	
2	E2400476-001	LH18/24-SP140_050824	.01	6850/ClO4 DOD			Water	10mL	
3	E2400477-001	LH18/24-SP650_050824_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2400230-01	MB		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400230-02	LCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400230-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
7	EQ2400230-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400464-001 100.00µL E2400476-001 100.00µL E2400477-001 100.00µL EQ2400230-01 100.00µL EQ2400230-02 100.00µL EQ2400230-03 100.00µL
EQ2400230-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400230-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400230-02 100.00µL EQ2400230-03 100.00µL EQ2400230-04 100.00µL

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 (231696)

Preparation Steps

Step: Preparation
Started: 5/10/24 13:04
Finished: 5/10/24 16:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Preparation Information Benchsheet

Prep Run#: 438298
Team: Semivoa GCMS/JOSEL.JUAREZ

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/10/24 13:04

Chain of Custody

Relinquished By:		Date:		Extracts Examined
Received By:		Date:		Yes No

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Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP140_050824	**Units:**	µg/L
Lab Code:	E2400476-001	**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	**24100**		100	50.0	25.0	1000	5/10/24	5/14/24 15:55	438298	840924	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400230-01	**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	5/10/24	5/10/24 17:15	438298	840923	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Analyzed:**	5/10/24 - 5/14/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	438298

	Lab Control Sample EQ2400230-02			Duplicate Lab Control Sample EQ2400230-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0982	0.100	98	0.110	0.100	110	84 - 119	12	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:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-02	**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	**0.0982**	J	0.100	0.0500	0.0250	1	5/10/24	5/10/24 17:21	438298	840923	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-03	**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	**0.110**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:33	438298	840924	

HS24050529 - ME - ICP_W_DOD

ALS WO# HS24050529

ALS Houston, US Date: 14-Jun-24

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc. Instrument:ICPMS06

Project: Longhorn GW Treatment Plant Monthly Influent Samples

WorkOrder: HS24050529

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US

Date: 14-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529
Start Date: 15-May-2024 End Date: 15-May-2024

Run ID:ICPMS06_466763
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_466763_Tune	1	15-May-2024 00:00	ICPMS06_466763_Tune_1	
CAL BLK	1	15-May-2024 11:22	010CALB.d_8010626	AG SE
2/10/200	1	15-May-2024 11:24	011CALS.d_8010627	AG SE
5/25/500	1	15-May-2024 11:26	012CALS.d_8010628	AG SE
10/50/100	1	15-May-2024 11:28	013CALS.d_8010629	AG SE
100/500/10K	1	15-May-2024 11:30	014CALS.d_8010630	AG SE
200/1000/20K	1	15-May-2024 11:32	015CALS.d_8010631	AG SE
100/500/10K	1	15-May-2024 11:41	018CALS.d_8010634	AG SE
LLICV5	1	15-May-2024 11:48	021LCV5.d_8010637	AG SE
LLICV2	1	15-May-2024 11:50	022LCV2.d_8010638	AG SE
ICB	1	15-May-2024 11:52	023_ICB.d_8010639	AG SE
ICV	1	15-May-2024 11:54	024_ICV.d_8010640	AG SE
ICSA	1	15-May-2024 12:01	026ICSA.d_8010669	AG SE
ICSAB	1	15-May-2024 12:03	027ICSB.d_8010670	AG SE
CCV 1	1	15-May-2024 12:10	030_CCV.d_8010770	AG SE
CCB 1	1	15-May-2024 12:12	031_CCB.d_8010771	AG SE
MBLK-211834	1	15-May-2024 12:14	032SMPL.d_8010772	AG SE
LCS-211834	1	15-May-2024 12:16	033SMPL.d_8010773	AG SE
LH18/24-SP140_050824	1	15-May-2024 12:18	034SMPL.d_8010774	AG SE
LH18/24-SP140_050824SD	5	15-May-2024 12:20	035SMPL.d_8010775	AG SE
LH18/24-SP140_050824MS	1	15-May-2024 12:22	036SMPL.d_8010776	AG SE
LH18/24-SP140_050824MSD	1	15-May-2024 12:24	037SMPL.d_8010777	AG SE
LH18/24-SP140_050824PDS	1	15-May-2024 12:26	038SMPL.d_8010778	AG SE
CCV 2	1	15-May-2024 12:31	041_CCV.d_8010781	AG SE
CCB 2	1	15-May-2024 12:33	042_CCB.d_8010782	AG SE

ALS Houston, US

Date: 14-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Run ID: ICPMS06_466763
Instrument: ICPMS06
Method: SW6020A

ICV	Date: 15-May-2024 11:54		Seq: 8010640	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	105.882	106	90-110	
Silver	100	106.141	106	90-110	

CCV1	Date: 15-May-2024 12:10		Seq: 8010770	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	105.059	105	90-110	
Silver	100	107.968	108	90-110	

CCV2	Date: 15-May-2024 12:31		Seq: 8010781	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	101.909	102	90-110	
Silver	100	104.108	104	90-110	

ALS Houston, US Date: 14-Jun-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Run ID: ICPMS06_466763
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 15-May-2024 11:52		Seq: 8010639	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB1	Date: 15-May-2024 12:12		Seq: 8010771	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

MBLK-211834	Date: 15-May-2024 12:14		Seq: 8010772	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB2	Date: 15-May-2024 12:33		Seq: 8010782	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

ALS Houston, US Date: 14-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS06_466763
Project: Longhorn GW Treatment Plant Monthly Influent Samples Instrument: ICPMS06
WorkOrder: HS24050529 Method: SW6020A

ICSA	Date: 15-May-2024 12:01	Seq: 8010669	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Selenium		0.559	0	
Silver		0.322	0	

ICSAB	Date: 15-May-2024 12:03	Seq: 8010670	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Selenium	100	111.9	112	
Silver	100	102.4	102	

ALS Houston, US Date: 14-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Date Analyzed: 15-May-2024 12:24
Date Extracted: 13-May-2024 10:00
Units: ug/L

Matrix Spike: HS24050529-01MS
Client Sample ID: LH18/24-SP140_050824

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Selenium	5.000	48.35	50.00	95.7	48.95	50.00	96.9	80-120	1.25	20
Silver	5.000	46.66	50.00	93.1	49.04	50.00	97.8	85-116	4.97	20

ALS Houston, US Date: 14-Jun-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Date Analyzed: 15-May-2024 12:26
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: HS24050529-01PDS
Client Sample ID: LH18/24-SP140_050824

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Selenium	0	97.24	100	97	80-120
Silver	0	93.18	100	93	80-120

ALS Houston, US

Date: 14-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Date Analyzed: 15-May-2024 12:16
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: LCS-211834
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Selenium	50	45.09	90	80-120
Silver	50	49.59	99	85-116

ALS Houston, US Date: 14-Jun-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24050529

Date Analyzed: 15-May-2024 12:20
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: HS24050529-01SD
Client Sample ID:LH18/24-SP140_050824

Analysis Method: SW6020A

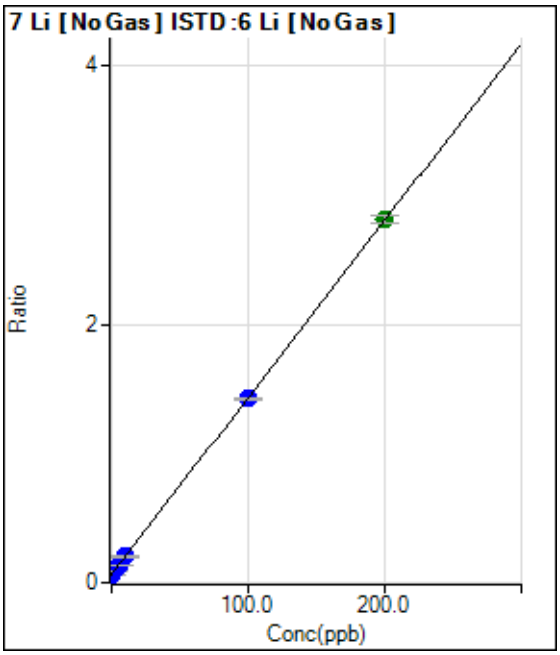
Analyte	Sample Result	C	SD Result	C	RPD	Q
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	

Calibration for 235_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 10:15:22 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	228CALB.d	CAL BLK	5/15/2024 10:01:12 PM
2	229CALS.d	2/10/200	5/15/2024 10:03:08 PM
3	230CALS.d	5/25/500	5/15/2024 10:05:03 PM
4	231CALS.d	10/50/100	5/15/2024 10:06:59 PM
5	232CALS.d	100/500/10K	5/15/2024 10:08:54 PM
6	233CALS.d	200/1000/20K	5/15/2024 10:10:46 PM

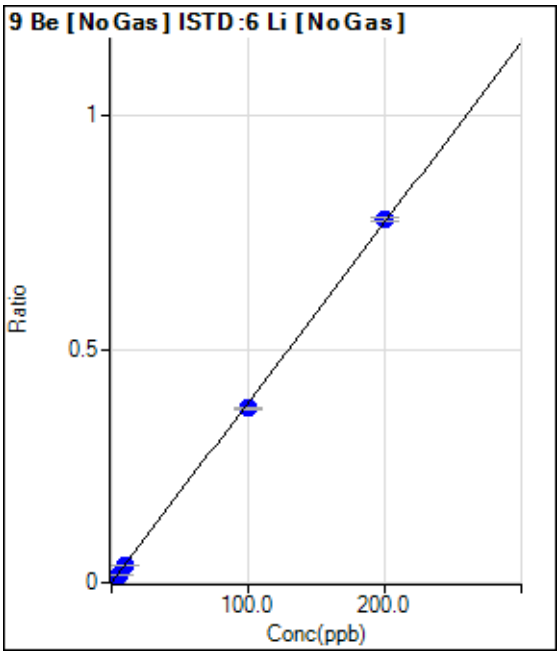
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19430.13	0.0646	P	1.8
2	☐	2.000	1.965	27124.43	0.0915	P	2.4
3	☐	5.000	4.924	38632.87	0.1320	P	2.0
4	☐	10.000	9.981	58375.29	0.2012	P	0.4
5	☐	100.000	99.156	400703.90	1.4218	P	1.0
6	☐	200.000	200.425	750152.75	2.8078	A	2.1

y = 0.0137 * x + 0.0646
R = 1.0000
DL = 0.2494
BEC = 4.722

Weight: <None>
Min Conc: <None>

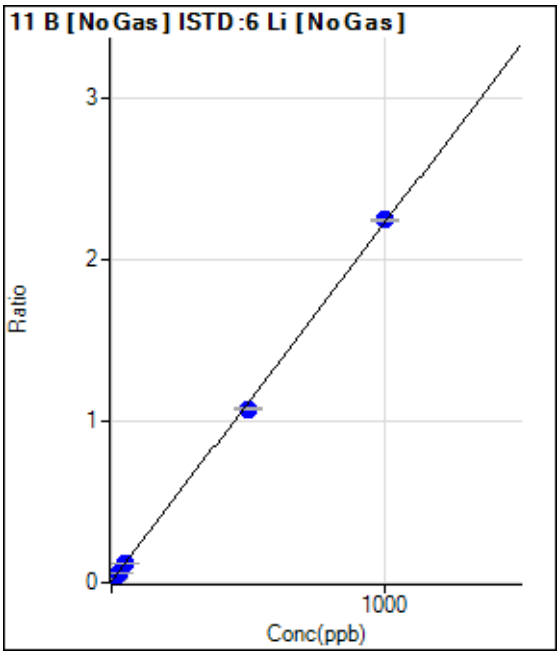


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	86.6
2	☐	2.000	1.876	2156.85	0.0073	P	1.3
3	☐	5.000	4.726	5349.40	0.0183	P	2.2
4	☐	10.000	9.707	10882.62	0.0375	P	1.6
5	☐	100.000	97.116	105683.50	0.3750	P	1.1
6	☐	200.000	201.465	207841.42	0.7779	P	0.9

y = 0.0039 * x + 3.3409E-005
R = 0.9999
DL = 0.02248
BEC = 0.008653

Weight: <None>
Min Conc: <None>

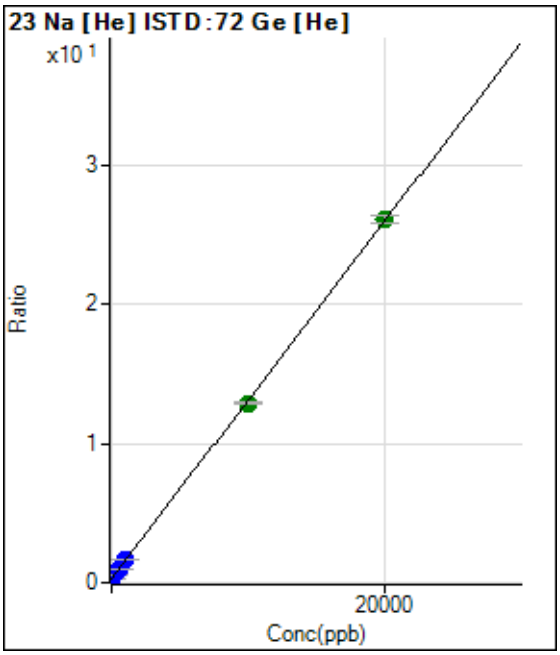
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2503.58	0.0083	P	2.8
2	☐	10.000	9.484	8702.75	0.0294	P	2.2
3	☐	25.000	23.833	17904.81	0.0612	P	1.9
4	☐	50.000	48.094	33364.60	0.1150	P	0.7
5	☐	500.000	480.500	302741.63	1.0743	P	1.3
6	☐	1000.000	1009.879	600784.07	2.2486	P	0.6

y = 0.0022 * x + 0.0083
R = 0.9997
DL = 0.3136
BEC = 3.754

Weight: <None>
Min Conc: <None>

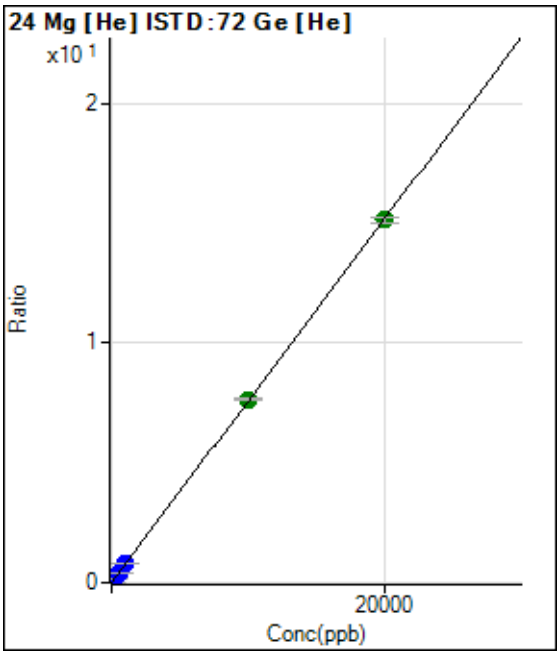


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92535.66	0.2817	P	1.1
2	☐	200.000	207.161	179934.25	0.5481	P	0.5
3	☐	500.000	525.986	315909.62	0.9581	P	1.5
4	☐	1000.000	1064.457	543877.96	1.6505	P	0.2
5	☐	10000.000	9828.429	4228570.25	12.9196	A	1.6
6	☐	20000.000	20081.842	8349449.04	26.1039	A	2.1

y = 0.0013 * x + 0.2817
R = 0.9999
DL = 7.298
BEC = 219.1

Weight: <None>
Min Conc: <None>

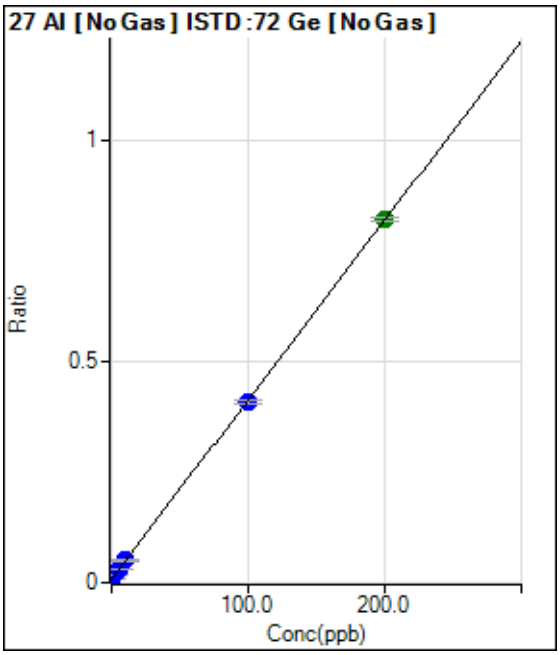
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0012	P	24.2
2	☐	200.000	215.783	54125.29	0.1649	P	2.0
3	☐	500.000	543.529	136314.08	0.4134	P	1.2
4	☐	1000.000	1102.289	275862.58	0.8371	P	0.6
5	☐	10000.000	10074.162	2500995.95	7.6409	A	0.8
6	☐	20000.000	19956.559	4841133.16	15.1352	A	1.3

y = 7.5835E-004 * x + 0.0012
R = 1.0000
DL = 1.175
BEC = 1.62

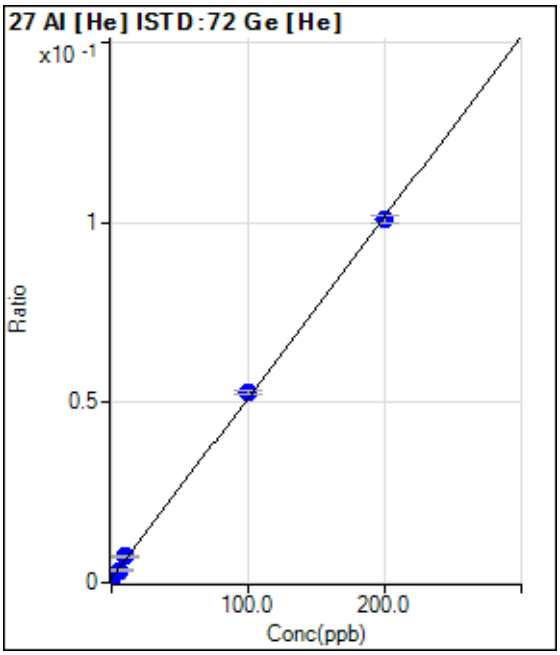
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11194.71	0.0079	P	2.9
2	☐	2.000	2.014	23099.40	0.0160	P	0.3
3	☐	5.000	5.151	41585.78	0.0287	P	2.3
4	☐	10.000	10.441	72244.08	0.0502	P	0.9
5	☐	100.000	99.253	595111.81	0.4100	P	2.0
6	☐	200.000	200.347	1152199.33	0.8196	A	1.2

y = 0.0041 * x + 0.0079
R = 1.0000
DL = 0.1713
BEC = 1.938

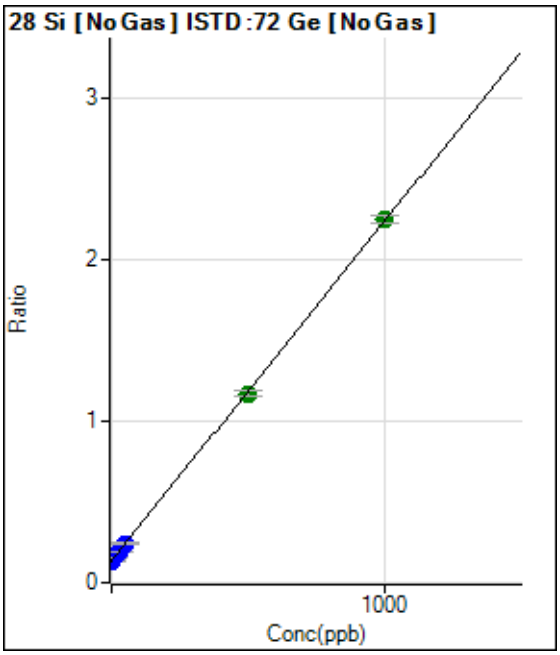
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.68	0.0012	P	11.7
2	☐	2.000	1.964	710.03	0.0022	P	3.6
3	☐	5.000	4.482	1130.07	0.0034	P	5.4
4	☐	10.000	12.094	2390.25	0.0072	P	6.4
5	☐	100.000	102.766	17274.30	0.0528	P	1.8
6	☐	200.000	198.526	32261.14	0.1008	P	2.2

y = 5.0205E-004 * x + 0.0012
R = 0.9998
DL = 0.8231
BEC = 2.344

Weight: <None>
Min Conc: <None>

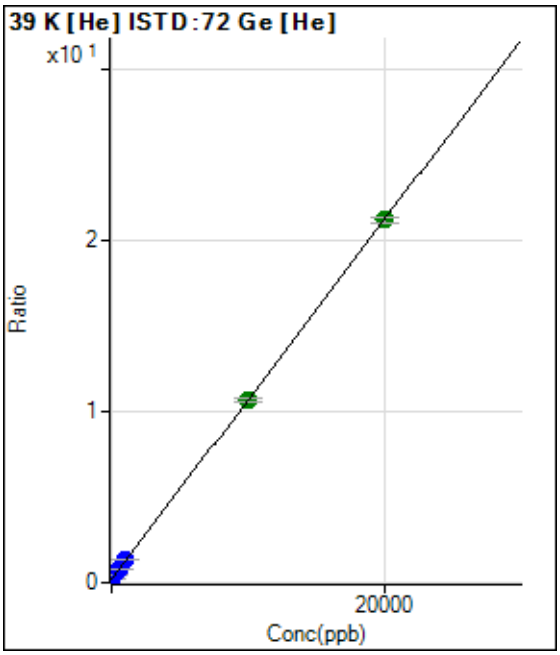


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194313.88	0.1363	P	1.6
2	☐	10.000	9.969	226693.58	0.1572	P	3.8
3	☐	25.000	24.584	272023.01	0.1879	P	2.4
4	☐	50.000	50.645	349342.67	0.2426	P	2.5
5	☐	500.000	492.071	1696192.84	1.1690	A	3.6
6	☐	1000.000	1003.943	3153622.66	2.2432	A	2.2

y = 0.0021 * x + 0.1363
R = 1.0000
DL = 3.049
BEC = 64.96

Weight: <None>
Min Conc: <None>

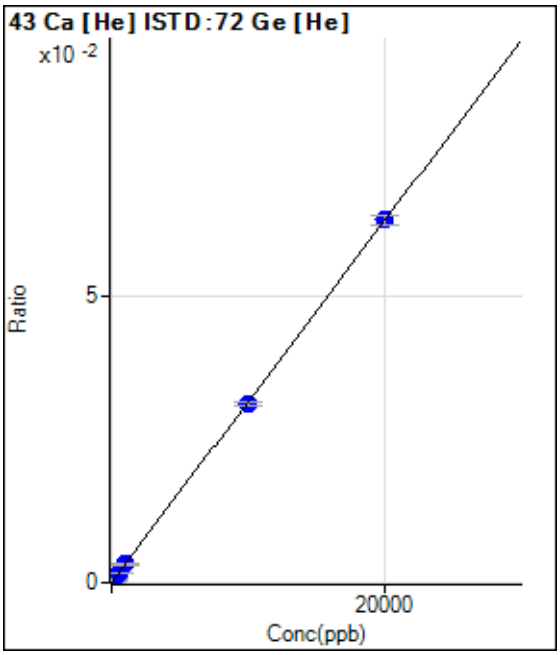
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61152.09	0.1862	P	1.3
2	☐	200.000	208.522	133123.73	0.4055	P	1.5
3	☐	500.000	535.329	247032.25	0.7492	P	0.7
4	☐	1000.000	1071.167	432596.39	1.3127	P	0.2
5	☐	10000.000	10023.278	3511174.32	10.7275	A	2.2
6	☐	20000.000	19983.834	6782562.82	21.2029	A	1.8

y = 0.0011 * x + 0.1862
R = 1.0000
DL = 6.71
BEC = 177

Weight: <None>
Min Conc: <None>

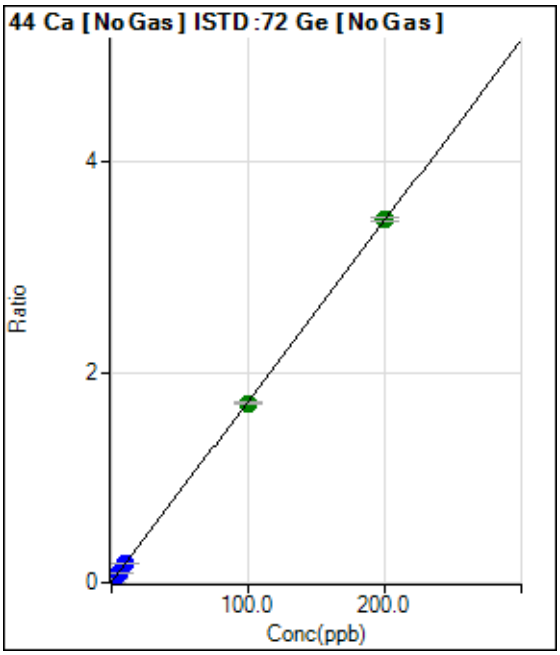


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	43.2
2	☐	200.000	151.817	170.00	0.0005	P	26.2
3	☐	500.000	536.247	570.02	0.0017	P	3.4
4	☐	1000.000	999.924	1050.06	0.0032	P	5.6
5	☐	10000.000	9884.340	10197.28	0.0312	P	2.4
6	☐	20000.000	20057.409	20208.39	0.0632	P	2.3

y = 3.1480E-006 * x + 4.0589E-005
R = 1.0000
DL = 16.73
BEC = 12.89

Weight: <None>
Min Conc: <None>

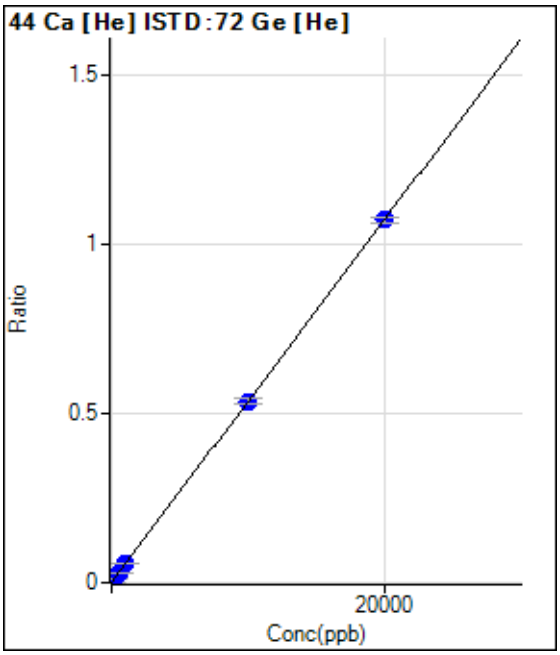
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9406.75	0.0066	P	4.1
2	☐	2.000	2.093	61299.87	0.0425	P	3.7
3	☐	5.000	5.284	140841.46	0.0973	P	3.1
4	☐	10.000	10.607	271685.01	0.1887	P	1.9
5	☐	100.000	99.071	2477962.41	1.7072	A	1.6
6	☐	200.000	200.426	4845513.99	3.4469	A	1.0

y = 0.0172 * x + 0.0066
R = 1.0000
DL = 0.04741
BEC = 0.3845

Weight: <None>
Min Conc: <None>

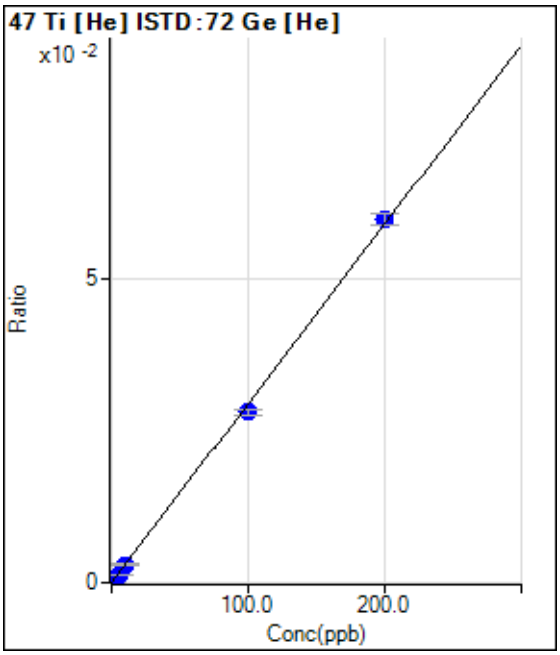


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0008	P	18.6
2	☐	200.000	200.139	3787.27	0.0115	P	6.4
3	☐	500.000	504.797	9193.23	0.0279	P	2.5
4	☐	1000.000	1010.548	18132.21	0.0550	P	1.7
5	☐	10000.000	10004.059	175915.72	0.5375	P	2.6
6	☐	20000.000	19997.322	343392.85	1.0736	P	1.9

y = 5.3646E-005 * x + 8.0167E-004
R = 1.0000
DL = 8.352
BEC = 14.94

Weight: <None>
Min Conc: <None>

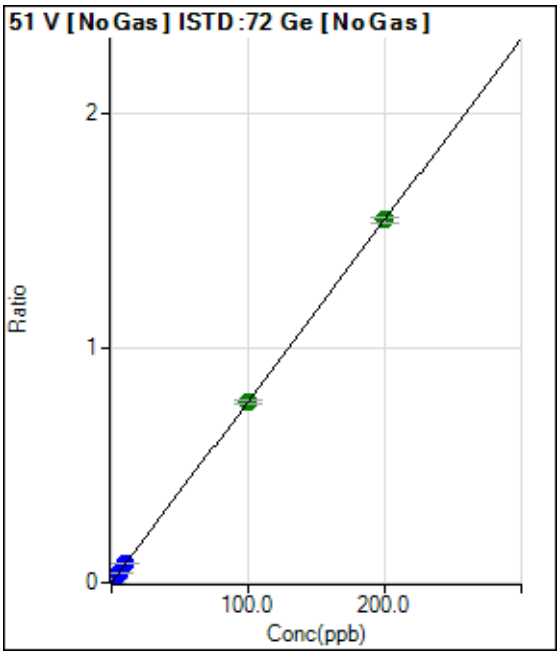
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	2.165	213.34	0.0007	P	27.8
3	☐	5.000	4.036	396.68	0.0012	P	1.2
4	☐	10.000	9.936	970.05	0.0029	P	12.6
5	☐	100.000	94.999	9193.22	0.0281	P	2.9
6	☐	200.000	202.526	19150.20	0.0599	P	3.2

y = 2.9555E-004 * x + 1.0224E-005
R = 0.9996
DL = 0.1797
BEC = 0.03459

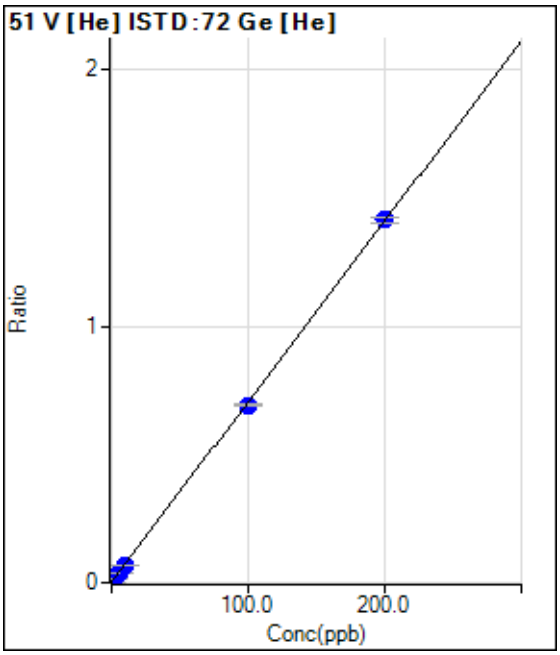
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.05	0.0000	P	1802.0
2	☐	2.000	1.937	21625.09	0.0150	P	6.1
3	☐	5.000	5.147	57578.16	0.0398	P	1.7
4	☐	10.000	10.543	117189.83	0.0814	P	3.2
5	☐	100.000	99.746	1116874.12	0.7696	A	2.8
6	☐	200.000	200.097	2170224.33	1.5439	A	1.7

y = 0.0077 * x + 4.5350E-005
R = 1.0000
DL = 0.3178
BEC = 0.005878

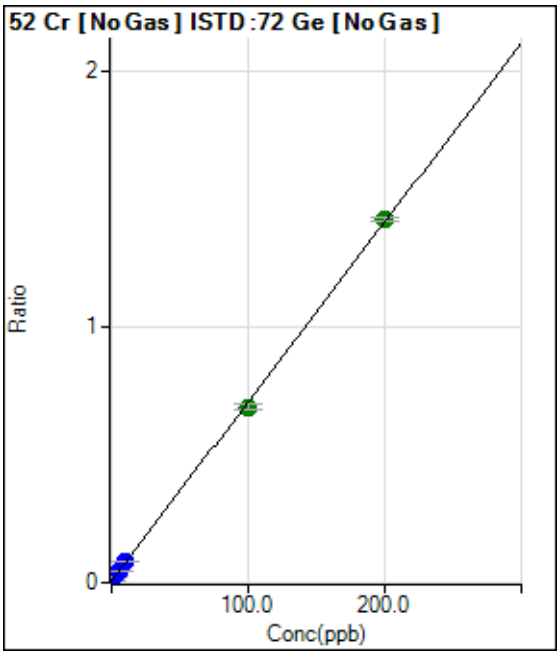
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	671.28	0.0020	P	36.7
2	☐	2.000	1.993	5275.52	0.0161	P	6.4
3	☐	5.000	4.896	12032.37	0.0365	P	2.5
4	☐	10.000	9.642	23018.67	0.0699	P	2.6
5	☐	100.000	98.107	226556.97	0.6922	P	1.1
6	☐	200.000	200.967	452856.97	1.4157	P	1.4

y = 0.0070 * x + 0.0020
R = 0.9999
DL = 0.3204
BEC = 0.2909

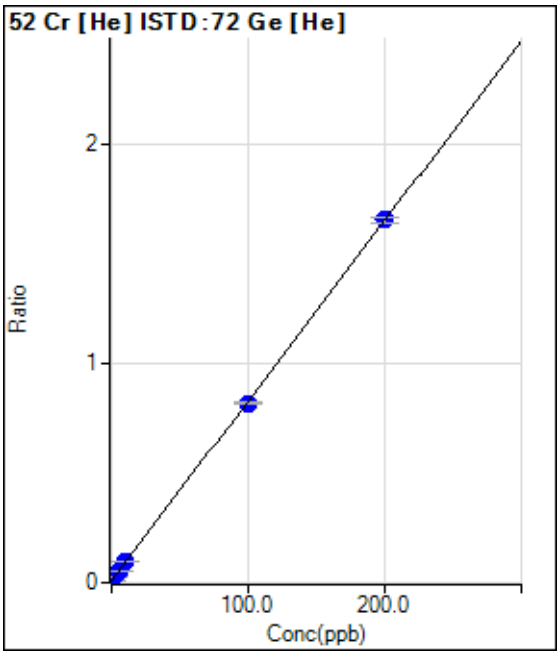
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9560.16	0.0067	P	2.1
2	☐	2.000	1.975	29595.60	0.0205	P	3.4
3	☐	5.000	5.110	61464.45	0.0425	P	3.2
4	☐	10.000	10.422	114690.69	0.0796	P	1.5
5	☐	100.000	97.176	996656.26	0.6867	A	2.5
6	☐	200.000	201.389	1990689.09	1.4160	A	1.1

y = 0.0070 * x + 0.0067
R = 0.9999
DL = 0.06102
BEC = 0.9584

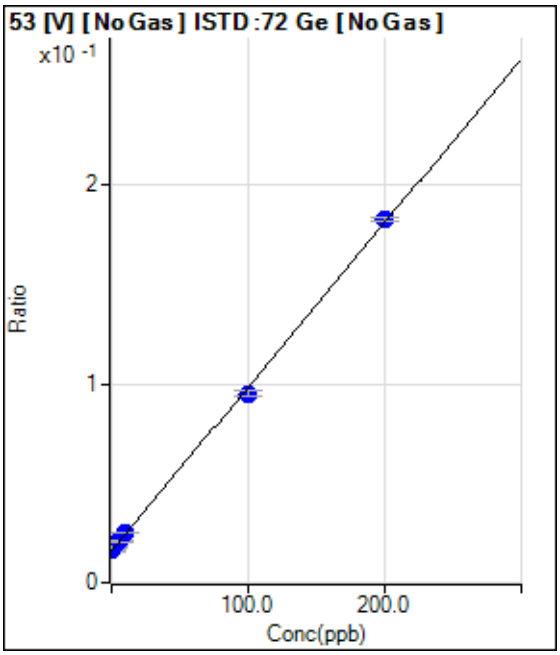
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3023.72	0.0092	P	3.0
2	☐	2.000	2.077	8619.52	0.0263	P	2.9
3	☐	5.000	5.060	16733.79	0.0507	P	0.9
4	☐	10.000	10.206	30641.31	0.0930	P	1.1
5	☐	100.000	98.772	268419.91	0.8201	P	1.5
6	☐	200.000	200.601	529715.61	1.6561	P	1.3

y = 0.0082 * x + 0.0092
R = 1.0000
DL = 0.1023
BEC = 1.121

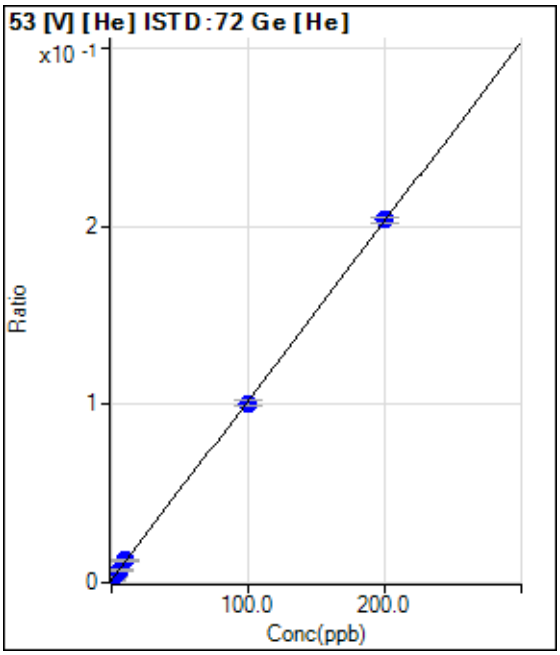
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22782.57	0.0160	P	2.2
2	☐	2.000	2.761	26322.24	0.0183	P	4.8
3	☐	5.000	6.124	30444.17	0.0210	P	4.0
4	☐	10.000	11.496	36679.48	0.0255	P	0.6
5	☐	100.000	96.096	138269.28	0.0953	P	2.5
6	☐	200.000	201.841	256577.26	0.1825	P	1.0

y = 8.2504E-004 * x + 0.0160
R = 0.9997
DL = 1.298
BEC = 19.37

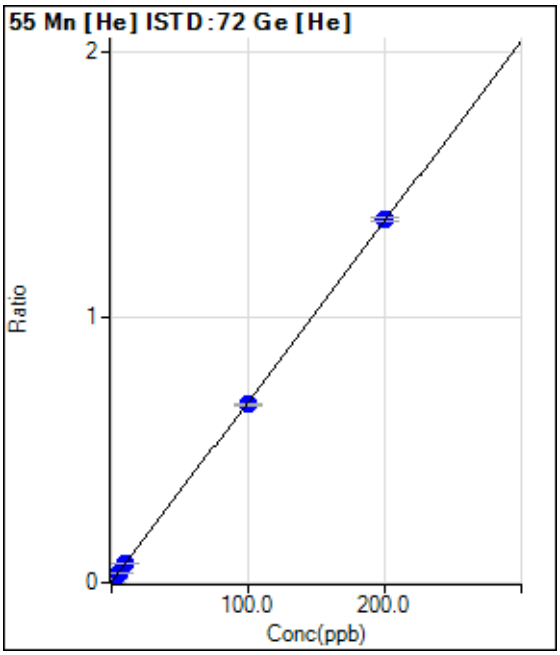
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	520.02	0.0016	P	12.9
2	☐	2.000	2.139	1226.74	0.0037	P	5.7
3	☐	5.000	5.212	2253.56	0.0068	P	6.7
4	☐	10.000	10.955	4160.71	0.0126	P	3.3
5	☐	100.000	98.366	32959.92	0.1007	P	2.9
6	☐	200.000	200.762	65215.28	0.2039	P	1.8

y = 0.0010 * x + 0.0016
R = 0.9999
DL = 0.6097
BEC = 1.57

Weight: <None>
Min Conc: <None>

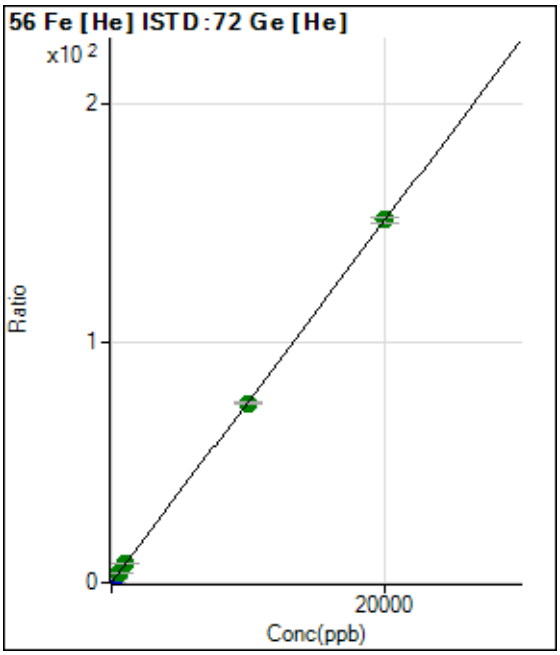


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	720.03	0.0022	P	3.5
2	☐	2.000	1.965	5107.70	0.0156	P	3.1
3	☐	5.000	5.101	12158.92	0.0369	P	3.5
4	☐	10.000	10.139	23437.04	0.0711	P	1.9
5	☐	100.000	98.414	219758.55	0.6714	P	0.7
6	☐	200.000	200.784	437429.32	1.3675	P	0.9

y = 0.0068 * x + 0.0022
R = 1.0000
DL = 0.03351
BEC = 0.3223

Weight: <None>
Min Conc: <None>

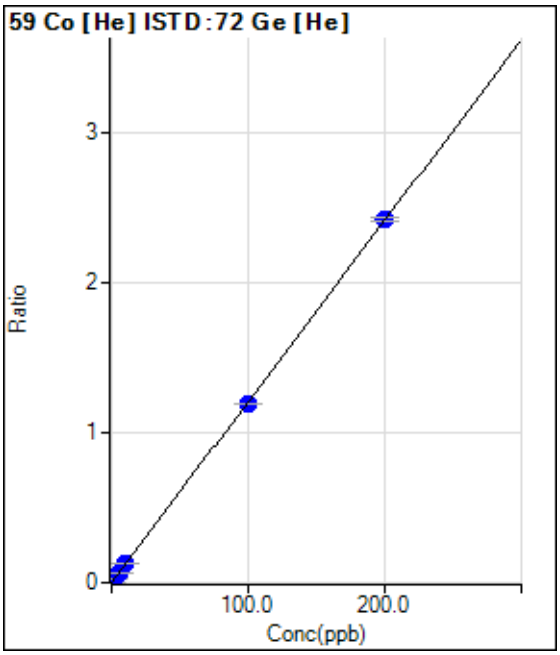
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9476.75	0.0289	P	2.0
2	☐	200.000	210.545	530949.27	1.6173	P	0.9
3	☐	500.000	525.187	1315947.30	3.9910	A	2.0
4	☐	1000.000	1046.859	2611824.02	7.9267	A	1.6
5	☐	10000.000	9892.648	24437730.47	74.6623	A	1.3
6	☐	20000.000	20050.598	48395494.28	151.2973	A	1.3

y = 0.0075 * x + 0.0289
R = 1.0000
DL = 0.2265
BEC = 3.824

Weight: <None>
Min Conc: <None>

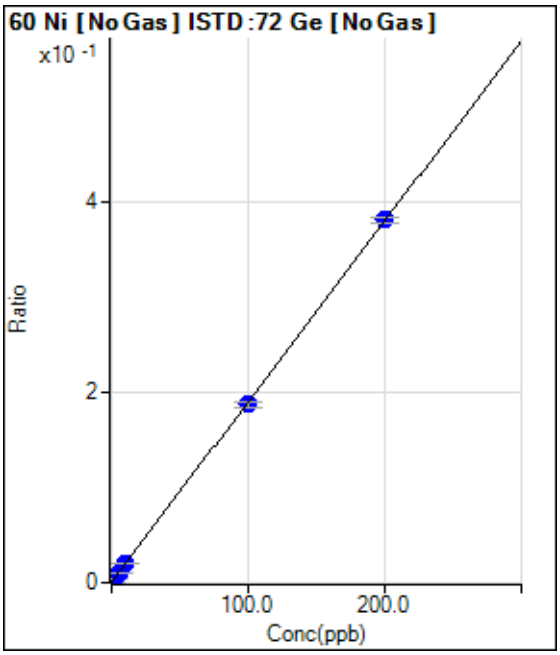


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	66.1
2	☐	2.000	1.996	7909.13	0.0241	P	3.3
3	☐	5.000	5.061	20108.43	0.0610	P	3.6
4	☐	10.000	10.162	40323.13	0.1224	P	1.0
5	☐	100.000	98.866	389495.14	1.1899	P	0.6
6	☐	200.000	200.558	772074.91	2.4138	P	1.1

y = 0.0120 * x + 7.1260E-005
R = 1.0000
DL = 0.01174
BEC = 0.005921

Weight: <None>
Min Conc: <None>

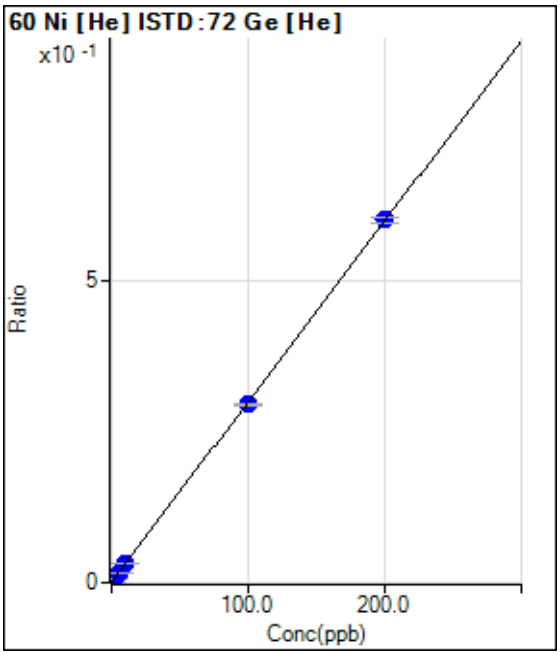
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1406.76	0.0010	P	2.1
2	☐	2.000	1.931	6691.77	0.0046	P	2.2
3	☐	5.000	5.067	15305.52	0.0106	P	0.6
4	☐	10.000	10.148	29057.88	0.0202	P	2.3
5	☐	100.000	98.228	271000.74	0.1867	P	2.8
6	☐	200.000	200.878	535389.64	0.3809	P	1.3

y = 0.0019 * x + 9.8656E-004
R = 0.9999
DL = 0.0322
BEC = 0.5217

Weight: <None>
Min Conc: <None>

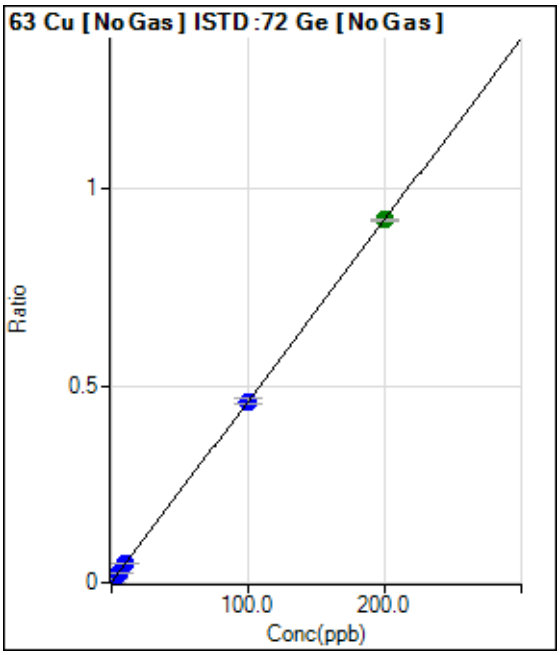


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.68	0.0009	P	20.2
2	☐	2.000	2.037	2310.25	0.0070	P	4.8
3	☐	5.000	5.143	5387.82	0.0163	P	4.4
4	☐	10.000	10.201	10377.49	0.0315	P	2.4
5	☐	100.000	98.424	96808.95	0.2958	P	1.7
6	☐	200.000	200.774	192674.11	0.6024	P	1.4

y = 0.0030 * x + 9.3429E-004
R = 1.0000
DL = 0.1888
BEC = 0.3119

Weight: <None>
Min Conc: <None>

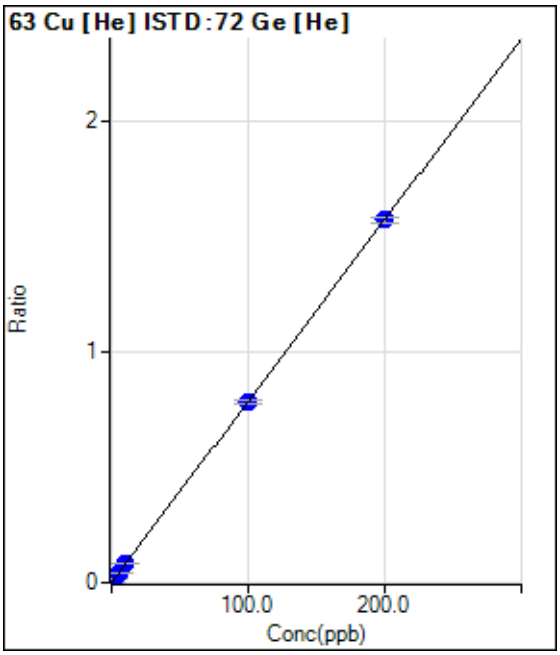
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	970.05	0.0007	P	10.5
2	☐	2.000	2.131	15135.32	0.0105	P	1.8
3	☐	5.000	5.169	35456.35	0.0245	P	1.6
4	☐	10.000	10.522	70770.43	0.0491	P	2.8
5	☐	100.000	99.937	669012.15	0.4610	P	2.6
6	☐	200.000	200.000	1295931.10	0.9219	A	0.5

y = 0.0046 * x + 6.8103E-004
R = 1.0000
DL = 0.04677
BEC = 0.1479

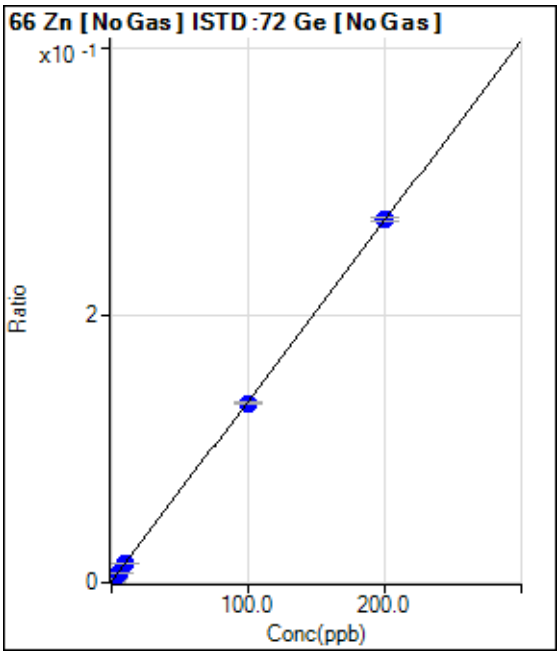
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0006	P	22.2
2	☐	2.000	2.050	5494.55	0.0167	P	3.4
3	☐	5.000	5.116	13463.50	0.0408	P	4.1
4	☐	10.000	10.333	26970.48	0.0818	P	2.6
5	☐	100.000	99.784	256852.02	0.7847	P	1.8
6	☐	200.000	200.088	503102.67	1.5729	P	1.3

y = 0.0079 * x + 6.2862E-004
R = 1.0000
DL = 0.05326
BEC = 0.08

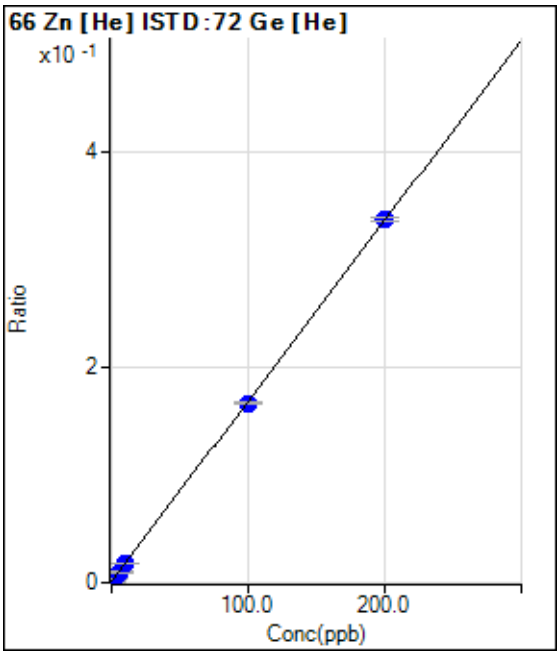
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1026.73	0.0007	P	3.2
2	☐	2.000	2.045	5024.35	0.0035	P	3.8
3	☐	5.000	5.053	10931.23	0.0076	P	4.6
4	☐	10.000	10.253	21003.24	0.0146	P	2.7
5	☐	100.000	99.025	195433.94	0.1346	P	1.5
6	☐	200.000	200.473	382125.80	0.2718	P	0.9

y = 0.0014 * x + 7.1999E-004
R = 1.0000
DL = 0.05172
BEC = 0.5324

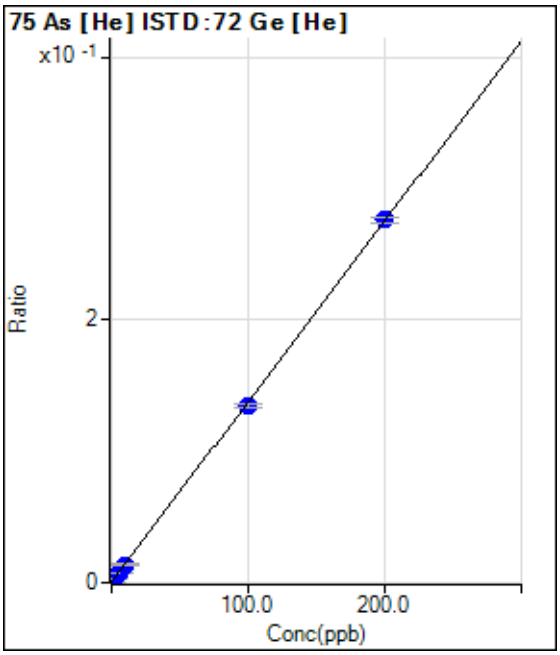
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.68	0.0010	P	21.0
2	☐	2.000	1.963	1406.77	0.0043	P	3.7
3	☐	5.000	5.216	3210.45	0.0097	P	6.1
4	☐	10.000	10.251	5988.09	0.0182	P	3.4
5	☐	100.000	98.929	54586.25	0.1668	P	1.5
6	☐	200.000	200.518	107798.70	0.3370	P	1.0

y = 0.0017 * x + 9.9533E-004
R = 1.0000
DL = 0.3737
BEC = 0.594

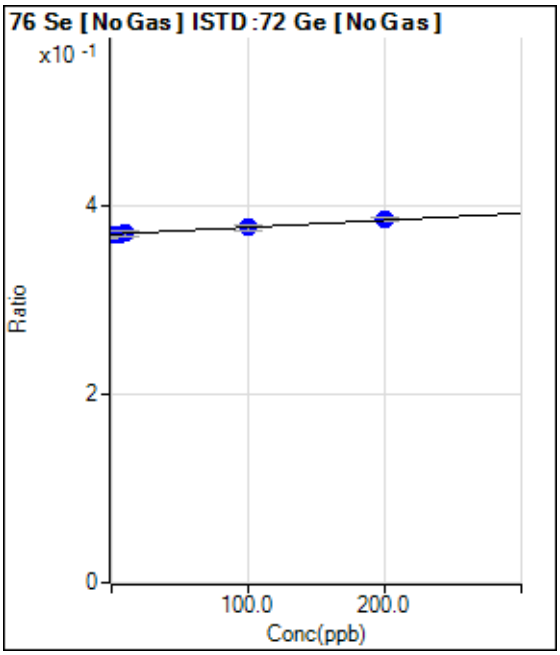
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0003	P	34.3
2	☐	2.000	1.802	902.26	0.0027	P	6.6
3	☐	5.000	5.275	2478.02	0.0075	P	1.7
4	☐	10.000	9.910	4575.25	0.0139	P	5.4
5	☐	100.000	98.057	44142.94	0.1349	P	1.4
6	☐	200.000	200.971	88326.95	0.2761	P	1.3

y = 0.0014 * x + 2.7421E-004
R = 0.9999
DL = 0.2055
BEC = 0.1998

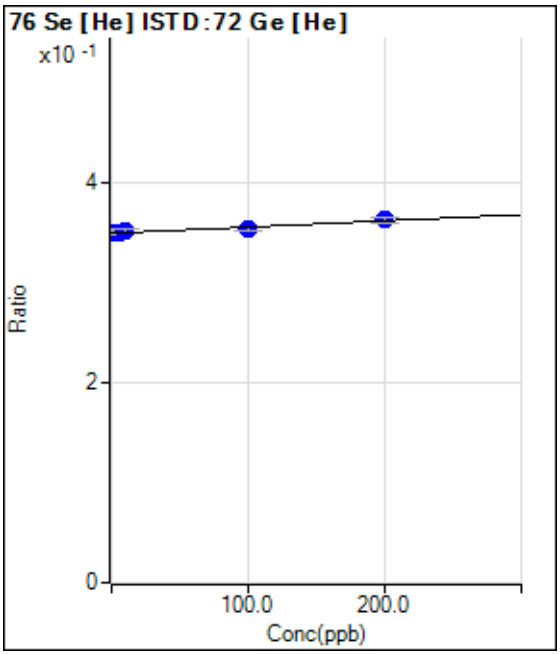
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	526267.04	0.3692	P	1.6
2	☐	2.000	-0.809	532290.08	0.3691	P	2.3
3	☐	5.000	-0.959	534387.05	0.3691	P	2.0
4	☐	10.000	8.259	532594.13	0.3698	P	1.4
5	☐	100.000	92.702	545864.77	0.3761	P	2.0
6	☐	200.000	203.913	540312.02	0.3844	P	1.0

y = 7.4380E-005 * x + 0.3692
R = 0.9990
DL = 232.9
BEC = 4964

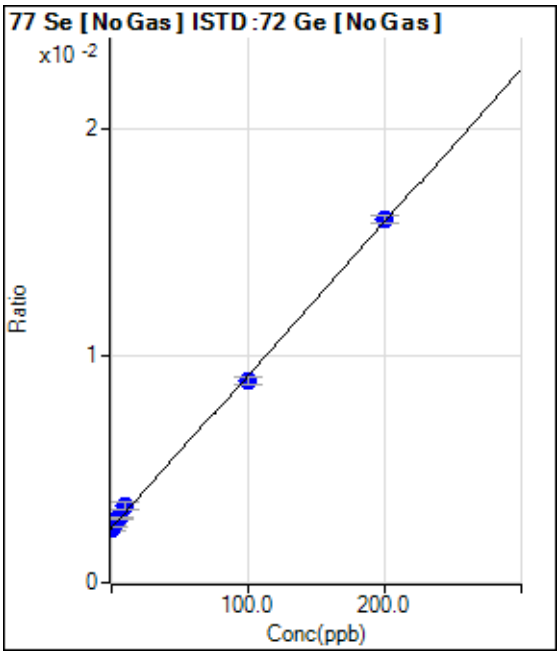
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114738.24	0.3493	P	0.3
2	☐	2.000	21.442	115120.83	0.3507	P	0.4
3	☐	5.000	12.074	115433.82	0.3501	P	1.3
4	☐	10.000	35.472	115841.26	0.3516	P	1.0
5	☐	100.000	69.977	115770.09	0.3537	P	1.2
6	☐	200.000	213.367	116005.52	0.3627	P	1.5

y = 6.2566E-005 * x + 0.3493
R = 0.9704
DL = 44.62
BEC = 5583

Weight: <None>
Min Conc: <None>

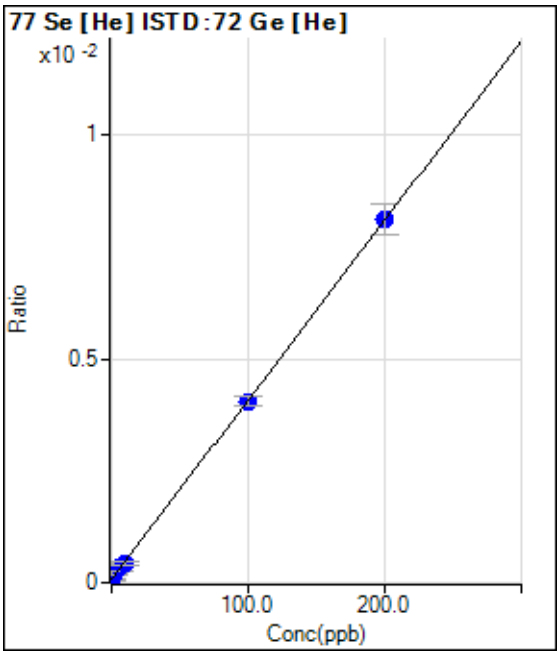


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3433.84	0.0024	P	8.5
2	☐	2.000	2.579	3723.93	0.0026	P	7.0
3	☐	5.000	6.432	4117.36	0.0028	P	3.2
4	☐	10.000	14.573	4890.95	0.0034	P	8.0
5	☐	100.000	96.740	12979.80	0.0089	P	3.9
6	☐	200.000	201.360	22485.65	0.0160	P	2.0

y = 6.7470E-005 * x + 0.0024
R = 0.9995
DL = 9.164
BEC = 35.73

Weight: <None>
Min Conc: <None>

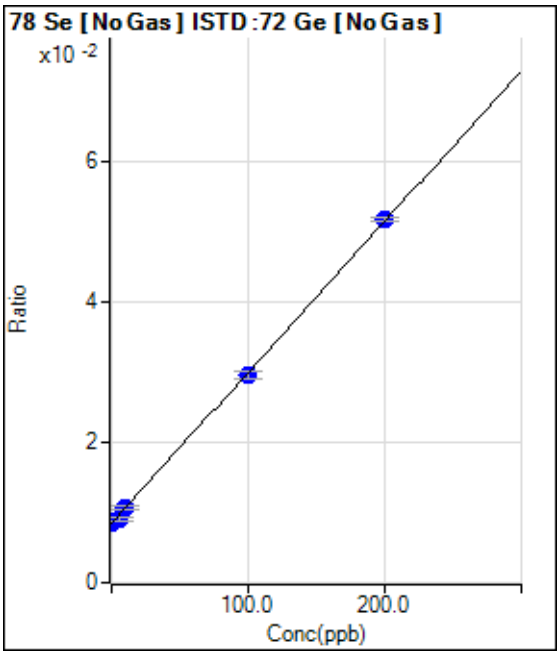
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	89.1
2	☐	2.000	2.785	60.00	0.0002	P	28.1
3	☐	5.000	6.800	113.34	0.0003	P	39.6
4	☐	10.000	9.072	143.33	0.0004	P	14.1
5	☐	100.000	99.257	1326.76	0.0041	P	5.8
6	☐	200.000	200.365	2593.62	0.0081	P	8.6

y = 4.0130E-005 * x + 7.0751E-005
R = 0.9999
DL = 4.713
BEC = 1.763

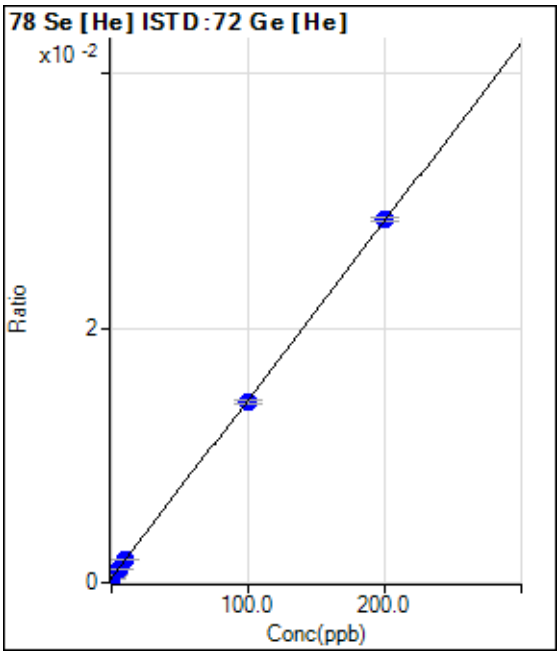
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12125.63	0.0085	P	1.7
2	☐	2.000	1.553	12742.89	0.0088	P	4.8
3	☐	5.000	2.313	13026.51	0.0090	P	6.4
4	☐	10.000	10.070	15369.02	0.0107	P	3.3
5	☐	100.000	98.099	42945.32	0.0296	P	3.6
6	☐	200.000	201.019	72705.73	0.0517	P	1.1

y = 2.1496E-004 * x + 0.0085
R = 0.9999
DL = 2.055
BEC = 39.58

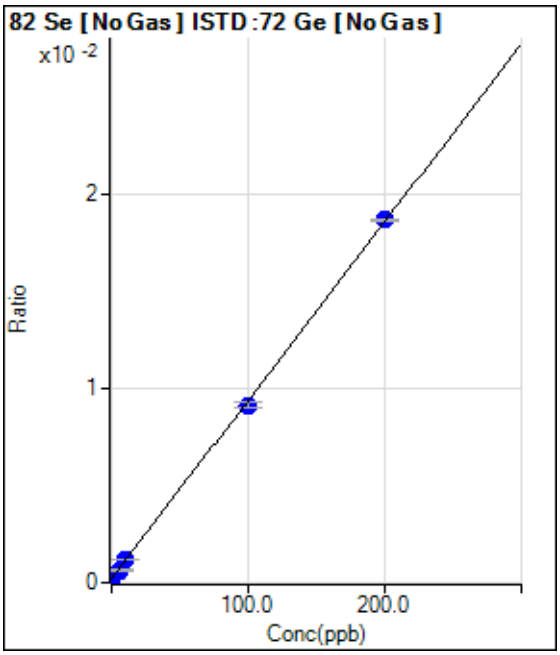
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0004	P	17.1
2	☐	2.000	2.305	226.00	0.0007	P	12.2
3	☐	5.000	5.212	361.34	0.0011	P	2.6
4	☐	10.000	10.295	596.02	0.0018	P	3.6
5	☐	100.000	98.506	4637.47	0.0142	P	1.7
6	☐	200.000	200.724	9113.76	0.0285	P	1.2

y = 1.4013E-004 * x + 3.6552E-004
R = 1.0000
DL = 1.34
BEC = 2.608

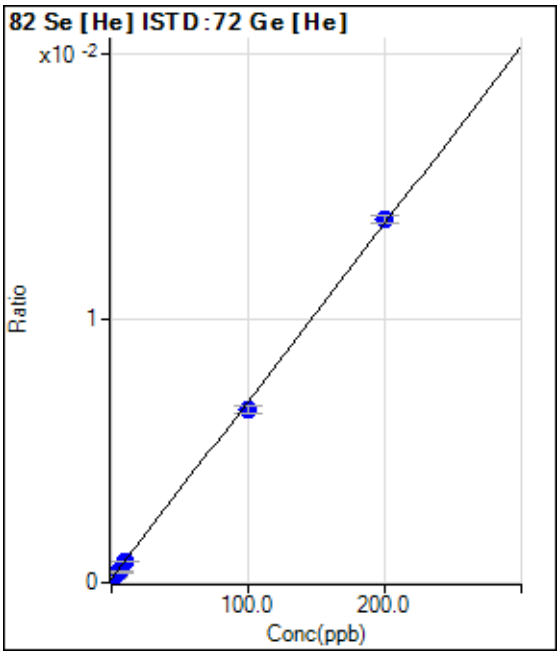
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296.68	0.0002	P	7.4
2	☐	2.000	1.834	543.35	0.0004	P	8.3
3	☐	5.000	4.714	926.72	0.0006	P	6.0
4	☐	10.000	10.422	1676.81	0.0012	P	0.8
5	☐	100.000	97.468	13276.81	0.0092	P	3.9
6	☐	200.000	201.254	26249.24	0.0187	P	0.4

y = 9.1748E-005 * x + 2.0799E-004
R = 0.9999
DL = 0.5016
BEC = 2.267

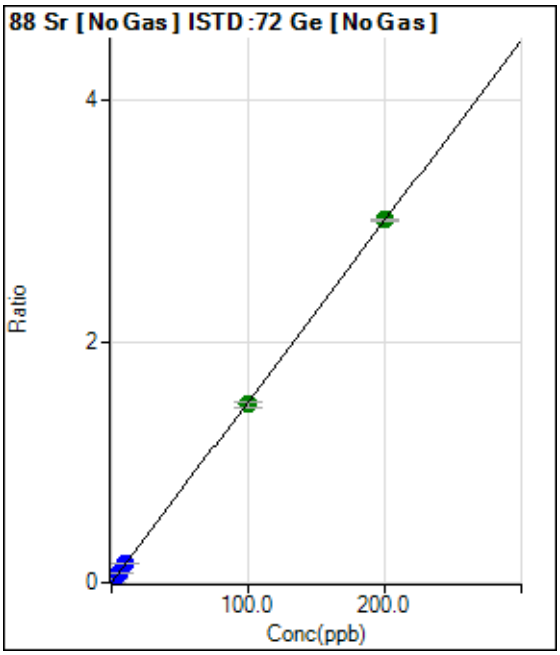
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0002	P	0.7
2	☐	2.000	1.362	80.00	0.0002	P	25.1
3	☐	5.000	3.754	133.33	0.0004	P	21.7
4	☐	10.000	9.637	263.34	0.0008	P	7.0
5	☐	100.000	95.686	2153.55	0.0066	P	4.3
6	☐	200.000	202.213	4394.14	0.0137	P	2.2

y = 6.7174E-005 * x + 1.5223E-004
R = 0.9997
DL = 0.04795
BEC = 2.266

Weight: <None>
Min Conc: <None>

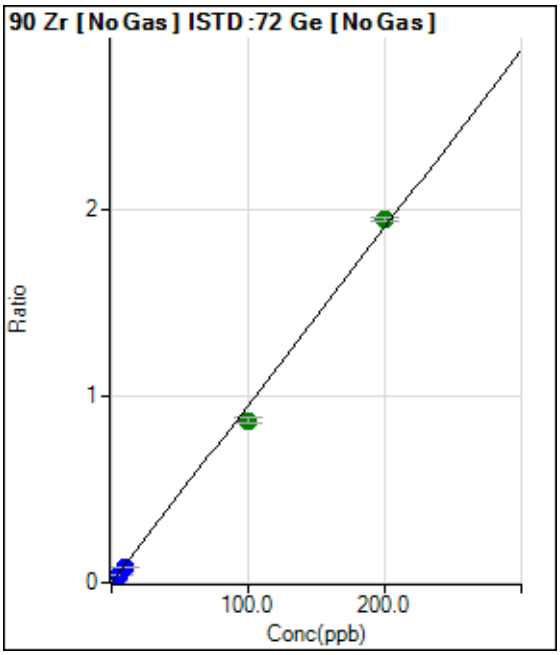


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503.35	0.0004	P	13.1
2	☐	2.000	2.030	44470.81	0.0308	P	0.5
3	☐	5.000	5.266	114910.06	0.0794	P	3.5
4	☐	10.000	10.458	226559.17	0.1573	P	1.0
5	☐	100.000	98.754	2151301.53	1.4825	A	3.2
6	☐	200.000	200.593	4232781.60	3.0110	A	0.2

y = 0.0150 * x + 3.5342E-004
R = 1.0000
DL = 0.009265
BEC = 0.02355

Weight: <None>
Min Conc: <None>

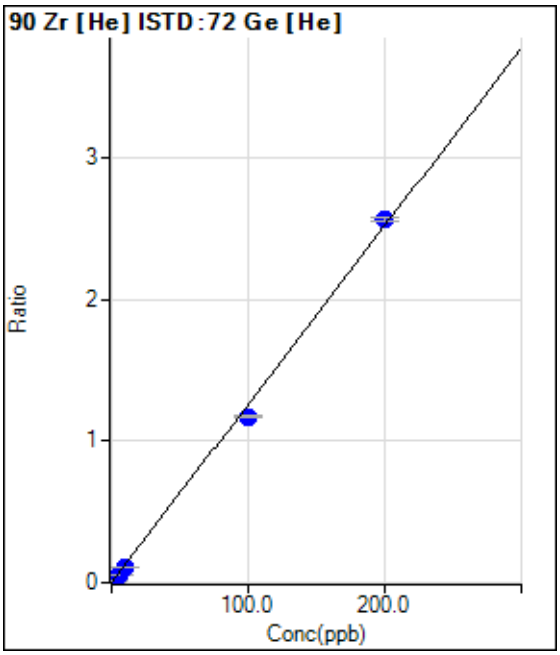
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.70	0.0005	P	13.5
2	☐	2.000	1.567	22298.88	0.0155	P	4.2
3	☐	5.000	4.042	56556.31	0.0391	P	2.0
4	☐	10.000	8.598	118827.64	0.0825	P	1.1
5	☐	100.000	91.359	1264983.21	0.8717	A	2.9
6	☐	200.000	204.419	2741131.42	1.9498	A	1.2

y = 0.0095 * x + 5.2306E-004
R = 0.9988
DL = 0.02226
BEC = 0.05485

Weight: <None>
Min Conc: <None>

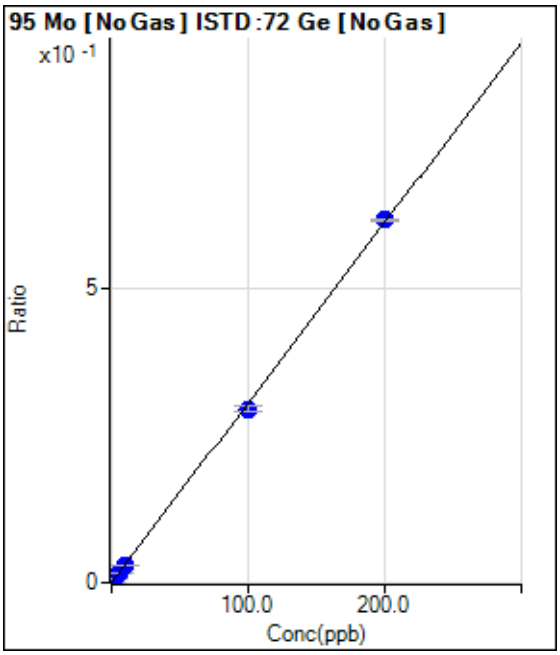


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.34	0.0012	P	4.5
2	☐	2.000	1.578	6921.93	0.0211	P	6.8
3	☐	5.000	4.115	17481.75	0.0530	P	1.9
4	☐	10.000	8.643	36246.06	0.1100	P	0.6
5	☐	100.000	93.216	384375.03	1.1743	P	1.1
6	☐	200.000	203.486	819505.75	2.5621	P	1.1

y = 0.0126 * x + 0.0012
R = 0.9992
DL = 0.01313
BEC = 0.09756

Weight: <None>
Min Conc: <None>

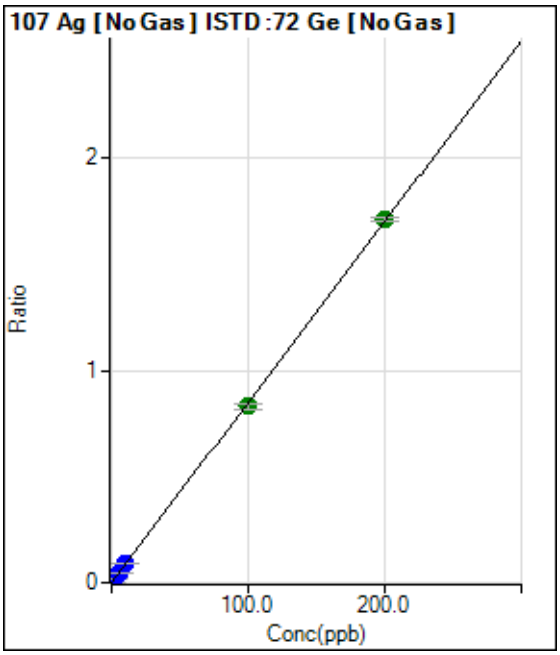
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.33	0.0001	P	15.8
2	☐	2.000	1.944	8696.34	0.0060	P	0.9
3	☐	5.000	4.872	21654.51	0.0150	P	2.7
4	☐	10.000	10.010	44113.43	0.0306	P	0.4
5	☐	100.000	96.627	427788.73	0.2948	P	2.9
6	☐	200.000	201.690	864798.09	0.6152	P	0.6

y = 0.0030 * x + 1.0052E-004
R = 0.9998
DL = 0.01562
BEC = 0.03296

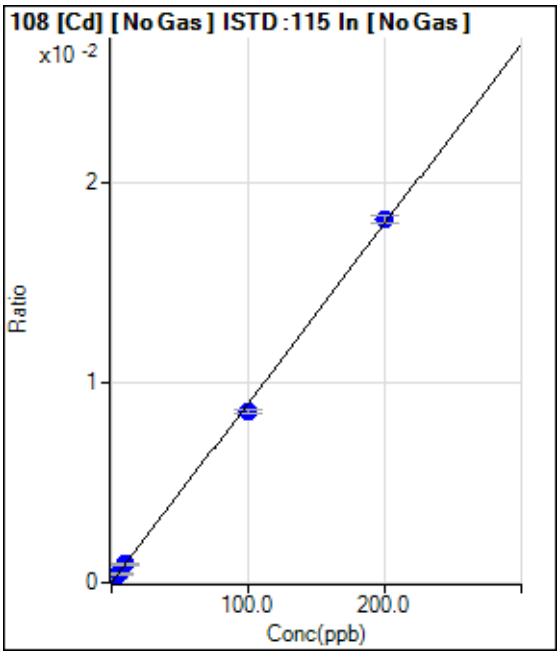
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0002	P	10.2
2	☐	2.000	1.975	24456.31	0.0170	P	1.5
3	☐	5.000	5.098	63003.16	0.0435	P	2.5
4	☐	10.000	10.273	126072.94	0.0875	P	1.5
5	☐	100.000	97.913	1208778.50	0.8329	A	3.3
6	☐	200.000	201.028	2403920.43	1.7100	A	0.9

y = 0.0085 * x + 1.5676E-004
R = 0.9999
DL = 0.005643
BEC = 0.01843

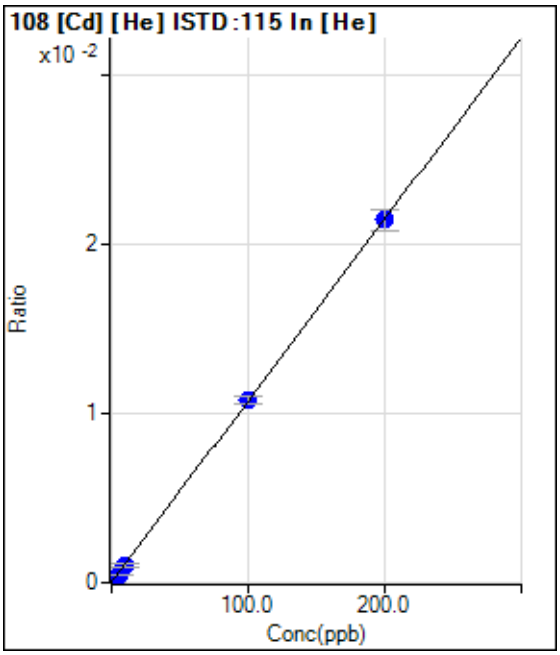
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	2.238	430.02	0.0002	P	8.7
3	☐	5.000	5.263	1026.73	0.0005	P	20.7
4	☐	10.000	10.287	1996.85	0.0009	P	6.8
5	☐	100.000	95.647	18656.77	0.0086	P	2.3
6	☐	200.000	202.153	38058.32	0.0181	P	2.2

y = 8.9736E-005 * x + 0.0000E+000
R = 0.9997
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

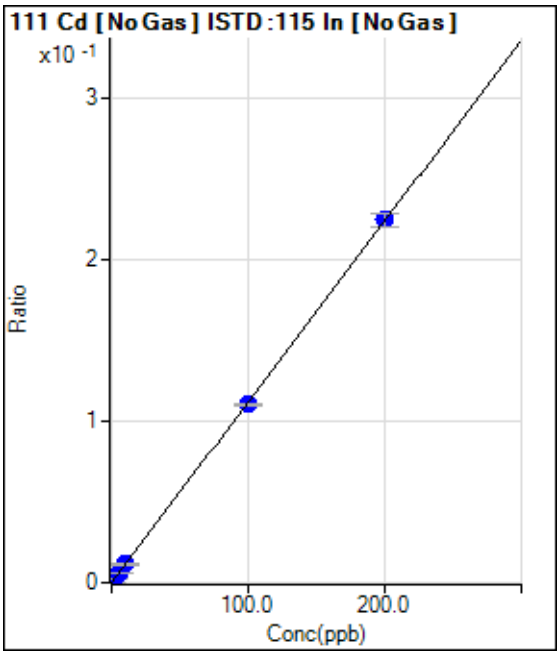


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.9
2	☐	2.000	1.834	140.00	0.0002	P	40.0
3	☐	5.000	4.373	316.68	0.0005	P	7.7
4	☐	10.000	9.672	676.70	0.0011	P	19.7
5	☐	100.000	100.766	6878.56	0.0108	P	4.1
6	☐	200.000	199.651	13280.20	0.0214	P	5.5

y = 1.0722E-004 * x + 2.0897E-005
R = 1.0000
DL = 0.6718
BEC = 0.1949

Weight: <None>
Min Conc: <None>

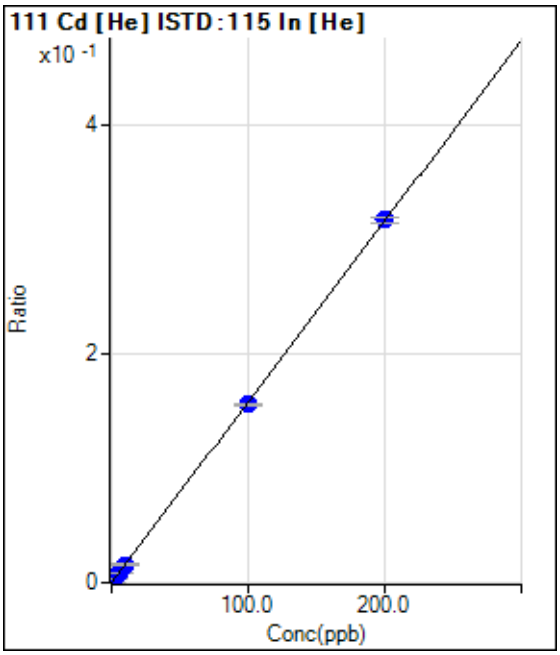
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.127	5096.56	0.0024	P	7.4
3	☐	5.000	4.995	12161.83	0.0056	P	5.3
4	☐	10.000	10.142	24547.92	0.0113	P	2.5
5	☐	100.000	98.484	239357.45	0.1101	P	2.0
6	☐	200.000	200.750	470731.23	0.2245	P	3.6

y = 0.0011 * x + 3.1021E-006
R = 1.0000
DL = 0.007209
BEC = 0.002774

Weight: <None>
Min Conc: <None>

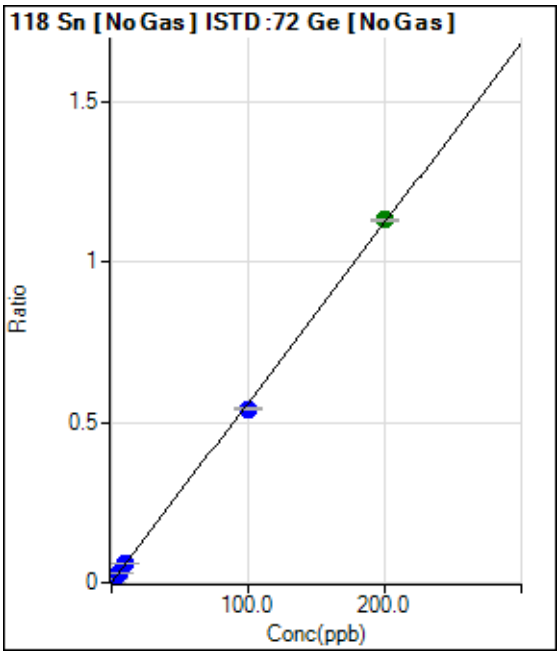


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.31	0.0000	P	114.9
2	☐	2.000	2.041	2093.74	0.0032	P	7.1
3	☐	5.000	5.048	5174.10	0.0080	P	0.8
4	☐	10.000	10.051	10193.04	0.0159	P	1.0
5	☐	100.000	98.485	98973.95	0.1557	P	1.4
6	☐	200.000	200.753	196749.17	0.3174	P	1.6

y = 0.0016 * x + 2.2422E-005
R = 1.0000
DL = 0.04888
BEC = 0.01418

Weight: <None>
Min Conc: <None>

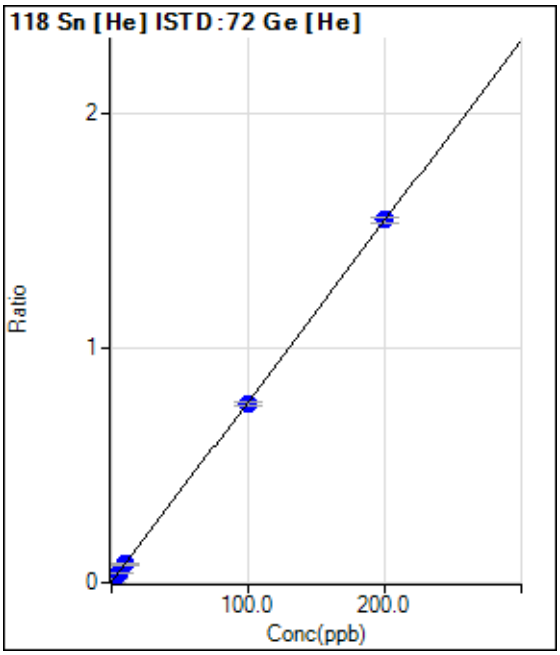
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0010	P	3.1
2	☐	2.000	2.022	17819.01	0.0124	P	0.4
3	☐	5.000	4.986	41947.17	0.0290	P	4.1
4	☐	10.000	10.165	83598.09	0.0580	P	1.6
5	☐	100.000	96.541	787883.95	0.5428	P	1.3
6	☐	200.000	201.722	1592834.19	1.1331	A	0.6

y = 0.0056 * x + 0.0010
R = 0.9998
DL = 0.0168
BEC = 0.1791

Weight: <None>
Min Conc: <None>

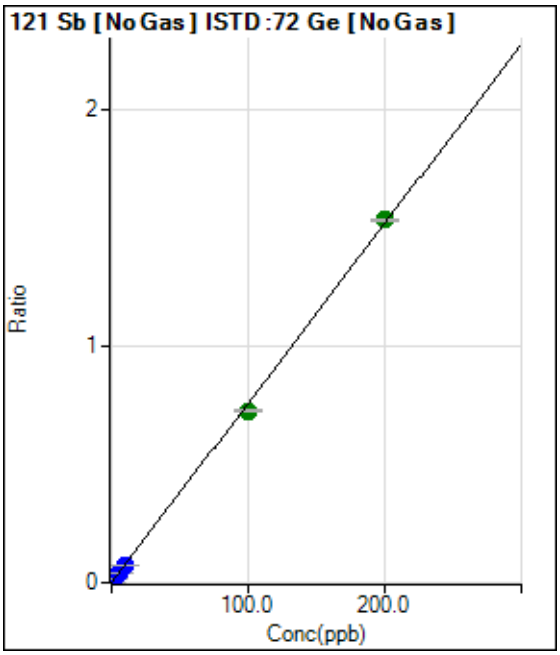


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	460.01	0.0014	P	22.0
2	☐	2.000	1.944	5384.56	0.0164	P	7.3
3	☐	5.000	4.948	13046.62	0.0396	P	2.2
4	☐	10.000	9.991	25852.49	0.0785	P	1.3
5	☐	100.000	98.880	250108.00	0.7641	P	1.4
6	☐	200.000	200.562	495276.02	1.5484	P	1.3

y = 0.0077 * x + 0.0014
R = 1.0000
DL = 0.1199
BEC = 0.1814

Weight: <None>
Min Conc: <None>

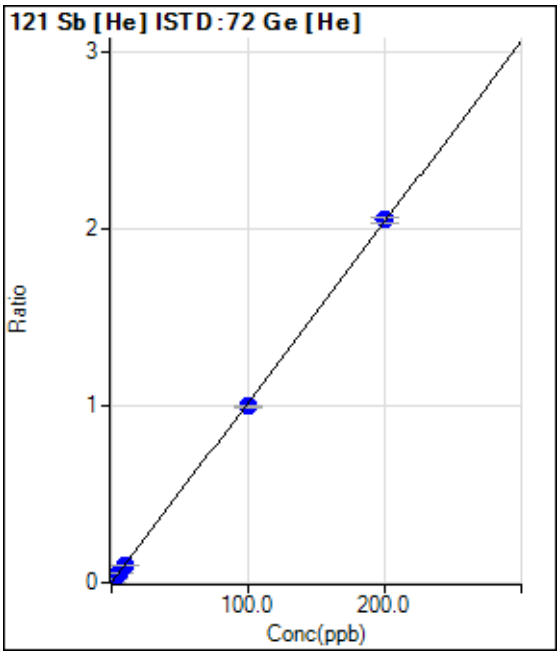
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	376.68	0.0003	P	40.2
2	☐	2.000	2.015	22439.39	0.0156	P	2.4
3	☐	5.000	4.937	54643.95	0.0377	P	1.3
4	☐	10.000	10.050	110257.01	0.0766	P	1.8
5	☐	100.000	95.632	1054473.58	0.7263	A	1.4
6	☐	200.000	202.183	2158027.21	1.5351	A	0.8

y = 0.0076 * x + 2.6305E-004
R = 0.9997
DL = 0.04179
BEC = 0.03465

Weight: <None>
Min Conc: <None>

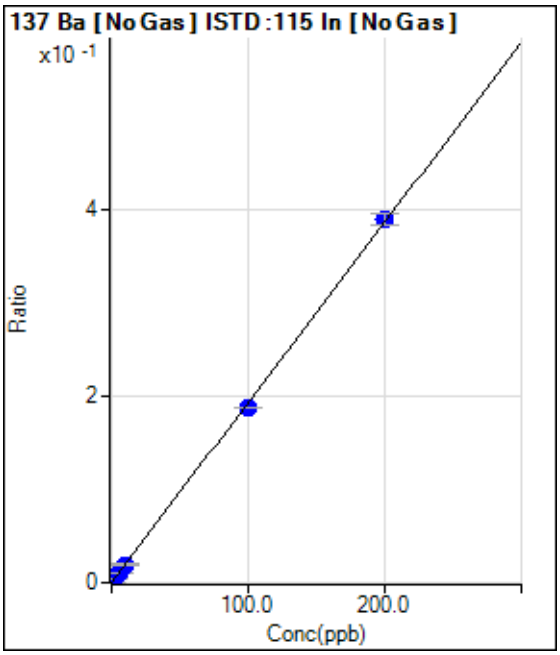


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0006	P	2.6
2	☐	2.000	2.078	7128.73	0.0217	P	3.2
3	☐	5.000	4.926	16720.96	0.0507	P	7.2
4	☐	10.000	10.008	33760.20	0.1024	P	0.8
5	☐	100.000	97.921	326457.81	0.9974	P	1.1
6	☐	200.000	201.040	654804.65	2.0472	P	1.6

y = 0.0102 * x + 5.5814E-004
R = 0.9999
DL = 0.00426
BEC = 0.05483

Weight: <None>
Min Conc: <None>

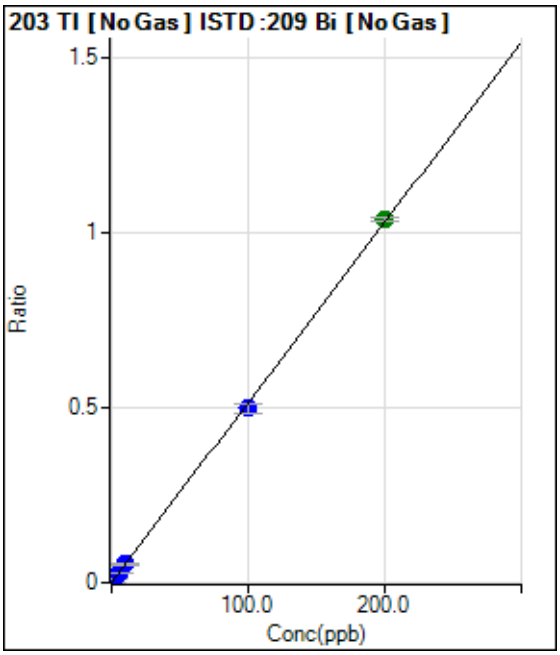
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.00	0.0001	P	16.3
2	☐	2.000	2.072	8696.38	0.0041	P	2.1
3	☐	5.000	5.006	21154.15	0.0097	P	2.5
4	☐	10.000	10.098	42269.02	0.0195	P	3.9
5	☐	100.000	97.009	406560.00	0.1870	P	0.6
6	☐	200.000	201.490	814479.26	0.3883	P	3.2

y = 0.0019 * x + 7.4593E-005
R = 0.9998
DL = 0.01891
BEC = 0.03871

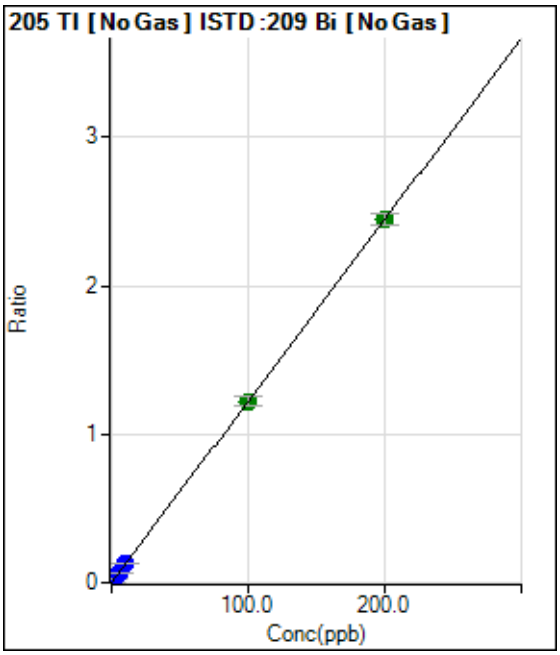
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	22.8
2	☐	2.000	1.827	20099.79	0.0094	P	4.8
3	☐	5.000	4.928	55443.15	0.0254	P	3.3
4	☐	10.000	10.190	111115.10	0.0525	P	2.9
5	☐	100.000	96.992	1059281.75	0.4993	P	5.9
6	☐	200.000	201.498	2150967.00	1.0373	A	1.2

y = 0.0051 * x + 3.1655E-005
R = 0.9998
DL = 0.004213
BEC = 0.006149

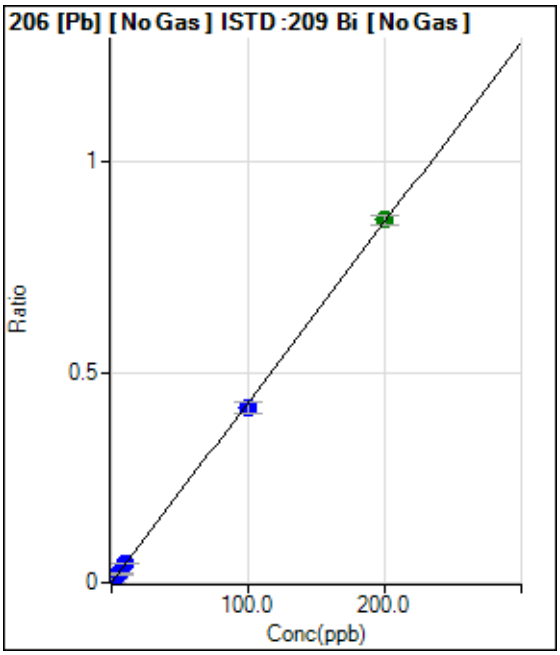
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0001	P	33.8
2	☐	2.000	1.833	47831.97	0.0225	P	6.9
3	☐	5.000	4.957	132376.82	0.0607	P	3.9
4	☐	10.000	10.262	265635.66	0.1255	P	1.7
5	☐	100.000	99.982	2591868.40	1.2218	A	5.9
6	☐	200.000	199.999	5065549.19	2.4439	A	3.1

y = 0.0122 * x + 7.4658E-005
R = 1.0000
DL = 0.006202
BEC = 0.00611

Weight: <None>
Min Conc: <None>

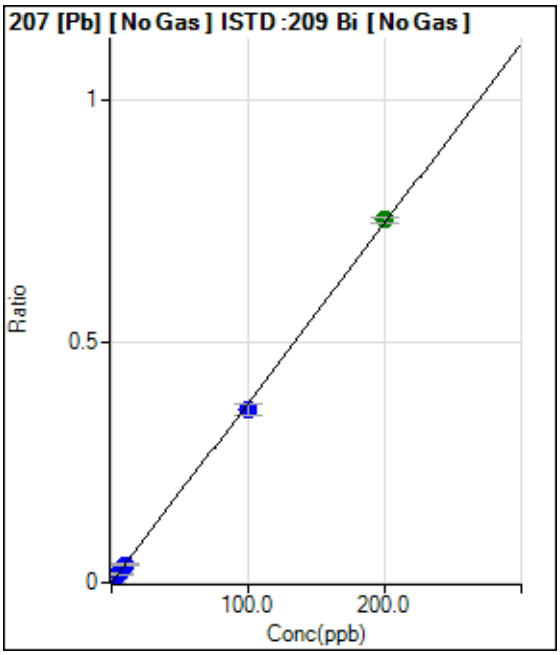


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	27.4
2	☐	2.000	2.007	18493.94	0.0087	P	3.2
3	☐	5.000	4.869	45663.87	0.0209	P	6.1
4	☐	10.000	10.277	93331.08	0.0441	P	2.5
5	☐	100.000	97.287	883676.05	0.4166	P	6.0
6	☐	200.000	201.346	1787070.60	0.8621	A	2.4

y = 0.0043 * x + 8.8713E-005
R = 0.9999
DL = 0.01706
BEC = 0.02072

Weight: <None>
Min Conc: <None>

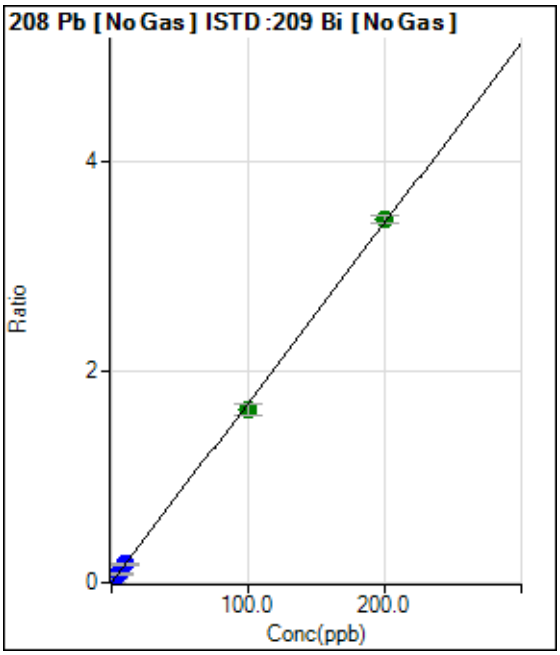
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0001	P	35.6
2	☐	2.000	1.935	15523.28	0.0073	P	4.9
3	☐	5.000	4.834	39499.54	0.0181	P	3.7
4	☐	10.000	10.049	79479.47	0.0375	P	2.2
5	☐	100.000	96.301	761823.95	0.3591	P	6.0
6	☐	200.000	201.852	1560652.11	0.7527	A	1.7

y = 0.0037 * x + 7.1016E-005
R = 0.9998
DL = 0.02035
BEC = 0.01905

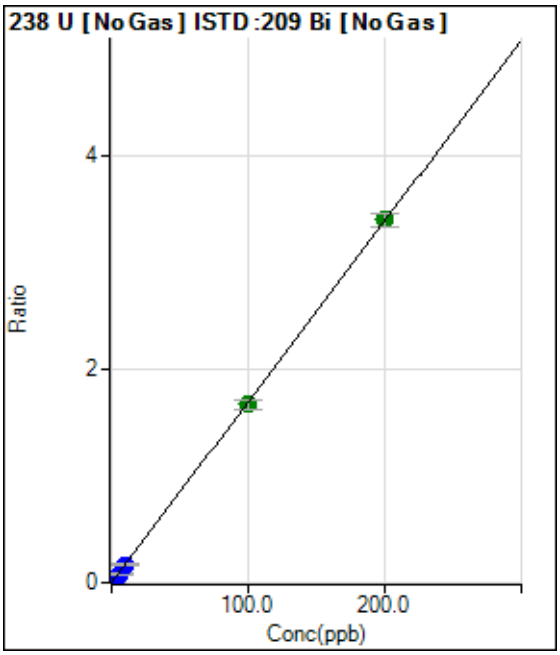
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	740.02	0.0004	P	9.1
2	☐	2.000	1.970	72339.83	0.0340	P	3.6
3	☐	5.000	4.840	180949.88	0.0829	P	4.3
4	☐	10.000	10.207	369339.43	0.1745	P	1.6
5	☐	100.000	96.509	3492183.57	1.6466	A	6.4
6	☐	200.000	201.740	7134741.41	3.4415	A	2.2

y = 0.0171 * x + 3.5164E-004
R = 0.9998
DL = 0.005605
BEC = 0.02062

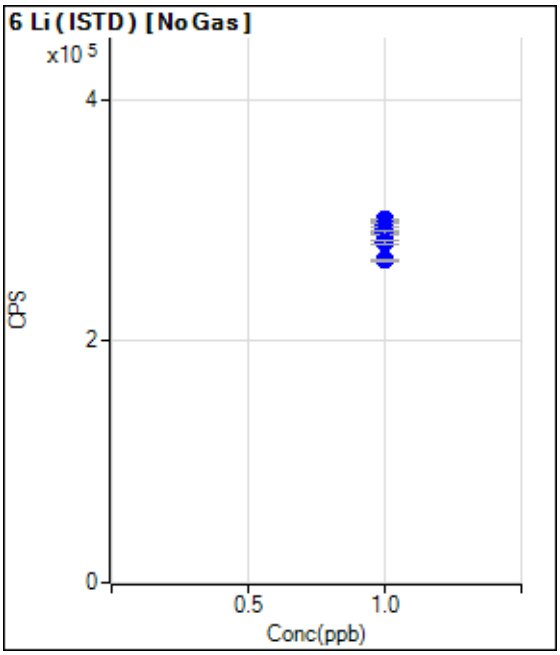
Weight: <None>
Min Conc: <None>



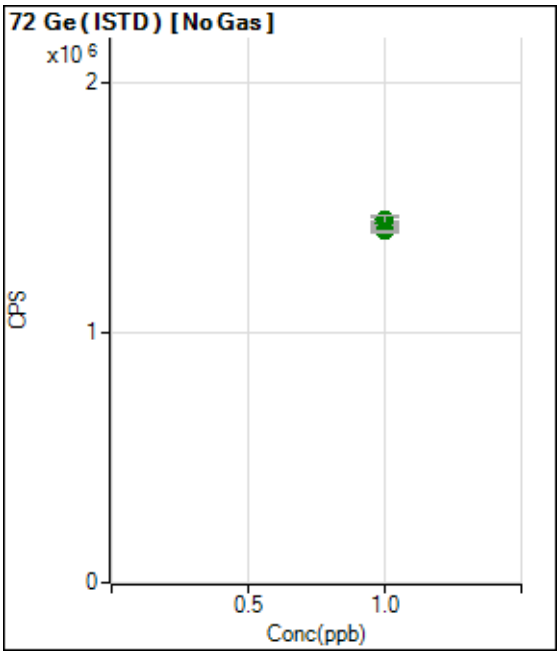
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.68	0.0001	P	16.3
2	☐	2.000	1.933	69842.01	0.0328	P	3.2
3	☐	5.000	4.780	176499.25	0.0809	P	5.3
4	☐	10.000	10.076	360750.51	0.1704	P	0.9
5	☐	100.000	98.537	3532354.01	1.6652	A	6.0
6	☐	200.000	200.734	7029871.36	3.3922	A	3.9

y = 0.0169 * x + 1.1729E-004
R = 1.0000
DL = 0.00339
BEC = 0.006941

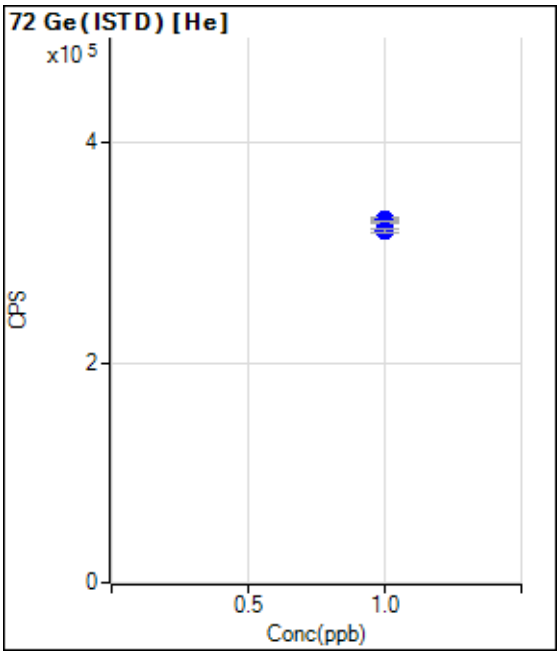
Weight: <None>
Min Conc: <None>



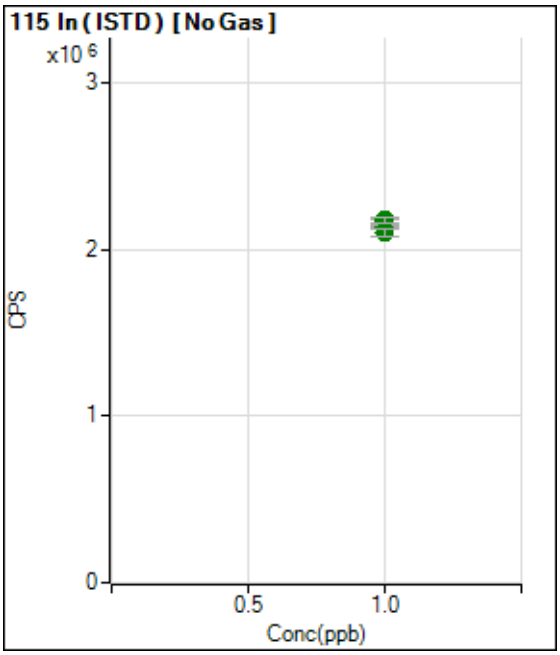
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		300612.42		P	0.8
2	☐	1.000		296386.52		P	0.9
3	☐	1.000		292624.10		P	1.5
4	☐	1.000		290080.39		P	0.8
5	☐	1.000		281847.32		P	1.5
6	☐	1.000		267170.77		P	0.5



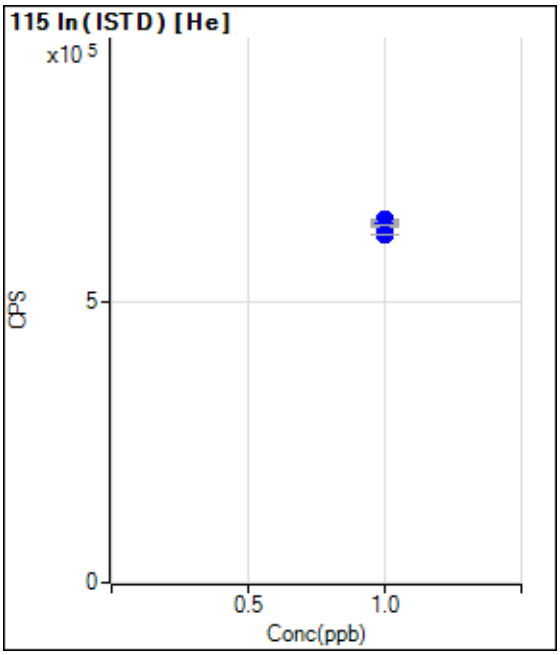
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1425650.08		A	1.7
2	☐	1.000		1442550.71		A	2.6
3	☐	1.000		1448134.46		A	2.3
4	☐	1.000		1440311.07		A	1.4
5	☐	1.000		1451864.62		A	2.4
6	☐	1.000		1405780.71		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		328451.48		P	0.7
2	☐	1.000		328284.63		P	0.7
3	☐	1.000		329735.77		P	0.3
4	☐	1.000		329533.82		P	1.7
5	☐	1.000		327319.73		P	0.7
6	☐	1.000		319873.66		P	0.8

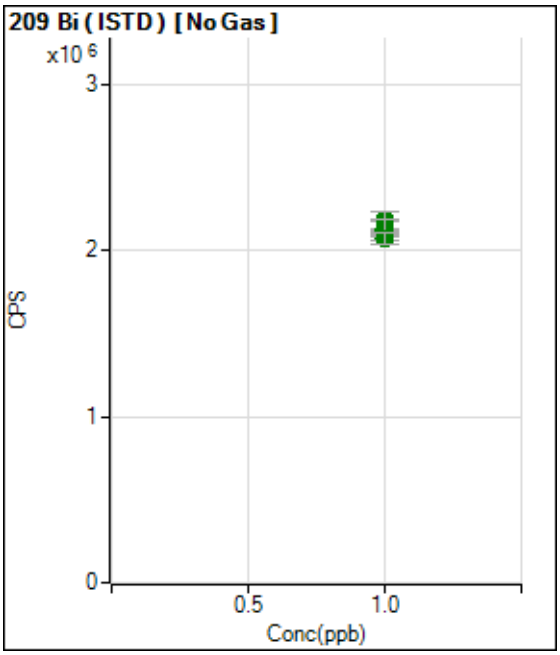


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2144397.45		A	0.6
2	☐	1.000		2138708.57		A	2.0
3	☐	1.000		2175962.76		A	1.4
4	☐	1.000		2164668.81		A	1.6
5	☐	1.000		2174060.58		A	1.2
6	☐	1.000		2098308.26		A	2.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		636462.36		P	1.0
2	☐	1.000		644255.38		P	0.5
3	☐	1.000		646404.45		P	0.5
4	☐	1.000		640485.46		P	1.1
5	☐	1.000		635535.28		P	0.8
6	☐	1.000		619798.67		P	0.3

Calibration for 235_ICV.d



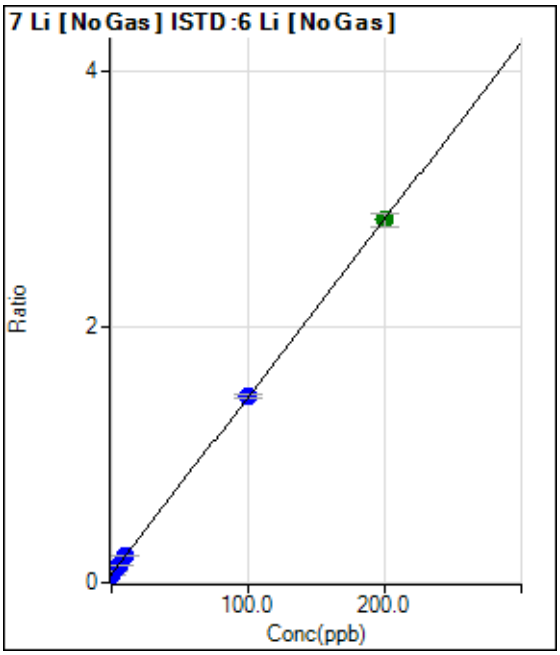
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2105332.16		A	1.5
2	☐	1.000		2132361.32		A	3.8
3	☐	1.000		2185200.07		A	4.6
4	☐	1.000		2117308.41		A	0.9
5	☐	1.000		2126581.90		A	6.3
6	☐	1.000		2074248.56		A	3.7

Calibration for 173_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	166CALB.d	CAL BLK	5/15/2024 7:13:37 PM
2	167CALS.d	2/10/200	5/15/2024 7:15:33 PM
3	168CALS.d	5/25/500	5/15/2024 7:17:29 PM
4	169CALS.d	10/50/100	5/15/2024 7:19:24 PM
5	170CALS.d	100/500/10K	5/15/2024 7:21:20 PM
6	171CALS.d	200/1000/20K	5/15/2024 7:23:10 PM

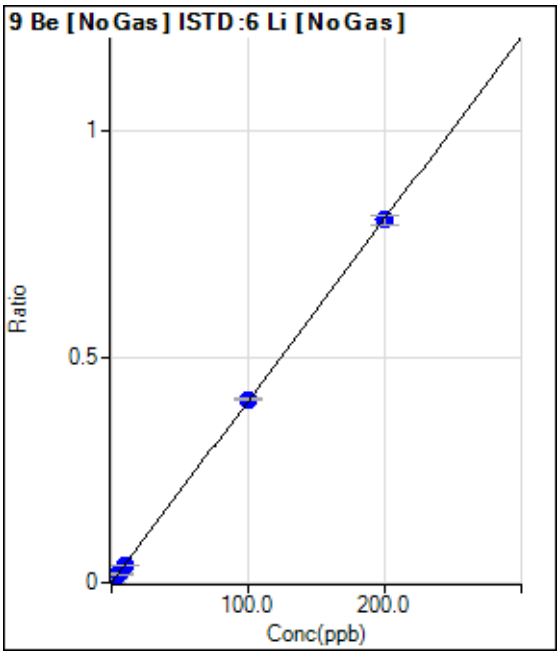
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25977.29	0.0667	P	1.9
2	☐	2.000	1.845	35730.19	0.0923	P	1.7
3	☐	5.000	4.981	52144.27	0.1357	P	1.5
4	☐	10.000	9.997	78359.49	0.2052	P	1.7
5	☐	100.000	100.450	517876.22	1.4576	P	2.2
6	☐	200.000	199.777	962106.60	2.8328	A	3.7

y = 0.0138 * x + 0.0667
R = 1.0000
DL = 0.275
BEC = 4.821

Weight: <None>
Min Conc: <None>

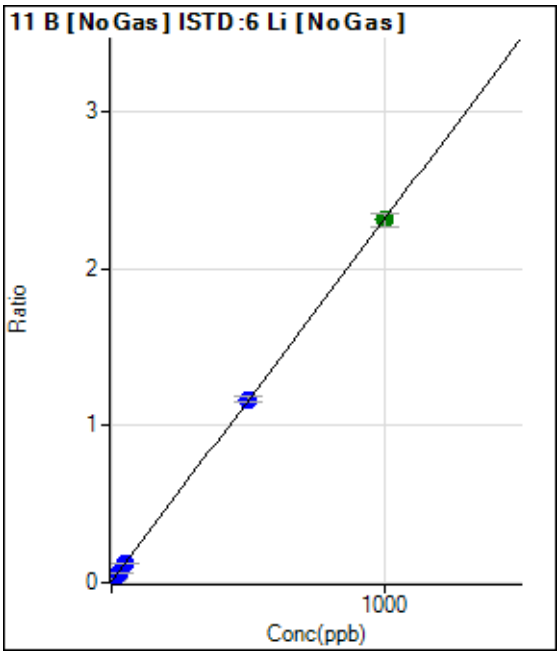


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.7
2	☐	2.000	1.957	3067.03	0.0079	P	13.6
3	☐	5.000	4.846	7520.40	0.0196	P	4.5
4	☐	10.000	9.927	15296.77	0.0401	P	2.1
5	☐	100.000	100.921	144564.39	0.4069	P	1.9
6	☐	200.000	199.547	273235.60	0.8045	P	2.9

y = 0.0040 * x + 3.4206E-005
R = 1.0000
DL = 0.01087
BEC = 0.008485

Weight: <None>
Min Conc: <None>

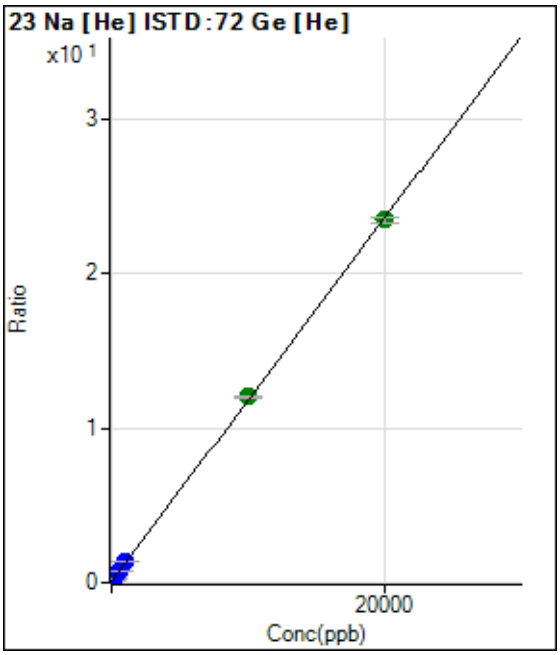
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2786.97	0.0072	P	1.7
2	☐	10.000	9.652	11398.01	0.0294	P	4.3
3	☐	25.000	24.978	24908.80	0.0648	P	1.5
4	☐	50.000	49.754	46601.99	0.1220	P	2.2
5	☐	500.000	503.540	415560.59	1.1696	P	2.7
6	☐	1000.000	998.247	785119.08	2.3117	A	3.7

y = 0.0023 * x + 0.0072
R = 1.0000
DL = 0.155
BEC = 3.102

Weight: <None>
Min Conc: <None>

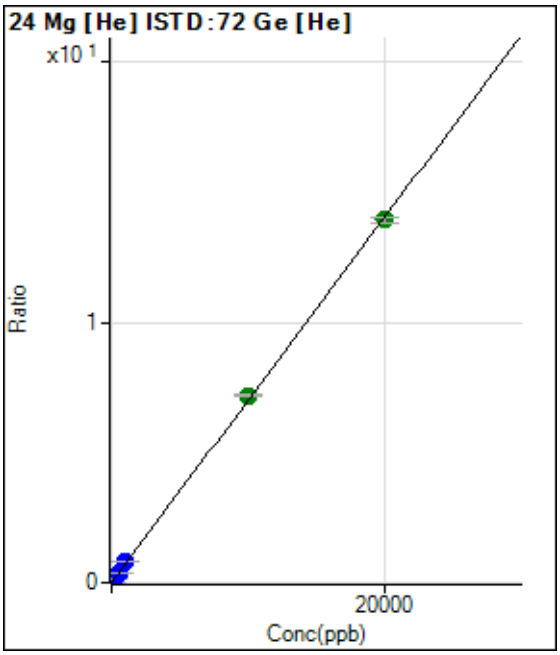


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30109.43	0.0665	P	1.3
2	☐	200.000	205.015	141327.08	0.3078	P	2.0
3	☐	500.000	551.550	330544.49	0.7157	P	1.8
4	☐	1000.000	1105.145	630364.01	1.3673	P	1.0
5	☐	10000.000	10166.424	5330956.17	12.0330	A	0.9
6	☐	20000.000	19910.192	10251632.35	23.5020	A	1.5

y = 0.0012 * x + 0.0665
R = 0.9999
DL = 2.129
BEC = 56.49

Weight: <None>
Min Conc: <None>

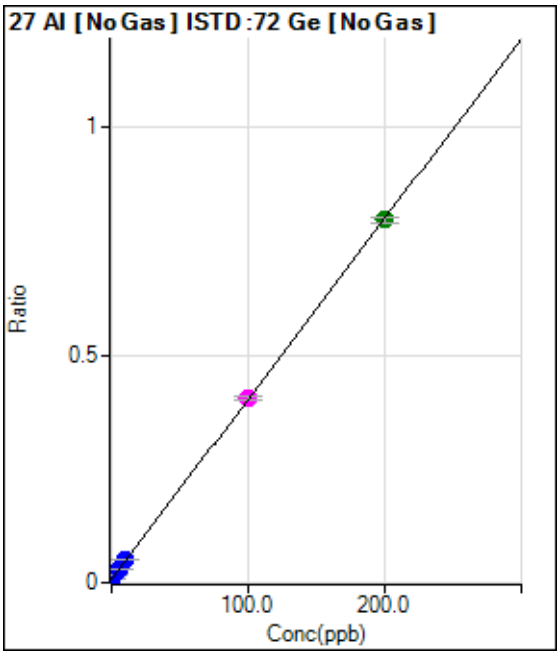
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	686.70	0.0015	P	5.7
2	☐	200.000	211.716	68913.40	0.1501	P	2.6
3	☐	500.000	560.866	182491.32	0.3951	P	2.3
4	☐	1000.000	1115.683	361698.63	0.7845	P	1.7
5	☐	10000.000	10242.500	3185277.76	7.1897	A	1.5
6	☐	20000.000	19871.327	6083749.49	13.9473	A	1.5

y = 7.0180E-004 * x + 0.0015
R = 0.9999
DL = 0.3705
BEC = 2.161

Weight: <None>
Min Conc: <None>

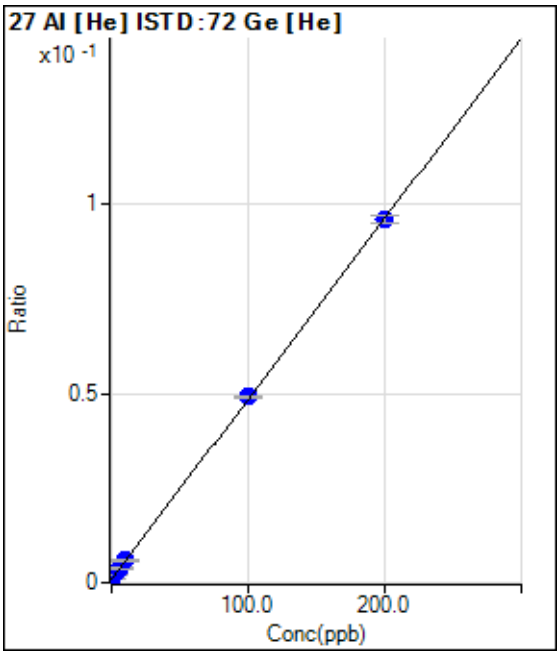


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15378.78	0.0077	P	2.5
2	☐	2.000	2.123	32548.30	0.0161	P	0.5
3	☐	5.000	5.380	58030.80	0.0290	P	1.1
4	☐	10.000	10.784	101561.97	0.0504	P	1.6
5	☐	100.000	100.890	799052.10	0.4070	M	2.3
6	☐	200.000	199.505	1514846.33	0.7972	A	1.6

y = 0.0040 * x + 0.0077
R = 1.0000
DL = 0.1448
BEC = 1.952

Weight: <None>
Min Conc: <None>

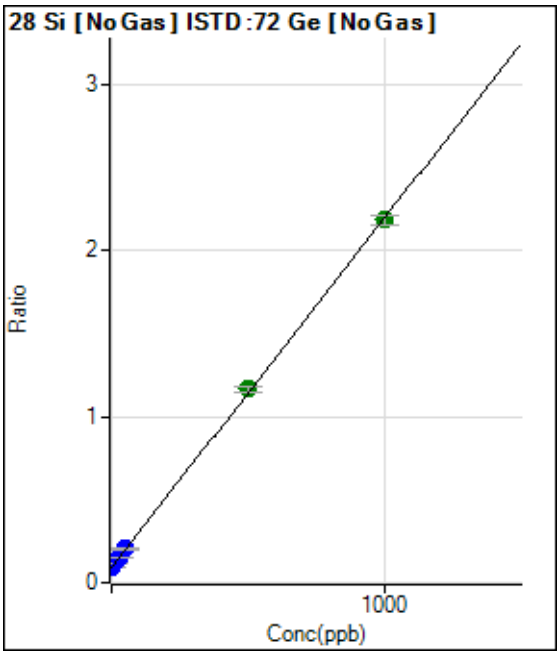
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	416.68	0.0009	P	28.8
2	☐	2.000	2.185	900.05	0.0020	P	6.1
3	☐	5.000	6.013	1746.81	0.0038	P	5.0
4	☐	10.000	10.496	2726.99	0.0059	P	3.8
5	☐	100.000	101.145	21733.87	0.0491	P	1.6
6	☐	200.000	199.376	41793.08	0.0958	P	2.2

y = 4.7592E-004 * x + 9.2057E-004
R = 1.0000
DL = 1.672
BEC = 1.934

Weight: <None>
Min Conc: <None>

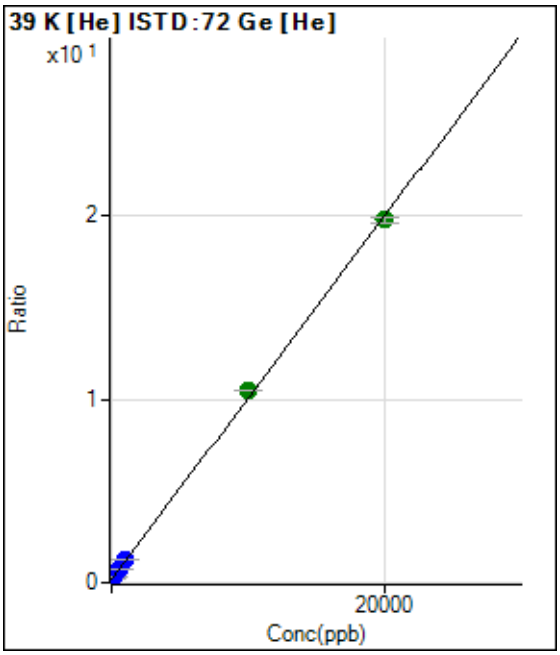


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181334.05	0.0911	P	0.9
2	☐	10.000	10.424	228109.50	0.1130	P	1.7
3	☐	25.000	27.206	296674.38	0.1483	P	1.1
4	☐	50.000	53.439	410084.36	0.2035	P	2.5
5	☐	500.000	509.928	2285337.73	1.1641	A	3.8
6	☐	1000.000	994.805	4150103.79	2.1843	A	3.0

y = 0.0021 * x + 0.0911
R = 0.9999
DL = 1.184
BEC = 43.29

Weight: <None>
Min Conc: <None>

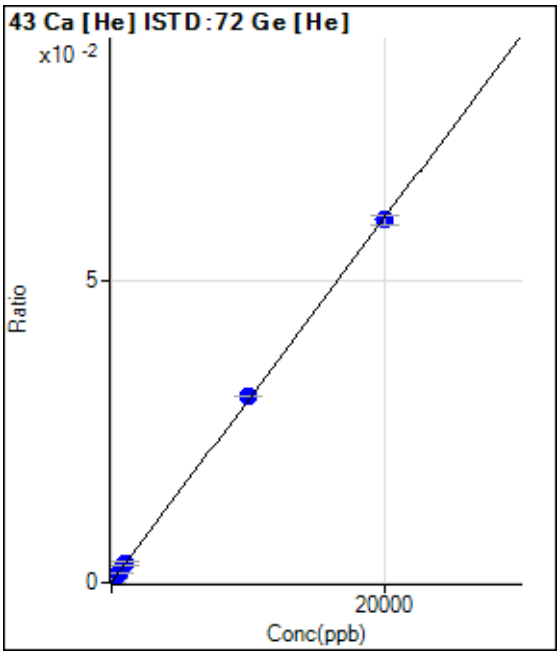
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71666.20	0.1583	P	1.4
2	☐	200.000	207.210	166896.28	0.3635	P	0.5
3	☐	500.000	554.649	326835.59	0.7077	P	1.5
4	☐	1000.000	1099.825	575232.32	1.2477	P	1.0
5	☐	10000.000	10403.512	4635519.31	10.4635	A	0.7
6	☐	20000.000	19791.815	8620931.95	19.7631	A	1.4

y = 9.9056E-004 * x + 0.1583
R = 0.9997
DL = 6.573
BEC = 159.8

Weight: <None>
Min Conc: <None>

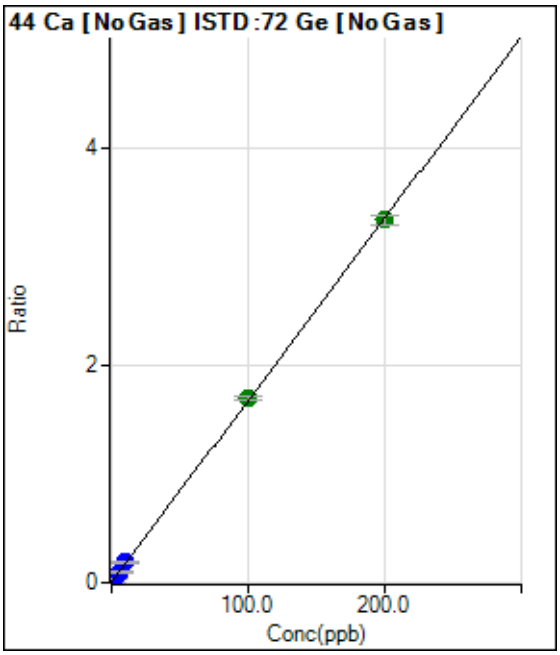


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	0.4
2	☐	200.000	168.011	253.34	0.0006	P	23.5
3	☐	500.000	489.204	703.37	0.0015	P	8.5
4	☐	1000.000	1052.970	1486.77	0.0032	P	13.5
5	☐	10000.000	10221.681	13710.35	0.0309	P	0.6
6	☐	20000.000	19887.101	26245.32	0.0602	P	2.4

y = 3.0232E-006 * x + 4.4168E-005
R = 0.9999
DL = 0.1652
BEC = 14.61

Weight: <None>
Min Conc: <None>

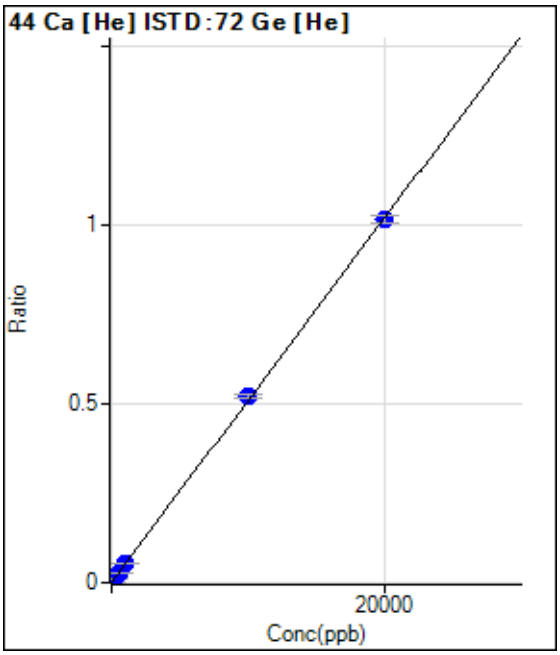
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5771.33	0.0029	P	4.0
2	☐	2.000	2.128	77588.00	0.0384	P	2.5
3	☐	5.000	5.599	192849.64	0.0964	P	1.5
4	☐	10.000	10.942	374077.34	0.1857	P	3.3
5	☐	100.000	101.256	3326166.62	1.6942	A	2.6
6	☐	200.000	199.309	6330483.03	3.3320	A	2.5

y = 0.0167 * x + 0.0029
R = 1.0000
DL = 0.0208
BEC = 0.1736

Weight: <None>
Min Conc: <None>

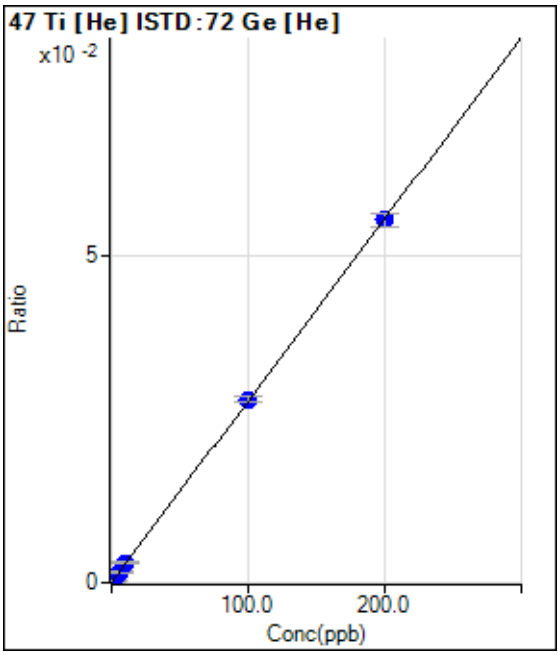


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0006	P	14.0
2	☐	200.000	201.900	4984.31	0.0109	P	4.6
3	☐	500.000	527.056	12656.03	0.0274	P	1.5
4	☐	1000.000	1037.499	24608.84	0.0534	P	0.9
5	☐	10000.000	10194.934	230097.37	0.5194	P	1.8
6	☐	20000.000	19899.963	441983.26	1.0132	P	2.0

y = 5.0888E-005 * x + 5.8136E-004
R = 0.9999
DL = 4.813
BEC = 11.42

Weight: <None>
Min Conc: <None>

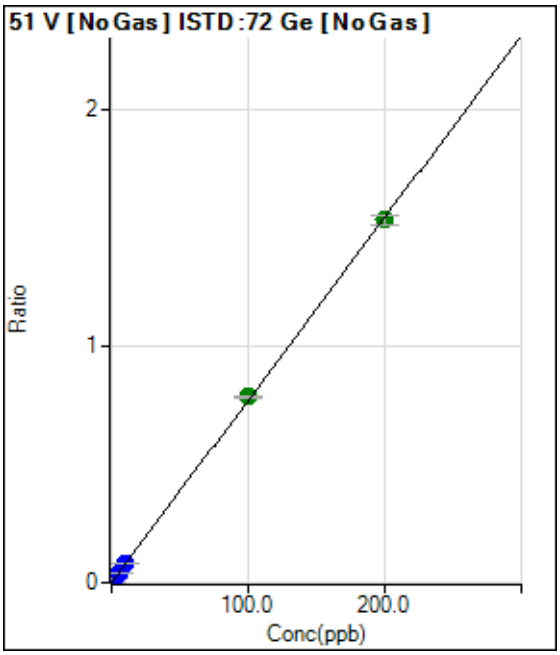
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.8
2	☐	2.000	1.332	183.33	0.0004	P	13.7
3	☐	5.000	5.692	743.37	0.0016	P	15.9
4	☐	10.000	10.781	1393.43	0.0030	P	13.1
5	☐	100.000	100.702	12402.45	0.0280	P	3.0
6	☐	200.000	199.599	24188.27	0.0555	P	3.6

y = 2.7769E-004 * x + 2.9527E-005
R = 1.0000
DL = 0.3662
BEC = 0.1063

Weight: <None>
Min Conc: <None>

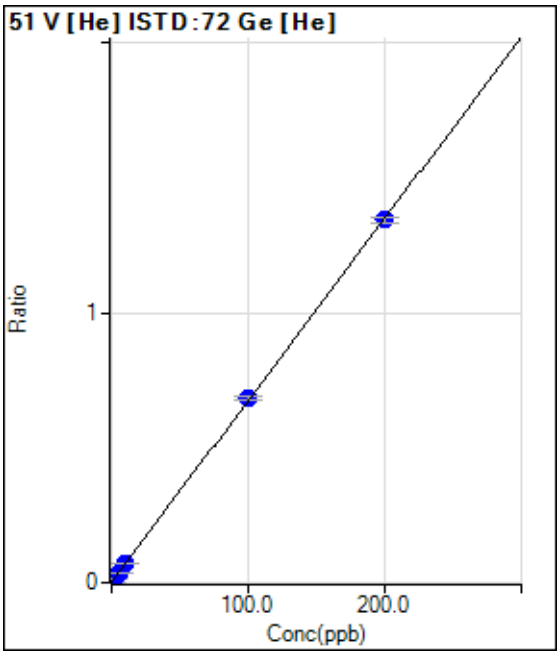


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2518.39	-0.0013	P	-23.1
2	☐	2.000	2.056	29390.61	0.0146	P	5.1
3	☐	5.000	5.445	81334.77	0.0407	P	3.0
4	☐	10.000	10.678	163119.60	0.0810	P	3.2
5	☐	100.000	101.948	1539027.15	0.7838	A	0.6
6	☐	200.000	198.980	2908944.54	1.5310	A	2.6

y = 0.0077 * x - 0.0013
R = 0.9999
DL = 0.1138
BEC = -0.1645

Weight: <None>
Min Conc: <None>

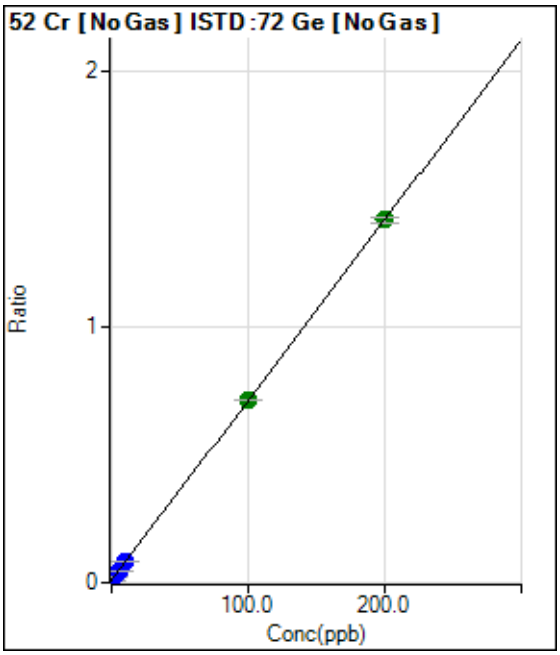
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	691.72	0.0015	P	18.2
2	☐	2.000	2.051	7041.15	0.0153	P	6.3
3	☐	5.000	5.392	17465.29	0.0378	P	4.6
4	☐	10.000	10.114	32085.89	0.0696	P	1.0
5	☐	100.000	101.181	302392.42	0.6826	P	2.1
6	☐	200.000	199.394	586087.44	1.3436	P	1.4

y = 0.0067 * x + 0.0015
R = 1.0000
DL = 0.1241
BEC = 0.2269

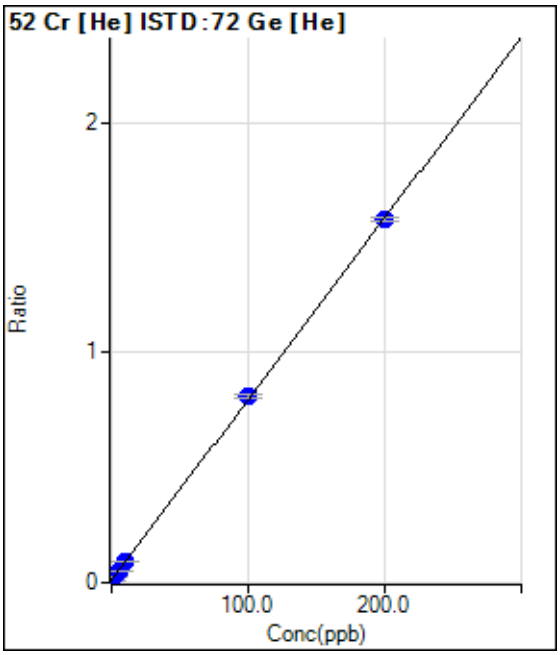
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17571.58	0.0088	P	2.2
2	☐	2.000	2.024	46569.31	0.0231	P	0.9
3	☐	5.000	5.381	93390.27	0.0467	P	2.7
4	☐	10.000	10.514	166852.65	0.0828	P	3.0
5	☐	100.000	99.963	1398680.03	0.7123	A	0.1
6	☐	200.000	199.983	2690829.65	1.4162	A	1.8

y = 0.0070 * x + 0.0088
R = 1.0000
DL = 0.08234
BEC = 1.254

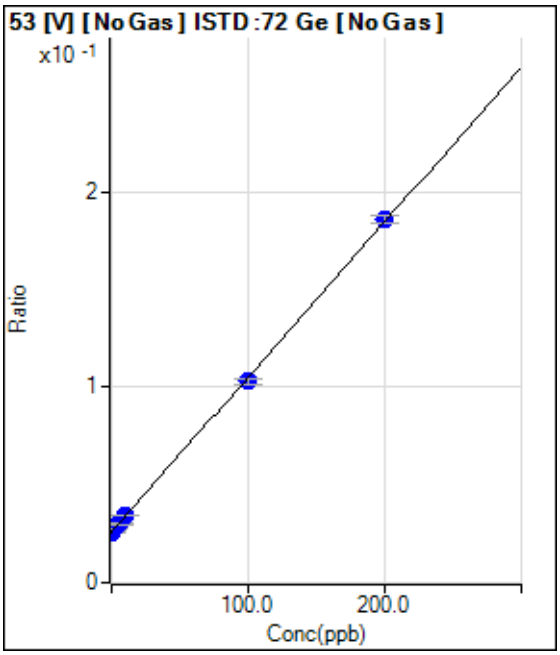
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4410.78	0.0097	P	10.3
2	☐	2.000	1.995	11678.51	0.0254	P	4.0
3	☐	5.000	5.302	23760.97	0.0514	P	2.5
4	☐	10.000	10.497	42559.91	0.0923	P	1.2
5	☐	100.000	101.569	358274.84	0.8087	P	2.0
6	☐	200.000	199.183	687712.57	1.5766	P	1.0

y = 0.0079 * x + 0.0097
R = 1.0000
DL = 0.3811
BEC = 1.239

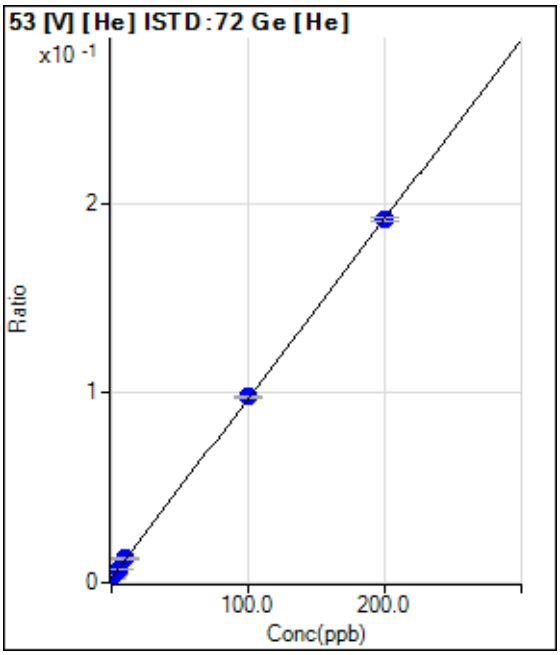
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51701.11	0.0260	P	1.8
2	☐	2.000	1.744	55218.28	0.0274	P	0.8
3	☐	5.000	5.334	60399.85	0.0302	P	1.9
4	☐	10.000	10.452	69027.11	0.0343	P	0.9
5	☐	100.000	97.272	202294.15	0.1030	P	2.7
6	☐	200.000	201.336	352388.36	0.1855	P	2.3

y = 7.9220E-004 * x + 0.0260
R = 0.9999
DL = 1.813
BEC = 32.79

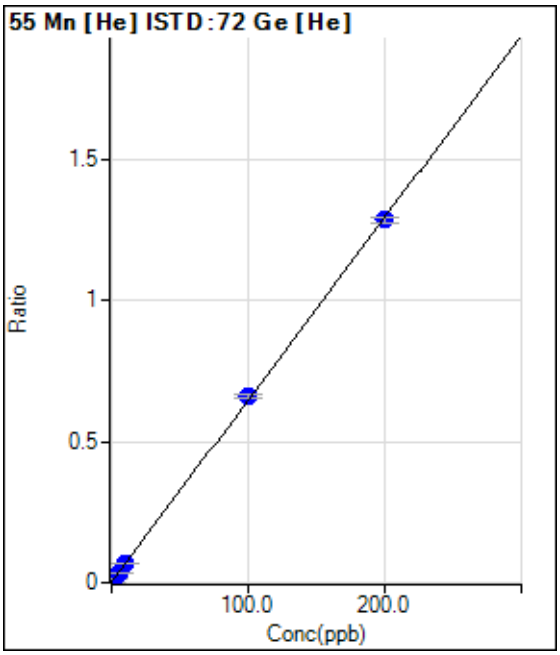
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1156.74	0.0026	P	7.4
2	☐	2.000	1.653	1890.17	0.0041	P	4.5
3	☐	5.000	4.888	3313.79	0.0072	P	11.2
4	☐	10.000	10.784	5878.04	0.0127	P	3.4
5	☐	100.000	100.803	43342.26	0.0978	P	1.4
6	☐	200.000	199.565	83393.25	0.1912	P	1.2

y = 9.4518E-004 * x + 0.0026
R = 1.0000
DL = 0.6023
BEC = 2.703

Weight: <None>
Min Conc: <None>

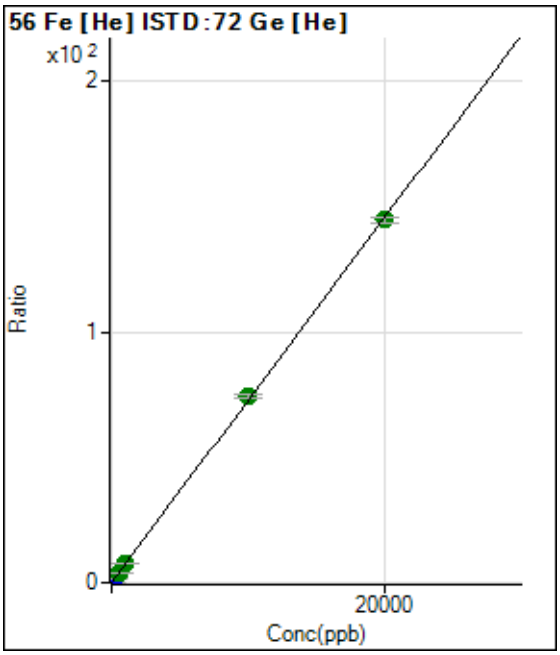


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	836.71	0.0018	P	26.5
2	☐	2.000	2.020	6831.82	0.0149	P	6.8
3	☐	5.000	5.342	16770.56	0.0363	P	0.1
4	☐	10.000	10.675	32599.14	0.0707	P	0.8
5	☐	100.000	102.189	292885.65	0.6611	P	2.7
6	☐	200.000	198.863	560427.74	1.2847	P	1.6

y = 0.0065 * x + 0.0018
R = 0.9999
DL = 0.2274
BEC = 0.2865

Weight: <None>
Min Conc: <None>

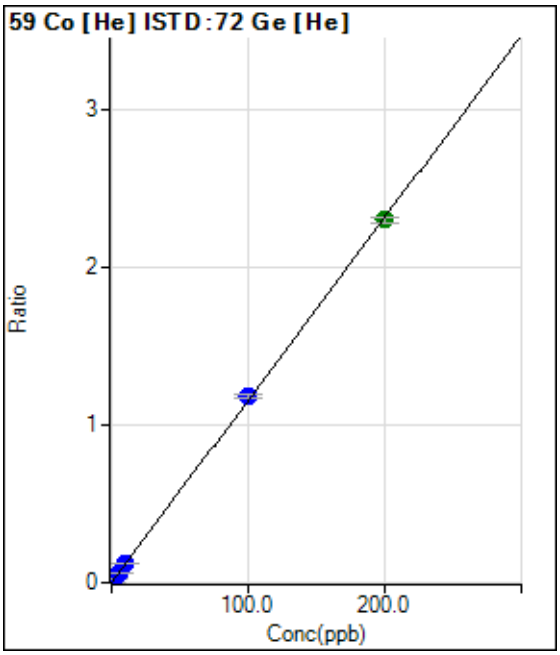
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13960.67	0.0308	P	1.3
2	☐	200.000	208.202	709840.12	1.5461	P	1.7
3	☐	500.000	548.082	1856448.04	4.0196	A	0.3
4	☐	1000.000	1062.202	3578251.41	7.7612	A	1.2
5	☐	10000.000	10227.944	32990701.18	74.4663	A	1.3
6	☐	20000.000	19881.634	63128550.73	144.7226	A	1.6

y = 0.0073 * x + 0.0308
R = 0.9999
DL = 0.1677
BEC = 4.236

Weight: <None>
Min Conc: <None>

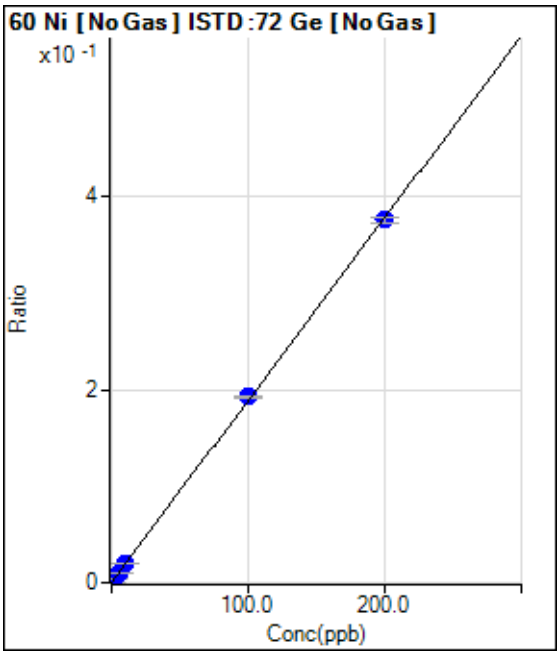


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0001	P	43.1
2	☐	2.000	2.003	10664.37	0.0232	P	1.7
3	☐	5.000	5.268	28162.74	0.0610	P	2.9
4	☐	10.000	10.472	55864.56	0.1212	P	3.1
5	☐	100.000	102.146	523360.12	1.1813	P	1.4
6	☐	200.000	198.896	1003303.24	2.3002	A	1.9

y = 0.0116 * x + 5.8855E-005
R = 0.9999
DL = 0.006576
BEC = 0.005089

Weight: <None>
Min Conc: <None>

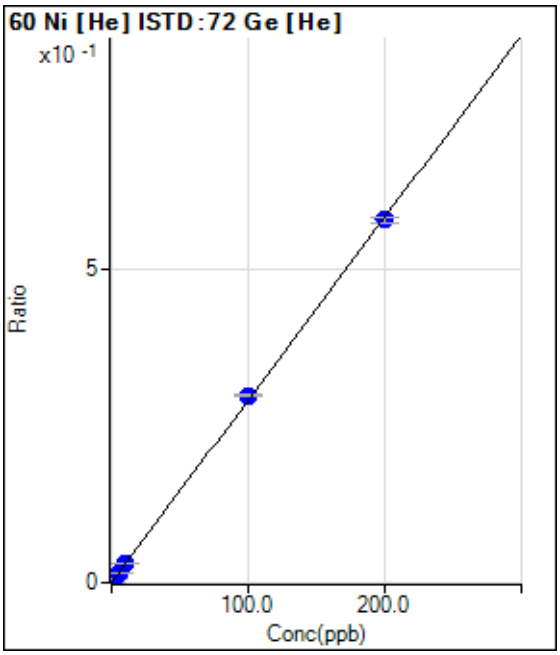
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0002	P	8.3
2	☐	2.000	2.178	8629.56	0.0043	P	3.4
3	☐	5.000	5.496	21079.92	0.0105	P	2.7
4	☐	10.000	10.689	40995.24	0.0203	P	2.2
5	☐	100.000	101.802	377753.68	0.1924	P	1.8
6	☐	200.000	199.050	714450.56	0.3760	P	1.7

y = 0.0019 * x + 1.6247E-004
R = 0.9999
DL = 0.0215
BEC = 0.08604

Weight: <None>
Min Conc: <None>

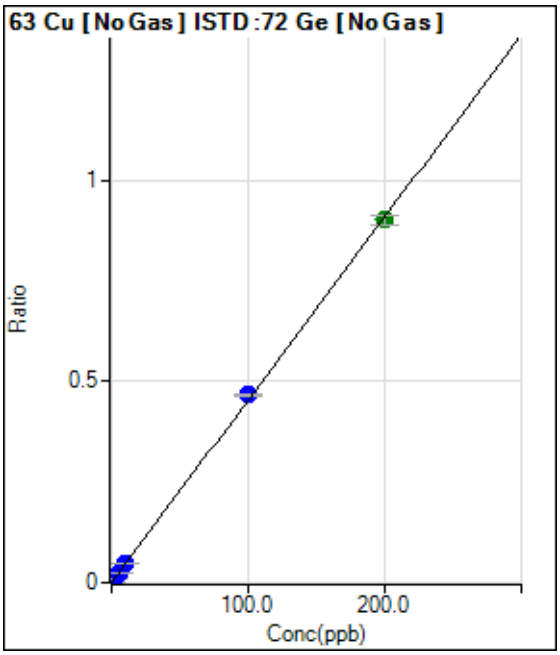


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0002	P	26.7
2	☐	2.000	2.018	2797.00	0.0061	P	2.1
3	☐	5.000	5.263	7175.36	0.0155	P	6.7
4	☐	10.000	10.475	14154.21	0.0307	P	1.5
5	☐	100.000	102.353	132058.51	0.2981	P	1.3
6	☐	200.000	198.793	252444.39	0.5787	P	1.4

y = 0.0029 * x + 2.2093E-004
R = 0.9999
DL = 0.06075
BEC = 0.07592

Weight: <None>
Min Conc: <None>

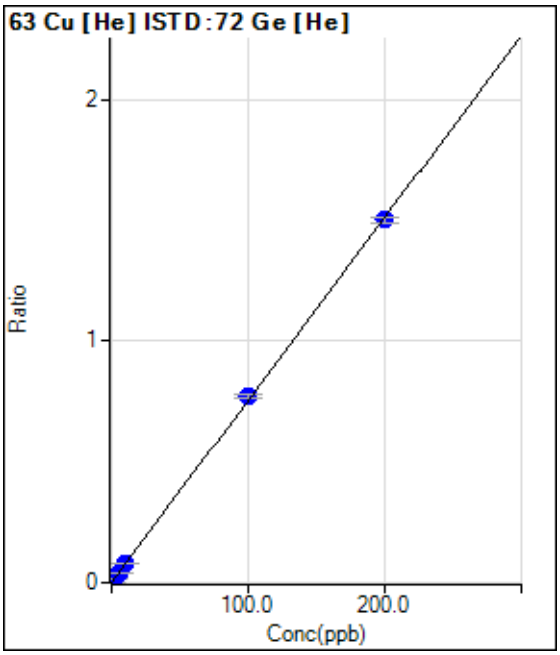
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	756.70	0.0004	P	9.3
2	☐	2.000	2.080	19808.10	0.0098	P	6.9
3	☐	5.000	5.466	50356.51	0.0252	P	1.6
4	☐	10.000	10.808	99558.94	0.0494	P	2.6
5	☐	100.000	102.627	914856.21	0.4660	P	1.8
6	☐	200.000	198.633	1712812.01	0.9015	A	3.0

y = 0.0045 * x + 3.8057E-004
R = 0.9999
DL = 0.02331
BEC = 0.08389

Weight: <None>
Min Conc: <None>

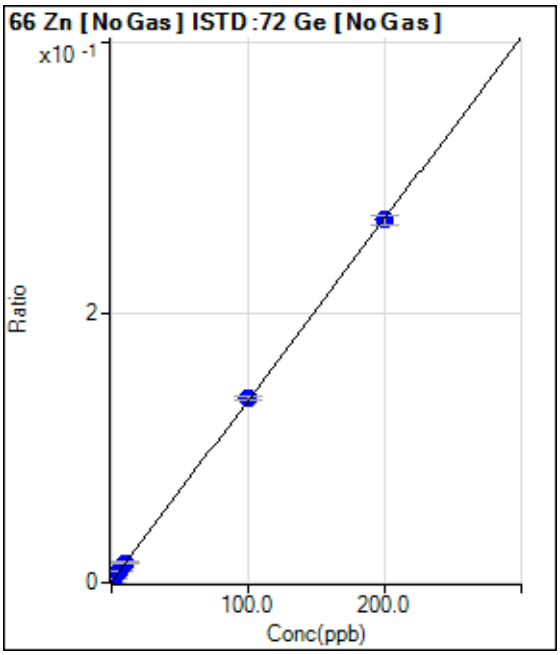


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	300.01	0.0007	P	8.5
2	☐	2.000	1.915	6938.54	0.0151	P	1.9
3	☐	5.000	5.167	18319.22	0.0397	P	2.9
4	☐	10.000	10.545	37000.50	0.0803	P	0.7
5	☐	100.000	102.097	341699.27	0.7713	P	2.4
6	☐	200.000	198.921	655212.12	1.5021	P	1.4

y = 0.0075 * x + 6.6240E-004
R = 0.9999
DL = 0.02231
BEC = 0.08776

Weight: <None>
Min Conc: <None>

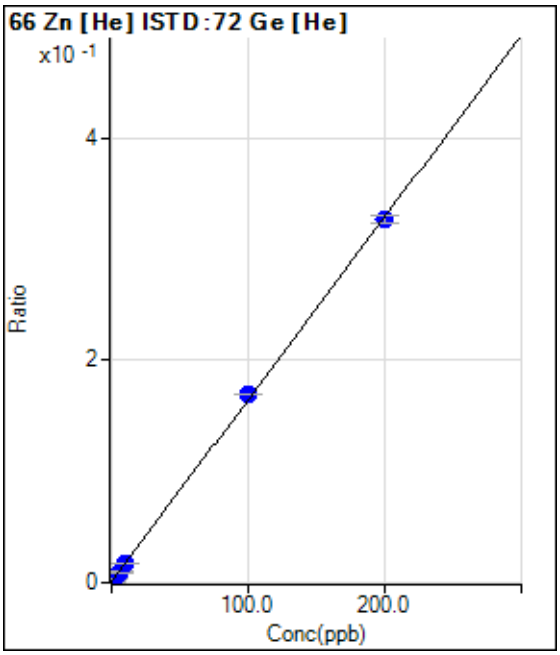
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1336.75	0.0007	P	1.8
2	☐	2.000	1.996	6768.50	0.0034	P	4.7
3	☐	5.000	5.432	15942.96	0.0080	P	1.9
4	☐	10.000	10.619	30103.76	0.0149	P	3.2
5	☐	100.000	101.187	268319.22	0.1367	P	1.3
6	☐	200.000	199.365	510302.34	0.2686	P	2.5

y = 0.0013 * x + 6.7122E-004
R = 1.0000
DL = 0.02651
BEC = 0.4995

Weight: <None>
Min Conc: <None>

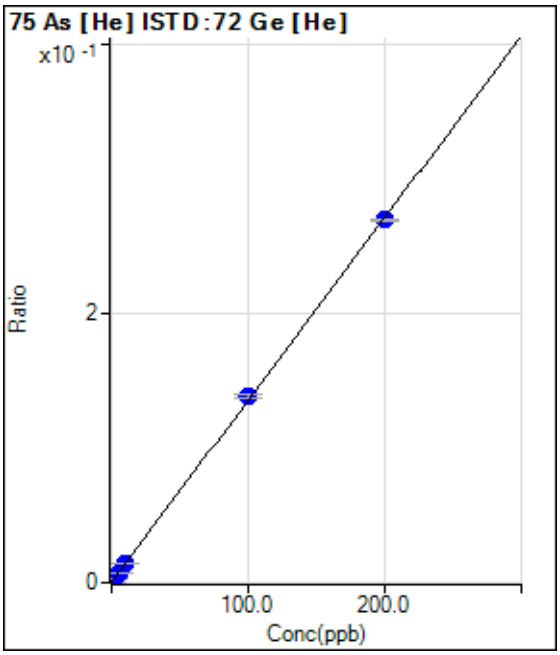


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0008	P	24.5
2	☐	2.000	1.948	1830.16	0.0040	P	2.8
3	☐	5.000	5.311	4384.12	0.0095	P	2.8
4	☐	10.000	10.270	8119.24	0.0176	P	3.9
5	☐	100.000	102.712	74876.06	0.1690	P	0.3
6	☐	200.000	198.623	142235.71	0.3261	P	2.2

y = 0.0016 * x + 7.9553E-004
R = 0.9999
DL = 0.3566
BEC = 0.4858

Weight: <None>
Min Conc: <None>

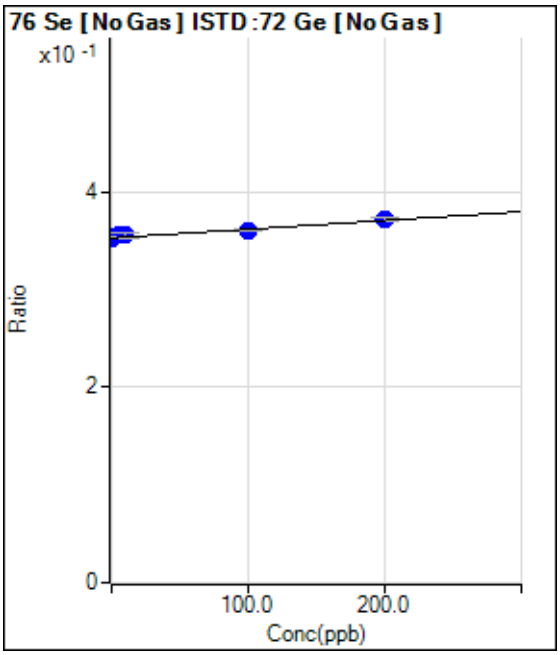
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.89	0.0004	P	10.5
2	☐	2.000	2.007	1408.97	0.0031	P	1.4
3	☐	5.000	5.318	3488.24	0.0076	P	4.3
4	☐	10.000	10.132	6488.27	0.0141	P	0.5
5	☐	100.000	101.933	61320.64	0.1384	P	2.5
6	☐	200.000	199.019	117737.15	0.2699	P	0.6

y = 0.0014 * x + 3.5094E-004
R = 0.9999
DL = 0.08171
BEC = 0.2591

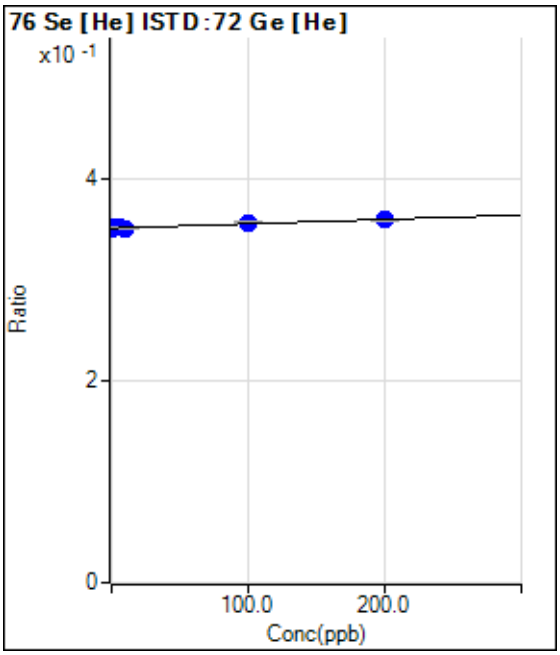
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	702397.83	0.3528	P	1.2
2	☐	2.000	23.074	716338.09	0.3549	P	1.2
3	☐	5.000	38.055	712523.82	0.3563	P	1.0
4	☐	10.000	36.079	717495.17	0.3561	P	1.6
5	☐	100.000	84.425	707720.46	0.3604	P	0.7
6	☐	200.000	205.446	705516.13	0.3713	P	1.1

y = 9.0016E-005 * x + 0.3528
R = 0.9769
DL = 135.3
BEC = 3920

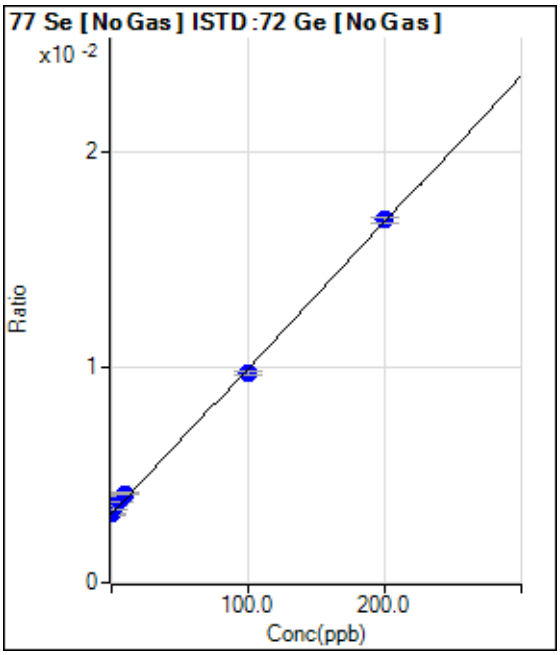
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	159172.62	0.3515	P	0.8
2	☐	2.000	43.717	162259.45	0.3534	P	1.0
3	☐	5.000	12.097	162586.62	0.3520	P	0.8
4	☐	10.000	3.223	162117.61	0.3517	P	0.1
5	☐	100.000	126.608	158178.68	0.3570	P	0.6
6	☐	200.000	186.440	156889.82	0.3597	P	0.3

y = 4.3716E-005 * x + 0.3515
R = 0.9664
DL = 186.9
BEC = 8041

Weight: <None>
Min Conc: <None>

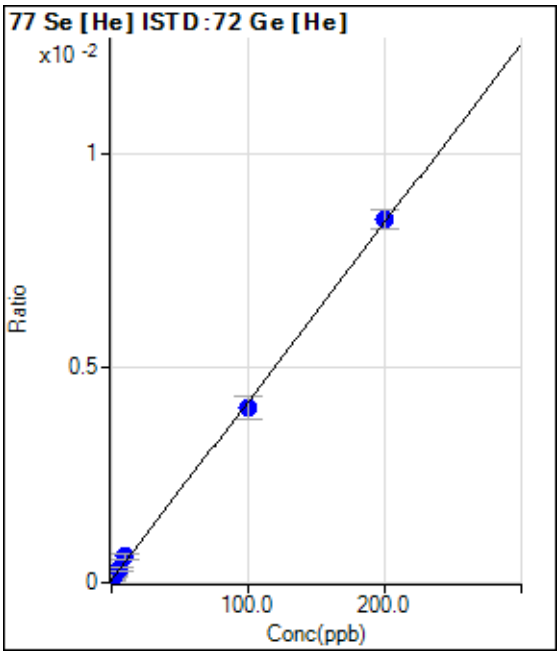


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6321.60	0.0032	P	2.4
2	☐	2.000	4.715	7055.30	0.0035	P	5.0
3	☐	5.000	10.398	7762.36	0.0039	P	5.3
4	☐	10.000	13.910	8302.72	0.0041	P	2.5
5	☐	100.000	96.607	19117.22	0.0097	P	2.2
6	☐	200.000	201.339	32014.91	0.0168	P	1.9

y = 6.7914E-005 * x + 0.0032
R = 0.9994
DL = 3.417
BEC = 46.76

Weight: <None>
Min Conc: <None>

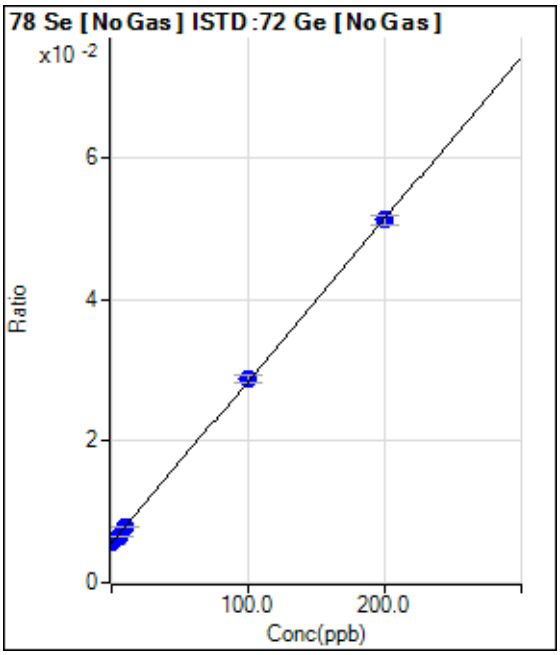
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0001	P	77.9
2	☐	2.000	2.249	70.00	0.0002	P	37.5
3	☐	5.000	6.214	146.67	0.0003	P	38.4
4	☐	10.000	13.543	286.68	0.0006	P	20.8
5	☐	100.000	96.407	1803.49	0.0041	P	12.6
6	☐	200.000	201.586	3683.90	0.0084	P	5.1

y = 4.1599E-005 * x + 5.8806E-005
R = 0.9996
DL = 3.303
BEC = 1.414

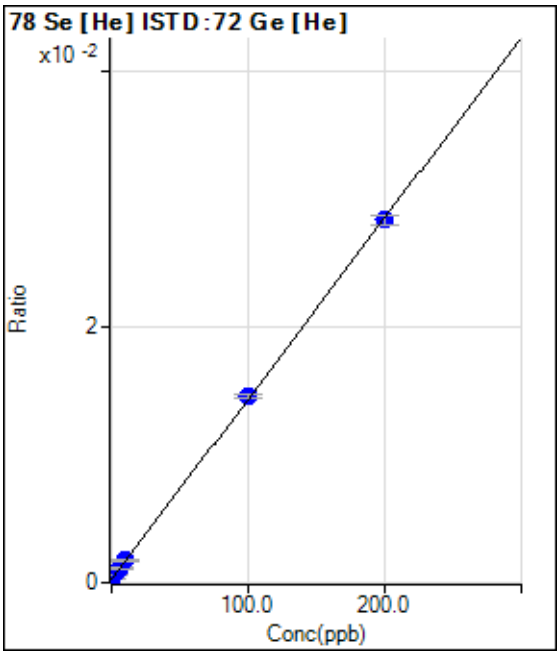
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11121.43	0.0056	P	4.1
2	☐	2.000	1.843	12128.96	0.0060	P	4.0
3	☐	5.000	4.344	13166.61	0.0066	P	1.2
4	☐	10.000	9.861	15809.52	0.0078	P	2.5
5	☐	100.000	101.238	56431.74	0.0287	P	3.5
6	☐	200.000	199.406	97269.31	0.0512	P	2.6

y = 2.2872E-004 * x + 0.0056
R = 1.0000
DL = 2.991
BEC = 24.44

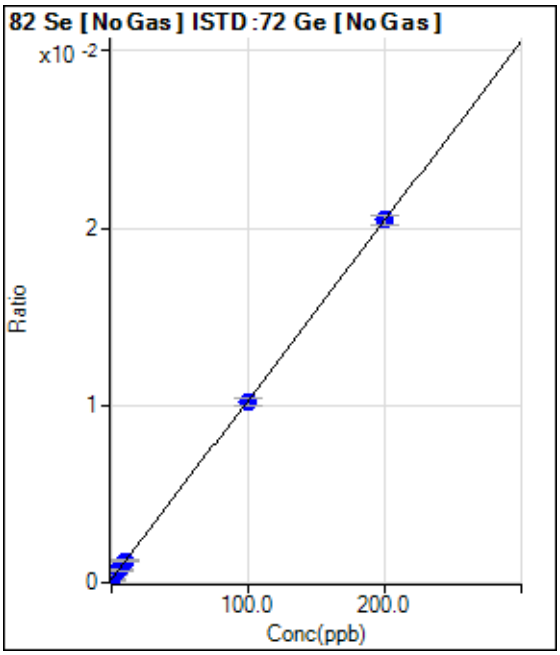
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.67	0.0003	P	11.9
2	☐	2.000	2.103	260.67	0.0006	P	5.4
3	☐	5.000	5.688	496.01	0.0011	P	11.0
4	☐	10.000	10.373	800.02	0.0017	P	6.4
5	☐	100.000	101.490	6466.23	0.0146	P	3.0
6	☐	200.000	199.218	12383.04	0.0284	P	2.3

y = 1.4114E-004 * x + 2.7093E-004
R = 1.0000
DL = 0.687
BEC = 1.92

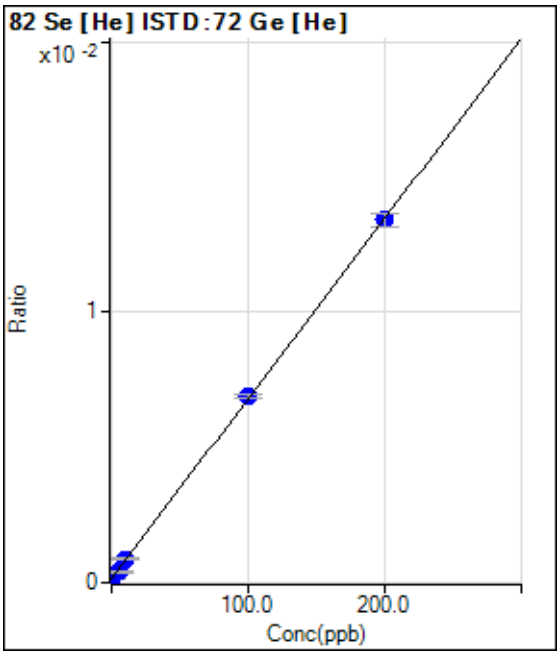
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	343.35	0.0002	P	31.3
2	☐	2.000	2.379	833.38	0.0004	P	11.1
3	☐	5.000	5.275	1413.43	0.0007	P	9.1
4	☐	10.000	10.423	2473.61	0.0012	P	5.4
5	☐	100.000	99.131	20035.21	0.0102	P	4.1
6	☐	200.000	200.403	38859.97	0.0205	P	2.7

y = 1.0120E-004 * x + 1.7258E-004
R = 1.0000
DL = 1.6
BEC = 1.705

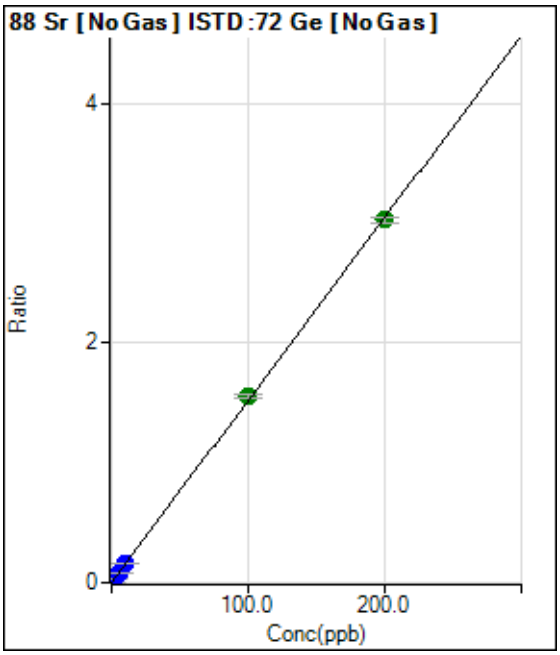
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	29.3
2	☐	2.000	2.369	133.33	0.0003	P	9.1
3	☐	5.000	3.969	183.34	0.0004	P	22.3
4	☐	10.000	11.135	403.35	0.0009	P	4.3
5	☐	100.000	101.438	3053.74	0.0069	P	1.5
6	☐	200.000	199.246	5851.36	0.0134	P	3.7

y = 6.6648E-005 * x + 1.3260E-004
R = 0.9999
DL = 1.748
BEC = 1.99

Weight: <None>
Min Conc: <None>

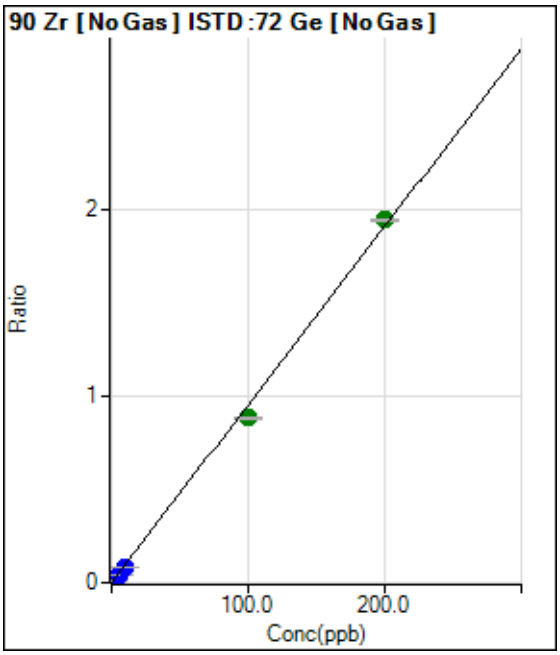


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	813.38	0.0004	P	13.3
2	☐	2.000	2.037	63409.97	0.0314	P	2.6
3	☐	5.000	5.344	163441.46	0.0817	P	2.8
4	☐	10.000	10.495	322598.16	0.1601	P	3.5
5	☐	100.000	102.045	3049689.64	1.5533	A	2.4
6	☐	200.000	198.944	5753182.21	3.0279	A	1.6

y = 0.0152 * x + 4.0848E-004
R = 0.9999
DL = 0.01071
BEC = 0.02684

Weight: <None>
Min Conc: <None>

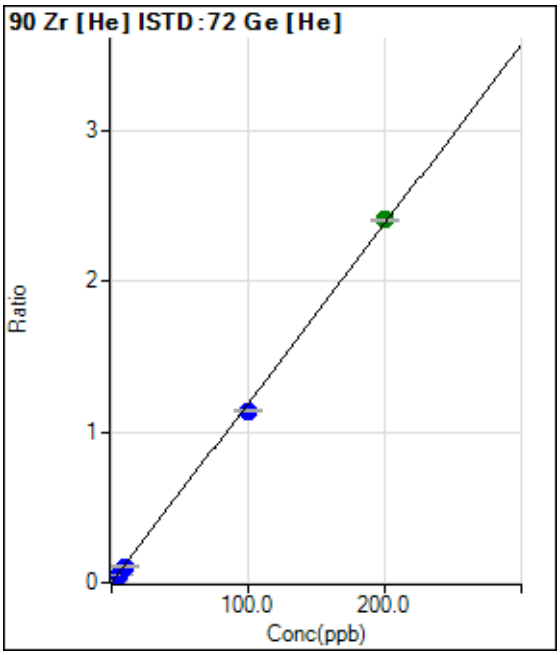
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1076.73	0.0005	P	9.7
2	☐	2.000	1.533	30538.48	0.0151	P	3.7
3	☐	5.000	4.193	80900.31	0.0404	P	1.3
4	☐	10.000	8.645	166887.54	0.0828	P	1.9
5	☐	100.000	92.482	1729284.56	0.8808	A	2.0
6	☐	200.000	203.852	3687609.22	1.9408	A	0.2

y = 0.0095 * x + 5.4006E-004
R = 0.9991
DL = 0.01654
BEC = 0.05674

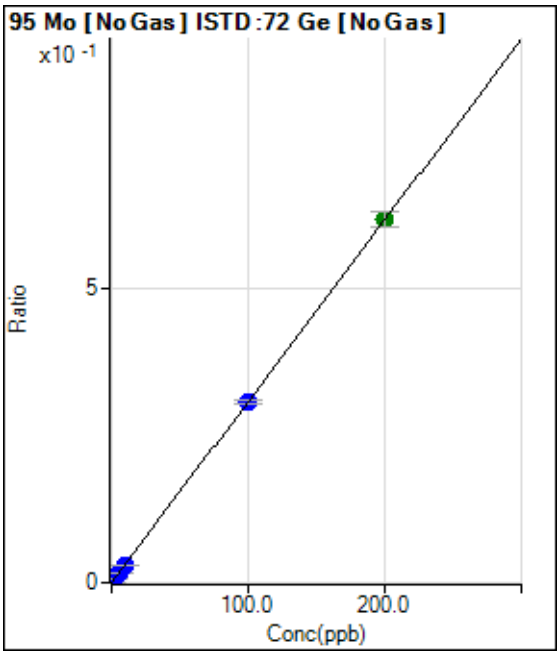
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.36	0.0013	P	7.1
2	☐	2.000	1.496	8769.70	0.0191	P	2.0
3	☐	5.000	4.237	23888.35	0.0517	P	4.1
4	☐	10.000	8.981	49879.94	0.1082	P	1.3
5	☐	100.000	95.627	504845.94	1.1395	P	1.5
6	☐	200.000	202.262	1050754.49	2.4088	A	0.8

y = 0.0119 * x + 0.0013
R = 0.9997
DL = 0.02289
BEC = 0.1082

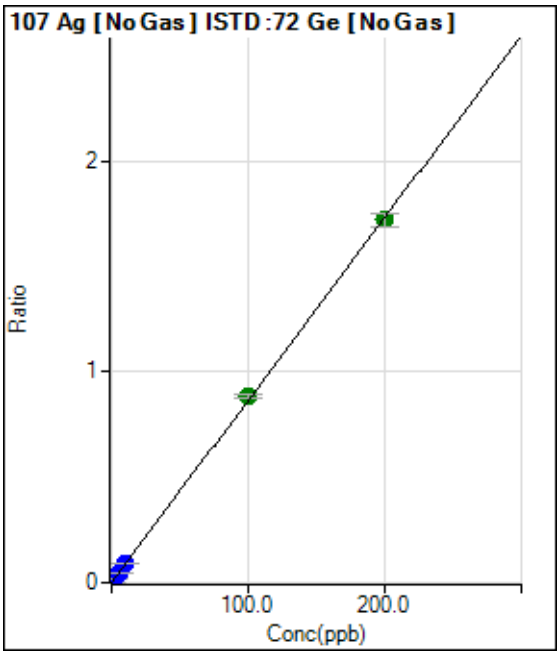
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0001	P	20.6
2	☐	2.000	1.958	12385.95	0.0061	P	5.4
3	☐	5.000	5.124	31791.50	0.0159	P	0.5
4	☐	10.000	9.934	61900.15	0.0307	P	1.5
5	☐	100.000	99.461	602044.85	0.3066	P	2.5
6	☐	200.000	200.270	1172972.54	0.6173	A	4.1

y = 0.0031 * x + 1.0245E-004
R = 1.0000
DL = 0.02053
BEC = 0.03324

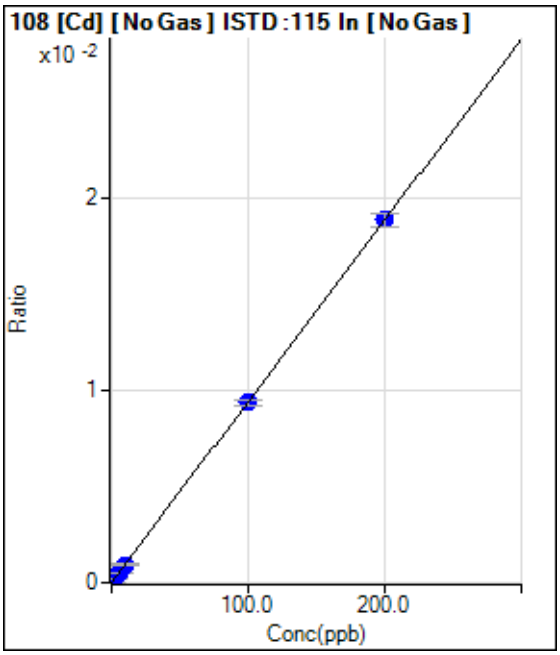
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0001	P	25.7
2	☐	2.000	2.018	35367.70	0.0175	P	5.6
3	☐	5.000	5.337	92491.04	0.0462	P	1.7
4	☐	10.000	10.524	183597.01	0.0911	P	3.5
5	☐	100.000	102.017	1733248.77	0.8828	A	2.2
6	☐	200.000	198.957	3270822.87	1.7216	A	3.4

y = 0.0087 * x + 6.3812E-005
R = 0.9999
DL = 0.00568
BEC = 0.007375

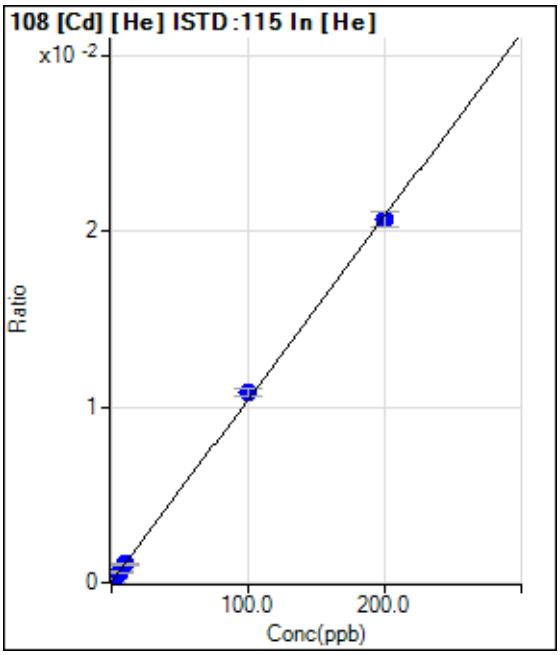
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	1.869	543.35	0.0002	P	11.3
3	☐	5.000	5.235	1506.79	0.0005	P	6.4
4	☐	10.000	9.943	2883.70	0.0009	P	6.9
5	☐	100.000	99.330	27545.65	0.0094	P	3.6
6	☐	200.000	200.334	54723.37	0.0189	P	3.9

y = 9.4185E-005 * x + 2.1833E-006
R = 1.0000
DL = 0.06024
BEC = 0.02318

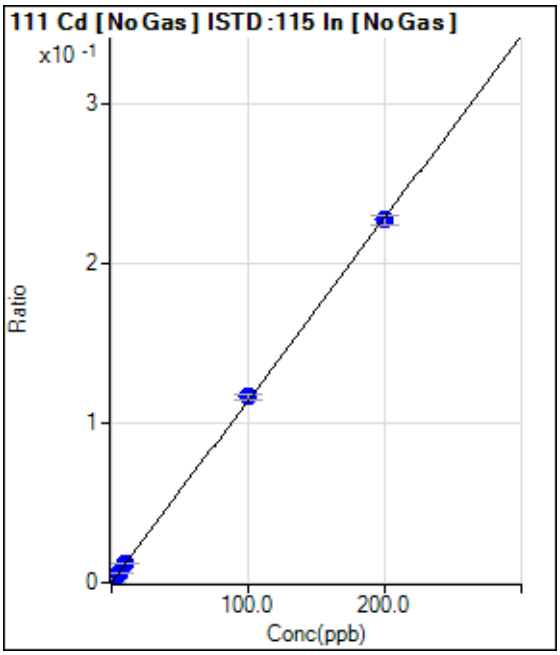
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.7
2	☐	2.000	1.960	203.34	0.0002	P	15.3
3	☐	5.000	5.386	533.35	0.0006	P	12.5
4	☐	10.000	10.046	973.39	0.0011	P	5.8
5	☐	100.000	103.853	9536.91	0.0108	P	3.7
6	☐	200.000	198.062	17902.38	0.0207	P	4.3

y = 1.0422E-004 * x + 1.8274E-005
R = 0.9997
DL = 0.4823
BEC = 0.1753

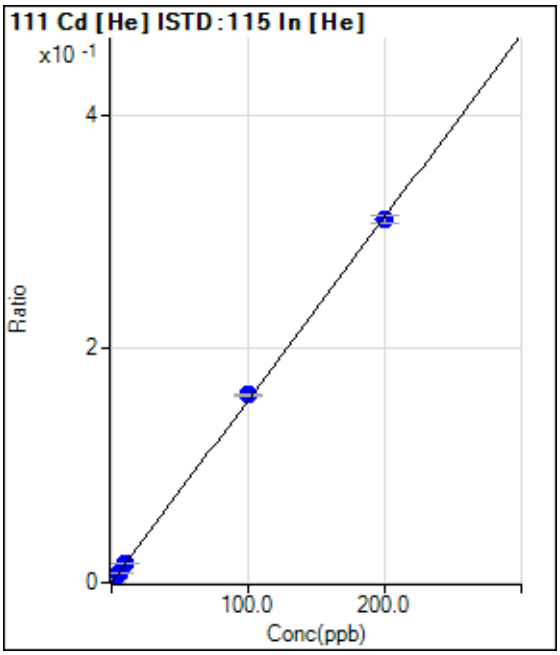
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.15	0.0000	P	-86.6
2	☐	2.000	2.001	6955.96	0.0023	P	8.1
3	☐	5.000	5.115	17754.35	0.0058	P	4.9
4	☐	10.000	10.299	36087.51	0.0117	P	1.2
5	☐	100.000	101.932	342407.85	0.1163	P	3.1
6	☐	200.000	199.016	658633.84	0.2271	P	2.7

y = 0.0011 * x - 2.3426E-006
R = 0.9999
DL = 0.005335
BEC = -0.002053

Weight: <None>
Min Conc: <None>

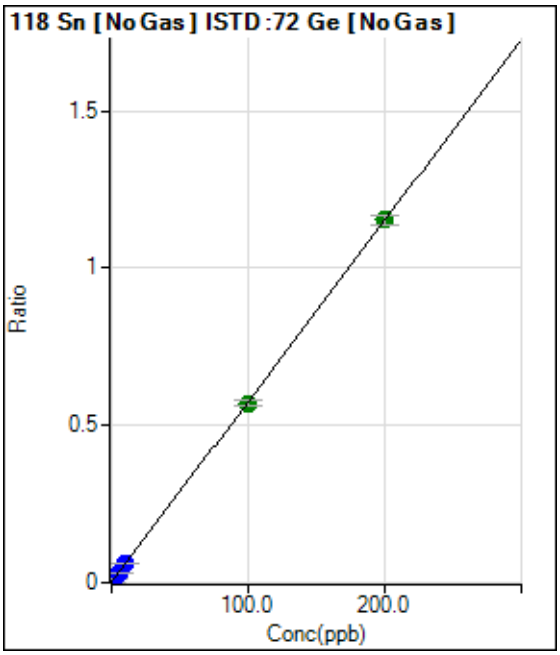


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.22	0.0000	P	99.5
2	☐	2.000	2.021	2908.52	0.0032	P	4.3
3	☐	5.000	5.232	7544.24	0.0082	P	4.7
4	☐	10.000	10.349	14805.16	0.0162	P	2.3
5	☐	100.000	102.722	141278.45	0.1606	P	1.3
6	☐	200.000	198.615	269083.87	0.3105	P	2.1

y = 0.0016 * x + 2.3266E-005
R = 0.9999
DL = 0.04442
BEC = 0.01488

Weight: <None>
Min Conc: <None>

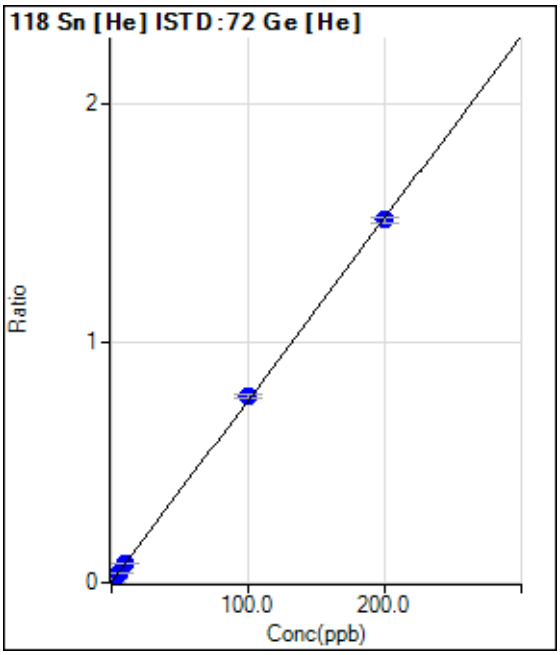
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2020.20	0.0010	P	10.0
2	☐	2.000	1.999	25264.53	0.0125	P	1.9
3	☐	5.000	5.115	60884.26	0.0304	P	1.4
4	☐	10.000	10.192	120158.52	0.0596	P	2.9
5	☐	100.000	99.190	1122193.63	0.5716	A	2.8
6	☐	200.000	200.393	2192002.89	1.1537	A	2.6

y = 0.0058 * x + 0.0010
R = 1.0000
DL = 0.05283
BEC = 0.1767

Weight: <None>
Min Conc: <None>

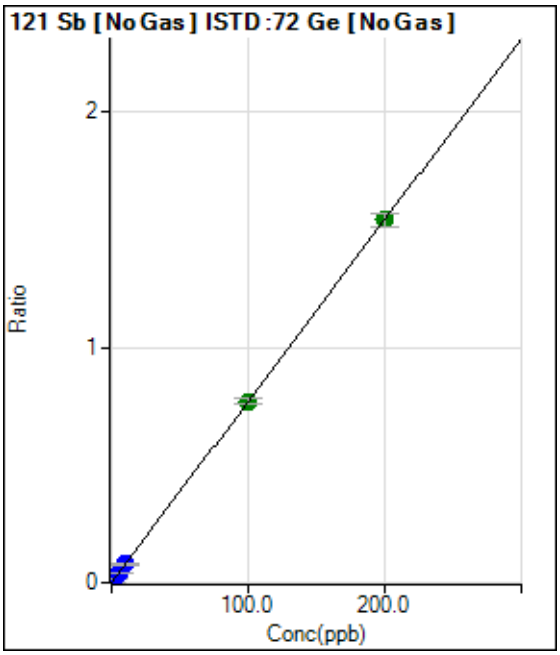


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	636.70	0.0014	P	17.4
2	☐	2.000	1.974	7528.97	0.0164	P	2.0
3	☐	5.000	5.110	18573.46	0.0402	P	2.0
4	☐	10.000	10.343	36862.01	0.0800	P	0.4
5	☐	100.000	101.817	343191.67	0.7747	P	2.0
6	☐	200.000	199.072	660089.94	1.5132	P	1.6

y = 0.0076 * x + 0.0014
R = 0.9999
DL = 0.09665
BEC = 0.1852

Weight: <None>
Min Conc: <None>

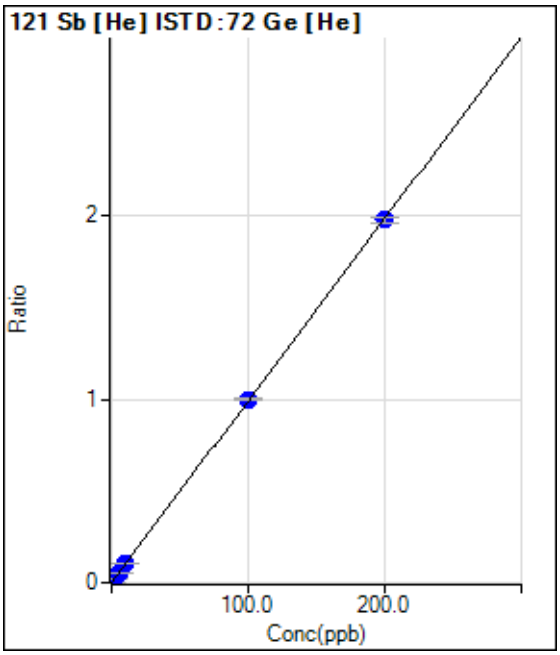
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.69	0.0002	P	16.7
2	☐	2.000	1.980	31230.98	0.0155	P	2.0
3	☐	5.000	5.105	79047.20	0.0395	P	1.7
4	☐	10.000	10.056	156424.26	0.0776	P	2.3
5	☐	100.000	99.783	1508347.32	0.7683	A	3.3
6	☐	200.000	200.103	2926705.17	1.5405	A	3.6

y = 0.0077 * x + 2.3379E-004
R = 1.0000
DL = 0.01522
BEC = 0.03037

Weight: <None>
Min Conc: <None>

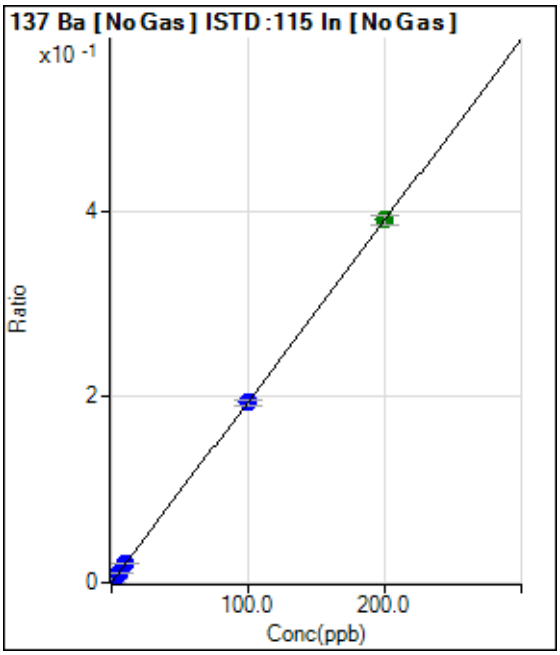


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.33	0.0003	P	11.8
2	☐	2.000	2.027	9360.17	0.0204	P	2.7
3	☐	5.000	5.077	23374.47	0.0506	P	1.0
4	☐	10.000	10.155	46535.98	0.1009	P	0.2
5	☐	100.000	100.947	443376.08	1.0008	P	1.5
6	☐	200.000	199.517	862648.16	1.9777	P	1.7

y = 0.0099 * x + 2.9454E-004
R = 1.0000
DL = 0.01055
BEC = 0.02972

Weight: <None>
Min Conc: <None>

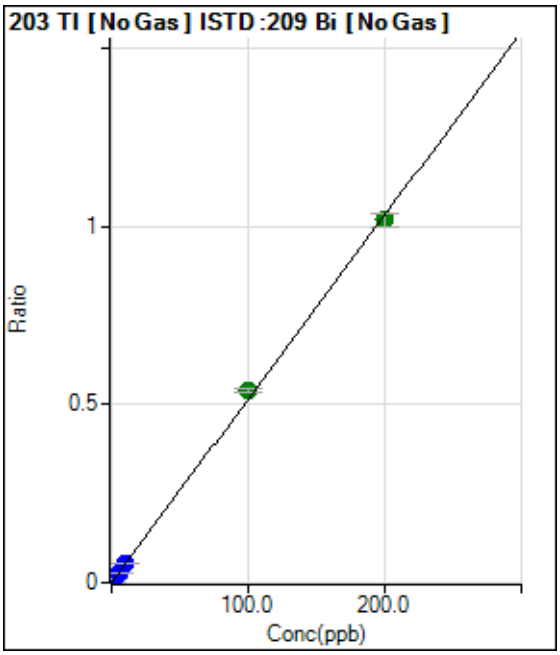
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0001	P	27.6
2	☐	2.000	2.006	12132.52	0.0040	P	3.6
3	☐	5.000	5.102	30476.07	0.0100	P	2.8
4	☐	10.000	10.151	60992.88	0.0199	P	0.5
5	☐	100.000	99.346	570445.41	0.1938	P	2.7
6	☐	200.000	200.317	1132954.83	0.3906	A	2.6

y = 0.0019 * x + 6.6741E-005
R = 1.0000
DL = 0.02834
BEC = 0.03423

Weight: <None>
Min Conc: <None>

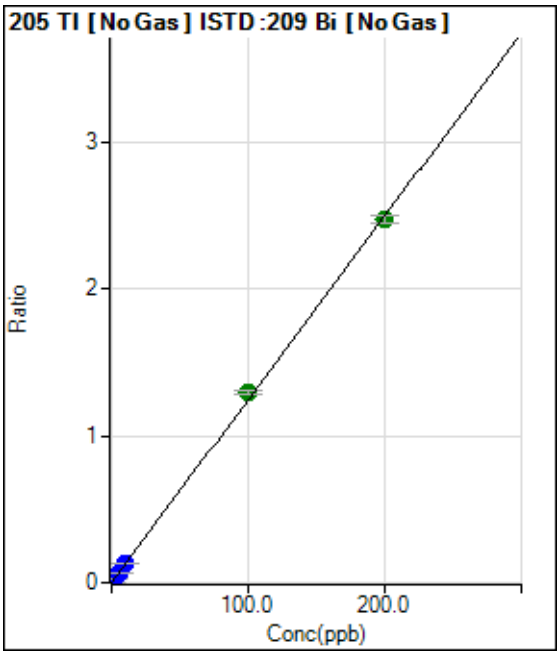


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	17.5
2	☐	2.000	1.839	28178.79	0.0095	P	5.1
3	☐	5.000	5.069	78099.81	0.0261	P	1.9
4	☐	10.000	10.224	156970.05	0.0527	P	1.1
5	☐	100.000	104.680	1551164.14	0.5394	A	2.2
6	☐	200.000	197.649	2924984.02	1.0184	A	3.7

y = 0.0052 * x + 2.1146E-005
R = 0.9996
DL = 0.002154
BEC = 0.004104

Weight: <None>
Min Conc: <None>

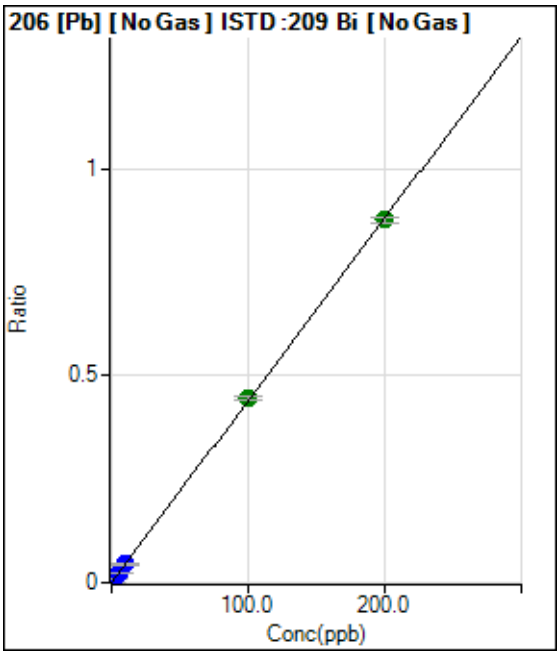
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0000	P	31.8
2	☐	2.000	1.814	67227.43	0.0227	P	5.3
3	☐	5.000	5.137	191454.63	0.0641	P	2.3
4	☐	10.000	10.141	376629.31	0.1264	P	0.7
5	☐	100.000	103.768	3719429.63	1.2933	A	2.2
6	☐	200.000	198.107	7092378.64	2.4691	A	2.2

y = 0.0125 * x + 4.8970E-005
R = 0.9997
DL = 0.003745
BEC = 0.003929

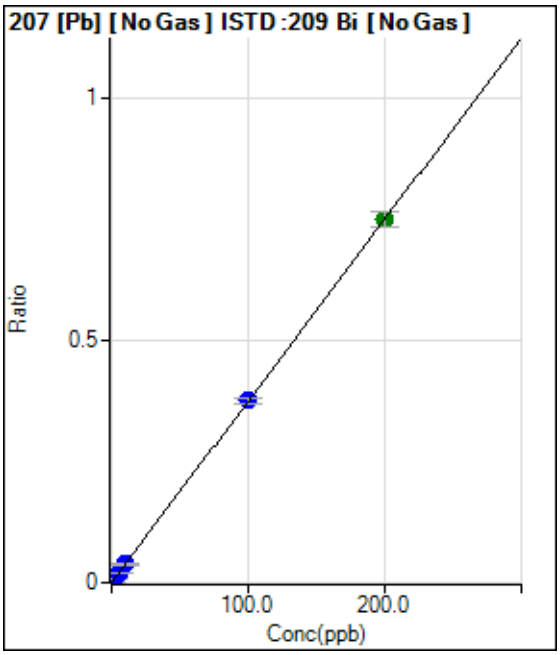
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	260.01	0.0001	P	16.9
2	☐	2.000	1.908	25195.72	0.0085	P	4.9
3	☐	5.000	4.998	65997.67	0.0221	P	1.8
4	☐	10.000	10.044	131942.11	0.0443	P	1.1
5	☐	100.000	101.424	1284297.25	0.4466	A	1.5
6	☐	200.000	199.287	2520234.70	0.8774	A	1.7

y = 0.0044 * x + 8.6832E-005
R = 1.0000
DL = 0.01002
BEC = 0.01973

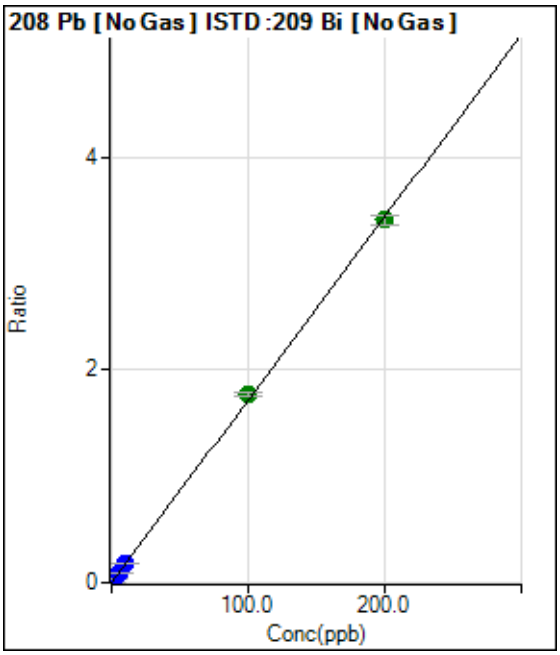
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	17.3
2	☐	2.000	1.997	22400.44	0.0075	P	5.3
3	☐	5.000	4.999	56203.26	0.0188	P	2.1
4	☐	10.000	10.050	112454.04	0.0378	P	1.0
5	☐	100.000	100.234	1081390.84	0.3760	P	2.6
6	☐	200.000	199.880	2153640.75	0.7498	A	4.1

y = 0.0038 * x + 5.9102E-005
R = 1.0000
DL = 0.008155
BEC = 0.01576

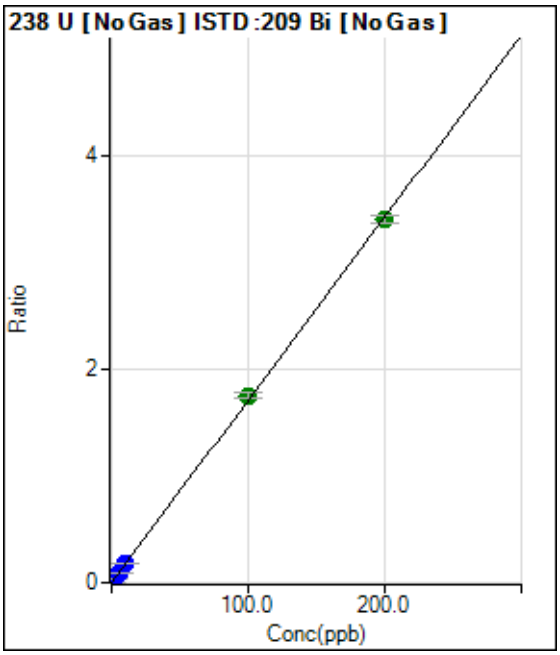
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	910.03	0.0003	P	4.3
2	☐	2.000	1.967	101154.68	0.0341	P	5.0
3	☐	5.000	5.076	261375.48	0.0875	P	1.9
4	☐	10.000	10.145	519871.18	0.1745	P	0.2
5	☐	100.000	102.823	5079118.88	1.7661	A	2.1
6	☐	200.000	198.580	9796911.11	3.4106	A	2.3

y = 0.0172 * x + 3.0419E-004
R = 0.9999
DL = 0.002296
BEC = 0.01771

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.35	0.0001	P	22.2
2	☐	2.000	1.983	100876.42	0.0340	P	2.8
3	☐	5.000	5.050	258025.58	0.0863	P	1.2
4	☐	10.000	10.090	513440.02	0.1724	P	0.5
5	☐	100.000	102.500	5032904.93	1.7502	A	3.0
6	☐	200.000	198.744	9748761.52	3.3934	A	2.1

y = 0.0171 * x + 1.2158E-004

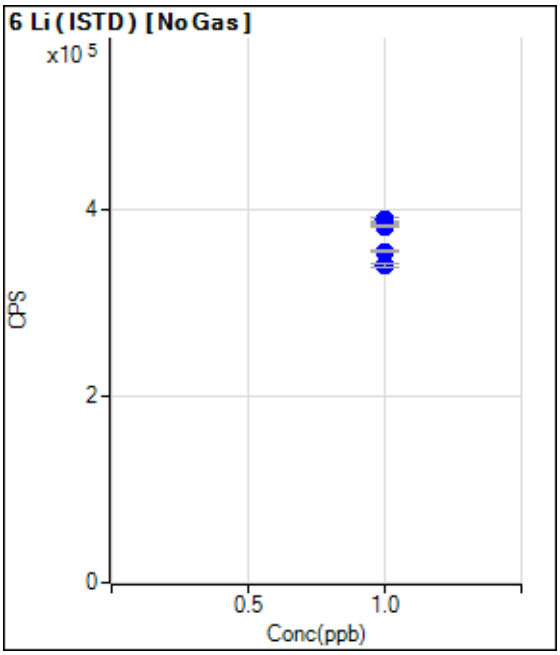
R = 0.9999

DL = 0.004753

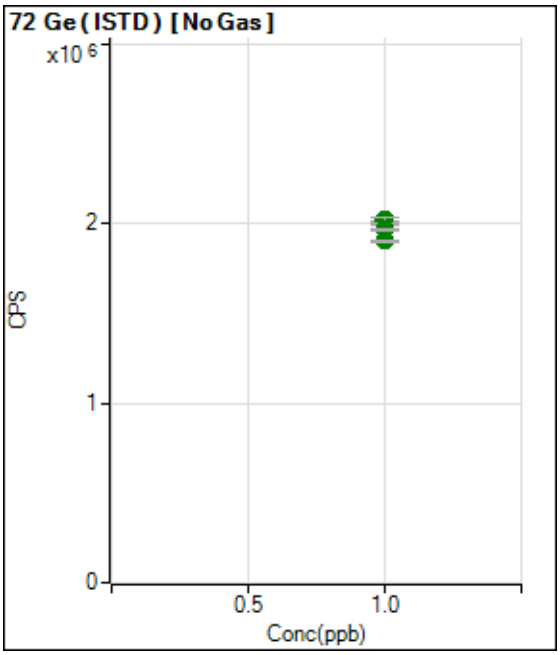
BEC = 0.007121

Weight: <None>

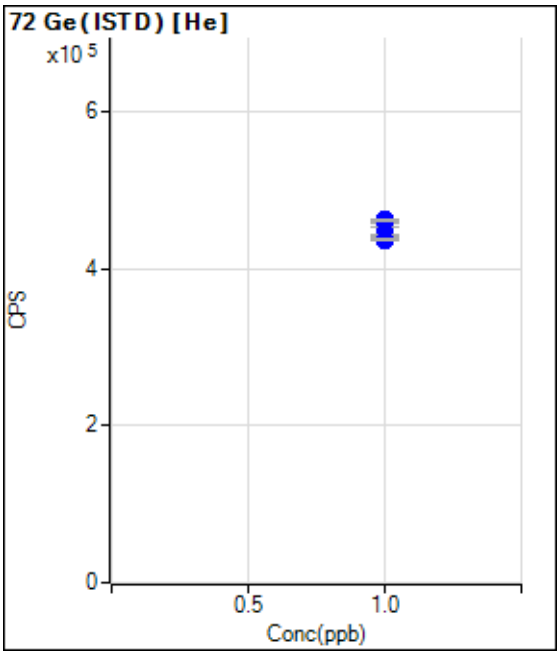
Min Conc: <None>



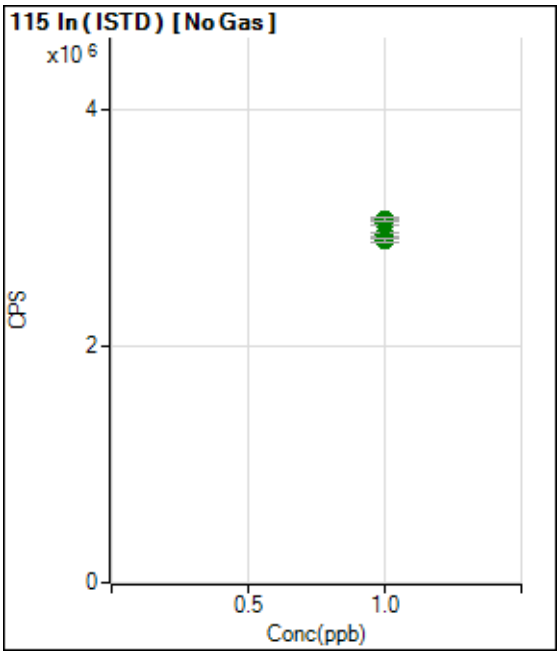
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		389235.03		P	1.0
2	☐	1.000		387190.10		P	0.7
3	☐	1.000		384263.82		P	0.4
4	☐	1.000		381948.86		P	0.6
5	☐	1.000		355328.88		P	0.5
6	☐	1.000		339741.77		P	1.4



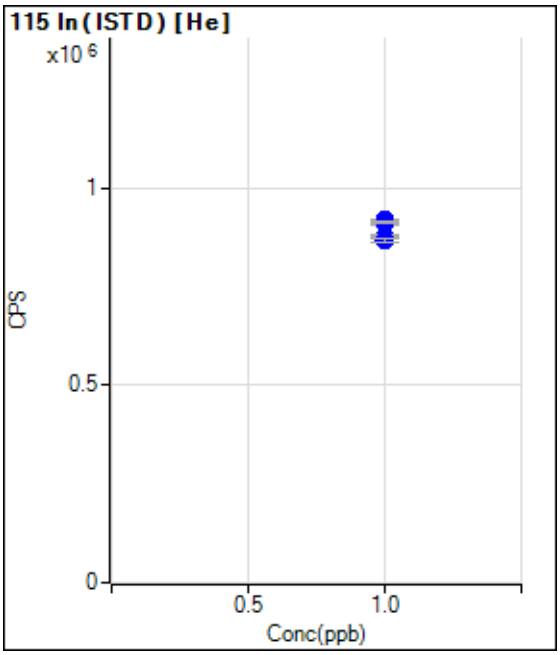
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1990980.49		A	2.3
2	☐	1.000		2018581.64		A	1.5
3	☐	1.000		2000128.67		A	0.9
4	☐	1.000		2015246.58		A	1.4
5	☐	1.000		1963582.10		A	0.9
6	☐	1.000		1900051.75		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		452820.38		P	0.4
2	☐	1.000		459110.96		P	0.4
3	☐	1.000		461849.16		P	0.3
4	☐	1.000		461014.96		P	0.9
5	☐	1.000		443028.04		P	0.6
6	☐	1.000		436220.41		P	0.6

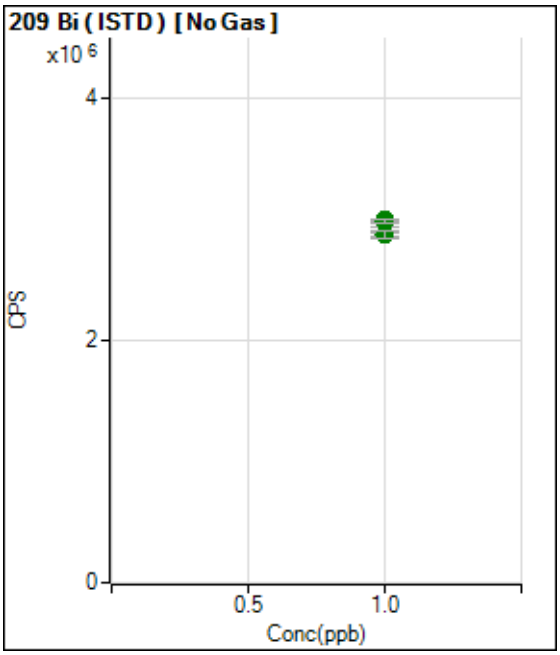


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3048786.57		A	1.1
2	☐	1.000		3051156.15		A	1.6
3	☐	1.000		3043721.74		A	1.1
4	☐	1.000		3071457.42		A	0.9
5	☐	1.000		2944672.78		A	1.4
6	☐	1.000		2900792.96		A	1.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		909989.35		P	0.4
2	☐	1.000		913833.22		P	0.6
3	☐	1.000		919615.22		P	0.8
4	☐	1.000		913738.71		P	0.3
5	☐	1.000		879581.25		P	0.6
6	☐	1.000		866544.36		P	0.9

Calibration for 173_ICV.d



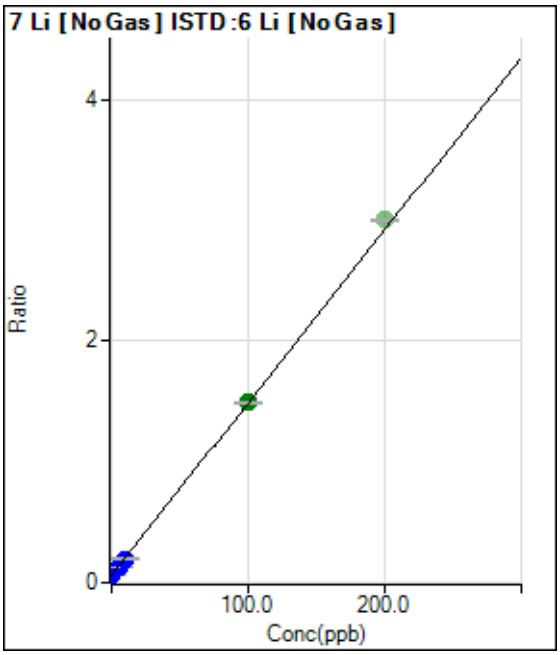
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2992076.31		A	0.8
2	☐	1.000		2969288.29		A	2.0
3	☐	1.000		2988329.64		A	0.6
4	☐	1.000		2978506.73		A	1.4
5	☐	1.000		2876323.29		A	1.2
6	☐	1.000		2873136.94		A	1.9

Calibration for 088_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	081CALB.d	CAL BLK	5/15/2024 2:09:24 PM
2	082CALS.d	2/10/200	5/15/2024 2:11:19 PM
3	083CALS.d	5/25/500	5/15/2024 2:13:15 PM
4	084CALS.d	10/50/100	5/15/2024 2:15:10 PM
5	085CALS.d	100/500/10K	5/15/2024 2:17:05 PM
6	086CALS.d	200/1000/20K	5/15/2024 2:18:54 PM

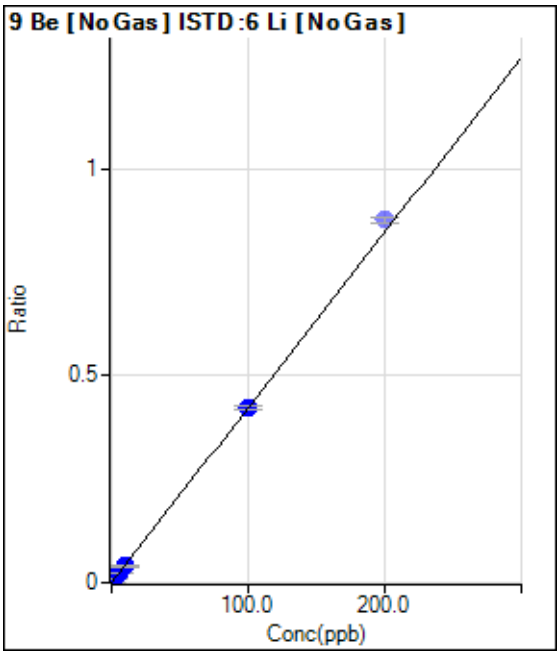
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30847.12	0.0609	P	1.0
2	☐	2.000	1.987	44929.63	0.0893	P	1.1
3	☐	5.000	5.054	65978.49	0.1331	P	0.5
4	☐	10.000	9.603	96349.96	0.1980	P	1.2
5	☐	100.000	100.037	677598.95	1.4894	A	1.3
6	☑	200.000		1302056.13	3.0023	A	0.6

y = 0.0143 * x + 0.0609
R = 1.0000
DL = 0.1251
BEC = 4.264

Weight: <None>
Min Conc: <None>

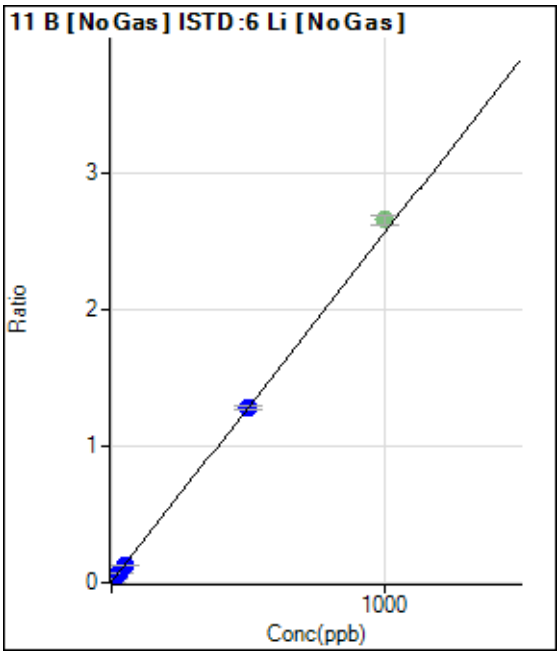


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	125.0
2	☐	2.000	2.045	4359.04	0.0087	P	1.8
3	☐	5.000	5.017	10527.35	0.0212	P	1.2
4	☐	10.000	9.345	19231.57	0.0395	P	1.3
5	☐	100.000	100.064	192484.36	0.4231	P	1.4
6	☑	200.000		380113.91	0.8765	P	1.5

y = 0.0042 * x + 1.6388E-005
R = 1.0000
DL = 0.01454
BEC = 0.003876

Weight: <None>
Min Conc: <None>

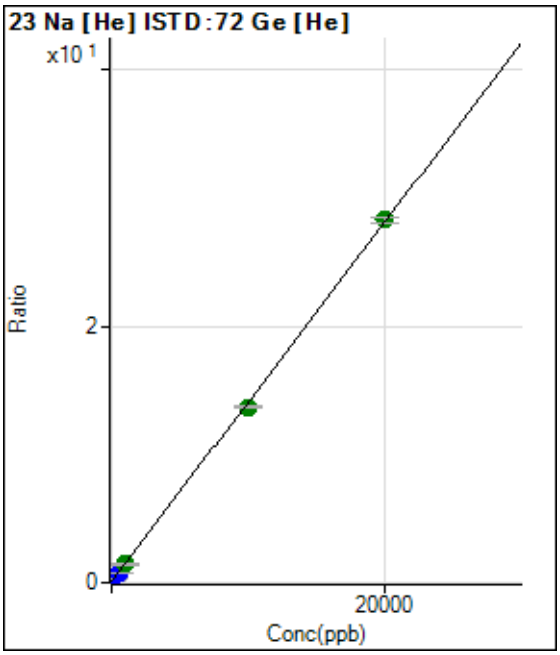
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3323.75	0.0066	P	4.3
2	☐	10.000	9.516	15531.96	0.0309	P	2.2
3	☐	25.000	24.390	34138.09	0.0688	P	2.9
4	☐	50.000	46.285	60703.69	0.1248	P	2.0
5	☐	500.000	500.412	584363.93	1.2845	P	1.7
6	☑	1000.000		1152290.63	2.6575	A	2.8

y = 0.0026 * x + 0.0066
R = 1.0000
DL = 0.3334
BEC = 2.569

Weight: <None>
Min Conc: <None>

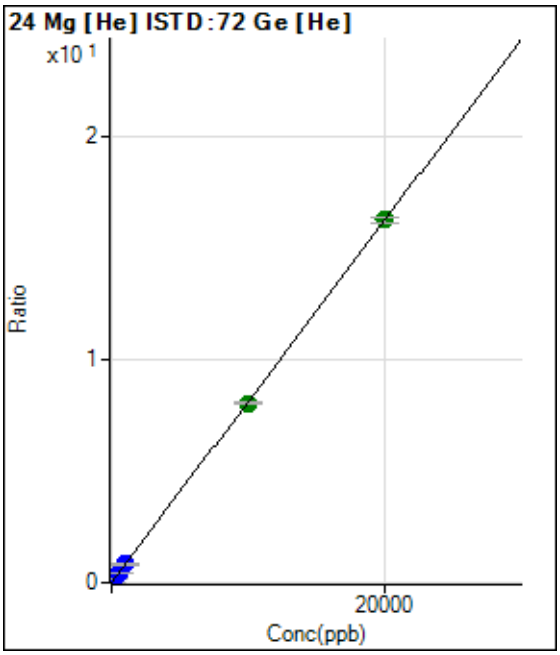


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50725.44	0.0817	P	1.4
2	☐	200.000	211.499	232965.33	0.3782	P	2.2
3	☐	500.000	524.699	504848.64	0.8171	P	1.3
4	☐	1000.000	959.406	861160.04	1.4264	A	3.4
5	☐	10000.000	9717.461	8069756.13	13.7012	A	0.6
6	☐	20000.000	20142.567	16397609.76	28.3125	A	1.5

y = 0.0014 * x + 0.0817
R = 0.9999
DL = 2.449
BEC = 58.31

Weight: <None>
Min Conc: <None>

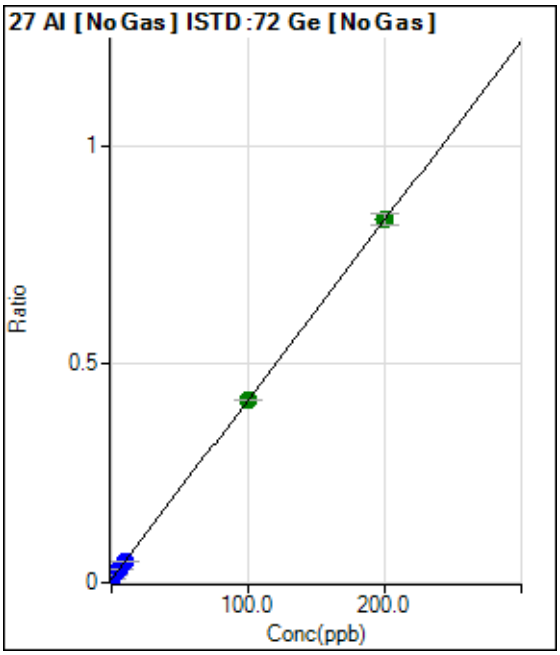
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1130.07	0.0018	P	11.5
2	☐	200.000	219.309	110823.94	0.1799	P	2.0
3	☐	500.000	540.624	272341.30	0.4408	P	2.4
4	☐	1000.000	1011.828	497103.34	0.8234	P	1.6
5	☐	10000.000	9927.266	4748633.26	8.0623	A	1.3
6	☐	20000.000	20034.567	9423055.69	16.2690	A	1.8

y = 8.1195E-004 * x + 0.0018
R = 1.0000
DL = 0.7741
BEC = 2.244

Weight: <None>
Min Conc: <None>

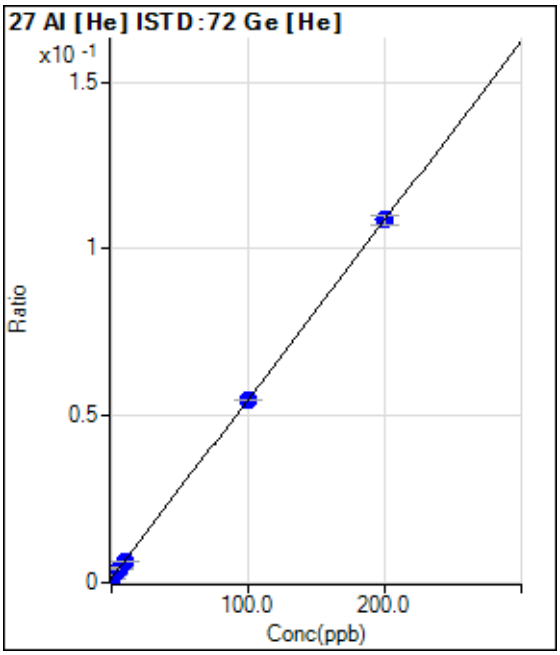


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22191.34	0.0081	P	0.9
2	☐	2.000	2.033	45256.96	0.0164	P	2.9
3	☐	5.000	5.063	78514.50	0.0288	P	1.7
4	☐	10.000	9.814	130615.12	0.0483	P	2.8
5	☐	100.000	99.518	1076761.42	0.4165	A	0.3
6	☐	200.000	200.248	2100453.93	0.8300	A	3.3

y = 0.0041 * x + 0.0081
R = 1.0000
DL = 0.05302
BEC = 1.965

Weight: <None>
Min Conc: <None>

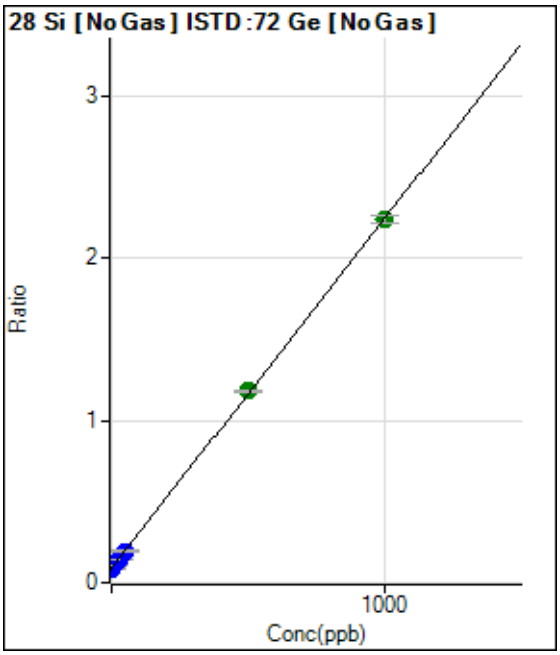
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	790.04	0.0013	P	10.6
2	☐	2.000	1.742	1360.09	0.0022	P	2.3
3	☐	5.000	5.361	2563.61	0.0041	P	10.0
4	☐	10.000	9.021	3690.56	0.0061	P	2.0
5	☐	100.000	99.663	32234.31	0.0547	P	0.9
6	☐	200.000	200.211	62928.93	0.1087	P	2.5

y = 5.3635E-004 * x + 0.0013
R = 1.0000
DL = 0.758
BEC = 2.375

Weight: <None>
Min Conc: <None>

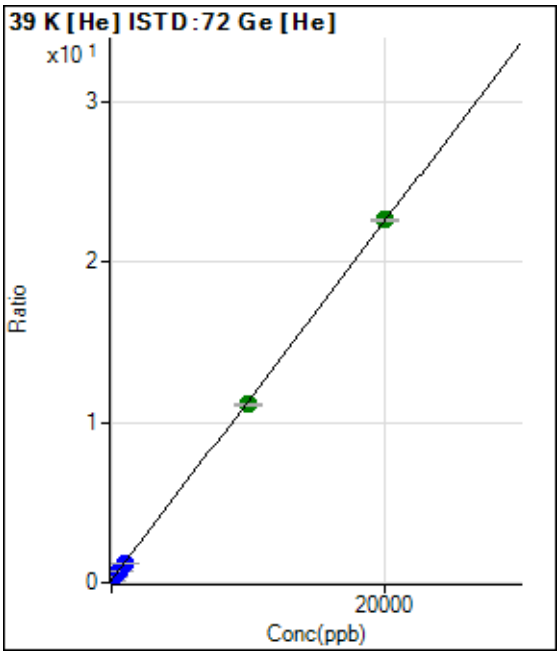


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243306.53	0.0885	P	2.1
2	☐	10.000	9.885	302724.70	0.1098	P	1.6
3	☐	25.000	25.644	391181.11	0.1437	P	1.6
4	☐	50.000	49.066	524607.83	0.1942	P	2.7
5	☐	500.000	506.347	3048987.14	1.1795	A	1.8
6	☐	1000.000	996.858	5660481.79	2.2365	A	2.2

y = 0.0022 * x + 0.0885
R = 1.0000
DL = 2.643
BEC = 41.05

Weight: <None>
Min Conc: <None>

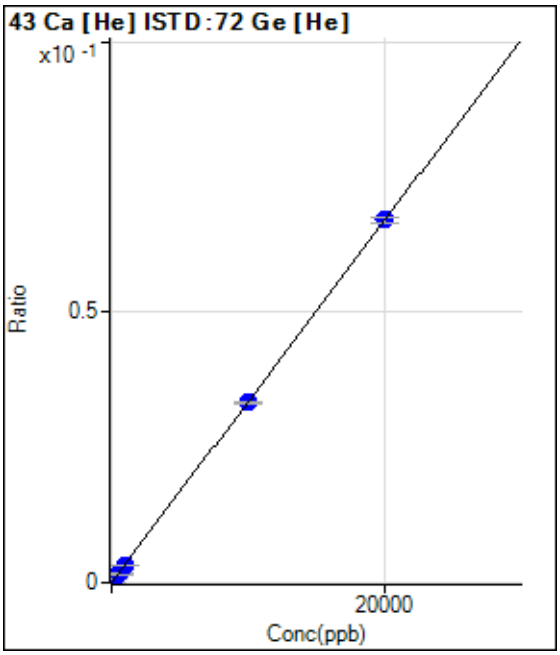
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94639.48	0.1525	P	1.8
2	☐	200.000	212.907	240800.49	0.3909	P	1.9
3	☐	500.000	517.808	452440.56	0.7323	P	1.3
4	☐	1000.000	964.638	744151.63	1.2326	P	2.3
5	☐	10000.000	9808.106	6558171.15	11.1351	A	0.6
6	☐	20000.000	20097.141	13122628.97	22.6563	A	0.5

y = 0.0011 * x + 0.1525
R = 0.9999
DL = 7.161
BEC = 136.2

Weight: <None>
Min Conc: <None>

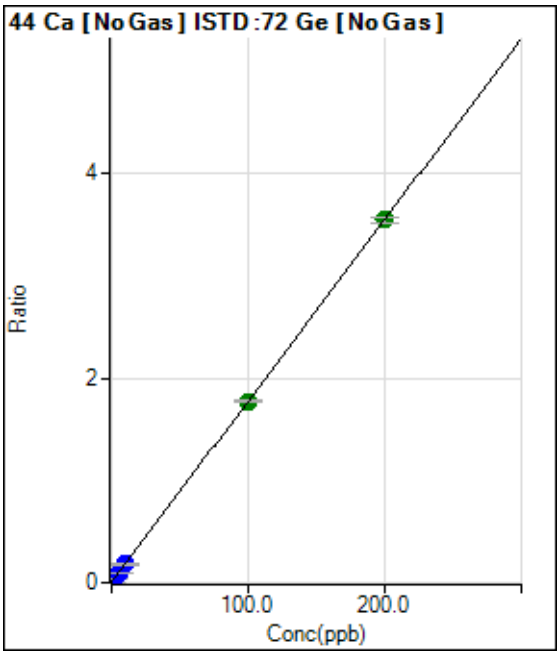


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	66.1
2	☐	200.000	181.109	396.68	0.0006	P	14.2
3	☐	500.000	488.222	1033.39	0.0017	P	21.5
4	☐	1000.000	947.421	1936.84	0.0032	P	9.1
5	☐	10000.000	9933.726	19610.90	0.0333	P	1.9
6	☐	20000.000	20036.250	38871.79	0.0671	P	1.6

y = 3.3479E-006 * x + 3.7670E-005
R = 1.0000
DL = 22.32
BEC = 11.25

Weight: <None>
Min Conc: <None>

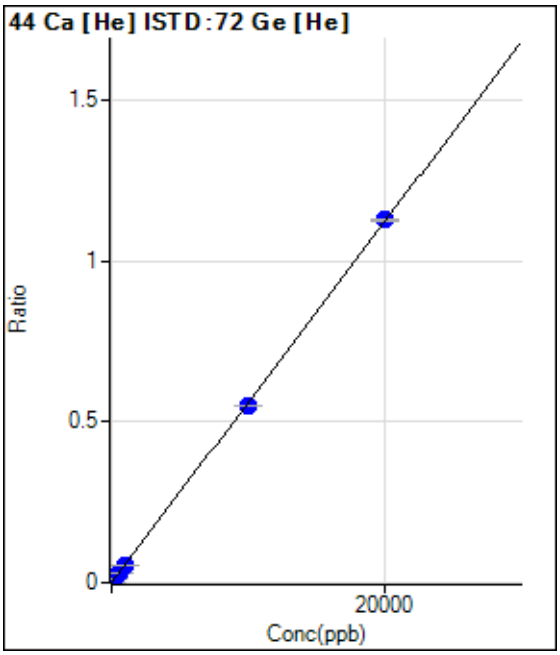
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10577.57	0.0038	P	2.0
2	☐	2.000	2.085	112536.94	0.0408	P	1.6
3	☐	5.000	5.181	260395.67	0.0957	P	3.0
4	☐	10.000	9.907	484689.88	0.1794	P	4.3
5	☐	100.000	99.941	4588865.04	1.7752	A	0.5
6	☐	200.000	200.029	8983115.70	3.5491	A	1.4

y = 0.0177 * x + 0.0038
R = 1.0000
DL = 0.01289
BEC = 0.217

Weight: <None>
Min Conc: <None>

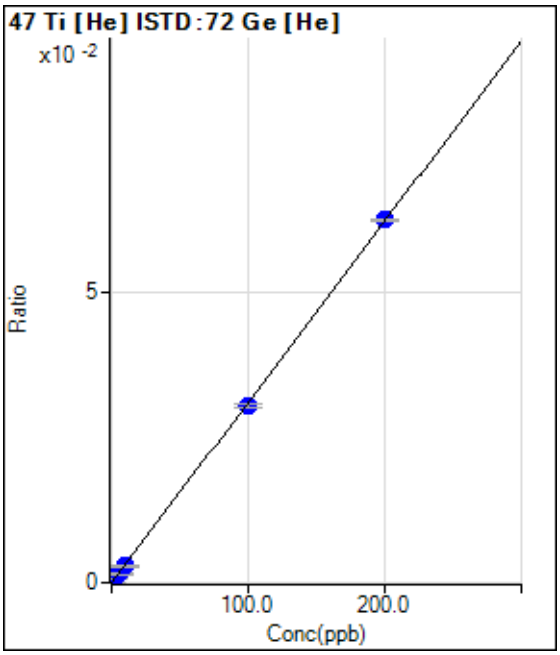


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.01	0.0005	P	10.5
2	☐	200.000	209.218	7562.24	0.0123	P	2.2
3	☐	500.000	508.518	17965.27	0.0291	P	2.6
4	☐	1000.000	944.645	32331.52	0.0536	P	2.1
5	☐	10000.000	9779.810	323636.17	0.5495	P	0.6
6	☐	20000.000	20112.557	654204.99	1.1295	P	0.4

y = 5.6131E-005 * x + 5.3153E-004
R = 0.9999
DL = 2.989
BEC = 9.469

Weight: <None>
Min Conc: <None>

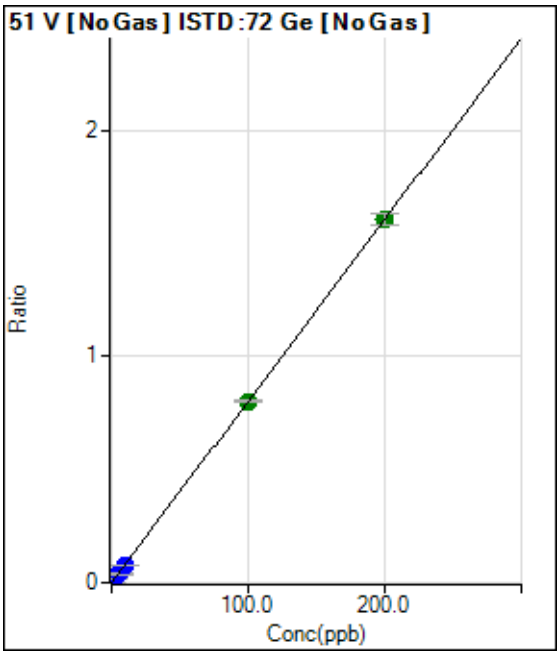
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	86.6
2	☐	2.000	1.938	383.35	0.0006	P	19.4
3	☐	5.000	4.790	930.05	0.0015	P	12.9
4	☐	10.000	9.017	1700.14	0.0028	P	14.8
5	☐	100.000	98.101	17921.94	0.0304	P	2.0
6	☐	200.000	201.005	36097.82	0.0623	P	0.8

y = 3.0996E-004 * x + 2.1585E-005
R = 0.9999
DL = 0.1809
BEC = 0.06964

Weight: <None>
Min Conc: <None>

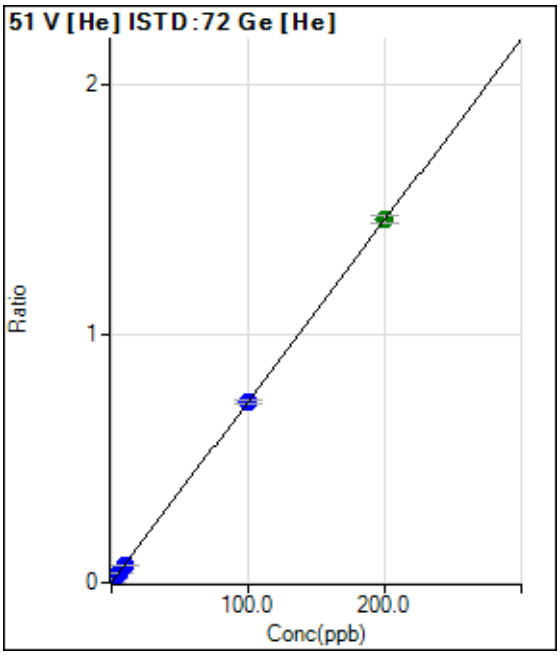


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2905.75	-0.0011	P	-151.7
2	☐	2.000	1.990	41163.74	0.0149	P	13.4
3	☐	5.000	4.849	103147.78	0.0379	P	5.4
4	☐	10.000	9.404	201276.22	0.0745	P	4.0
5	☐	100.000	99.993	2074408.19	0.8025	A	1.8
6	☐	200.000	200.037	4065568.08	1.6065	A	3.3

y = 0.0080 * x - 0.0011
R = 1.0000
DL = 0.607
BEC = -0.1334

Weight: <None>
Min Conc: <None>

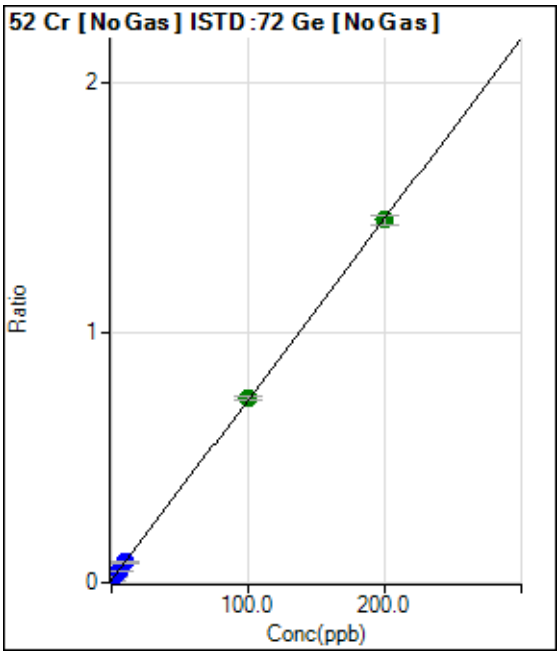
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	520.29	0.0008	P	125.6
2	☐	2.000	2.084	9862.94	0.0160	P	1.3
3	☐	5.000	4.890	22513.88	0.0364	P	4.8
4	☐	10.000	9.272	41256.82	0.0683	P	3.1
5	☐	100.000	99.590	427576.88	0.7260	P	1.4
6	☐	200.000	200.243	844986.66	1.4588	A	2.1

y = 0.0073 * x + 8.3218E-004
R = 1.0000
DL = 0.4306
BEC = 0.1143

Weight: <None>
Min Conc: <None>

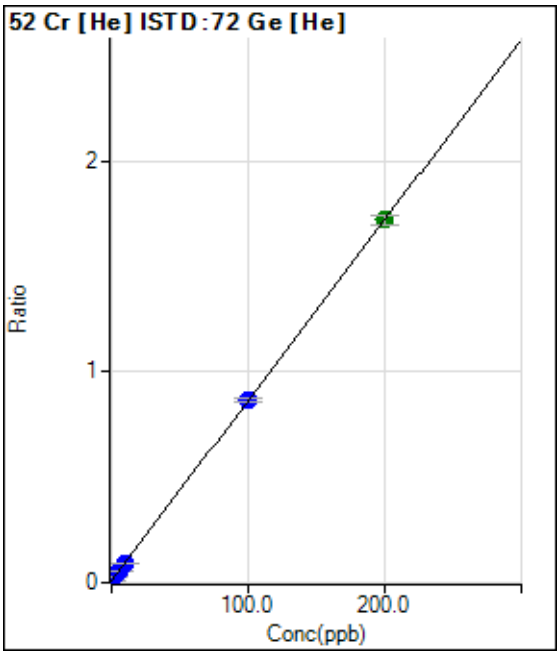


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28489.88	0.0104	P	1.5
2	☐	2.000	2.118	70792.26	0.0257	P	3.2
3	☐	5.000	5.258	131681.31	0.0484	P	1.5
4	☐	10.000	9.898	221317.83	0.0819	P	3.7
5	☐	100.000	100.850	1911827.36	0.7396	A	1.9
6	☐	200.000	199.573	3678564.95	1.4535	A	2.6

y = 0.0072 * x + 0.0104
R = 1.0000
DL = 0.06378
BEC = 1.432

Weight: <None>
Min Conc: <None>

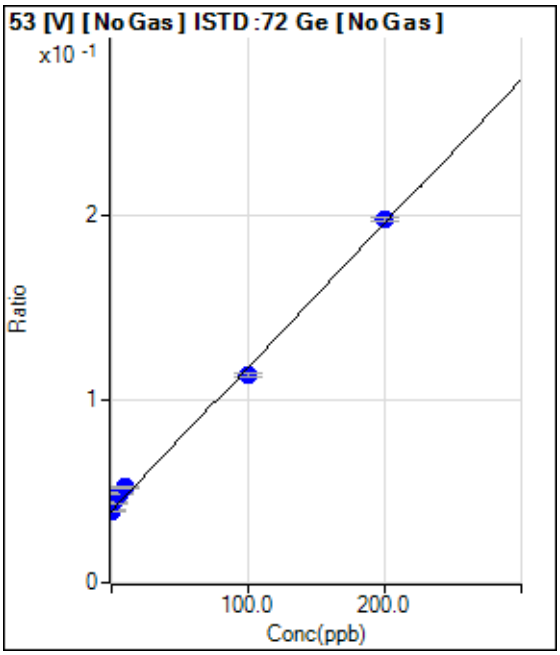
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5901.36	0.0095	P	3.4
2	☐	2.000	2.110	16967.42	0.0275	P	1.1
3	☐	5.000	5.144	33036.86	0.0535	P	1.3
4	☐	10.000	9.622	55385.56	0.0917	P	3.3
5	☐	100.000	99.989	508960.62	0.8641	P	1.6
6	☐	200.000	200.020	995783.58	1.7191	A	2.4

y = 0.0085 * x + 0.0095
R = 1.0000
DL = 0.1137
BEC = 1.112

Weight: <None>
Min Conc: <None>

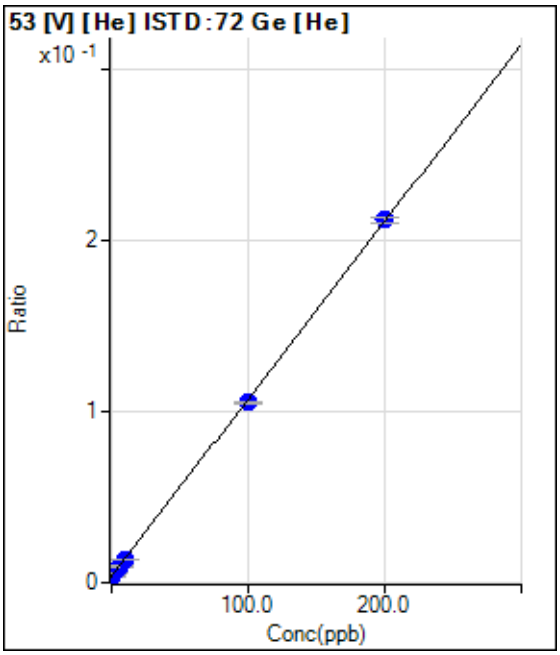


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	107899.41	0.0392	P	1.3
2	☐	2.000	6.140	121464.77	0.0440	P	2.4
3	☐	5.000	11.888	132162.43	0.0486	P	2.1
4	☐	10.000	16.481	140915.88	0.0522	P	3.1
5	☐	100.000	94.345	292835.51	0.1133	P	2.4
6	☐	200.000	202.290	501224.02	0.1980	P	1.1

y = 7.8500E-004 * x + 0.0392
R = 0.9985
DL = 1.996
BEC = 49.97

Weight: <None>
Min Conc: <None>

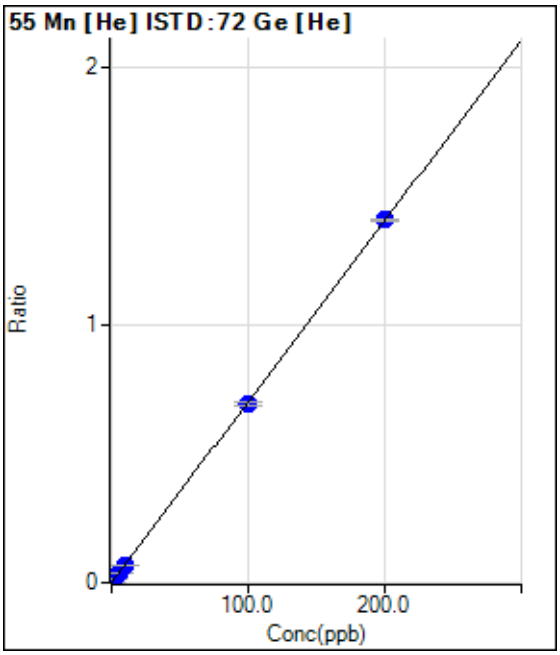
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2370.26	0.0038	P	8.6
2	☐	2.000	2.144	3723.90	0.0060	P	1.1
3	☐	5.000	5.521	5898.05	0.0095	P	4.5
4	☐	10.000	9.656	8352.69	0.0138	P	2.4
5	☐	100.000	97.899	62043.96	0.1053	P	1.4
6	☐	200.000	201.053	122968.82	0.2123	P	1.3

y = 0.0010 * x + 0.0038
R = 0.9999
DL = 0.956
BEC = 3.684

Weight: <None>
Min Conc: <None>

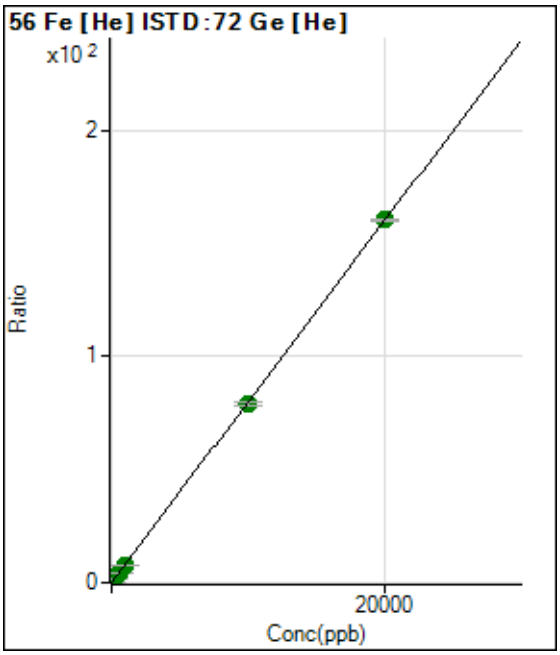


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0003	P	12.5
2	☐	2.000	2.012	8923.08	0.0145	P	5.6
3	☐	5.000	5.046	22114.83	0.0358	P	3.1
4	☐	10.000	9.466	40363.14	0.0669	P	1.0
5	☐	100.000	98.673	408548.76	0.6936	P	2.4
6	☐	200.000	200.689	816902.02	1.4104	P	0.6

y = 0.0070 * x + 3.4886E-004
R = 1.0000
DL = 0.01855
BEC = 0.04965

Weight: <None>
Min Conc: <None>

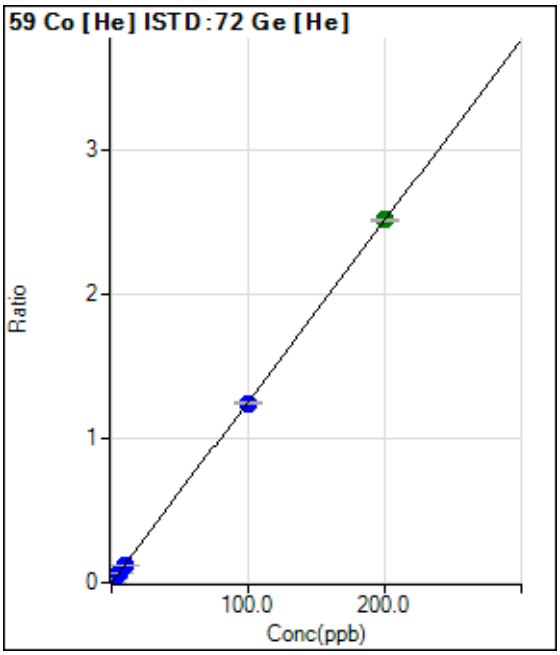
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19030.18	0.0307	P	1.8
2	☐	200.000	213.572	1070873.06	1.7383	A	3.3
3	☐	500.000	516.403	2569869.34	4.1597	A	1.6
4	☐	1000.000	947.938	4594405.56	7.6101	A	2.3
5	☐	10000.000	9885.721	46574515.97	79.0743	A	1.5
6	☐	20000.000	20059.197	92917235.28	160.4188	A	0.8

y = 0.0080 * x + 0.0307
R = 1.0000
DL = 0.2014
BEC = 3.835

Weight: <None>
Min Conc: <None>

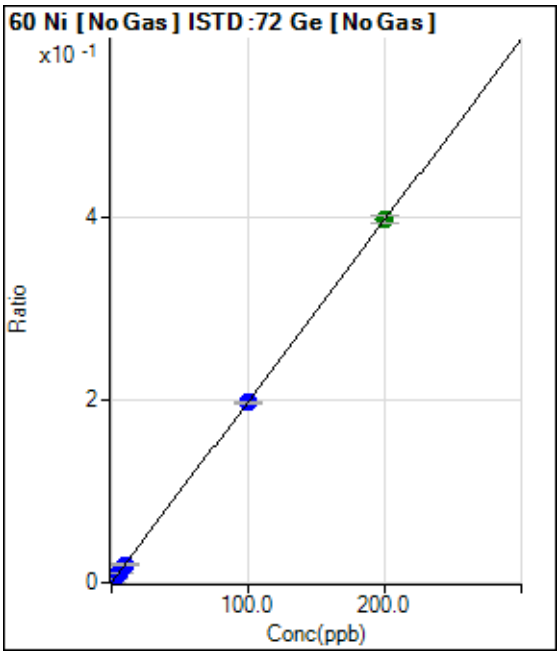


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.2
2	☐	2.000	2.042	15806.06	0.0257	P	1.8
3	☐	5.000	5.052	39189.85	0.0634	P	0.8
4	☐	10.000	9.665	73246.28	0.1213	P	4.6
5	☐	100.000	99.241	733713.40	1.2457	P	1.2
6	☐	200.000	200.394	1456942.37	2.5154	A	0.5

y = 0.0126 * x + 2.6812E-005
R = 1.0000
DL = 0.002189
BEC = 0.002136

Weight: <None>
Min Conc: <None>

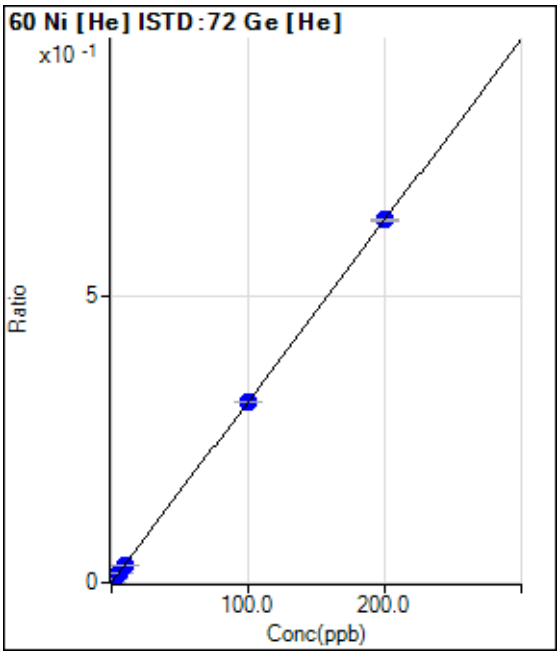
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	380.01	0.0001	P	10.3
2	☐	2.000	2.064	11661.92	0.0042	P	7.1
3	☐	5.000	5.276	28840.86	0.0106	P	4.1
4	☐	10.000	9.974	53782.84	0.0199	P	4.1
5	☐	100.000	99.506	510276.40	0.1974	P	1.5
6	☐	200.000	200.241	1005047.02	0.3971	A	2.1

y = 0.0020 * x + 1.3795E-004
R = 1.0000
DL = 0.02151
BEC = 0.06959

Weight: <None>
Min Conc: <None>

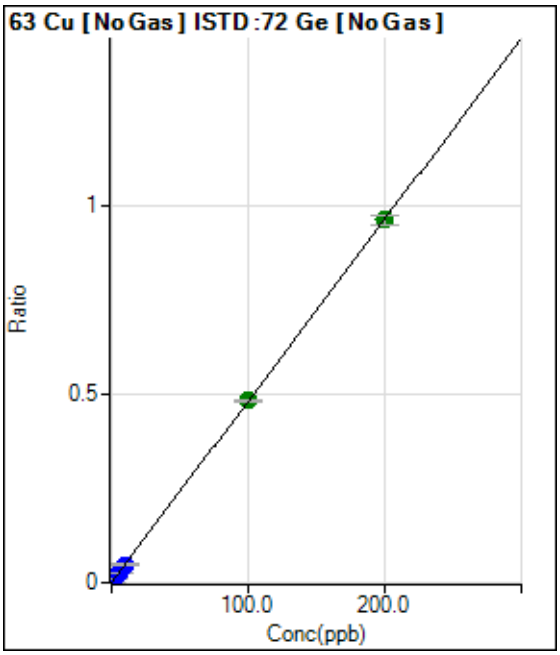


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0002	P	32.4
2	☐	2.000	1.971	3947.30	0.0064	P	5.6
3	☐	5.000	5.013	9897.05	0.0160	P	1.9
4	☐	10.000	9.565	18359.30	0.0304	P	2.8
5	☐	100.000	99.543	185414.41	0.3148	P	0.2
6	☐	200.000	200.250	366704.94	0.6331	P	0.8

y = 0.0032 * x + 1.7709E-004
R = 1.0000
DL = 0.05441
BEC = 0.05603

Weight: <None>
Min Conc: <None>

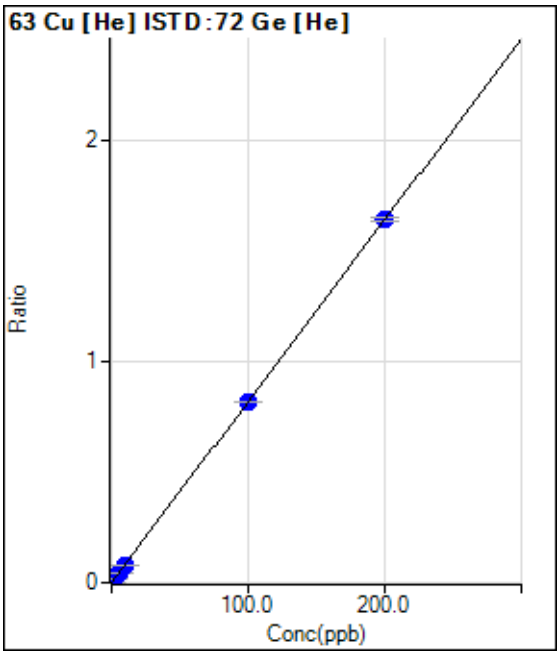
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	983.39	0.0004	P	8.5
2	☐	2.000	2.066	28453.31	0.0103	P	4.5
3	☐	5.000	5.236	69698.40	0.0256	P	2.9
4	☐	10.000	9.888	129798.31	0.0480	P	2.7
5	☐	100.000	100.188	1249975.29	0.4835	A	0.9
6	☐	200.000	199.905	2440918.45	0.9645	A	2.8

y = 0.0048 * x + 3.5731E-004
R = 1.0000
DL = 0.01899
BEC = 0.07409

Weight: <None>
Min Conc: <None>

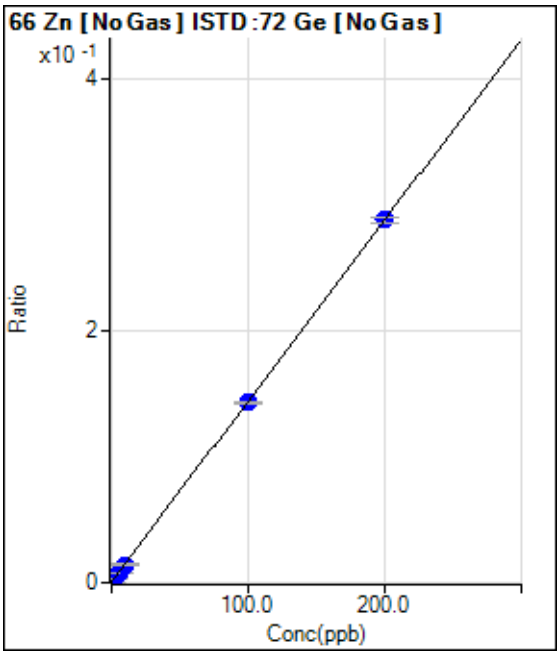


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	376.68	0.0006	P	11.1
2	☐	2.000	2.035	10634.31	0.0173	P	4.1
3	☐	5.000	5.050	25911.53	0.0419	P	2.8
4	☐	10.000	9.652	48055.26	0.0796	P	3.8
5	☐	100.000	99.676	480853.69	0.8164	P	0.4
6	☐	200.000	200.178	949300.54	1.6390	P	1.0

y = 0.0082 * x + 6.0651E-004
R = 1.0000
DL = 0.02474
BEC = 0.0741

Weight: <None>
Min Conc: <None>

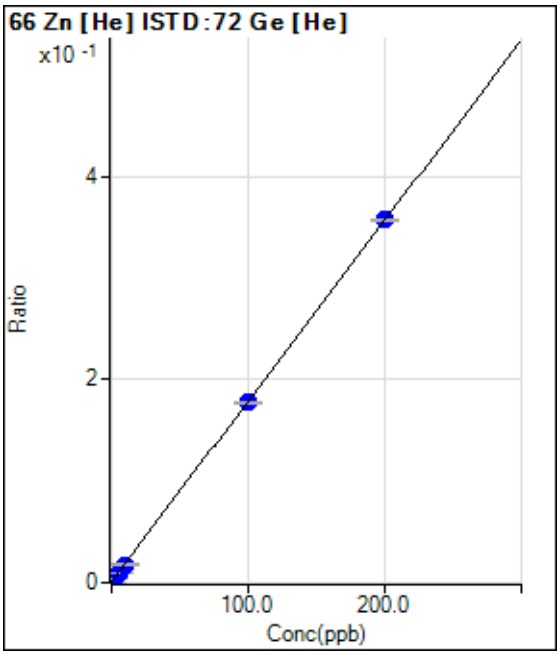
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1813.49	0.0007	P	11.9
2	☐	2.000	2.021	9833.75	0.0036	P	5.2
3	☐	5.000	5.189	22094.93	0.0081	P	0.9
4	☐	10.000	9.643	39223.62	0.0145	P	1.7
5	☐	100.000	99.406	370949.88	0.1435	P	1.1
6	☐	200.000	200.310	730185.69	0.2885	P	1.8

y = 0.0014 * x + 6.5994E-004
R = 1.0000
DL = 0.1635
BEC = 0.4593

Weight: <None>
Min Conc: <None>

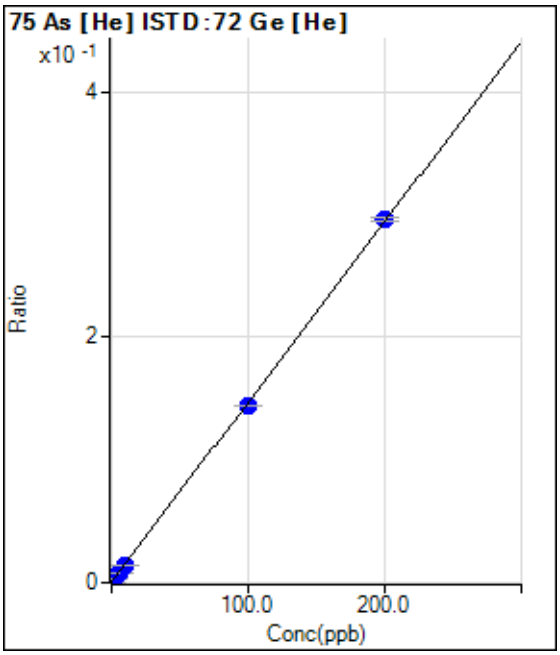


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	560.03	0.0009	P	2.4
2	☐	2.000	2.004	2750.33	0.0045	P	6.7
3	☐	5.000	4.970	6014.78	0.0097	P	7.3
4	☐	10.000	9.606	10851.15	0.0180	P	1.7
5	☐	100.000	99.239	104409.62	0.1773	P	0.5
6	☐	200.000	200.401	206806.33	0.3571	P	0.6

y = 0.0018 * x + 9.0240E-004
R = 1.0000
DL = 0.03707
BEC = 0.5078

Weight: <None>
Min Conc: <None>

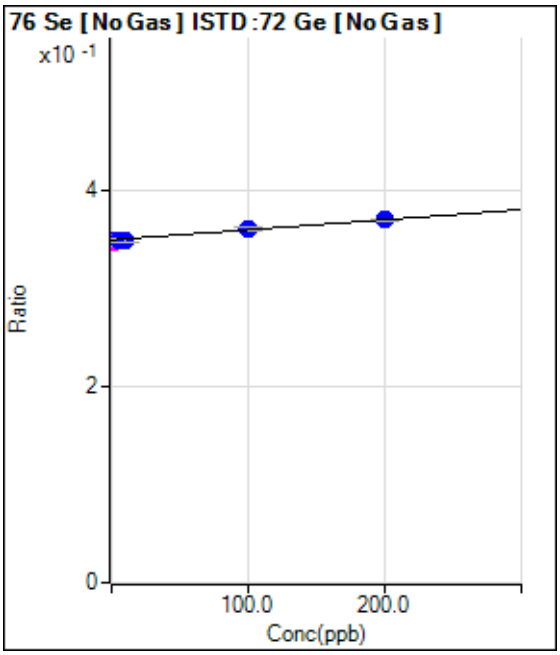
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.12	0.0004	P	21.6
2	☐	2.000	1.949	2002.38	0.0033	P	4.1
3	☐	5.000	4.905	4689.73	0.0076	P	2.3
4	☐	10.000	9.005	8216.97	0.0136	P	3.6
5	☐	100.000	97.864	84868.00	0.1441	P	0.6
6	☐	200.000	201.121	171281.04	0.2957	P	1.0

y = 0.0015 * x + 3.8799E-004
R = 0.9999
DL = 0.171
BEC = 0.2642

Weight: <None>
Min Conc: <None>

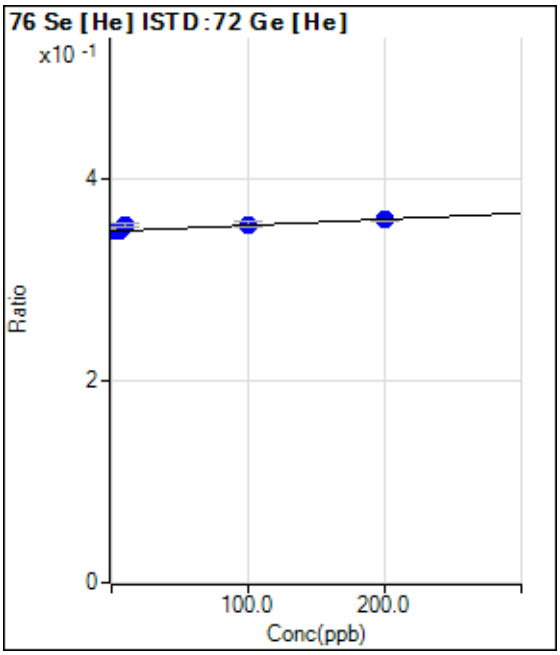


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	961925.72	0.3497	P	1.2
2	☐	2.000	-23.946	957598.50	0.3472	M	2.3
3	☐	5.000	-5.957	950227.67	0.3491	P	0.3
4	☐	10.000	-8.225	942559.28	0.3488	P	0.9
5	☐	100.000	107.770	932481.08	0.3607	P	0.6
6	☐	200.000	197.560	936440.90	0.3699	P	0.7

y = 1.0259E-004 * x + 0.3497
R = 0.9927
DL = 120
BEC = 3409

Weight: <None>
Min Conc: <None>

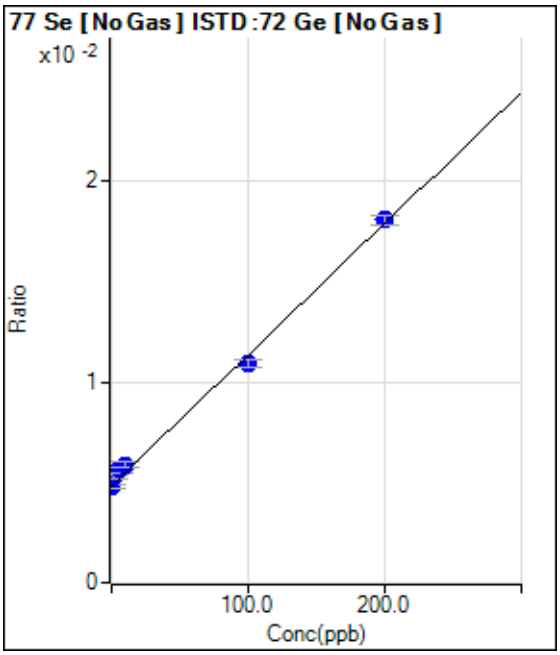
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215987.09	0.3480	P	0.9
2	☐	2.000	13.780	214878.77	0.3488	P	2.1
3	☐	5.000	16.145	215577.75	0.3489	P	0.5
4	☐	10.000	99.412	213680.76	0.3539	P	0.7
5	☐	100.000	114.701	209003.77	0.3548	P	1.6
6	☐	200.000	187.782	208068.54	0.3592	P	0.2

y = 5.9984E-005 * x + 0.3480
R = 0.8987
DL = 164.8
BEC = 5801

Weight: <None>
Min Conc: <None>

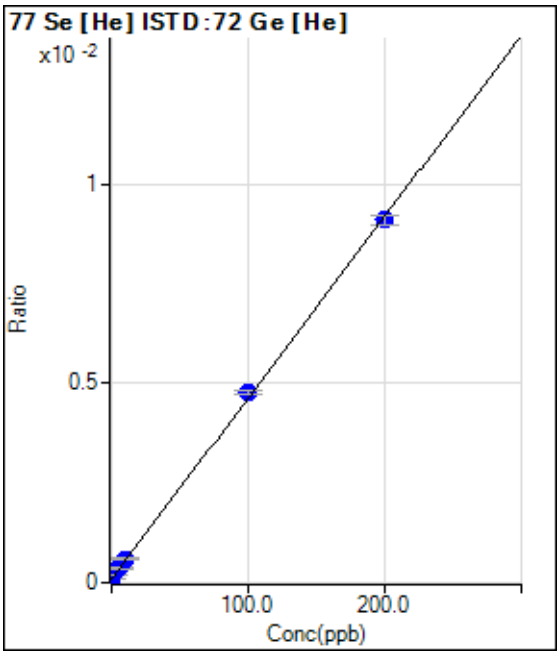


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13276.73	0.0048	P	3.6
2	☐	2.000	6.969	14568.11	0.0053	P	2.9
3	☐	5.000	12.044	15282.23	0.0056	P	3.8
4	☐	10.000	16.042	15872.92	0.0059	P	5.2
5	☐	100.000	93.800	28336.87	0.0110	P	3.6
6	☐	200.000	202.572	45747.76	0.0181	P	2.9

y = 6.5407E-005 * x + 0.0048
R = 0.9984
DL = 7.882
BEC = 73.8

Weight: <None>
Min Conc: <None>

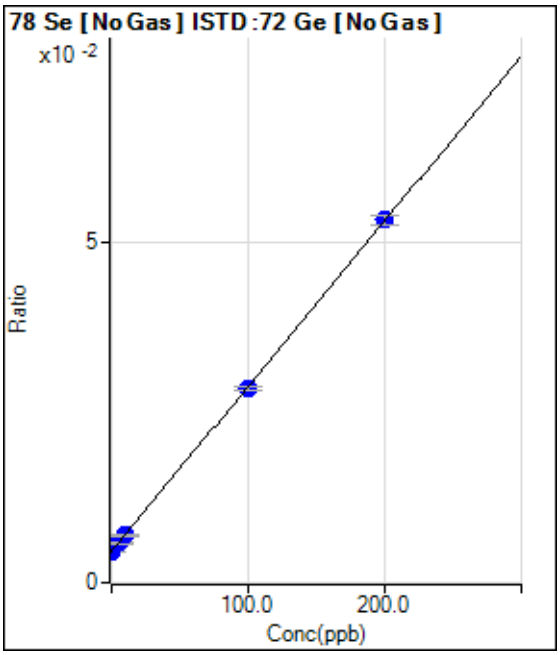
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	11.5
2	☐	2.000	3.822	160.01	0.0003	P	43.8
3	☐	5.000	6.179	226.68	0.0004	P	10.9
4	☐	10.000	10.858	350.01	0.0006	P	8.4
5	☐	100.000	103.235	2817.03	0.0048	P	2.4
6	☐	200.000	198.292	5274.47	0.0091	P	2.7

y = 4.5496E-005 * x + 8.5974E-005
R = 0.9998
DL = 0.6545
BEC = 1.89

Weight: <None>
Min Conc: <None>

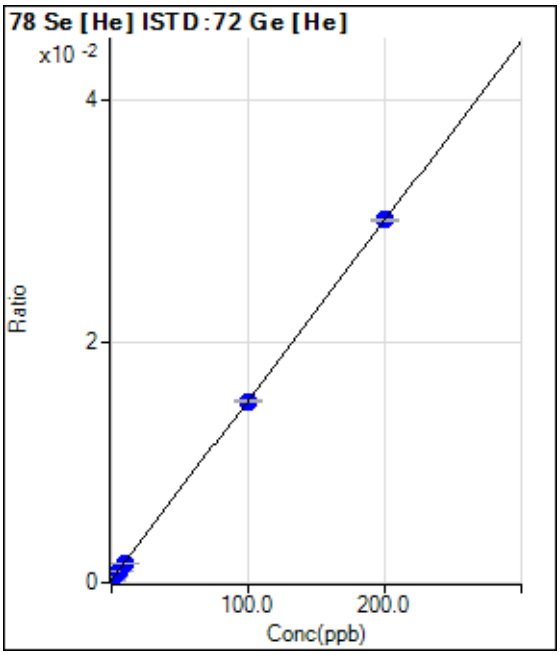


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12739.60	0.0046	P	0.2
2	☐	2.000	3.378	15031.92	0.0055	P	4.1
3	☐	5.000	4.972	15896.27	0.0058	P	1.5
4	☐	10.000	9.509	18756.57	0.0069	P	2.2
5	☐	100.000	98.538	73889.10	0.0286	P	1.1
6	☐	200.000	200.742	135219.79	0.0534	P	2.7

y = 2.4309E-004 * x + 0.0046
R = 0.9999
DL = 0.09201
BEC = 19.05

Weight: <None>
Min Conc: <None>

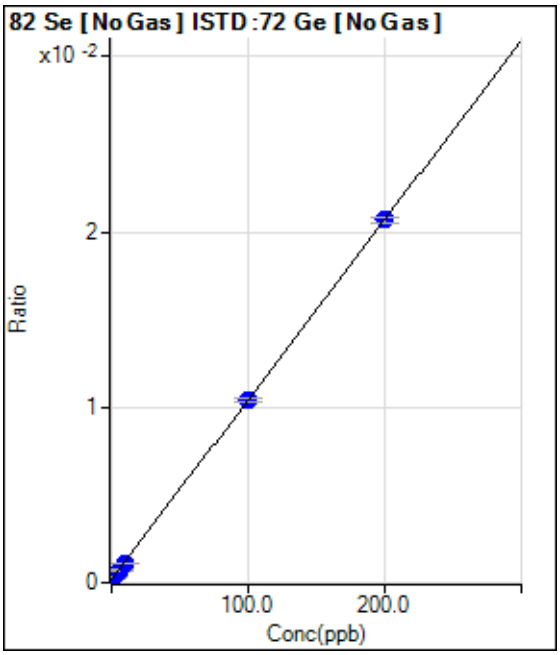
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	145.33	0.0002	P	16.2
2	☐	2.000	1.872	316.00	0.0005	P	7.1
3	☐	5.000	5.295	632.02	0.0010	P	2.3
4	☐	10.000	9.205	969.37	0.0016	P	1.5
5	☐	100.000	99.370	8858.26	0.0150	P	0.6
6	☐	200.000	200.349	17425.93	0.0301	P	0.9

y = 1.4900E-004 * x + 2.3394E-004
R = 1.0000
DL = 0.763
BEC = 1.57

Weight: <None>
Min Conc: <None>

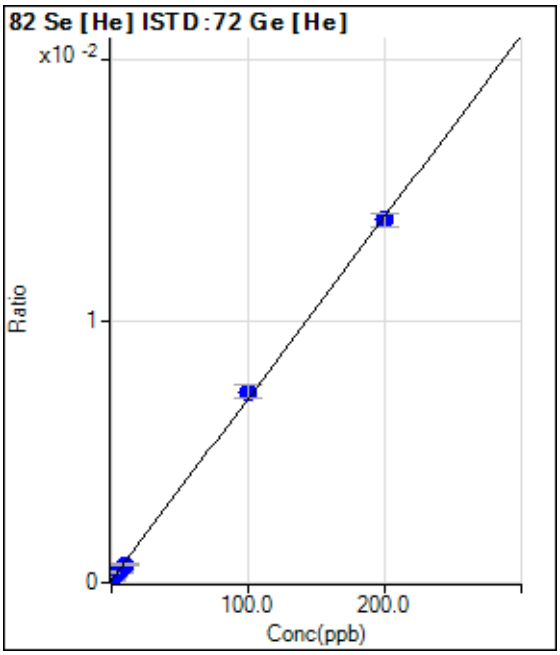


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510.02	0.0002	P	4.3
2	☐	2.000	1.658	980.05	0.0004	P	9.7
3	☐	5.000	4.823	1850.16	0.0007	P	10.7
4	☐	10.000	9.313	3080.41	0.0011	P	0.3
5	☐	100.000	99.916	26953.97	0.0104	P	2.0
6	☐	200.000	200.084	52379.10	0.0207	P	1.7

y = 1.0250E-004 * x + 1.8530E-004
R = 1.0000
DL = 0.2346
BEC = 1.808

Weight: <None>
Min Conc: <None>

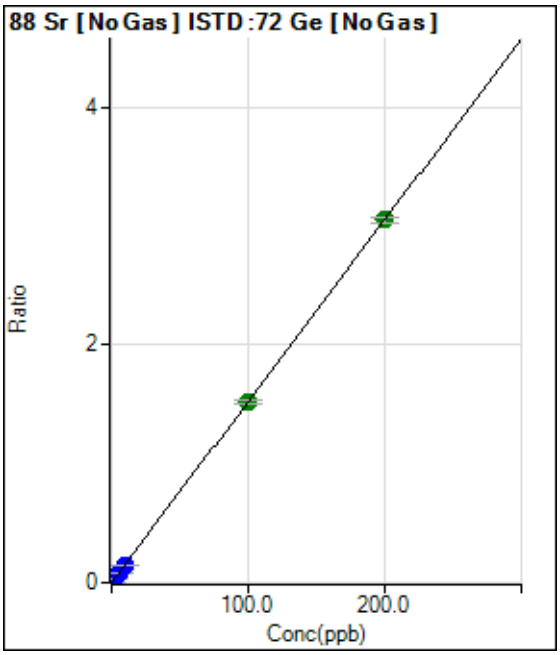
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	23.2
2	☐	2.000	2.041	150.00	0.0002	P	12.9
3	☐	5.000	4.517	256.68	0.0004	P	23.9
4	☐	10.000	8.564	420.02	0.0007	P	10.4
5	☐	100.000	103.462	4284.08	0.0073	P	7.1
6	☐	200.000	198.352	8022.51	0.0138	P	3.7

y = 6.9307E-005 * x + 1.0190E-004
R = 0.9997
DL = 1.024
BEC = 1.47

Weight: <None>
Min Conc: <None>

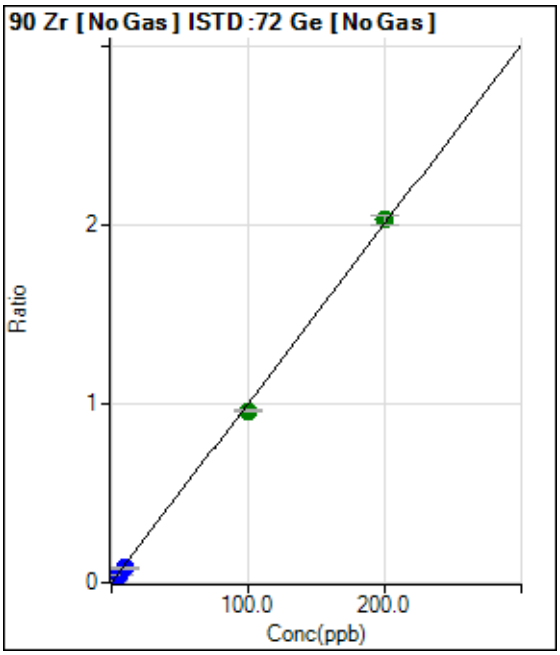


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.41	0.0004	P	14.0
2	☐	2.000	2.070	88095.60	0.0319	P	3.2
3	☐	5.000	5.150	214670.16	0.0789	P	1.3
4	☐	10.000	9.713	400778.12	0.1484	P	4.1
5	☐	100.000	99.686	3925838.27	1.5187	A	1.8
6	☐	200.000	200.167	7717524.47	3.0492	A	1.7

y = 0.0152 * x + 4.2277E-004
R = 1.0000
DL = 0.0117
BEC = 0.02776

Weight: <None>
Min Conc: <None>

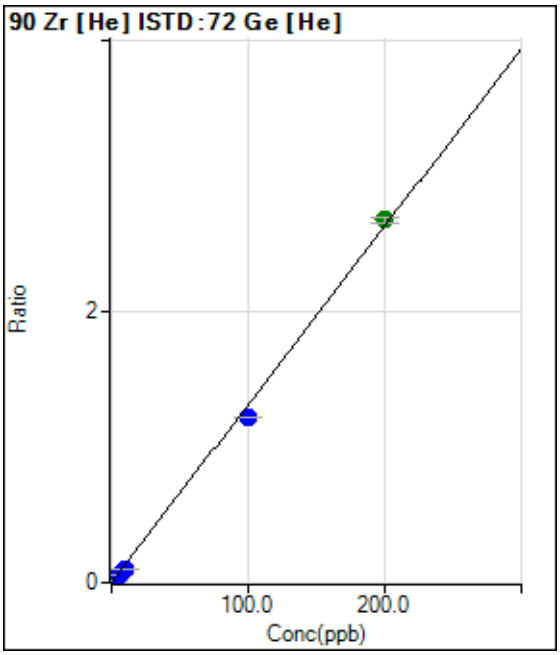
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2213.57	0.0008	P	4.0
2	☐	2.000	1.538	44738.49	0.0162	P	3.8
3	☐	5.000	4.015	111771.07	0.0411	P	0.8
4	☐	10.000	8.004	218951.62	0.0810	P	2.4
5	☐	100.000	95.640	2480639.03	0.9596	A	0.7
6	☐	200.000	202.309	5135108.15	2.0291	A	2.8

y = 0.0100 * x + 8.0462E-004
R = 0.9997
DL = 0.009725
BEC = 0.08026

Weight: <None>
Min Conc: <None>

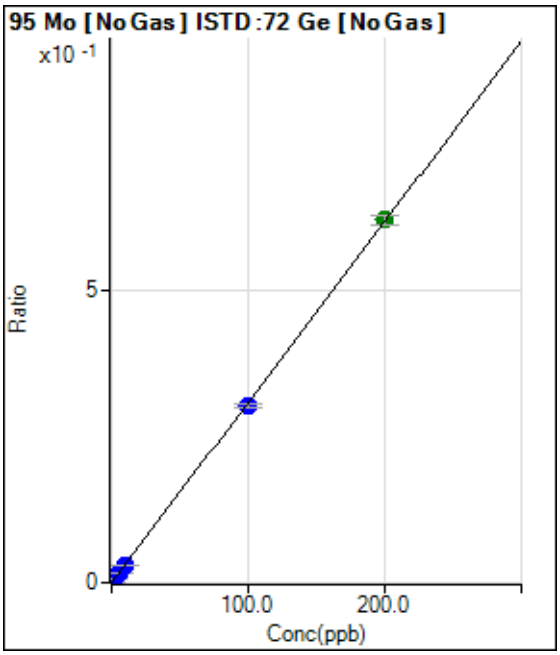


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1053.40	0.0017	P	11.5
2	☐	2.000	1.482	13019.82	0.0211	P	2.2
3	☐	5.000	3.959	33124.65	0.0536	P	1.4
4	☐	10.000	7.782	62640.06	0.1038	P	2.1
5	☐	100.000	92.743	717327.62	1.2179	P	1.0
6	☐	200.000	203.771	1548850.24	2.6739	A	1.6

y = 0.0131 * x + 0.0017
R = 0.9991
DL = 0.04472
BEC = 0.1295

Weight: <None>
Min Conc: <None>

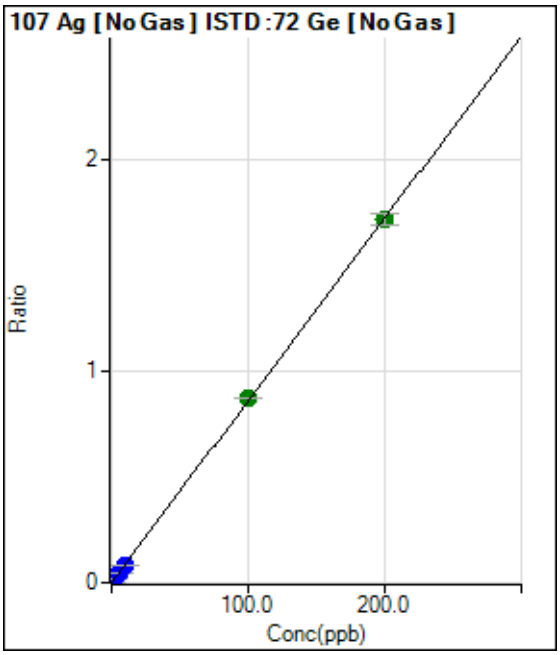
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0001	P	10.3
2	☐	2.000	1.998	17298.16	0.0063	P	3.5
3	☐	5.000	4.914	41628.54	0.0153	P	1.4
4	☐	10.000	9.238	77440.99	0.0287	P	3.1
5	☐	100.000	98.009	783901.32	0.3033	P	1.1
6	☐	200.000	201.036	1574004.25	0.6219	A	2.6

y = 0.0031 * x + 9.1966E-005
R = 0.9999
DL = 0.009189
BEC = 0.02973

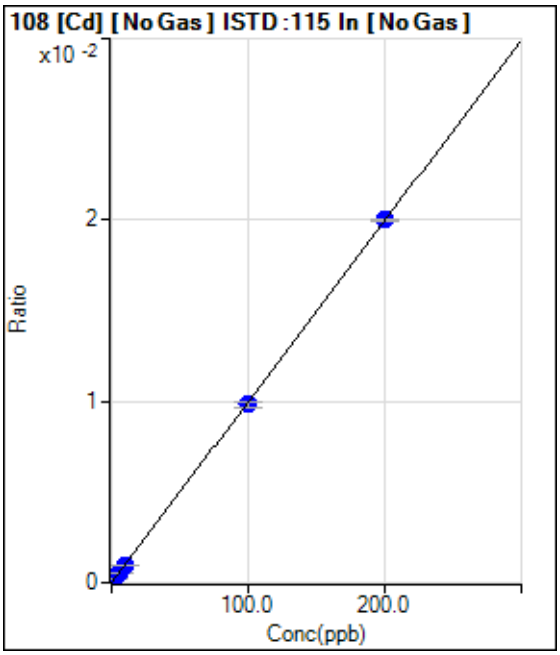
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	350.01	0.0001	P	7.0
2	☐	2.000	2.010	48000.85	0.0174	P	4.4
3	☐	5.000	5.081	119274.33	0.0438	P	1.1
4	☐	10.000	9.598	223271.04	0.0827	P	4.1
5	☐	100.000	101.438	2254935.28	0.8723	A	0.8
6	☐	200.000	199.299	4337143.48	1.7137	A	3.1

y = 0.0086 * x + 1.2713E-004
R = 1.0000
DL = 0.003099
BEC = 0.01479

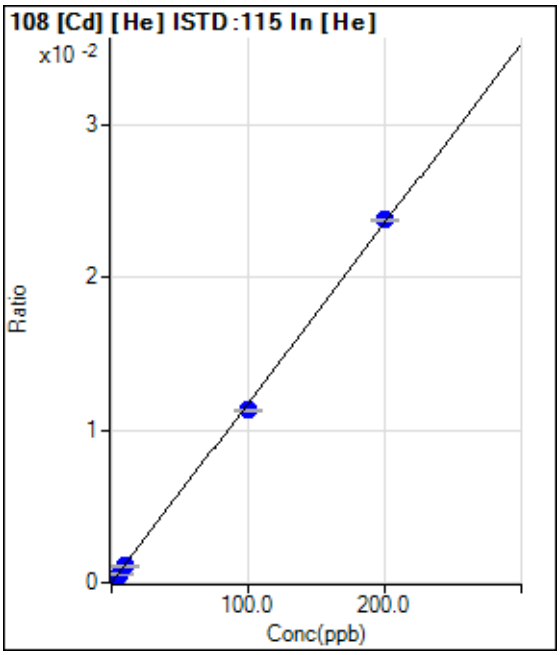
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	2.087	816.70	0.0002	P	7.4
3	☐	5.000	5.015	1903.51	0.0005	P	4.1
4	☐	10.000	9.697	3730.60	0.0010	P	6.3
5	☐	100.000	98.663	36383.61	0.0098	P	2.8
6	☐	200.000	200.682	72035.87	0.0200	P	0.7

y = 9.9747E-005 * x + 0.0000E+000
R = 1.0000
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

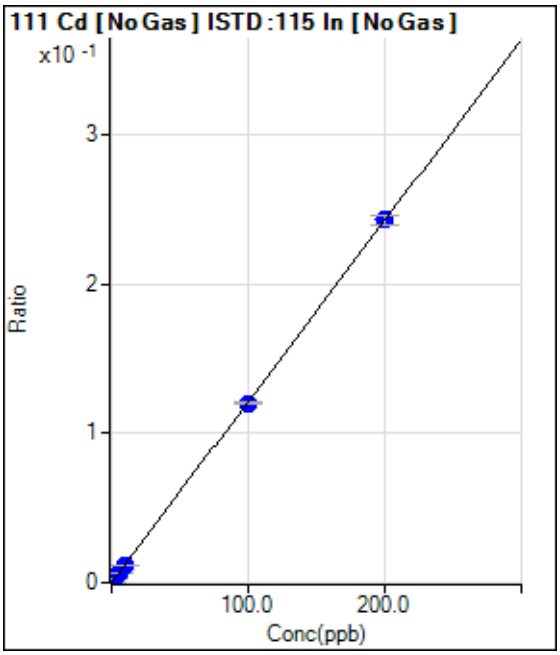


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	2.196	300.01	0.0003	P	17.0
3	☐	5.000	4.748	636.69	0.0006	P	23.1
4	☐	10.000	9.145	1226.75	0.0011	P	9.0
5	☐	100.000	96.046	12342.66	0.0113	P	1.6
6	☐	200.000	202.024	24940.56	0.0238	P	0.8

y = 1.1771E-004 * x + 2.8676E-006
R = 0.9997
DL = 0.1266
BEC = 0.02436

Weight: <None>
Min Conc: <None>

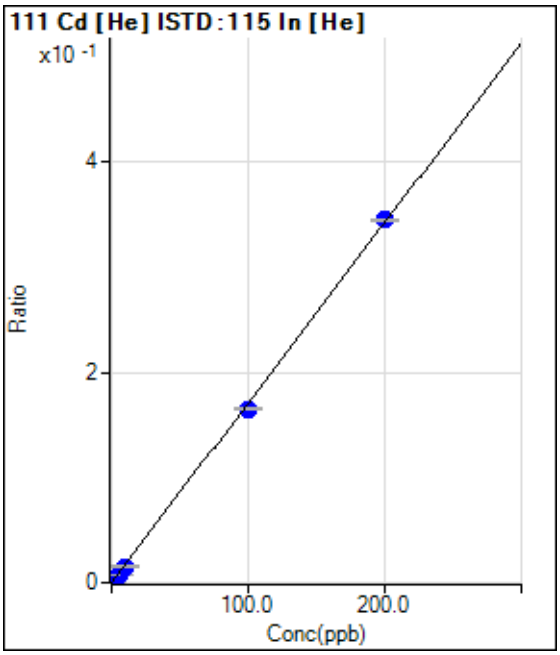
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.943	9261.10	0.0024	P	4.5
3	☐	5.000	5.096	23549.21	0.0062	P	0.6
4	☐	10.000	9.527	44586.68	0.0116	P	1.7
5	☐	100.000	99.081	444659.73	0.1203	P	1.5
6	☐	200.000	200.481	875525.28	0.2433	P	2.5

y = 0.0012 * x + 1.7567E-006
R = 1.0000
DL = 0.007521
BEC = 0.001447

Weight: <None>
Min Conc: <None>

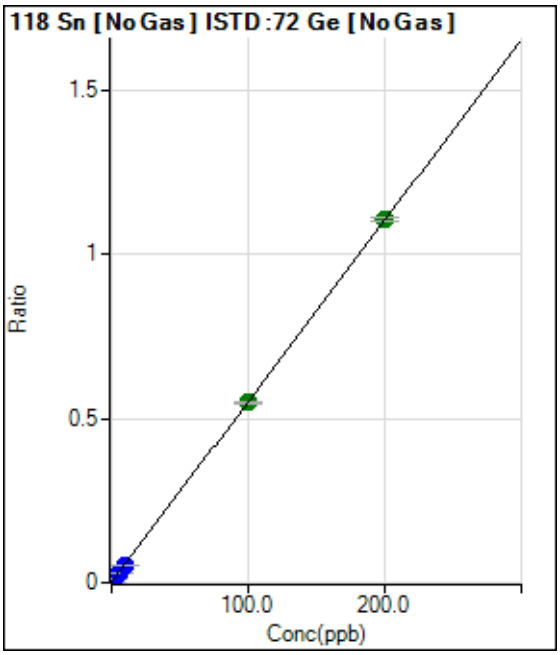


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.91	0.0000	P	86.8
2	☐	2.000	1.979	3889.13	0.0034	P	2.0
3	☐	5.000	4.717	9125.98	0.0081	P	3.0
4	☐	10.000	9.025	17549.85	0.0154	P	3.0
5	☐	100.000	96.668	180397.88	0.1653	P	0.4
6	☐	200.000	201.722	361758.35	0.3449	P	0.4

y = 0.0017 * x + 5.9017E-006
R = 0.9998
DL = 0.008992
BEC = 0.003451

Weight: <None>
Min Conc: <None>

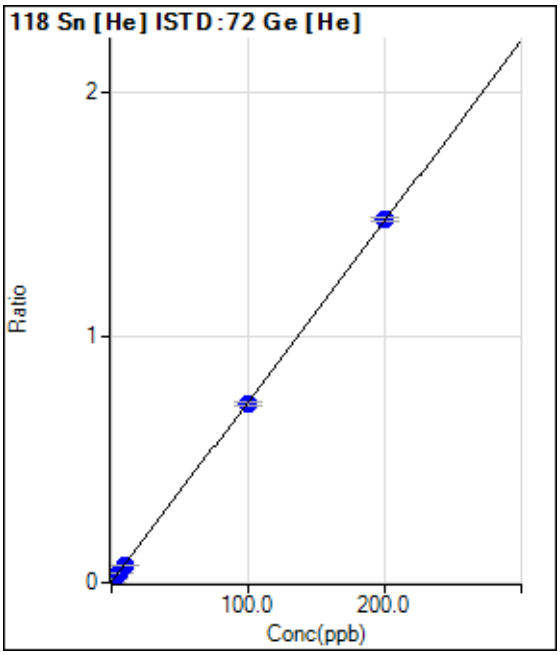
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3010.40	0.0011	P	2.5
2	☐	2.000	1.958	32731.09	0.0119	P	3.7
3	☐	5.000	4.926	76753.55	0.0282	P	2.3
4	☐	10.000	9.474	143784.23	0.0532	P	2.9
5	☐	100.000	99.297	1415088.16	0.5474	A	0.9
6	☐	200.000	200.380	2793364.75	1.1036	A	1.2

y = 0.0055 * x + 0.0011
R = 1.0000
DL = 0.01482
BEC = 0.1989

Weight: <None>
Min Conc: <None>

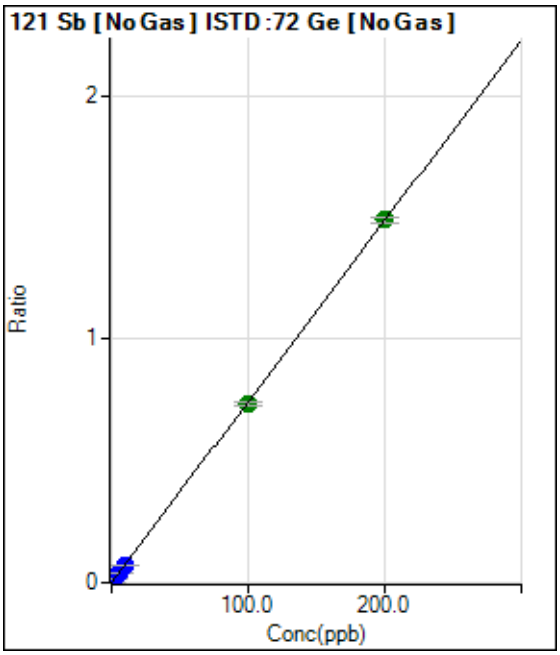


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	840.05	0.0014	P	6.3
2	☐	2.000	1.932	9593.65	0.0156	P	3.3
3	☐	5.000	4.906	23140.81	0.0375	P	3.2
4	☐	10.000	9.389	42525.87	0.0704	P	4.1
5	☐	100.000	98.606	428140.89	0.7269	P	1.8
6	☐	200.000	200.730	856265.98	1.4783	P	1.2

y = 0.0074 * x + 0.0014
R = 1.0000
DL = 0.03468
BEC = 0.1839

Weight: <None>
Min Conc: <None>

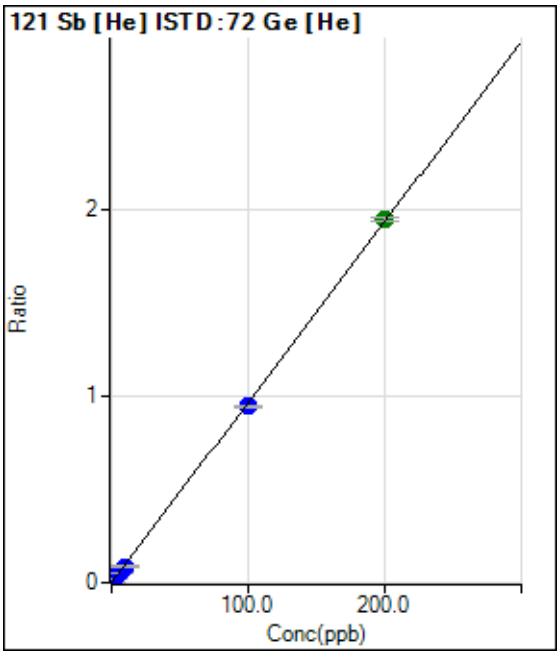
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	813.37	0.0003	P	22.6
2	☐	2.000	2.014	42027.50	0.0152	P	3.6
3	☐	5.000	4.886	99468.59	0.0365	P	1.8
4	☐	10.000	9.225	185693.52	0.0687	P	3.3
5	☐	100.000	98.851	1896516.07	0.7337	A	2.0
6	☐	200.000	200.616	3767941.92	1.4887	A	1.6

y = 0.0074 * x + 2.9650E-004
R = 1.0000
DL = 0.02706
BEC = 0.03996

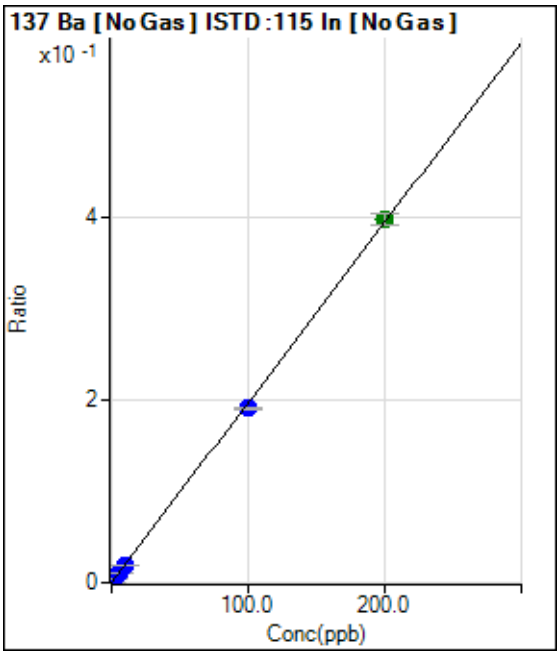
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	266.68	0.0004	P	27.1
2	☐	2.000	1.975	12029.06	0.0195	P	5.7
3	☐	5.000	4.956	29871.01	0.0483	P	3.1
4	☐	10.000	9.013	52870.15	0.0876	P	1.9
5	☐	100.000	97.800	557157.30	0.9459	P	1.5
6	☐	200.000	201.151	1126586.13	1.9451	A	1.1

y = 0.0097 * x + 4.3019E-004
R = 0.9999
DL = 0.0362
BEC = 0.0445

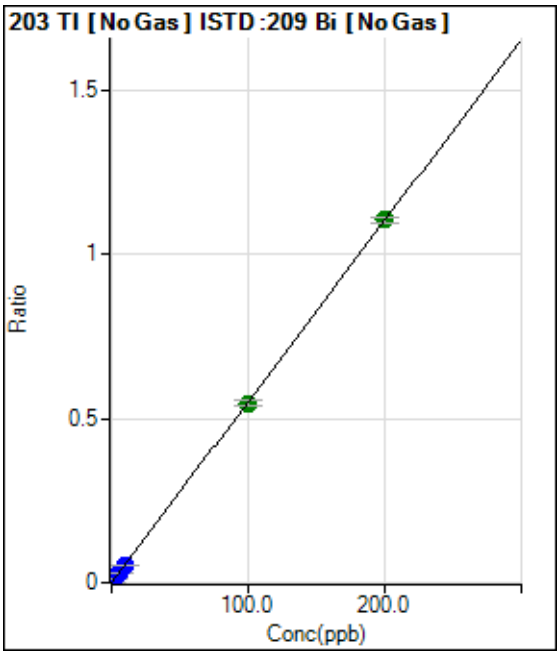
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.00	0.0001	P	24.6
2	☐	2.000	1.975	15499.45	0.0039	P	2.6
3	☐	5.000	5.018	37889.13	0.0100	P	1.5
4	☐	10.000	9.240	70508.15	0.0183	P	1.9
5	☐	100.000	96.968	707691.29	0.1914	P	1.5
6	☐	200.000	201.554	1431197.11	0.3978	A	3.3

y = 0.0020 * x + 5.1961E-005
R = 0.9998
DL = 0.01944
BEC = 0.02633

Weight: <None>
Min Conc: <None>

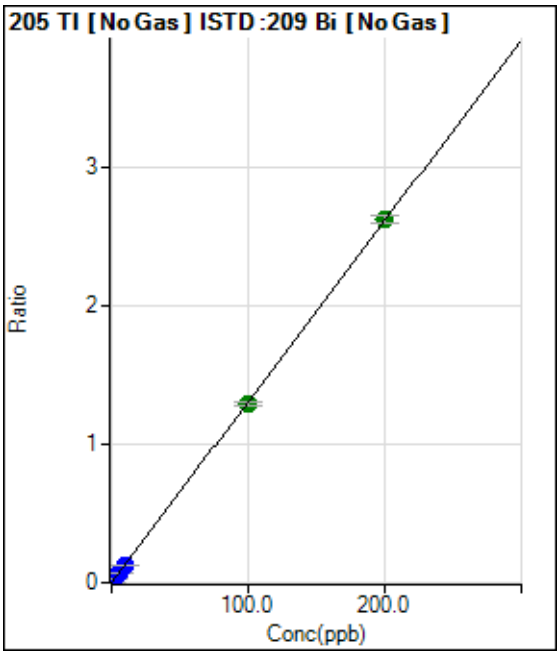


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0000	P	25.5
2	☐	2.000	1.808	36002.09	0.0100	P	2.8
3	☐	5.000	4.929	95940.26	0.0272	P	0.9
4	☐	10.000	9.286	181406.26	0.0513	P	4.1
5	☐	100.000	99.016	1890519.56	0.5463	A	3.1
6	☐	200.000	200.532	3678192.55	1.1065	A	1.6

y = 0.0055 * x + 2.7313E-005
R = 1.0000
DL = 0.003786
BEC = 0.00495

Weight: <None>
Min Conc: <None>

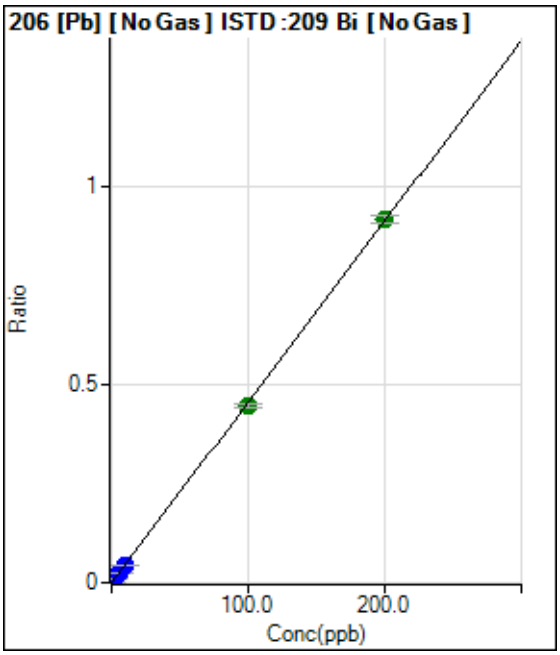
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0001	P	25.0
2	☐	2.000	1.802	84881.15	0.0236	P	5.0
3	☐	5.000	5.036	232022.45	0.0658	P	2.0
4	☐	10.000	9.423	435736.61	0.1231	P	3.3
5	☐	100.000	98.764	4462836.60	1.2899	A	2.6
6	☐	200.000	200.648	8710972.79	2.6206	A	2.2

y = 0.0131 * x + 6.0244E-005
R = 1.0000
DL = 0.003456
BEC = 0.004613

Weight: <None>
Min Conc: <None>

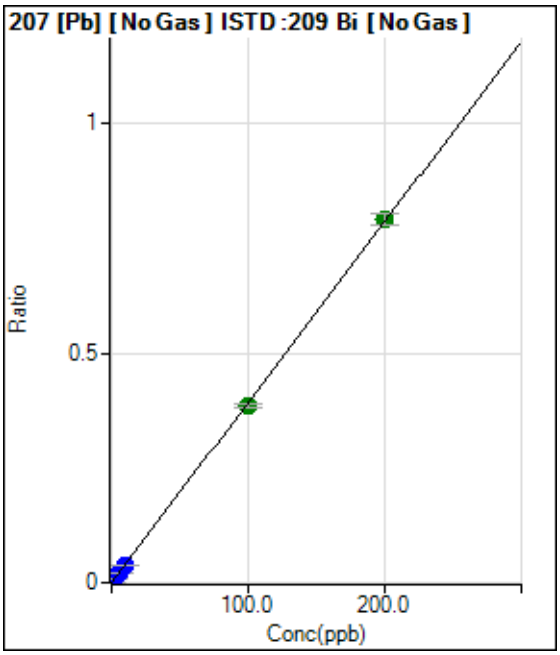


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0000	P	18.4
2	☐	2.000	1.911	31597.10	0.0088	P	4.0
3	☐	5.000	5.023	81012.48	0.0230	P	2.9
4	☐	10.000	9.412	152251.27	0.0430	P	4.3
5	☐	100.000	98.423	1555068.21	0.4495	A	2.1
6	☐	200.000	200.818	3048328.08	0.9170	A	2.1

y = 0.0046 * x + 4.9067E-005
R = 1.0000
DL = 0.005935
BEC = 0.01075

Weight: <None>
Min Conc: <None>

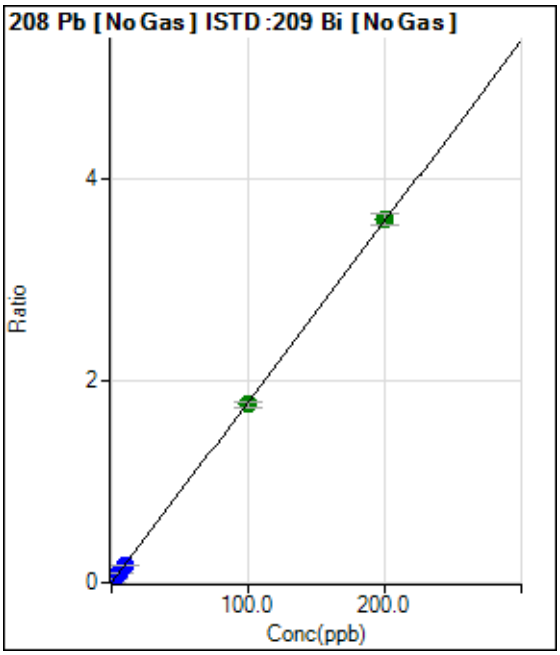
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0001	P	6.2
2	☐	2.000	1.952	27848.16	0.0077	P	3.7
3	☐	5.000	4.970	69087.86	0.0196	P	0.6
4	☐	10.000	9.348	130292.99	0.0368	P	4.2
5	☐	100.000	97.886	1331757.22	0.3850	A	2.7
6	☐	200.000	201.091	2628463.55	0.7908	A	3.3

y = 0.0039 * x + 6.0349E-005
R = 0.9999
DL = 0.002858
BEC = 0.01535

Weight: <None>
Min Conc: <None>

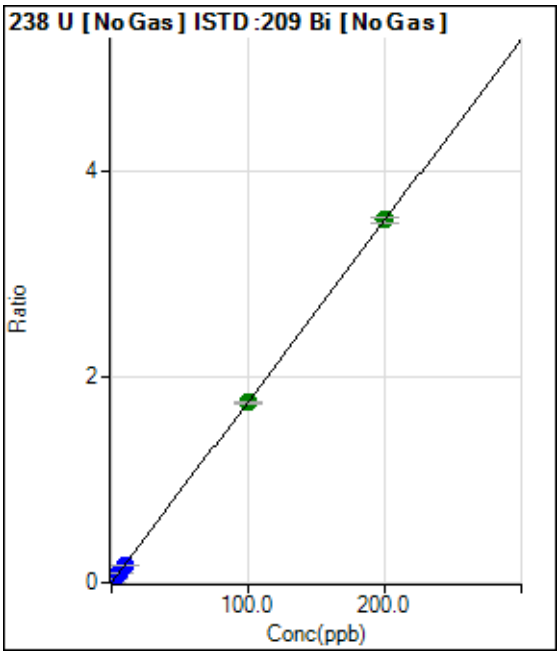


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	940.03	0.0003	P	14.5
2	☐	2.000	1.963	127202.64	0.0353	P	3.8
3	☐	5.000	5.041	318483.87	0.0904	P	1.2
4	☐	10.000	9.544	604620.96	0.1709	P	3.3
5	☐	100.000	98.465	6089635.80	1.7601	A	2.4
6	☐	200.000	200.790	11929135.29	3.5890	A	3.1

y = 0.0179 * x + 2.6600E-004
R = 1.0000
DL = 0.006495
BEC = 0.01488

Weight: <None>
Min Conc: <None>

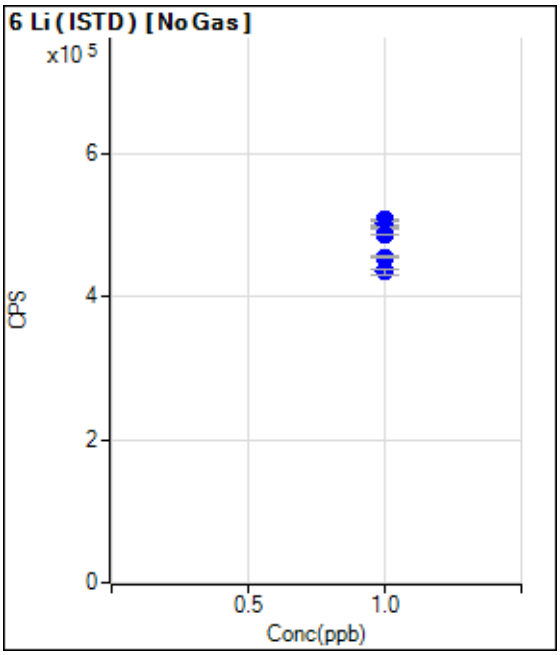
Calibration for 088_ICV.d



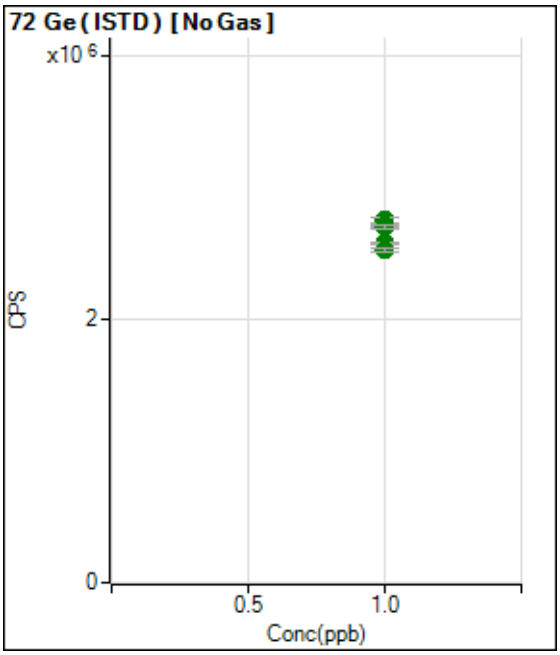
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.02	0.0001	P	4.9
2	☐	2.000	1.914	121562.48	0.0338	P	3.5
3	☐	5.000	4.858	301389.81	0.0855	P	1.1
4	☐	10.000	9.330	580790.71	0.1641	P	3.3
5	☐	100.000	99.375	6044826.16	1.7467	A	1.7
6	☐	200.000	200.350	11706251.91	3.5214	A	1.9

y = 0.0176 * x + 1.3288E-004
R = 1.0000
DL = 0.001121
BEC = 0.007561

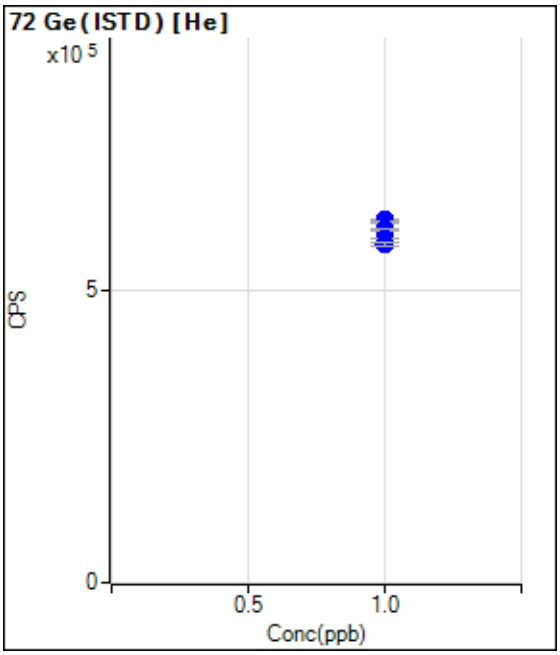
Weight: <None>
Min Conc: <None>



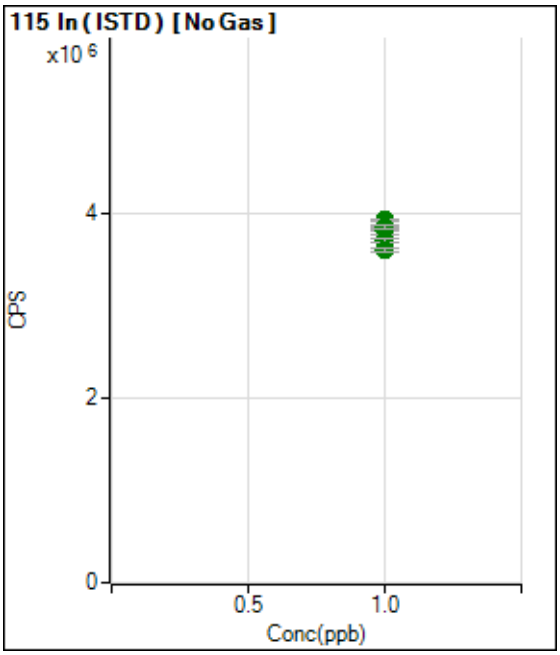
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		506608.76		P	0.8
2	☐	1.000		503313.82		P	1.0
3	☐	1.000		495879.16		P	0.5
4	☐	1.000		486542.86		P	0.3
5	☐	1.000		454938.24		P	0.1
6	☐	1.000		433701.62		P	1.4



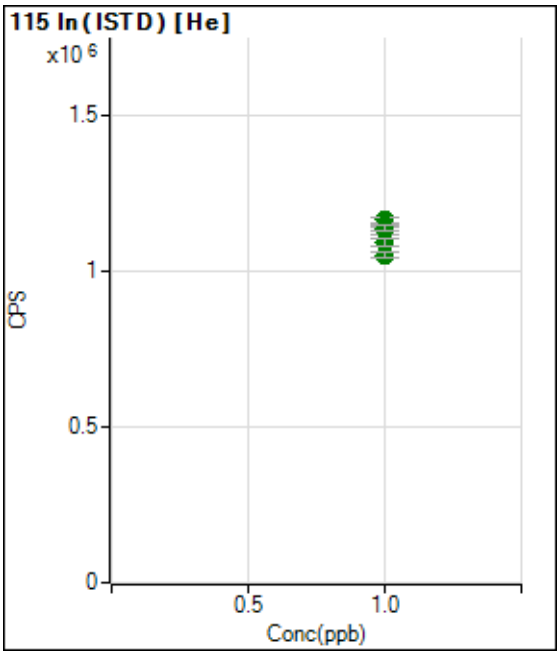
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2751281.21		A	2.0
2	☐	1.000		2758365.89		A	1.4
3	☐	1.000		2722243.08		A	1.1
4	☐	1.000		2702242.36		A	1.4
5	☐	1.000		2584993.09		A	0.4
6	☐	1.000		2531384.75		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		620673.35		P	0.9
2	☐	1.000		616097.49		P	0.5
3	☐	1.000		617820.30		P	0.7
4	☐	1.000		603747.18		P	0.8
5	☐	1.000		588974.30		P	0.5
6	☐	1.000		579205.19		P	0.7

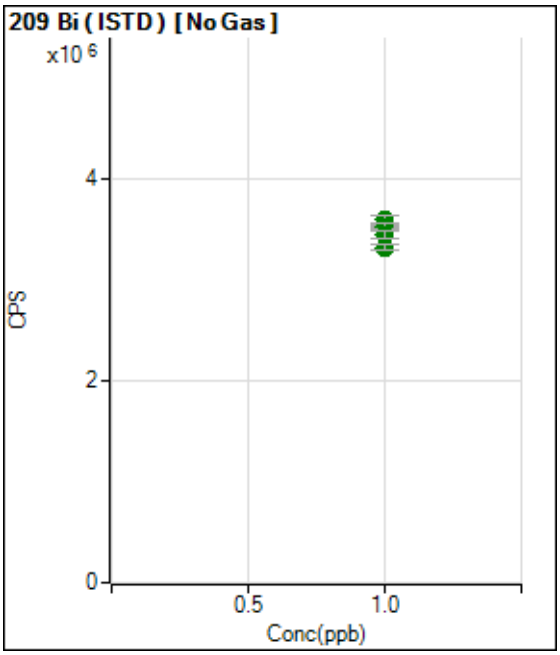


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3841255.92		A	1.3
2	☐	1.000		3923930.66		A	0.9
3	☐	1.000		3806159.04		A	1.7
4	☐	1.000		3855128.52		A	1.2
5	☐	1.000		3697564.23		A	0.9
6	☐	1.000		3598803.99		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1163109.08		A	1.4
2	☐	1.000		1147226.00		A	0.9
3	☐	1.000		1130184.56		A	2.2
4	☐	1.000		1136932.07		A	1.8
5	☐	1.000		1091328.39		A	1.8
6	☐	1.000		1048792.56		A	1.9

Calibration for 088_ICV.d



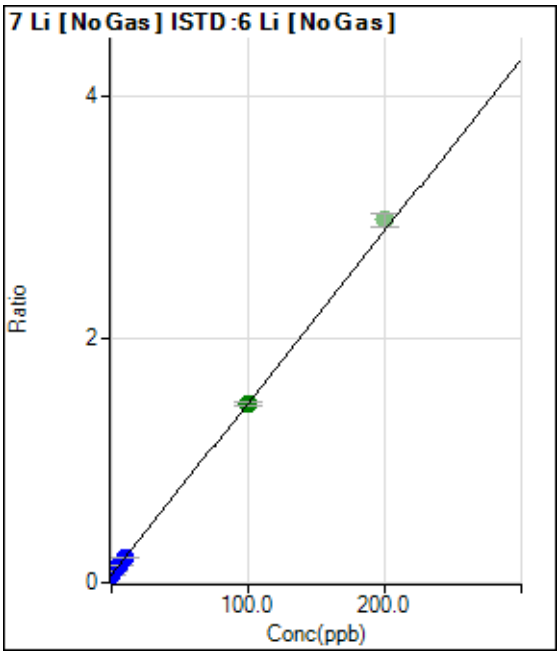
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3536340.99		A	0.9
2	☐	1.000		3600716.41		A	2.4
3	☐	1.000		3524562.34		A	0.5
4	☐	1.000		3539823.91		A	1.3
5	☐	1.000		3460725.16		A	2.3
6	☐	1.000		3324820.99		A	1.5

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/15/2024 11:22:30 AM
2	011CALS.d	2/10/200	5/15/2024 11:24:26 AM
3	012CALS.d	5/25/500	5/15/2024 11:26:21 AM
4	013CALS.d	10/50/100	5/15/2024 11:28:17 AM
5	018CALS.d	100/500/10K	5/15/2024 11:41:43 AM
6	015CALS.d	200/1000/20K	5/15/2024 11:32:01 AM

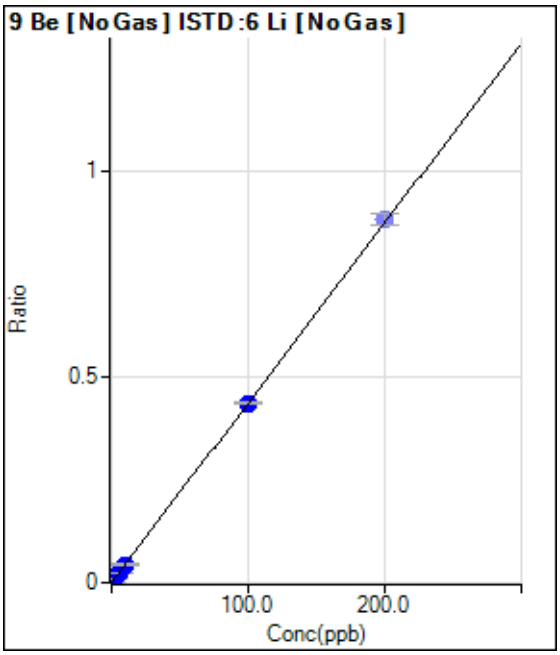
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33615.00	0.0643	P	0.2
2	☐	2.000	2.074	48516.51	0.0936	P	1.3
3	☐	5.000	5.270	70959.05	0.1387	P	1.5
4	☐	10.000	10.383	107004.45	0.2108	P	1.5
5	☐	100.000	99.947	740393.24	1.4749	A	2.2
6	☑	200.000		1414528.52	2.9786	A	4.0

y = 0.0141 * x + 0.0643
R = 1.0000
DL = 0.03302
BEC = 4.556

Weight: <None>
Min Conc: <None>

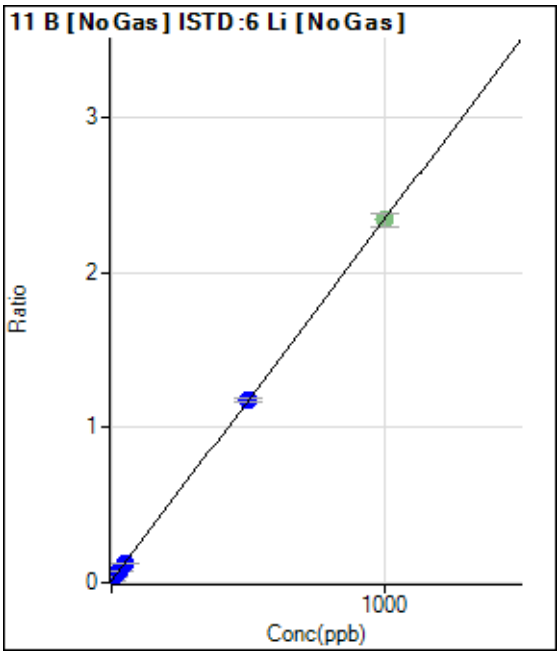


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.00	0.0001	P	65.9
2	☐	2.000	2.065	4717.50	0.0091	P	6.0
3	☐	5.000	5.142	11536.44	0.0225	P	1.6
4	☐	10.000	10.121	22493.03	0.0443	P	1.7
5	☐	100.000	99.979	219464.98	0.4372	P	1.9
6	☑	200.000		419077.07	0.8824	P	3.2

y = 0.0044 * x + 6.7053E-005
R = 1.0000
DL = 0.03034
BEC = 0.01534

Weight: <None>
Min Conc: <None>

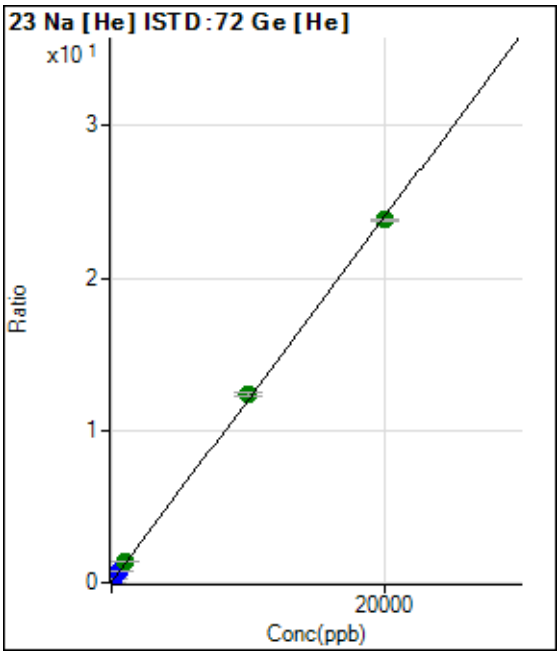
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5981.32	0.0114	P	2.6
2	☐	10.000	9.843	17829.70	0.0344	P	1.1
3	☐	25.000	25.385	36129.68	0.0706	P	1.2
4	☐	50.000	50.288	65294.08	0.1286	P	1.0
5	☐	500.000	499.955	590729.13	1.1767	P	1.5
6	☑	1000.000		1111646.13	2.3408	A	3.6

y = 0.0023 * x + 0.0114
R = 1.0000
DL = 0.3834
BEC = 4.909

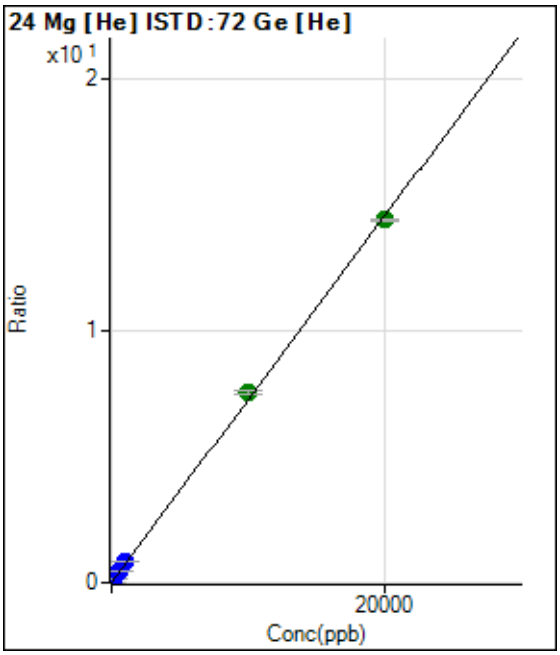
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18322.21	0.0339	P	1.7
2	☐	200.000	229.766	168102.58	0.3092	P	1.5
3	☐	500.000	584.416	397675.74	0.7342	P	0.8
4	☐	1000.000	1107.224	731444.62	1.3607	A	2.6
5	☐	10000.000	10300.636	6800088.86	12.3774	A	1.4
6	☐	20000.000	19841.913	12776303.14	23.8110	A	0.9

y = 0.0012 * x + 0.0339
R = 0.9998
DL = 1.485
BEC = 28.28

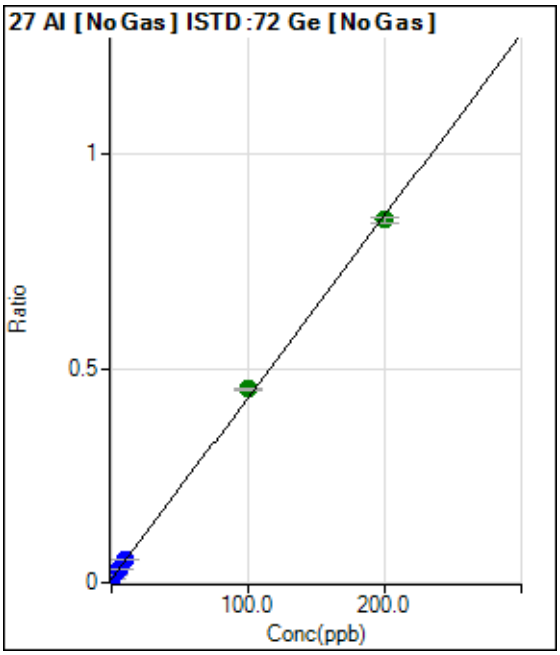
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.68	0.0007	P	15.0
2	☐	200.000	232.702	92364.44	0.1699	P	2.0
3	☐	500.000	587.146	231598.66	0.4276	P	0.9
4	☐	1000.000	1120.926	438453.78	0.8157	P	2.9
5	☐	10000.000	10374.161	4144112.33	7.5431	A	1.5
6	☐	20000.000	19804.368	7726528.22	14.3991	A	0.4

y = 7.2703E-004 * x + 7.1508E-004
R = 0.9998
DL = 0.4424
BEC = 0.9836

Weight: <None>
Min Conc: <None>

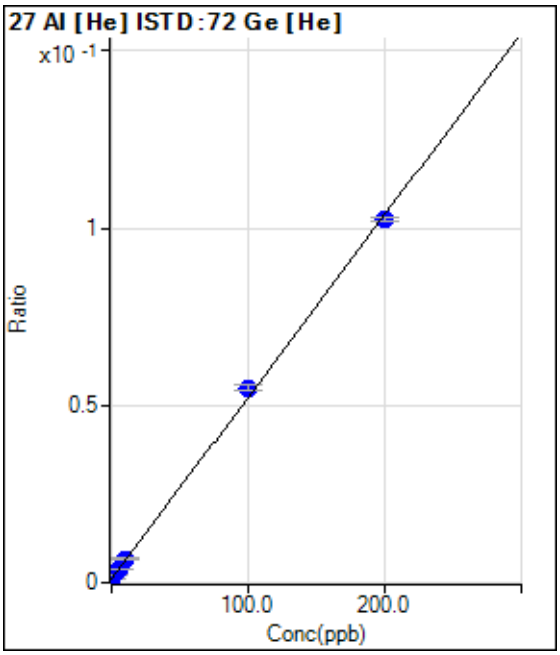


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18622.72	0.0080	P	1.5
2	☐	2.000	2.136	40141.37	0.0171	P	2.4
3	☐	5.000	5.540	73687.96	0.0316	P	1.8
4	☐	10.000	10.861	126635.68	0.0542	P	2.7
5	☐	100.000	104.538	1053769.46	0.4519	A	0.6
6	☐	200.000	197.673	1955192.11	0.8474	A	1.5

y = 0.0042 * x + 0.0080
R = 0.9996
DL = 0.08368
BEC = 1.895

Weight: <None>
Min Conc: <None>

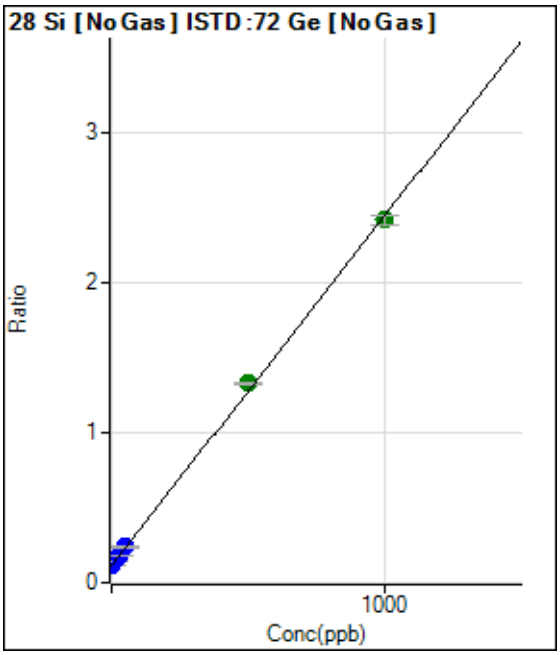
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	530.02	0.0010	P	12.6
2	☐	2.000	2.591	1256.75	0.0023	P	3.4
3	☐	5.000	5.449	2046.86	0.0038	P	2.2
4	☐	10.000	11.051	3577.20	0.0067	P	7.5
5	☐	100.000	105.129	30193.22	0.0550	P	2.9
6	☐	200.000	197.366	54904.84	0.1023	P	1.1

y = 5.1344E-004 * x + 9.8107E-004
R = 0.9995
DL = 0.7212
BEC = 1.911

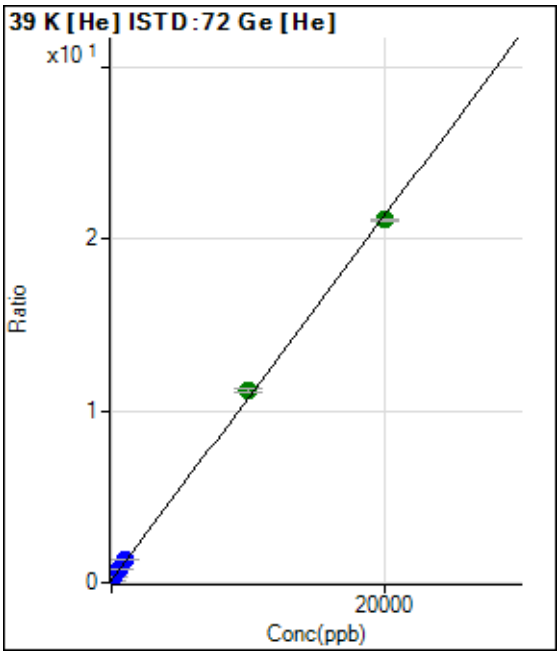
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	259624.09	0.1122	P	0.4
2	☐	10.000	12.252	330278.65	0.1408	P	4.5
3	☐	25.000	27.709	412580.70	0.1768	P	0.6
4	☐	50.000	54.125	557319.61	0.2384	P	1.5
5	☐	500.000	521.133	3093967.35	1.3269	A	0.6
6	☐	1000.000	989.137	5578332.42	2.4178	A	2.8

y = 0.0023 * x + 0.1122
R = 0.9997
DL = 0.5733
BEC = 48.13

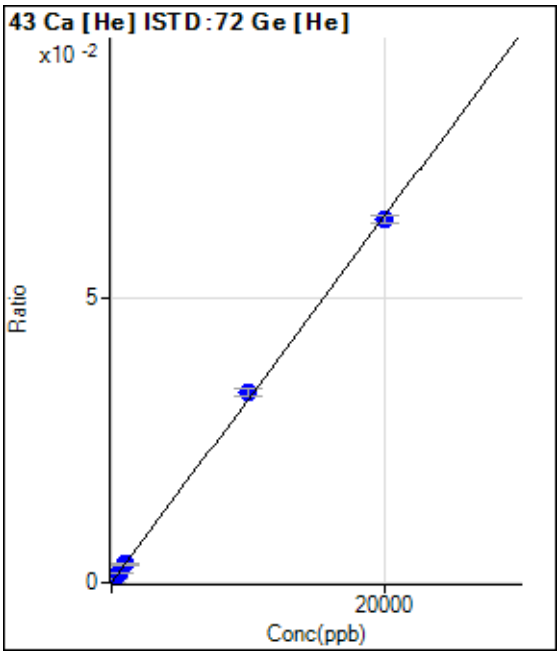
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76427.78	0.1414	P	1.4
2	☐	200.000	226.885	207669.89	0.3820	P	2.8
3	☐	500.000	586.366	413448.38	0.7633	P	1.3
4	☐	1000.000	1110.014	708915.95	1.3188	P	2.1
5	☐	10000.000	10440.324	6161779.07	11.2157	A	2.4
6	☐	20000.000	19771.909	11329742.33	21.1140	A	0.7

y = 0.0011 * x + 0.1414
R = 0.9997
DL = 5.504
BEC = 133.3

Weight: <None>
Min Conc: <None>

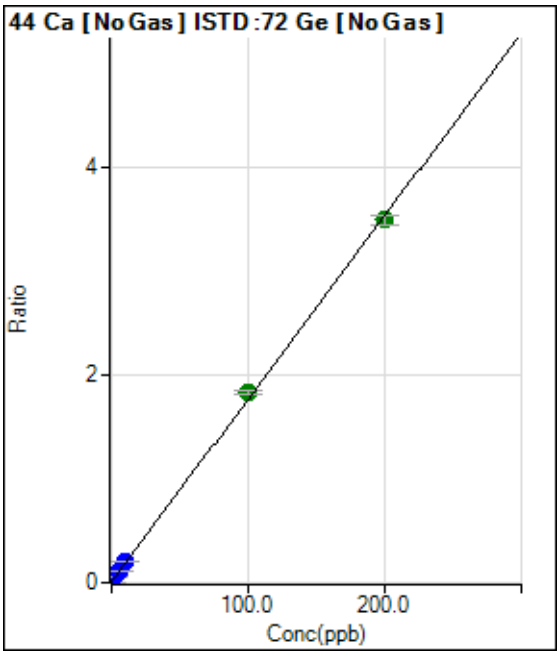


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	200.000	196.492	350.01	0.0006	P	12.1
3	☐	500.000	528.675	926.72	0.0017	P	7.2
4	☐	1000.000	1007.678	1746.80	0.0033	P	9.0
5	☐	10000.000	10405.917	18375.77	0.0334	P	3.4
6	☐	20000.000	19795.976	34132.50	0.0636	P	2.2

y = 3.2131E-006 * x + 1.2296E-005
R = 0.9997
DL = 9.943
BEC = 3.827

Weight: <None>
Min Conc: <None>

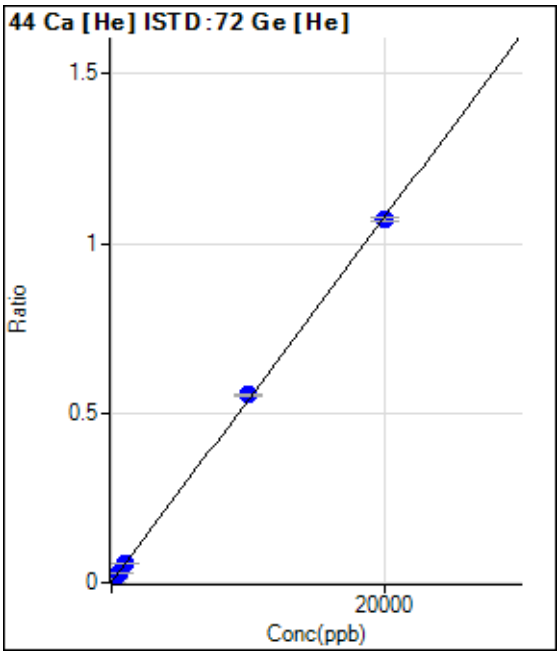
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17628.21	0.0076	P	0.9
2	☐	2.000	2.280	112066.49	0.0478	P	4.8
3	☐	5.000	5.591	247761.15	0.1062	P	1.0
4	☐	10.000	10.900	466933.68	0.1997	P	2.7
5	☐	100.000	104.009	4291654.20	1.8407	A	1.8
6	☐	200.000	197.933	8066059.88	3.4960	A	2.3

y = 0.0176 * x + 0.0076
R = 0.9997
DL = 0.01202
BEC = 0.4322

Weight: <None>
Min Conc: <None>

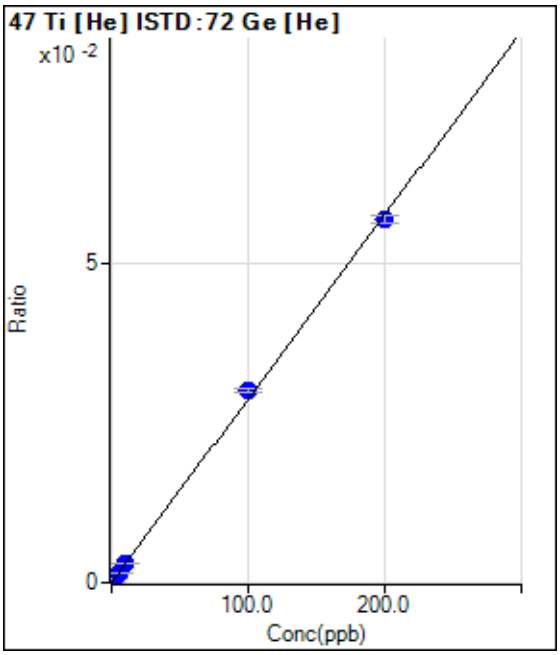


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.69	0.0009	P	4.7
2	☐	200.000	219.407	6905.19	0.0127	P	4.2
3	☐	500.000	541.093	16256.47	0.0300	P	4.1
4	☐	1000.000	1062.372	31209.02	0.0581	P	4.6
5	☐	10000.000	10274.506	304209.84	0.5537	P	1.2
6	☐	20000.000	19858.407	573810.05	1.0694	P	1.1

y = 5.3805E-005 * x + 9.0033E-004
R = 0.9999
DL = 2.352
BEC = 16.73

Weight: <None>
Min Conc: <None>

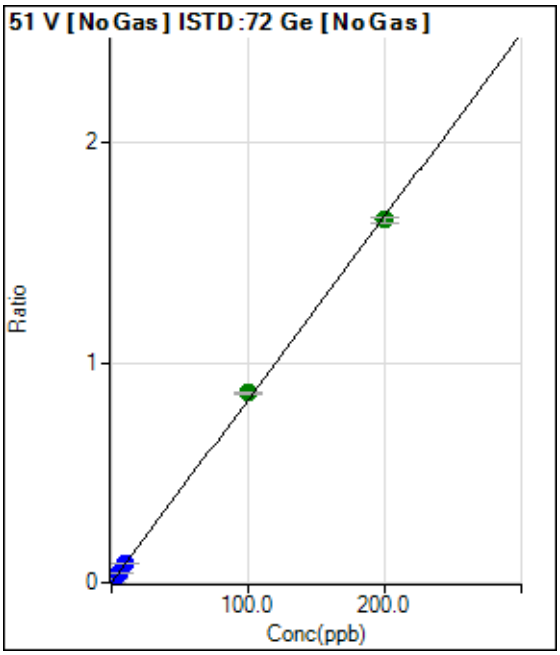
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	99.5
2	☐	2.000	2.372	380.01	0.0007	P	5.6
3	☐	5.000	5.339	840.04	0.0016	P	6.2
4	☐	10.000	10.521	1633.46	0.0030	P	2.6
5	☐	100.000	104.982	16566.97	0.0302	P	2.1
6	☐	200.000	197.471	30427.33	0.0567	P	2.1

y = 2.8706E-004 * x + 1.8397E-005
R = 0.9996
DL = 0.1913
BEC = 0.06409

Weight: <None>
Min Conc: <None>

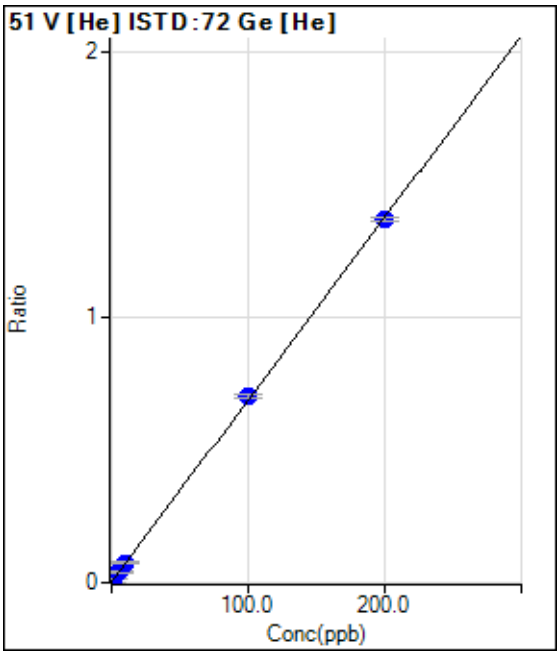


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1540.30	0.0007	P	354.7
2	☐	2.000	2.175	43882.24	0.0187	P	11.0
3	☐	5.000	5.244	103298.86	0.0443	P	3.6
4	☐	10.000	10.382	203384.01	0.0870	P	2.1
5	☐	100.000	103.617	2010620.47	0.8623	A	1.5
6	☐	200.000	198.164	3803559.17	1.6486	A	1.5

y = 0.0083 * x + 6.5572E-004
R = 0.9998
DL = 0.8392
BEC = 0.07885

Weight: <None>
Min Conc: <None>

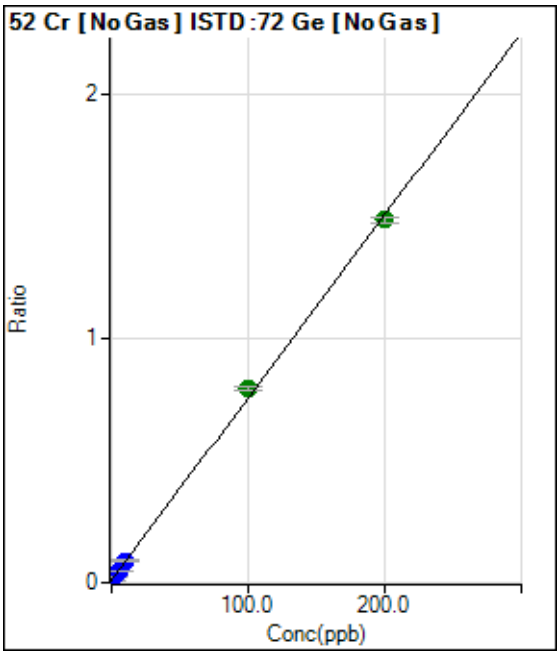
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1282.90	0.0024	P	25.7
2	☐	2.000	2.090	9093.20	0.0167	P	3.3
3	☐	5.000	5.492	21715.01	0.0401	P	5.7
4	☐	10.000	10.601	40412.58	0.0752	P	3.1
5	☐	100.000	102.247	387123.47	0.7046	P	1.8
6	☐	200.000	198.833	734034.27	1.3680	P	1.0

y = 0.0069 * x + 0.0024
R = 0.9999
DL = 0.266
BEC = 0.3453

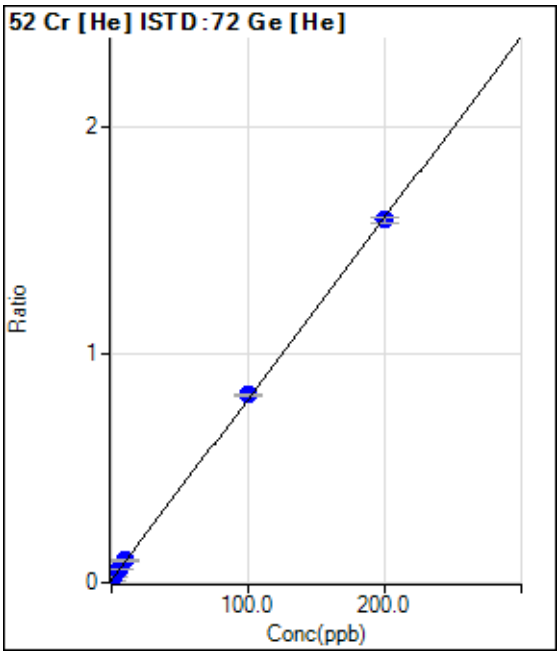
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23423.68	0.0101	P	2.5
2	☐	2.000	2.126	61018.84	0.0260	P	3.7
3	☐	5.000	5.450	118768.40	0.0509	P	1.2
4	☐	10.000	10.614	209263.46	0.0895	P	2.6
5	☐	100.000	104.982	1854363.46	0.7953	A	1.4
6	☐	200.000	197.466	3430763.80	1.4870	A	1.4

y = 0.0075 * x + 0.0101
R = 0.9996
DL = 0.1025
BEC = 1.354

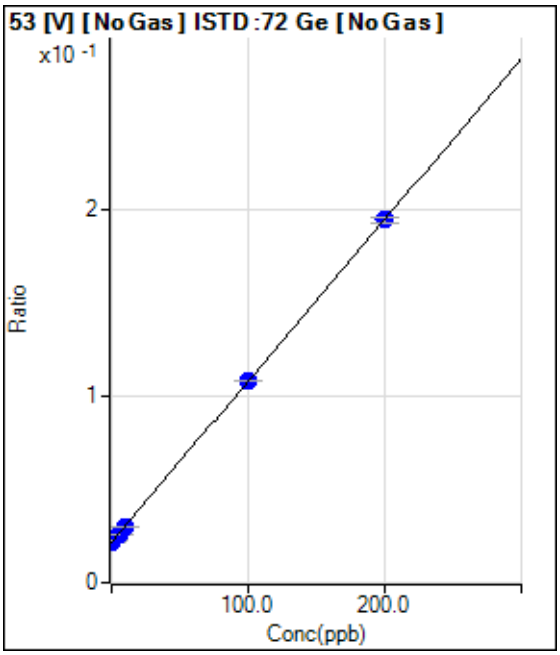
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6518.36	0.0121	P	4.7
2	☐	2.000	2.051	15395.55	0.0283	P	1.6
3	☐	5.000	5.567	30440.79	0.0562	P	0.4
4	☐	10.000	10.765	52363.70	0.0974	P	4.0
5	☐	100.000	102.155	451660.96	0.8221	P	1.0
6	☐	200.000	198.869	852606.08	1.5890	P	1.5

y = 0.0079 * x + 0.0121
R = 0.9999
DL = 0.2154
BEC = 1.521

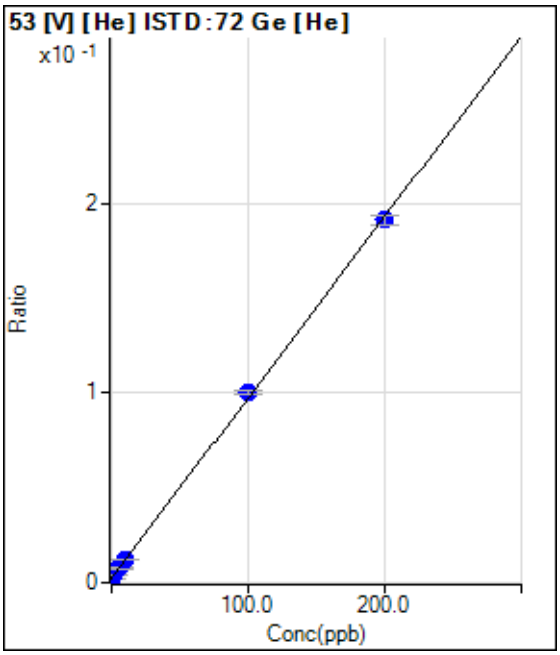
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50336.12	0.0218	P	4.5
2	☐	2.000	1.759	54592.39	0.0233	P	3.2
3	☐	5.000	5.017	60915.45	0.0261	P	0.6
4	☐	10.000	9.510	70115.96	0.0300	P	2.4
5	☐	100.000	100.230	253062.96	0.1085	P	0.7
6	☐	200.000	199.912	449533.90	0.1948	P	1.3

y = 8.6577E-004 * x + 0.0218
R = 1.0000
DL = 3.376
BEC = 25.13

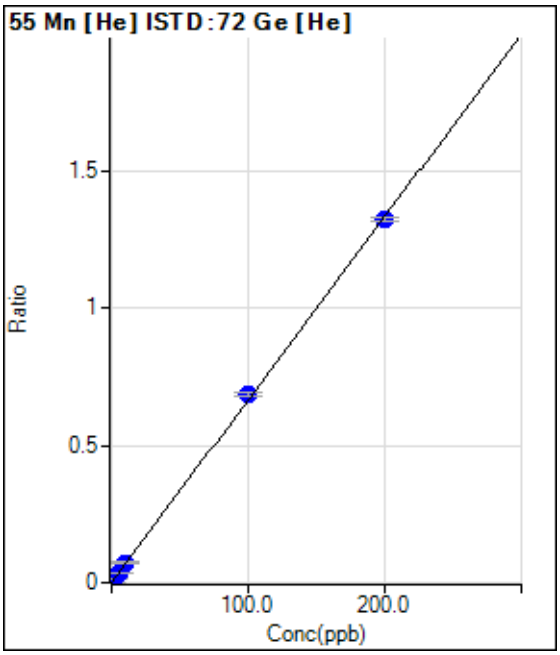
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1263.41	0.0023	P	5.6
2	☐	2.000	2.173	2393.58	0.0044	P	4.6
3	☐	5.000	5.594	4147.37	0.0077	P	6.5
4	☐	10.000	10.313	6528.34	0.0121	P	5.4
5	☐	100.000	102.984	55087.69	0.1003	P	2.7
6	☐	200.000	198.476	102532.21	0.1911	P	2.3

y = 9.5096E-004 * x + 0.0023
R = 0.9998
DL = 0.4116
BEC = 2.458

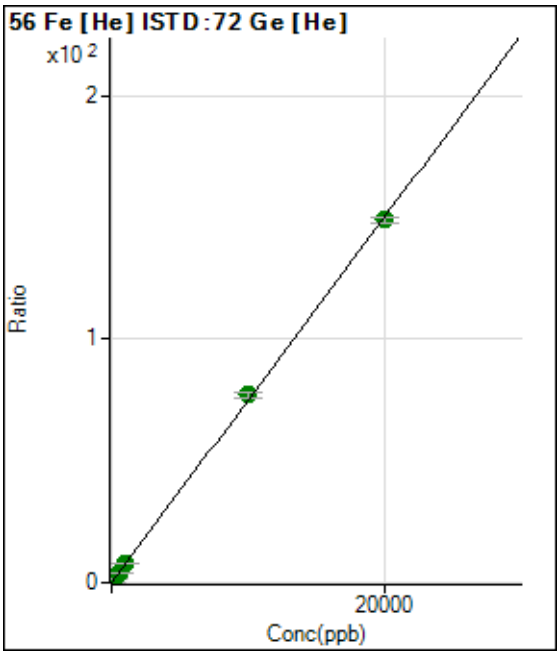
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0005	P	1.5
2	☐	2.000	2.273	8469.45	0.0156	P	2.3
3	☐	5.000	5.670	20682.62	0.0382	P	1.2
4	☐	10.000	10.916	39293.41	0.0731	P	2.2
5	☐	100.000	102.979	376769.24	0.6858	P	1.6
6	☐	200.000	198.445	708873.69	1.3211	P	1.2

y = 0.0067 * x + 4.5006E-004
R = 0.9998
DL = 0.002959
BEC = 0.06763

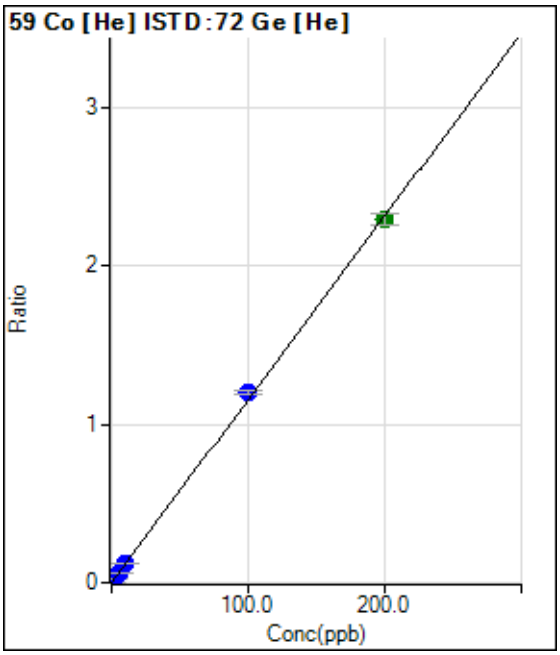
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13253.27	0.0245	P	5.1
2	☐	200.000	229.781	950205.46	1.7481	A	2.3
3	☐	500.000	565.964	2312725.07	4.2699	A	1.4
4	☐	1000.000	1079.056	4364202.43	8.1186	A	2.9
5	☐	10000.000	10275.364	42357893.53	77.1010	A	2.6
6	☐	20000.000	19856.418	79932167.14	148.9693	A	1.4

y = 0.0075 * x + 0.0245
R = 0.9999
DL = 0.4971
BEC = 3.269

Weight: <None>
Min Conc: <None>

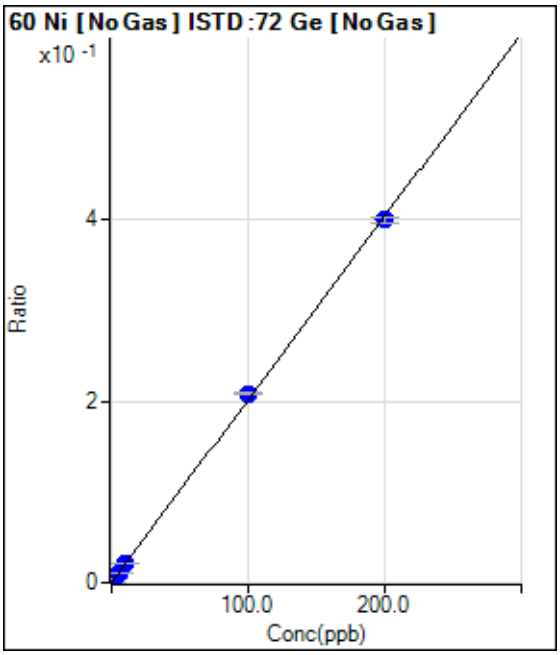


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	21.3
2	☐	2.000	2.263	14247.64	0.0262	P	1.7
3	☐	5.000	5.624	35239.17	0.0651	P	2.4
4	☐	10.000	10.833	67336.03	0.1253	P	2.5
5	☐	100.000	103.715	658652.67	1.1989	P	1.9
6	☐	200.000	198.083	1228531.47	2.2897	A	3.2

y = 0.0116 * x + 4.9299E-005
R = 0.9998
DL = 0.00273
BEC = 0.004265

Weight: <None>
Min Conc: <None>

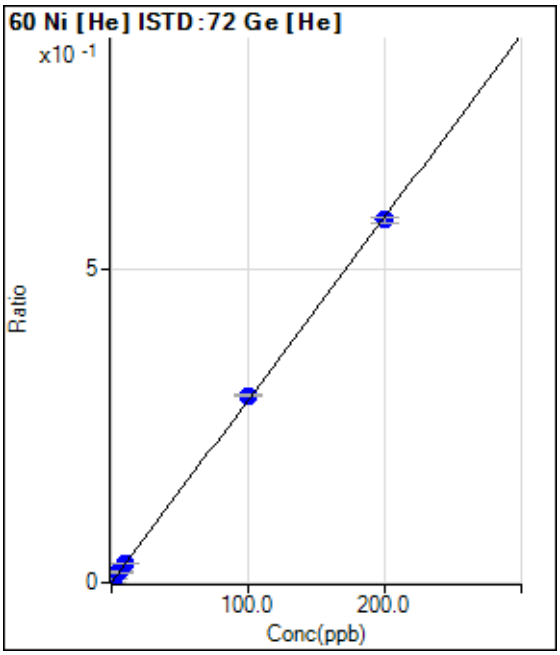
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0001	P	13.4
2	☐	2.000	2.214	10791.18	0.0046	P	2.9
3	☐	5.000	5.659	26940.23	0.0115	P	1.0
4	☐	10.000	10.709	50784.68	0.0217	P	1.6
5	☐	100.000	103.418	486256.31	0.2085	P	0.5
6	☐	200.000	198.237	921997.28	0.3996	P	1.6

y = 0.0020 * x + 1.3967E-004
R = 0.9998
DL = 0.02786
BEC = 0.06931

Weight: <None>
Min Conc: <None>

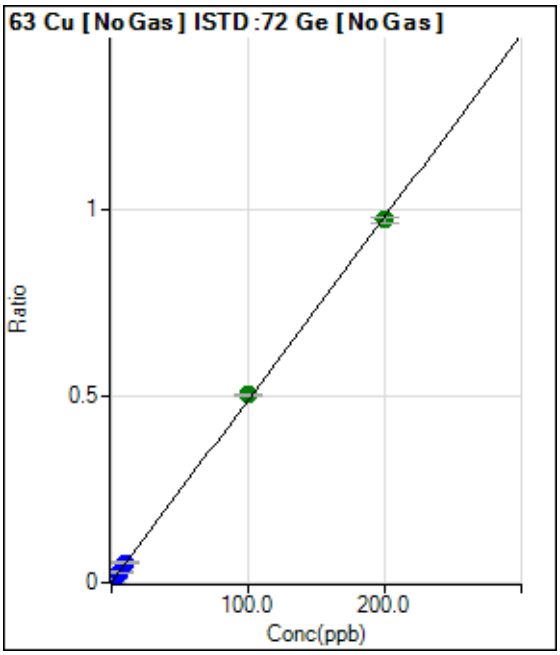


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0002	P	36.1
2	☐	2.000	2.256	3680.57	0.0068	P	10.9
3	☐	5.000	5.786	9249.91	0.0171	P	2.6
4	☐	10.000	10.709	16907.37	0.0315	P	1.8
5	☐	100.000	102.598	164658.01	0.2997	P	1.6
6	☐	200.000	198.643	311269.45	0.5801	P	1.5

y = 0.0029 * x + 1.8491E-004
R = 0.9999
DL = 0.06857
BEC = 0.06334

Weight: <None>
Min Conc: <None>

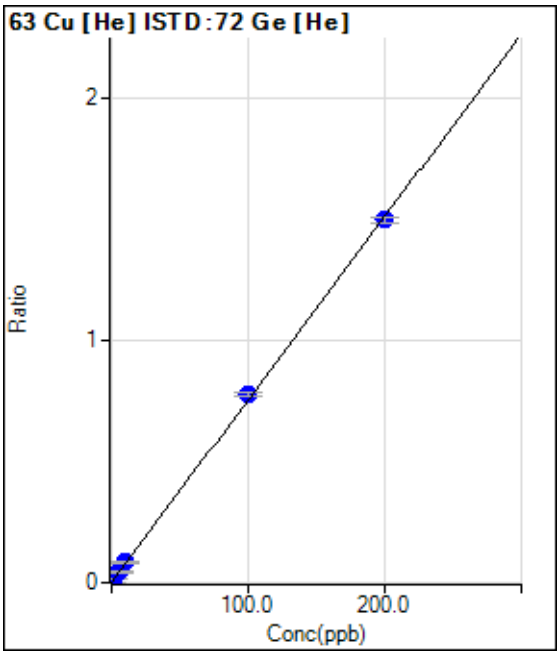
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1530.12	0.0007	P	17.7
2	☐	2.000	2.243	27314.49	0.0116	P	2.3
3	☐	5.000	5.633	65916.10	0.0282	P	1.7
4	☐	10.000	10.852	125774.41	0.0538	P	2.8
5	☐	100.000	102.723	1174255.17	0.5036	A	1.2
6	☐	200.000	198.578	2244755.12	0.9729	A	1.6

y = 0.0049 * x + 6.6171E-004
R = 0.9999
DL = 0.07157
BEC = 0.1351

Weight: <None>
Min Conc: <None>

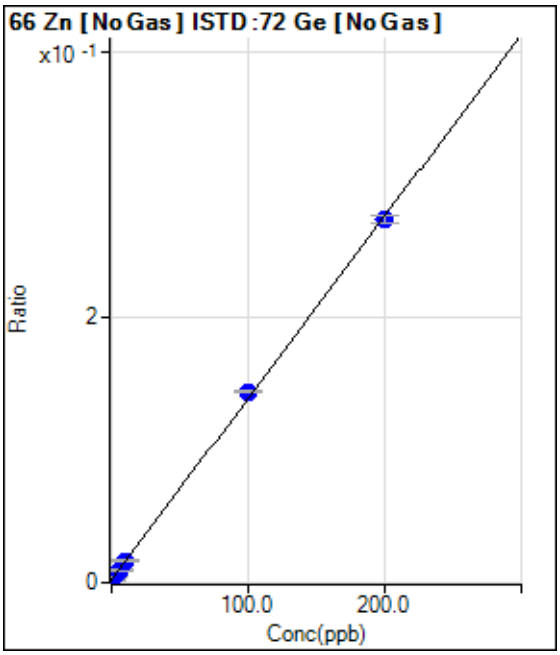


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533.36	0.0010	P	12.2
2	☐	2.000	2.153	9363.41	0.0172	P	5.6
3	☐	5.000	5.665	23680.93	0.0437	P	3.1
4	☐	10.000	10.929	44844.31	0.0834	P	1.9
5	☐	100.000	103.049	427584.23	0.7783	P	1.8
6	☐	200.000	198.411	803587.85	1.4976	P	1.3

y = 0.0075 * x + 9.8713E-004
R = 0.9998
DL = 0.04782
BEC = 0.1309

Weight: <None>
Min Conc: <None>

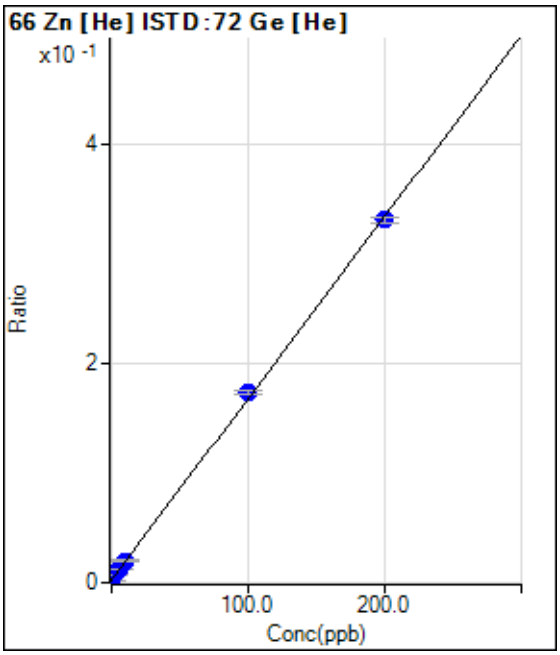
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4940.99	0.0021	P	4.1
2	☐	2.000	2.136	11875.37	0.0051	P	2.0
3	☐	5.000	5.280	21861.16	0.0094	P	2.5
4	☐	10.000	10.585	38882.61	0.0166	P	2.2
5	☐	100.000	103.702	336109.81	0.1442	P	1.0
6	☐	200.000	198.111	630828.08	0.2734	P	2.1

y = 0.0014 * x + 0.0021
R = 0.9998
DL = 0.193
BEC = 1.559

Weight: <None>
Min Conc: <None>

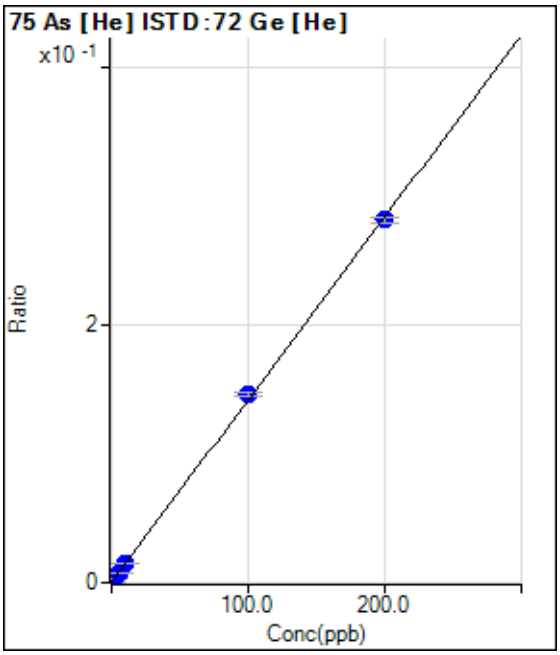


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1300.09	0.0024	P	11.5
2	☐	2.000	2.516	3577.21	0.0066	P	8.7
3	☐	5.000	5.666	6394.97	0.0118	P	1.0
4	☐	10.000	10.603	10751.12	0.0200	P	4.3
5	☐	100.000	103.199	95410.57	0.1737	P	1.4
6	☐	200.000	198.349	177921.57	0.3316	P	1.3

y = 0.0017 * x + 0.0024
R = 0.9998
DL = 0.5019
BEC = 1.449

Weight: <None>
Min Conc: <None>

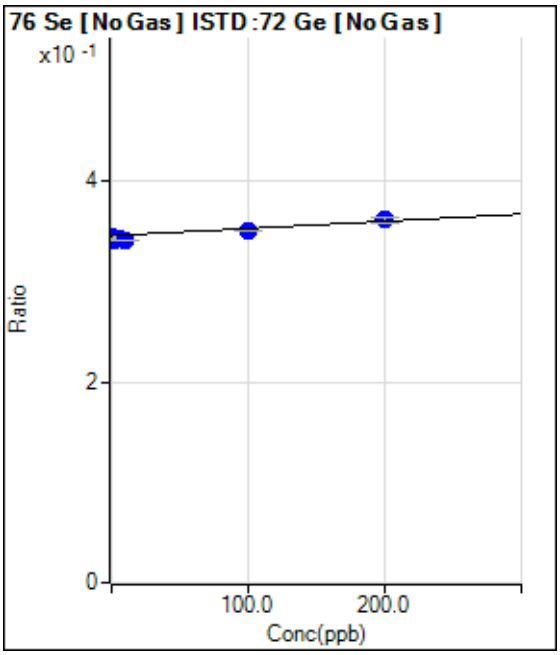
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.11	0.0003	P	17.0
2	☐	2.000	2.302	1955.71	0.0036	P	4.1
3	☐	5.000	5.434	4350.72	0.0080	P	3.6
4	☐	10.000	10.560	8221.43	0.0153	P	2.7
5	☐	100.000	102.645	80073.42	0.1457	P	1.9
6	☐	200.000	198.636	151181.54	0.2817	P	1.4

y = 0.0014 * x + 3.3495E-004
R = 0.9999
DL = 0.1209
BEC = 0.2364

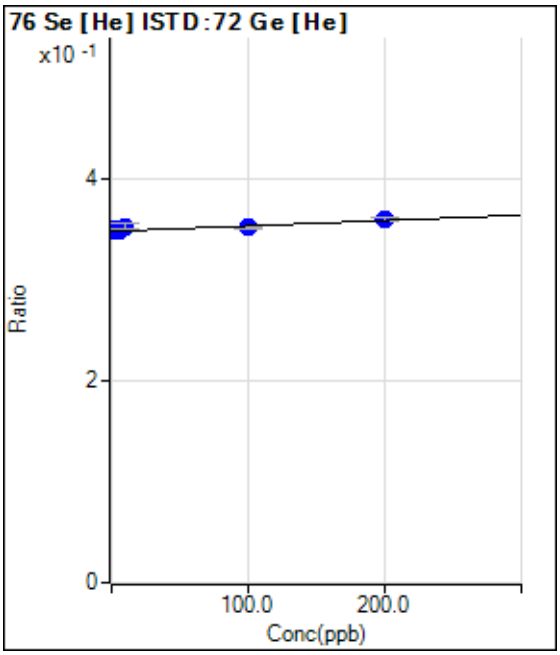
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	799582.59	0.3455	P	0.2
2	☐	2.000	-53.665	801369.47	0.3417	P	2.0
3	☐	5.000	-37.211	800191.81	0.3429	P	0.5
4	☐	10.000	-69.813	796232.18	0.3405	P	0.1
5	☐	100.000	75.654	818371.03	0.3510	P	0.1
6	☐	200.000	217.775	833331.50	0.3612	P	1.3

y = 7.1908E-005 * x + 0.3455
R = 0.9687
DL = 34.17
BEC = 4805

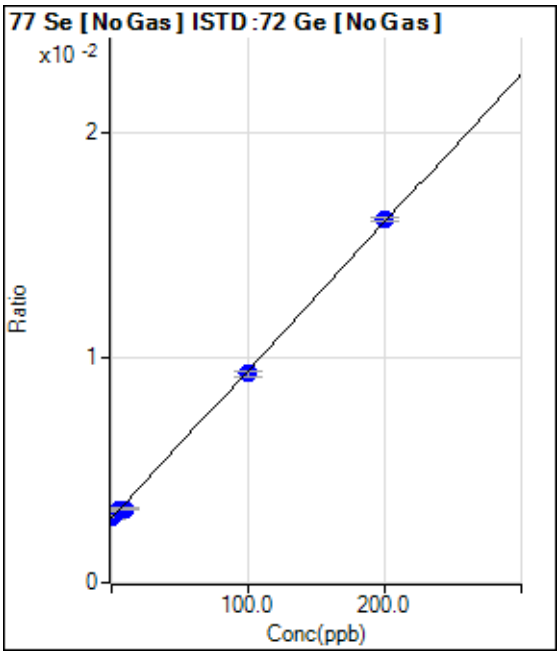
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188557.17	0.3488	P	0.2
2	☐	2.000	35.693	190624.66	0.3507	P	1.3
3	☐	5.000	15.636	189360.35	0.3496	P	0.1
4	☐	10.000	92.727	190156.00	0.3537	P	1.2
5	☐	100.000	70.652	193694.13	0.3526	P	0.5
6	☐	200.000	209.935	193166.01	0.3600	P	1.1

y = 5.3521E-005 * x + 0.3488
R = 0.8881
DL = 48.62
BEC = 6517

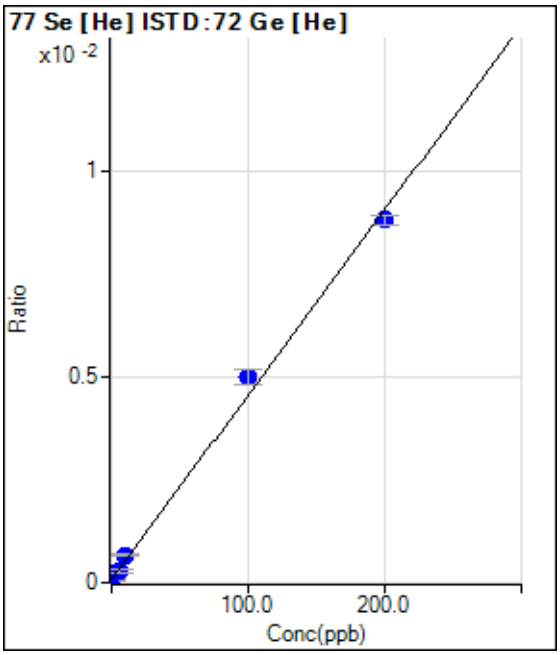
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6641.74	0.0029	P	5.6
2	☐	2.000	1.406	6948.57	0.0030	P	3.4
3	☐	5.000	5.624	7565.57	0.0032	P	3.4
4	☐	10.000	6.320	7685.69	0.0033	P	3.0
5	☐	100.000	97.505	21681.06	0.0093	P	2.8
6	☐	200.000	201.422	37258.50	0.0161	P	1.0

y = 6.5922E-005 * x + 0.0029
R = 0.9997
DL = 7.301
BEC = 43.55

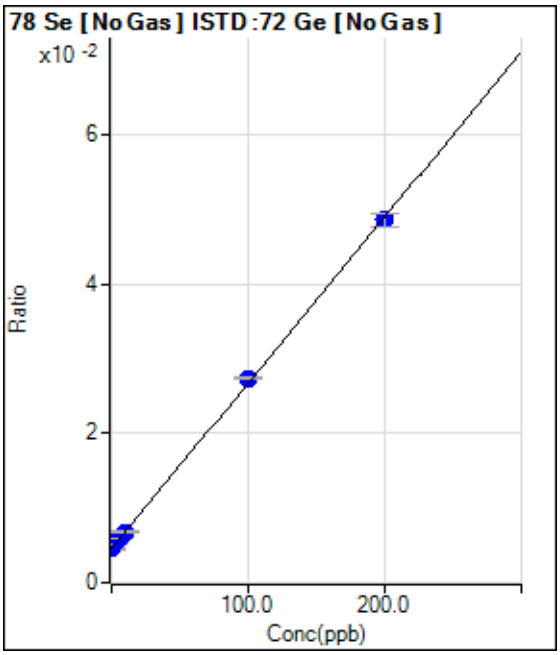
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	25.1
2	☐	2.000	3.691	130.00	0.0002	P	21.3
3	☐	5.000	4.525	150.00	0.0003	P	29.0
4	☐	10.000	13.145	356.68	0.0007	P	9.0
5	☐	100.000	110.121	2753.66	0.0050	P	7.2
6	☐	200.000	194.777	4727.59	0.0088	P	2.8

y = 4.4847E-005 * x + 7.3982E-005
R = 0.9981
DL = 1.241
BEC = 1.65

Weight: <None>
Min Conc: <None>

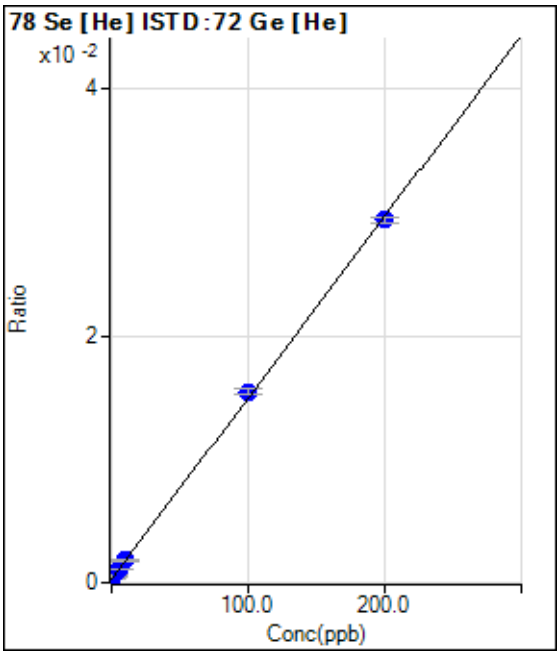


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10544.30	0.0046	P	3.1
2	☐	2.000	2.881	12189.08	0.0052	P	0.8
3	☐	5.000	6.046	13763.94	0.0059	P	1.6
4	☐	10.000	9.985	15829.53	0.0068	P	2.7
5	☐	100.000	103.027	63884.43	0.0274	P	0.9
6	☐	200.000	198.452	112019.89	0.0486	P	3.8

y = 2.2170E-004 * x + 0.0046
R = 0.9998
DL = 1.924
BEC = 20.55

Weight: <None>
Min Conc: <None>

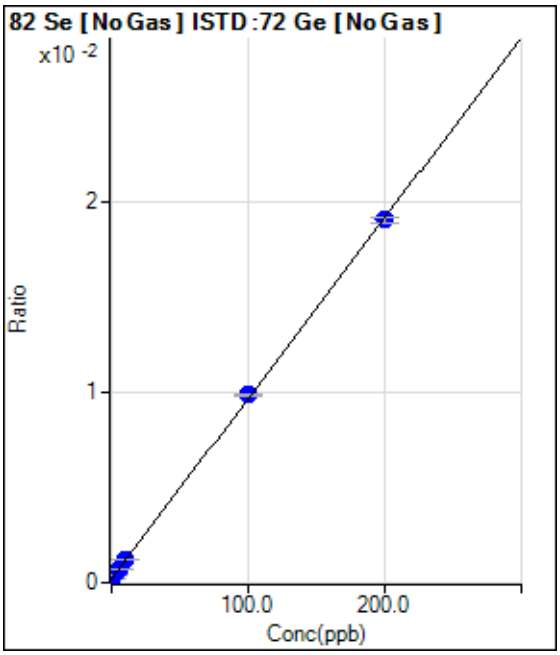
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.00	0.0003	P	8.1
2	☐	2.000	1.994	308.00	0.0006	P	7.7
3	☐	5.000	5.256	566.68	0.0010	P	1.3
4	☐	10.000	10.433	971.37	0.0018	P	4.0
5	☐	100.000	103.553	8511.37	0.0155	P	2.8
6	☐	200.000	198.195	15775.90	0.0294	P	1.8

y = 1.4697E-004 * x + 2.7375E-004
R = 0.9998
DL = 0.4547
BEC = 1.863

Weight: <None>
Min Conc: <None>

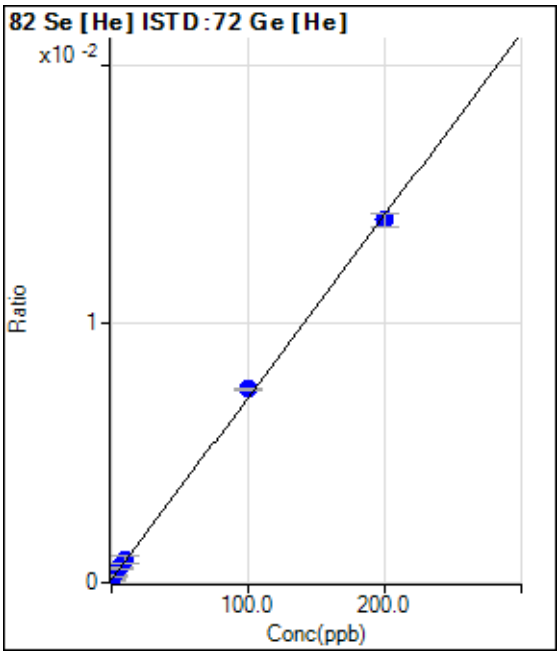


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	456.68	0.0002	P	27.3
2	☐	2.000	1.939	893.38	0.0004	P	12.4
3	☐	5.000	5.503	1680.13	0.0007	P	2.0
4	☐	10.000	11.076	2920.37	0.0012	P	1.2
5	☐	100.000	101.863	23010.02	0.0099	P	1.8
6	☐	200.000	199.003	44049.19	0.0191	P	1.8

y = 9.4945E-005 * x + 1.9739E-004
R = 0.9999
DL = 1.704
BEC = 2.079

Weight: <None>
Min Conc: <None>

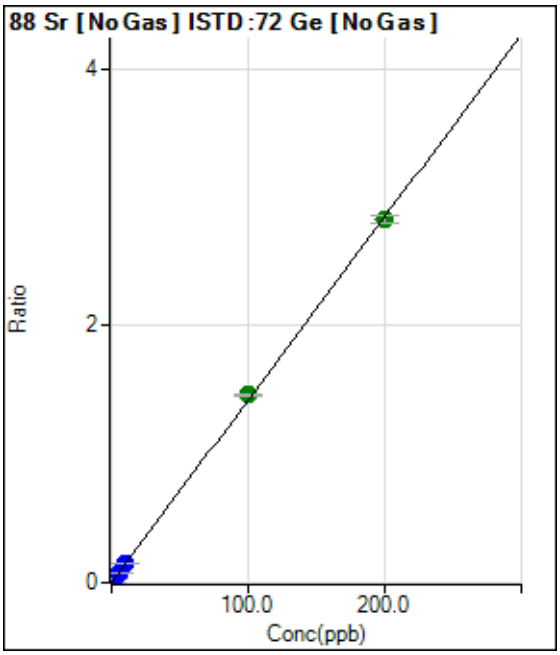
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	24.4
2	☐	2.000	2.070	143.34	0.0003	P	41.5
3	☐	5.000	6.290	303.34	0.0006	P	8.3
4	☐	10.000	11.183	486.68	0.0009	P	31.9
5	☐	100.000	104.859	4120.70	0.0075	P	1.0
6	☐	200.000	197.478	7522.25	0.0140	P	3.5

y = 7.0410E-005 * x + 1.1717E-004
R = 0.9996
DL = 1.216
BEC = 1.664

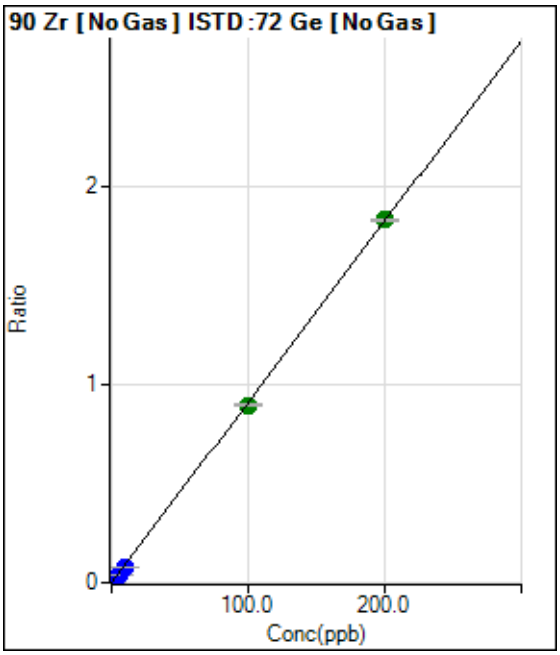
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	803.37	0.0003	P	14.1
2	☐	2.000	2.164	73038.28	0.0311	P	3.0
3	☐	5.000	5.473	182587.91	0.0782	P	0.8
4	☐	10.000	10.673	355925.11	0.1522	P	3.0
5	☐	100.000	102.773	3411184.32	1.4630	A	1.2
6	☐	200.000	198.567	6520503.24	2.8264	A	2.0

y = 0.0142 * x + 3.4732E-004
R = 0.9999
DL = 0.01036
BEC = 0.0244

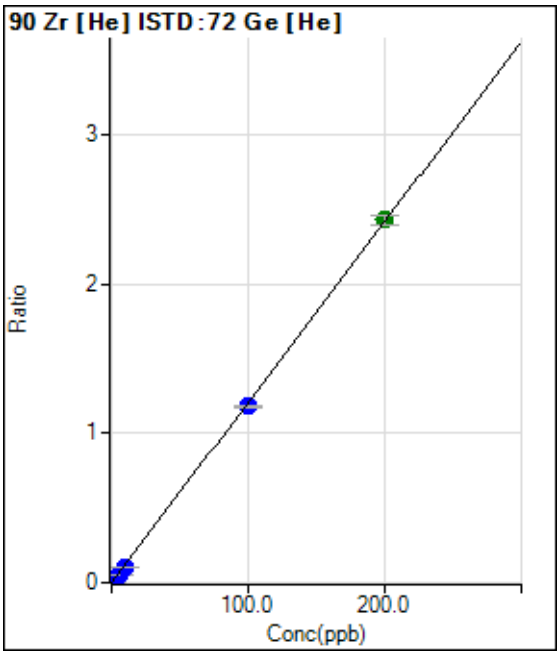
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1453.45	0.0006	P	4.7
2	☐	2.000	1.632	36409.85	0.0155	P	3.2
3	☐	5.000	4.251	92055.30	0.0394	P	0.9
4	☐	10.000	8.863	190697.02	0.0816	P	2.5
5	☐	100.000	98.339	2095206.06	0.8986	A	1.6
6	☐	200.000	200.910	4234372.75	1.8353	A	0.5

y = 0.0091 * x + 6.2799E-004
R = 1.0000
DL = 0.009759
BEC = 0.06877

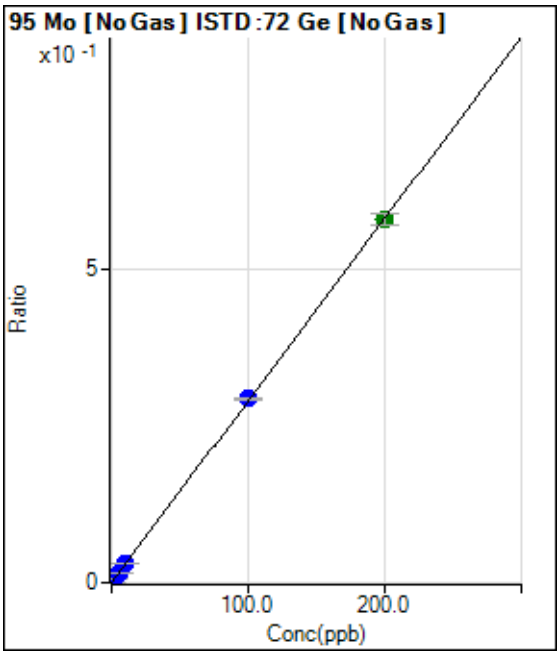
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	876.71	0.0016	P	7.7
2	☐	2.000	1.652	11732.03	0.0216	P	1.9
3	☐	5.000	4.260	28764.60	0.0531	P	3.9
4	☐	10.000	8.788	57958.78	0.1078	P	2.9
5	☐	100.000	97.702	649539.62	1.1823	P	1.1
6	☐	200.000	201.232	1305738.26	2.4334	A	2.4

y = 0.0121 * x + 0.0016
R = 0.9999
DL = 0.03088
BEC = 0.1342

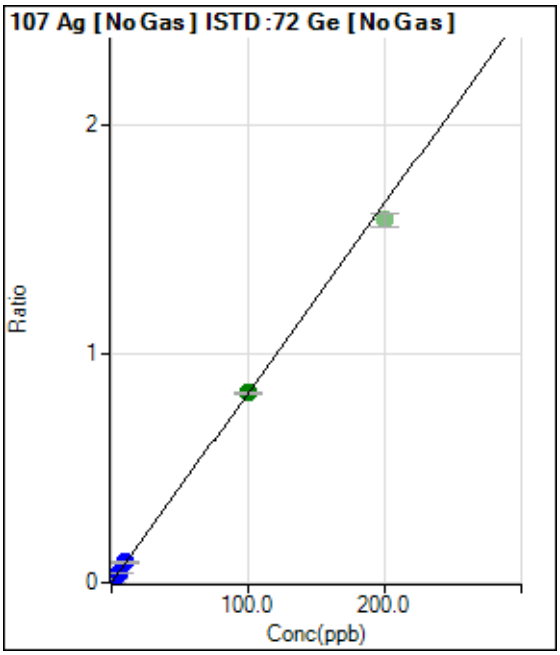
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	13.9
2	☐	2.000	2.138	14778.39	0.0063	P	8.1
3	☐	5.000	5.320	36216.23	0.0155	P	0.8
4	☐	10.000	10.422	70791.00	0.0303	P	3.8
5	☐	100.000	101.007	681772.36	0.2924	P	1.2
6	☐	200.000	199.466	1331941.85	0.5773	A	3.3

y = 0.0029 * x + 1.2236E-004
R = 1.0000
DL = 0.01764
BEC = 0.04229

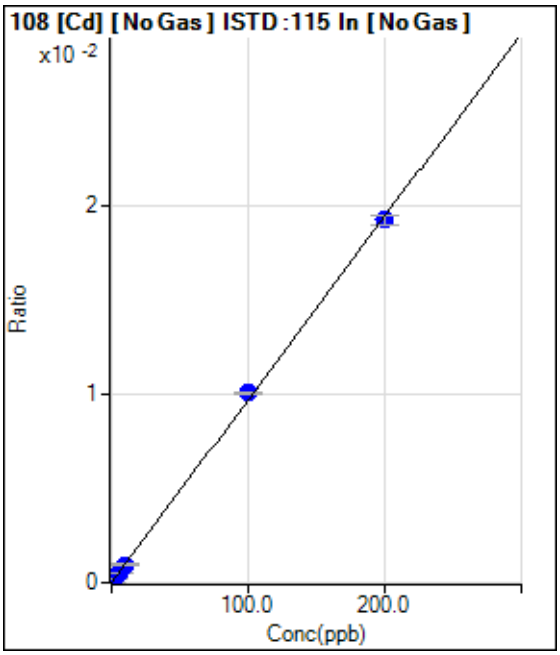
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	770.04	0.0003	P	6.7
2	☐	2.000	2.170	42879.56	0.0183	P	4.2
3	☐	5.000	5.429	105602.27	0.0452	P	1.6
4	☐	10.000	10.695	207659.73	0.0888	P	2.4
5	☐	100.000	99.906	1928158.83	0.8269	A	1.4
6	☑	200.000		3653483.70	1.5837	A	3.5

y = 0.0083 * x + 3.3276E-004
R = 1.0000
DL = 0.008063
BEC = 0.04022

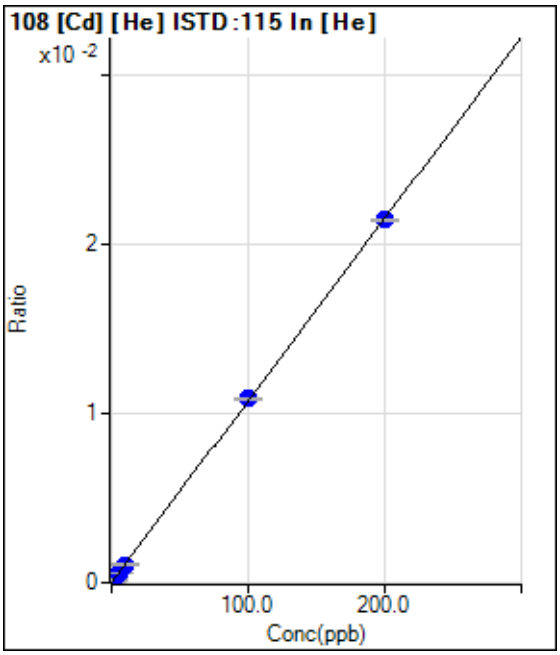
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	100.6
2	☐	2.000	2.321	740.03	0.0002	P	12.5
3	☐	5.000	5.012	1580.13	0.0005	P	4.7
4	☐	10.000	9.835	3083.75	0.0010	P	9.7
5	☐	100.000	103.519	31975.61	0.0101	P	0.8
6	☐	200.000	198.245	60210.50	0.0193	P	2.7

y = 9.7121E-005 * x + 3.1182E-006
R = 0.9998
DL = 0.09688
BEC = 0.03211

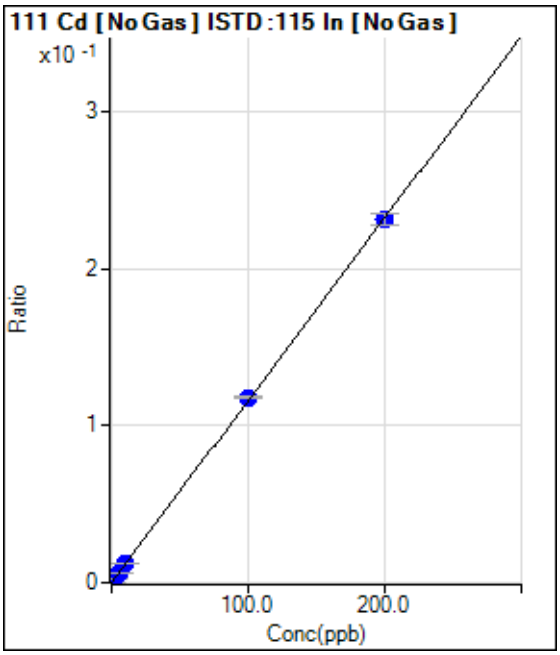
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	100.4
2	☐	2.000	1.632	193.34	0.0002	P	37.3
3	☐	5.000	4.972	566.69	0.0005	P	4.2
4	☐	10.000	9.889	1113.41	0.0011	P	7.2
5	☐	100.000	101.110	11368.39	0.0109	P	1.0
6	☐	200.000	199.455	22001.95	0.0215	P	0.3

y = 1.0752E-004 * x + 9.6538E-006
R = 1.0000
DL = 0.2705
BEC = 0.08979

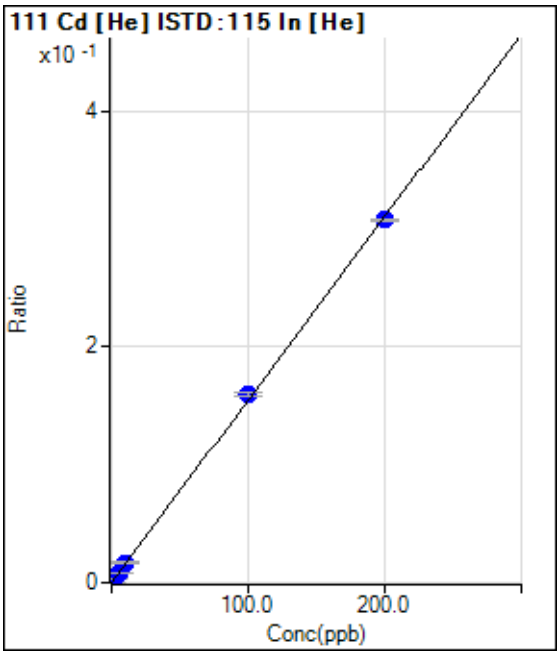
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.40	0.0000	P	-164.9
2	☐	2.000	2.151	8065.74	0.0025	P	2.0
3	☐	5.000	5.408	20199.73	0.0063	P	3.5
4	☐	10.000	10.610	39561.04	0.0123	P	1.1
5	☐	100.000	101.646	374552.68	0.1178	P	0.9
6	☐	200.000	199.135	721633.94	0.2308	P	3.0

y = 0.0012 * x - 2.3183E-006
R = 1.0000
DL = 0.009893
BEC = -0.002

Weight: <None>
Min Conc: <None>

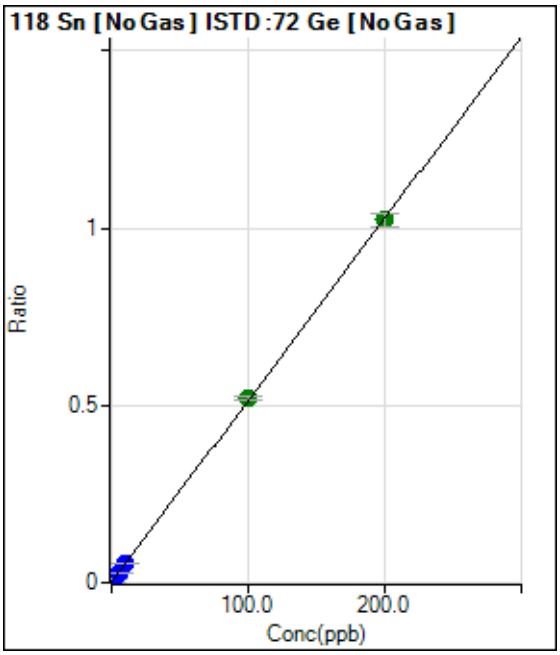


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.73	0.0000	P	100.4
2	☐	2.000	2.138	3457.92	0.0033	P	4.8
3	☐	5.000	5.411	8740.69	0.0084	P	2.4
4	☐	10.000	10.816	17404.88	0.0168	P	5.4
5	☐	100.000	102.921	166650.54	0.1595	P	1.4
6	☐	200.000	198.487	315432.40	0.3076	P	0.8

y = 0.0015 * x + 1.0359E-005
R = 0.9999
DL = 0.02014
BEC = 0.006685

Weight: <None>
Min Conc: <None>

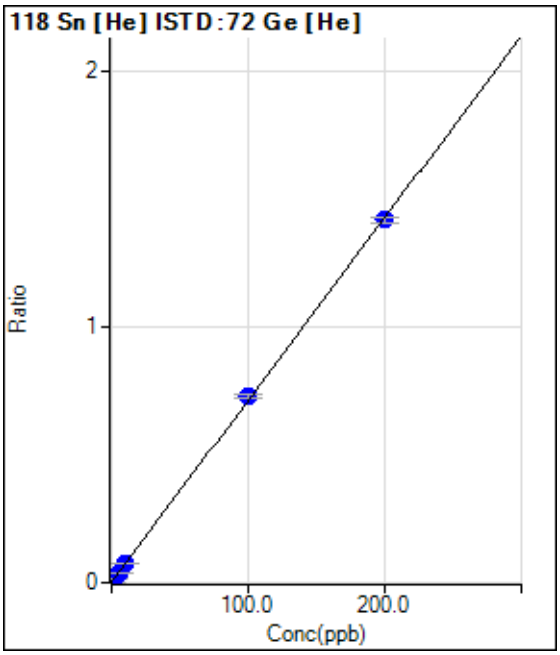
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2376.93	0.0010	P	9.0
2	☐	2.000	2.090	27525.79	0.0117	P	3.1
3	☐	5.000	5.310	65898.31	0.0282	P	1.5
4	☐	10.000	10.574	129092.73	0.0552	P	2.4
5	☐	100.000	101.205	1211565.11	0.5196	A	2.3
6	☐	200.000	199.360	2359208.35	1.0226	A	3.5

y = 0.0051 * x + 0.0010
R = 1.0000
DL = 0.05422
BEC = 0.2004

Weight: <None>
Min Conc: <None>

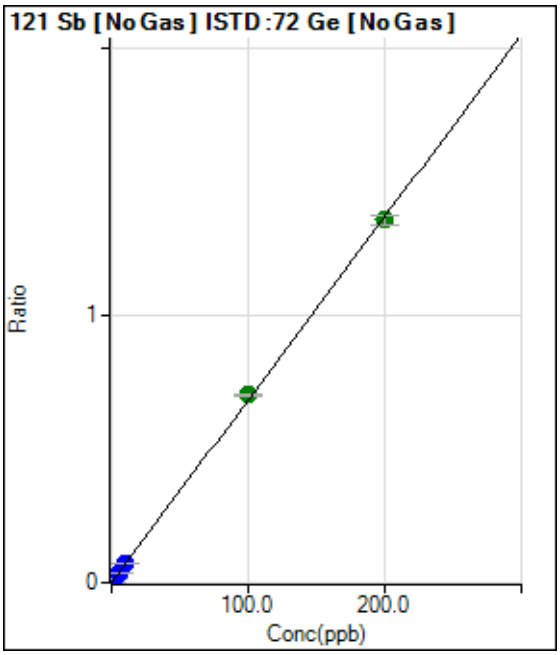


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	846.71	0.0016	P	3.8
2	☐	2.000	2.160	9216.76	0.0170	P	2.7
3	☐	5.000	5.519	22142.26	0.0409	P	2.3
4	☐	10.000	10.588	41385.55	0.0770	P	2.8
5	☐	100.000	101.901	399673.34	0.7275	P	2.1
6	☐	200.000	199.006	761521.39	1.4193	P	1.4

y = 0.0071 * x + 0.0016
R = 0.9999
DL = 0.02525
BEC = 0.2199

Weight: <None>
Min Conc: <None>

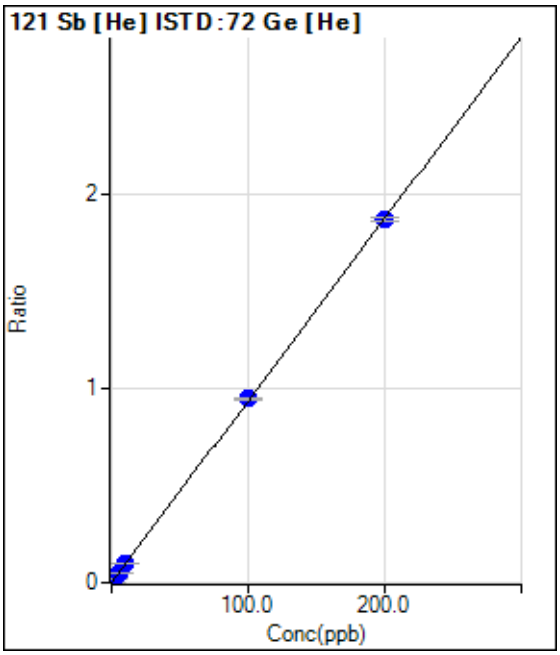
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	633.36	0.0003	P	2.6
2	☐	2.000	2.172	35441.57	0.0151	P	3.4
3	☐	5.000	5.288	84943.87	0.0364	P	0.1
4	☐	10.000	10.287	164926.58	0.0705	P	2.7
5	☐	100.000	102.791	1637834.14	0.7024	A	1.1
6	☐	200.000	198.581	3130068.81	1.3568	A	2.4

y = 0.0068 * x + 2.7367E-004
R = 0.9999
DL = 0.003155
BEC = 0.04006

Weight: <None>
Min Conc: <None>

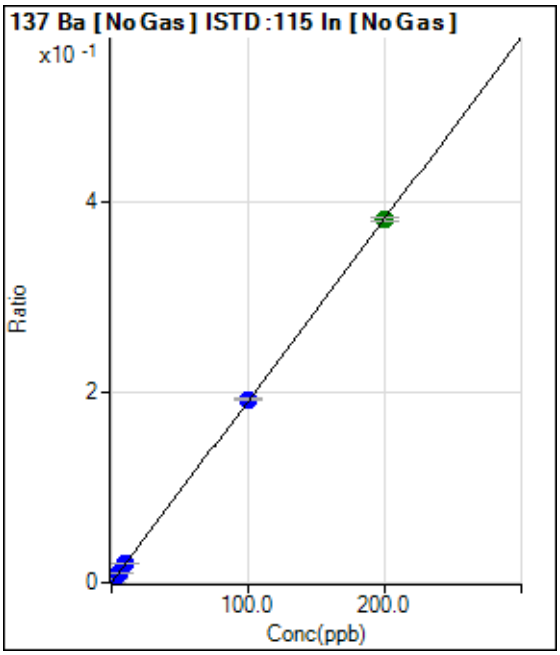


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0004	P	4.7
2	☐	2.000	2.175	11318.40	0.0208	P	4.9
3	☐	5.000	5.489	28127.11	0.0519	P	0.6
4	☐	10.000	10.349	52428.07	0.0975	P	3.3
5	☐	100.000	100.972	520838.22	0.9480	P	1.4
6	☐	200.000	199.482	1004746.52	1.8725	P	1.2

y = 0.0094 * x + 4.1306E-004
R = 1.0000
DL = 0.006262
BEC = 0.04401

Weight: <None>
Min Conc: <None>

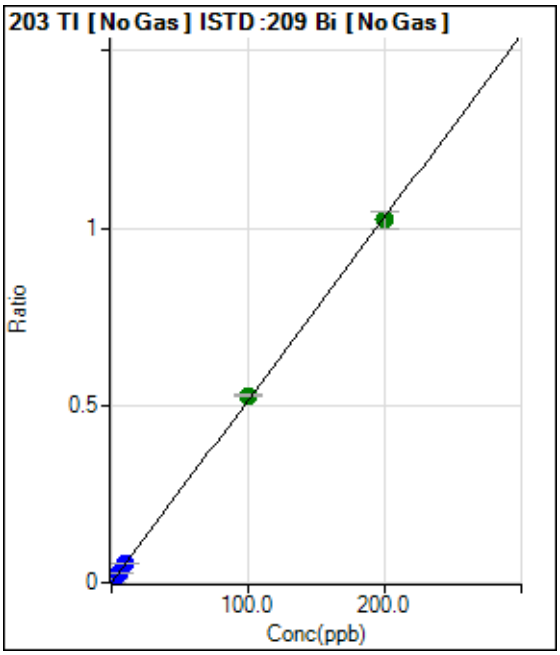
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0001	P	28.0
2	☐	2.000	2.122	13303.71	0.0041	P	4.2
3	☐	5.000	5.285	32731.47	0.0102	P	1.5
4	☐	10.000	10.372	63940.50	0.0199	P	0.9
5	☐	100.000	100.781	612409.13	0.1926	P	1.3
6	☐	200.000	199.582	1192783.08	0.3814	A	1.0

y = 0.0019 * x + 5.1640E-005
R = 1.0000
DL = 0.02267
BEC = 0.02702

Weight: <None>
Min Conc: <None>

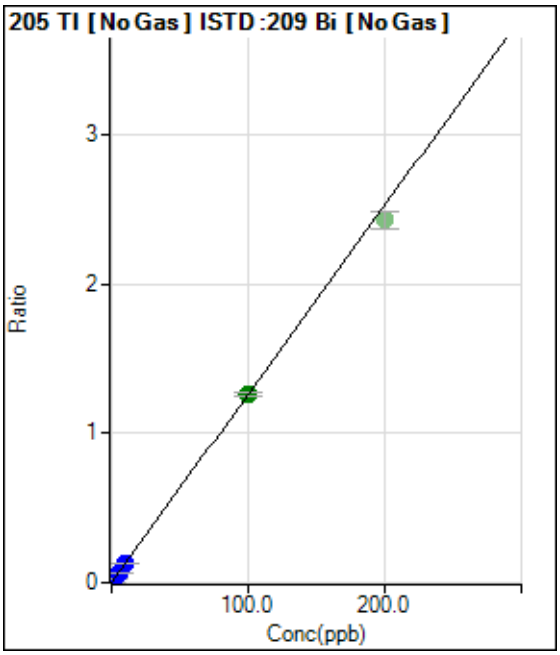


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	270.01	0.0001	P	12.9
2	☐	2.000	2.014	32058.05	0.0105	P	0.9
3	☐	5.000	5.324	85259.81	0.0275	P	1.4
4	☐	10.000	10.601	167772.73	0.0547	P	1.7
5	☐	100.000	102.641	1639570.29	0.5287	A	1.5
6	☐	200.000	198.641	3077682.45	1.0231	A	4.6

y = 0.0052 * x + 8.9742E-005
R = 0.9999
DL = 0.006753
BEC = 0.01743

Weight: <None>
Min Conc: <None>

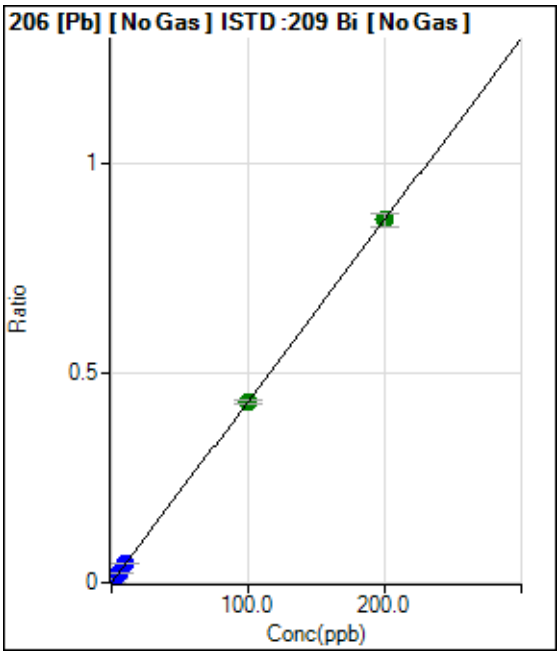
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	726.70	0.0002	P	5.9
2	☐	2.000	1.941	75816.12	0.0247	P	1.5
3	☐	5.000	5.274	207057.47	0.0668	P	2.2
4	☐	10.000	10.431	404676.83	0.1319	P	1.4
5	☐	100.000	99.944	3913119.94	1.2618	A	1.9
6	☑	200.000		7309861.56	2.4301	A	4.7

y = 0.0126 * x + 2.4155E-004
R = 1.0000
DL = 0.003386
BEC = 0.01914

Weight: <None>
Min Conc: <None>

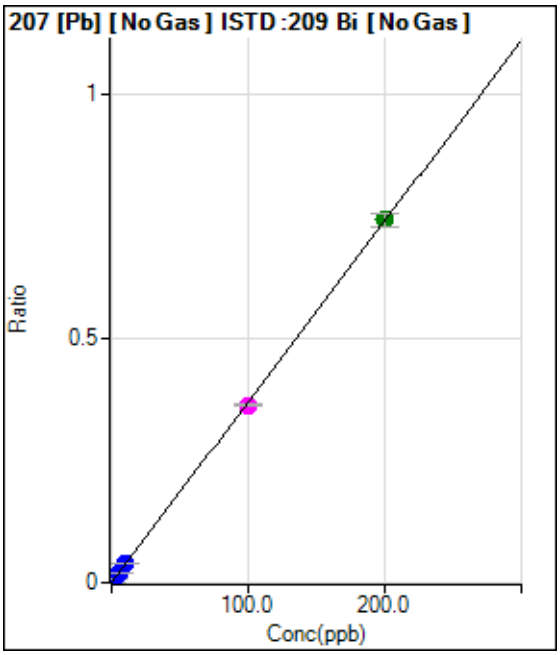


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310.01	0.0001	P	19.7
2	☐	2.000	2.123	28512.91	0.0093	P	1.9
3	☐	5.000	5.154	69546.37	0.0224	P	1.8
4	☐	10.000	10.433	139014.60	0.0453	P	1.9
5	☐	100.000	99.870	1342622.58	0.4329	A	1.5
6	☐	200.000	200.038	2608213.66	0.8670	A	4.0

y = 0.0043 * x + 1.0304E-004
R = 1.0000
DL = 0.01407
BEC = 0.02378

Weight: <None>
Min Conc: <None>

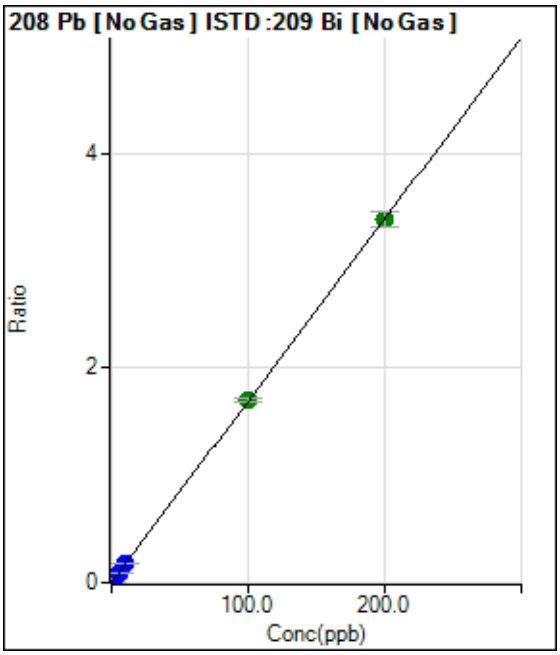
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	270.01	0.0001	P	29.2
2	☐	2.000	2.100	24116.89	0.0079	P	2.4
3	☐	5.000	5.300	61130.18	0.0197	P	1.6
4	☐	10.000	10.469	119260.54	0.0389	P	1.8
5	☐	100.000	98.374	1130551.78	0.3646	M	1.8
6	☐	200.000	200.781	2238210.80	0.7440	A	3.5

y = 0.0037 * x + 8.9779E-005
R = 0.9999
DL = 0.02124
BEC = 0.02423

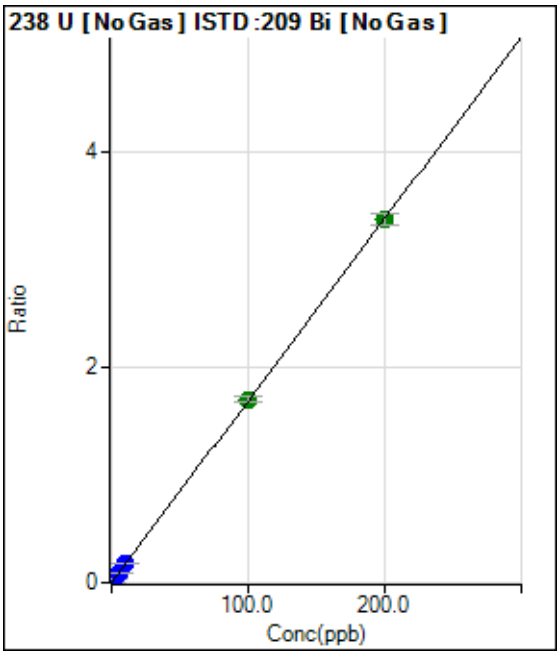
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1206.72	0.0004	P	5.9
2	☐	2.000	2.158	113113.37	0.0369	P	1.8
3	☐	5.000	5.316	279936.37	0.0903	P	1.5
4	☐	10.000	10.574	549994.45	0.1793	P	1.7
5	☐	100.000	100.561	5277011.30	1.7016	A	1.3
6	☐	200.000	199.681	10163066.77	3.3784	A	4.2

y = 0.0169 * x + 4.0109E-004
R = 1.0000
DL = 0.00417
BEC = 0.02371

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.35	0.0001	P	19.3
2	☐	2.000	2.086	108400.84	0.0354	P	1.1
3	☐	5.000	5.200	272591.80	0.0880	P	0.7
4	☐	10.000	10.371	537779.75	0.1753	P	1.5
5	☐	100.000	100.973	5288675.86	1.7054	A	2.1
6	☐	200.000	199.489	10136517.77	3.3692	A	3.3

y = 0.0169 * x + 1.4076E-004

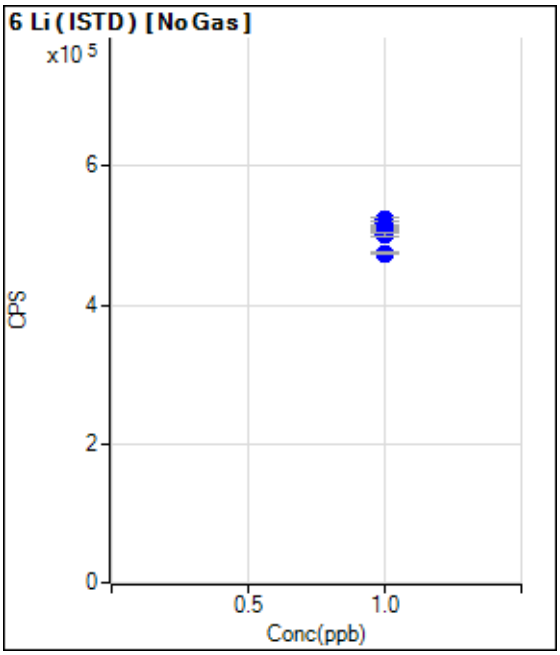
R = 1.0000

DL = 0.004822

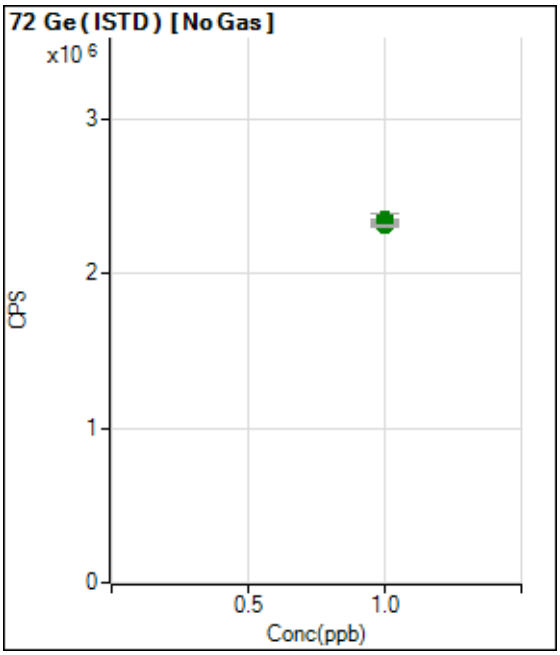
BEC = 0.008335

Weight: <None>

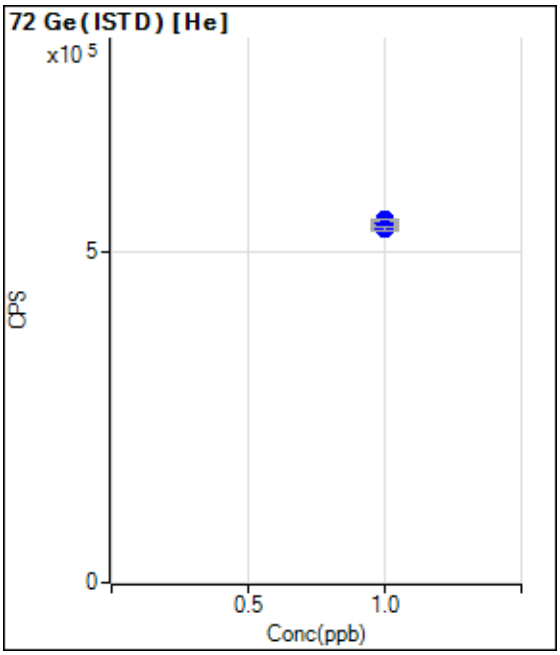
Min Conc: <None>



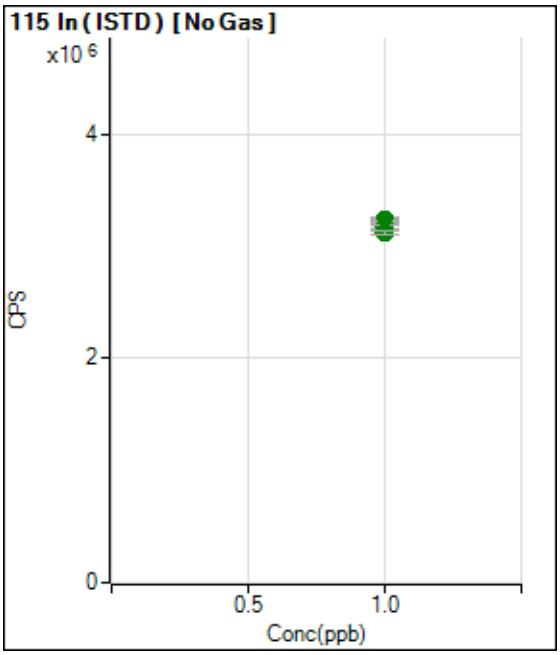
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		522840.58		P	1.0
2	☐	1.000		518541.33		P	0.9
3	☐	1.000		511716.93		P	0.5
4	☐	1.000		507535.56		P	0.3
5	☐	1.000		502067.00		P	1.1
6	☐	1.000		474987.83		P	0.8



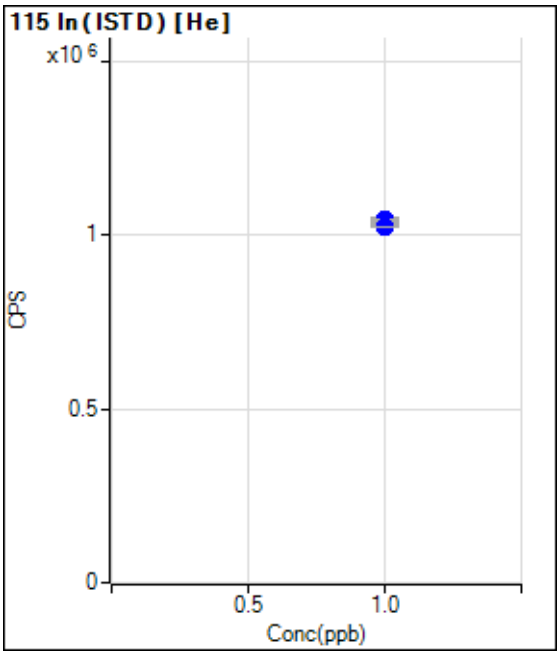
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2314030.96		A	0.8
2	☐	1.000		2346339.71		A	3.1
3	☐	1.000		2333847.41		A	0.1
4	☐	1.000		2338287.83		A	0.9
5	☐	1.000		2331673.20		A	0.5
6	☐	1.000		2307241.27		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		540641.03		P	0.9
2	☐	1.000		543628.40		P	1.1
3	☐	1.000		541636.16		P	0.0
4	☐	1.000		537586.89		P	0.4
5	☐	1.000		549408.68		P	0.3
6	☐	1.000		536607.84		P	1.2

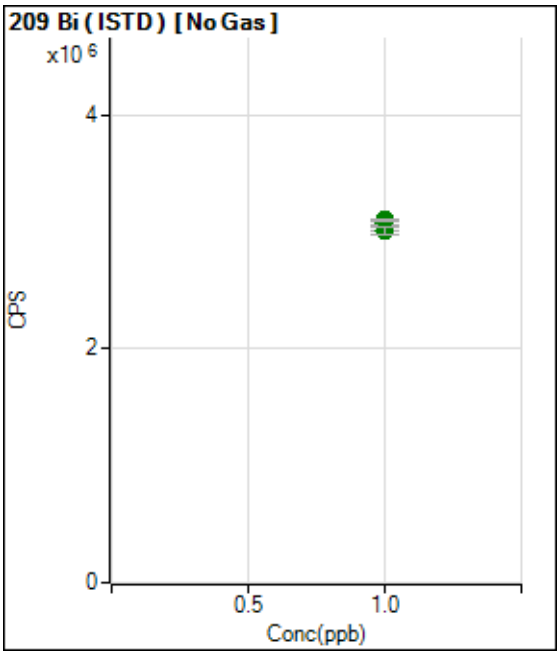


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3225981.06		A	1.0
2	☐	1.000		3238717.82		A	1.9
3	☐	1.000		3224675.71		A	1.2
4	☐	1.000		3217558.59		A	0.6
5	☐	1.000		3179456.48		A	1.2
6	☐	1.000		3127471.87		A	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1044128.38		M	1.2
2	☐	1.000		1040371.88		A	1.6
3	☐	1.000		1041194.08		P	0.2
4	☐	1.000		1037543.16		M	0.8
5	☐	1.000		1044811.81		P	0.2
6	☐	1.000		1025493.29		P	0.3

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3008975.06		A	0.4
2	☐	1.000		3064099.23		A	0.1
3	☐	1.000		3099412.97		A	1.0
4	☐	1.000		3068153.50		A	1.1
5	☐	1.000		3101280.89		A	0.7
6	☐	1.000		3009931.00		A	2.0

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:22:30-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	33615	0.00
Be	9	1	No Gas	35	187.04
V	51	2	He	1283	2.02
Cr	52	2	He	6518	0.07
Fe	56	2	He	13253	0.04
Se	78	2	He	148	5.48
As	75	2	He	181	9.44
Ca	44	2	He	487	0.88
Na	23	2	He	18322	0.01
Mg	24	2	He	387	3.92
K	39	2	He	76428	0.00
Mn	55	2	He	243	0.97
Co	59	2	He	27	81.19
Ni	60	2	He	100	36.06
Cu	63	2	He	533	2.15
Zn	66	2	He	1300	0.89
Al	27	2	He	530	2.22
B	11	1	No Gas	5981	0.03
Al	27	1	No Gas	18623	0.01
Si	28	1	No Gas	259624	0.00
Ag	107	1	No Gas	770	0.88
Sr	88	1	No Gas	803	1.71
Mo	95	1	No Gas	283	5.19
Sn	118	1	No Gas	2377	0.41
Sb	121	1	No Gas	633	0.52
Ba	137	1	No Gas	167	17.01
Tl	205	1	No Gas	727	0.77
Tl	203	1	No Gas	270	4.75
Pb	208	1	No Gas	1207	0.46
U	238	1	No Gas	423	4.48
Ca	43	2	He	7	1299.04
Sb	121	2	He	223	2.31
Ti	47	2	He	10	1000.00
Cu	63	1	No Gas	1530	1.12

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	522841	0.97

Calibration Blank Report

Ge	72	2	He	540641	0.91
Ge	72	1	No Gas	2314031	0.76
Bi	209	1	No Gas	3008975	0.36

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:24:26-05:00
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	4718	0.14
V	51	2	He	9093	0.04
Cr	52	2	He	15396	0.00
Fe	56	2	He	950205	0.00
Se	78	2	He	308	2.19
As	75	2	He	1956	0.26
Ca	44	2	He	6905	0.05
Na	23	2	He	168103	0.00
Mg	24	2	He	92364	0.00
K	39	2	He	207670	0.00
Mn	55	2	He	8469	0.04
Co	59	2	He	14248	0.02
Ni	60	2	He	3681	0.30
Cu	63	2	He	9363	0.06
Zn	66	2	He	3577	0.25
Al	27	2	He	1257	0.35
B	11	1	No Gas	17830	0.01
Al	27	1	No Gas	40141	0.00
Si	28	1	No Gas	330279	0.00
Ag	107	1	No Gas	42880	0.00
Cd	111	1	No Gas	8066	0.00
Sr	88	1	No Gas	73038	0.00
Mo	95	1	No Gas	14778	0.03
Sn	118	1	No Gas	27526	0.00
Sb	121	1	No Gas	35442	0.01
Ba	137	1	No Gas	13304	0.04
Tl	205	1	No Gas	75816	0.00
Tl	203	1	No Gas	32058	0.00
Pb	208	1	No Gas	113113	0.00
U	238	1	No Gas	108401	0.00
Ca	43	2	He	350	3.56
Sb	121	2	He	11318	0.04
Cu	63	1	No Gas	27314	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	518541	0.94	522841	99.18	70	120	
Ge	72	2	He	543628	1.06	540641	100.55	70	120	
Ge	72	1	No Gas	2346340	3.09	2314031	101.40	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3064099	0.06	3008975	101.83	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\051524B.b
Acq Date Time	2024-05-15T11:26:21-05:00
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	11536	0.01
V	51	2	He	21715	0.03
Cr	52	2	He	30441	0.00
Fe	56	2	He	2312725	0.00
Se	78	2	He	567	0.22
As	75	2	He	4351	0.08
Ca	44	2	He	16256	0.03
Na	23	2	He	397676	0.00
Mg	24	2	He	231599	0.00
K	39	2	He	413448	0.00
Mn	55	2	He	20683	0.01
Co	59	2	He	35239	0.01
Ni	60	2	He	9250	0.03
Cu	63	2	He	23681	0.01
Zn	66	2	He	6395	0.01
Al	27	2	He	2047	0.11
B	11	1	No Gas	36130	0.00
Al	27	1	No Gas	73688	0.00
Si	28	1	No Gas	412581	0.00
Ag	107	1	No Gas	105602	0.00
Cd	111	1	No Gas	20200	0.01
Sr	88	1	No Gas	182588	0.00
Mo	95	1	No Gas	36216	0.00
Sn	118	1	No Gas	65898	0.00
Sb	121	1	No Gas	84944	0.00
Ba	137	1	No Gas	32731	0.00
Tl	205	1	No Gas	207057	0.00
Tl	203	1	No Gas	85260	0.00
Pb	208	1	No Gas	279936	0.00
U	238	1	No Gas	272592	0.00
Ca	43	2	He	927	0.78
Sb	121	2	He	28127	0.00
Cu	63	1	No Gas	65916	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	511717	0.48	522841	97.87	70	120	
Ge	72	2	He	541636	0.05	540641	100.18	70	120	
Ge	72	1	No Gas	2333847	0.12	2314031	100.86	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3099413	0.97	3008975	103.01	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\051524B.b
Acq Date Time	2024-05-15T11:28:17-05:00
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	22493	0.01
V	51	2	He	40413	0.01
Cr	52	2	He	52364	0.01
Fe	56	2	He	4364202	0.00
Se	78	2	He	971	0.38
As	75	2	He	8221	0.03
Ca	44	2	He	31209	0.01
Na	23	2	He	731445	0.00
Mg	24	2	He	438454	0.00
K	39	2	He	708916	0.00
Mn	55	2	He	39293	0.00
Co	59	2	He	67336	0.00
Ni	60	2	He	16907	0.01
Cu	63	2	He	44844	0.00
Zn	66	2	He	10751	0.04
Al	27	2	He	3577	0.20
B	11	1	No Gas	65294	0.00
Al	27	1	No Gas	126636	0.00
Si	28	1	No Gas	557320	0.00
Ag	107	1	No Gas	207660	0.00
Cd	111	1	No Gas	39561	0.00
Sr	88	1	No Gas	355925	0.00
Mo	95	1	No Gas	70791	0.00
Sn	118	1	No Gas	129093	0.00
Sb	121	1	No Gas	164927	0.00
Ba	137	1	No Gas	63941	0.00
Tl	205	1	No Gas	404677	0.00
Tl	203	1	No Gas	167773	0.00
Pb	208	1	No Gas	549994	0.00
U	238	1	No Gas	537780	0.00
Ca	43	2	He	1747	0.49
Sb	121	2	He	52428	0.01
Cu	63	1	No Gas	125774	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	507536	0.26	522841	97.07	70	120	
Ge	72	2	He	537587	0.44	540641	99.44	70	120	
Ge	72	1	No Gas	2338288	0.92	2314031	101.05	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3068153	1.14	3008975	101.97	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\051524B.b
Acq Date Time	2024-05-15T11:30:12-05:00
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	219218	0.00
V	51	2	He	389438	0.00
Cr	52	2	He	456954	0.00
Fe	56	2	He	42710746	0.00
Se	78	2	He	8570	0.01
As	75	2	He	80773	0.00
Ca	44	2	He	304648	0.00
Na	23	2	He	6810659	0.00
Mg	24	2	He	4141559	0.00
K	39	2	He	6102140	0.00
Mn	55	2	He	379467	0.00
Co	59	2	He	662394	0.00
Ni	60	2	He	168393	0.00
Cu	63	2	He	433848	0.00
Zn	66	2	He	96511	0.00
Al	27	2	He	29555	0.01
B	11	1	No Gas	593572	0.00
Al	27	1	No Gas	1062035	0.00
Si	28	1	No Gas	3106180	0.00
Ag	107	1	No Gas	1973101	0.00
Cd	111	1	No Gas	383867	0.00
Sr	88	1	No Gas	3428796	0.00
Mo	95	1	No Gas	691102	0.00
Sn	118	1	No Gas	1241286	0.00
Sb	121	1	No Gas	1627869	0.00
Ba	137	1	No Gas	617730	0.00
Tl	205	1	No Gas	4017305	0.00
Tl	203	1	No Gas	1640439	0.00
Pb	208	1	No Gas	5393373	0.00
U	238	1	No Gas	5337463	0.00
Ca	43	2	He	17234	0.01
Sb	121	2	He	532171	0.00
Cu	63	1	No Gas	1186252	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	491449	0.90	522841	94.00	70	120	
Ge	72	2	He	547139	0.25	540641	101.20	70	120	
Ge	72	1	No Gas	2298351	0.71	2314031	99.32	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3070021	0.55	3008975	102.03	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\051524B.b
Acq Date Time	2024-05-15T11:32:01-05:00
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	419077	0.00
V	51	2	He	734034	0.00
Cr	52	2	He	852606	0.00
Fe	56	2	He	79932167	0.00
Se	78	2	He	15776	0.01
As	75	2	He	151182	0.00
Ca	44	2	He	573810	0.00
Na	23	2	He	12776303	0.00
Mg	24	2	He	7726528	0.00
K	39	2	He	11329742	0.00
Mn	55	2	He	708874	0.00
Co	59	2	He	1228531	0.00
Ni	60	2	He	311269	0.00
Cu	63	2	He	803588	0.00
Zn	66	2	He	177922	0.00
Al	27	2	He	54905	0.00
B	11	1	No Gas	1111646	0.00
Al	27	1	No Gas	1955192	0.00
Si	28	1	No Gas	5578332	0.00
Ag	107	1	No Gas	3653484	0.00
Cd	111	1	No Gas	721634	0.00
Sr	88	1	No Gas	6520503	0.00
Mo	95	1	No Gas	1331942	0.00
Sn	118	1	No Gas	2359208	0.00
Sb	121	1	No Gas	3130069	0.00
Ba	137	1	No Gas	1192783	0.00
Tl	205	1	No Gas	7309862	0.00
Tl	203	1	No Gas	3077682	0.00
Pb	208	1	No Gas	10163067	0.00
U	238	1	No Gas	10136518	0.00
Ca	43	2	He	34133	0.00
Sb	121	2	He	1004747	0.00
Cu	63	1	No Gas	2244755	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	474988	0.77	522841	90.85	70	120	
Ge	72	2	He	536608	1.16	540641	99.25	70	120	
Ge	72	1	No Gas	2307241	0.87	2314031	99.71	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3009931	2.04	3008975	100.03	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:41:43-05:00
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	219465	0.00
V	51	2	He	387123	0.00
Cr	52	2	He	451661	0.00
Fe	56	2	He	42357894	0.00
Se	78	2	He	8511	0.03
As	75	2	He	80073	0.00
Ca	44	2	He	304210	0.00
Na	23	2	He	6800089	0.00
Mg	24	2	He	4144112	0.00
K	39	2	He	6161779	0.00
Mn	55	2	He	376769	0.00
Co	59	2	He	658653	0.00
Ni	60	2	He	164658	0.00
Cu	63	2	He	427584	0.00
Zn	66	2	He	95411	0.00
Al	27	2	He	30193	0.01
B	11	1	No Gas	590729	0.00
Al	27	1	No Gas	1053769	0.00
Si	28	1	No Gas	3093967	0.00
Ag	107	1	No Gas	1928159	0.00
Cd	111	1	No Gas	374553	0.00
Sr	88	1	No Gas	3411184	0.00
Mo	95	1	No Gas	681772	0.00
Sn	118	1	No Gas	1211565	0.00
Sb	121	1	No Gas	1637834	0.00
Ba	137	1	No Gas	612409	0.00
Tl	205	1	No Gas	3913120	0.00
Tl	203	1	No Gas	1639570	0.00
Pb	208	1	No Gas	5277011	0.00
U	238	1	No Gas	5288676	0.00
Ca	43	2	He	18376	0.02
Sb	121	2	He	520838	0.00
Cu	63	1	No Gas	1174255	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	502067	1.05	522841	96.03	70	120	
Ge	72	2	He	549409	0.28	540641	101.62	70	120	
Ge	72	1	No Gas	2331673	0.46	2314031	100.76	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3101281	0.74	3008975	103.07	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	021LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:48:37-05:00
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	4.930	4.930	3.95	71247	0.01	5	
Be	9	1	No Gas	5.094	5.094	2.21	11817	0.04	5	
V	51	2	He	5.282	5.282	5.52	21478	0.02	5	
Cr	52	2	He	5.256	5.256	3.52	29866	0.02	5	
Fe	56	2	He	558.344	558.344	1.86	2341596	0.02	500	
Se	78	2	He	5.041	5.041	12.39	564	0.89	5	
As	75	2	He	5.308	5.308	4.28	4366	0.12	5	
Ca	44	2	He	525.824	525.824	2.24	16226	3.24	500	
Na	23	2	He	568.568	568.568	0.90	397537	0.14	500	
Mg	24	2	He	569.713	569.713	2.02	230630	0.25	500	
K	39	2	He	561.038	561.038	1.45	409348	0.14	500	
Mn	55	2	He	5.379	5.379	3.72	20148	0.03	5	
Co	59	2	He	5.471	5.471	1.69	35179	0.02	5	
Ni	60	2	He	5.452	5.452	3.24	8950	0.06	5	
Cu	63	2	He	5.478	5.478	2.97	23517	0.02	5	
Zn	66	2	He	5.147	5.147	4.26	6085	0.08	5	
Al	27	2	He	5.591	5.591	11.01	2140	0.26	5	
B	11	1	No Gas	25.909	25.909	4.26	37704	0.07	25	
Al	27	1	No Gas	5.737	5.737	4.54	75678	0.01	5	
Si	28	1	No Gas	27.019	27.019	7.60	409106	0.01	25	
Ag	107	1	No Gas	5.624	5.624	3.40	105697	0.01	5	
Cd	111	1	No Gas	5.349	5.349	5.15	20207	0.03	5	
Sr	88	1	No Gas	5.495	5.495	3.40	183452	0.00	5	
Mo	95	1	No Gas	5.404	5.404	5.30	36791	0.01	5	
Sn	118	1	No Gas	5.471	5.471	2.31	67872	0.01	5	
Sb	121	1	No Gas	5.583	5.583	3.19	89695	0.01	5	
Ba	137	1	No Gas	5.314	5.314	1.80	33283	0.02	5	
Tl	205	1	No Gas	5.260	5.260	3.06	206821	0.00	5	
Tl	203	1	No Gas	5.411	5.411	2.39	86780	0.01	5	
Pb	208	1	No Gas	5.352	5.352	2.64	282272	0.00	5	
U	238	1	No Gas	5.234	5.234	1.70	274800	0.00	5	
Ca	43	2	He	543.127	543.127	4.36	977	55.61	500	
Sb	121	2	He	5.471	5.471	2.08	28768	0.02	5	
Ti	47	2	He	5.263	5.263	3.66	850	0.62	5	
Cu	63	1	No Gas	5.551	5.551	2.64	65025	0.01	5	
Se	82	1	No Gas	5.245	5.245	9.60	1623	0.32	5	
Zr	90	2	He	4.279	4.279	2.31	29640	0.01	5	
Zr	90	1	No Gas	4.544	4.544	3.59	98366	0.00	5	
Cd	111	2	He	5.242	5.242	1.29	8777	0.06	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Sample Report

Li	6	1	No Gas	525184	0.66	522841	100.45	70	120	
Ge	72	2	He	555808	0.55	540641	102.81	70	120	
Ge	72	1	No Gas	2336279	2.09	2314031	100.96	70	120	
Bi	209	1	No Gas	3104258	1.03	3008975	103.17	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	022LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:50:32-05:00
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	1.834	1.834	4.11	48016	0.00	2	
Be	9	1	No Gas	1.963	1.963	2.07	4604	0.04	2	
V	51	2	He	1.978	1.978	6.48	8852	0.02	2	
Cr	52	2	He	1.875	1.875	4.40	14938	0.01	2	
Fe	56	2	He	215.804	215.804	1.74	911723	0.02	200	
Se	78	2	He	1.930	1.930	11.48	309	0.62	2	
As	75	2	He	2.045	2.045	10.11	1793	0.11	2	
Ca	44	2	He	198.497	198.497	2.02	6425	3.09	200	
Na	23	2	He	214.679	214.679	1.15	161533	0.13	200	
Mg	24	2	He	220.291	220.291	2.23	89258	0.25	200	
K	39	2	He	207.098	207.098	2.67	200297	0.10	200	
Mn	55	2	He	2.064	2.064	5.44	7869	0.03	2	
Co	59	2	He	2.110	2.110	2.63	13560	0.02	2	
Ni	60	2	He	2.139	2.139	5.84	3567	0.06	2	
Cu	63	2	He	2.078	2.078	2.36	9243	0.02	2	
Zn	66	2	He	1.682	1.682	12.77	2884	0.06	2	
Al	27	2	He	2.208	2.208	13.15	1173	0.19	2	
B	11	1	No Gas	9.531	9.531	4.37	17781	0.05	10	
Al	27	1	No Gas	2.321	2.321	2.02	42224	0.01	2	
Si	28	1	No Gas	7.803	7.803	2.82	307520	0.00	10	
Ag	107	1	No Gas	2.112	2.112	2.36	40579	0.01	2	
Cd	111	1	No Gas	2.023	2.023	5.52	7690	0.03	2	
Sr	88	1	No Gas	2.093	2.093	2.16	71082	0.00	2	
Mo	95	1	No Gas	2.113	2.113	3.28	14708	0.01	2	
Sn	118	1	No Gas	2.065	2.065	0.54	27386	0.01	2	
Sb	121	1	No Gas	2.267	2.267	4.78	37170	0.01	2	
Ba	137	1	No Gas	1.967	1.967	2.40	12516	0.02	2	
Tl	205	1	No Gas	1.895	1.895	2.47	74076	0.00	2	
Tl	203	1	No Gas	1.986	1.986	2.87	31627	0.01	2	
Pb	208	1	No Gas	2.090	2.090	1.90	109627	0.00	2	
U	238	1	No Gas	2.067	2.067	1.66	107435	0.00	2	
Ca	43	2	He	203.597	203.597	30.23	370	55.02	200	
Sb	121	2	He	2.182	2.182	4.52	11592	0.02	2	
Ti	47	2	He	1.359	1.359	7.43	227	0.60	200	NewName Main CR1 Failed
Cu	63	1	No Gas	2.152	2.152	1.62	26413	0.01	2	
Se	82	1	No Gas	1.703	1.703	33.44	847	0.20	2	
Zr	90	2	He	1.725	1.725	2.05	12463	0.01	2	
Zr	90	1	No Gas	1.803	1.803	2.10	40318	0.00	2	
Cd	111	2	He	2.092	2.092	5.01	3429	0.06	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	528547	0.87	522841	101.09	70	120	
Ge	72	2	He	554806	0.60	540641	102.62	70	120	
Ge	72	1	No Gas	2358620	0.52	2314031	101.93	70	120	
Bi	209	1	No Gas	3066440	2.02	3008975	101.91	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	023_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:52:28-05:00
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	-0.222	-11.9	32217	0.7	2.5	
Be	9	1	No Gas	0.011	40.7	60	16.7	2.5	
V	51	2	He	-0.004	-1243.1	1286	13.7	2.5	
Cr	52	2	He	-0.167	-56.8	5891	6.3	2.5	
Fe	56	2	He	1.932	7.2	21417	3.6	250	
Se	78	2	He	-0.210	-202.7	133	25.8	2.5	
As	75	2	He	-0.029	-164.4	161	24.0	2.5	
Ca	44	2	He	6.965	40.8	700	12.2	250	
Na	23	2	He	4.756	11.9	21731	1.9	250	
Mg	24	2	He	1.556	9.7	1013	5.4	250	
K	39	2	He	-3.083	-20.3	75794	0.5	250	
Mn	55	2	He	0.083	25.9	550	14.5	2.5	
Co	59	2	He	0.005	132.4	60	72.6	2.5	
Ni	60	2	He	0.068	22.9	210	12.6	2.5	
Cu	63	2	He	0.072	19.7	840	6.2	2.5	
Zn	66	2	He	0.060	332.8	1373	12.3	2.5	
Al	27	2	He	2.703	18.5	1300	10.4	2.5	ICB Main CR1 Failed
B	11	1	No Gas	0.017	654.5	6056	2.2	10	
Al	27	1	No Gas	2.748	3.6	46354	1.4	2.5	ICB Main CR1 Failed
Si	28	1	No Gas	0.019	1683.0	263894	1.8	10	
Ag	107	1	No Gas	-0.016	-8.3	477	6.4	2.5	
Cd	111	1	No Gas	0.006	127.9	16	189.4	2.5	
Sr	88	1	No Gas	0.067	7.6	3070	6.7	2.5	
Mo	95	1	No Gas	0.023	21.4	443	7.3	2.5	
Sn	118	1	No Gas	0.185	11.0	4644	5.1	2.5	
Sb	121	1	No Gas	0.080	9.5	1924	6.2	2.5	
Ba	137	1	No Gas	0.145	4.5	1073	3.3	2.5	
Tl	205	1	No Gas	0.022	49.4	1570	25.9	2.5	
Tl	203	1	No Gas	0.027	34.3	690	19.5	2.5	
Pb	208	1	No Gas	0.016	12.9	2027	3.2	2.5	
U	238	1	No Gas	0.009	32.8	880	17.6	2.5	
Ca	43	2	He	35.949	42.8	70	37.8	250	
Sb	121	2	He	0.080	20.4	637	13.4	2.5	
Ti	47	2	He	0.042	175.9	17	69.3	2.5	
Se	82	1	No Gas	-0.720	-14.3	303	8.3	2.5	
Zr	90	2	He	0.098	7.2	1543	3.0	2.5	
Zr	90	1	No Gas	0.126	11.3	4174	6.3	2.5	
Cd	111	2	He	0.019	117.9	41	86.6	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	527491	0.12	522841	100.89	70	120	
Ge	72	2	He	548916	0.93	540641	101.53	70	120	
Ge	72	1	No Gas	2351066	1.11	2314031	101.60	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3031378	2.09	3008975	100.74	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	024_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:54:24-05:00
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	99.663	0.592	756372	0.80	100	99.7	90	110	
Be	9	1	No Gas	102.099	1.201	225646	0.53	100	102.1	90	110	
V	51	2	He	103.932	1.728	394091	1.98	100	103.9	90	110	
Cr	52	2	He	104.736	1.863	463617	2.06	100	104.7	90	110	
Fe	56	2	He	10445.070	1.590	43125023	1.86	10000	104.5	90	110	
Se	78	2	He	105.882	0.455	8713	0.62	100	105.9	90	110	
As	75	2	He	105.525	1.773	82441	1.80	100	105.5	90	110	
Ca	44	2	He	10514.995	0.768	311792	0.88	10000	105.1	90	110	
Na	23	2	He	10638.751	1.602	7033476	1.75	10000	106.4	90	110	
Mg	24	2	He	10480.721	0.974	4193092	1.12	10000	104.8	90	110	
K	39	2	He	10545.781	1.376	6232913	1.58	10000	105.5	90	110	
Mn	55	2	He	105.498	1.529	386577	1.79	100	105.5	90	110	
Co	59	2	He	105.465	1.211	670802	1.45	100	105.5	90	110	
Ni	60	2	He	104.988	0.609	168748	0.56	100	105.0	90	110	
Cu	63	2	He	105.252	0.991	437385	1.22	100	105.3	90	110	
Zn	66	2	He	104.752	0.622	96974	0.79	100	104.8	90	110	
Al	27	2	He	105.894	2.987	30457	3.13	100	105.9	90	110	
B	11	1	No Gas	513.415	1.042	605910	0.30	500	102.7	90	110	
Al	27	1	No Gas	109.370	1.231	1095120	1.16	100	109.4	90	110	
Si	28	1	No Gas	534.399	3.553	3146386	1.21	500	106.9	90	110	
Ag	107	1	No Gas	106.141	1.362	1966150	0.99	100	106.1	90	110	
Cd	111	1	No Gas	103.351	1.605	379999	1.27	100	103.4	90	110	
Sr	88	1	No Gas	103.976	3.081	3429852	0.97	100	104.0	90	110	
Mo	95	1	No Gas	103.098	2.867	691616	0.68	100	103.1	90	110	
Sn	118	1	No Gas	103.540	2.619	1231921	0.42	100	103.5	90	110	
Sb	121	1	No Gas	102.776	2.722	1627588	1.10	100	102.8	90	110	
Ba	137	1	No Gas	102.213	0.478	619784	0.63	100	102.2	90	110	
Tl	205	1	No Gas	104.209	0.736	3900525	0.61	100	104.2	90	110	
Tl	203	1	No Gas	107.912	1.150	1647878	0.51	100	107.9	90	110	
Pb	208	1	No Gas	106.253	0.104	5330249	0.56	100	106.3	90	110	
U	238	1	No Gas	105.502	1.135	5282904	1.38	100	105.5	90	110	
Ca	43	2	He	10176.351	2.300	17999	2.54	10000	101.8	90	110	
Sb	121	2	He	103.556	0.788	534982	1.03	100	103.6	90	110	
Ti	47	2	He	104.234	2.544	16473	2.41	100	104.2	90	110	
Cu	63	1	No Gas	104.819	3.913	1190648	1.76	100	104.8	90	110	
Se	82	1	No Gas	104.202	2.739	23384	0.51	100	104.2	90	110	
Zr	90	2	He	92.832	0.842	618155	1.09	100	92.8	90	110	
Zr	90	1	No Gas	95.244	1.653	2017284	0.79	100	95.2	90	110	
Cd	111	2	He	106.152	0.930	169688	1.28	100	106.2	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	501812	0.75	522841	95.98	70	120	
Ge	72	2	He	550231	0.28	540641	101.77	70	120	
Ge	72	1	No Gas	2318278	2.22	2314031	100.18	70	120	
Bi	209	1	No Gas	2964729	0.66	3008975	98.53	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:01:57-05:00
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	0.176	58.4	30942	1.7	5	
Be	9	1	No Gas	0.014	75.9	60	36.3	5	
V	51	2	He	0.304	16.7	2271	7.9	5	
Cr	52	2	He	0.783	11.1	9310	3.7	5	
Fe	56	2	He	100529.081	1.2	384326008	1.3	0	
Se	78	2	He	0.559	66.4	181	15.2	5	
As	75	2	He	0.344	3.4	419	2.0	5	
Ca	44	2	He	96907.326	0.8	2657771	0.9	0	
Na	23	2	He	101173.265	1.2	61806144	1.3	0	
Mg	24	2	He	99730.756	1.7	36953749	1.8	0	
K	39	2	He	100209.140	1.4	54245019	1.5	0	
Mn	55	2	He	1.654	4.4	5838	4.3	5	
Co	59	2	He	1.091	5.7	6452	5.7	5	
Ni	60	2	He	1.241	4.4	1940	4.2	5	
Cu	63	2	He	0.874	5.4	3864	4.6	5	
Zn	66	2	He	2.658	11.9	3474	7.7	5	
Al	27	2	He	95038.477	1.7	24869610	1.8	0	
B	11	1	No Gas	1.784	4.6	7220	1.1	20	
Al	27	1	No Gas	98088.508	5.2	898692200	2.1	0	
Si	28	1	No Gas	94.788	3.1	719269	1.6	20	ICSA Main CR1 FailedICSA Main CR2 Failed
Ag	107	1	No Gas	0.322	10.0	6272	9.7	5	
Cd	111	1	No Gas	0.377	27.4	1251	27.2	5	
Sr	88	1	No Gas	0.969	4.4	30498	1.8	5	
Mo	95	1	No Gas	1942.591	4.9	12129560	1.9	0	
Sn	118	1	No Gas	0.246	6.1	4934	3.0	5	
Sb	121	1	No Gas	0.286	4.4	4808	4.4	5	
Ba	137	1	No Gas	0.720	2.9	4107	0.9	5	
Tl	205	1	No Gas	0.001	733.8	663	18.8	5	
Tl	203	1	No Gas	0.003	144.0	283	20.7	5	
Pb	208	1	No Gas	0.848	3.4	39445	2.0	5	
U	238	1	No Gas	0.012	19.3	940	10.1	5	
Ca	43	2	He	98155.863	2.7	160743	2.8	0	
Sb	121	2	He	0.279	7.6	1547	6.5	5	
Ti	47	2	He	2093.282	1.4	306254	1.5	0	
Cu	63	1	No Gas	1.865	4.0	21133	1.9	5	
Se	82	1	No Gas	0.814	26.6	593	8.3	5	
Zr	90	2	He	34.861	2.9	215530	3.0	5	ICSA Main CR1 Failed
Zr	90	1	No Gas	36.495	5.1	720436	2.4	5	ICSA Main CR1 Failed
Cd	111	2	He	2.486	4.8	3604	4.8	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	462935	0.49	522841	88.54	70	120	
Ge	72	2	He	509643	0.10	540641	94.27	70	120	
Ge	72	1	No Gas	2159867	3.04	2314031	93.34	70	120	
Bi	209	1	No Gas	2676252	1.42	3008975	88.94	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:03:54-05:00
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	101.905	5.625	712191	3.86	100	101.9	80	120	
Be	9	1	No Gas	98.672	2.117	201082	0.58	100	98.7	80	120	
V	51	2	He	107.170	0.667	386293	0.66	100	107.2	80	120	
Cr	52	2	He	105.448	0.473	443721	0.99	100	105.4	80	120	
Fe	56	2	He	113150.869	0.689	444009073	0.71	110000	102.9	80	120	
Se	78	2	He	111.929	0.825	8748	0.45	100	111.9	80	120	
As	75	2	He	109.646	0.857	81430	0.53	100	109.6	80	120	
Ca	44	2	He	110696.217	0.778	3116445	1.93	110000	100.6	80	120	
Na	23	2	He	117678.380	0.614	73792971	1.81	110000	107.0	80	120	
Mg	24	2	He	114927.702	0.467	43710524	0.84	110000	104.5	80	120	
K	39	2	He	115917.886	0.247	64396806	0.98	110000	105.4	80	120	
Mn	55	2	He	107.542	0.945	374643	1.30	100	107.5	80	120	
Co	59	2	He	104.736	0.303	633370	1.52	100	104.7	80	120	
Ni	60	2	He	101.980	0.284	155843	1.09	100	102.0	80	120	
Cu	63	2	He	103.215	0.426	407800	1.10	100	103.2	80	120	
Zn	66	2	He	107.792	1.386	94830	0.78	100	107.8	80	120	
Al	27	2	He	99474.542	0.302	26720159	1.52	100100	99.4	80	120	
B	11	1	No Gas	520.771	2.422	566603	0.77	500	104.2	80	120	
Al	27	1	No Gas	99282.498	2.269	939858173	1.10	100100	99.2	80	120	
Si	28	1	No Gas	671.850	1.990	3741425	0.62	500	134.4	80	120	ICSB Main CR1 Failed
Ag	107	1	No Gas	102.401	1.880	1824499	0.50	100	102.4	80	120	
Cd	111	1	No Gas	107.408	0.656	368274	0.69	100	107.4	80	120	
Sr	88	1	No Gas	109.727	2.598	3482007	1.21	100	109.7	80	120	
Mo	95	1	No Gas	2096.174	1.537	13523329	0.40	2100	99.8	80	120	
Sn	118	1	No Gas	106.145	2.135	1214857	0.77	100	106.1	80	120	
Sb	121	1	No Gas	109.499	1.818	1668141	0.43	100	109.5	80	120	
Ba	137	1	No Gas	106.618	1.063	602831	0.38	100	106.6	80	120	
Tl	205	1	No Gas	84.750	1.771	2922051	0.35	100	84.8	80	120	
Tl	203	1	No Gas	87.436	1.362	1230005	0.80	100	87.4	80	120	
Pb	208	1	No Gas	108.409	2.020	5009106	0.57	100	108.4	80	120	
U	238	1	No Gas	110.981	1.662	5118990	1.34	100	111.0	80	120	
Ca	43	2	He	113527.063	1.042	190820	0.58	110000	103.2	80	120	
Sb	121	2	He	108.488	0.428	532839	1.12	100	108.5	80	120	
Ti	47	2	He	2297.962	1.497	345058	0.29	2100	109.4	80	120	
Cu	63	1	No Gas	102.175	1.341	1116825	0.26	100	102.2	80	120	
Se	82	1	No Gas	110.604	2.133	23851	1.20	100	110.6	80	120	
Zr	90	2	He	113.825	0.386	720418	1.15	100	113.8	80	120	
Zr	90	1	No Gas	118.381	2.486	2411290	1.31	100	118.4	80	120	
Cd	111	2	He	110.077	0.513	160604	0.81	100	110.1	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	462789	1.63	522841	88.51	70	120	
Ge	72	2	He	523140	1.22	540641	96.76	70	120	
Ge	72	1	No Gas	2229744	1.37	2314031	96.36	70	120	
Bi	209	1	No Gas	2731387	1.94	3008975	90.77	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	030_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:10:47-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	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	99.400	1.756	718022	1.12	100	99.4	90	110	
Be	9	1	No Gas	98.892	1.196	208022	0.98	100	98.9	90	110	
V	51	2	He	103.167	1.352	390537	1.05	100	103.2	90	110	
Cr	52	2	He	103.847	1.413	458977	1.55	100	103.8	90	110	
Fe	56	2	He	10347.840	1.677	42652489	1.72	10000	103.5	90	110	
Se	78	2	He	105.059	1.677	8632	1.74	100	105.1	90	110	
As	75	2	He	103.313	1.483	80585	1.63	100	103.3	90	110	
Ca	44	2	He	10309.391	1.004	305202	1.02	10000	103.1	90	110	
Na	23	2	He	10557.149	1.014	6968083	0.98	10000	105.6	90	110	
Mg	24	2	He	10474.302	1.392	4183715	1.65	10000	104.7	90	110	
K	39	2	He	10416.647	1.420	6147488	1.69	10000	104.2	90	110	
Mn	55	2	He	104.491	1.505	382259	1.72	100	104.5	90	110	
Co	59	2	He	105.165	1.004	667780	0.96	100	105.2	90	110	
Ni	60	2	He	105.751	1.541	169700	1.78	100	105.8	90	110	
Cu	63	2	He	104.738	1.629	434535	1.69	100	104.7	90	110	
Zn	66	2	He	104.475	1.012	96561	0.86	100	104.5	90	110	
Al	27	2	He	103.796	1.646	29816	2.00	100	103.8	90	110	
B	11	1	No Gas	514.569	1.845	577963	1.54	500	102.9	90	110	
Al	27	1	No Gas	107.620	2.213	1097146	1.20	100	107.6	90	110	
Si	28	1	No Gas	511.913	3.728	3079650	2.45	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	107.968	1.158	2035916	0.70	100	108.0	90	110	
Cd	111	1	No Gas	102.367	1.716	389827	0.94	100	102.4	90	110	
Sr	88	1	No Gas	103.791	1.615	3486019	0.85	100	103.8	90	110	
Mo	95	1	No Gas	104.268	1.263	712171	0.28	100	104.3	90	110	
Sn	118	1	No Gas	102.904	1.633	1246562	0.93	100	102.9	90	110	
Sb	121	1	No Gas	103.243	3.162	1664418	2.23	100	103.2	90	110	
Ba	137	1	No Gas	100.731	1.730	632597	1.00	100	100.7	90	110	
Tl	205	1	No Gas	102.104	1.052	3983755	0.53	100	102.1	90	110	
Tl	203	1	No Gas	103.604	2.265	1649144	1.80	100	103.6	90	110	
Pb	208	1	No Gas	104.138	1.554	5445294	0.57	100	104.1	90	110	
U	238	1	No Gas	104.001	0.710	5428589	1.00	100	104.0	90	110	
Ca	43	2	He	10134.530	3.242	17895	3.39	10000	101.3	90	110	
Sb	121	2	He	102.599	0.924	529174	1.23	100	102.6	90	110	
Ti	47	2	He	104.911	1.975	16554	2.02	100	104.9	90	110	
Cu	63	1	No Gas	102.351	2.038	1183898	1.08	100	102.4	90	110	
Se	82	1	No Gas	103.591	1.803	23671	1.01	100	103.6	90	110	
Zr	90	2	He	89.595	1.356	595648	1.47	100	89.6	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	91.574	0.917	1974538	0.49	100	91.6	90	110	
Cd	111	2	He	104.022	1.320	168531	1.50	100	104.0	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	477602	0.65	522841	91.35	70	120	
Ge	72	2	He	549329	0.39	540641	101.61	70	120	
Ge	72	1	No Gas	2359615	0.97	2314031	101.97	70	120	
Bi	209	1	No Gas	3090524	0.99	3008975	102.71	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	031_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:12:36-05:00
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	-0.104	-63.5	31335	1.4	2.5	
Be	9	1	No Gas	0.127	33.2	312	28.7	2.5	
V	51	2	He	-0.073	-162.7	1046	43.6	2.5	
Cr	52	2	He	-0.545	-10.6	4334	5.8	2.5	
Fe	56	2	He	10.154	10.3	56377	7.5	250	
Se	78	2	He	0.122	192.1	163	11.8	5	
As	75	2	He	0.025	76.4	208	7.2	2.5	
Ca	44	2	He	10.269	43.3	813	16.2	250	
Na	23	2	He	20.229	8.5	32552	3.3	250	
Mg	24	2	He	10.022	8.0	4481	7.2	250	
K	39	2	He	10.302	16.7	85279	1.2	250	
Mn	55	2	He	0.123	16.1	710	10.2	2.5	
Co	59	2	He	0.081	26.1	550	24.6	2.5	
Ni	60	2	He	0.104	26.2	273	16.5	2.5	
Cu	63	2	He	0.032	65.9	690	13.0	5	
Zn	66	2	He	-0.437	-5.9	940	2.8	2.5	
Al	27	2	He	1.834	15.6	1077	7.5	2.5	
B	11	1	No Gas	0.372	42.4	6141	1.7	10	
Al	27	1	No Gas	2.620	9.0	46177	3.8	2.5	CCB Main CR1 Failed
Si	28	1	No Gas	-1.879	-25.0	259766	0.6	10	
Ag	107	1	No Gas	0.122	30.0	3147	21.0	2.5	
Cd	111	1	No Gas	0.131	31.5	505	31.3	2.5	
Sr	88	1	No Gas	0.192	23.6	7409	19.6	2.5	
Mo	95	1	No Gas	0.406	19.7	3124	16.3	2.5	
Sn	118	1	No Gas	0.316	53.5	6359	31.3	2.5	
Sb	121	1	No Gas	0.805	20.6	13888	18.1	2.5	
Ba	137	1	No Gas	0.252	23.5	1803	20.5	2.5	
Tl	205	1	No Gas	0.241	21.7	10301	20.5	2.5	
Tl	203	1	No Gas	0.250	22.2	4314	21.2	2.5	
Pb	208	1	No Gas	0.162	22.3	9868	19.8	2.5	
U	238	1	No Gas	0.144	25.1	8046	24.2	2.5	
Ca	43	2	He	33.216	53.8	67	48.2	250	
Sb	121	2	He	0.589	15.4	3327	14.1	2.5	
Ti	47	2	He	0.226	69.3	47	53.9	2.5	
Cu	63	1	No Gas	0.132	29.1	3144	12.9	2.5	
Se	82	1	No Gas	-0.445	-75.3	373	19.7	5	
Zr	90	2	He	0.393	7.4	3571	5.3	5	
Zr	90	1	No Gas	0.654	23.5	15877	19.8	5	
Cd	111	2	He	0.079	42.0	145	40.3	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	499094	1.30	522841	95.46	70	120	
Ge	72	2	He	560013	0.27	540641	103.58	70	120	

Continuing Calibration Blank (CCB) Report

Ge	72	1	No Gas	2409631	1.42	2314031	104.13	70	120	
Bi	209	1	No Gas	3134221	0.66	3008975	104.16	70	120	

Sample Report

Sample Table

Sample Name	MBLK-211834
Data File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:14:33-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	-0.268	-0.268	-13.87	30249	0.00	2000	
Be	9	1	No Gas	0.016	0.016	51.69	68	0.02	2000	
V	51	2	He	-0.174	-0.174	-28.62	660	-0.03	2000	
Cr	52	2	He	-0.549	-0.549	-7.62	4314	-0.01	2000	
Fe	56	2	He	4.130	4.130	9.41	31077	0.01	200000	
Se	78	2	He	-0.242	-0.242	-120.72	133	-0.18	2000	
As	75	2	He	-0.057	-0.057	-42.83	142	-0.04	2000	
Ca	44	2	He	23.108	23.108	7.39	1200	1.93	200000	
Na	23	2	He	13.753	13.753	3.42	28199	0.05	200000	
Mg	24	2	He	3.856	3.856	7.49	1970	0.20	200000	
K	39	2	He	6.930	6.930	24.80	83254	0.01	200000	
Mn	55	2	He	0.816	0.816	12.65	3294	0.02	2000	
Co	59	2	He	0.016	0.016	53.32	133	0.01	2000	
Ni	60	2	He	0.326	0.326	19.15	637	0.05	2000	
Cu	63	2	He	0.128	0.128	0.16	1093	0.01	2000	
Zn	66	2	He	1.206	1.206	18.20	2467	0.05	2000	
Al	27	2	He	1.627	1.627	33.42	1017	0.16	2000	
B	11	1	No Gas	-1.107	-1.107	-6.38	4437	-0.02	2000	
Al	27	1	No Gas	1.927	1.927	7.71	39202	0.00	2000	
Si	28	1	No Gas	-2.519	-2.519	-20.19	256890	0.00	2000	
Ag	107	1	No Gas	-0.005	-0.005	-164.53	713	0.00	2000	
Cd	111	1	No Gas	0.021	0.021	61.58	75	0.03	2000	
Sr	88	1	No Gas	0.039	0.039	23.14	2170	0.00	2000	
Mo	95	1	No Gas	0.117	0.117	10.50	1113	0.01	2000	
Sn	118	1	No Gas	0.252	0.252	2.77	5595	0.00	2000	
Sb	121	1	No Gas	0.184	0.184	11.37	3687	0.00	2000	
Ba	137	1	No Gas	0.075	0.075	3.37	657	0.01	2000	
Tl	205	1	No Gas	0.029	0.029	38.56	1904	0.00	2000	
Tl	203	1	No Gas	0.034	0.034	28.38	827	0.00	2000	
Pb	208	1	No Gas	0.026	0.026	18.55	2650	0.00	2000	
U	238	1	No Gas	0.016	0.016	34.58	1310	0.00	2000	
Ca	43	2	He	33.314	33.314	75.60	67	49.97	200000	
Sb	121	2	He	0.167	0.167	8.18	1107	0.02	2000	
Ti	47	2	He	-0.043	-0.043	-82.09	3	-1.30	2000	
Cu	63	1	No Gas	0.107	0.107	15.74	2864	0.00	2000	
Zn	66	1	No Gas	1.015	1.015	4.05	8519	0.01	2000	
Se	82	1	No Gas	-0.871	-0.871	-29.43	277	-0.31	2000	
Cd	111	2	He	0.012	0.012	104.00	30	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	500769	1.21	522841	95.78	70	120	

Sample Report

Ge	72	2	He	559849	0.57	540641	103.55	70	120	
Ge	72	1	No Gas	2416190	1.31	2314031	104.41	70	120	
Bi	209	1	No Gas	3141308	1.74	3008975	104.40	70	120	

Sample Report

Sample Table

Sample Name	LCS-211834
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:16:29-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	-0.177	-0.177	-25.73	30505	0.00	2000	
Be	9	1	No Gas	44.730	44.730	2.88	97354	0.05	2000	
V	51	2	He	45.634	45.634	3.53	175376	0.03	2000	
Cr	52	2	He	47.246	47.246	3.26	214750	0.02	2000	
Fe	56	2	He	4709.066	4709.066	2.97	19629996	0.02	200000	
Se	78	2	He	45.094	45.094	4.93	3833	1.18	2000	
As	75	2	He	45.355	45.355	3.58	35869	0.13	2000	
Ca	44	2	He	4575.094	4575.094	3.51	137205	3.33	200000	
Na	23	2	He	4675.552	4675.552	2.23	3130258	0.15	200000	
Mg	24	2	He	4777.657	4777.657	3.92	1929423	0.25	200000	
K	39	2	He	4608.176	4608.176	1.33	2792967	0.16	200000	
Mn	55	2	He	47.477	47.477	3.12	175722	0.03	2000	
Co	59	2	He	47.068	47.068	2.63	302163	0.02	2000	
Ni	60	2	He	48.293	48.293	1.83	78395	0.06	2000	
Cu	63	2	He	47.041	47.041	2.21	197600	0.02	2000	
Zn	66	2	He	50.072	50.072	0.53	47480	0.11	2000	
Al	27	2	He	59.946	59.946	5.50	17638	0.34	2000	
B	11	1	No Gas	-0.442	-0.442	-33.45	5144	-0.01	2000	
Al	27	1	No Gas	63.634	63.634	3.43	661335	0.01	2000	
Si	28	1	No Gas	15.479	15.479	8.23	352419	0.00	2000	
Ag	107	1	No Gas	49.586	49.586	2.81	942281	0.01	2000	
Cd	111	1	No Gas	47.484	47.484	1.75	185664	0.03	2000	
Sr	88	1	No Gas	0.263	0.263	0.64	9710	0.00	2000	
Mo	95	1	No Gas	48.214	48.214	2.19	331888	0.01	2000	
Sn	118	1	No Gas	0.455	0.455	6.26	7986	0.01	2000	
Sb	121	1	No Gas	50.947	50.947	2.38	827787	0.01	2000	
Ba	137	1	No Gas	46.603	46.603	2.11	300597	0.02	2000	
Tl	205	1	No Gas	36.932	36.932	1.40	1468341	0.00	2000	
Tl	203	1	No Gas	36.761	36.761	0.91	596298	0.01	2000	
Pb	208	1	No Gas	47.725	47.725	2.98	2542701	0.00	2000	
U	238	1	No Gas	0.008	0.008	25.46	860	0.00	2000	
Ca	43	2	He	4381.677	4381.677	6.55	7826	55.99	200000	
Sb	121	2	He	48.087	48.087	2.47	250843	0.02	2000	
Ti	47	2	He	44.925	44.925	2.93	7172	0.63	2000	
Cu	63	1	No Gas	48.605	48.605	3.09	567176	0.01	2000	
Zn	66	1	No Gas	52.966	52.966	4.06	177458	0.03	2000	
Se	82	1	No Gas	48.754	48.754	4.50	11472	0.42	2000	
Cd	111	2	He	45.495	45.495	2.80	75125	0.06	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	494108	0.51	522841	94.50	70	120	
Ge	72	2	He	555317	0.26	540641	102.71	70	120	
Ge	72	1	No Gas	2377091	1.09	2314031	102.73	70	120	

Sample Report

Bi	209	1	No Gas	3148132	0.55	3008975	104.62	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01
Data File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:18:23-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	40.612	40.612	3.26	309655	0.01	2000	
Be	9	1	No Gas	0.147	0.147	37.52	338	0.04	2000	
V	51	2	He	0.404	0.404	42.49	2834	0.01	2000	
Cr	52	2	He	2.225	2.225	5.82	16363	0.01	2000	
Fe	56	2	He	206.337	206.337	2.95	866324	0.02	200000	
Se	78	2	He	0.492	0.492	32.29	191	0.26	2000	
As	75	2	He	0.487	0.487	9.31	564	0.09	2000	
Ca	44	2	He	54962.786	54962.786	2.33	1629948	3.37	200000	
Na	23	2	He	235391.628	235391.628	2.50	155444191	0.15	200000	>LDR
Mg	24	2	He	41675.271	41675.271	2.48	16695440	0.25	200000	
K	39	2	He	787.728	787.728	2.51	538292	0.15	200000	
Mn	55	2	He	325.931	325.931	2.06	1195453	0.03	2000	
Co	59	2	He	2.703	2.703	4.87	17241	0.02	2000	
Ni	60	2	He	10.030	10.030	1.91	16237	0.06	2000	
Cu	63	2	He	5.274	5.274	5.02	22462	0.02	2000	
Zn	66	2	He	12.206	12.206	6.71	12486	0.10	2000	
Al	27	2	He	45.610	45.610	3.97	13444	0.34	2000	
B	11	1	No Gas	31.502	31.502	4.17	40266	0.08	2000	
Al	27	1	No Gas	47.746	47.746	1.42	482115	0.01	2000	
Si	28	1	No Gas	19481.984	19481.984	2.71	104116285	0.02	2000	>LDR
Ag	107	1	No Gas	0.122	0.122	25.36	2997	0.00	2000	
Cd	111	1	No Gas	0.204	0.204	12.23	739	0.03	2000	
Sr	88	1	No Gas	1139.041	1139.041	1.49	37077635	0.00	2000	
Mo	95	1	No Gas	0.545	0.545	7.51	3887	0.01	2000	
Sn	118	1	No Gas	0.162	0.162	6.73	4251	0.00	2000	
Sb	121	1	No Gas	0.655	0.655	5.13	10865	0.01	2000	
Ba	137	1	No Gas	246.678	246.678	3.55	1490317	0.02	2000	
Tl	205	1	No Gas	0.941	0.941	28.97	34417	0.00	2000	
Tl	203	1	No Gas	0.954	0.954	29.38	14202	0.01	2000	
Pb	208	1	No Gas	0.152	0.152	9.60	8455	0.00	2000	
U	238	1	No Gas	2.244	2.244	3.67	108236	0.00	2000	
Ca	43	2	He	55993.163	55993.163	2.08	99138	56.48	200000	
Sb	121	2	He	0.563	0.563	9.22	3137	0.02	2000	
Ti	47	2	He	1.916	1.916	19.06	313	0.61	2000	
Cu	63	1	No Gas	7.579	7.579	2.42	86390	0.01	2000	
Zn	66	1	No Gas	13.194	13.194	2.64	46209	0.03	2000	
Se	82	1	No Gas	1.390	1.390	22.25	753	0.18	2000	
Cd	111	2	He	0.146	0.146	2.11	239	0.06	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	474855	1.59	522841	90.82	70	120	
Ge	72	2	He	551013	0.25	540641	101.92	70	120	
Ge	72	1	No Gas	2287241	0.41	2314031	98.84	70	120	
Bi	209	1	No Gas	2846558	1.21	3008975	94.60	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01SD
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:20:20-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	7.975	7.975	3.43	92293	0.01	2000	
Be	9	1	No Gas	0.018	0.018	65.06	75	0.02	2000	
V	51	2	He	-0.142	-0.142	-84.90	792	-0.02	2000	
Cr	52	2	He	-0.057	-0.057	-67.19	6565	0.00	2000	
Fe	56	2	He	40.482	40.482	2.82	185625	0.02	200000	
Se	78	2	He	-0.108	-0.108	-237.48	146	-0.07	2000	
As	75	2	He	0.151	0.151	25.68	310	0.05	2000	
Ca	44	2	He	10842.668	10842.668	2.79	330503	3.28	200000	
Na	23	2	He	44762.083	44762.083	1.86	30358646	0.15	200000	
Mg	24	2	He	8136.779	8136.779	4.13	3346762	0.24	200000	
K	39	2	He	151.201	151.201	3.04	170671	0.09	200000	
Mn	55	2	He	64.529	64.529	2.64	243172	0.03	2000	
Co	59	2	He	0.549	0.549	6.03	3617	0.02	2000	
Ni	60	2	He	2.141	2.141	5.06	3641	0.06	2000	
Cu	63	2	He	1.051	1.051	9.55	5041	0.02	2000	
Zn	66	2	He	2.162	2.162	13.11	3390	0.06	2000	
Al	27	2	He	10.497	10.497	4.33	3604	0.29	2000	
B	11	1	No Gas	4.438	4.438	10.18	11181	0.04	2000	
Al	27	1	No Gas	12.797	12.797	32.49	150538	0.01	2000	
Si	28	1	No Gas	3840.798	3840.798	4.26	21881225	0.02	2000	>LDR
Ag	107	1	No Gas	-0.009	-0.009	-50.60	623	0.00	2000	
Cd	111	1	No Gas	0.037	0.037	21.52	132	0.03	2000	
Sr	88	1	No Gas	223.567	223.567	3.74	7682035	0.00	2000	
Mo	95	1	No Gas	0.123	0.123	9.94	1157	0.01	2000	
Sn	118	1	No Gas	0.053	0.053	21.83	3130	0.00	2000	
Sb	121	1	No Gas	0.136	0.136	8.80	2907	0.00	2000	
Ba	137	1	No Gas	47.989	47.989	3.46	300802	0.02	2000	
Tl	205	1	No Gas	0.099	0.099	15.54	4501	0.00	2000	
Tl	203	1	No Gas	0.097	0.097	18.30	1780	0.01	2000	
Pb	208	1	No Gas	0.019	0.019	12.60	2193	0.00	2000	
U	238	1	No Gas	0.427	0.427	5.44	22227	0.00	2000	
Ca	43	2	He	11089.138	11089.138	2.53	20162	55.00	200000	
Sb	121	2	He	0.128	0.128	13.23	913	0.01	2000	
Ti	47	2	He	0.636	0.636	60.07	113	0.56	2000	
Cu	63	1	No Gas	1.498	1.498	4.48	19301	0.01	2000	
Zn	66	1	No Gas	2.361	2.361	5.69	12963	0.02	2000	
Se	82	1	No Gas	-0.016	-0.016	-2368.10	473	0.00	2000	
Cd	111	2	He	0.029	0.029	22.66	58	0.05	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	513443	0.63	522841	98.20	70	120	
Ge	72	2	He	565621	0.71	540641	104.62	70	120	
Ge	72	1	No Gas	2414458	0.93	2314031	104.34	70	120	

Sample Report

Bi	209	1	No Gas	3026786	0.89	3008975	100.59	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01MS
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:22:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	38.796	38.796	4.28	306732	0.01	2000	
Be	9	1	No Gas	47.537	47.537	3.91	102606	0.05	2000	
V	51	2	He	47.958	47.958	2.96	180465	0.03	2000	
Cr	52	2	He	49.087	49.087	2.28	218281	0.02	2000	
Fe	56	2	He	4936.926	4936.926	1.46	20156733	0.02	200000	
Se	78	2	He	48.349	48.349	1.51	4014	1.20	2000	
As	75	2	He	48.353	48.353	2.77	37444	0.13	2000	
Ca	44	2	He	57909.477	57909.477	1.78	1695276	3.42	200000	
Na	23	2	He	229151.941	229151.941	1.59	149382284	0.15	200000	>LDR
Mg	24	2	He	44239.034	44239.034	2.10	17495667	0.25	200000	
K	39	2	He	5439.753	5439.753	1.38	3215436	0.17	200000	
Mn	55	2	He	367.651	367.651	0.66	1331099	0.03	2000	
Co	59	2	He	49.242	49.242	1.88	309633	0.02	2000	
Ni	60	2	He	55.242	55.242	2.04	87826	0.06	2000	
Cu	63	2	He	51.363	51.363	2.22	211281	0.02	2000	
Zn	66	2	He	61.401	61.401	2.47	56735	0.11	2000	
Al	27	2	He	99.413	99.413	2.06	28296	0.35	2000	
B	11	1	No Gas	29.560	29.560	5.27	39347	0.08	2000	
Al	27	1	No Gas	105.597	105.597	5.90	1069277	0.01	2000	
Si	28	1	No Gas	18558.404	18558.404	2.63	101620175	0.02	2000	>LDR
Ag	107	1	No Gas	46.661	46.661	3.01	874110	0.01	2000	
Cd	111	1	No Gas	48.712	48.712	1.35	179590	0.03	2000	
Sr	88	1	No Gas	1079.881	1079.881	3.67	36006492	0.00	2000	
Mo	95	1	No Gas	49.031	49.031	2.87	332679	0.01	2000	
Sn	118	1	No Gas	0.088	0.088	15.83	3467	0.00	2000	
Sb	121	1	No Gas	49.762	49.762	1.97	797102	0.01	2000	
Ba	137	1	No Gas	284.488	284.488	2.41	1729327	0.02	2000	
Tl	205	1	No Gas	37.129	37.129	1.07	1343310	0.00	2000	
Tl	203	1	No Gas	36.887	36.887	0.57	544484	0.01	2000	
Pb	208	1	No Gas	48.909	48.909	2.22	2371206	0.00	2000	
U	238	1	No Gas	2.132	2.132	2.07	103548	0.00	2000	
Ca	43	2	He	57993.285	57993.285	2.89	101365	57.21	200000	
Sb	121	2	He	48.104	48.104	2.58	245788	0.02	2000	
Ti	47	2	He	51.447	51.447	2.39	8042	0.64	2000	
Cu	63	1	No Gas	53.583	53.583	3.34	616180	0.01	2000	
Zn	66	1	No Gas	62.728	62.728	2.27	206282	0.03	2000	
Se	82	1	No Gas	50.850	50.850	2.98	11775	0.43	2000	
Cd	111	2	He	46.722	46.722	3.35	72142	0.06	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	490187	1.65	522841	93.75	70	120	
Ge	72	2	He	543914	0.52	540641	100.61	70	120	
Ge	72	1	No Gas	2343419	1.48	2314031	101.27	70	120	
Bi	209	1	No Gas	2864819	0.84	3008975	95.21	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01MSD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:24:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	39.876	39.876	1.92	311210	0.01	2000	
Be	9	1	No Gas	48.782	48.782	2.66	104221	0.05	2000	
V	51	2	He	50.016	50.016	0.44	186946	0.03	2000	
Cr	52	2	He	51.060	51.060	1.27	225364	0.02	2000	
Fe	56	2	He	5117.849	5117.849	1.44	20763511	0.02	200000	
Se	78	2	He	48.955	48.955	3.43	4037	1.21	2000	
As	75	2	He	50.145	50.145	1.91	38579	0.13	2000	
Ca	44	2	He	59790.530	59790.530	0.28	1739235	3.44	200000	
Na	23	2	He	239073.506	239073.506	1.50	154873738	0.15	200000	>LDR
Mg	24	2	He	46433.731	46433.731	1.03	18247372	0.25	200000	
K	39	2	He	5750.165	5750.165	1.57	3373311	0.17	200000	
Mn	55	2	He	384.347	384.347	2.02	1382883	0.03	2000	
Co	59	2	He	51.451	51.451	1.70	321495	0.02	2000	
Ni	60	2	He	57.872	57.872	2.07	91425	0.06	2000	
Cu	63	2	He	53.062	53.062	2.22	216888	0.02	2000	
Zn	66	2	He	63.647	63.647	1.44	58392	0.11	2000	
Al	27	2	He	101.904	101.904	3.27	28814	0.35	2000	
B	11	1	No Gas	30.347	30.347	4.61	39833	0.08	2000	
Al	27	1	No Gas	105.608	105.608	5.70	1041931	0.01	2000	
Si	28	1	No Gas	19331.586	19331.586	4.09	103124612	0.02	2000	>LDR
Ag	107	1	No Gas	49.037	49.037	3.20	895180	0.01	2000	
Cd	111	1	No Gas	50.611	50.611	3.17	183606	0.03	2000	
Sr	88	1	No Gas	1122.946	1122.946	2.64	36493682	0.00	2000	
Mo	95	1	No Gas	51.184	51.184	2.44	338477	0.02	2000	
Sn	118	1	No Gas	0.089	0.089	24.18	3381	0.00	2000	
Sb	121	1	No Gas	52.501	52.501	3.50	819387	0.01	2000	
Ba	137	1	No Gas	296.419	296.419	2.86	1773173	0.02	2000	
Tl	205	1	No Gas	39.661	39.661	2.57	1418758	0.00	2000	
Tl	203	1	No Gas	39.728	39.728	2.13	579824	0.01	2000	
Pb	208	1	No Gas	51.174	51.174	2.78	2453210	0.00	2000	
U	238	1	No Gas	2.219	2.219	2.76	106547	0.00	2000	
Ca	43	2	He	61013.176	61013.176	1.90	105975	57.57	200000	
Sb	121	2	He	50.442	50.442	1.47	256107	0.02	2000	
Ti	47	2	He	52.352	52.352	0.81	8133	0.64	2000	
Cu	63	1	No Gas	55.775	55.775	3.23	625000	0.01	2000	
Zn	66	1	No Gas	65.757	65.757	2.68	210492	0.03	2000	
Se	82	1	No Gas	53.106	53.106	2.95	11965	0.44	2000	
Cd	111	2	He	49.053	49.053	1.92	75830	0.06	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	485058	0.83	522841	92.77	70	120	
Ge	72	2	He	540485	0.85	540641	99.97	70	120	
Ge	72	1	No Gas	2284283	2.45	2314031	98.71	70	120	
Bi	209	1	No Gas	2833120	1.38	3008975	94.16	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:26:04-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	37.650	37.650	2.82	288968	0.01	2000	
Be	9	1	No Gas	95.584	95.584	2.55	199620	0.05	2000	
V	51	2	He	96.290	96.290	2.66	350219	0.03	2000	
Cr	52	2	He	96.759	96.759	3.00	411208	0.02	2000	
Fe	56	2	He	9818.573	9818.573	2.53	38874549	0.03	200000	
Se	78	2	He	97.238	97.238	4.47	7686	1.27	2000	
As	75	2	He	96.809	96.809	2.30	72541	0.13	2000	
Ca	44	2	He	61463.147	61463.147	2.25	1745339	3.52	200000	
Na	23	2	He	225781.499	225781.499	2.50	142776185	0.16	200000	>LDR
Mg	24	2	He	47953.162	47953.162	2.58	18396413	0.26	200000	
K	39	2	He	10232.779	10232.779	1.62	5801879	0.18	200000	
Mn	55	2	He	399.116	399.116	1.45	1401738	0.03	2000	
Co	59	2	He	96.762	96.762	2.44	590168	0.02	2000	
Ni	60	2	He	101.515	101.515	2.43	156474	0.06	2000	
Cu	63	2	He	97.891	97.891	1.79	390127	0.03	2000	
Zn	66	2	He	105.896	105.896	1.62	93994	0.11	2000	
Al	27	2	He	140.833	140.833	2.10	38672	0.36	2000	
B	11	1	No Gas	28.123	28.123	3.31	36489	0.08	2000	
Al	27	1	No Gas	144.881	144.881	3.50	1416738	0.01	2000	
Si	28	1	No Gas	18192.808	18192.808	1.71	96659765	0.02	2000	>LDR
Ag	107	1	No Gas	93.180	93.180	1.82	1693004	0.01	2000	
Cd	111	1	No Gas	97.863	97.863	0.85	352693	0.03	2000	
Sr	88	1	No Gas	1056.419	1056.419	2.24	34179489	0.00	2000	
Mo	95	1	No Gas	98.762	98.762	2.73	649932	0.02	2000	
Sn	118	1	No Gas	0.054	0.054	7.19	2964	0.00	2000	
Sb	121	1	No Gas	100.242	100.242	1.80	1557338	0.01	2000	
Ba	137	1	No Gas	328.502	328.502	0.78	1952039	0.02	2000	
Tl	205	1	No Gas	99.708	99.708	1.94	3613837	0.00	2000	
Tl	203	1	No Gas	102.677	102.677	2.35	1518255	0.01	2000	
Pb	208	1	No Gas	98.657	98.657	2.23	4792390	0.00	2000	
U	238	1	No Gas	2.075	2.075	2.73	100978	0.00	2000	
Ca	43	2	He	61550.262	61550.262	1.46	104356	58.98	200000	
Sb	121	2	He	96.320	96.320	1.99	477183	0.02	2000	
Ti	47	2	He	99.397	99.397	1.82	15065	0.66	2000	
Cu	63	1	No Gas	101.254	101.254	3.29	1128446	0.01	2000	
Zn	66	1	No Gas	109.096	109.096	2.24	344487	0.03	2000	
Se	82	1	No Gas	103.309	103.309	3.13	22753	0.45	2000	
Cd	111	2	He	93.484	93.484	1.56	143489	0.07	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	474198	0.59	522841	90.70	70	120	
Ge	72	2	He	527630	0.50	540641	97.59	70	120	
Ge	72	1	No Gas	2273541	0.81	2314031	98.25	70	120	
Bi	209	1	No Gas	2871148	1.95	3008975	95.42	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	041_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:31:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	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	99.191	3.992	730013	2.90	100	99.2	90	110	
Be	9	1	No Gas	97.804	2.164	209610	1.51	100	97.8	90	110	
V	51	2	He	99.342	1.489	371768	1.68	100	99.3	90	110	
Cr	52	2	He	100.873	1.506	440870	1.84	100	100.9	90	110	
Fe	56	2	He	10099.969	1.843	41151292	2.24	10000	101.0	90	110	
Se	78	2	He	101.909	3.007	8281	3.21	100	101.9	90	110	
As	75	2	He	98.662	2.367	76078	2.75	100	98.7	90	110	
Ca	44	2	He	10013.597	2.729	293052	3.14	10000	100.1	90	110	
Na	23	2	He	10162.229	1.118	6630642	1.38	10000	101.6	90	110	
Mg	24	2	He	10198.543	0.998	4026374	1.16	10000	102.0	90	110	
K	39	2	He	9920.816	1.812	5790850	2.14	10000	99.2	90	110	
Mn	55	2	He	100.671	1.890	364042	2.24	100	100.7	90	110	
Co	59	2	He	101.337	1.514	636055	1.89	100	101.3	90	110	
Ni	60	2	He	100.721	1.115	159764	1.63	100	100.7	90	110	
Cu	63	2	He	100.792	1.989	413343	2.03	100	100.8	90	110	
Zn	66	2	He	99.092	2.562	90598	2.76	100	99.1	90	110	
Al	27	2	He	99.355	1.503	28232	1.89	100	99.4	90	110	
B	11	1	No Gas	499.405	1.979	571685	1.35	500	99.9	90	110	
Al	27	1	No Gas	102.268	1.973	1031067	1.30	100	102.3	90	110	
Si	28	1	No Gas	505.963	2.195	3010960	1.97	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.108	3.166	1939489	2.67	100	104.1	90	110	
Cd	111	1	No Gas	100.788	2.853	375198	0.74	100	100.8	90	110	
Sr	88	1	No Gas	102.249	0.887	3393417	1.34	100	102.2	90	110	
Mo	95	1	No Gas	100.021	1.843	674977	1.20	100	100.0	90	110	
Sn	118	1	No Gas	100.474	2.200	1202586	1.66	100	100.5	90	110	
Sb	121	1	No Gas	99.757	1.766	1589147	1.16	100	99.8	90	110	
Ba	137	1	No Gas	98.772	2.876	606377	0.97	100	98.8	90	110	
Tl	205	1	No Gas	102.037	0.738	3854458	1.39	100	102.0	90	110	
Tl	203	1	No Gas	104.553	2.181	1611343	2.46	100	104.6	90	110	
Pb	208	1	No Gas	102.747	0.790	5201799	1.31	100	102.7	90	110	
U	238	1	No Gas	102.870	2.525	5198050	2.35	100	102.9	90	110	
Ca	43	2	He	9829.831	4.007	17154	3.62	10000	98.3	90	110	
Sb	121	2	He	98.618	2.455	502773	2.71	100	98.6	90	110	
Ti	47	2	He	97.768	0.139	15249	0.60	100	97.8	90	110	
Cu	63	1	No Gas	100.474	0.900	1148393	0.93	100	100.5	90	110	
Se	82	1	No Gas	103.366	3.650	23337	3.20	100	103.4	90	110	
Zr	90	2	He	88.861	2.158	583956	2.39	100	88.9	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	91.040	1.650	1939451	1.00	100	91.0	90	110	
Cd	111	2	He	100.907	1.652	161360	1.48	100	100.9	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	486656	1.27	522841	93.08	70	120	
Ge	72	2	He	542975	0.60	540641	100.43	70	120	
Ge	72	1	No Gas	2331360	1.12	2314031	100.75	70	120	
Bi	209	1	No Gas	2991977	1.08	3008975	99.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	042_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:33:38-05:00
Sample Type	CCB
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	Upper Limit	QC Flag
Li	7	1	No Gas	-0.085	-40.0	31951	0.2	2.5	
Be	9	1	No Gas	0.136	37.5	337	33.0	2.5	
V	51	2	He	-0.114	-60.8	880	30.0	2.5	
Cr	52	2	He	-0.581	-11.4	4124	7.0	2.5	
Fe	56	2	He	9.478	10.4	52936	8.1	250	
Se	78	2	He	0.005	3763.4	152	11.2	5	
As	75	2	He	-0.003	-2133.4	183	27.1	2.5	
Ca	44	2	He	7.670	68.0	727	21.3	250	
Na	23	2	He	94.912	7.1	81726	5.7	250	
Mg	24	2	He	9.218	16.1	4107	15.1	250	
K	39	2	He	7.362	27.1	82566	0.7	250	
Mn	55	2	He	0.120	18.2	690	10.9	2.5	
Co	59	2	He	0.067	32.9	453	31.5	2.5	
Ni	60	2	He	0.081	34.6	233	19.3	2.5	
Cu	63	2	He	0.030	67.0	670	12.8	5	
Zn	66	2	He	-0.480	-12.0	890	5.9	2.5	
Al	27	2	He	2.135	4.3	1150	3.1	2.5	
B	11	1	No Gas	-0.185	-231.7	5576	8.3	10	
Al	27	1	No Gas	1.828	9.1	36802	2.6	2.5	
Si	28	1	No Gas	-0.911	-133.9	256251	0.8	10	
Ag	107	1	No Gas	0.125	36.3	3087	25.3	2.5	
Cd	111	1	No Gas	0.124	22.9	468	23.7	2.5	
Sr	88	1	No Gas	0.204	20.3	7552	16.0	2.5	
Mo	95	1	No Gas	0.284	18.2	2197	13.8	2.5	
Sn	118	1	No Gas	0.238	20.5	5221	9.3	2.5	
Sb	121	1	No Gas	0.820	22.7	13644	19.6	2.5	
Ba	137	1	No Gas	0.249	12.4	1747	10.7	2.5	
Tl	205	1	No Gas	0.230	24.2	9704	20.7	2.5	
Tl	203	1	No Gas	0.237	22.7	4031	19.4	2.5	
Pb	208	1	No Gas	0.154	23.0	9268	18.2	2.5	
U	238	1	No Gas	0.140	31.3	7699	27.8	2.5	
Ca	43	2	He	37.342	33.8	73	31.5	250	
Sb	121	2	He	0.562	4.3	3147	3.5	2.5	
Ti	47	2	He	0.124	100.8	30	66.7	2.5	
Cu	63	1	No Gas	0.128	43.3	2994	19.0	2.5	
Se	82	1	No Gas	-0.448	-50.9	360	12.1	5	
Zr	90	2	He	0.375	16.5	3407	12.6	5	
Zr	90	1	No Gas	0.670	21.0	15663	17.0	5	
Cd	111	2	He	0.079	7.5	142	8.1	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

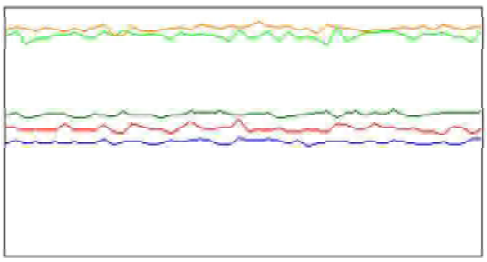
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	506712	0.96	522841	96.92	70	120	
Ge	72	2	He	553577	1.01	540641	102.39	70	120	
Ge	72	1	No Gas	2328854	2.05	2314031	100.64	70	120	
Bi	209	1	No Gas	3088206	1.75	3008975	102.63	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq. Date-Time	5/15/2024 10:31:10 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[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	5000	2580	25796.84		
24	10000	8915	89154.38		
59	50000	23132	231319.75		
115	50000	46067	460668.08		
208	50000	28724	287244.86		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.533	5.000	
24	1.710	5.000	
59	1.486	5.000	
115	1.235	5.000	
208	1.499	5.000	

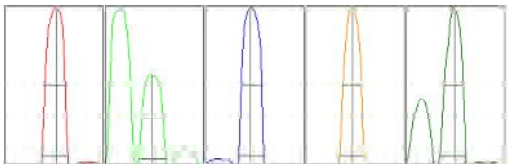
Mass	Background	Background (Required)	Background (Flag)
9	0.800		
24	0.300		
59	0.500		
115	0.400		
208	2.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.199 %
Doubly Charged	70 / 140 0.553 %

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	2674.38	9.10	8.90 - 9.10	
24	8967.20	23.95	23.90 - 24.10	
59	23587.39	58.90	58.90 - 59.10	
115	46902.68	114.95	114.90 - 115.10	
208	28757.50	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.784		
24	0.66	0.830		
59	0.63	0.741		
115	0.56	0.730		
208	0.59	0.784		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.0 V	Deflect	18.0 V
Extract 2	-190.0 V	Cell Entrance	-60 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-60 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	185 V		

QP Parameters

Mass Gain	129	Axis Gain	0.9994	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm

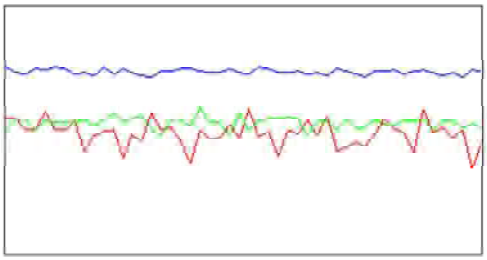
EM

Discriminator	4.5 mV	Analog HV	2136 V	Pulse HV	1032 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	200	97	974.43		
24	1000	531	5311.01		
59	10000	7386	73862.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

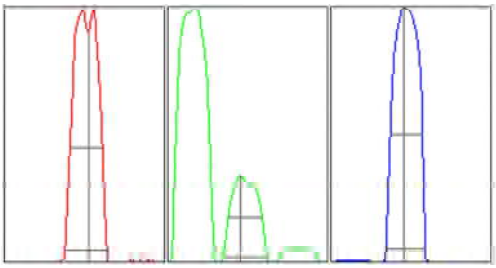
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	10.978	5.000	Fail
24	4.357	5.000	
59	1.510	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.100		
24	0.200		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.546 %
Doubly Charged	70 / 140 0.688 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	92.26	9.10	8.90 - 9.10	
24	548.88	23.90	23.90 - 24.10	
59	7420.27	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.782		
24	0.65	0.826		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.737		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.0 V	Deflect	1.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	3.6 mL/min	OctP Bias	-15.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	129	Axis Gain	0.9994	QP Bias	-11.0 V
Mass Offset	125	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm		

EM

Discriminator	4.5 mV	Analog HV	2136 V	Pulse HV	1032 V

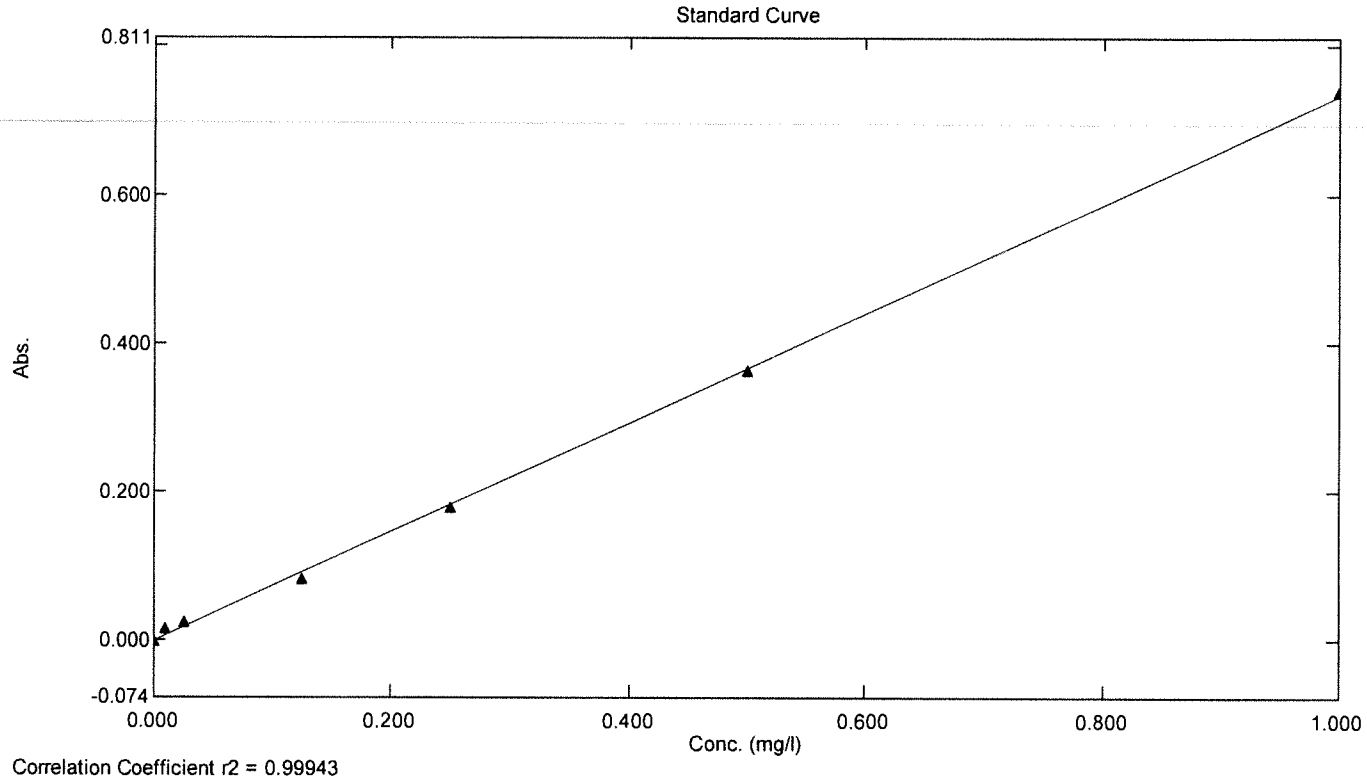
HS24050529 Wetchem Cr6_W_7196_DOD

ALS WO# HS24050529

Standard Table Report

06/14/2024 12:01:26 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



Correlation Coefficient r2 = 0.99943

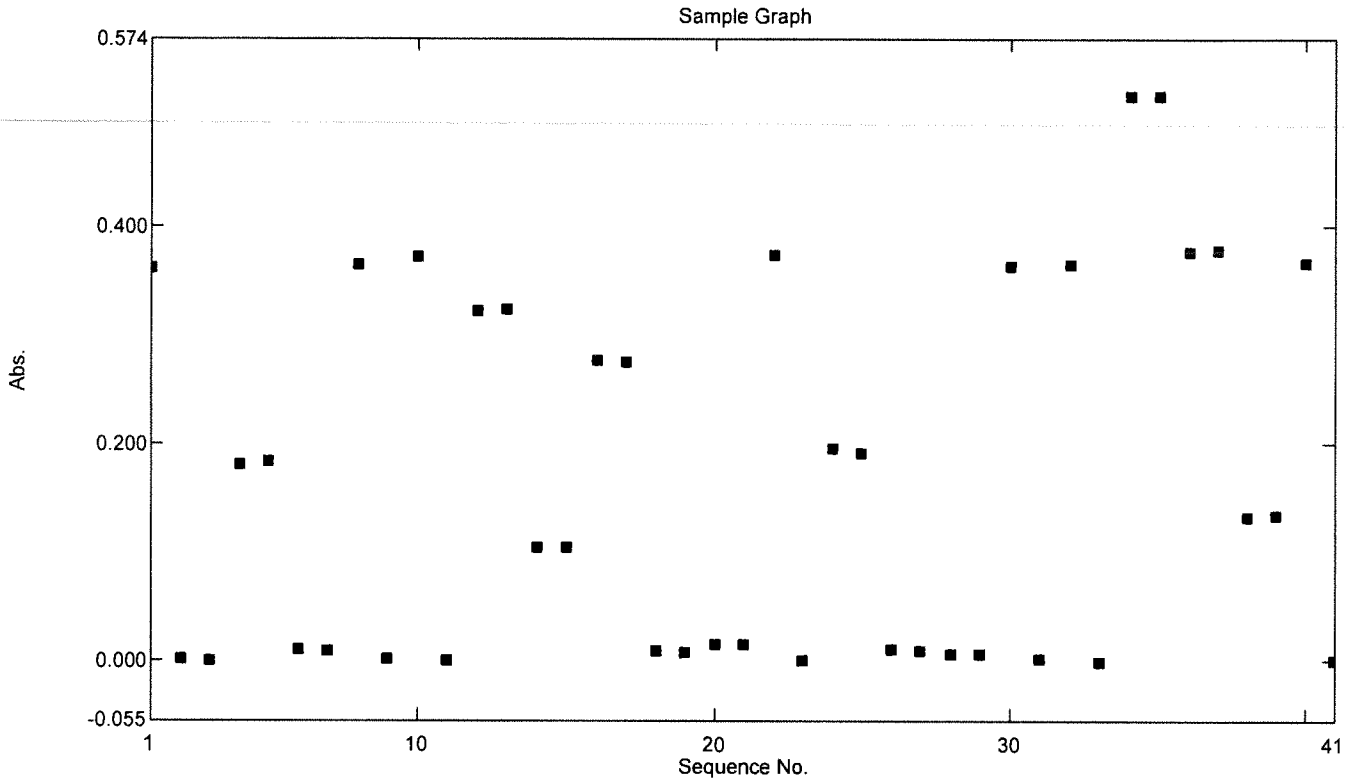
Standard Table

	Sample ID	Type	Ex	Conc	WL540.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.016	1.000	
3	STD3	Standard		0.025	0.024	1.000	
4	STD4	Standard		0.125	0.082	1.000	
5	STD5	Standard		0.250	0.179	1.000	
6	STD6	Standard		0.500	0.363	1.000	
7	STD7	Standard		1.000	0.737	1.000	05/22/2024
8							

Sample Table Report

06/14/2024 12:03:56 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



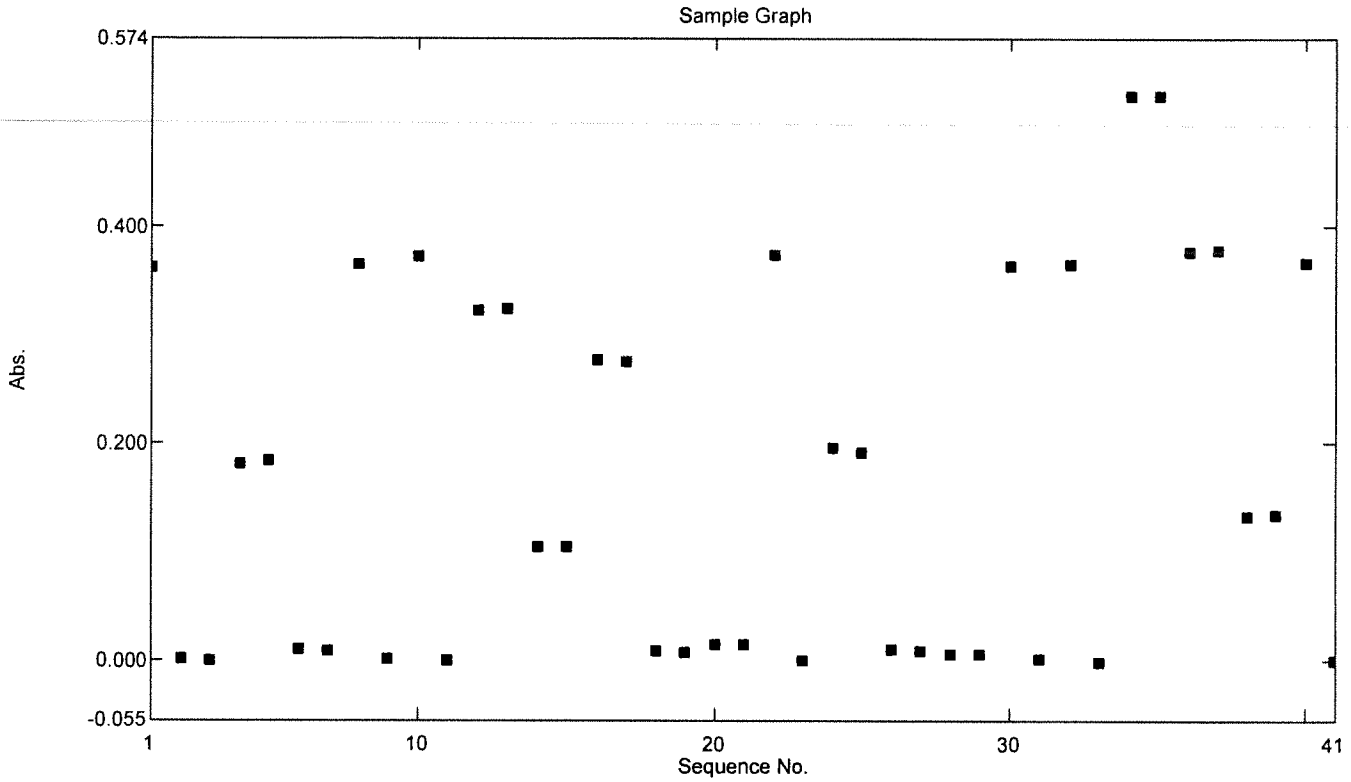
Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
1	CCV	Unknown		05/09/2024	10:10:23 AM	0.493	0.362	325102201 WC-19
2	CCB	Unknown		05/09/2024	10:11:01 AM	0.002	0.001	3100608622
3	MBLK	Unknown		05/09/2024	10:11:16 AM	0.000	0.000	325102505 WC-29
4	LCS	Unknown		05/09/2024	10:14:17 AM	0.247	0.181	325102202 WC-19
5	LCSD	Unknown		05/09/2024	10:14:37 AM	0.250	0.184	
6	HS24050502.23	Unknown		05/09/2024	10:15:36 AM	0.013	0.009	
7	HS24050502.23	Unknown		05/09/2024	10:16:20 AM	0.012	0.008	0.001
8	CCV2	Unknown		05/09/2024	10:17:14 AM	0.497	0.364	
9	CCB2	Unknown		05/09/2024	10:17:26 AM	0.001	0.001	
10	CCV3	Unknown		05/09/2024	11:55:27 AM	0.508	0.373	
11	CCB3	Unknown		05/09/2024	11:55:45 AM	-0.001	-0.001	
12	HS24050523.08	Unknown		05/09/2024	11:56:35 AM	0.440	0.323	DF:10X
13	HS24050523.08BKG	Unknown		05/09/2024	11:57:07 AM	0.441	0.323	DF:10X, -0.001
14	HS24050523.09	Unknown		05/09/2024	11:57:49 AM	0.142	0.104	DF:10X
15	HS24050523.09BKG	Unknown		05/09/2024	11:58:05 AM	0.143	0.105	DF:10X, -0.001
16	HS24050523.10	Unknown		05/09/2024	11:59:05 AM	0.378	0.277	
17	HS24050523.10BKG	Unknown		05/09/2024	11:59:24 AM	0.376	0.276	0.002
18	HS24050523.11	Unknown		05/09/2024	12:00:16 PM	0.011	0.008	DF:2X
19	HS24050523.11BKG	Unknown		05/09/2024	12:00:38 PM	0.010	0.008	DF:2X, 0.001

Sample Table Report

06/14/2024 12:03:56 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



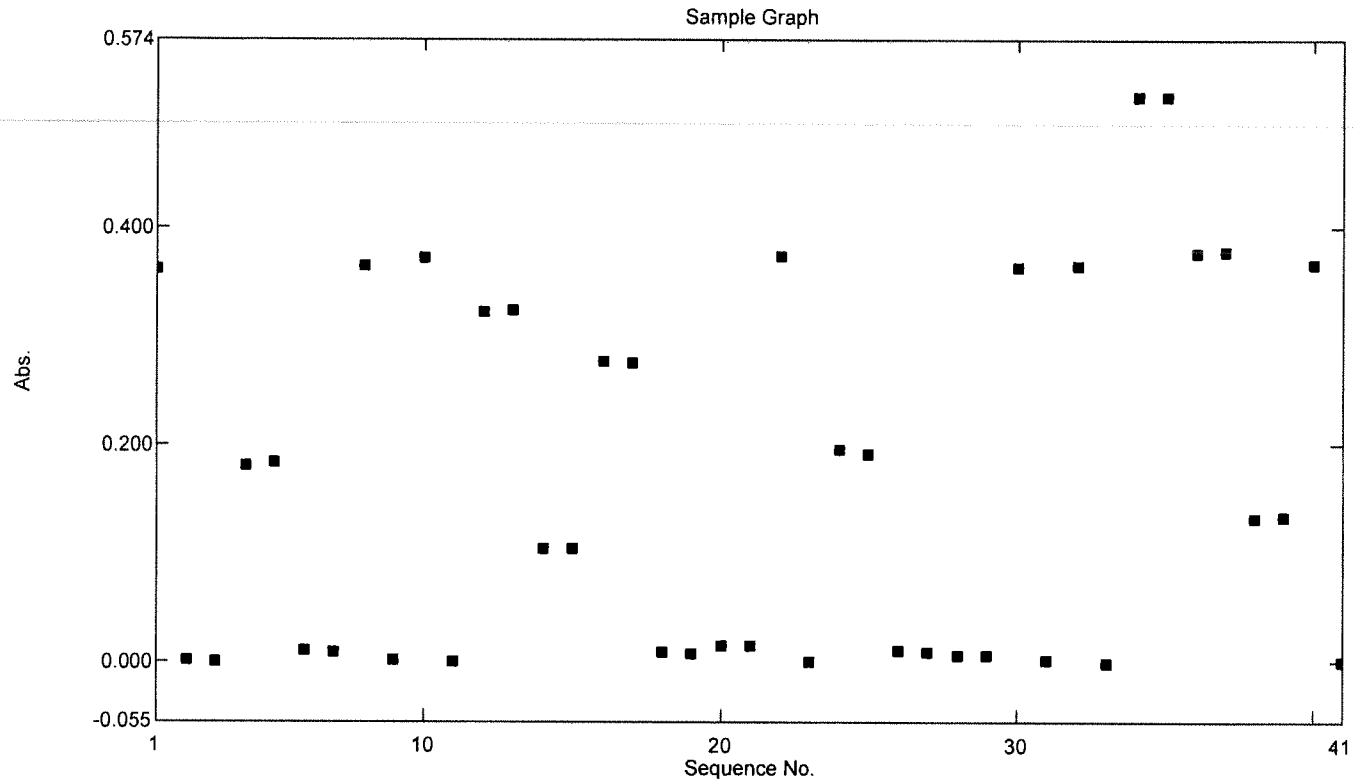
Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
20	HS24050523.12	Unknown		05/09/2024	12:02:49 PM	0.019	0.014	
21	HS24050523.12BKG	Unknown		05/09/2024	12:03:36 PM	0.019	0.014	0.000
22	CCV4	Unknown		05/09/2024	12:04:29 PM	0.510	0.374	
23	CCB4	Unknown		05/09/2024	12:04:55 PM	-0.000	-0.000	
24	HS24050523.12MS	Unknown		05/09/2024	12:06:26 PM	0.267	0.196	
25	HS24050523.12MSD	Unknown		05/09/2024	12:07:51 PM	0.261	0.192	
26	HS24050531.01	Unknown		05/09/2024	12:10:28 PM	0.014	0.010	
27	HS24050531.01BKG	Unknown		05/09/2024	12:10:57 PM	0.012	0.009	0.002
28	HS24050529.01	Unknown		05/09/2024	12:15:41 PM	0.008	0.006	
29	HS24050529.01BKG	Unknown		05/09/2024	12:16:09 PM	0.007	0.005	0.001
30	CCV5	Unknown		05/09/2024	12:16:40 PM	0.495	0.363	
31	CCB5	Unknown		05/09/2024	12:17:43 PM	0.000	0.000	
32	CCV6	Unknown		05/09/2024	04:49:43 PM	0.497	0.364	
33	CCB6	Unknown		05/09/2024	04:50:04 PM	-0.003	-0.003	
34	TERRACON 13	Unknown		05/09/2024	04:54:31 PM	0.711	0.522	DF:2X
35	TERRACON 13BKG	Unknown		05/09/2024	04:54:51 PM	0.710	0.521	DF:2X, 0.001
36	TERRACON 14	Unknown		05/09/2024	04:55:40 PM	0.513	0.376	DF:2X
37	TERRACON14BKG	Unknown		05/09/2024	04:55:59 PM	0.515	0.378	DF:2X, -0.002
38	TERRACON 15	Unknown		05/09/2024	04:57:12 PM	0.181	0.133	DF:2X

Sample Table Report

06/14/2024 12:03:56 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
39	TERRACON 15BKG	Unknown		05/09/2024	04:57:40 PM	0.181	0.133	DF:2X, 0.000
40	CCV7	Unknown		05/09/2024	04:58:58 PM	0.500	0.367	
41	CCB7	Unknown		05/09/2024	04:59:14 PM	-0.001	-0.001	
42								

HS24050529 E2400476 Perch Level IV Report

ALS WO# HS24050529

May 20, 2024 Service Request No:E2400476

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050529

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 09, 2024
For your reference, these analyses have been assigned our service request number **E2400476.**

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

Client:	ALS Environmental - US	Service Request No.:	E2400476
Project:	HS24050529	Date Received:	05/09/24
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 05/09/24.

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:

EQ2400230: 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:**E2400476
Project: HS24050529

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400476-001	LH18/24-SP140_050824	5/8/2024	1300

Service Request Summary

Folder #: **E2400476**
Client Name: ALS Environmental - US
Project Name: HS24050529
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: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400476-001	LH18/24-SP140_050824	Water	05/08/24 1300	**IV**

Service Request Summary

Folder #: **E2400476**
Client Name: ALS Environmental - US
Project Name: HS24050529
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: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
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 Hampshire Environmental Laboratory Accreditation Program	04016-2024	4/30/2025
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
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

E2400476 5
ALS Group USA, Corp.
HS24050529

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: 25598**

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:	HS24050529
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050529-01**	**LH18/24-SP140_050824**	**Water**	**08 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			16 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: 5/9/24 1020

Cooler ID(s): _____ Temperature(s): _____

E2400476 5
ALS Group USA, Corp.
HS24050529

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24050529 **Date/Time received:** 09 May 2024 10:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Nelson D. Dusara

Completed/By: 09 May 2024 11:49 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 05/09/2024 1150

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

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#: 438298 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 5/10/24 13:04

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400464-001	LGAC-INF-050624	.02	6850/ClO4 DOD			Water	10mL	
2	E2400476-001	LH18/24-SP140_050824	.01	6850/ClO4 DOD			Water	10mL	
3	E2400477-001	LH18/24-SP650_050824_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2400230-01	MB		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400230-02	LCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400230-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
7	EQ2400230-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400464-001 100.00µL E2400476-001 100.00µL E2400477-001 100.00µL EQ2400230-01 100.00µL EQ2400230-02 100.00µL EQ2400230-03 100.00µL
EQ2400230-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400230-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400230-02 100.00µL EQ2400230-03 100.00µL EQ2400230-04 100.00µL

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 (231696)

Preparation Steps

Step: Preparation
Started: 5/10/24 13:04
Finished: 5/10/24 16:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Preparation Information Benchsheet

Prep Run#: 438298
Team: Semivoa GCMS/JOSEL.JUAREZ

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/10/24 13:04

Chain of Custody

Relinquished By:		Date:		Extracts Examined
Received By:		Date:		Yes No

Analytical Results

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP140_050824	**Units:**	µg/L
Lab Code:	E2400476-001	**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	**24100**		100	50.0	25.0	1000	5/10/24	5/14/24 15:55	438298	840924	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400230-01	**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	5/10/24	5/10/24 17:15	438298	840923	

Accuracy & Precision

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Analyzed:**	5/10/24 - 5/14/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	438298

	Lab Control Sample EQ2400230-02			Duplicate Lab Control Sample EQ2400230-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0982	0.100	98	0.110	0.100	110	84 - 119	12	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:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-02	**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	**0.0982**	J	0.100	0.0500	0.0250	1	5/10/24	5/10/24 17:21	438298	840923	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-03	**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	**0.110**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:33	438298	840924	

ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

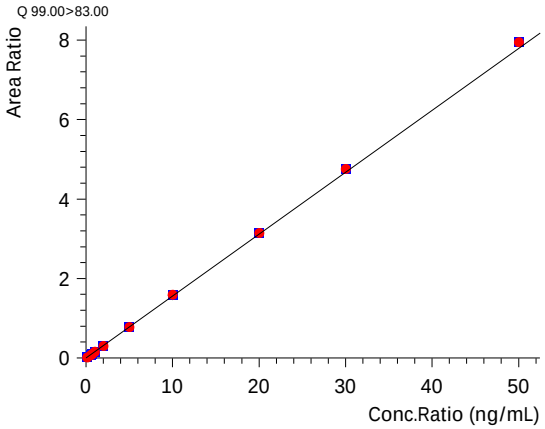
Insight Calibration Report

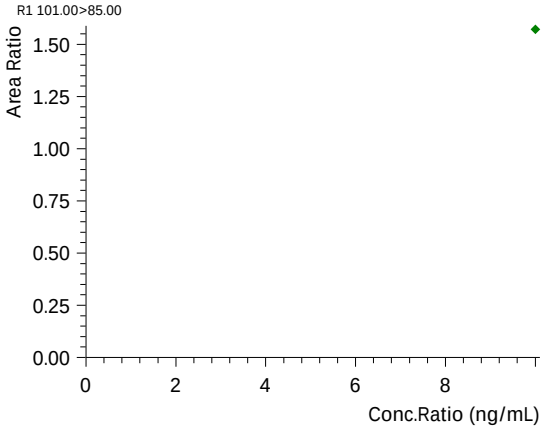
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

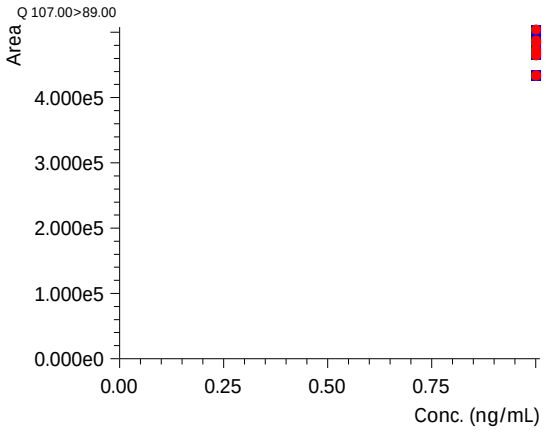
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

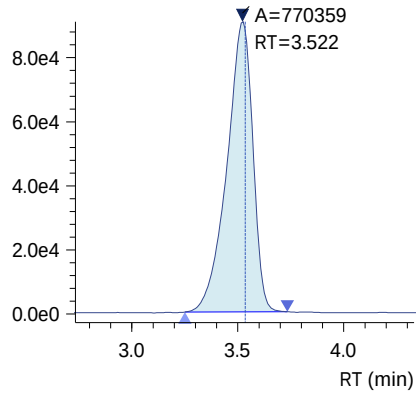
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

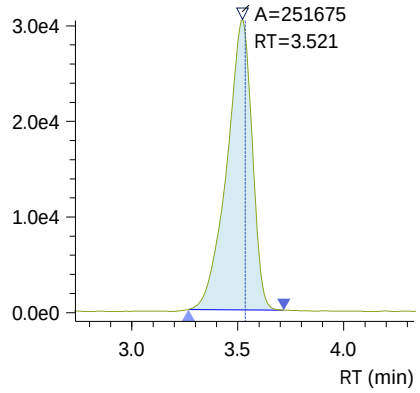
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



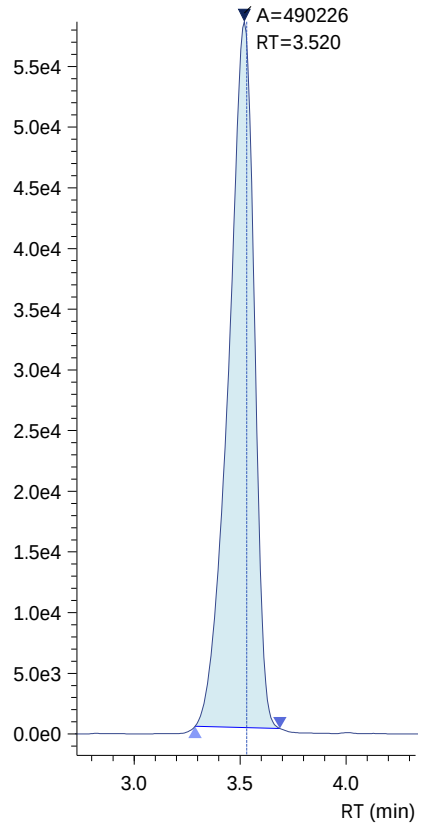
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

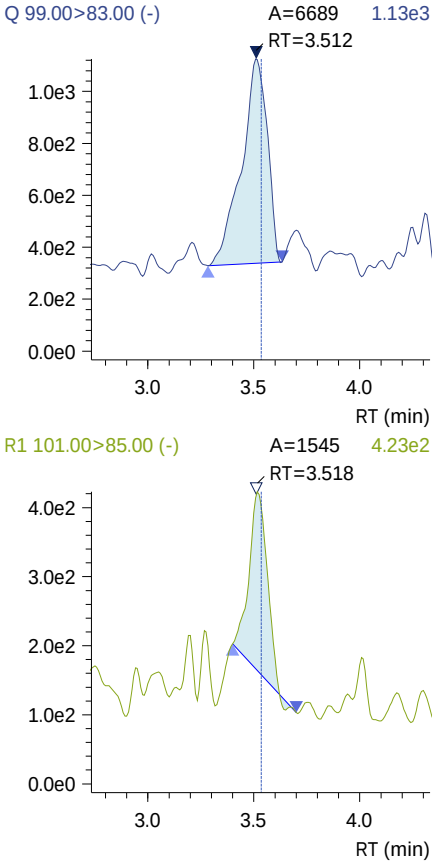
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

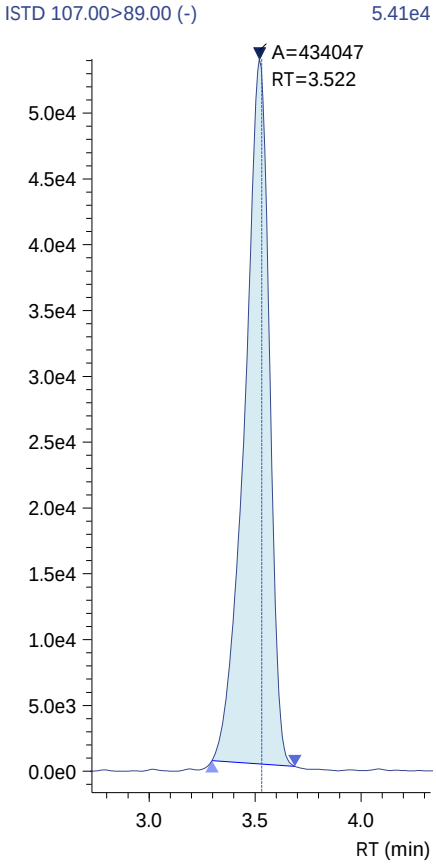
Perchlorate

Conc 0.0989
R#1 23.10 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

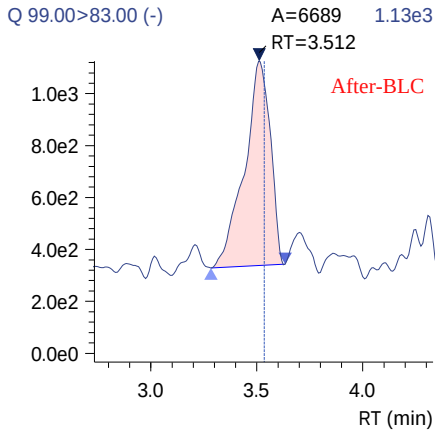
Perchlorate ICAL 1

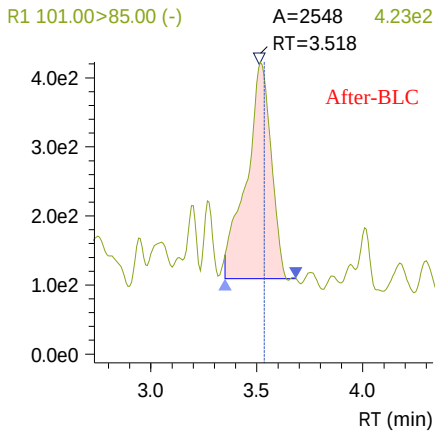
Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

Perchlorate

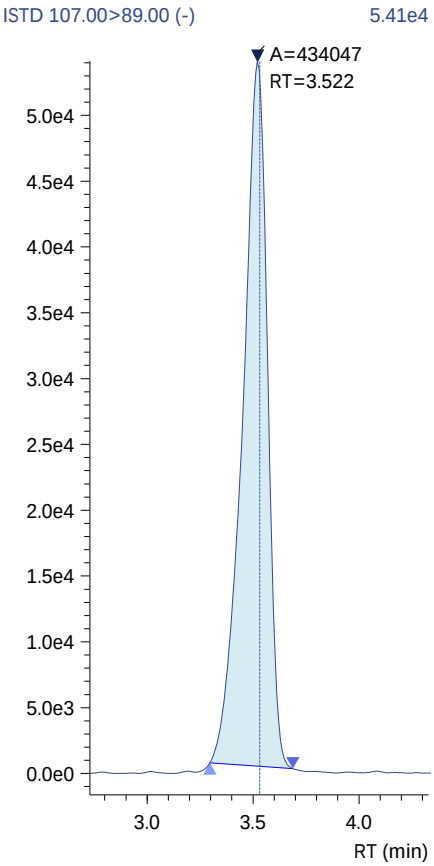
Conc 0.0989
R#1 38.09 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

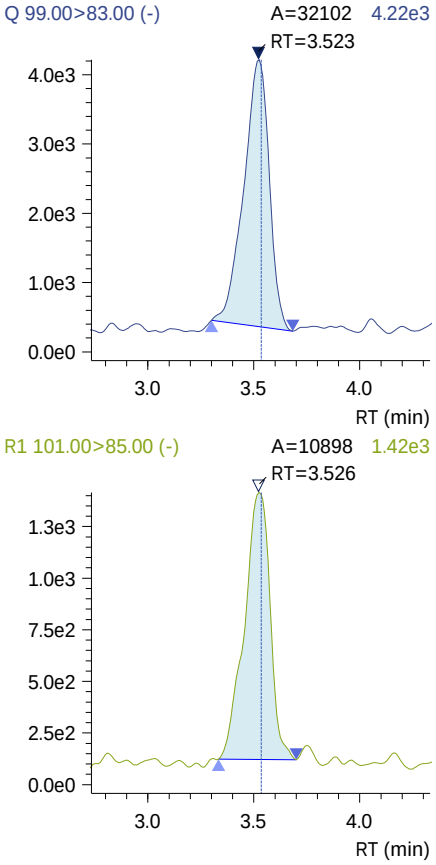
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.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	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

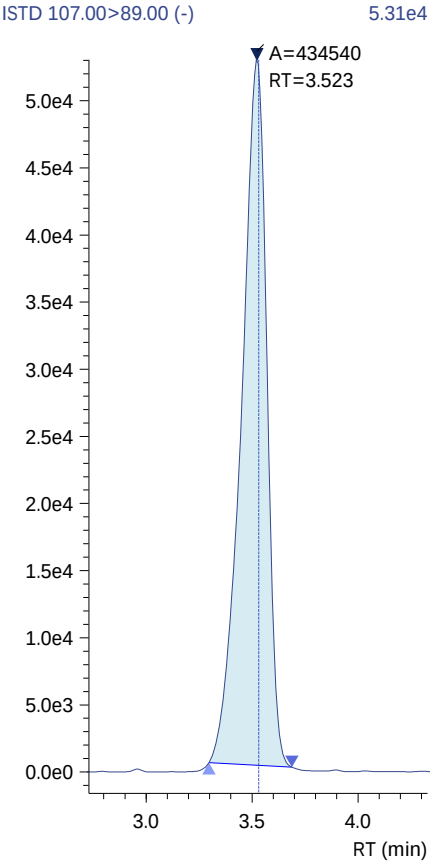
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:05:16 AM

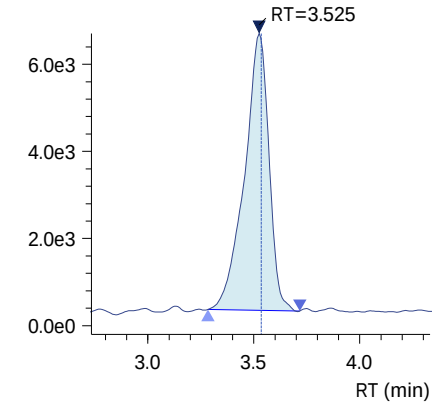
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

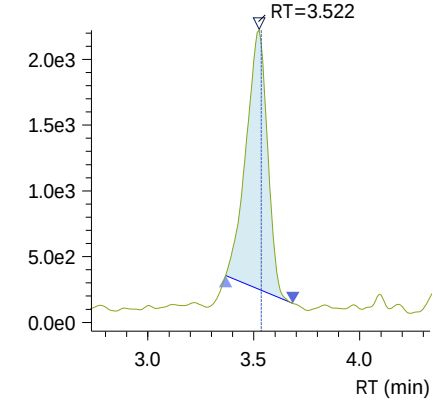
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



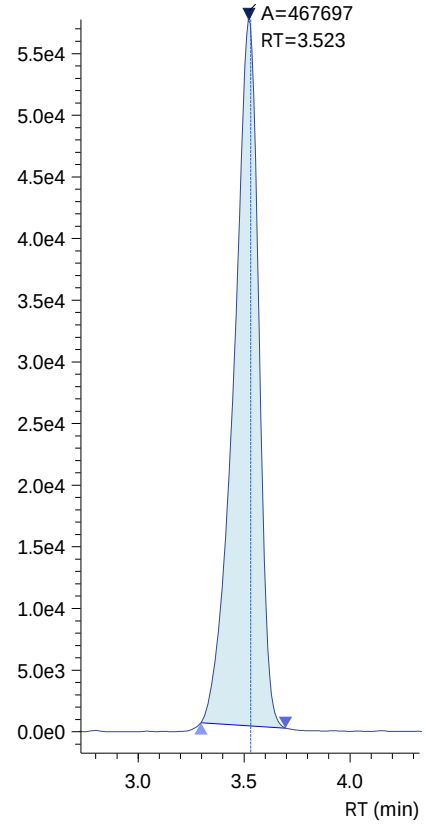
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 3

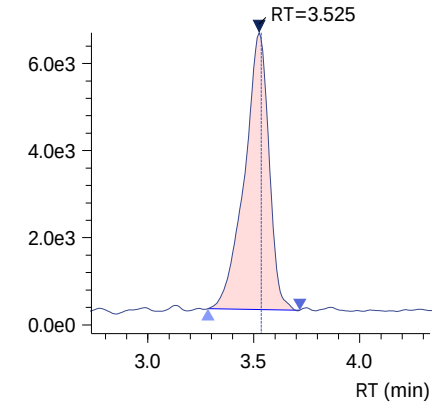
Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

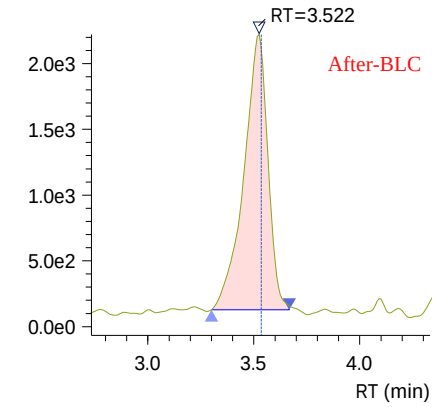
Perchlorate

Conc 0.6975
R#1 32.39 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



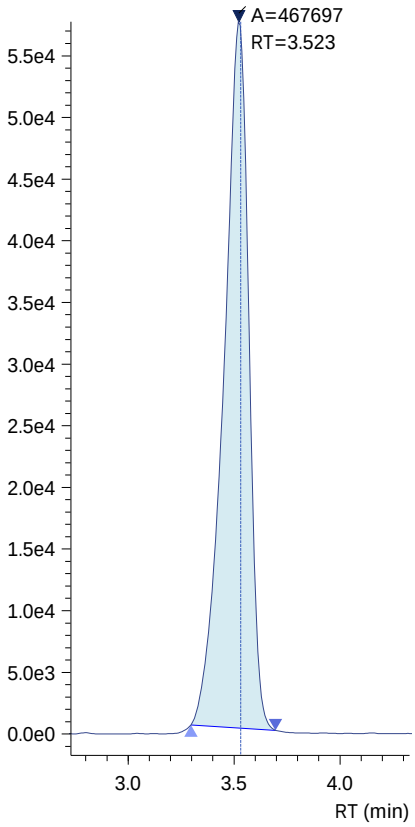
R1 101.00>85.00 (-) A=16465 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

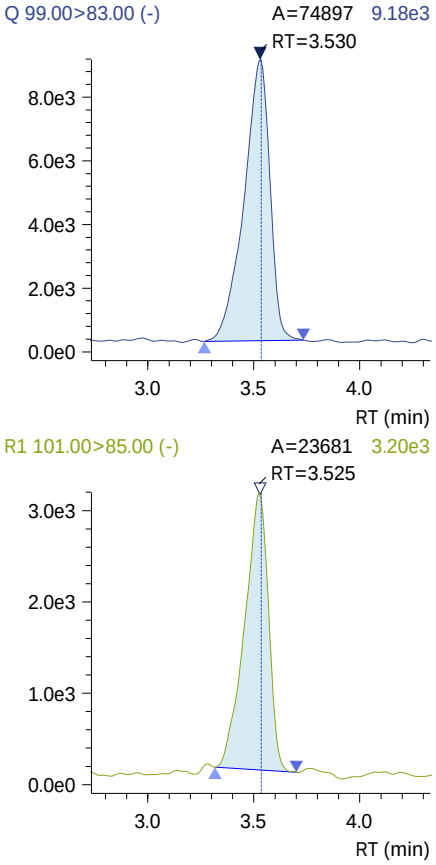
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.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	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

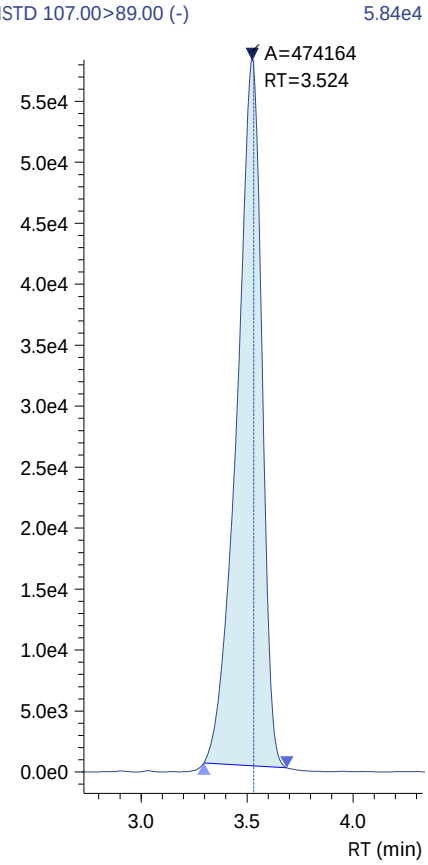
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

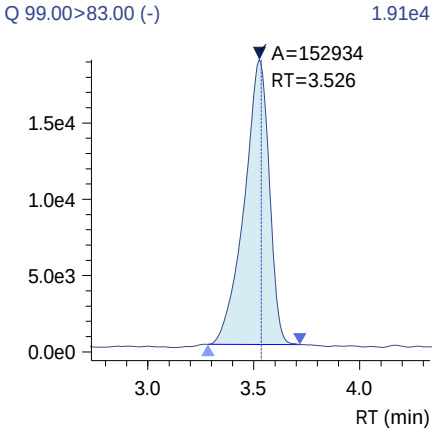
Perchlorate ICAL 5

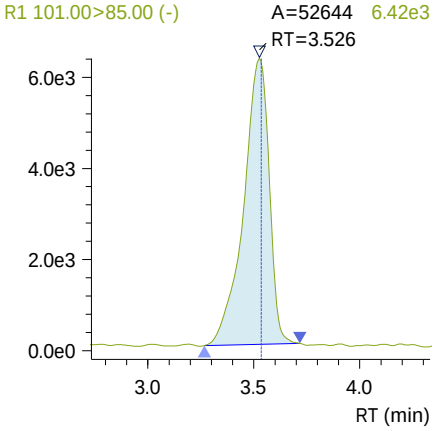
Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

Perchlorate

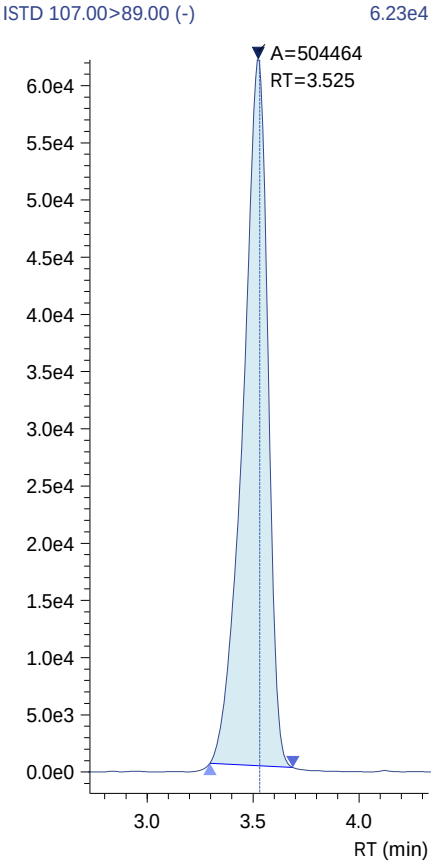
Conc 1.9458
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

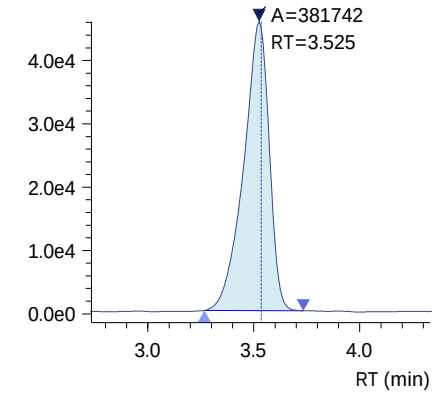
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

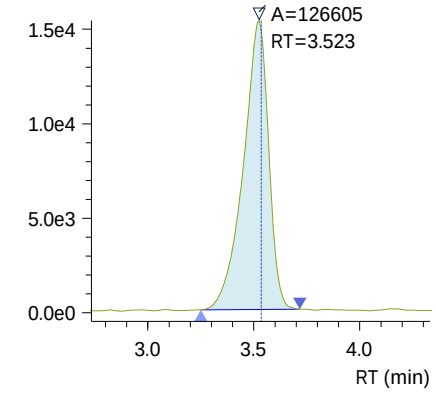
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



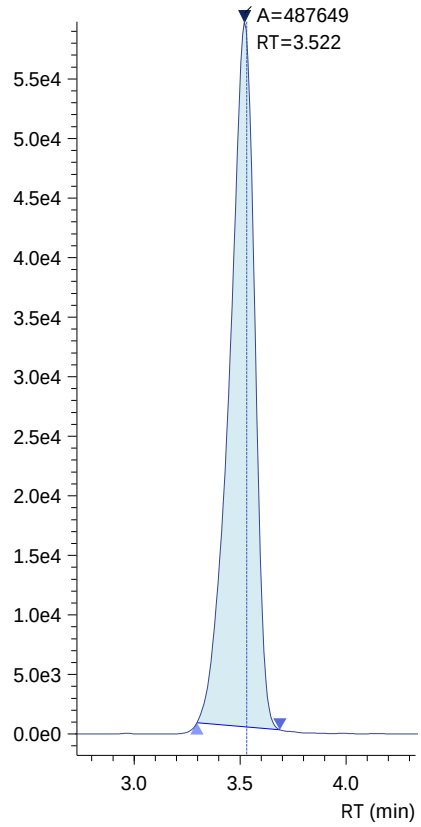
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

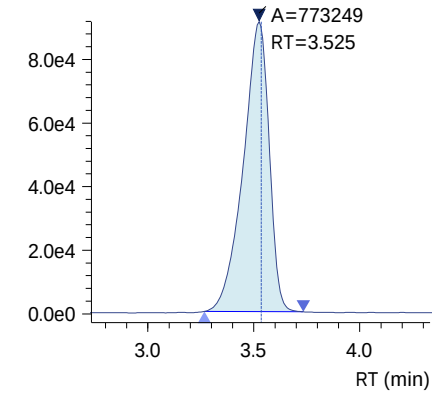
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

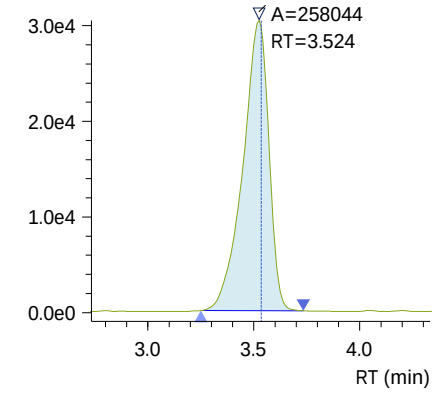
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



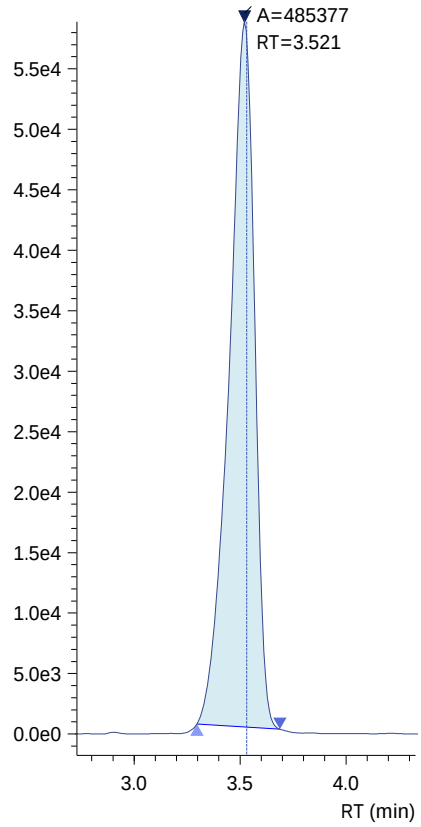
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

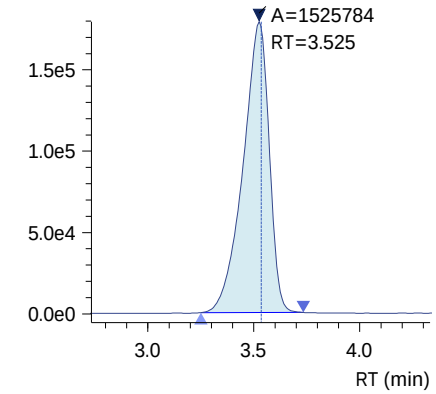
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

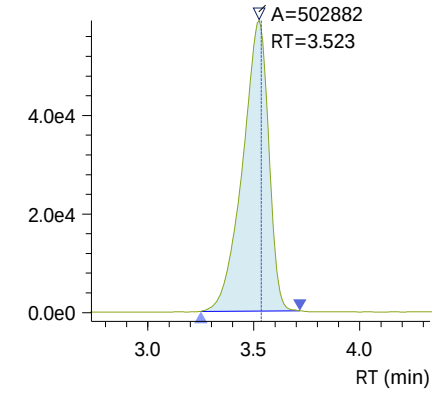
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



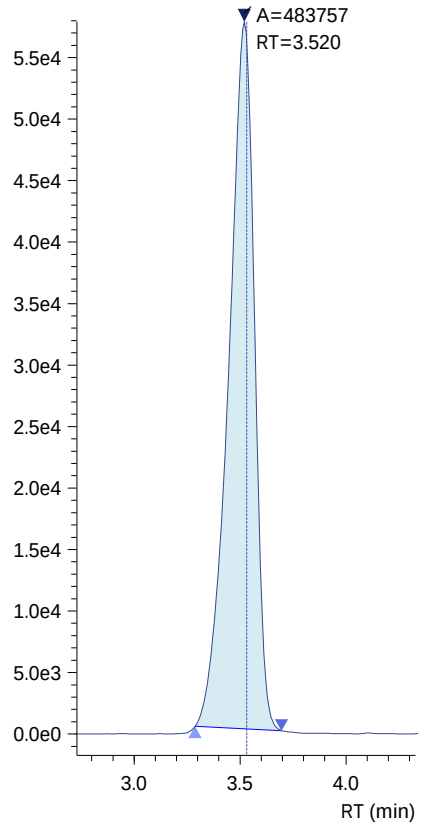
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

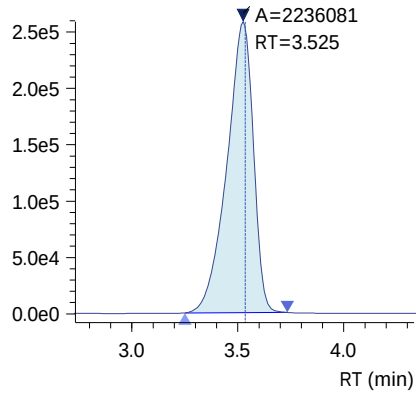
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360	469429	30.5	ng/mL	101.00	32.91	26.31
			81		732		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

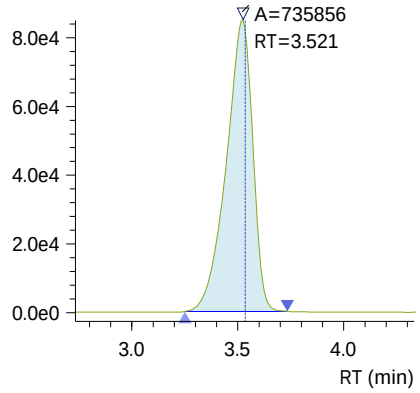
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



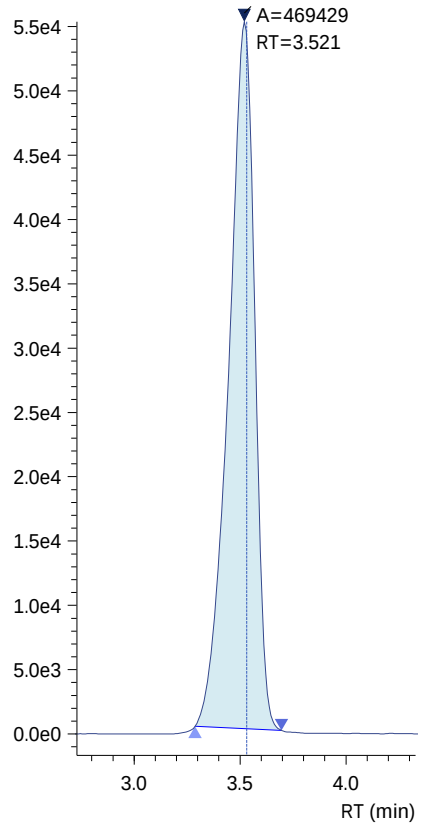
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

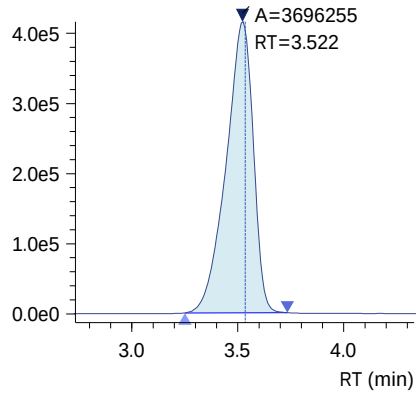
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

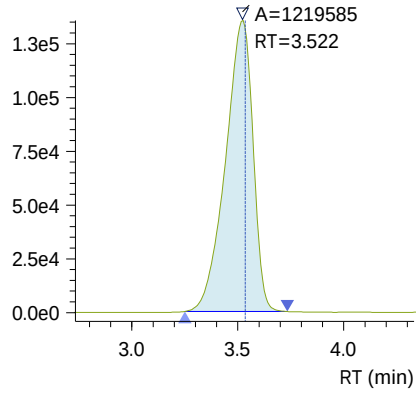
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



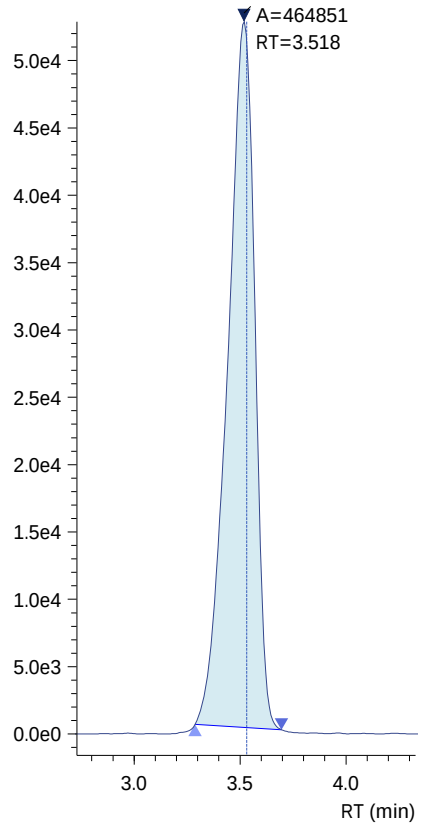
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

84627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x		4/24/2024 11:26
12	20240510-001	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:16
13	20240510-002	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:21
14	20240510-003	LODV	Perchlorate6850c.lcm	1x		5/10/2024 14:27
15	20240510-004	ICS	Perchlorate6850c.lcm	1x		5/10/2024 14:32
16	20240510-005	CCV	Perchlorate6850c.lcm	1x		5/10/2024 14:38
17	20240510-006	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:43
18	20240510-007	EQ2400229-01MB	Perchlorate6850c.lcm	1x		5/10/2024 15:58
19	20240510-008	EQ2400229-02LCS	Perchlorate6850c.lcm	1x		5/10/2024 16:03
20	20240510-009	EQ2400229-03DLCS	Perchlorate6850c.lcm	1x		5/10/2024 16:09
21	20240510-010	EQ2400229-04ICS	Perchlorate6850c.lcm	1x		5/10/2024 16:14
22	20240510-011	E2400473-003	Perchlorate6850c.lcm	1x	DNU incorrect spot	5/10/2024 16:20
23	20240510-012	E2400473-004	Perchlorate6850c.lcm	1x	DNU incorrect spot	5/10/2024 16:25
24	20240510-013	E2400420-001	Perchlorate6850c.lcm	1x		5/10/2024 16:31
25	20240510-014	EQ2400228-01MB	Perchlorate6850c.lcm	1x		5/10/2024 16:36
26	20240510-015	EQ2400228-02LCS1	Perchlorate6850c.lcm	1x		5/10/2024 16:42
27	20240510-016	EQ2400228-03LCS2	Perchlorate6850c.lcm	1x		5/10/2024 16:48
28	20240510-017	CCV	Perchlorate6850c.lcm	1x		5/10/2024 16:53
29	20240510-018	IB	Perchlorate6850c.lcm	1x		5/10/2024 16:59
30	20240510-019	E2400228-04LCS3	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 17:04
31	20240510-020	E2400228-04LCS4	Perchlorate6850c.lcm	1x		5/10/2024 17:10
32	20240510-021	EQ2400230-01MB	Perchlorate6850c.lcm	1x		5/10/2024 17:15
33	20240510-022	EQ2400230-02LCS	Perchlorate6850c.lcm	1x		5/10/2024 17:21
34	20240510-023	EQ2400230-03DLCS	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 17:26
35	20240510-024	EQ2400230-04ICS	Perchlorate6850c.lcm	1x		5/10/2024 17:32
36	20240510-025	E2400464-001	Perchlorate6850c.lcm	1x		5/10/2024 17:37
37	20240510-026	E2400476-001	Perchlorate6850c.lcm	1x	DNU ISs	5/10/2024 17:43
38	20240510-027	E2400477-001	Perchlorate6850c.lcm	1x	DNU possible C/O	5/10/2024 17:48
39	20240510-028	CCV	Perchlorate6850c.lcm	1x		5/10/2024 17:54
40	20240510-029	IB	Perchlorate6850c.lcm	1x		5/10/2024 18:00

84627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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
41	20240510-030	EQ2400231-01MB	Perchlorate6850c.lcm	1x		5/10/2024 18:05
42	20240510-031	EQ2400231-02LCS1	Perchlorate6850c.lcm	1x		5/10/2024 18:11
43	20240510-032	EQ2400231-03LCS2	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 18:16
44	20240510-033	EQ2400231-04LCS3	Perchlorate6850c.lcm	1x		5/10/2024 18:22
45	20240510-034	EQ2400231-05LCS4	Perchlorate6850c.lcm	1x		5/10/2024 18:27
46	20240510-035	CCV	Perchlorate6850c.lcm	1x		5/10/2024 18:33
47	20240510-036	IB	Perchlorate6850c.lcm	1x		5/10/2024 18:38

840627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x		4/24/2024 11:26
12	20240424-019	IB	Perchlorate6850c.lcm	1x		4/24/2024 11:32
13	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/24/2024 13:30
14	20240513-001	IB	Perchlorate6850c.lcm	1x		5/13/2024 16:11
15	20240513-002	IB	Perchlorate6850c.lcm	1x		5/13/2024 16:17
16	20240513-003	LODV	Perchlorate6850c.lcm	1x		5/13/2024 16:22
17	20240513-004	ICS	Perchlorate6850c.lcm	1x		5/13/2024 16:28
18	20240513-005	CCV	Perchlorate6850c.lcm	1x		5/13/2024 16:33
19	20240513-006	IB	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:39
20	20240513-007	E2400228-04LCS4	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:44
21	20240513-008	EQ2400231-03LCS2	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:50
22	20240513-009	EQ2400230-03DLCS	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:56
23	20240513-010	E2400473-003	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:01
24	20240513-011	E2400473-004	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:07
25	20240513-012	E2400477-001	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:12
26	20240513-013	E2400476-001 1000	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:18
27	20240513-014	CCV	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:23
28	20240513-015	IB	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:29
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

840627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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
41						
42						
43						
44						
45						
46						
47						

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400476
Project:	HS24050529	**Date Analyzed:**	5/10/24 17:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240510\20240510-028	**Lab Code:**	EQ2400234-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840923
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400234-03	307,886	3.50

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:**	E2400476
Project:	HS24050529	**Date Analyzed:**	5/10/24 18:33

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240510\20240510-035	**Lab Code:**	EQ2400234-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840923
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400234-04	301,911	3.50

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: HS24050529

Service Request: E2400476
Date Analyzed: 5/10/24

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\20240510\20240510-028

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840923
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1558	0.1659	6.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050529

Service Request: E2400476
Date Analyzed: 5/10/24

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\20240510\20240510-035

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840923
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1558	0.1649	5.8	NA	± 15 %	Average RF

Insight Report

Printed at 5/15/2024 3:04:29 PM

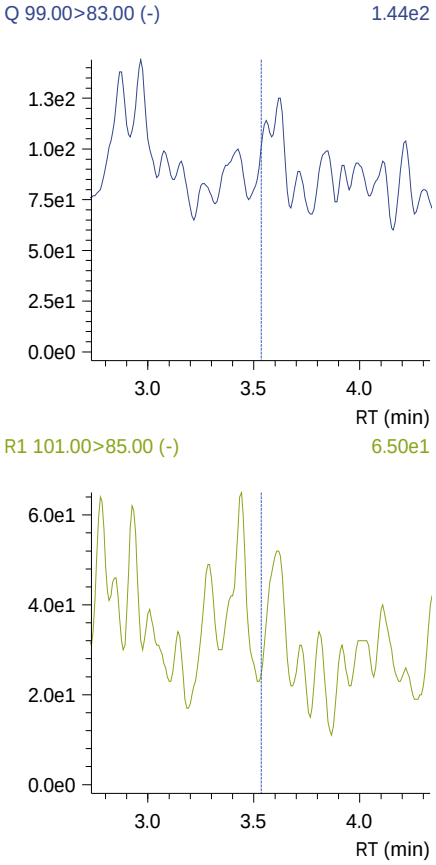
IB

Sample ID: IB
Date Acquired: 5/10/2024 2:16:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-001.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	ND(W/B)	----	----	321873	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.501	321873	321873	1.0000	ng/mL	----	----	

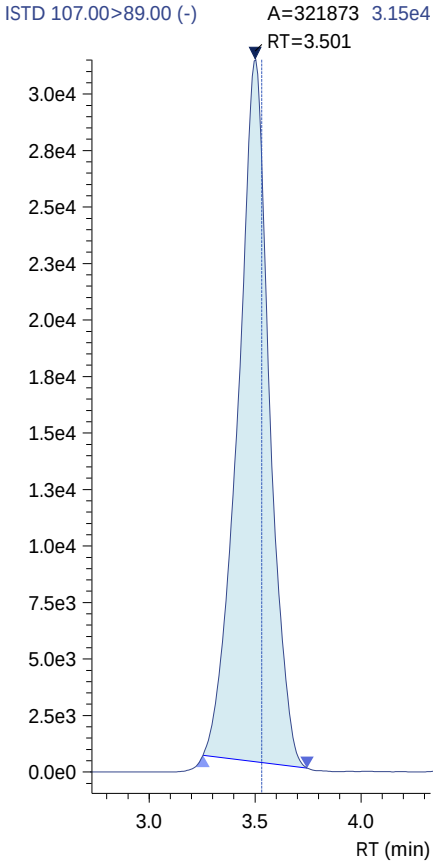
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

IB

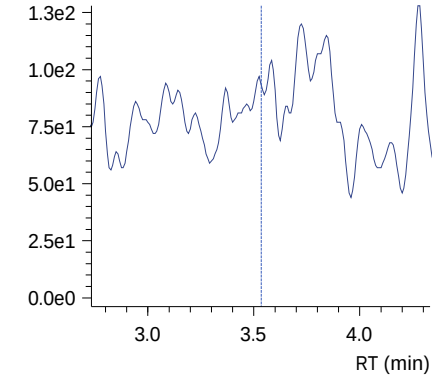
Sample ID: IB
Date Acquired: 5/10/2024 2:21:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	314085	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.510	314085	314085	1.0000	ng/mL	----	----	

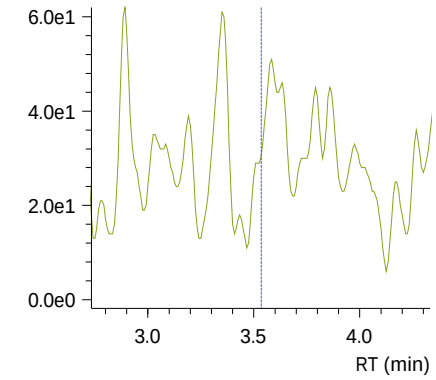
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.28e2



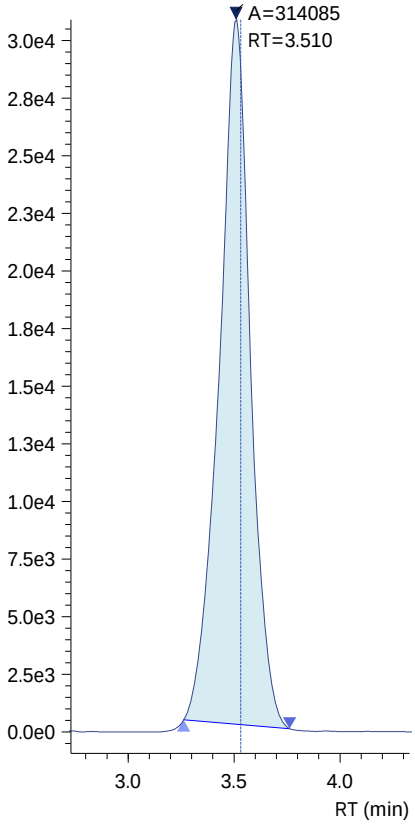
R1 101.00>85.00 (-) 6.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.09e4



Insight Report

Printed at 5/15/2024 3:04:29 PM

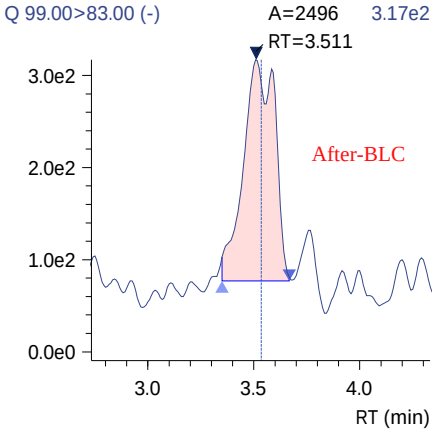
LODV

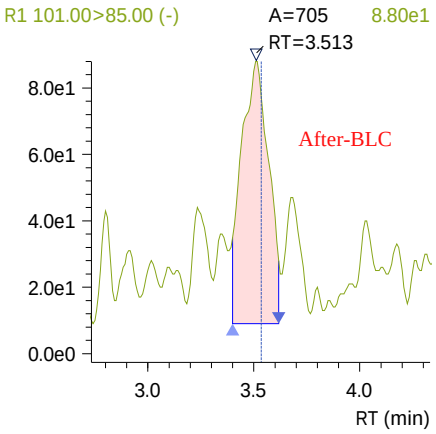
Sample ID: LODV
Date Acquired: 5/10/2024 2:27:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.511	2496	313066	0.0512	ng/mL	101.00 >85.00	28.24	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.506	313066	313066	1.0000	ng/mL	----	----	

Perchlorate

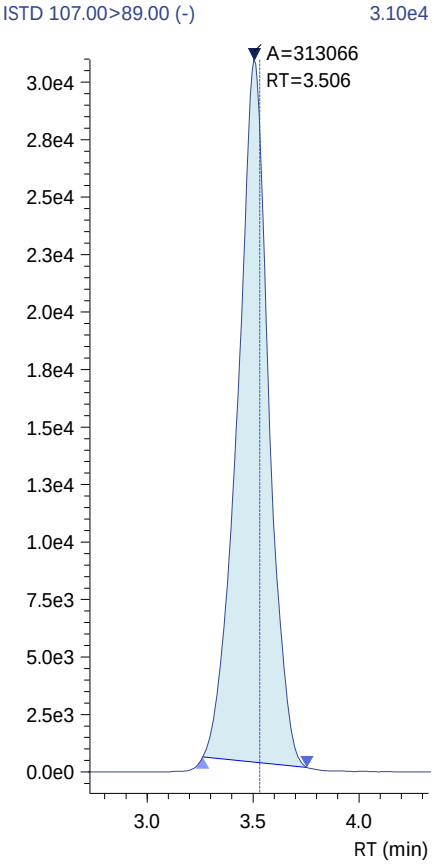
Conc 0.0512
R#1 28.24 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:05:46 PM

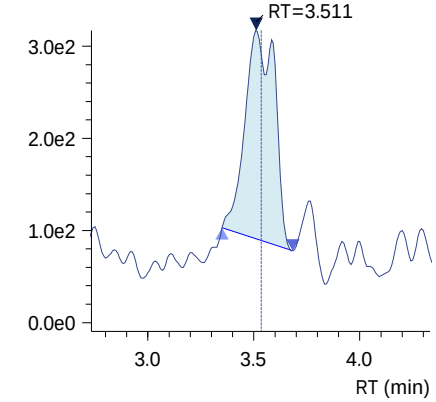
LODV

Sample ID: LODV
Date Acquired: 5/10/2024 2:27:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

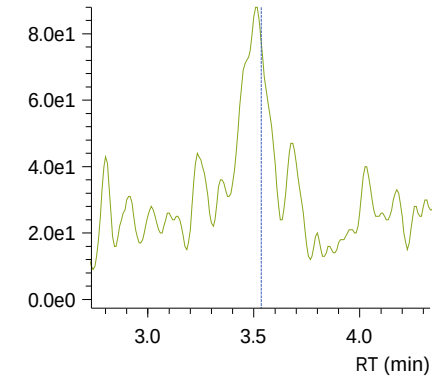
Perchlorate

Conc 0.0457
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2228 3.17e2



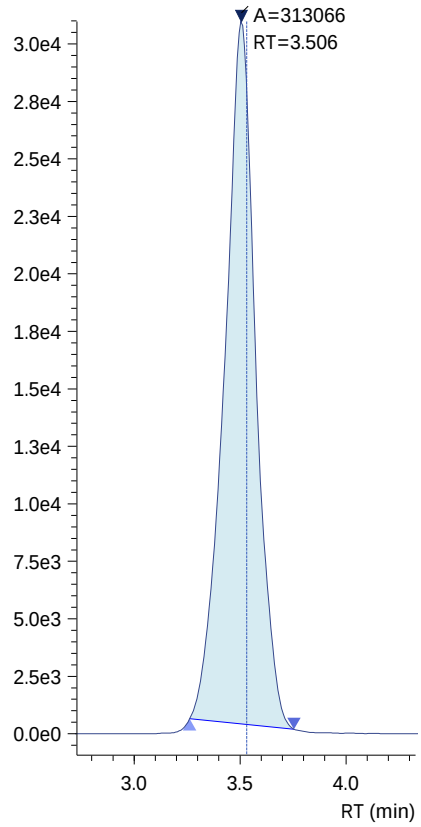
R1 101.00>85.00 (-) 8.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.10e4



Insight Report

Printed at 5/15/2024 3:04:29 PM

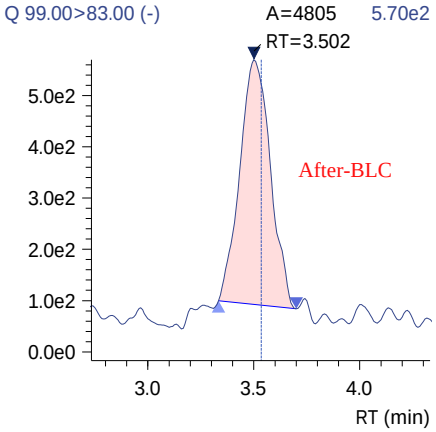
ICS

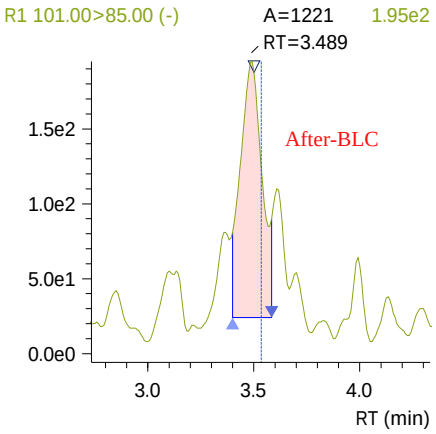
Sample ID: ICS
Date Acquired: 5/10/2024 2:32:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.502	4805	353962	0.0871	ng/mL	101.00 >85.00	25.41	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.505	353962	353962	1.0000	ng/mL	----	----	

Perchlorate

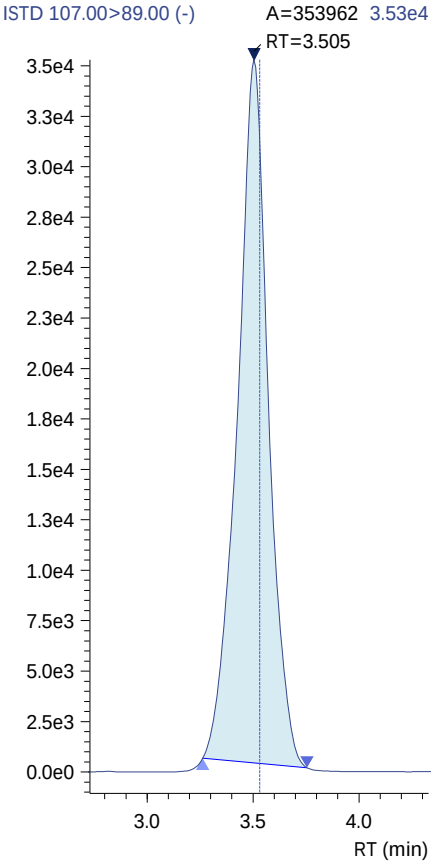
Conc 0.0871
R#1 25.41 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

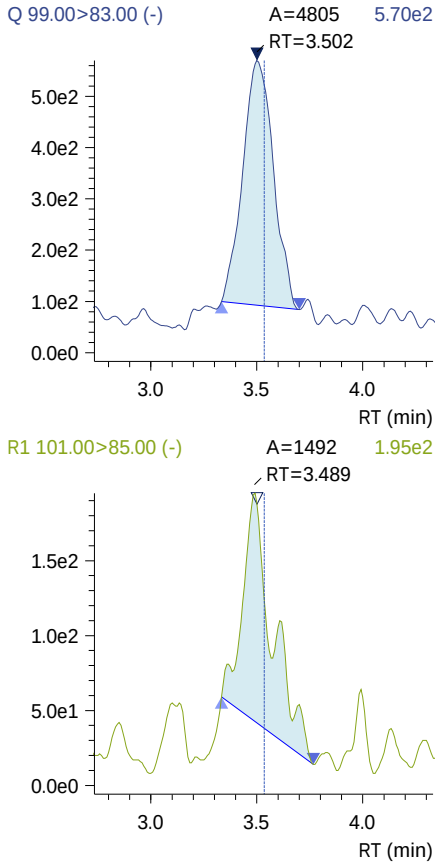
Printed at 5/15/2024 3:05:46 PM

ICS

Sample ID: ICS
Date Acquired: 5/10/2024 2:32:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

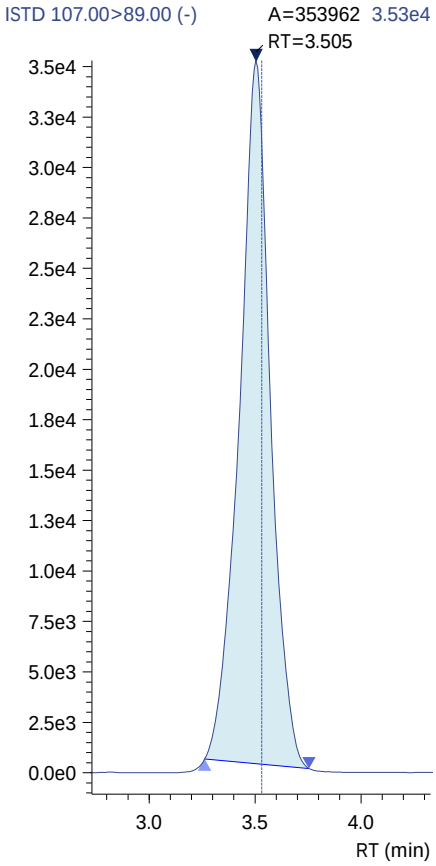
Perchlorate

Conc 0.0871
R#1 31.06 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

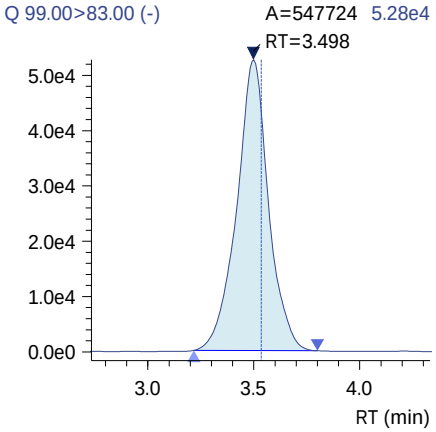
CCV

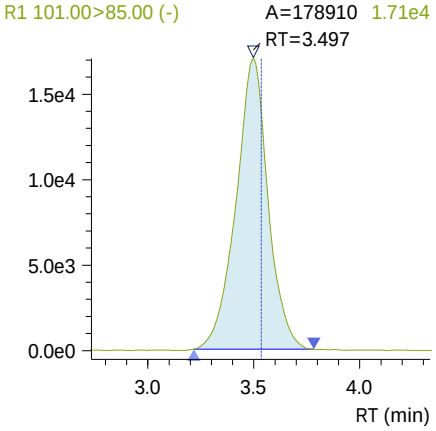
Sample ID: CCV
Date Acquired: 5/10/2024 4:53:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.498	547724	332548	10.5 714	ng/mL	101.00 >85.00	32.66	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.498	332548	332548	1.0000	ng/mL	----	----	

Perchlorate

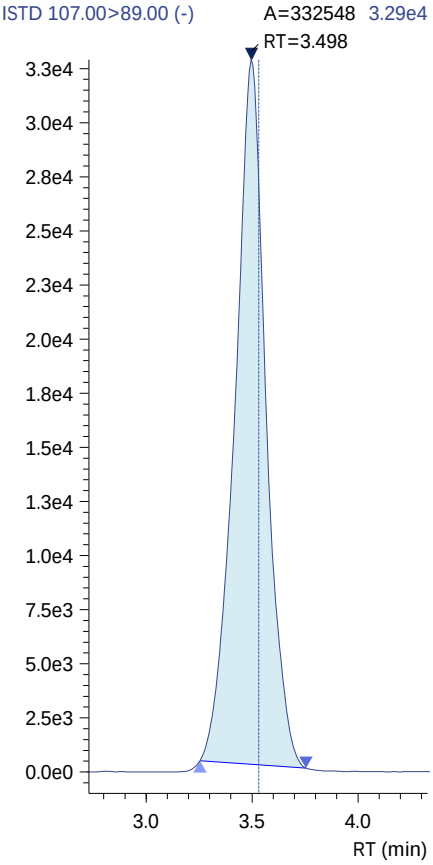
Conc 10.5714
R#1 32.66 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

IB

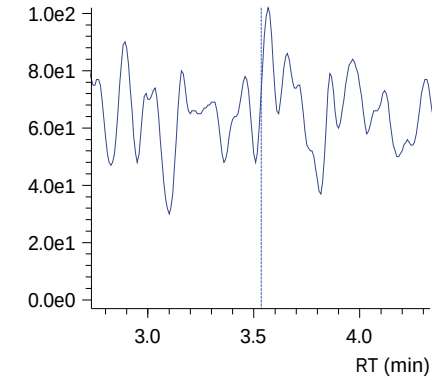
Sample ID: IB
Date Acquired: 5/10/2024 4:59:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	316776	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.495	316776	316776	1.0000	ng/mL	----	----	

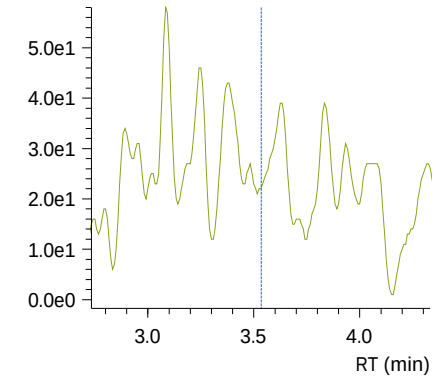
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.02e2



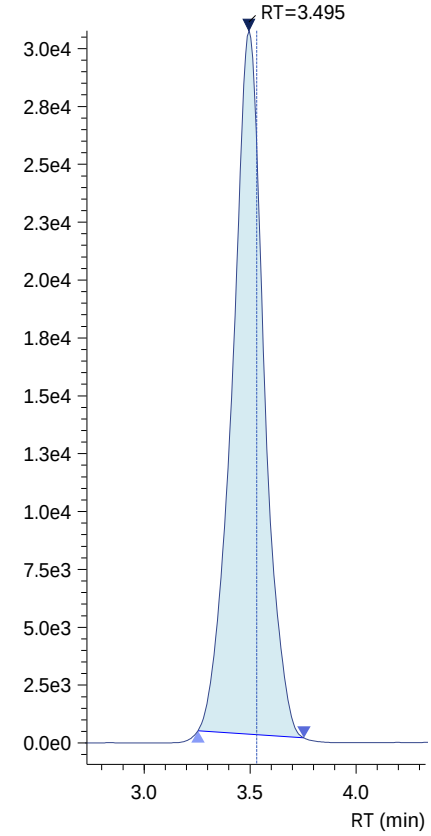
R1 101.00>85.00 (-) 5.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=316776 3.08e4
RT=3.495



Insight Report

Printed at 5/15/2024 3:04:29 PM

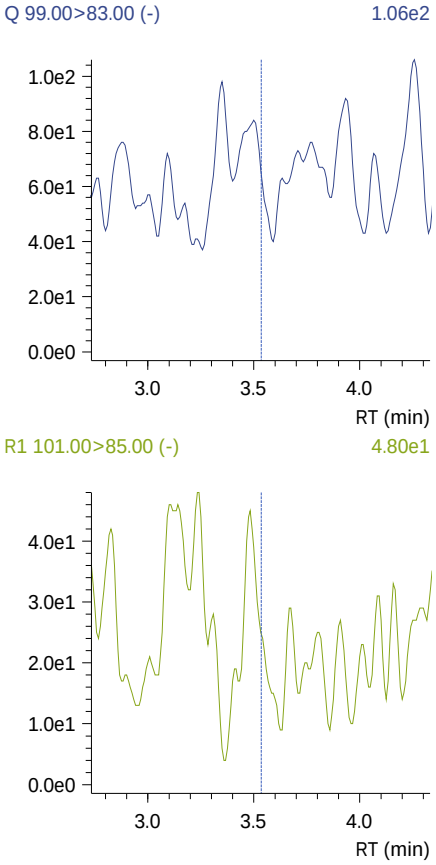
EQ2400230-01MB

Sample ID: EQ2400230-01
Date Acquired: 5/10/2024 5:15:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-021.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	323722	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.497	323722	323722	1.0000	ng/mL	----	----	

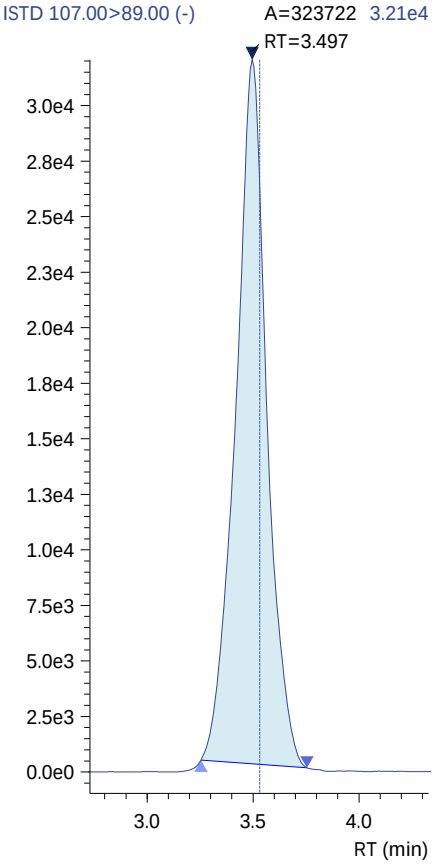
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

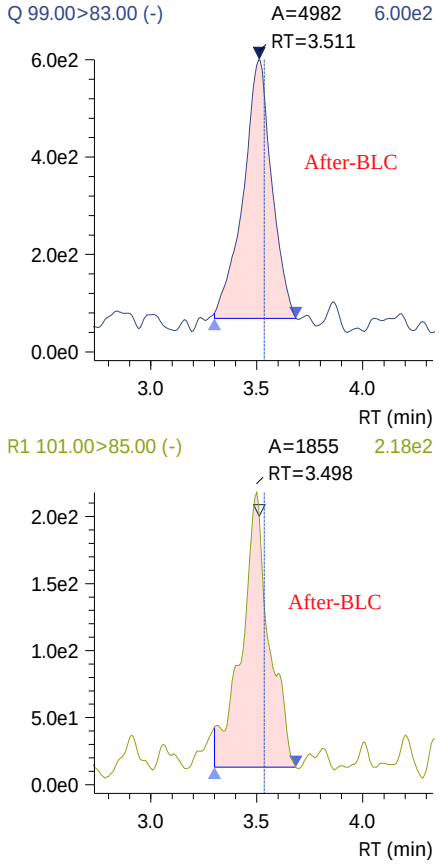
EQ2400230-02LCS

Sample ID: EQ2400230-02
Date Acquired: 5/10/2024 5:21:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-022.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.511	4982	325606	0.0982	ng/mL	101.00 >85.00	37.24	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.497	325606	325606	1.0000	ng/mL	----	----	

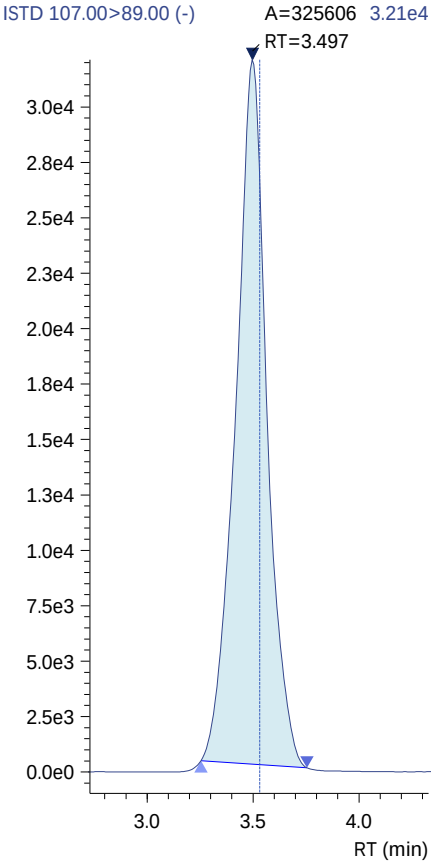
Perchlorate

Conc 0.0982
R#1 37.24 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

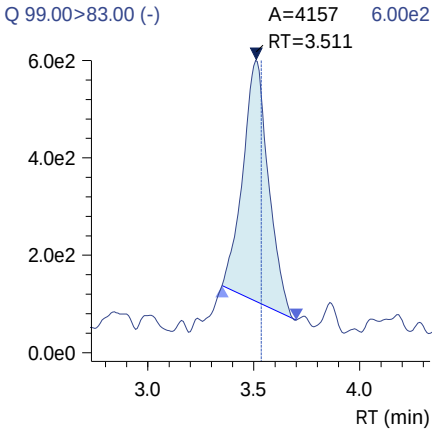
Printed at 5/15/2024 3:05:46 PM

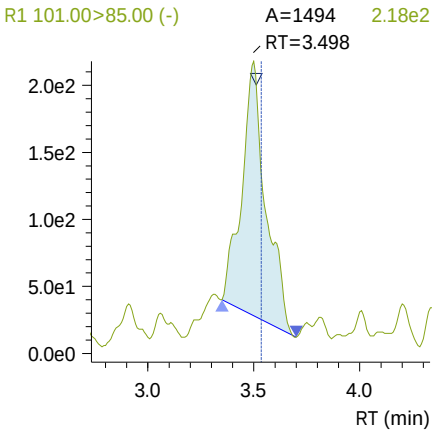
EQ2400230-02LCS

Sample ID: EQ2400230-02
Date Acquired: 5/10/2024 5:21:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-022.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 3

Perchlorate

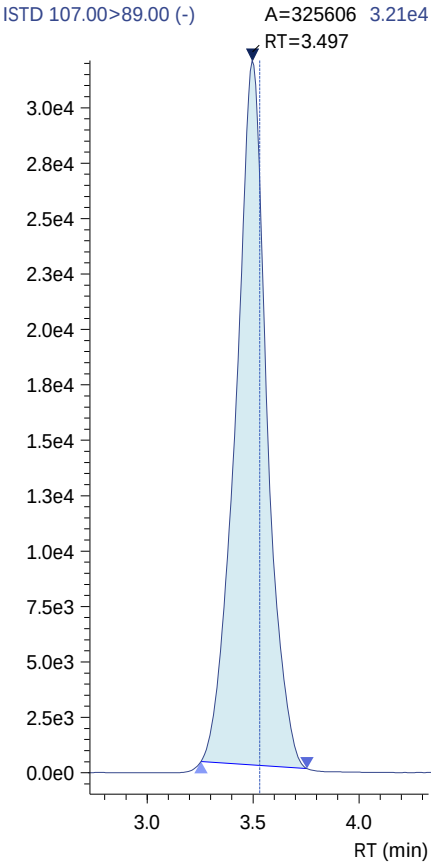
Conc 0.0819
R#1 35.93 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

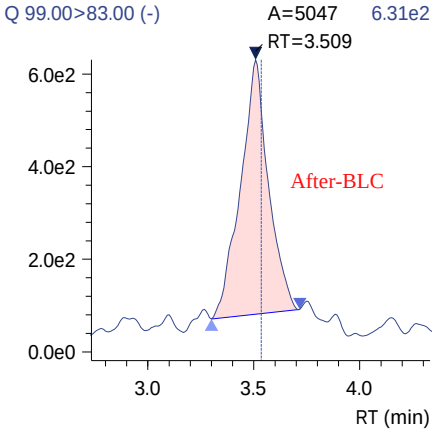
EQ2400230-04ICS

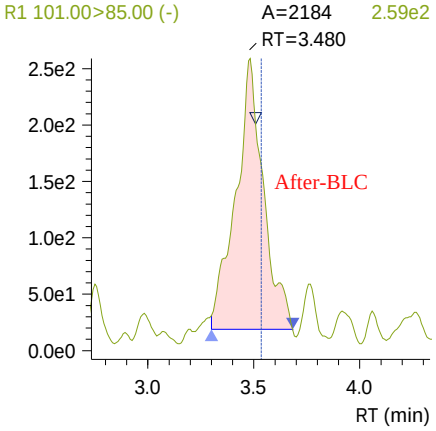
Sample ID: EQ2400230-04
Date Acquired: 5/10/2024 5:32:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-024.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.509	5047	325867	0.0994	ng/mL	101.00 >85.00	43.27	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.496	325867	325867	1.0000	ng/mL	----	----	

Perchlorate

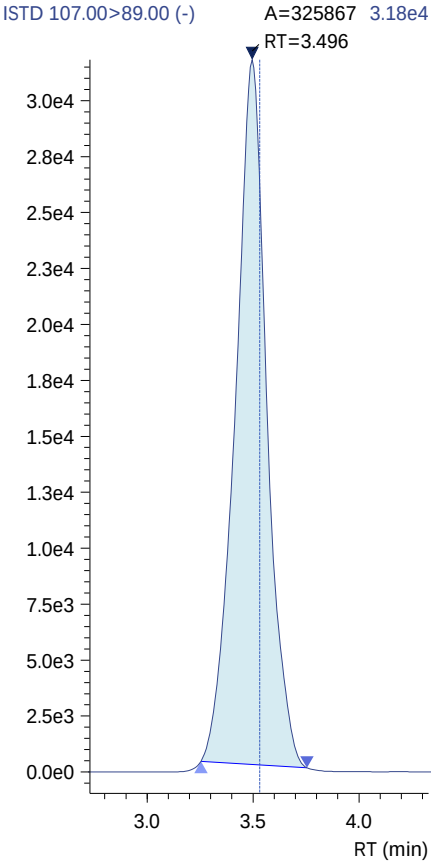
Conc 0.0994
R#1 43.27 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:05:46 PM

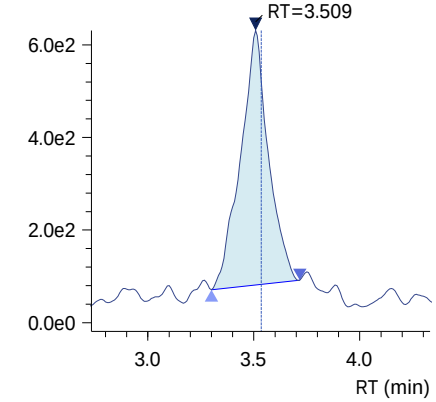
EQ2400230-04ICS

Sample ID: EQ2400230-04
Date Acquired: 5/10/2024 5:32:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-024.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 3

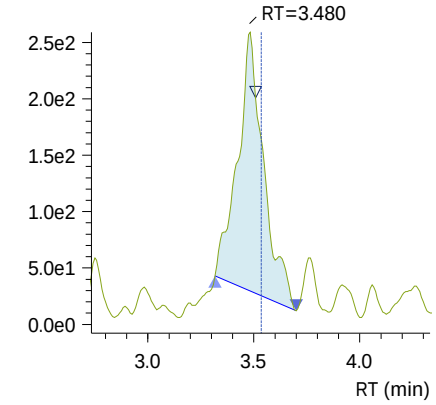
Perchlorate

Conc 0.0994
R#1 38.96 (34.10)

Q 99.00>83.00 (-) A=5047 6.31e2 RT=3.509



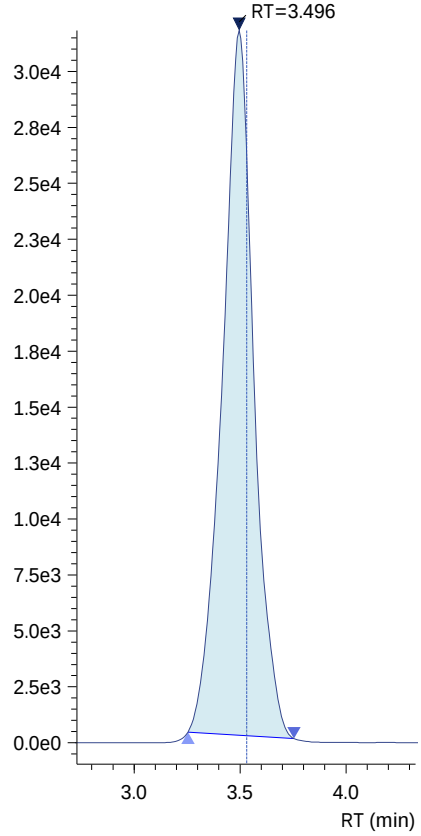
R1 101.00>85.00 (-) A=1966 2.59e2 RT=3.480



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=325867 3.18e4 RT=3.496



Insight Report

Printed at 5/15/2024 3:04:29 PM

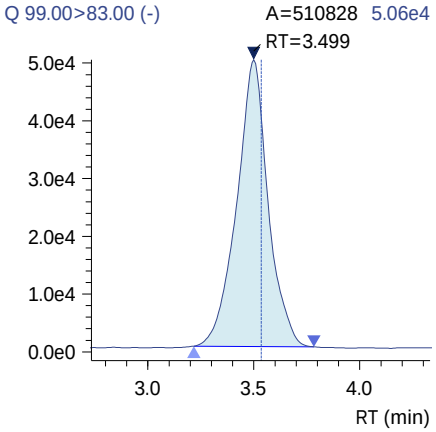
CCV

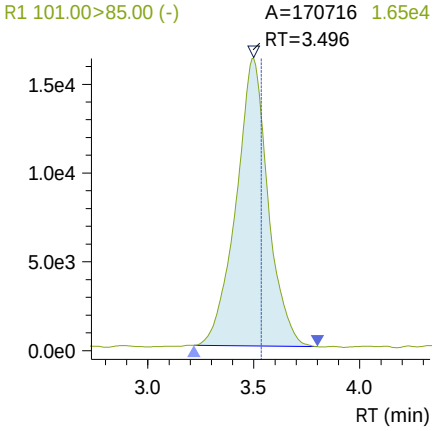
Sample ID: CCV
Date Acquired: 5/10/2024 5:54:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.499	510828	307886	10.6 490	ng/mL	101.00 >85.00	33.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.495	307886	307886	1.0000	ng/mL	----	----	

Perchlorate

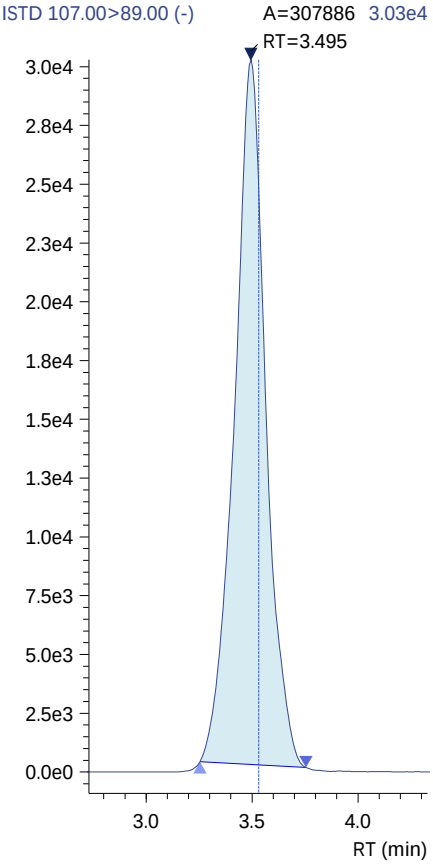
Conc 10.6490
R#1 33.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

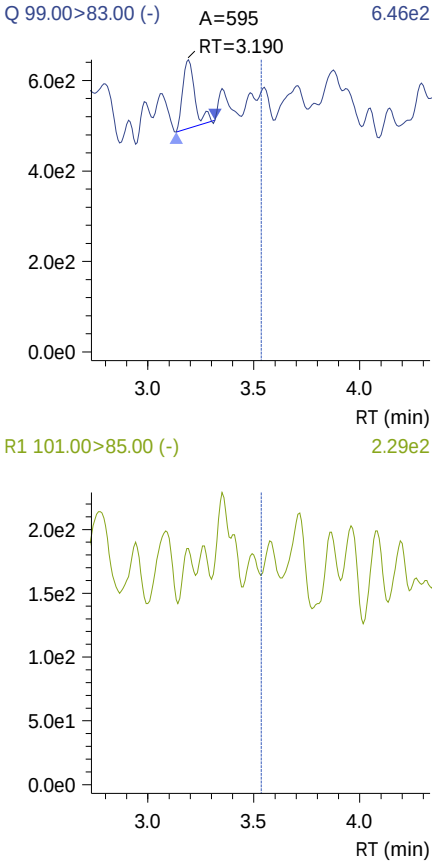
IB

Sample ID: IB
Date Acquired: 5/10/2024 6:00:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-029.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	----	----	297058	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.495	297058	297058	1.0000	ng/mL	----	----	

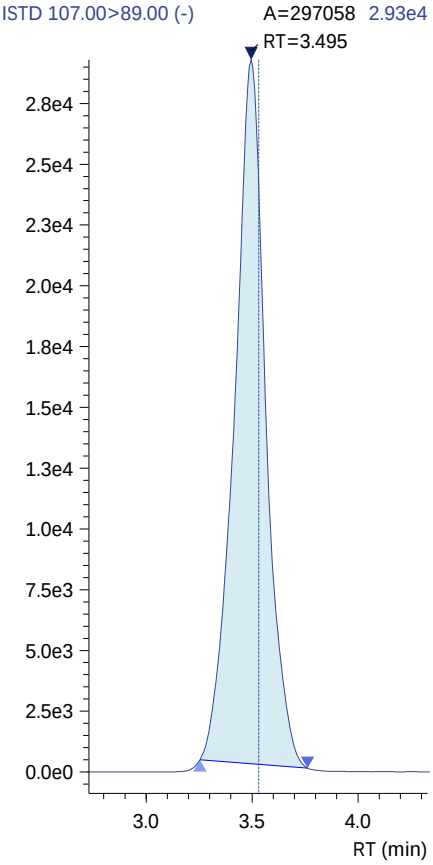
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

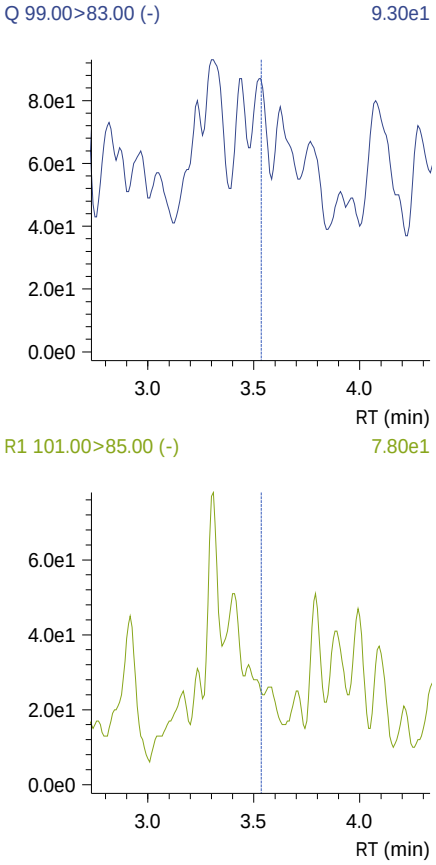
IB

Sample ID: IB
Date Acquired: 5/14/2024 2:54:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-002.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)	----	----	310385	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.494	310385	310385	1.0000	ng/mL	----	----	

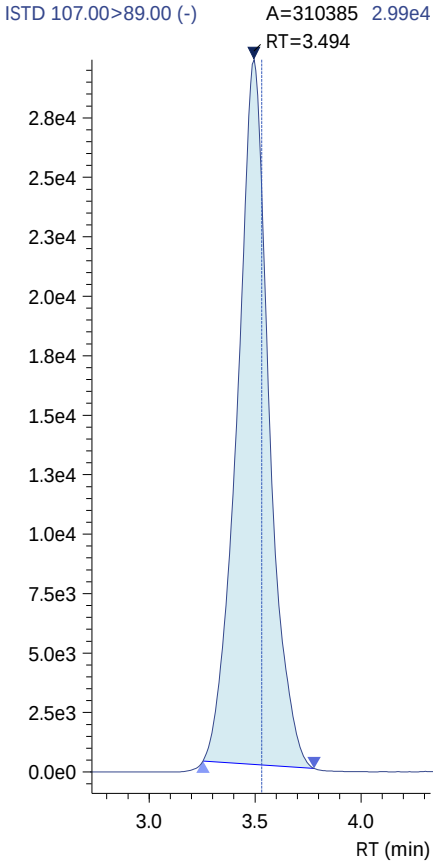
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 9:16:39 AM

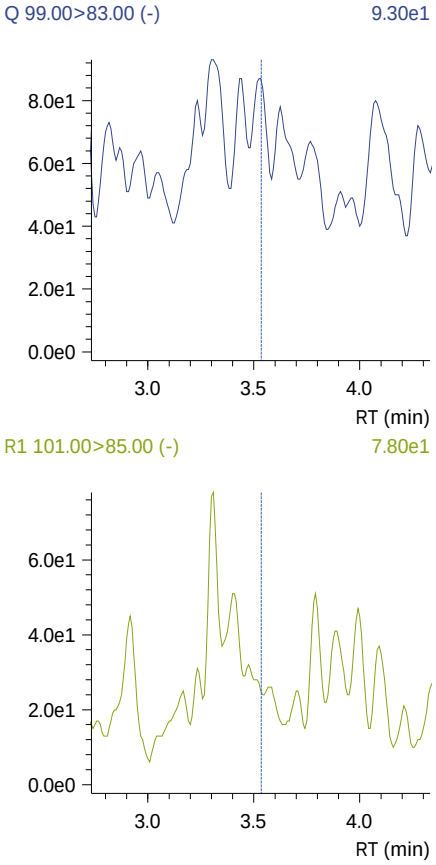
IB

Sample ID: IB
Date Acquired: 5/14/2024 2:54:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-002.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)	----	----	310385	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.494	310385	310385	1.0000	ng/mL	----	----	

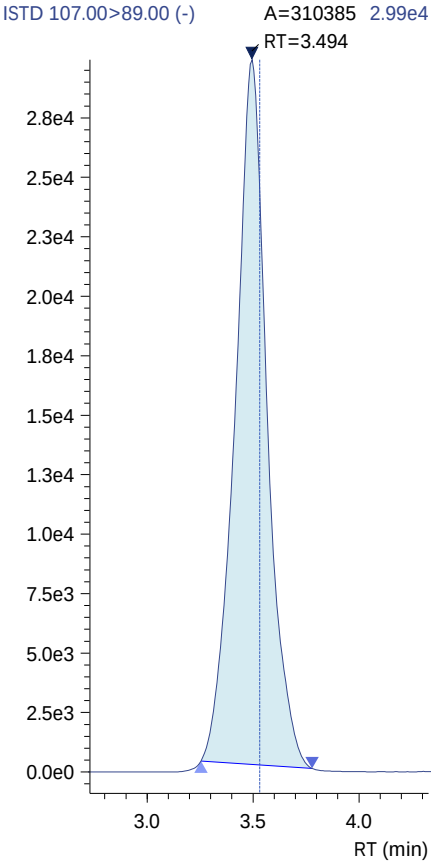
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

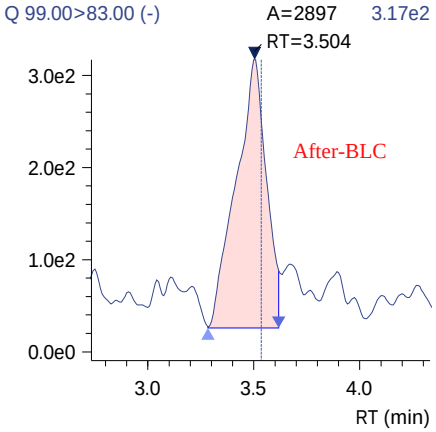
LODV

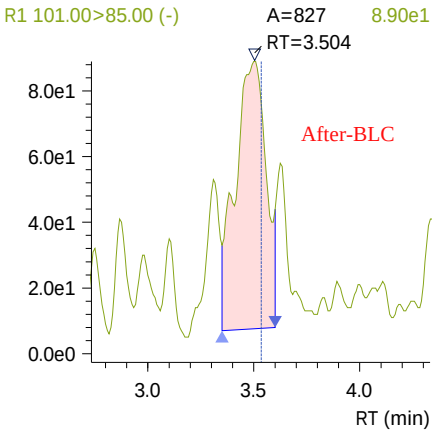
Sample ID: LODV
Date Acquired: 5/14/2024 3:00:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.504	2897	310710	0.0598	ng/mL	101.00 >85.00	28.56	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.491	310710	310710	1.0000	ng/mL	----	----	

Perchlorate

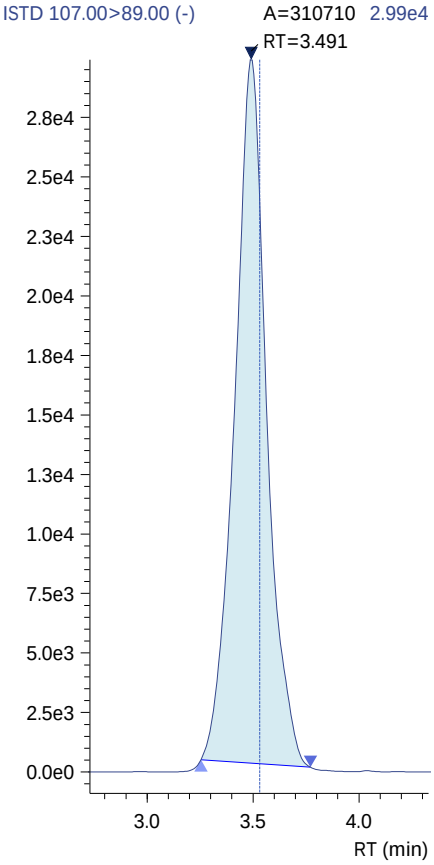
Conc 0.0598
R#1 28.56 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

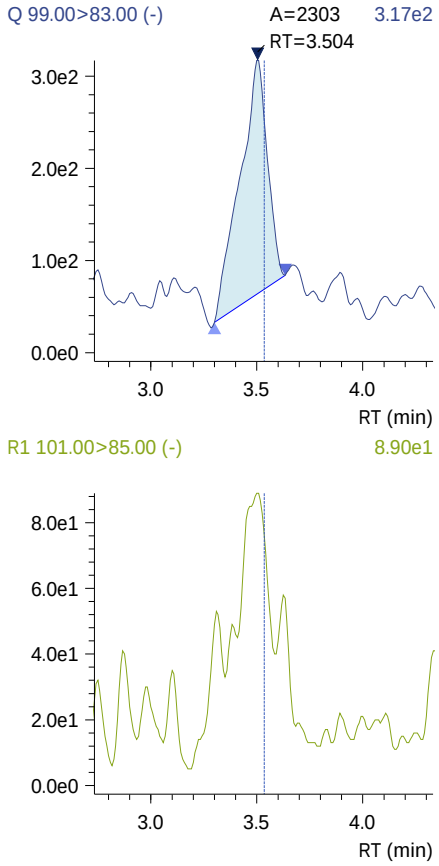
Printed at 5/15/2024 3:03:03 PM

LODV

Sample ID: LODV
Date Acquired: 5/14/2024 3:00:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

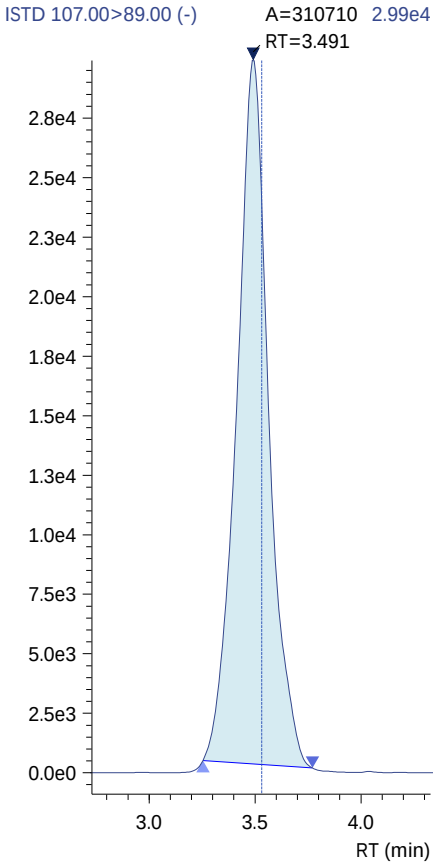
Perchlorate

Conc 0.0476
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

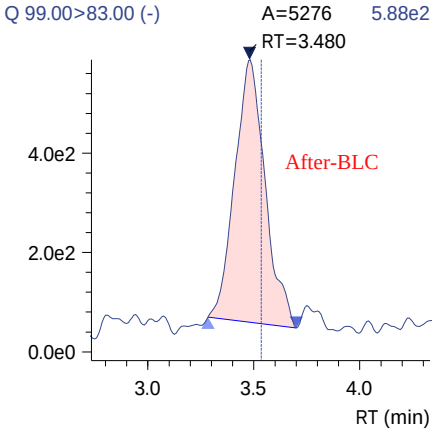
ICS

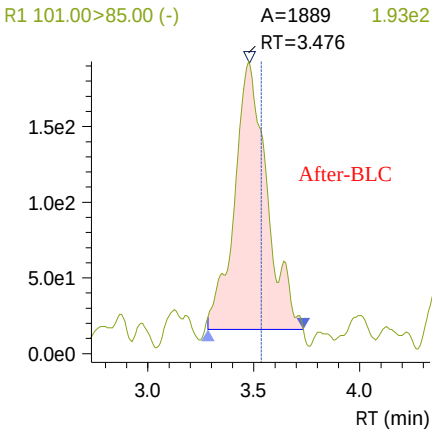
Sample ID: ICS
Date Acquired: 5/14/2024 3:05:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.480	5276	349466	0.0969	ng/mL	101.00 >85.00	35.79	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.491	349466	349466	1.0000	ng/mL	----	----	

Perchlorate

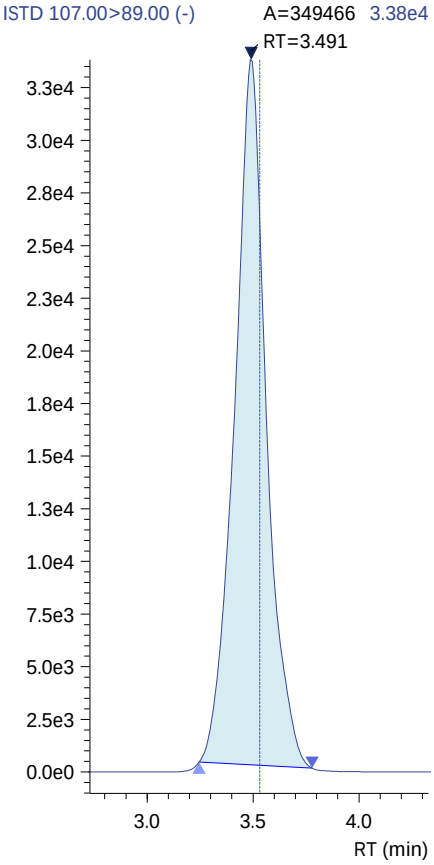
Conc 0.0969
R#1 35.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

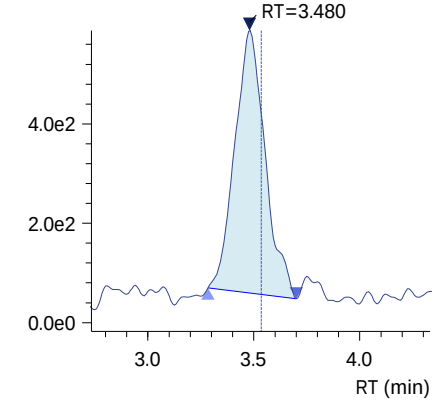
ICS

Sample ID: ICS
Date Acquired: 5/14/2024 3:05:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

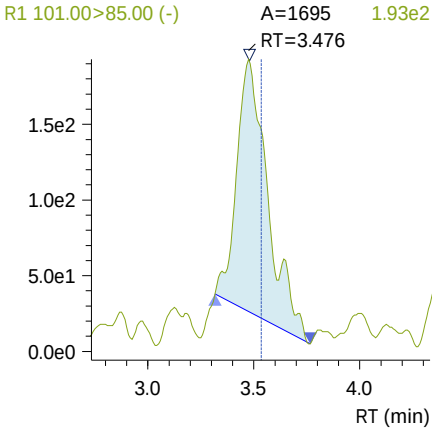
Perchlorate

Conc 0.0969
R#1 32.12 (34.10)

Q 99.00>83.00 (-) A=5276 5.88e2



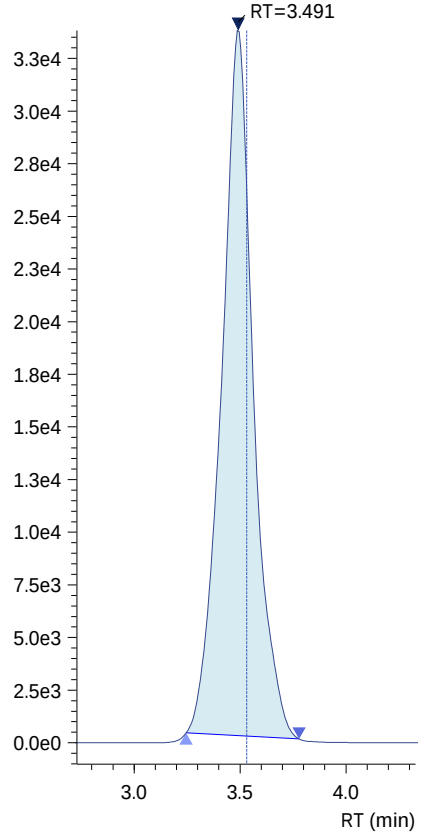
R1 101.00>85.00 (-) A=1695 1.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=349466 3.38e4



Insight Report

Printed at 5/15/2024 3:03:03 PM

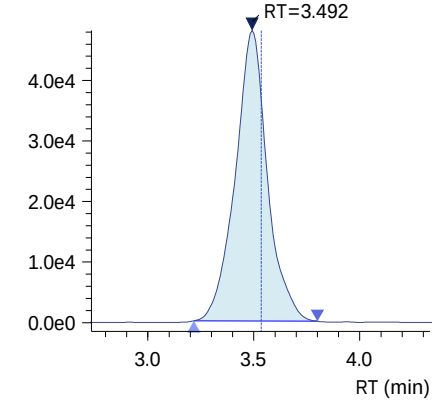
CCV

Sample ID: CCV
Date Acquired: 5/14/2024 3:11:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

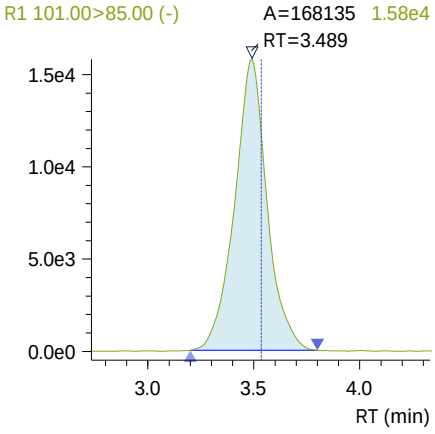
Perchlorate

Conc 10.5319
R#1 33.23 (34.10)

Q 99.00>83.00 (-) A=505926 4.82e4 RT=3.492



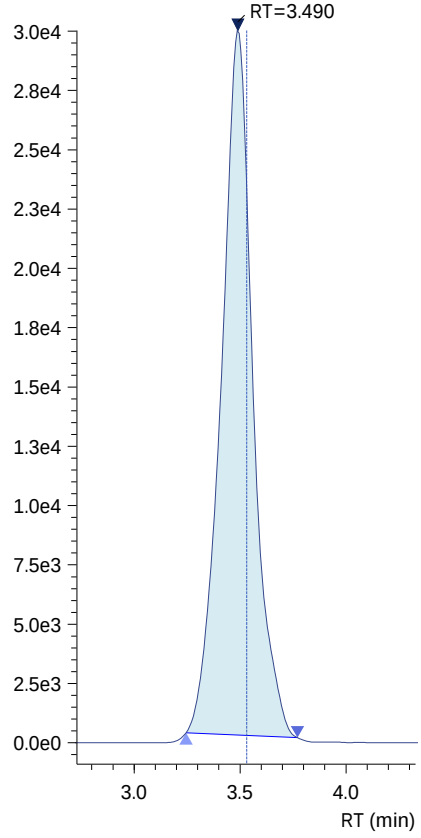
R1 101.00>85.00 (-) A=168135 1.58e4 RT=3.489



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=308321 3.00e4 RT=3.490



Insight Report

Printed at 5/15/2024 2:23:35 PM

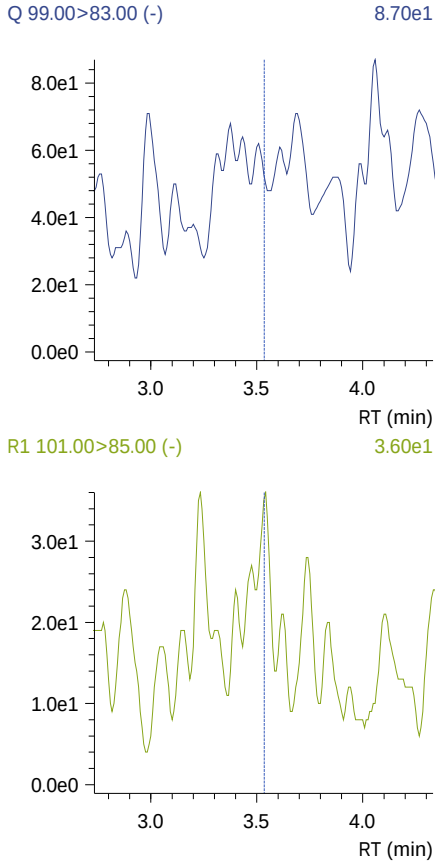
IB

Sample ID: IB
Date Acquired: 5/14/2024 3:16:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-006.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)	----	----	284958	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.488	284958	284958	1.0000	ng/mL	----	----	

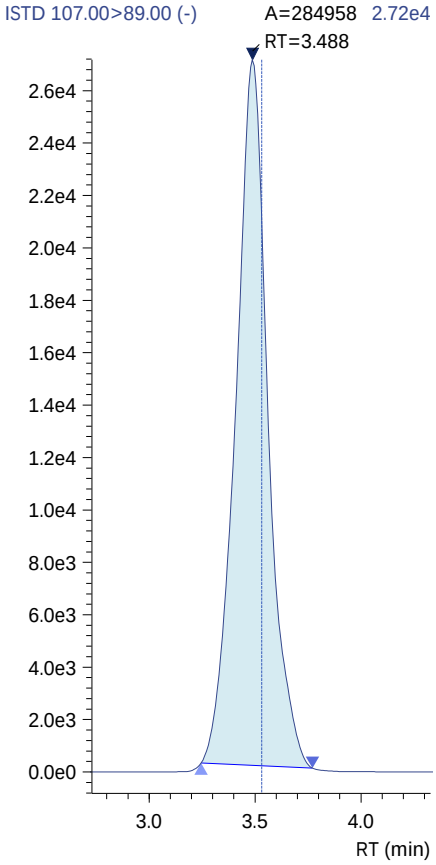
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

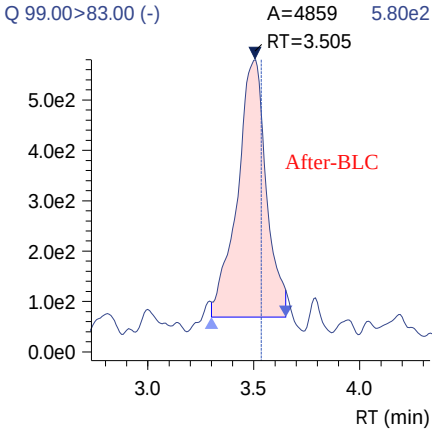
EQ2400230-03DLCS

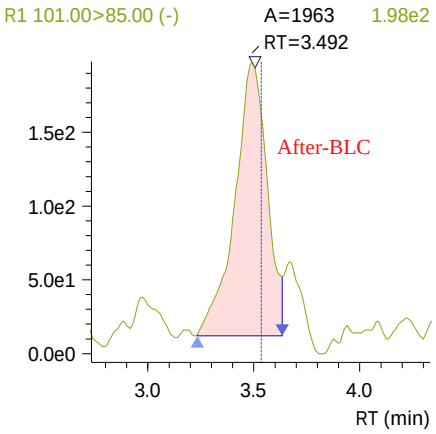
Sample ID: EQ2400230-03
Date Acquired: 5/14/2024 3:33:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-009.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.505	4859	282861	0.1102	ng/mL	101.00 >85.00	40.41	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.487	282861	282861	1.0000	ng/mL	----	----	

Perchlorate

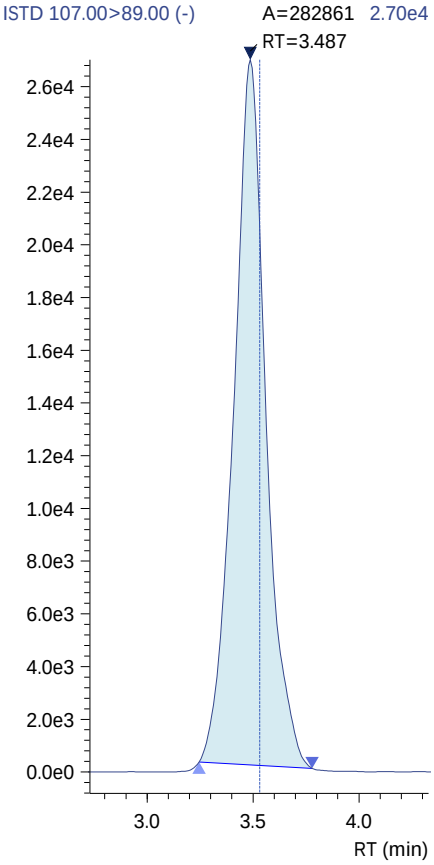
Conc 0.1102
R#1 40.41 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

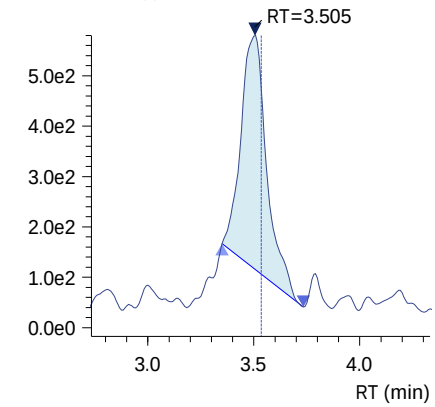
EQ2400230-03DLCS

Sample ID: EQ2400230-03
Date Acquired: 5/14/2024 3:33:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-009.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 3

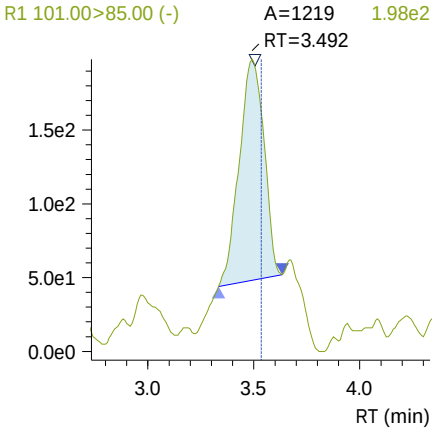
Perchlorate

Conc 0.0884
R#1 31.29 (34.10)

Q 99.00>83.00 (-) A=3896 5.80e2



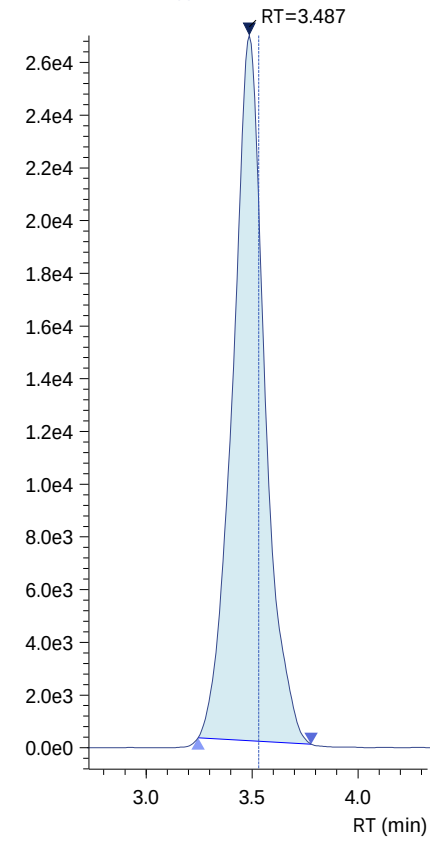
R1 101.00>85.00 (-) A=1219 1.98e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282861 2.70e4



Insight Report

Printed at 5/15/2024 2:23:35 PM

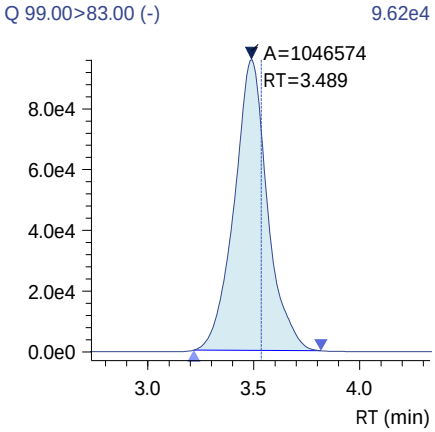
E2400476-001 1000X

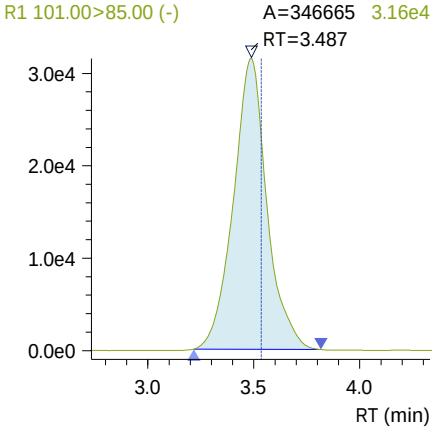
Sample ID: E2400476-001 1000X
Date Acquired: 5/14/2024 3:55:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-013.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.489	10465	279041	24.0	ng/mL	101.00	33.12	23.19
			74		727		>85.00		-43.08
Sodium Perchlorate -18O4_IS	Auto	3.486	279041	279041	1.0000	ng/mL	----	----	

Perchlorate

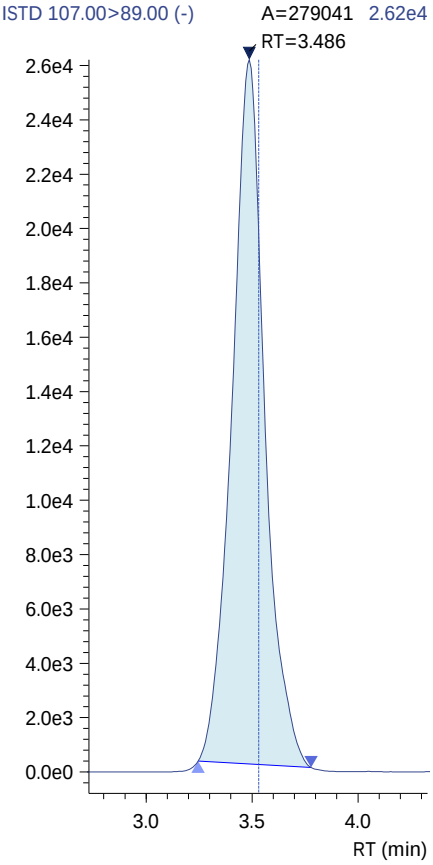
Conc 24.0727
R#1 33.12 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

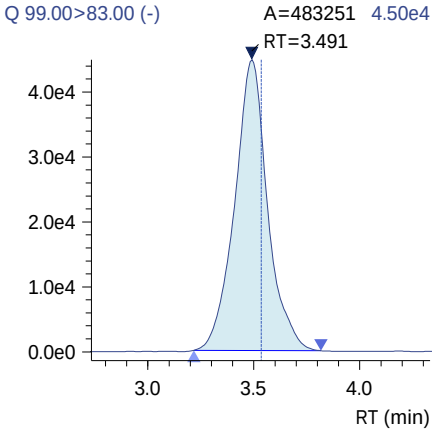
CCV

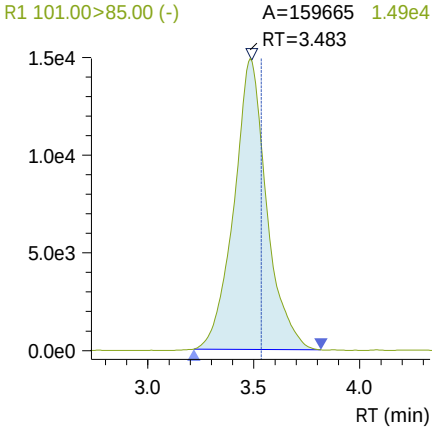
Sample ID: CCV
Date Acquired: 5/14/2024 4:01:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.491	483251	287998	10.7 698	ng/mL	101.00 >85.00	33.04	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.486	287998	287998	1.0000	ng/mL	----	----	

Perchlorate

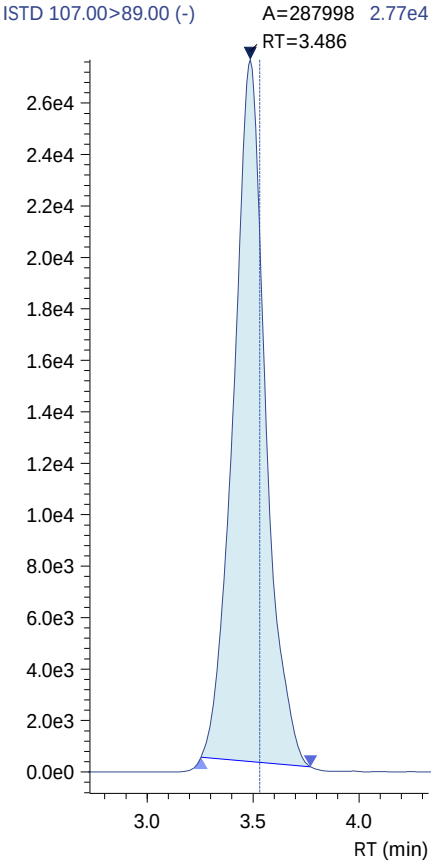
Conc 10.7698
R#1 33.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

IB

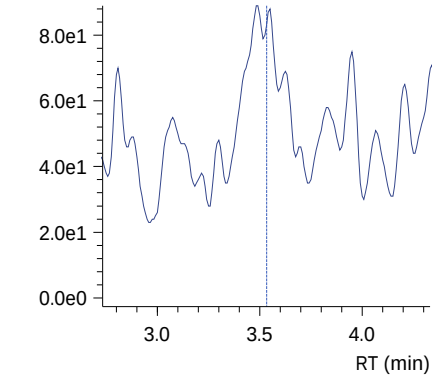
Sample ID: IB
Date Acquired: 5/14/2024 4:06:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-015.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	274692	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.485	274692	274692	1.0000	ng/mL	----	----	

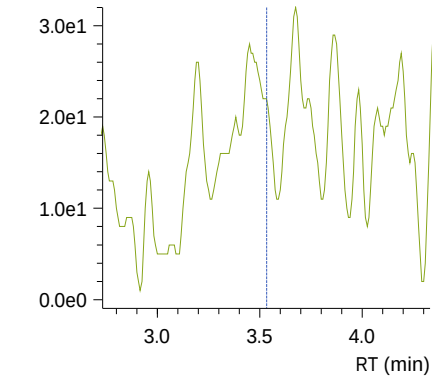
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 8.90e1



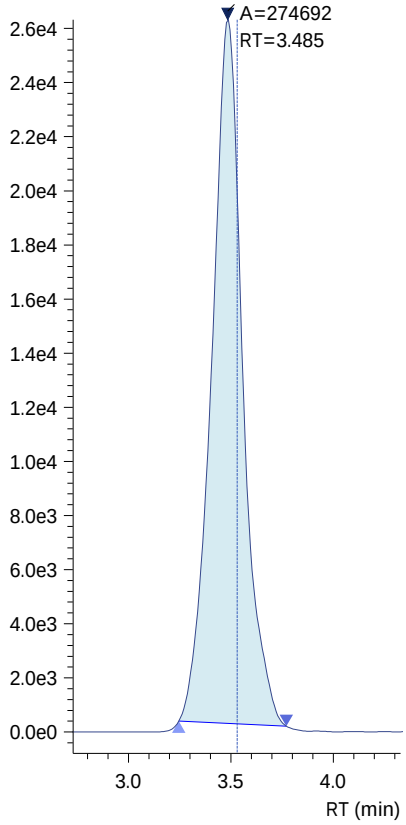
R1 101.00>85.00 (-) 3.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.63e4



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WorkOrder: HS24050531

Longhorn GW Treatment Plant Monthly Effluent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

01-Jul-2024

WorkOrder: HS24050531

ALS Environmental
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www.alsglobal.com

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ALS WO# HS24050531

HS24050531 Longhorn GW Treatment Plant Monthly Effluent Samples Final

ALS WO# HS24050531

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May 24, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24050531**

Laboratory Results for: **Longhorn GW Treatment Plant Monthly Effluent Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on May 09, 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: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Work Order: HS24050531

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050531-01	LH18/24-SP650_050824	Water		08-May-2024 13:00	09-May-2024 10:20	☐
HS24050531-02	LH18/24-SP650_050824_AIX	Water		08-May-2024 13:00	09-May-2024 10:20	☐
HS24050531-03	Trip Blank	Water	CG-111123-474	08-May-2024 00:00	09-May-2024 10:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Work Order: HS24050531

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: 211763

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R466602

Sample ID: VSTD050

• 2,2-Dichloropropane failed outside QC control limits high. Samples are ND.

Metals by Method SW6020A

Batch ID: 211834

Sample ID: HS24050529-01MS

• MS and MSD are for an unrelated sample

WetChemistry by Method SW7196

Batch ID: R466388

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531
Sample ID: LH18/24-SP650_050824 Lab ID:HS24050531-01
Collection Date: 08-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	13-May-2024 19:23
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	13-May-2024 19:23
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	13-May-2024 19:23
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	13-May-2024 19:23
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	13-May-2024 19:23
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	13-May-2024 19:23
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 19:23
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531
Sample ID: LH18/24-SP650_050824 Lab ID:HS24050531-01
Collection Date: 08-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	13-May-2024 19:23
cis-1,2-Dichloroethene	**3.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	13-May-2024 19:23
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	13-May-2024 19:23
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	13-May-2024 19:23
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	13-May-2024 19:23
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 19:23
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Trichloroethene	**0.72**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	13-May-2024 19:23
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 19:23
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 19:23
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*13-May-2024 19:23*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*13-May-2024 19:23*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*13-May-2024 19:23*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*13-May-2024 19:23*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 10-May-2024		Analyst: MBG
1,4-Dioxane	**1.2**	a	**0.10**	**0.040**	**0.10**	**ug/L**	10	17-May-2024 12:51
Surr: 2-Fluorobiphenyl	*88.3*			**0**	*40-140*	*%REC*	*10*	*17-May-2024 12:51*
Surr: 4-Terphenyl-d14	*89.9*			**0**	*40-140*	*%REC*	*10*	*17-May-2024 12:51*
Surr: Nitrobenzene-d5	*110*			**0**	*40-140*	*%REC*	*10*	*17-May-2024 12:51*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-May-2024		Analyst: JC
Barium	**0.215**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	15-May-2024 12:27
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	15-May-2024 12:27
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	15-May-2024 12:27
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	15-May-2024 12:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531

Sample ID: LH18/24-SP650_050824 Lab ID:HS24050531-01

Collection Date: 08-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
HEXAVALENT CHROMIUM BY SW7196A		**Method:SW7196**						Analyst: HB
Chromium, Hexavalent	0.0100	U	0.00600	0.0100	0.0100	mg/L	1	09-May-2024 12:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531

Sample ID: LH18/24-SP650_050824_AIX Lab ID:HS24050531-02

Collection Date: 08-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	20-May-2024 14:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531

Sample ID: Trip Blank Lab ID:HS24050531-03

Collection Date: 08-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	13-May-2024 17:56
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	13-May-2024 17:56
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	13-May-2024 17:56
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	13-May-2024 17:56
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	13-May-2024 17:56
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	13-May-2024 17:56
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	13-May-2024 17:56
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Monthly Effluent Samples WorkOrder:HS24050531
Sample ID: Trip Blank Lab ID:HS24050531-03
Collection Date: 08-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	13-May-2024 17:56
cis-1,2-Dichloroethene	**1.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	13-May-2024 17:56
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	13-May-2024 17:56
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	13-May-2024 17:56
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	13-May-2024 17:56
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	13-May-2024 17:56
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	13-May-2024 17:56
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Trichlorofluoromethane	**2.5**		**0.30**	**1.0**	**1.0**	**ug/L**	1	13-May-2024 17:56
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	13-May-2024 17:56
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*13-May-2024 17:56*
Surr: 4-Bromofluorobenzene	*105*			**0**	*85-114*	*%REC*	*1*	*13-May-2024 17:56*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*13-May-2024 17:56*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*13-May-2024 17:56*

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: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Batch ID: 211763 **Start Date:** 10 May 2024 10:22 **End Date:** 10 May 2024 10:22
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24050531-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 211834 **Start Date:** 13 May 2024 10:00 **End Date:** 13 May 2024 10:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24050531-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 211763 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24050531-01	LH18/24-SP650_050824	08 May 2024 13:00		10 May 2024 10:22	17 May 2024 12:51	10
Batch ID: 211834 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24050531-01	LH18/24-SP650_050824	08 May 2024 13:00		13 May 2024 10:00	15 May 2024 12:27	1
Batch ID: R466388 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SW7196A				**Matrix:** Water	
HS24050531-01	LH18/24-SP650_050824	08 May 2024 13:00			09 May 2024 12:10	1
Batch ID: R466602 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24050531-01	LH18/24-SP650_050824	08 May 2024 13:00			13 May 2024 19:23	1
HS24050531-03	Trip Blank	08 May 2024 00:00			13 May 2024 17:56	1
Batch ID: R467167 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24050531-02	LH18/24-SP650_050824_AIX	08 May 2024 13:00			20 May 2024 14:22	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: 211834 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-211834** Units: **mg/L** Analysis Date: **15-May-2024 12:14**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010772** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.00250	0.00500								U
Lead	0.00125	0.00500								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U

LCS Sample ID: **LCS-211834** Units: **mg/L** Analysis Date: **15-May-2024 12:16**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010773** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.0466	0.00500	0.05	0	93.2	86 - 114				
Lead	0.04772	0.00500	0.05	0	95.4	88 - 115				
Selenium	0.04509	0.00500	0.05	0	90.2	80 - 120				
Silver	0.04959	0.00500	0.05	0	99.2	85 - 116				

MS Sample ID: **HS24050529-01MS** Units: **mg/L** Analysis Date: **15-May-2024 12:22**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010776** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.2845	0.00500	0.05	0.2467	75.6	86 - 114				SO
Lead	0.04891	0.00500	0.05	0.000152	97.5	88 - 115				
Selenium	0.04835	0.00500	0.05	0.000492	95.7	80 - 120				
Silver	0.04666	0.00500	0.05	0.000122	93.1	85 - 116				

MSD Sample ID: **HS24050529-01MSD** Units: **mg/L** Analysis Date: **15-May-2024 12:24**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010777** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.2964	0.00500	0.05	0.2467	99.5	86 - 114	0.2845	4.11	20	O
Lead	0.05117	0.00500	0.05	0.000152	102	88 - 115	0.04891	4.53	20	
Selenium	0.04895	0.00500	0.05	0.000492	96.9	80 - 120	0.04835	1.25	20	
Silver	0.04904	0.00500	0.05	0.000122	97.8	85 - 116	0.04666	4.97	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: 211834 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24050529-01PDS** Units: **mg/L** Analysis Date: **15-May-2024 12:26**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010778** PrepDate: **13-May-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.3285	0.00500	0.1	0.2467	81.8	80 - 120				
Lead	0.09866	0.00500	0.1	0.000152	98.5	80 - 120				
Selenium	0.09724	0.00500	0.1	0.000492	96.7	80 - 120				
Silver	0.09318	0.00500	0.1	0.000122	93.1	80 - 120				

SD Sample ID: **HS24050529-01SD** Units: **mg/L** Analysis Date: **15-May-2024 12:20**
Client ID: Run ID: **ICPMS06_466763** SeqNo: **8010775** PrepDate: **13-May-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Barium	0.2399	0.0250					0.2467	2.73	10	
Lead	0.00625	0.0250					0	0	10	U
Selenium	0.0125	0.0250					0	0	10	U
Silver	0.00250	0.0250					0	0	10	U

The following samples were analyzed in this batch: HS24050531-01

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: 211763 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-211763** Units: **ug/L** Analysis Date: **16-May-2024 14:40**
Client ID: Run ID: **SV-6_467024** SeqNo: **8015957** PrepDate: **10-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	*0.05672*	*0*	*0.08*	*0*	*70.9*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07263*	*0*	*0.08*	*0*	*90.8*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06812*	*0*	*0.08*	*0*	*85.2*	*40 - 140*				

LCS Sample ID: **LCS-211763** Units: **ug/L** Analysis Date: **16-May-2024 14:57**
Client ID: Run ID: **SV-6_467024** SeqNo: **8015958** PrepDate: **10-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	0.07322	0.030	0.08	0	91.5	40 - 140				
Surr: 2-Fluorobiphenyl	*0.06219*	*0*	*0.08*	*0*	*77.7*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06344*	*0*	*0.08*	*0*	*79.3*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07072*	*0*	*0.08*	*0*	*88.4*	*40 - 140*				

LCSD Sample ID: **LCSD-211763** Units: **ug/L** Analysis Date: **16-May-2024 15:15**
Client ID: Run ID: **SV-6_467024** SeqNo: **8015959** PrepDate: **10-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	0.07025	0.030	0.08	0	87.8	40 - 140	0.07322	4.14	20	
Surr: 2-Fluorobiphenyl	*0.06254*	*0*	*0.08*	*0*	*78.2*	*40 - 140*	*0.06219*	*0.571*	*20*	
Surr: 4-Terphenyl-d14	*0.07197*	*0*	*0.08*	*0*	*90.0*	*40 - 140*	*0.06344*	*12.6*	*20*	
Surr: Nitrobenzene-d5	*0.06239*	*0*	*0.08*	*0*	*78.0*	*40 - 140*	*0.07072*	*12.5*	*20*	

The following samples were analyzed in this batch: HS24050531-01

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ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240513** Units: **ug/L** Analysis Date: **13-May-2024 11:33**
Client ID: Run ID: **VOA9_466602** SeqNo: **8006789** 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	0.9773	2.0								J
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: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240513** Units: **ug/L** Analysis Date: **13-May-2024 11:33**
Client ID: Run ID: **VOA9_466602** SeqNo: **8006789** 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	*57.89*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.55*	*35*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*53.4*	*35*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*54.56*	*35*	*50*	*0*	*109*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240513** Units: **ug/L** Analysis Date: **13-May-2024 10:28**
Client ID: Run ID: **VOA9_466602** SeqNo: **8006788** 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	20.53	1.0	20	0	103	78 - 124				
1,1,1-Trichloroethane	22.42	1.0	20	0	112	74 - 131				
1,1,2,2-Tetrachloroethane	20.67	1.0	20	0	103	71 - 121				
1,1,2-Trichloroethane	20.46	1.0	20	0	102	80 - 119				
1,1-Dichloroethane	21.06	1.0	20	0	105	77 - 125				
1,1-Dichloroethene	20.74	1.0	20	0	104	71 - 131				
1,1-Dichloropropene	20.17	1.0	20	0	101	78 - 125				
1,2,3-Trichlorobenzene	21.1	1.0	20	0	106	69 - 129				
1,2,3-Trichloropropane	20.09	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	21.95	1.0	20	0	110	69 - 130				
1,2,4-Trimethylbenzene	23.31	1.0	20	0	117	76 - 124				
1,2-Dibromo-3-chloropropane	19.1	1.0	20	0	95.5	62 - 128				
1,2-Dibromoethane	20.37	1.0	20	0	102	77 - 121				
1,2-Dichlorobenzene	20.88	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	19.96	1.0	20	0	99.8	73 - 128				
1,2-Dichloropropane	21.59	1.0	20	0	108	78 - 122				
1,3,5-Trimethylbenzene	22.38	1.0	20	0	112	75 - 124				
1,3-Dichlorobenzene	20.51	1.0	20	0	103	80 - 119				
1,3-Dichloropropane	20.93	1.0	20	0	105	80 - 119				
1,4-Dichlorobenzene	21.15	1.0	20	0	106	79 - 118				
2,2-Dichloropropane	24.52	1.0	20	0	123	60 - 139				
2-Butanone	38.12	2.0	40	0	95.3	56 - 143				
2-Chlorotoluene	21.08	1.0	20	0	105	79 - 122				
2-Hexanone	38.3	2.0	40	0	95.7	57 - 139				
4-Chlorotoluene	21.95	1.0	20	0	110	78 - 122				
4-Isopropyltoluene	22.75	1.0	20	0	114	77 - 127				
4-Methyl-2-pentanone	40	2.0	40	0	100.0	67 - 130				
Acetone	33.36	2.0	40	0	83.4	39 - 160				
Benzene	19.81	1.0	20	0	99.1	79 - 120				
Bromobenzene	20.08	1.0	20	0	100	80 - 120				
Bromochloromethane	20.24	1.0	20	0	101	78 - 123				
Bromodichloromethane	21.77	1.0	20	0	109	79 - 125				
Bromoform	19.11	1.0	20	0	95.5	66 - 130				
Bromomethane	20.42	1.0	20	0	102	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240513** Units: **ug/L** Analysis Date: **13-May-2024 10:28**
Client ID: Run ID: **VOA9_466602** SeqNo: **8006788** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.68	2.0	40	0	102	64 - 133				
Carbon tetrachloride	20.96	1.0	20	0	105	72 - 136				
Chlorobenzene	20.27	1.0	20	0	101	82 - 118				
Chloroethane	20.56	1.0	20	0	103	60 - 138				
Chloroform	20.84	1.0	20	0	104	79 - 124				
Chloromethane	19.91	1.0	20	0	99.6	50 - 139				
cis-1,2-Dichloroethene	21.12	1.0	20	0	106	78 - 123				
cis-1,3-Dichloropropene	21.75	1.0	20	0	109	75 - 124				
Dibromochloromethane	19.92	1.0	20	0	99.6	74 - 126				
Dibromomethane	19.17	1.0	20	0	95.8	79 - 123				
Dichlorodifluoromethane	19.39	1.0	20	0	97.0	32 - 152				
Ethylbenzene	21.29	1.0	20	0	106	79 - 121				
Hexachlorobutadiene	21.08	1.0	20	0	105	66 - 134				
Isopropylbenzene	22.34	1.0	20	0	112	72 - 131				
m,p-Xylene	44.17	2.0	40	0	110	80 - 121				
Methylene chloride	18.63	2.0	20	0	93.1	74 - 124				
Naphthalene	20.21	1.0	20	0	101	61 - 128				
n-Butylbenzene	21.58	1.0	20	0	108	75 - 128				
n-Propylbenzene	22.92	1.0	20	0	115	76 - 126				
o-Xylene	21.52	1.0	20	0	108	78 - 122				
sec-Butylbenzene	22.18	1.0	20	0	111	77 - 126				
Styrene	22.54	1.0	20	0	113	78 - 123				
tert-Butylbenzene	22	1.0	20	0	110	78 - 124				
Tetrachloroethene	21.3	1.0	20	0	106	74 - 129				
Toluene	21.41	1.0	20	0	107	80 - 121				
trans-1,2-Dichloroethene	21.12	1.0	20	0	106	75 - 124				
trans-1,3-Dichloropropene	21.81	1.0	20	0	109	73 - 127				
Trichloroethene	21.05	1.0	20	0	105	79 - 123				
Trichlorofluoromethane	20.15	1.0	20	0	101	65 - 141				
Vinyl chloride	20.12	1.0	20	0	101	58 - 137				
Surr: 1,2-Dichloroethane-d4	*56.02*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.44*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*54.29*	*35*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*55.22*	*35*	*50*	*0*	*110*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24041892-02MS** Units: **ug/L** Analysis Date: **13-May-2024 13:02**
Client ID: Run ID: **VOA9_466602** SeqNo: **8007188** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	411	20	400	0	103	78 - 124				
1,1,1-Trichloroethane	460.4	20	400	0	115	74 - 131				
1,1,2,2-Tetrachloroethane	400.9	20	400	0	100	71 - 121				
1,1,2-Trichloroethane	382.5	20	400	0	95.6	80 - 119				
1,1-Dichloroethane	429.3	20	400	0	107	77 - 125				
1,1-Dichloroethene	432.8	20	400	0	108	71 - 131				
1,1-Dichloropropene	425.9	20	400	0	106	78 - 125				
1,2,3-Trichlorobenzene	402.3	20	400	0	101	69 - 129				
1,2,3-Trichloropropane	383.9	20	400	0	96.0	73 - 122				
1,2,4-Trichlorobenzene	407.8	20	400	0	102	69 - 130				
1,2,4-Trimethylbenzene	463.7	20	400	0	116	76 - 124				
1,2-Dibromo-3-chloropropane	369	20	400	0	92.3	62 - 128				
1,2-Dibromoethane	389.7	20	400	0	97.4	77 - 121				
1,2-Dichlorobenzene	414.4	20	400	0	104	80 - 119				
1,2-Dichloroethane	385.9	20	400	0	96.5	73 - 128				
1,2-Dichloropropane	421	20	400	0	105	78 - 122				
1,3,5-Trimethylbenzene	451.9	20	400	0	113	75 - 124				
1,3-Dichlorobenzene	407.6	20	400	0	102	80 - 119				
1,3-Dichloropropane	391.3	20	400	0	97.8	80 - 119				
1,4-Dichlorobenzene	419.8	20	400	0	105	79 - 118				
2,2-Dichloropropane	490.2	20	400	0	123	60 - 139				
2-Butanone	723.5	40	800	0	90.4	56 - 143				
2-Chlorotoluene	425	20	400	0	106	79 - 122				
2-Hexanone	744.2	40	800	0	93.0	57 - 139				
4-Chlorotoluene	435	20	400	0	109	78 - 122				
4-Isopropyltoluene	466.4	20	400	0	117	77 - 127				
4-Methyl-2-pentanone	766.3	40	800	0	95.8	67 - 130				
Acetone	665.9	40	800	0	83.2	39 - 160				
Benzene	400.5	20	400	0	100	79 - 120				
Bromobenzene	390.9	20	400	0	97.7	80 - 120				
Bromochloromethane	405.7	20	400	0	101	78 - 123				
Bromodichloromethane	411.1	20	400	0	103	79 - 125				
Bromoform	372.5	20	400	0	93.1	66 - 130				
Bromomethane	427.7	20	400	0	107	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24041892-02MS** Units: **ug/L** Analysis Date: **13-May-2024 13:02**
Client ID: Run ID: **VOA9_466602** SeqNo: **8007188** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	816.1	40	800	0	102	64 - 133				
Carbon tetrachloride	430	20	400	0	108	72 - 136				
Chlorobenzene	395.6	20	400	0	98.9	82 - 118				
Chloroethane	419	20	400	0	105	60 - 138				
Chloroform	417	20	400	0	104	79 - 124				
Chloromethane	398	20	400	0	99.5	50 - 139				
cis-1,2-Dichloroethene	424.2	20	400	0	106	78 - 123				
cis-1,3-Dichloropropene	408.4	20	400	0	102	75 - 124				
Dibromochloromethane	381.1	20	400	0	95.3	74 - 126				
Dibromomethane	380.1	20	400	0	95.0	79 - 123				
Dichlorodifluoromethane	401.4	20	400	0	100	32 - 152				
Ethylbenzene	431.9	20	400	0	108	79 - 121				
Hexachlorobutadiene	428.1	20	400	0	107	66 - 134				
Isopropylbenzene	467.2	20	400	0	117	72 - 131				
m,p-Xylene	913.5	40	800	0	114	80 - 121				
Methylene chloride	403.2	40	400	0	101	74 - 124				
Naphthalene	374	20	400	0	93.5	61 - 128				
n-Butylbenzene	449.4	20	400	0	112	75 - 128				
n-Propylbenzene	468.5	20	400	0	117	76 - 126				
o-Xylene	439.3	20	400	0	110	78 - 122				
sec-Butylbenzene	459	20	400	0	115	77 - 126				
Styrene	447.1	20	400	0	112	78 - 123				
tert-Butylbenzene	447	20	400	0	112	78 - 124				
Tetrachloroethene	459.6	20	400	0	115	74 - 129				
Toluene	435	20	400	0	109	80 - 121				
trans-1,2-Dichloroethene	434	20	400	0	109	75 - 124				
trans-1,3-Dichloropropene	413.1	20	400	0	103	73 - 127				
Trichloroethene	431.4	20	400	0	108	79 - 123				
Trichlorofluoromethane	442.1	20	400	0	111	65 - 141				
Vinyl chloride	419.9	20	400	0	105	58 - 137				
Surr: 1,2-Dichloroethane-d4	*1102*	*700*	*1000*	*0*	*110*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*1111*	*700*	*1000*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*1078*	*700*	*1000*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*1083*	*700*	*1000*	*0*	*108*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24041892-02MSD** Units: **ug/L** Analysis Date: **13-May-2024 13:23**
Client ID: Run ID: **VOA9_466602** SeqNo: **8007189** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	398.4	20	400	0	99.6	78 - 124	411	3.12	20	
1,1,1-Trichloroethane	437	20	400	0	109	74 - 131	460.4	5.22	20	
1,1,2,2-Tetrachloroethane	410.3	20	400	0	103	71 - 121	400.9	2.3	20	
1,1,2-Trichloroethane	385	20	400	0	96.3	80 - 119	382.5	0.658	20	
1,1-Dichloroethane	415.4	20	400	0	104	77 - 125	429.3	3.28	20	
1,1-Dichloroethene	406.8	20	400	0	102	71 - 131	432.8	6.19	20	
1,1-Dichloropropene	407.9	20	400	0	102	78 - 125	425.9	4.33	20	
1,2,3-Trichlorobenzene	418.7	20	400	0	105	69 - 129	402.3	3.99	20	
1,2,3-Trichloropropane	378.9	20	400	0	94.7	73 - 122	383.9	1.32	20	
1,2,4-Trichlorobenzene	432.5	20	400	0	108	69 - 130	407.8	5.89	20	
1,2,4-Trimethylbenzene	466.9	20	400	0	117	76 - 124	463.7	0.687	20	
1,2-Dibromo-3-chloropropane	387	20	400	0	96.8	62 - 128	369	4.76	20	
1,2-Dibromoethane	394.9	20	400	0	98.7	77 - 121	389.7	1.32	20	
1,2-Dichlorobenzene	410	20	400	0	103	80 - 119	414.4	1.06	20	
1,2-Dichloroethane	379.4	20	400	0	94.9	73 - 128	385.9	1.69	20	
1,2-Dichloropropane	410	20	400	0	102	78 - 122	421	2.66	20	
1,3,5-Trimethylbenzene	454.1	20	400	0	114	75 - 124	451.9	0.474	20	
1,3-Dichlorobenzene	410.1	20	400	0	103	80 - 119	407.6	0.61	20	
1,3-Dichloropropane	395	20	400	0	98.7	80 - 119	391.3	0.934	20	
1,4-Dichlorobenzene	416.2	20	400	0	104	79 - 118	419.8	0.882	20	
2,2-Dichloropropane	464.9	20	400	0	116	60 - 139	490.2	5.31	20	
2-Butanone	726.3	40	800	0	90.8	56 - 143	723.5	0.379	20	
2-Chlorotoluene	421.4	20	400	0	105	79 - 122	425	0.839	20	
2-Hexanone	747.6	40	800	0	93.4	57 - 139	744.2	0.458	20	
4-Chlorotoluene	439.2	20	400	0	110	78 - 122	435	0.966	20	
4-Isopropyltoluene	484.4	20	400	0	121	77 - 127	466.4	3.79	20	
4-Methyl-2-pentanone	777	40	800	0	97.1	67 - 130	766.3	1.38	20	
Acetone	682.7	40	800	0	85.3	39 - 160	665.9	2.48	20	
Benzene	391.4	20	400	0	97.8	79 - 120	400.5	2.3	20	
Bromobenzene	393.9	20	400	0	98.5	80 - 120	390.9	0.765	20	
Bromochloromethane	384.7	20	400	0	96.2	78 - 123	405.7	5.33	20	
Bromodichloromethane	406.8	20	400	0	102	79 - 125	411.1	1.05	20	
Bromoform	365.2	20	400	0	91.3	66 - 130	372.5	1.97	20	
Bromomethane	394.3	20	400	0	98.6	53 - 141	427.7	8.13	20	

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ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466602 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24041892-02MSD** Units: **ug/L** Analysis Date: **13-May-2024 13:23**
Client ID: Run ID: **VOA9_466602** SeqNo: **8007189** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	794.3	40	800	0	99.3	64 - 133	816.1	2.71	20	
Carbon tetrachloride	421.1	20	400	0	105	72 - 136	430	2.11	20	
Chlorobenzene	393.1	20	400	0	98.3	82 - 118	395.6	0.638	20	
Chloroethane	406.3	20	400	0	102	60 - 138	419	3.08	20	
Chloroform	402.4	20	400	0	101	79 - 124	417	3.57	20	
Chloromethane	385.3	20	400	0	96.3	50 - 139	398	3.26	20	
cis-1,2-Dichloroethene	402.5	20	400	0	101	78 - 123	424.2	5.26	20	
cis-1,3-Dichloropropene	414.8	20	400	0	104	75 - 124	408.4	1.55	20	
Dibromochloromethane	378.9	20	400	0	94.7	74 - 126	381.1	0.584	20	
Dibromomethane	375	20	400	0	93.8	79 - 123	380.1	1.35	20	
Dichlorodifluoromethane	386.7	20	400	0	96.7	32 - 152	401.4	3.72	20	
Ethylbenzene	425	20	400	0	106	79 - 121	431.9	1.6	20	
Hexachlorobutadiene	493.9	20	400	0	123	66 - 134	428.1	14.3	20	
Isopropylbenzene	452.2	20	400	0	113	72 - 131	467.2	3.26	20	
m,p-Xylene	888.7	40	800	0	111	80 - 121	913.5	2.75	20	
Methylene chloride	385.7	40	400	0	96.4	74 - 124	403.2	4.44	20	
Naphthalene	393	20	400	0	98.2	61 - 128	374	4.96	20	
n-Butylbenzene	463	20	400	0	116	75 - 128	449.4	2.98	20	
n-Propylbenzene	471.9	20	400	0	118	76 - 126	468.5	0.728	20	
o-Xylene	434.3	20	400	0	109	78 - 122	439.3	1.13	20	
sec-Butylbenzene	477.1	20	400	0	119	77 - 126	459	3.88	20	
Styrene	444.2	20	400	0	111	78 - 123	447.1	0.65	20	
tert-Butylbenzene	459.4	20	400	0	115	78 - 124	447	2.73	20	
Tetrachloroethene	443	20	400	0	111	74 - 129	459.6	3.68	20	
Toluene	424.4	20	400	0	106	80 - 121	435	2.46	20	
trans-1,2-Dichloroethene	414.6	20	400	0	104	75 - 124	434	4.59	20	
trans-1,3-Dichloropropene	404.6	20	400	0	101	73 - 127	413.1	2.07	20	
Trichloroethene	417.1	20	400	0	104	79 - 123	431.4	3.37	20	
Trichlorofluoromethane	412.1	20	400	0	103	65 - 141	442.1	7.04	20	
Vinyl chloride	397.1	20	400	0	99.3	58 - 137	419.9	5.57	20	
Surr: 1,2-Dichloroethane-d4	*1115*	*700*	*1000*	*0*	*111*	*81 - 118*	*1102*	*1.11*	*20*	
Surr: 4-Bromofluorobenzene	*1102*	*700*	*1000*	*0*	*110*	*85 - 114*	*1111*	*0.862*	*20*	
Surr: Dibromofluoromethane	*1073*	*700*	*1000*	*0*	*107*	*80 - 119*	*1078*	*0.507*	*20*	
Surr: Toluene-d8	*1105*	*700*	*1000*	*0*	*111*	*89 - 112*	*1083*	*1.99*	*20*	

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ALS Houston, US Date: 24-May-24

Client:	Bhate Environmental Associates, Inc.
Project:	Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder:	HS24050531

QC BATCH REPORT

Batch ID:	**R466602 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24050531-01 HS24050531-03

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ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

QC BATCH REPORT

Batch ID: R466388 (0) **Instrument: UV-2450** **Method: HEXAVALENT CHROMIUM BY SW7196A**

MBLK Sample ID: **MBLK-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002340** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.0100	0.0100								U

LCS Sample ID: **LCS-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002339** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.247	0.0100	0.25	0	98.8	80 - 120				

LCSD Sample ID: **LCSD-R466388** Units: **mg/L** Analysis Date: **09-May-2024 10:10**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002338** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.25	0.0100	0.25	0	100	86 - 117	0.247	1.21	15	

MS Sample ID: **HS24050523-12MS** Units: **mg/L** Analysis Date: **09-May-2024 12:06**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002342** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.267	0.0100	0.25	0	107	86 - 117				

MSD Sample ID: **HS24050523-12MSD** Units: **mg/L** Analysis Date: **09-May-2024 12:07**
Client ID: Run ID: **UV-2450_466388** SeqNo: **8002341** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.261	0.0100	0.25	0	104	86 - 117	0.267	2.27	15	

The following samples were analyzed in this batch: HS24050531-01

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ALS Houston, US Date: 24-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: **HS24050531**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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: 24-May-24

Sample Receipt Checklist

Work Order ID: HS24050531 **Date/Time Received:** 09-May-2024 10:20

Client Name: Bhate Environmental **Received by:** Nelson D. Dusara

Completed By: /S/ Jacob Coronado (eSignature) 09-May-2024 12:05 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 09-May-2024 21:00 (Date/Time)

Matrices: w 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 ☐	
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):	2.8uc/2.9c	ir31
Cooler(s)/Kit(s):	blue	
Date/Time sample(s) sent to storage:	05/09/2024 1205	

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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HS24050531

Bhate Environmental Associates, Inc.

Longhorn GW Treatment Plant Monthly Effluent Sam

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, TX 77099 (281) 530 – 5656 ATTN: James Guin

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT MONTHLY EFFLUENT 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: VOLATILES	SILVER, SELENIUM, LEAD, BARIUM	HEXAVALENT CHROMIUM	1, 4 - DIOXANE	PERCHLORATE						Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_050824	Water	05/08/24 / 13:00		3	X										HCL	
LH18/24-SP650_050824	Water	05/08/24 / 13:00		2			X	X							NONE	
LH18/24-SP650_050824_AIX	Water	05/08/24 / 13:00		1					X						NONE	
LH18/24-SP650_050824	Water	05/08/24 / 13:00		1		X									HNO3	
Trip Blank	Water	05/08/24		2	X										HCL	

Additional Remarks: **Standard TAT on all parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	05/08/24	13:30	[illegible]	05/09/24	10:20						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

blue

2-5 IR3)

(Word) S:\D-ces\Forms\Chain of Custody - BiWeekly

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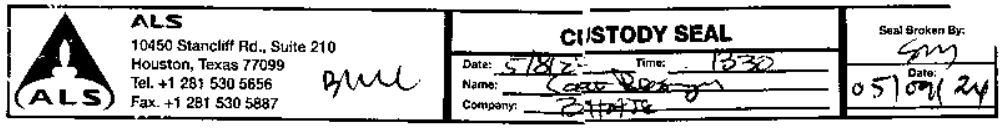
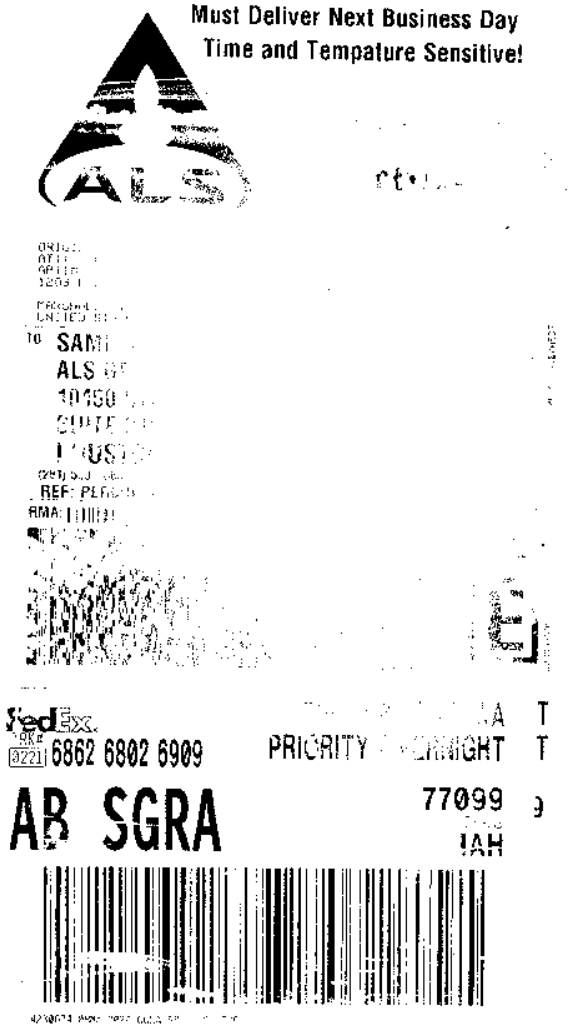


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5/8/24 Time: 1330
Name:
Company:

Seal Broken By:
Date: 05/09/24

Bill MAY 0 9 2024



Must Deliver Next Business Day
Time and Tempature Sensitive!

FedEx
0221 6862 6802 6909

PRIORITY OVERNIGHT

77099

IAH

AB SGRA

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May 20, 2024 Service Request No:E2400477

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24050531

Enclosed are the results of the sample(s) submitted to our laboratory May 09, 2024
For your reference, these analyses have been assigned our service request number **E2400477.**

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.:	E2400477
Project:	HS24050531	Date Received:	05/09/24
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 05/09/24.

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:

EQ2400230: 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:**E2400477
Project: HS24050531

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400477-001	LH18/24-SP650_050824_AIX	5/8/2024	1300

Service Request Summary

Folder #: **E2400477**
Client Name: ALS Environmental - US
Project Name: HS24050531
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400477-001	LH18/24-SP650_050824_AIX	Water	05/08/24 1300	**IV**

Service Request Summary

Folder #: **E2400477**
Client Name: ALS Environmental - US
Project Name: HS24050531
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
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 Hampshire Environmental Laboratory Accreditation Program	04016-2024	4/30/2025
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
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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E2400477 5
ALS Group USA, Corp
HS24050531

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 25599

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:	HS24050531
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050531-02**	**LH18/24-SP650_050824_AIX**	**Water**	**08 May 2024 13:00**
	Provide Level II and Level IV reports in separate pdfInclude EDDS - EQUIS EFWEDD_LHAAP and BASICWQC_CASNo			16 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: 5/9/24 1020

Cooler ID(s): _____ Temperature(s): _____

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HS24050531

5

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Sample Receipt Checklist

Work Order ID: HS24050531 **Date/Time received:** 09 May 2024 10:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Nelson D. Dusara

Completed/By: 09 May 2024 12:05 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 05/09/2024 1205

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#: 438298 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 5/10/24 13:04

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400464-001	LGAC-INF-050624	.02	6850/ClO4 DOD			Water	10mL	
2	E2400476-001	LH18/24-SP140_050824	.01	6850/ClO4 DOD			Water	10mL	
3	E2400477-001	LH18/24-SP650_050824_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2400230-01	MB		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400230-02	LCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400230-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
7	EQ2400230-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400464-001 100.00µL E2400476-001 100.00µL E2400477-001 100.00µL EQ2400230-01 100.00µL EQ2400230-02 100.00µL EQ2400230-03 100.00µL
EQ2400230-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400230-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400230-02 100.00µL EQ2400230-03 100.00µL EQ2400230-04 100.00µL

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 (231696)

Preparation Steps

Step: Preparation
Started: 5/10/24 13:04
Finished: 5/10/24 16:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Preparation Information Benchsheet

Prep Run#: 438298
Team: Semivoa GCMS/JOSEL.JUAREZ

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/10/24 13:04

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

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Analytical Results

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP650_050824_AIX	**Units:**	µg/L
Lab Code:	E2400477-001	**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	**0.275**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:50	438298	840924	

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400230-01	**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	5/10/24	5/10/24 17:15	438298	840923	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Analyzed:**	5/10/24 - 5/14/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	438298

	Lab Control Sample EQ2400230-02			Duplicate Lab Control Sample EQ2400230-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0982	0.100	98	0.110	0.100	110	84 - 119	12	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:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-02	**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	**0.0982**	J	0.100	0.0500	0.0250	1	5/10/24	5/10/24 17:21	438298	840923	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-03	**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	**0.110**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:33	438298	840924	

HS24050531-MSSEMI-SW8270SIM

ALS WO# HS24050531

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Form 1

Organic Analysis Data Sheet

EPA 3510

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24050531	

EPA 3510

LH18/24-SP650_050824	Collected	Received	Matrix	Basis
HS24050531-01	05/08/24 13:00	05/09/24 10:20	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.2	a	0.10	0.10	0.10	10	05/17/24 12:51	SV-6_467024	05.D	211763

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24050531

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-467024

LH18/24-SP650_050824

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24050531-01	SV6	Water	05/17/24 12:51	%REC	10

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	05.D	0.071	0.08	88.3		40-140
4-Terphenyl-d14	05.D	0.072	0.08	89.9		40-140
Nitrobenzene-d5	05.D	0.088	0.08	110		40-140

LCS-211763

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
LCS-211763	SV6	Aqueous	05/16/24 14:57	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.06219	0.08	77.7		40-140
4-Terphenyl-d14	06.D	0.06344	0.08	79.3		40-140
Nitrobenzene-d5	06.D	0.07072	0.08	88.4		40-140

LCSD-211763

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
LCSD-211763	SV6	Aqueous	05/16/24 15:15	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06254	0.08	78.2		40-140
4-Terphenyl-d14	07.D	0.07197	0.08	90.0		40-140
Nitrobenzene-d5	07.D	0.06239	0.08	78.0		40-140

MBLK-211763

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
MBLK-211763	SV6	Aqueous	05/16/24 14:40	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	05.D	0.05672	0.08	70.9		40-140
4-Terphenyl-d14	05.D	0.07263	0.08	90.8		40-140
Nitrobenzene-d5	05.D	0.06812	0.08	85.2		40-140

Form 2 - System Monitoring Compound Recovery

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

EPA 3510

SAMPLENUM LCS-211763

SV-6_467024				LCS-211763		LCSD-211763		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/16/24	Run Date	05/16/24	
Prep Date	05/10/24	Analysis Batch	211763	Run Time	14:57	Run Time	15:15	
Prep Method	SW3510	Prep Batch	211763	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	0.07322	92		0.07025	88		20	4.14	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24050531	

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-211763	05/10/24	211763	Aqueous	05/16/24 14:40	211763	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-211763	LCS-211763	LCS	05/16/24 14:57	211763	SV6	06.D
LCSD-211763	LCSD-211763	LCSD	05/16/24 15:15	211763	SV6	07.D
LH18/24-SP650_050824	HS24050531-01	SAMP	05/17/24 12:51	211763	SV6	05.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24050531	

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-467024

Tune File 01.D 05/16/24 5/16/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	31.5 (31.5)
68	Less than 2.0% of mass 69	0.5 (1.57) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.627) 1
127	10.0 - 80.0% of mass 198	41.8 (41.8)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (93.8)
199	5.0 - 9.0% of mass 198	7.3 (7.3)
275	10.0 - 60.0% of mass 198	26.8 (26.8)
365	Greater than 1.0% of mass 198	3.2 (3.25)
441	Present, but < 24.0% of mass 442	15.6 (72.9)
442	greater than 50.0% of mass 198	106.6 (107)
443	15.0 - 24.0% of mass 442	21.4 (20) 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	5/16/2024	03	14DX-0.08
2	MBLK-211763	MBLK	5/16/2024	05	MBLK-211763
3	LCS-211763	LCS	5/16/2024	06	LCS-211763
4	LCSD-211763	LCSD	5/16/2024	07	LCSD-211763
5	14DX-0.08	CCV	5/16/2024	09	14DX-0.08
6	MBLK-211587	MBLK	5/16/2024	11	MBLK-211587
7	LCS-211587	LCS	5/16/2024	12	LCS-211587
8	LCSD-211587	LCSD	5/16/2024	13	LCSD-211587
9	14DX-0.08	CCV	5/17/2024	03	14DX-0.08
10	HS24050531-	SAMP	5/17/2024	05	LH18/24-SP650_050824
11	14DX-0.08	CCV	5/17/2024	06	14DX-0.08

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 0.21892	0.20193 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 13 Phenol-d6	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

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	

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Matrix Spike - Sample No.: 14DX ICV-0.08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
1,4-Dioxane	0.08000	0.07572	95	40-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID 03.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 03.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 17-MAY-2024 1210
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	0.271	0.010	-9.578	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.29	0.010	-15.902	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.83	0.010	-10.166	20.0	Averaged	
1,4-Dioxane	0.214	0.229	0.010	7.02	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID 06.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 06.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 17-MAY-2024 1321
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	0.264	0.010	-12.020	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.47	0.010	-4.145	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.88	0.010	-7.795	20.0	Averaged	
1,4-Dioxane	0.214	0.214	0.010	-0.311	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID 09.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 09.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 16-MAY-2024 1550
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	0.285	0.010	-5.160	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.51	0.010	-1.125	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.88	0.010	-7.718	20.0	Averaged	
1,4-Dioxane	0.214	0.240	0.010	12.3	20.0	Averaged	

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	**HS24050531**	

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24050531**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-467024

Run ID SV-6_467024 **Start Date** 05/16/24 **EndDate** 05/17/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:33	14DX-0.08	CCV	14DX-0.08	03.D	05/16/24	1
12:10	14DX-0.08	CCV	14DX-0.08	03.D	05/17/24	1
14:40	MBLK-211763	MBLK	MBLK-211763	05.D	05/16/24	1
12:51	HS24050531-01	SAMP	LH18/24-	05.D	05/17/24	10
14:57	LCS-211763	LCS	LCS-211763	06.D	05/16/24	1
13:21	14DX-0.08	CCV	14DX-0.08	06.D	05/17/24	1
15:15	LCSD-211763	LCSD	LCSD-211763	07.D	05/16/24	1
15:50	14DX-0.08	CCV	14DX-0.08	09.D	05/16/24	1
16:25	MBLK-211587	MBLK	MBLK-211587	11.D	05/16/24	1
16:42	LCS-211587	LCS	LCS-211587	12.D	05/16/24	1
17:00	LCSD-211587	LCSD	LCSD-211587	13.D	05/16/24	1
17:17	HS24050216-01	SAMP	ZZZZZZZZZZ	14.D	05/16/24	1
17:35	HS24050385-01	SAMP	ZZZZZZZZZZ	15.D	05/16/24	1
17:52	HS24050408-01	SAMP	ZZZZZZZZZZ	16.D	05/16/24	1
18:10	HS24050408-02	SAMP	ZZZZZZZZZZ	17.D	05/16/24	1
18:27	HS24050408-03	SAMP	ZZZZZZZZZZ	18.D	05/16/24	1
18:44	HS24050540-04	SAMP	ZZZZZZZZZZ	19.D	05/16/24	1
19:02	HS24050540-05	SAMP	ZZZZZZZZZZ	20.D	05/16/24	1
19:19	HS24050540-06	SAMP	ZZZZZZZZZZ	21.D	05/16/24	1

SV06 -Logbook

Batch: 60053 **Analyst:** Marco Gutierrez

Date: 05-17-2024 **Reviewer:**

Method: R8270D LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	05-17-2024 10:23 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	05-17-2024 10:35 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	CCV	05-17-2024 12:10 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	SIM CCB	SAMP	05-17-2024 12:33 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	HS24050531-01	SAMP	05-17-2024 12:51 pm	10.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.08	SAMP	05-17-2024 01:21 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	SIM CCB	SAMP	05-17-2024 01:38 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	PAHLVI-0.025	CCV	05-17-2024 02:23 pm	1.00	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS24050310-01	SAMP	05-17-2024 03:02 pm	10.00	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	HS24050310-01	SAMP	05-17-2024 03:22 pm	100.0(	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	HS24050310-02	SAMP	05-17-2024 03:42 pm	10.00	33.00 mL	2000.00 mL	11.D	Liquid	Y	NA
12	HS24050310-02	SAMP	05-17-2024 04:02 pm	100.0(	33.00 mL	2000.00 mL	12.D	Liquid	Y	NA
13	MBLK-211828	SAMP	05-17-2024 04:22 pm	1.00	33.00 mL	2000.00 mL	13.D	Liquid	Y	NA
14	LCS-211828	SAMP	05-17-2024 04:42 pm	1.00	33.00 mL	2000.00 mL	14.D	Liquid	Y	NA
15	LCSD-211828	SAMP	05-17-2024 05:03 pm	1.00	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	HS24050606-01	SAMP	05-17-2024 05:23 pm	1.00	33.00 mL	2000.00 mL	16.D	Liquid	Y	NA
17	HS24050412-01	SAMP	05-17-2024 05:43 pm	1.00	33.00 mL	2000.00 mL	17.D	Liquid	Y	NA
18	HS24050412-02	SAMP	05-17-2024 06:03 pm	1.00	33.00 mL	2000.00 mL	18.D	Liquid	Y	NA
19	HS24050412-03	SAMP	05-17-2024 06:24 pm	1.00	33.00 mL	2000.00 mL	19.D	Liquid	Y	NA
20	HS24050412-04	SAMP	05-17-2024 06:44 pm	1.00	33.00 mL	2000.00 mL	20.D	Liquid	Y	NA
21	HS24050412-05	SAMP	05-17-2024 07:04 pm	1.00	33.00 mL	2000.00 mL	21.D	Liquid	Y	NA
22	HS24050412-07	SAMP	05-17-2024 07:24 pm	1.00	33.00 mL	2000.00 mL	22.D	Liquid	Y	NA
23	HS24050412-08	SAMP	05-17-2024 07:45 pm	1.00	33.00 mL	2000.00 mL	23.D	Liquid	Y	NA
24	HS24050412-09	SAMP	05-17-2024 08:05 pm	1.00	33.00 mL	2000.00 mL	24.D	Liquid	Y	NA
25	HS24050412-10	SAMP	05-17-2024 08:25 pm	1.00	33.00 mL	2000.00 mL	25.D	Liquid	Y	NA
26	HS24050412-11	SAMP	05-17-2024 08:45 pm	1.00	33.00 mL	2000.00 mL	26.D	Liquid	Y	NA
27	HS24050412-12	SAMP	05-17-2024 09:05 pm	1.00	33.00 mL	2000.00 mL	27.D	Liquid	Y	NA
28	HS24050412-13	SAMP	05-17-2024 09:26 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA
29	HS24050412-13MS	SAMP	05-17-2024 09:46 pm	1.00	33.00 mL	2000.00 mL	29.D	Liquid	Y	NA
30	HS24050412-13MSD	SAMP	05-17-2024 10:06 pm	1.00	33.00 mL	2000.00 mL	30.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

HS24050531

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Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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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

Date : 12-DEC-2023 11:21

Client ID: DFTPP

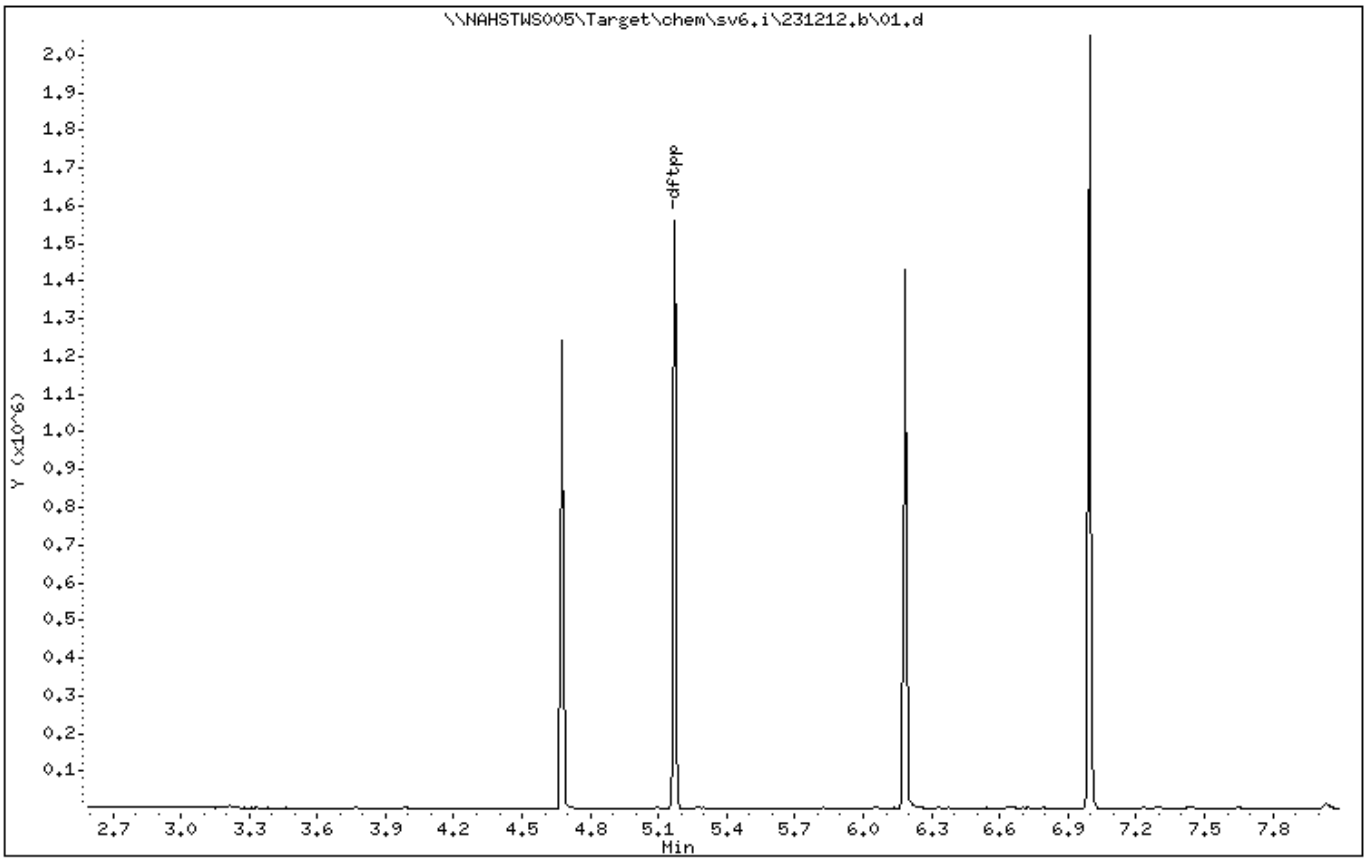
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



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Inj Date : 12-DEC-2023 11:21
InstruID : SV6.i
LabSampID : DFTPP

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Lab Smp Id: PAHSIM-0.08 Client Smp ID: PAHSIM-0.08
Inj Date : 12-DEC-2023 13:20
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.386	4.386	(1.000)	28457	0.10000	
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.854)	6262	0.08000	0.07980(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	17141	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	21658	0.08000	0.07934
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	35822	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	37227	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.078	9.078	(0.887)	29385	0.08000	0.07773
* 198 Perylene-d12	264	12.216	12.216	(1.000)	37882	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.005)	24191	0.08000	0.07748
61 2-Methylnaphthalene	142	5.053	5.053	(1.152)	16443	0.08000	0.07875
62 1-Methylnaphthalene	142	5.145	5.145	(1.173)	15196	0.08000	0.07800
83 Acenaphthylene	152	5.910	5.910	(0.976)	25076	0.08000	0.08001
88 Acenaphthene	154	6.080	6.080	(1.004)	15400	0.08000	0.07793
98 Fluorene	166	6.583	6.583	(1.087)	19249	0.08000	0.07923
92 Dibenzofuran	168	6.711	6.711	(1.108)	10259	0.08000	0.08007(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	30497	0.08000	0.07778
130 Anthracene	178	7.568	7.568	(1.009)	29677	0.08000	0.07595
149 Fluoranthene	202	8.676	8.676	(1.157)	37958	0.08000	0.08139
155 Pyrene	202	8.895	8.895	(0.869)	40356	0.08000	0.07456

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	38677	0.08000	0.07662
183 Chrysene	228	10.269	10.269 (1.003)	40103	0.08000	0.07127(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	37337	0.08000	0.07940
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	42990	0.08000	0.07555(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	34743	0.08000	0.07623(MH)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	41965	0.08000	0.07694(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	34155	0.08000	0.07540(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	35700	0.08000	0.07329(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D

Date : 12-DEC-2023 13:20

Client ID: PAHSIM-0.08

Instrument: SV6.i

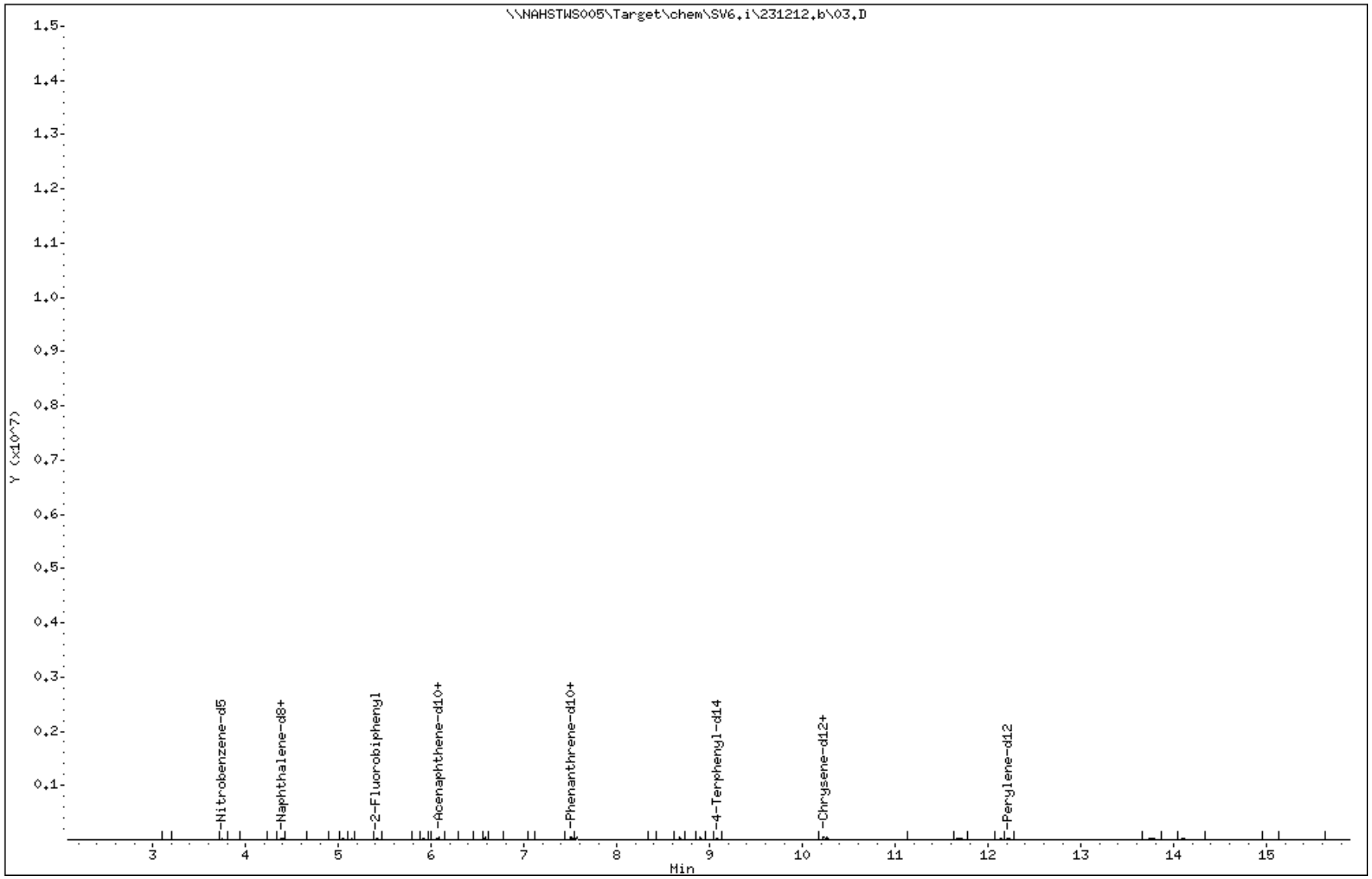
Sample Info: PAHSIM-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

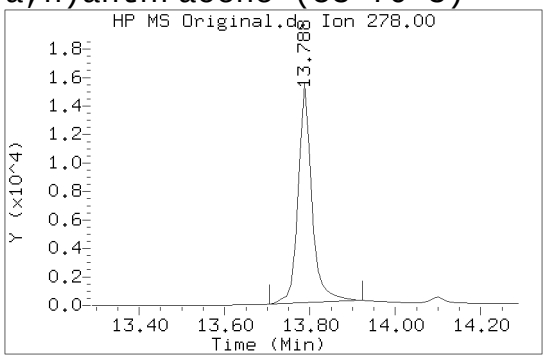


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE
MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



AFTER
MASS
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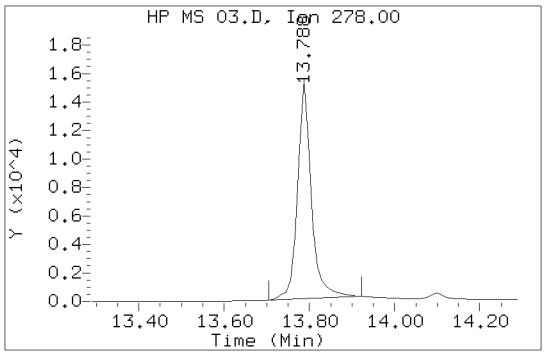
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
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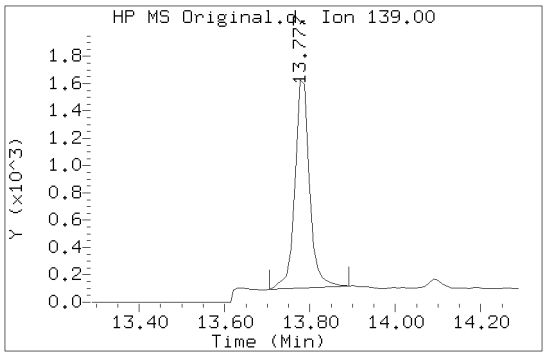
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



AFTER
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18-Dec-2023
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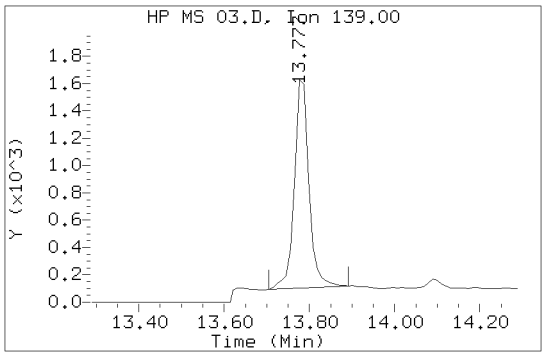

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AREA
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HEIGHT
3674
18-Dec-2023
10:16
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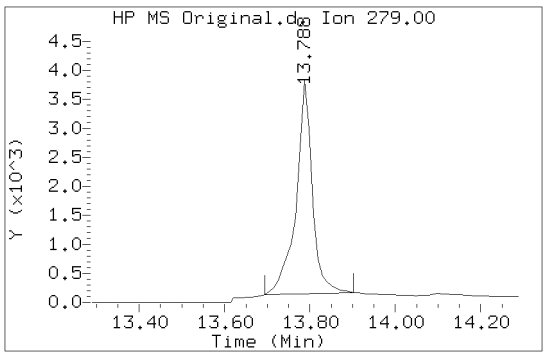

AFTER
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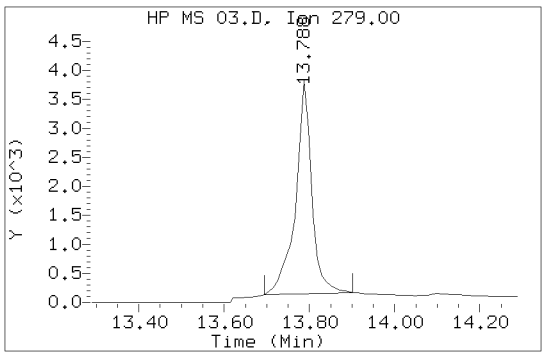
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

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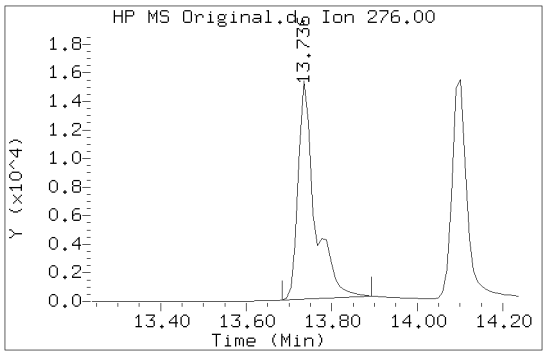
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



AFTER
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AREA
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HEIGHT
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18-Dec-2023
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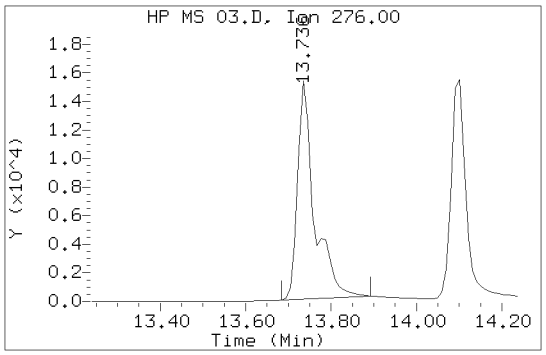
pham



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

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
138
AREA
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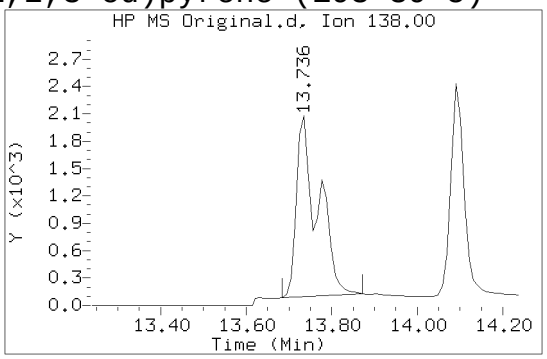
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
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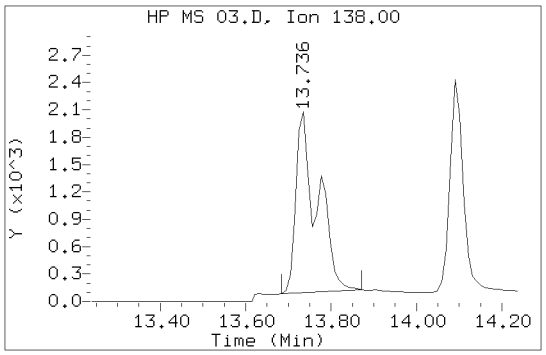

BEFORE

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AREA
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3606
18-Dec-2023
10:16
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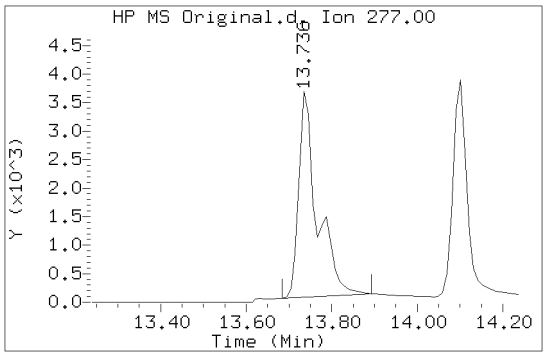
pham



AFTER

MASS
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AREA
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18-Dec-2023
10:16
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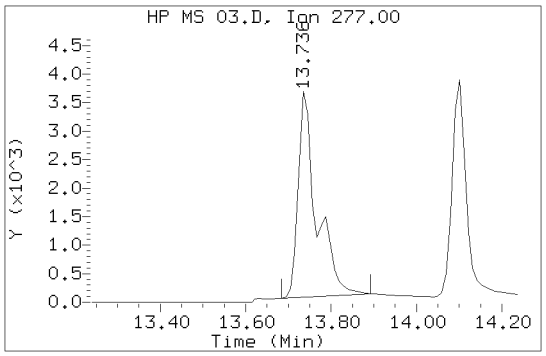
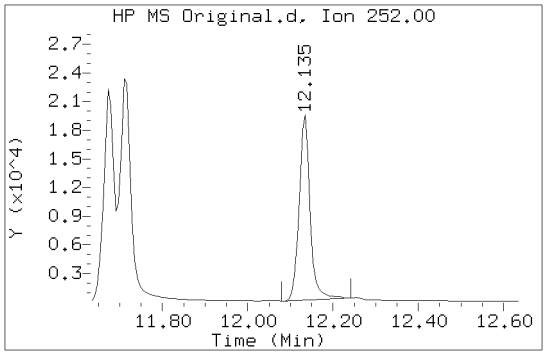


Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
252
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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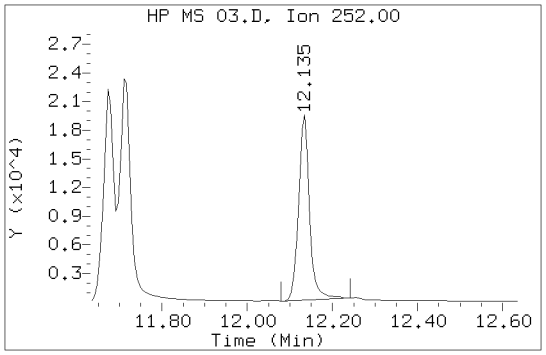
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



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18-Dec-2023
10:16
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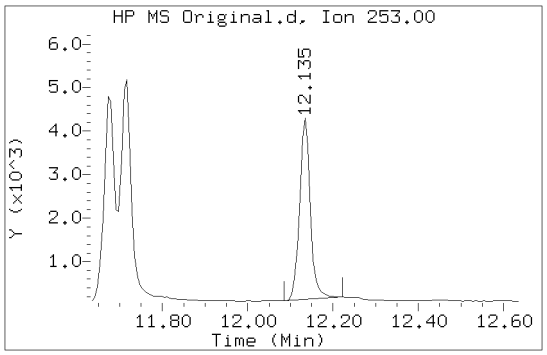

AFTER

MASS
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AREA
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18-Dec-2023
10:16
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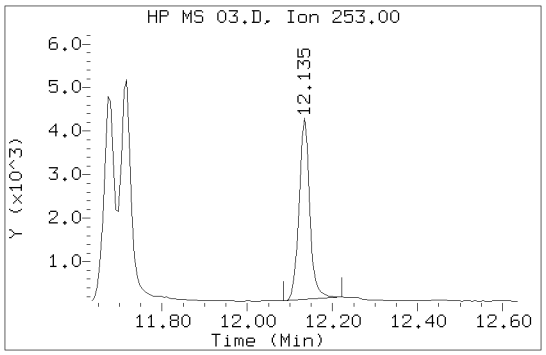
pham



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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
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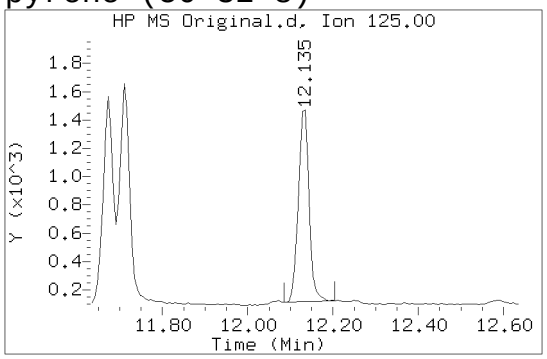
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham



AFTER

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1355
18-Dec-2023
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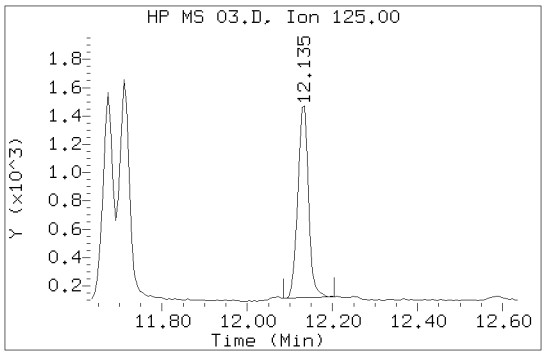

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

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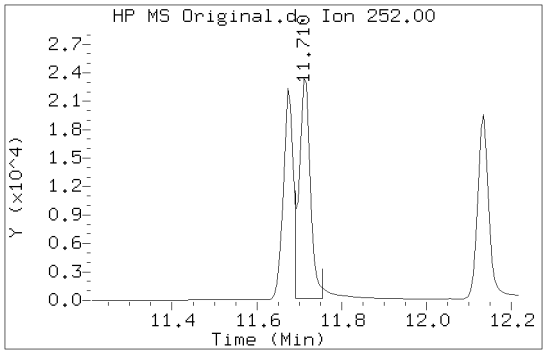
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



AFTER

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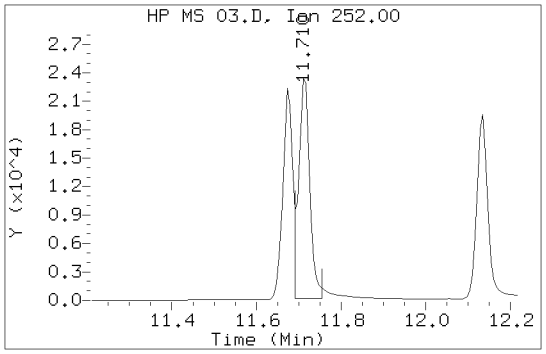
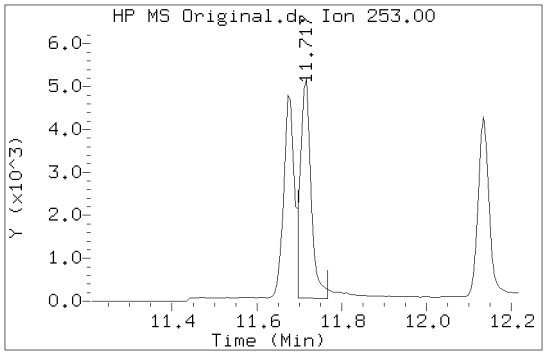
18-Dec-2023
10:16
linh
pham



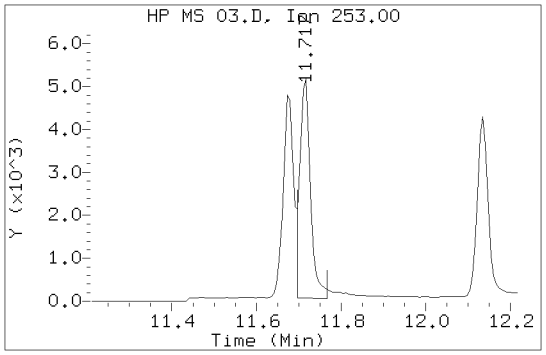
BEFORE

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



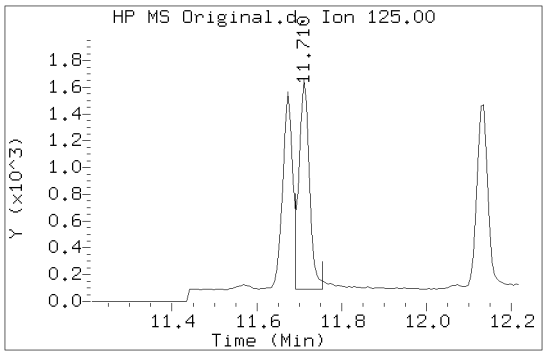
AFTER

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



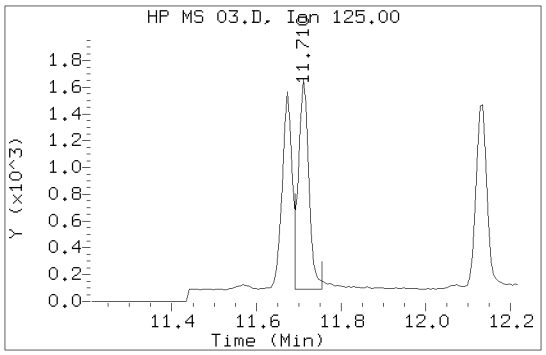
BEFORE

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



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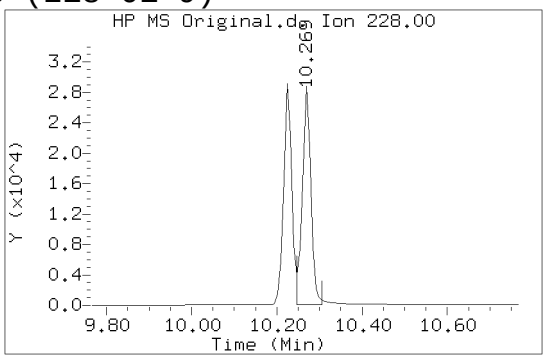
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

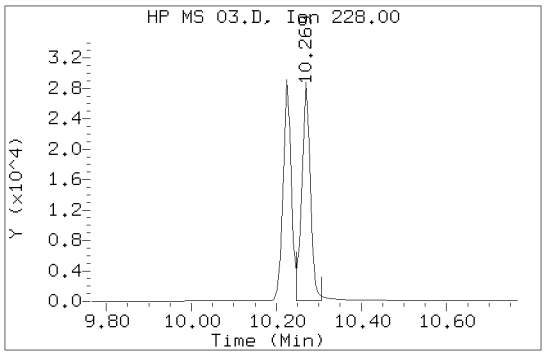
Chrysene (218-01-9)

Reason Code:

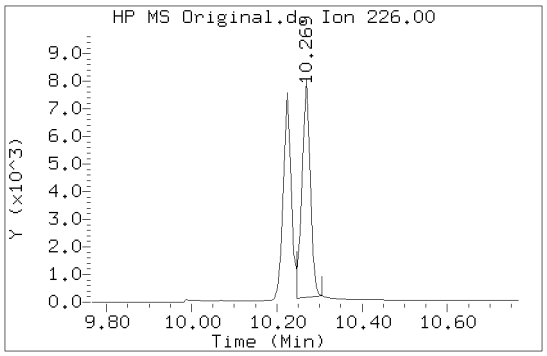
BEFORE
MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



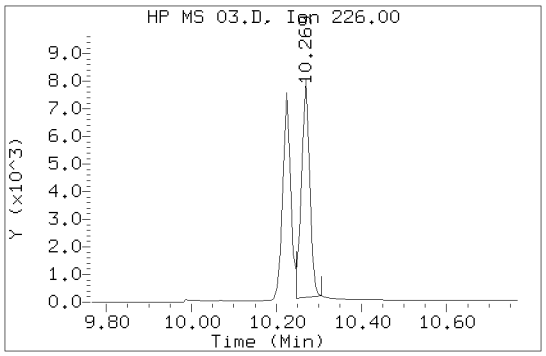
AFTER
MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



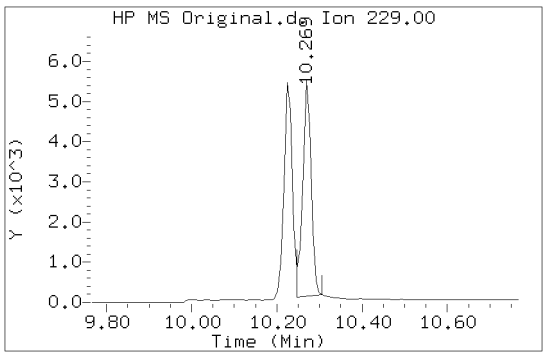
BEFORE
MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



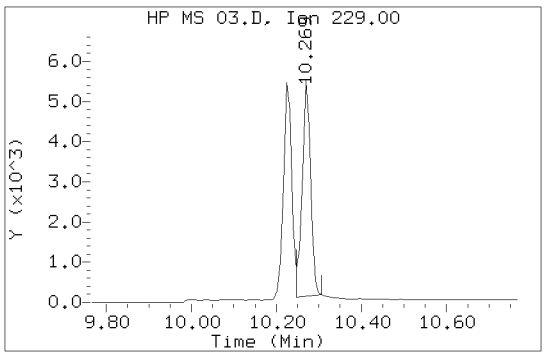
AFTER
MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



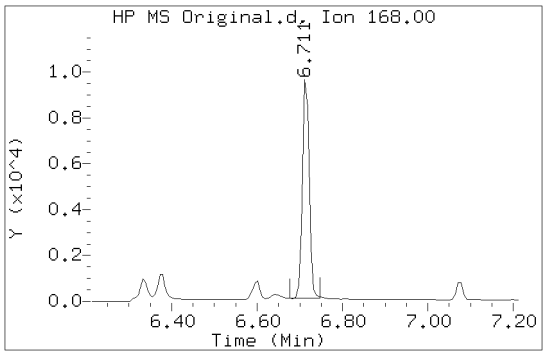
AFTER
MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



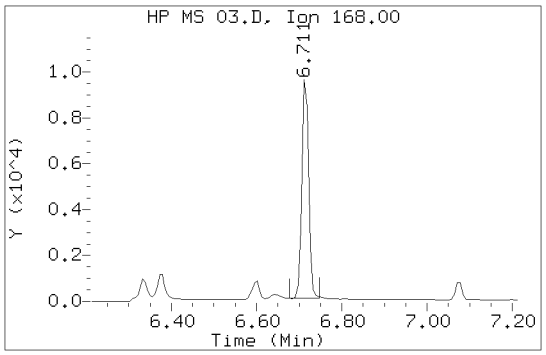
Dibenzofuran (132-64-9)

Reason Code:

BEFORE
MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



AFTER
MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



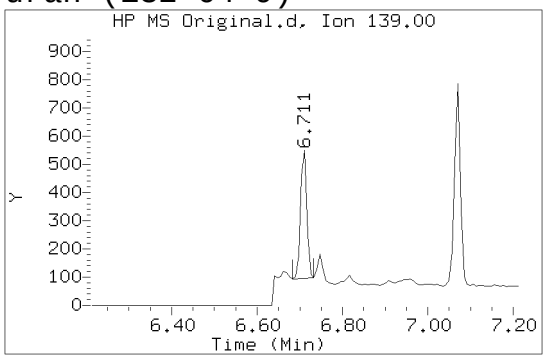
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzofuran (132-64-9)

Reason Code:

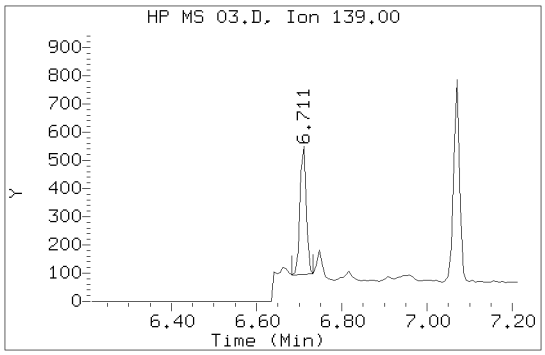
BEFORE

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

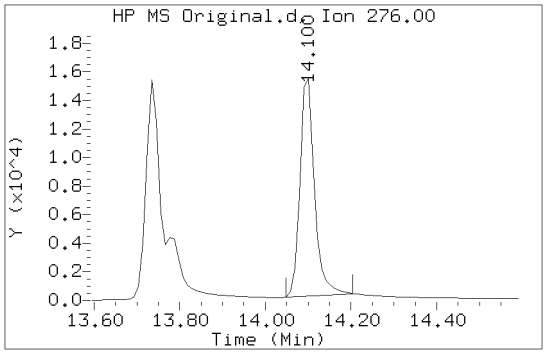


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

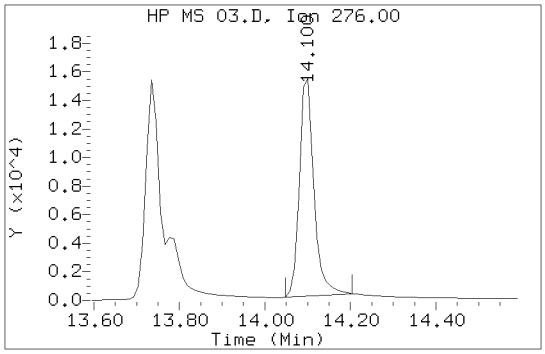
BEFORE

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



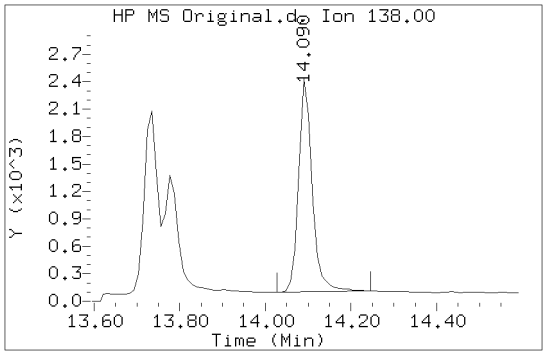
AFTER

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



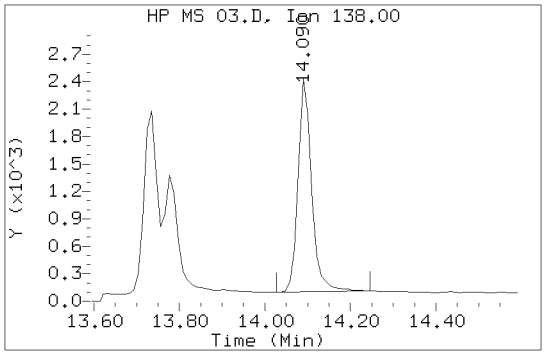
BEFORE

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



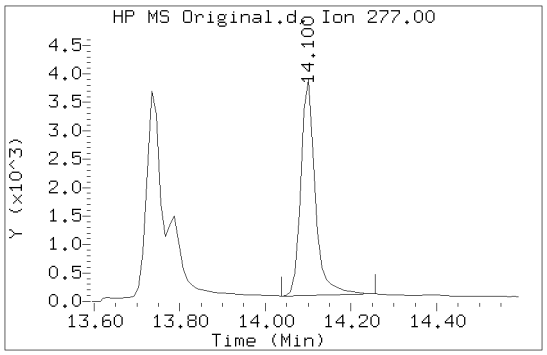
AFTER

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



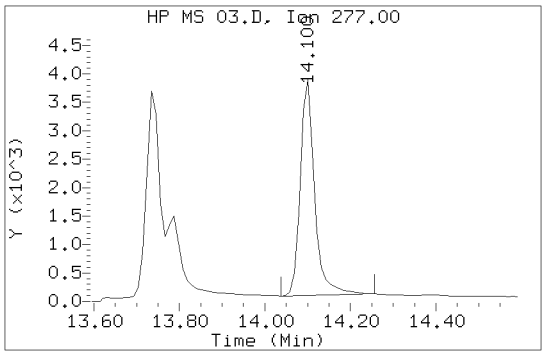
BEFORE

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



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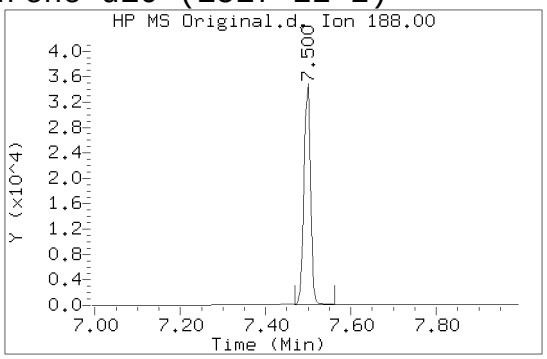
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

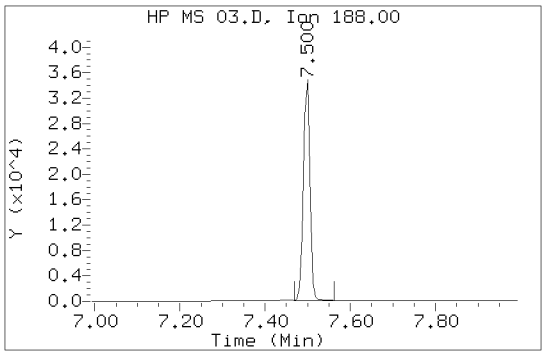
Phenanthrene-d10 (1517-22-2)

Reason Code:

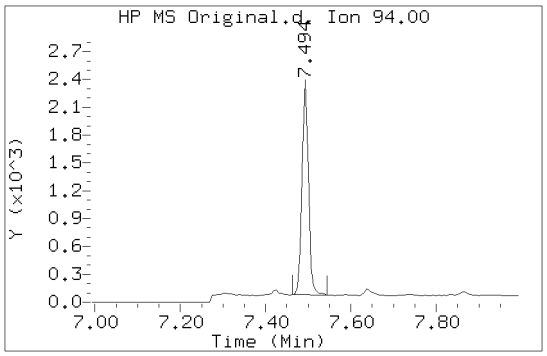
BEFORE
MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



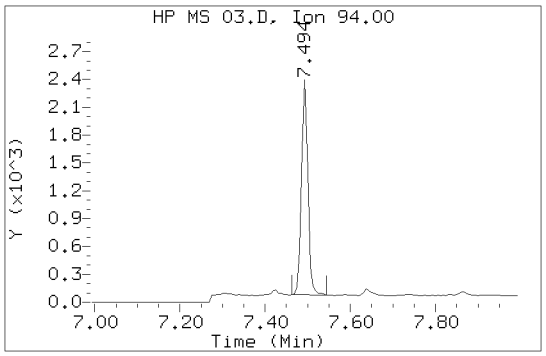
AFTER
MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



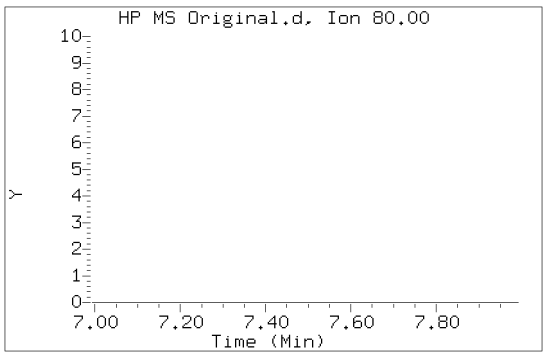
BEFORE
MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



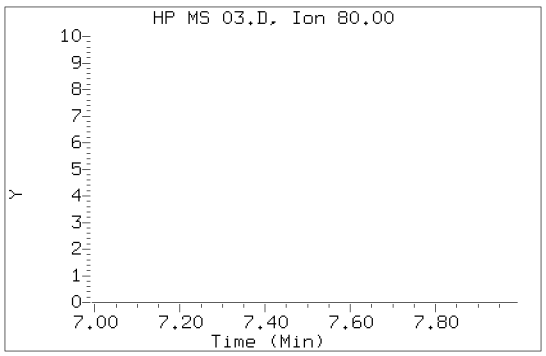
AFTER
MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



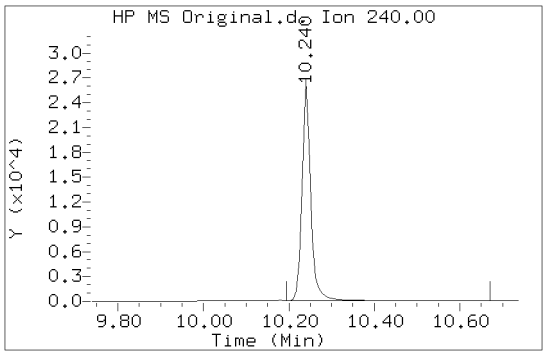
AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



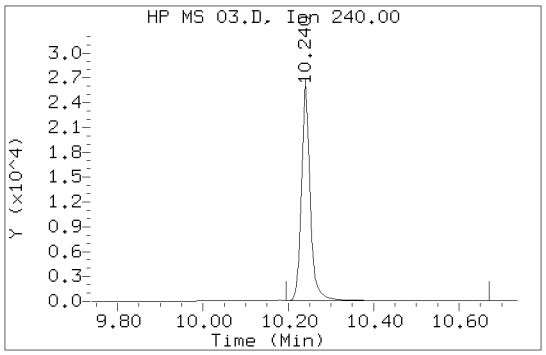
Chrysene-d12 (1719-03-5)

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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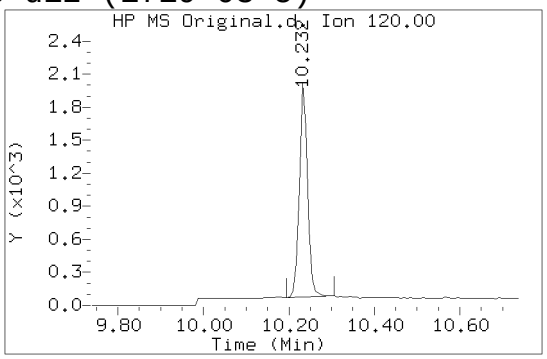
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

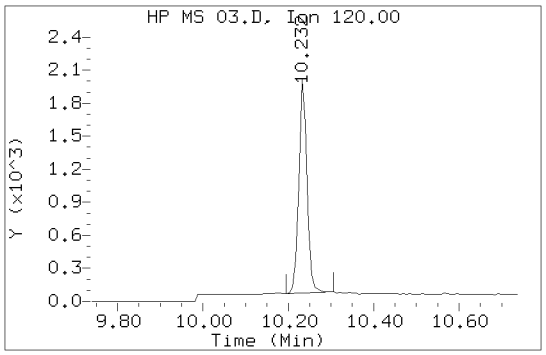
BEFORE

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



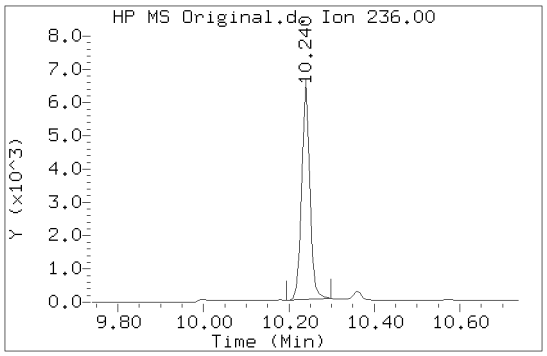
AFTER

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



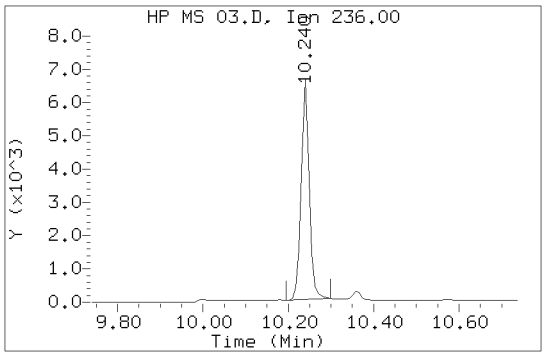
BEFORE

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

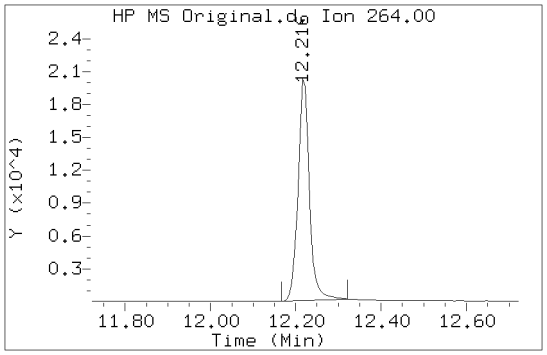


Perylene-d12 (1520-96-3)

Reason Code:

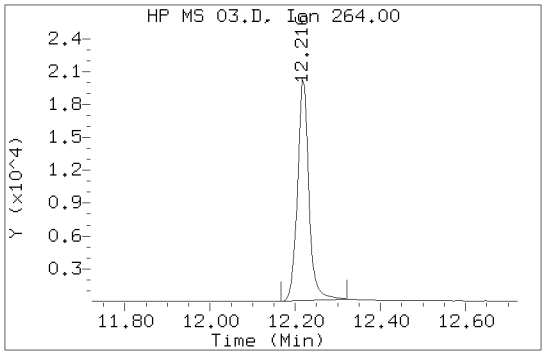
BEFORE

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



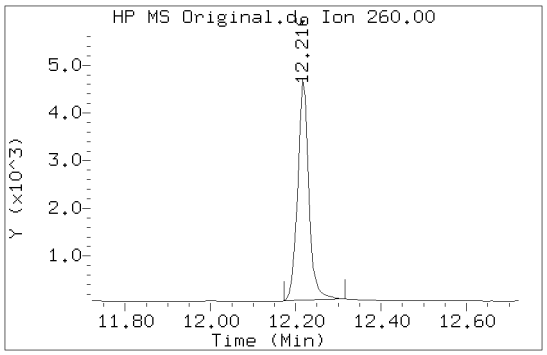
AFTER

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



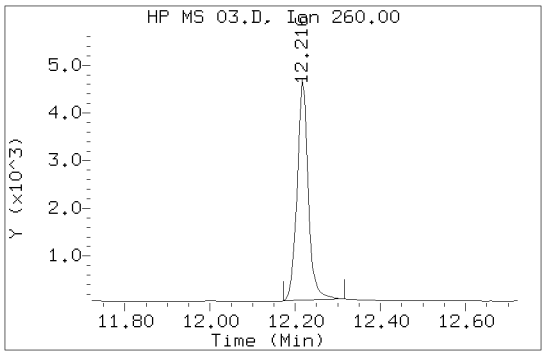
BEFORE

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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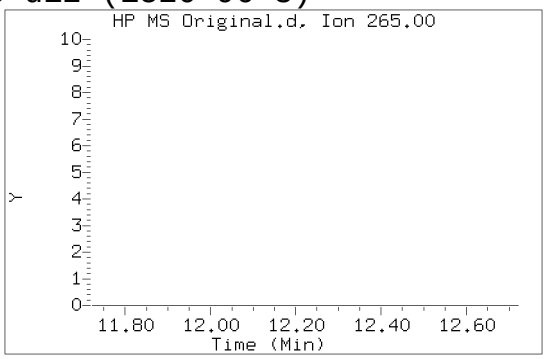
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Perylene-d12 (1520-96-3)

Reason Code:

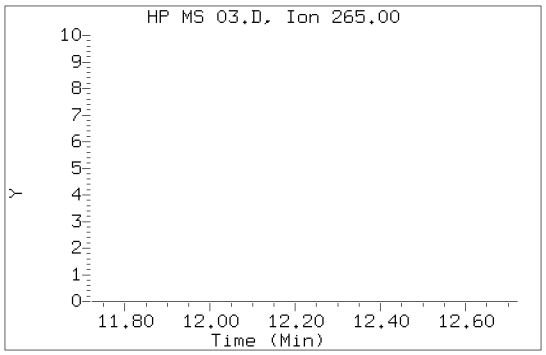
BEFORE

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

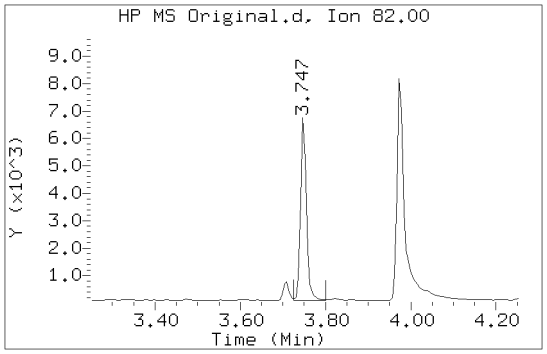


Nitrobenzene-d5 (4165-60-0)

Reason Code:

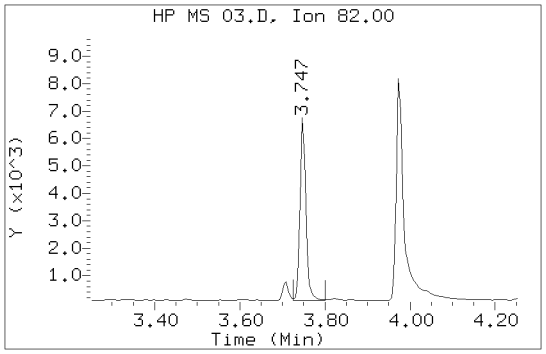
BEFORE

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



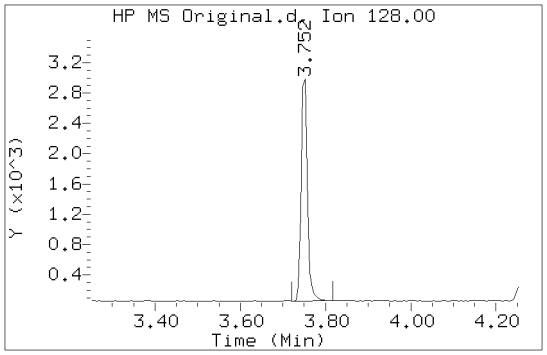
AFTER

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
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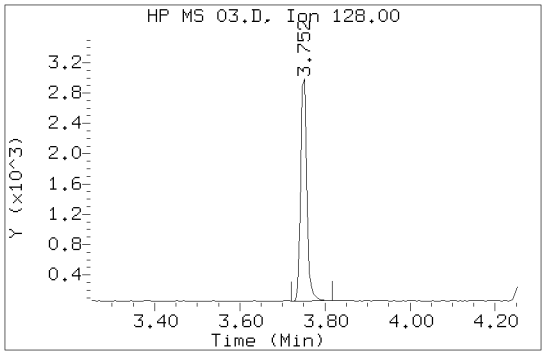

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10:16
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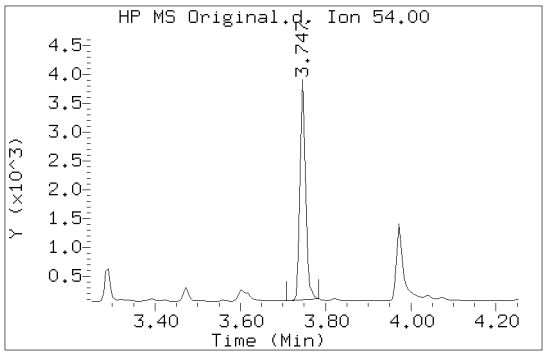
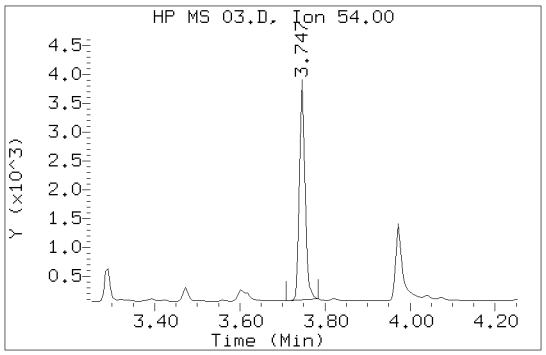


AFTER

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
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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)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.853)	588	0.01000	0.009616(M)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	13618	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	2011	0.01000	0.009273(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	28419	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	26412	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.892)	3044	0.01000	0.01135(Q)
* 198 Perylene-d12	264	12.224	12.224	(1.000)	28037	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	2342	0.01000	0.009626(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	1471	0.01000	0.009041(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	1404	0.01000	0.009248(M)
83 Acenaphthylene	152	5.915	5.915	(0.977)	2247	0.01000	0.009024(M)
88 Acenaphthene	154	6.086	6.086	(1.005)	1535	0.01000	0.009777(M)
98 Fluorene	166	6.587	6.587	(1.088)	1791	0.01000	0.009279(M)
92 Dibenzofuran	168	6.716	6.716	(1.109)	961	0.01000	0.009441(M)
128 Phenanthrene	178	7.516	7.516	(1.002)	3022	0.01000	0.009715(M)
130 Anthracene	178	7.566	7.566	(1.009)	2993	0.01000	0.009656(M)
149 Fluoranthene	202	8.681	8.681	(1.158)	3567	0.01000	0.009641(M)
155 Pyrene	202	8.900	8.900	(0.869)	3927	0.01000	0.01023(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (1.005)	3679	0.01000	0.01027
183 Chrysene	228	10.272	10.272 (1.009)	4081	0.01000	0.01022

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.955)	3363	0.01000	0.009663(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.958)	4159	0.01000	0.009876(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	3316	0.01000	0.009831(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	4117	0.01000	0.01020(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.128)	3270	0.01000	0.009753(M)
212 Benzo(g,h,i)perylene	276	14.102	14.102	(1.154)	3852	0.01000	0.01068(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D

Date : 12-DEC-2023 13:58

Client ID: PAHSIM-0.010

Instrument: SV6.i

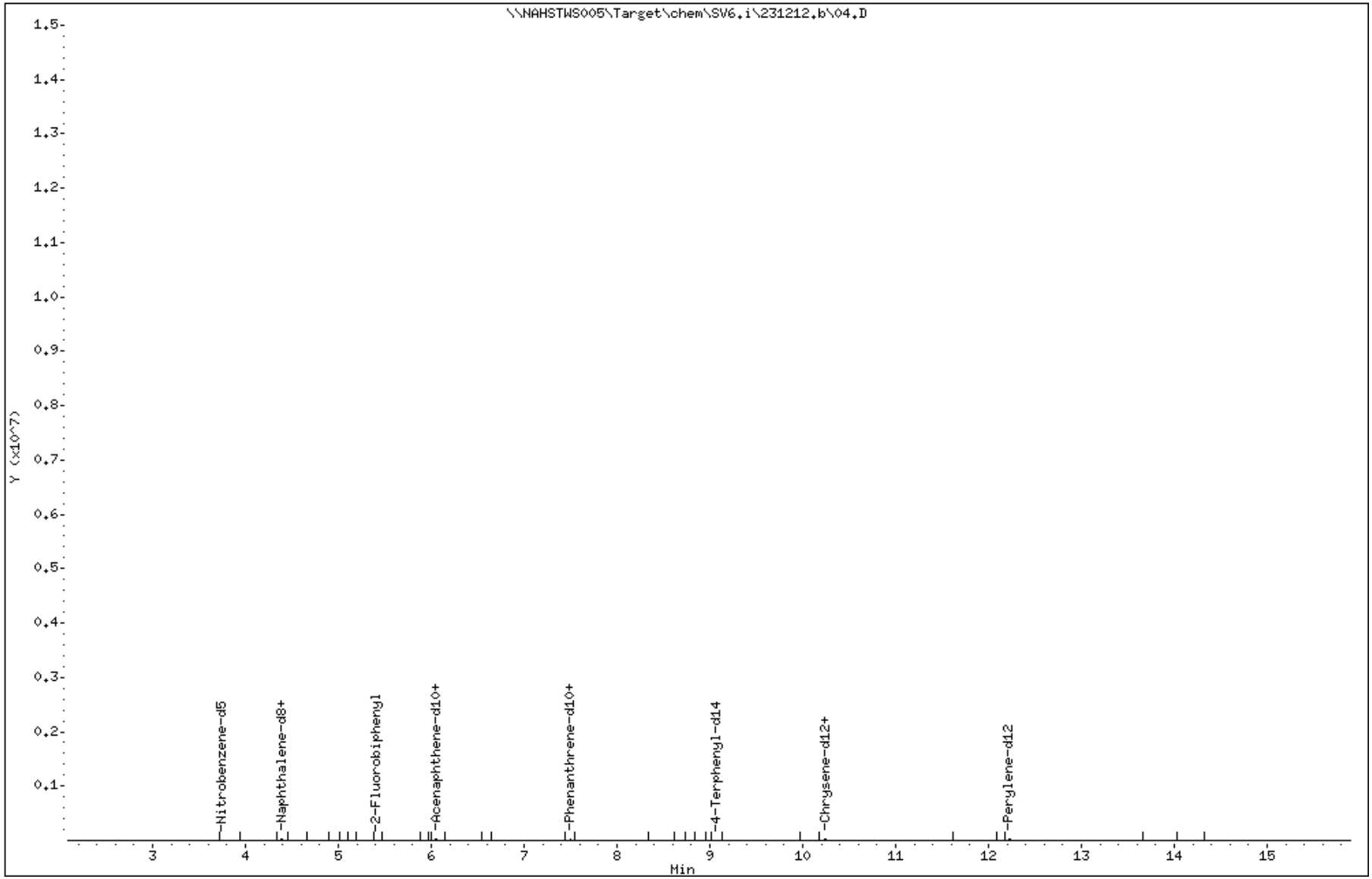
Sample Info: PAHSIM-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



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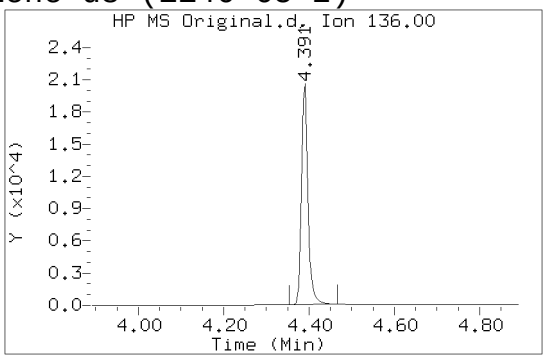
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Naphthalene-d8 (1146-65-2)

Reason Code:

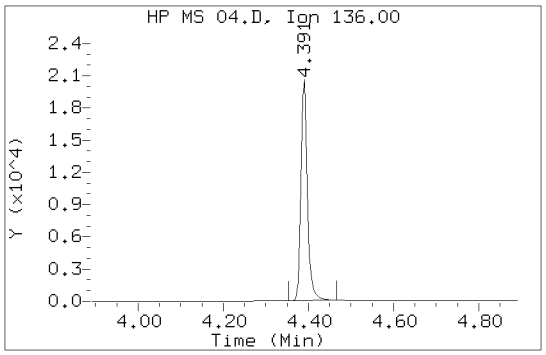
BEFORE

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



AFTER

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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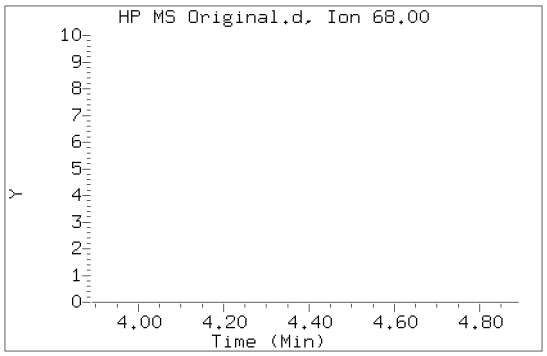
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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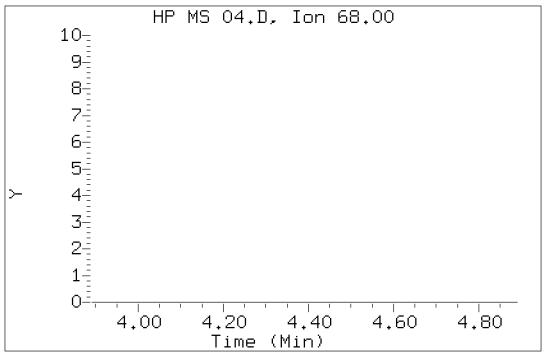
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

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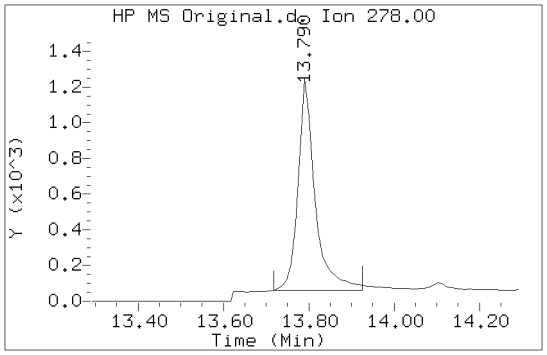
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
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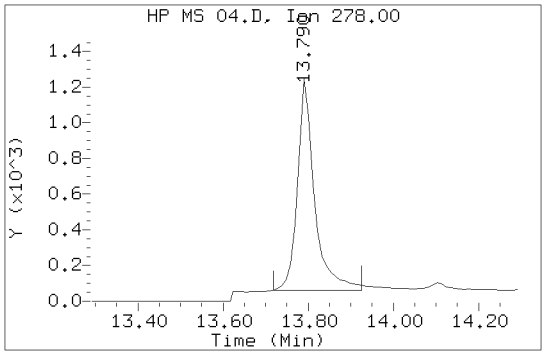
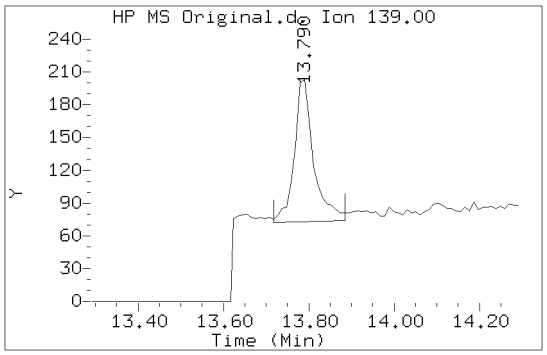
pham



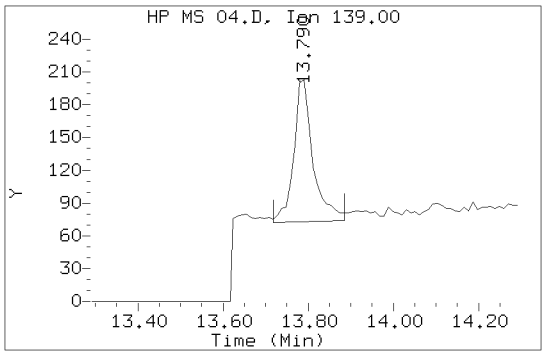
BEFORE

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
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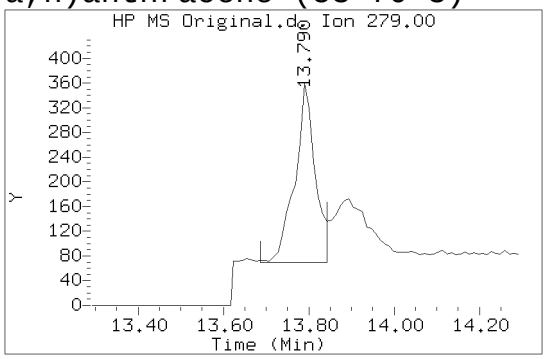
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
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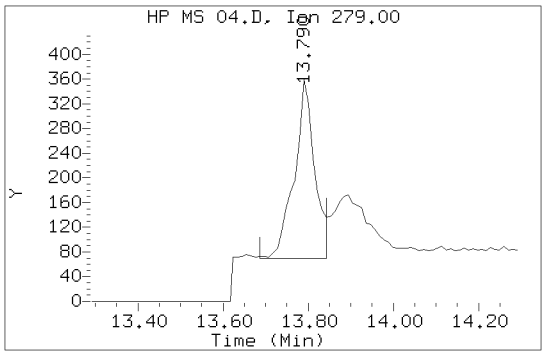

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
276
AREA
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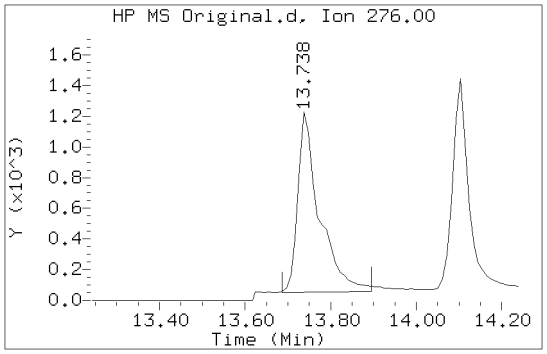
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
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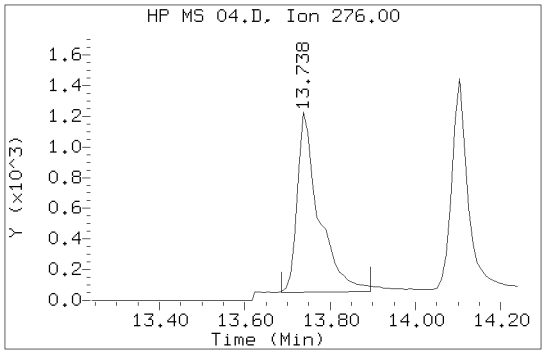

BEFORE

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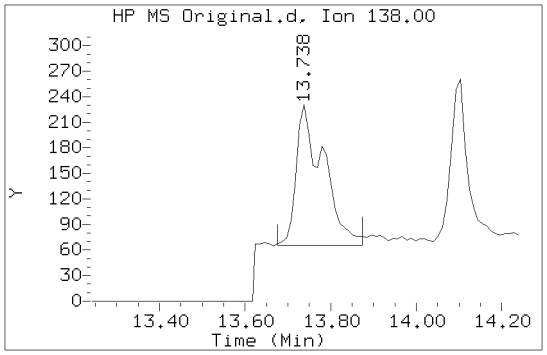
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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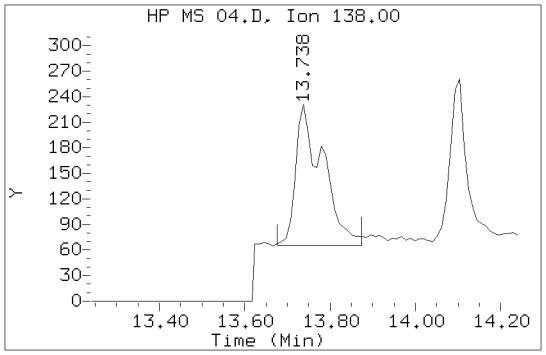
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



BEFORE

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280
18-Dec-2023
10:16
linh
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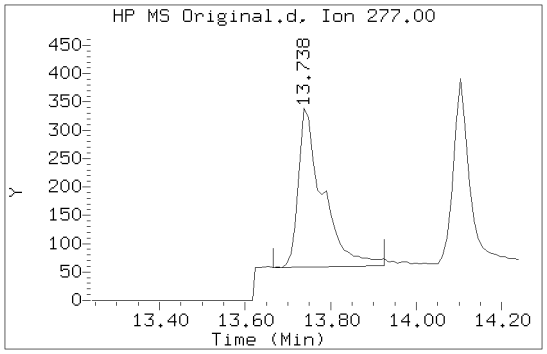

AFTER

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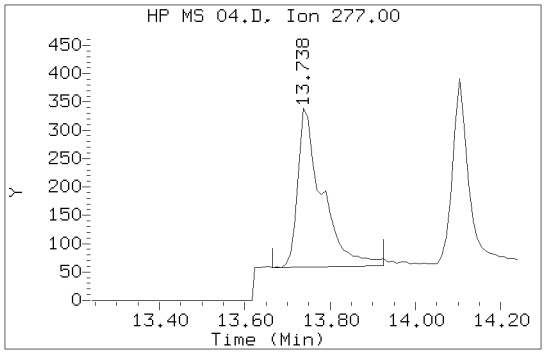
HEIGHT
280
18-Dec-2023
10:16
linh
pham



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
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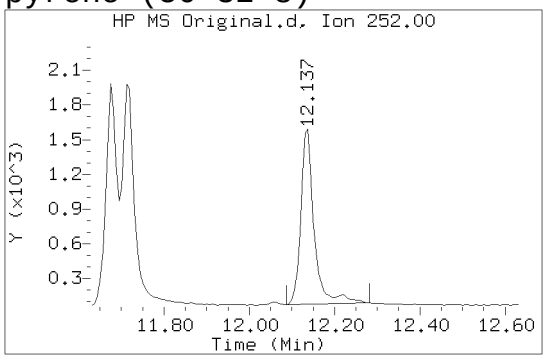
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



AFTER

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HEIGHT
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18-Dec-2023
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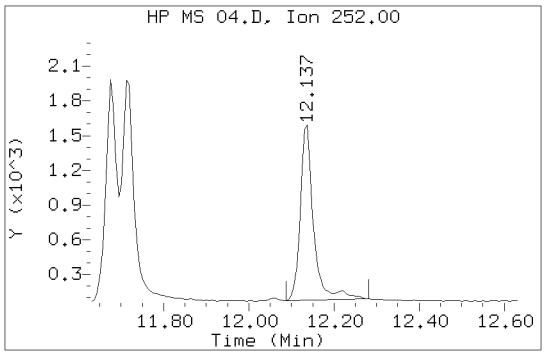

BEFORE

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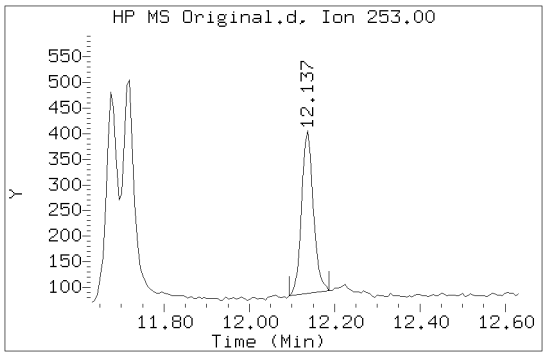
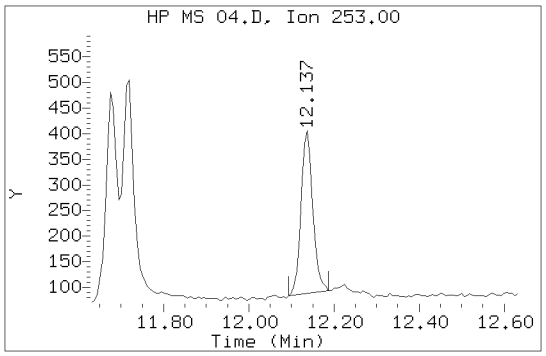
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



BEFORE

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AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
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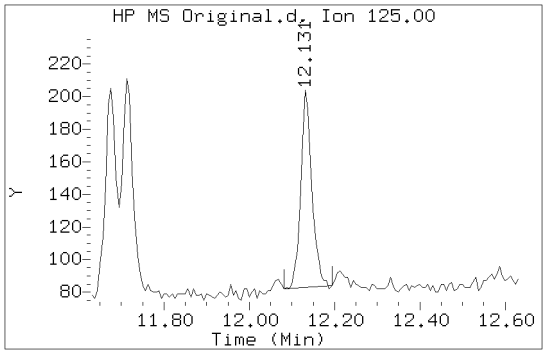
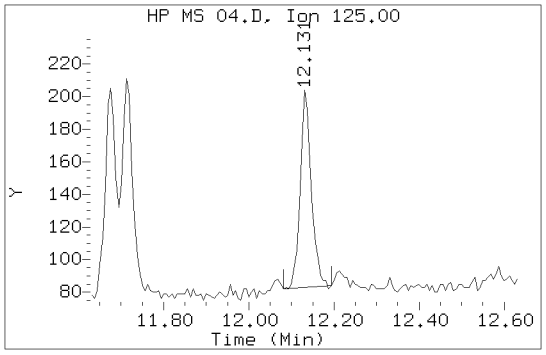


AFTER

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham



Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

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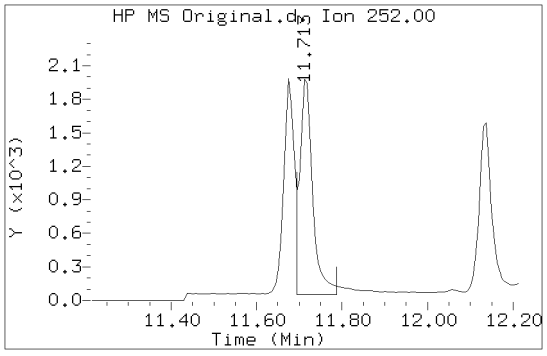
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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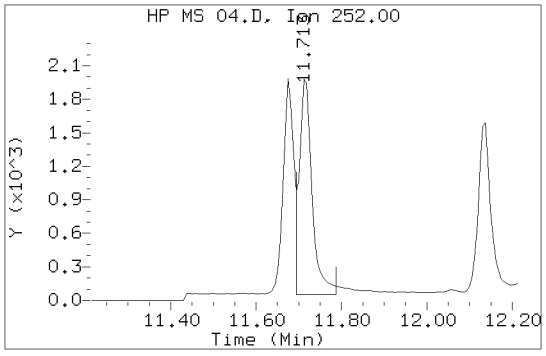
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



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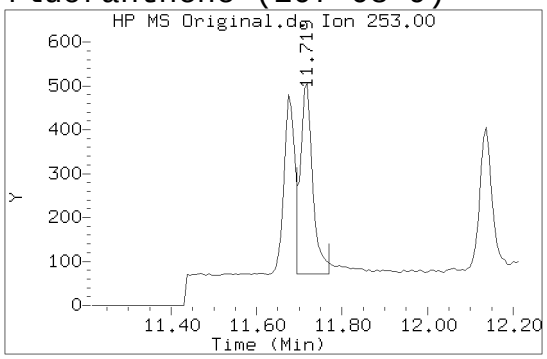
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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904
HEIGHT
434
18-Dec-2023
10:16
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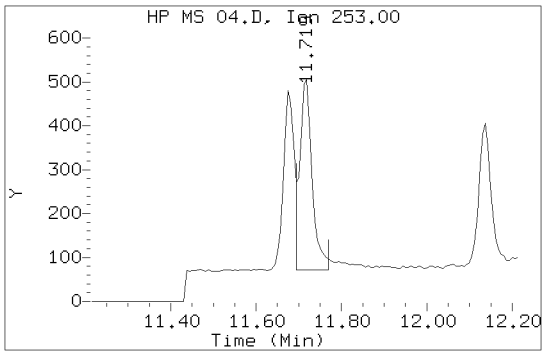

BEFORE

MASS
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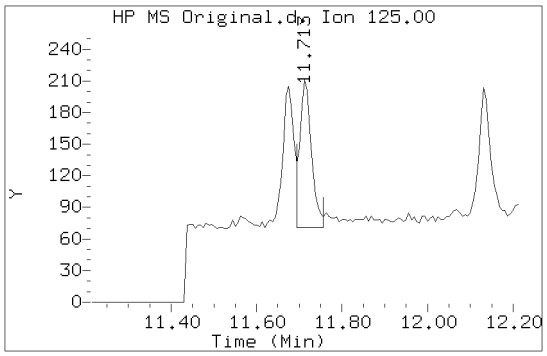
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
275
HEIGHT
140
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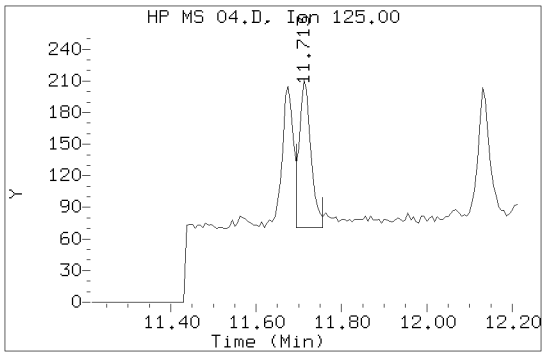
10:16
linh
pham

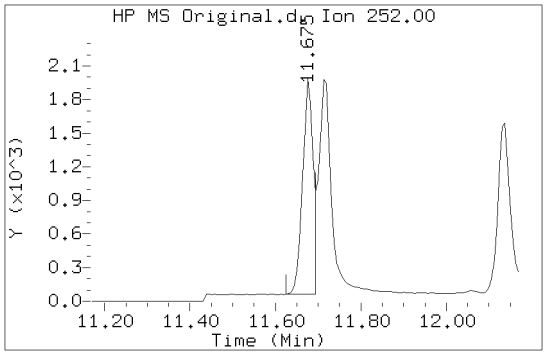


Benzo(b)fluoranthene (205-99-2)

Reason Code:

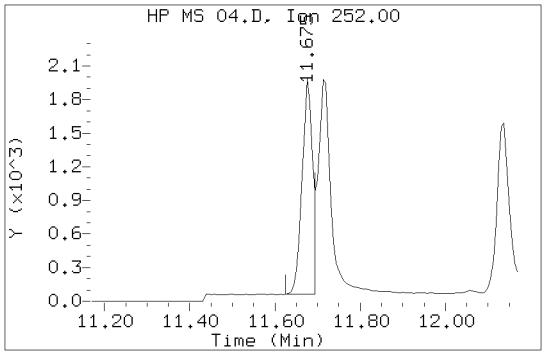
BEFORE

MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



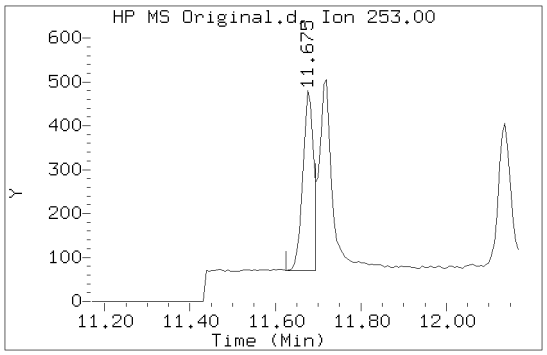
AFTER

MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



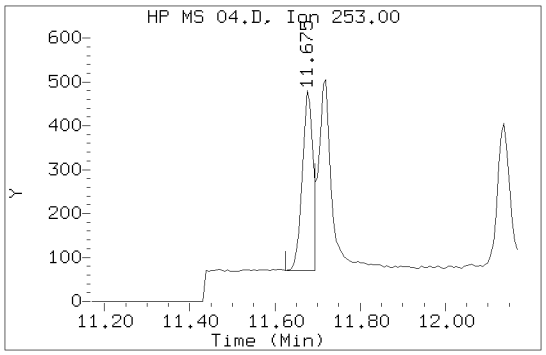
BEFORE

MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



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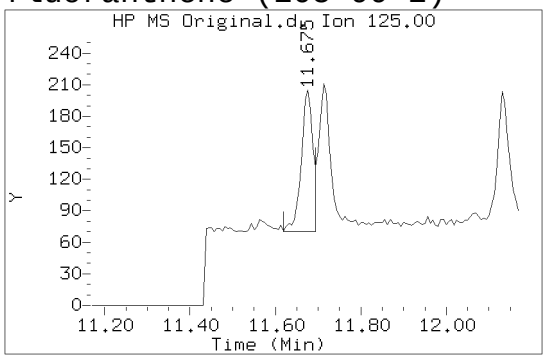
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(b)fluoranthene (205-99-2)

Reason Code:

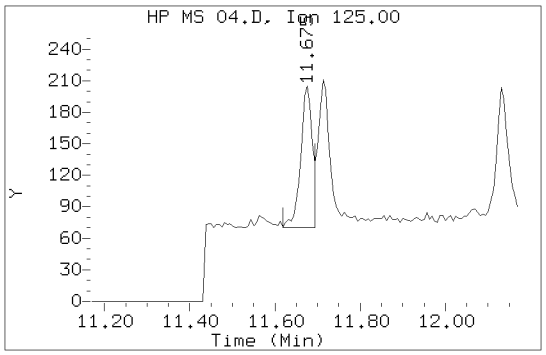
BEFORE

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

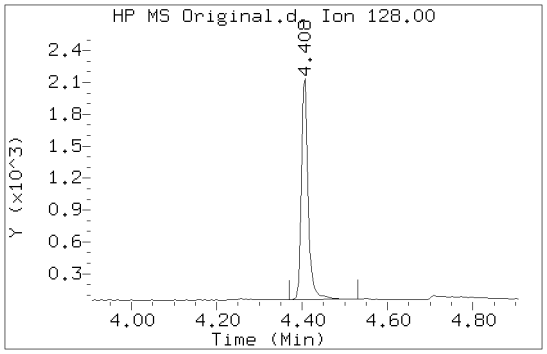


Naphthalene (91-20-3)

Reason Code:

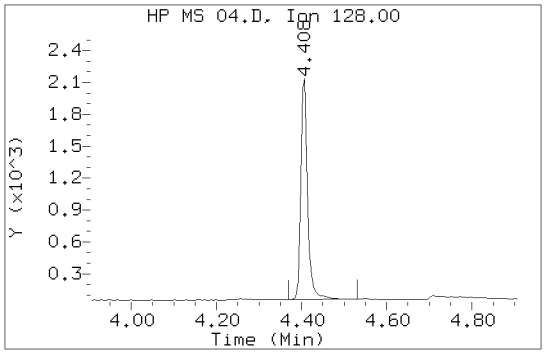
BEFORE

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



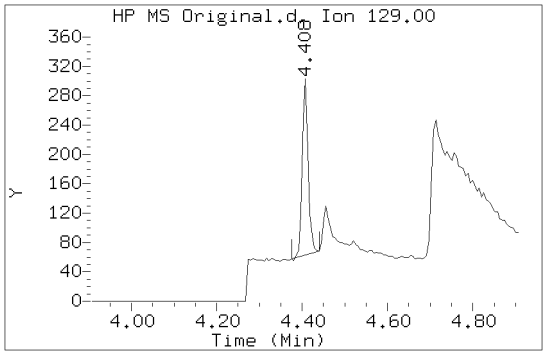
AFTER

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



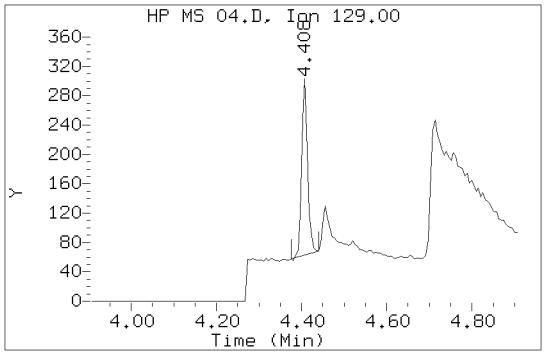
BEFORE

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

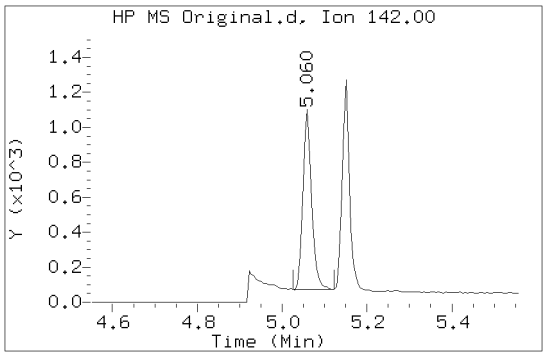


2-Methylnaphthalene (91-57-6)

Reason Code:

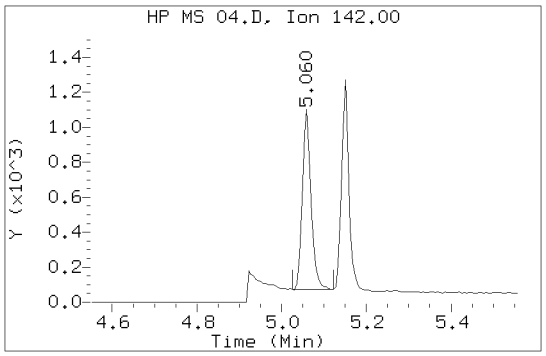
BEFORE

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



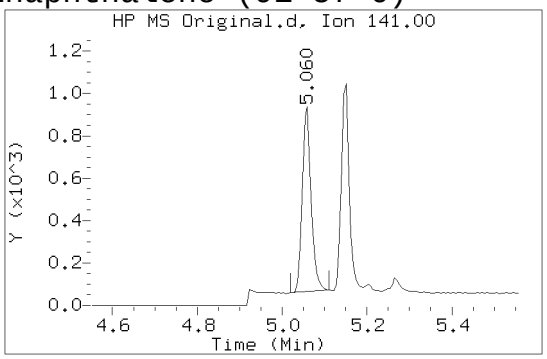
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

2-Methylnaphthalene (91-57-6)

Reason Code:

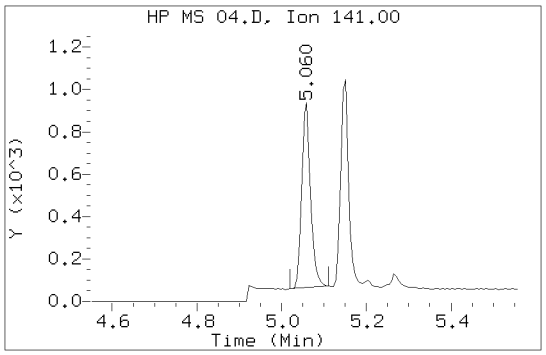
BEFORE

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham

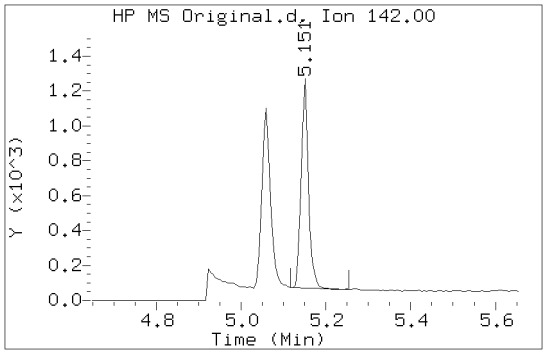


1-Methylnaphthalene (90-12-0)

Reason Code:

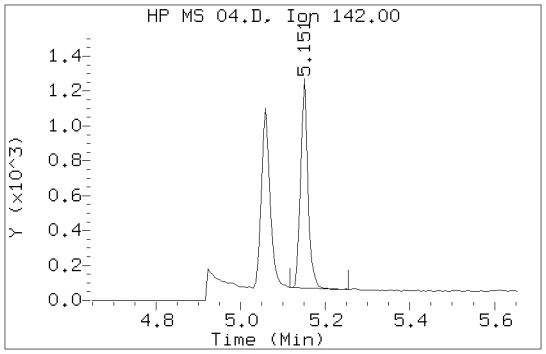
BEFORE

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



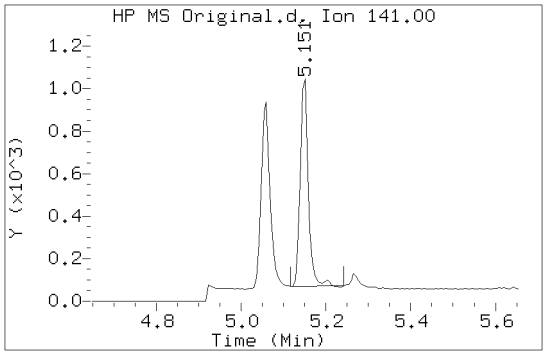
AFTER

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



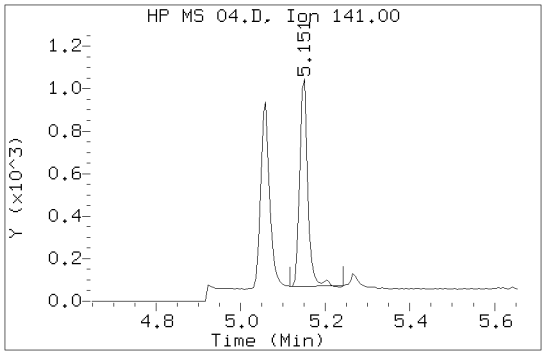
BEFORE

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham

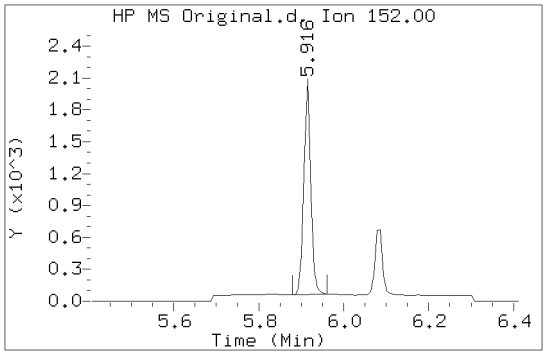


Acenaphthylene (208-96-8)

Reason Code:

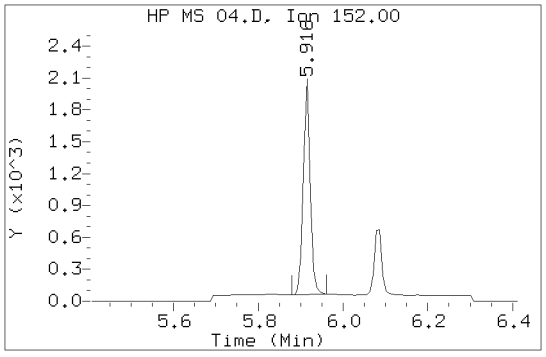
BEFORE

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



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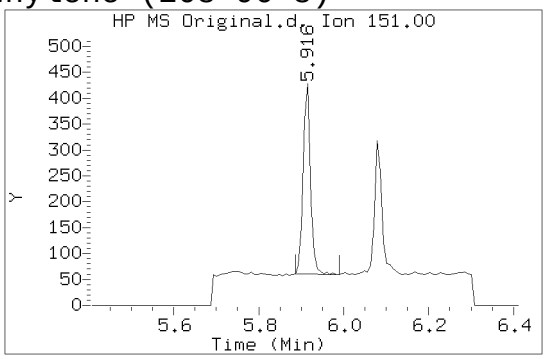
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthylene (208-96-8)

Reason Code:

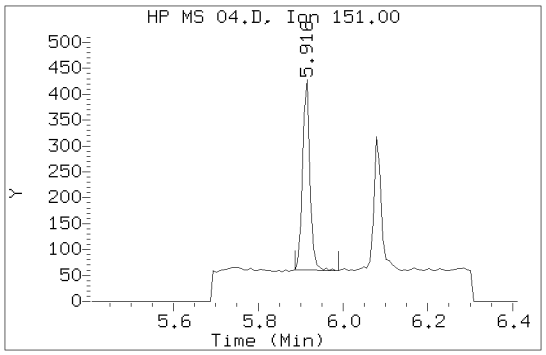
BEFORE

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



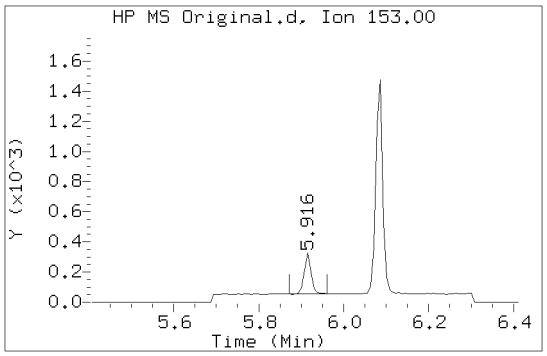
AFTER

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



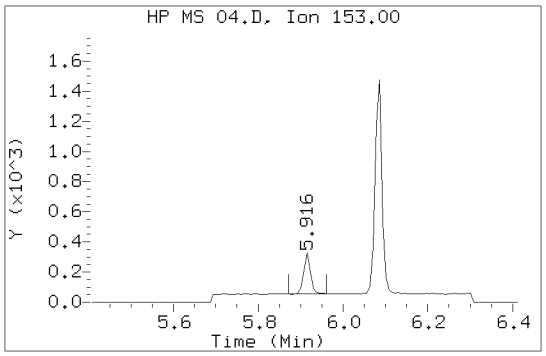
BEFORE

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

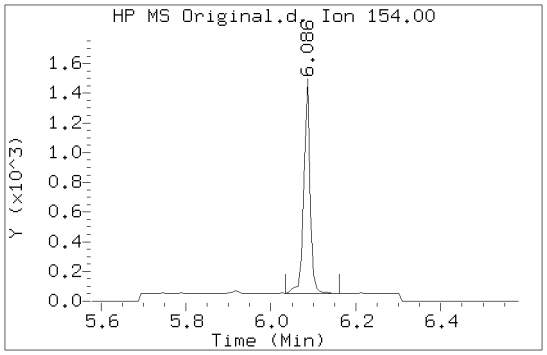


Acenaphthene (83-32-9)

Reason Code:

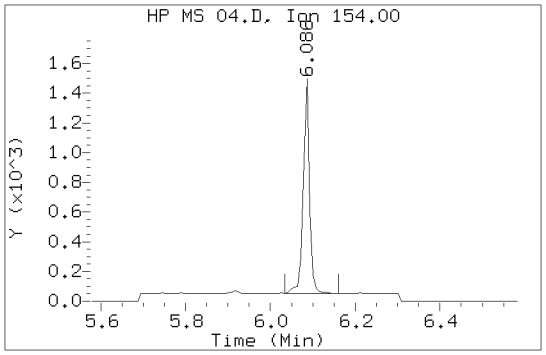
BEFORE

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



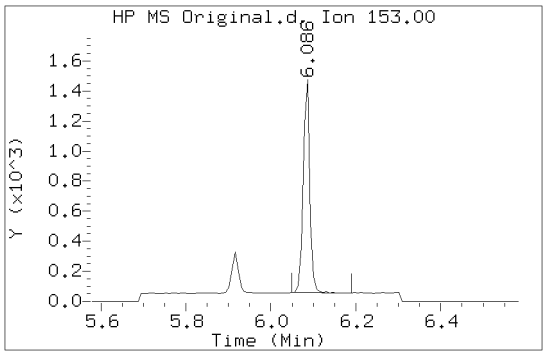
AFTER

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



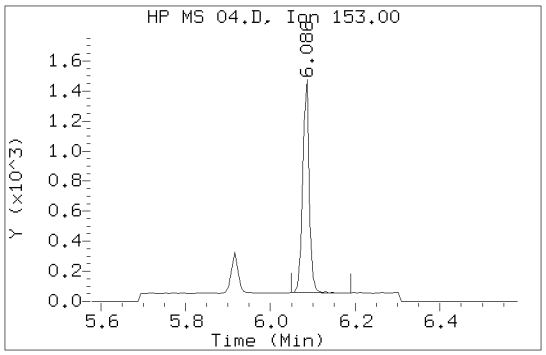
BEFORE

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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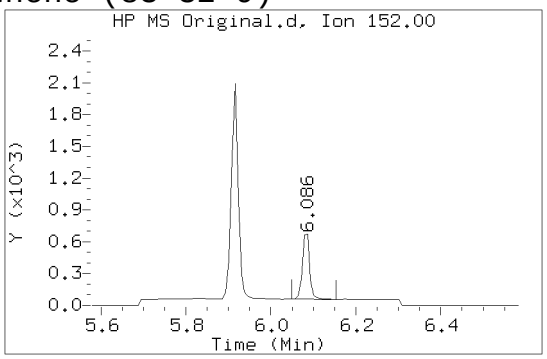
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthene (83-32-9)

Reason Code:

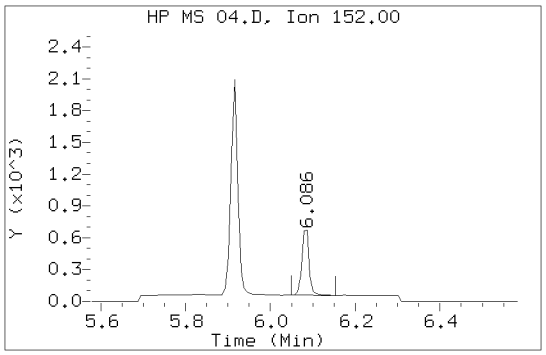
BEFORE

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

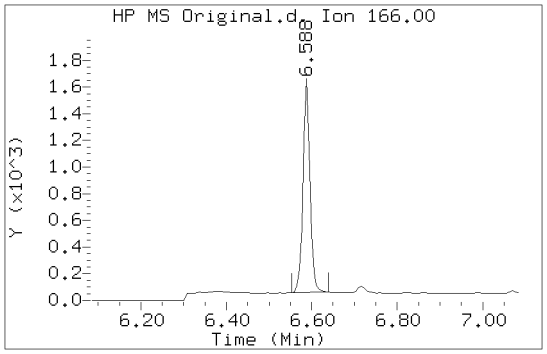


Fluorene (86-73-7)

Reason Code:

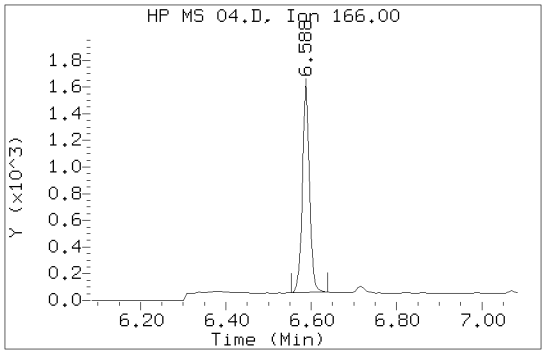
BEFORE

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



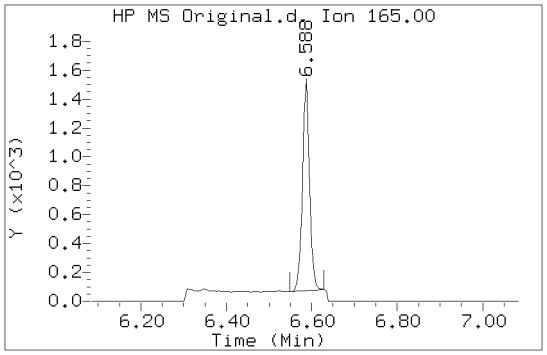
AFTER

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



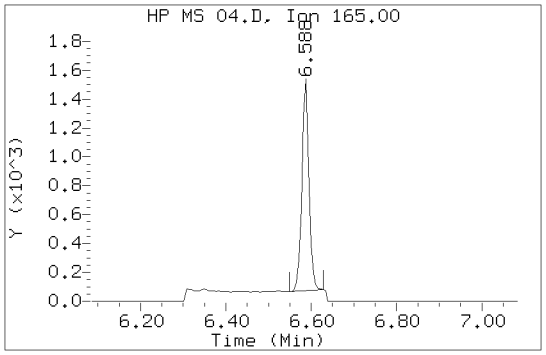
BEFORE

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



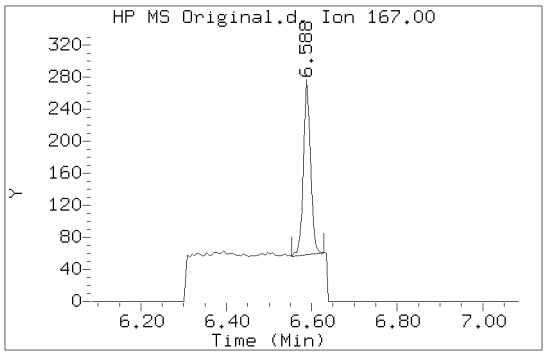
AFTER

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



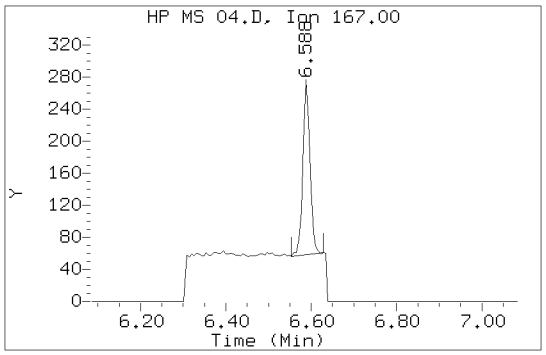
BEFORE

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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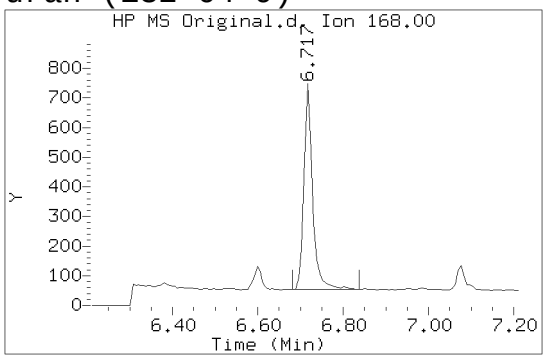
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzofuran (132-64-9)

Reason Code:

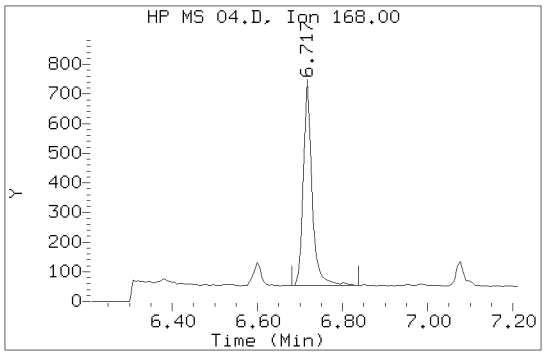
BEFORE

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



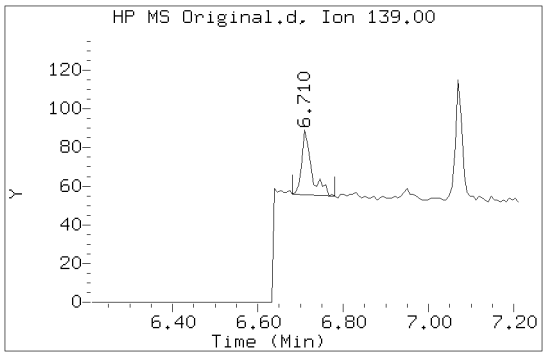
AFTER

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



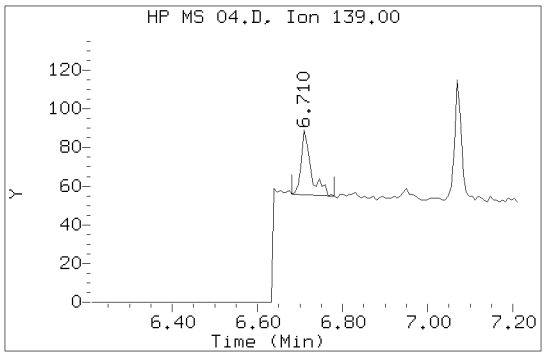
BEFORE

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

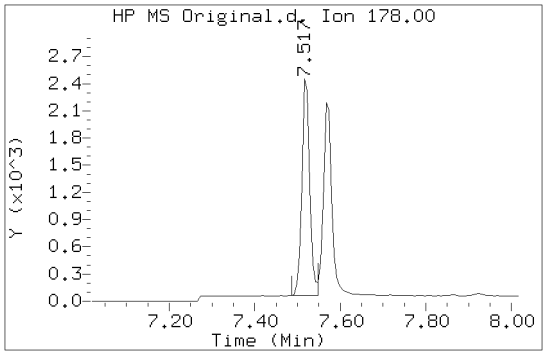


Phenanthrene (85-01-8)

Reason Code:

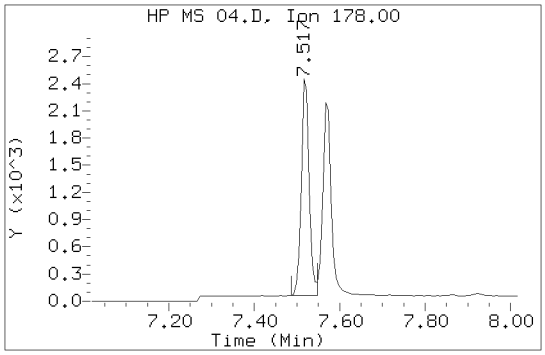
BEFORE

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



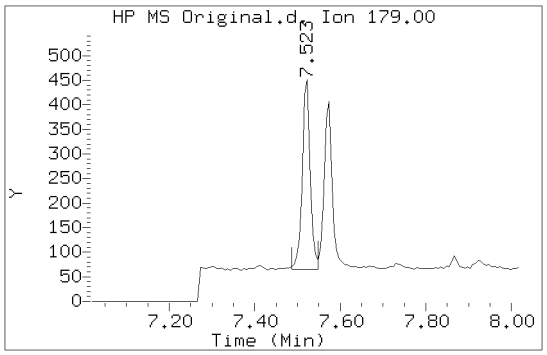
AFTER

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



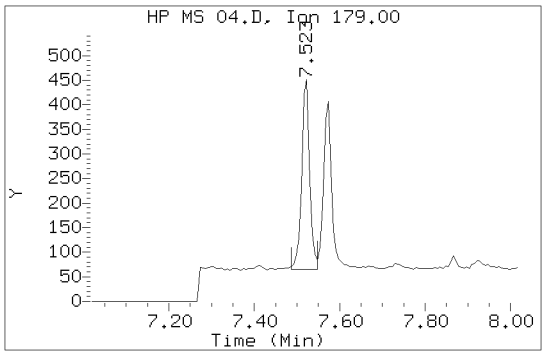
BEFORE

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



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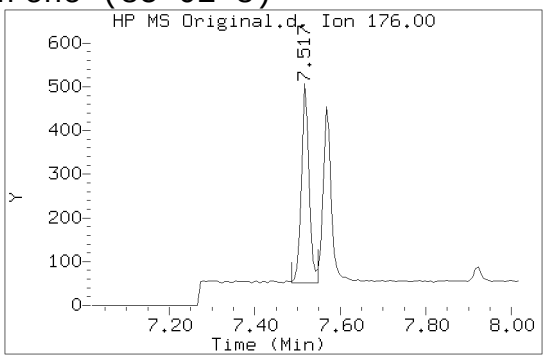
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Phenanthrene (85-01-8)

Reason Code:

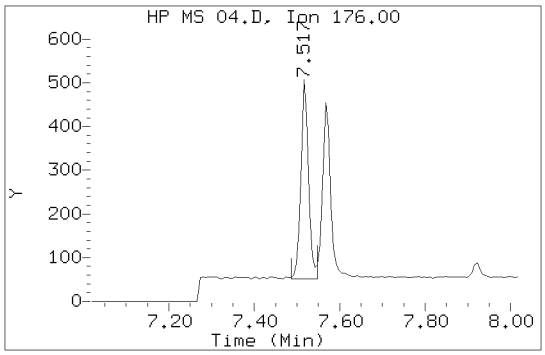
BEFORE

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

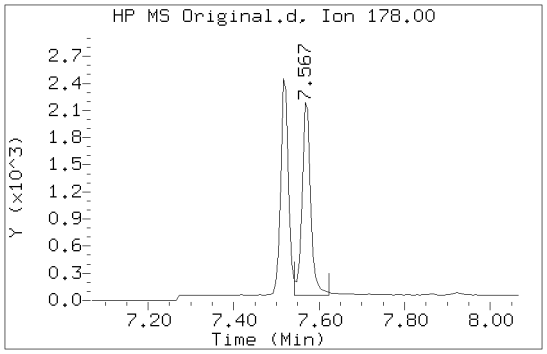


Anthracene (120-12-7)

Reason Code:

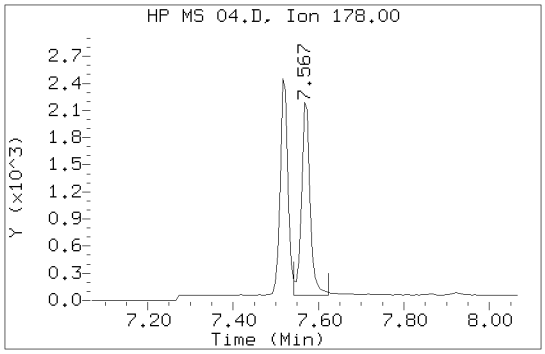
BEFORE

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



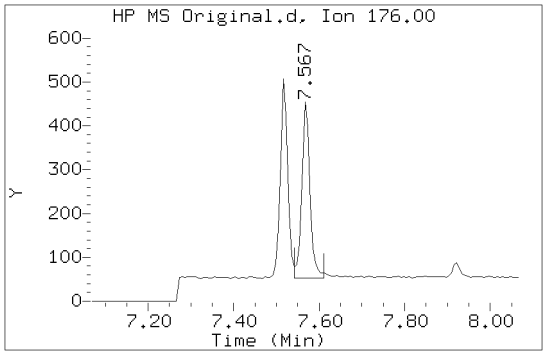
AFTER

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



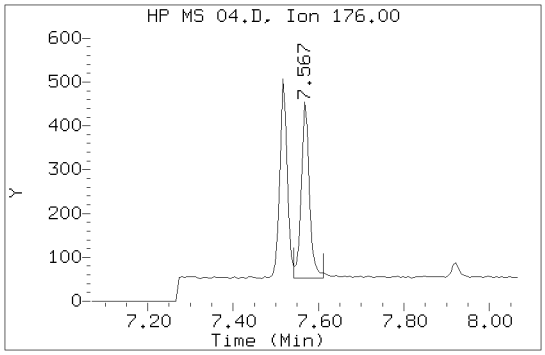
BEFORE

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



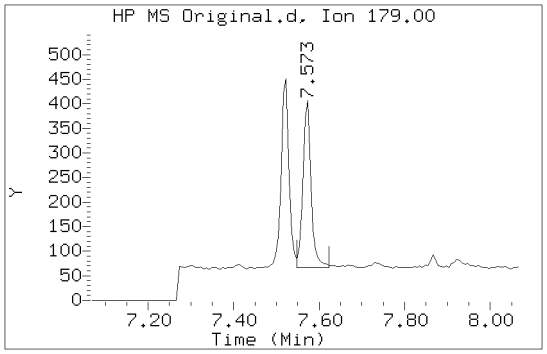
AFTER

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



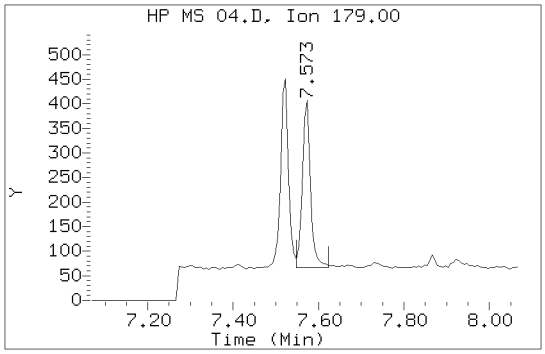
BEFORE

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



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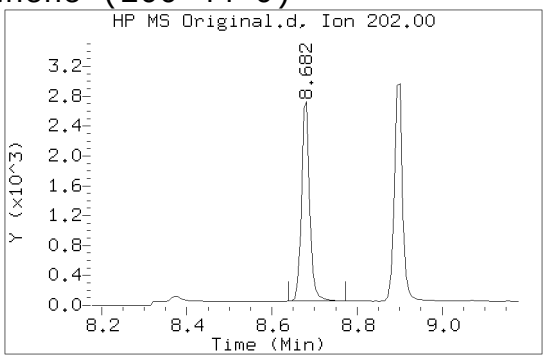
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

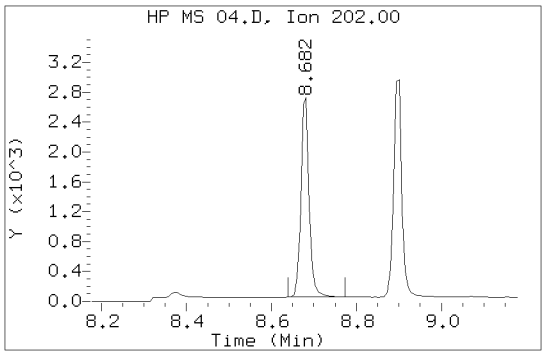
Fluoranthene (206-44-0)

Reason Code:

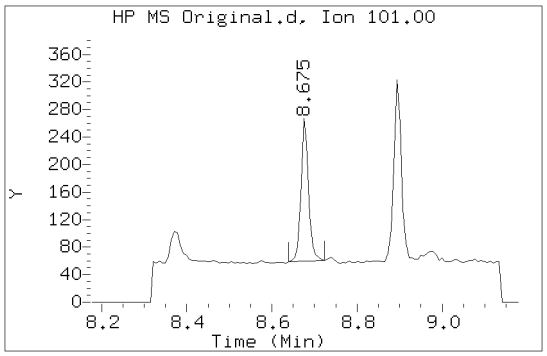
BEFORE
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



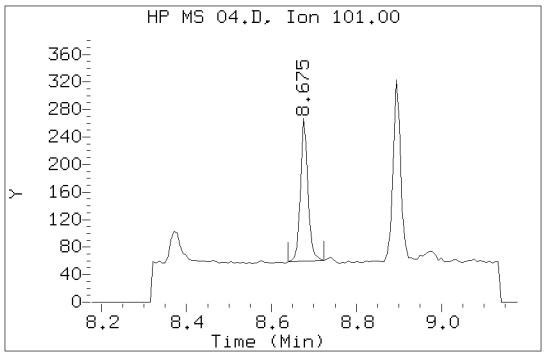
AFTER
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



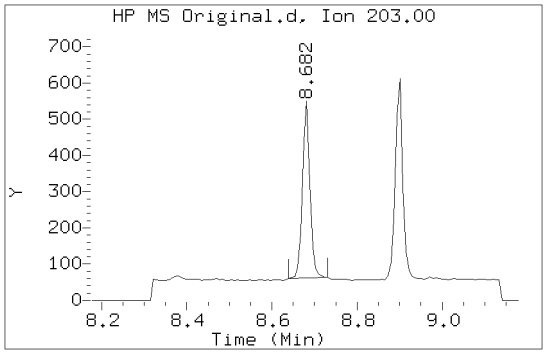
BEFORE
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



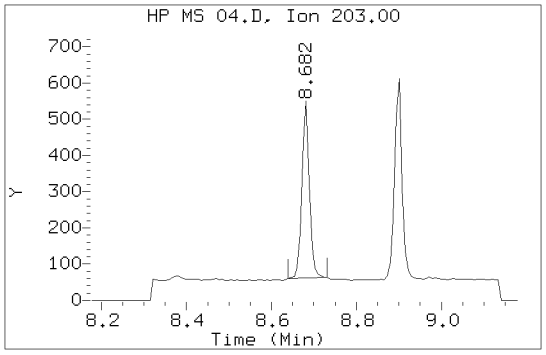
AFTER
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



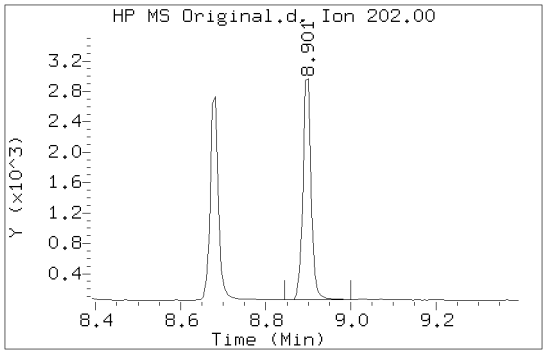
AFTER
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



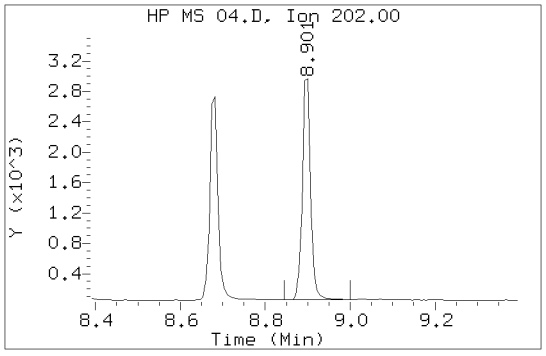
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



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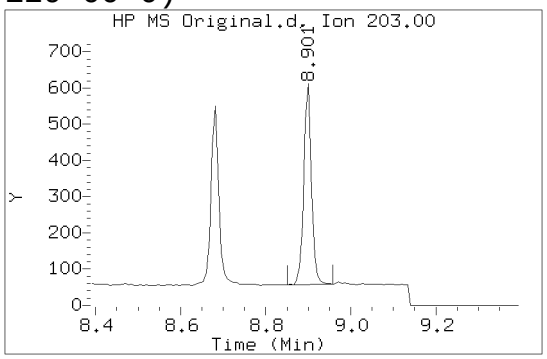
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Pyrene (129-00-0)

Reason Code:

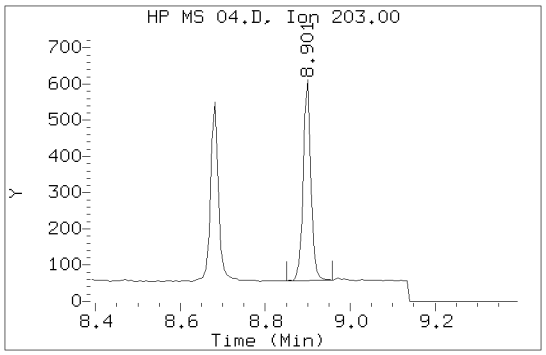
BEFORE

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



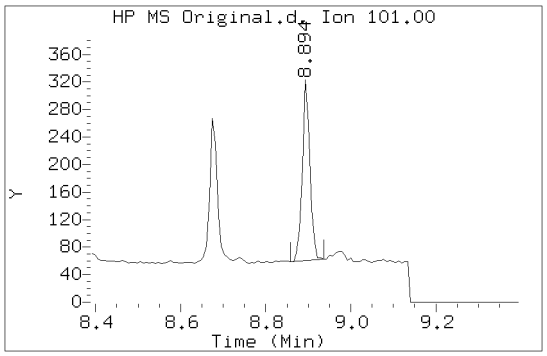
AFTER

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



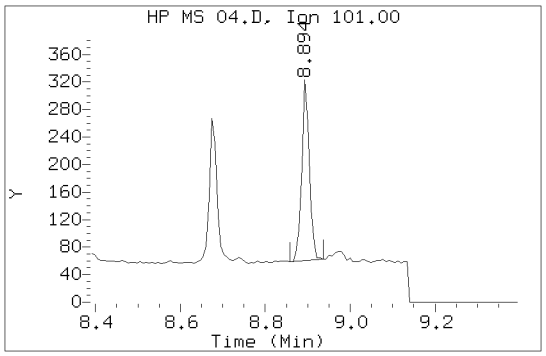
BEFORE

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham

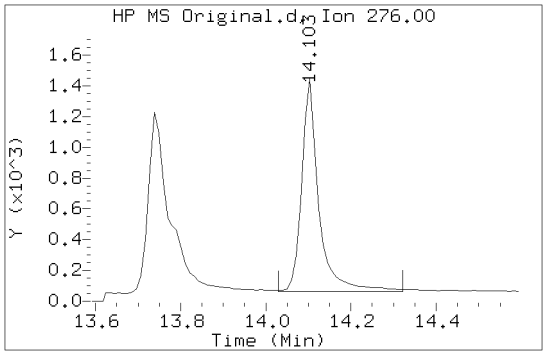


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

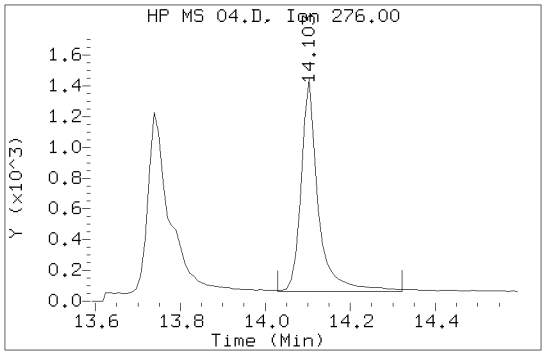
BEFORE

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



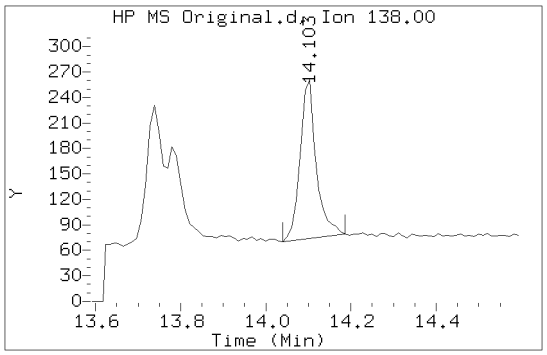
AFTER

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



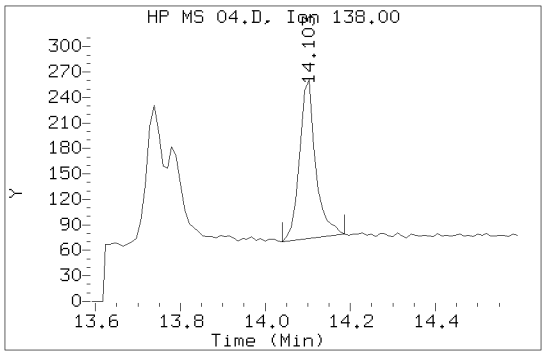
BEFORE

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



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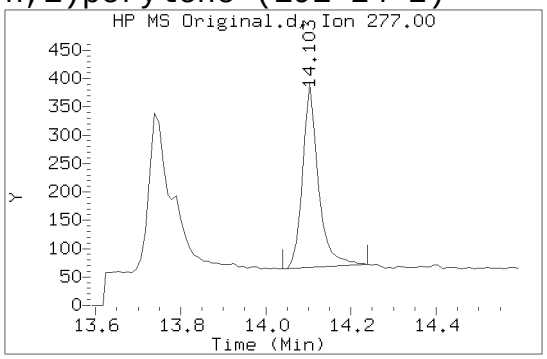
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

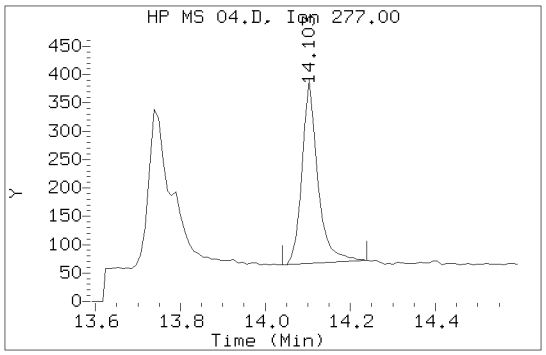
BEFORE

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham

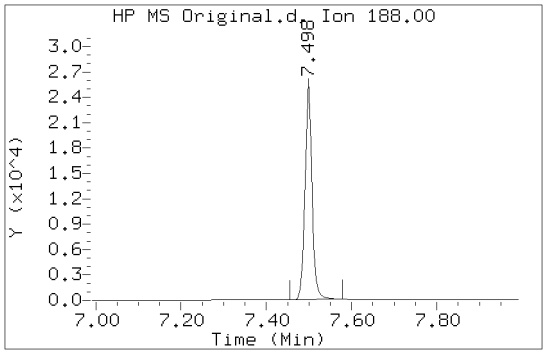


Phenanthrene-d10 (1517-22-2)

Reason Code:

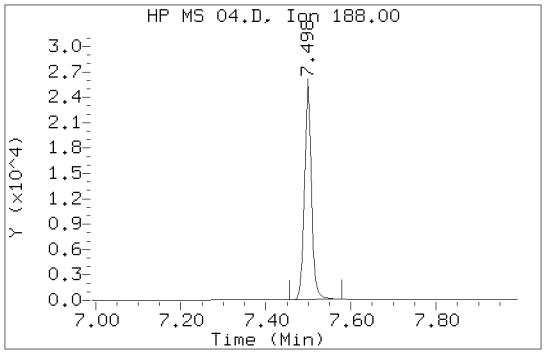
BEFORE

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



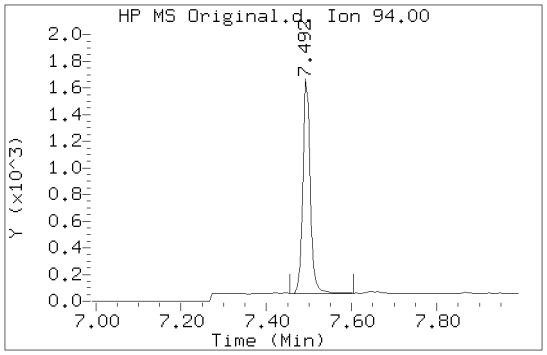
AFTER

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



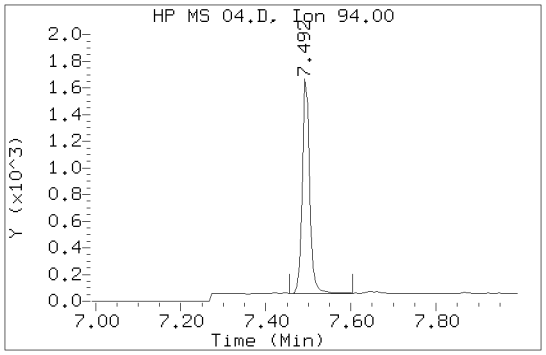
BEFORE

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



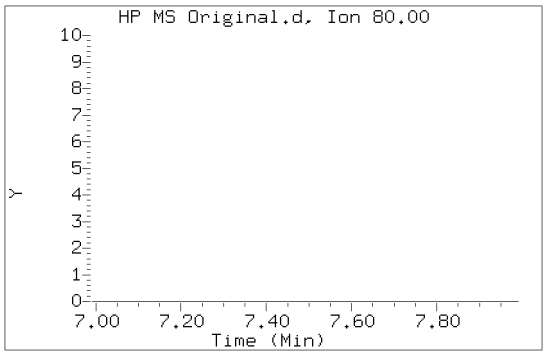
AFTER

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



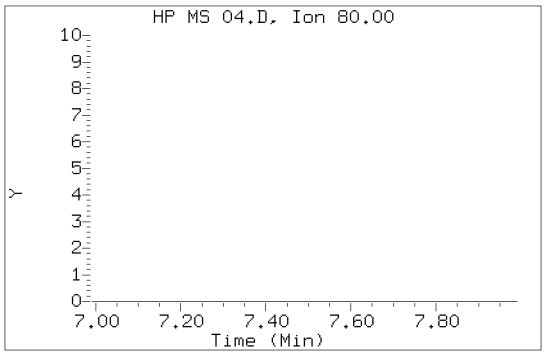
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



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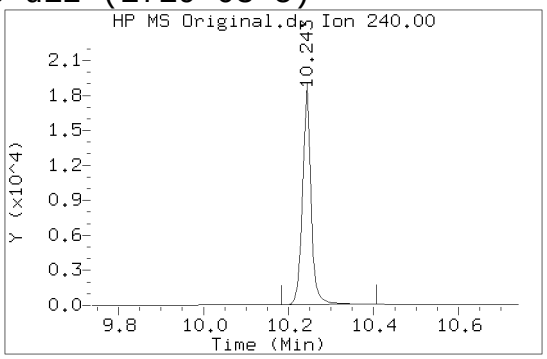
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Chrysene-d12 (1719-03-5)

Reason Code:

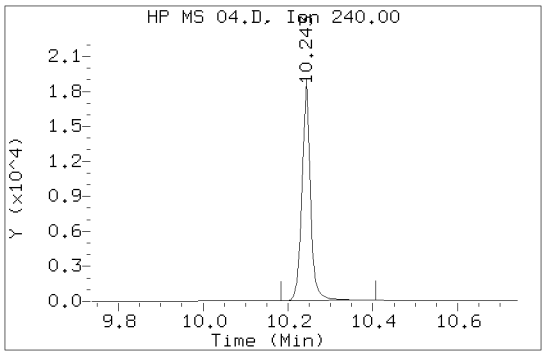
BEFORE

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



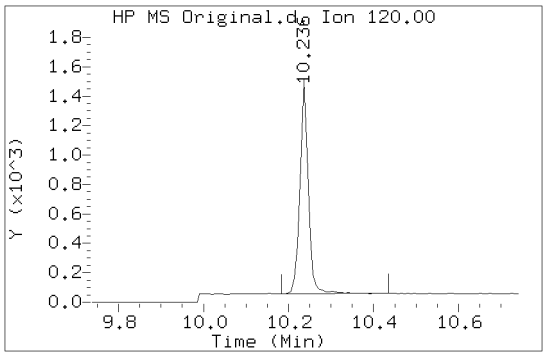
AFTER

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



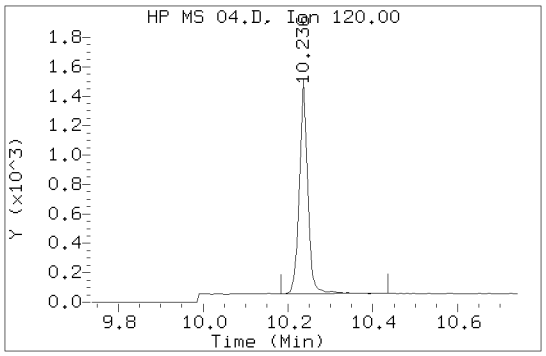
BEFORE

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



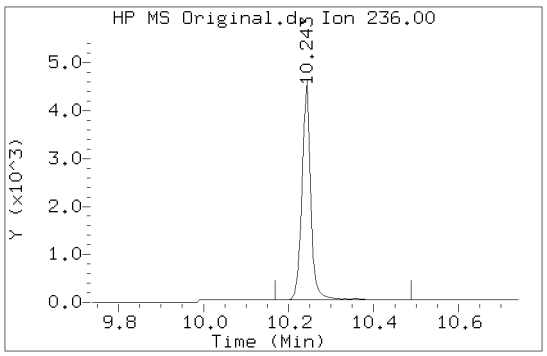
AFTER

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



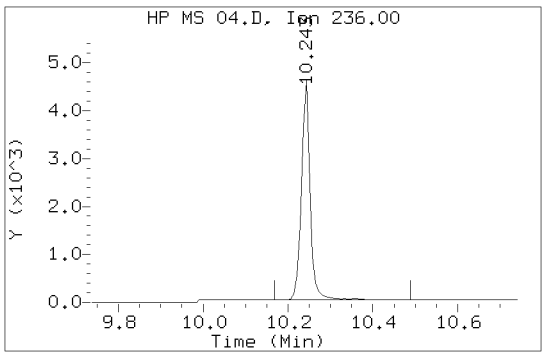
BEFORE

MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham

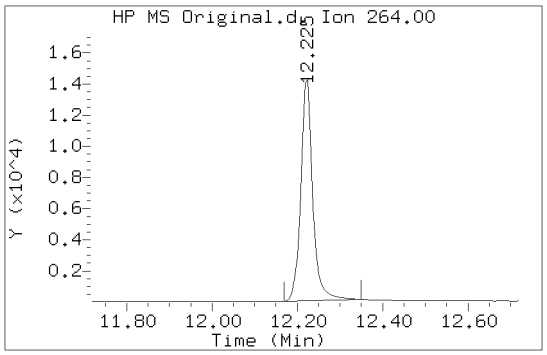


Perylene-d12 (1520-96-3)

Reason Code:

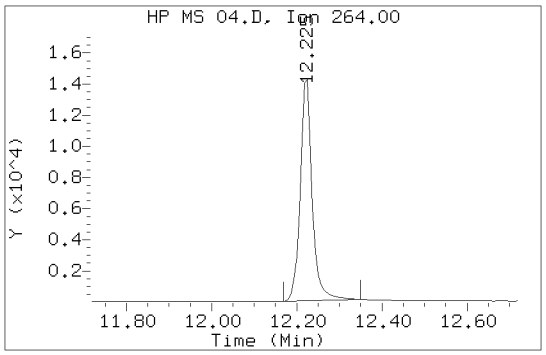
BEFORE

MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Perylene-d12 (1520-96-3)

Reason Code:

BEFORE

MASS
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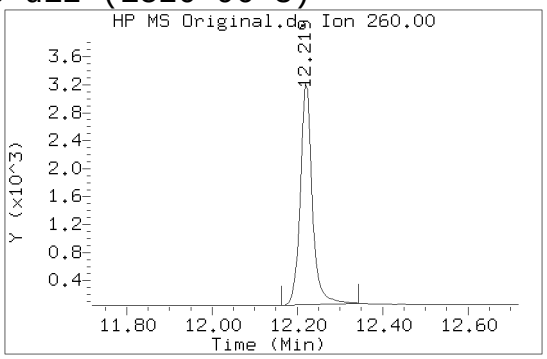
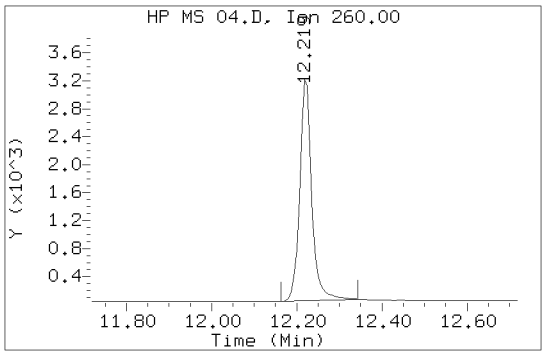
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



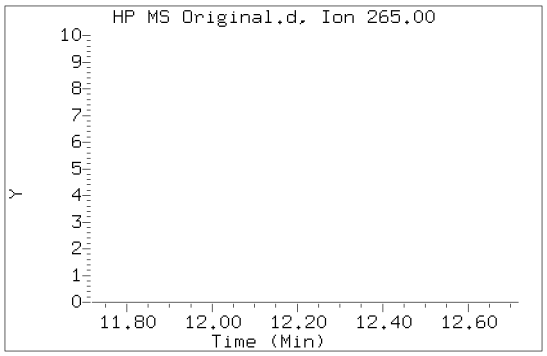
AFTER

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



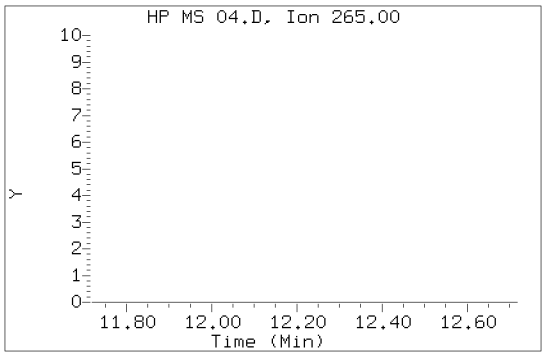
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

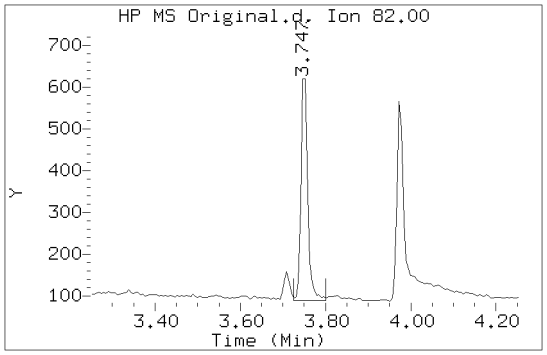


Nitrobenzene-d5 (4165-60-0)

Reason Code:

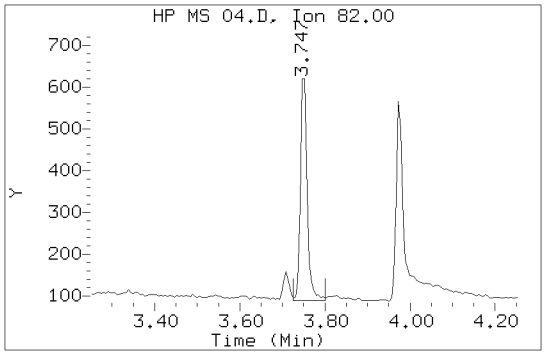
BEFORE

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



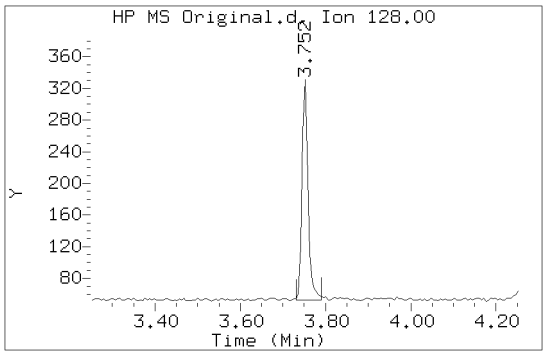
AFTER

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



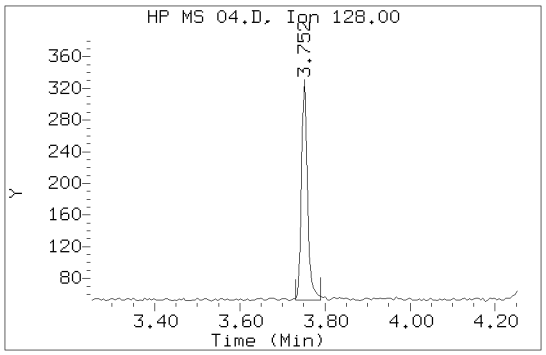
BEFORE

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



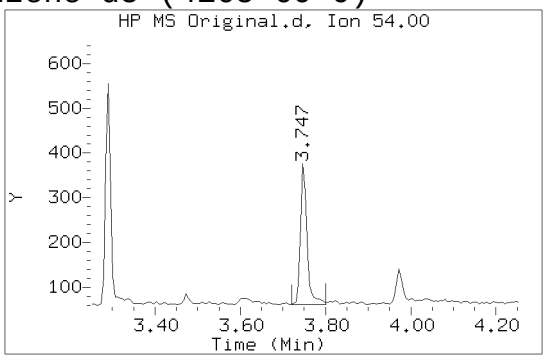
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Nitrobenzene-d5 (4165-60-0)

Reason Code:

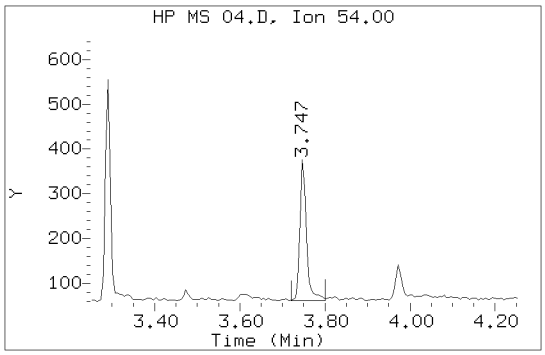
BEFORE

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham

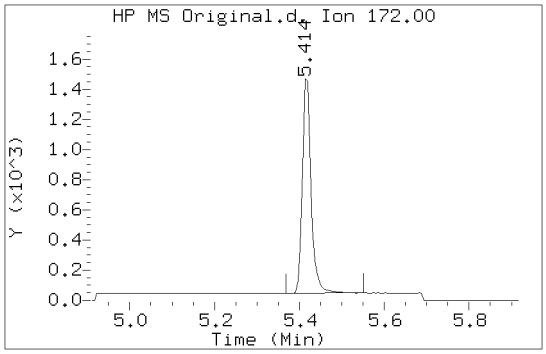


2-Fluorobiphenyl (321-60-8)

Reason Code:

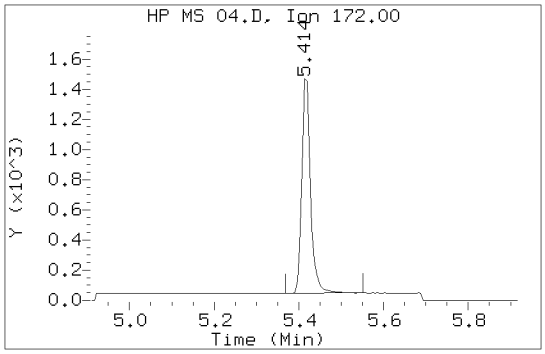
BEFORE

MASS
172
AREA
2011
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



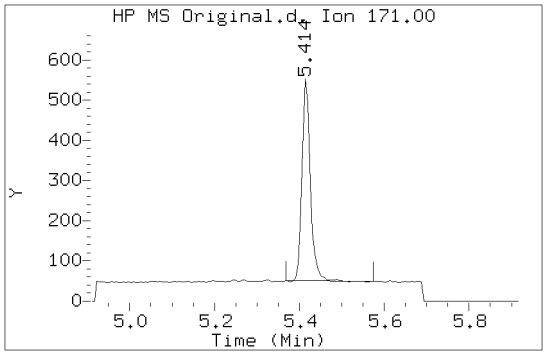
AFTER

MASS
172
AREA
2011
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



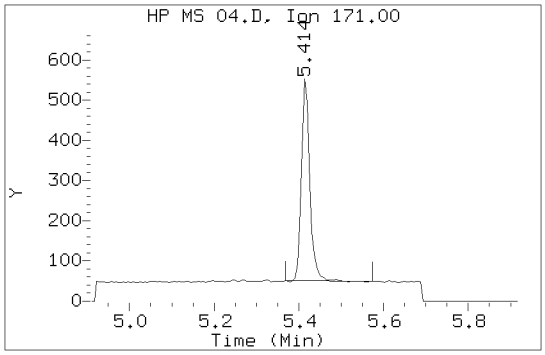
BEFORE

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
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)	AMOUNTS 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

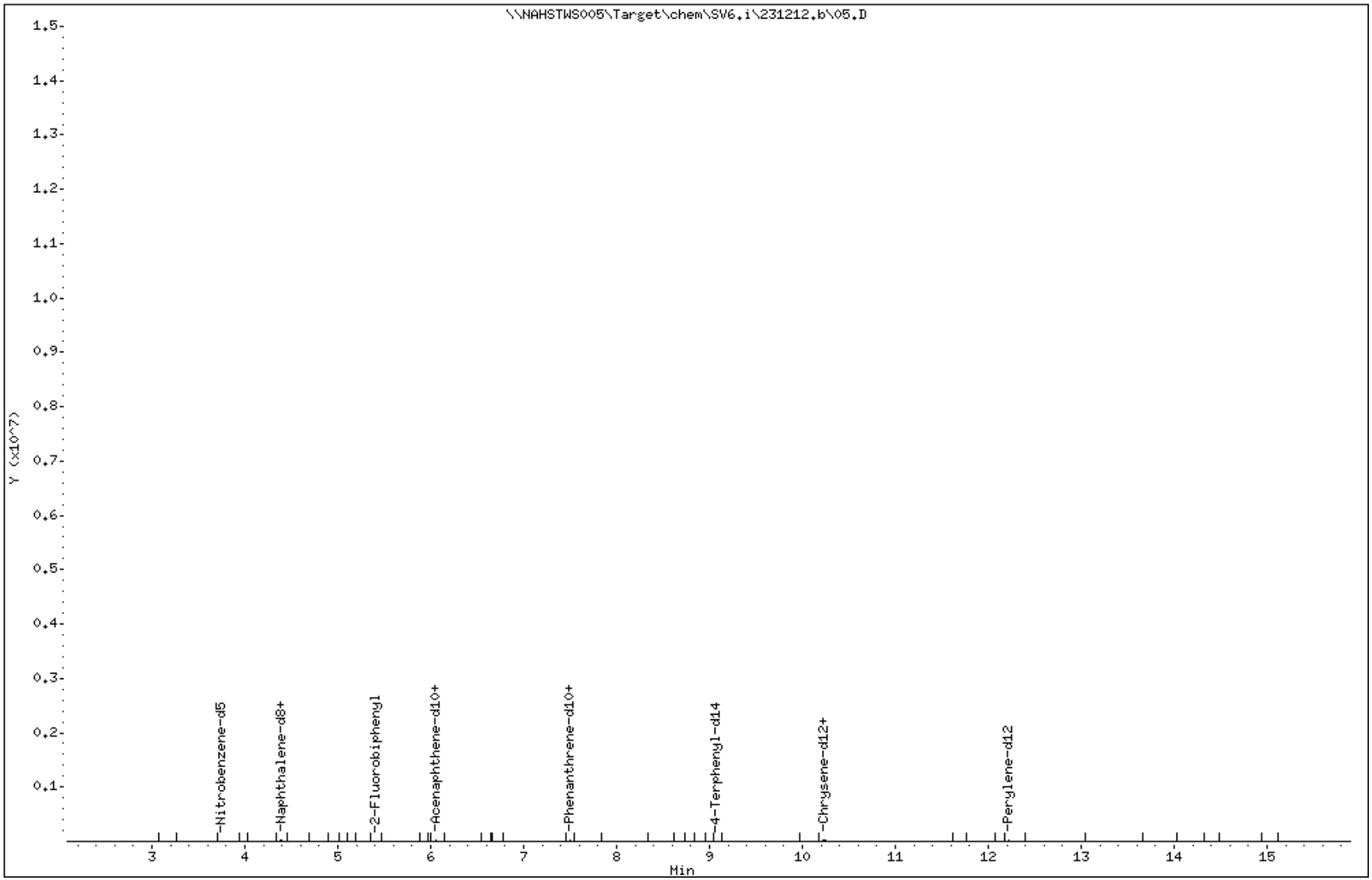
Sample Info: PAHSIM-0.025

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

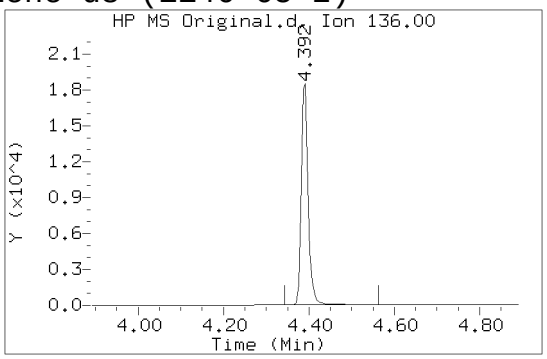
Column diameter: 0.28



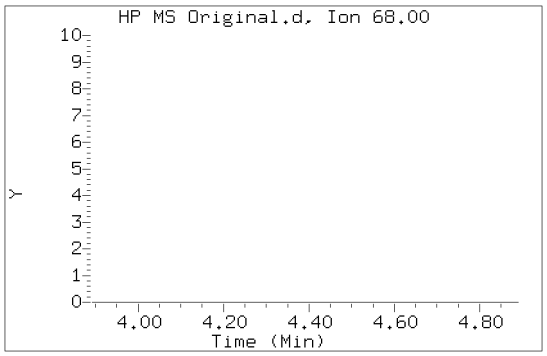
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene-d8 (1146-65-2)

BEFORE
MASS
136
AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham

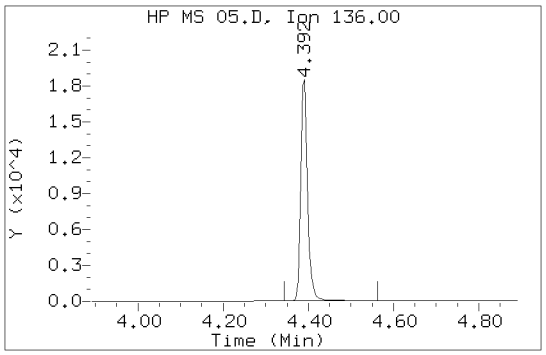


BEFORE
MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

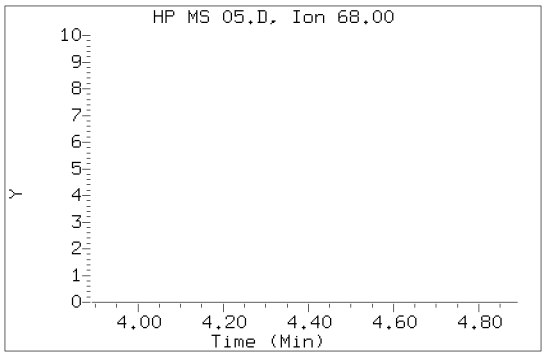


Reason Code:

AFTER
MASS
136
AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham

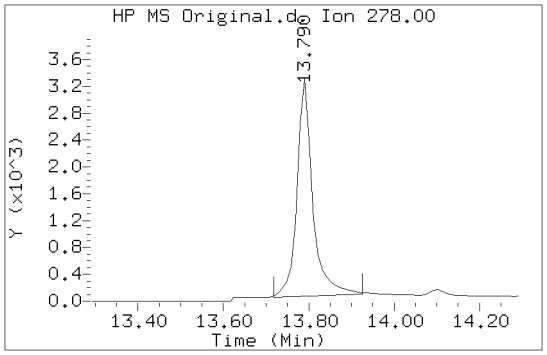


AFTER
MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

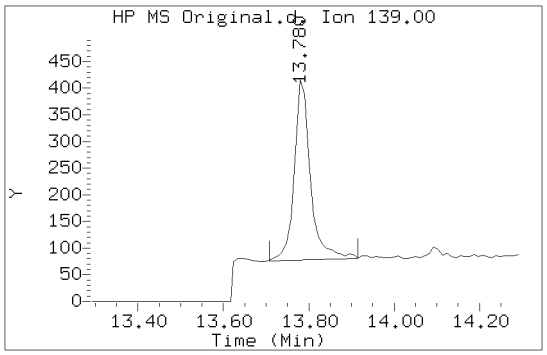


Dibenzo(a,h)anthracene (53-70-3)

BEFORE
MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham

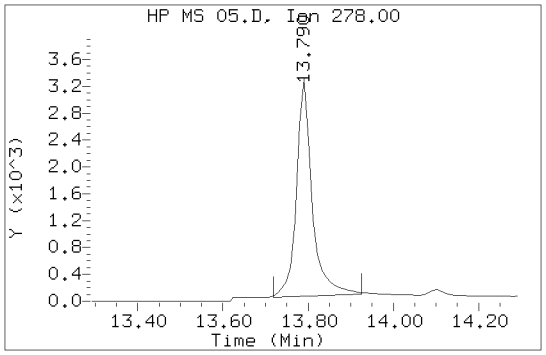


BEFORE
MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham

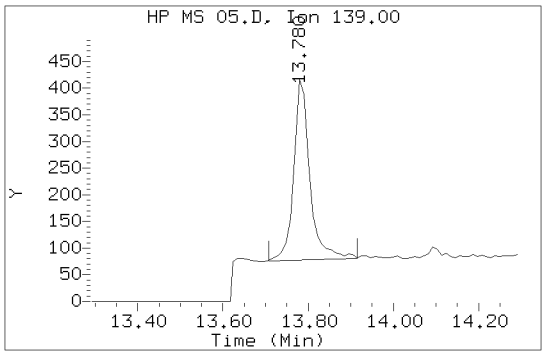


Reason Code:

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



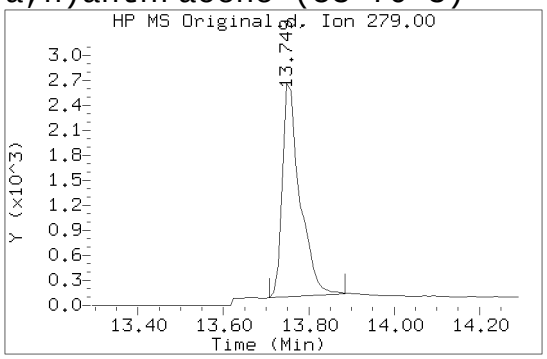
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

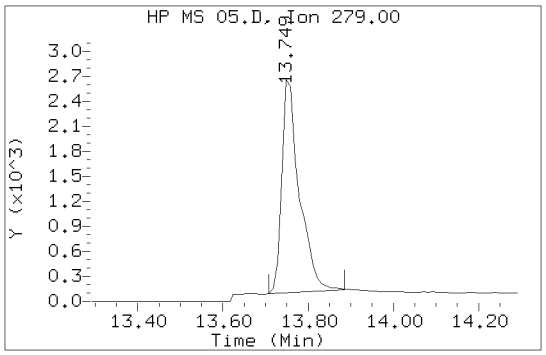
BEFORE

MASS
279
AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham

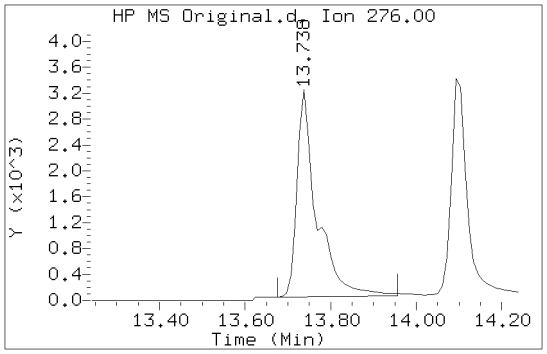


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

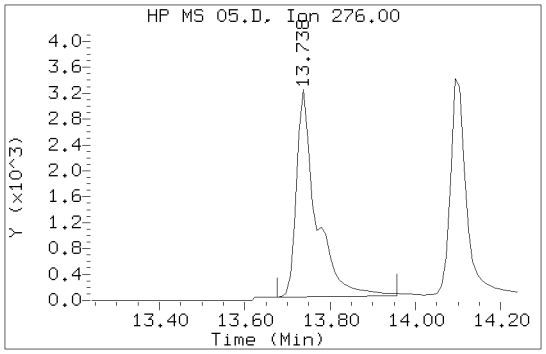
BEFORE

MASS
276
AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
linh
pham



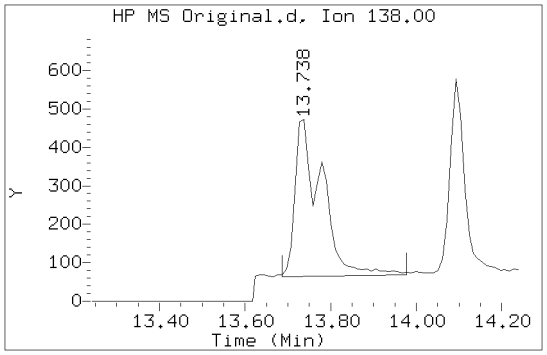
AFTER

MASS
276
AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
linh
pham



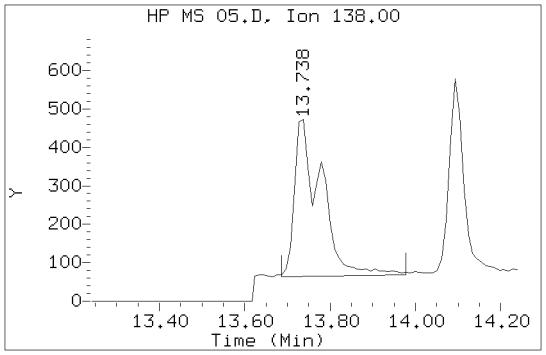
BEFORE

MASS
138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
277
AREA
2831
HEIGHT
817
18-Dec-2023
10:16
linh
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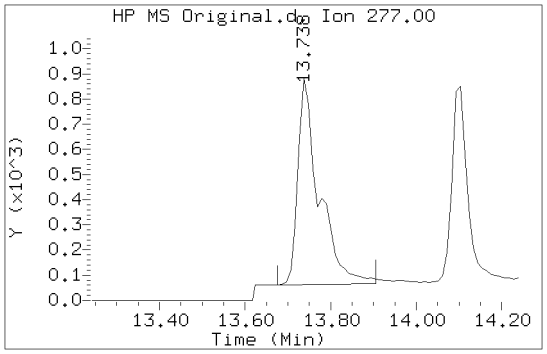
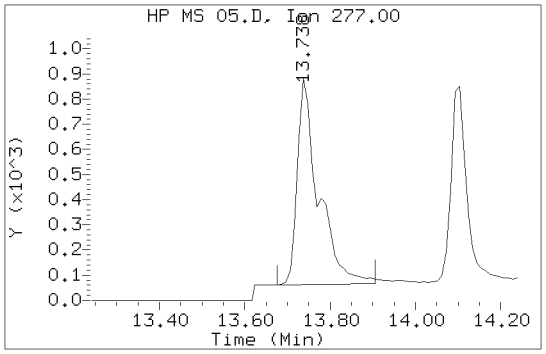


AFTER

MASS
277
AREA
2831
HEIGHT
817
18-Dec-2023
10:16
linh
pham



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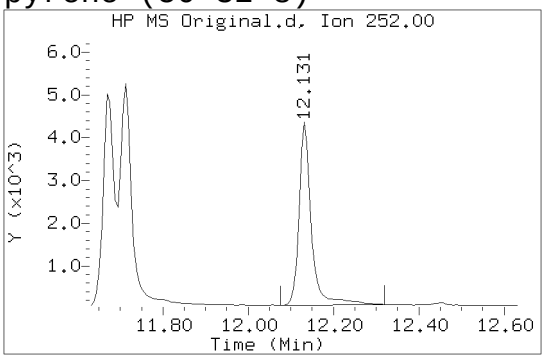
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

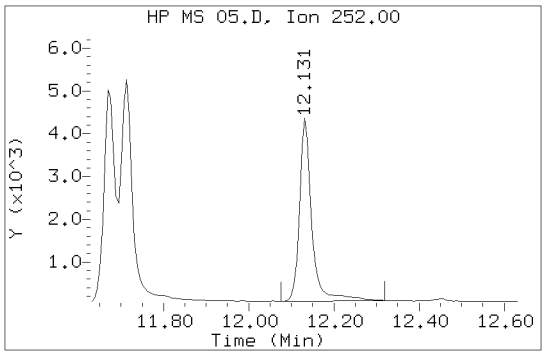
Benzo(a)pyrene (50-32-8)

Reason Code:

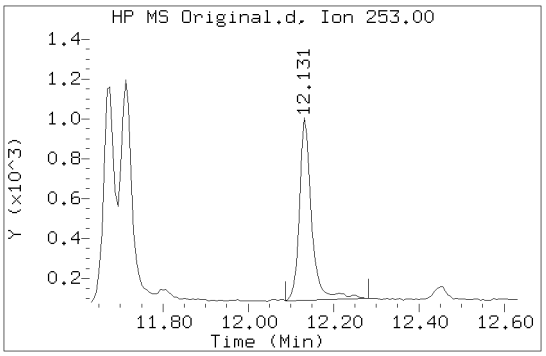
BEFORE
MASS
252
AREA
8585
HEIGHT
4276
18-Dec-2023
10:16
linh
pham



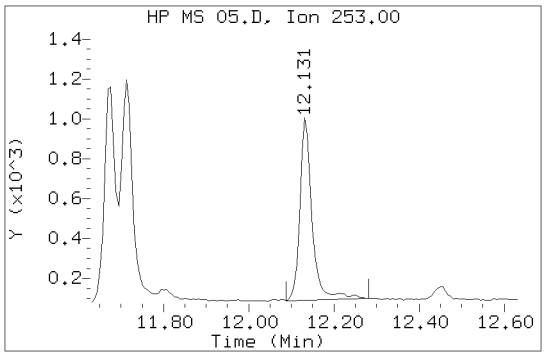
AFTER
MASS
252
AREA
8585
HEIGHT
4276
18-Dec-2023
10:16
linh
pham



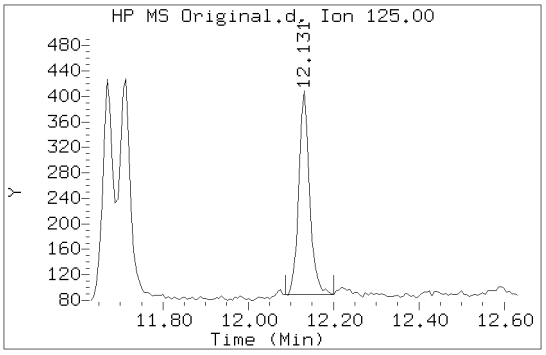
BEFORE
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



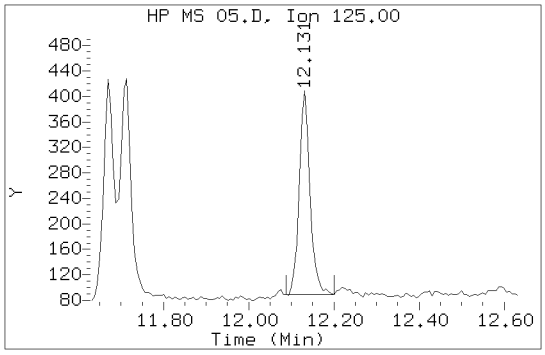
AFTER
MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



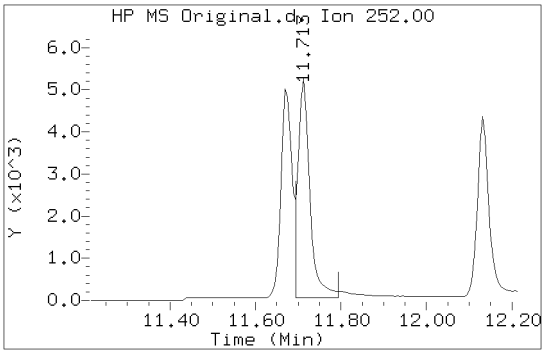
AFTER
MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



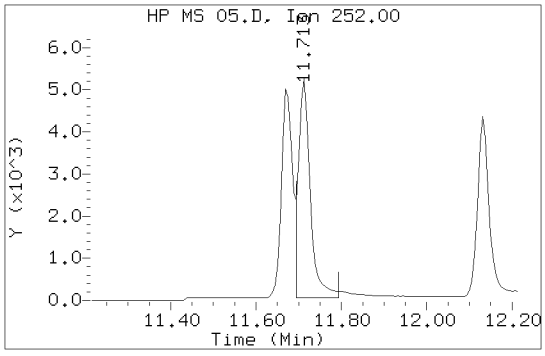
Benzo(k)fluoranthene (207-08-9)

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



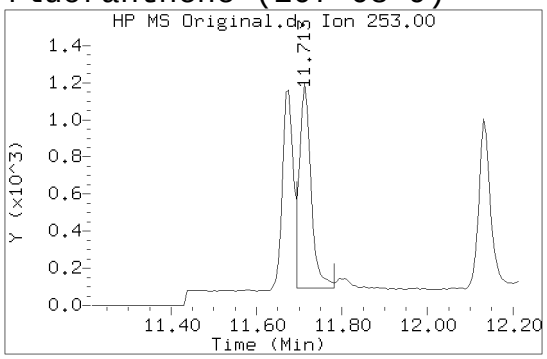
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(k)fluoranthene (207-08-9)

Reason Code:

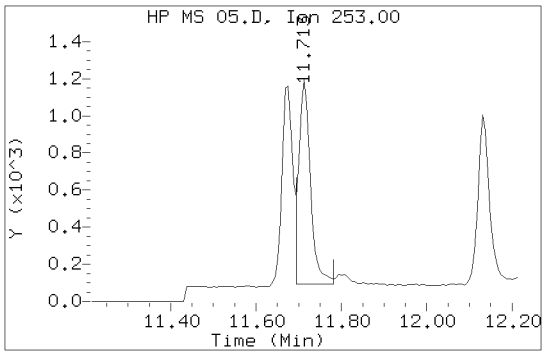
BEFORE

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



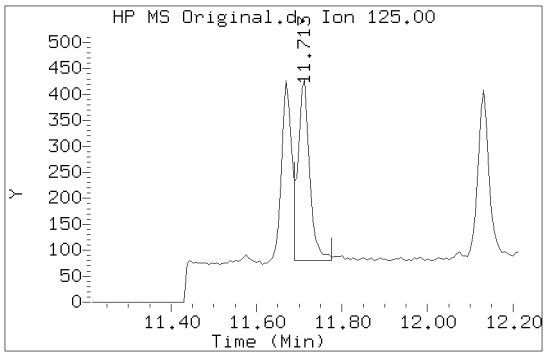
AFTER

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



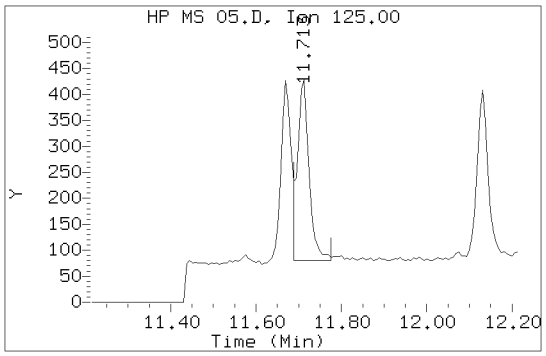
BEFORE

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

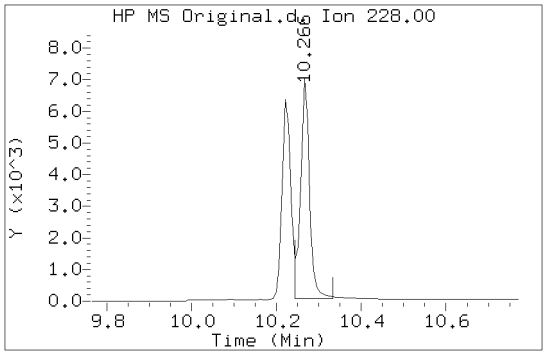


Chrysene (218-01-9)

Reason Code:

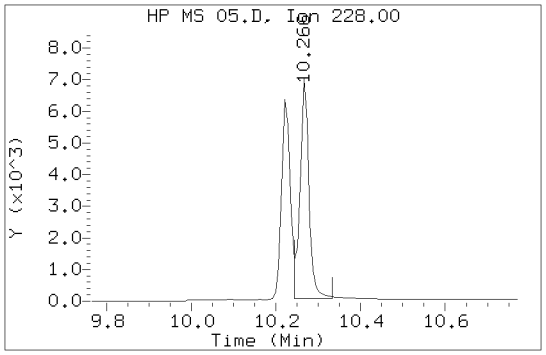
BEFORE

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



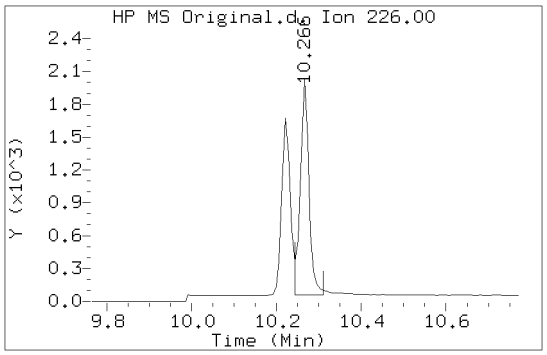
AFTER

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



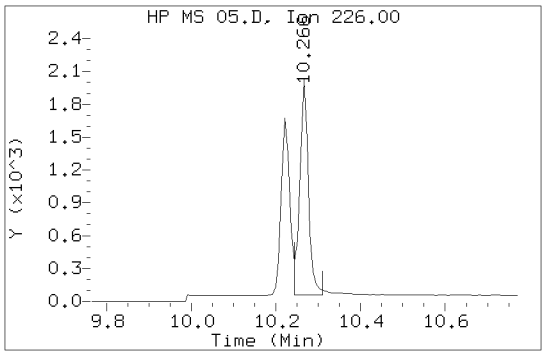
BEFORE

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



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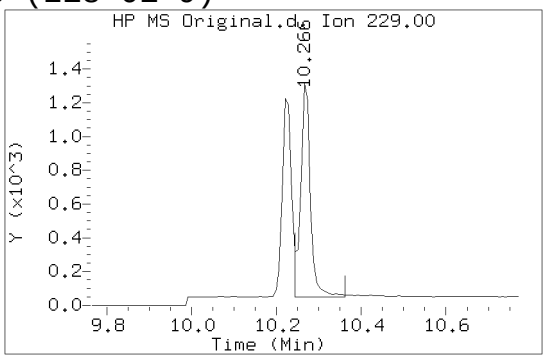
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene (218-01-9)

Reason Code:

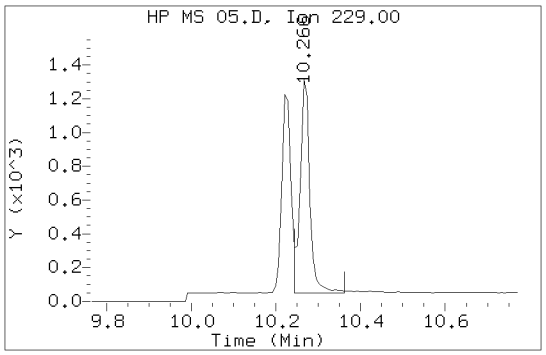
BEFORE

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham

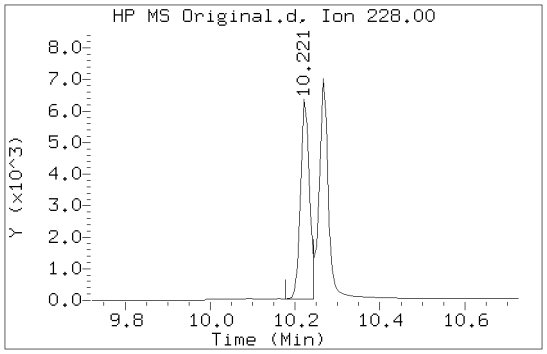


Benzo(a)Anthracene (56-55-3)

Reason Code:

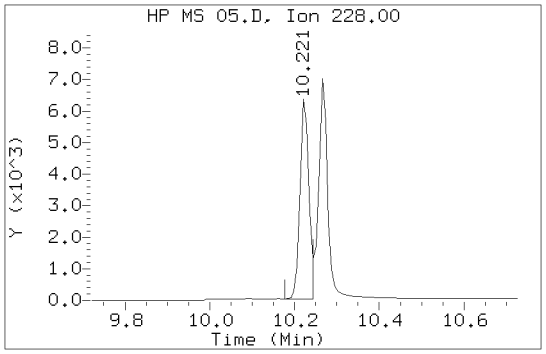
BEFORE

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



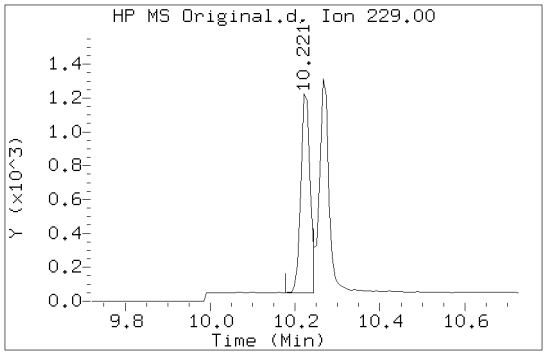
AFTER

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



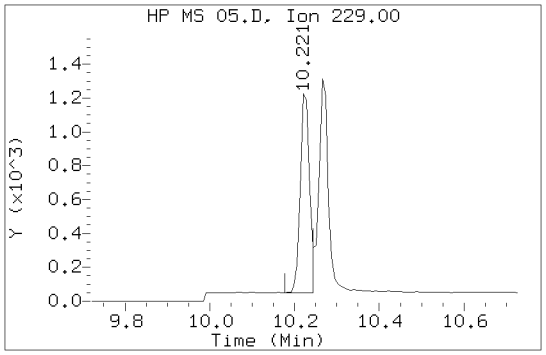
BEFORE

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



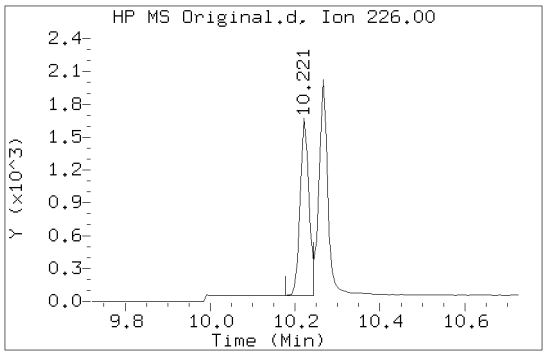
AFTER

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



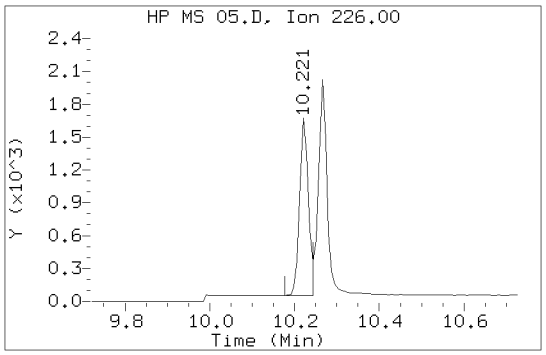
BEFORE

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



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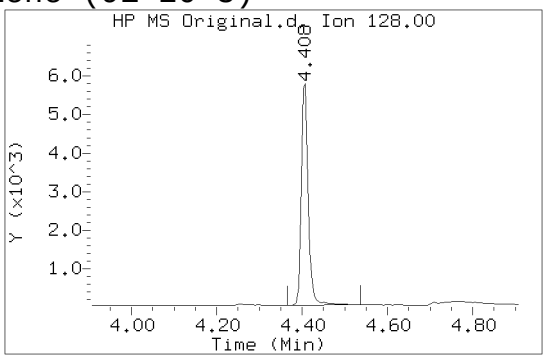
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene (91-20-3)

Reason Code:

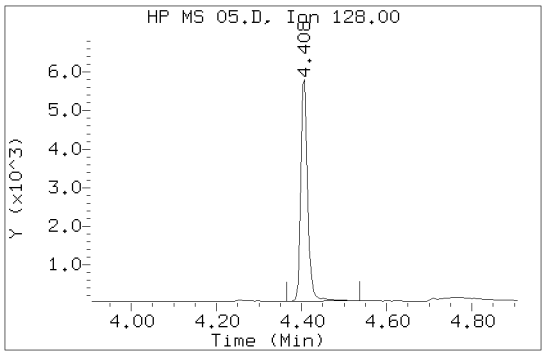
BEFORE

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



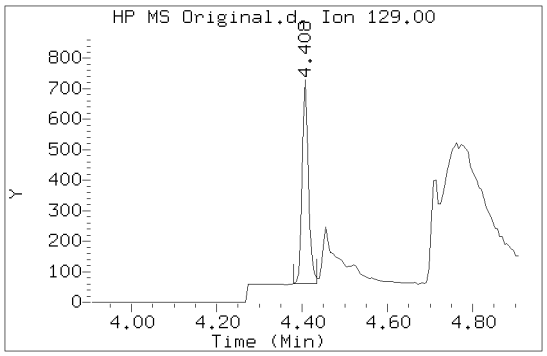
AFTER

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



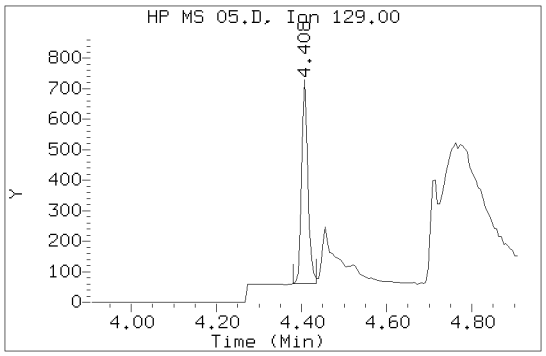
BEFORE

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham

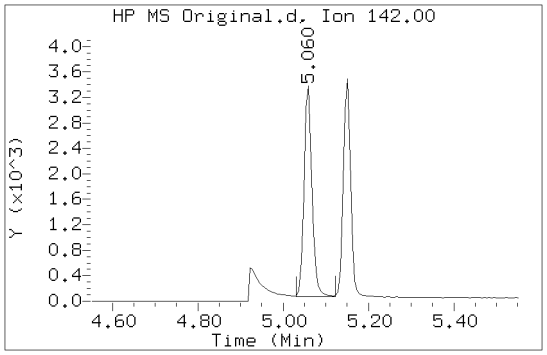


2-Methylnaphthalene (91-57-6)

Reason Code:

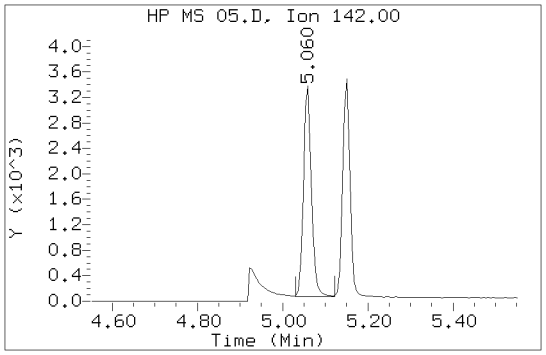
BEFORE

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



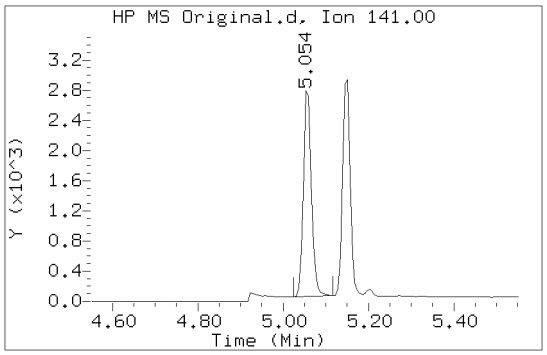
AFTER

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



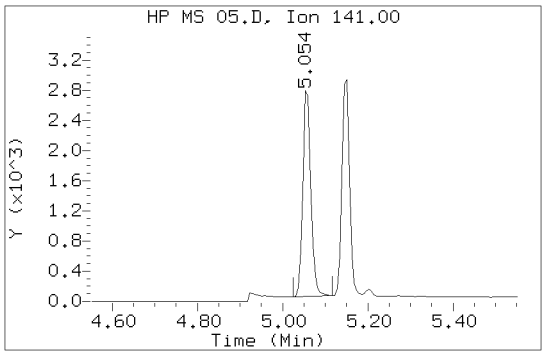
BEFORE

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



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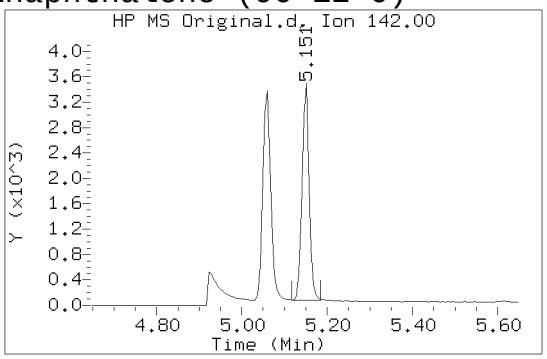
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

1-Methylnaphthalene (90-12-0)

Reason Code:

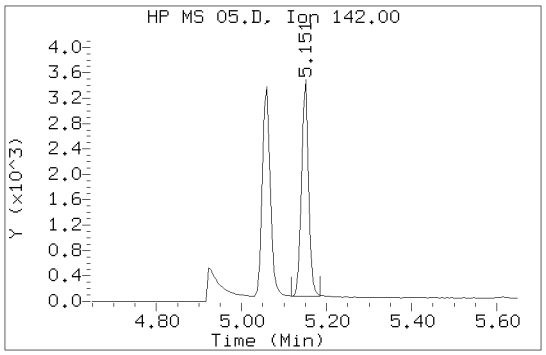
BEFORE

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



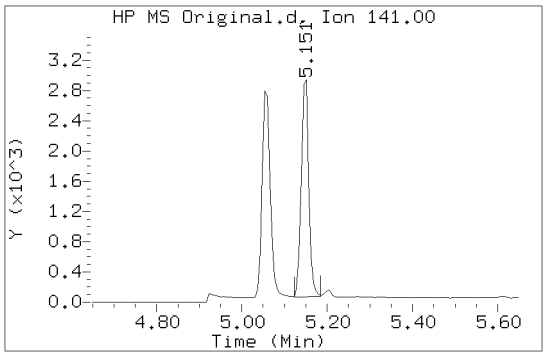
AFTER

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



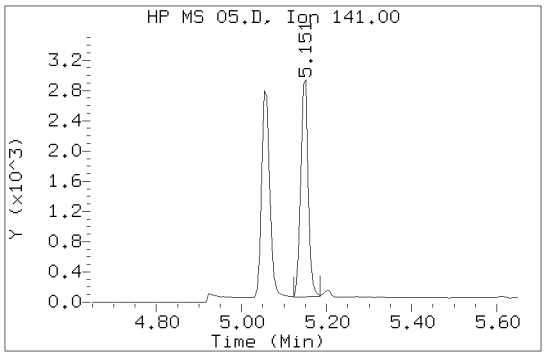
BEFORE

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

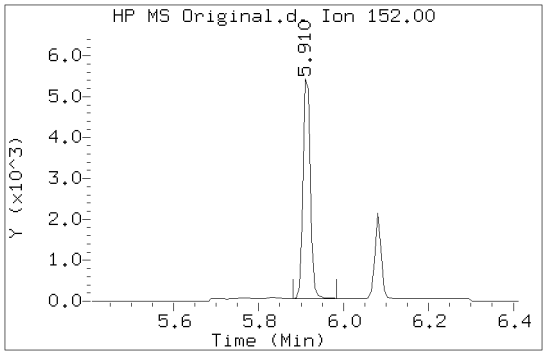


Acenaphthylene (208-96-8)

Reason Code:

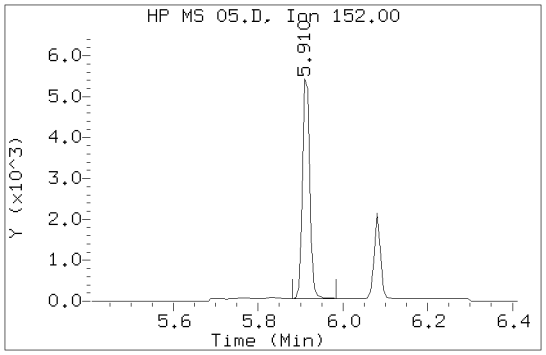
BEFORE

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



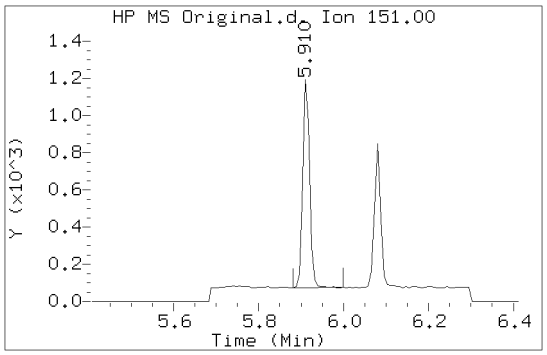
AFTER

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



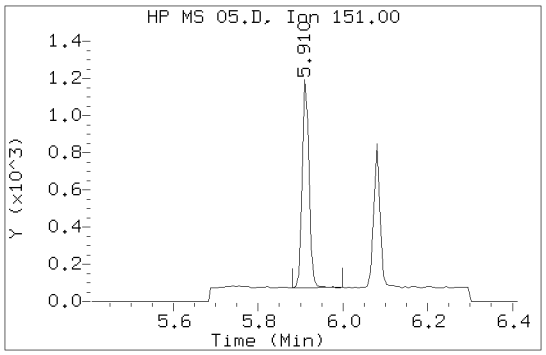
BEFORE

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



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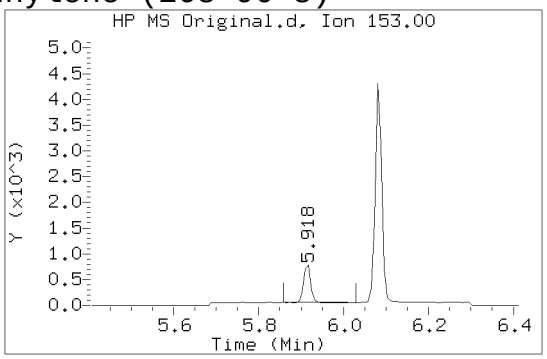
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Acenaphthylene (208-96-8)

Reason Code:

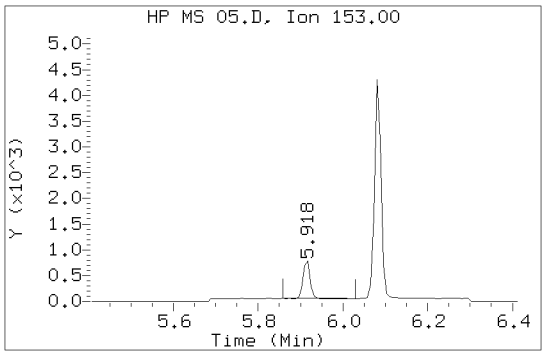
BEFORE

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham

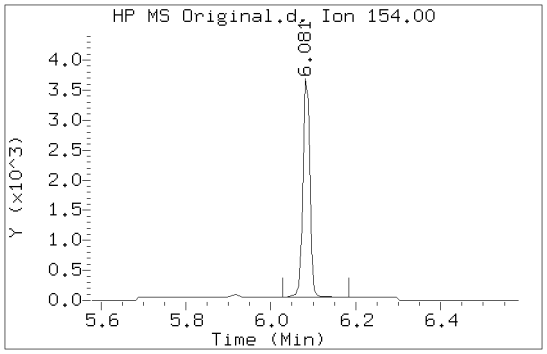


Acenaphthene (83-32-9)

Reason Code:

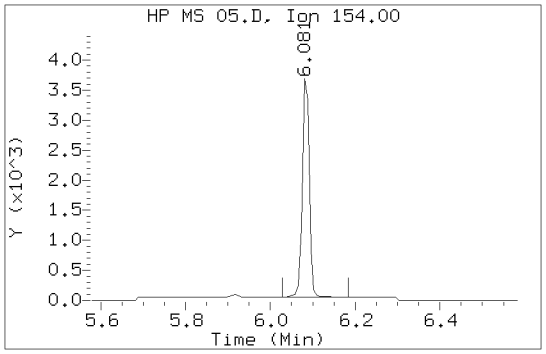
BEFORE

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



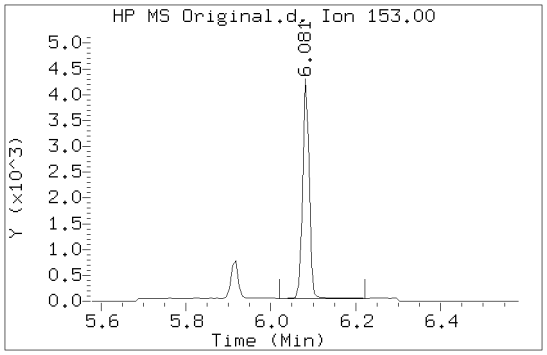
AFTER

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



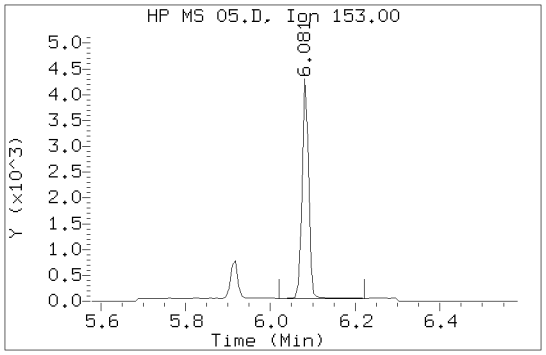
BEFORE

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



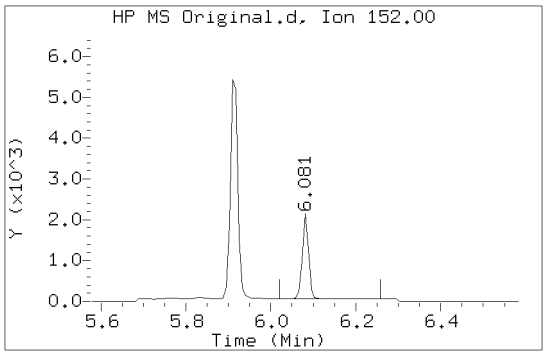
AFTER

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



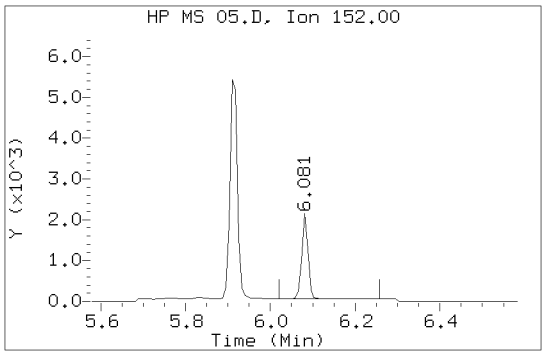
BEFORE

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



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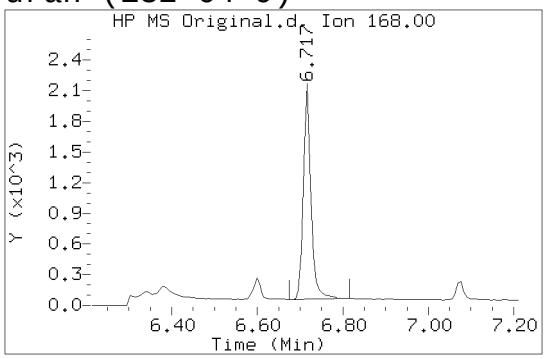
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzofuran (132-64-9)

Reason Code:

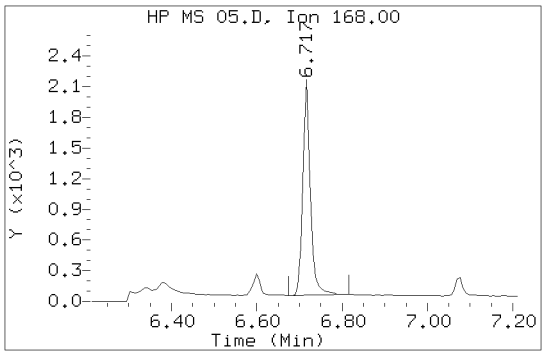
BEFORE

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



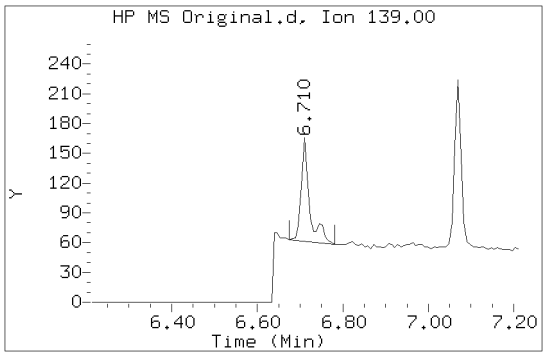
AFTER

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



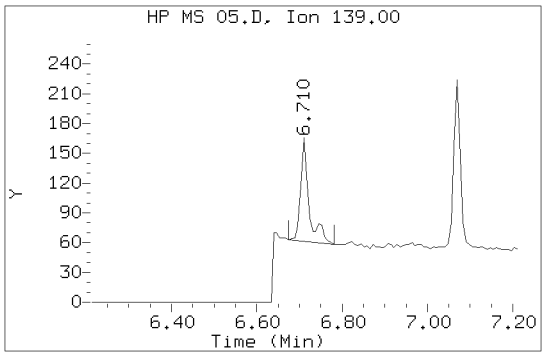
BEFORE

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham

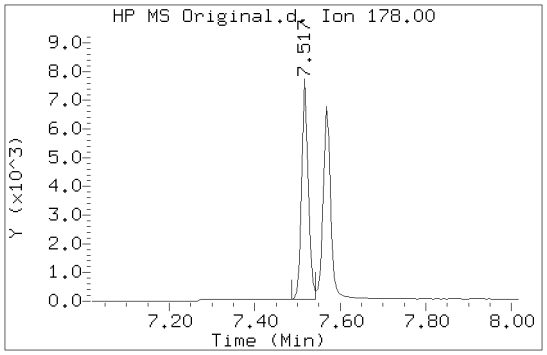


Phenanthrene (85-01-8)

Reason Code:

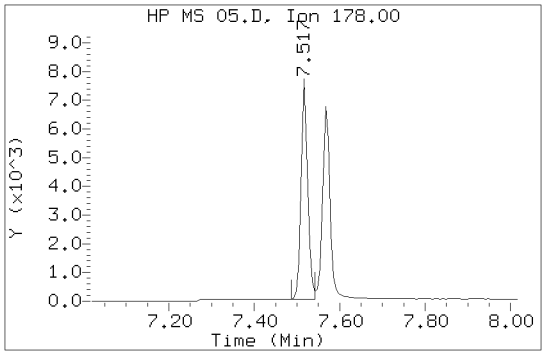
BEFORE

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



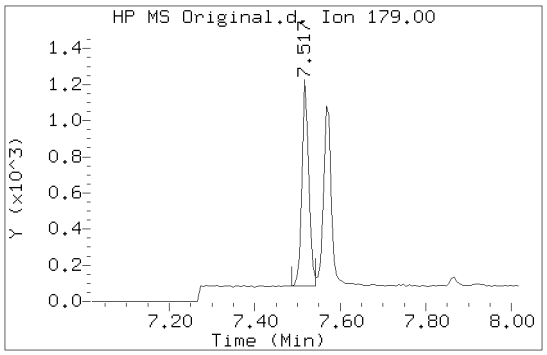
AFTER

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



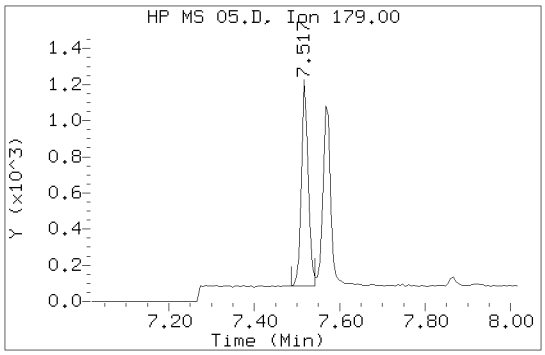
BEFORE

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



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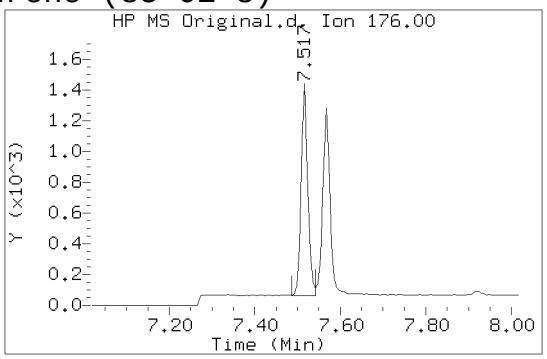
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene (85-01-8)

Reason Code:

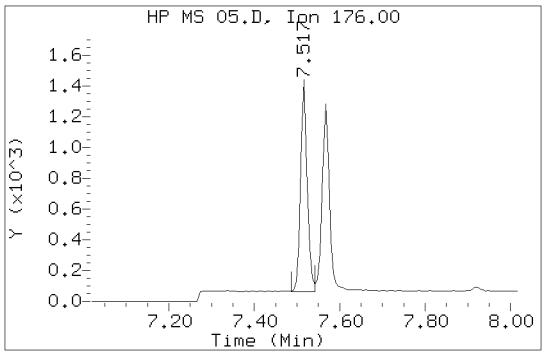
BEFORE

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

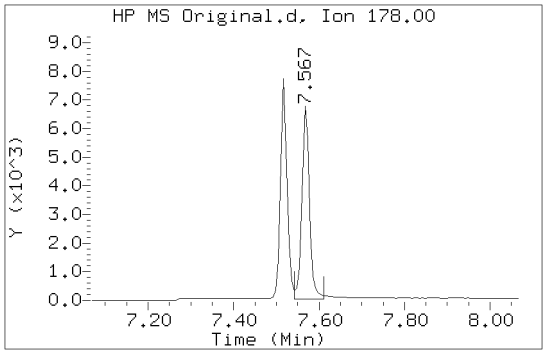


Anthracene (120-12-7)

Reason Code:

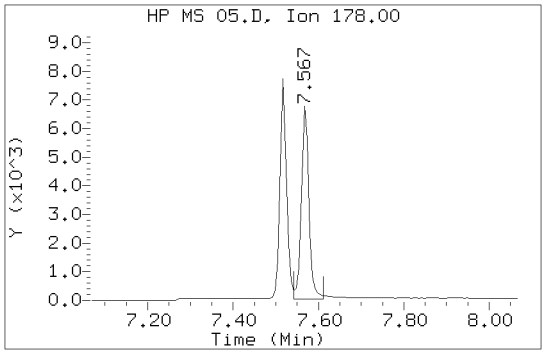
BEFORE

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



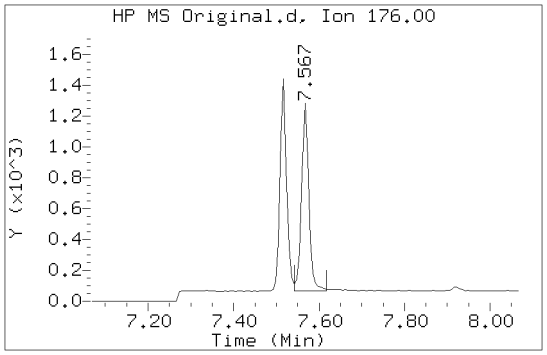
AFTER

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



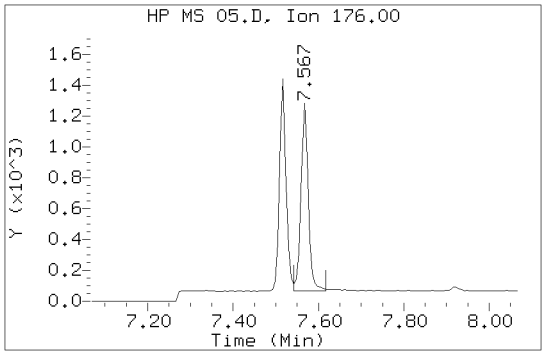
BEFORE

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



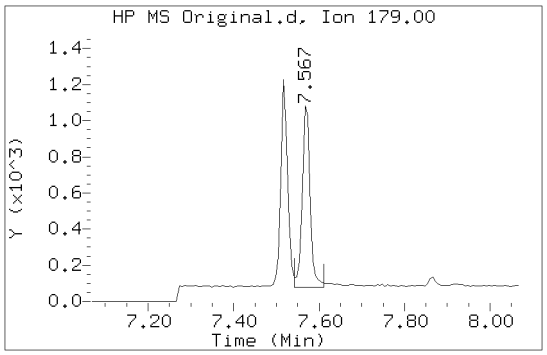
AFTER

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



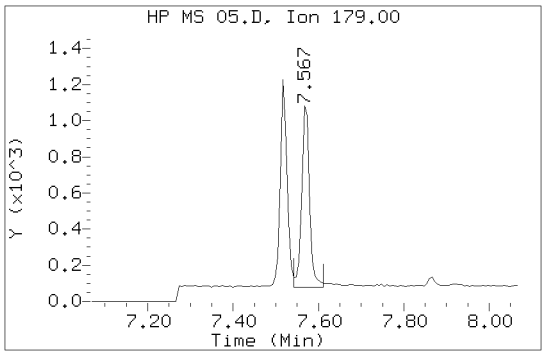
BEFORE

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



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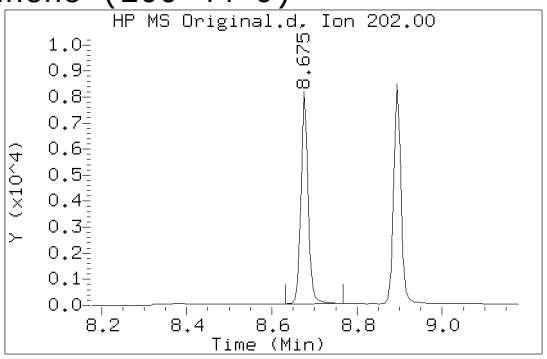
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

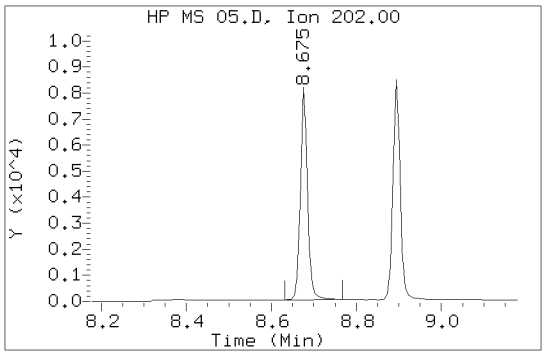
Fluoranthene (206-44-0)

Reason Code:

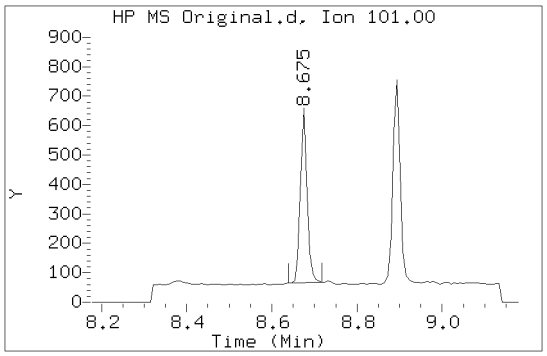
BEFORE
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



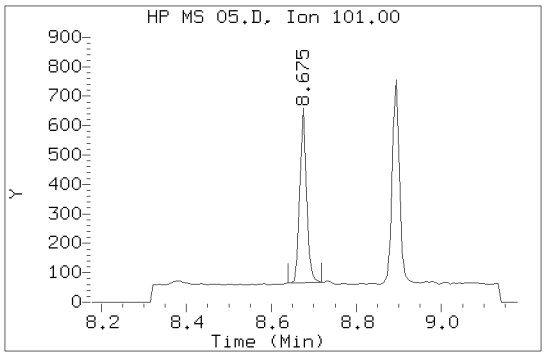
AFTER
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



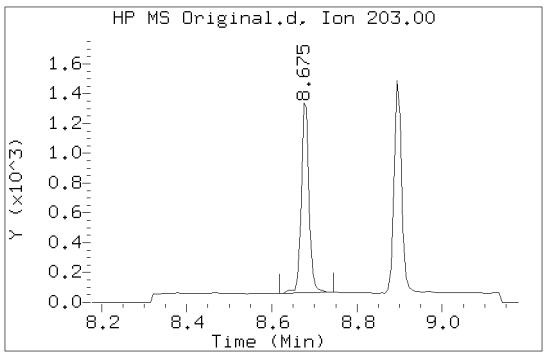
BEFORE
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



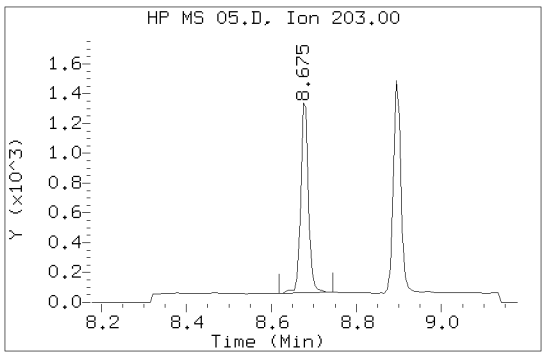
AFTER
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



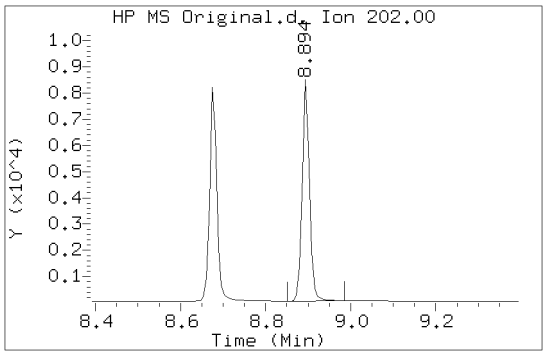
AFTER
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



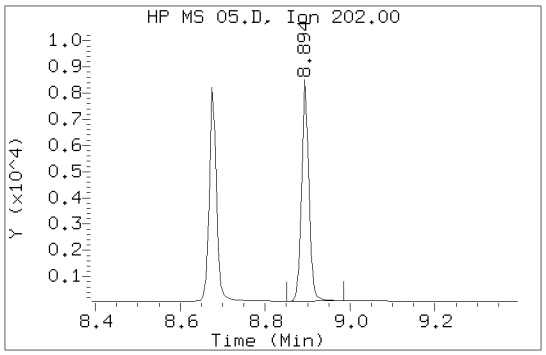
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



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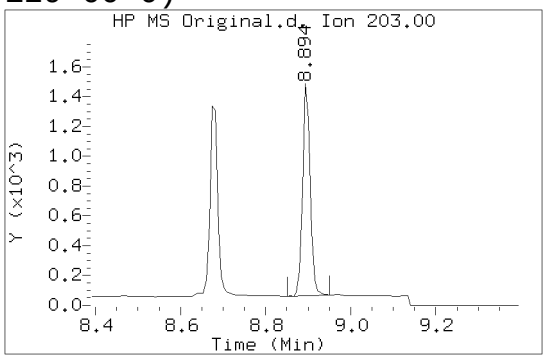
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Pyrene (129-00-0)

Reason Code:

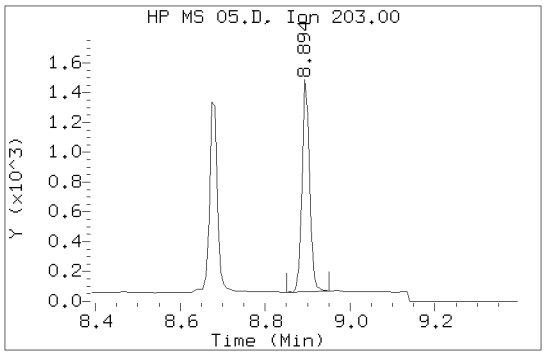
BEFORE

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



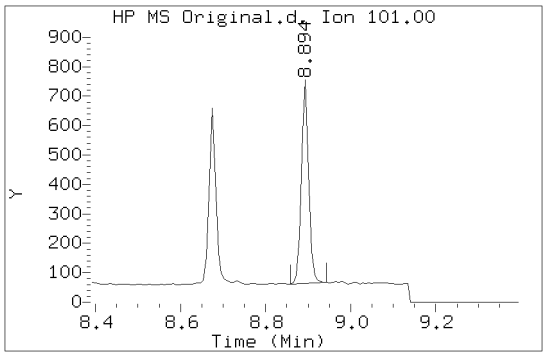
AFTER

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



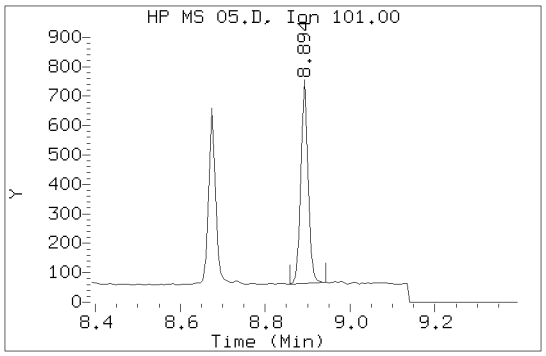
BEFORE

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

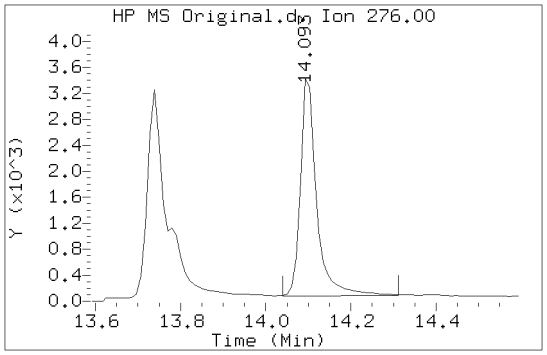


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

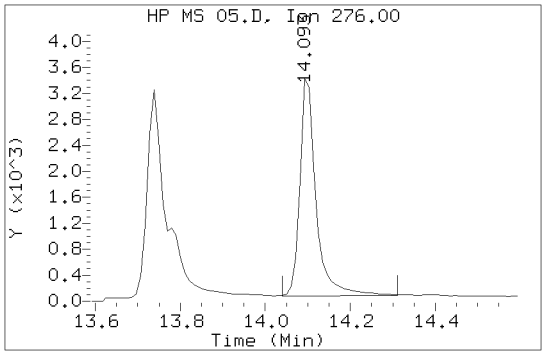
BEFORE

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



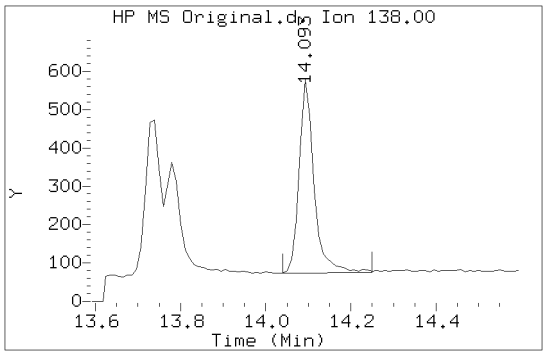
AFTER

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



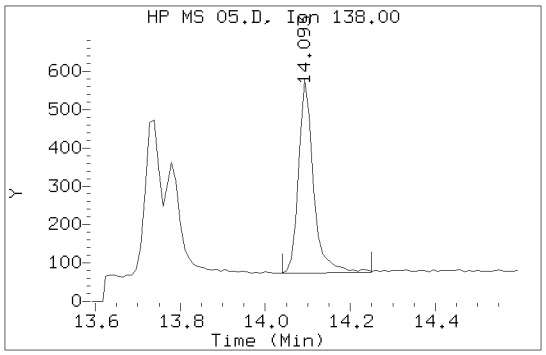
BEFORE

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

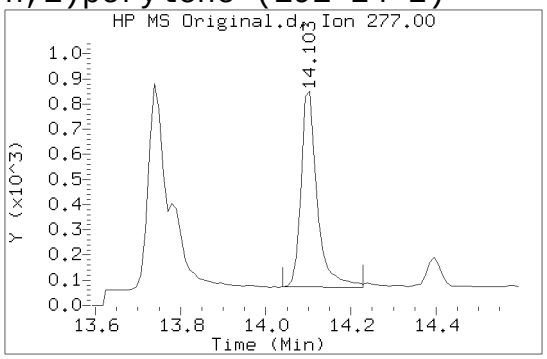


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

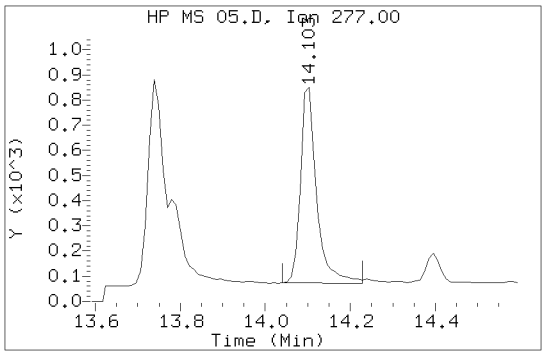
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

BEFORE
MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham



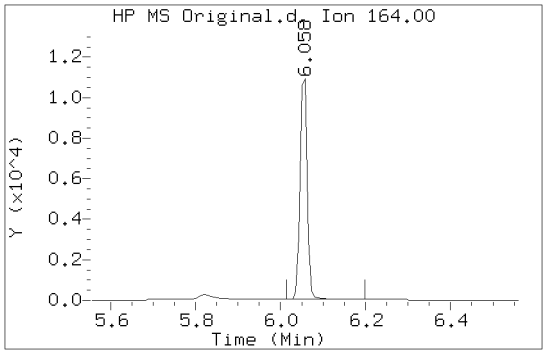
AFTER
MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham



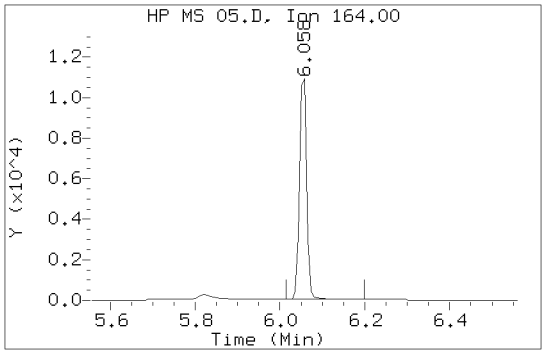
Acenaphthene-d10 (15067-26-2)

Reason Code:

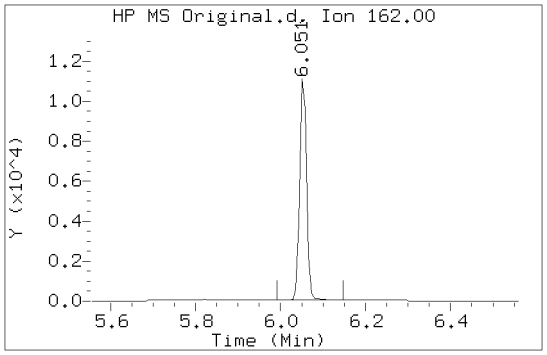
BEFORE
MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



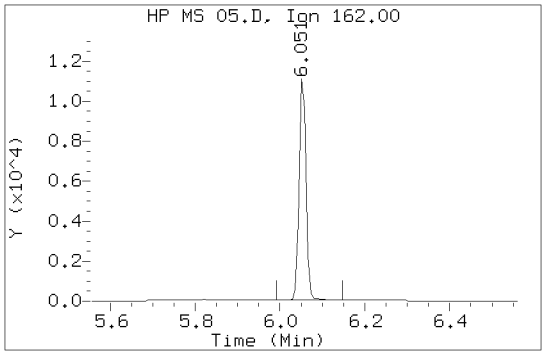
AFTER
MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



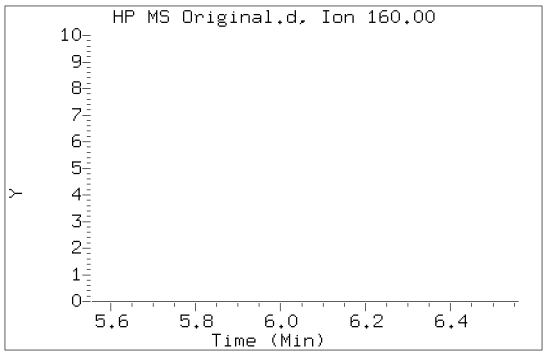
BEFORE
MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



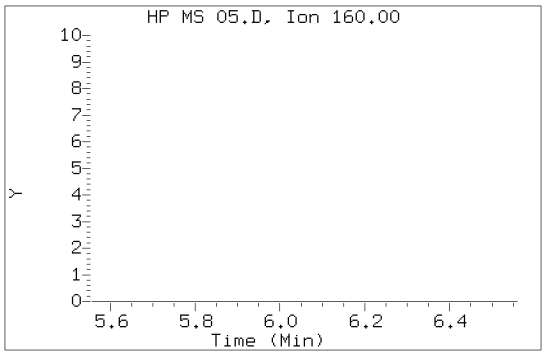
AFTER
MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



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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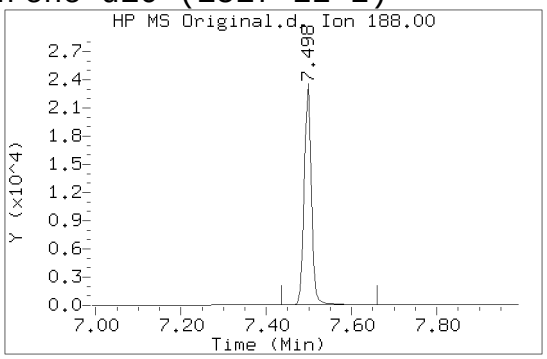
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene-d10 (1517-22-2)

Reason Code:

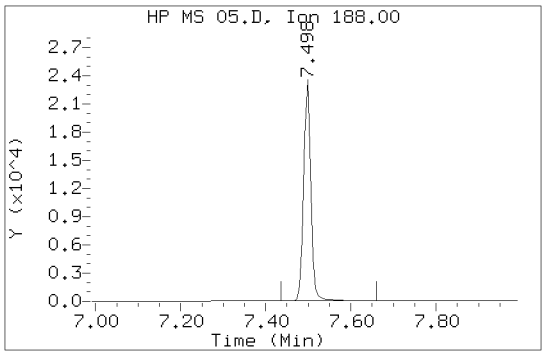
BEFORE

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



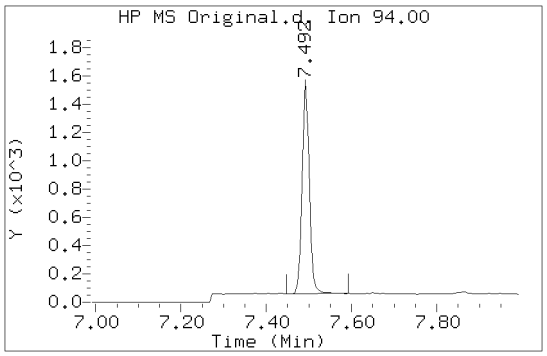
AFTER

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



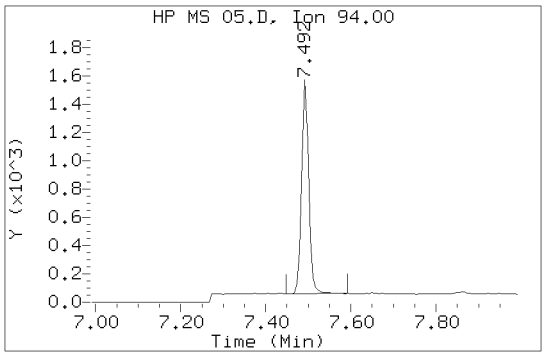
BEFORE

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



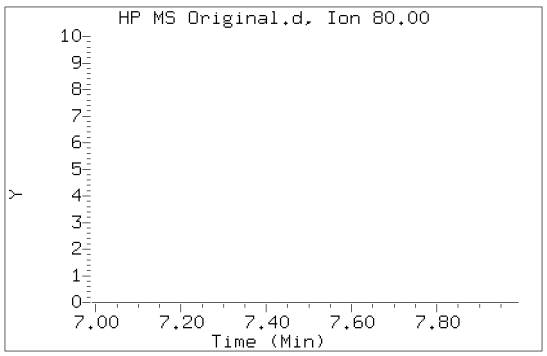
AFTER

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



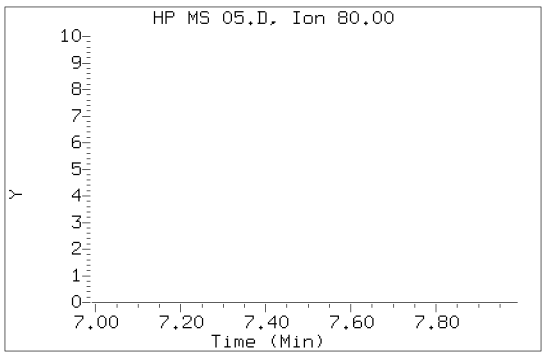
BEFORE

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

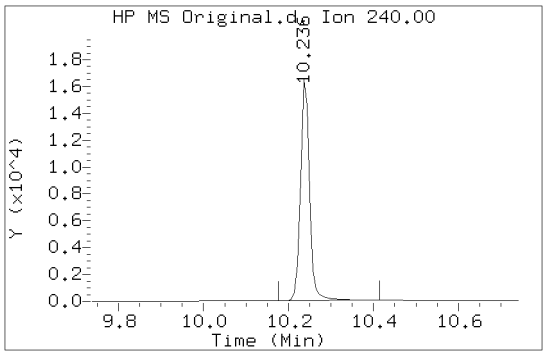


Chrysene-d12 (1719-03-5)

Reason Code:

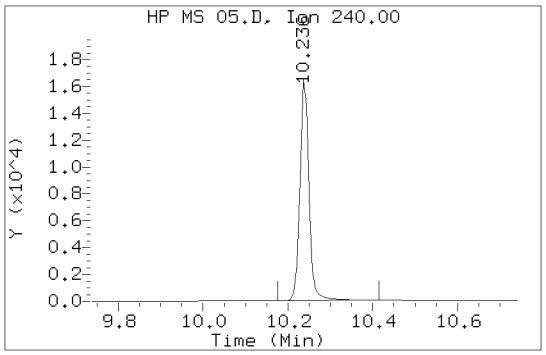
BEFORE

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



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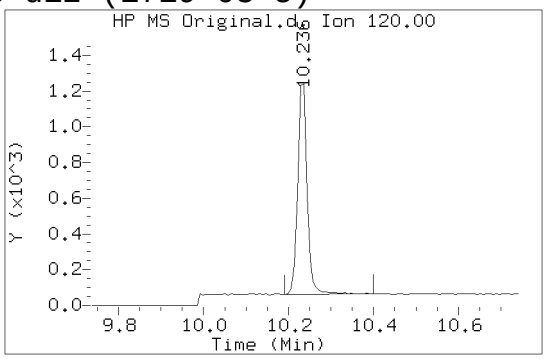
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene-d12 (1719-03-5)

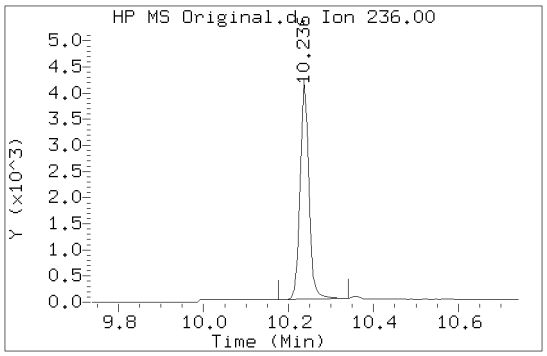
BEFORE

MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham



BEFORE

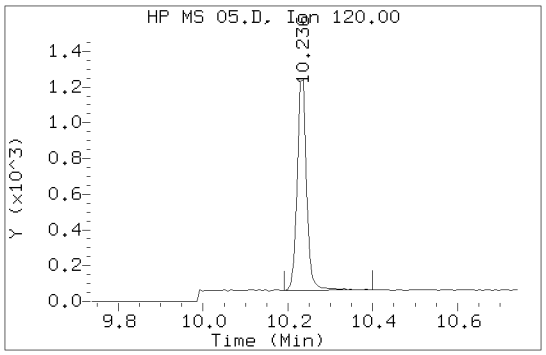
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham



Reason Code:

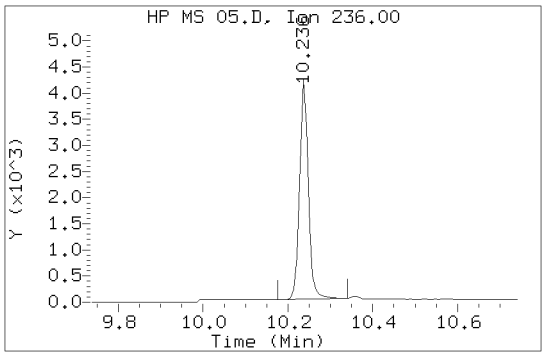
AFTER

MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham



AFTER

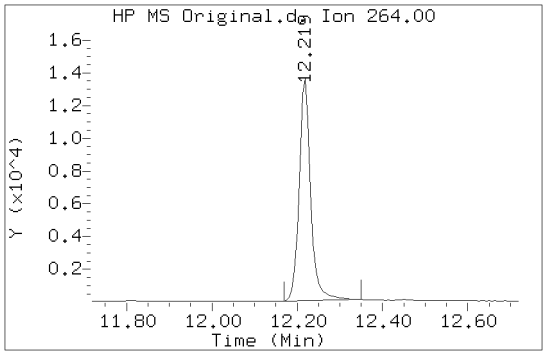
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham



Perylene-d12 (1520-96-3)

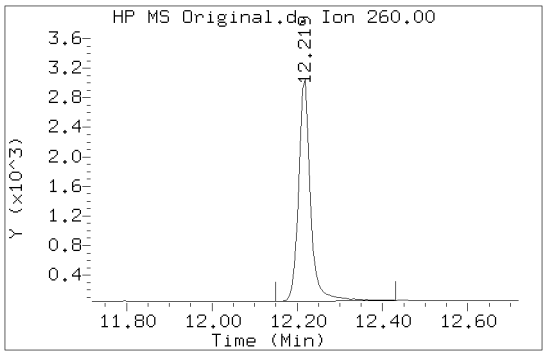
BEFORE

MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



BEFORE

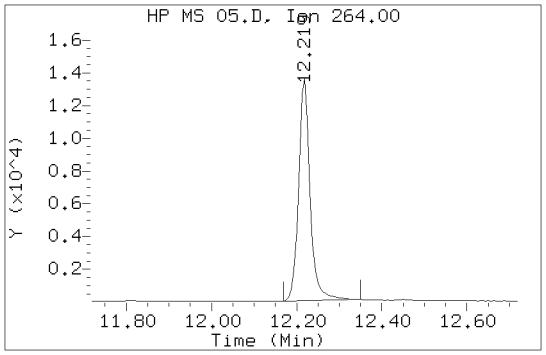
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



Reason Code:

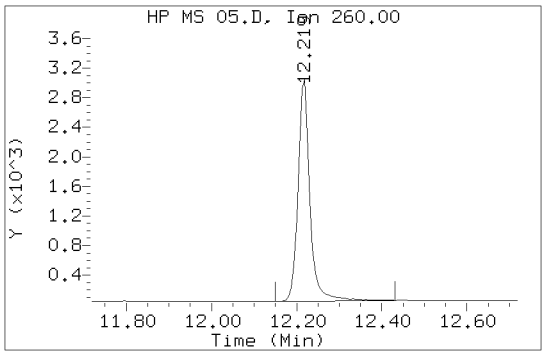
AFTER

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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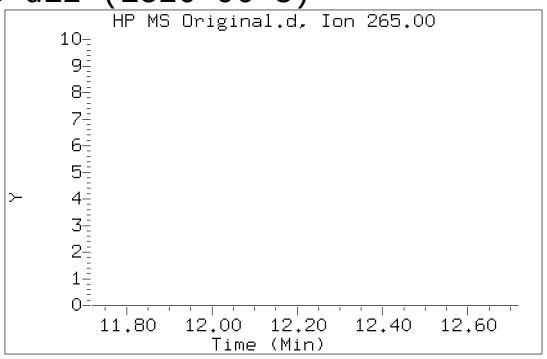
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Perylene-d12 (1520-96-3)

Reason Code:

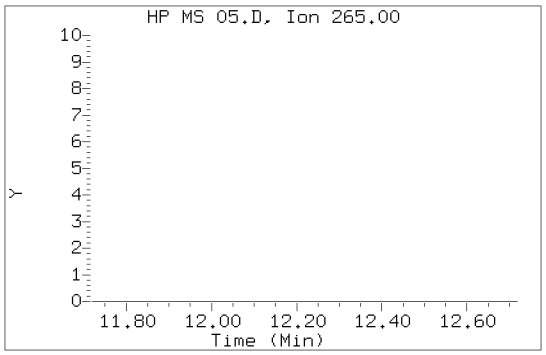
BEFORE

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

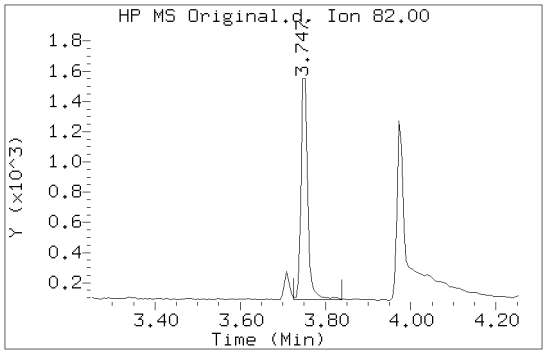


Nitrobenzene-d5 (4165-60-0)

Reason Code:

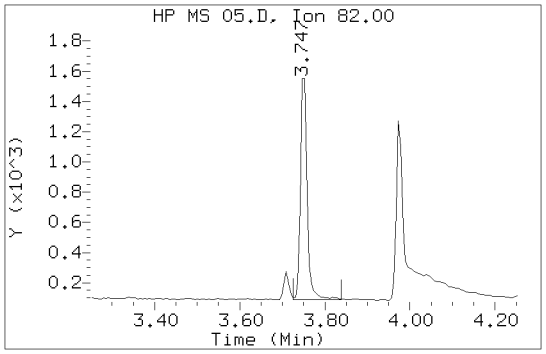
BEFORE

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



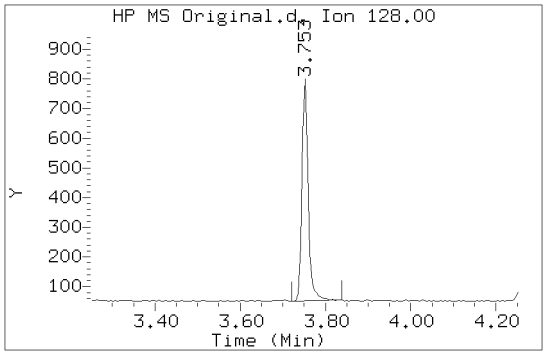
AFTER

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



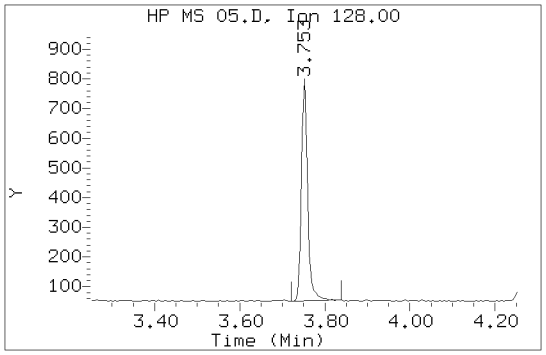
BEFORE

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



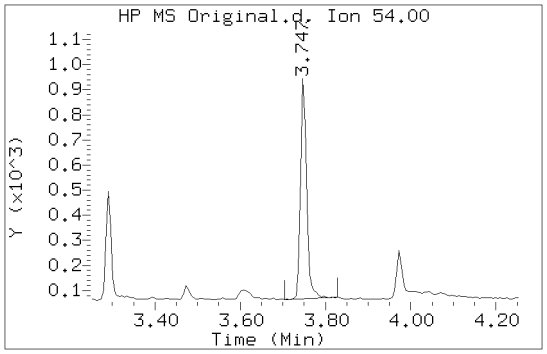
AFTER

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



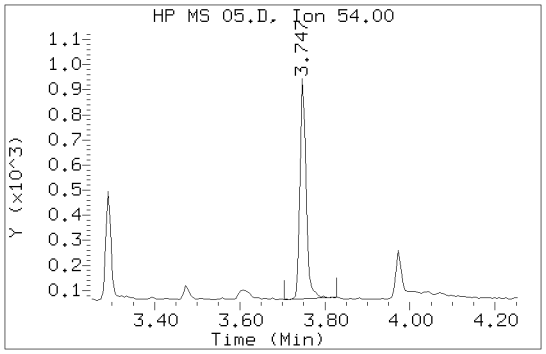
BEFORE

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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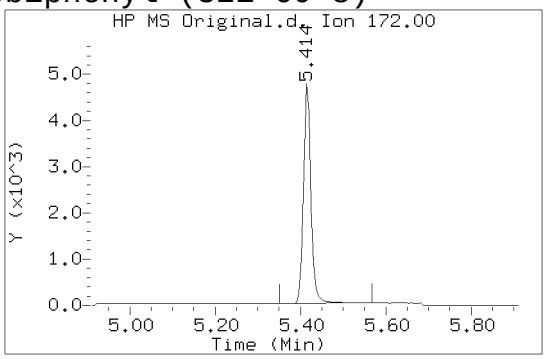
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

2-Fluorobiphenyl (321-60-8)

Reason Code:

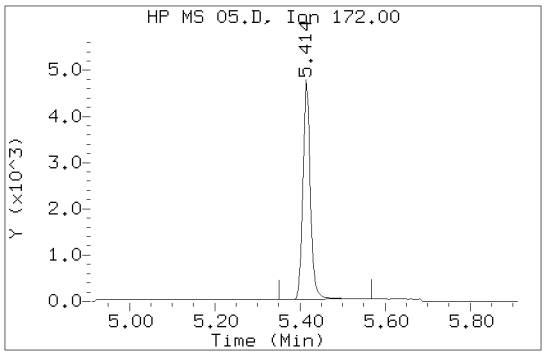
BEFORE

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



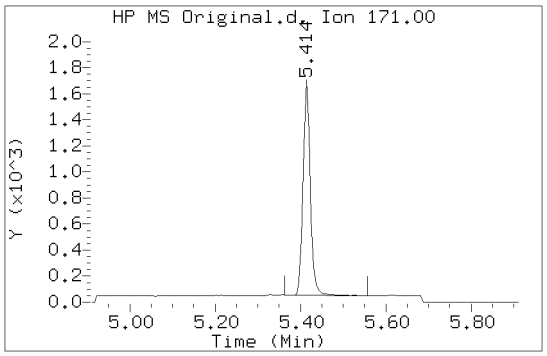
AFTER

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



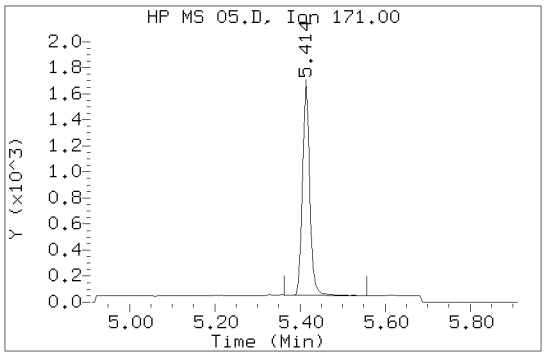
BEFORE

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

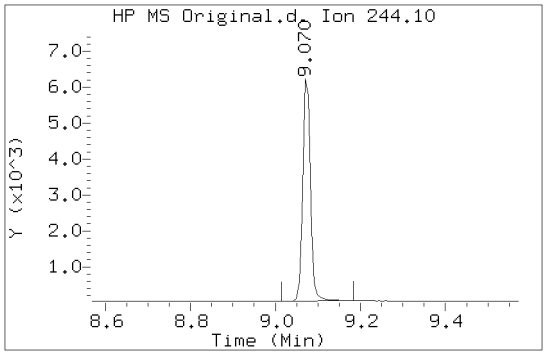


4-Terphenyl-d14 (1718-51-0)

Reason Code:

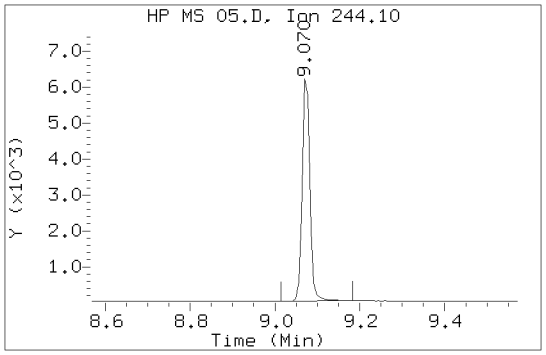
BEFORE

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



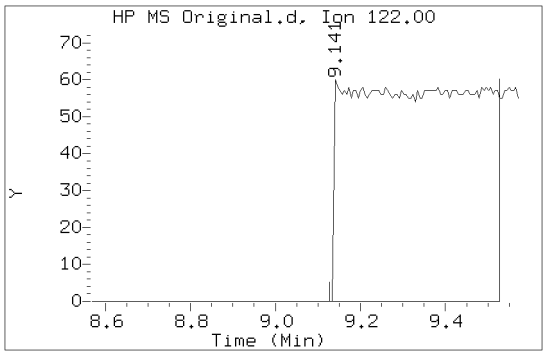
AFTER

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



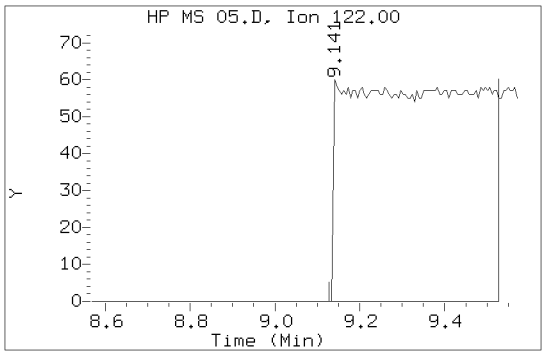
BEFORE

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



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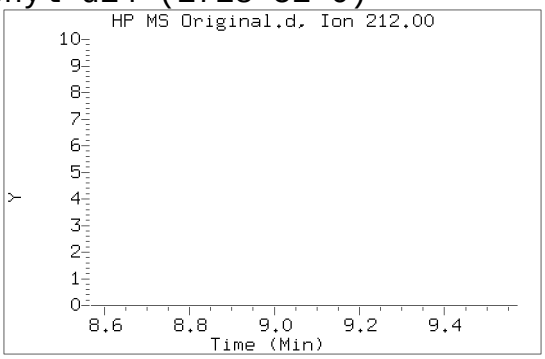
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

4-Terphenyl-d14 (1718-51-0)

Reason Code:

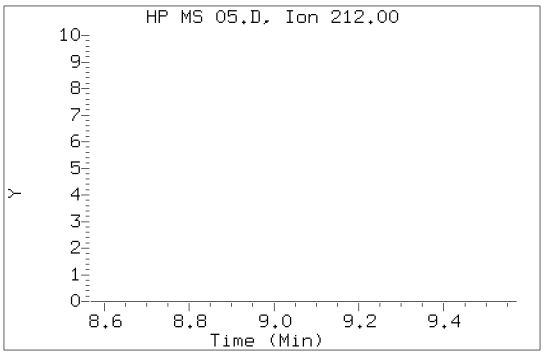
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.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\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)	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)	AMOUNTS 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

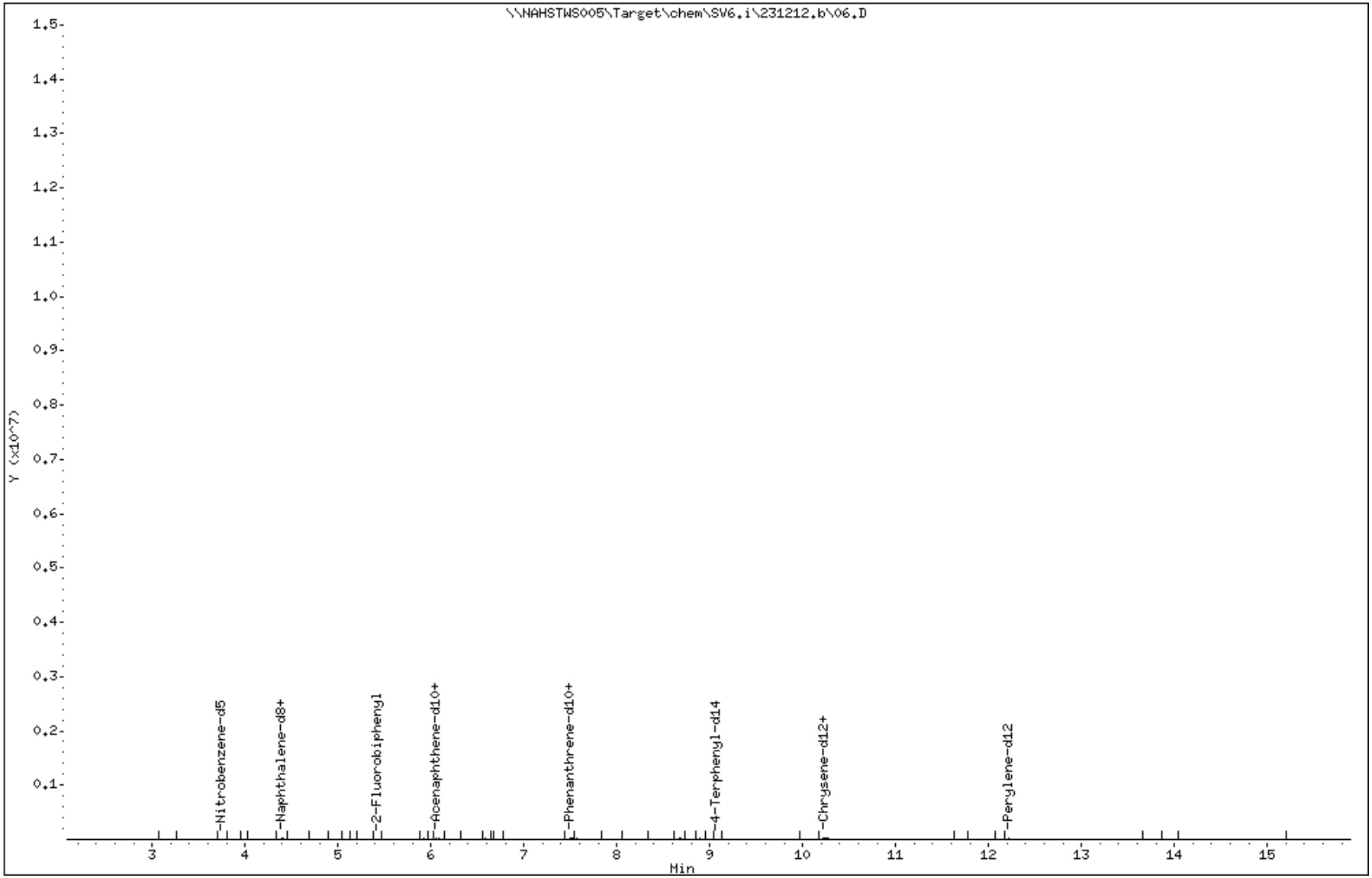
Sample Info: PAHSIM-0.050

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:

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HEIGHT
19440
18-Dec-2023
10:16
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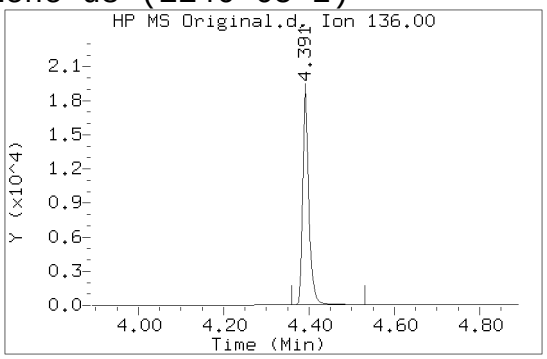

AFTER

MASS
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AREA
18985
HEIGHT
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18-Dec-2023
10:16
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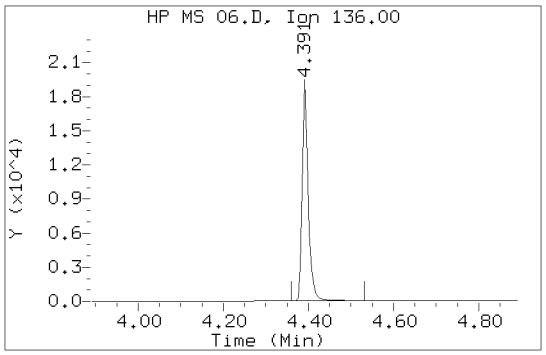
pham



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18-Dec-2023
10:16
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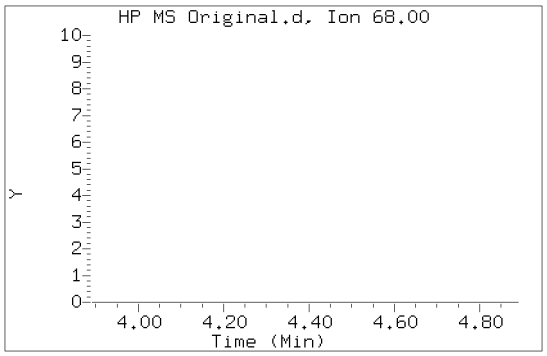

AFTER

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18-Dec-2023
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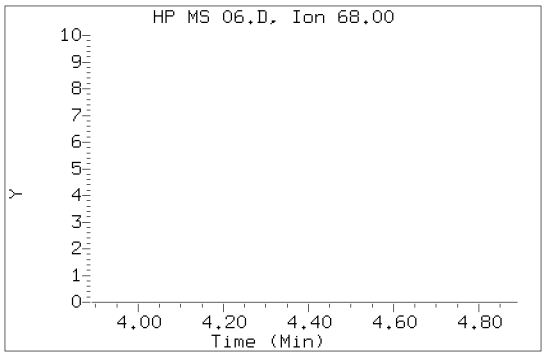

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

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18-Dec-2023
10:16
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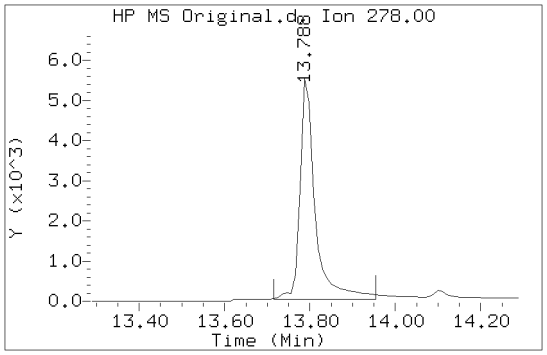
pham



AFTER

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18-Dec-2023
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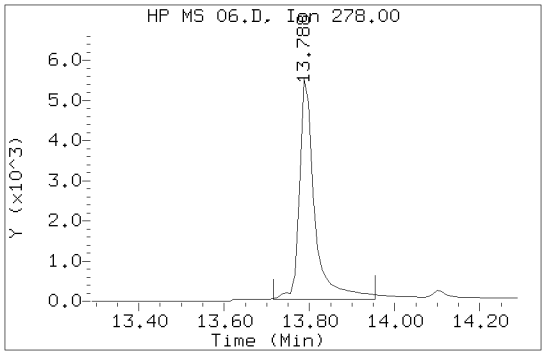
pham



BEFORE

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1603
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648
18-Dec-2023
10:16
linh
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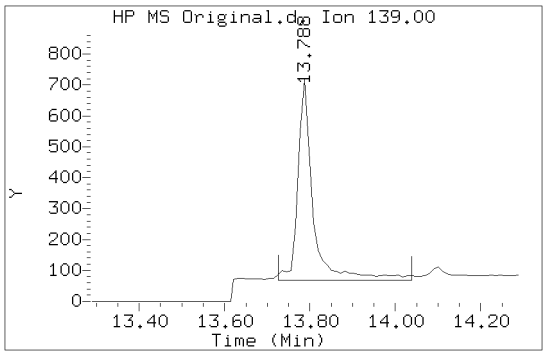

AFTER

MASS
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AREA
1603
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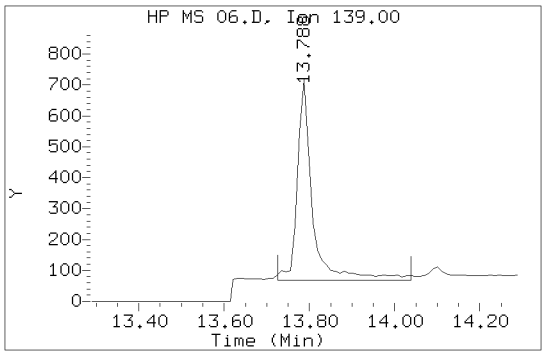
10:16
linh
pham



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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

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HEIGHT
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18-Dec-2023
10:16
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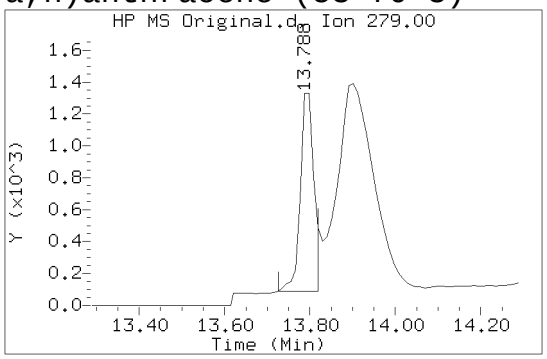

AFTER

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18-Dec-2023
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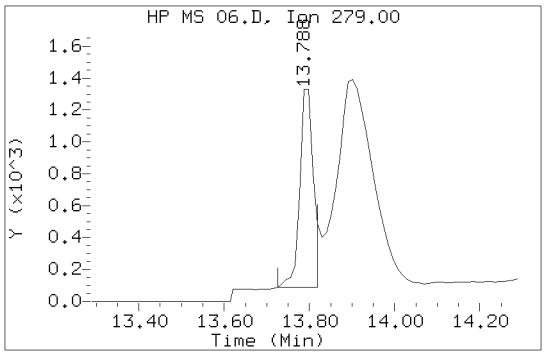

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

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10:16
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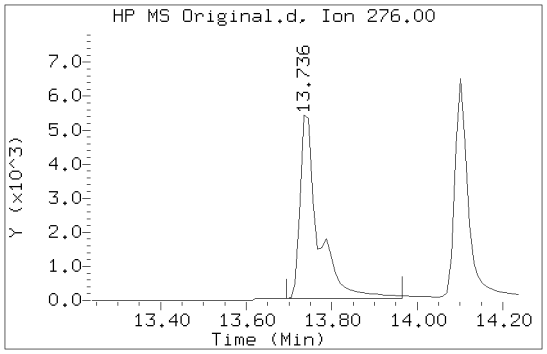

AFTER

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18-Dec-2023
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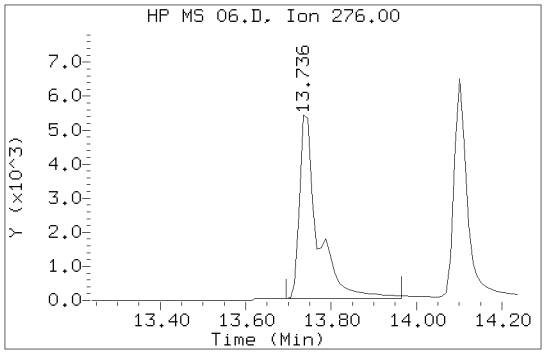

BEFORE

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AREA
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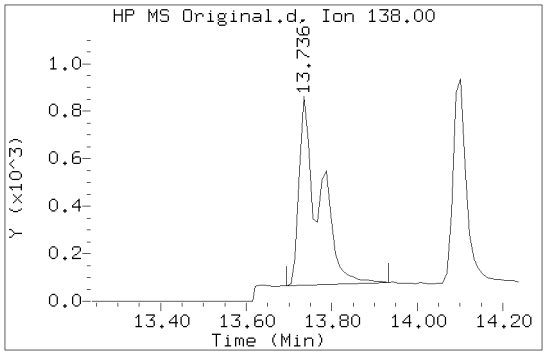
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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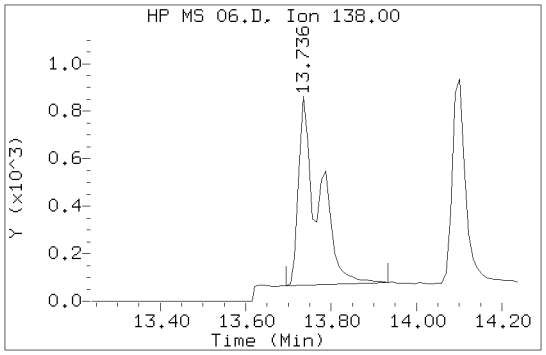

BEFORE

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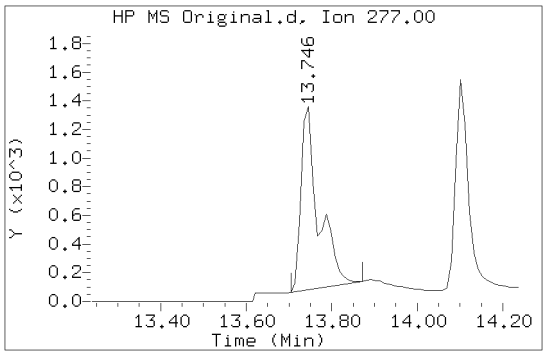

AFTER

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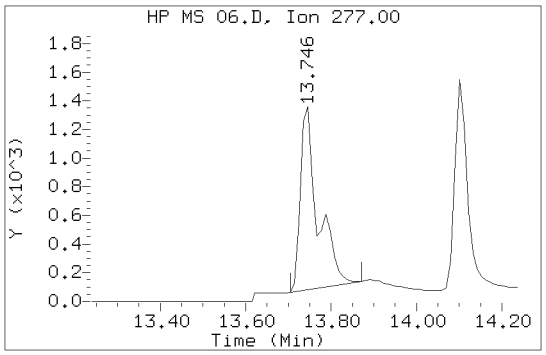

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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE
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AREA
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HEIGHT
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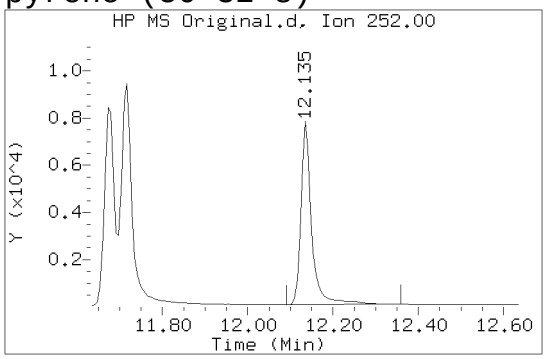
18-Dec-2023
10:16
linh
pham



AFTER
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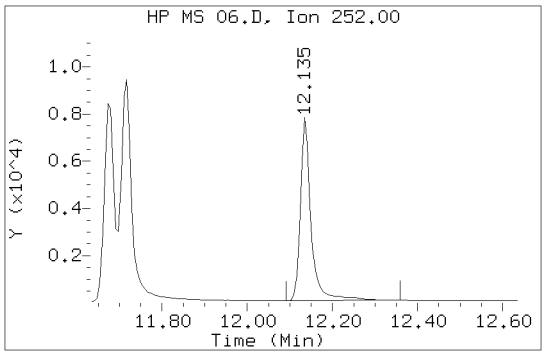

BEFORE
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18-Dec-2023
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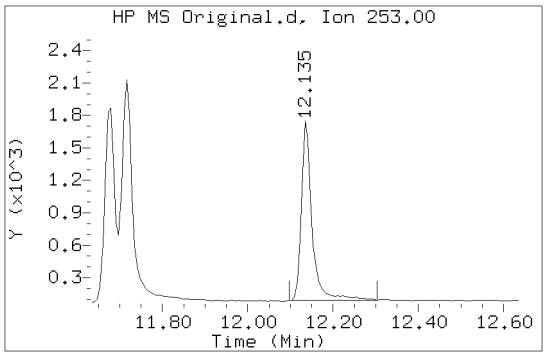

AFTER
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HEIGHT
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18-Dec-2023
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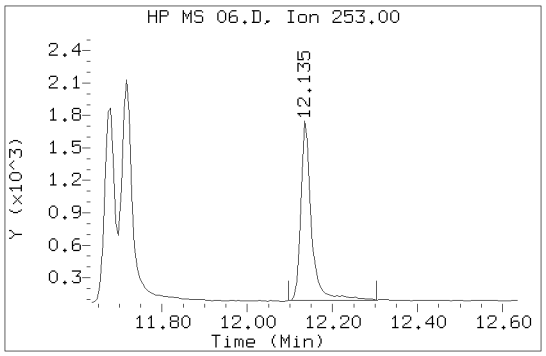

BEFORE
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HEIGHT
564
18-Dec-2023
10:16
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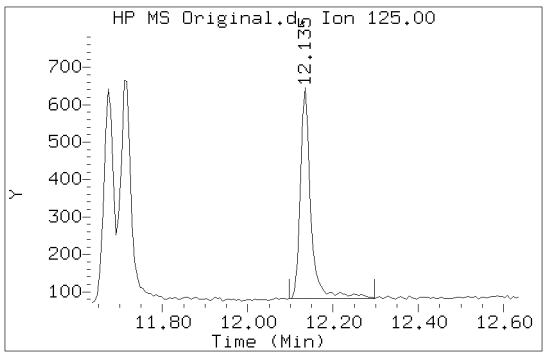

AFTER
MASS
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AREA
981
HEIGHT
564
18-Dec-2023
10:16
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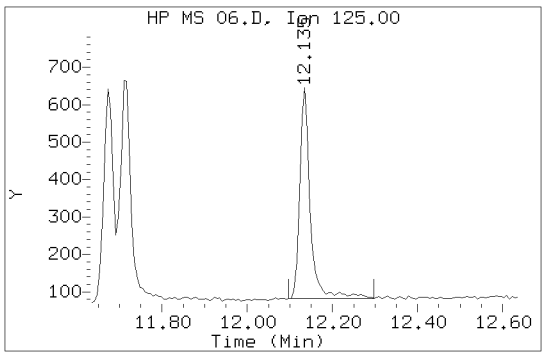

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE
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AREA
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HEIGHT
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10:16
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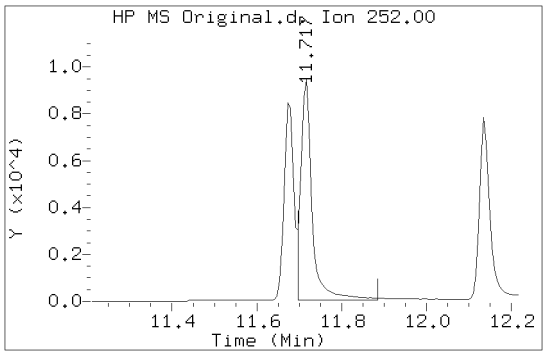

AFTER
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18-Dec-2023
10:16
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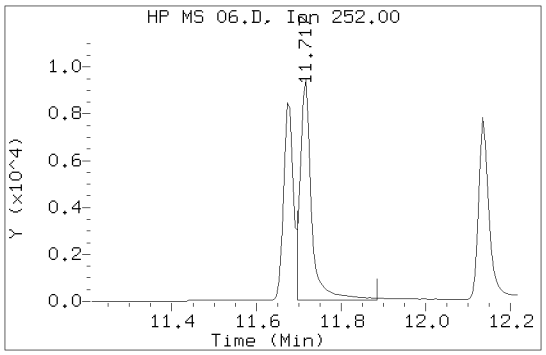

Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
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HEIGHT
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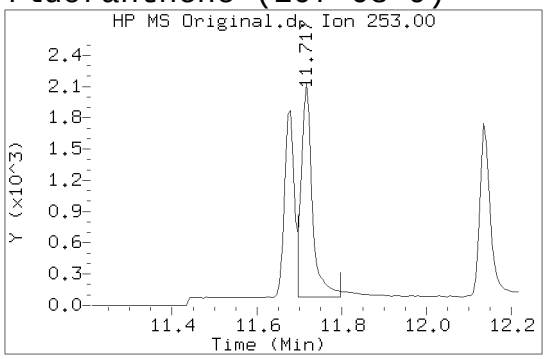
18-Dec-2023
10:16
linh
pham



AFTER

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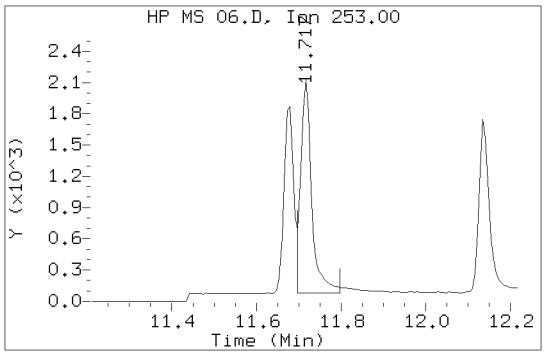

BEFORE

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AREA
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HEIGHT
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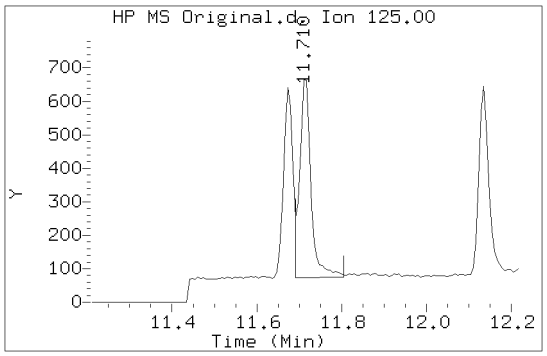
10:16
linh
pham



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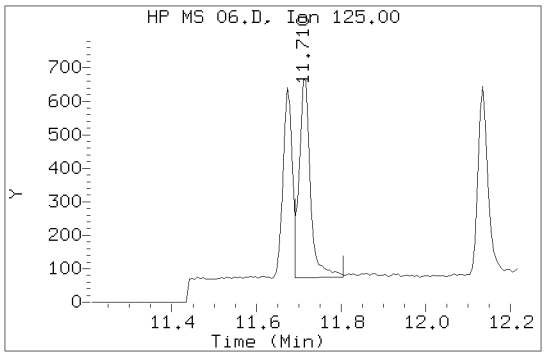

Benzo(b)fluoranthene (205-99-2)

Reason Code:

BEFORE

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HEIGHT
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10:16
linh
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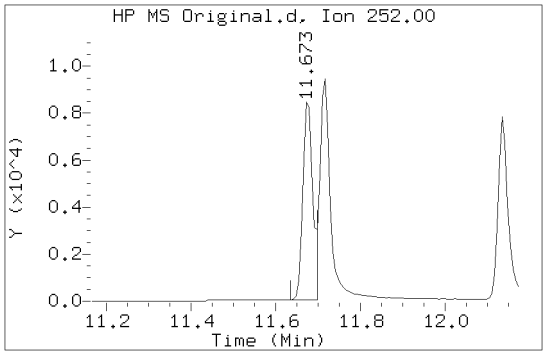

AFTER

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10:16
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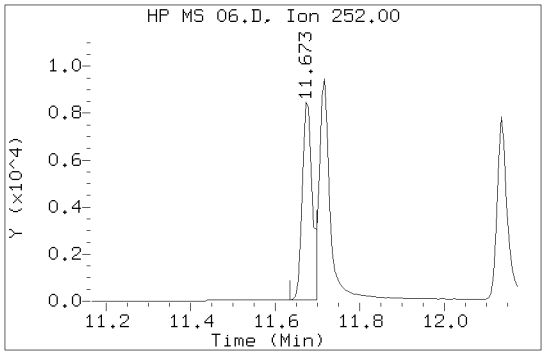

BEFORE

MASS
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HEIGHT
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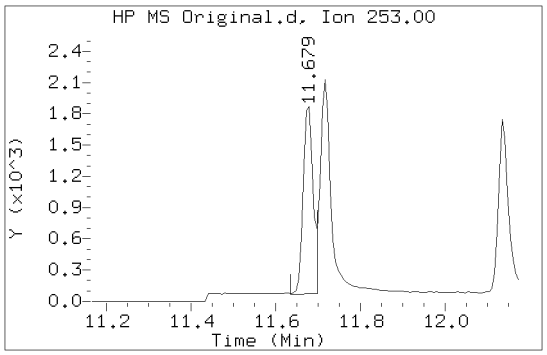
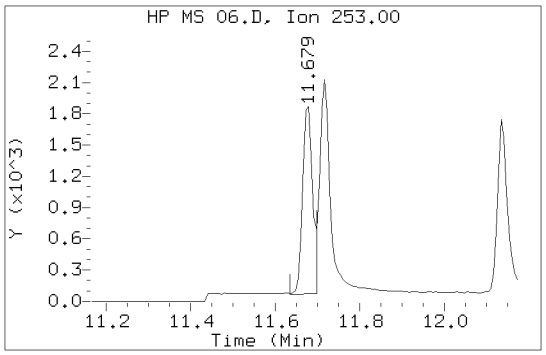
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



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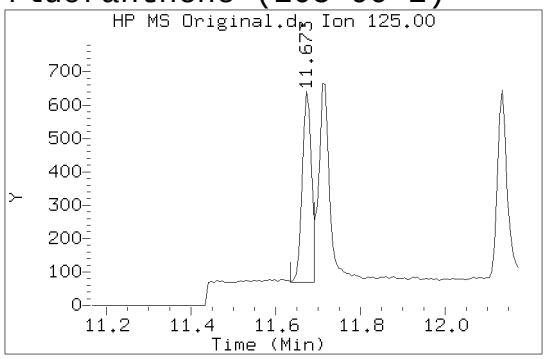
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(b)fluoranthene (205-99-2)

Reason Code:

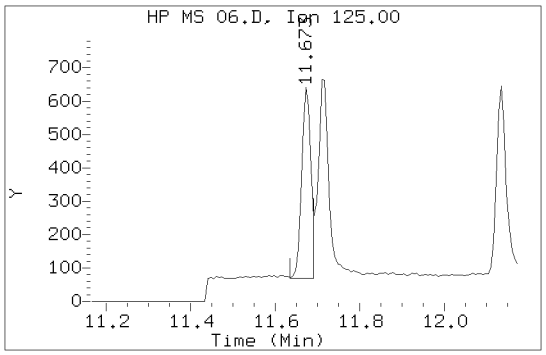
BEFORE

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

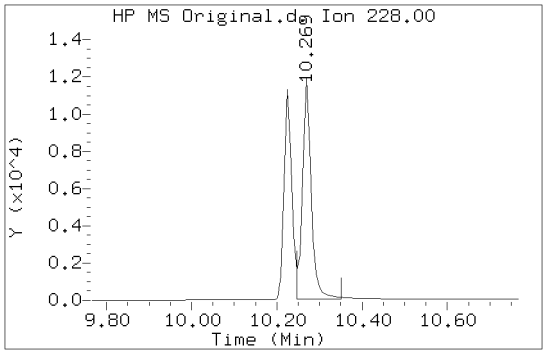


Chrysene (218-01-9)

Reason Code:

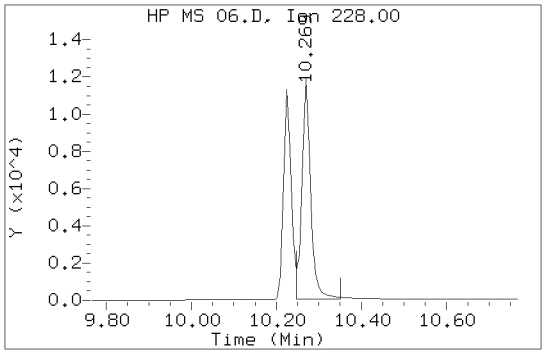
BEFORE

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



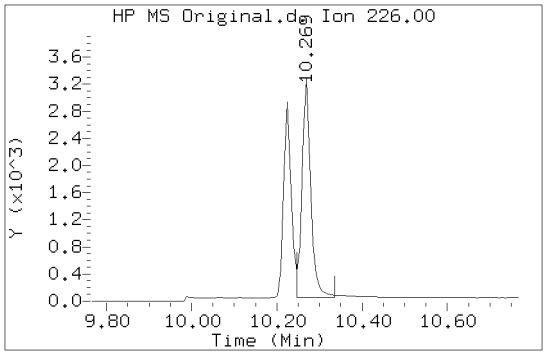
AFTER

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



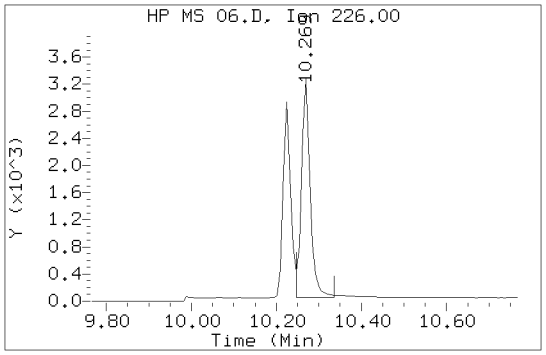
BEFORE

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



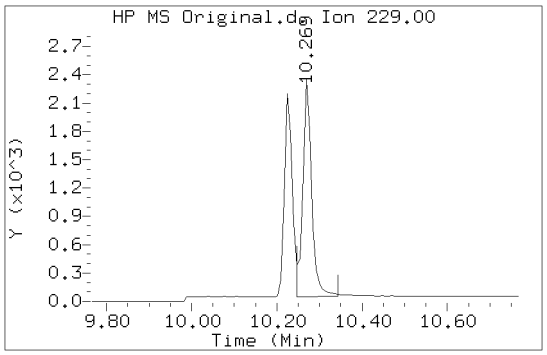
AFTER

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



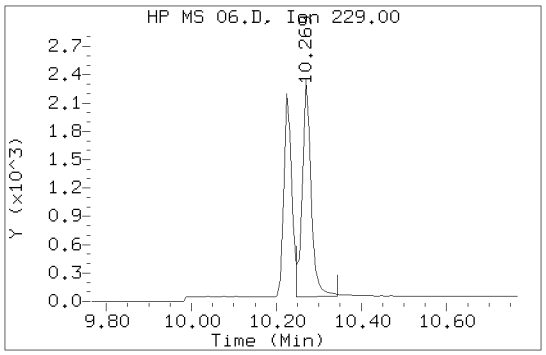
BEFORE

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



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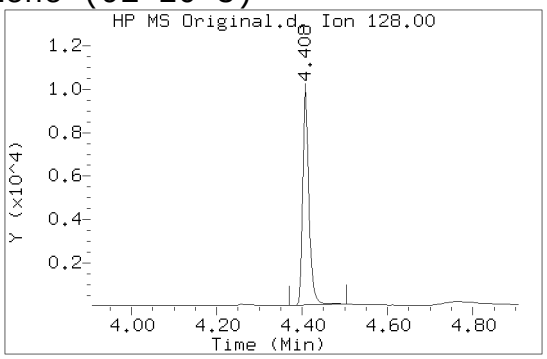
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene (91-20-3)

Reason Code:

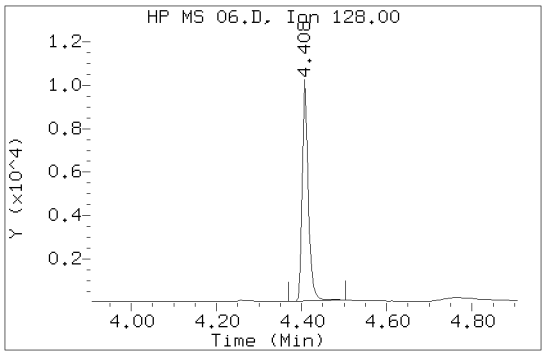
BEFORE

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



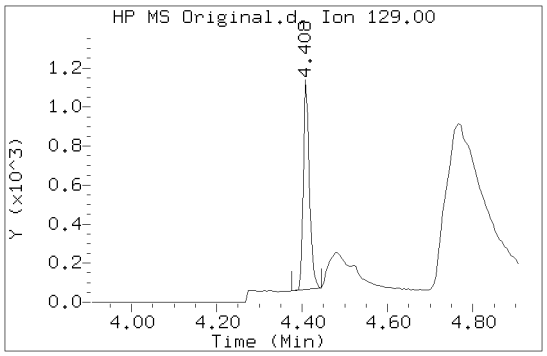
AFTER

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



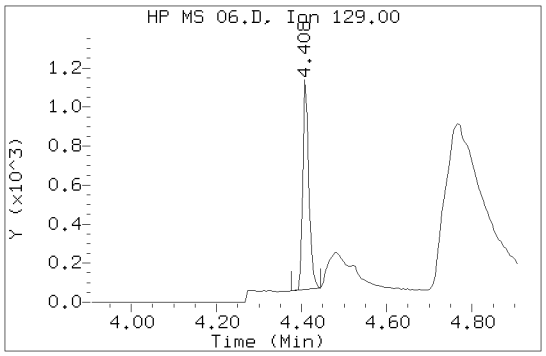
BEFORE

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham

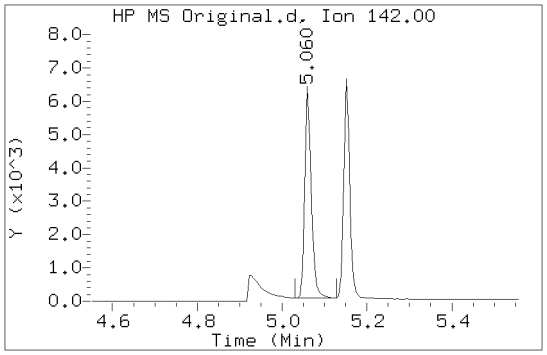


2-Methylnaphthalene (91-57-6)

Reason Code:

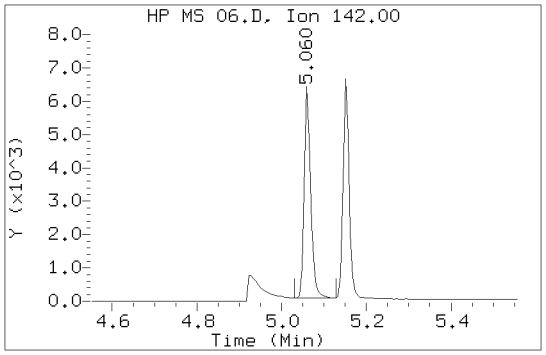
BEFORE

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



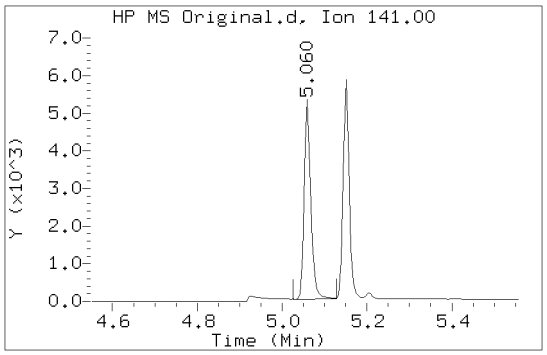
AFTER

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



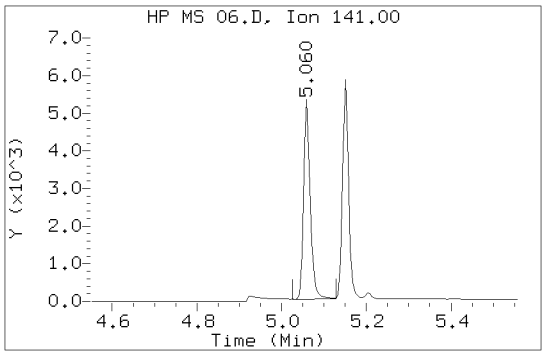
BEFORE

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



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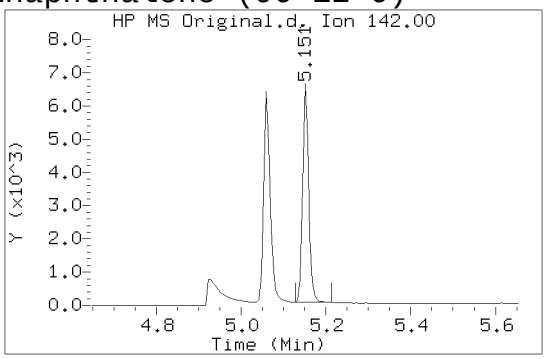
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

1-Methylnaphthalene (90-12-0)

Reason Code:

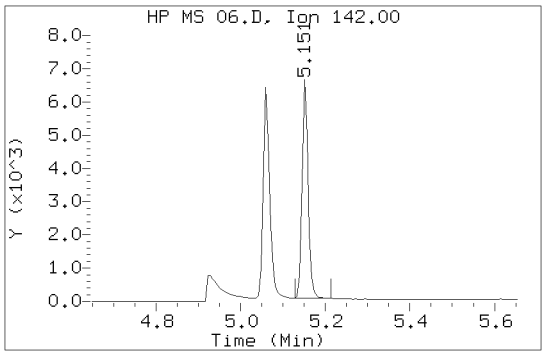
BEFORE

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



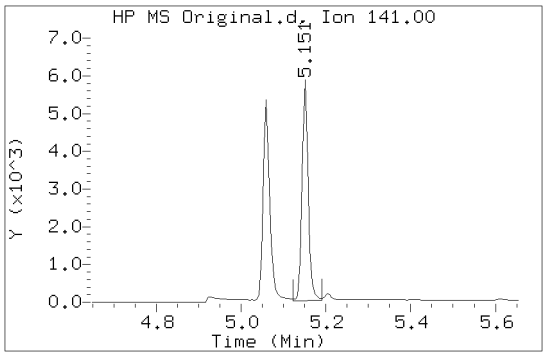
AFTER

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



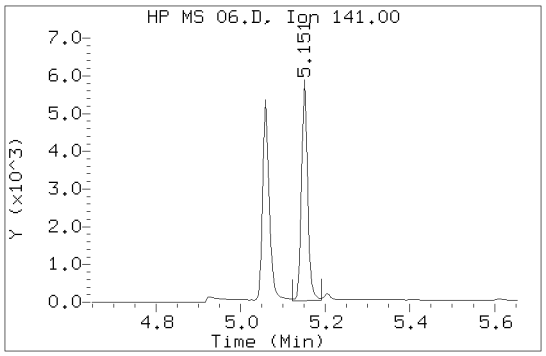
BEFORE

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham

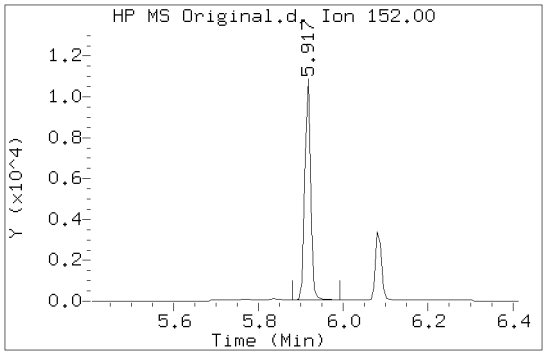


Acenaphthylene (208-96-8)

Reason Code:

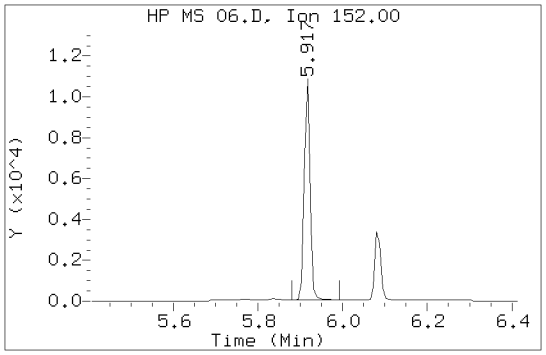
BEFORE

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



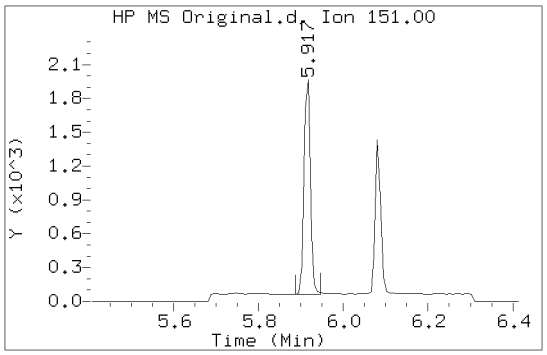
AFTER

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



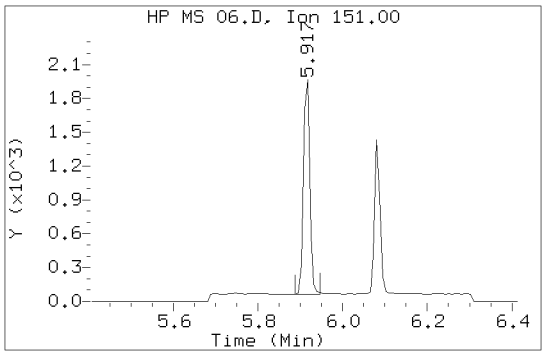
BEFORE

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



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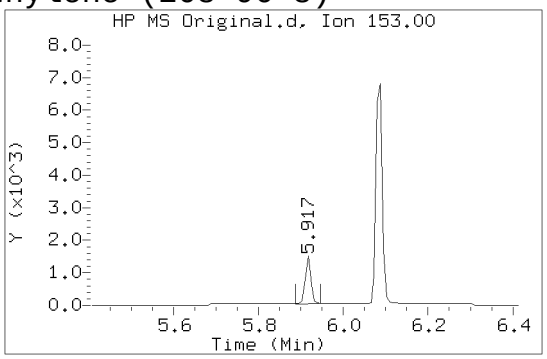
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthylene (208-96-8)

Reason Code:

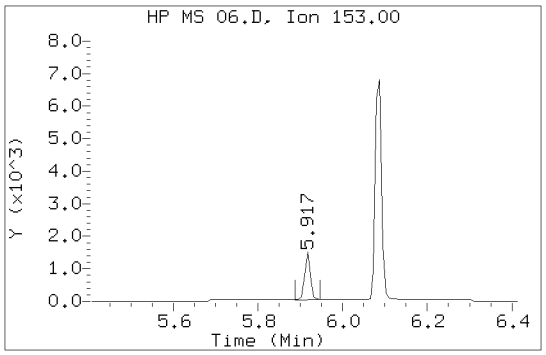
BEFORE

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

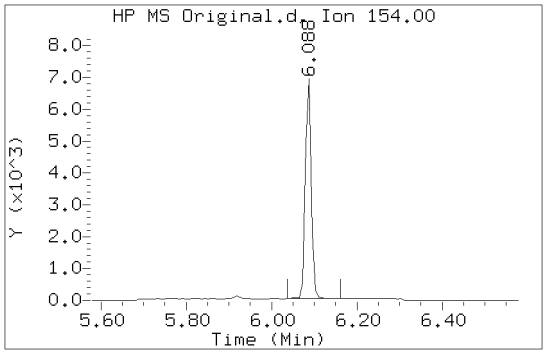


Acenaphthene (83-32-9)

Reason Code:

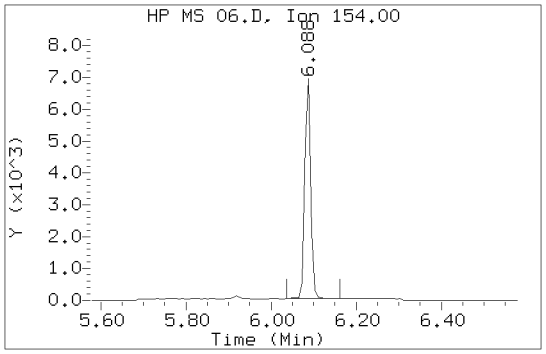
BEFORE

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



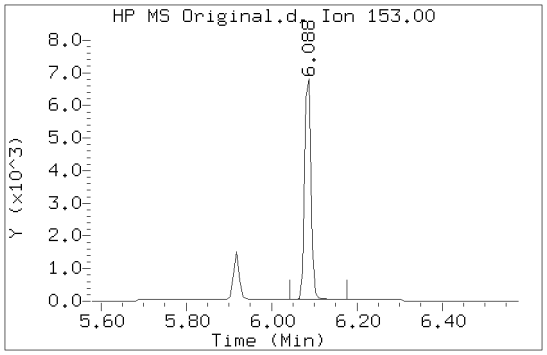
AFTER

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



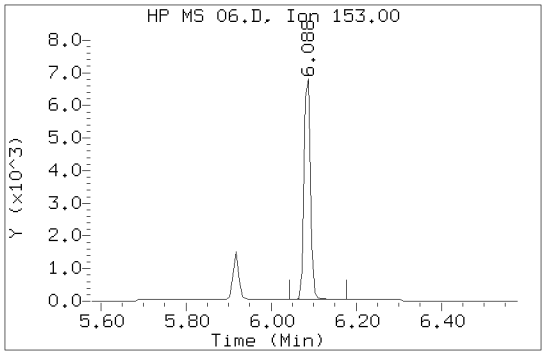
BEFORE

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



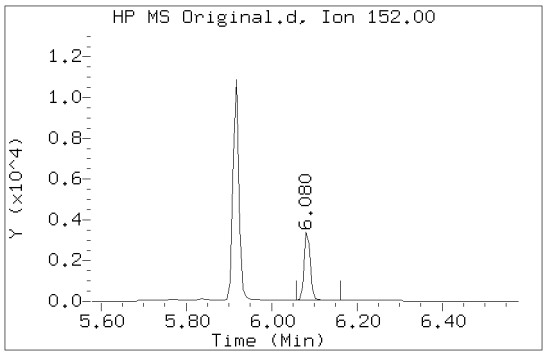
AFTER

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



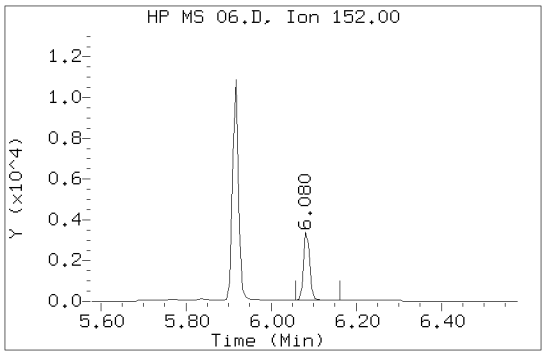
BEFORE

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



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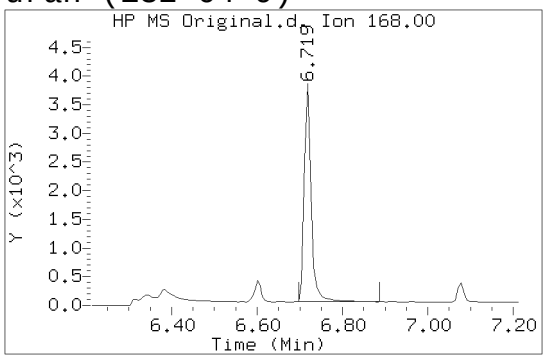
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzofuran (132-64-9)

Reason Code:

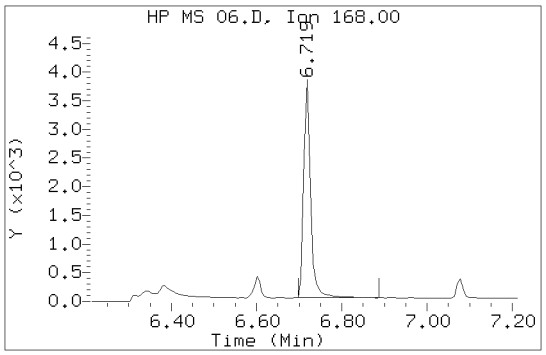
BEFORE

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



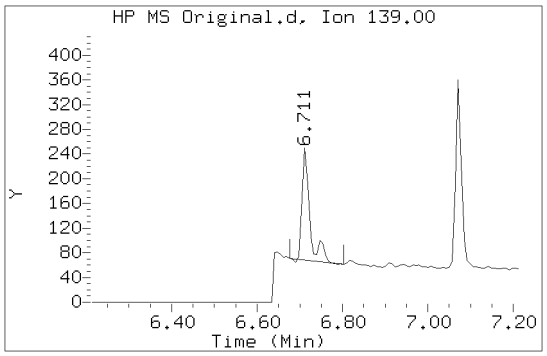
AFTER

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



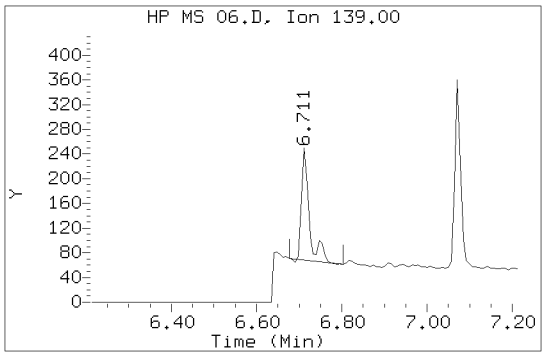
BEFORE

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

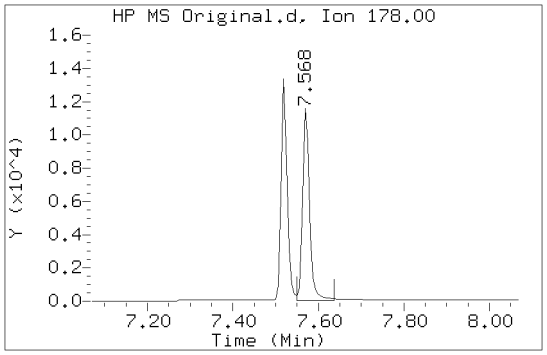


Anthracene (120-12-7)

Reason Code:

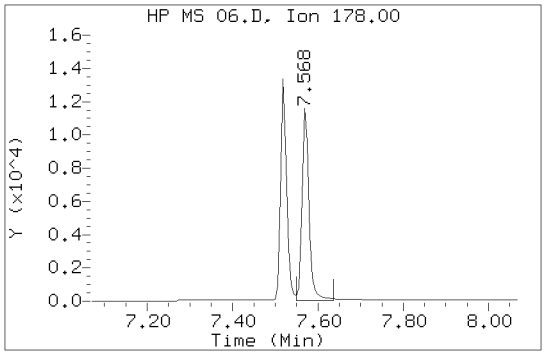
BEFORE

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



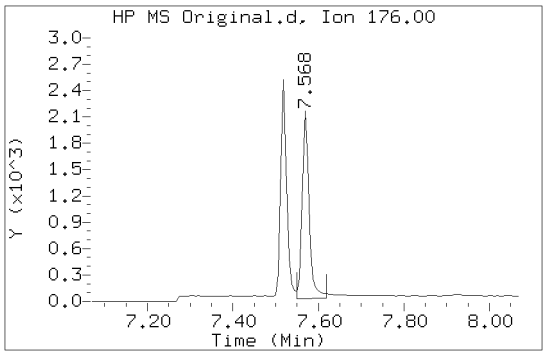
AFTER

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



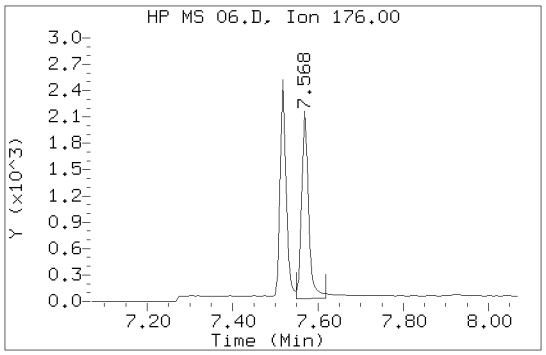
BEFORE

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



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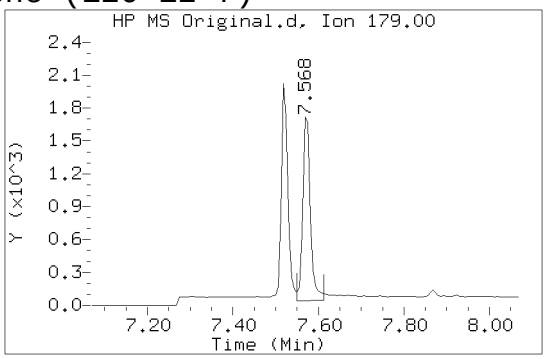
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Anthracene (120-12-7)

Reason Code:

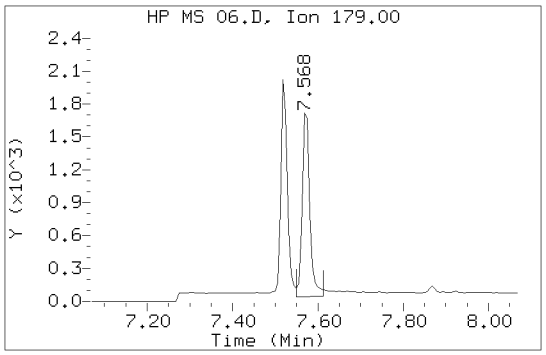
BEFORE

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham

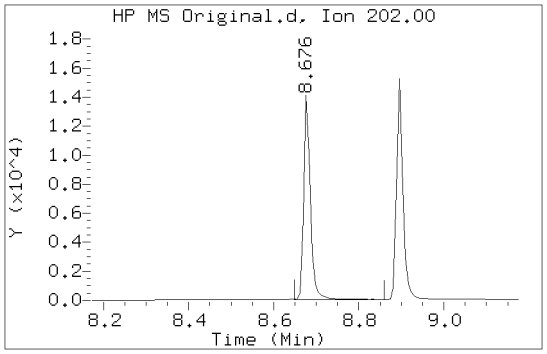


Fluoranthene (206-44-0)

Reason Code:

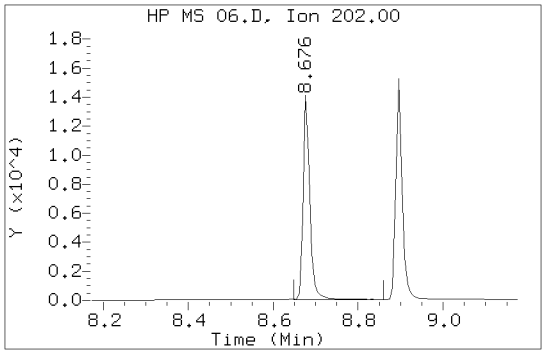
BEFORE

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



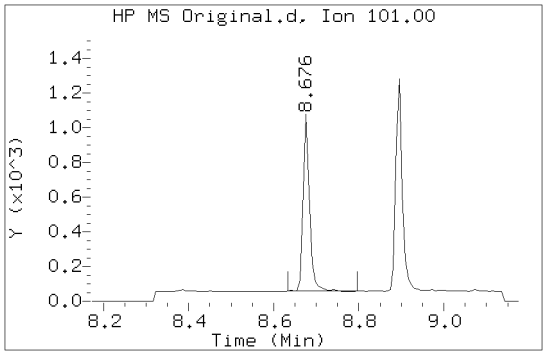
AFTER

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



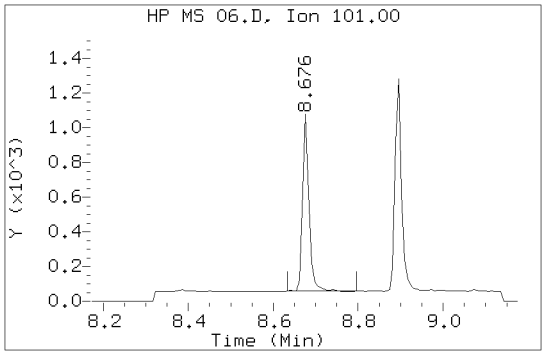
BEFORE

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



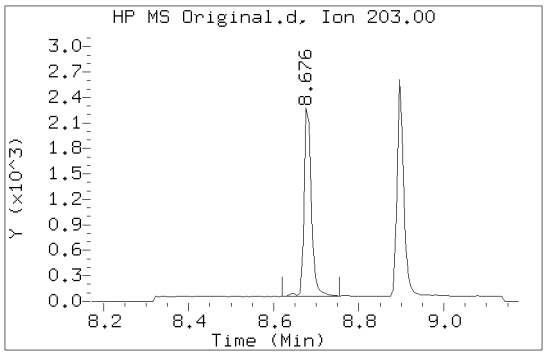
AFTER

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



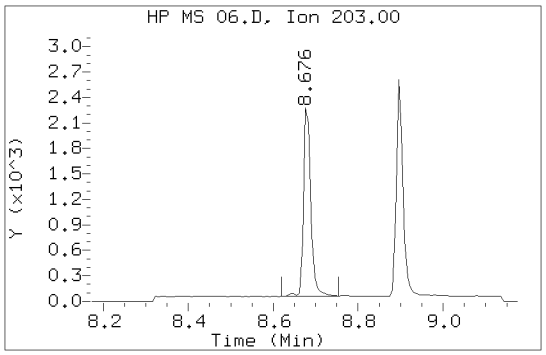
BEFORE

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



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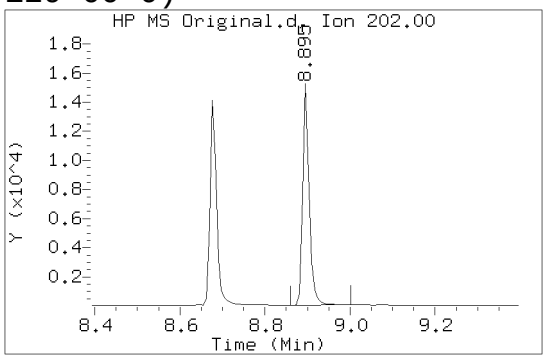
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Pyrene (129-00-0)

Reason Code:

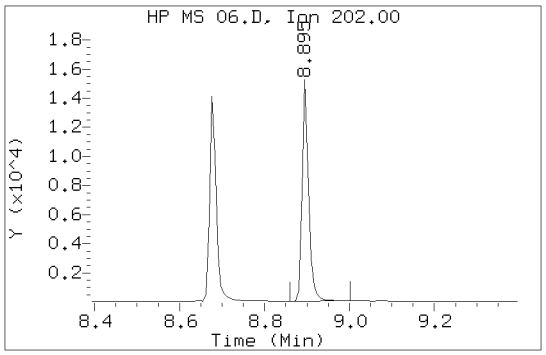
BEFORE

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



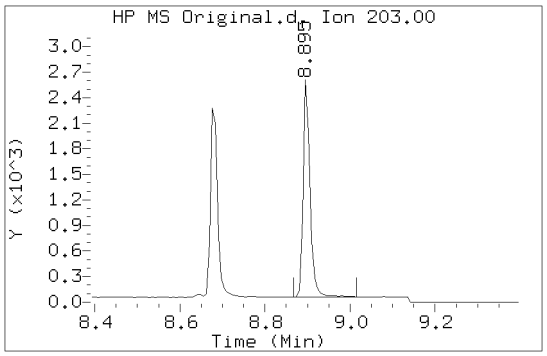
AFTER

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



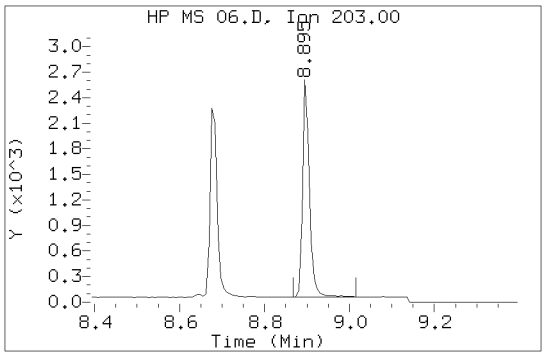
BEFORE

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



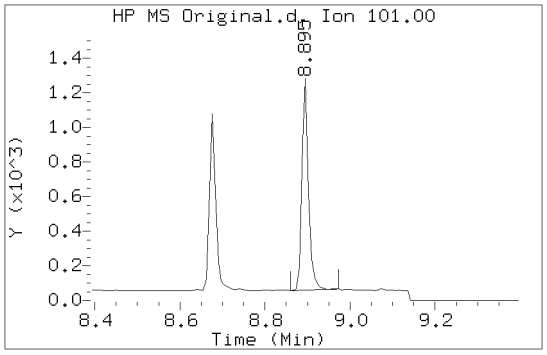
AFTER

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



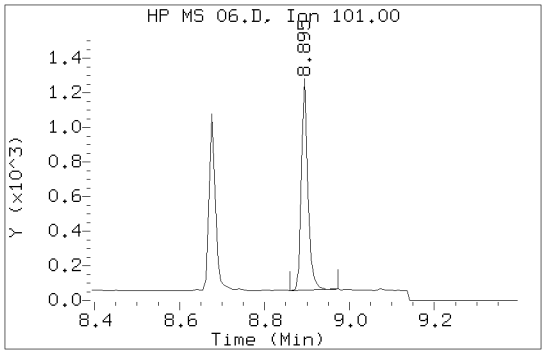
BEFORE

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham

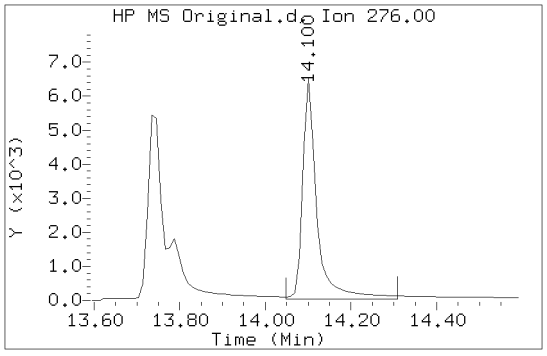


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

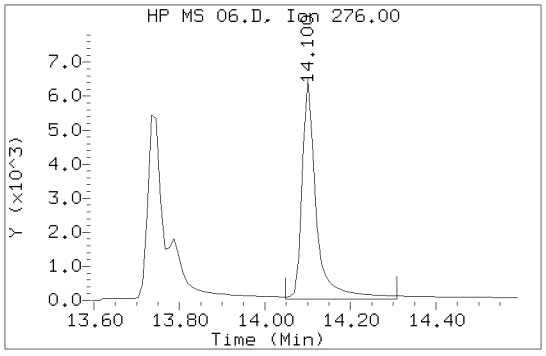
BEFORE

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



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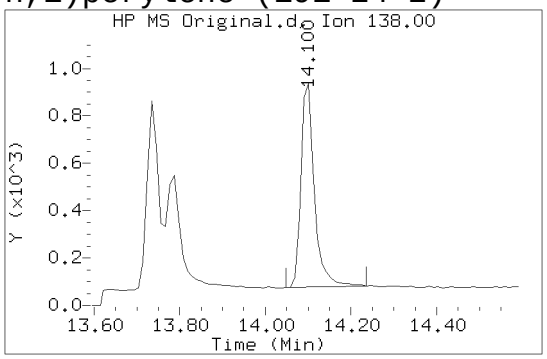
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

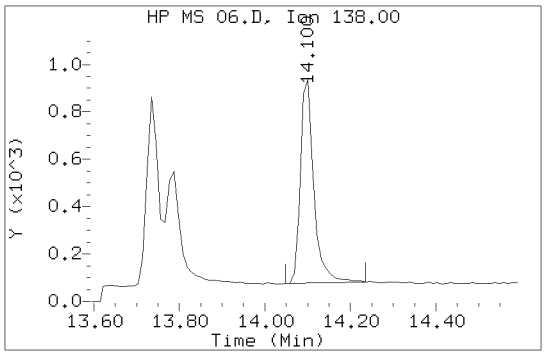
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

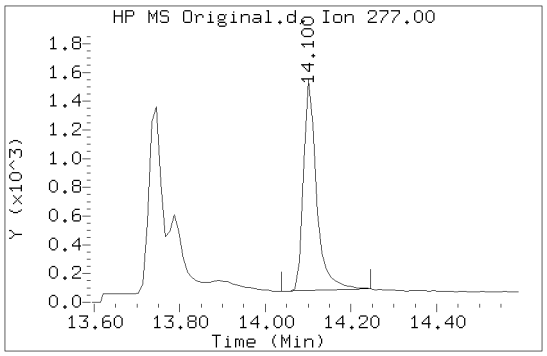
BEFORE
MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



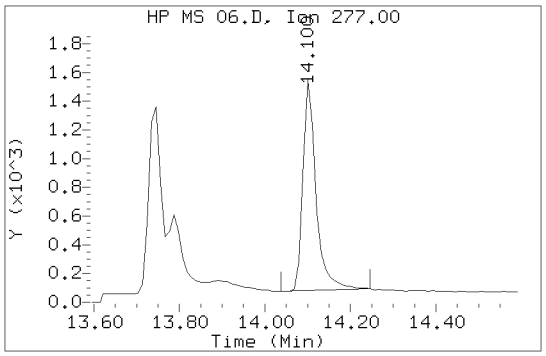
AFTER
MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



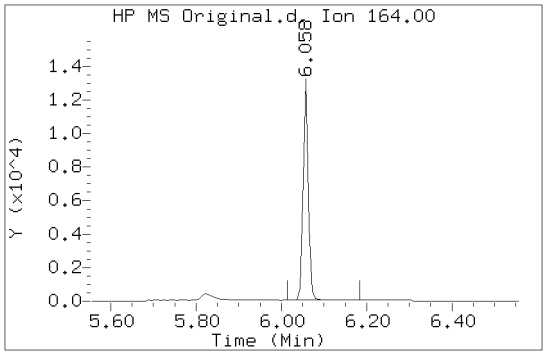
AFTER
MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



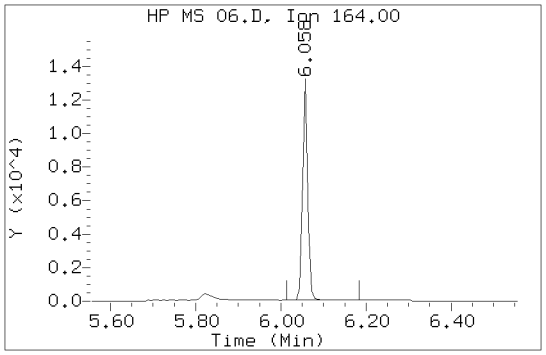
Acenaphthene-d10 (15067-26-2)

Reason Code:

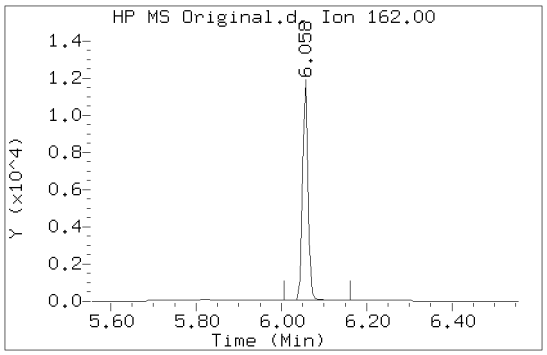
BEFORE
MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



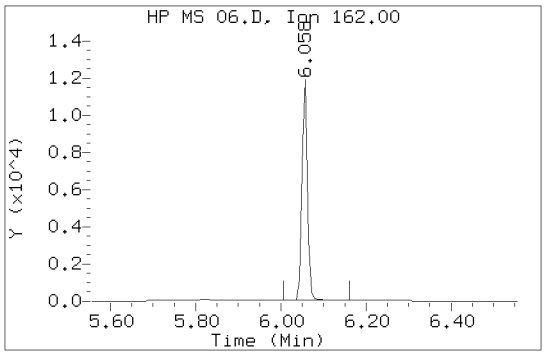
AFTER
MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



AFTER
MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



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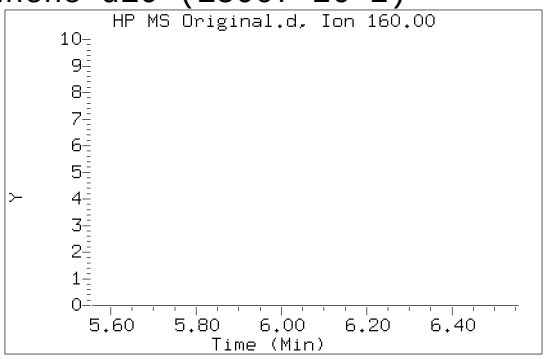
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthene-d10 (15067-26-2)

Reason Code:

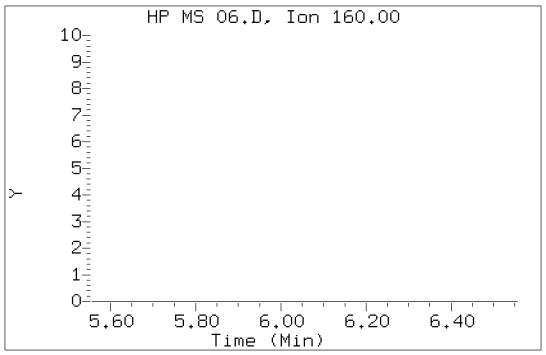
BEFORE

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

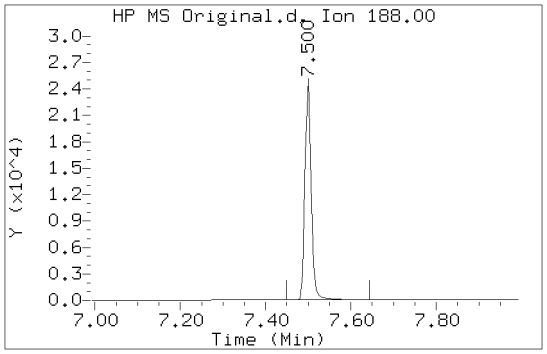


Phenanthrene-d10 (1517-22-2)

Reason Code:

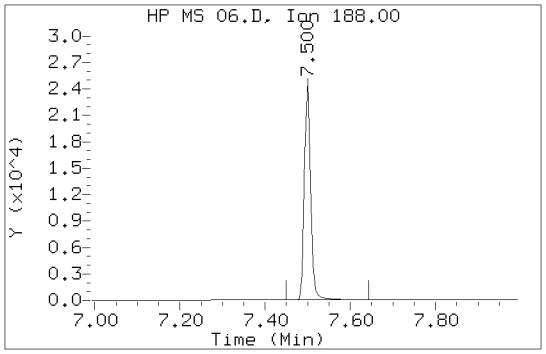
BEFORE

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



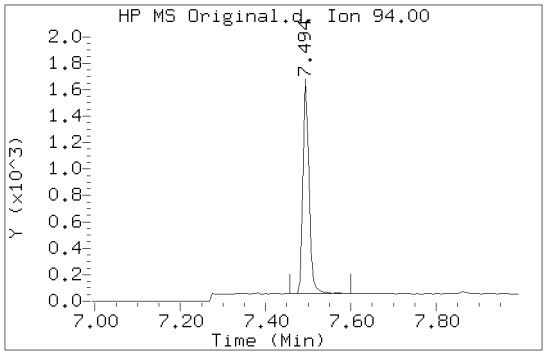
AFTER

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



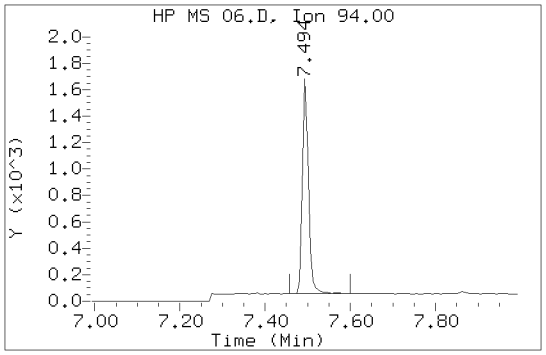
BEFORE

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



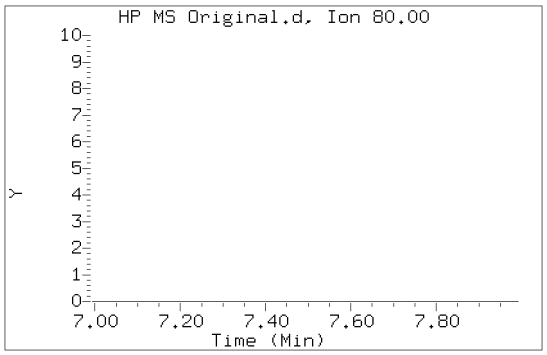
AFTER

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



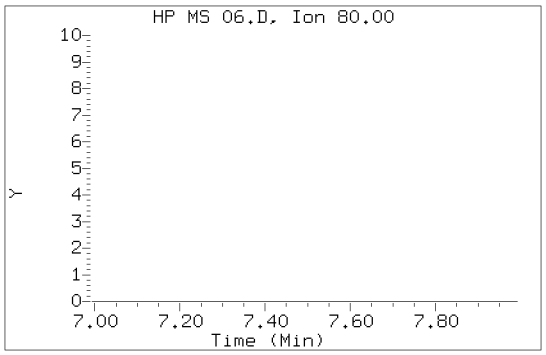
BEFORE

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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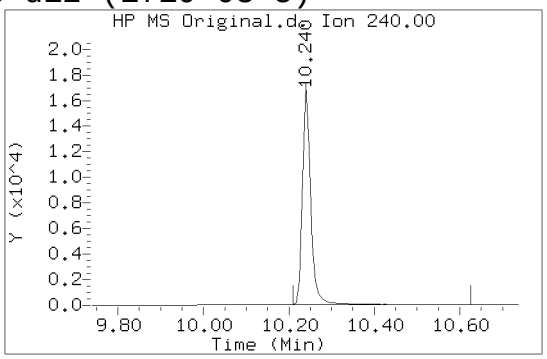
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Chrysene-d12 (1719-03-5)

Reason Code:

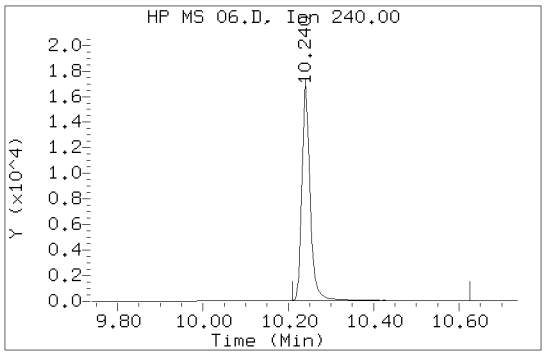
BEFORE

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



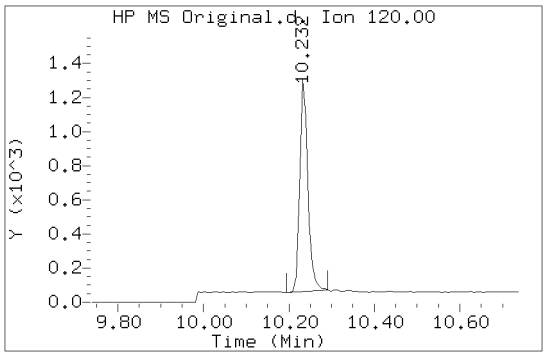
AFTER

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



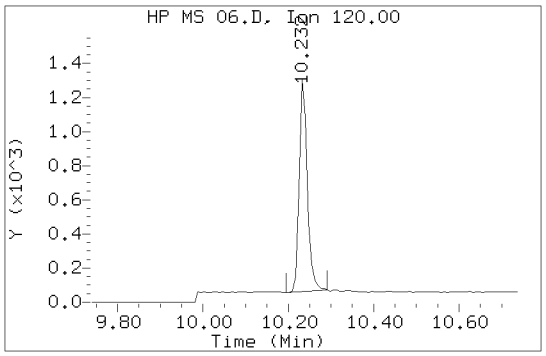
BEFORE

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



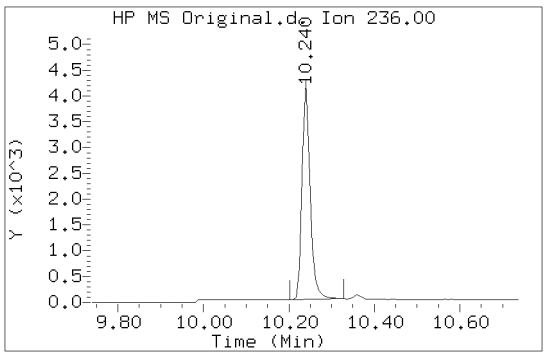
AFTER

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



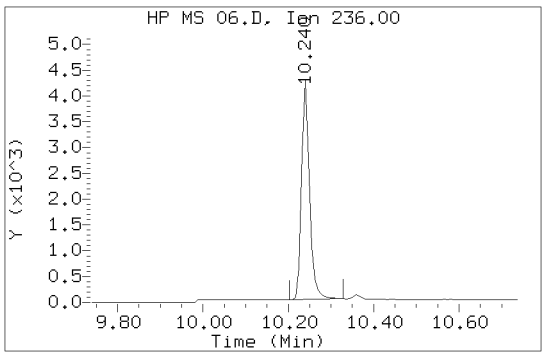
BEFORE

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

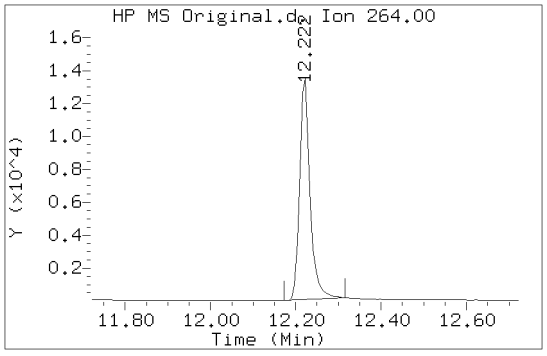


Perylene-d12 (1520-96-3)

Reason Code:

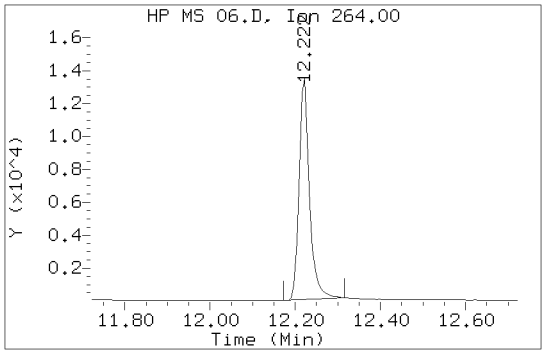
BEFORE

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



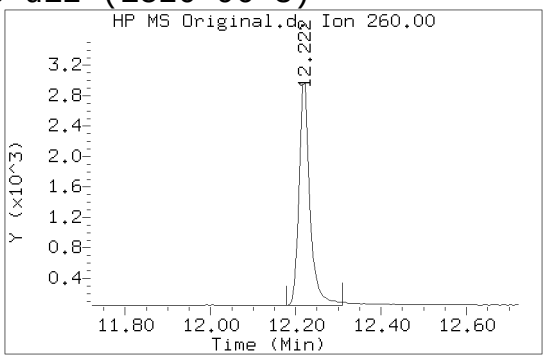
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Perylene-d12 (1520-96-3)

Reason Code:

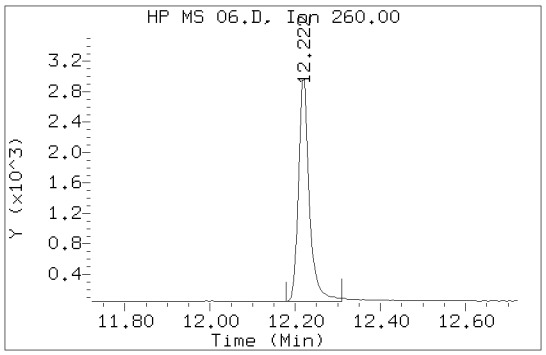
BEFORE

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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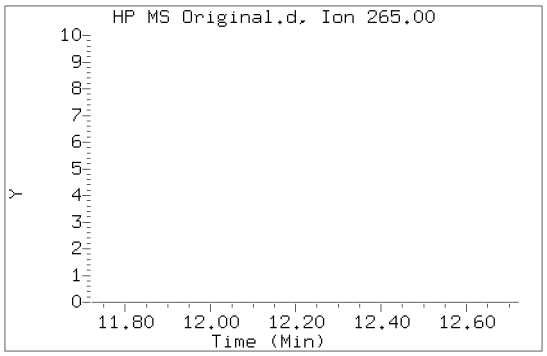
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
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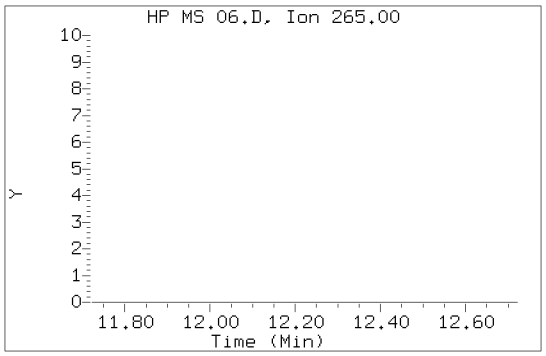
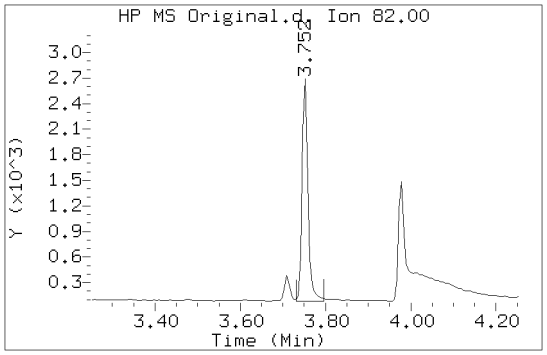


Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
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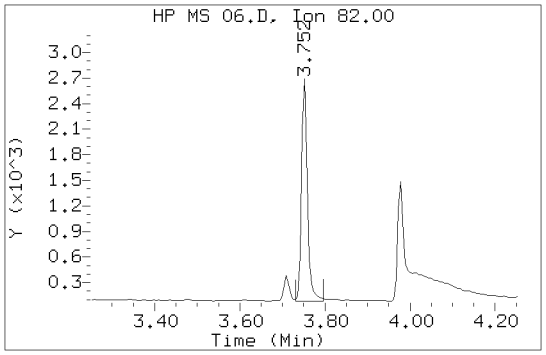
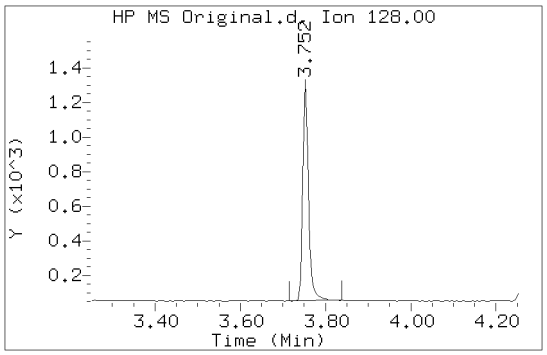
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



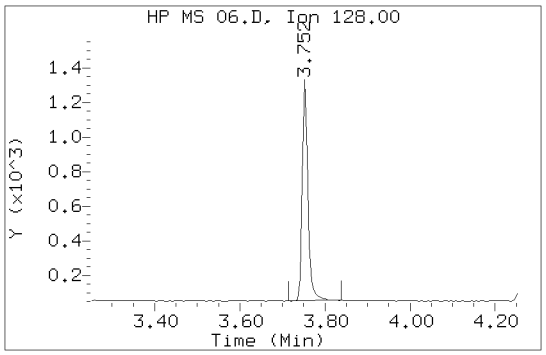
BEFORE

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



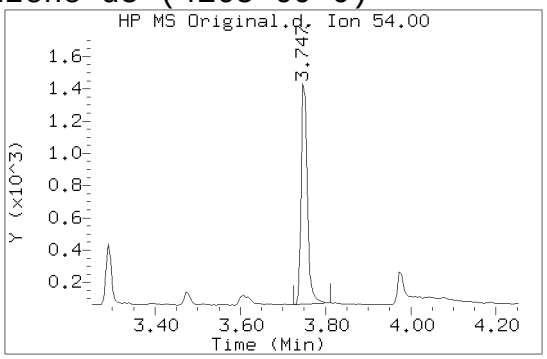
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Nitrobenzene-d5 (4165-60-0)

Reason Code:

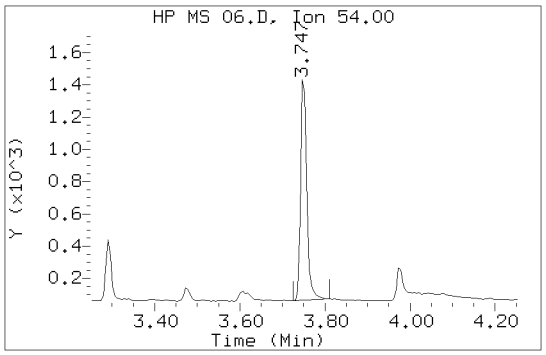
BEFORE

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham

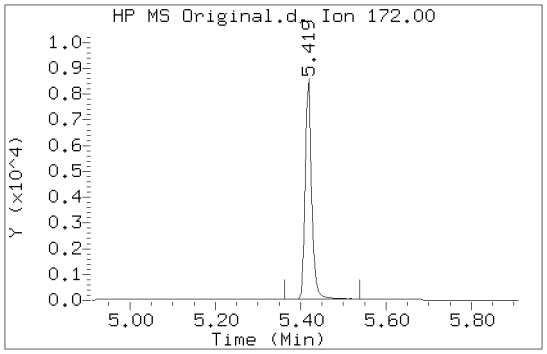


2-Fluorobiphenyl (321-60-8)

Reason Code:

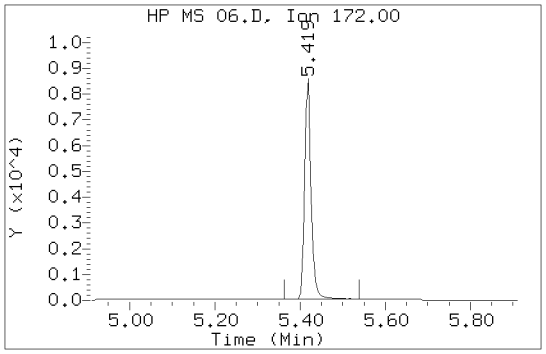
BEFORE

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



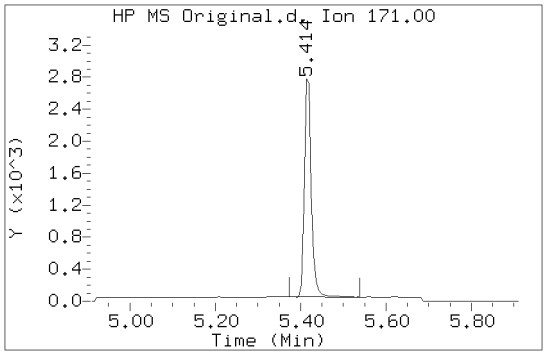
AFTER

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



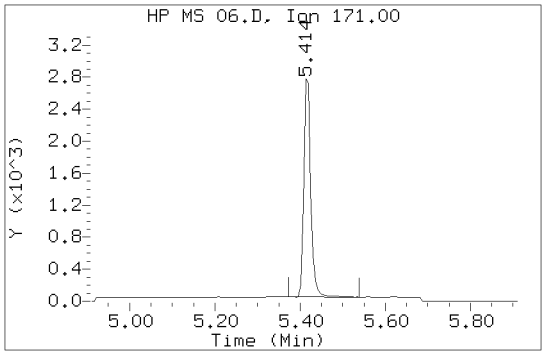
BEFORE

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham

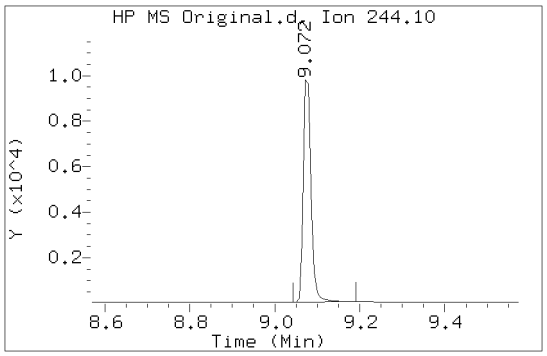


4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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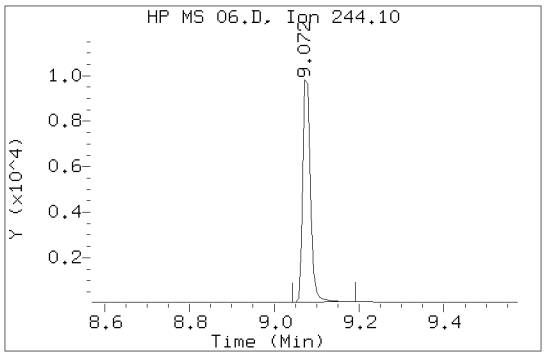
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



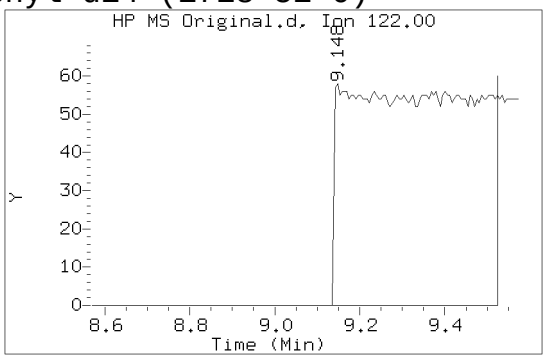
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

4-Terphenyl-d14 (1718-51-0)

Reason Code:

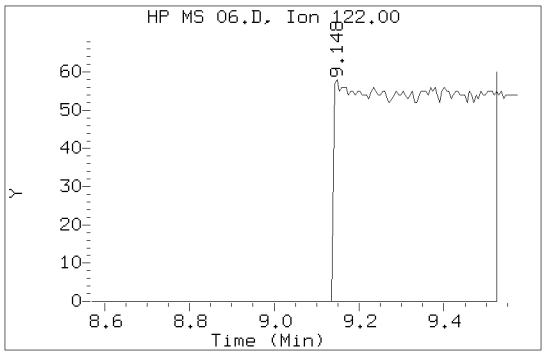
BEFORE

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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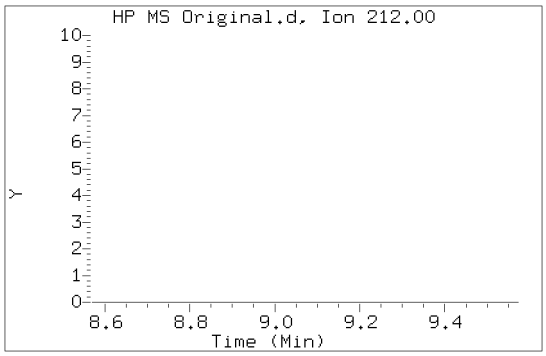
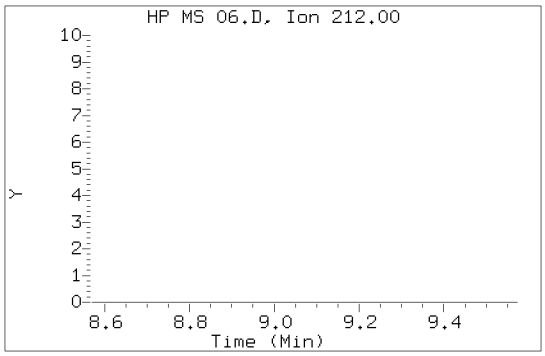
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.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\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

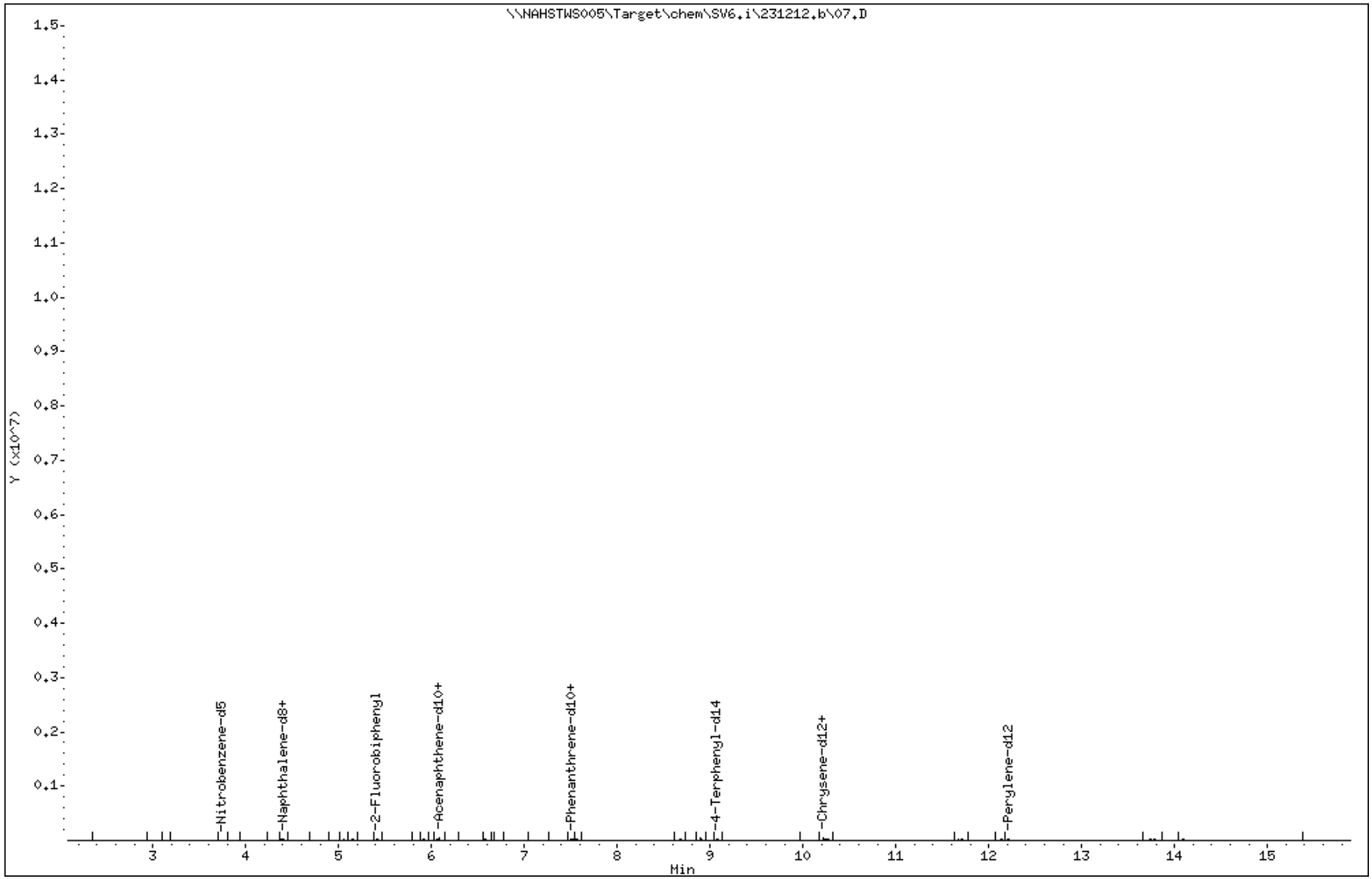
Sample Info: PAHSIM-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



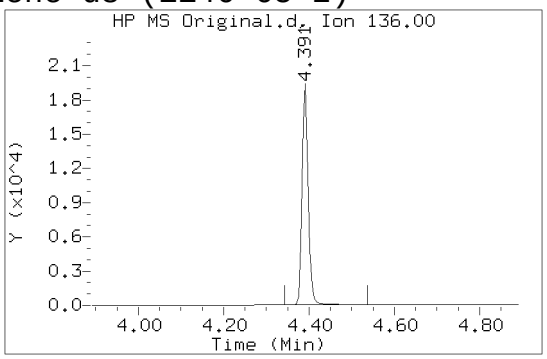
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

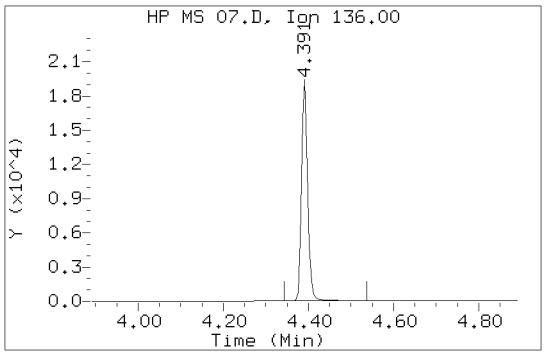
BEFORE

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



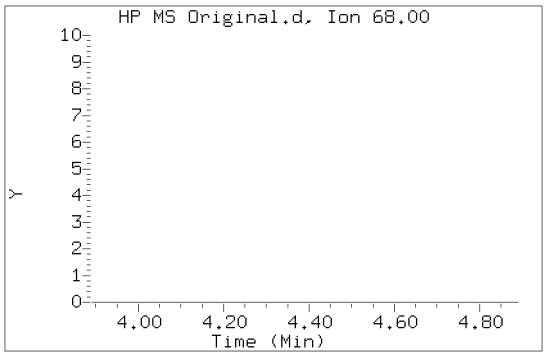
AFTER

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



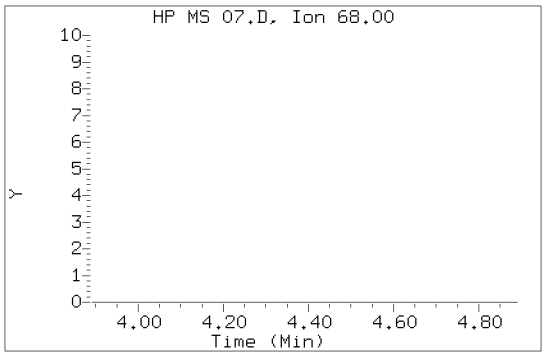
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

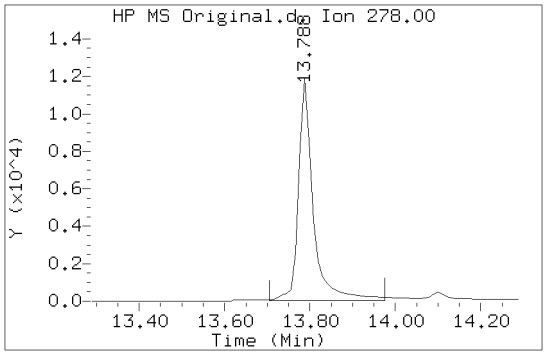


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

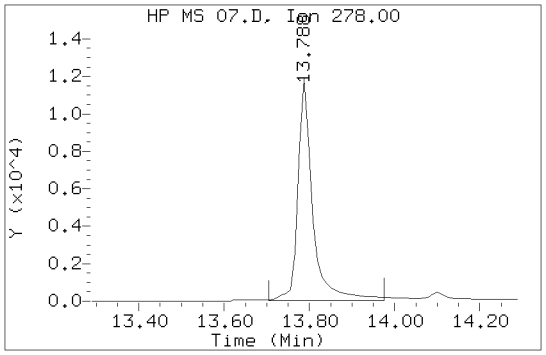
BEFORE

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



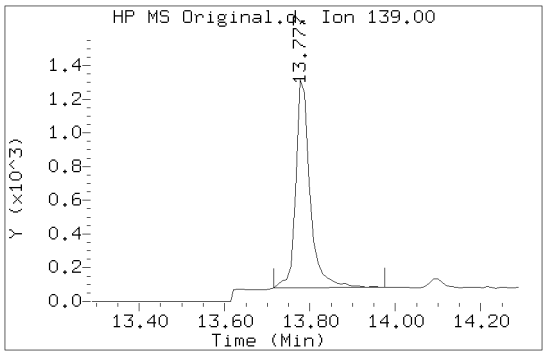
AFTER

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



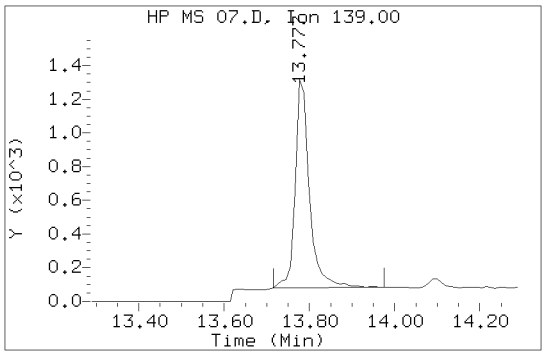
BEFORE

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



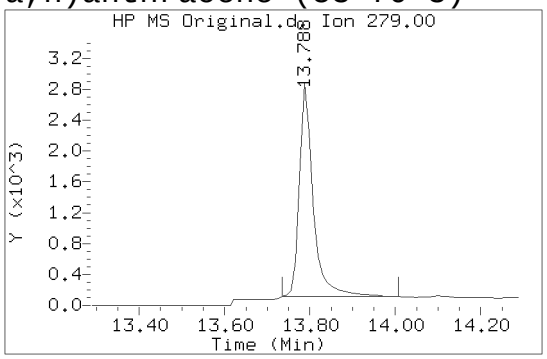
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

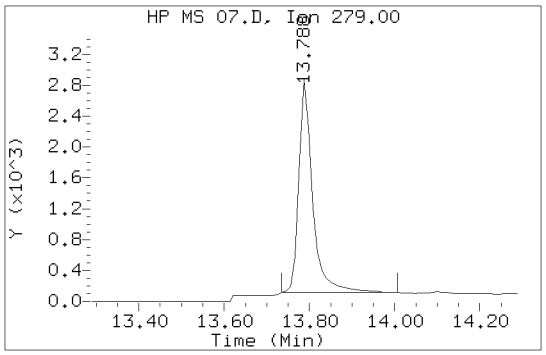
BEFORE

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham

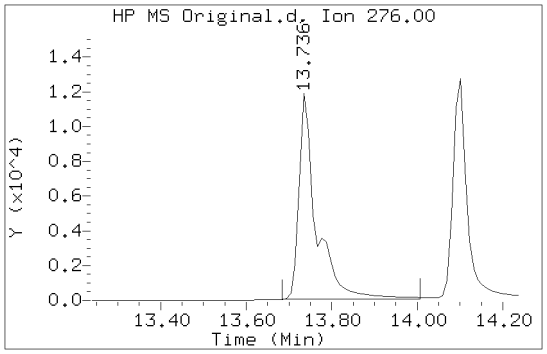


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

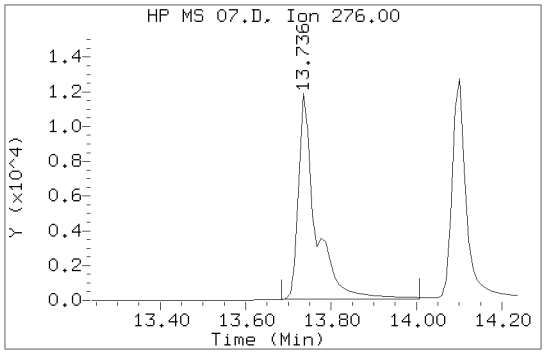
BEFORE

MASS
276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



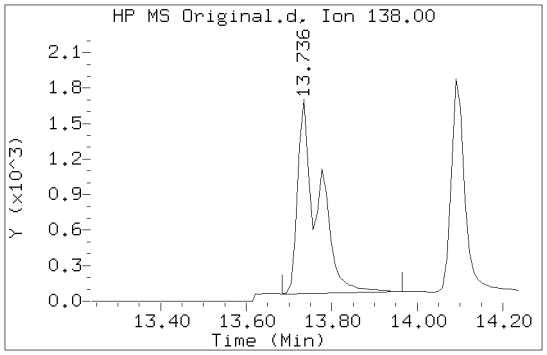
AFTER

MASS
276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



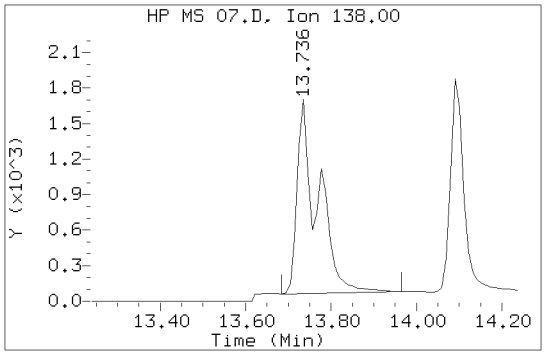
BEFORE

MASS
138
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



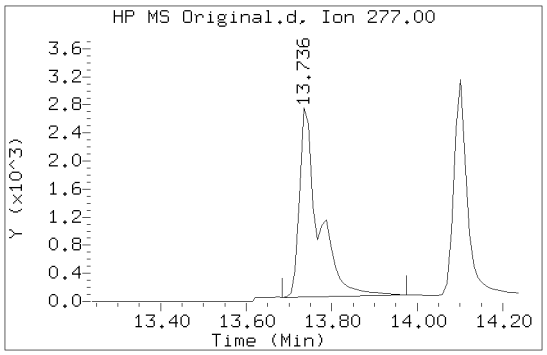
AFTER

MASS
138
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



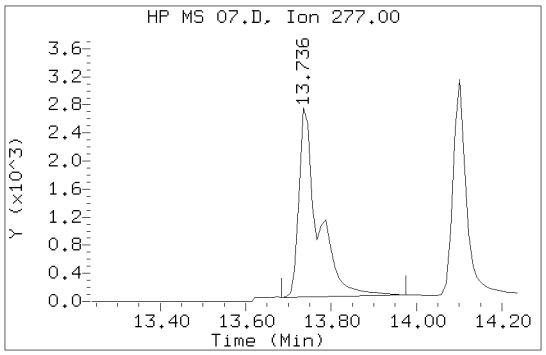
BEFORE

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



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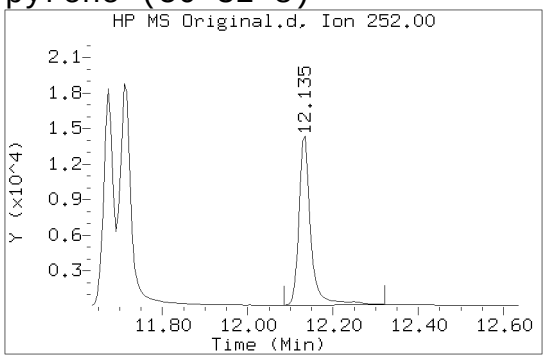
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(a)pyrene (50-32-8)

Reason Code:

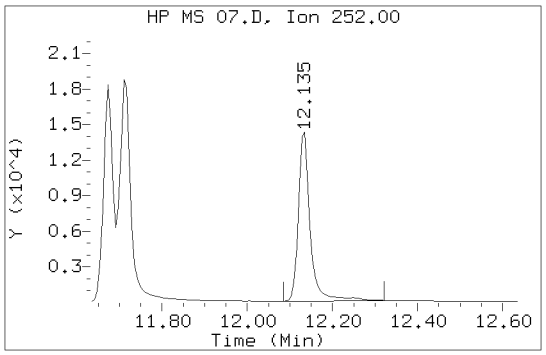
BEFORE

MASS
252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



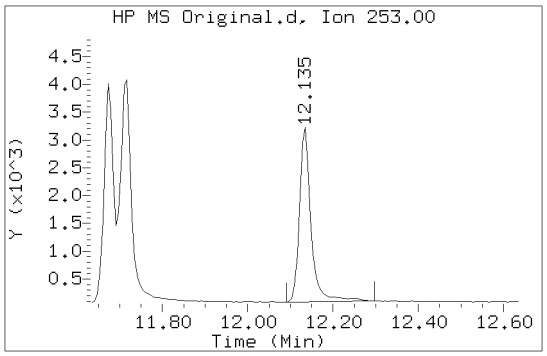
AFTER

MASS
252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



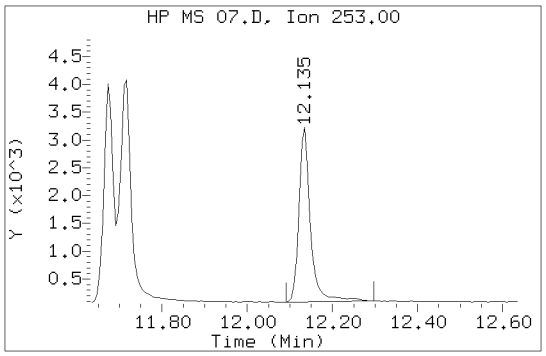
BEFORE

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



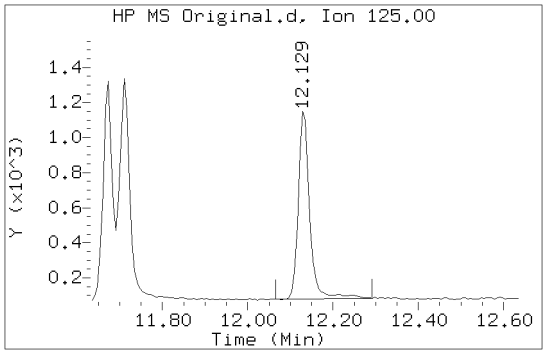
AFTER

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



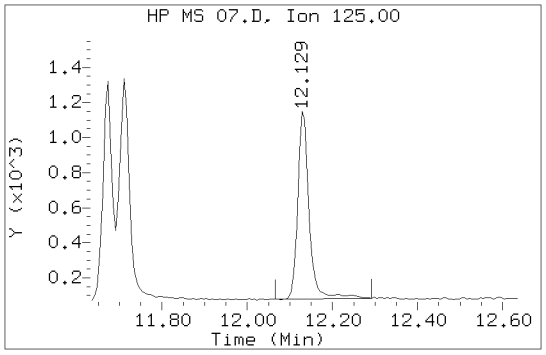
BEFORE

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

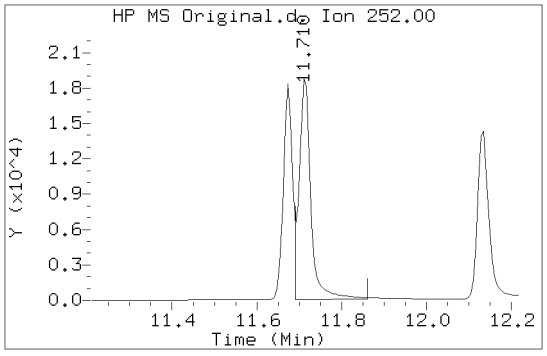


Benzo(k)fluoranthene (207-08-9)

Reason Code:

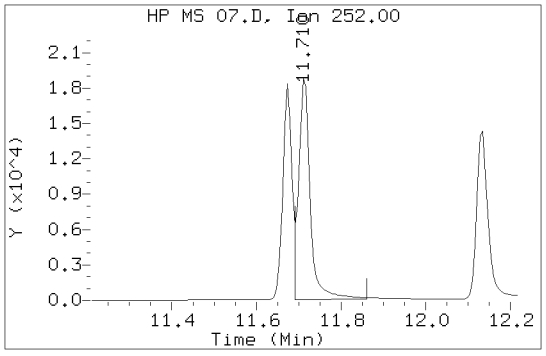
BEFORE

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



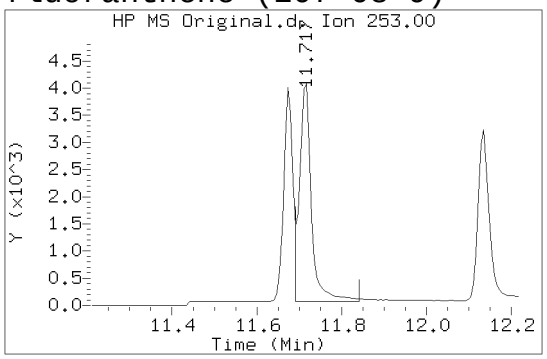
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(k)fluoranthene (207-08-9)

Reason Code:

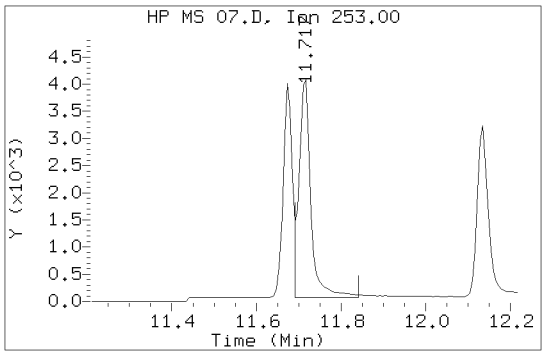
BEFORE

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



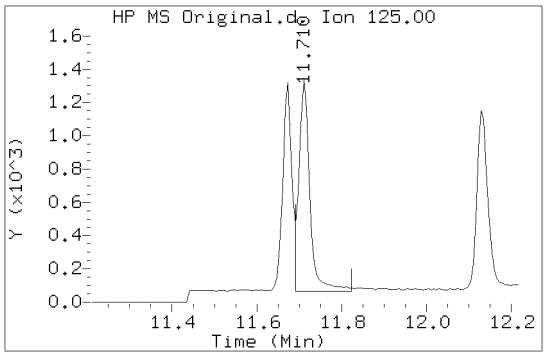
AFTER

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



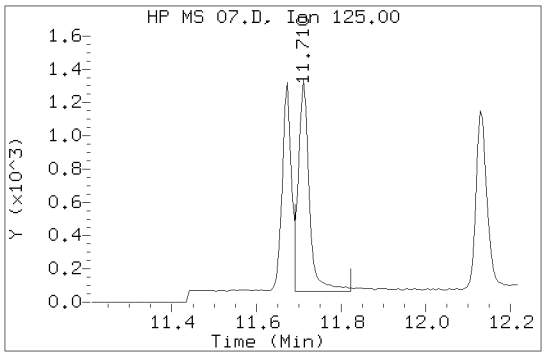
BEFORE

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

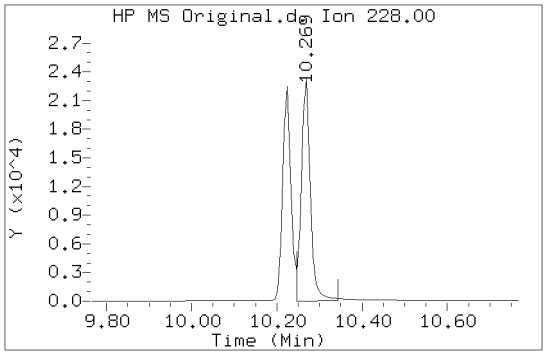


Chrysene (218-01-9)

Reason Code:

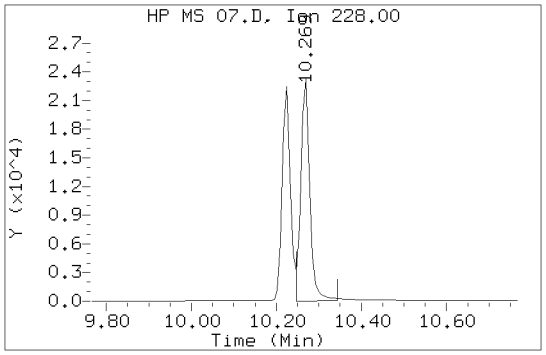
BEFORE

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



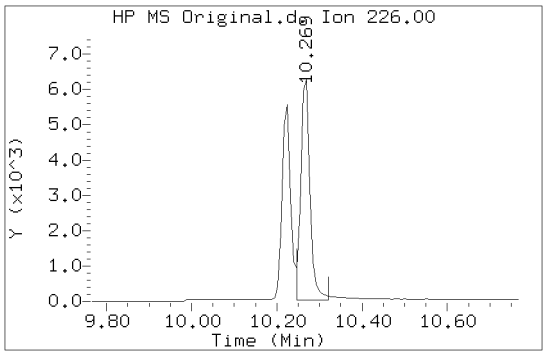
AFTER

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



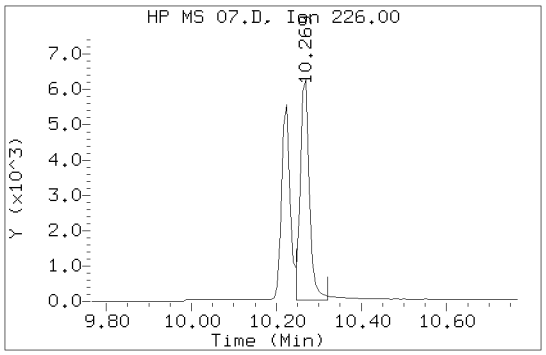
BEFORE

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



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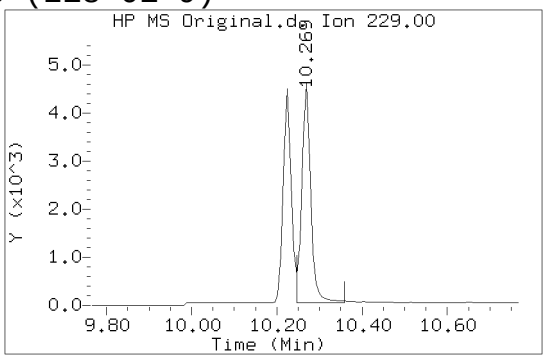
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Chrysene (218-01-9)

Reason Code:

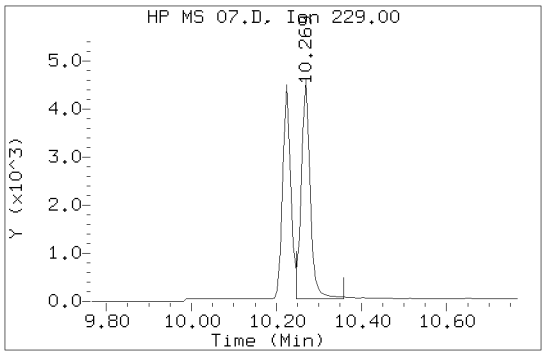
BEFORE

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham

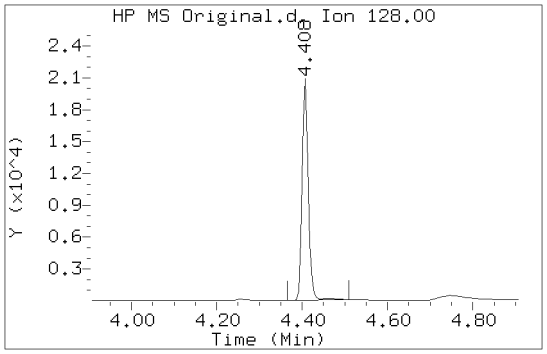


Naphthalene (91-20-3)

Reason Code:

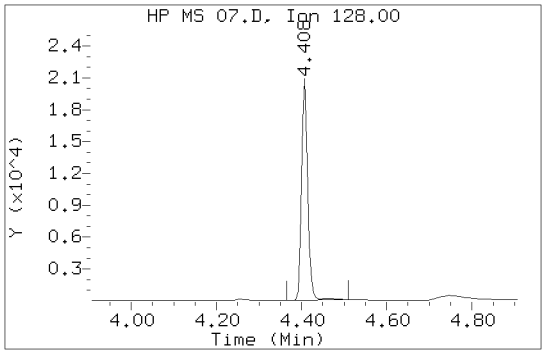
BEFORE

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



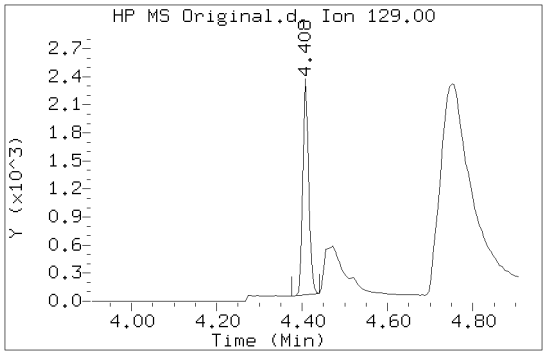
AFTER

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



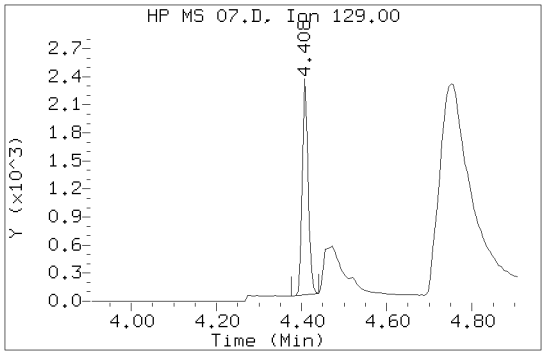
BEFORE

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham

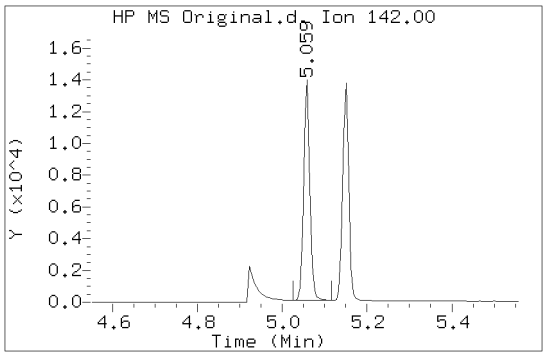


2-Methylnaphthalene (91-57-6)

Reason Code:

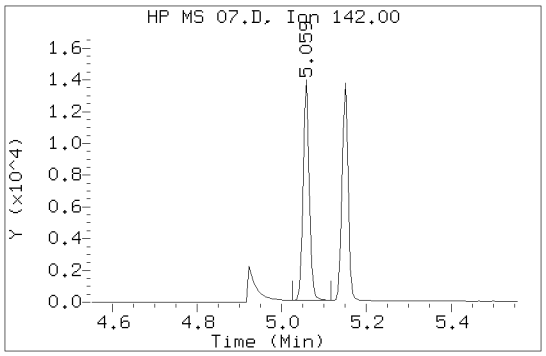
BEFORE

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



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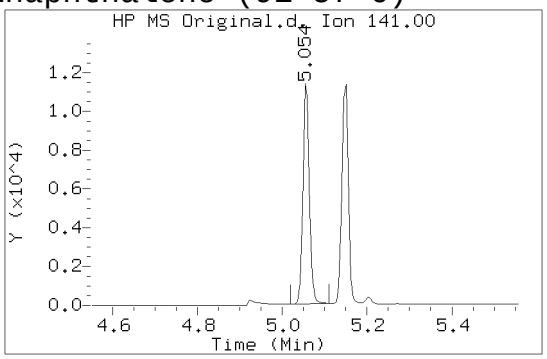
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

2-Methylnaphthalene (91-57-6)

Reason Code:

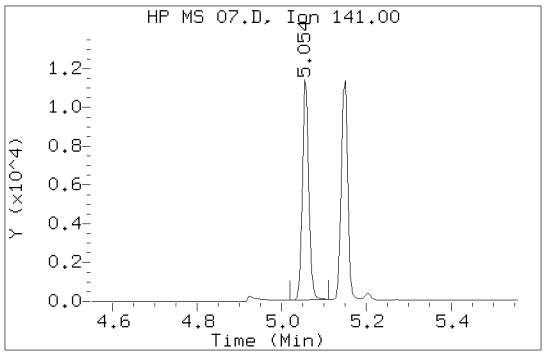
BEFORE

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

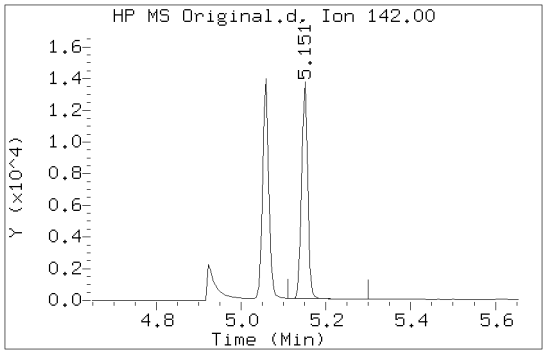


1-Methylnaphthalene (90-12-0)

Reason Code:

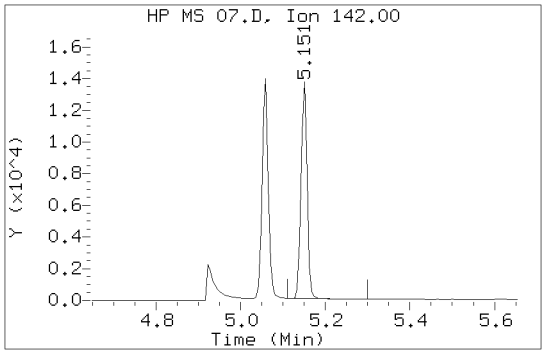
BEFORE

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



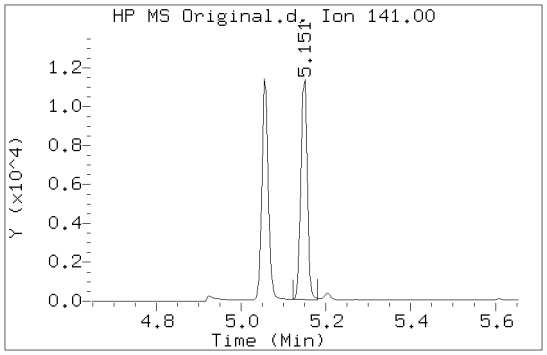
AFTER

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



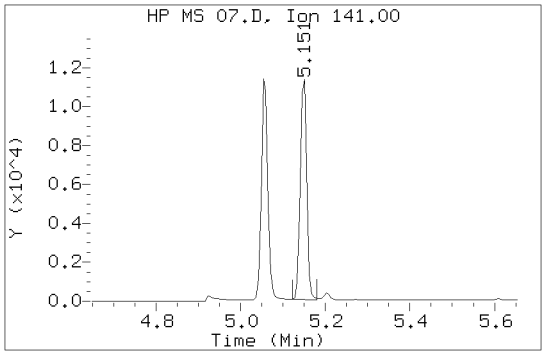
BEFORE

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

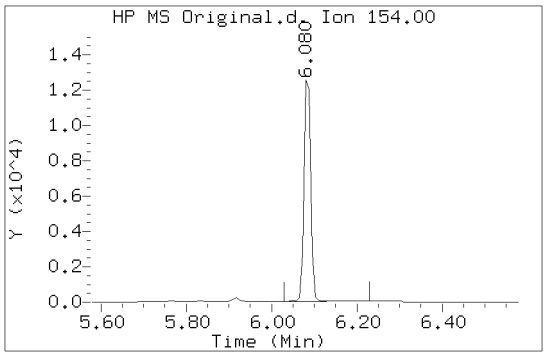


Acenaphthene (83-32-9)

Reason Code:

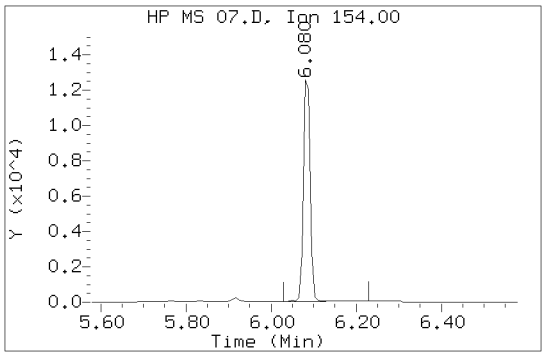
BEFORE

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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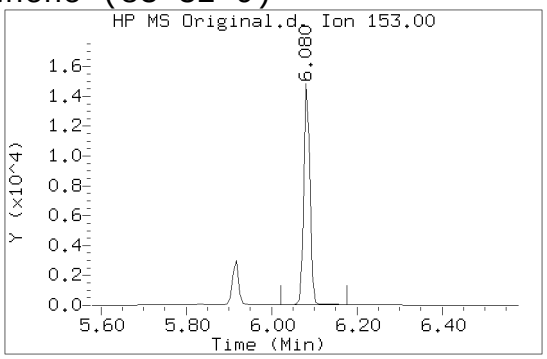
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene (83-32-9)

Reason Code:

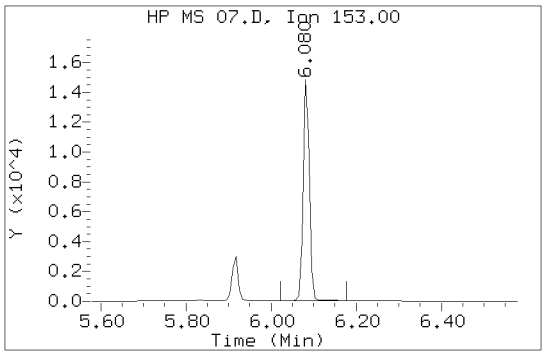
BEFORE

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



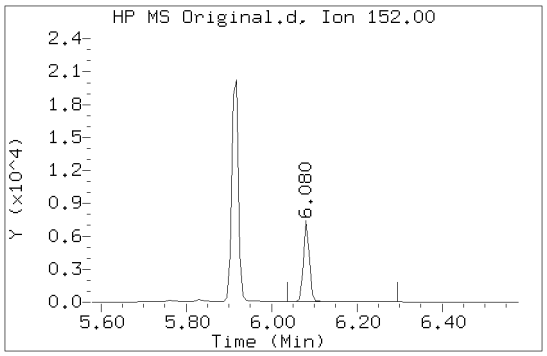
AFTER

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



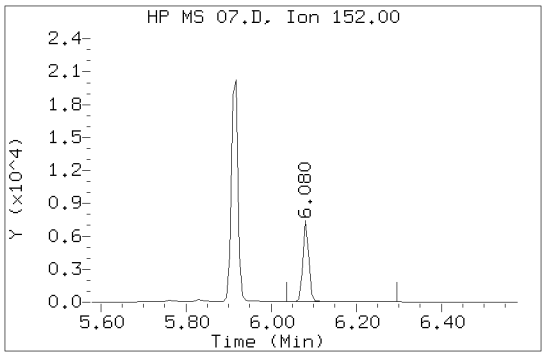
BEFORE

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

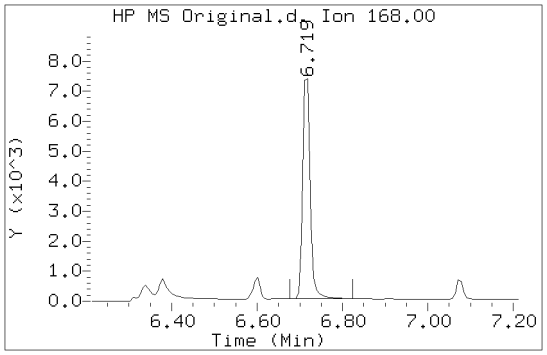


Dibenzofuran (132-64-9)

Reason Code:

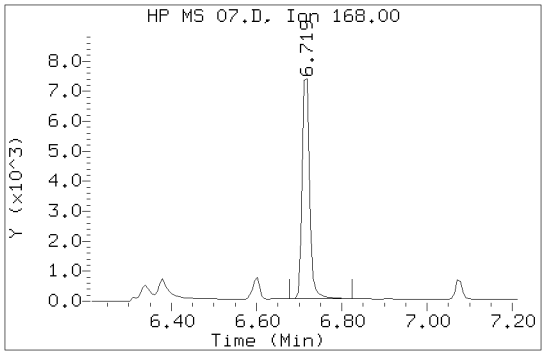
BEFORE

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



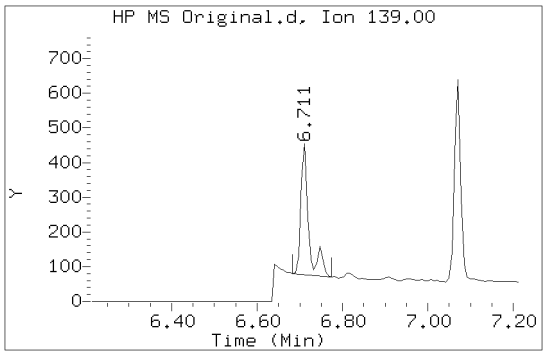
AFTER

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



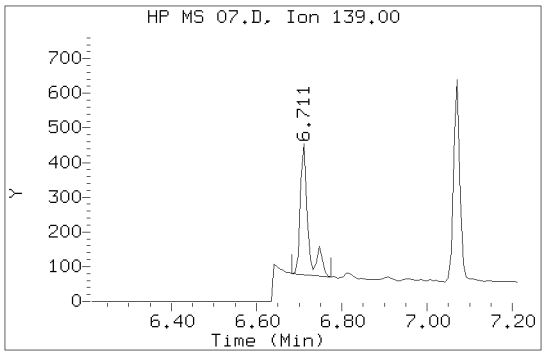
BEFORE

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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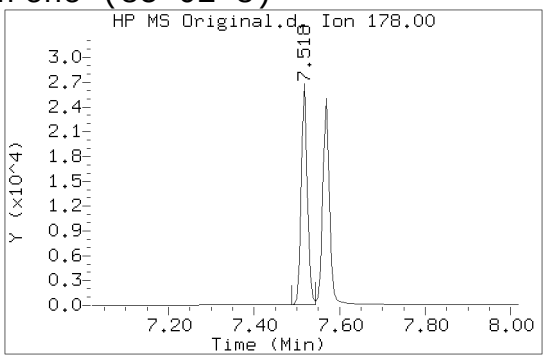
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

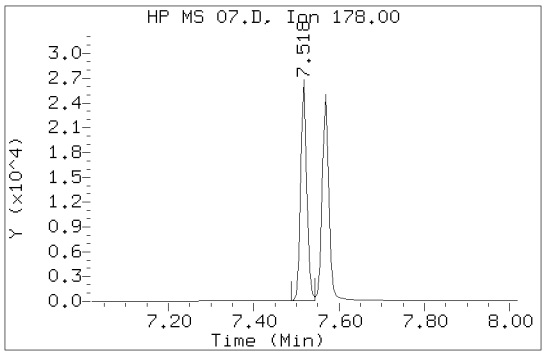
Phenanthrene (85-01-8)

Reason Code:

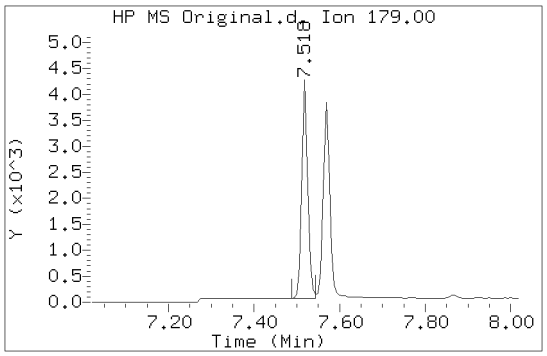
BEFORE
MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



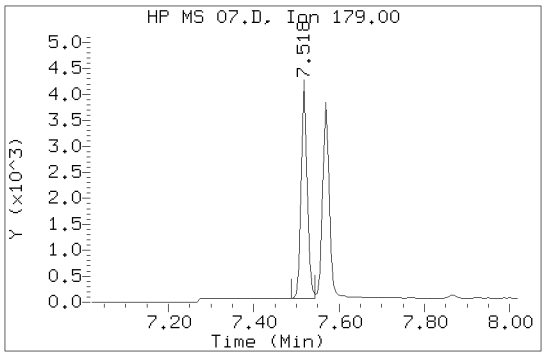
AFTER
MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



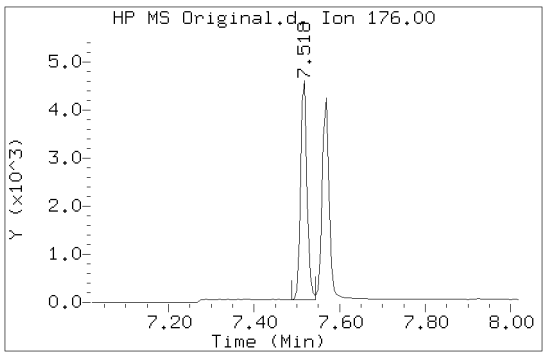
BEFORE
MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



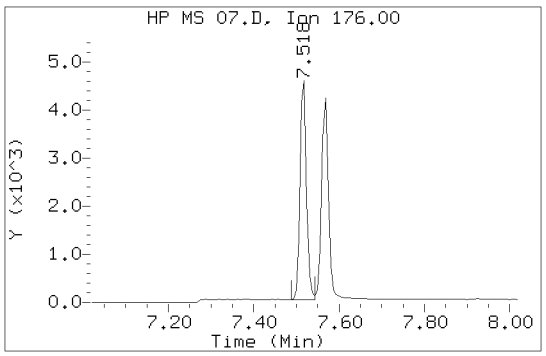
AFTER
MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham



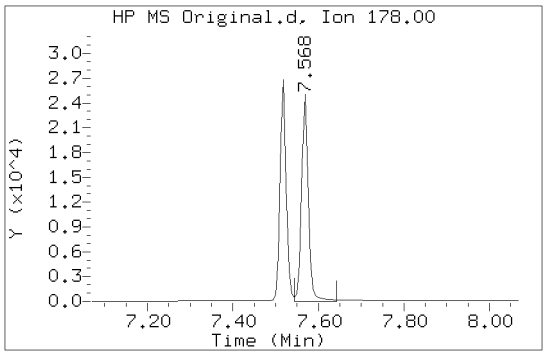
AFTER
MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham



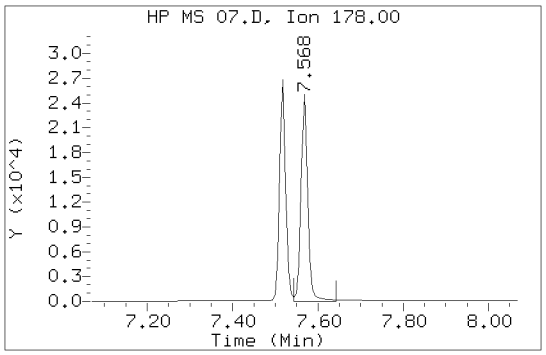
Anthracene (120-12-7)

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



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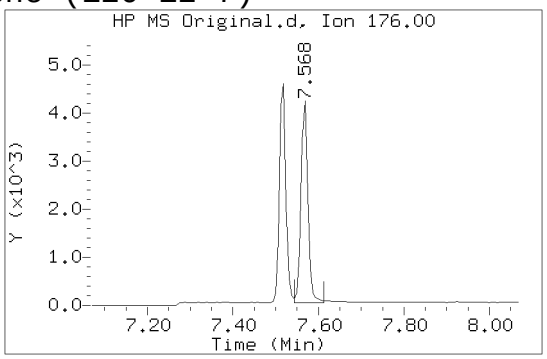
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Anthracene (120-12-7)

Reason Code:

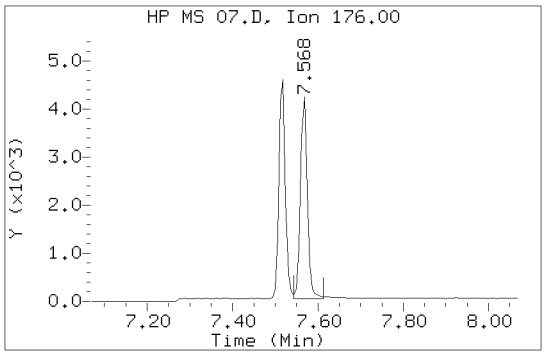
BEFORE

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



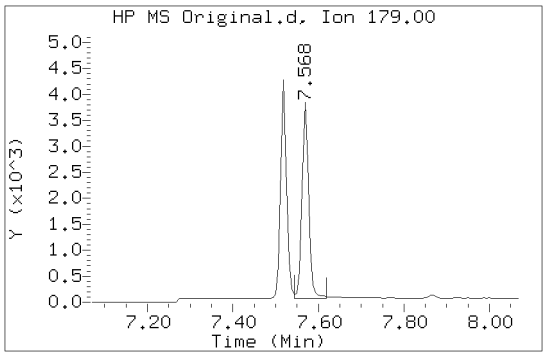
AFTER

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



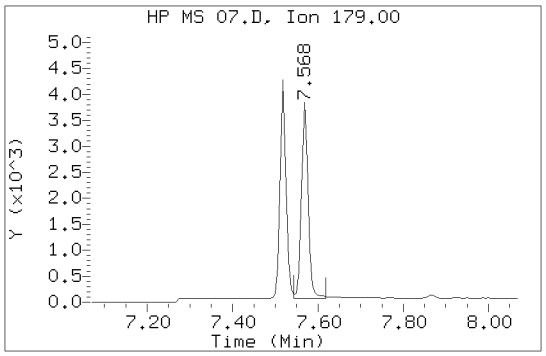
BEFORE

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham

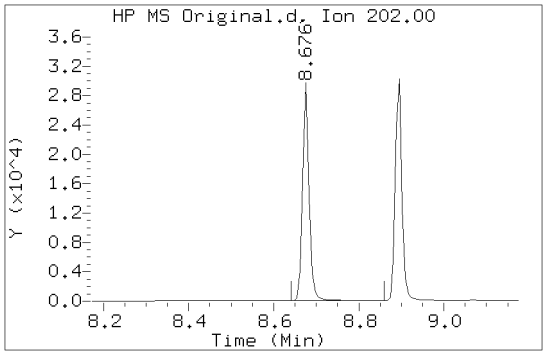


Fluoranthene (206-44-0)

Reason Code:

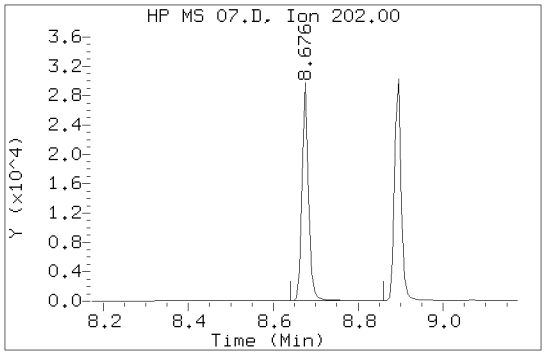
BEFORE

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



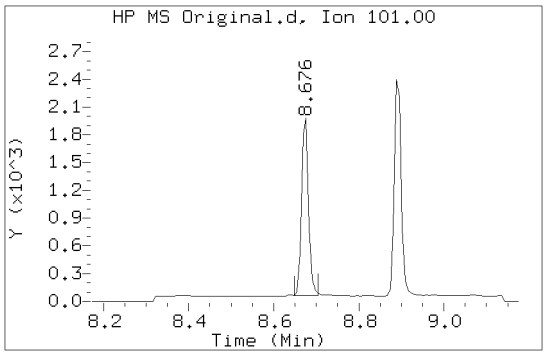
AFTER

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



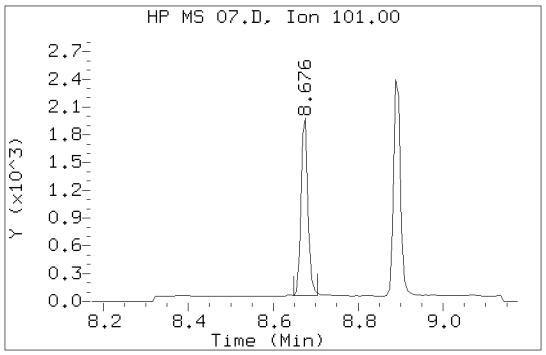
BEFORE

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



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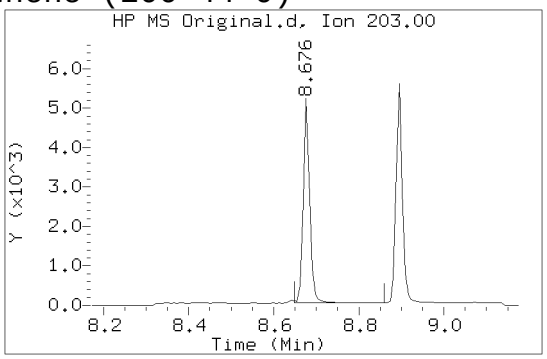
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Fluoranthene (206-44-0)

Reason Code:

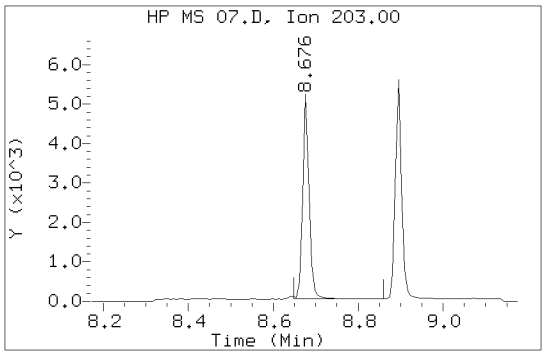
BEFORE

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

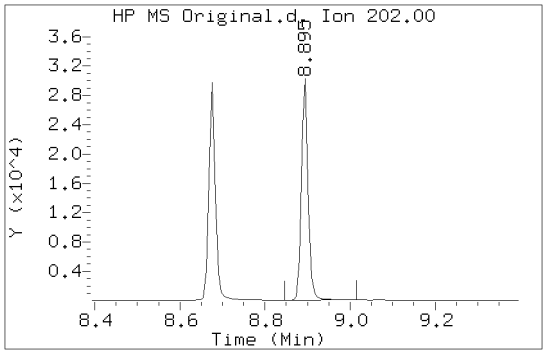


Pyrene (129-00-0)

Reason Code:

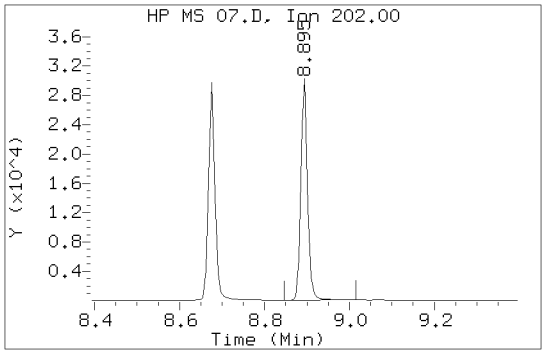
BEFORE

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



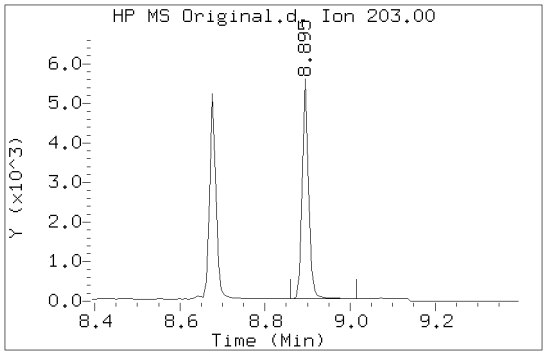
AFTER

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



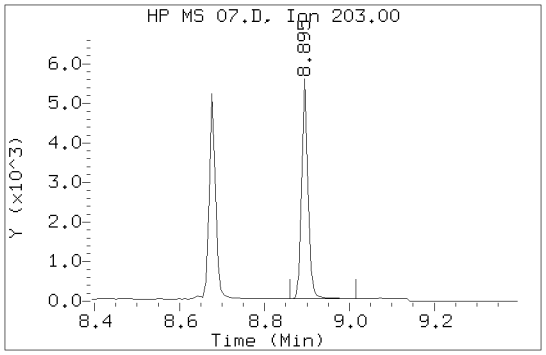
BEFORE

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



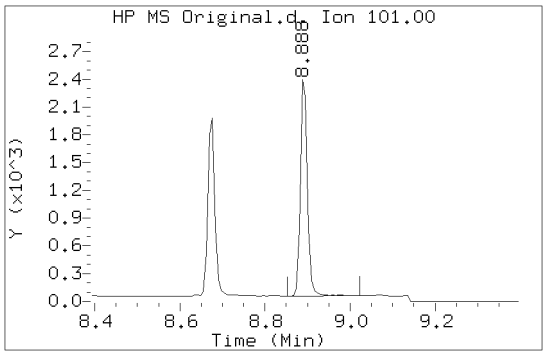
AFTER

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



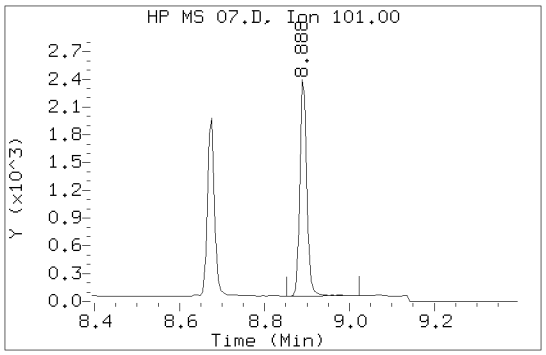
BEFORE

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



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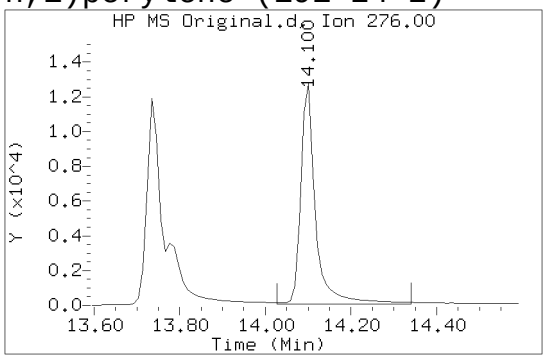
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

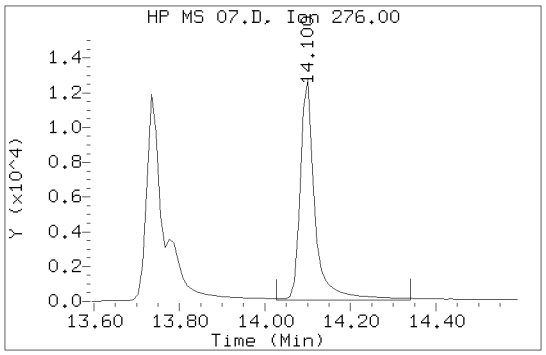
BEFORE

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



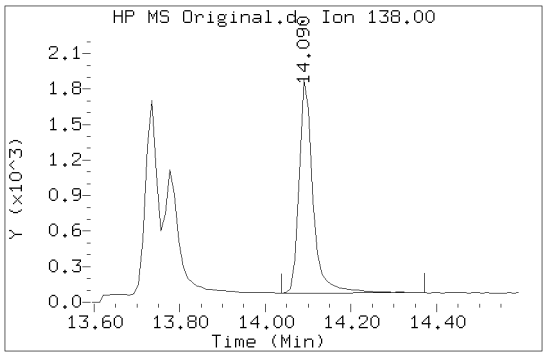
AFTER

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



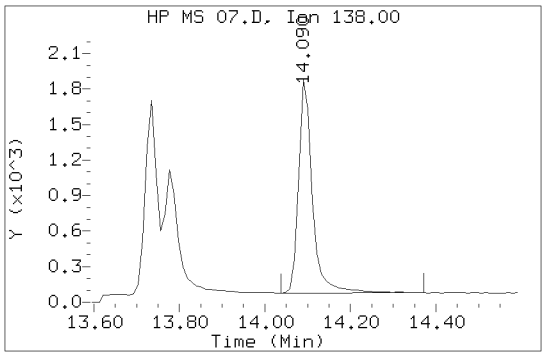
BEFORE

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



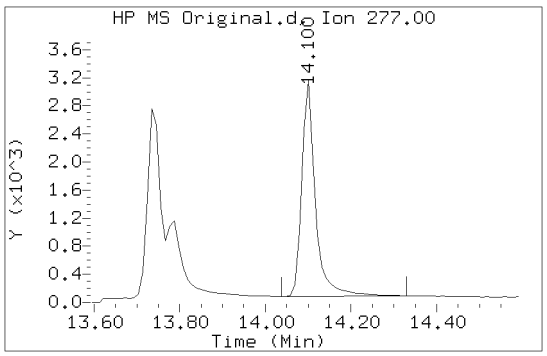
AFTER

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



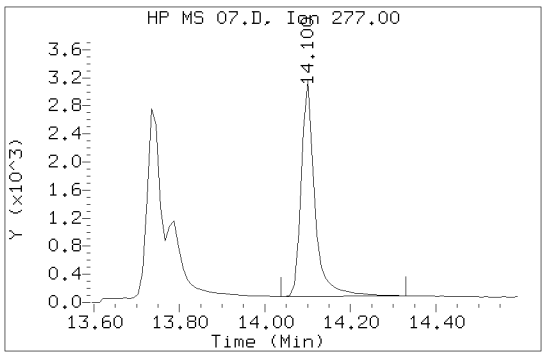
BEFORE

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

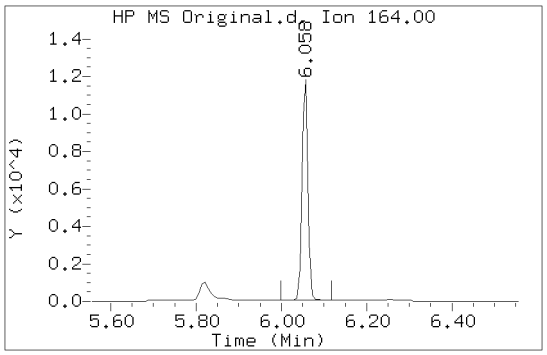


Acenaphthene-d10 (15067-26-2)

Reason Code:

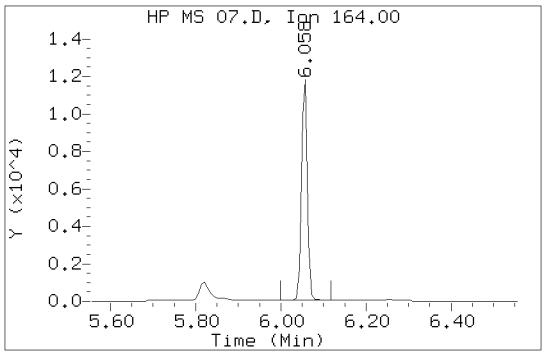
BEFORE

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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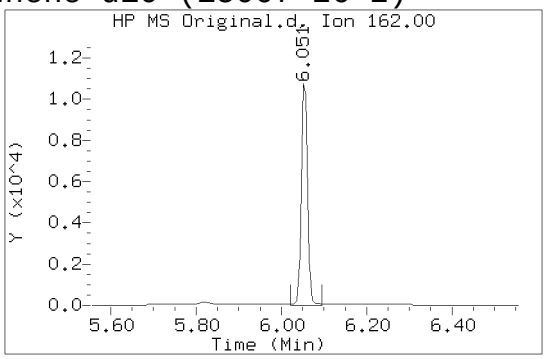
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene-d10 (15067-26-2)

Reason Code:

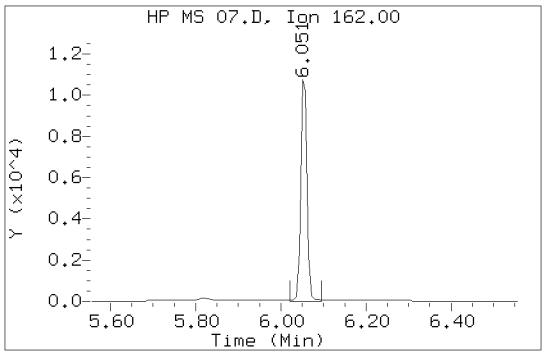
BEFORE

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



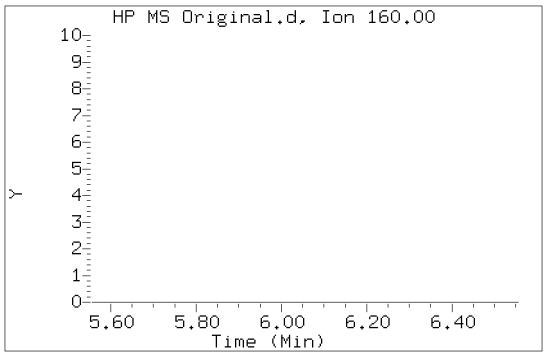
AFTER

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



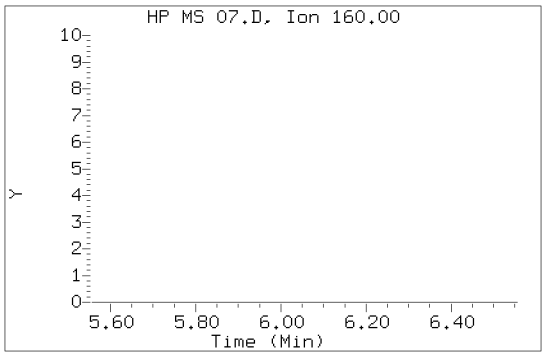
BEFORE

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

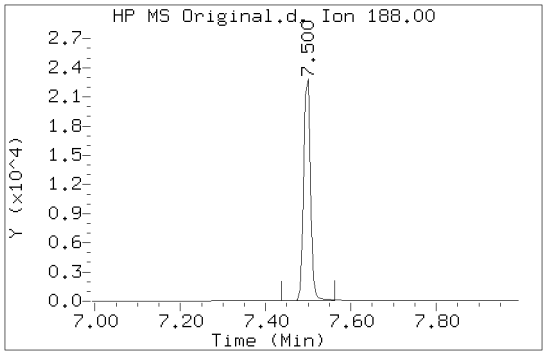


Phenanthrene-d10 (1517-22-2)

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
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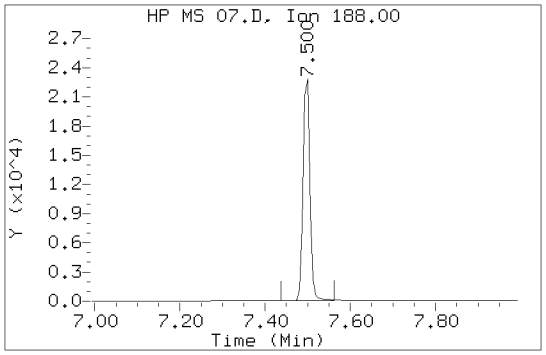

BEFORE

MASS
94
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1578
HEIGHT
1551
18-Dec-2023
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linh
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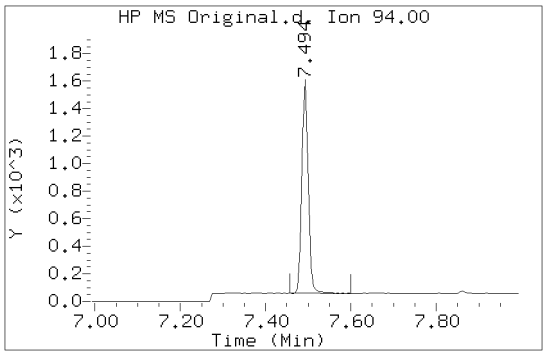

AFTER

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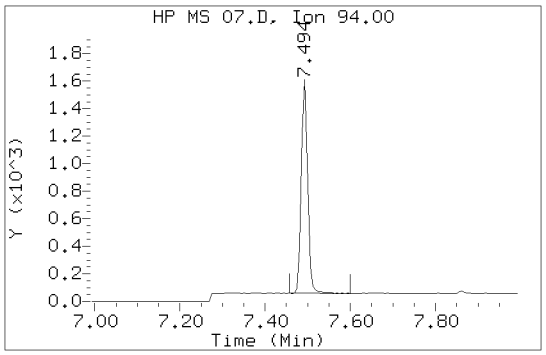

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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE

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18-Dec-2023
10:16
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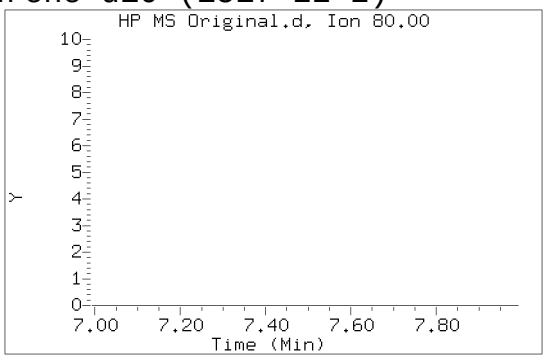

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18-Dec-2023
10:16
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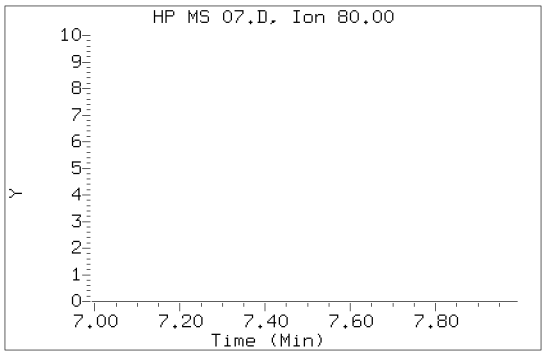

Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE

MASS
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AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
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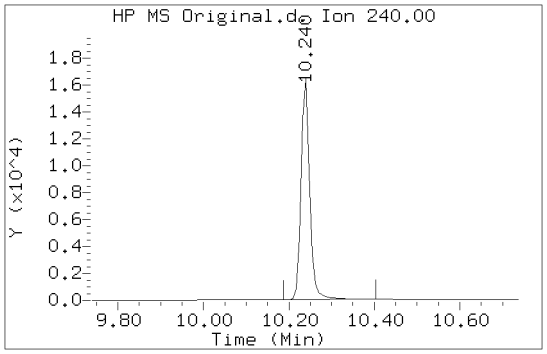

AFTER

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16421
18-Dec-2023
10:16
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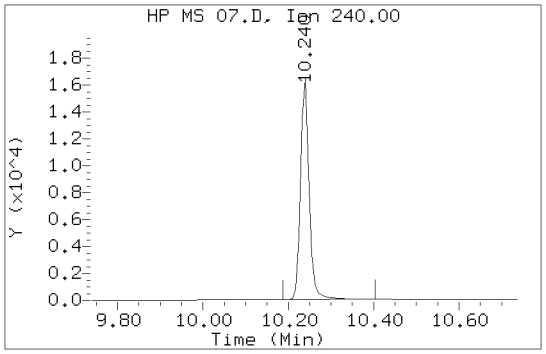

BEFORE

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18-Dec-2023
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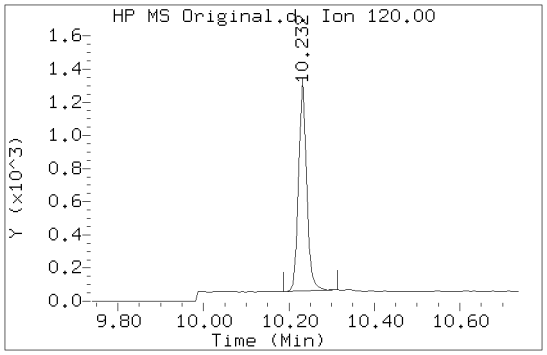

AFTER

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HEIGHT
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18-Dec-2023
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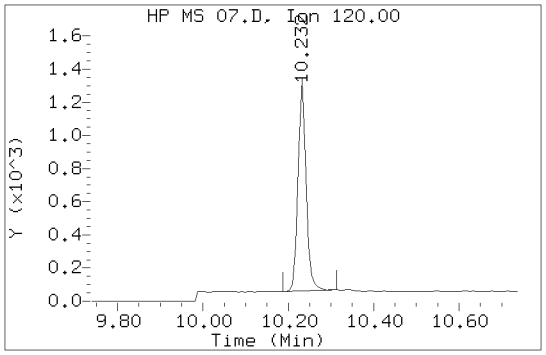

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18-Dec-2023
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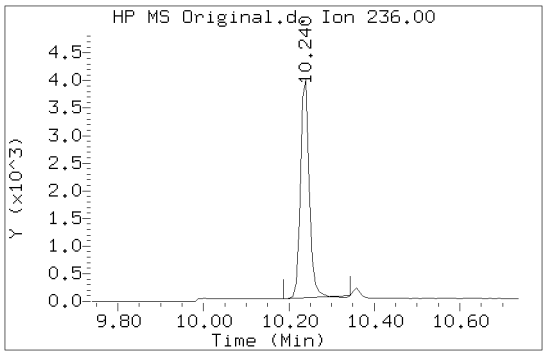

AFTER

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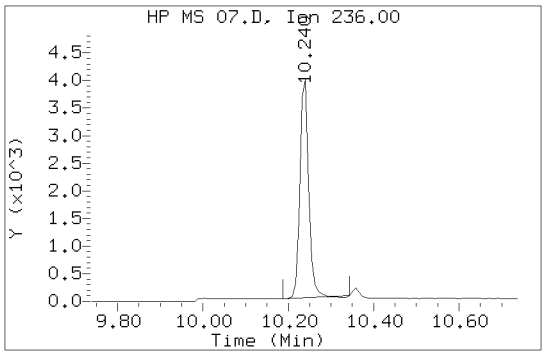

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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
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AREA
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13558
18-Dec-2023
10:16
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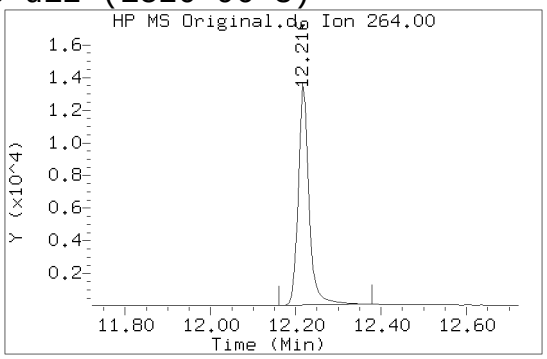

AFTER
MASS
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23969
HEIGHT
13558
18-Dec-2023
10:16
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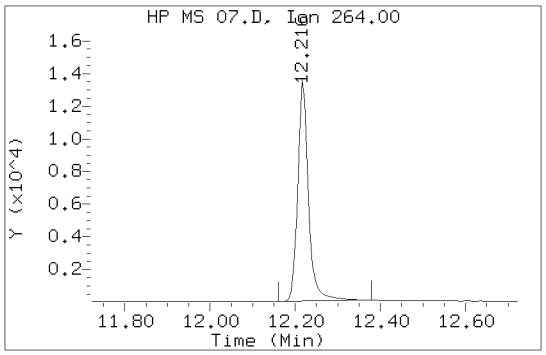

BEFORE
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3065
18-Dec-2023
10:16
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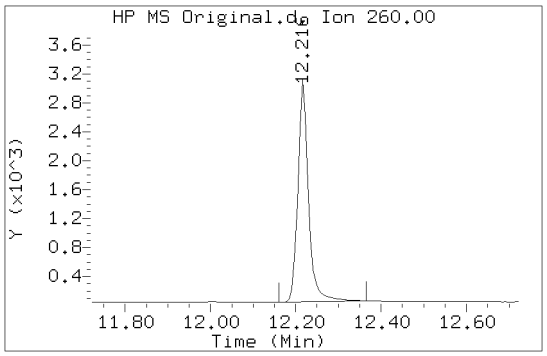
pham



AFTER
MASS
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HEIGHT
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18-Dec-2023
10:16
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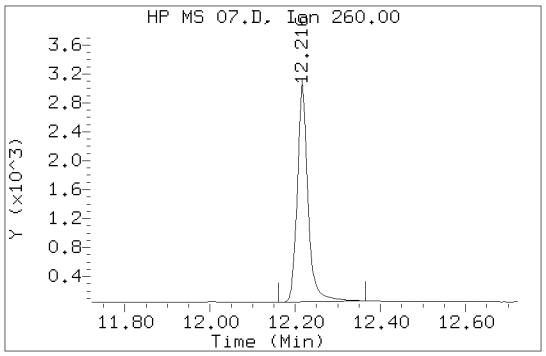

BEFORE
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HEIGHT
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18-Dec-2023
10:16
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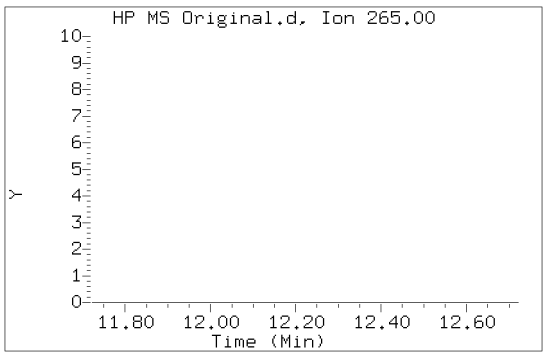

AFTER
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18-Dec-2023
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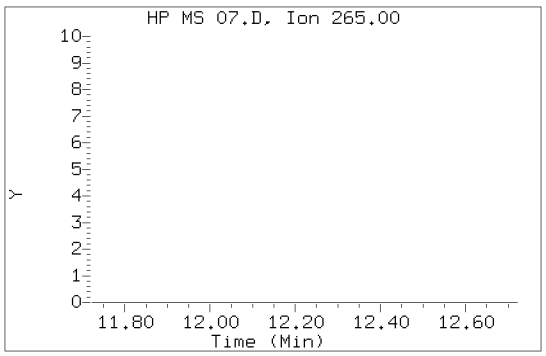

Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
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HEIGHT
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18-Dec-2023
10:16
linh
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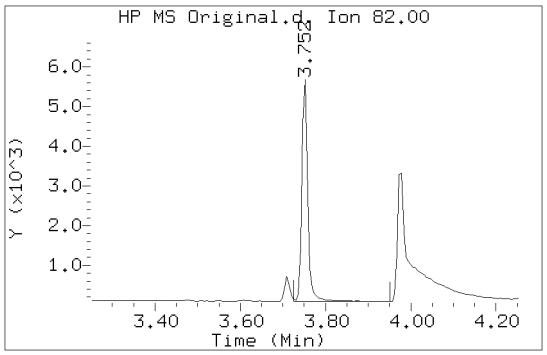

AFTER
MASS
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10:16
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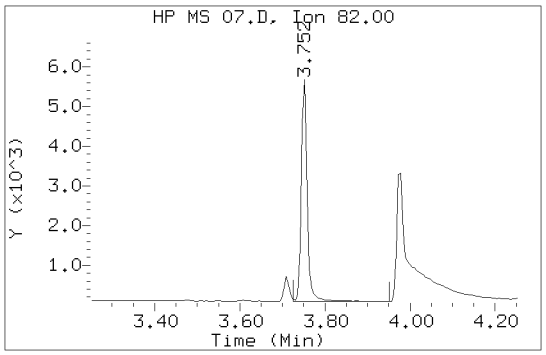

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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE

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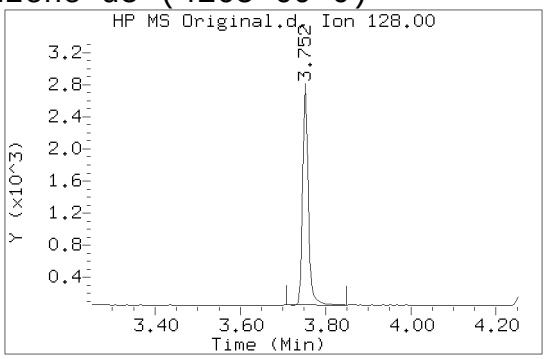
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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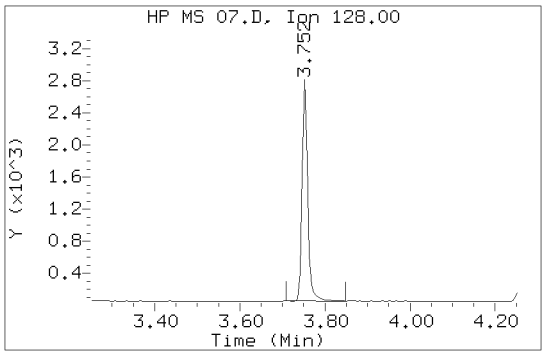
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



BEFORE

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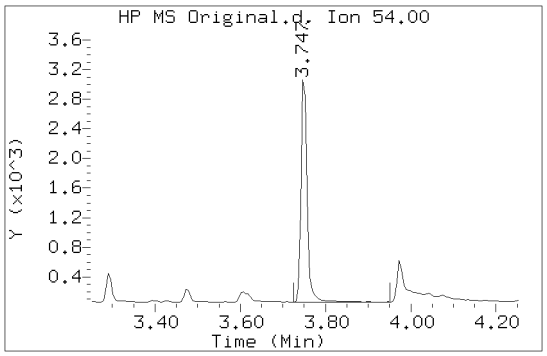

AFTER

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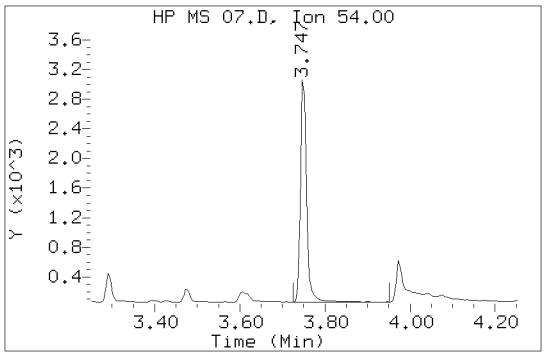

4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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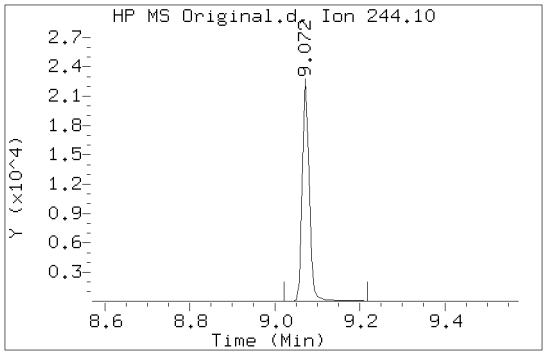
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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18-Dec-2023
10:16
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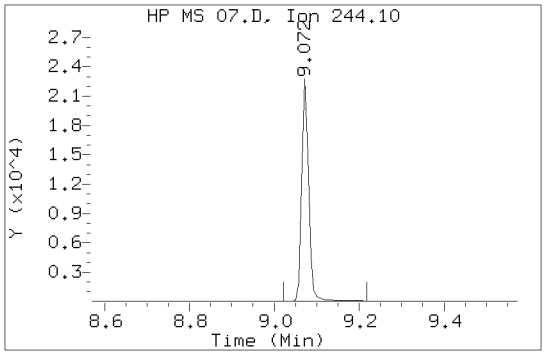

BEFORE

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HEIGHT
59
18-Dec-2023
10:16
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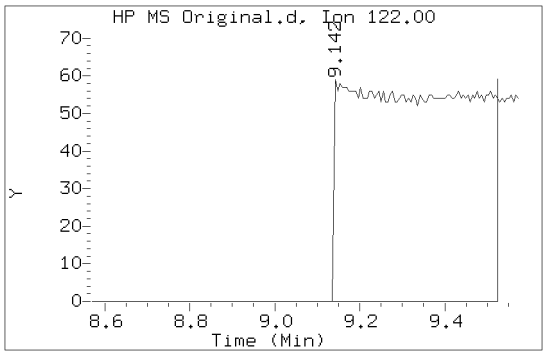

AFTER

MASS
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18-Dec-2023
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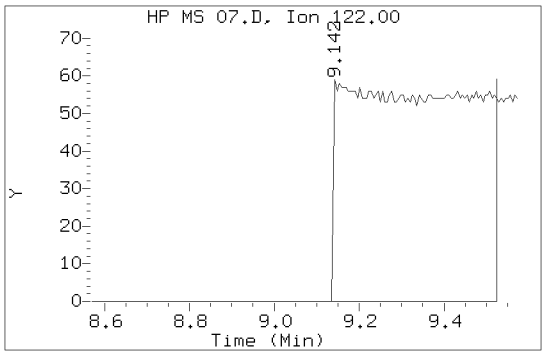

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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

4-Terphenyl-d14 (1718-51-0)

BEFORE

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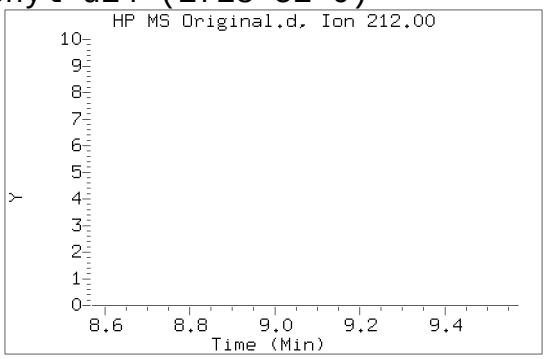
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER

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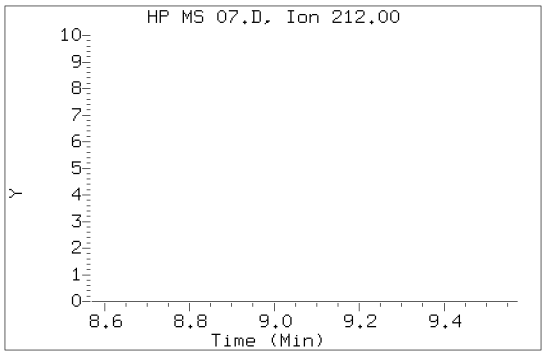


ALS Laboratory Group

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)	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

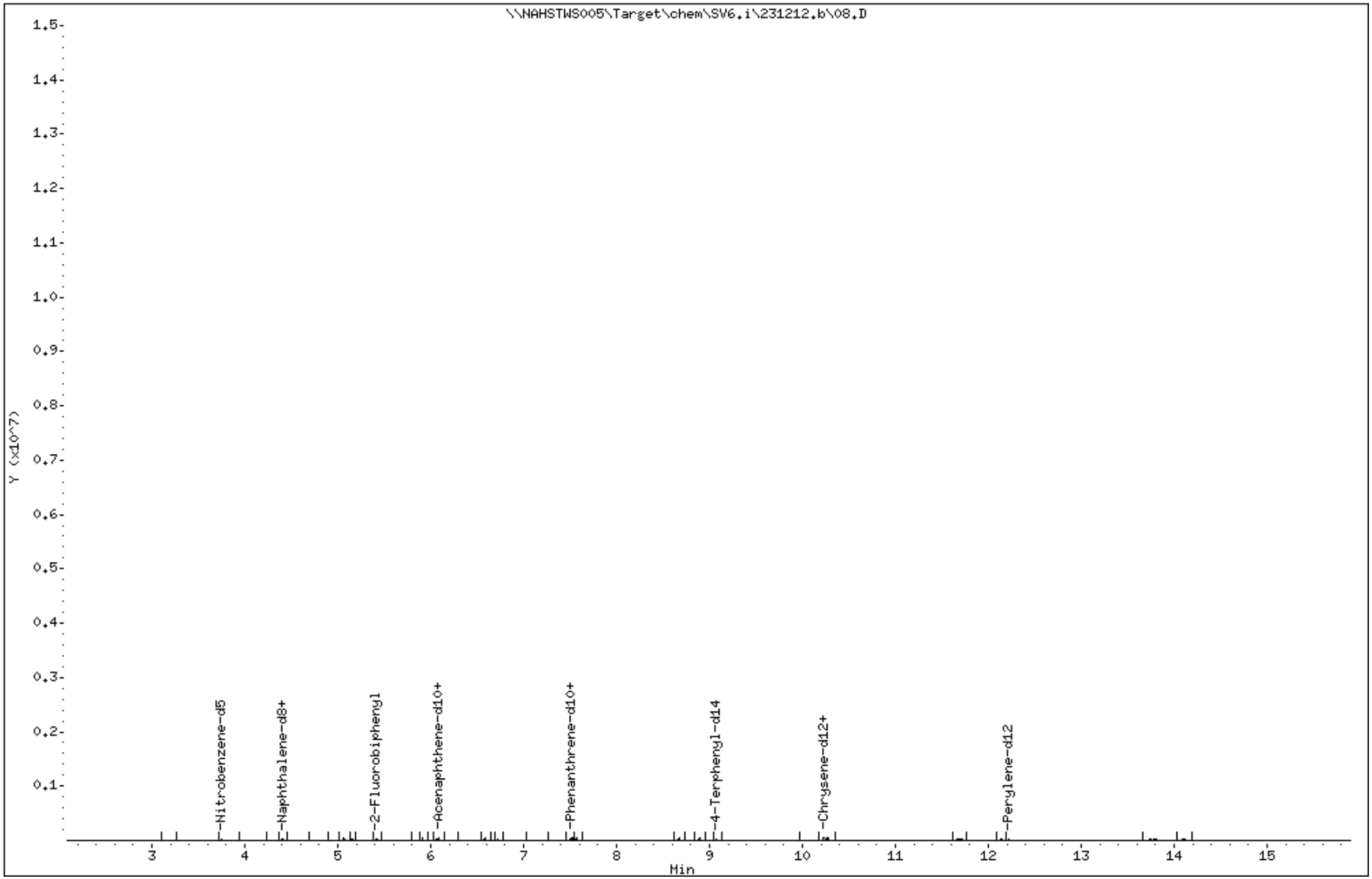
Sample Info: PAHSIM-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



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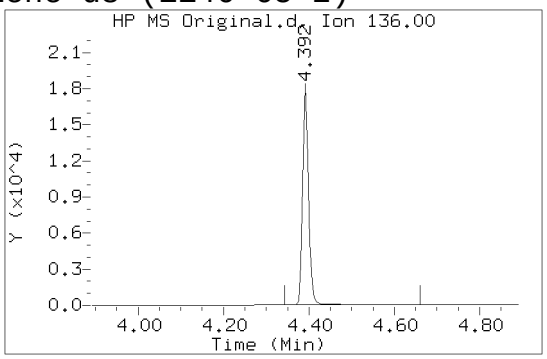
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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18-Dec-2023
10:16
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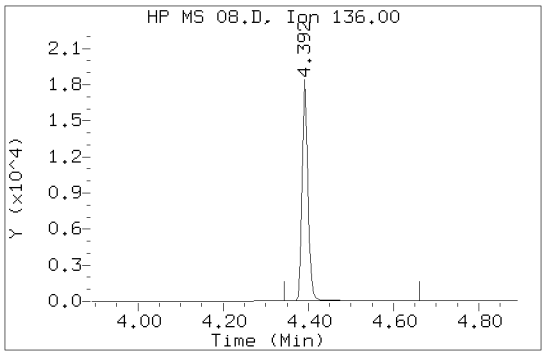

BEFORE

MASS
68
AREA
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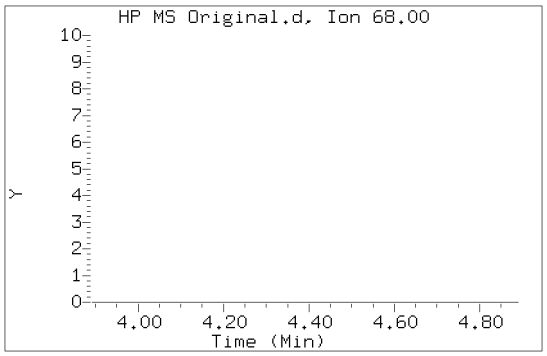
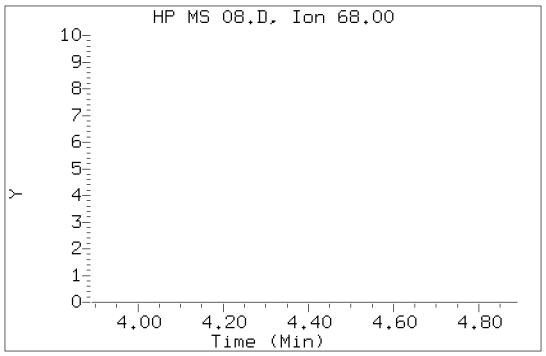
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

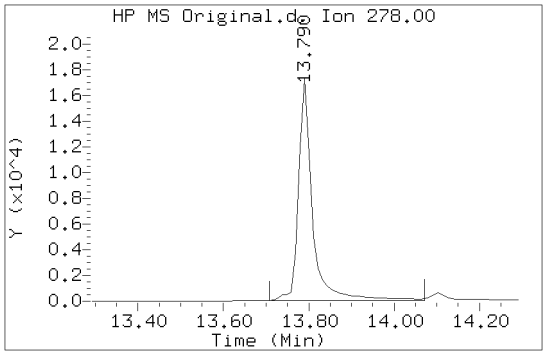


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

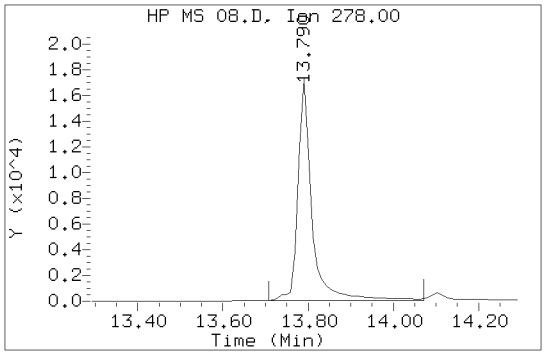
BEFORE

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



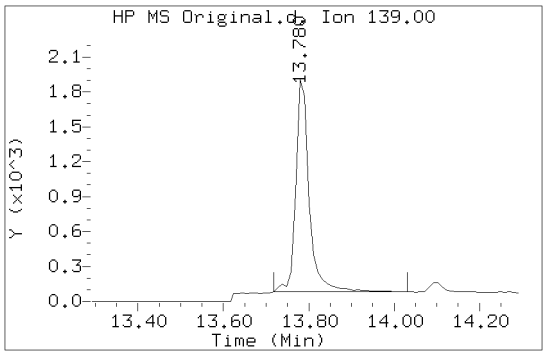
AFTER

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



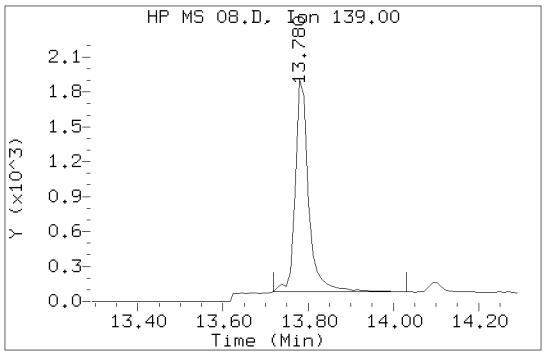
BEFORE

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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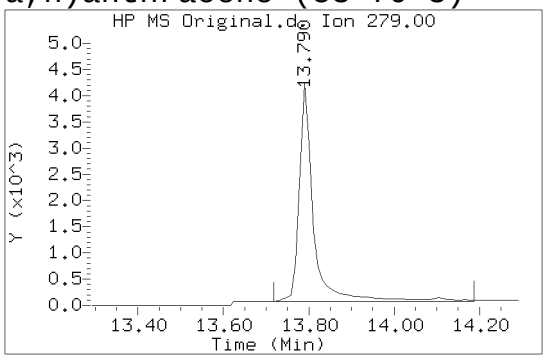
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

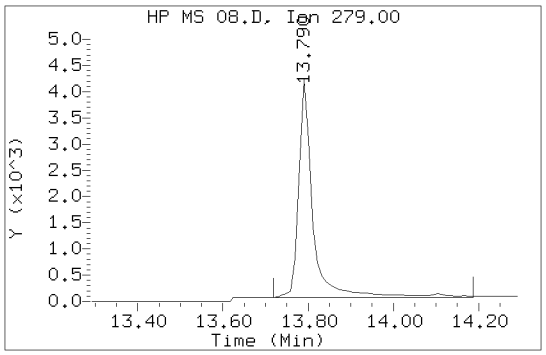
BEFORE

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

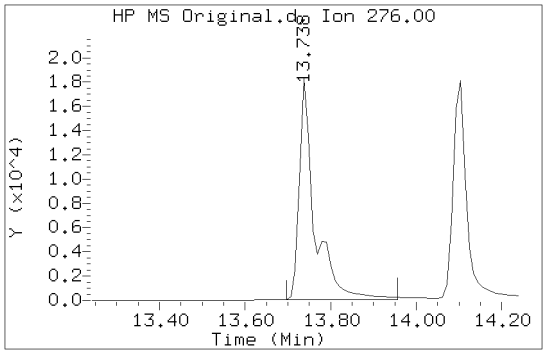


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

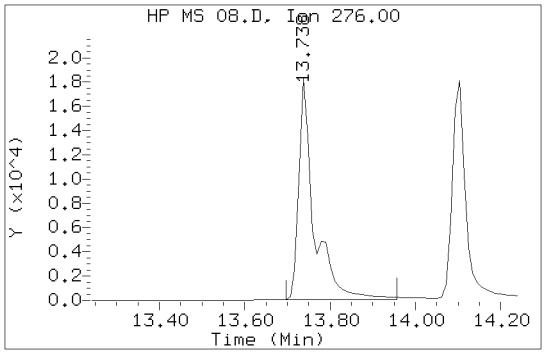
BEFORE

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



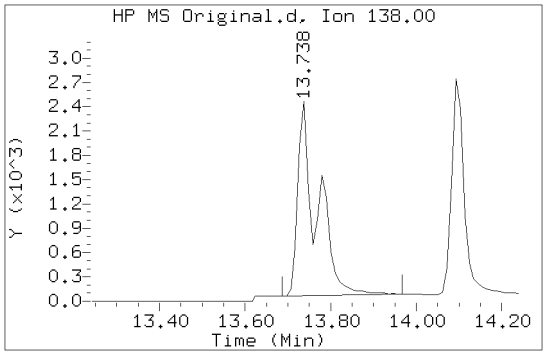
AFTER

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



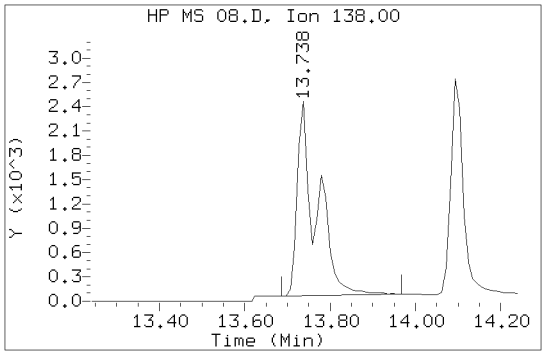
BEFORE

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



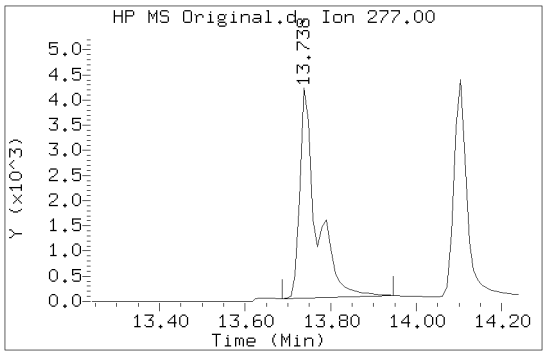
AFTER

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



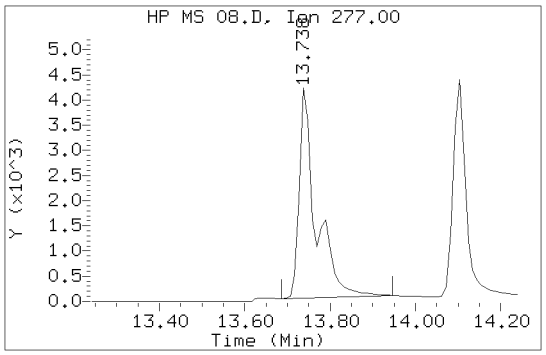
BEFORE

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



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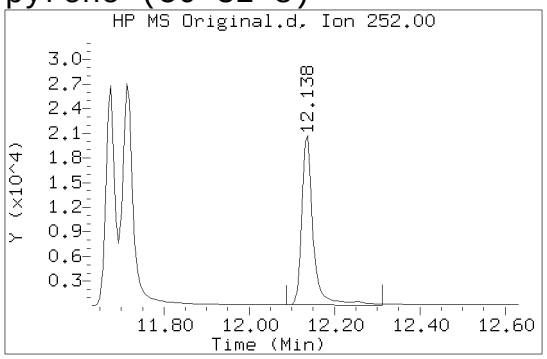
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(a)pyrene (50-32-8)

Reason Code:

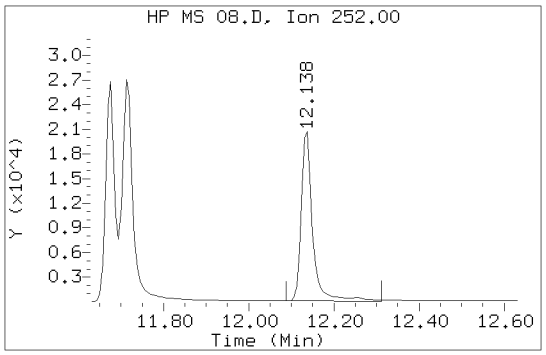
BEFORE

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



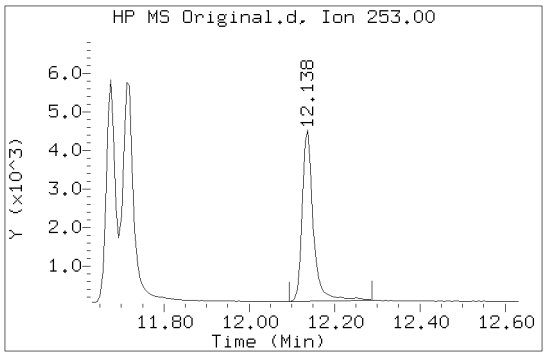
AFTER

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



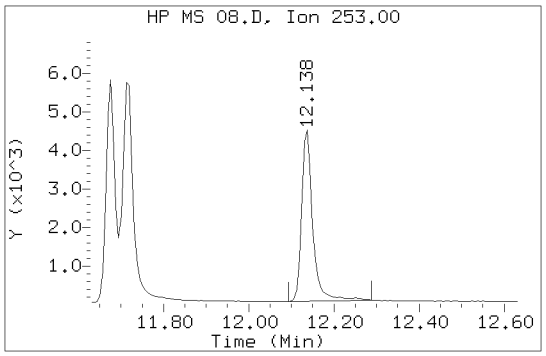
BEFORE

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



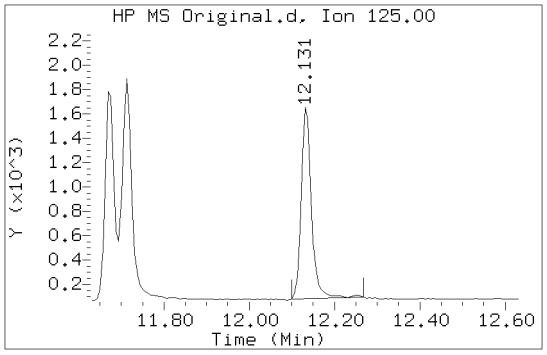
AFTER

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



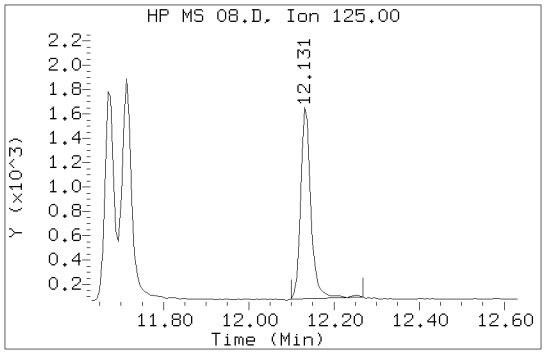
BEFORE

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham

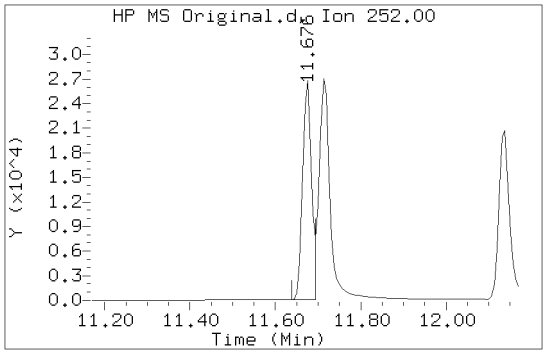


Benzo(b)fluoranthene (205-99-2)

Reason Code:

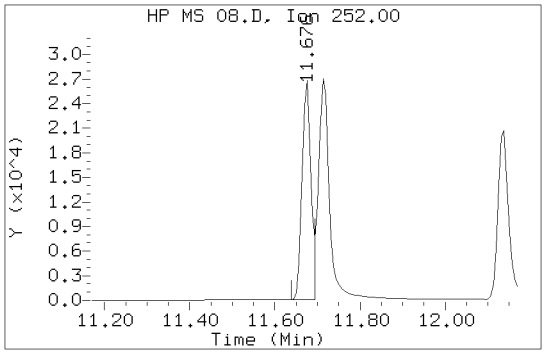
BEFORE

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



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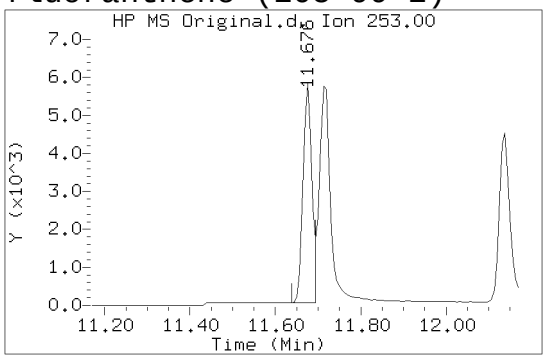
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(b)fluoranthene (205-99-2)

Reason Code:

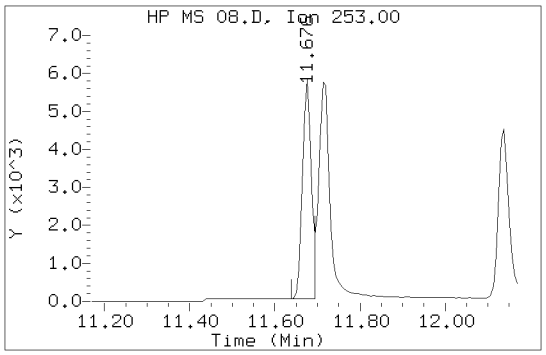
BEFORE

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



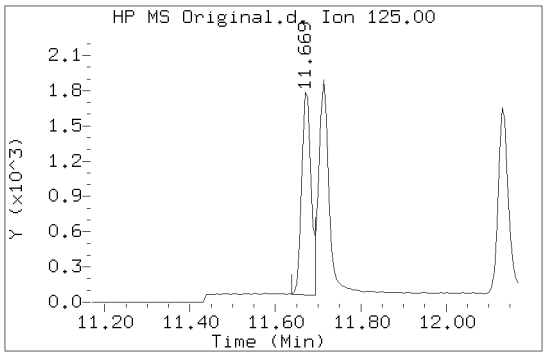
AFTER

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



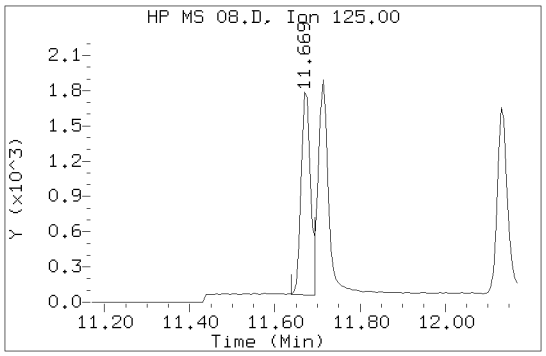
BEFORE

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

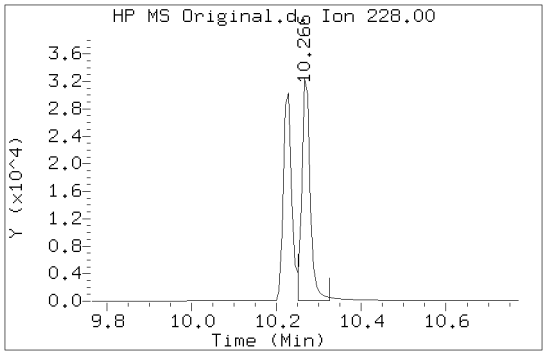


Chrysene (218-01-9)

Reason Code:

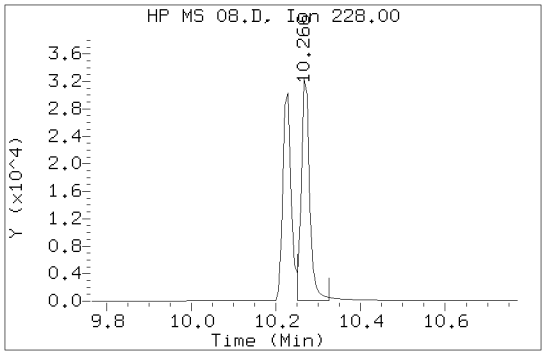
BEFORE

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



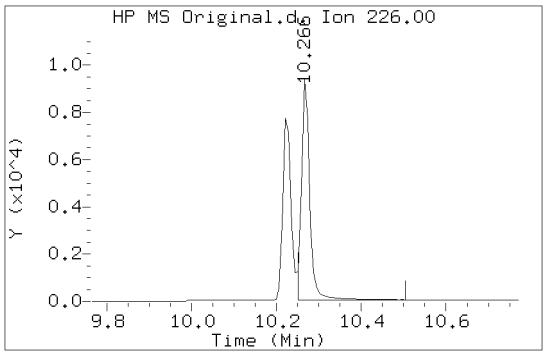
AFTER

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



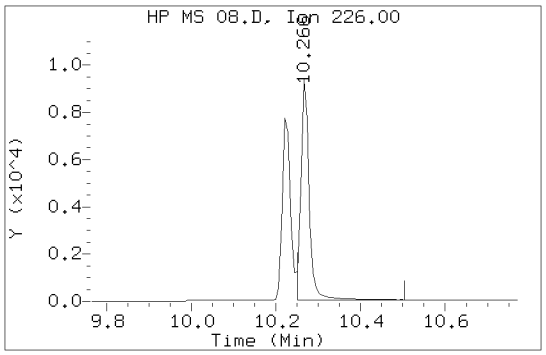
BEFORE

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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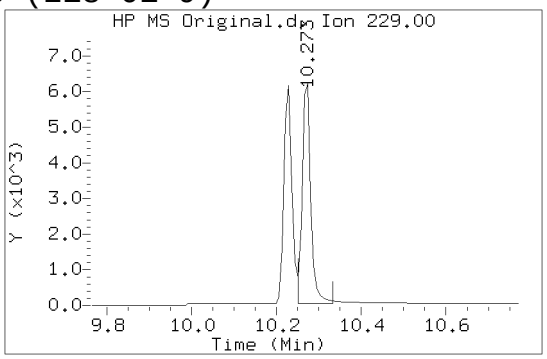
LabSampID : PAHSIM-0.15

Chrysene (218-01-9)

Reason Code:

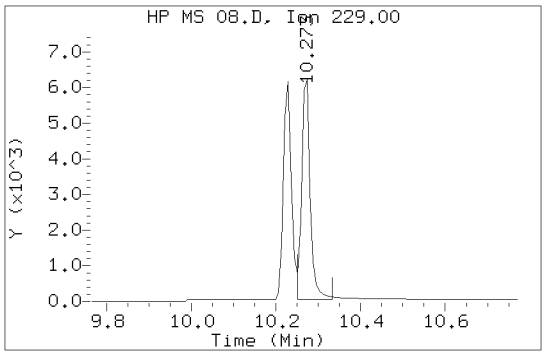
BEFORE

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

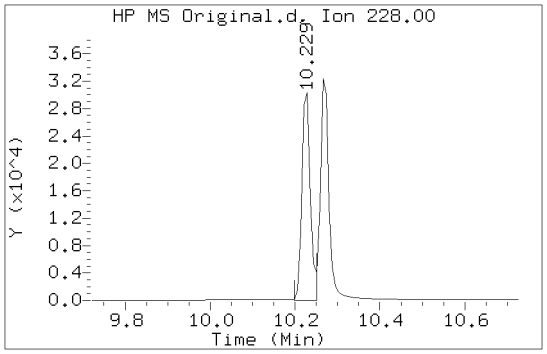


Benzo(a)Anthracene (56-55-3)

Reason Code:

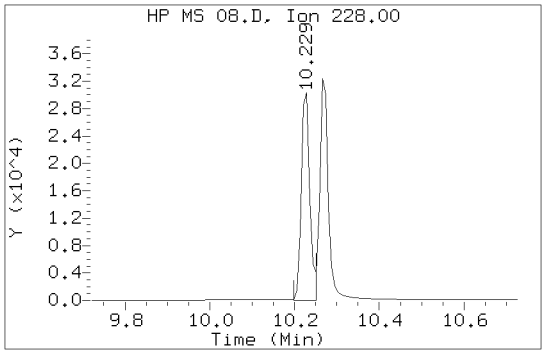
BEFORE

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



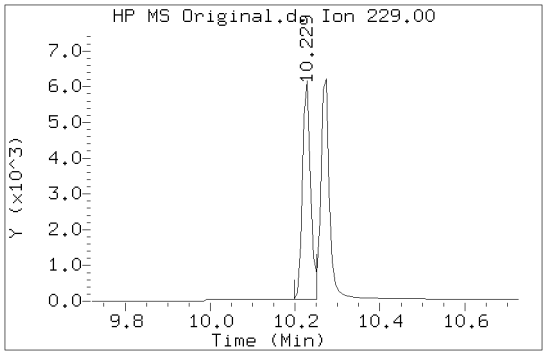
AFTER

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



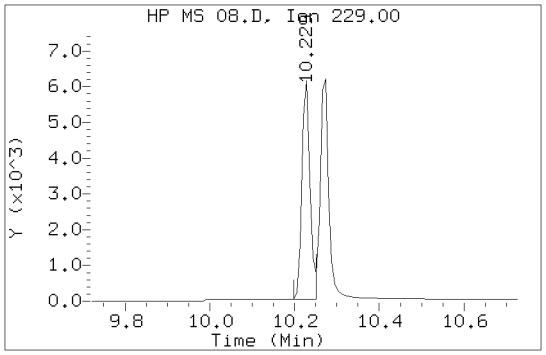
BEFORE

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



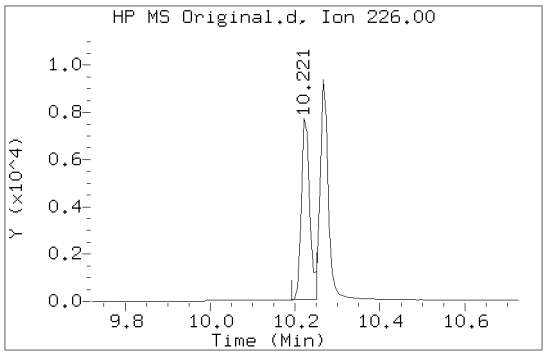
AFTER

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



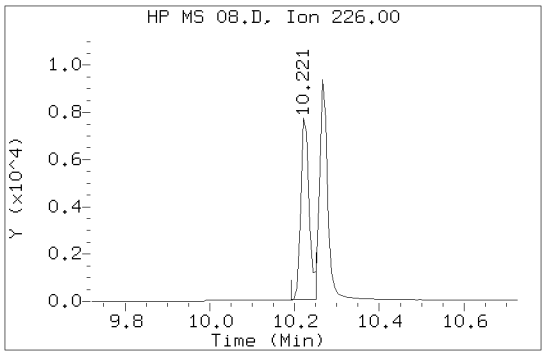
BEFORE

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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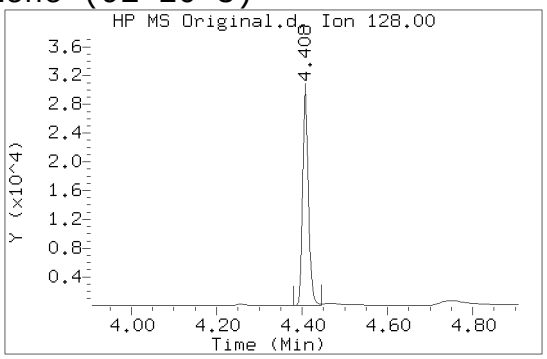
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene (91-20-3)

Reason Code:

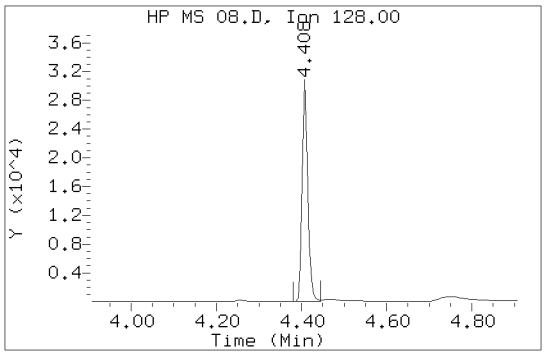
BEFORE

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



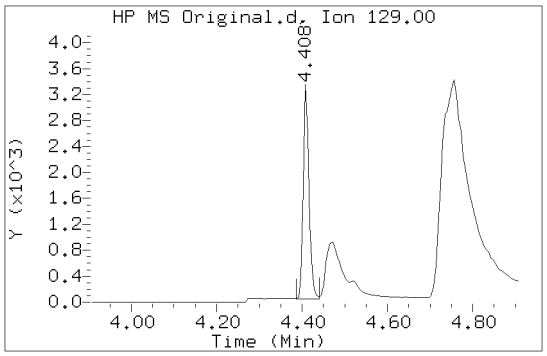
AFTER

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



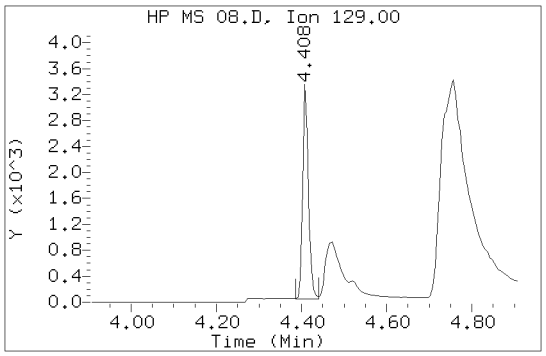
BEFORE

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

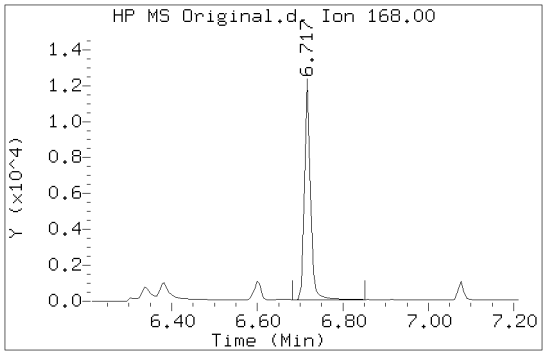


Dibenzofuran (132-64-9)

Reason Code:

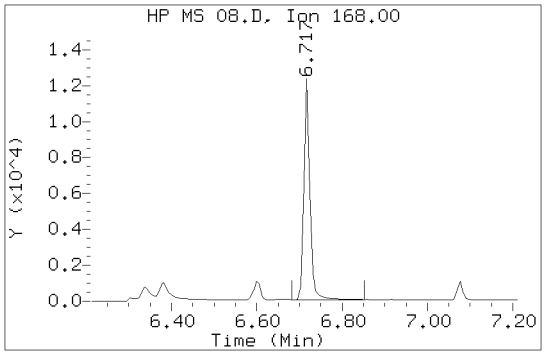
BEFORE

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



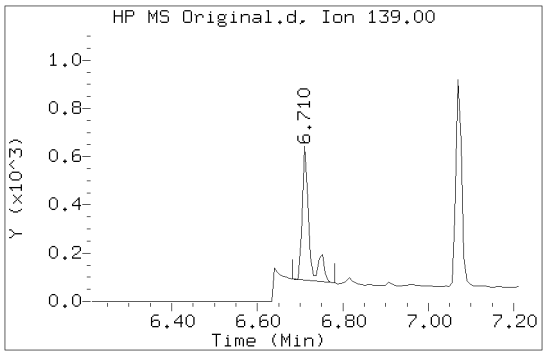
AFTER

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



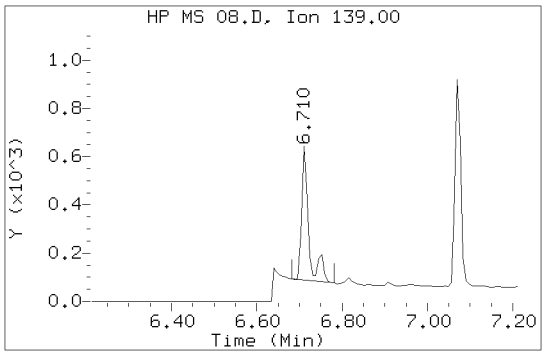
BEFORE

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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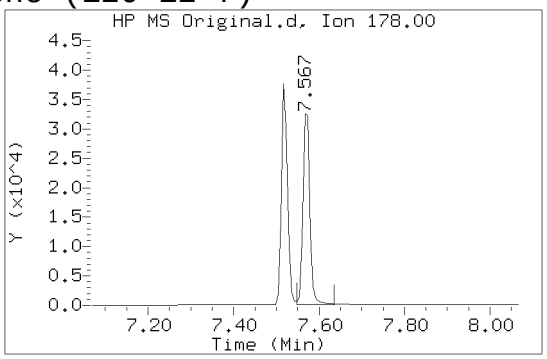
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Anthracene (120-12-7)

Reason Code:

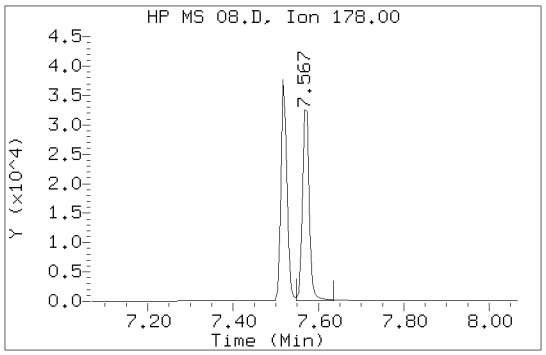
BEFORE

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



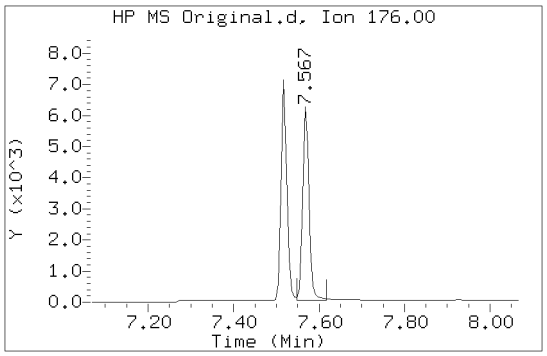
AFTER

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



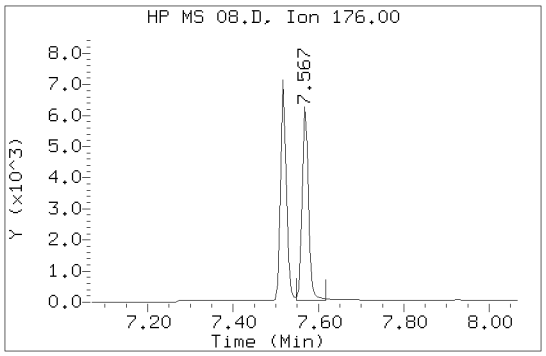
BEFORE

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



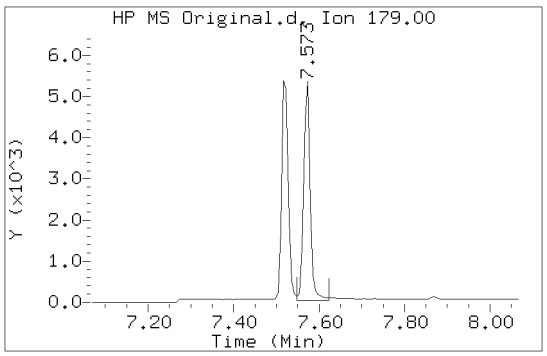
AFTER

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



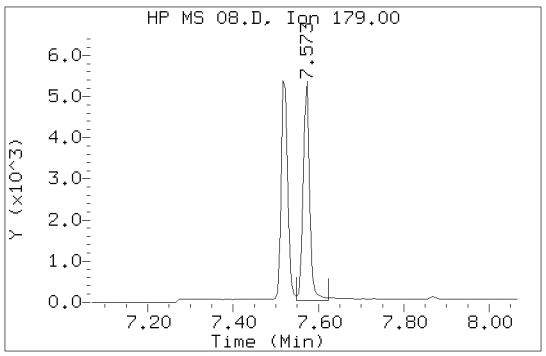
BEFORE

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

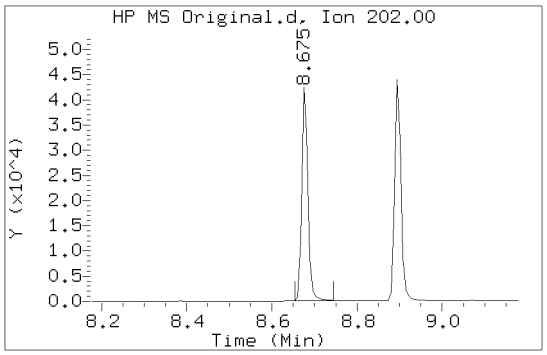


Fluoranthene (206-44-0)

Reason Code:

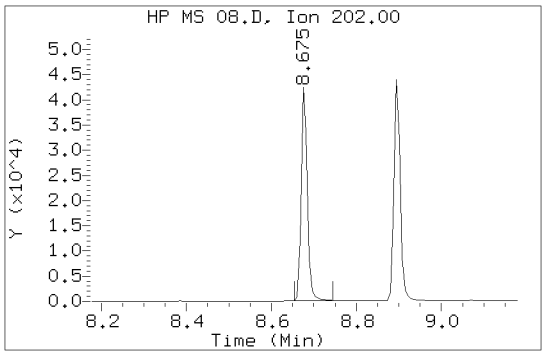
BEFORE

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



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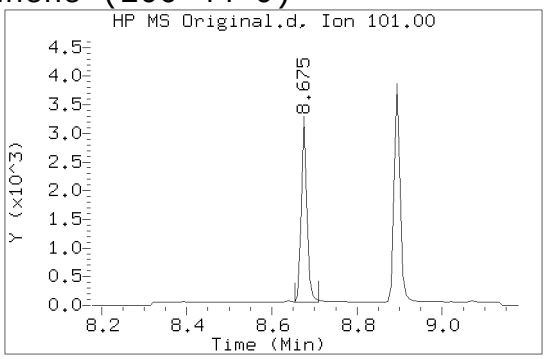
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Fluoranthene (206-44-0)

Reason Code:

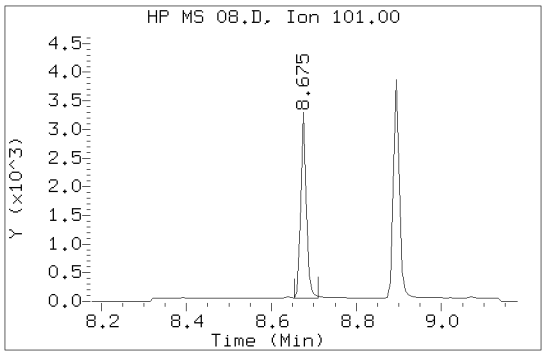
BEFORE

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



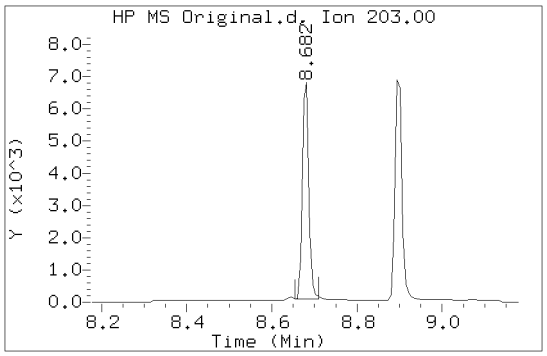
AFTER

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



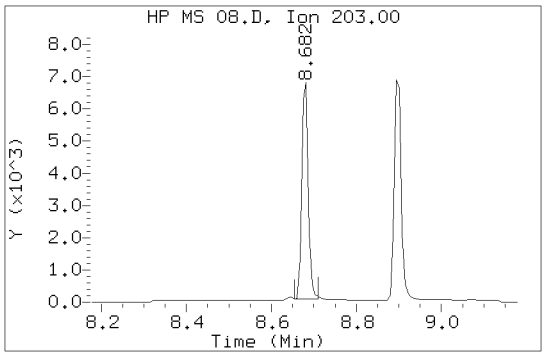
BEFORE

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham

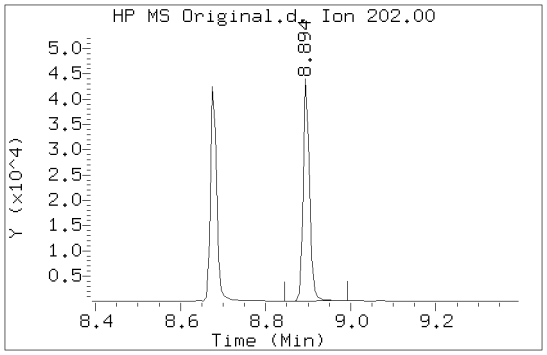


Pyrene (129-00-0)

Reason Code:

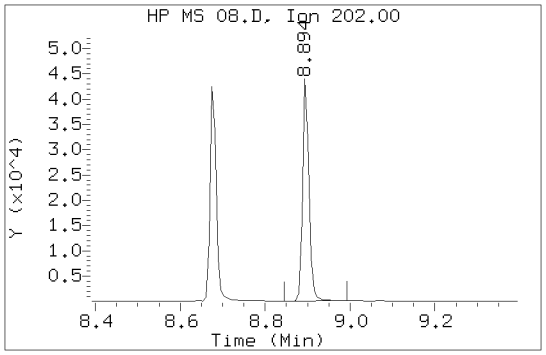
BEFORE

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



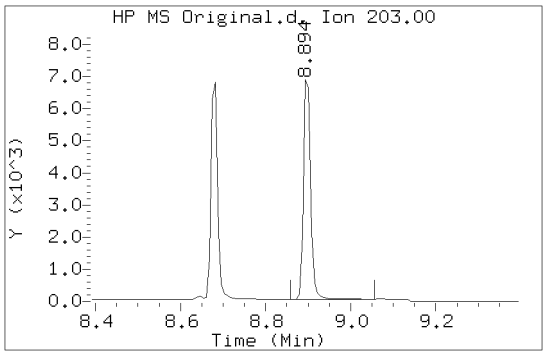
AFTER

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



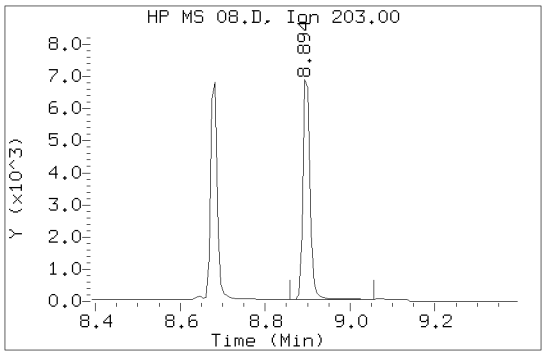
BEFORE

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



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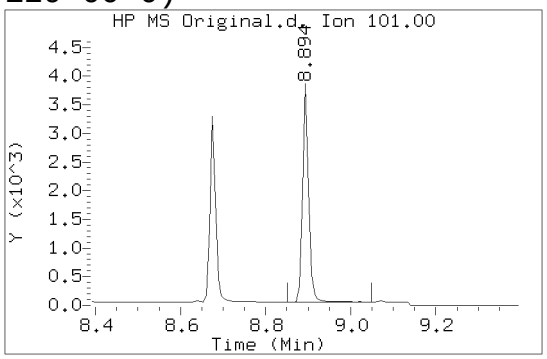
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Pyrene (129-00-0)

Reason Code:

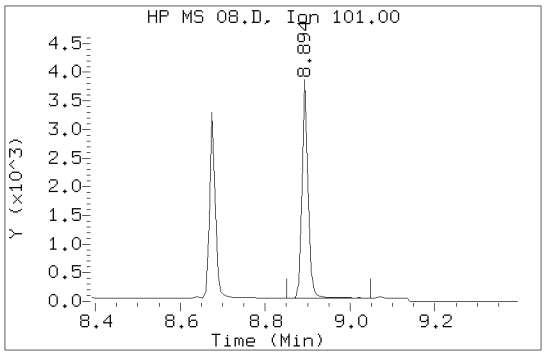
BEFORE

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham

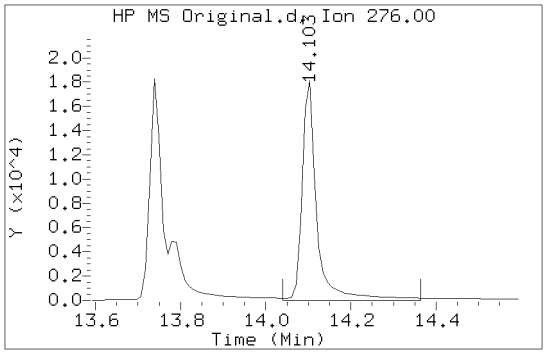


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

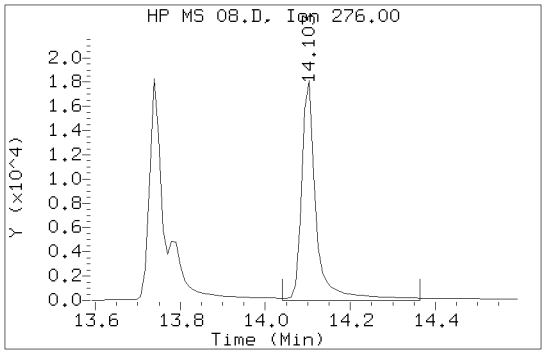
BEFORE

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



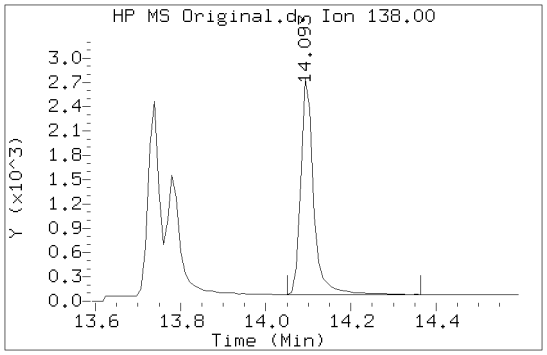
AFTER

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



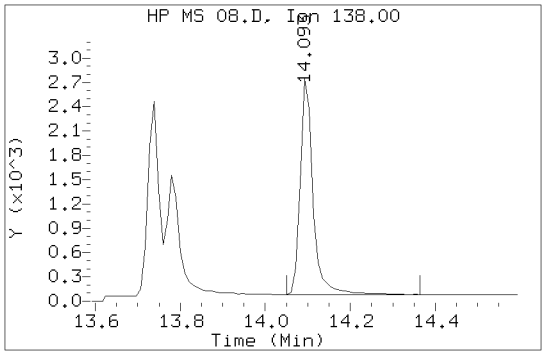
BEFORE

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



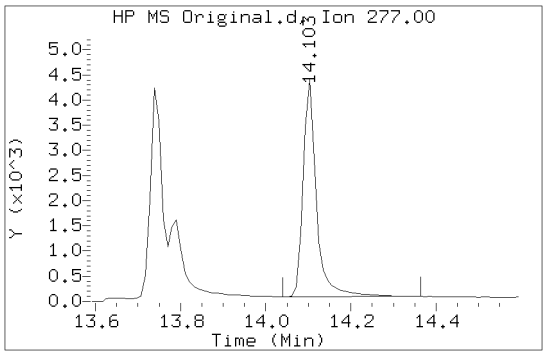
AFTER

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



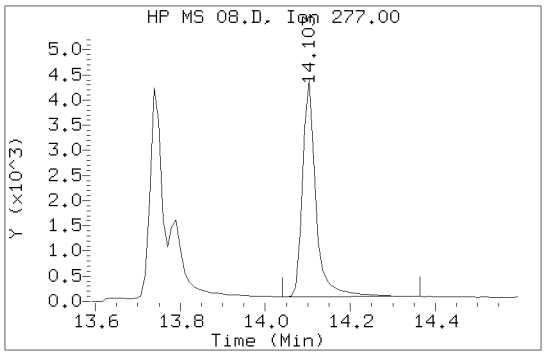
BEFORE

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



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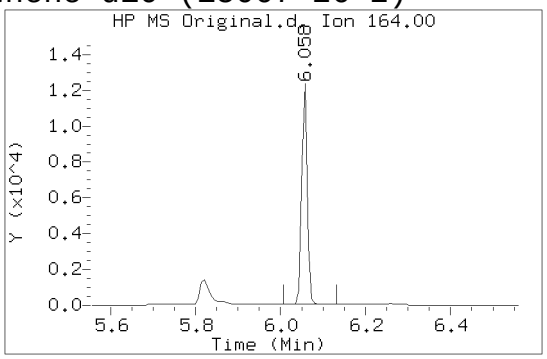
LabSampID : PAHSIM-0.15

Acenaphthene-d10 (15067-26-2)

Reason Code:

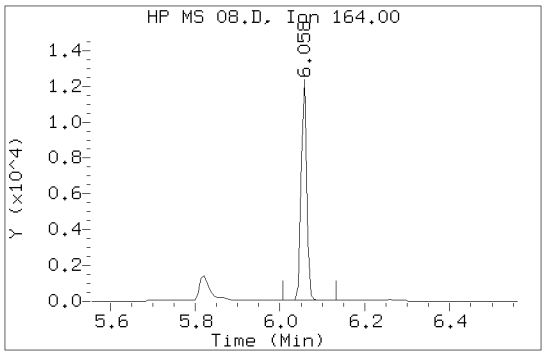
BEFORE

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



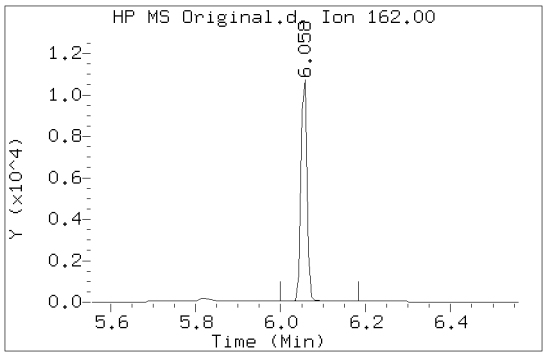
AFTER

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



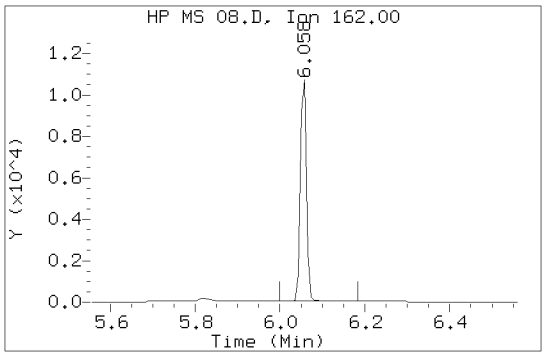
BEFORE

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



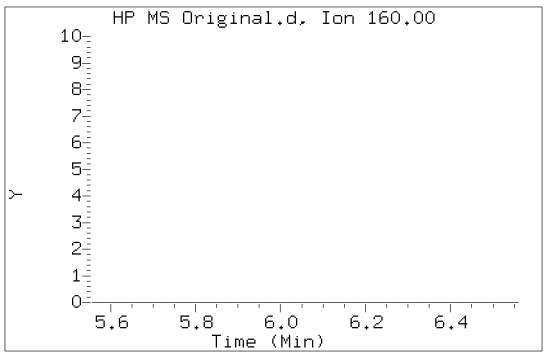
AFTER

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



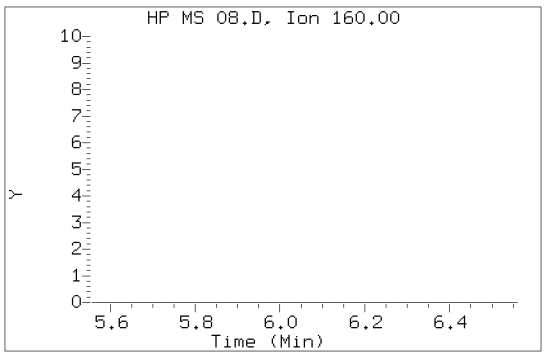
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

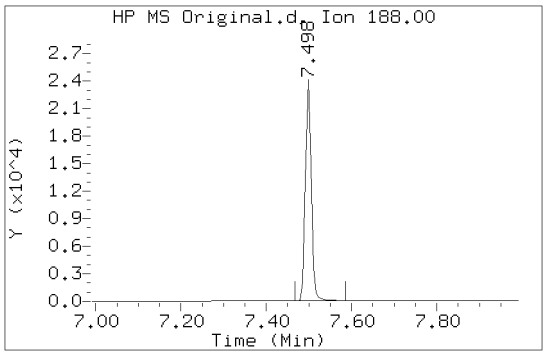


Phenanthrene-d10 (1517-22-2)

Reason Code:

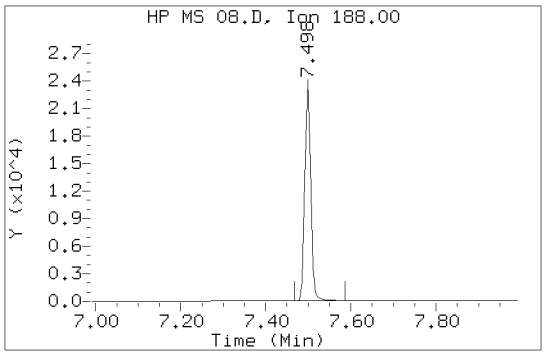
BEFORE

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



AFTER

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



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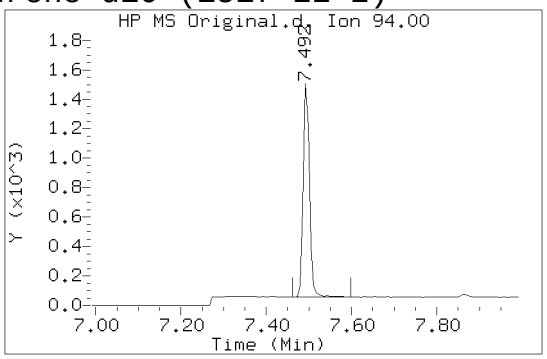
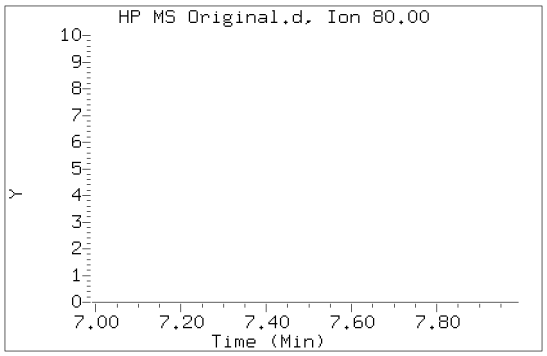
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham

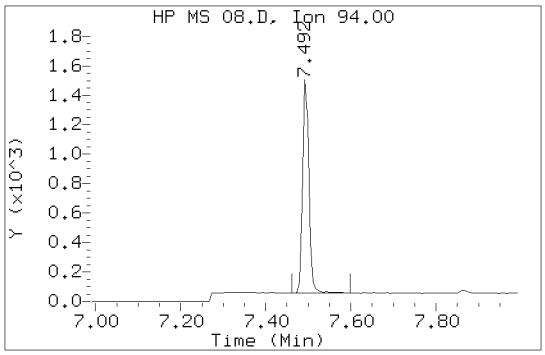


BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

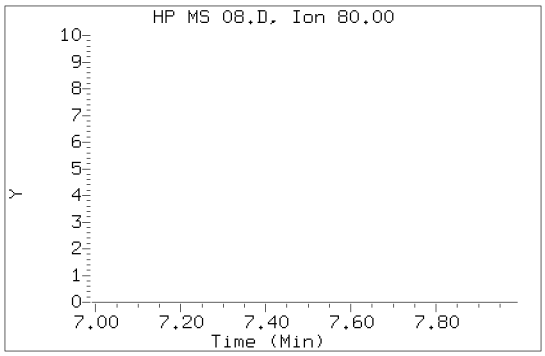


Reason Code:

AFTER
MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham

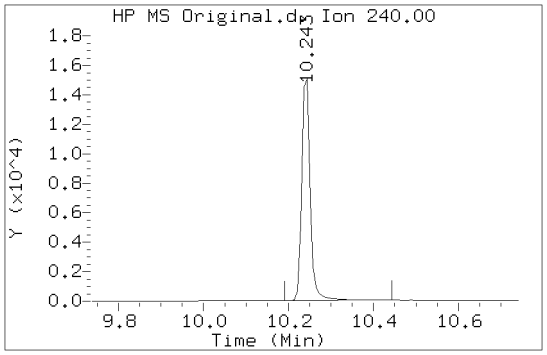


AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

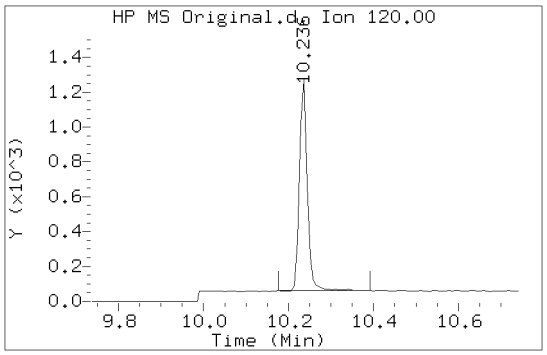


Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER
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240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
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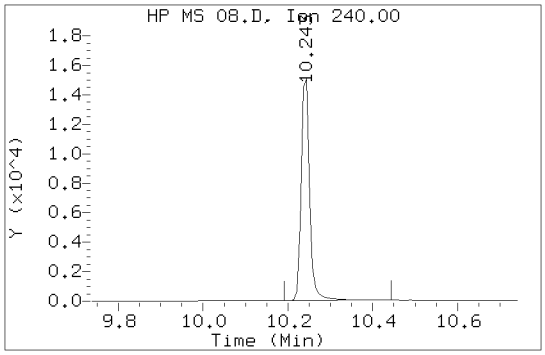

AFTER
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AREA
1547
HEIGHT
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18-Dec-2023
10:16
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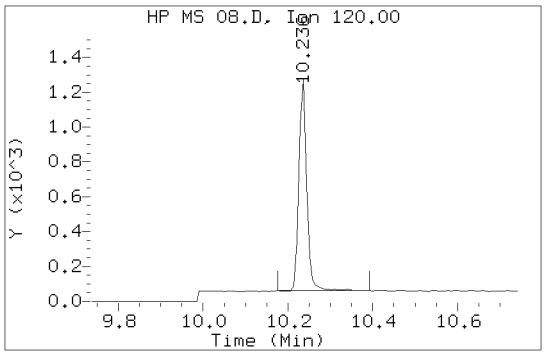

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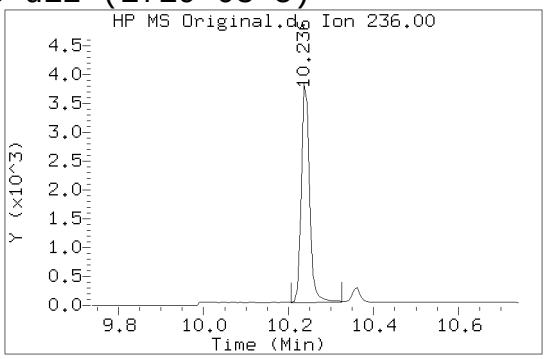
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

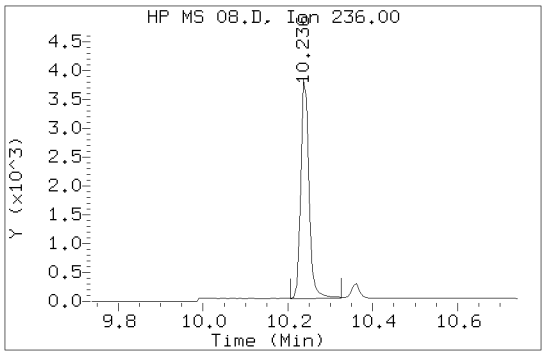
BEFORE

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
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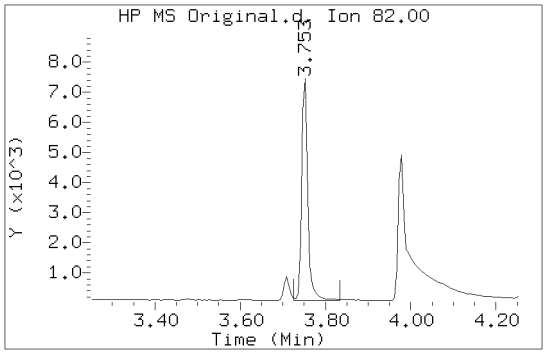
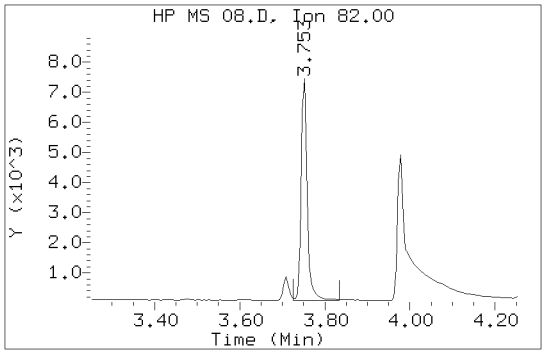
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



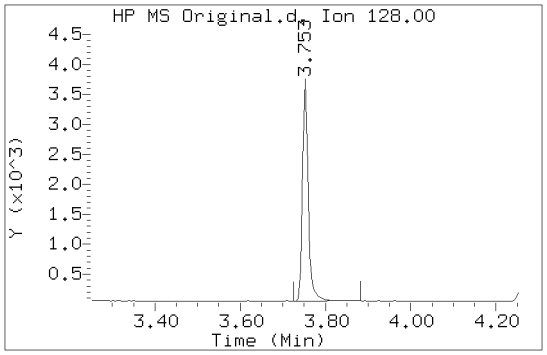
AFTER

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



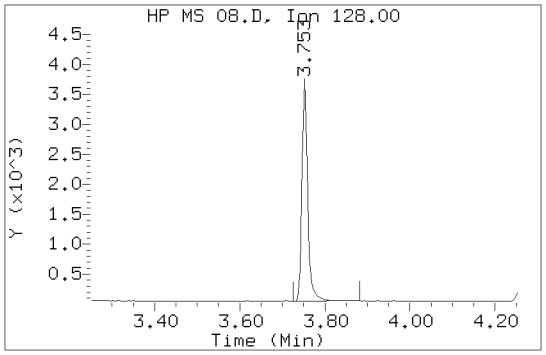
BEFORE

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
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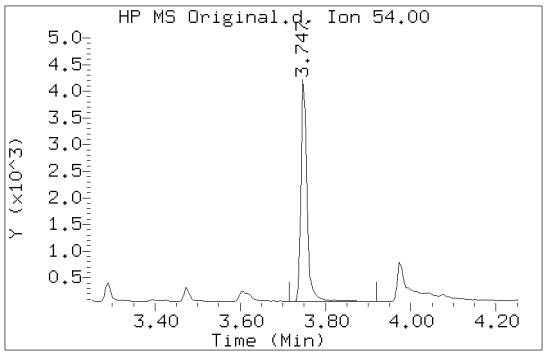
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
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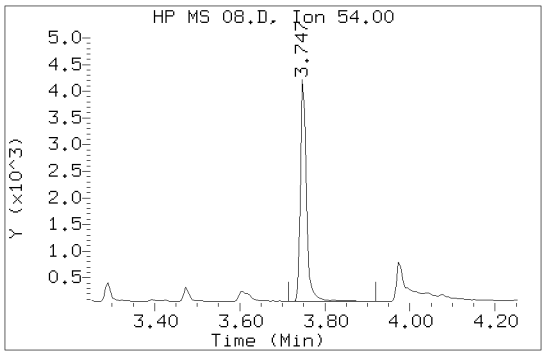
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



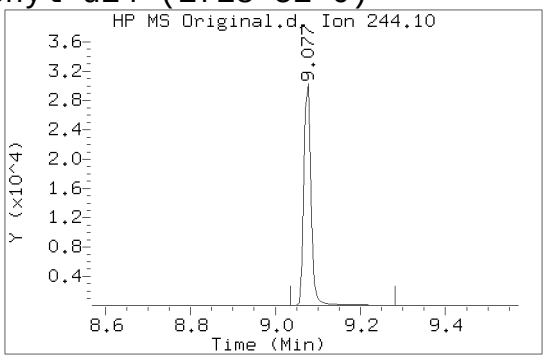
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

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
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AREA
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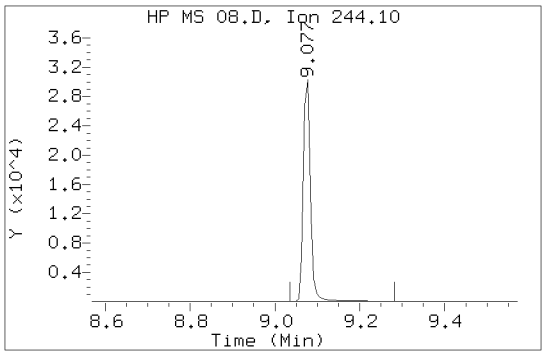
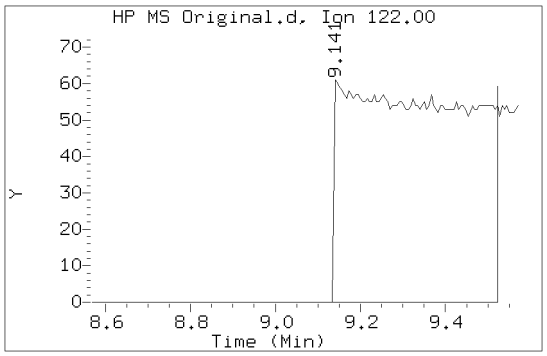
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



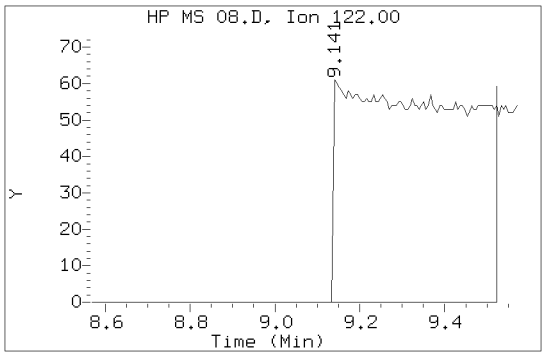
BEFORE

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
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AREA
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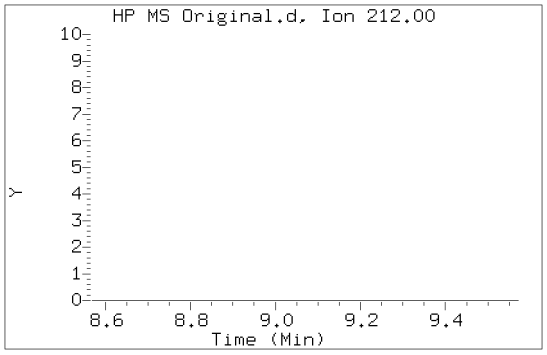
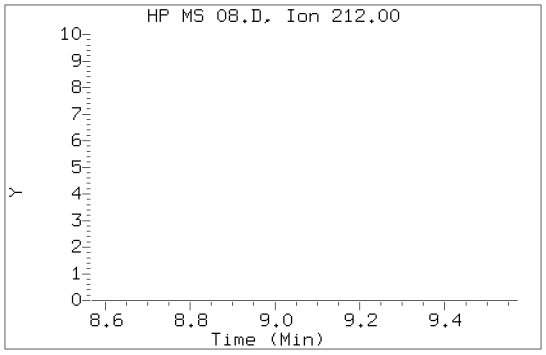
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.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\09.D
Lab Smp Id: PAHSIM-0.20 Client Smp ID: PAHSIM-0.20
Inj Date : 12-DEC-2023 15:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:19 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20197	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	11339	0.20000	0.2036(AM)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	12397	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	40079	0.20000	0.2030(AM)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	25613	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24600	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.887)	47723	0.20000	0.1910(AM)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25962	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	44126	0.20000	0.1991(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	30275	0.20000	0.2043(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.204)	28126	0.20000	0.2034
83 Acenaphthylene	152	5.915	5.915	(0.977)	46661	0.20000	0.2058
88 Acenaphthene	154	6.086	6.086	(1.005)	28559	0.20000	0.1998
98 Fluorene	166	6.588	6.588	(1.088)	35908	0.20000	0.2044
92 Dibenzofuran	168	6.717	6.717	(1.109)	18738	0.20000	0.2022(AM)
128 Phenanthrene	178	7.516	7.516	(1.002)	56684	0.20000	0.2022
130 Anthracene	178	7.566	7.566	(1.009)	56240	0.20000	0.2013(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	66819	0.20000	0.2004
155 Pyrene	202	8.893	8.893	(0.869)	71204	0.20000	0.1991(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	67102	0.20000	0.2012(M)
183 Chrysene	228	10.265	10.265 (1.003)	74306	0.20000	0.1998(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	62840	0.20000	0.1950
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	77579	0.20000	0.1989(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	64341	0.20000	0.2060(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	74022	0.20000	0.1980(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	64775	0.20000	0.2086(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	68404	0.20000	0.2049(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D

Date : 12-DEC-2023 15:39

Client ID: PAHSIM-0.20

Instrument: SV6.i

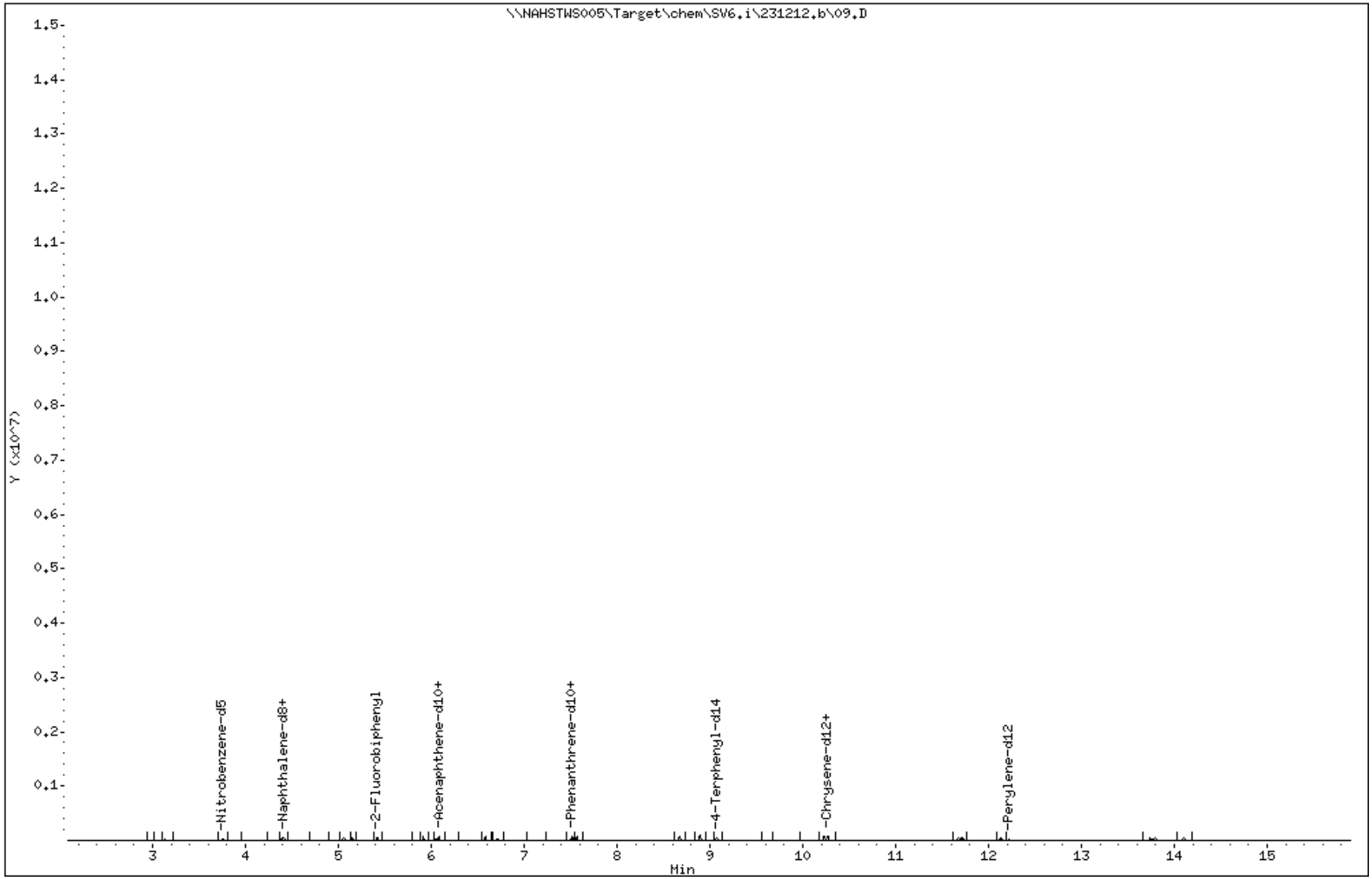
Sample Info: PAHSIM-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



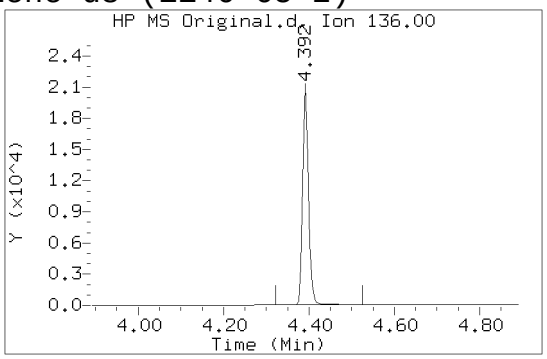
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

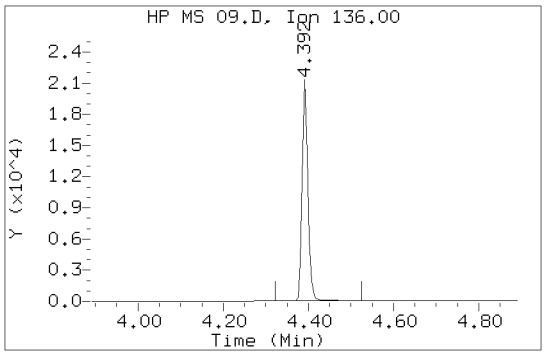
BEFORE

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



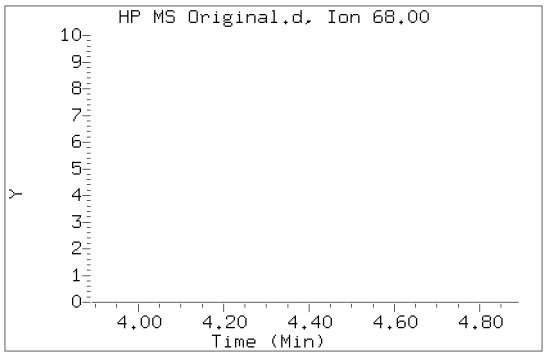
AFTER

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



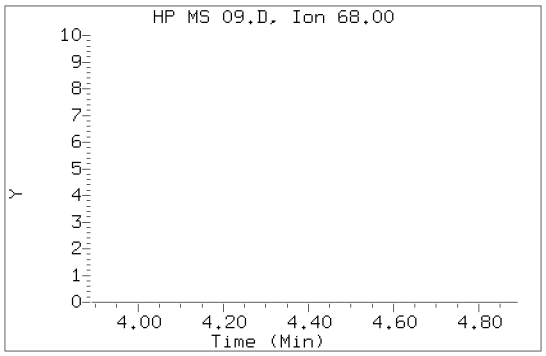
BEFORE

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

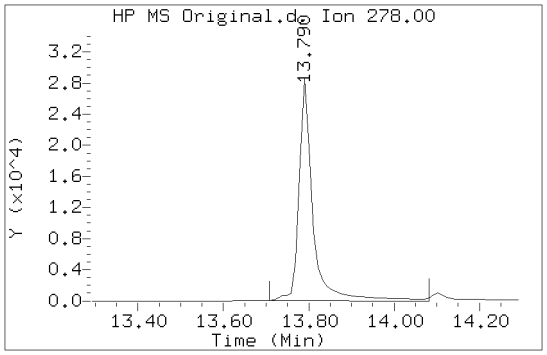


Dibenzo(a,h)anthracene (53-70-3)

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
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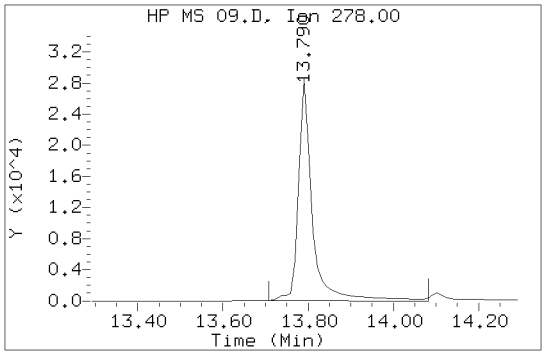
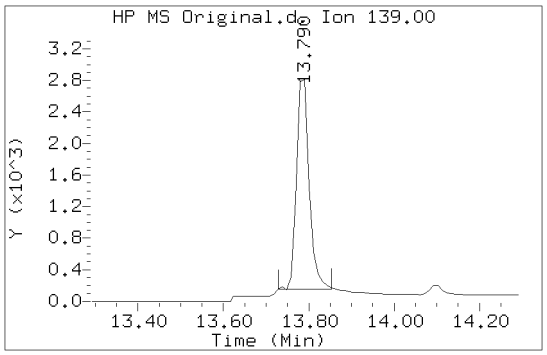


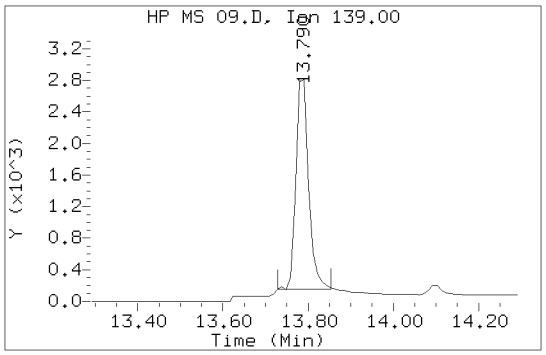
BEFORE

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



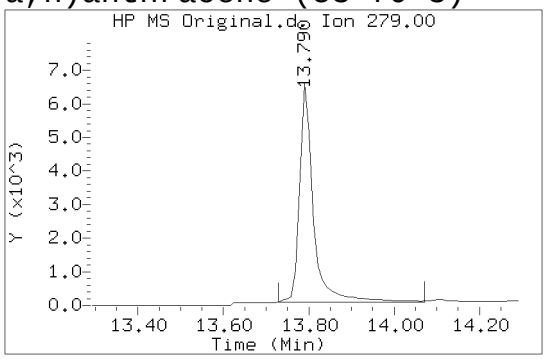
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

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
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HEIGHT
6499
18-Dec-2023
10:16
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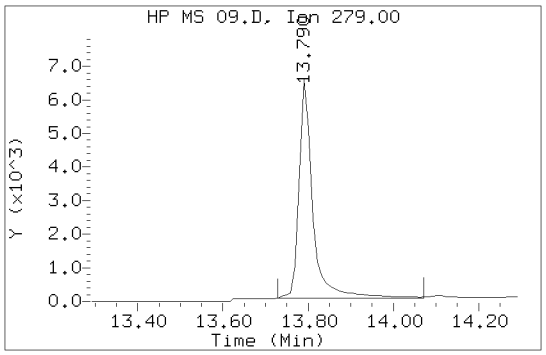
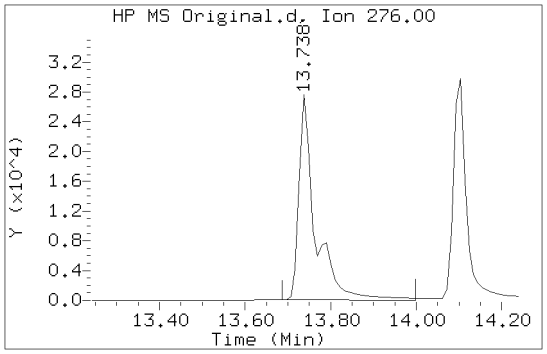


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



AFTER

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HEIGHT
27593
18-Dec-2023
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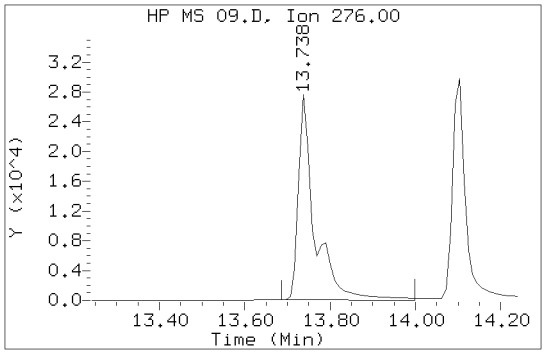
pham



BEFORE

MASS
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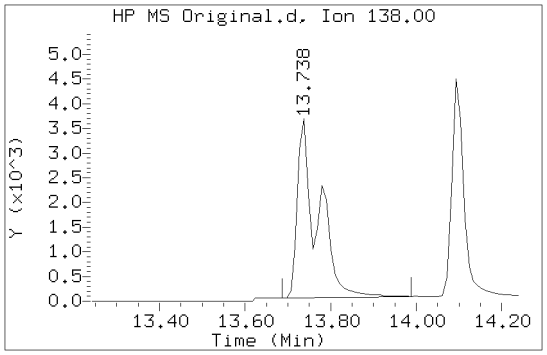
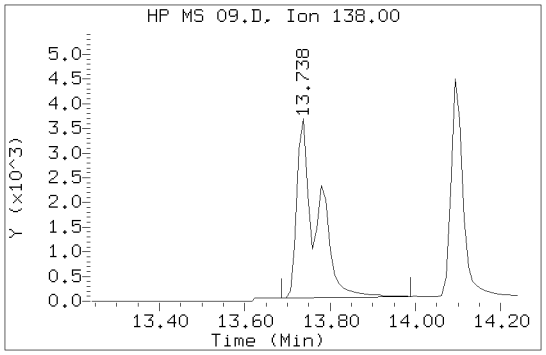
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



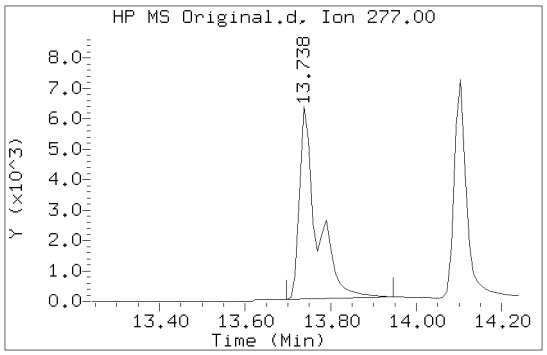
AFTER

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



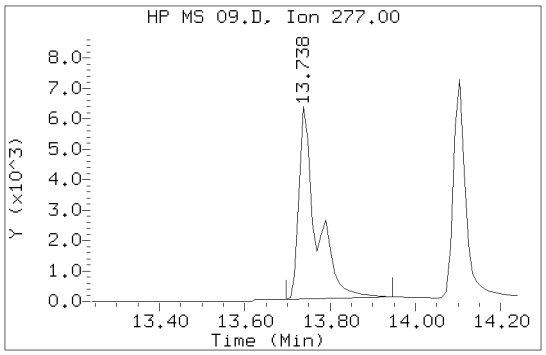
BEFORE

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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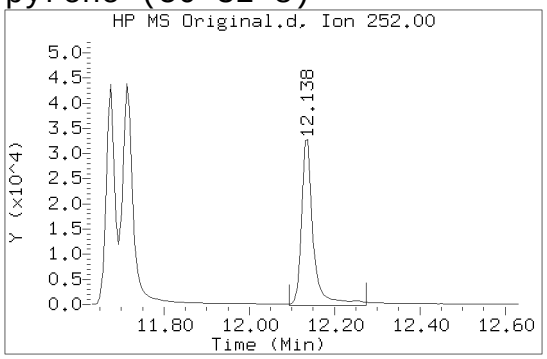
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(a)pyrene (50-32-8)

Reason Code:

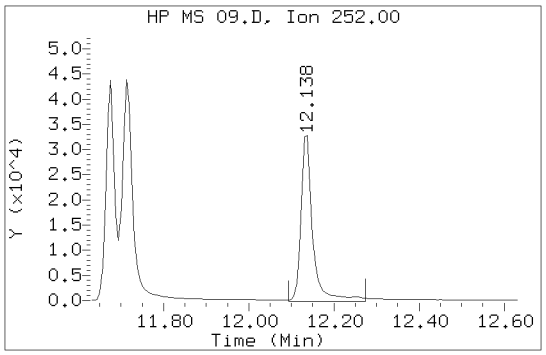
BEFORE

MASS
252
AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



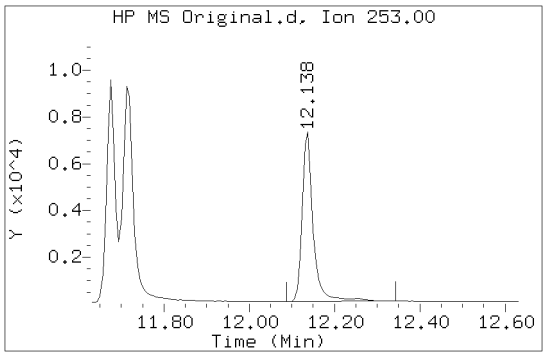
AFTER

MASS
252
AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



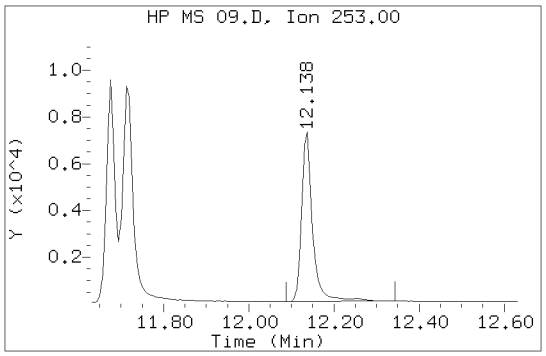
BEFORE

MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



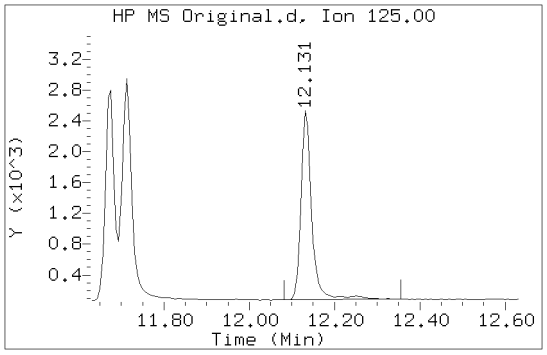
AFTER

MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



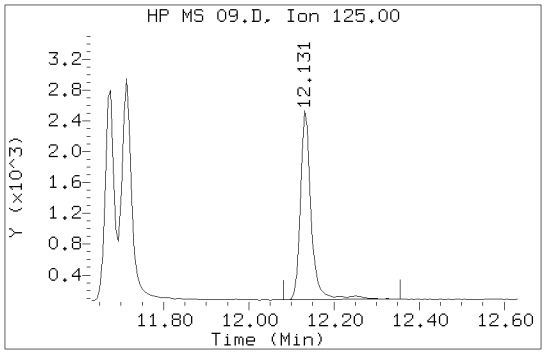
BEFORE

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

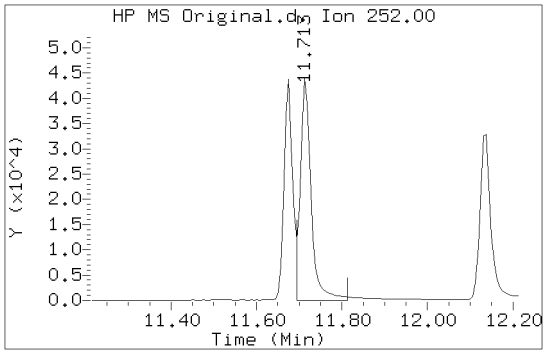


Benzo(k)fluoranthene (207-08-9)

Reason Code:

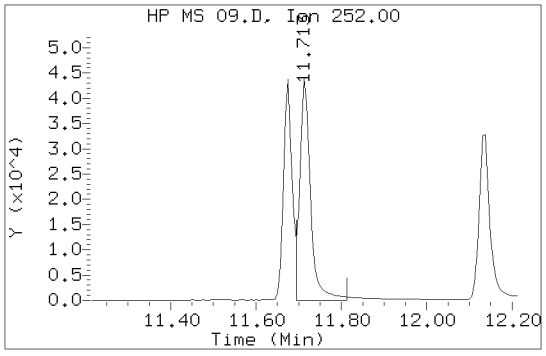
BEFORE

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

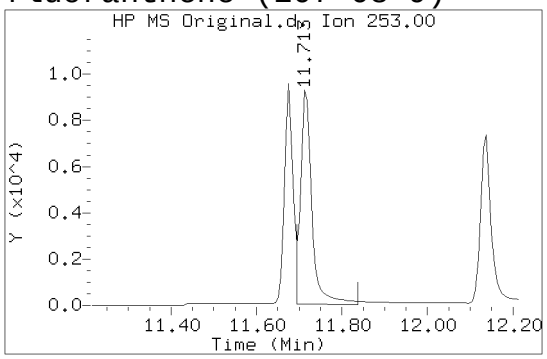


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

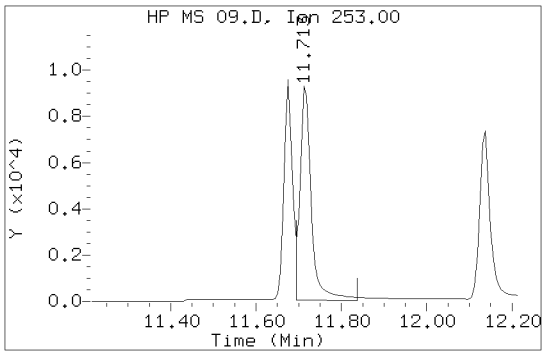
Benzo(k)fluoranthene (207-08-9)

Reason Code:

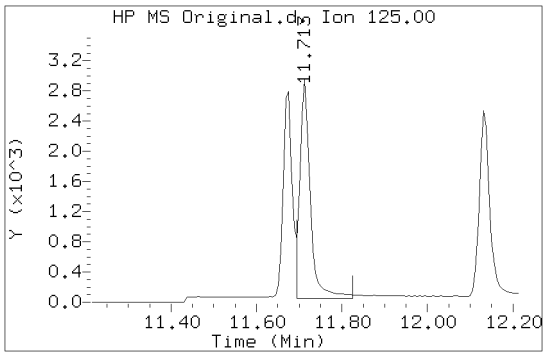
BEFORE
MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



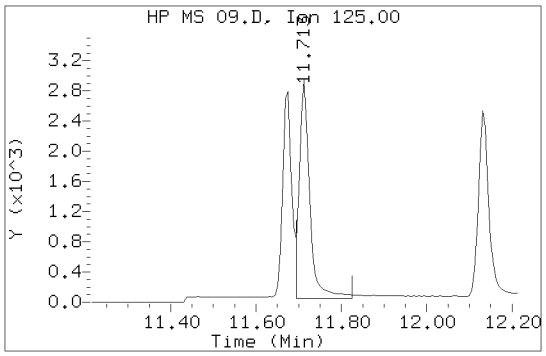
AFTER
MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



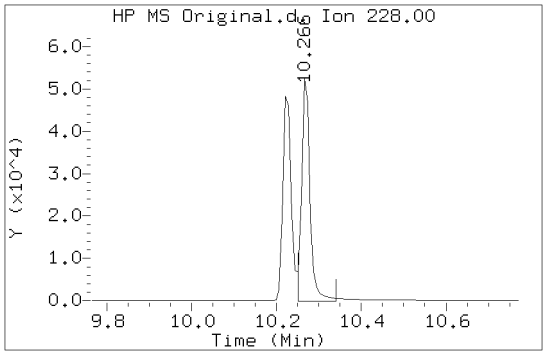
AFTER
MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



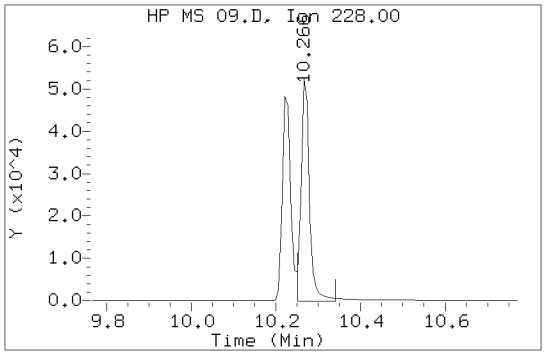
Chrysene (218-01-9)

Reason Code:

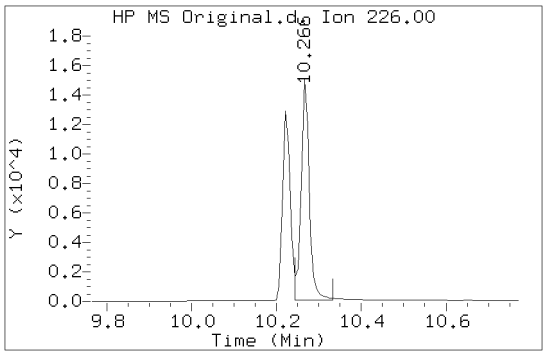
BEFORE
MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



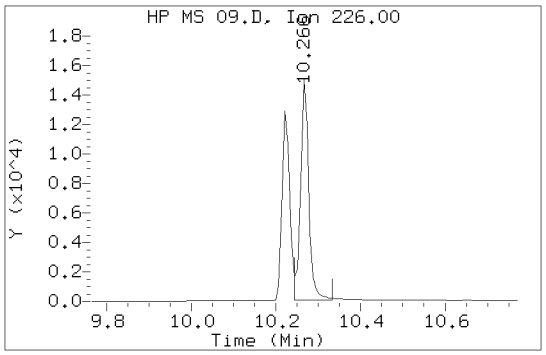
AFTER
MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



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



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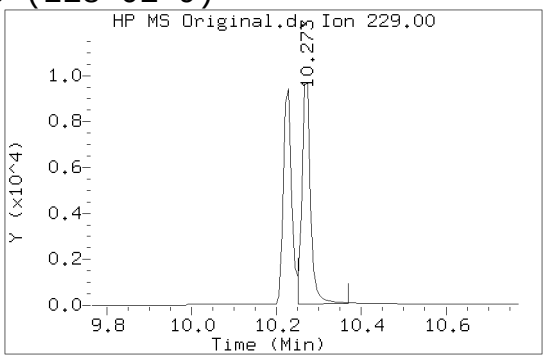
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene (218-01-9)

Reason Code:

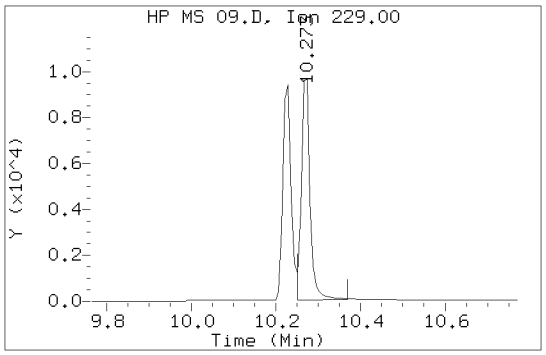
BEFORE

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

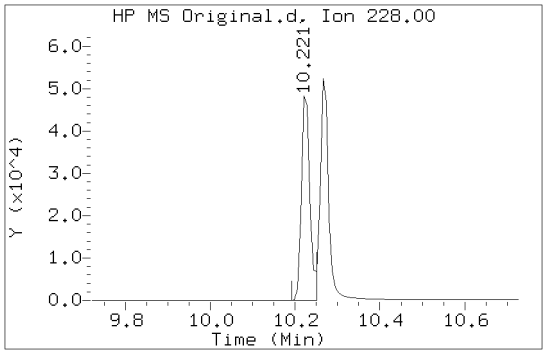


Benzo(a)Anthracene (56-55-3)

Reason Code:

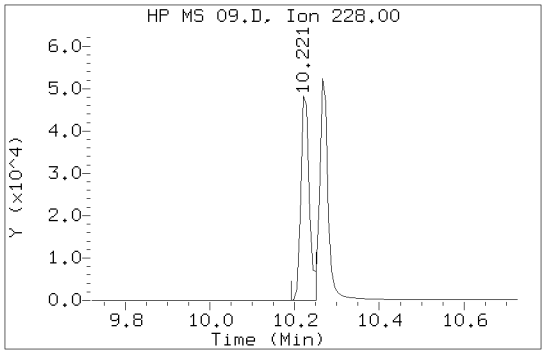
BEFORE

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



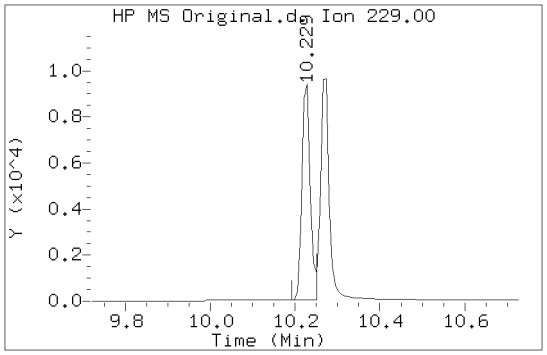
AFTER

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



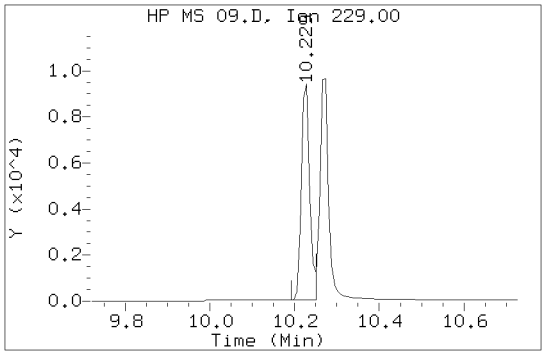
BEFORE

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



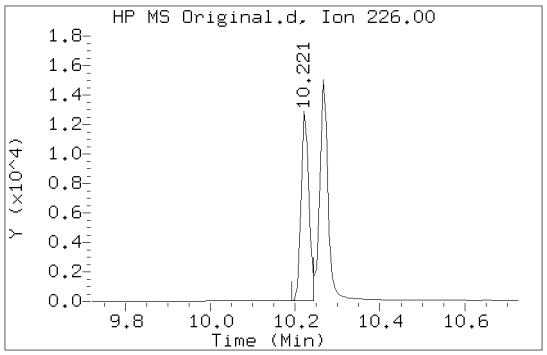
AFTER

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



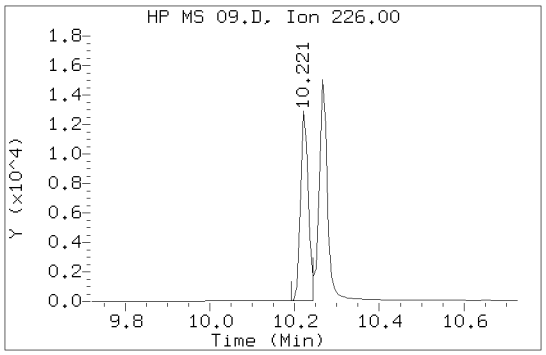
BEFORE

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



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Inj Date : 12-DEC-2023 15:39
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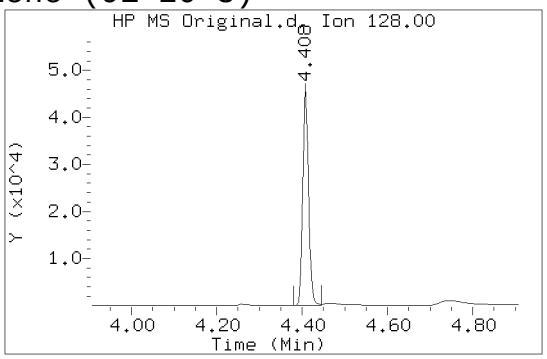
Naphthalene (91-20-3)

Reason Code:

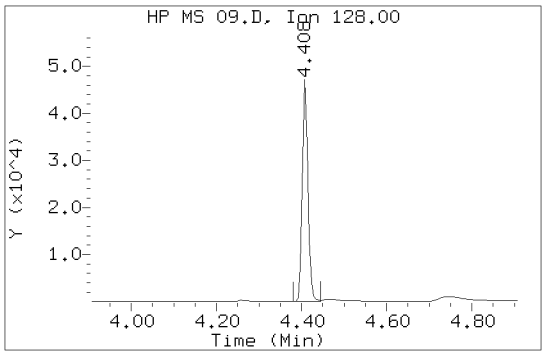
BEFORE

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



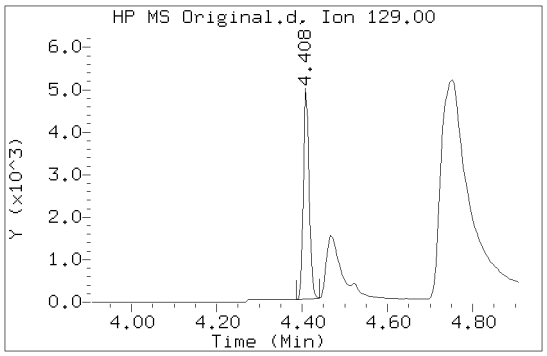
AFTER

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



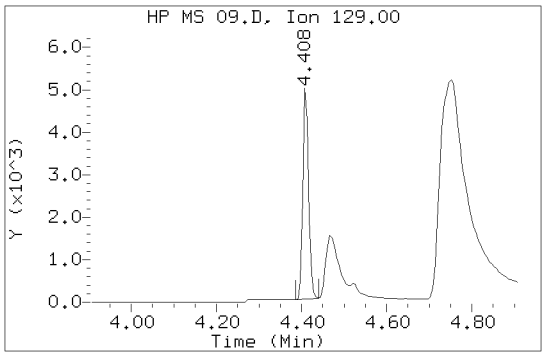
BEFORE

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

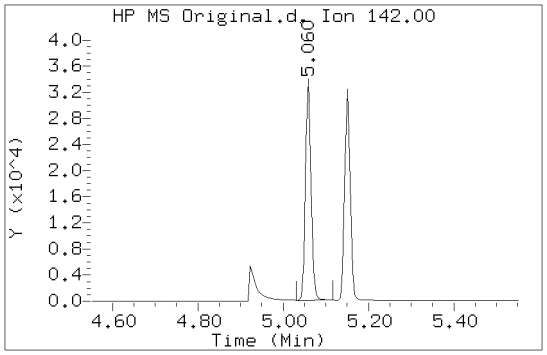


2-Methylnaphthalene (91-57-6)

Reason Code:

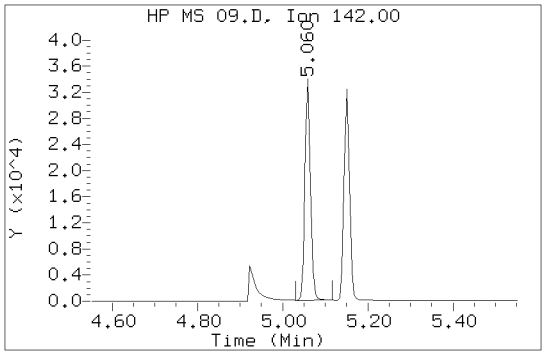
BEFORE

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



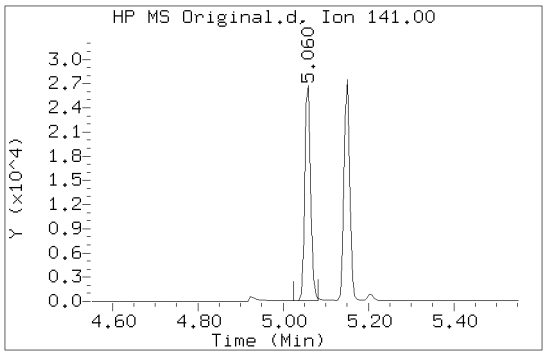
AFTER

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



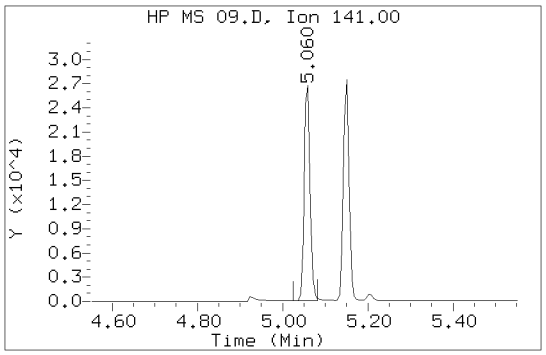
BEFORE

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



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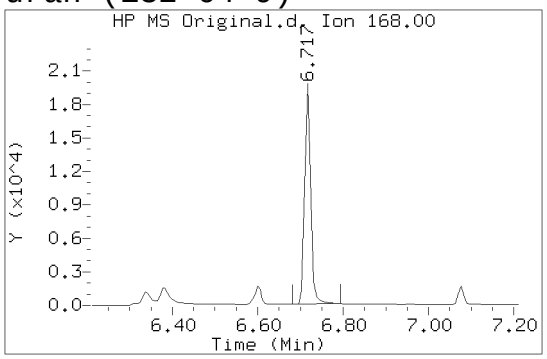
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzofuran (132-64-9)

Reason Code:

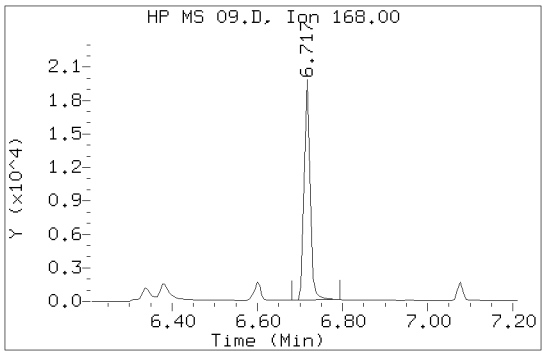
BEFORE

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



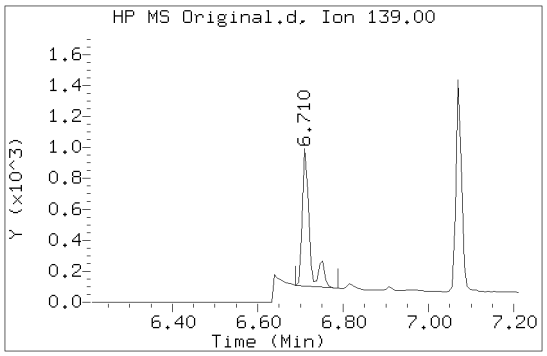
AFTER

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



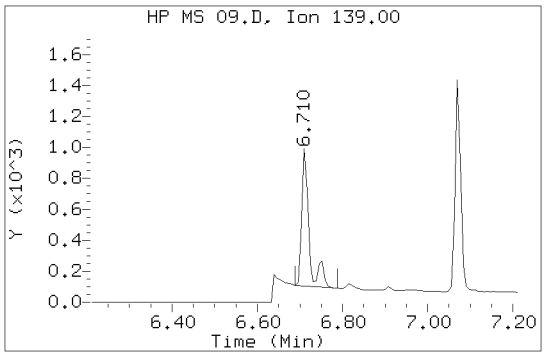
BEFORE

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

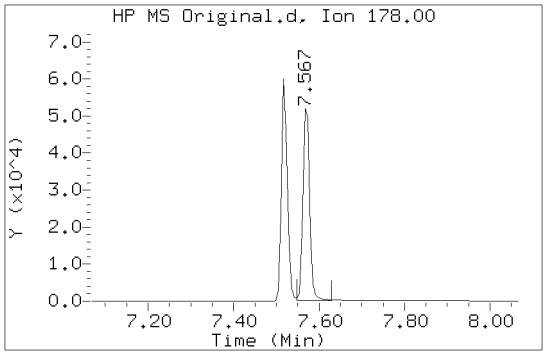


Anthracene (120-12-7)

Reason Code:

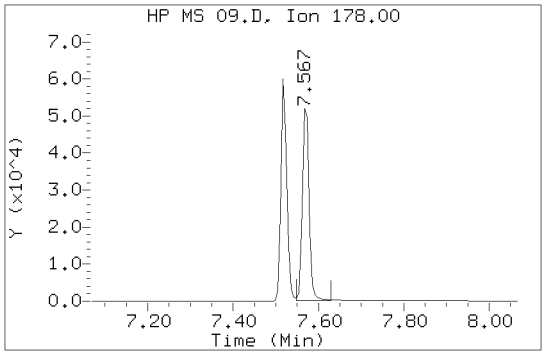
BEFORE

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



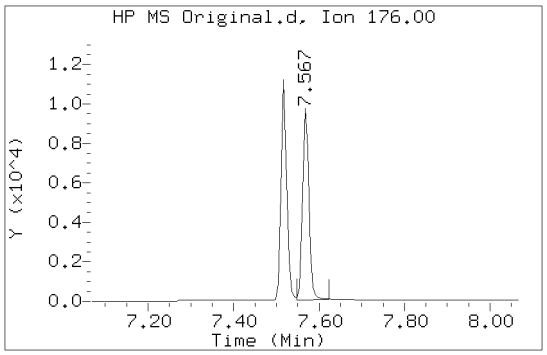
AFTER

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



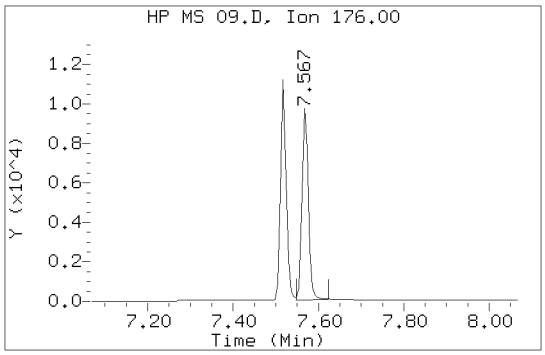
BEFORE

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



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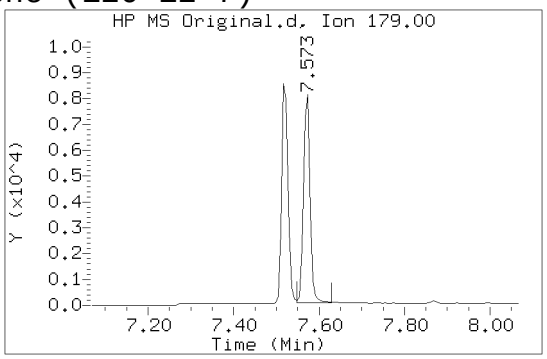
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Anthracene (120-12-7)

Reason Code:

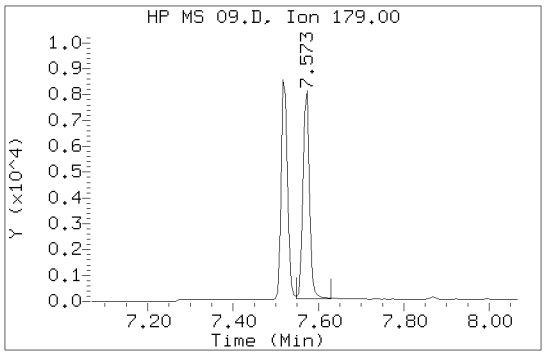
BEFORE

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

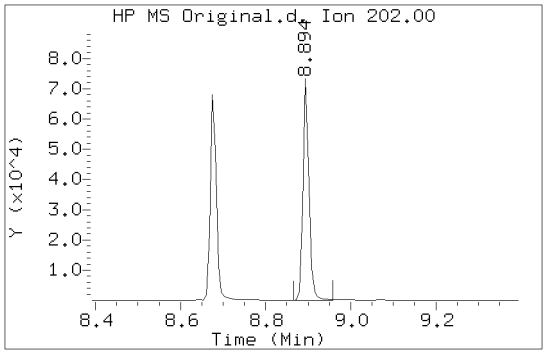


Pyrene (129-00-0)

Reason Code:

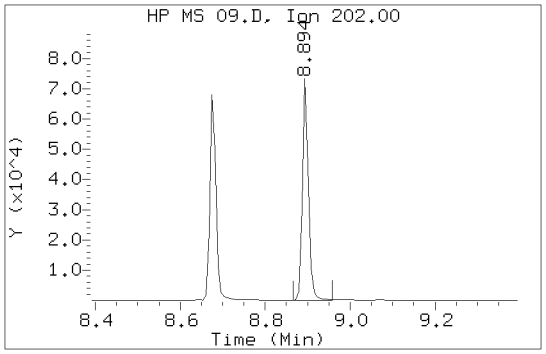
BEFORE

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



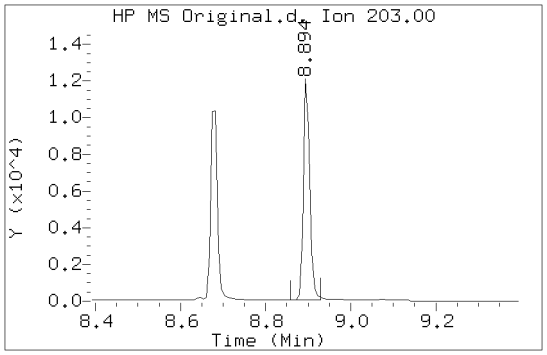
AFTER

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



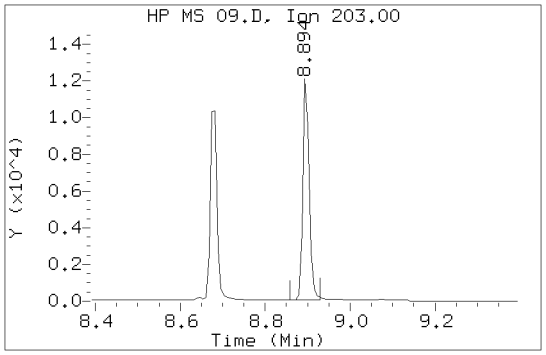
BEFORE

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



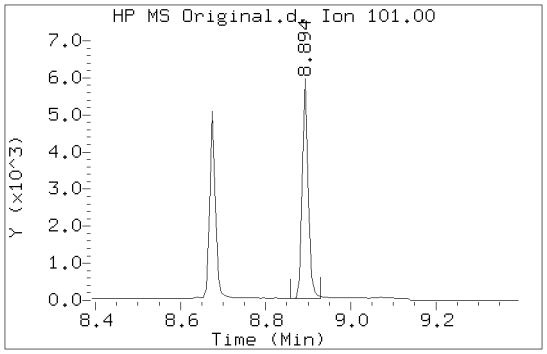
AFTER

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



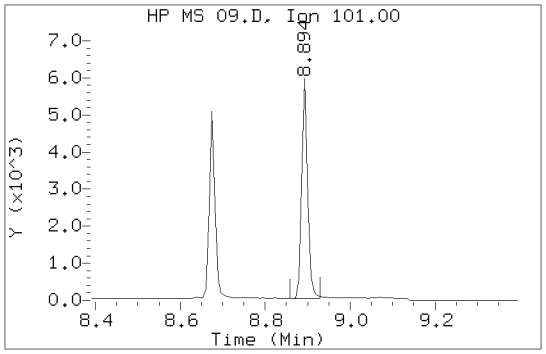
BEFORE

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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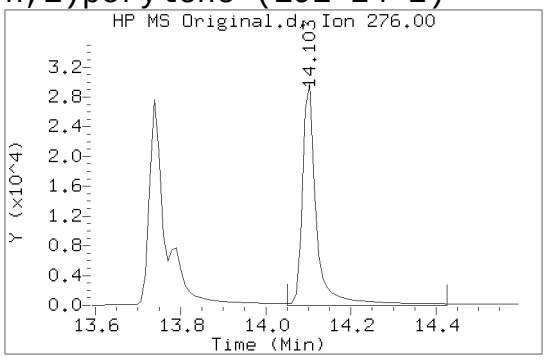
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

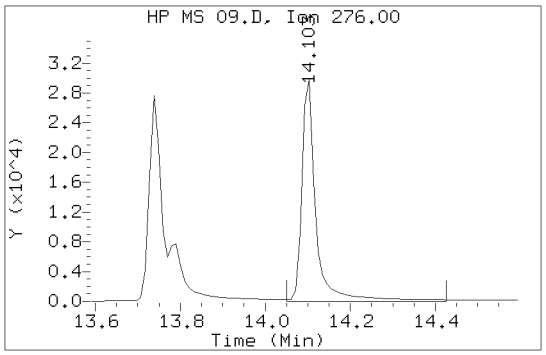
BEFORE

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



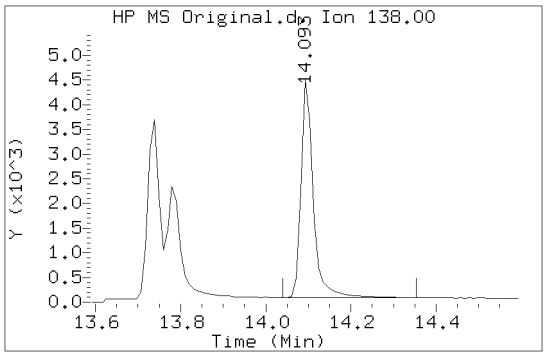
AFTER

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



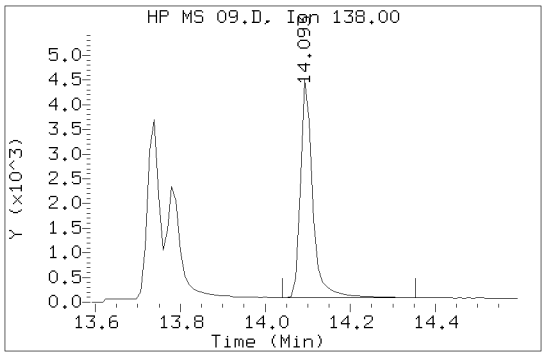
BEFORE

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



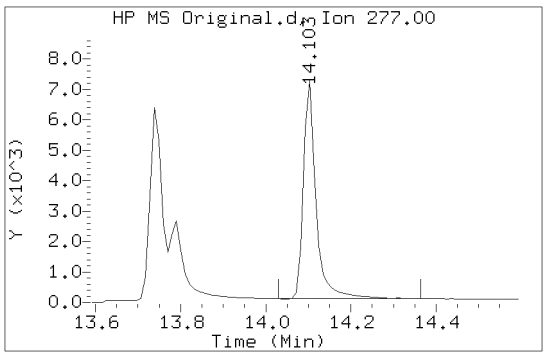
AFTER

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



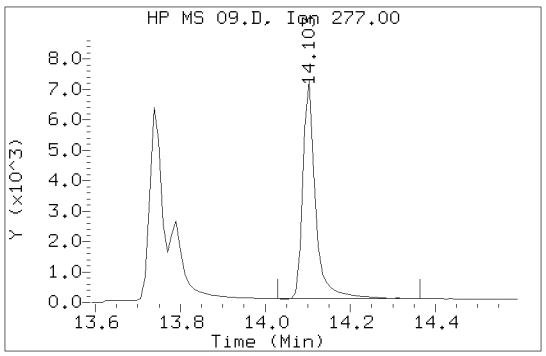
BEFORE

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

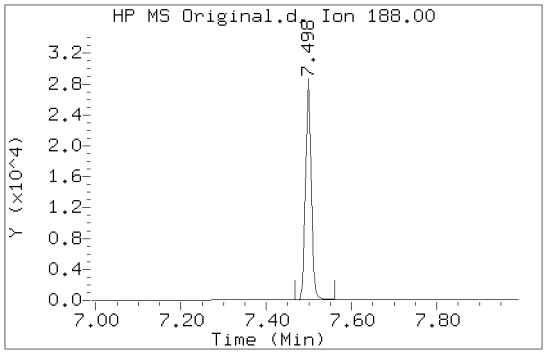


Phenanthrene-d10 (1517-22-2)

Reason Code:

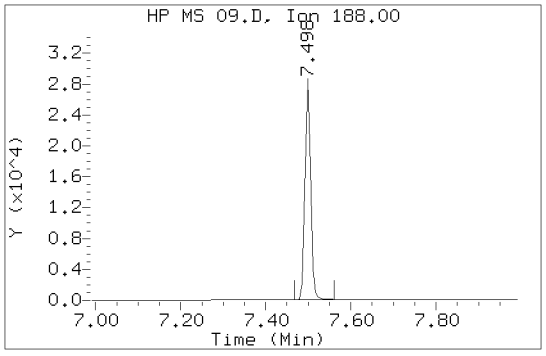
BEFORE

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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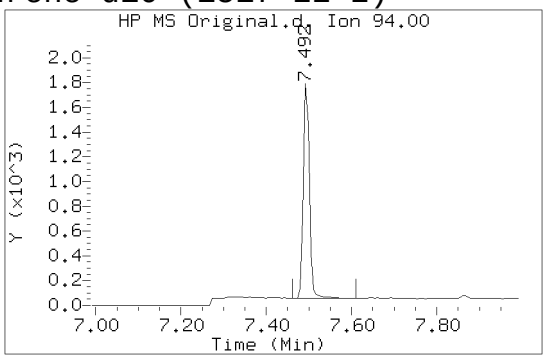
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

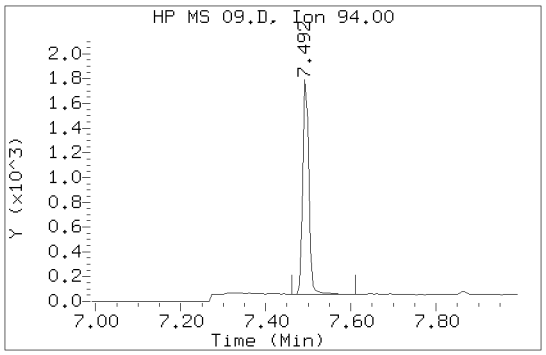
BEFORE

MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham



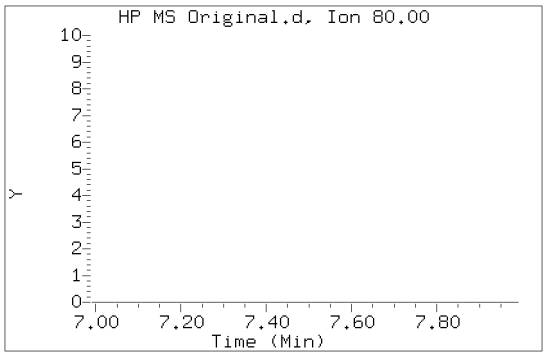
AFTER

MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham



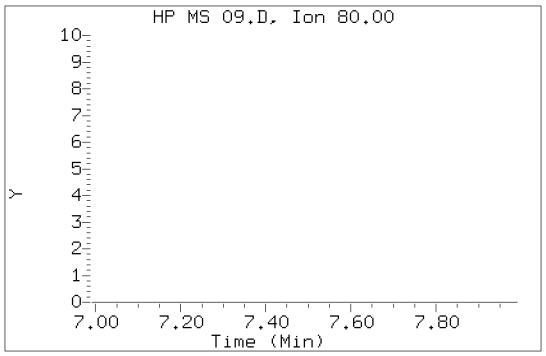
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

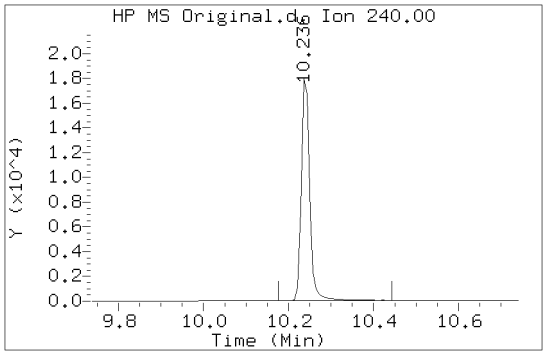


Chrysene-d12 (1719-03-5)

Reason Code:

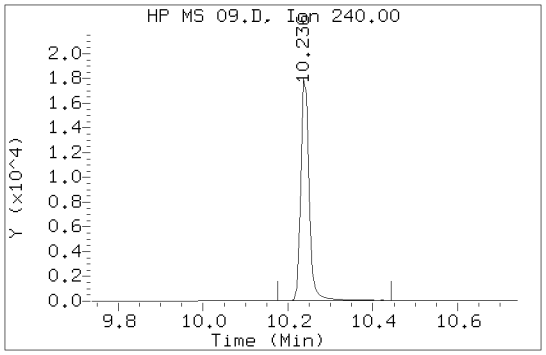
BEFORE

MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



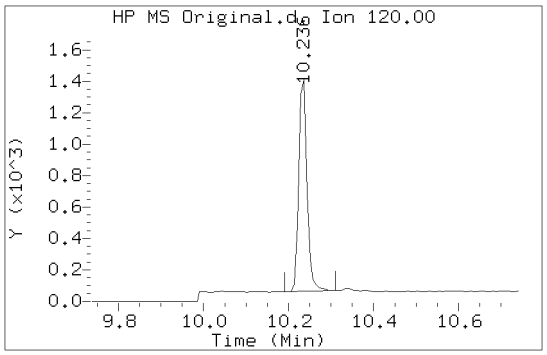
AFTER

MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



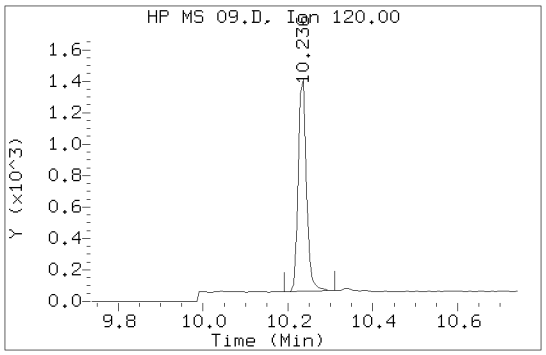
BEFORE

MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



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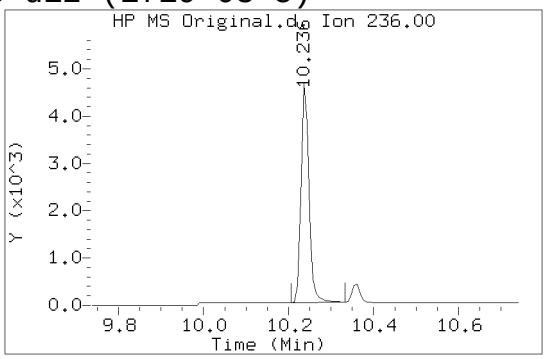
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

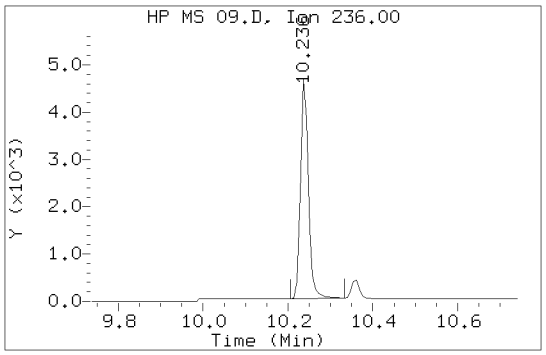
BEFORE

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham

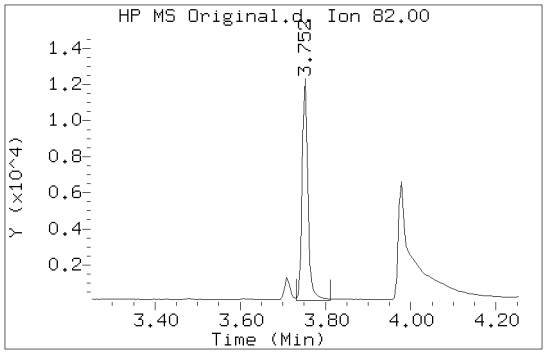


Nitrobenzene-d5 (4165-60-0)

Reason Code:

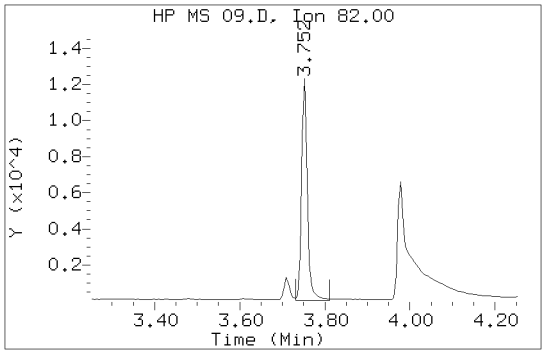
BEFORE

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



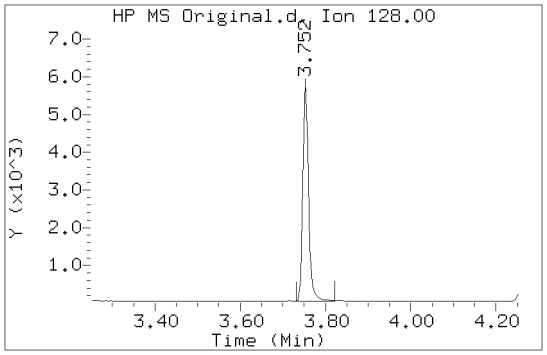
AFTER

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



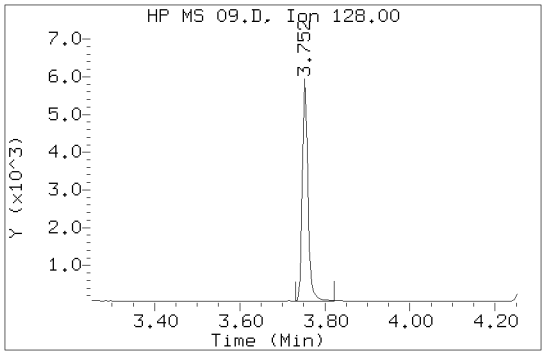
BEFORE

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



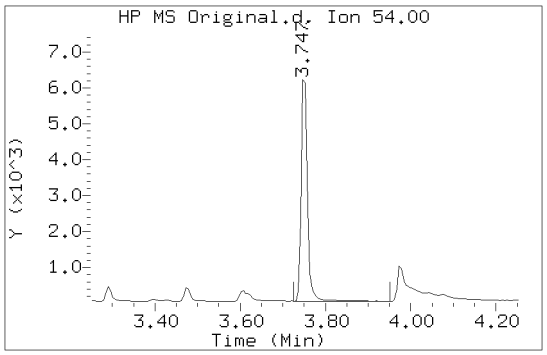
AFTER

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



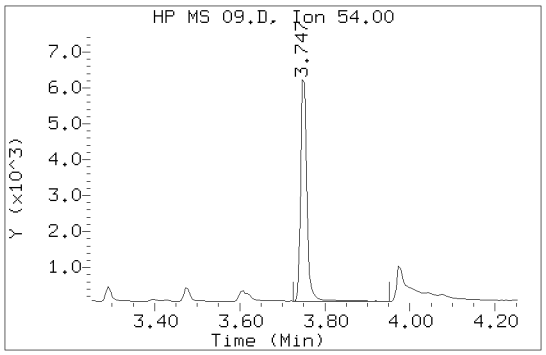
BEFORE

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



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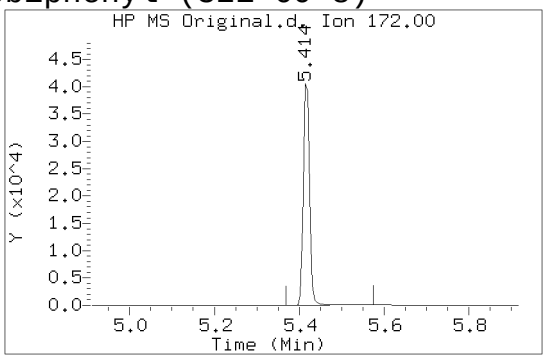
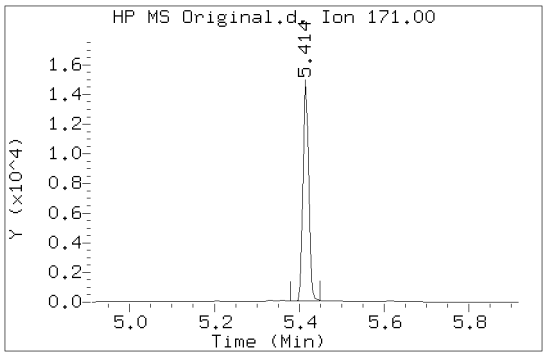
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

2-Fluorobiphenyl (321-60-8)

BEFORE
MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham

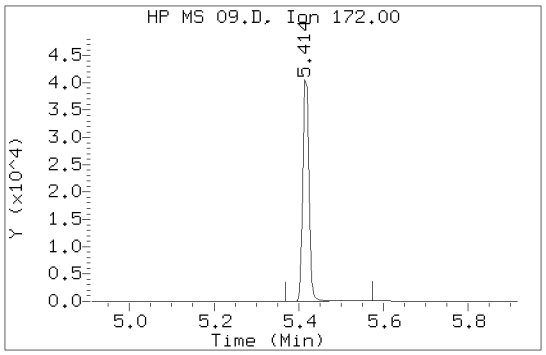


BEFORE
MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham

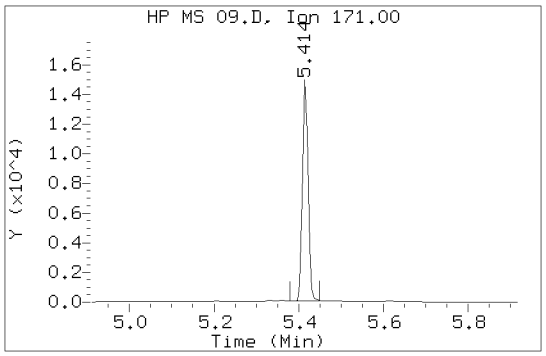


Reason Code:

AFTER
MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham

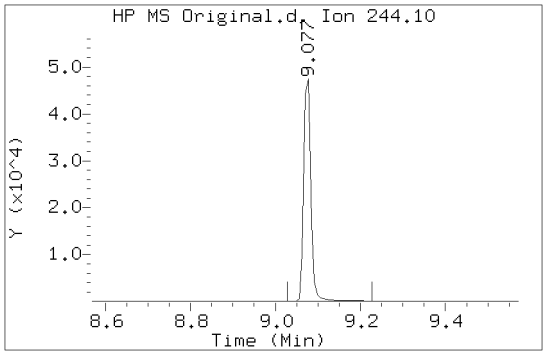


AFTER
MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham

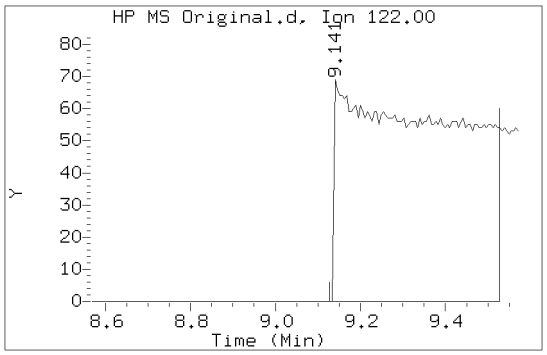


4-Terphenyl-d14 (1718-51-0)

BEFORE
MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham

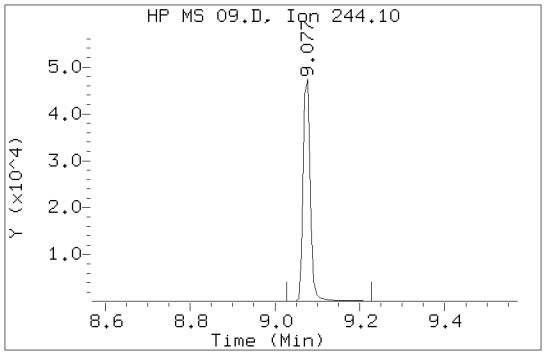


BEFORE
MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham

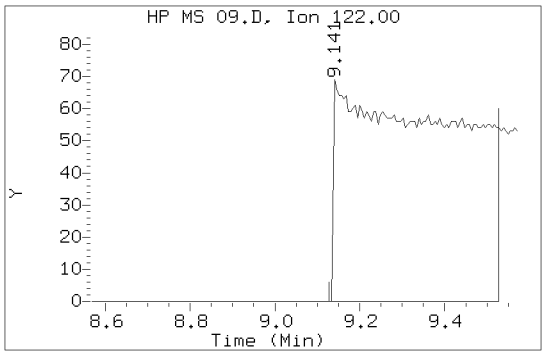


Reason Code:

AFTER
MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



AFTER
MASS
122
AREA
1351
HEIGHT
69
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

4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE

MASS
212
AREA
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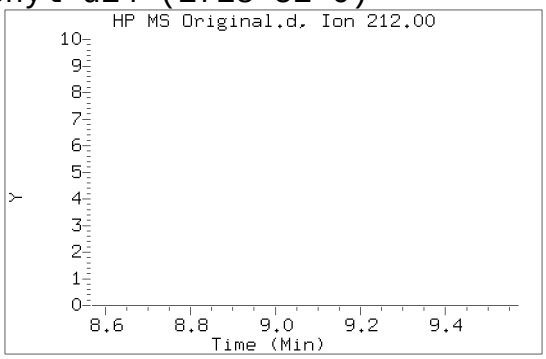
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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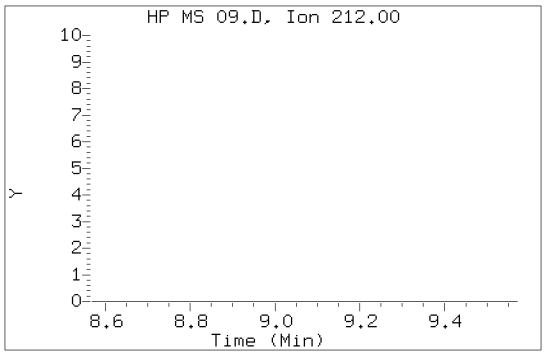
18-Dec-2023
10:16
linh
pham



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)	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)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.670	11.670	(0.955)	184151	0.50000	0.4922
195 Benzo(k)fluoranthene	252	11.714	11.714	(0.959)	228007	0.50000	0.5036(AM)
197 Benzo(a)pyrene	252	12.132	12.132	(0.993)	182895	0.50000	0.5043(AM)
209 Indeno(1,2,3-cd)pyrene	276	13.739	13.739	(1.124)	217277	0.50000	0.5007(AM)
210 Dibenzo(a,h)anthracene	278	13.791	13.791	(1.129)	180668	0.50000	0.5012(AM)
212 Benzo(g,h,i)perylene	276	14.094	14.094	(1.153)	183621	0.50000	0.4738(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D

Date : 12-DEC-2023 15:59

Client ID: PAHSIM-0.50

Instrument: SV6.i

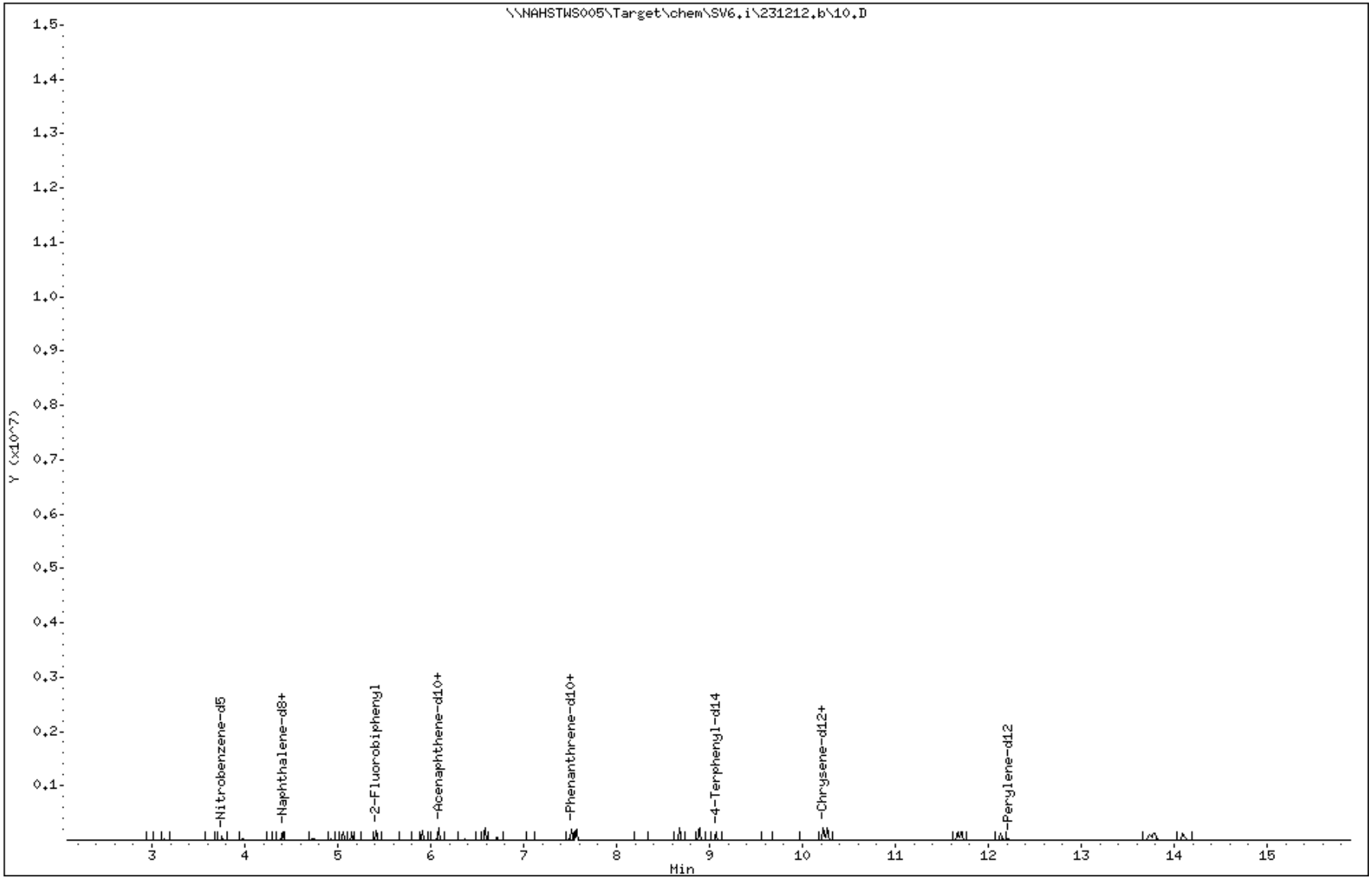
Sample Info: PAHSIM-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



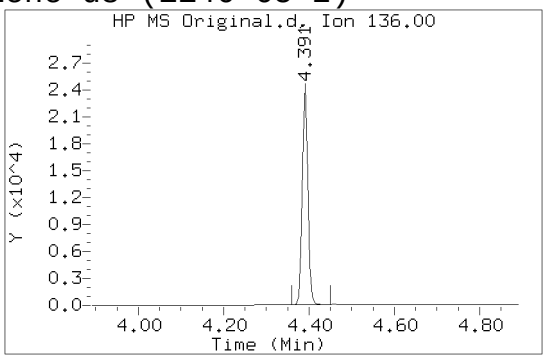
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

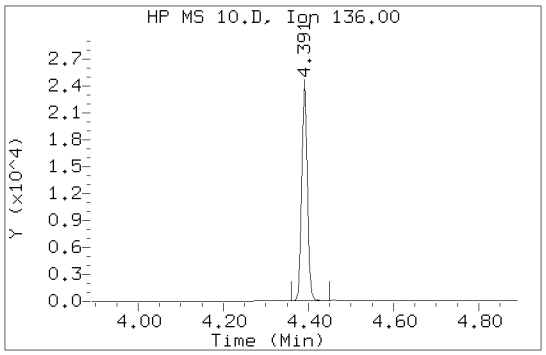
BEFORE

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
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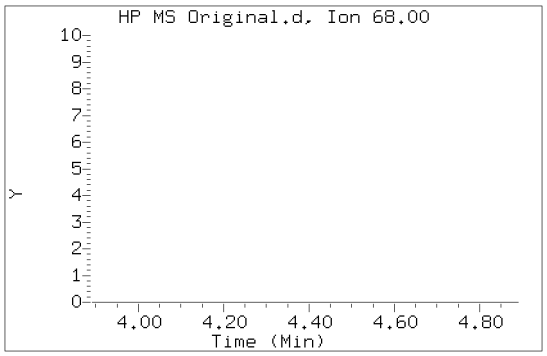
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
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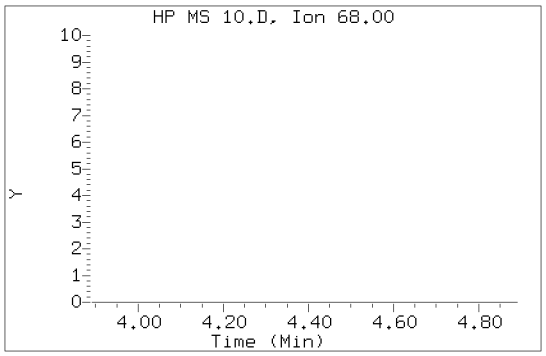
HEIGHT
0
18-Dec-2023
10:16
linh
pham

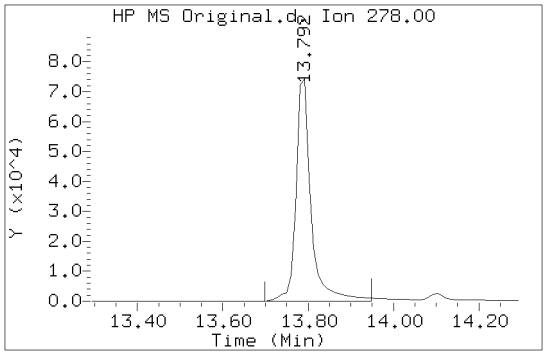


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



AFTER

MASS
278
AREA
180668
HEIGHT
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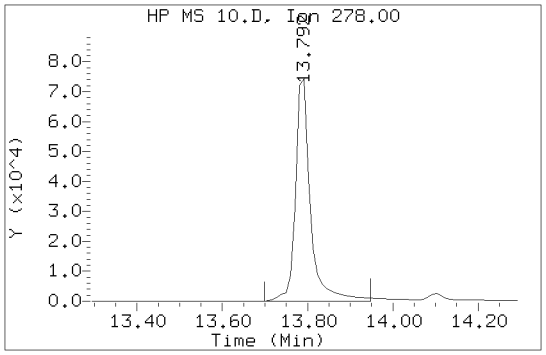
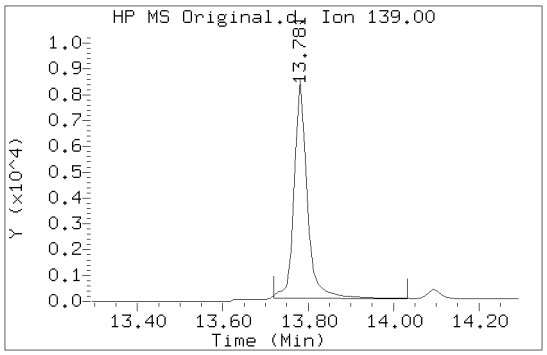
18-Dec-2023
10:16
linh
pham



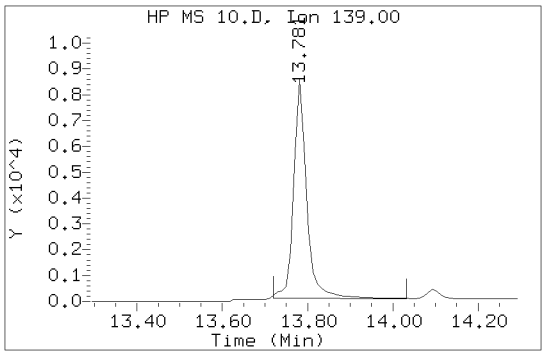
BEFORE

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



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

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
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AREA
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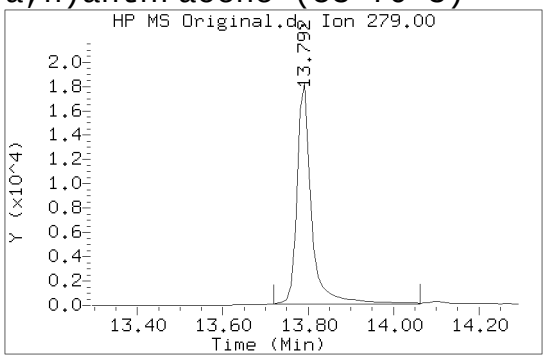
HEIGHT
18124
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
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HEIGHT
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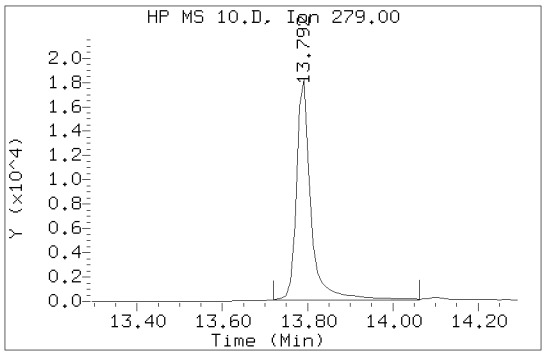
18-Dec-2023
10:16
linh
pham



Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
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AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
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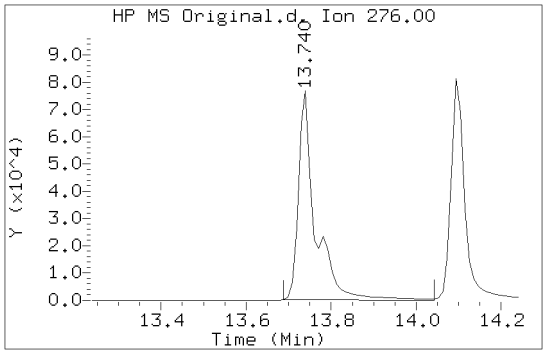

AFTER

MASS
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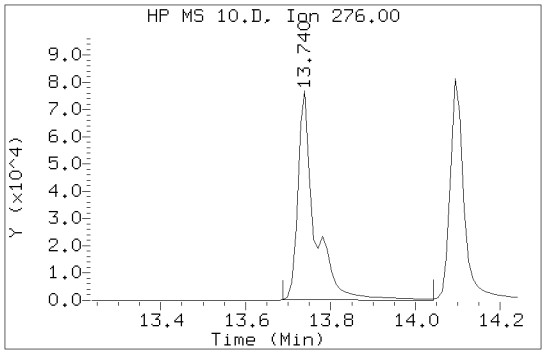

BEFORE

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18-Dec-2023
10:16
linh
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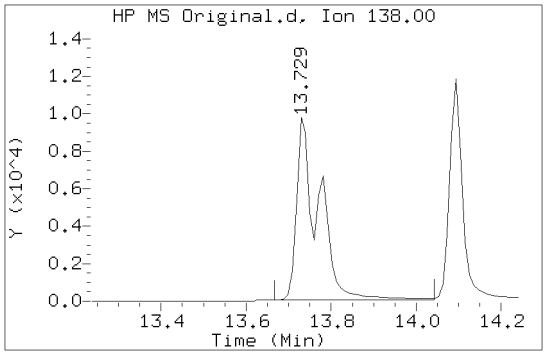

AFTER

MASS
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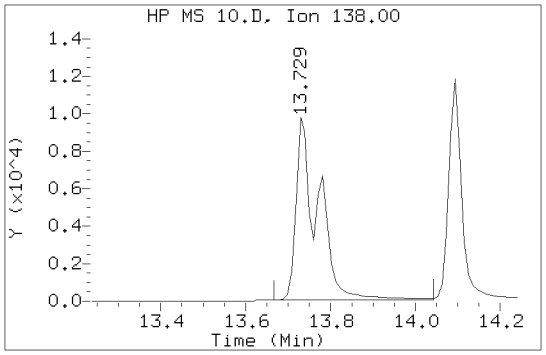

BEFORE

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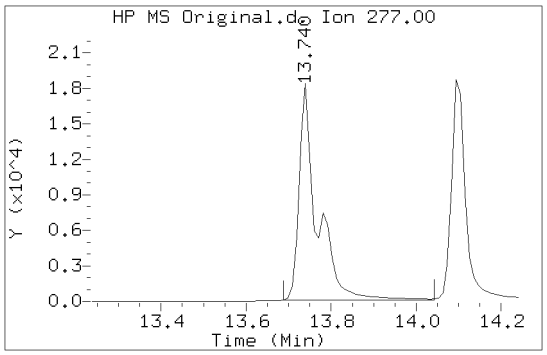

AFTER

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18-Dec-2023
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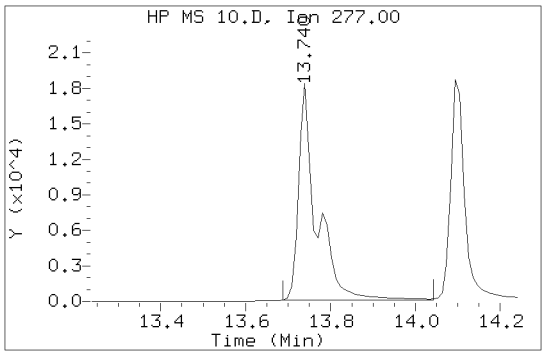

Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
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AREA
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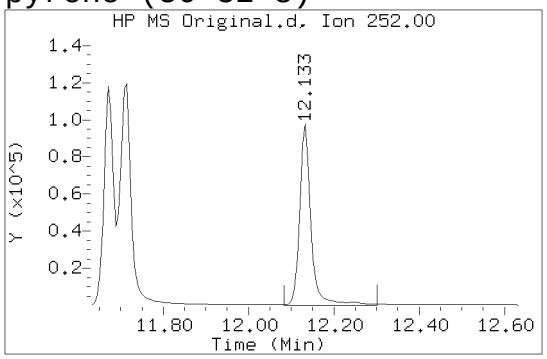
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



AFTER

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HEIGHT
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18-Dec-2023
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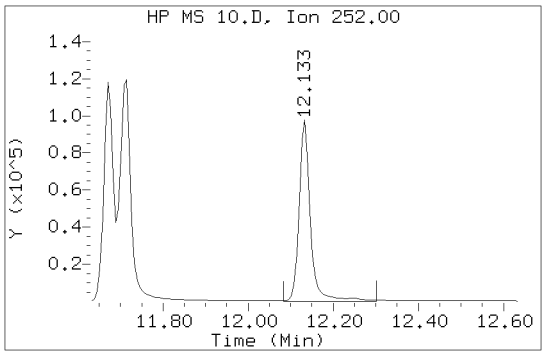
pham



BEFORE

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21301
18-Dec-2023
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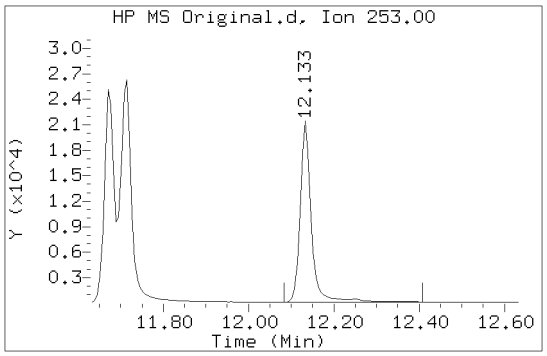

AFTER

MASS
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AREA
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21301
18-Dec-2023
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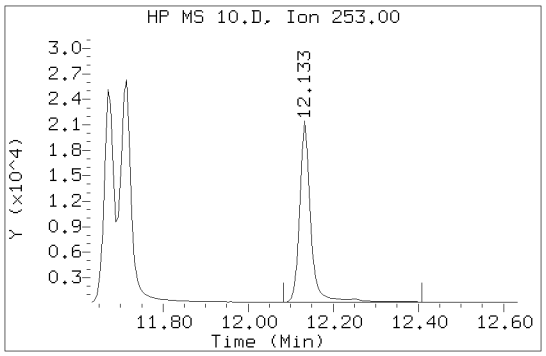

BEFORE

MASS
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AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
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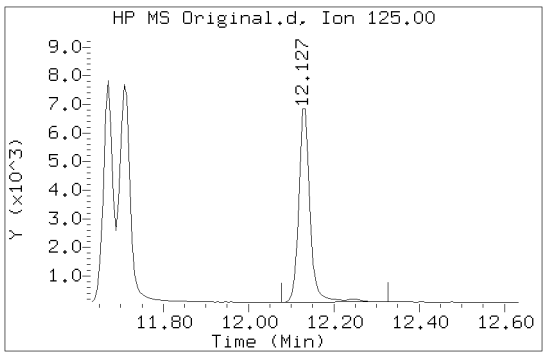
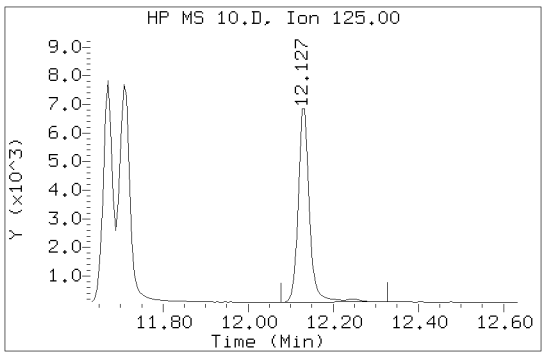
pham



AFTER

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham



Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

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AREA
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HEIGHT
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18-Dec-2023
10:16
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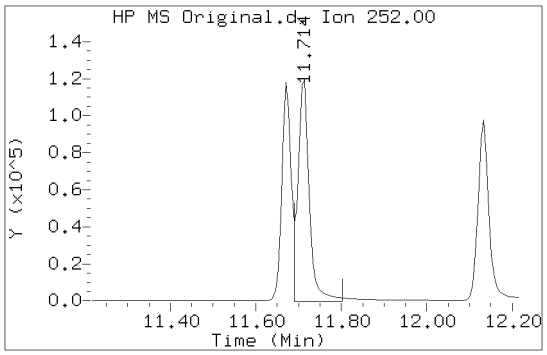

AFTER

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HEIGHT
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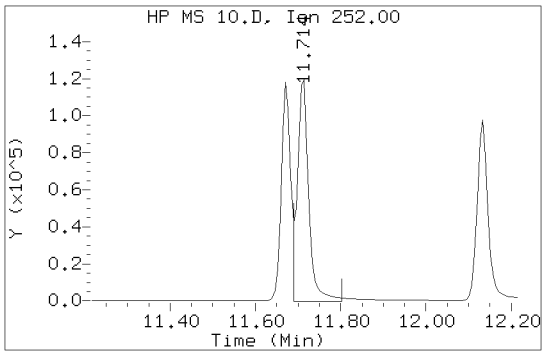


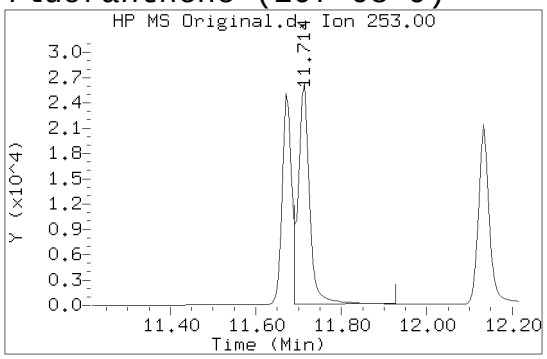
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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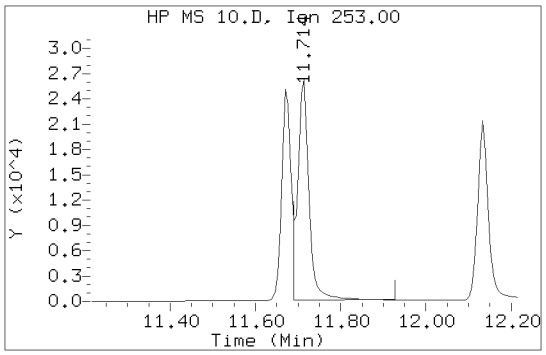

BEFORE

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AREA
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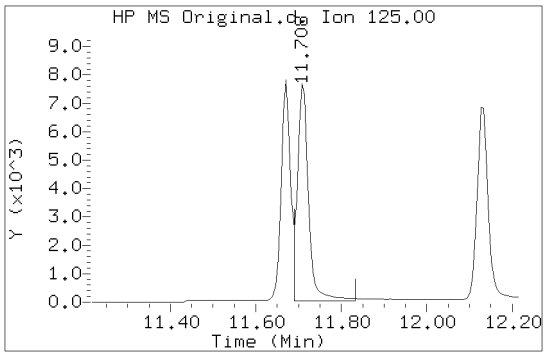
HEIGHT
7646
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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18-Dec-2023
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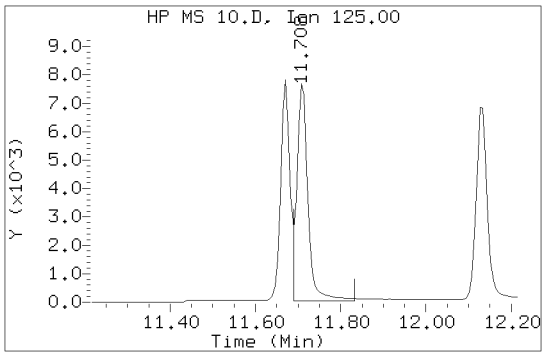
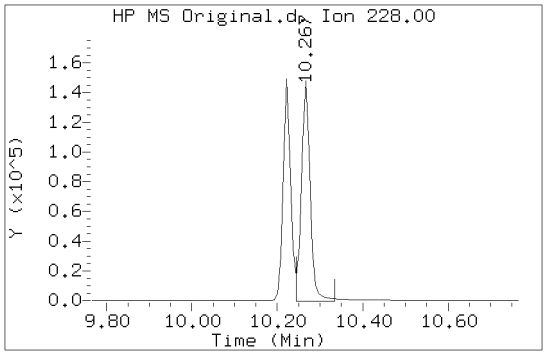


Chrysene (218-01-9)

Reason Code:

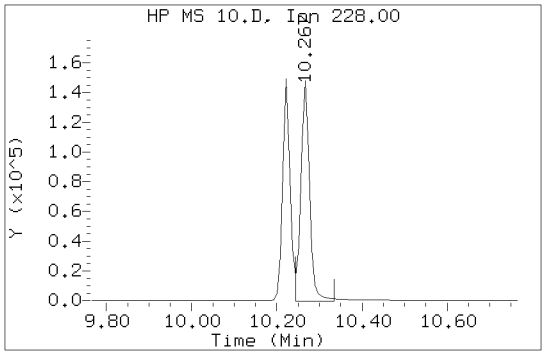
BEFORE

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



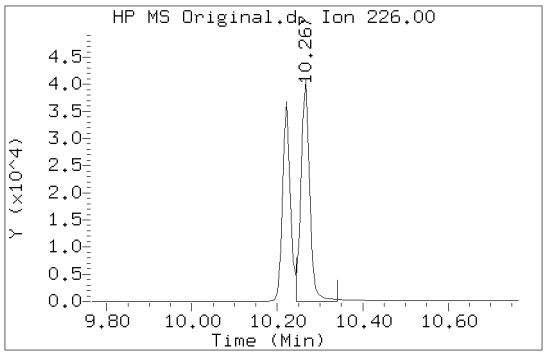
AFTER

MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



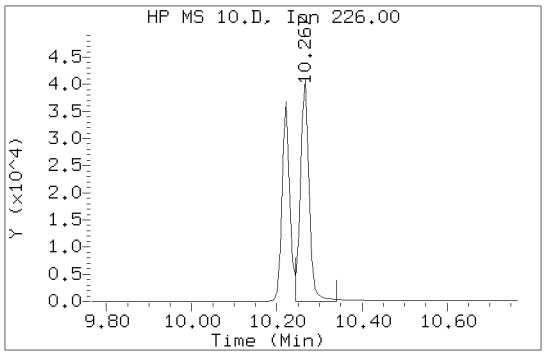
BEFORE

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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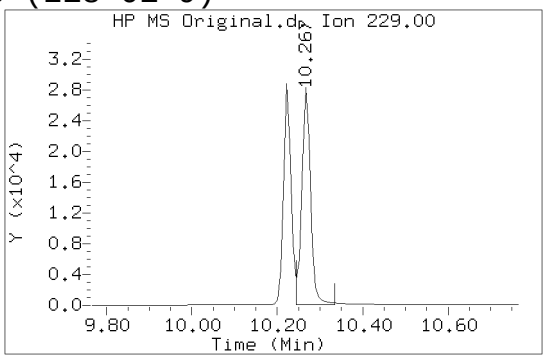
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Chrysene (218-01-9)

Reason Code:

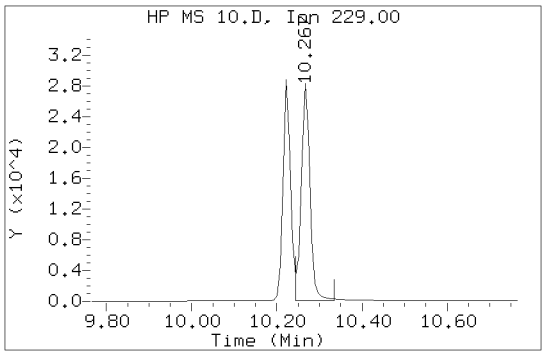
BEFORE

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

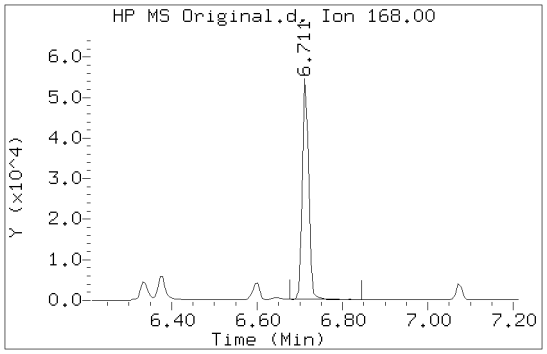


Dibenzofuran (132-64-9)

Reason Code:

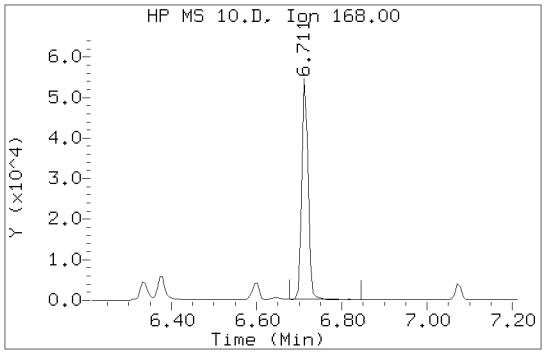
BEFORE

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



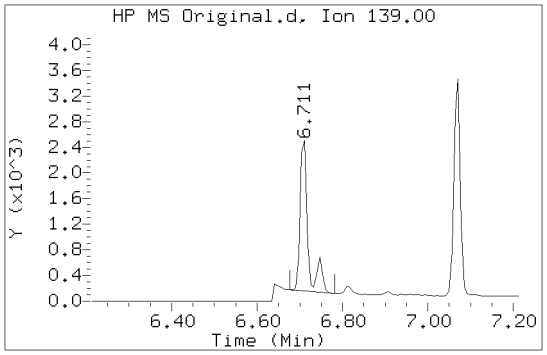
AFTER

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



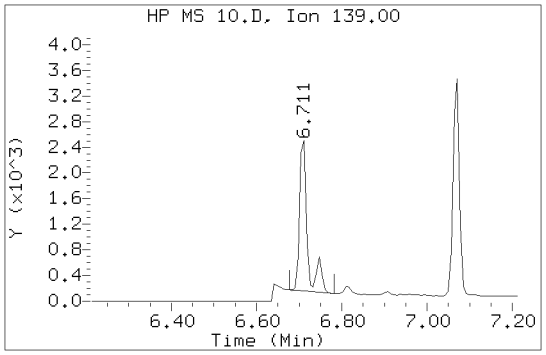
BEFORE

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

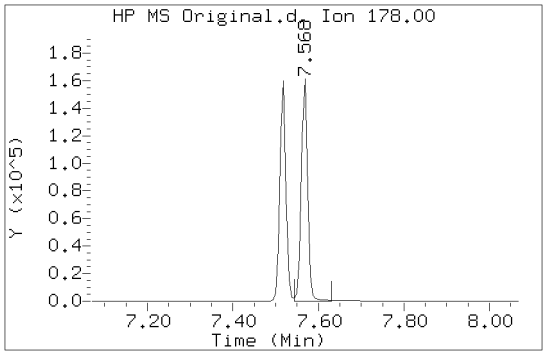


Anthracene (120-12-7)

Reason Code:

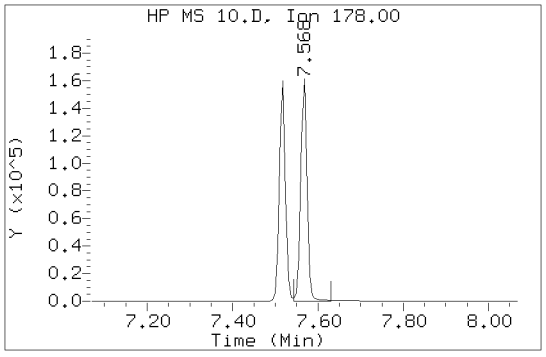
BEFORE

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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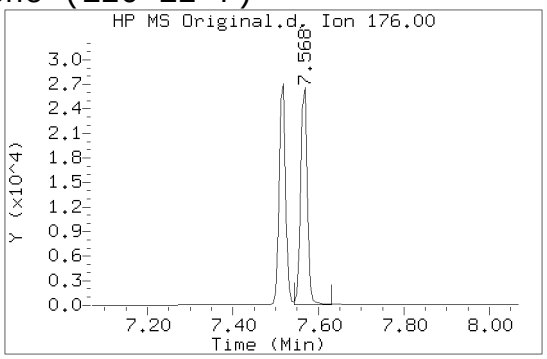
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Anthracene (120-12-7)

Reason Code:

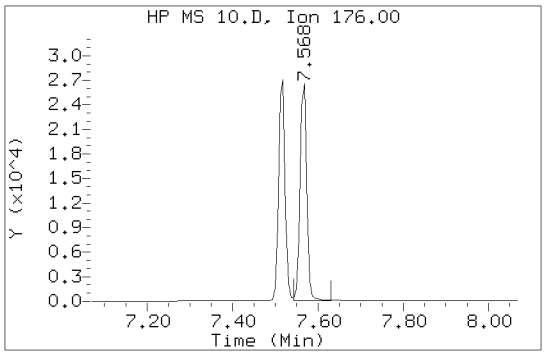
BEFORE

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



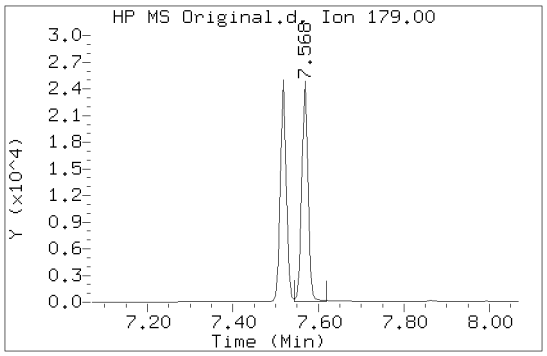
AFTER

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



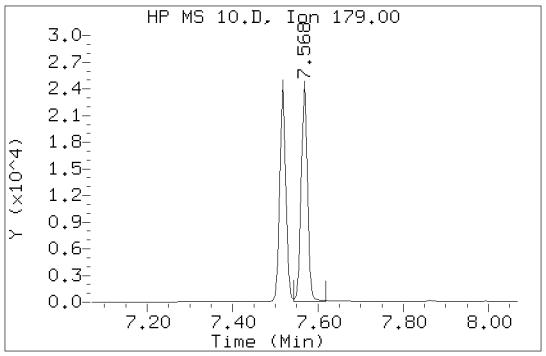
BEFORE

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

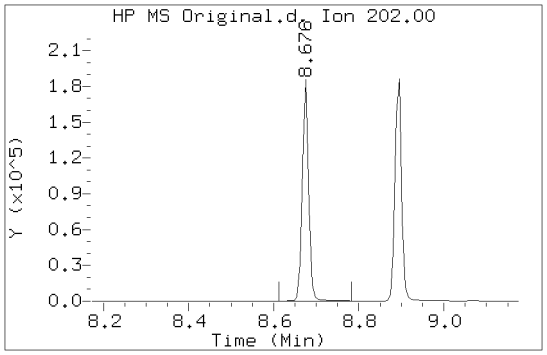


Fluoranthene (206-44-0)

Reason Code:

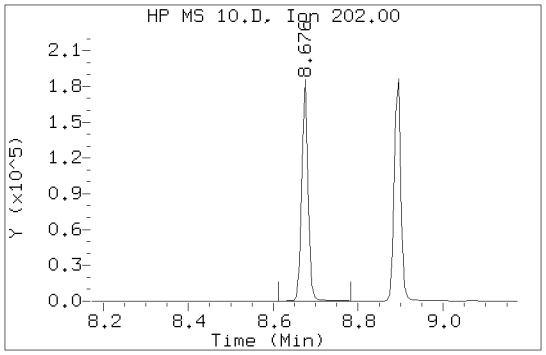
BEFORE

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



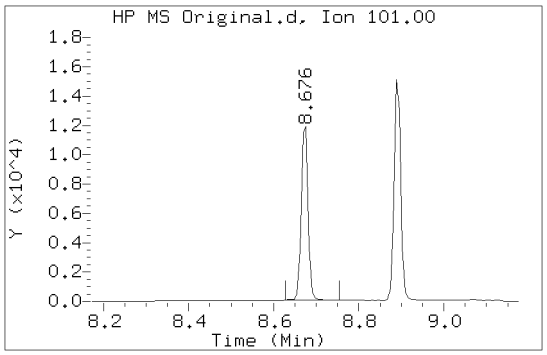
AFTER

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



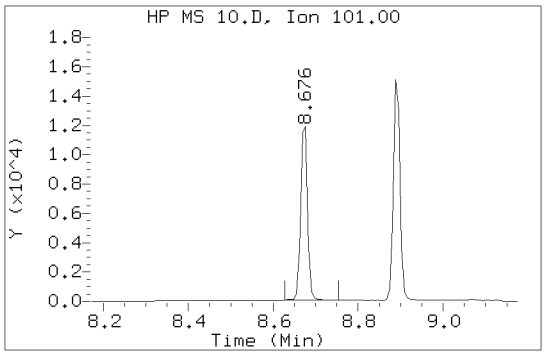
BEFORE

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



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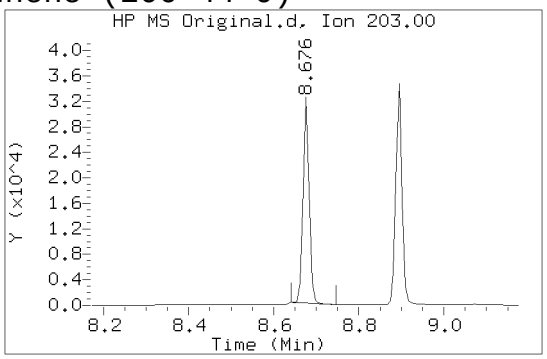
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Fluoranthene (206-44-0)

Reason Code:

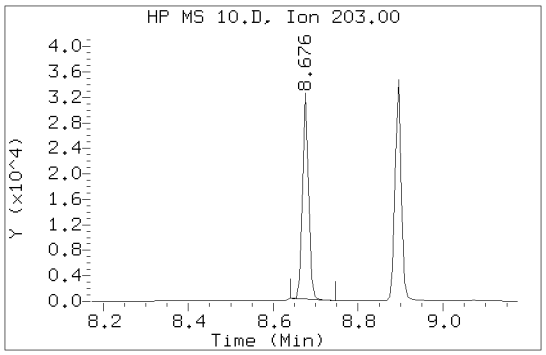
BEFORE

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham

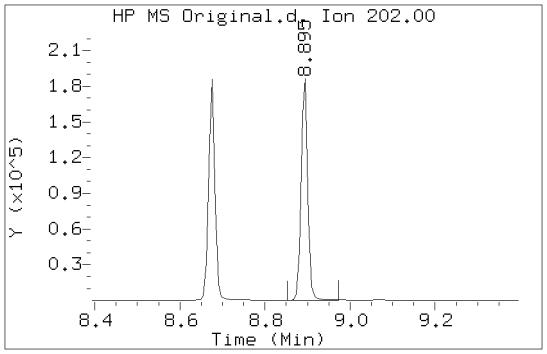


Pyrene (129-00-0)

Reason Code:

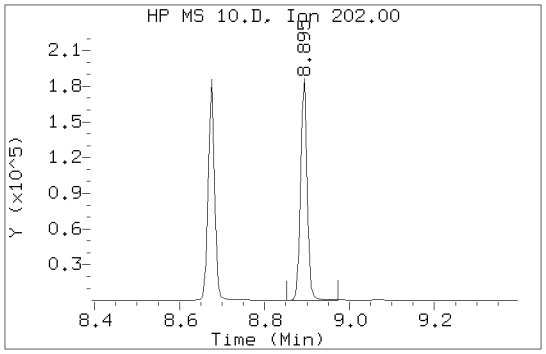
BEFORE

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



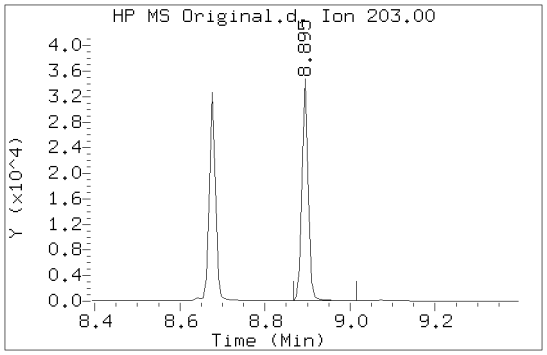
AFTER

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



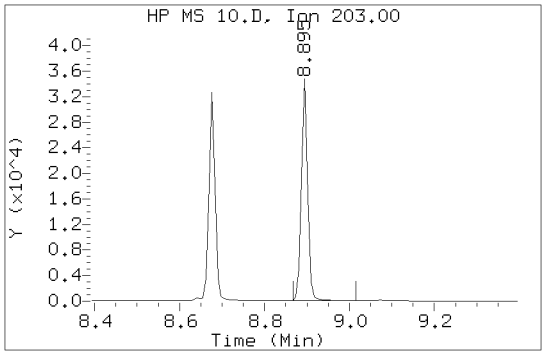
BEFORE

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



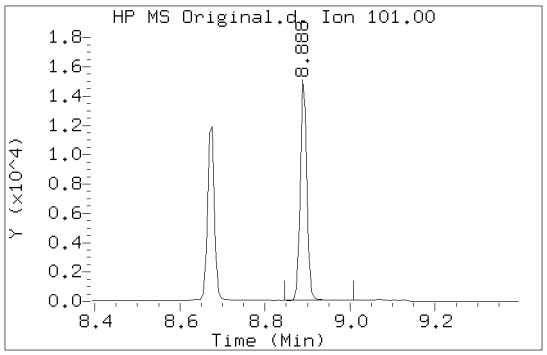
AFTER

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



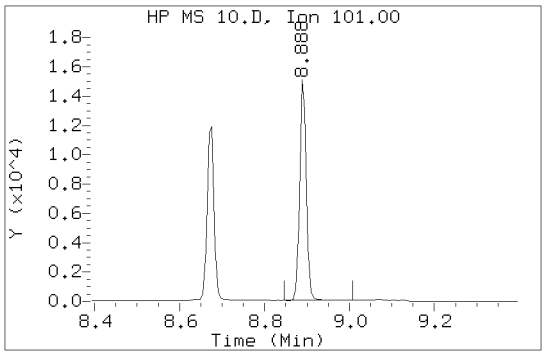
BEFORE

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



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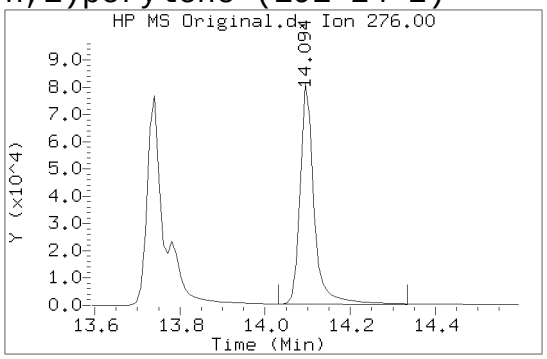
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

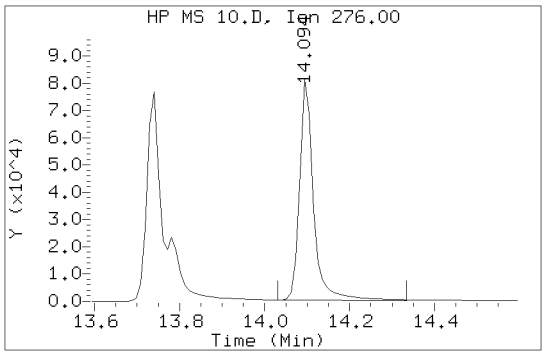
BEFORE

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



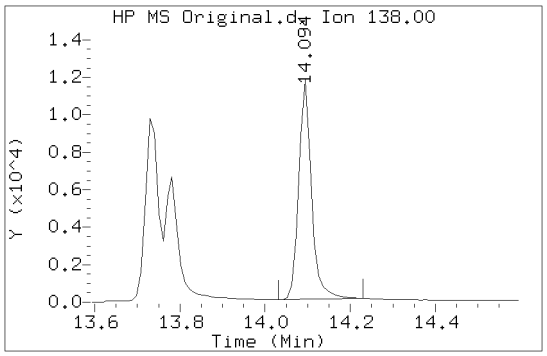
AFTER

MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



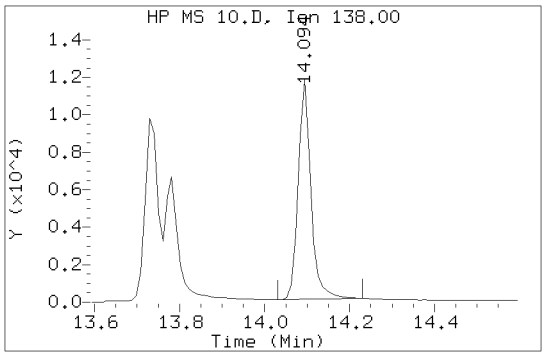
BEFORE

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



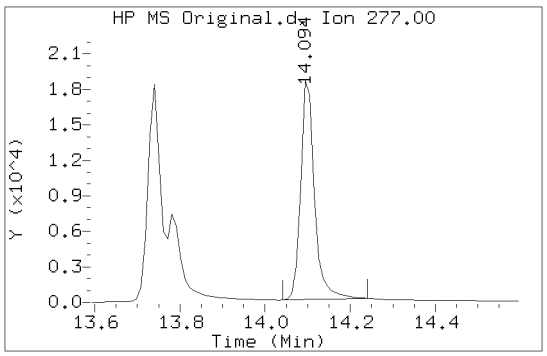
AFTER

MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



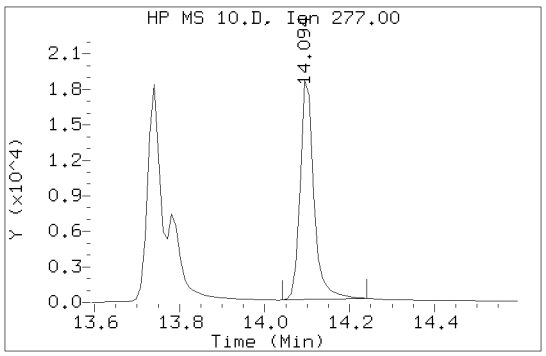
BEFORE

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

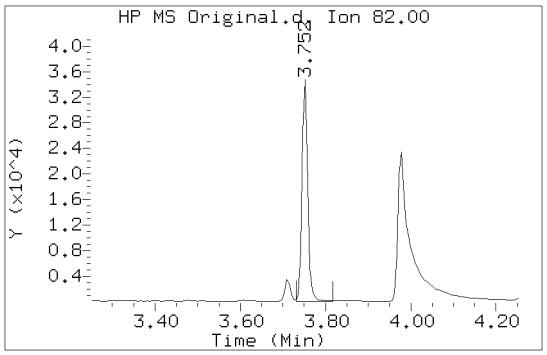


Nitrobenzene-d5 (4165-60-0)

Reason Code:

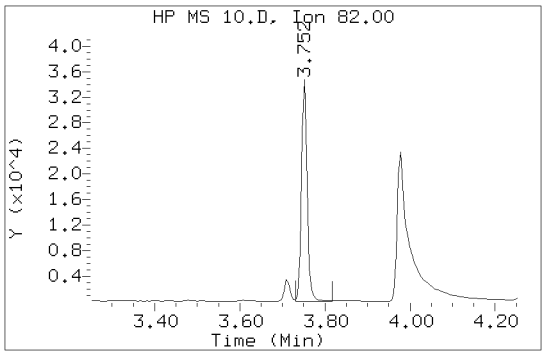
BEFORE

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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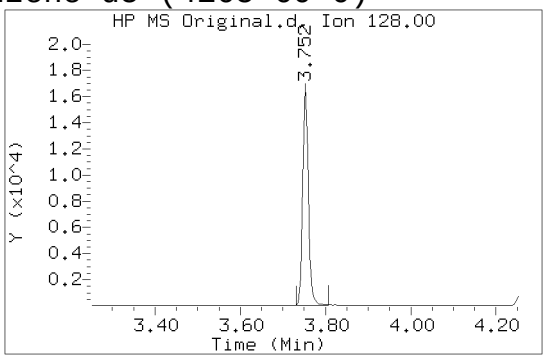
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

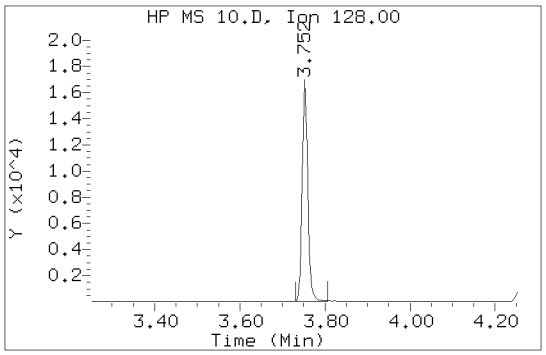
BEFORE

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



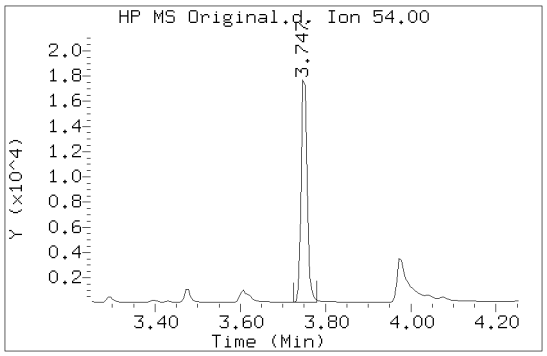
AFTER

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



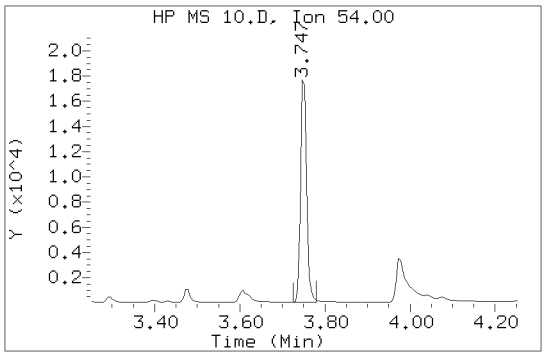
BEFORE

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham

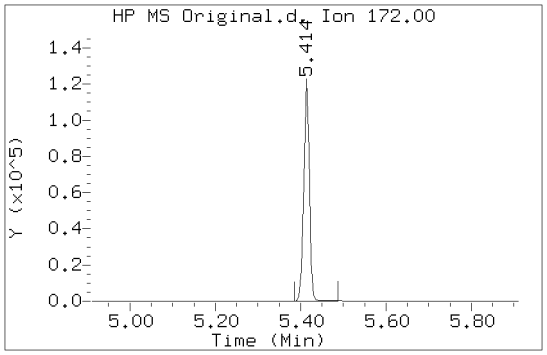


2-Fluorobiphenyl (321-60-8)

Reason Code:

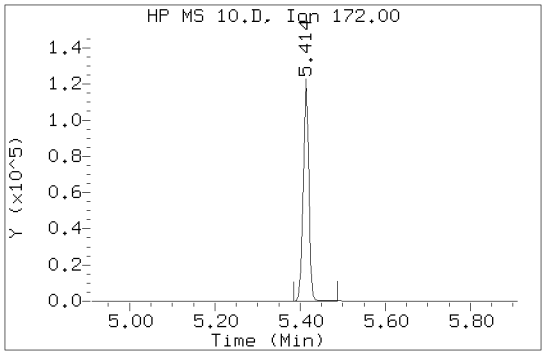
BEFORE

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



AFTER

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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37375
HEIGHT
41160
18-Dec-2023
10:16
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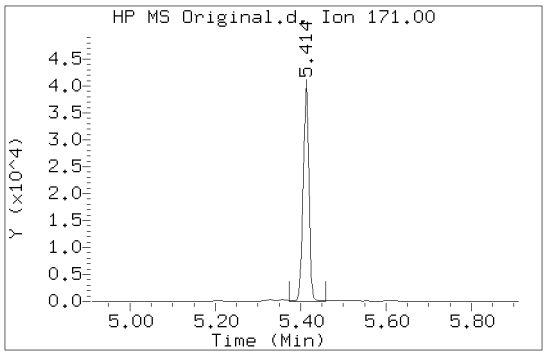
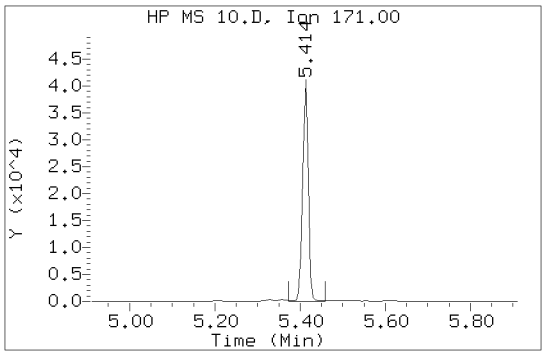


AFTER

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



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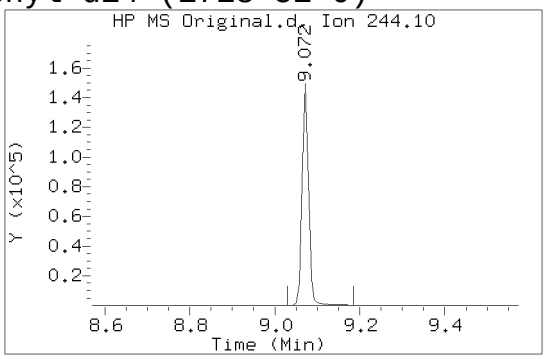
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

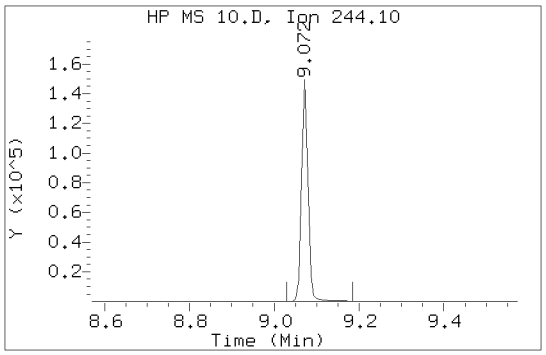
BEFORE

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

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AREA
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HEIGHT
82
18-Dec-2023
10:16
linh
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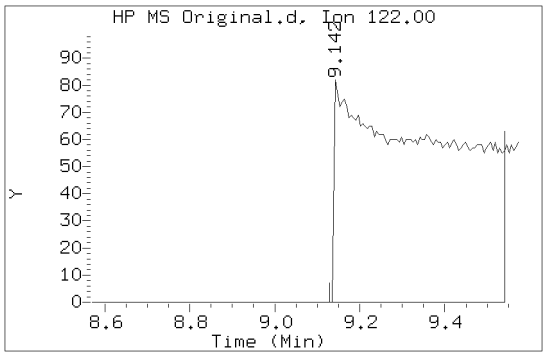

AFTER

MASS
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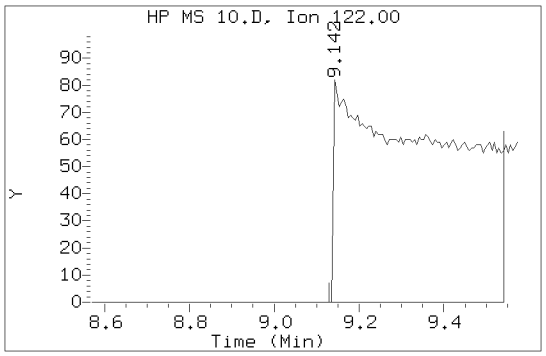
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



BEFORE

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AREA
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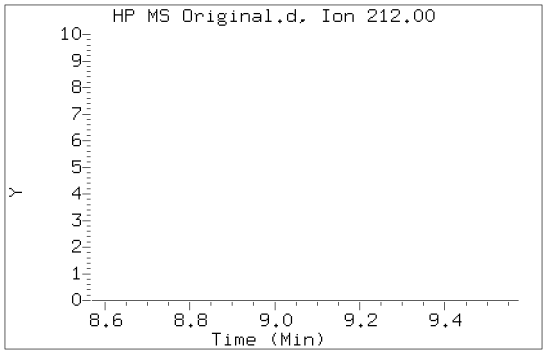
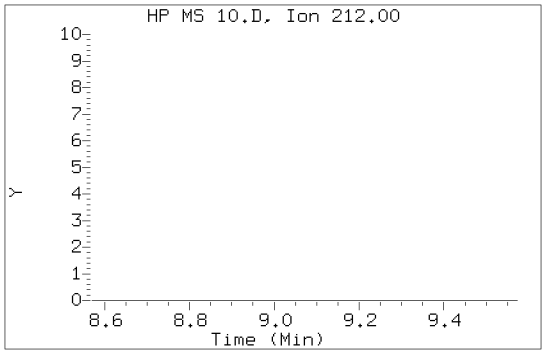
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Lab Smp Id: PAHSIM ICV-0.08 Client Smp ID: PAHSIM ICV-0.08
Inj Date : 12-DEC-2023 16:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	25175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5427	0.07818	0.07818(M)
* 86 Acenaphthene-d10	164	6.056	6.058	(1.000)	15648	0.10000	
$ 69 2-Fluorobiphenyl	172	5.419	5.413	(0.895)	19304	0.07747	0.07747
* 126 Phenanthrene-d10	188	7.498	7.493	(1.000)	32385	0.10000	
* 182 Chrysene-d12	240	10.243	10.237	(1.000)	29147	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.071	(0.908)	21376	0.07222	0.07222
* 198 Perylene-d12	264	12.218	12.220	(1.000)	29848	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	22249	0.08055	0.08055
61 2-Methylnaphthalene	142	5.059	5.053	(1.184)	14713	0.07965	0.07965
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	13635	0.07911	0.07911
83 Acenaphthylene	152	5.915	5.910	(0.977)	22110	0.07727	0.07727
88 Acenaphthene	154	6.086	6.080	(1.005)	14152	0.07845	0.07844
98 Fluorene	166	6.588	6.583	(1.088)	17084	0.07703	0.07703
92 Dibenzofuran	168	6.716	6.711	(1.109)	9112	0.07791	0.07790
128 Phenanthrene	178	7.523	7.518	(1.003)	27676	0.07808	0.07808
130 Anthracene	178	7.572	7.568	(1.010)	27519	0.07791	0.07791(M)
149 Fluoranthene	202	8.674	8.676	(1.157)	32128	0.07620	0.07620
155 Pyrene	202	8.893	8.895	(0.890)	34127	0.08053	0.08053

181 Benzo(a)Anthracene	228	10.228	10.222 (0.999)	31817	0.08050	0.08050(M)
183 Chrysene	228	10.272	10.267 (1.003)	36118	0.08199	0.08199(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
192 Benzo(b)fluoranthene	252	11.675	11.670	(0.956)	29596	0.07988	0.07988
195 Benzo(k)fluoranthene	252	11.712	11.714	(0.959)	34804	0.07763	0.07763
197 Benzo(a)pyrene	252	12.137	12.132	(0.993)	27244	0.07587	0.07587(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.739	(1.124)	30452	0.07086	0.07086
210 Dibenzo(a,h)anthracene	278	13.790	13.791	(1.129)	25333	0.07098	0.07098(M)
212 Benzo(g,h,i)perylene	276	14.102	14.094	(1.154)	27319	0.07118	0.07118(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D

Date : 12-DEC-2023 16:19

Client ID: PAHSIM ICV-0.08

Instrument: SV6.i

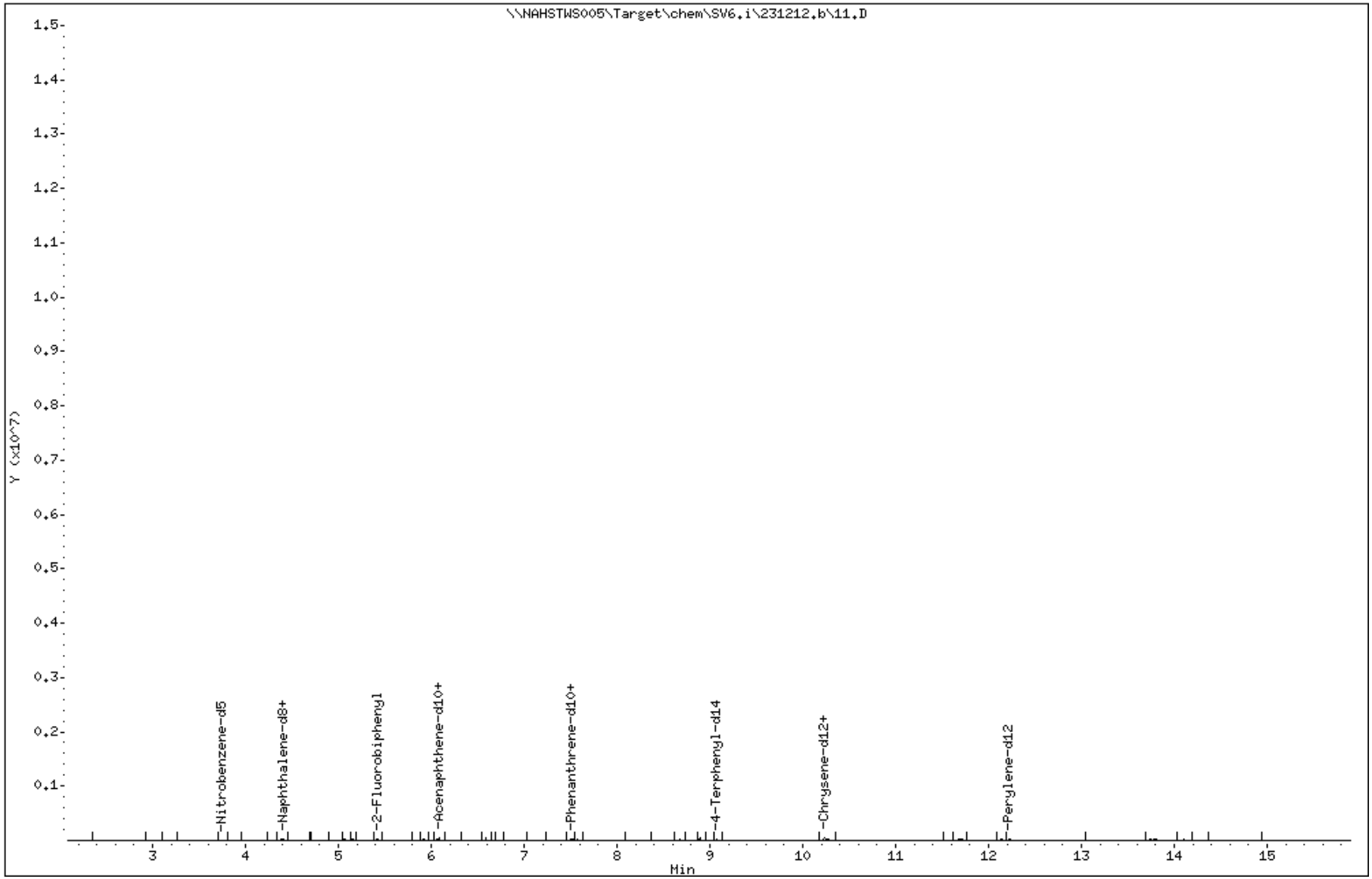
Sample Info: PAHSIM ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



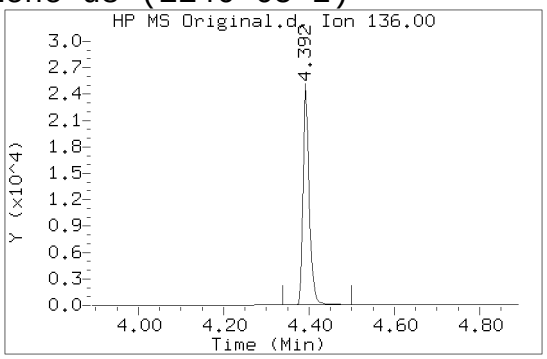
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

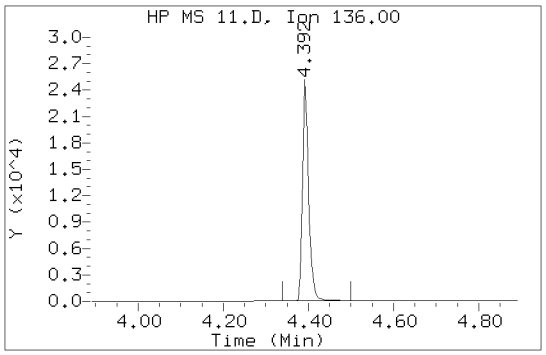
BEFORE

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



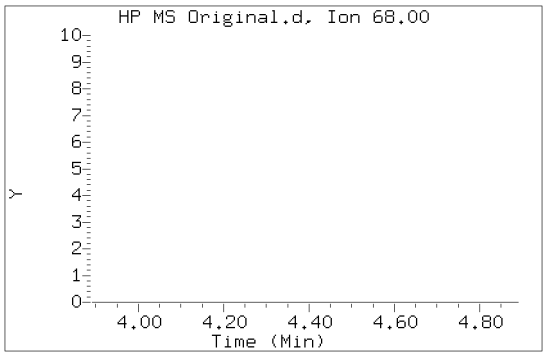
AFTER

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



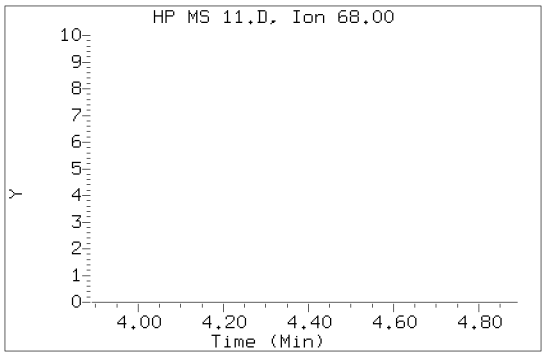
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

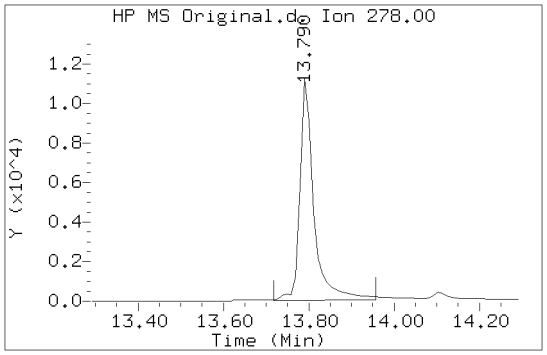


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

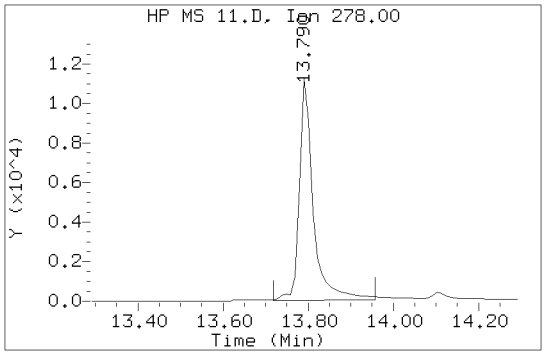
BEFORE

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



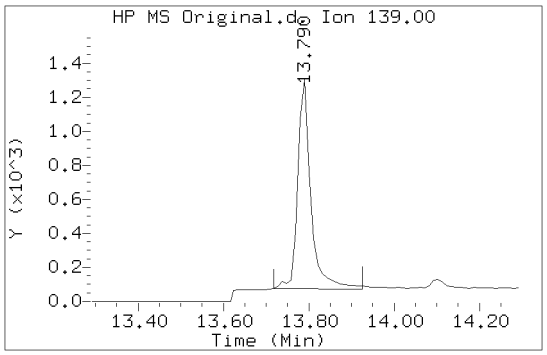
AFTER

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



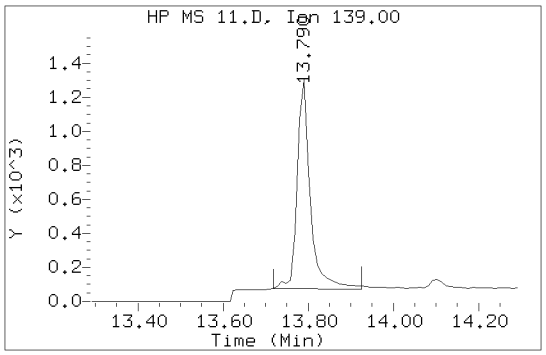
BEFORE

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



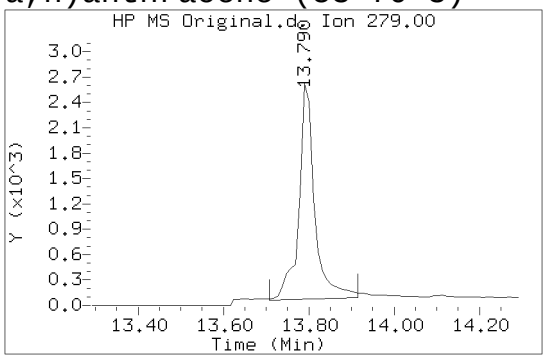
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
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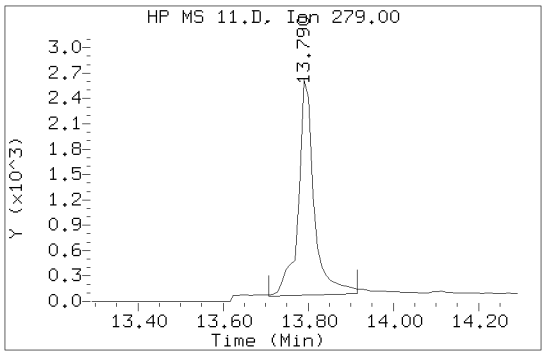
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
252
AREA
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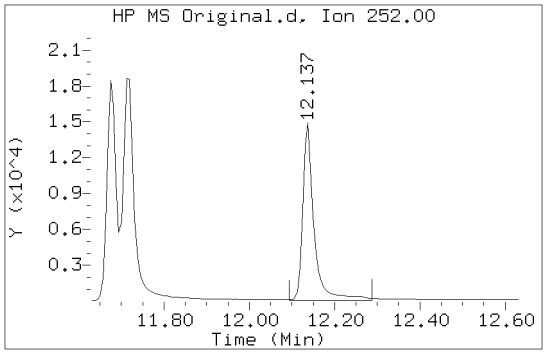
HEIGHT
14841
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
27244
HEIGHT
14841
18-Dec-2023
10:16
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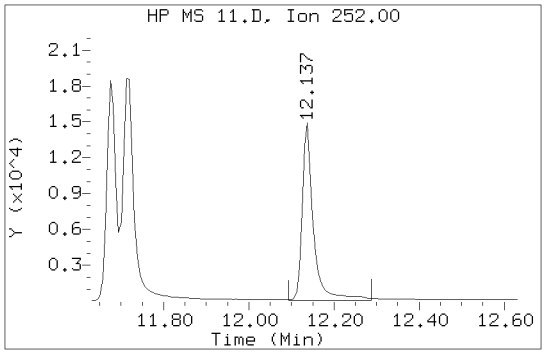
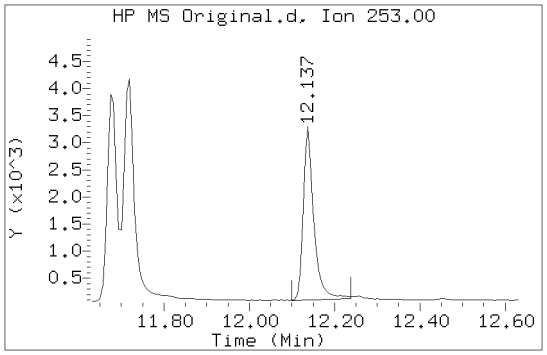
pham



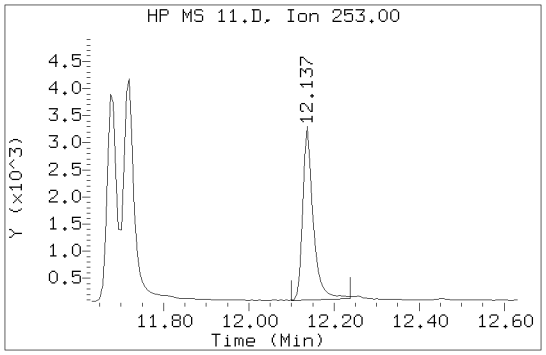
BEFORE

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



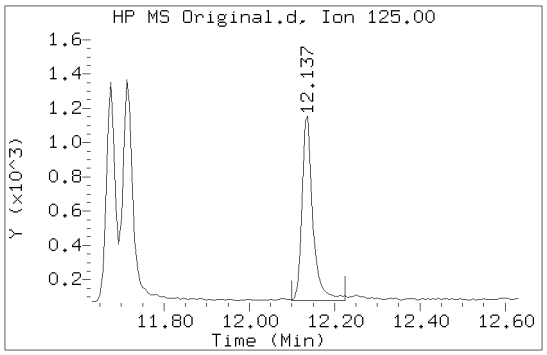
AFTER

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



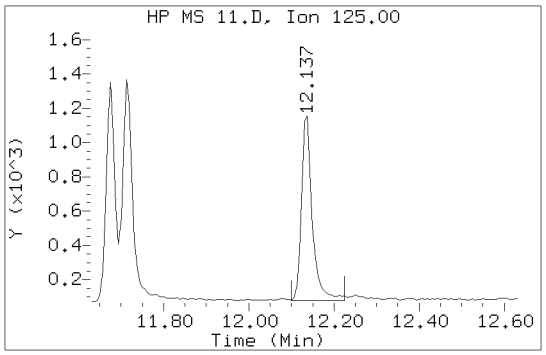
BEFORE

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



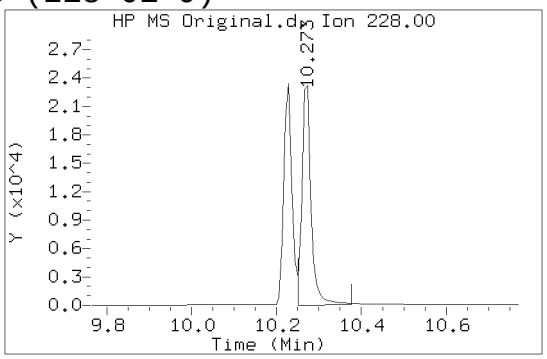
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene (218-01-9)

Reason Code:

BEFORE

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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36118
HEIGHT
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18-Dec-2023
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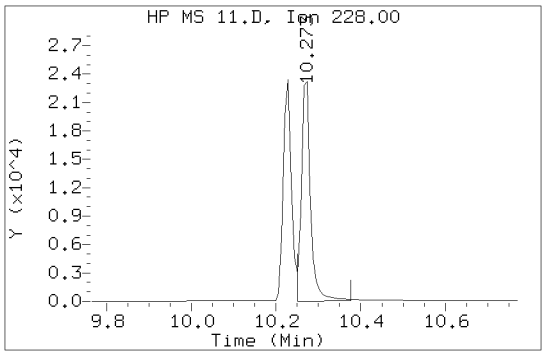

BEFORE

MASS
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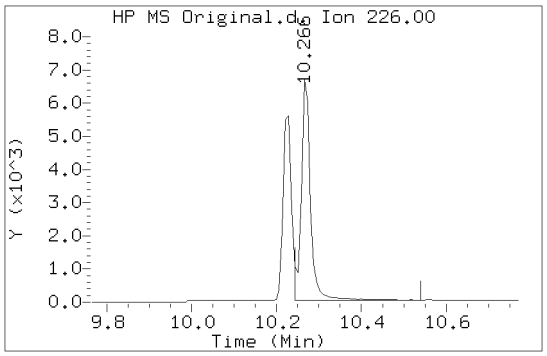
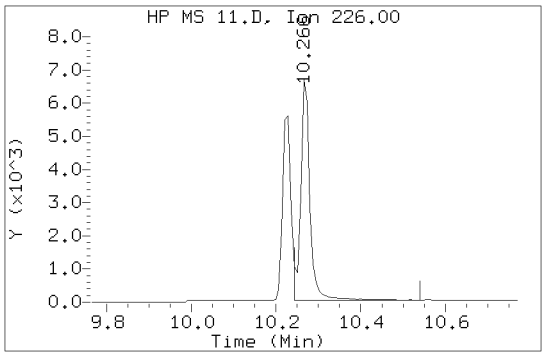
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



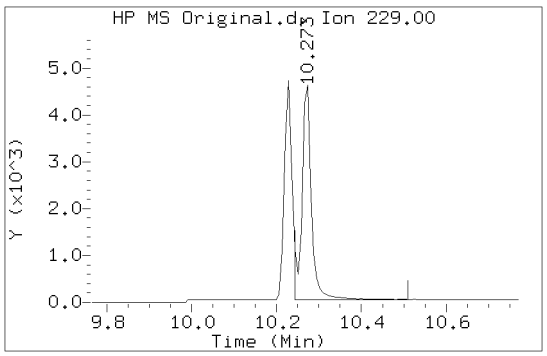
AFTER

MASS
226
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



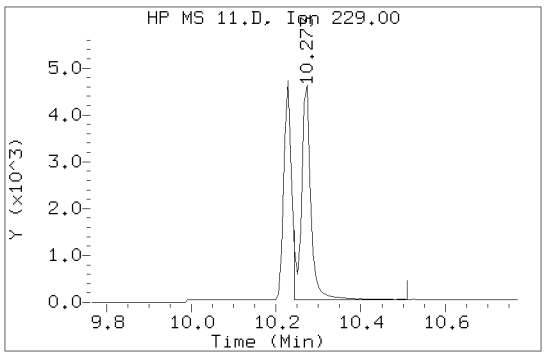
BEFORE

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



Benzo(a)Anthracene (56-55-3)

Reason Code:

BEFORE

MASS
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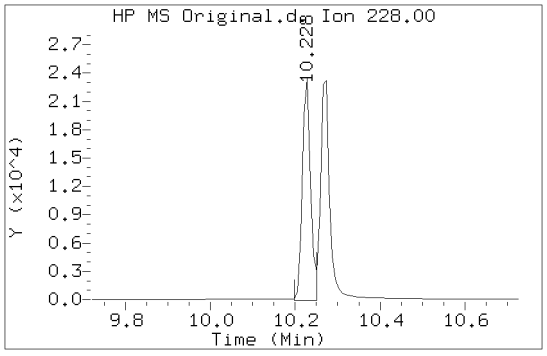
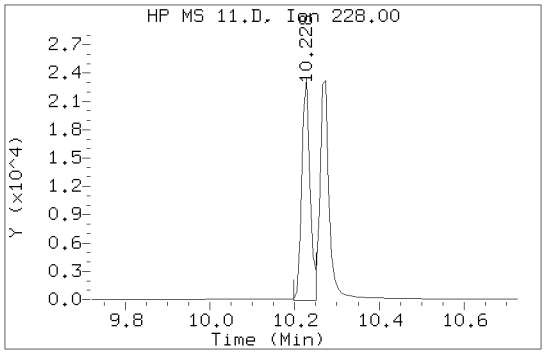
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



AFTER

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



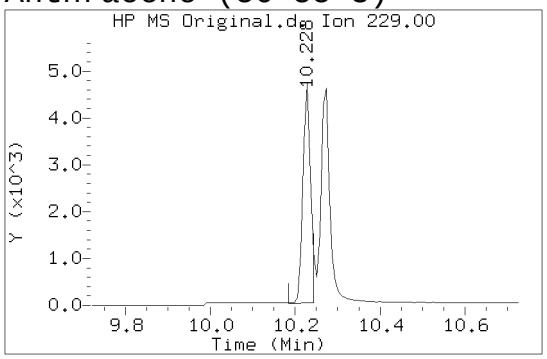
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Benzo(a)Anthracene (56-55-3)

Reason Code:

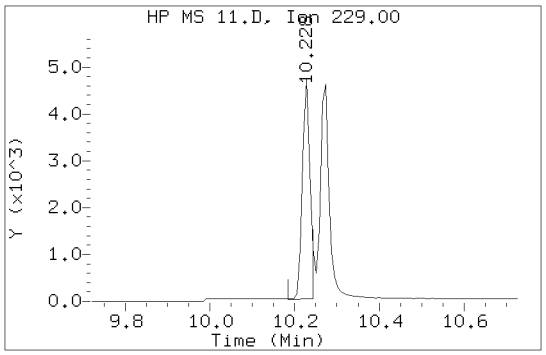
BEFORE

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



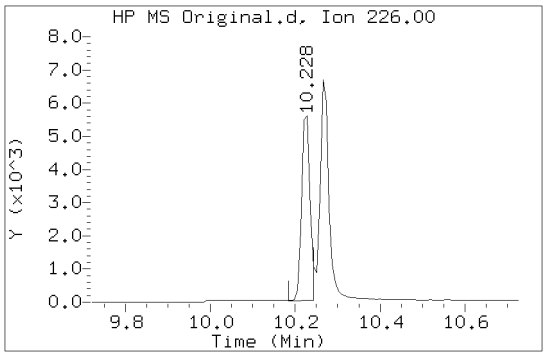
AFTER

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



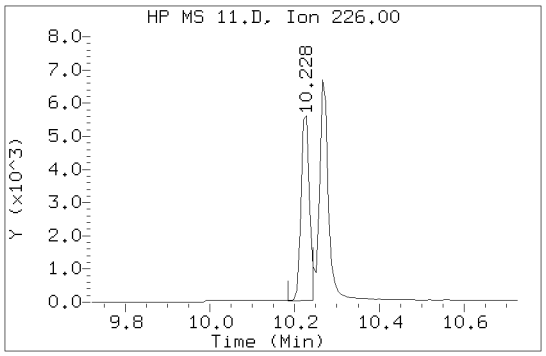
BEFORE

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham

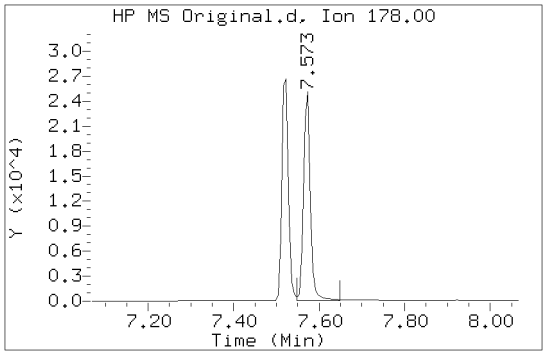


Anthracene (120-12-7)

Reason Code:

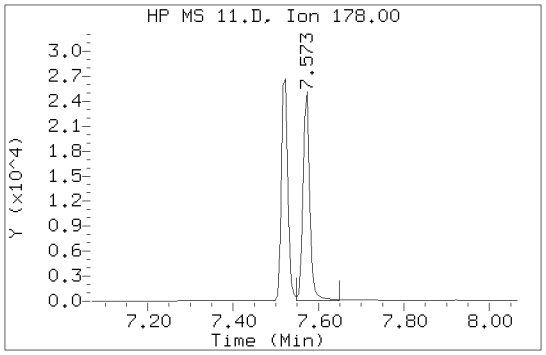
BEFORE

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



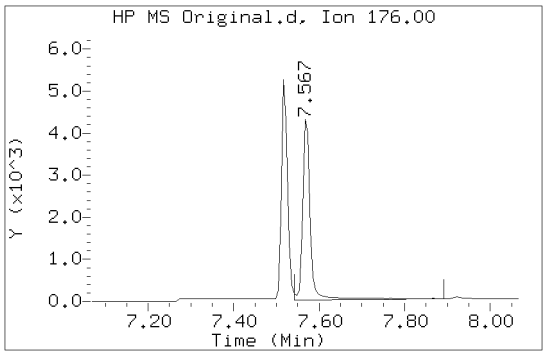
AFTER

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



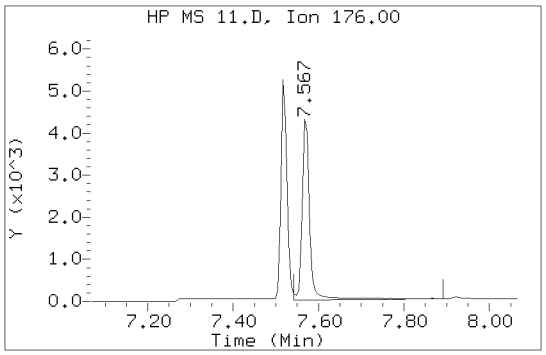
BEFORE

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



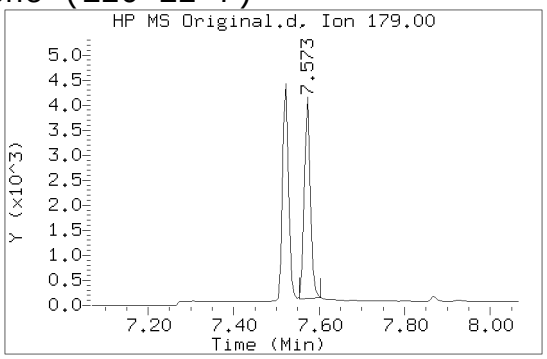
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Anthracene (120-12-7)

Reason Code:

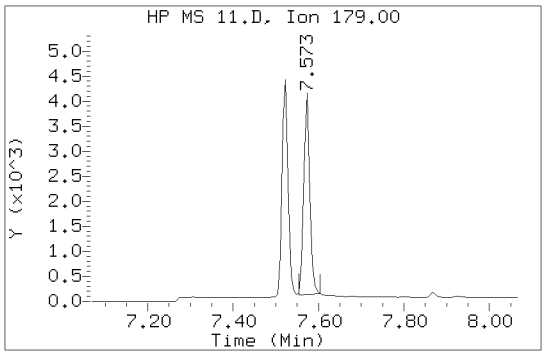
BEFORE

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham

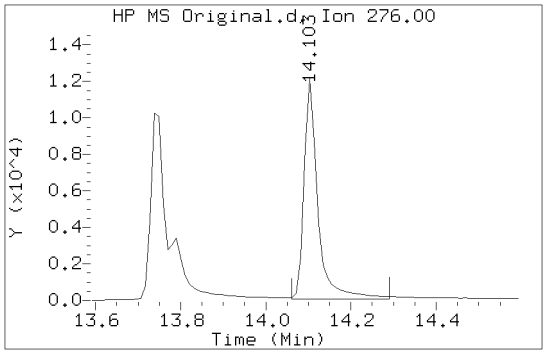


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

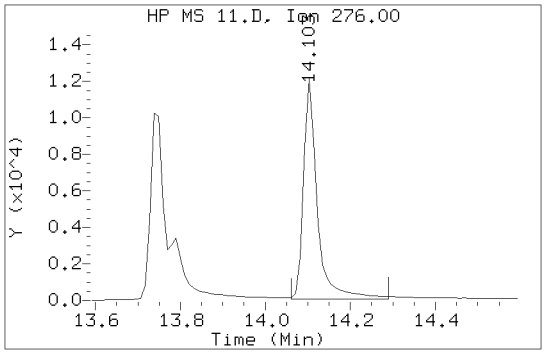
BEFORE

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



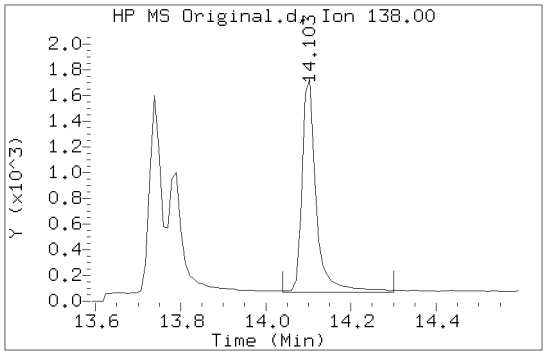
AFTER

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



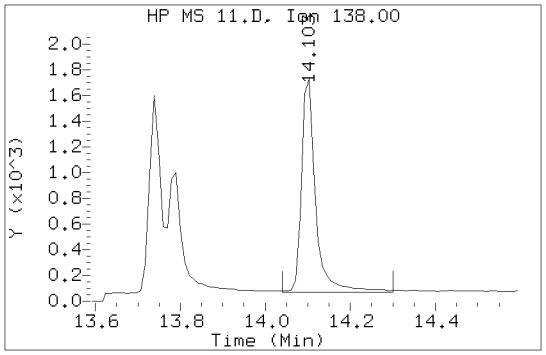
BEFORE

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



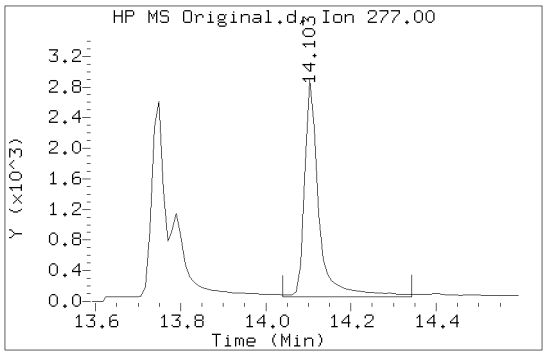
AFTER

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



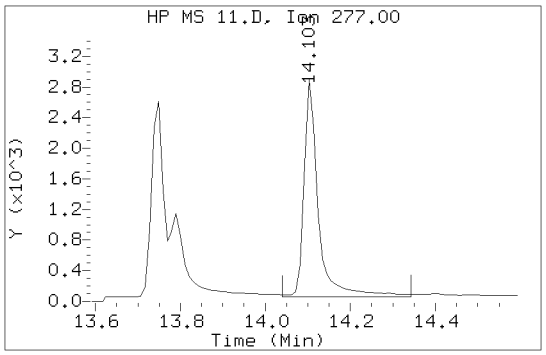
BEFORE

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



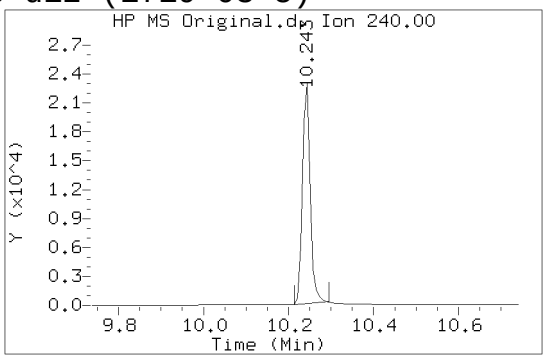
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

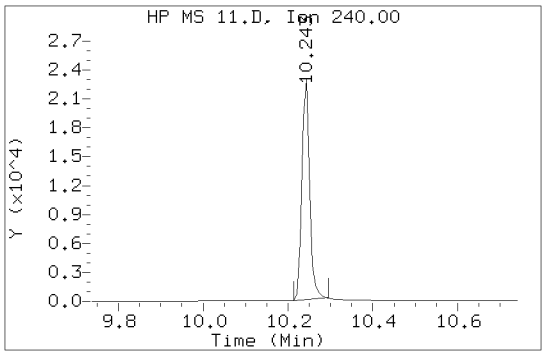
BEFORE

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



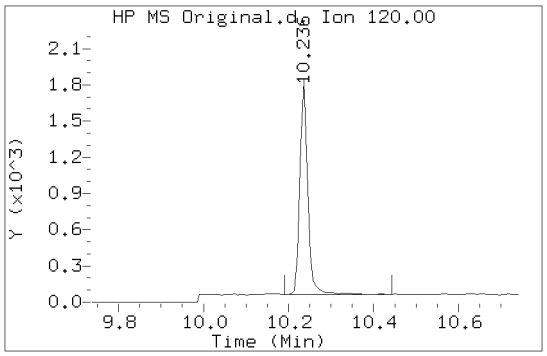
AFTER

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



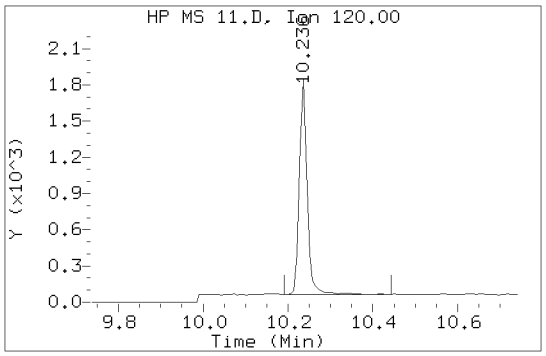
BEFORE

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



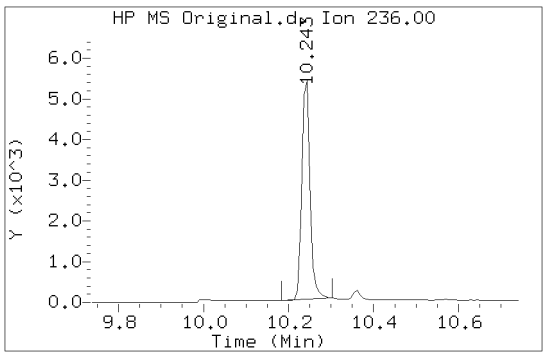
AFTER

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



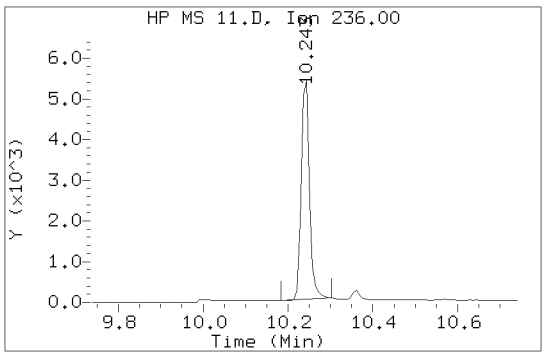
BEFORE

MASS
236
AREA
7241
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
7241
HEIGHT
5367
18-Dec-2023
10:16
linh
pham

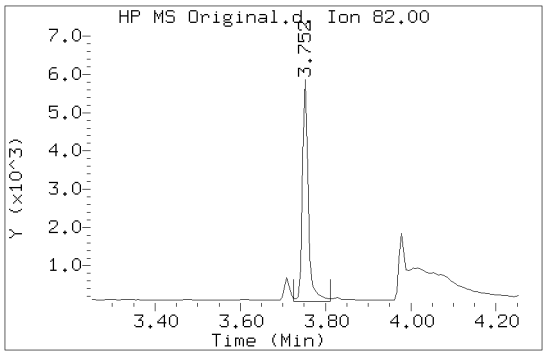


Nitrobenzene-d5 (4165-60-0)

Reason Code:

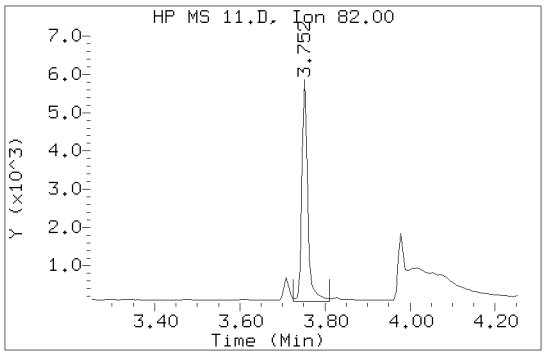
BEFORE

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



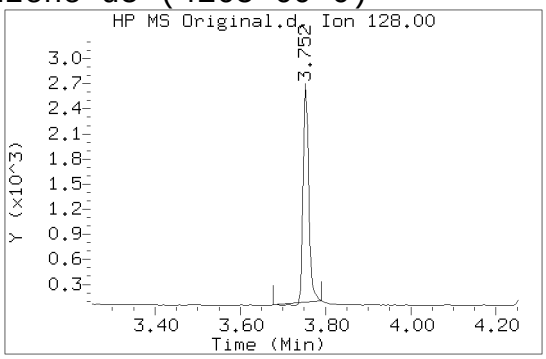
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

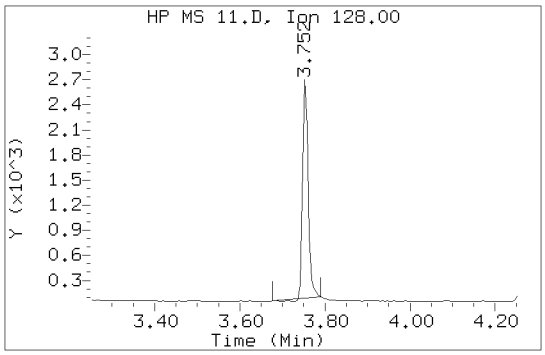
BEFORE

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



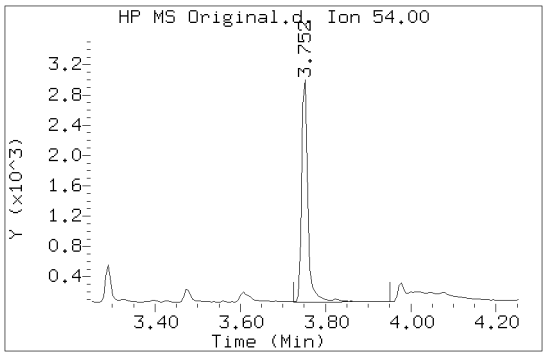
AFTER

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



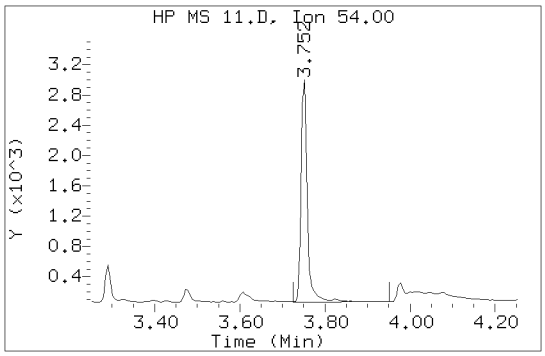
BEFORE

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D Page 1
Report Date: 16-May-2024 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-MAY-2024 12:32
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240516A.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		
5.218	5.571	-0.353	198	287104			0.00- 100.00	53.67(Q)
5.218	6.357	-1.139	51	63792			10.00- 80.00	22.22
5.218	6.357	-1.139	68	1286			0.00- 2.00	1.78
5.218	6.357	-1.139	69	72096			0.00- 0.00	25.11
5.218	6.357	-1.139	70	421			0.00- 2.00	0.58
5.218	6.357	-1.139	127	103784			10.00- 80.00	36.15
5.218	6.357	-1.139	197	0	0.0	0.0	0.00- 2.00	0.00
5.218	6.357	-1.139	199	18864			5.00- 9.00	6.57
5.218	6.357	-1.139	275	93272			10.00- 60.00	32.49
5.218	6.357	-1.139	365	12725			1.00- 100.00	4.43
5.218	6.357	-1.139	441	76816			0.01- 99.99	75.45
5.218	6.357	-1.139	442	534912			50.00- 150.00	186.31
5.218	6.357	-1.139	443	101808			15.00- 24.00	19.03

QC Flag Legend

Q - Qualifier signal failed the ratio test.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	22.22
68	Less than 2.00% of mass 69	0.45 (1.78)
69	Mass 69 relative abundance	25.11
70	Less than 2.00% of mass 69	0.15 (0.58)
127	10.00 - 80.00% of mass 198	36.15
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 60.00% of mass 198	32.49
365	1.00 - 100.00% of mass 198	4.43
441	Present, but less than mass 443	26.76
442	50.00 - 150.00% of mass 198	186.31 *
443	15.00 - 24.00% of mass 442	35.46 (19.03)

Data File: 01.D
Spectrum: Avg. Scans 491-493 (5.22), Background Scan 485
Location of Maximum: 442.00
Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	231	131.00	618	213.00	214	303.00	2900
38.00	700	132.00	554	214.00	62	304.00	876
39.00	4287	133.00	144	215.00	867	308.00	355
40.00	285	134.00	1103	216.00	1576	309.00	199
41.00	153	135.00	3349	217.00	19456	310.00	396
45.00	50	136.00	1243	218.00	2401	312.00	53
49.00	90	137.00	1509	219.00	260	313.00	262
50.00	16928	138.00	346	221.00	16077	314.00	1341
51.00	63792	139.00	230	223.00	4995	315.00	2748
52.00	3199	140.00	489	224.00	43576	316.00	1609
53.00	139	141.00	5027	225.00	10751	317.00	246
55.00	320	142.00	1881	226.00	1100	320.00	51
56.00	2234	143.00	1284	227.00	17520	321.00	811
57.00	4824	144.00	327	228.00	2579	322.00	353
58.00	215	145.00	372	229.00	3564	323.00	8991
59.00	50	146.00	1104	230.00	451	324.00	1645
61.00	879	147.00	2878	231.00	1421	325.00	155
62.00	927	148.00	5306	232.00	256	326.00	202
63.00	2822	149.00	1132	233.00	359	327.00	1622
64.00	423	150.00	336	234.00	1115	328.00	889
65.00	1392	151.00	947	235.00	1253	329.00	68
67.00	130	152.00	414	236.00	912	332.00	692
68.00	1286	153.00	1765	237.00	1364	333.00	936
69.00	72096	154.00	1295	238.00	243	334.00	5835
70.00	421	155.00	3292	239.00	619	335.00	1496
71.00	50	156.00	4408	240.00	652	336.00	199
73.00	1104	157.00	904	241.00	895	339.00	139
74.00	7263	158.00	999	242.00	2428	340.00	117
75.00	11655	159.00	866	243.00	2728	341.00	1093
76.00	4002	160.00	1791	244.00	36920	342.00	411
77.00	77808	161.00	2754	245.00	4658	346.00	1874
78.00	5168	162.00	715	246.00	6588	347.00	300
79.00	5298	163.00	248	247.00	1411	351.00	193
80.00	4168	164.00	354	248.00	285	352.00	2706
81.00	6123	165.00	2143	249.00	1451	353.00	2053
82.00	1528	166.00	1683	250.00	308	354.00	2911
83.00	1343	167.00	11367	251.00	373	355.00	744
84.00	191	168.00	4438	252.00	362	359.00	190
85.00	1049	169.00	823	253.00	1070	365.00	12725
86.00	1703	170.00	415	255.00	192896	366.00	1722
87.00	718	171.00	500	256.00	27488	367.00	62
88.00	228	172.00	1147	257.00	2125	370.00	334
89.00	146	173.00	1324	258.00	9937	371.00	936
91.00	1410	174.00	2576	259.00	1735	372.00	5619
92.00	1444	175.00	4900	260.00	252	373.00	1495

93.00 9503	176.00 1423	261.00 313	374.00 154
94.00 596	177.00 2249	263.00 132	377.00 84
95.00 146	178.00 824	264.00 241	383.00 1600
96.00 429	179.00 9218	265.00 3903	384.00 430
98.00 7200	180.00 6604	266.00 584	385.00 112
99.00 5874	181.00 2761	267.00 79	390.00 731
100.00 448	182.00 396	268.00 256	391.00 616
101.00 3339	183.00 347	270.00 318	392.00 434
102.00 184	184.00 860	271.00 414	397.00 56
103.00 1119	185.00 4459	272.00 268	401.00 382
104.00 2422	186.00 35240	273.00 5947	402.00 2345
105.00 2098	187.00 9699	274.00 16005	403.00 3198
106.00 749	188.00 1015	275.00 93272	404.00 1167
107.00 27784	189.00 2239	276.00 12029	405.00 129
108.00 4154	190.00 339	277.00 6921	410.00 57
109.00 946	191.00 1077	278.00 1030	415.00 205
110.00 50288	192.00 3054	279.00 186	421.00 3431
111.00 7694	193.00 3468	281.00 340	422.00 3062
112.00 890	194.00 720	282.00 214	423.00 24456
113.00 318	195.00 645	283.00 787	424.00 4739
114.00 51	196.00 8796	284.00 456	425.00 478
115.00 91	198.00 287104	285.00 1220	429.00 63
116.00 1525	199.00 18864	286.00 228	430.00 54
117.00 20816	200.00 1634	288.00 63	434.00 126
118.00 1419	201.00 1181	289.00 222	435.00 149
119.00 169	202.00 97	290.00 203	436.00 455
120.00 302	203.00 2071	291.00 151	437.00 668
121.00 120	204.00 10032	292.00 399	438.00 795
122.00 1800	205.00 16600	293.00 1640	439.00 1492
123.00 2991	206.00 72656	294.00 399	441.00 76816
124.00 1406	207.00 9281	295.00 398	442.00 534912
125.00 1317	208.00 2480	296.00 22928	443.00 101808
127.00 103784	209.00 887	297.00 3196	444.00 9654
128.00 7479	210.00 1203	298.00 167	445.00 582
129.00 41400	211.00 2955	301.00 344	
130.00 2925	212.00 81	302.00 481	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D Page 1

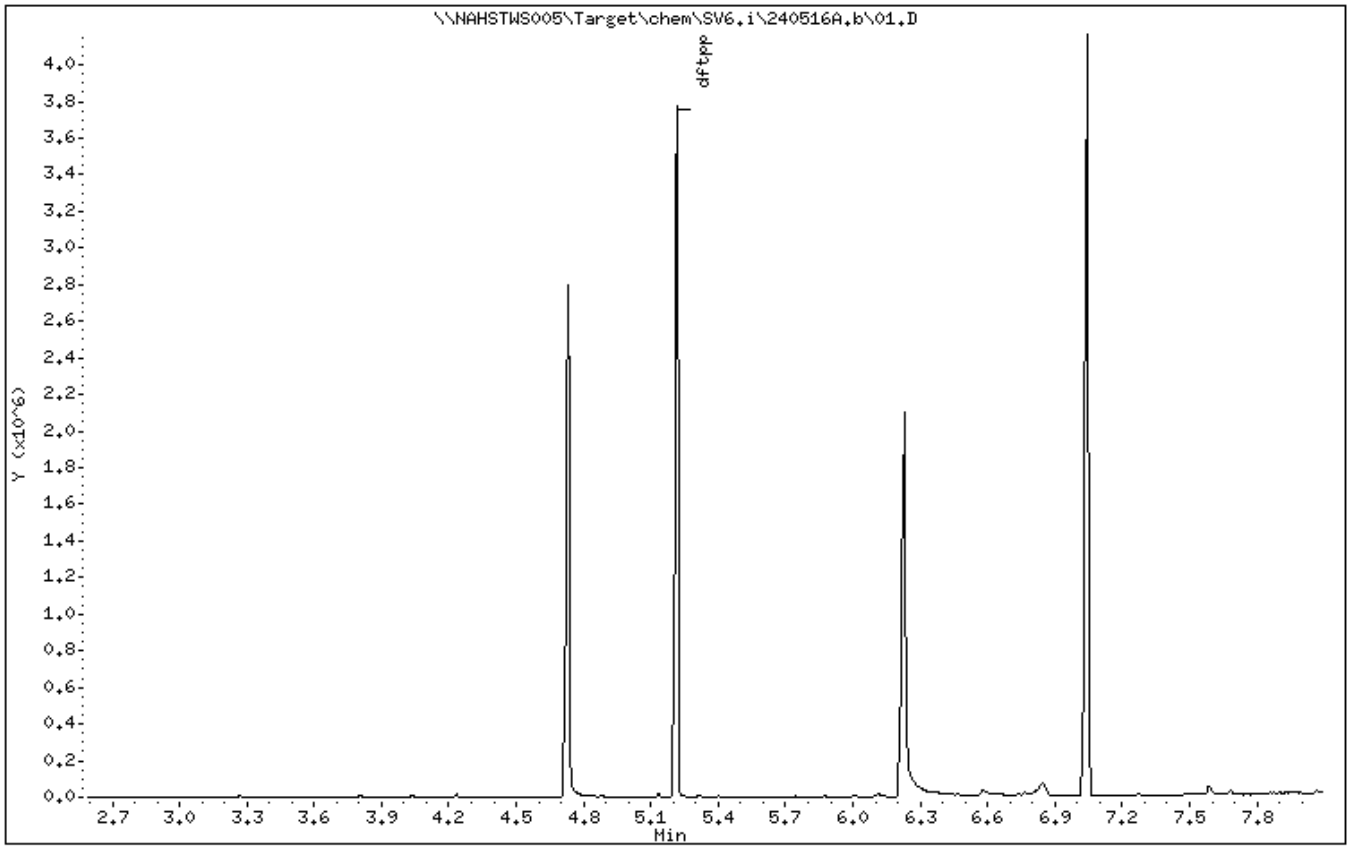
Date : 16-MAY-2024 12:32

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\240516A.b\01.D

Date : 16-MAY-2024 12:32

Client ID: DFTPP

Instrument: SV6.i

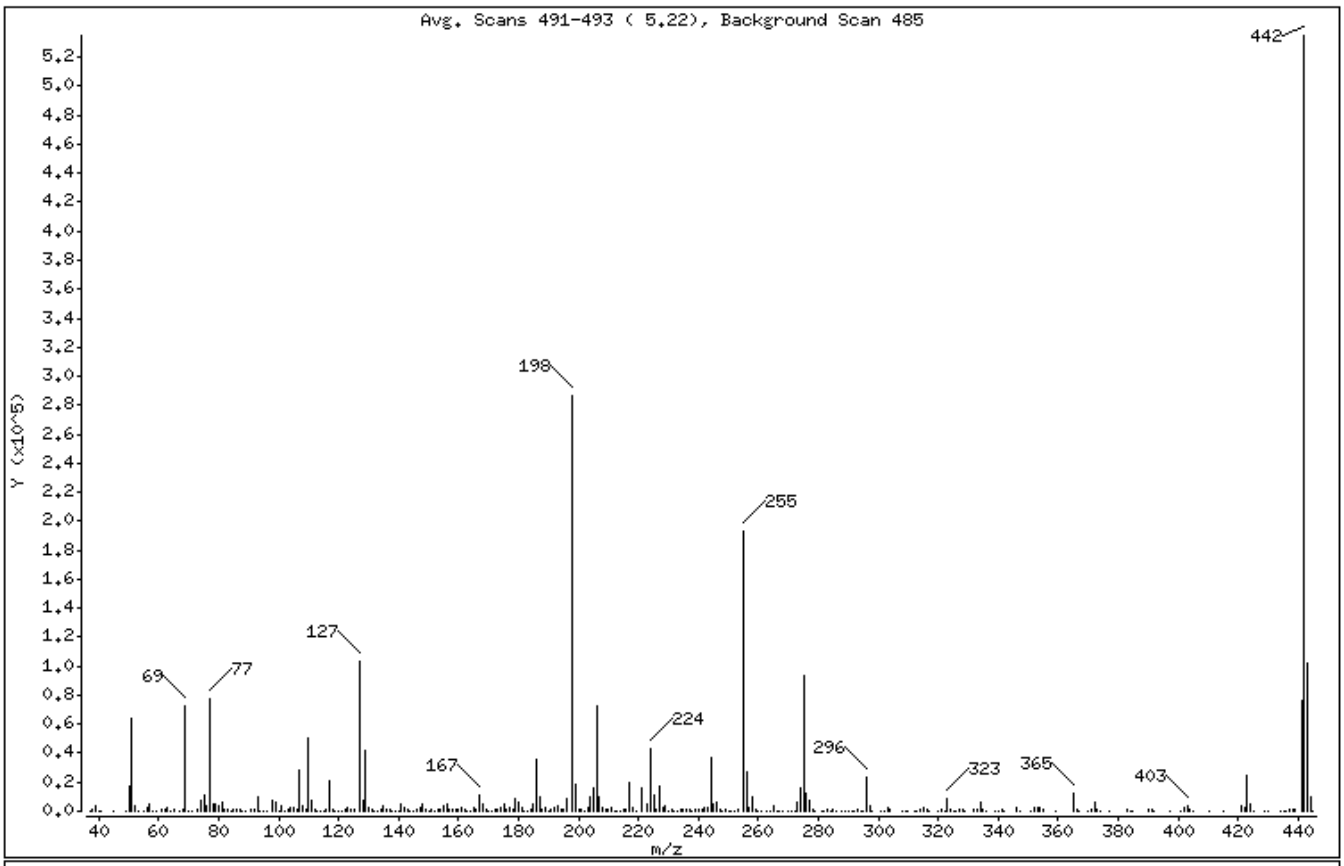
Sample Info: DFTPP;DFTPP;3;;DFTPP

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	22.22
68	Less than 2.00% of mass 69	0.45 (1.78)
69	Mass 69 relative abundance	25.11
70	Less than 2.00% of mass 69	0.15 (0.58)
127	10.00 - 80.00% of mass 198	36.15
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 60.00% of mass 198	32.49
365	1.00 - 100.00% of mass 198	4.43
441	Present, but less than mass 443	26.76
442	50.00 - 150.00% of mass 198	186.31 *
443	15.00 - 24.00% of mass 442	35.46 (19.03)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D

Date : 16-MAY-2024 12:32

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: Avg. Scans 491-493 (5.22), Background Scan 485
Location of Maximum: 442.00
Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	231	131.00	618	213.00	214	303.00	2900
38.00	700	132.00	554	214.00	62	304.00	876
39.00	4287	133.00	144	215.00	867	308.00	355
40.00	285	134.00	1103	216.00	1576	309.00	199
41.00	153	135.00	3349	217.00	19456	310.00	396
45.00	50	136.00	1243	218.00	2401	312.00	53
49.00	90	137.00	1509	219.00	260	313.00	262
50.00	16928	138.00	346	221.00	16077	314.00	1341
51.00	63792	139.00	230	223.00	4995	315.00	2748
52.00	3199	140.00	489	224.00	43576	316.00	1609
53.00	139	141.00	5027	225.00	10751	317.00	246
55.00	320	142.00	1881	226.00	1100	320.00	51
56.00	2234	143.00	1284	227.00	17520	321.00	811
57.00	4824	144.00	327	228.00	2579	322.00	353
58.00	215	145.00	372	229.00	3564	323.00	8991
59.00	50	146.00	1104	230.00	451	324.00	1645
61.00	879	147.00	2878	231.00	1421	325.00	155
62.00	927	148.00	5306	232.00	256	326.00	202
63.00	2822	149.00	1132	233.00	359	327.00	1622
64.00	423	150.00	336	234.00	1115	328.00	889
65.00	1392	151.00	947	235.00	1253	329.00	68
67.00	130	152.00	414	236.00	912	332.00	692
68.00	1286	153.00	1765	237.00	1364	333.00	936
69.00	72096	154.00	1295	238.00	243	334.00	5835
70.00	421	155.00	3292	239.00	619	335.00	1496
71.00	50	156.00	4408	240.00	652	336.00	199
73.00	1104	157.00	904	241.00	895	339.00	139
74.00	7263	158.00	999	242.00	2428	340.00	117
75.00	11655	159.00	866	243.00	2728	341.00	1093
76.00	4002	160.00	1791	244.00	36920	342.00	411
77.00	77808	161.00	2754	245.00	4658	346.00	1874
78.00	5168	162.00	715	246.00	6588	347.00	300
79.00	5298	163.00	248	247.00	1411	351.00	193
80.00	4168	164.00	354	248.00	285	352.00	2706
81.00	6123	165.00	2143	249.00	1451	353.00	2053

Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D Page 4

Date : 16-MAY-2024 12:32

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: Avg. Scans 491-493 (5.22), Background Scan 485
Location of Maximum: 442.00
Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1528	166.00	1683	250.00	308	354.00	2911
83.00	1343	167.00	11367	251.00	373	355.00	744
84.00	191	168.00	4438	252.00	362	359.00	190
85.00	1049	169.00	823	253.00	1070	365.00	12725
86.00	1703	170.00	415	255.00	192896	366.00	1722
87.00	718	171.00	500	256.00	27488	367.00	62
88.00	228	172.00	1147	257.00	2125	370.00	334
89.00	146	173.00	1324	258.00	9937	371.00	936
91.00	1410	174.00	2576	259.00	1735	372.00	5619
92.00	1444	175.00	4900	260.00	252	373.00	1495
93.00	9503	176.00	1423	261.00	313	374.00	154
94.00	596	177.00	2249	263.00	132	377.00	84
95.00	146	178.00	824	264.00	241	383.00	1600
96.00	429	179.00	9218	265.00	3903	384.00	430
98.00	7200	180.00	6604	266.00	584	385.00	112
99.00	5874	181.00	2761	267.00	79	390.00	731
100.00	448	182.00	396	268.00	256	391.00	616
101.00	3339	183.00	347	270.00	318	392.00	434
102.00	184	184.00	860	271.00	414	397.00	56
103.00	1119	185.00	4459	272.00	268	401.00	382
104.00	2422	186.00	35240	273.00	5947	402.00	2345
105.00	2098	187.00	9699	274.00	16005	403.00	3198
106.00	749	188.00	1015	275.00	93272	404.00	1167
107.00	27784	189.00	2239	276.00	12029	405.00	129
108.00	4154	190.00	339	277.00	6921	410.00	57
109.00	946	191.00	1077	278.00	1030	415.00	205
110.00	50288	192.00	3054	279.00	186	421.00	3431
111.00	7694	193.00	3468	281.00	340	422.00	3062
112.00	890	194.00	720	282.00	214	423.00	24456
113.00	318	195.00	645	283.00	787	424.00	4739
114.00	51	196.00	8796	284.00	456	425.00	478
115.00	91	198.00	287104	285.00	1220	429.00	63
116.00	1525	199.00	18864	286.00	228	430.00	54
117.00	20816	200.00	1634	288.00	63	434.00	126
118.00	1419	201.00	1181	289.00	222	435.00	149

Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\01.D

Date : 16-MAY-2024 12:32

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: Avg. Scans 491-493 (5.22), Background Scan 485
Location of Maximum: 442.00
Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	169	202.00	97	290.00	203	436.00	455
120.00	302	203.00	2071	291.00	151	437.00	668
121.00	120	204.00	10032	292.00	399	438.00	795
122.00	1800	205.00	16600	293.00	1640	439.00	1492
123.00	2991	206.00	72656	294.00	399	441.00	76816
124.00	1406	207.00	9281	295.00	398	442.00	534912
125.00	1317	208.00	2480	296.00	22928	443.00	101808
127.00	103784	209.00	887	297.00	3196	444.00	9654
128.00	7479	210.00	1203	298.00	167	445.00	582
129.00	41400	211.00	2955	301.00	344		
130.00	2925	212.00	81	302.00	481		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\03.D Page 1
Report Date: 16-May-2024 13:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 16-MAY-2024 13:33
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti 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	3.107	3.107	(1.000)	2782	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.166	4.166	(1.000)	6931	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.542	3.542	(0.850)	1591	0.08000	0.07646(QM)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	4819	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.169	5.169	(0.889)	5055	0.08000	0.06862(M)
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	9537	0.10000	(M)
* 182 Chrysene-d12	240	10.071	10.071	(1.000)	8099	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.839	8.839	(0.878)	10620	0.08000	0.06437(M)
* 198 Perylene-d12	264	12.119	12.119	(1.000)	8415	0.10000	(M)
1 1,4-Dioxane	58	1.671	1.671	(0.538)	475	0.08000	0.07971(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\240516A.b\03.D

Date : 16-MAY-2024 13:33

Client ID: 14DX-0.08

Instrument: SV6.i

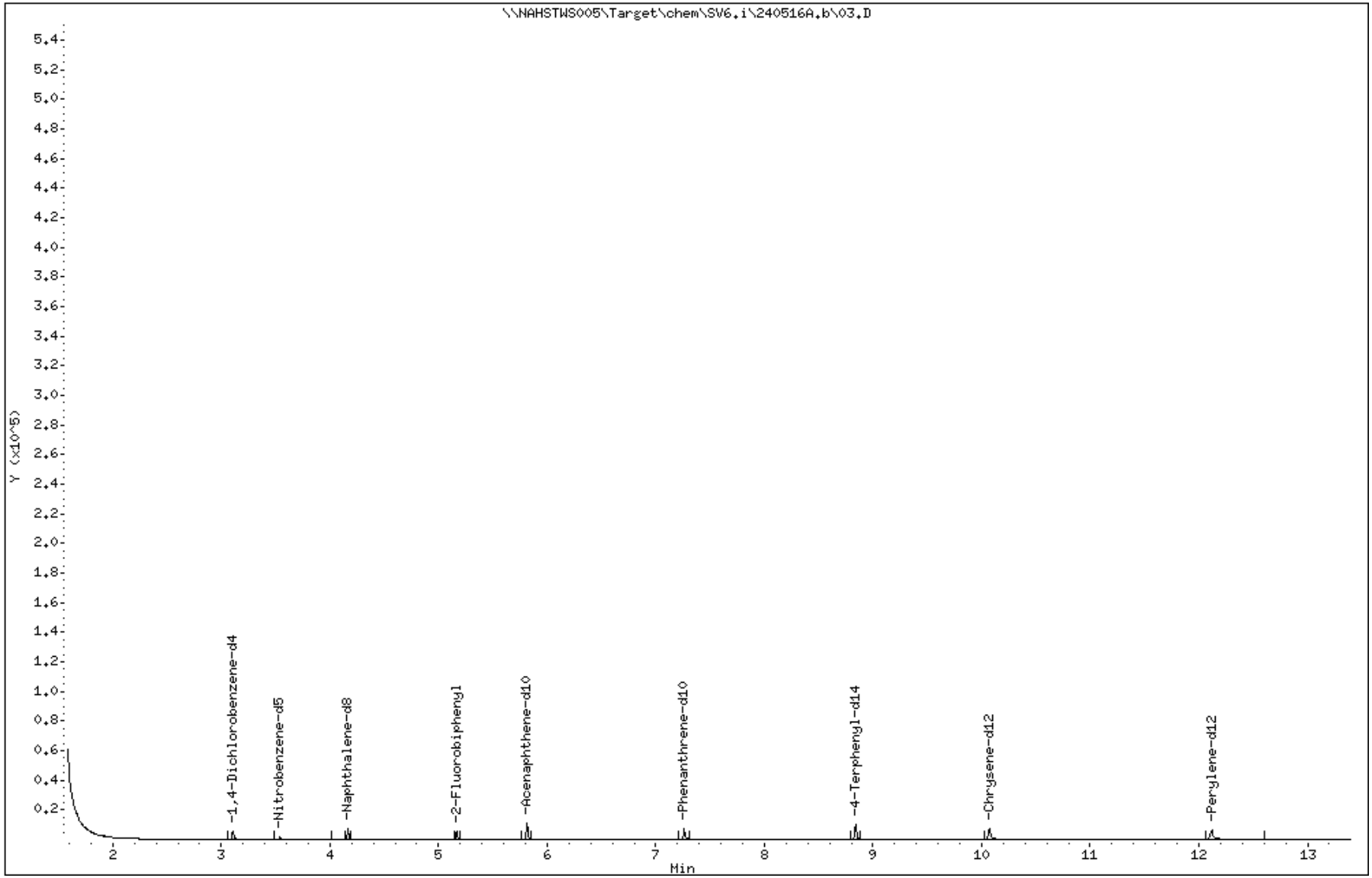
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

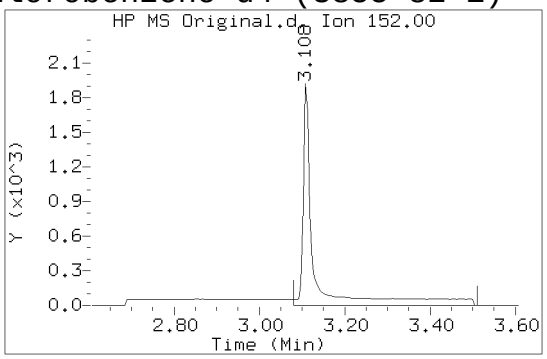


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\03.D
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

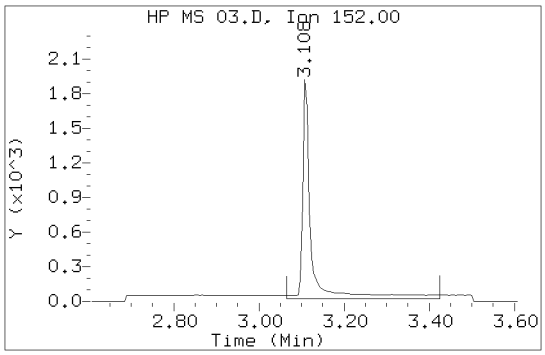
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

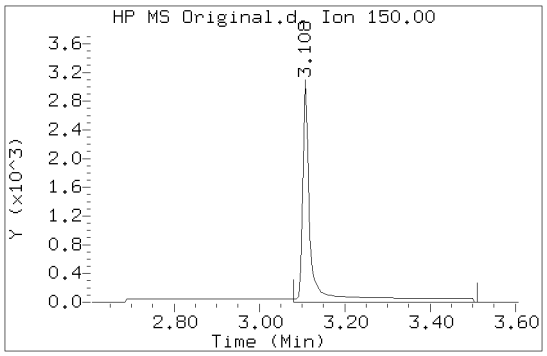
BEFORE
MASS
152
AREA
3411
HEIGHT
1921
16-May-2024
13:48
ALSHS
Server



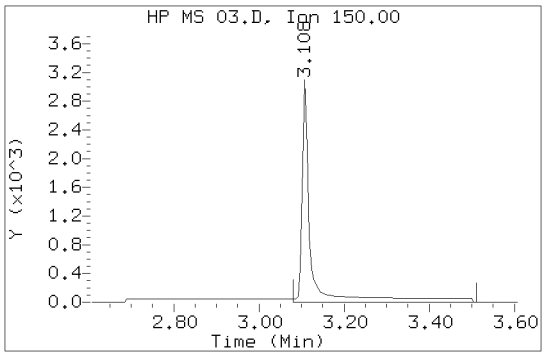
AFTER
MASS
152
AREA
2782
HEIGHT
1901
16-May-2024
13:50



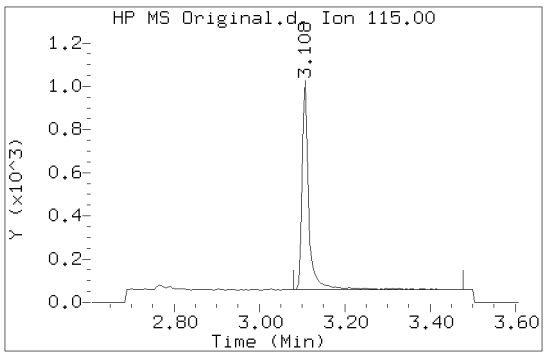
BEFORE
MASS
150
AREA
4584
HEIGHT
3096
16-May-2024
13:48
ALSHS
Server



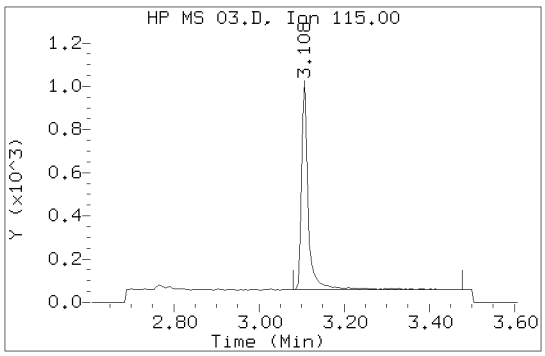
AFTER
MASS
150
AREA
4584
HEIGHT
3096
16-May-2024
13:50



BEFORE
MASS
115
AREA
1108
HEIGHT
968
16-May-2024
13:48
ALSHS
Server



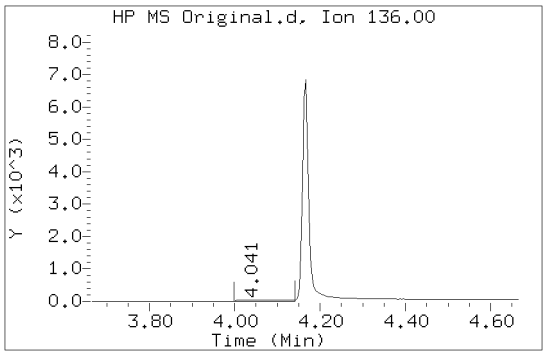
AFTER
MASS
115
AREA
1108
HEIGHT
968
16-May-2024
13:50



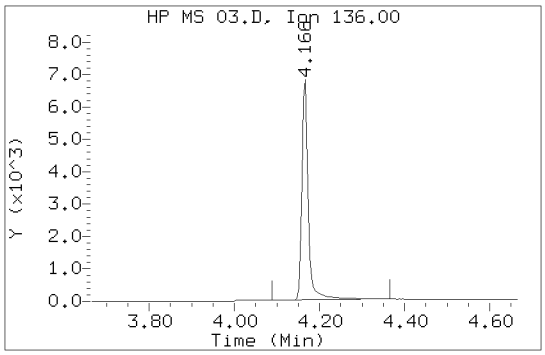
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
404
HEIGHT
49
16-May-2024
13:48
ALSHS
Server



AFTER
MASS
136
AREA
6931
HEIGHT
6787
16-May-2024
13:50



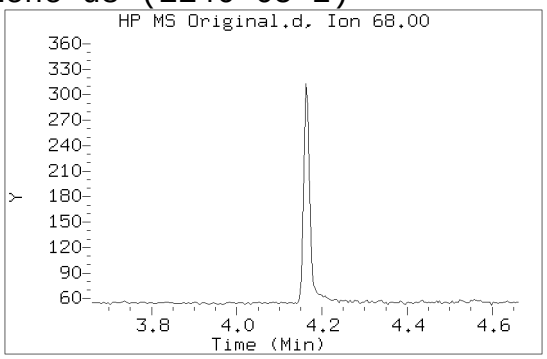
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\03.D
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

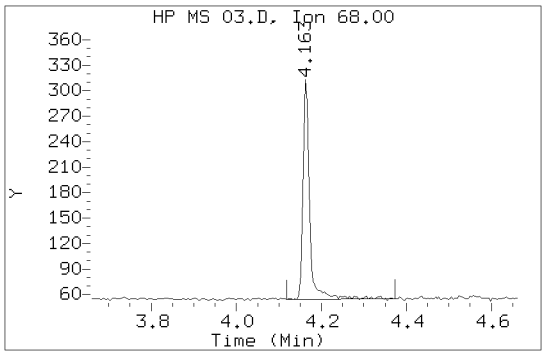
BEFORE

MASS
68
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
68
AREA
281
HEIGHT
258
16-May-2024
13:50

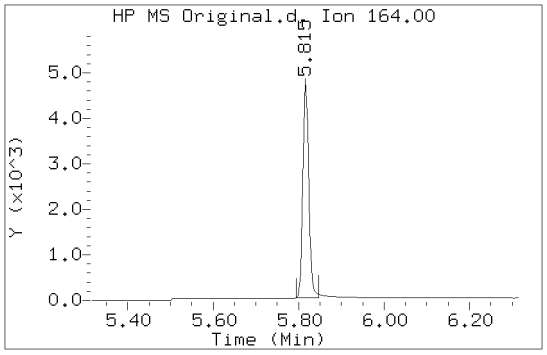


Acenaphthene-d10 (15067-26-2)

Reason Code:

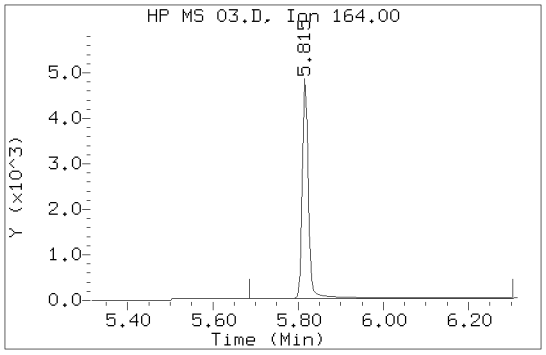
BEFORE

MASS
164
AREA
4509
HEIGHT
4820
16-May-2024
13:48
ALSHS
Server



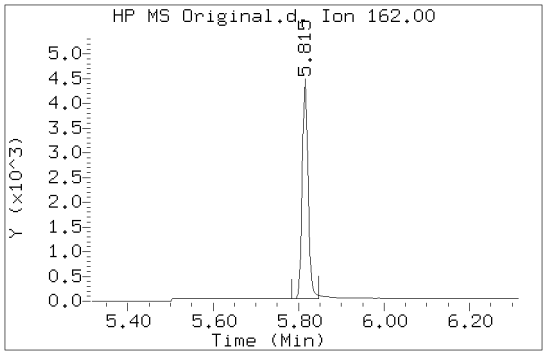
AFTER

MASS
164
AREA
4819
HEIGHT
4823
16-May-2024
13:50



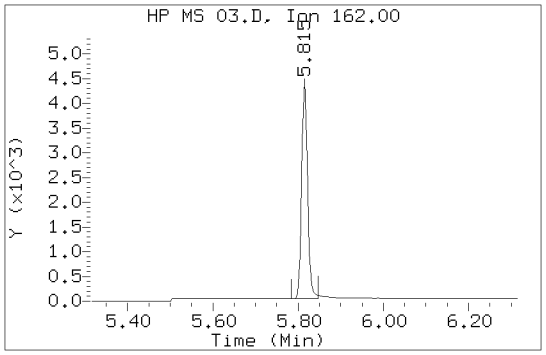
BEFORE

MASS
162
AREA
4166
HEIGHT
4448
16-May-2024
13:48
ALSHS
Server



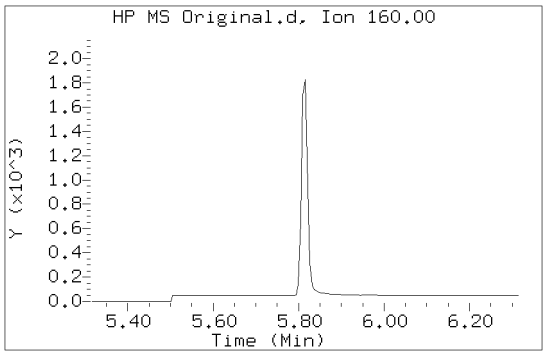
AFTER

MASS
162
AREA
4166
HEIGHT
4448
16-May-2024
13:50



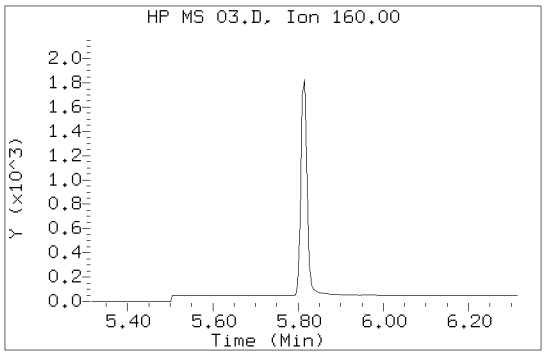
BEFORE

MASS
160
AREA
1899
HEIGHT
1780
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
160
AREA
1899
HEIGHT
1780
16-May-2024
13:50



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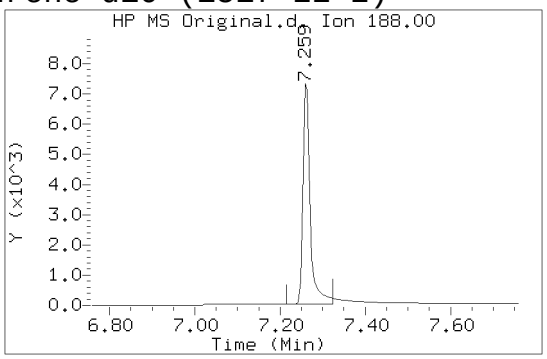
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

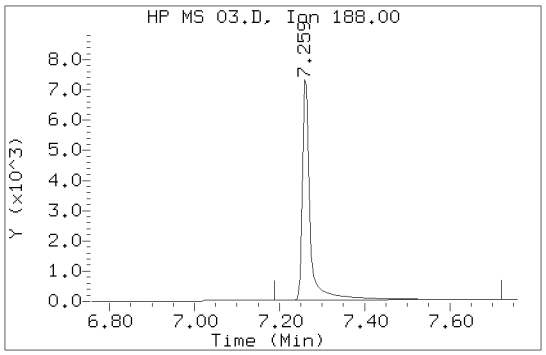
Phenanthrene-d10 (1517-22-2)

Reason Code:

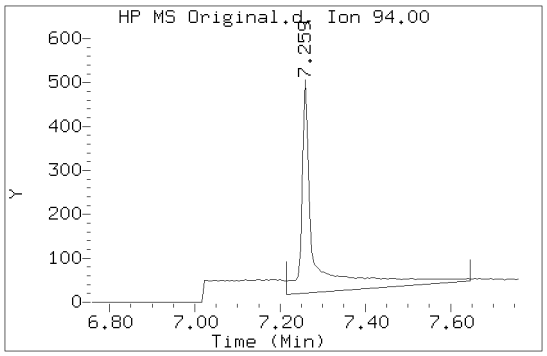
BEFORE
MASS
188
AREA
8743
HEIGHT
7293
16-May-2024
13:48
ALSHS
Server



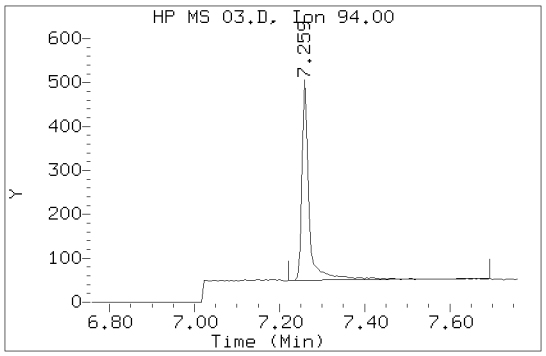
AFTER
MASS
188
AREA
9537
HEIGHT
7291
16-May-2024
13:50



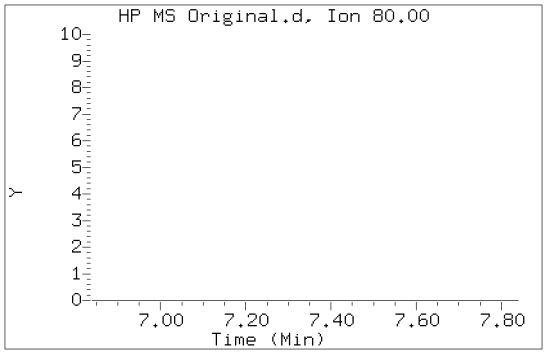
BEFORE
MASS
94
AREA
1020
HEIGHT
485
16-May-2024
13:48
ALSHS
Server



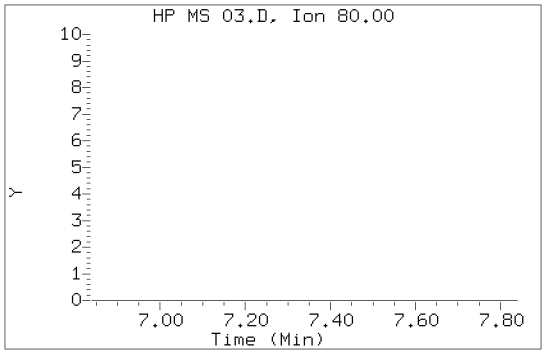
AFTER
MASS
94
AREA
527
HEIGHT
455
16-May-2024
13:50



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



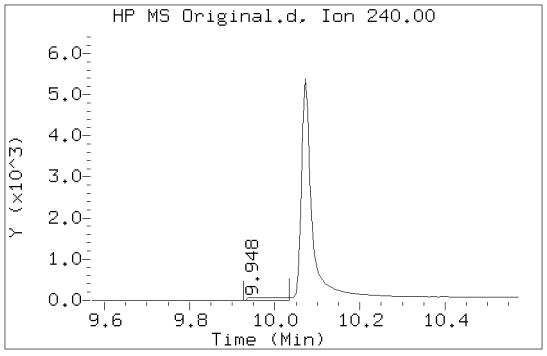
AFTER
MASS
80
AREA
0
HEIGHT
0
16-May-2024
13:50



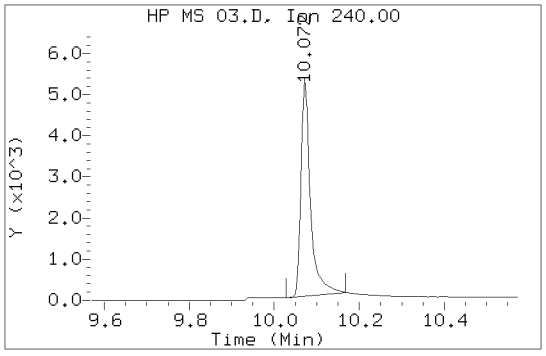
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
349
HEIGHT
59
16-May-2024
13:48
ALSHS
Server



AFTER
MASS
240
AREA
8099
HEIGHT
5291
16-May-2024
13:50



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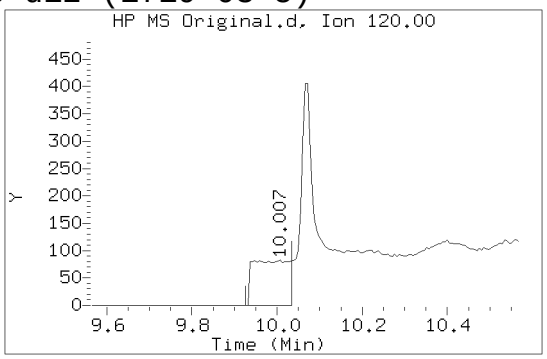
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

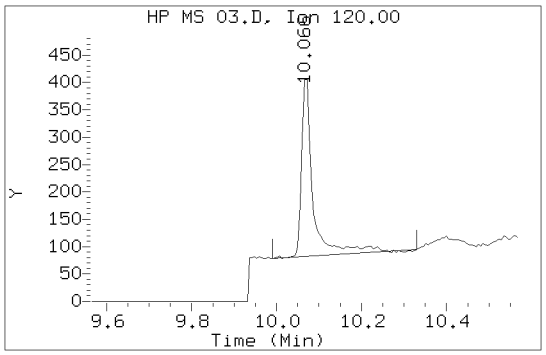
Chrysene-d12 (1719-03-5)

Reason Code:

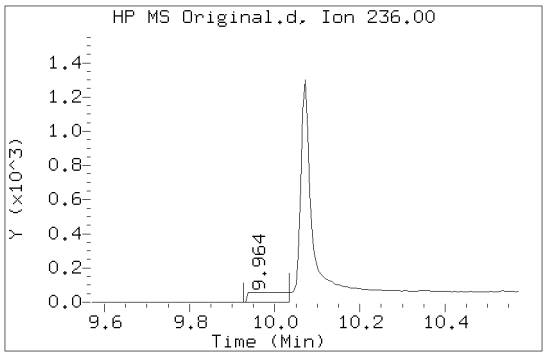
BEFORE
MASS
120
AREA
491
HEIGHT
83
16-May-2024
13:48
ALSHS
Server



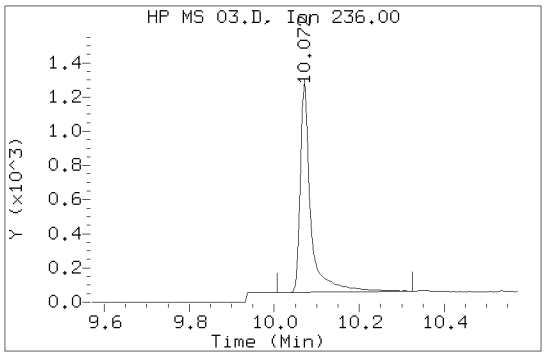
AFTER
MASS
120
AREA
588
HEIGHT
322
16-May-2024
13:50



BEFORE
MASS
236
AREA
345
HEIGHT
58
16-May-2024
13:48
ALSHS
Server



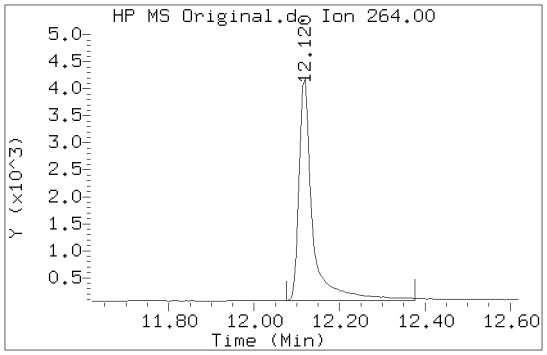
AFTER
MASS
236
AREA
2085
HEIGHT
1241
16-May-2024
13:50



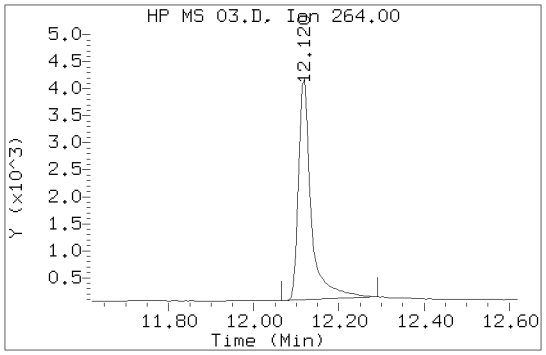
Perylene-d12 (1520-96-3)

Reason Code:

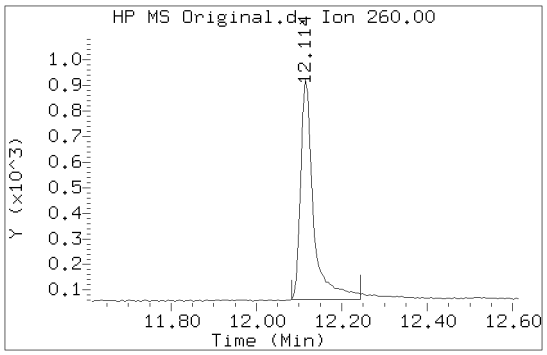
BEFORE
MASS
264
AREA
9144
HEIGHT
4103
16-May-2024
13:48
ALSHS
Server



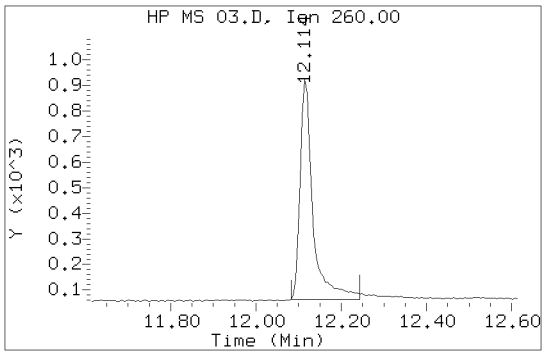
AFTER
MASS
264
AREA
8415
HEIGHT
4085
16-May-2024
13:50



BEFORE
MASS
260
AREA
1783
HEIGHT
858
16-May-2024
13:48
ALSHS
Server



AFTER
MASS
260
AREA
1783
HEIGHT
858
16-May-2024
13:50



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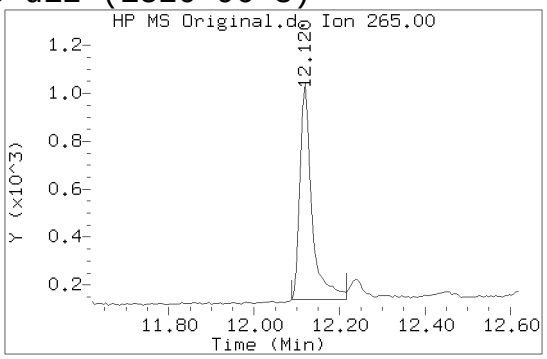
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

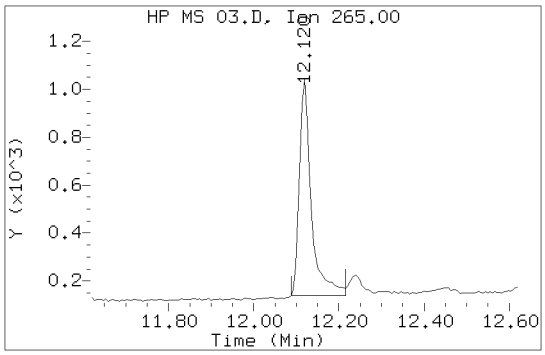
BEFORE

MASS
265
AREA
1744
HEIGHT
900
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
265
AREA
1744
HEIGHT
900
16-May-2024
13:50

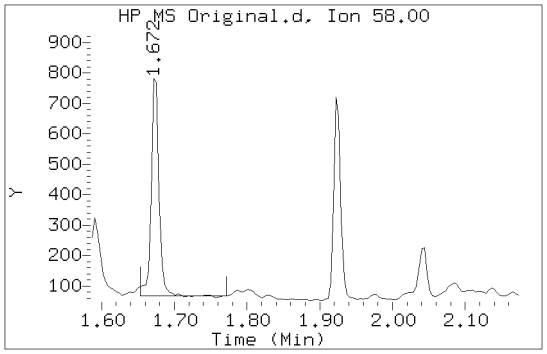


1,4-Dioxane ()

Reason Code:

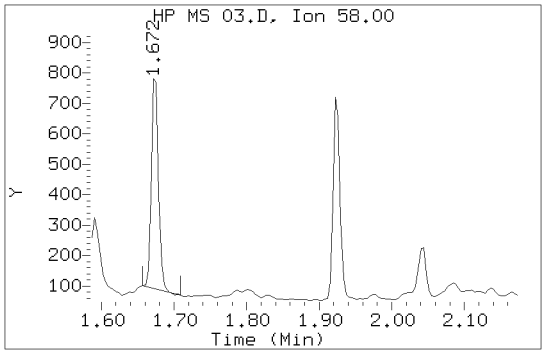
BEFORE

MASS
58
AREA
543
HEIGHT
714
16-May-2024
13:48
ALSHS
Server



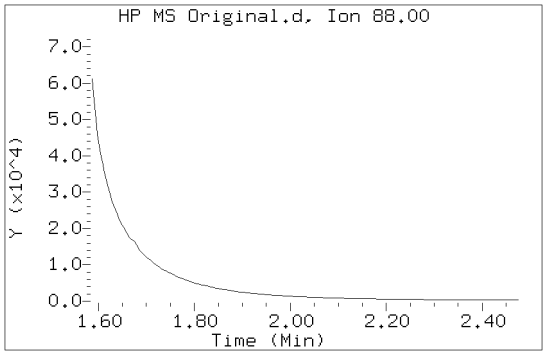
AFTER

MASS
58
AREA
475
HEIGHT
688
16-May-2024
13:50



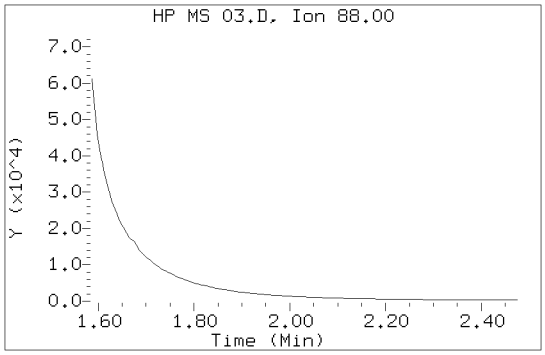
BEFORE

MASS
88
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
16-May-2024
13:50

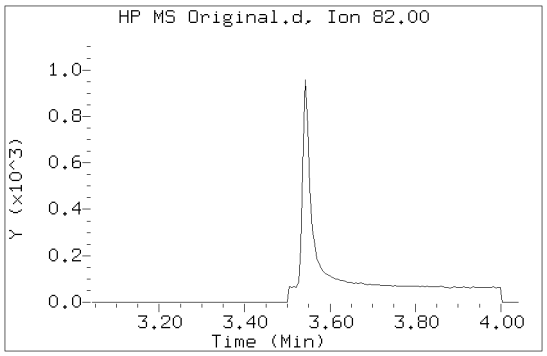


Nitrobenzene-d5 (4165-60-0)

Reason Code:

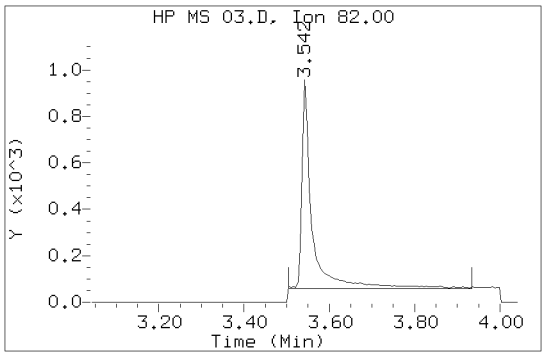
BEFORE

MASS
82
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
82
AREA
1591
HEIGHT
900
16-May-2024
13:50



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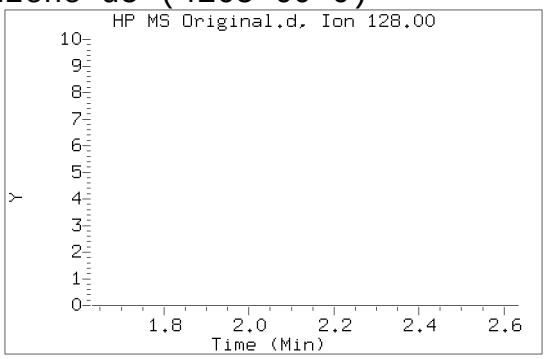
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

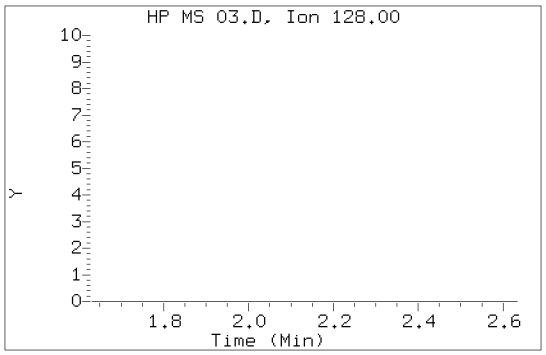
Nitrobenzene-d5 (4165-60-0)

Reason Code:

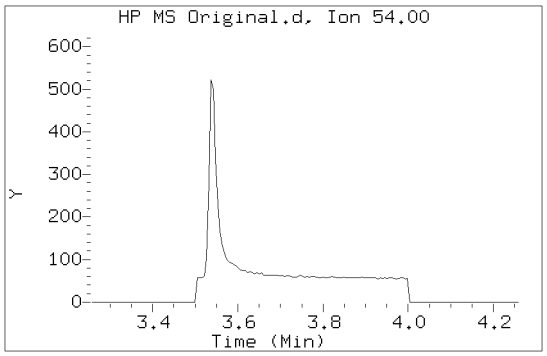
BEFORE
MASS
128
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



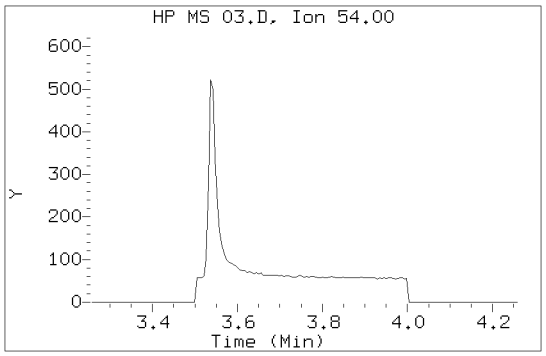
AFTER
MASS
128
AREA
0
HEIGHT
0
16-May-2024
13:50



BEFORE
MASS
54
AREA
0
HEIGHT
0
16-May-2024
13:48
ALSHS
Server



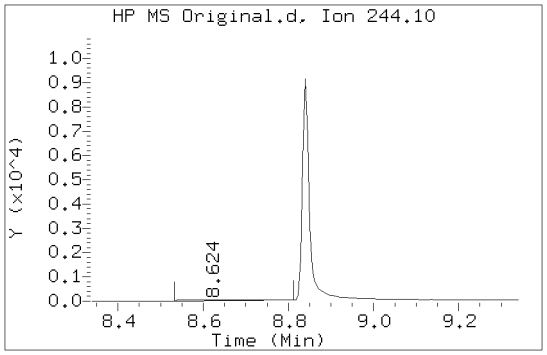
AFTER
MASS
54
AREA
0
HEIGHT
0
16-May-2024
13:50



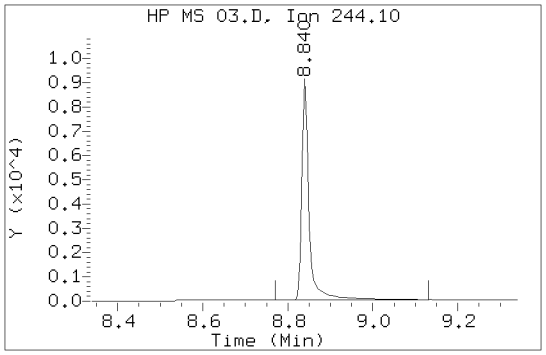
4-Terphenyl-d14 (1718-51-0)

Reason Code:

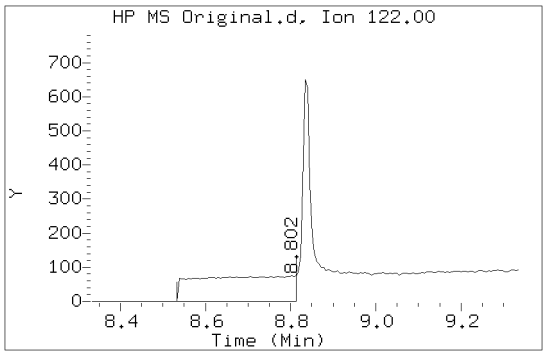
BEFORE
MASS
244.1
AREA
385
HEIGHT
32
16-May-2024
13:48
ALSHS
Server



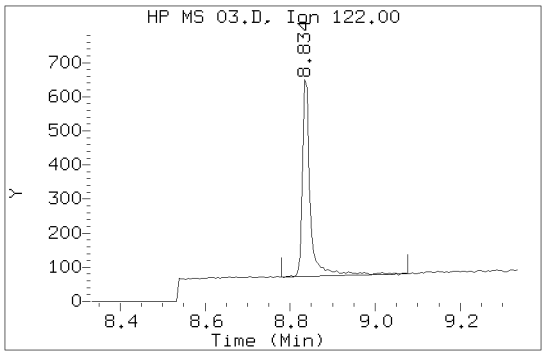
AFTER
MASS
244.1
AREA
10620
HEIGHT
9103
16-May-2024
13:50



BEFORE
MASS
122
AREA
1168
HEIGHT
76
16-May-2024
13:48
ALSHS
Server



AFTER
MASS
122
AREA
737
HEIGHT
577
16-May-2024
13:50



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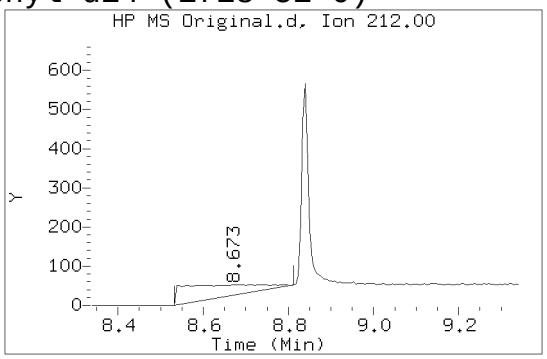
Inj Date : 16-MAY-2024 13:33
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

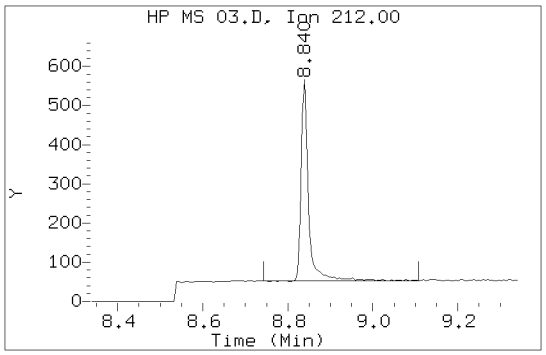
BEFORE

MASS
212
AREA
403
HEIGHT
26
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
212
AREA
614
HEIGHT
513
16-May-2024
13:50

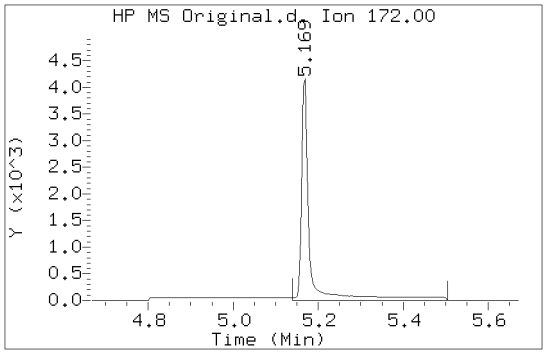


2-Fluorobiphenyl (321-60-8)

Reason Code:

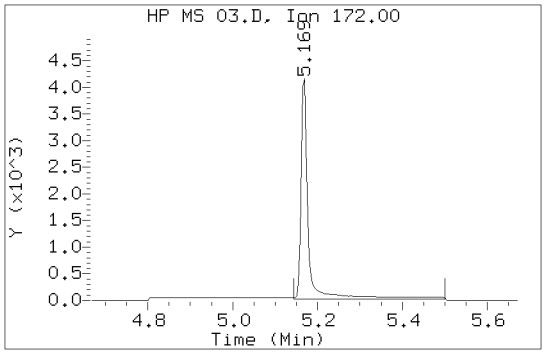
BEFORE

MASS
172
AREA
5606
HEIGHT
4165
16-May-2024
13:48
ALSHS
Server



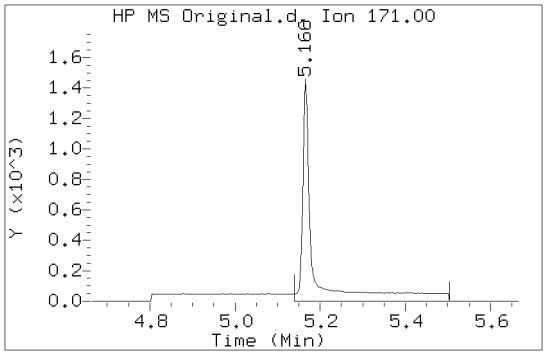
AFTER

MASS
172
AREA
5055
HEIGHT
4140
16-May-2024
13:50



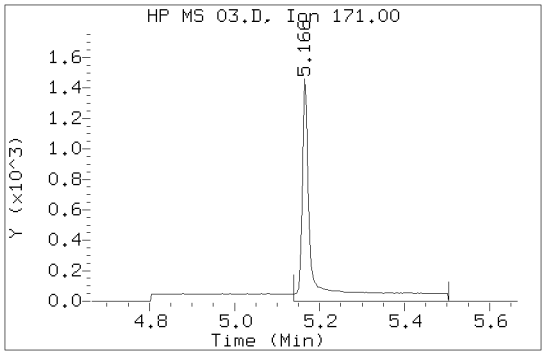
BEFORE

MASS
171
AREA
2580
HEIGHT
1460
16-May-2024
13:48
ALSHS
Server



AFTER

MASS
171
AREA
2580
HEIGHT
1460
16-May-2024
13:50



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Report Date: 17-May-2024 13:04

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

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Inj Date : 16-MAY-2024 14:40
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-211763
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5
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	3.107	3.107	(1.000)	2099	0.10000	(aM)
* 45 Naphthalene-d8	136	4.165	4.166	(1.000)	6821	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.542	3.542	(0.850)	1395	0.06812	0.06812(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	4548	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.169	5.169	(0.889)	3943	0.05671	0.05671(M)
* 126 Phenanthrene-d10	188	7.263	7.258	(1.000)	8830	0.10000	(M)
* 182 Chrysene-d12	240	10.076	10.071	(1.000)	8244	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.844	8.839	(0.878)	12198	0.07263	0.07263(M)
* 198 Perylene-d12	264	12.119	12.119	(1.000)	8633	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\240516A.b\05.D

Date : 16-MAY-2024 14:40

Client ID:

Instrument: SV6.i

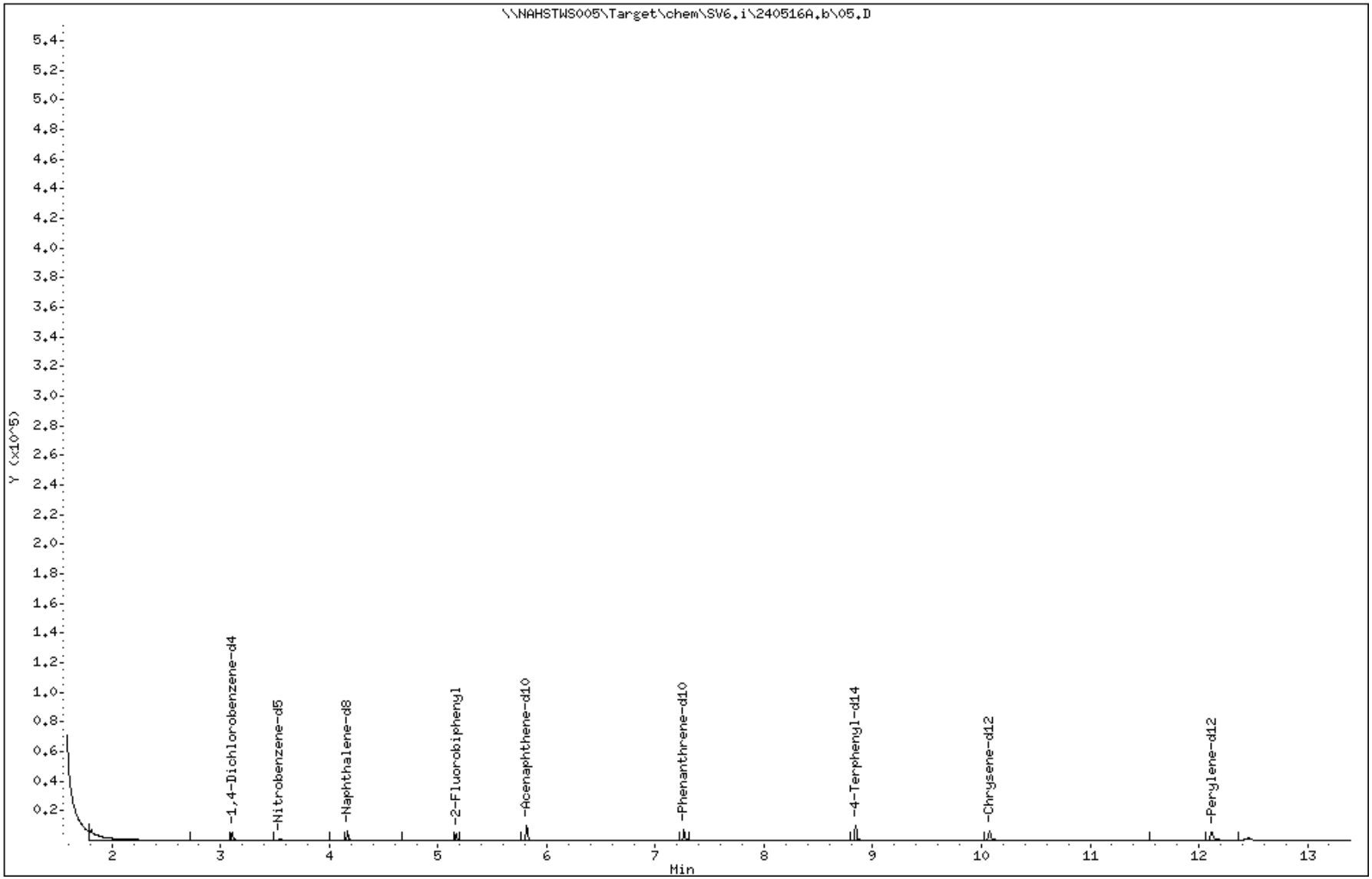
Sample Info: MBLK-211763

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



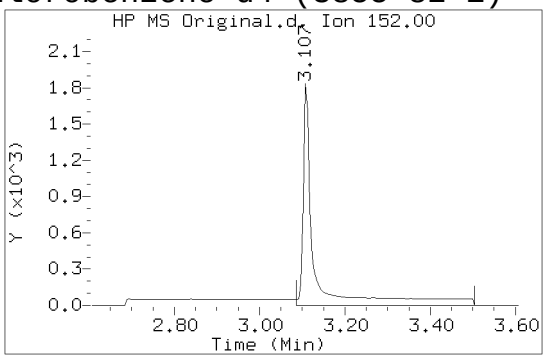
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

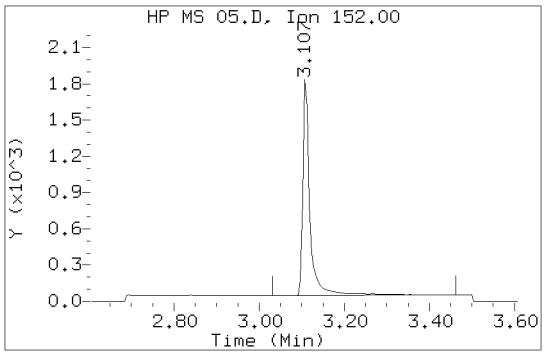
BEFORE

MASS
152
AREA
3389
HEIGHT
1834
16-May-2024
14:54
ALSHS
Server



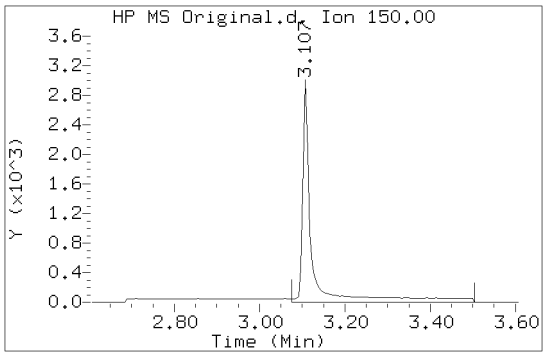
AFTER

MASS
152
AREA
2099
HEIGHT
1784
17-May-2024
13:04



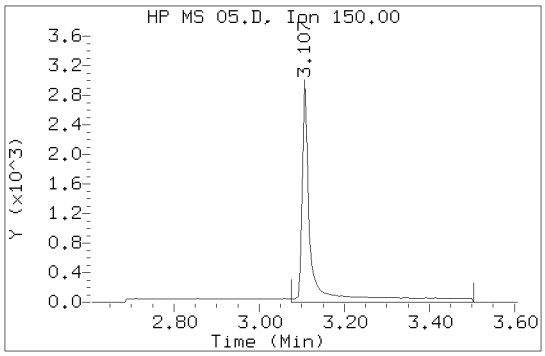
BEFORE

MASS
150
AREA
4606
HEIGHT
3009
16-May-2024
14:54
ALSHS
Server



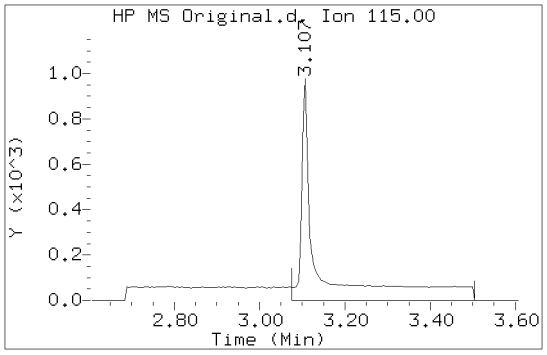
AFTER

MASS
150
AREA
4606
HEIGHT
3009
17-May-2024
13:04



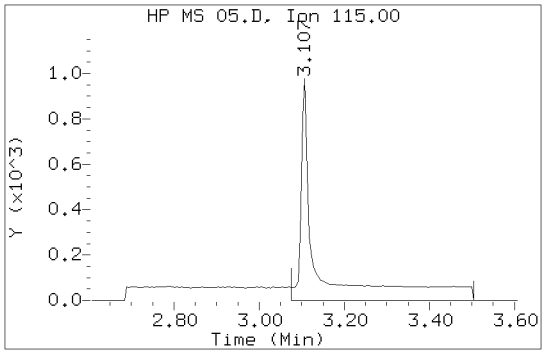
BEFORE

MASS
115
AREA
2557
HEIGHT
977
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
115
AREA
2557
HEIGHT
977
17-May-2024
13:04

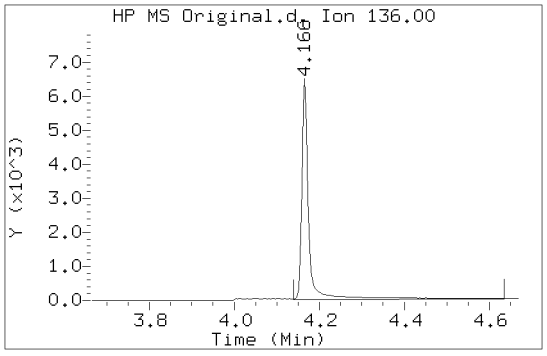


Naphthalene-d8 (1146-65-2)

Reason Code:

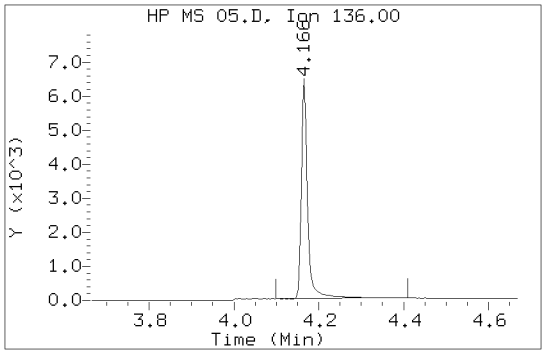
BEFORE

MASS
136
AREA
7727
HEIGHT
6505
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
136
AREA
6821
HEIGHT
6466
17-May-2024
13:04



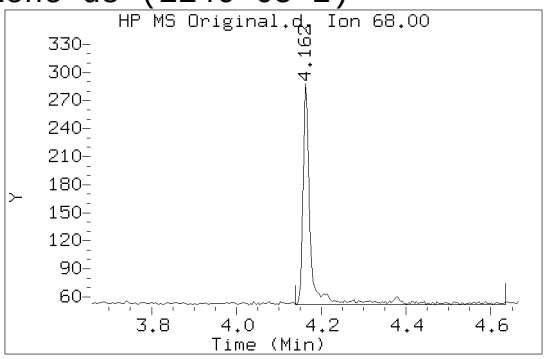
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

Naphthalene-d8 (1146-65-2)

Reason Code:

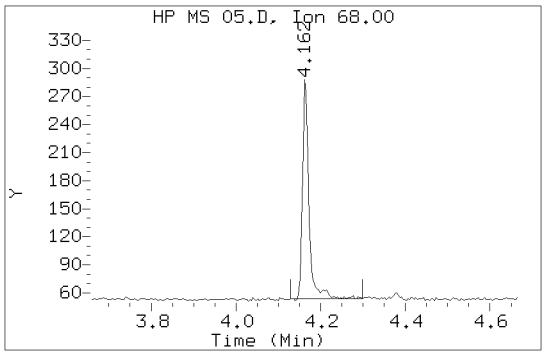
BEFORE

MASS
68
AREA
309
HEIGHT
236
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
68
AREA
250
HEIGHT
234
17-May-2024
13:04

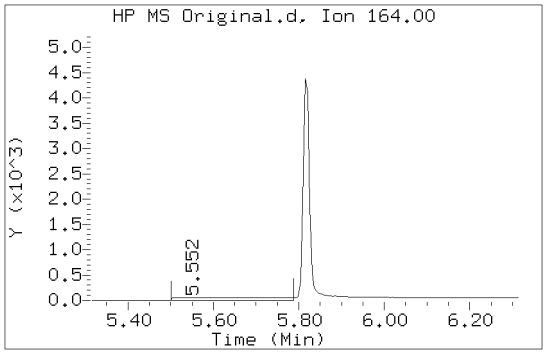


Acenaphthene-d10 (15067-26-2)

Reason Code:

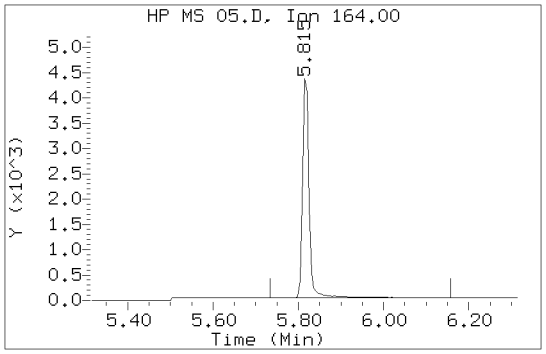
BEFORE

MASS
164
AREA
810
HEIGHT
50
16-May-2024
14:54
ALSHS
Server



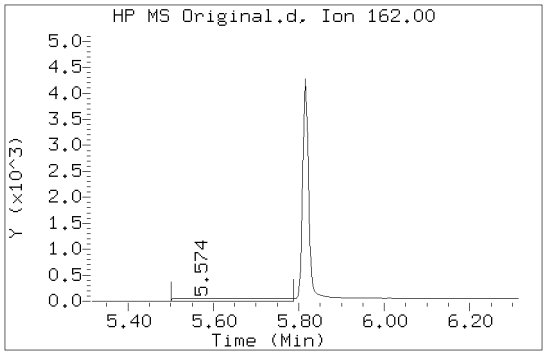
AFTER

MASS
164
AREA
4548
HEIGHT
4332
17-May-2024
13:04



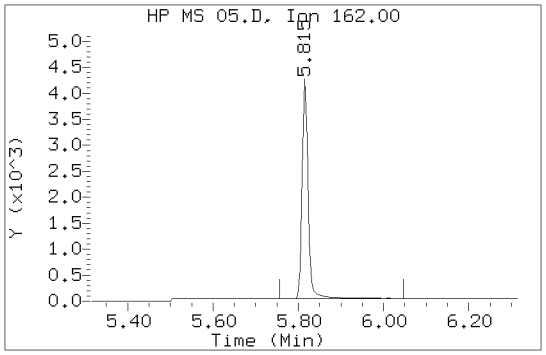
BEFORE

MASS
162
AREA
803
HEIGHT
49
16-May-2024
14:54
ALSHS
Server



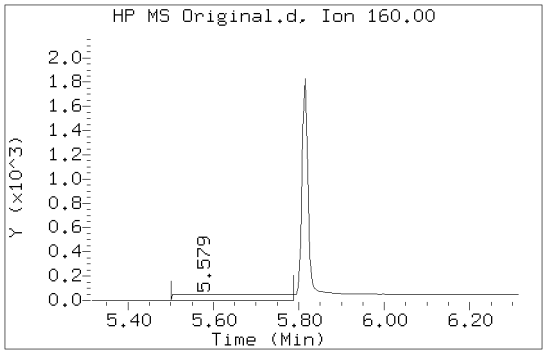
AFTER

MASS
162
AREA
4050
HEIGHT
4228
17-May-2024
13:04



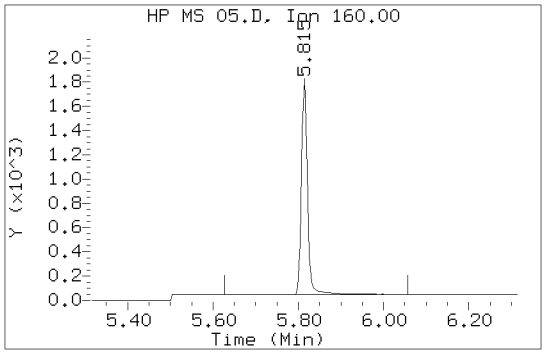
BEFORE

MASS
160
AREA
790
HEIGHT
47
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
160
AREA
1740
HEIGHT
1781
17-May-2024
13:04

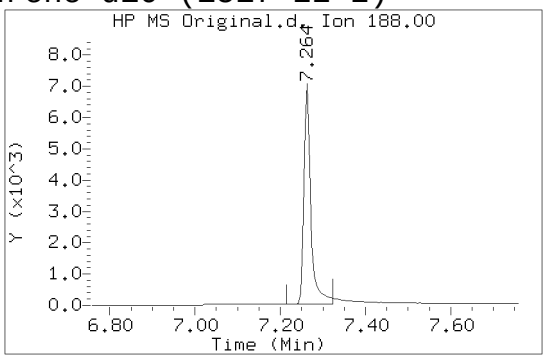


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

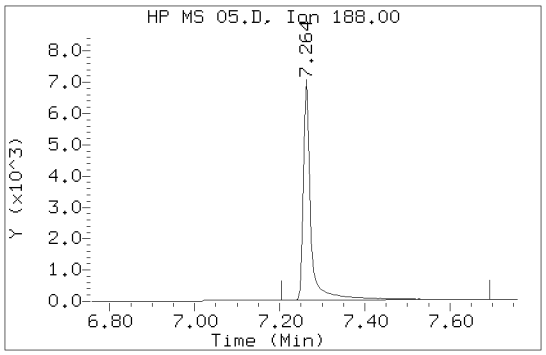
Phenanthrene-d10 (1517-22-2)

Reason Code:

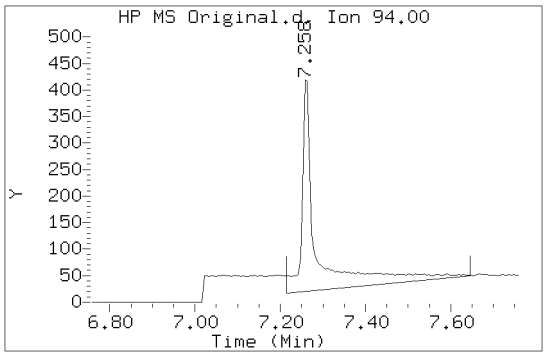
BEFORE
MASS
188
AREA
8041
HEIGHT
7036
16-May-2024
14:54
ALSHS
Server



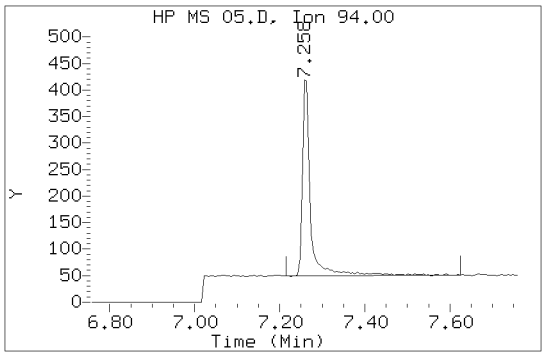
AFTER
MASS
188
AREA
8830
HEIGHT
7035
17-May-2024
13:04



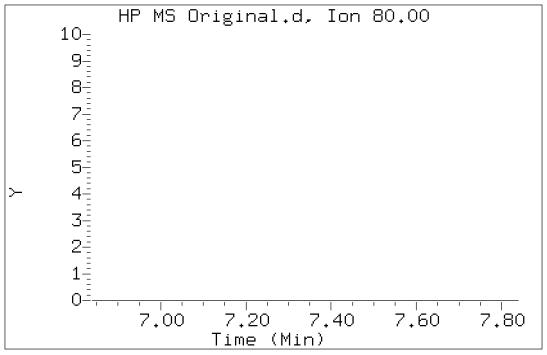
BEFORE
MASS
94
AREA
934
HEIGHT
398
16-May-2024
14:54
ALSHS
Server



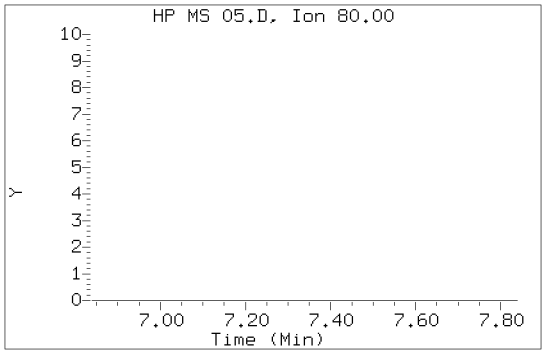
AFTER
MASS
94
AREA
488
HEIGHT
368
17-May-2024
13:04



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



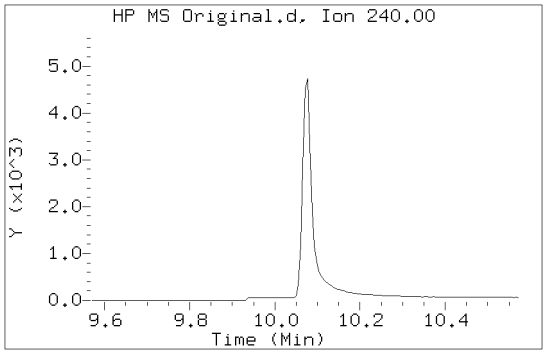
AFTER
MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:04



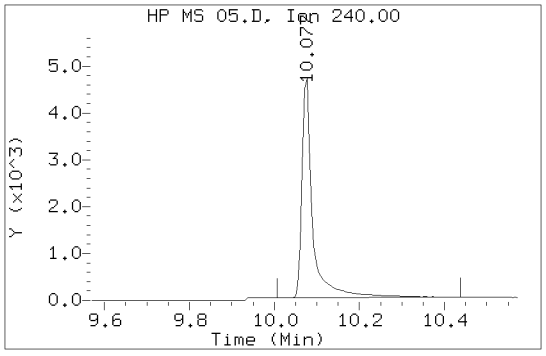
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



AFTER
MASS
240
AREA
8244
HEIGHT
4678
17-May-2024
13:04

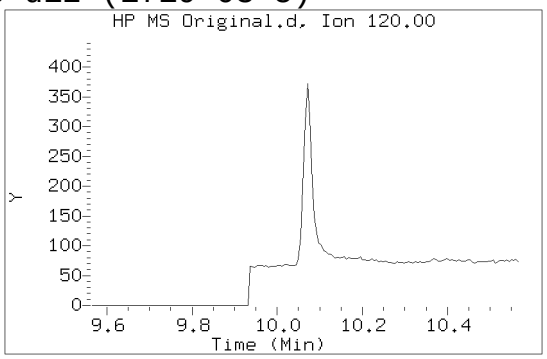


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

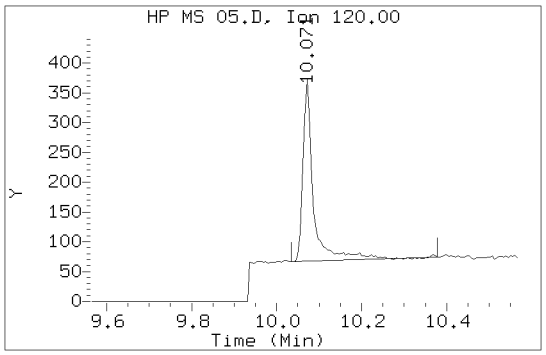
Chrysene-d12 (1719-03-5)

Reason Code:

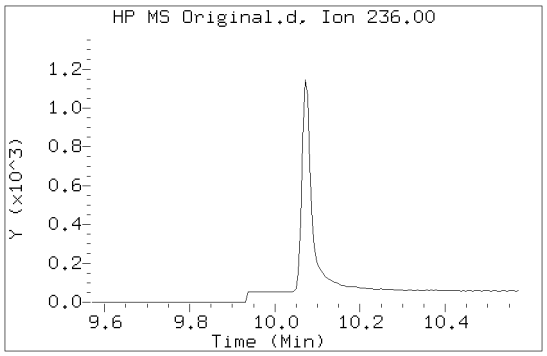
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



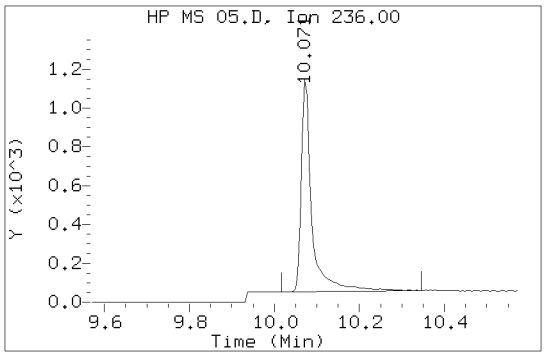
AFTER
MASS
120
AREA
509
HEIGHT
304
17-May-2024
13:04



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



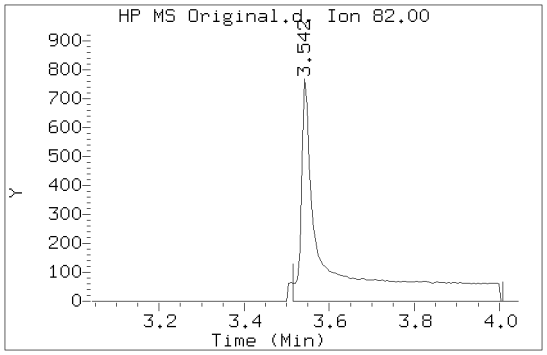
AFTER
MASS
236
AREA
1881
HEIGHT
1091
17-May-2024
13:04



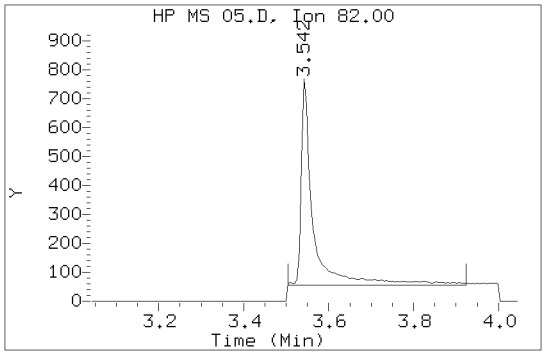
Nitrobenzene-d5 (4165-60-0)

Reason Code:

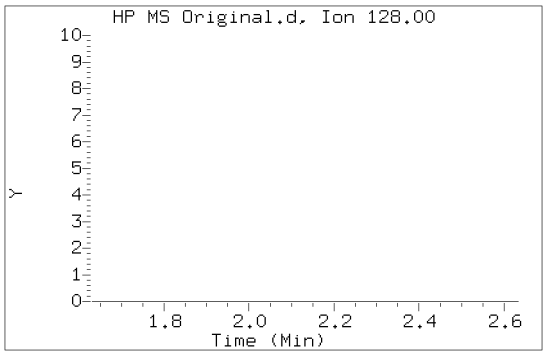
BEFORE
MASS
82
AREA
3048
HEIGHT
769
16-May-2024
14:54
ALSHS
Server



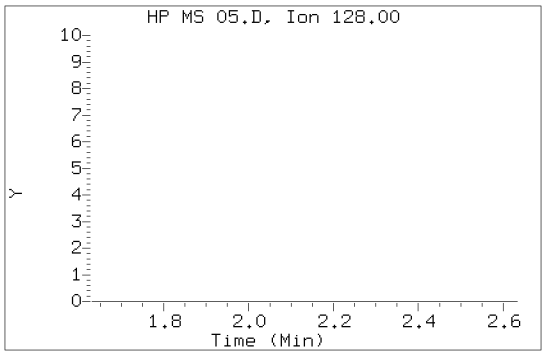
AFTER
MASS
82
AREA
1395
HEIGHT
713
17-May-2024
13:04



BEFORE
MASS
128
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:04



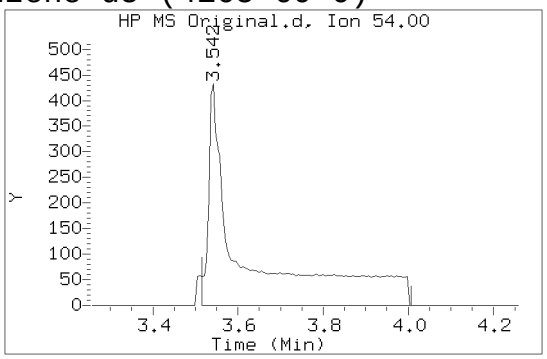
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

Nitrobenzene-d5 (4165-60-0)

Reason Code:

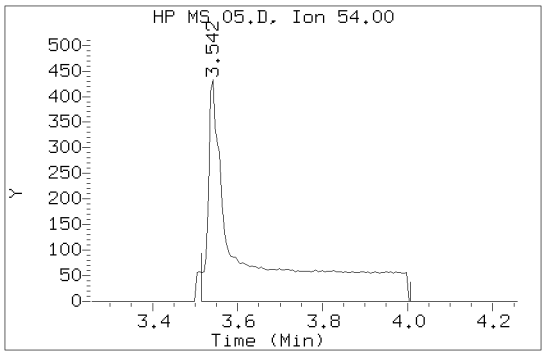
BEFORE

MASS
54
AREA
2402
HEIGHT
433
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
54
AREA
2402
HEIGHT
433
17-May-2024
13:04

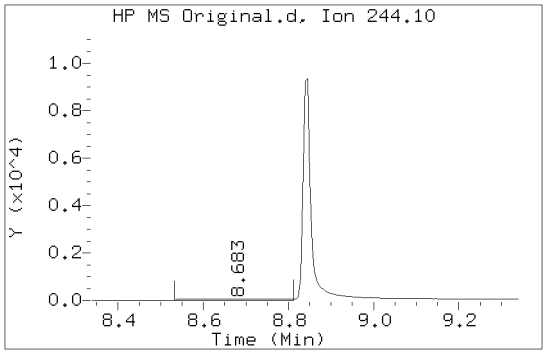


4-Terphenyl-d14 (1718-51-0)

Reason Code:

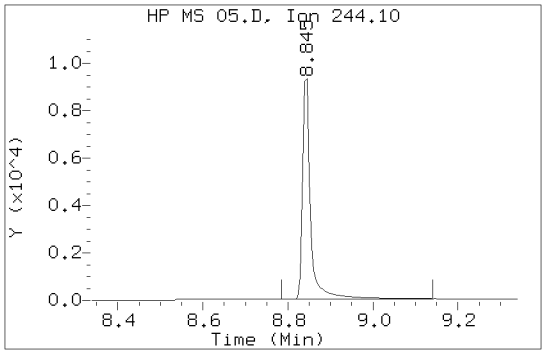
BEFORE

MASS
244.1
AREA
785
HEIGHT
48
16-May-2024
14:54
ALSHS
Server



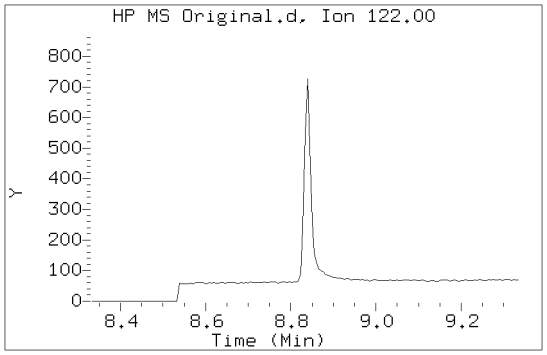
AFTER

MASS
244.1
AREA
12198
HEIGHT
9307
17-May-2024
13:04



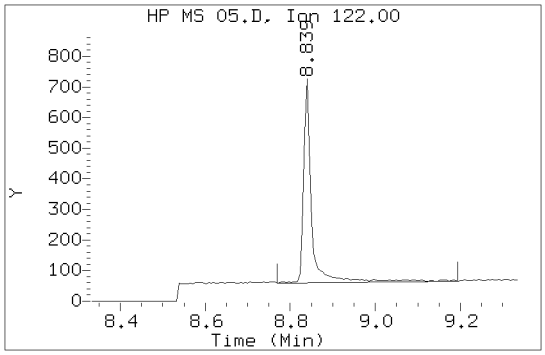
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-May-2024
14:54
ALSHS
Server



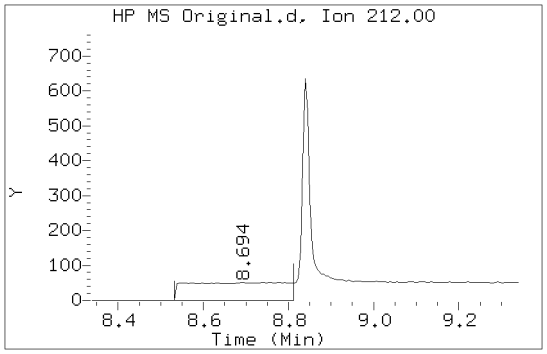
AFTER

MASS
122
AREA
870
HEIGHT
665
17-May-2024
13:04



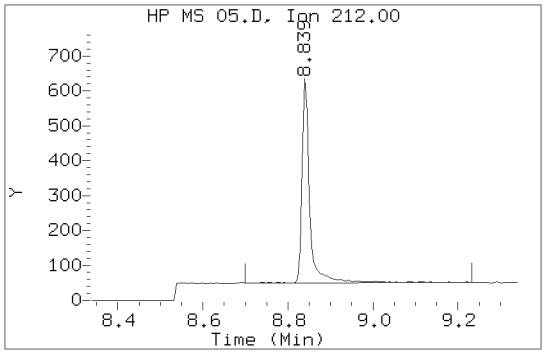
BEFORE

MASS
212
AREA
827
HEIGHT
52
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
212
AREA
719
HEIGHT
584
17-May-2024
13:04



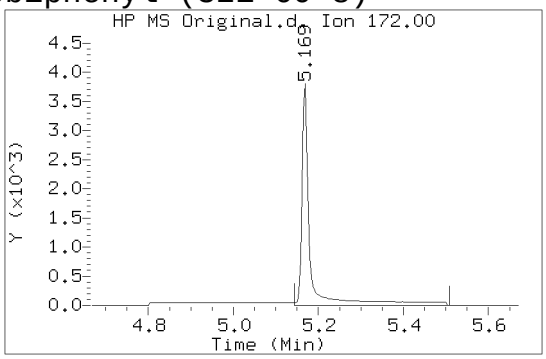
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\05.D
Inj Date : 16-MAY-2024 14:40
InstruID : SV6.i
LabSampID : MBLK-211763

2-Fluorobiphenyl (321-60-8)

Reason Code:

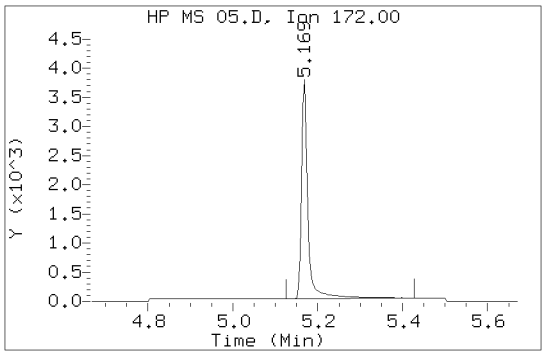
BEFORE

MASS
172
AREA
5105
HEIGHT
3802
16-May-2024
14:54
ALSHS
Server



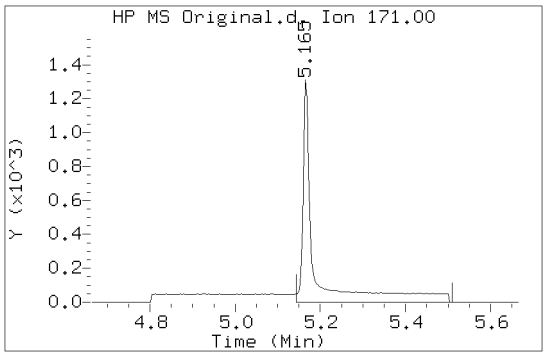
AFTER

MASS
172
AREA
3943
HEIGHT
3755
17-May-2024
13:04



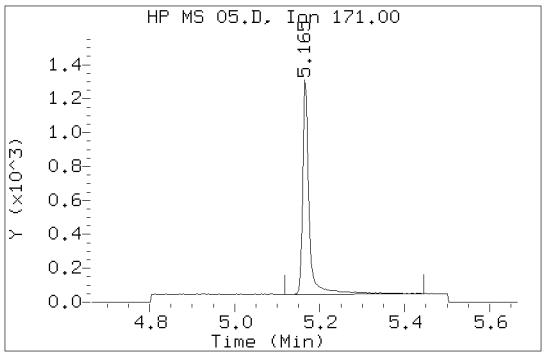
BEFORE

MASS
171
AREA
2416
HEIGHT
1311
16-May-2024
14:54
ALSHS
Server



AFTER

MASS
171
AREA
1336
HEIGHT
1263
17-May-2024
13:04



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D Page 1
Report Date: 17-May-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Lab Smp Id: LCS-211763
Inj Date : 16-MAY-2024 14:57
Operator : LG Inst ID: SV6.i
Smp Info : LCS-211763
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti 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	3.107	3.107	(1.000)	1645	0.10000	(aM)
* 45 Naphthalene-d8	136	4.162	4.166	(1.000)	5558	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.542	3.542	(0.851)	1180	0.07072	0.07072(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	3707	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.165	5.169	(0.888)	3524	0.06219	0.06219(M)
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	7899	0.10000	(M)
* 182 Chrysene-d12	240	10.066	10.071	(1.000)	7158	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.834	8.839	(0.878)	9251	0.06344	0.06344(M)
* 198 Perylene-d12	264	12.114	12.119	(1.000)	8988	0.10000	(M)
1 1,4-Dioxane	58	1.660	1.671	(0.534)	258	0.07322	0.07322(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\240516A.b\06.D

Date : 16-MAY-2024 14:57

Client ID:

Instrument: SV6.i

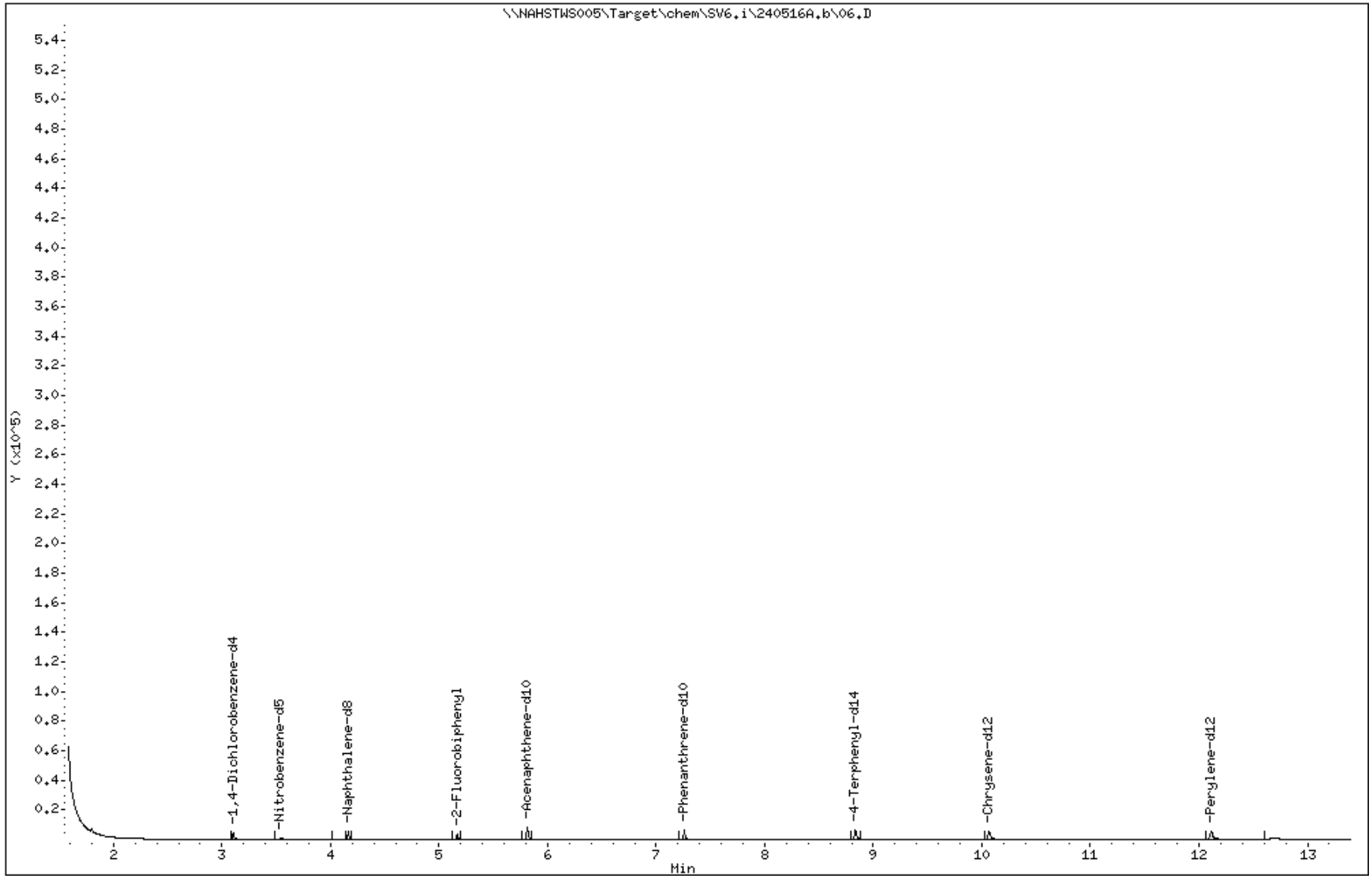
Sample Info: LCS-211763

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D

Date : 16-MAY-2024 14:57

Client ID:

Instrument: SV6.i

Sample Info: LCS-211763

Purge Volume: 1000.0

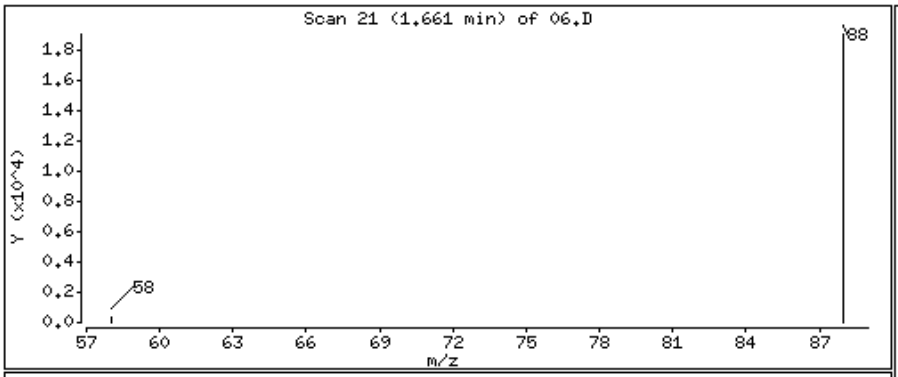
Operator: LG

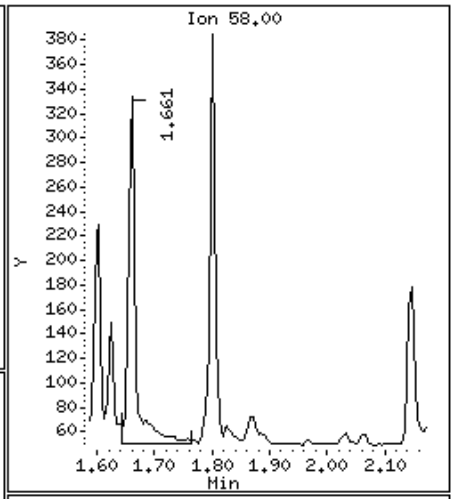
Column phase: RTX-5SIL MS

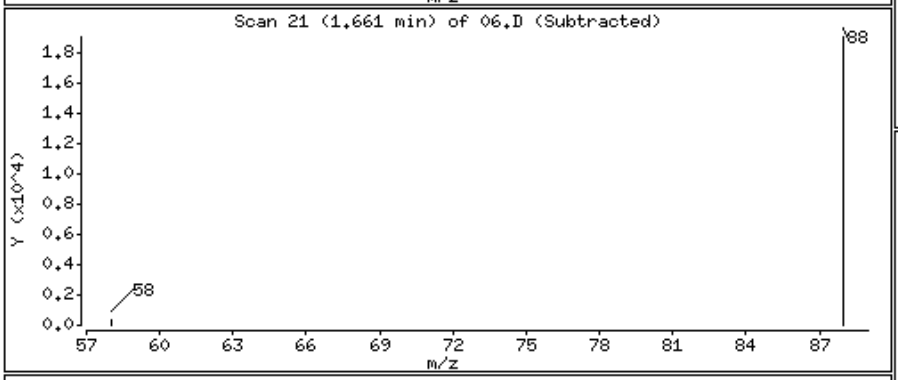
Column diameter: 0.28

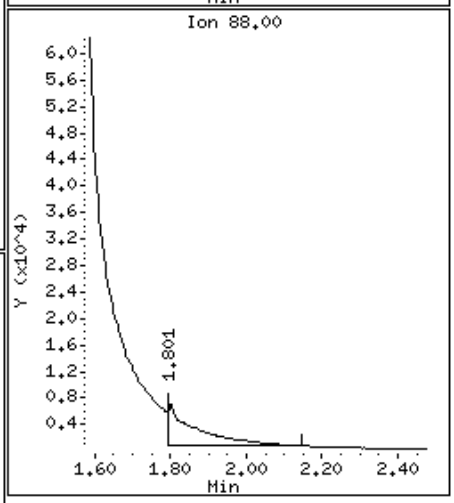
1 1,4-Dioxane

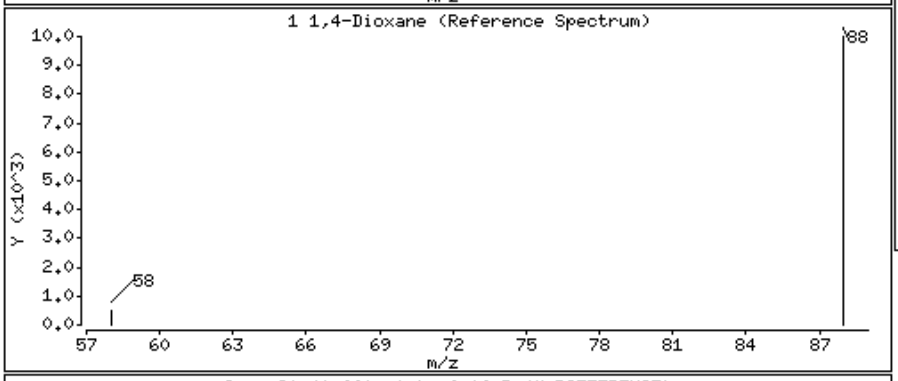
Concentration: 0.07322 ug/L

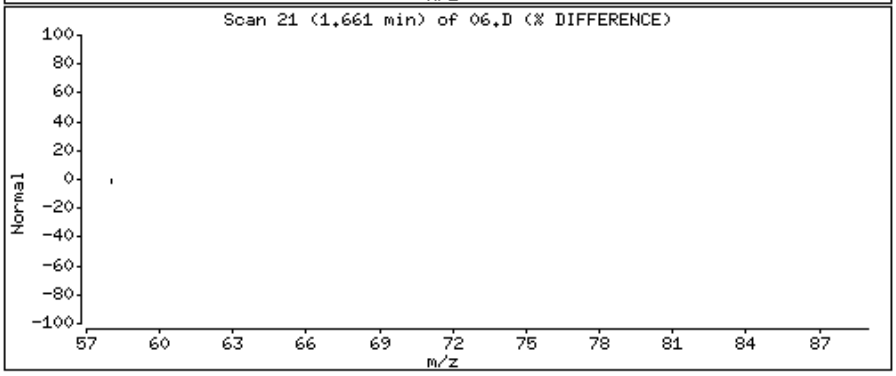












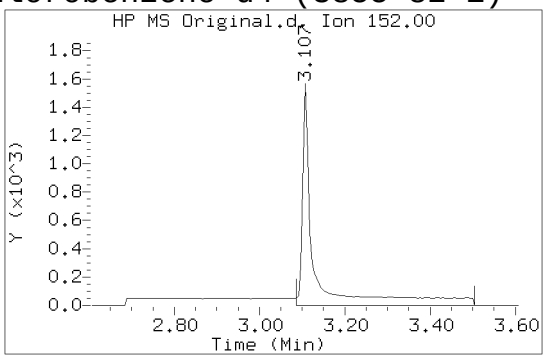
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

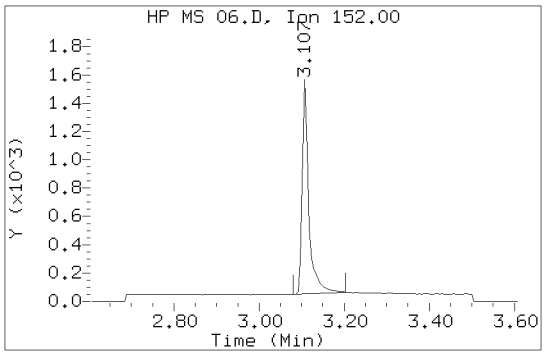
BEFORE

MASS
152
AREA
3048
HEIGHT
1566
16-May-2024
15:12
ALSHS
Server



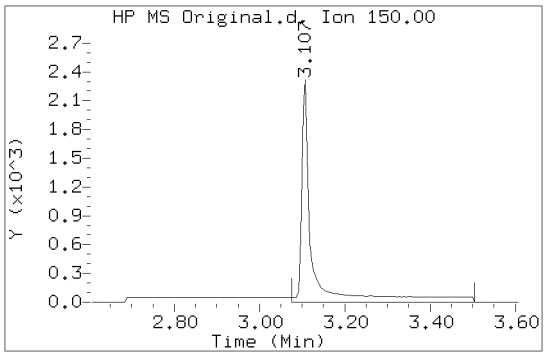
AFTER

MASS
152
AREA
1645
HEIGHT
1514
17-May-2024
13:06



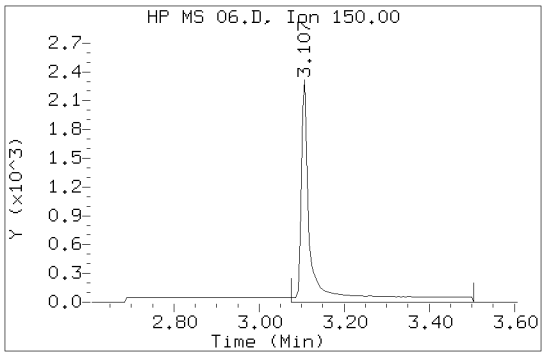
BEFORE

MASS
150
AREA
4071
HEIGHT
2316
16-May-2024
15:12
ALSHS
Server



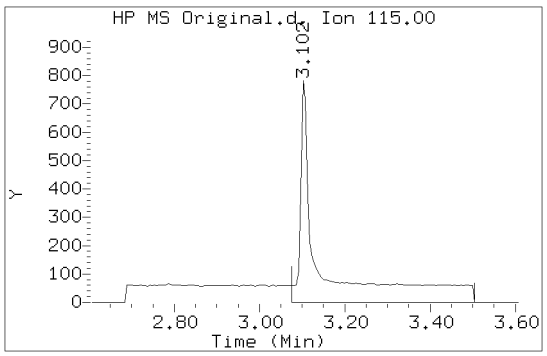
AFTER

MASS
150
AREA
4071
HEIGHT
2316
17-May-2024
13:06



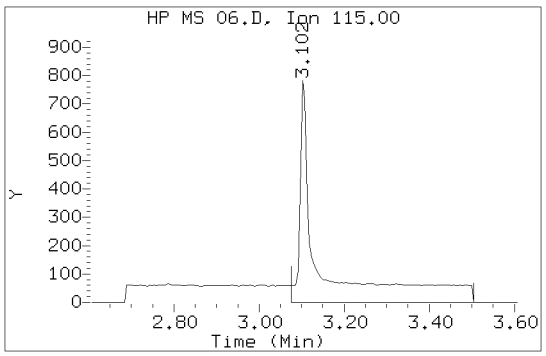
BEFORE

MASS
115
AREA
2437
HEIGHT
782
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
115
AREA
2437
HEIGHT
782
17-May-2024
13:06

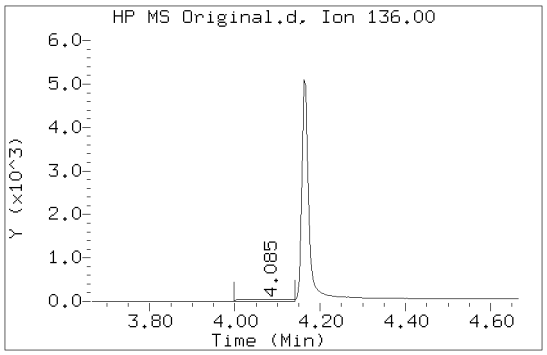


Naphthalene-d8 (1146-65-2)

Reason Code:

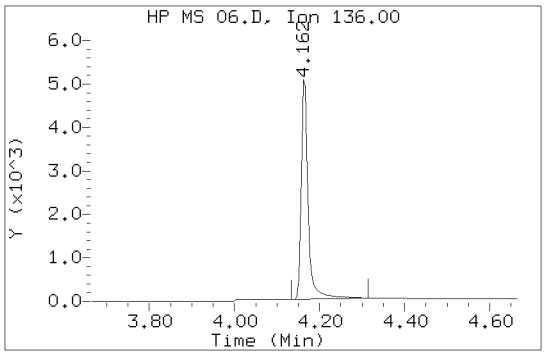
BEFORE

MASS
136
AREA
402
HEIGHT
49
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
136
AREA
5558
HEIGHT
5047
17-May-2024
13:06



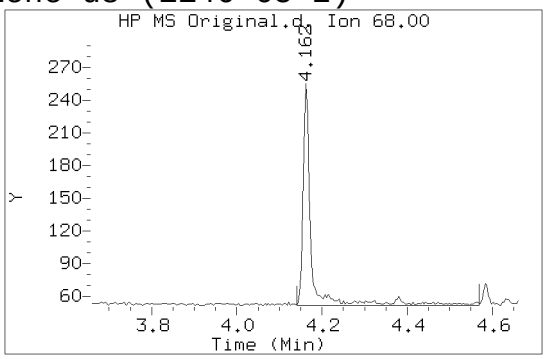
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

Naphthalene-d8 (1146-65-2)

Reason Code:

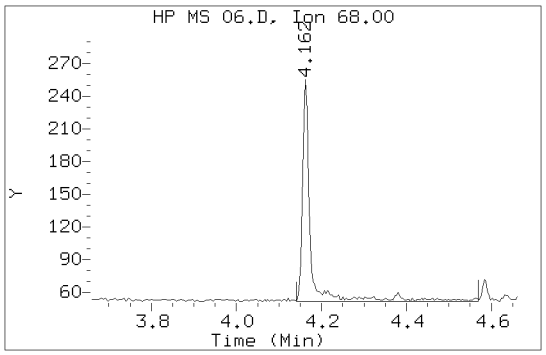
BEFORE

MASS
68
AREA
266
HEIGHT
203
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
68
AREA
266
HEIGHT
203
17-May-2024
13:06

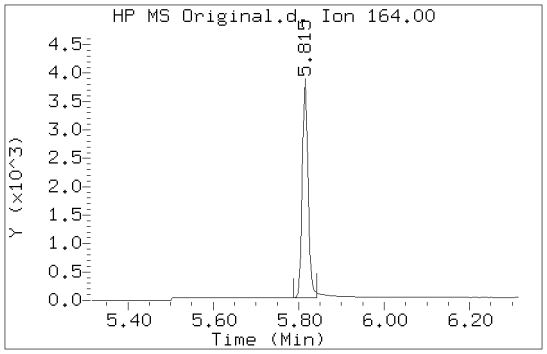


Acenaphthene-d10 (15067-26-2)

Reason Code:

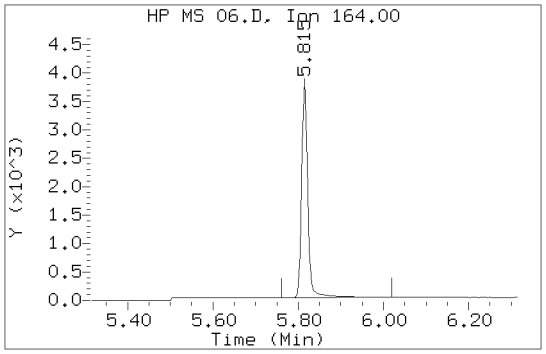
BEFORE

MASS
164
AREA
3544
HEIGHT
3853
16-May-2024
15:12
ALSHS
Server



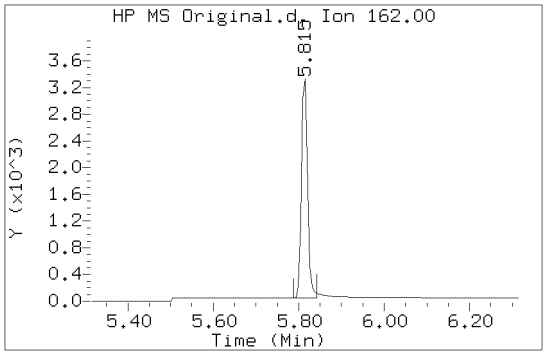
AFTER

MASS
164
AREA
3707
HEIGHT
3852
17-May-2024
13:06



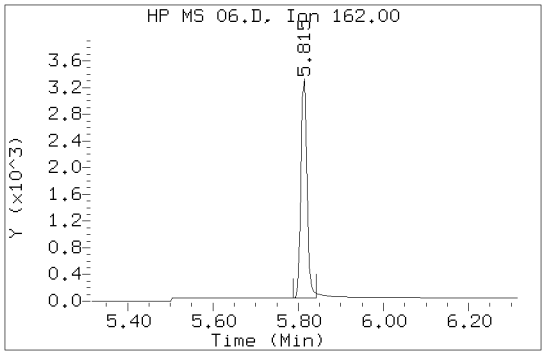
BEFORE

MASS
162
AREA
3232
HEIGHT
3282
16-May-2024
15:12
ALSHS
Server



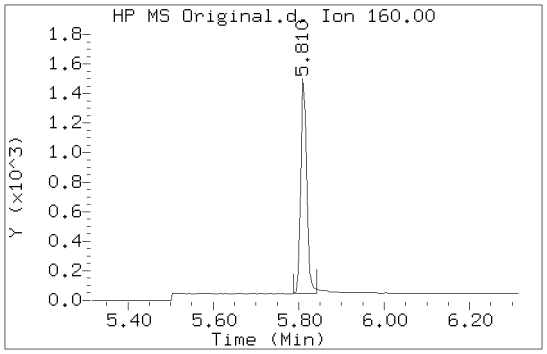
AFTER

MASS
162
AREA
3232
HEIGHT
3282
17-May-2024
13:06



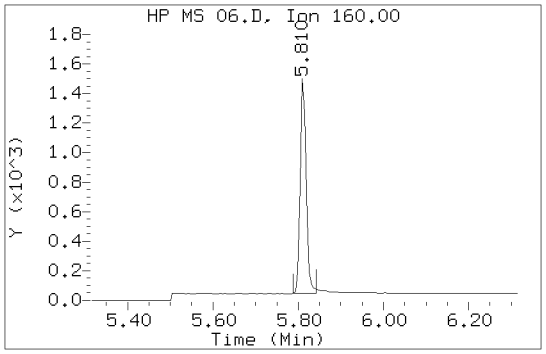
BEFORE

MASS
160
AREA
1395
HEIGHT
1454
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
160
AREA
1395
HEIGHT
1454
17-May-2024
13:06

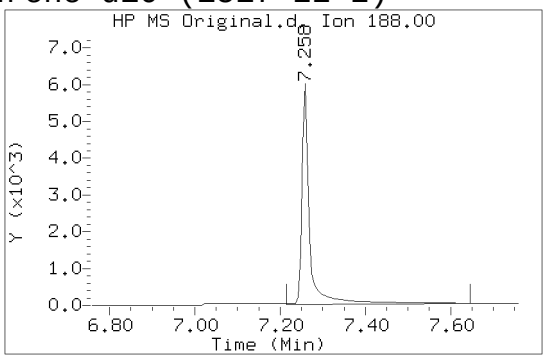


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

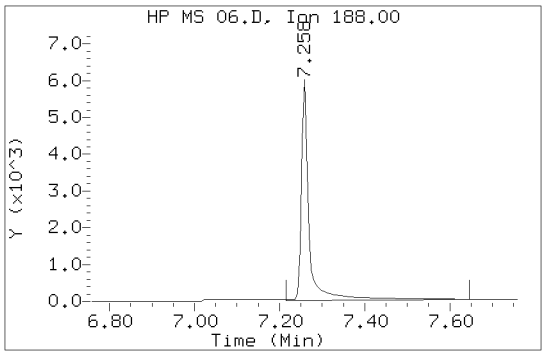
Phenanthrene-d10 (1517-22-2)

Reason Code:

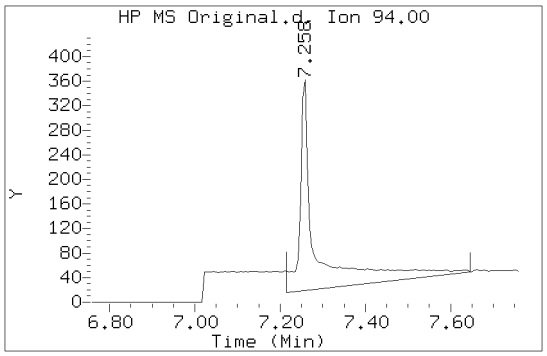
BEFORE
MASS
188
AREA
7899
HEIGHT
6006
16-May-2024
15:12
ALSHS
Server



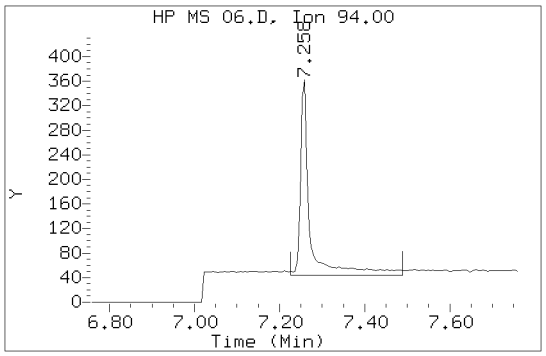
AFTER
MASS
188
AREA
7899
HEIGHT
6006
17-May-2024
13:06



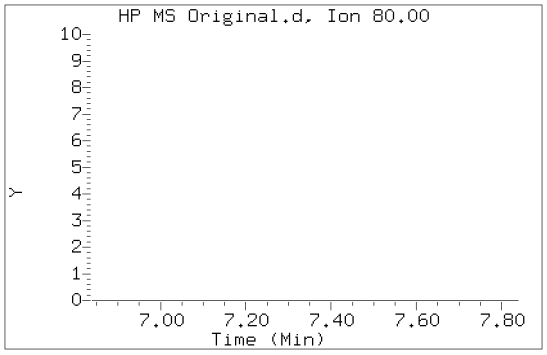
BEFORE
MASS
94
AREA
871
HEIGHT
342
16-May-2024
15:12
ALSHS
Server



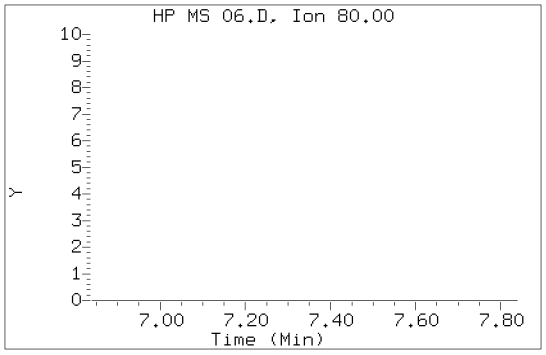
AFTER
MASS
94
AREA
499
HEIGHT
318
17-May-2024
13:06



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-May-2024
15:12
ALSHS
Server



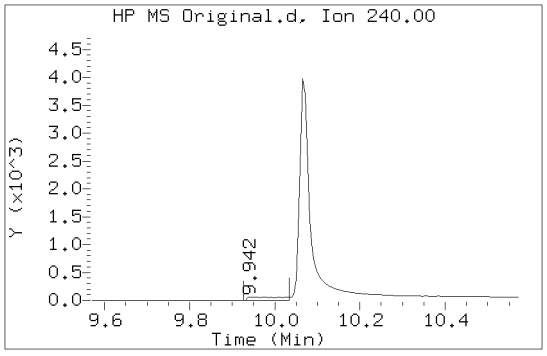
AFTER
MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:06



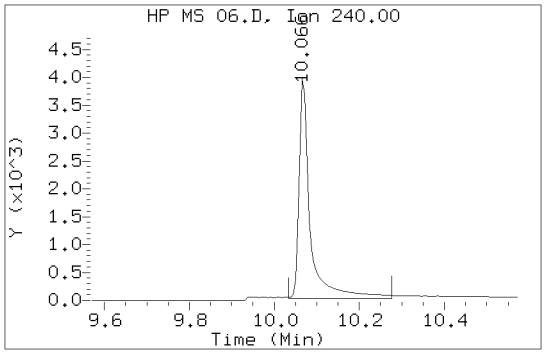
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
319
HEIGHT
53
16-May-2024
15:12
ALSHS
Server



AFTER
MASS
240
AREA
7158
HEIGHT
3941
17-May-2024
13:06

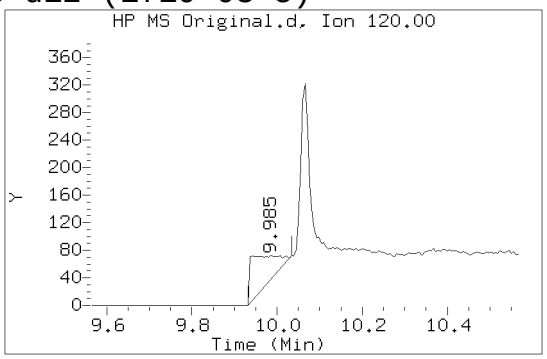


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

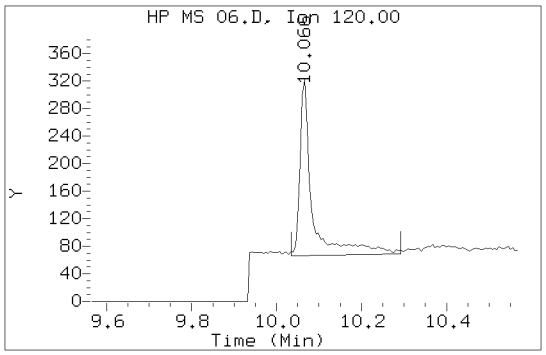
Chrysene-d12 (1719-03-5)

Reason Code:

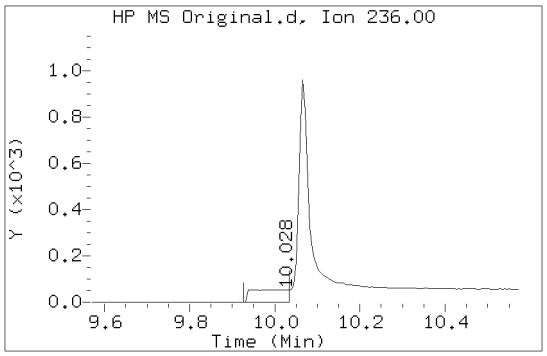
BEFORE
MASS
120
AREA
200
HEIGHT
34
16-May-2024
15:12
ALSHS
Server



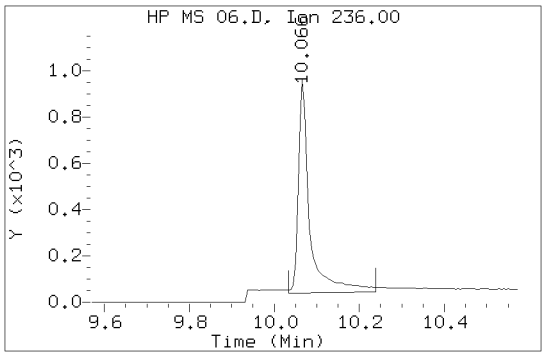
AFTER
MASS
120
AREA
516
HEIGHT
255
17-May-2024
13:06



BEFORE
MASS
236
AREA
321
HEIGHT
54
16-May-2024
15:12
ALSHS
Server



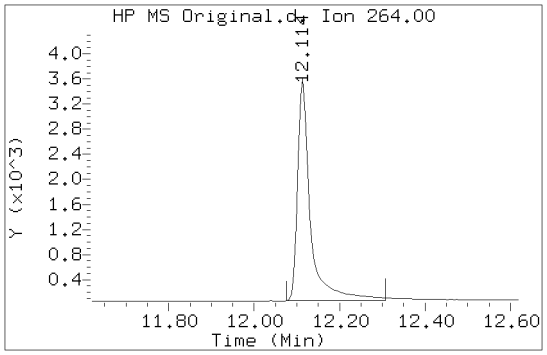
AFTER
MASS
236
AREA
1709
HEIGHT
920
17-May-2024
13:06



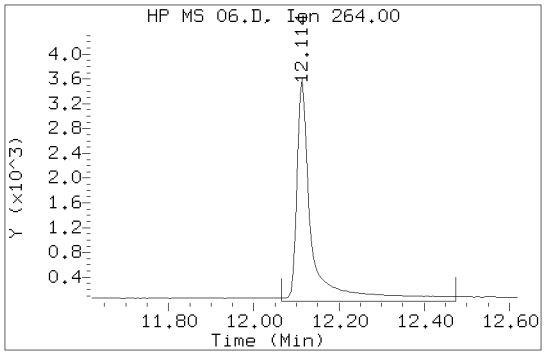
Perylene-d12 (1520-96-3)

Reason Code:

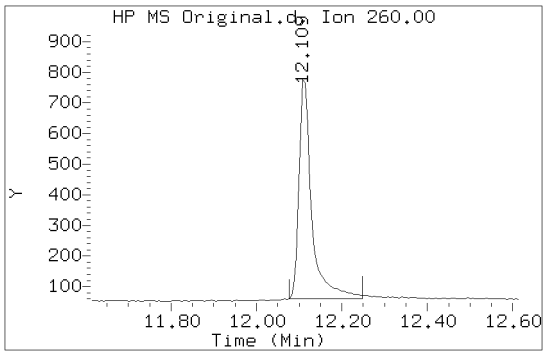
BEFORE
MASS
264
AREA
7402
HEIGHT
3535
16-May-2024
15:12
ALSHS
Server



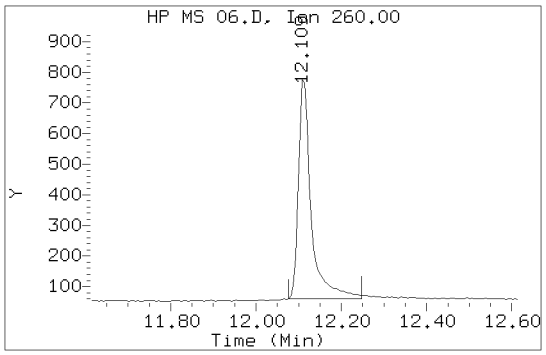
AFTER
MASS
264
AREA
8988
HEIGHT
3588
17-May-2024
13:06



BEFORE
MASS
260
AREA
1480
HEIGHT
715
16-May-2024
15:12
ALSHS
Server



AFTER
MASS
260
AREA
1480
HEIGHT
715
17-May-2024
13:06



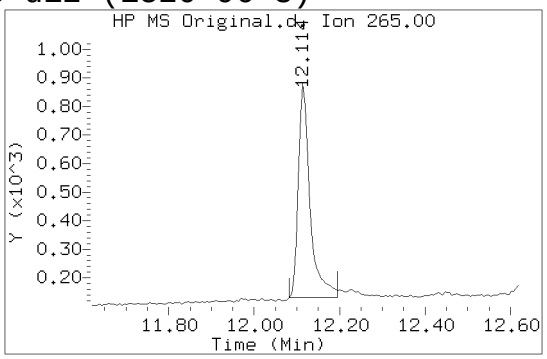
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

Perylene-d12 (1520-96-3)

Reason Code:

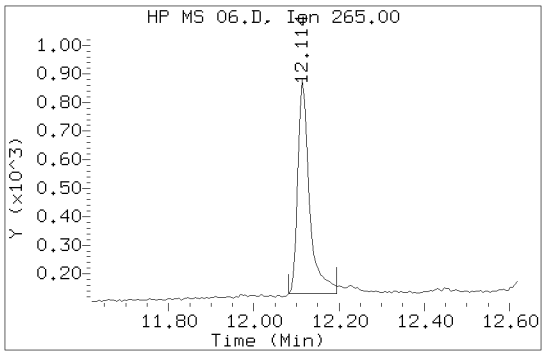
BEFORE

MASS
265
AREA
1436
HEIGHT
750
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
265
AREA
1436
HEIGHT
750
17-May-2024
13:06

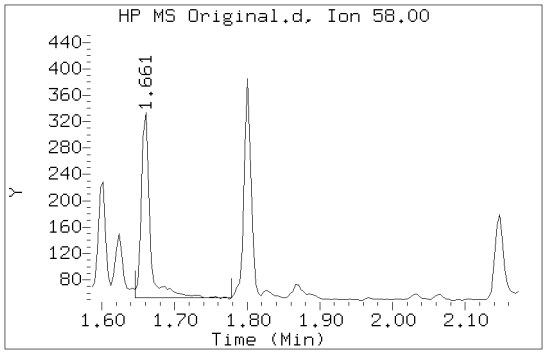


1,4-Dioxane ()

Reason Code:

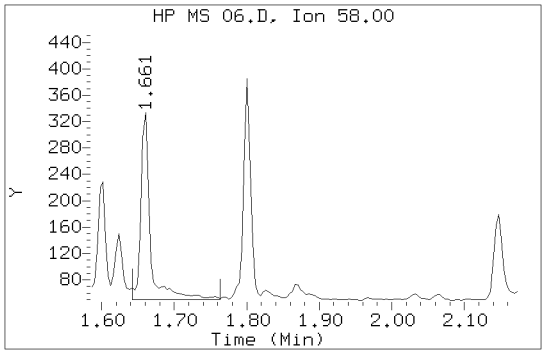
BEFORE

MASS
58
AREA
232
HEIGHT
281
16-May-2024
15:12
ALSHS
Server



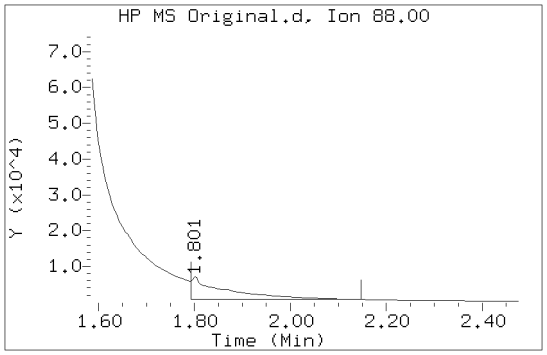
AFTER

MASS
58
AREA
258
HEIGHT
284
17-May-2024
13:06



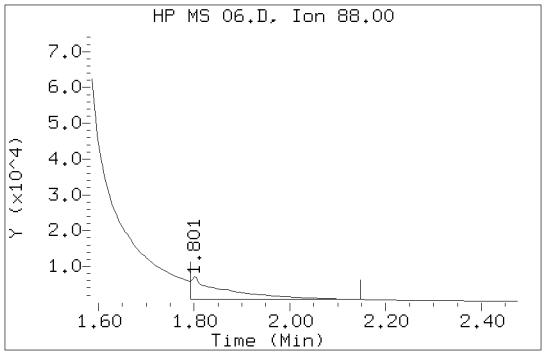
BEFORE

MASS
88
AREA
31899
HEIGHT
6359
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
88
AREA
31899
HEIGHT
6359
17-May-2024
13:06

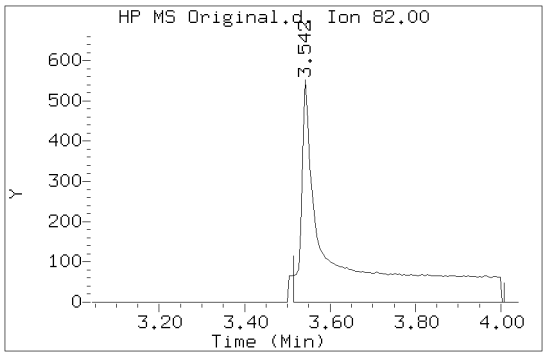


Nitrobenzene-d5 (4165-60-0)

Reason Code:

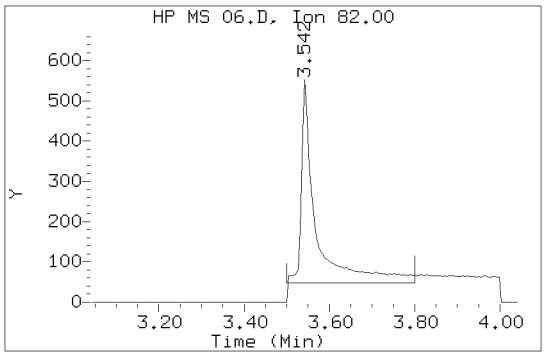
BEFORE

MASS
82
AREA
2780
HEIGHT
552
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
82
AREA
1180
HEIGHT
504
17-May-2024
13:06



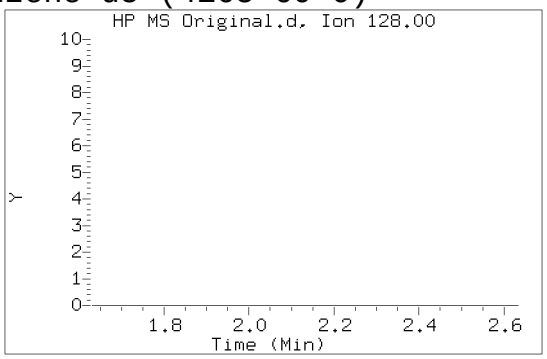
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

Nitrobenzene-d5 (4165-60-0)

Reason Code:

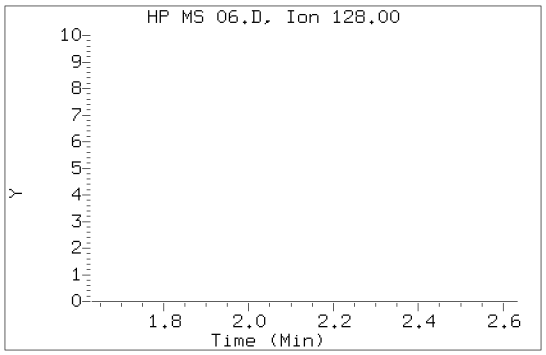
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-May-2024
15:12
ALSHS
Server



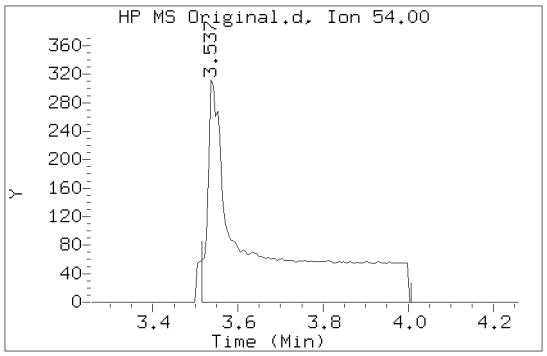
AFTER

MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:06



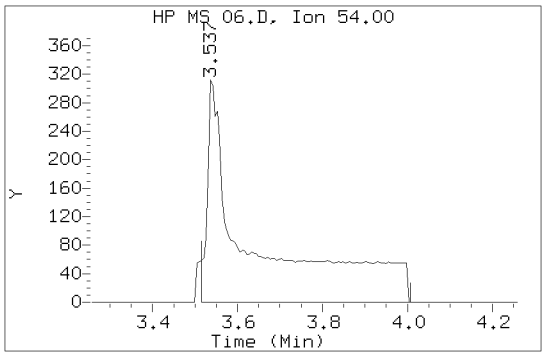
BEFORE

MASS
54
AREA
2215
HEIGHT
312
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
54
AREA
2215
HEIGHT
312
17-May-2024
13:06

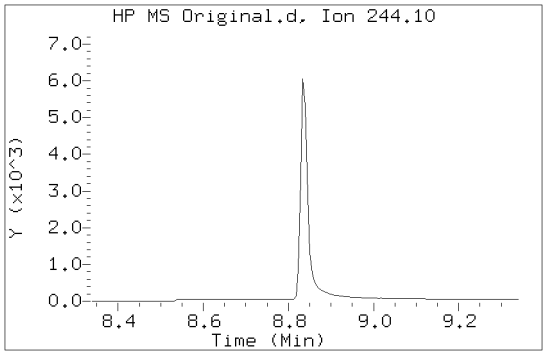


4-Terphenyl-d14 (1718-51-0)

Reason Code:

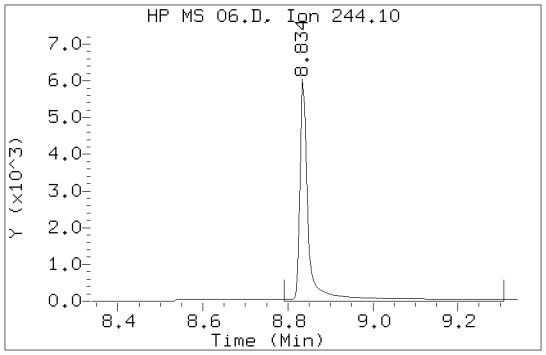
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-May-2024
15:12
ALSHS
Server



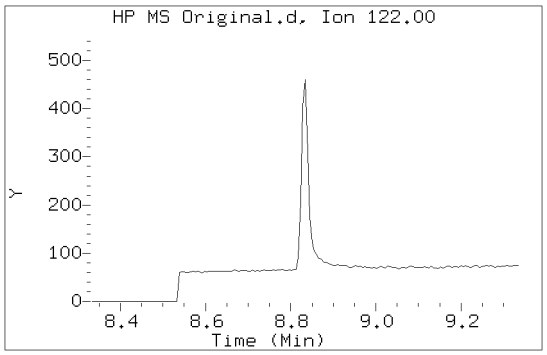
AFTER

MASS
244.1
AREA
9251
HEIGHT
6047
17-May-2024
13:06



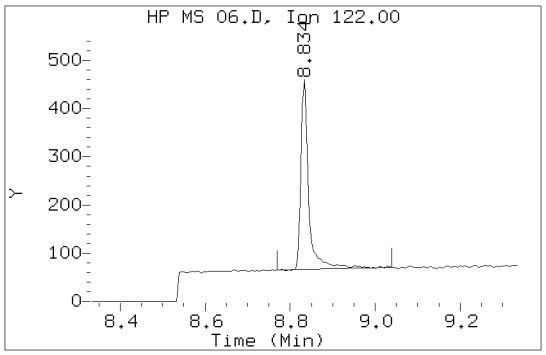
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
122
AREA
501
HEIGHT
393
17-May-2024
13:06



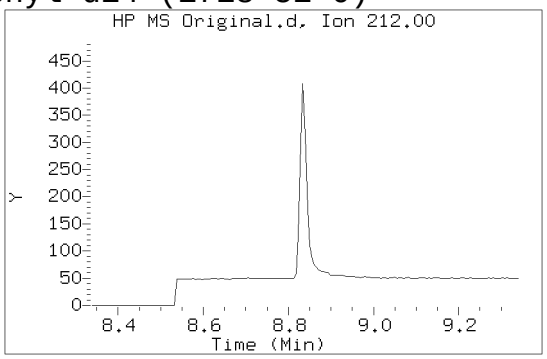
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\06.D
Inj Date : 16-MAY-2024 14:57
InstruID : SV6.i
LabSampID : LCS-211763

4-Terphenyl-d14 (1718-51-0)

Reason Code:

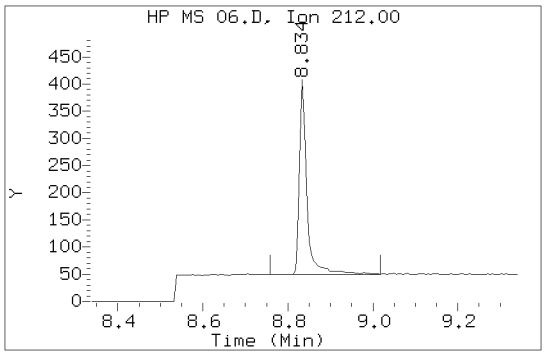
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
212
AREA
442
HEIGHT
358
17-May-2024
13:06

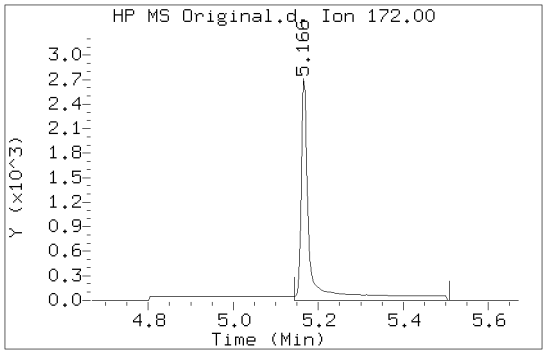


2-Fluorobiphenyl (321-60-8)

Reason Code:

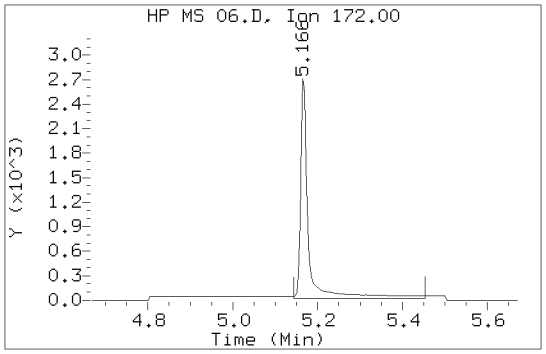
BEFORE

MASS
172
AREA
4088
HEIGHT
2711
16-May-2024
15:12
ALSHS
Server



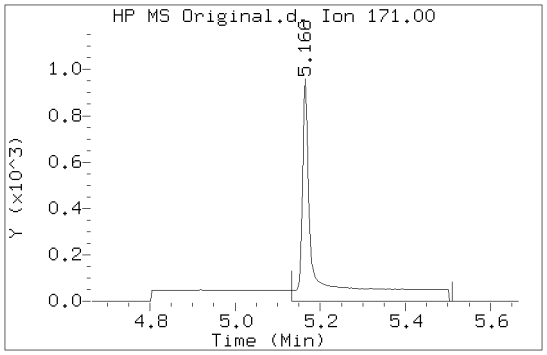
AFTER

MASS
172
AREA
3524
HEIGHT
2690
17-May-2024
13:06



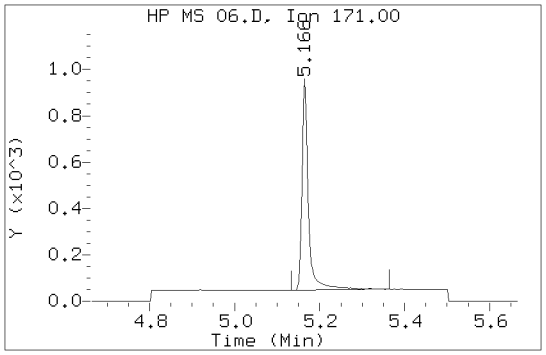
BEFORE

MASS
171
AREA
2093
HEIGHT
959
16-May-2024
15:12
ALSHS
Server



AFTER

MASS
171
AREA
965
HEIGHT
911
17-May-2024
13:06



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D
Lab Smp Id: LCSD-211763
Inj Date : 16-MAY-2024 15:15
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-211763
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti 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	3.107	3.107	(1.000)	2173	0.10000	(aM)
* 45 Naphthalene-d8	136	4.162	4.166	(1.000)	6829	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.542	3.542	(0.851)	1279	0.06239	0.06239(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	4599	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.165	5.169	(0.888)	4397	0.06254	0.06254(M)
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	8450	0.10000	(M)
* 182 Chrysene-d12	240	10.066	10.071	(1.000)	7324	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.834	8.839	(0.878)	10738	0.07197	0.07197(M)
* 198 Perylene-d12	264	12.114	12.119	(1.000)	8242	0.10000	(M)
1 1,4-Dioxane	58	1.668	1.671	(0.537)	327	0.07026	0.07026(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\240516A.b\07.D

Date : 16-MAY-2024 15:15

Client ID:

Instrument: SV6.i

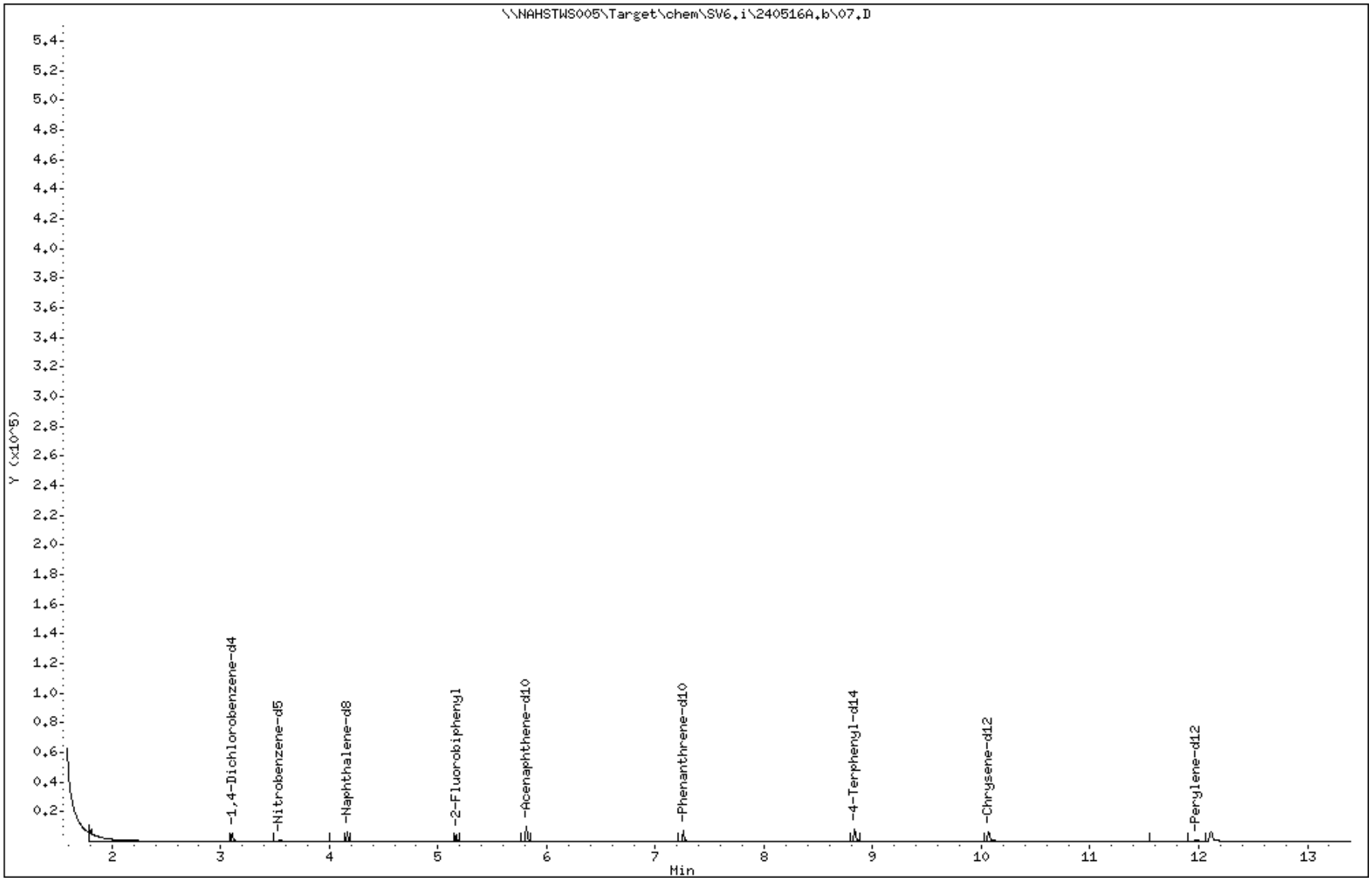
Sample Info: LCSD-211763

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D Page 2

Date : 16-MAY-2024 15:15

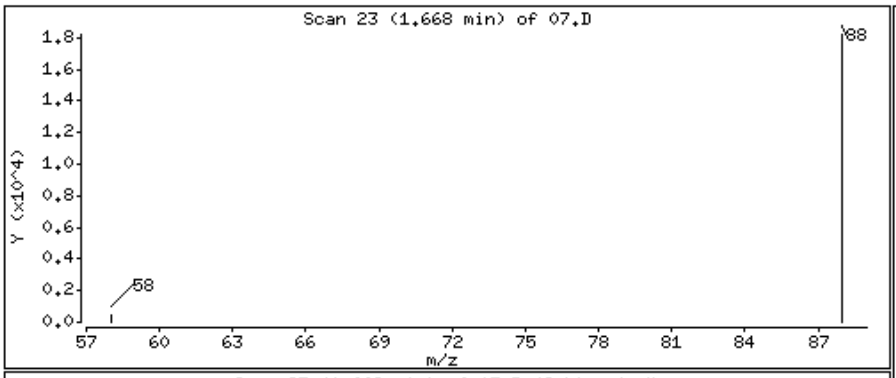
Client ID: Instrument: SV6.i

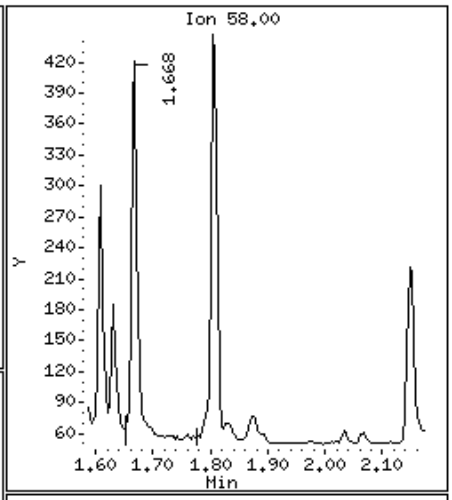
Sample Info: LCSD-211763

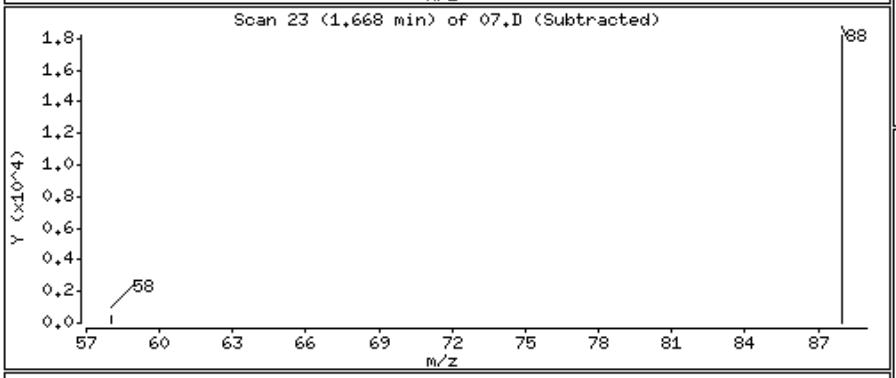
Purge Volume: 1000.0 Operator: LG

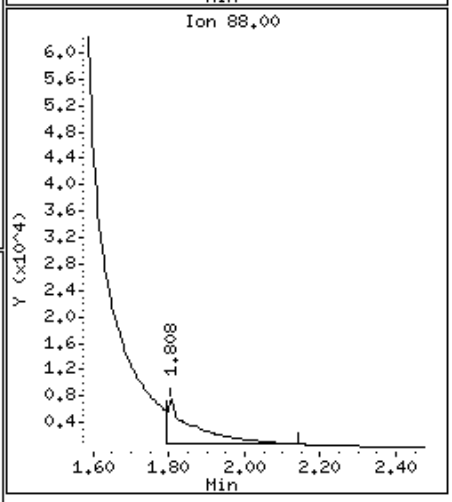
Column phase: RTX-5SIL MS Column diameter: 0.28

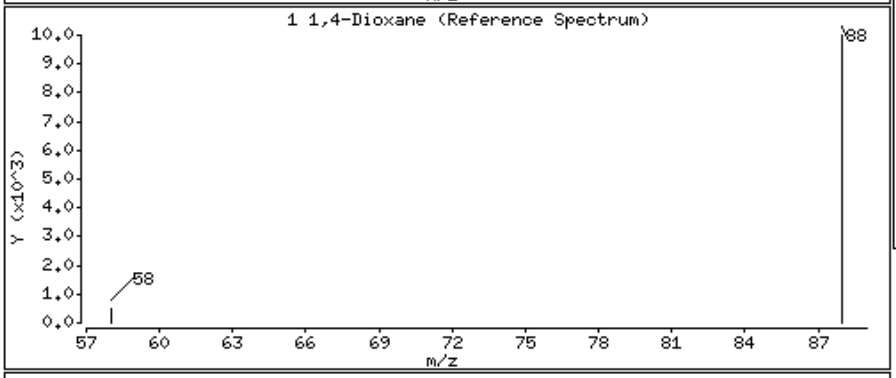
1 1,4-Dioxane Concentration: 0.07026 ug/L

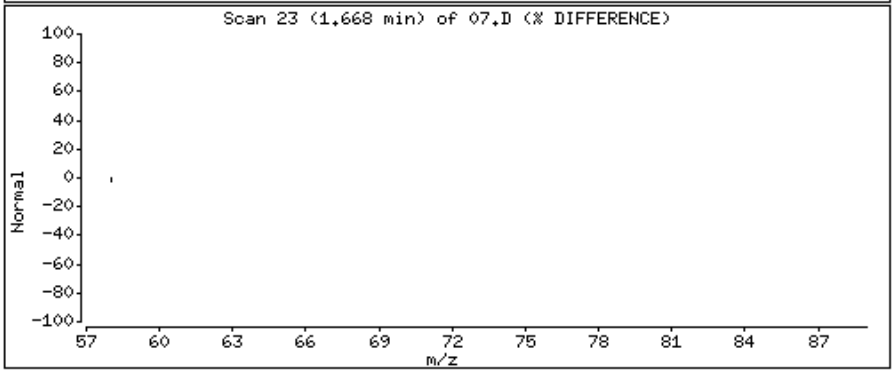










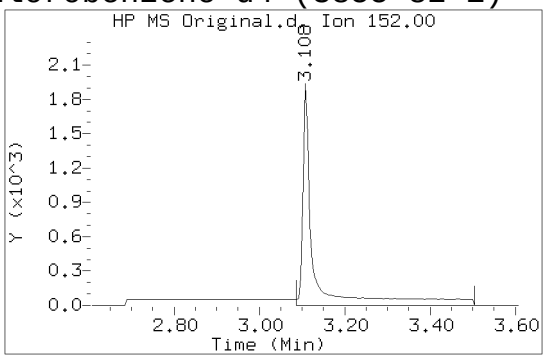


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

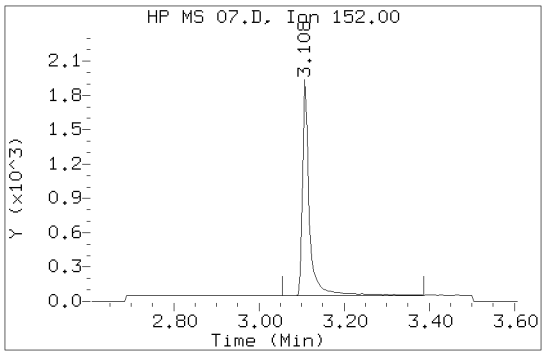
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

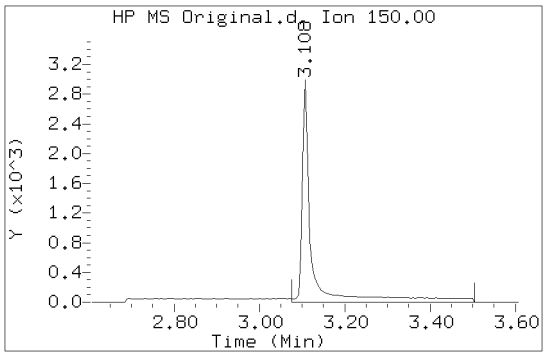
BEFORE
MASS
152
AREA
3464
HEIGHT
1938
16-May-2024
15:32
ALSHS
Server



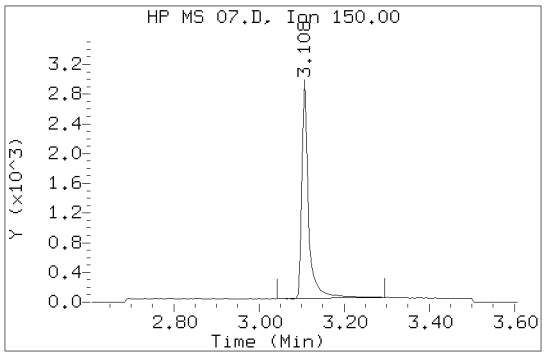
AFTER
MASS
152
AREA
2173
HEIGHT
1889
17-May-2024
13:08



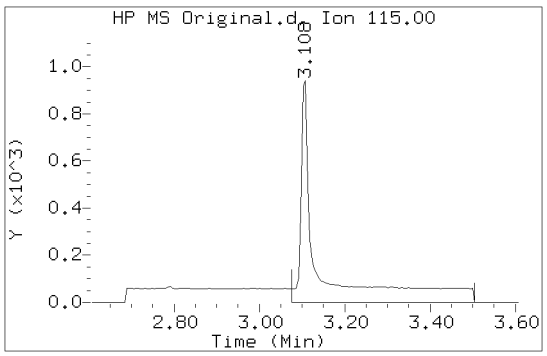
BEFORE
MASS
150
AREA
4726
HEIGHT
2991
16-May-2024
15:32
ALSHS
Server



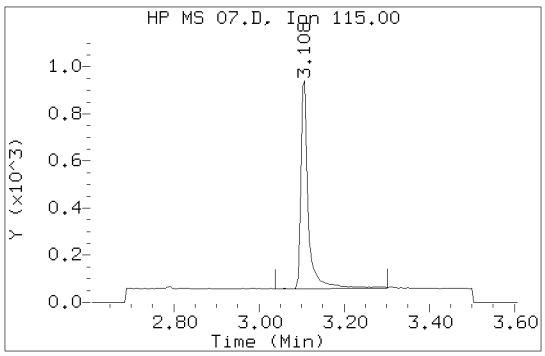
AFTER
MASS
150
AREA
3258
HEIGHT
2938
17-May-2024
13:08



BEFORE
MASS
115
AREA
2620
HEIGHT
941
16-May-2024
15:32
ALSHS
Server



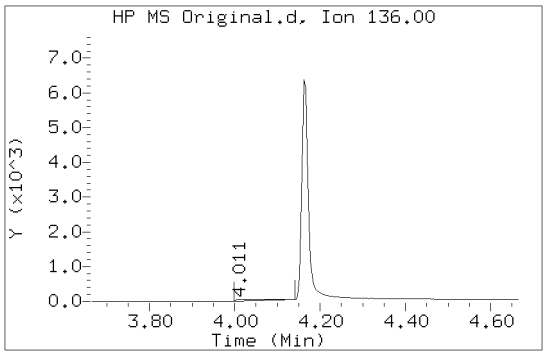
AFTER
MASS
115
AREA
1073
HEIGHT
882
17-May-2024
13:08



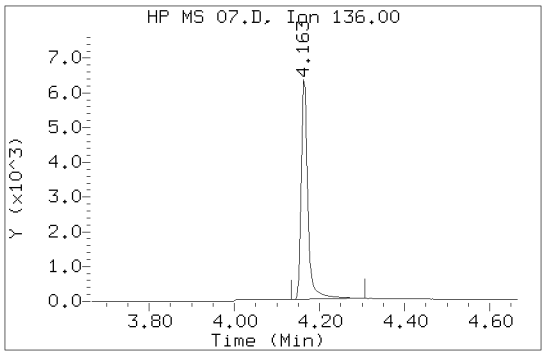
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
195
HEIGHT
44
16-May-2024
15:32
ALSHS
Server



AFTER
MASS
136
AREA
6829
HEIGHT
6324
17-May-2024
13:08



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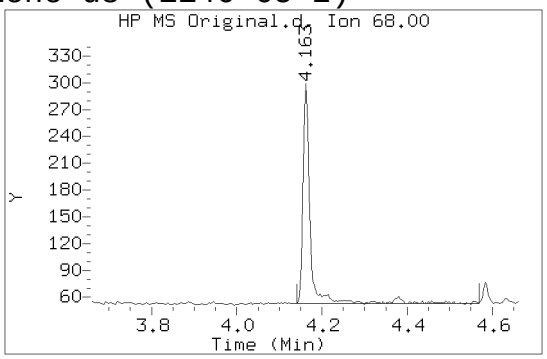
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

Naphthalene-d8 (1146-65-2)

Reason Code:

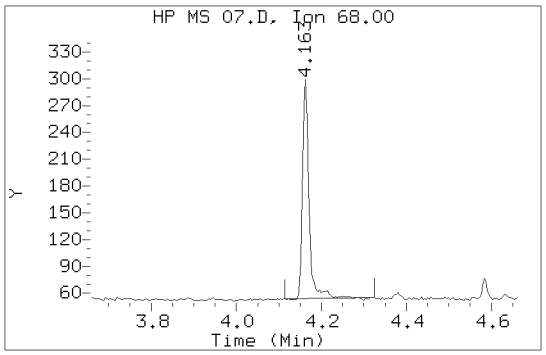
BEFORE

MASS
68
AREA
292
HEIGHT
246
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
68
AREA
253
HEIGHT
244
17-May-2024
13:08

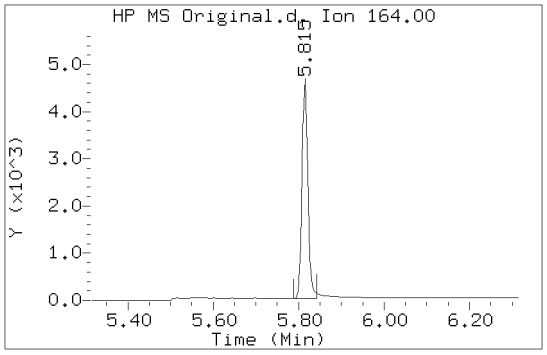


Acenaphthene-d10 (15067-26-2)

Reason Code:

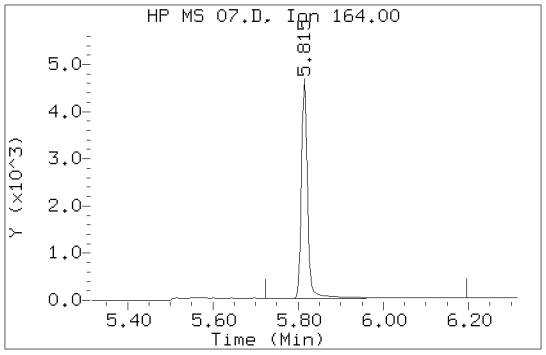
BEFORE

MASS
164
AREA
4341
HEIGHT
4653
16-May-2024
15:32
ALSHS
Server



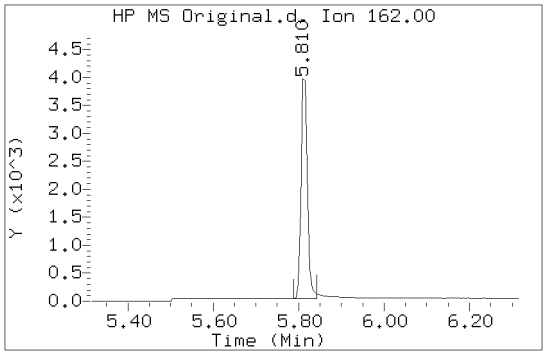
AFTER

MASS
164
AREA
4599
HEIGHT
4651
17-May-2024
13:08



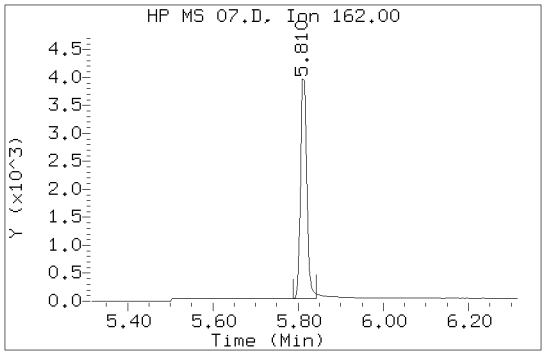
BEFORE

MASS
162
AREA
3993
HEIGHT
3925
16-May-2024
15:32
ALSHS
Server



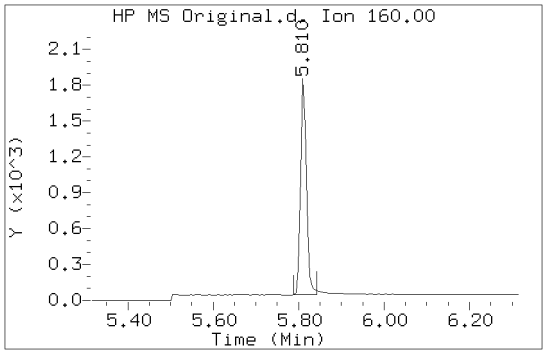
AFTER

MASS
162
AREA
3993
HEIGHT
3925
17-May-2024
13:08



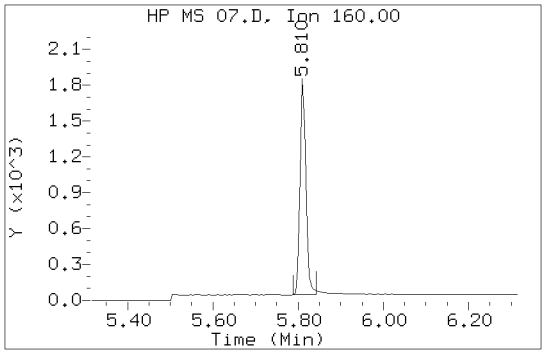
BEFORE

MASS
160
AREA
1705
HEIGHT
1808
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
160
AREA
1705
HEIGHT
1808
17-May-2024
13:08



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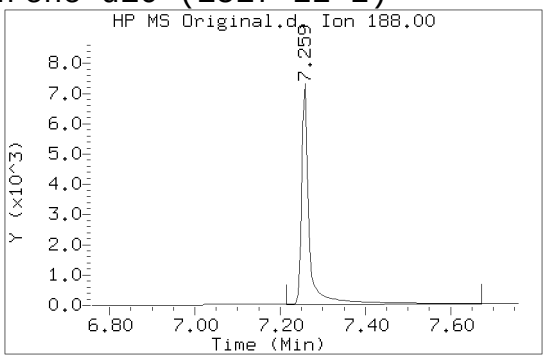
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

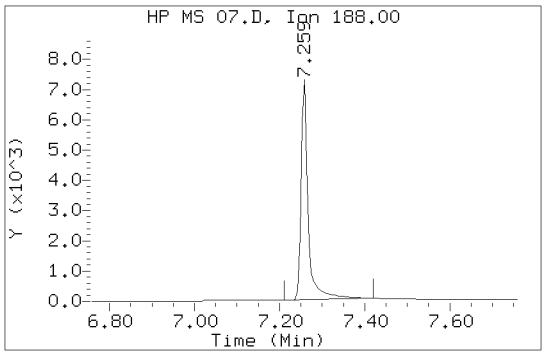
Phenanthrene-d10 (1517-22-2)

Reason Code:

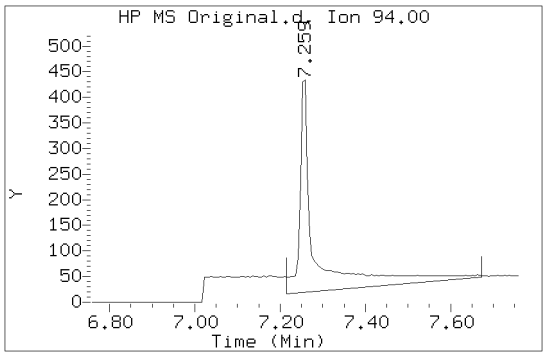
BEFORE
MASS
188
AREA
9606
HEIGHT
7305
16-May-2024
15:32
ALSHS
Server



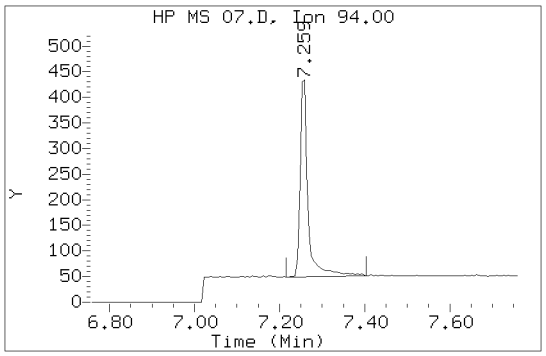
AFTER
MASS
188
AREA
8450
HEIGHT
7268
17-May-2024
13:08



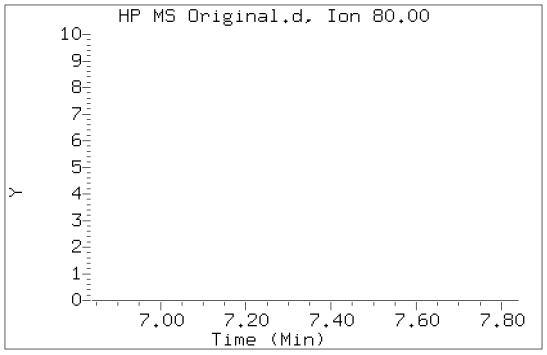
BEFORE
MASS
94
AREA
1016
HEIGHT
414
16-May-2024
15:32
ALSHS
Server



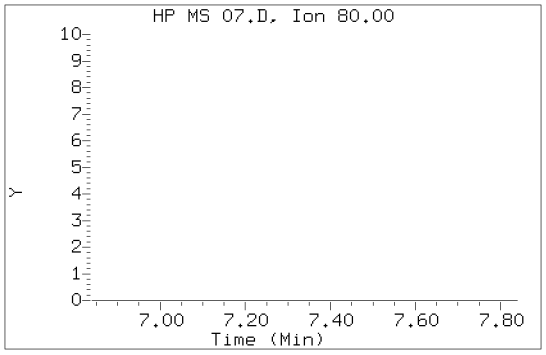
AFTER
MASS
94
AREA
500
HEIGHT
384
17-May-2024
13:08



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-May-2024
15:32
ALSHS
Server



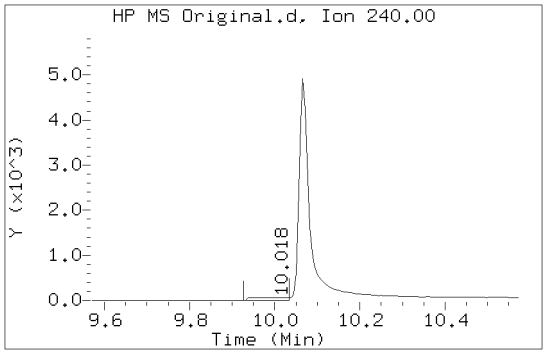
AFTER
MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:08



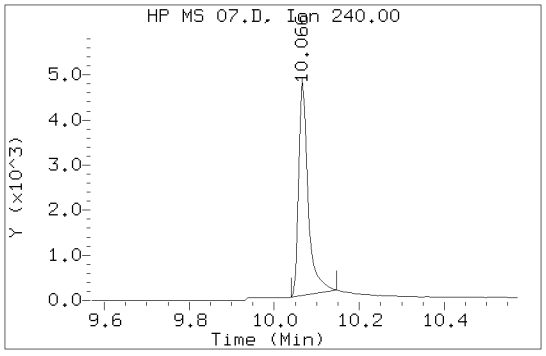
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
322
HEIGHT
55
16-May-2024
15:32
ALSHS
Server



AFTER
MASS
240
AREA
7324
HEIGHT
4812
17-May-2024
13:08



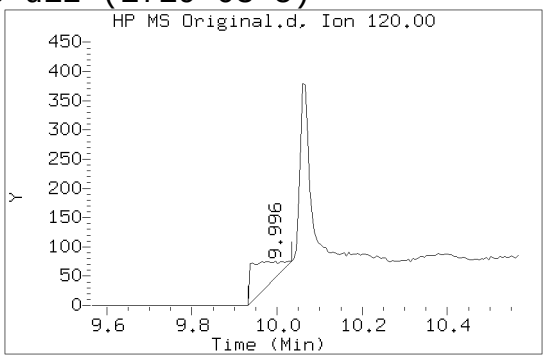
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

Chrysene-d12 (1719-03-5)

Reason Code:

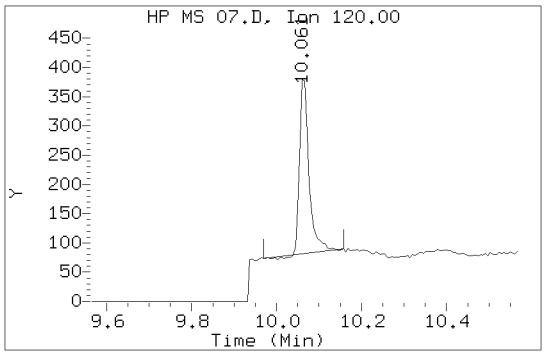
BEFORE

MASS
120
AREA
204
HEIGHT
28
16-May-2024
15:32
ALSHS
Server



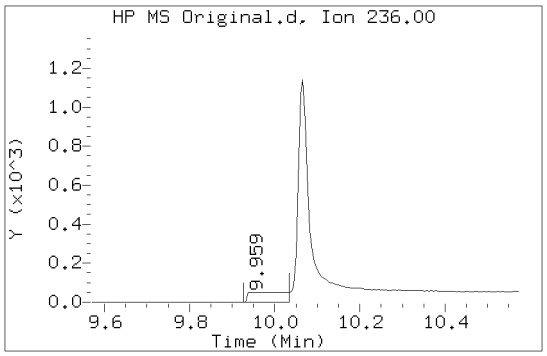
AFTER

MASS
120
AREA
449
HEIGHT
297
17-May-2024
13:08



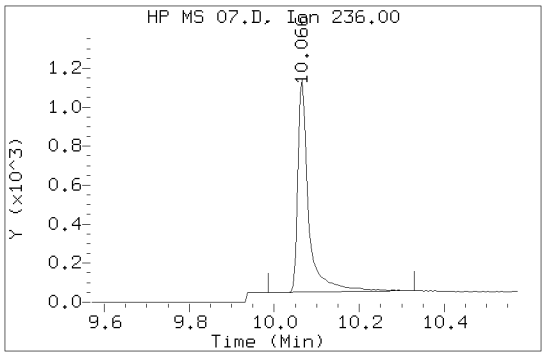
BEFORE

MASS
236
AREA
306
HEIGHT
51
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
236
AREA
1924
HEIGHT
1087
17-May-2024
13:08

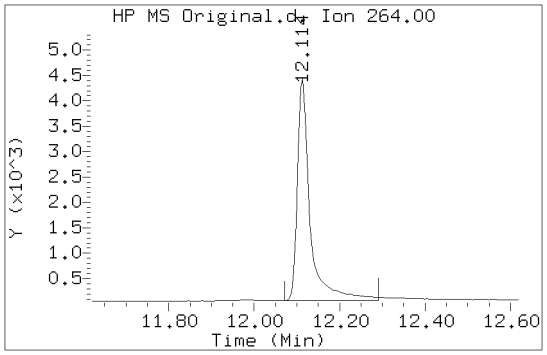


Perylene-d12 (1520-96-3)

Reason Code:

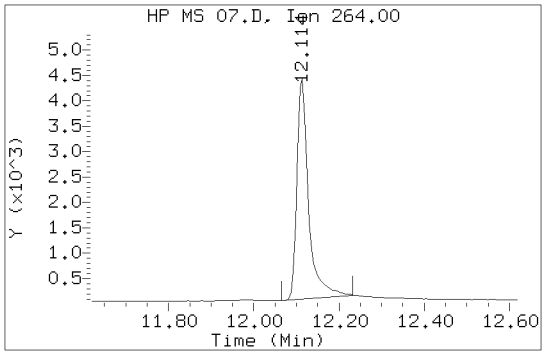
BEFORE

MASS
264
AREA
9093
HEIGHT
4366
16-May-2024
15:32
ALSHS
Server



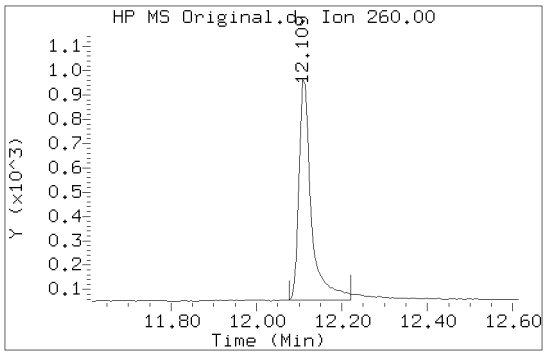
AFTER

MASS
264
AREA
8242
HEIGHT
4335
17-May-2024
13:08



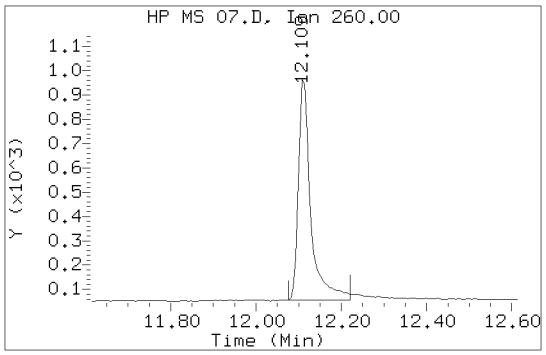
BEFORE

MASS
260
AREA
1822
HEIGHT
906
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
260
AREA
1822
HEIGHT
906
17-May-2024
13:08



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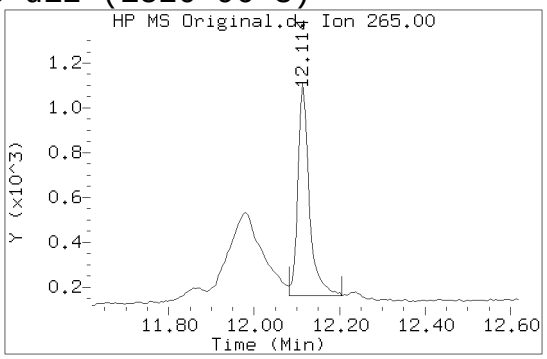
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

Perylene-d12 (1520-96-3)

Reason Code:

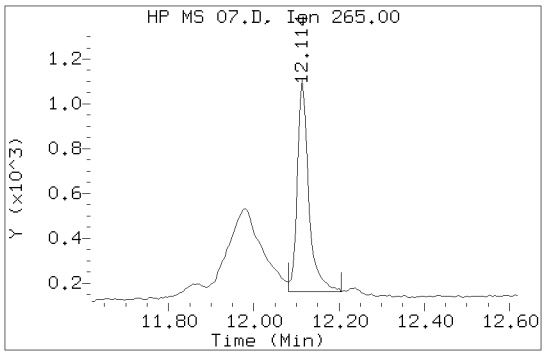
BEFORE

MASS
265
AREA
1750
HEIGHT
945
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
265
AREA
1750
HEIGHT
945
17-May-2024
13:08

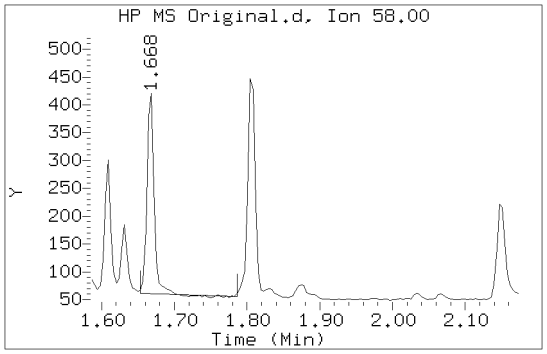


1,4-Dioxane ()

Reason Code:

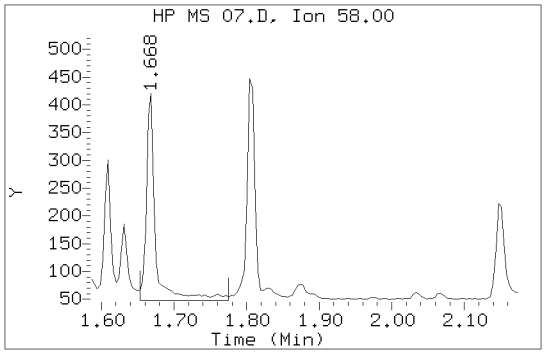
BEFORE

MASS
58
AREA
244
HEIGHT
359
16-May-2024
15:32
ALSHS
Server



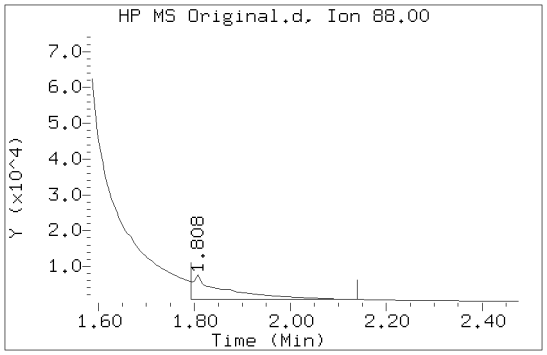
AFTER

MASS
58
AREA
327
HEIGHT
373
17-May-2024
13:08



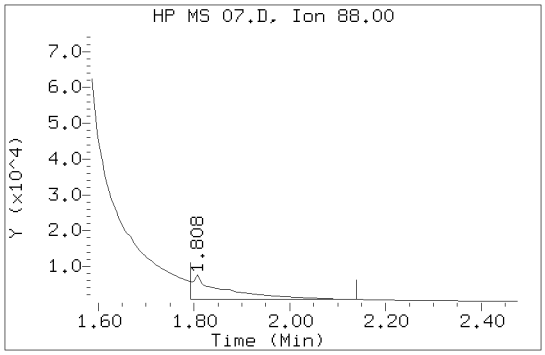
BEFORE

MASS
88
AREA
33012
HEIGHT
6868
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
88
AREA
33012
HEIGHT
6868
17-May-2024
13:08

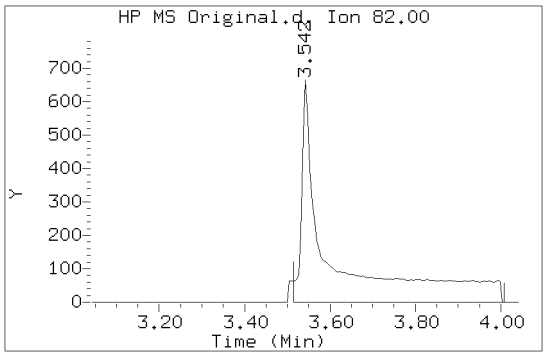


Nitrobenzene-d5 (4165-60-0)

Reason Code:

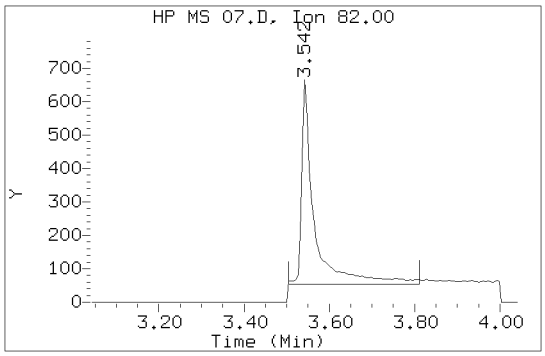
BEFORE

MASS
82
AREA
2941
HEIGHT
665
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
82
AREA
1279
HEIGHT
611
17-May-2024
13:08

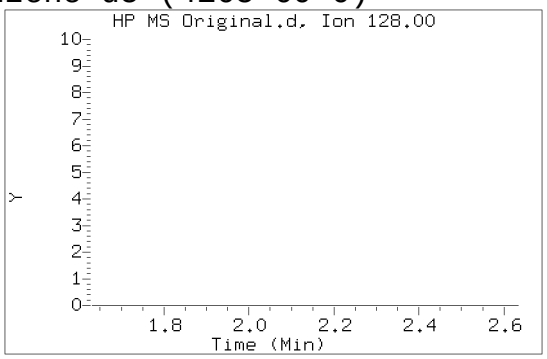


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

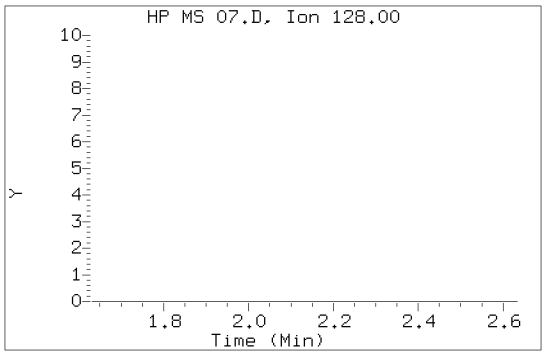
Nitrobenzene-d5 (4165-60-0)

Reason Code:

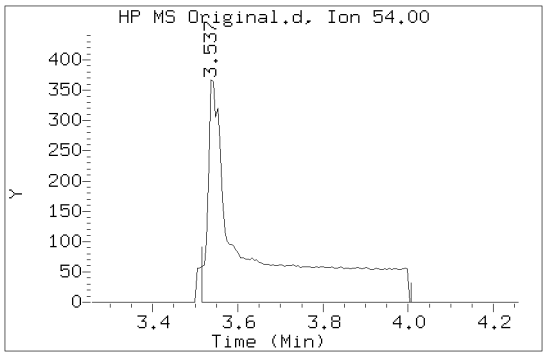
BEFORE
MASS
128
AREA
0
HEIGHT
0
16-May-2024
15:32
ALSHS
Server



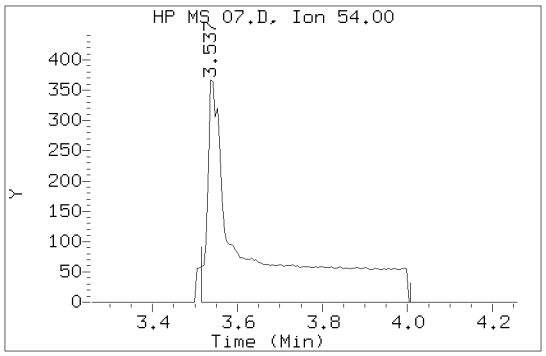
AFTER
MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:08



BEFORE
MASS
54
AREA
2335
HEIGHT
367
16-May-2024
15:32
ALSHS
Server



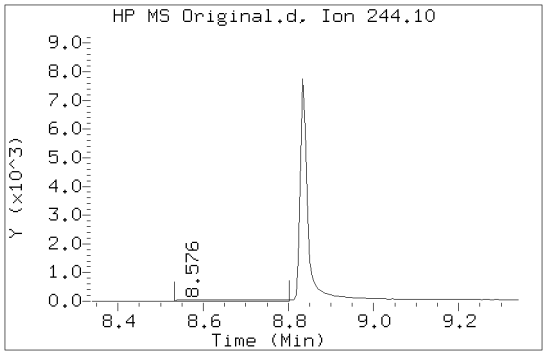
AFTER
MASS
54
AREA
2335
HEIGHT
367
17-May-2024
13:08



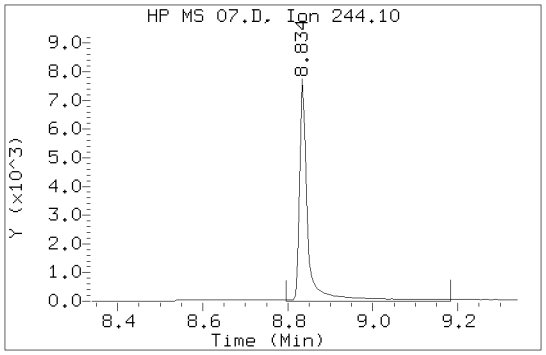
4-Terphenyl-d14 (1718-51-0)

Reason Code:

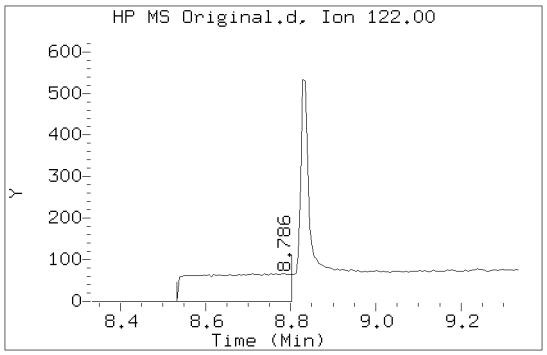
BEFORE
MASS
244.1
AREA
749
HEIGHT
47
16-May-2024
15:32
ALSHS
Server



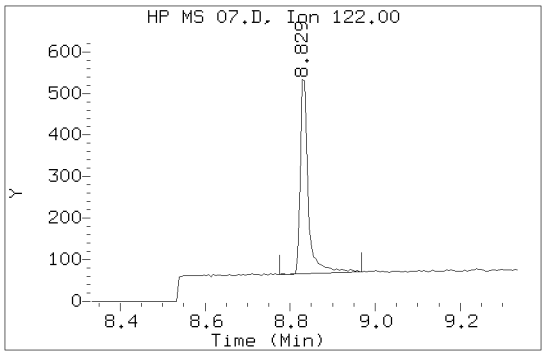
AFTER
MASS
244.1
AREA
10738
HEIGHT
7749
17-May-2024
13:08



BEFORE
MASS
122
AREA
1019
HEIGHT
67
16-May-2024
15:32
ALSHS
Server



AFTER
MASS
122
AREA
601
HEIGHT
466
17-May-2024
13:08



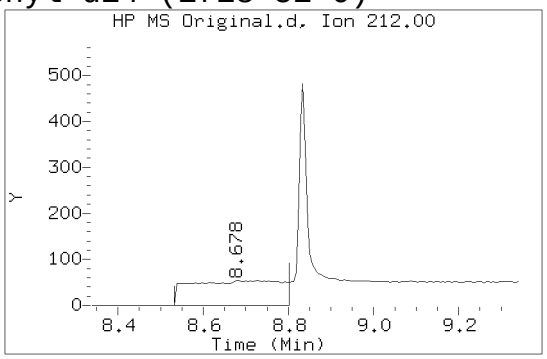
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\07.D
Inj Date : 16-MAY-2024 15:15
InstruID : SV6.i
LabSampID : LCSD-211763

4-Terphenyl-d14 (1718-51-0)

Reason Code:

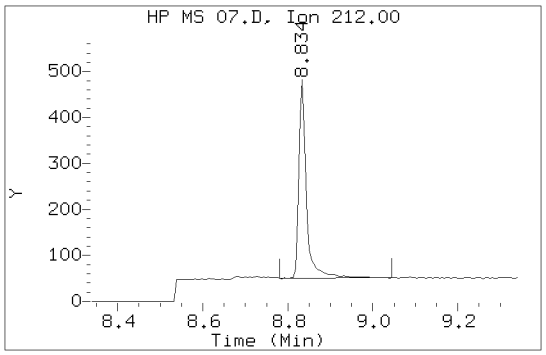
BEFORE

MASS
212
AREA
807
HEIGHT
54
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
212
AREA
535
HEIGHT
431
17-May-2024
13:08

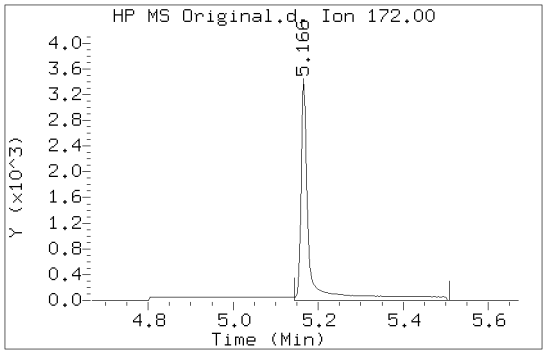


2-Fluorobiphenyl (321-60-8)

Reason Code:

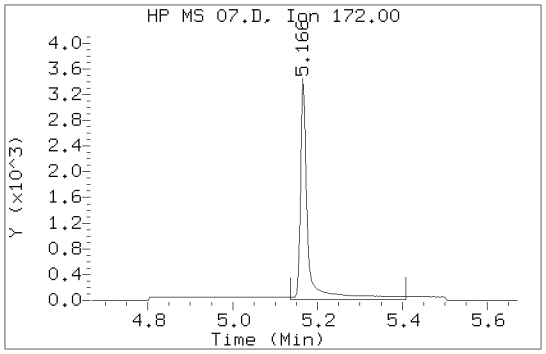
BEFORE

MASS
172
AREA
4790
HEIGHT
3447
16-May-2024
15:32
ALSHS
Server



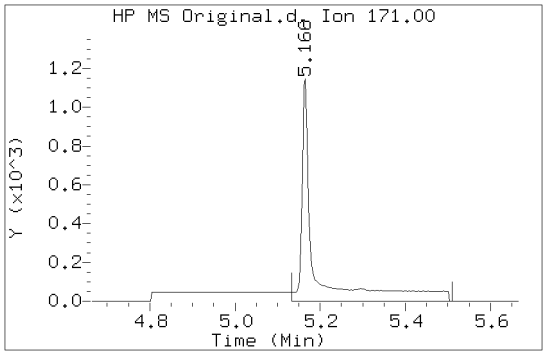
AFTER

MASS
172
AREA
4397
HEIGHT
3442
17-May-2024
13:08



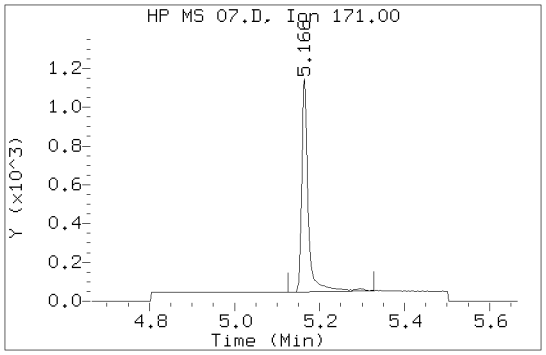
BEFORE

MASS
171
AREA
2336
HEIGHT
1146
16-May-2024
15:32
ALSHS
Server



AFTER

MASS
171
AREA
1182
HEIGHT
1097
17-May-2024
13:08



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\09.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 16-MAY-2024 15:50
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 19-Jun-2024 14:09 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9 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)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.112	3.112	(1.000)	3982	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.166	4.166	(1.000)	8267	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.542	3.542	(0.850)	1883	0.08000	0.07587(QM)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	5560	0.10000	
$ 69 2-Fluorobiphenyl	172	5.165	5.165	(0.888)	6723	0.08000	0.07910
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	12559	0.10000	
* 182 Chrysene-d12	240	10.066	10.066	(1.000)	10630	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.834	8.834	(0.878)	15987	0.08000	0.07382(M)
* 198 Perylene-d12	264	12.114	12.114	(1.000)	11371	0.10000	
1 1,4-Dioxane	58	1.690	1.690	(0.543)	766	0.08000	0.08981

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\240516A.b\09.D

Date : 16-MAY-2024 15:50

Client ID: 14DX-0.08

Instrument: SV6.i

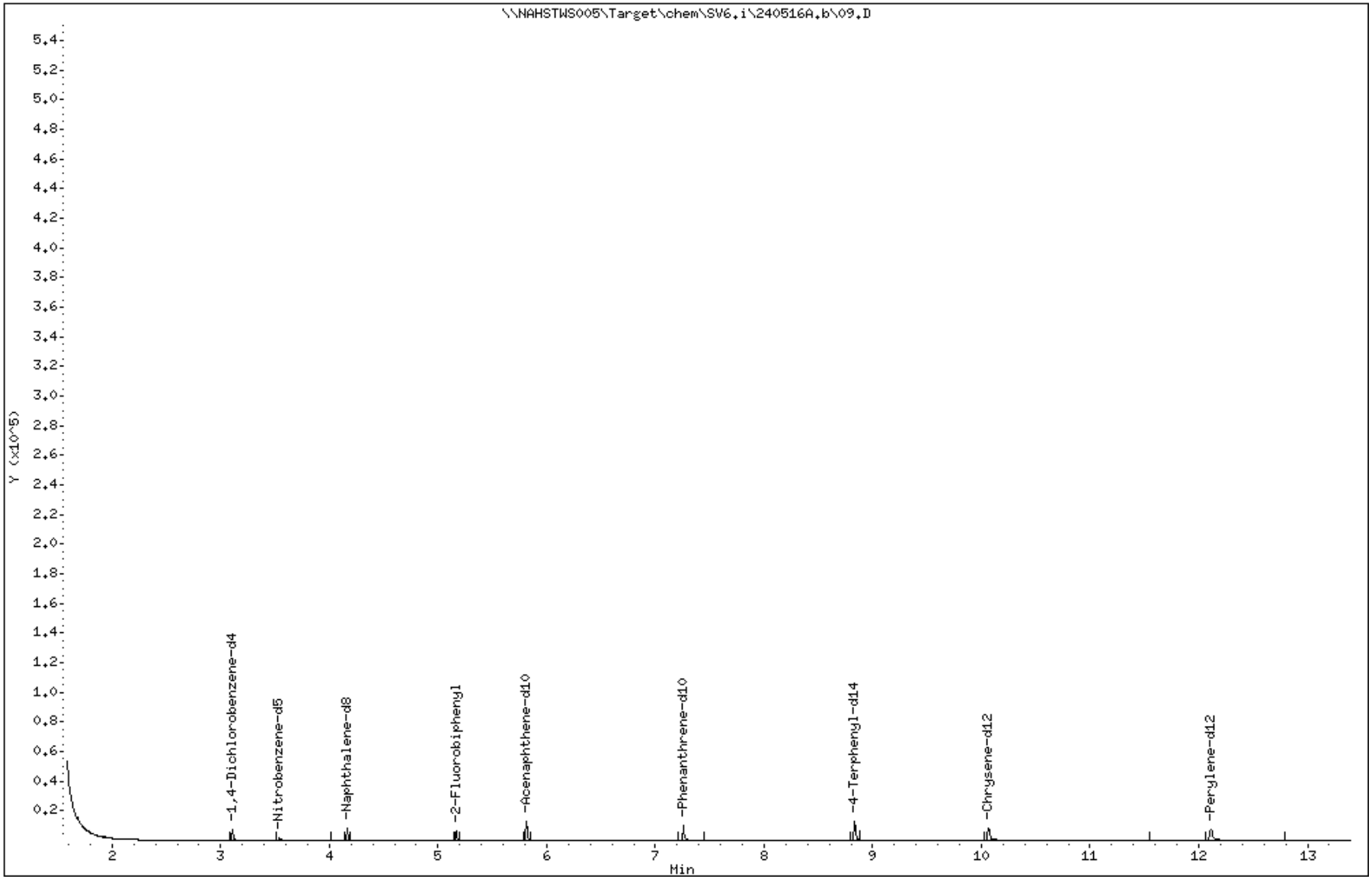
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



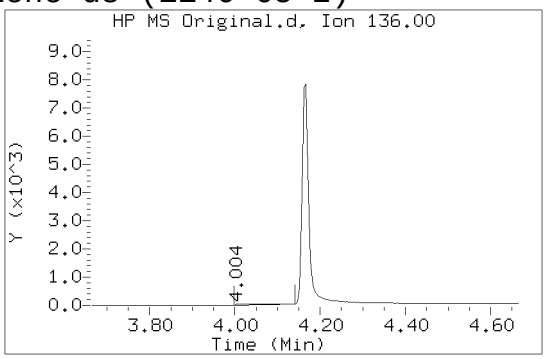
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\09.D
Inj Date : 16-MAY-2024 15:50
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

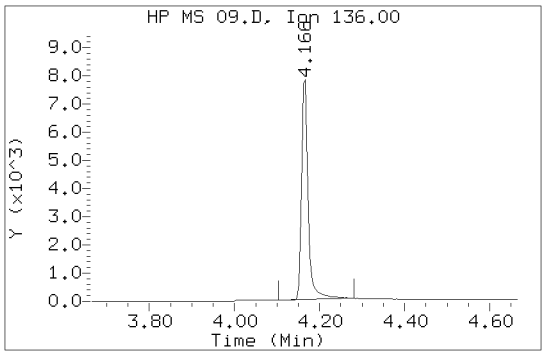
BEFORE

MASS
136
AREA
194
HEIGHT
46
16-May-2024
16:04
ALSHS
Server



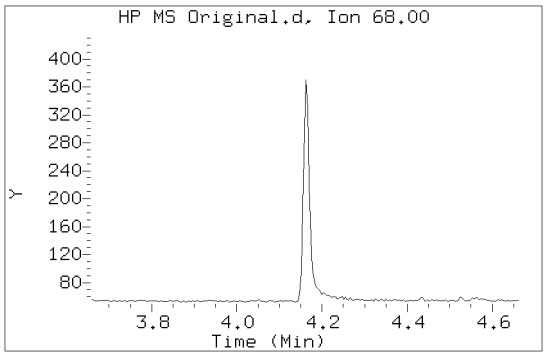
AFTER

MASS
136
AREA
8267
HEIGHT
7793
19-Jun-2024
14:09



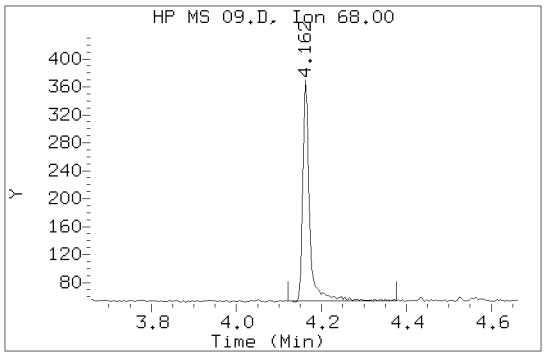
BEFORE

MASS
68
AREA
0
HEIGHT
0
16-May-2024
16:04
ALSHS
Server



AFTER

MASS
68
AREA
346
HEIGHT
316
19-Jun-2024
14:09

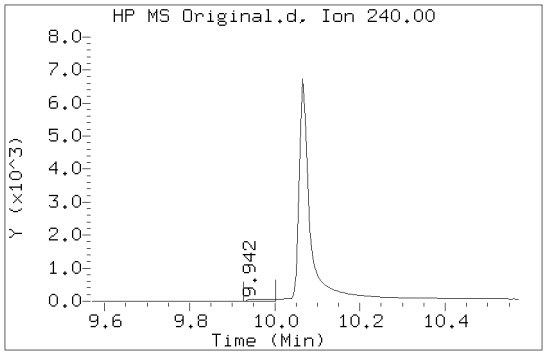


Chrysene-d12 (1719-03-5)

Reason Code:

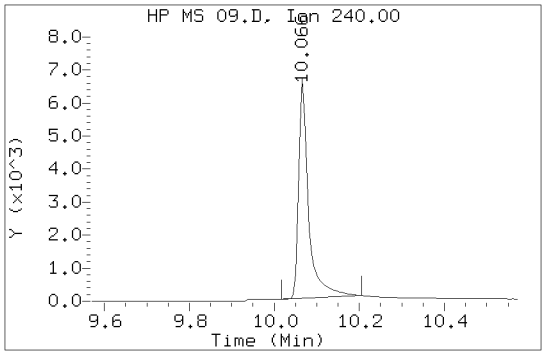
BEFORE

MASS
240
AREA
225
HEIGHT
55
16-May-2024
16:04
ALSHS
Server



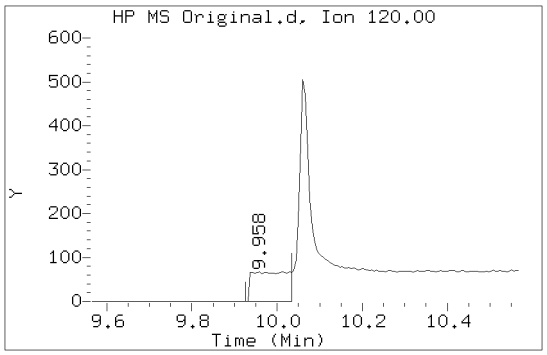
AFTER

MASS
240
AREA
10630
HEIGHT
6635
19-Jun-2024
14:09



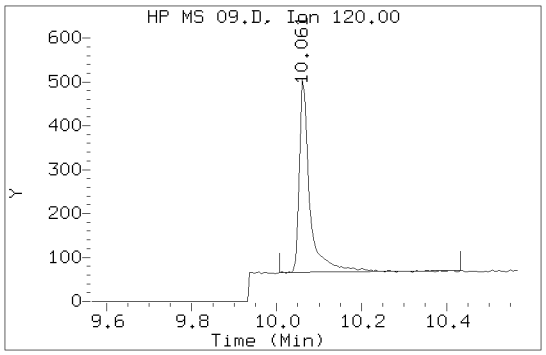
BEFORE

MASS
120
AREA
398
HEIGHT
67
16-May-2024
16:04
ALSHS
Server



AFTER

MASS
120
AREA
745
HEIGHT
439
19-Jun-2024
14:09



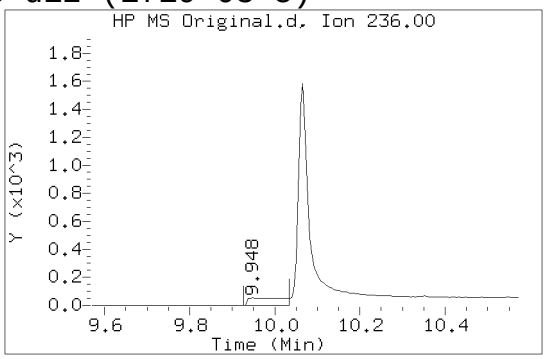
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\09.D
Inj Date : 16-MAY-2024 15:50
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

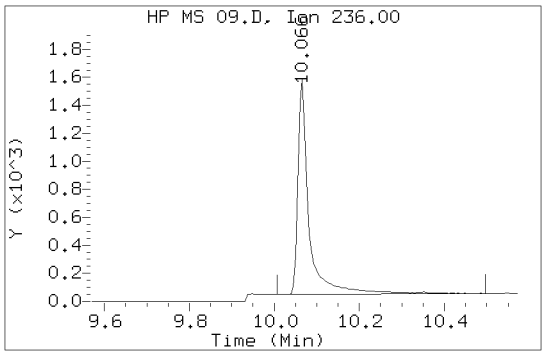
BEFORE

MASS
236
AREA
313
HEIGHT
53
16-May-2024
16:04
ALSHS
Server



AFTER

MASS
236
AREA
2797
HEIGHT
1532
19-Jun-2024
14:09

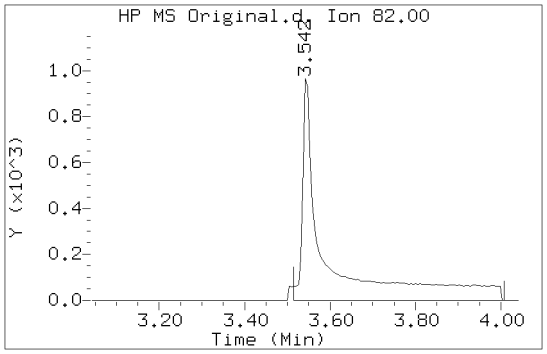


Nitrobenzene-d5 (4165-60-0)

Reason Code:

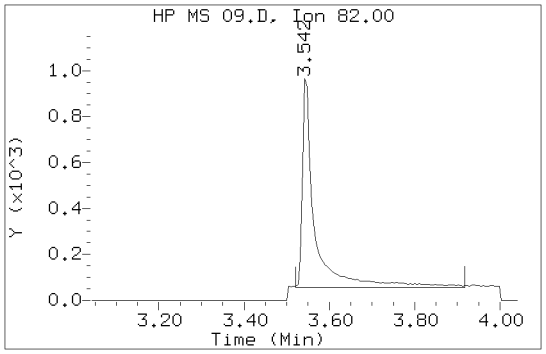
BEFORE

MASS
82
AREA
3546
HEIGHT
965
16-May-2024
16:04
ALSHS
Server



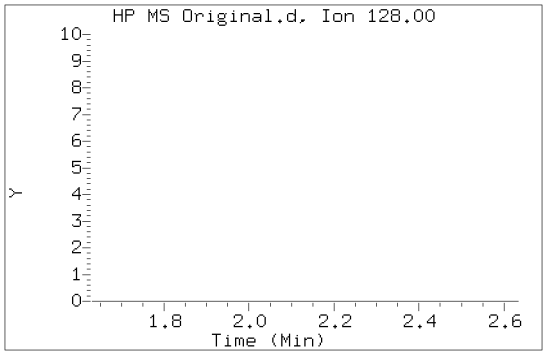
AFTER

MASS
82
AREA
1883
HEIGHT
909
19-Jun-2024
14:09



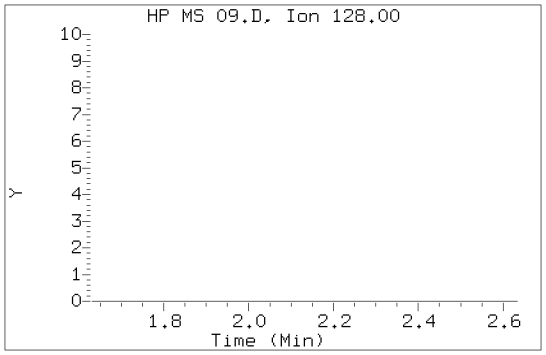
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-May-2024
16:04
ALSHS
Server



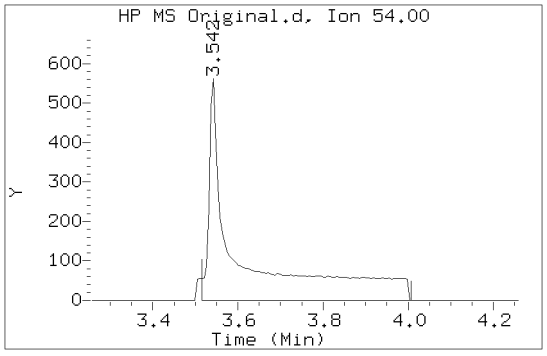
AFTER

MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
14:09



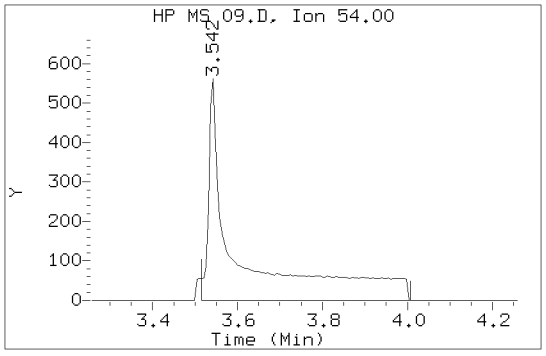
BEFORE

MASS
54
AREA
2553
HEIGHT
562
16-May-2024
16:04
ALSHS
Server



AFTER

MASS
54
AREA
2553
HEIGHT
562
19-Jun-2024
14:09

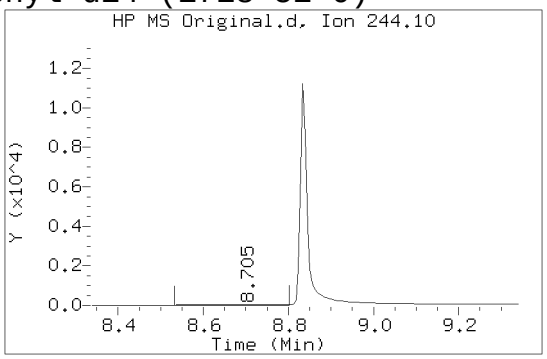


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\09.D
Inj Date : 16-MAY-2024 15:50
InstruID : SV6.i
LabSampID : 14DX-0.08

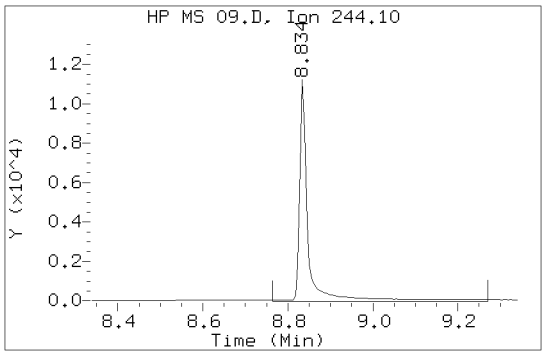
4-Terphenyl-d14 (1718-51-0)

Reason Code:

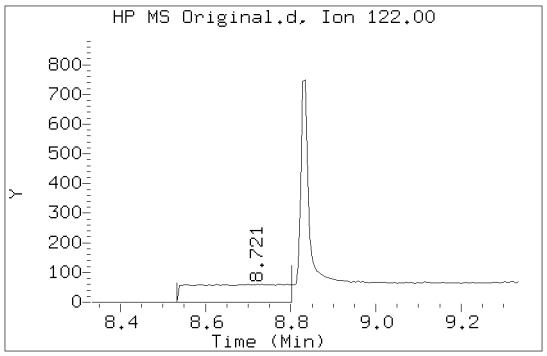
BEFORE
MASS
244.1
AREA
751
HEIGHT
48
16-May-2024
16:04
ALSHS
Server



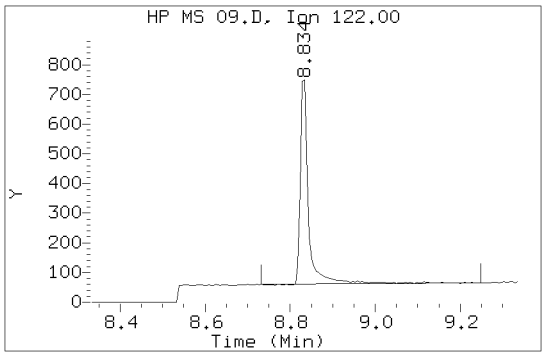
AFTER
MASS
244.1
AREA
15987
HEIGHT
11244
19-Jun-2024
14:09



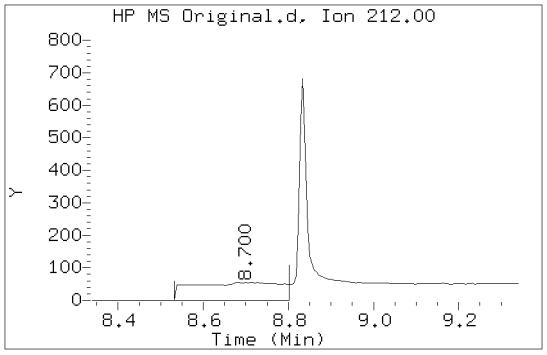
BEFORE
MASS
122
AREA
939
HEIGHT
61
16-May-2024
16:04
ALSHS
Server



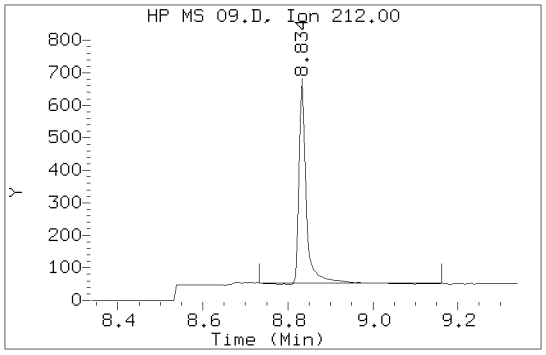
AFTER
MASS
122
AREA
906
HEIGHT
687
19-Jun-2024
14:09



BEFORE
MASS
212
AREA
808
HEIGHT
56
16-May-2024
16:04
ALSHS
Server



AFTER
MASS
212
AREA
712
HEIGHT
629
19-Jun-2024
14:09



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D Page 1
Report Date: 17-May-2024 13:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Lab Smp Id: MBLK-211587
Inj Date : 16-MAY-2024 16:25
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-211587
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.069	3.107	(1.000)	2996	0.10000	(aM)
* 45 Naphthalene-d8	136	4.166	4.166	(1.000)	10186	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.547	3.542	(0.852)	2264	0.07404	0.07404(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	6928	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	5.165	5.169	(0.888)	7938	0.07495	0.07495(M)
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	13307	0.10000	(M)
* 182 Chrysene-d12	240	10.066	10.071	(1.000)	10350	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.834	8.839	(0.878)	19079	0.09049	0.09049(M)
* 198 Perylene-d12	264	12.114	12.119	(1.000)	15328	0.10000	(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\240516A.b\11.D

Date : 16-MAY-2024 16:25

Client ID:

Instrument: SV6.i

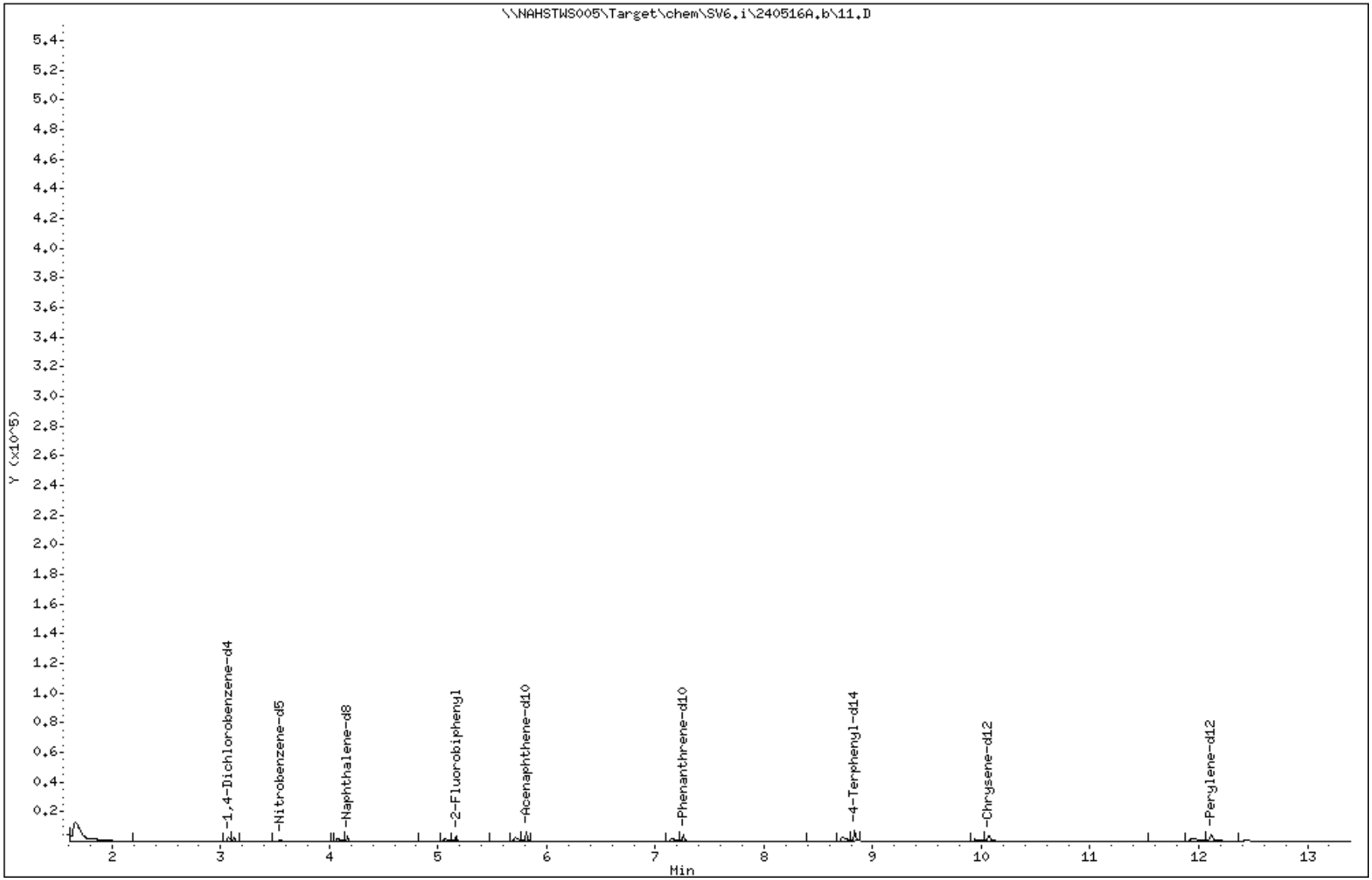
Sample Info: MBLK-211587

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



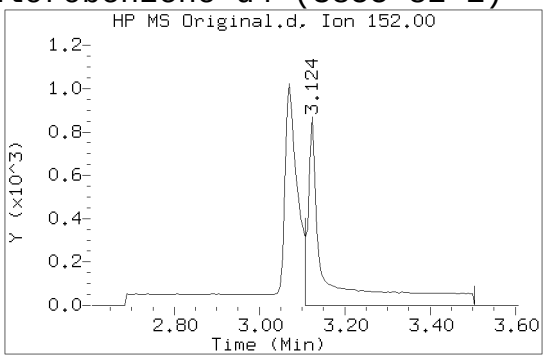
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

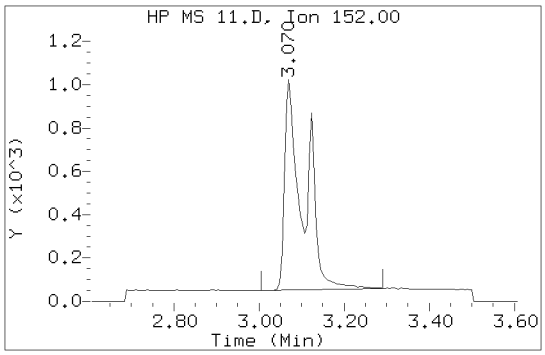
BEFORE

MASS
152
AREA
2514
HEIGHT
871
16-May-2024
16:40
ALSHS
Server



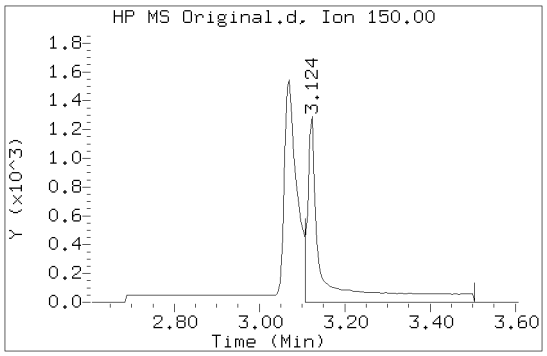
AFTER

MASS
152
AREA
2996
HEIGHT
970
17-May-2024
13:13



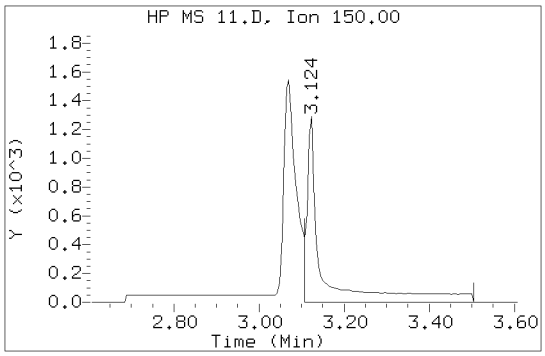
BEFORE

MASS
150
AREA
3135
HEIGHT
1289
16-May-2024
16:40
ALSHS
Server



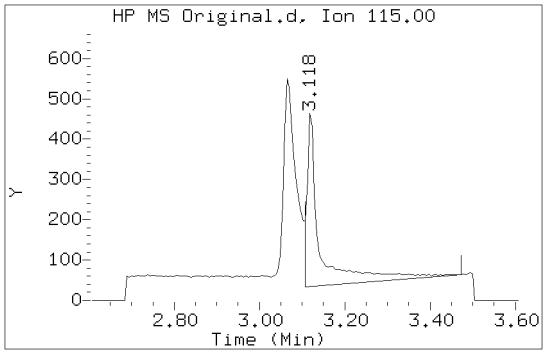
AFTER

MASS
150
AREA
3135
HEIGHT
1289
17-May-2024
13:13



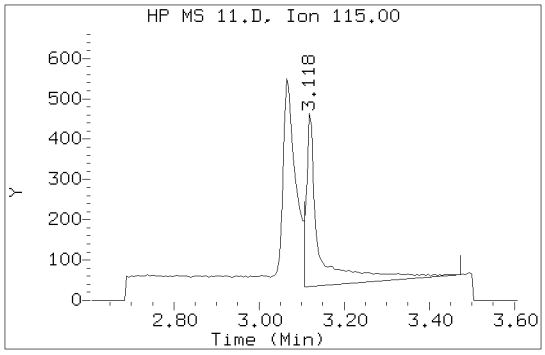
BEFORE

MASS
115
AREA
900
HEIGHT
429
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
115
AREA
900
HEIGHT
429
17-May-2024
13:13

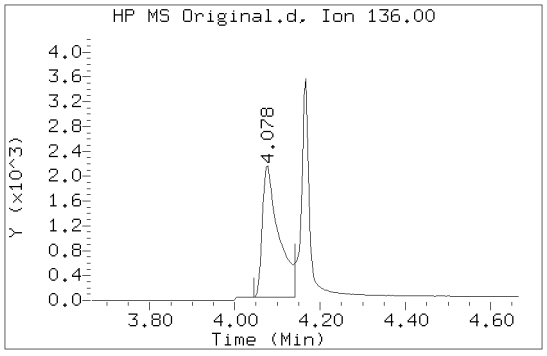


Naphthalene-d8 (1146-65-2)

Reason Code:

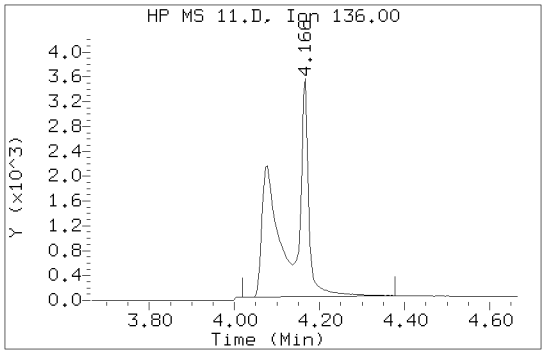
BEFORE

MASS
136
AREA
5698
HEIGHT
2119
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
136
AREA
10186
HEIGHT
3509
17-May-2024
13:13



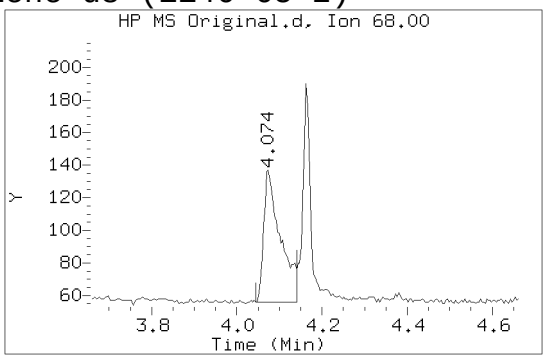
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

Naphthalene-d8 (1146-65-2)

Reason Code:

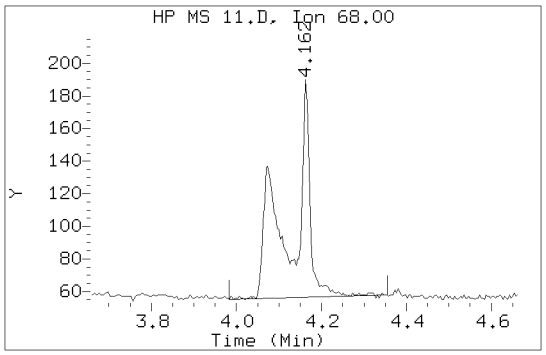
BEFORE

MASS
68
AREA
223
HEIGHT
81
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
68
AREA
410
HEIGHT
133
17-May-2024
13:13

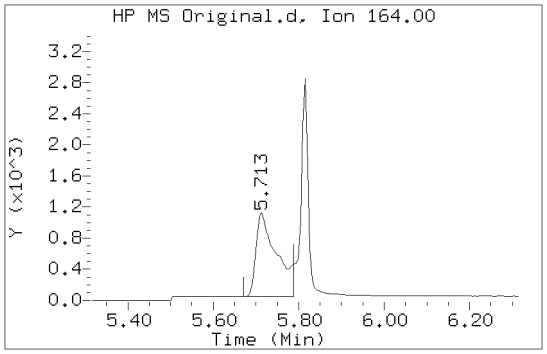


Acenaphthene-d10 (15067-26-2)

Reason Code:

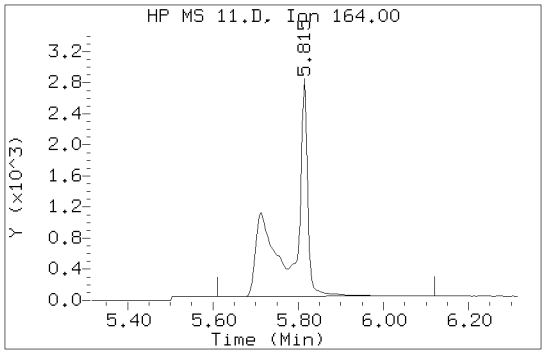
BEFORE

MASS
164
AREA
3674
HEIGHT
1082
16-May-2024
16:40
ALSHS
Server



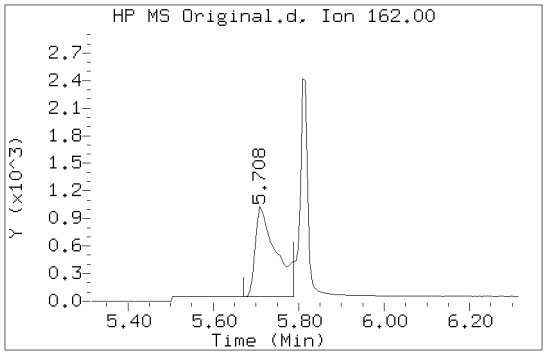
AFTER

MASS
164
AREA
6928
HEIGHT
2800
17-May-2024
13:13



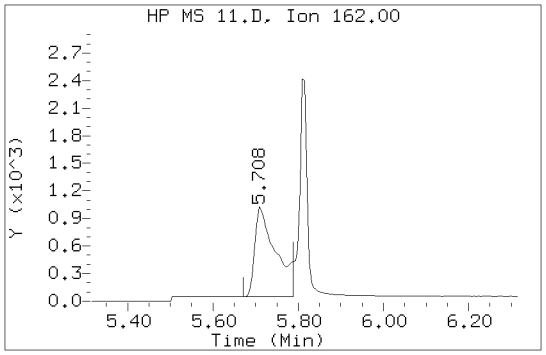
BEFORE

MASS
162
AREA
3374
HEIGHT
979
16-May-2024
16:40
ALSHS
Server



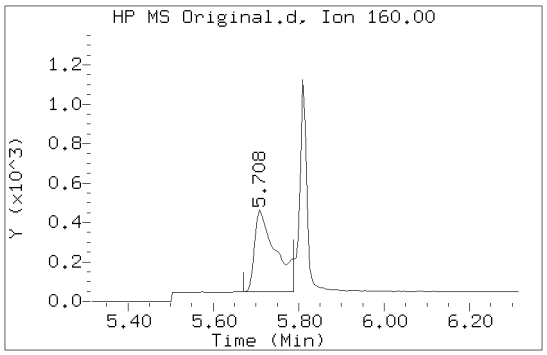
AFTER

MASS
162
AREA
3374
HEIGHT
979
17-May-2024
13:13



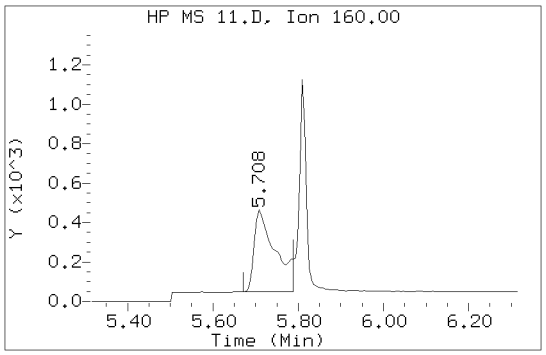
BEFORE

MASS
160
AREA
1456
HEIGHT
417
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
160
AREA
1456
HEIGHT
417
17-May-2024
13:13

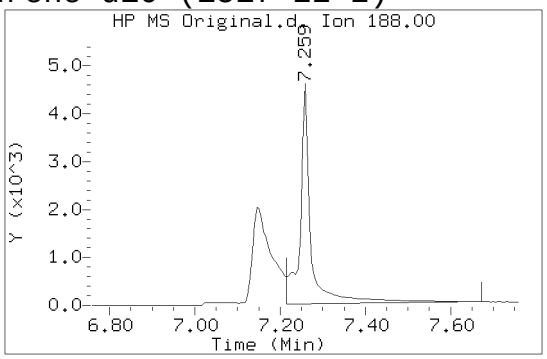


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

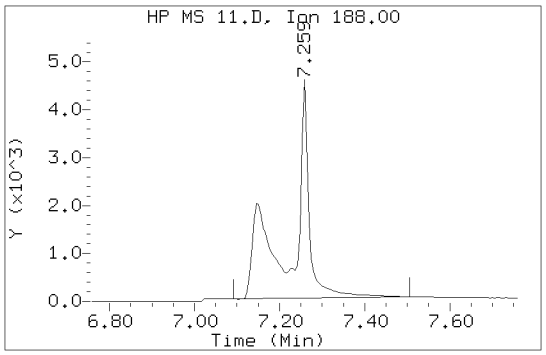
Phenanthrene-d10 (1517-22-2)

Reason Code:

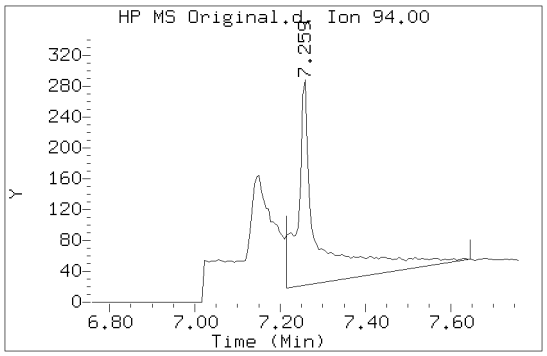
BEFORE
MASS
188
AREA
8164
HEIGHT
4600
16-May-2024
16:40
ALSHS
Server



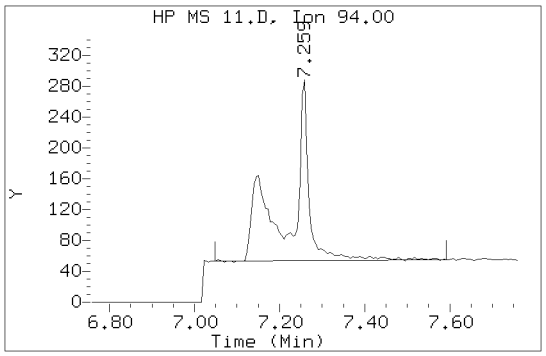
AFTER
MASS
188
AREA
13307
HEIGHT
4561
17-May-2024
13:13



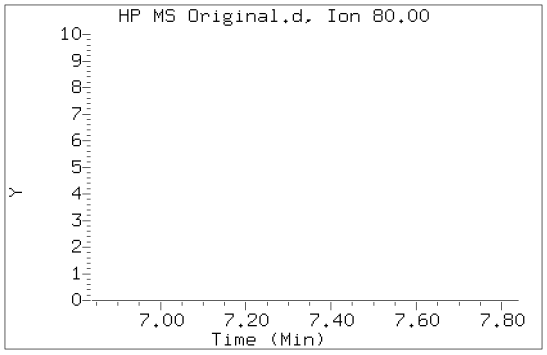
BEFORE
MASS
94
AREA
875
HEIGHT
266
16-May-2024
16:40
ALSHS
Server



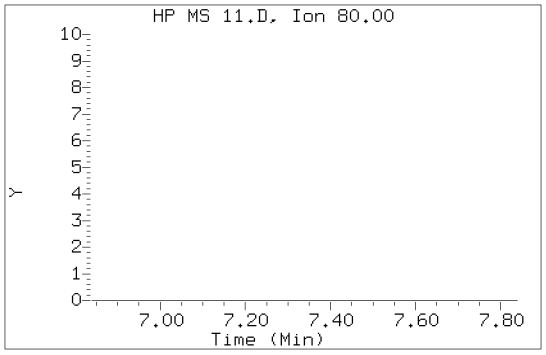
AFTER
MASS
94
AREA
754
HEIGHT
234
17-May-2024
13:13



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-May-2024
16:40
ALSHS
Server



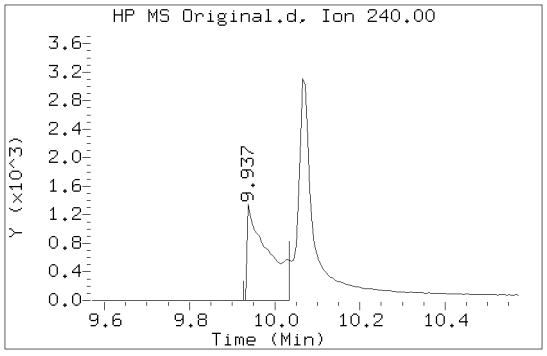
AFTER
MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:13



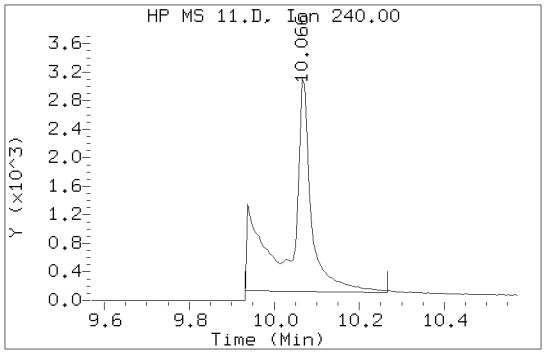
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
4680
HEIGHT
1344
16-May-2024
16:40
ALSHS
Server



AFTER
MASS
240
AREA
10350
HEIGHT
2981
17-May-2024
13:13



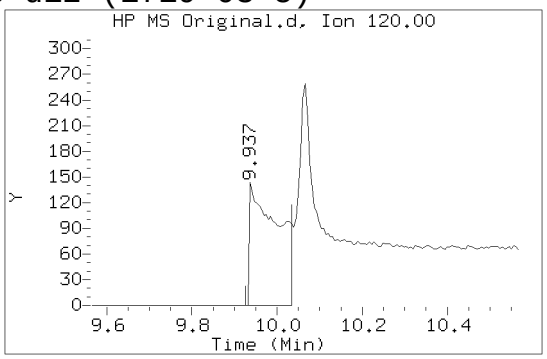
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

Chrysene-d12 (1719-03-5)

Reason Code:

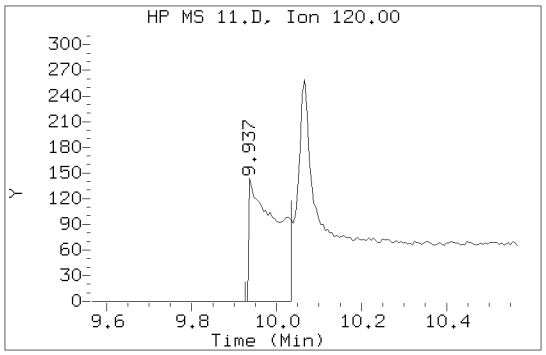
BEFORE

MASS
120
AREA
650
HEIGHT
144
16-May-2024
16:40
ALSHS
Server



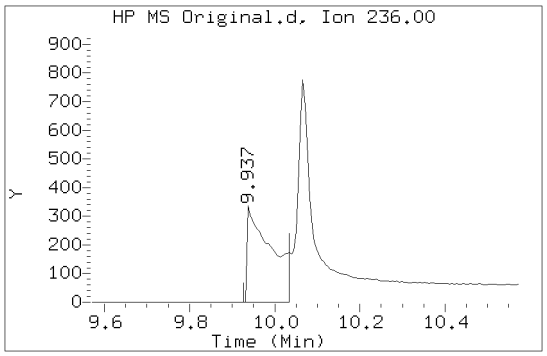
AFTER

MASS
120
AREA
650
HEIGHT
144
17-May-2024
13:13



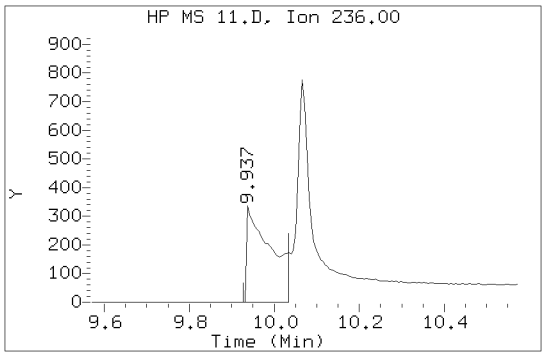
BEFORE

MASS
236
AREA
1320
HEIGHT
337
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
236
AREA
1320
HEIGHT
337
17-May-2024
13:13

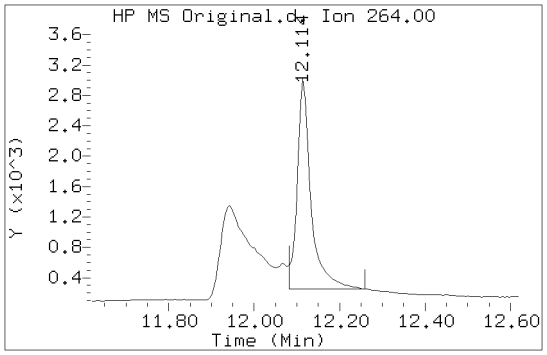


Perylene-d12 (1520-96-3)

Reason Code:

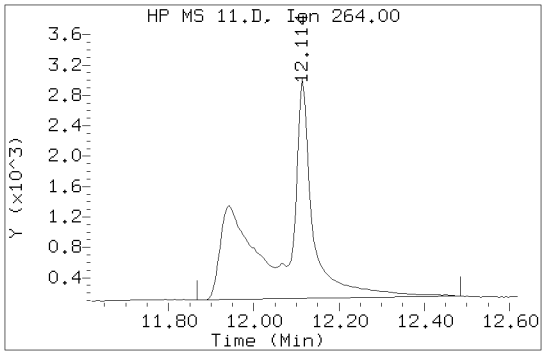
BEFORE

MASS
264
AREA
6231
HEIGHT
2767
16-May-2024
16:40
ALSHS
Server



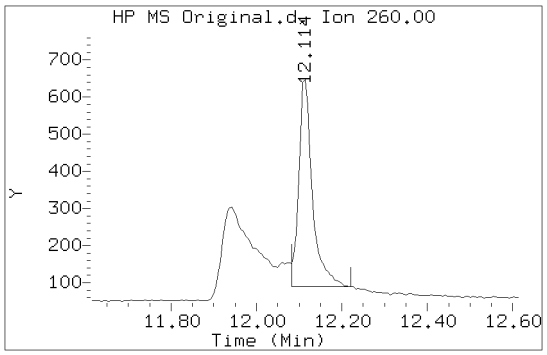
AFTER

MASS
264
AREA
15328
HEIGHT
2887
17-May-2024
13:13



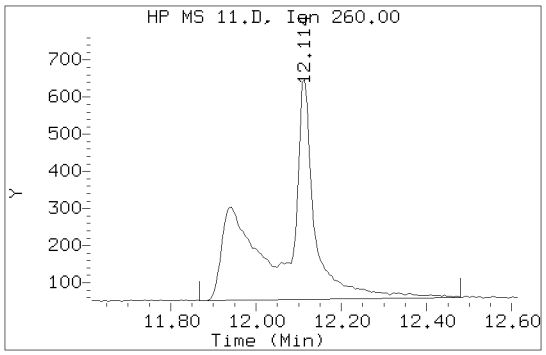
BEFORE

MASS
260
AREA
1248
HEIGHT
558
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
260
AREA
3230
HEIGHT
591
17-May-2024
13:13



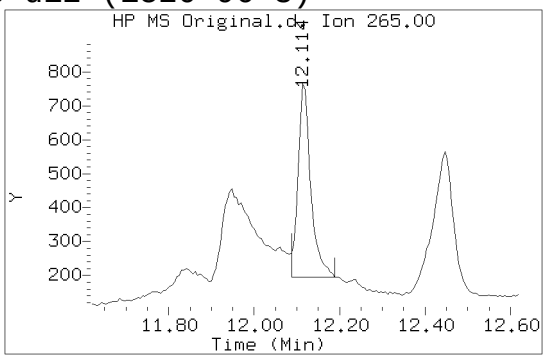
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

Perylene-d12 (1520-96-3)

Reason Code:

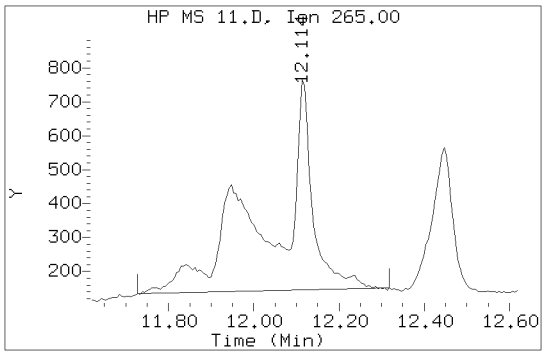
BEFORE

MASS
265
AREA
1177
HEIGHT
569
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
265
AREA
4107
HEIGHT
619
17-May-2024
13:13

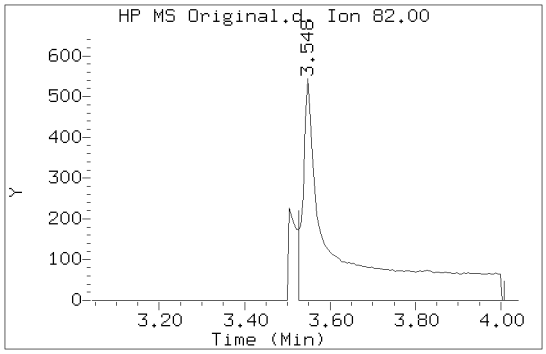


Nitrobenzene-d5 (4165-60-0)

Reason Code:

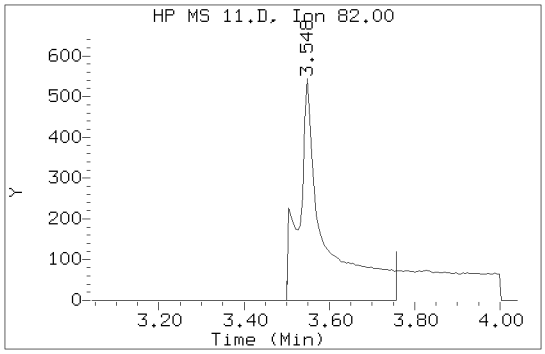
BEFORE

MASS
82
AREA
2984
HEIGHT
544
16-May-2024
16:40
ALSHS
Server



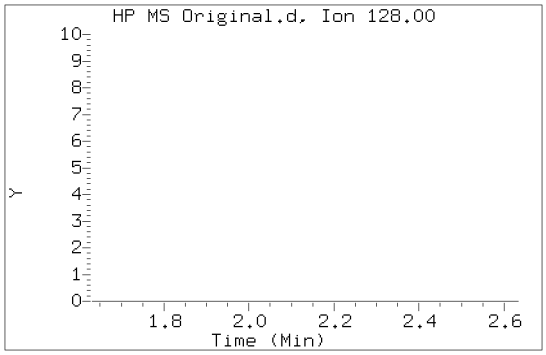
AFTER

MASS
82
AREA
2264
HEIGHT
544
17-May-2024
13:13



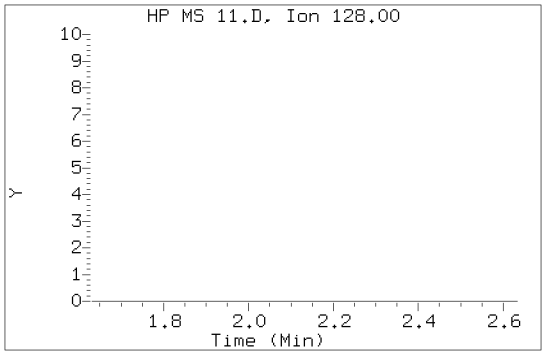
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-May-2024
16:40
ALSHS
Server



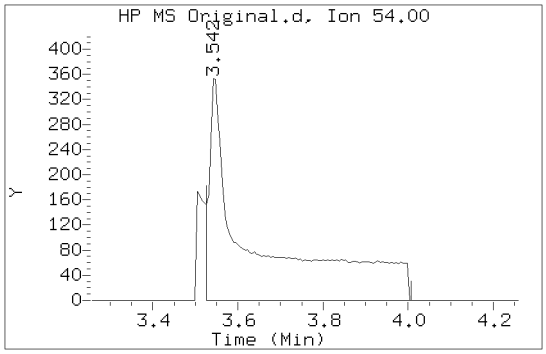
AFTER

MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:13



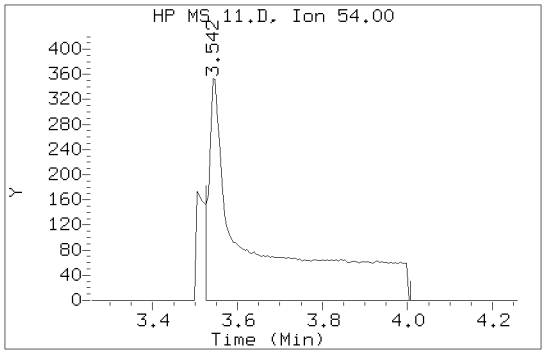
BEFORE

MASS
54
AREA
2424
HEIGHT
353
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
54
AREA
2424
HEIGHT
353
17-May-2024
13:13

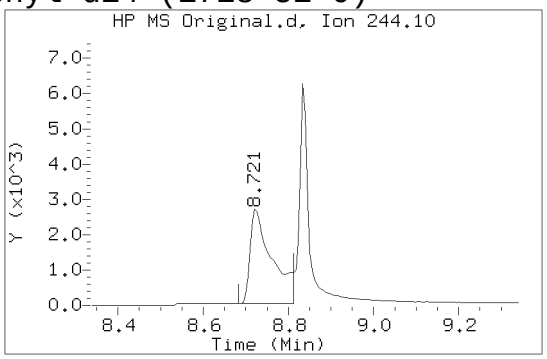


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

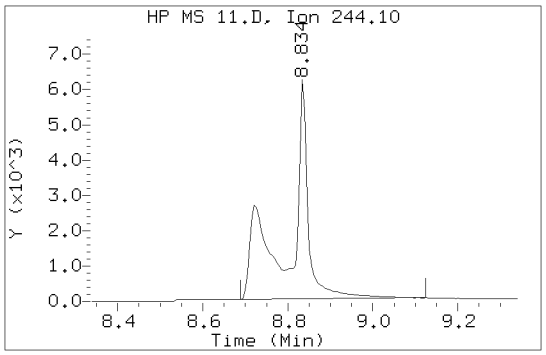
4-Terphenyl-d14 (1718-51-0)

Reason Code:

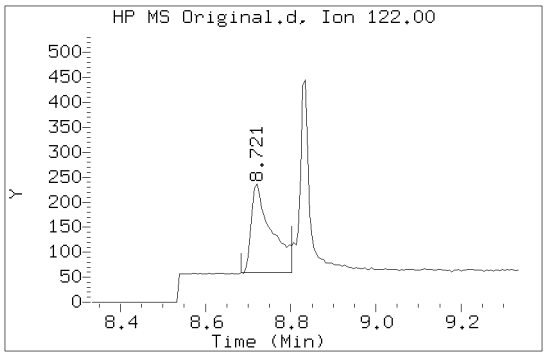
BEFORE
MASS
244.1
AREA
9667
HEIGHT
2675
16-May-2024
16:40
ALSHS
Server



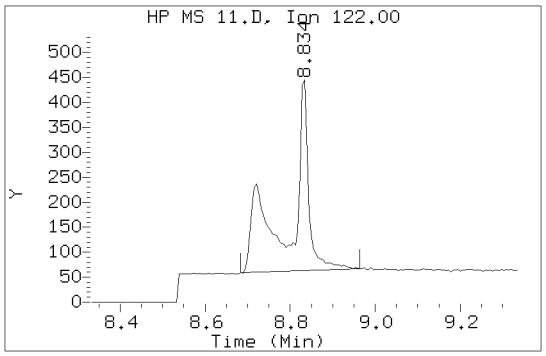
AFTER
MASS
244.1
AREA
19079
HEIGHT
6208
17-May-2024
13:13



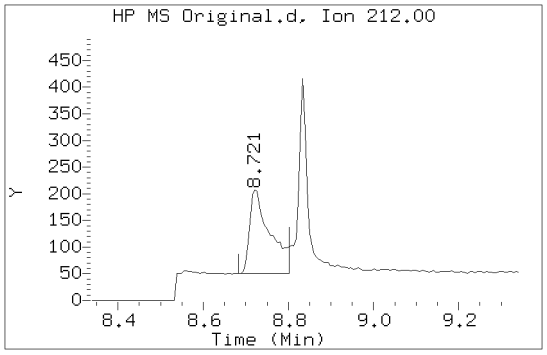
BEFORE
MASS
122
AREA
592
HEIGHT
178
16-May-2024
16:40
ALSHS
Server



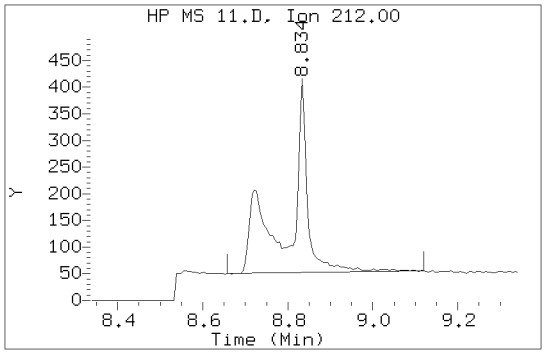
AFTER
MASS
122
AREA
1159
HEIGHT
381
17-May-2024
13:13



BEFORE
MASS
212
AREA
533
HEIGHT
157
16-May-2024
16:40
ALSHS
Server



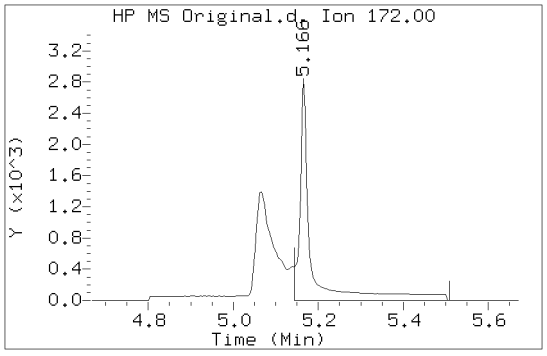
AFTER
MASS
212
AREA
1101
HEIGHT
363
17-May-2024
13:13



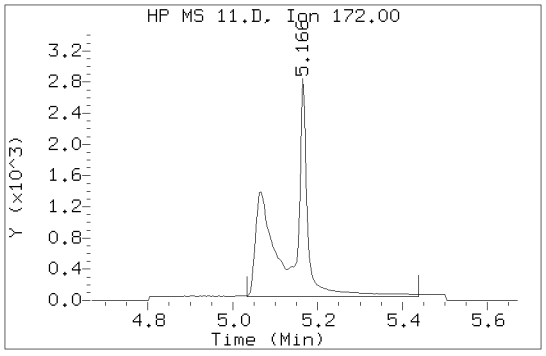
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
5143
HEIGHT
2843
16-May-2024
16:40
ALSHS
Server



AFTER
MASS
172
AREA
7938
HEIGHT
2791
17-May-2024
13:13



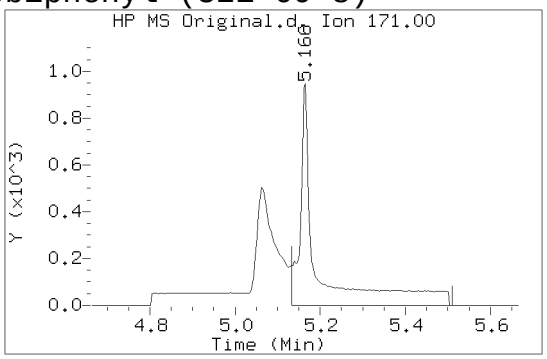
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\11.D
Inj Date : 16-MAY-2024 16:25
InstruID : SV6.i
LabSampID : MBLK-211587

2-Fluorobiphenyl (321-60-8)

Reason Code:

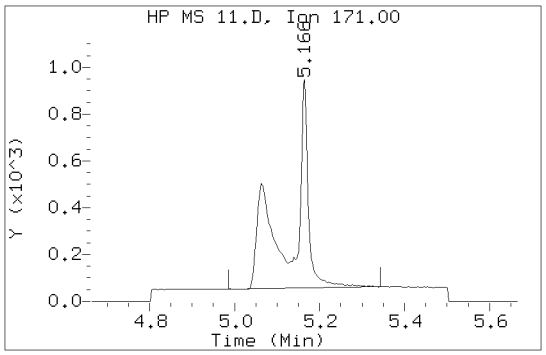
BEFORE

MASS
171
AREA
2573
HEIGHT
947
16-May-2024
16:40
ALSHS
Server



AFTER

MASS
171
AREA
2457
HEIGHT
888
17-May-2024
13:13



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Lab Smp Id: LCS-211587
Inj Date : 16-MAY-2024 16:42
Operator : LG Inst ID: SV6.i
Smp Info : LCS-211587
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: 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	3.107	3.107	(1.000)	1543	0.10000	(aM)
* 45 Naphthalene-d8	136	4.166	4.166	(1.000)	5138	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.547	3.542	(0.852)	1042	0.06755	0.06755(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	3355	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.169	5.169	(0.889)	3595	0.07010	0.07010(M)
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	6231	0.10000	(M)
* 182 Chrysene-d12	240	10.066	10.071	(1.000)	5526	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.833	8.839	(0.878)	7725	0.06862	0.06862(M)
* 198 Perylene-d12	264	12.114	12.119	(1.000)	6975	0.10000	
1 1,4-Dioxane	58	1.793	1.671	(0.577)	250	0.07564	0.07564(MH)

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\SV6.i\240516A.b\12.D

Date : 16-MAY-2024 16:42

Client ID:

Instrument: SV6.i

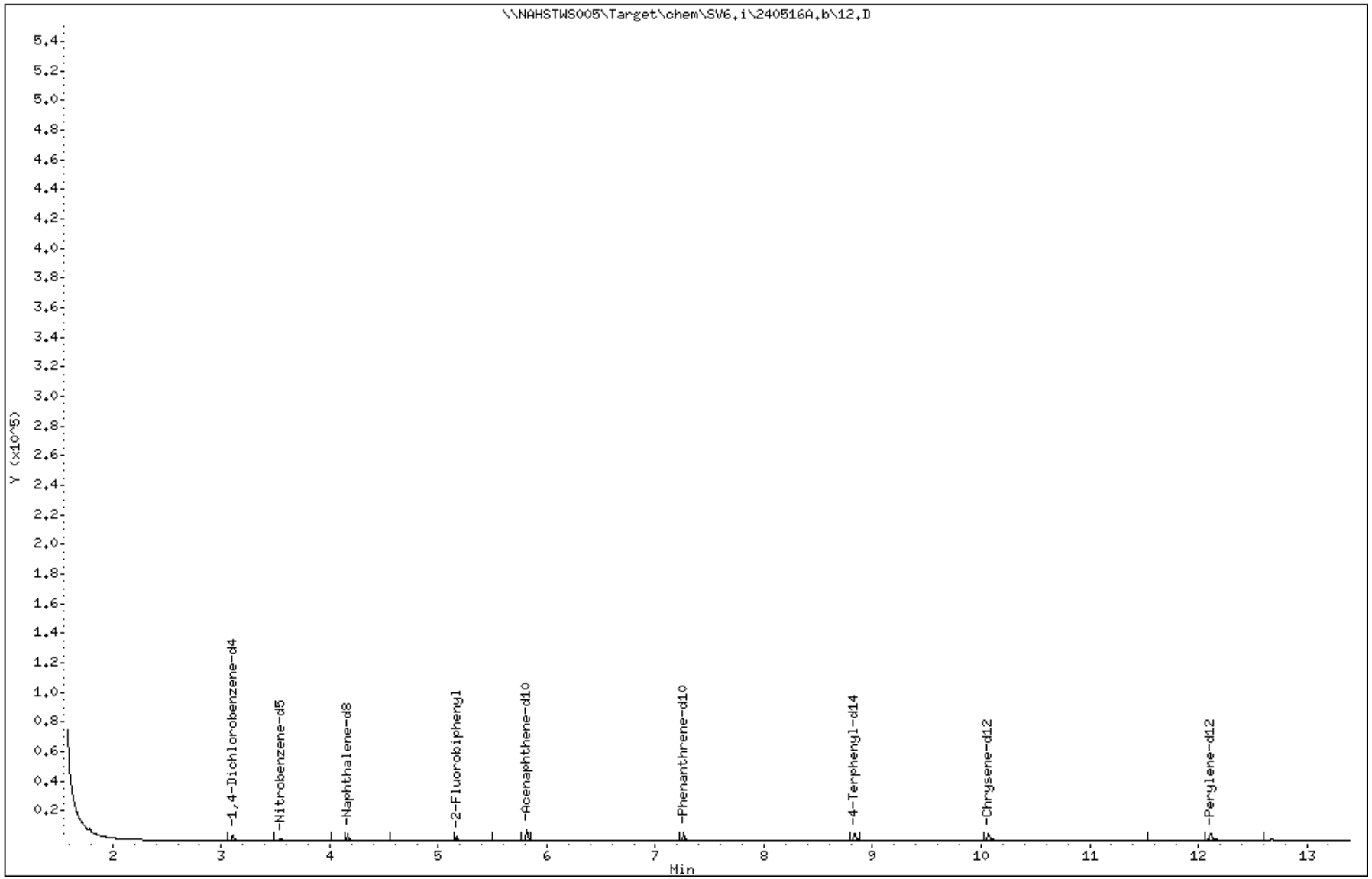
Sample Info: LCS-211587

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D Page 2

Date : 16-MAY-2024 16:42

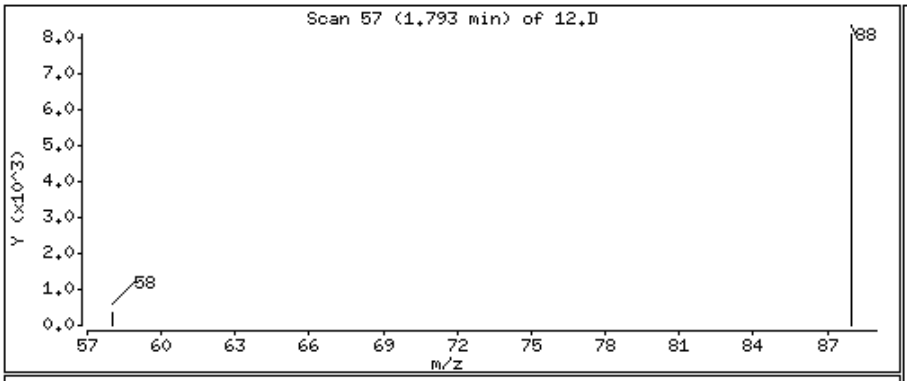
Client ID: Instrument: SV6.i

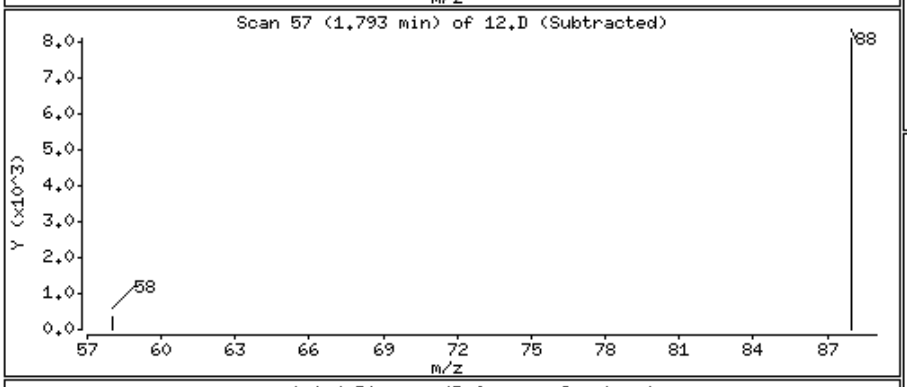
Sample Info: LCS-211587

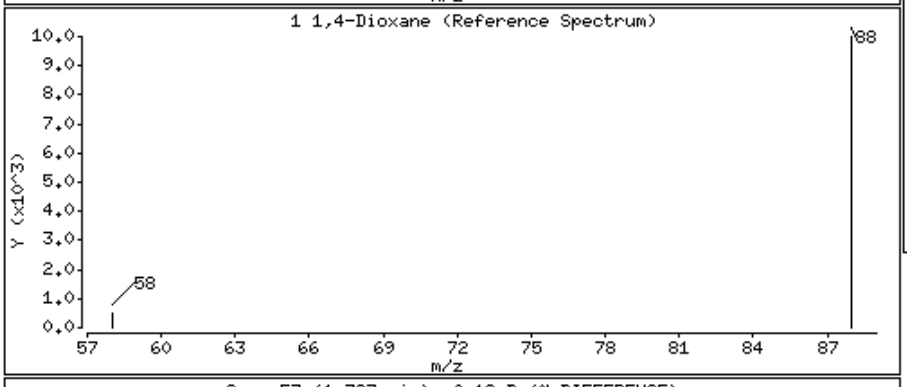
Purge Volume: 1000.0 Operator: LG

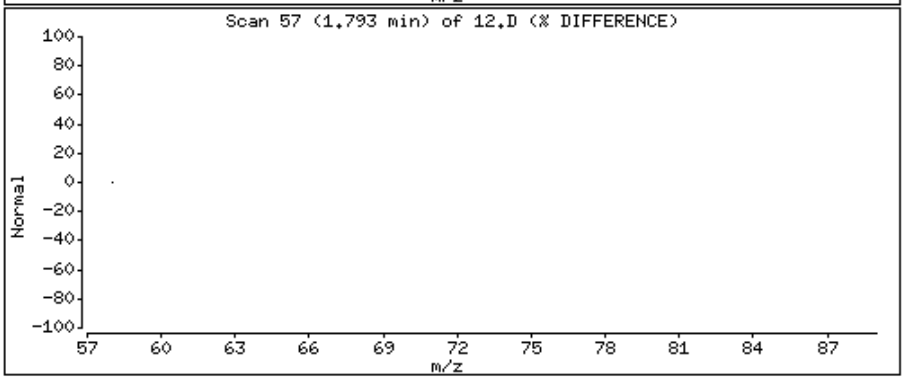
Column phase: RTX-5SIL MS Column diameter: 0.28

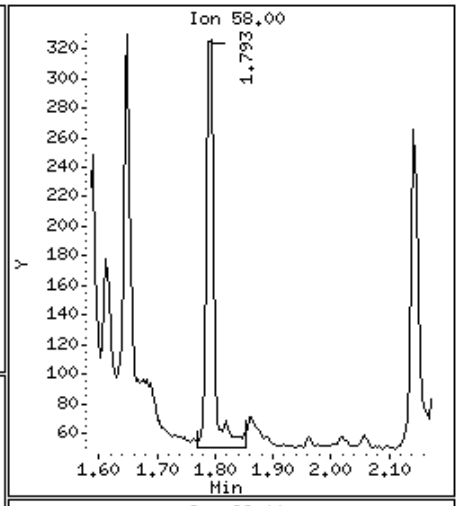
1 1,4-Dioxane Concentration: 0.07564 ug/L

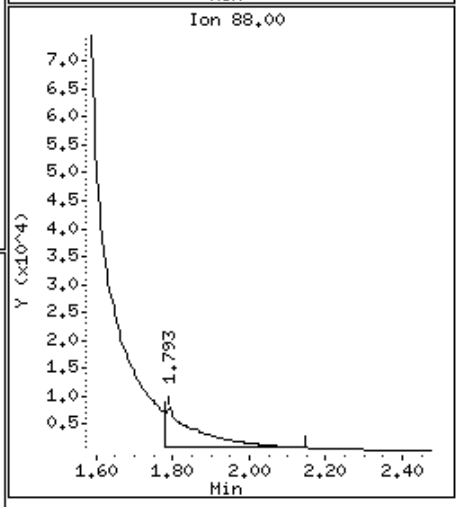












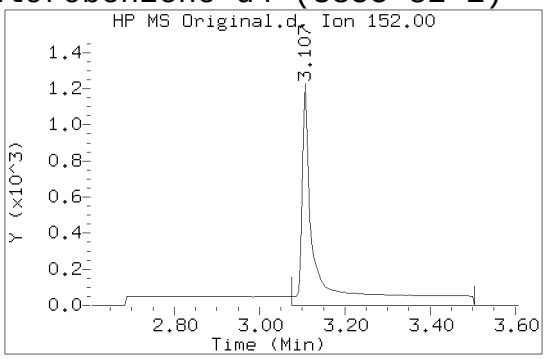
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

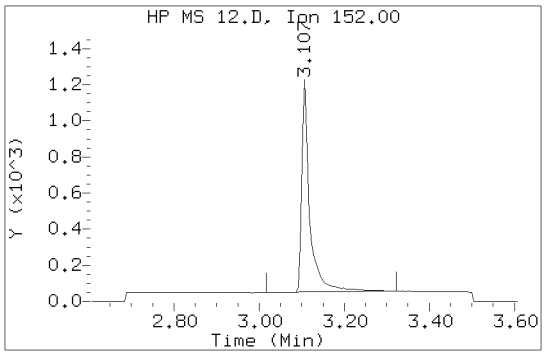
BEFORE

MASS
152
AREA
2943
HEIGHT
1228
16-May-2024
16:57
ALSHS
Server



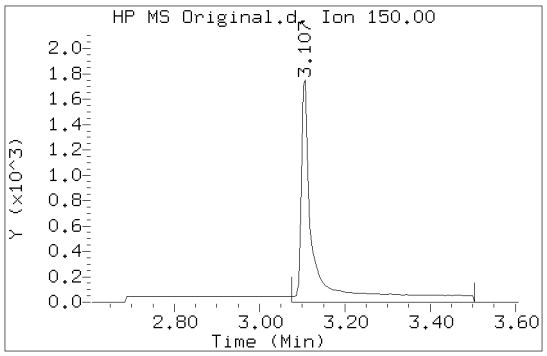
AFTER

MASS
152
AREA
1543
HEIGHT
1176
17-May-2024
13:17



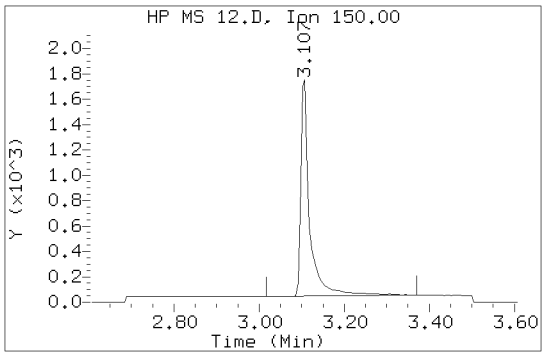
BEFORE

MASS
150
AREA
3829
HEIGHT
1752
16-May-2024
16:57
ALSHS
Server



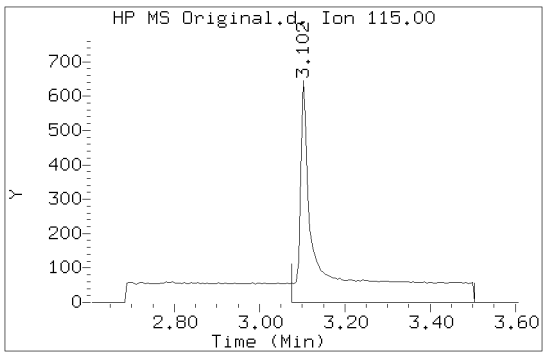
AFTER

MASS
150
AREA
2465
HEIGHT
1702
17-May-2024
13:17



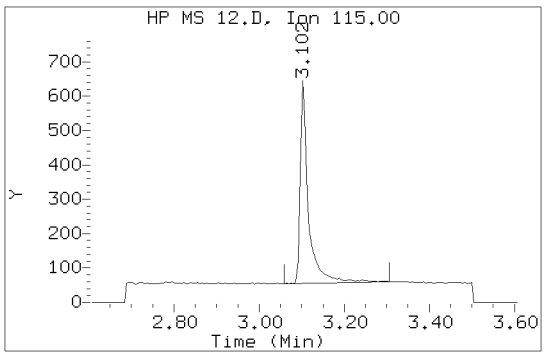
BEFORE

MASS
115
AREA
2269
HEIGHT
645
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
115
AREA
793
HEIGHT
589
17-May-2024
13:17

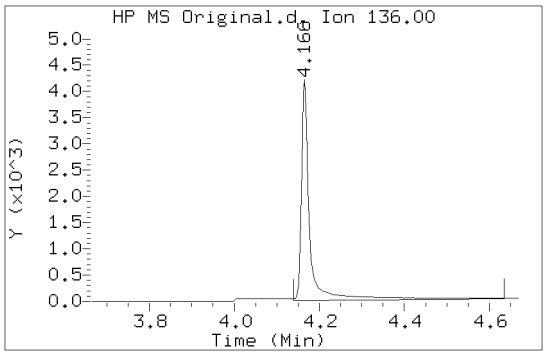


Naphthalene-d8 (1146-65-2)

Reason Code:

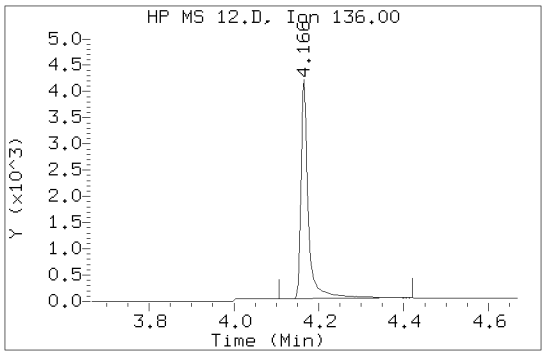
BEFORE

MASS
136
AREA
6019
HEIGHT
4209
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
136
AREA
5138
HEIGHT
4172
17-May-2024
13:17



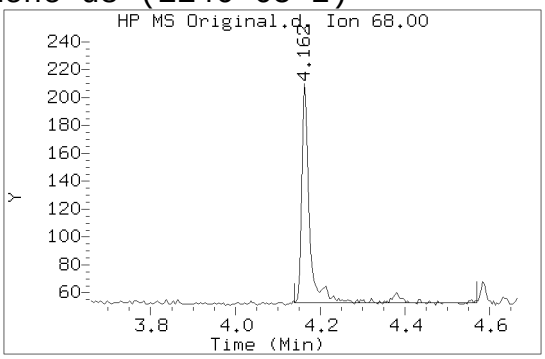
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

Naphthalene-d8 (1146-65-2)

Reason Code:

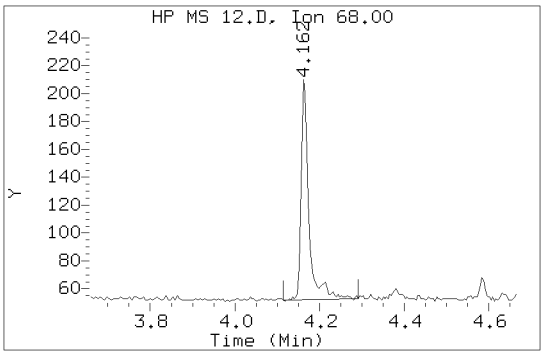
BEFORE

MASS
68
AREA
209
HEIGHT
157
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
68
AREA
201
HEIGHT
157
17-May-2024
13:17

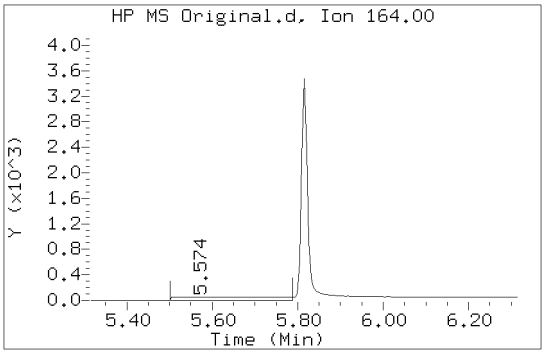


Acenaphthene-d10 (15067-26-2)

Reason Code:

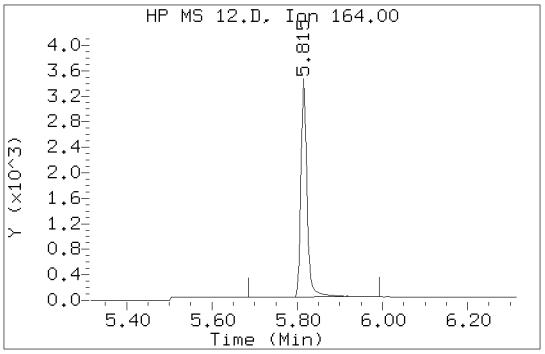
BEFORE

MASS
164
AREA
800
HEIGHT
48
16-May-2024
16:57
ALSHS
Server



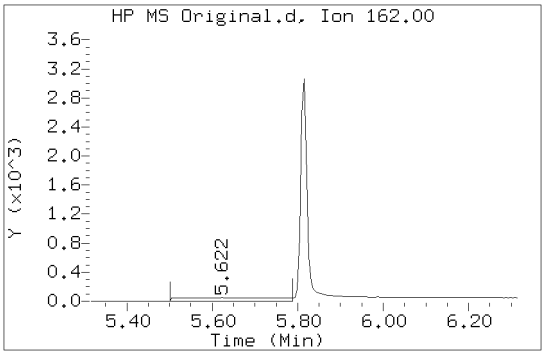
AFTER

MASS
164
AREA
3355
HEIGHT
3424
17-May-2024
13:17



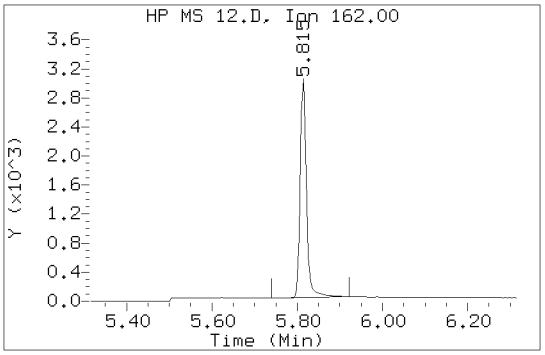
BEFORE

MASS
162
AREA
801
HEIGHT
50
16-May-2024
16:57
ALSHS
Server



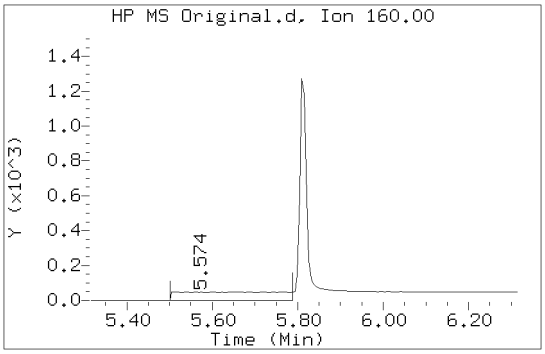
AFTER

MASS
162
AREA
3030
HEIGHT
3009
17-May-2024
13:17



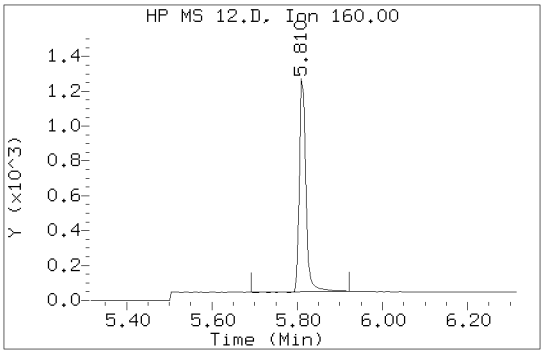
BEFORE

MASS
160
AREA
788
HEIGHT
47
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
160
AREA
1270
HEIGHT
1222
17-May-2024
13:17



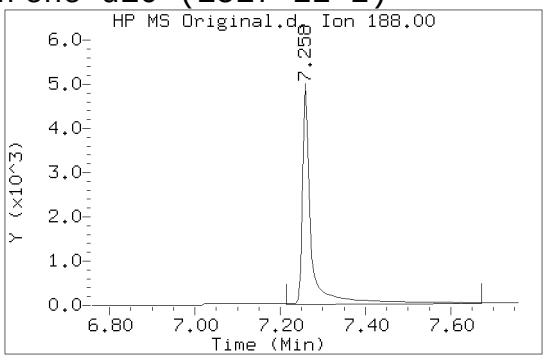
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

Phenanthrene-d10 (1517-22-2)

Reason Code:

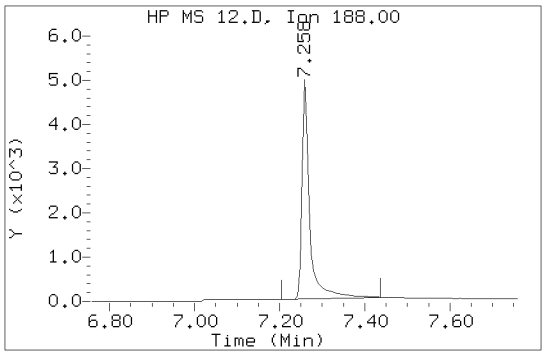
BEFORE

MASS
188
AREA
7330
HEIGHT
4989
16-May-2024
16:57
ALSHS
Server



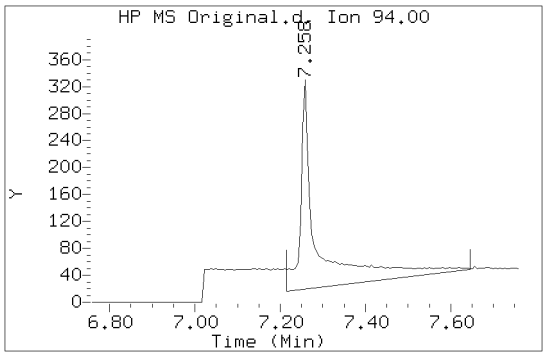
AFTER

MASS
188
AREA
6231
HEIGHT
4954
17-May-2024
13:17



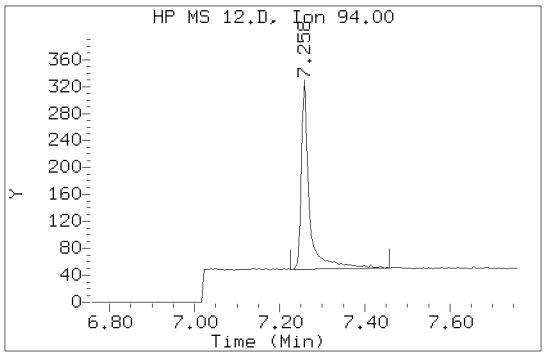
BEFORE

MASS
94
AREA
839
HEIGHT
310
16-May-2024
16:57
ALSHS
Server



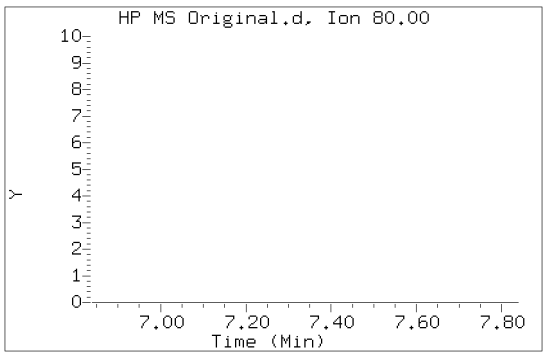
AFTER

MASS
94
AREA
370
HEIGHT
280
17-May-2024
13:17



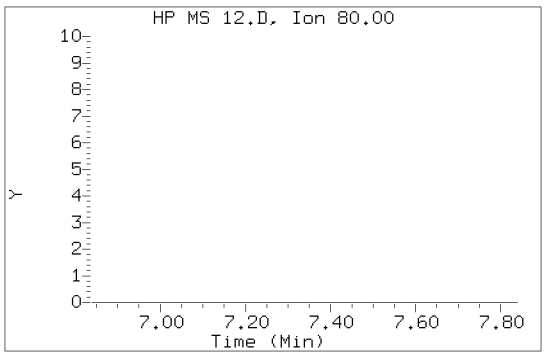
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:17

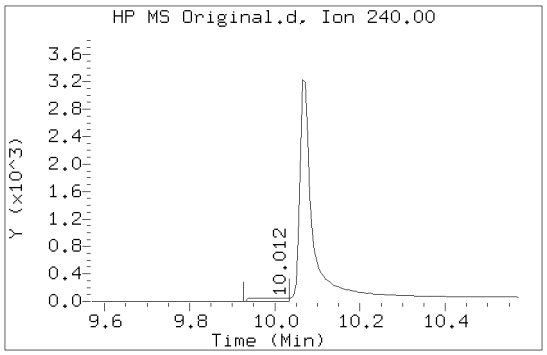


Chrysene-d12 (1719-03-5)

Reason Code:

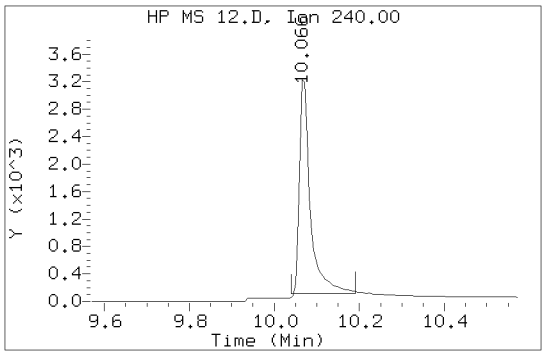
BEFORE

MASS
240
AREA
303
HEIGHT
51
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
240
AREA
5526
HEIGHT
3117
17-May-2024
13:17



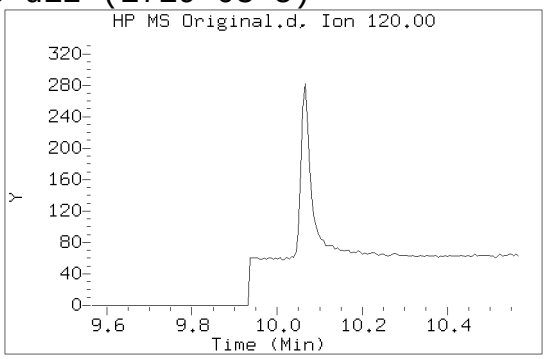
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

Chrysene-d12 (1719-03-5)

Reason Code:

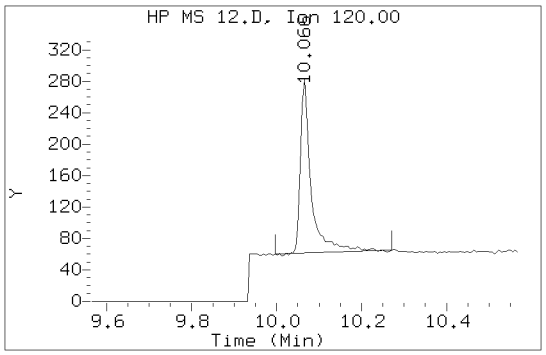
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



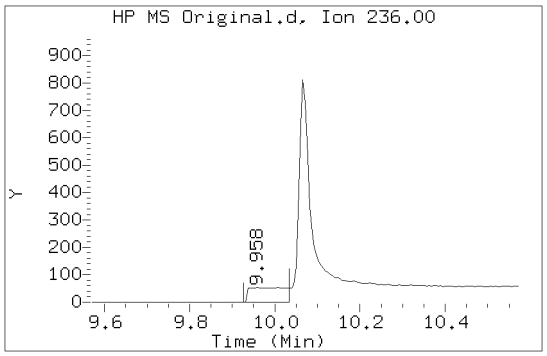
AFTER

MASS
120
AREA
386
HEIGHT
220
17-May-2024
13:17



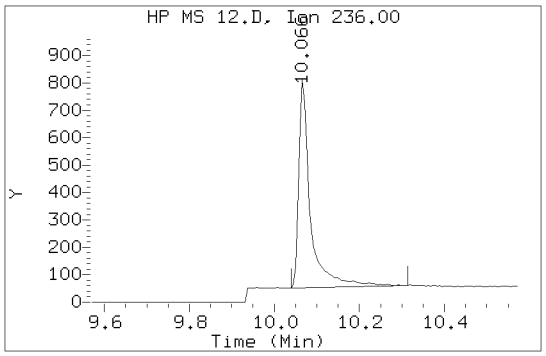
BEFORE

MASS
236
AREA
316
HEIGHT
53
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
236
AREA
1441
HEIGHT
758
17-May-2024
13:17

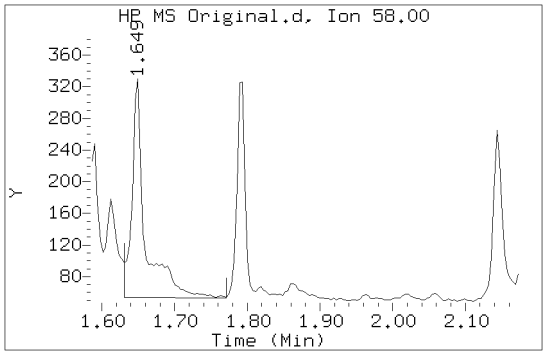


1,4-Dioxane ()

Reason Code:

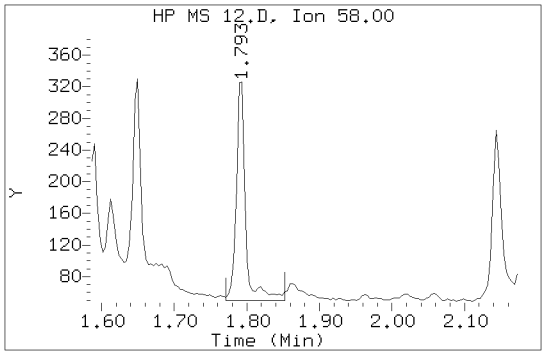
BEFORE

MASS
58
AREA
356
HEIGHT
276
16-May-2024
16:57
ALSHS
Server



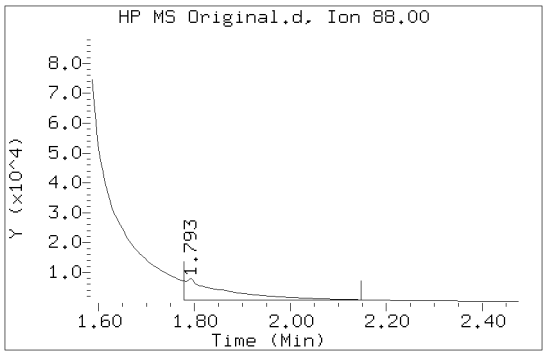
AFTER

MASS
58
AREA
250
HEIGHT
276
17-May-2024
13:17



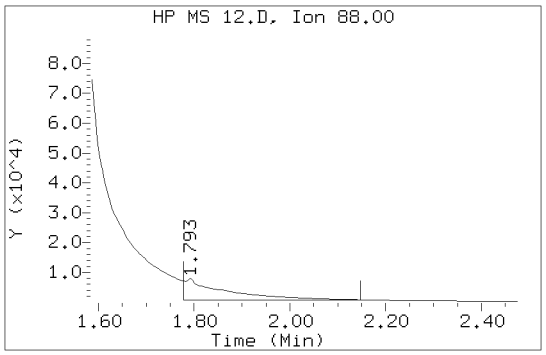
BEFORE

MASS
88
AREA
41006
HEIGHT
7248
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
88
AREA
41006
HEIGHT
7248
17-May-2024
13:17

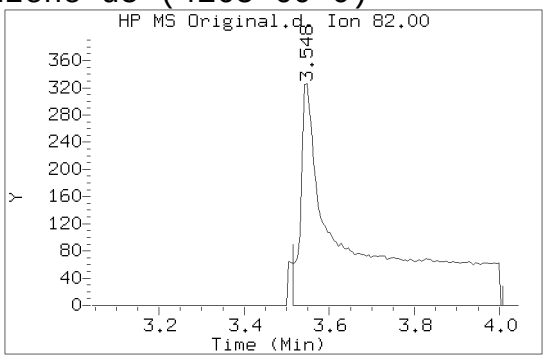


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

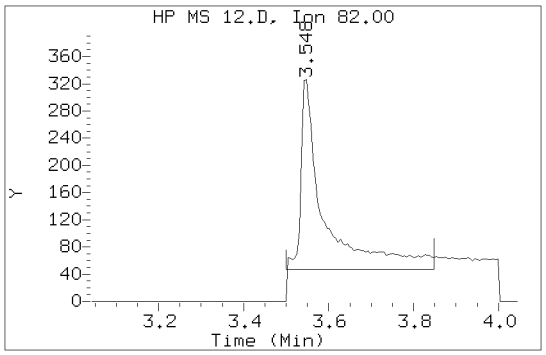
Nitrobenzene-d5 (4165-60-0)

Reason Code:

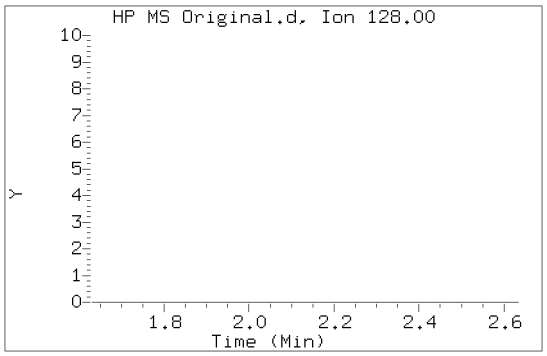
BEFORE
MASS
82
AREA
2555
HEIGHT
326
16-May-2024
16:57
ALSHS
Server



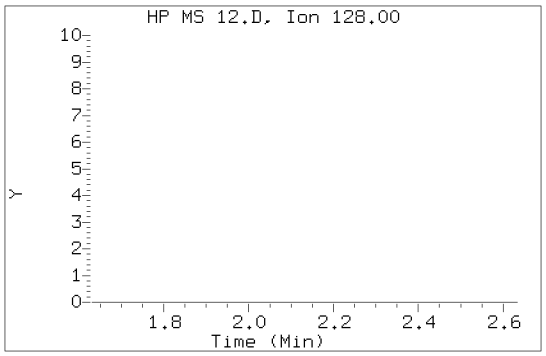
AFTER
MASS
82
AREA
1042
HEIGHT
279
17-May-2024
13:17



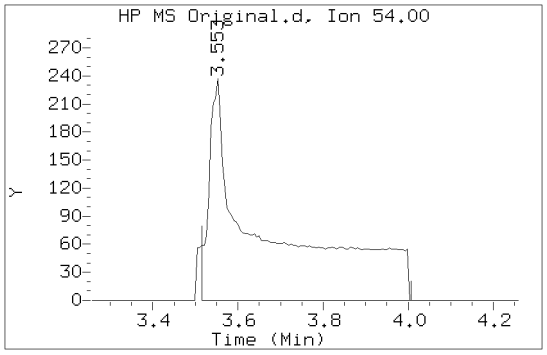
BEFORE
MASS
128
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



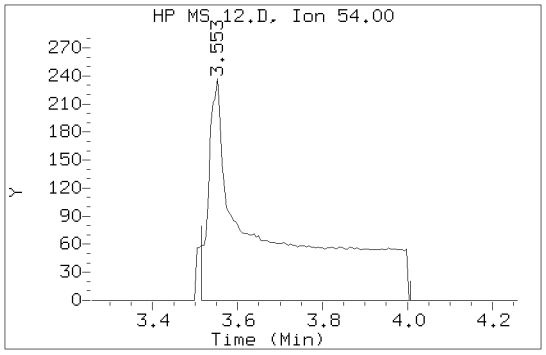
AFTER
MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:17



BEFORE
MASS
54
AREA
2083
HEIGHT
237
16-May-2024
16:57
ALSHS
Server



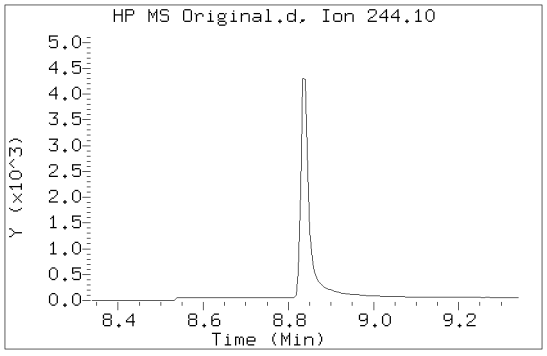
AFTER
MASS
54
AREA
2083
HEIGHT
237
17-May-2024
13:17



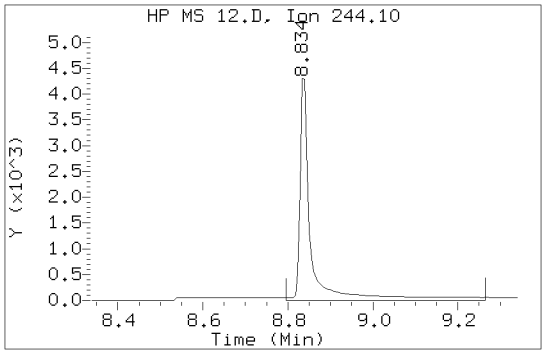
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



AFTER
MASS
244.1
AREA
7725
HEIGHT
4294
17-May-2024
13:17



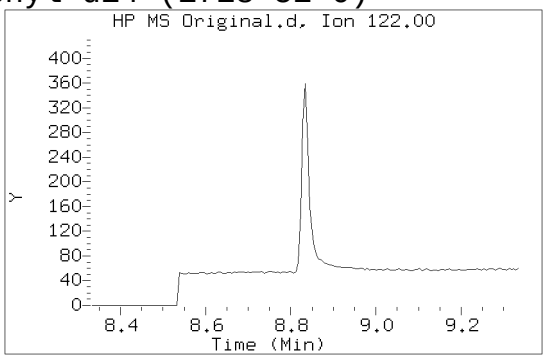
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\12.D
Inj Date : 16-MAY-2024 16:42
InstruID : SV6.i
LabSampID : LCS-211587

4-Terphenyl-d14 (1718-51-0)

Reason Code:

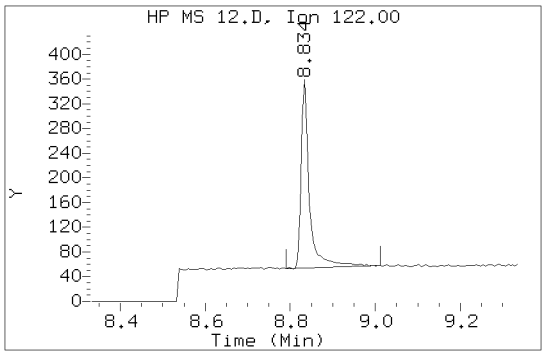
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



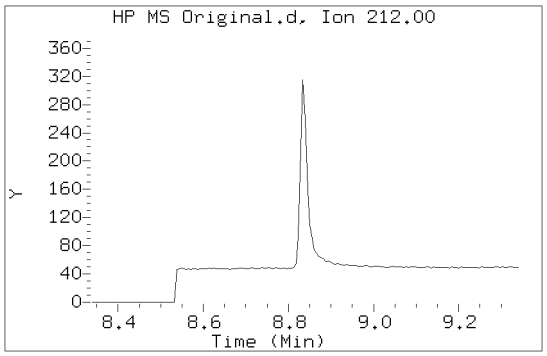
AFTER

MASS
122
AREA
405
HEIGHT
305
17-May-2024
13:17



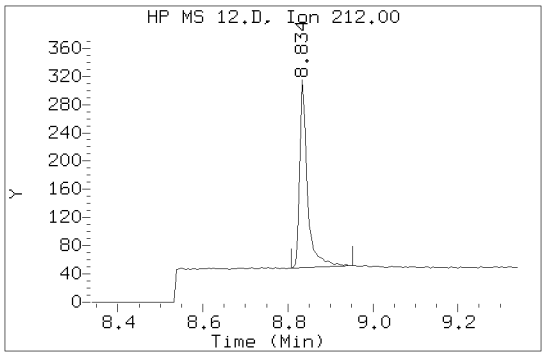
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
212
AREA
332
HEIGHT
266
17-May-2024
13:17

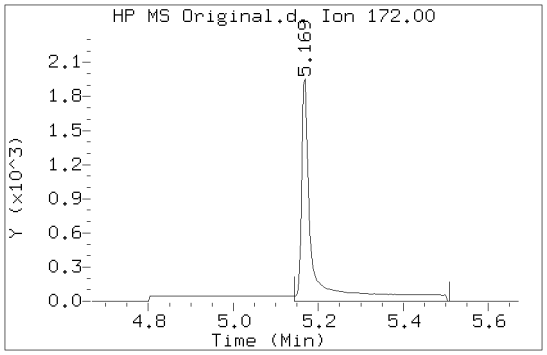


2-Fluorobiphenyl (321-60-8)

Reason Code:

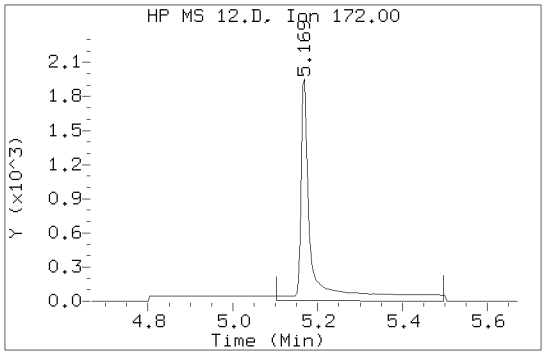
BEFORE

MASS
172
AREA
3586
HEIGHT
1954
16-May-2024
16:57
ALSHS
Server



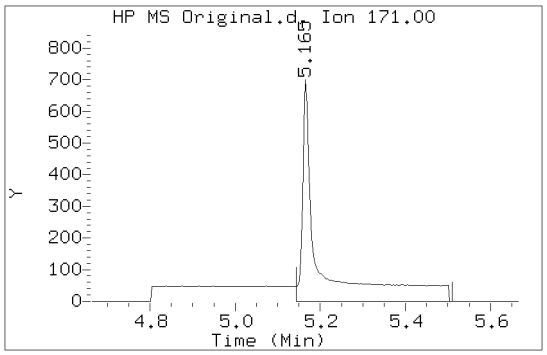
AFTER

MASS
172
AREA
3595
HEIGHT
1950
17-May-2024
13:17



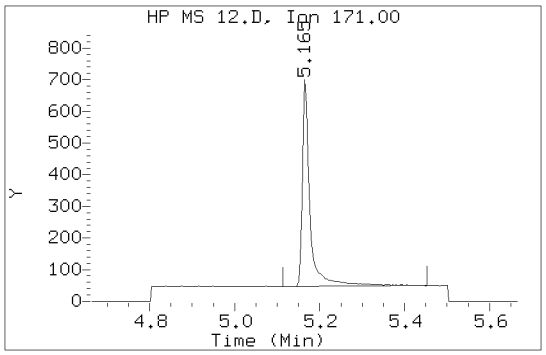
BEFORE

MASS
171
AREA
1888
HEIGHT
700
16-May-2024
16:57
ALSHS
Server



AFTER

MASS
171
AREA
821
HEIGHT
652
17-May-2024
13:17



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Lab Smp Id: LCSD-211587
Inj Date : 16-MAY-2024 17:00
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-211587
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240516A.b\DXSIM.m
Meth Date : 16-May-2024 13:48 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.112	3.107	(1.000)	2593	0.10000	(aM)
* 45 Naphthalene-d8	136	4.166	4.166	(1.000)	8151	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.547	3.542	(0.852)	1758	0.07184	0.07184(M)
* 86 Acenaphthene-d10	164	5.815	5.815	(1.000)	5670	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.169	5.169	(0.932)	5501	0.06347	0.06347
* 126 Phenanthrene-d10	188	7.258	7.258	(1.000)	10376	0.10000	(M)
* 182 Chrysene-d12	240	10.066	10.071	(1.000)	10060	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.834	8.839	(0.878)	12898	0.06294	0.06294(M)
* 198 Perylene-d12	264	12.114	12.119	(1.000)	11901	0.10000	
1 1,4-Dioxane	58	1.682	1.671	(0.541)	393	0.07076	0.07076(Q)

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\240516A.b\13.D

Date : 16-MAY-2024 17:00

Client ID:

Instrument: SV6.i

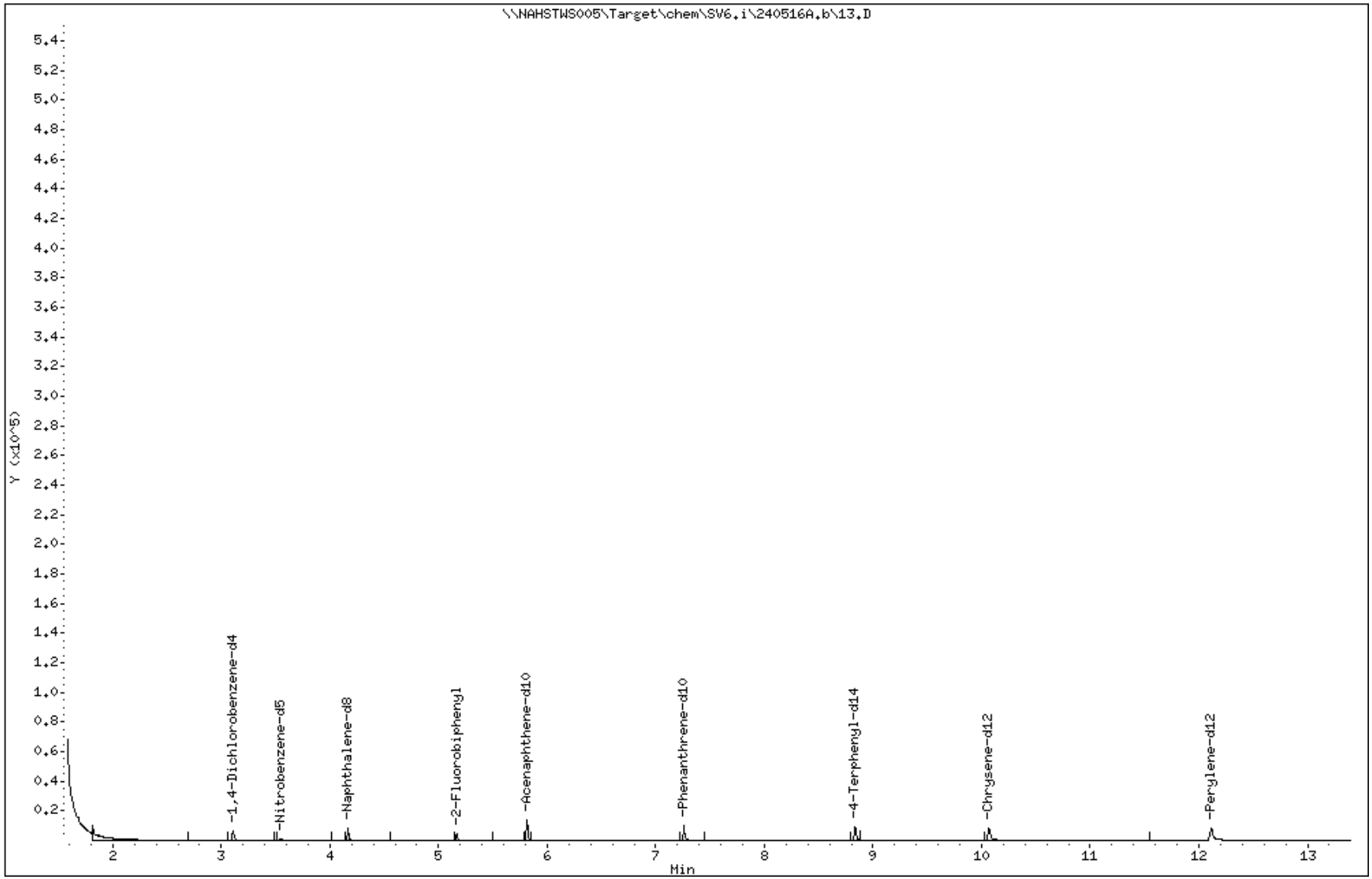
Sample Info: LCSD-211587

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D

Date : 16-MAY-2024 17:00

Client ID:

Instrument: SV6.i

Sample Info: LCSD-211587

Purge Volume: 1000.0

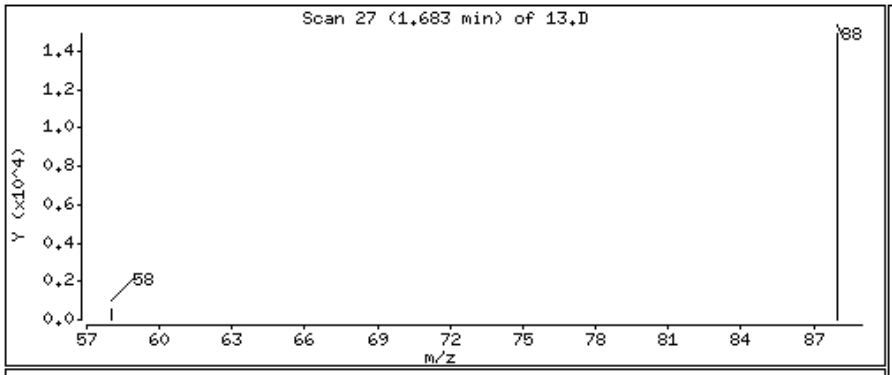
Operator: LG

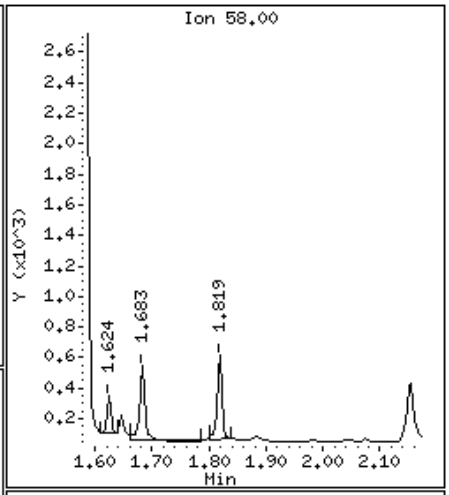
Column phase: RTX-5SIL MS

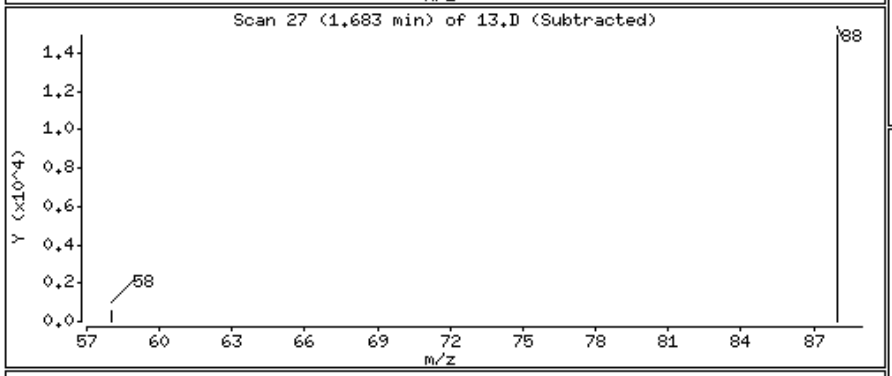
Column diameter: 0.28

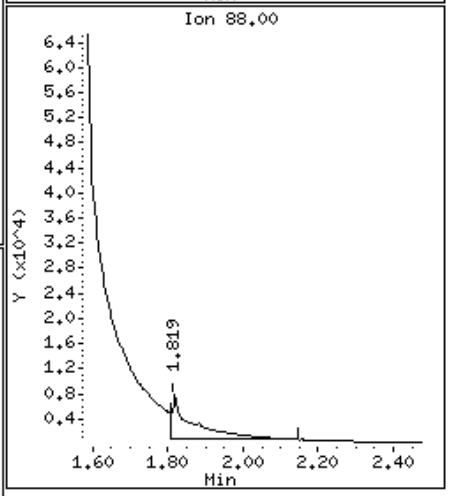
1 1,4-Dioxane

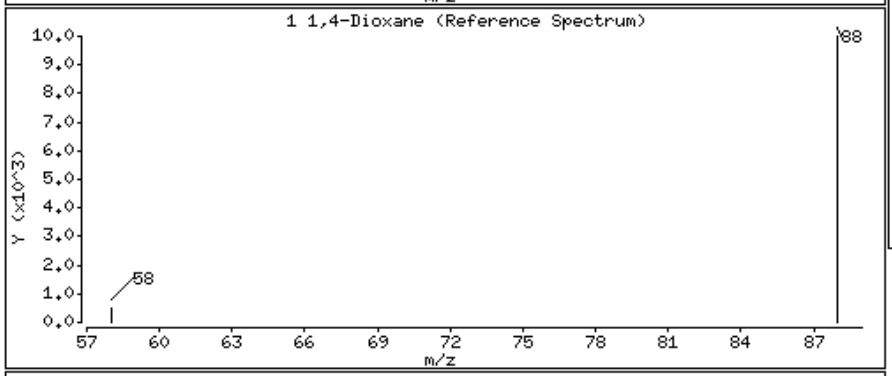
Concentration: 0.07076 ug/L

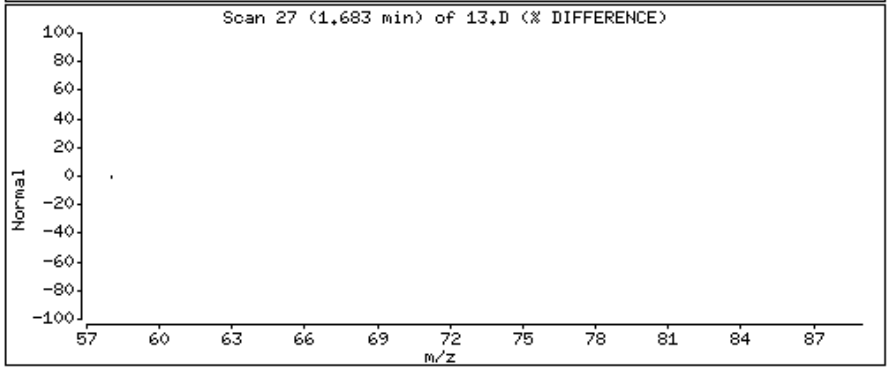










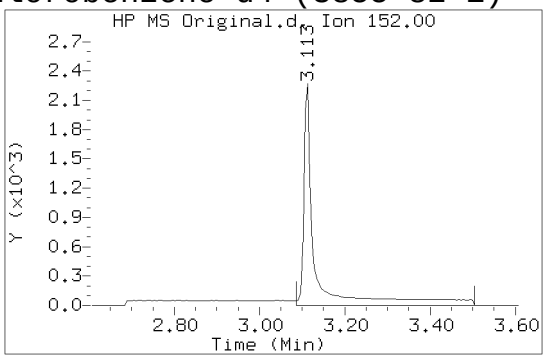


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Inj Date : 16-MAY-2024 17:00
InstruID : SV6.i
LabSampID : LCSD-211587

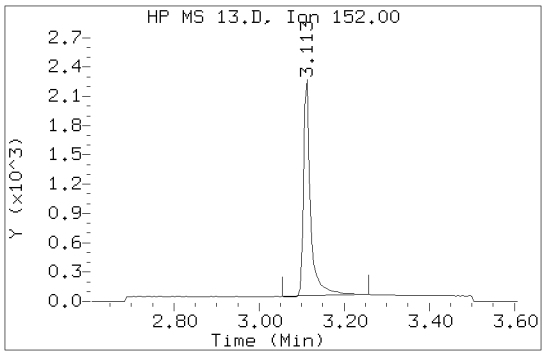
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

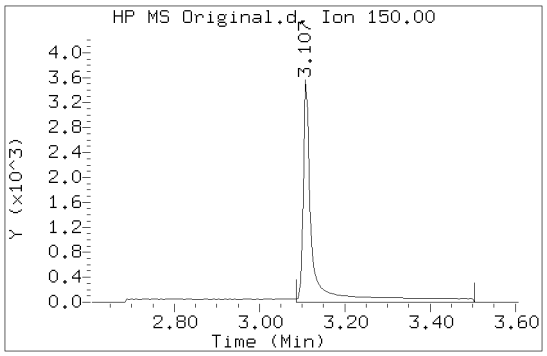
BEFORE
MASS
152
AREA
4107
HEIGHT
2270
16-May-2024
17:16
ALSHS
Server



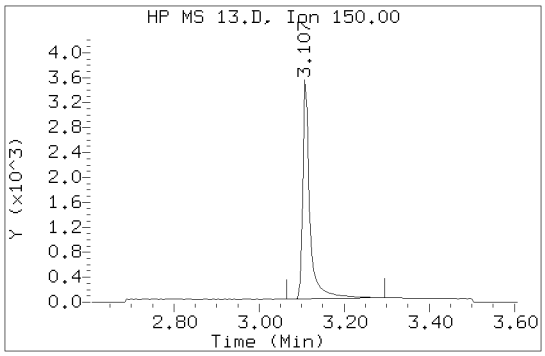
AFTER
MASS
152
AREA
2593
HEIGHT
2214
17-May-2024
13:25



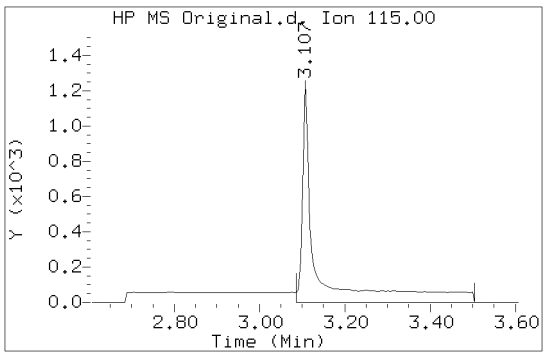
BEFORE
MASS
150
AREA
5668
HEIGHT
3564
16-May-2024
17:16
ALSHS
Server



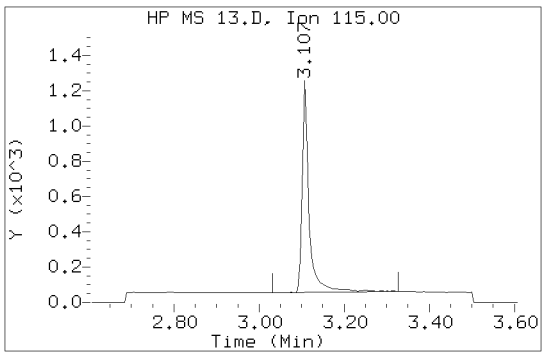
AFTER
MASS
150
AREA
4119
HEIGHT
3511
17-May-2024
13:25



BEFORE
MASS
115
AREA
2832
HEIGHT
1257
16-May-2024
17:16
ALSHS
Server



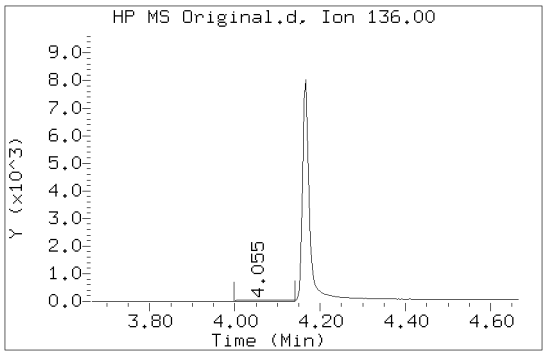
AFTER
MASS
115
AREA
1369
HEIGHT
1201
17-May-2024
13:25



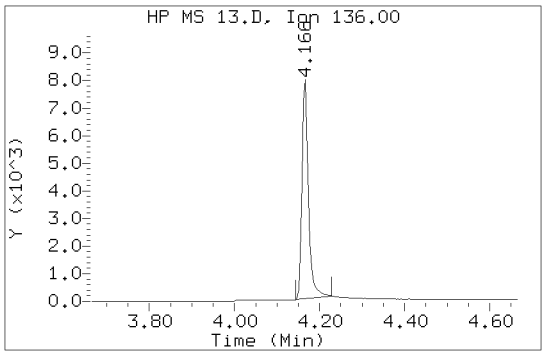
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
397
HEIGHT
48
16-May-2024
17:16
ALSHS
Server



AFTER
MASS
136
AREA
8151
HEIGHT
7926
17-May-2024
13:25



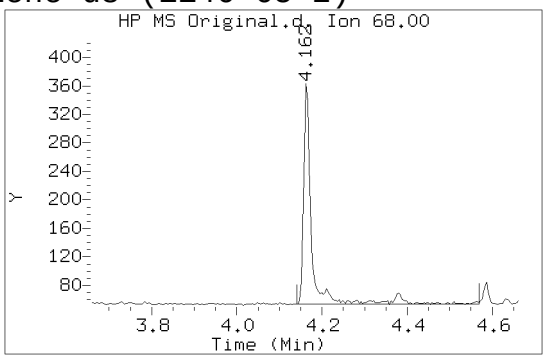
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Inj Date : 16-MAY-2024 17:00
InstruID : SV6.i
LabSampID : LCSD-211587

Naphthalene-d8 (1146-65-2)

Reason Code:

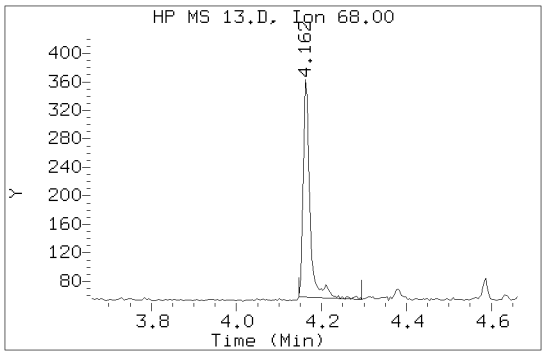
BEFORE

MASS
68
AREA
396
HEIGHT
309
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
68
AREA
333
HEIGHT
305
17-May-2024
13:25

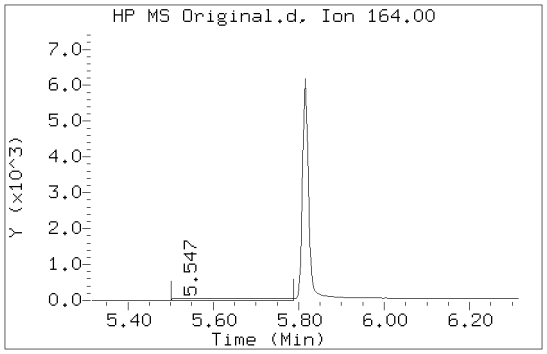


Acenaphthene-d10 (15067-26-2)

Reason Code:

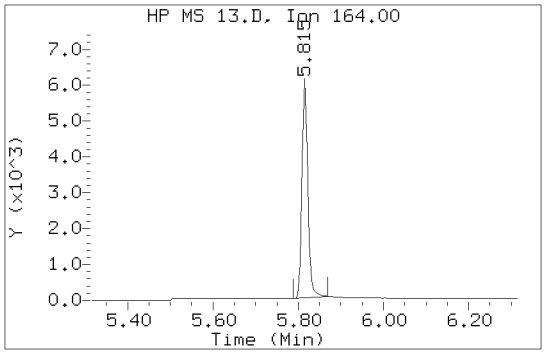
BEFORE

MASS
164
AREA
800
HEIGHT
48
16-May-2024
17:16
ALSHS
Server



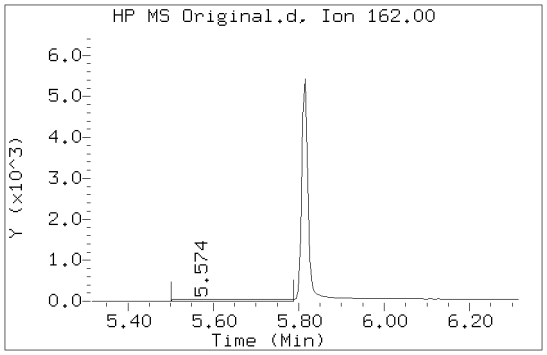
AFTER

MASS
164
AREA
5670
HEIGHT
6116
17-May-2024
13:25



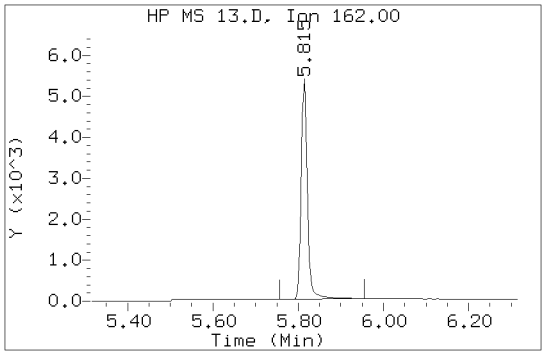
BEFORE

MASS
162
AREA
796
HEIGHT
48
16-May-2024
17:16
ALSHS
Server



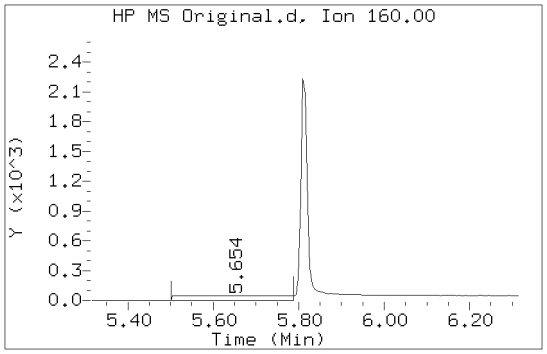
AFTER

MASS
162
AREA
5354
HEIGHT
5374
17-May-2024
13:25



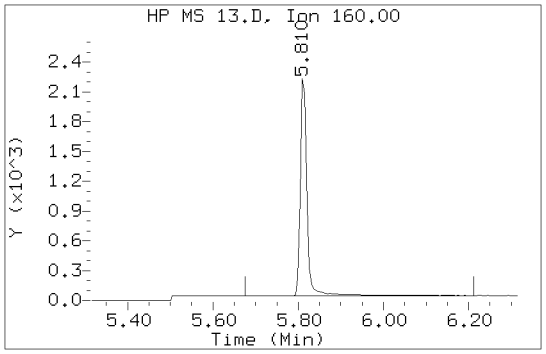
BEFORE

MASS
160
AREA
787
HEIGHT
47
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
160
AREA
2344
HEIGHT
2186
17-May-2024
13:25



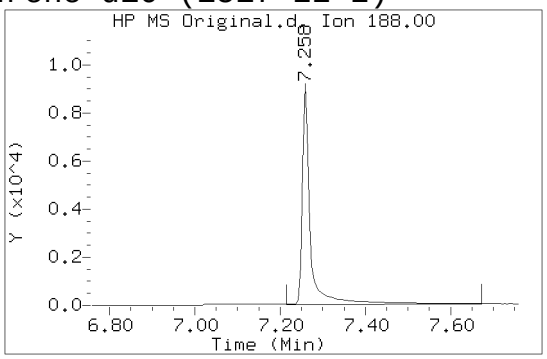
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Inj Date : 16-MAY-2024 17:00
InstruID : SV6.i
LabSampID : LCSD-211587

Phenanthrene-d10 (1517-22-2)

Reason Code:

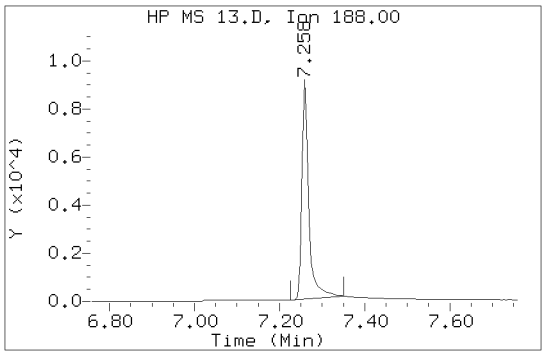
BEFORE

MASS
188
AREA
12589
HEIGHT
9194
16-May-2024
17:16
ALSHS
Server



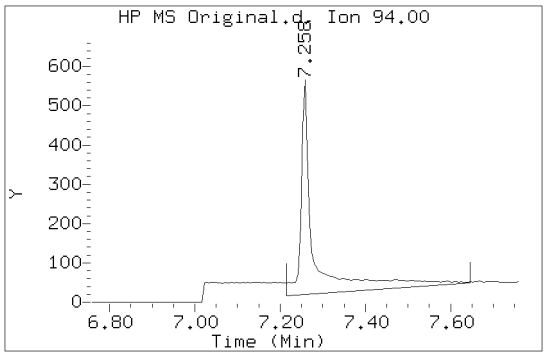
AFTER

MASS
188
AREA
10376
HEIGHT
9126
17-May-2024
13:25



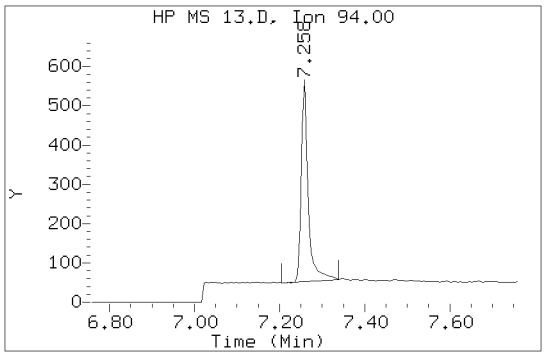
BEFORE

MASS
94
AREA
1141
HEIGHT
545
16-May-2024
17:16
ALSHS
Server



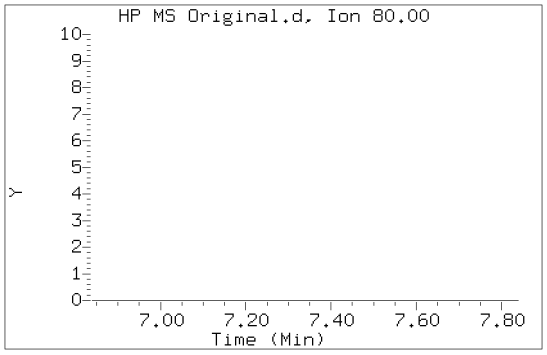
AFTER

MASS
94
AREA
584
HEIGHT
513
17-May-2024
13:25



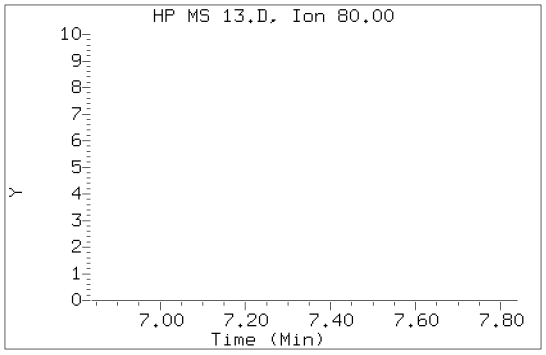
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:25

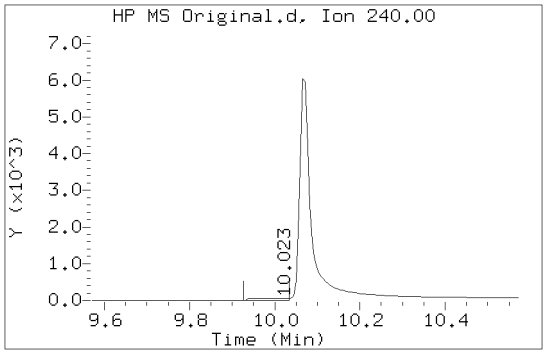


Chrysene-d12 (1719-03-5)

Reason Code:

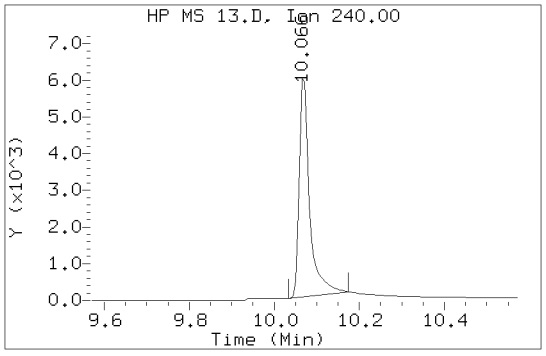
BEFORE

MASS
240
AREA
321
HEIGHT
58
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
240
AREA
10060
HEIGHT
5945
17-May-2024
13:25

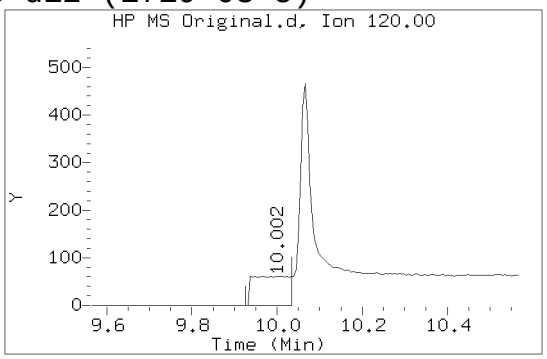


Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Inj Date : 16-MAY-2024 17:00
InstruID : SV6.i
LabSampID : LCSD-211587

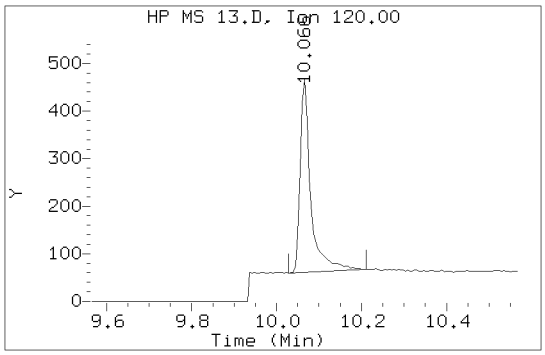
Chrysene-d12 (1719-03-5)

Reason Code:

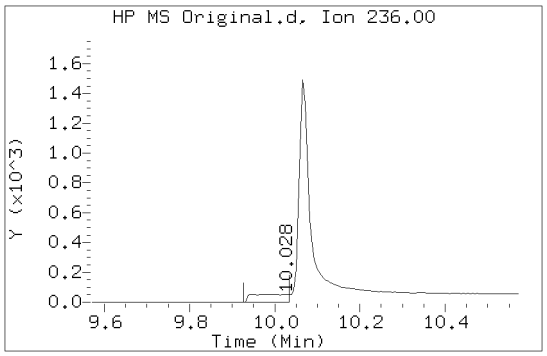
BEFORE
MASS
120
AREA
366
HEIGHT
61
16-May-2024
17:16
ALSHS
Server



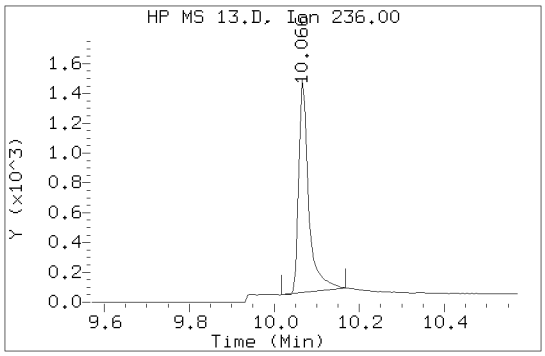
AFTER
MASS
120
AREA
697
HEIGHT
405
17-May-2024
13:25



BEFORE
MASS
236
AREA
308
HEIGHT
52
16-May-2024
17:16
ALSHS
Server



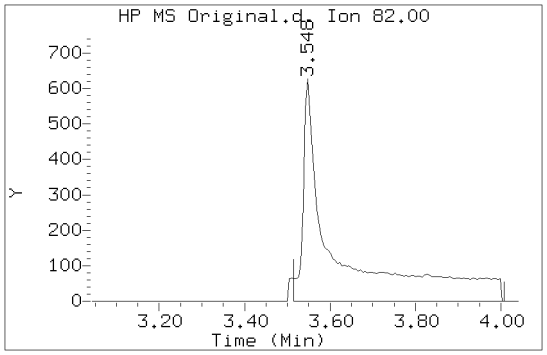
AFTER
MASS
236
AREA
2291
HEIGHT
1425
17-May-2024
13:25



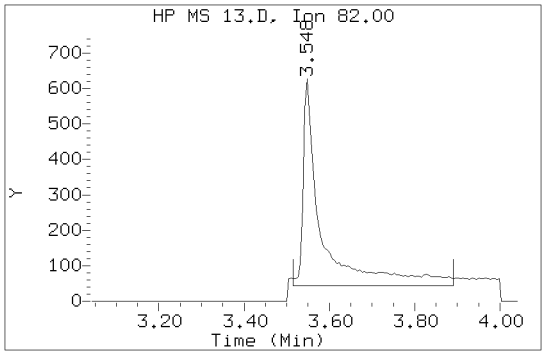
Nitrobenzene-d5 (4165-60-0)

Reason Code:

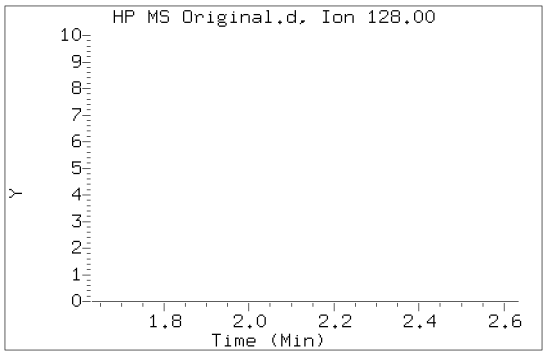
BEFORE
MASS
82
AREA
3164
HEIGHT
627
16-May-2024
17:16
ALSHS
Server



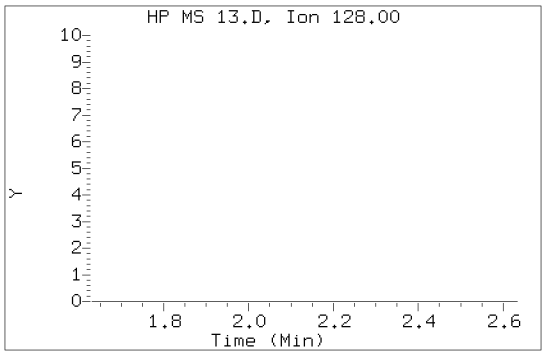
AFTER
MASS
82
AREA
1758
HEIGHT
583
17-May-2024
13:25



BEFORE
MASS
128
AREA
0
HEIGHT
0
16-May-2024
17:16
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:25



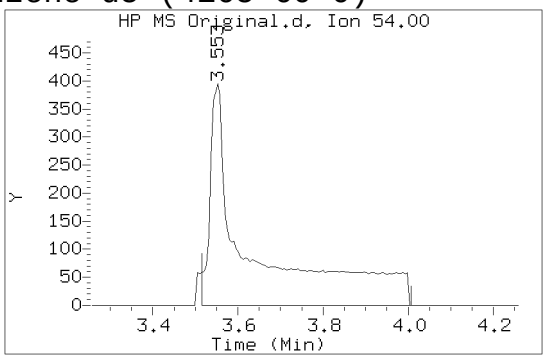
Data File : \\NAHSTWS005\Target\chem\SV6.i\240516A.b\13.D
Inj Date : 16-MAY-2024 17:00
InstruID : SV6.i
LabSampID : LCSD-211587

Nitrobenzene-d5 (4165-60-0)

Reason Code:

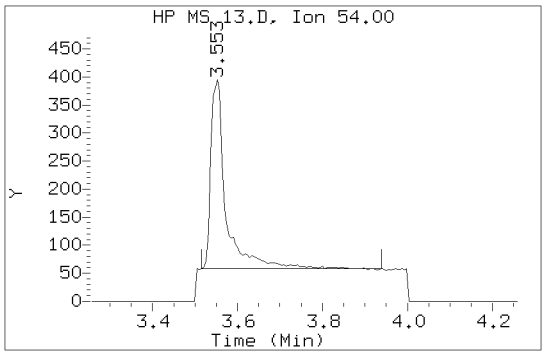
BEFORE

MASS
54
AREA
2522
HEIGHT
395
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
54
AREA
835
HEIGHT
337
17-May-2024
13:25

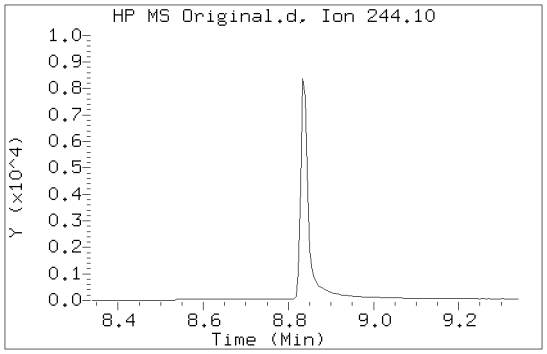


4-Terphenyl-d14 (1718-51-0)

Reason Code:

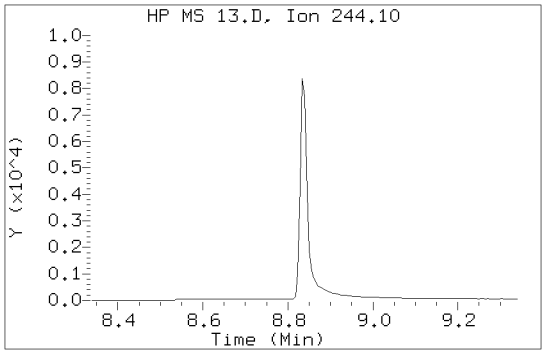
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-May-2024
17:16
ALSHS
Server



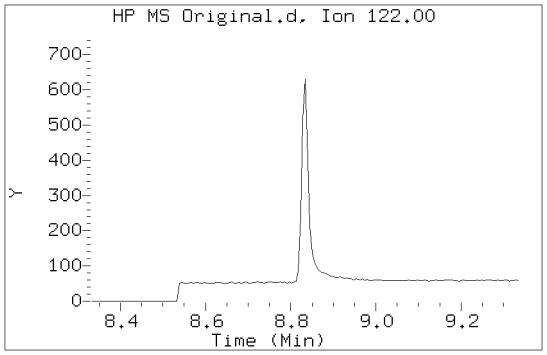
AFTER

MASS
244.1
AREA
12898
HEIGHT
8359
17-May-2024
13:25



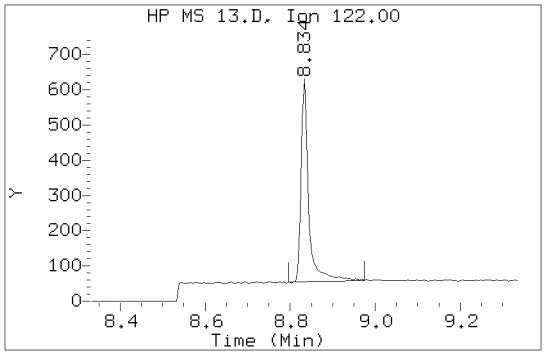
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-May-2024
17:16
ALSHS
Server



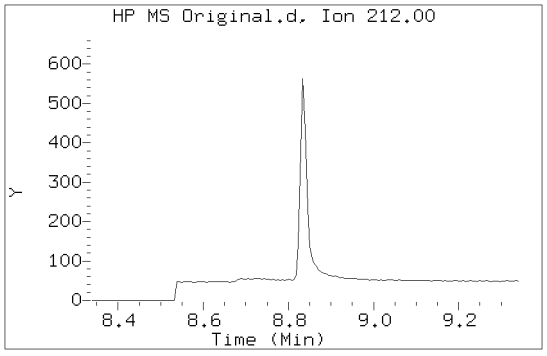
AFTER

MASS
122
AREA
701
HEIGHT
575
17-May-2024
13:25



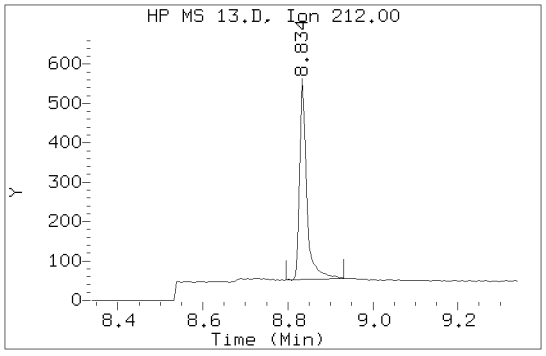
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-May-2024
17:16
ALSHS
Server



AFTER

MASS
212
AREA
587
HEIGHT
510
17-May-2024
13:25



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/20/2024

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

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 17-MAY-2024 12:10
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240517.b\DXSIM.m
Meth Date : 17-May-2024 12:28 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

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	3.064	3.064	(1.000)	3359	0.10000		(aQM)
* 45 Naphthalene-d8	136	4.118	4.118	(1.000)	9288	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.494	3.494	(0.849)	2017	0.08000	0.07234	(M)
* 86 Acenaphthene-d10	164	5.763	5.763	(1.000)	6220	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	5.117	5.117	(0.888)	6397	0.08000	0.06728	(M)
* 126 Phenanthrene-d10	188	7.206	7.206	(1.000)	12361	0.10000		(M)
* 182 Chrysene-d12	240	10.003	10.003	(1.000)	10492	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.782	8.782	(0.878)	15361	0.08000	0.07187	(M)
* 198 Perylene-d12	264	12.030	12.030	(1.000)	11622	0.10000		
1 1,4-Dioxane	58	1.649	1.649	(0.538)	616	0.08000	0.08562	(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\240517.b\03.D

Date : 17-MAY-2024 12:10

Client ID: 14DX-0.08

Instrument: SV6.i

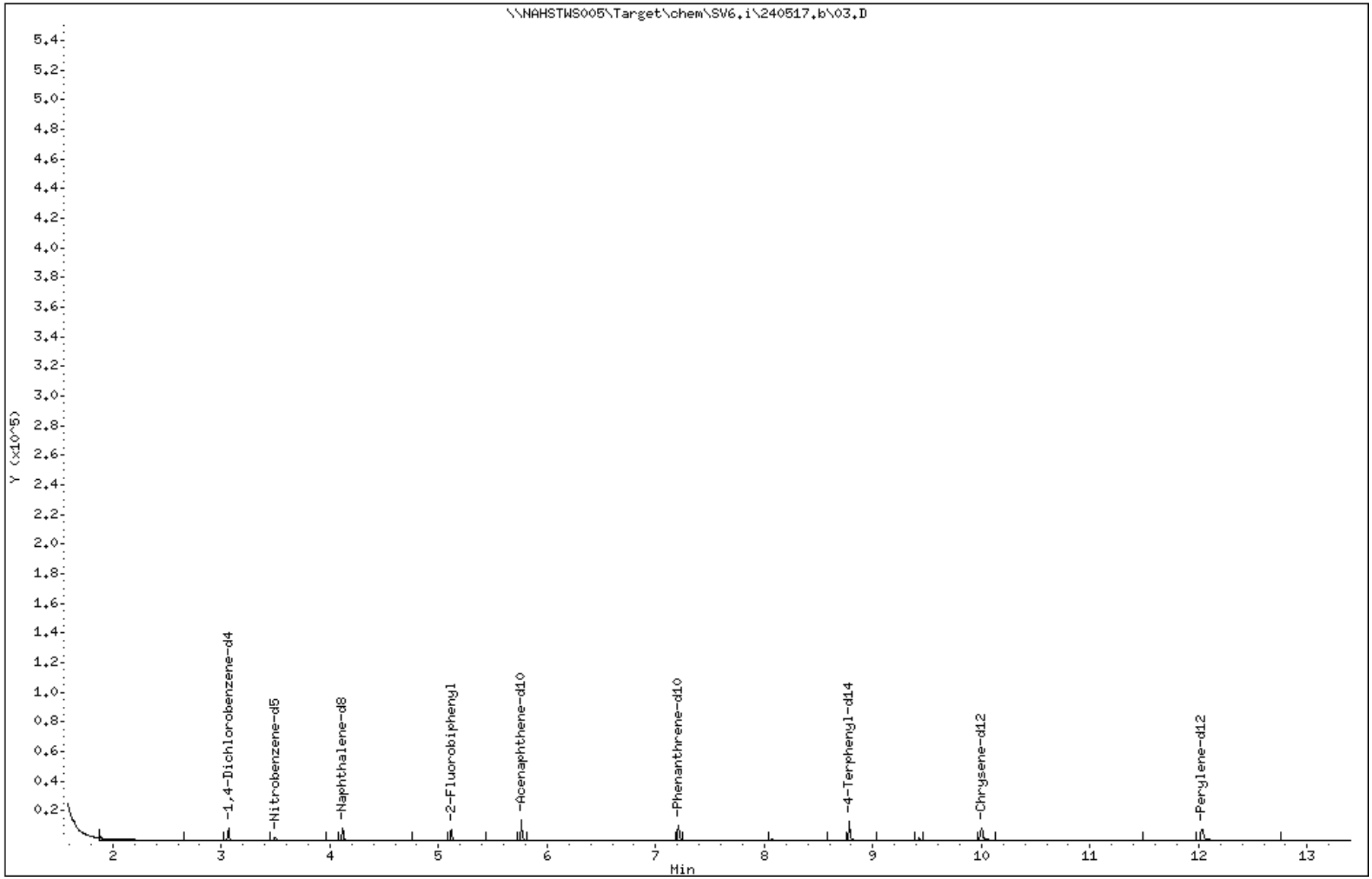
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



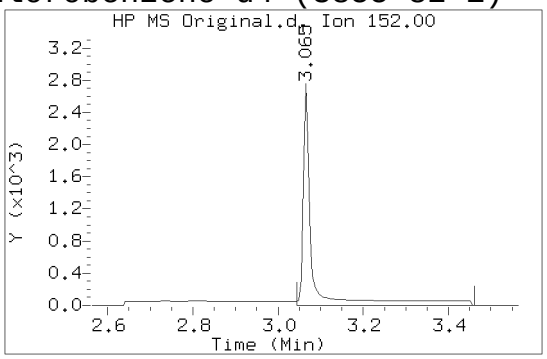
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

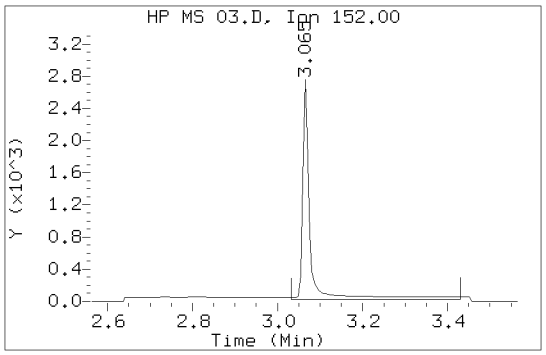
BEFORE

MASS
152
AREA
4050
HEIGHT
2757
17-May-2024
12:25
ALSHS
Server



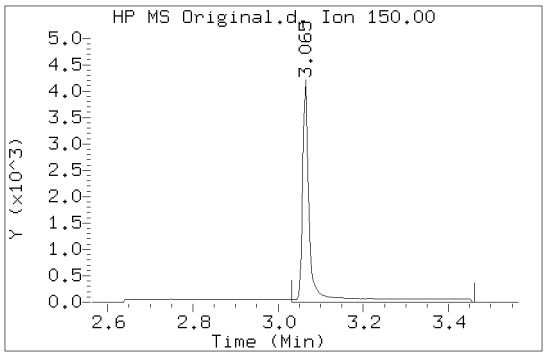
AFTER

MASS
152
AREA
3359
HEIGHT
2730
17-May-2024
12:29



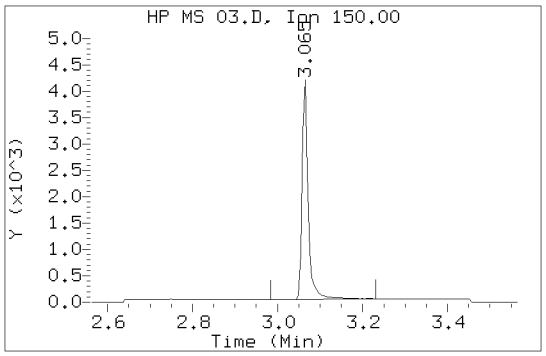
BEFORE

MASS
150
AREA
5696
HEIGHT
4213
17-May-2024
12:25
ALSHS
Server



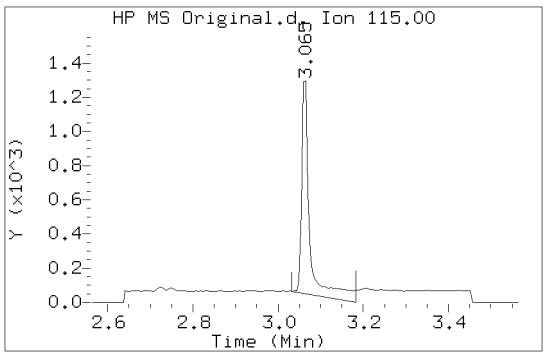
AFTER

MASS
150
AREA
4182
HEIGHT
4158
17-May-2024
12:29



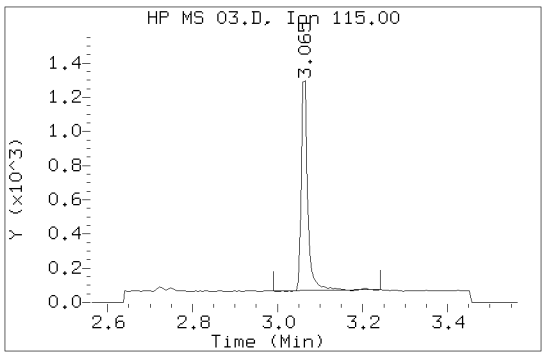
BEFORE

MASS
115
AREA
1680
HEIGHT
1245
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
115
AREA
1327
HEIGHT
1228
17-May-2024
12:29

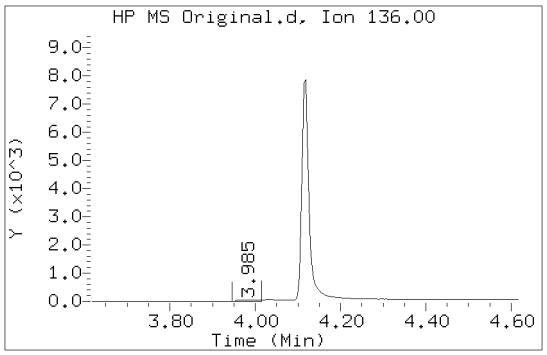


Naphthalene-d8 (1146-65-2)

Reason Code:

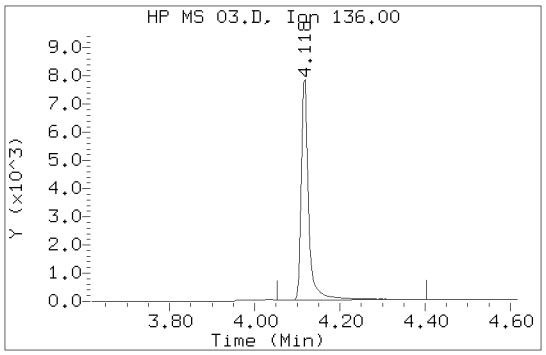
BEFORE

MASS
136
AREA
204
HEIGHT
53
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
136
AREA
9288
HEIGHT
7813
17-May-2024
12:29



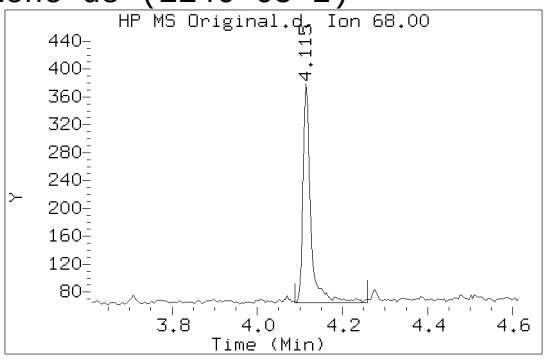
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

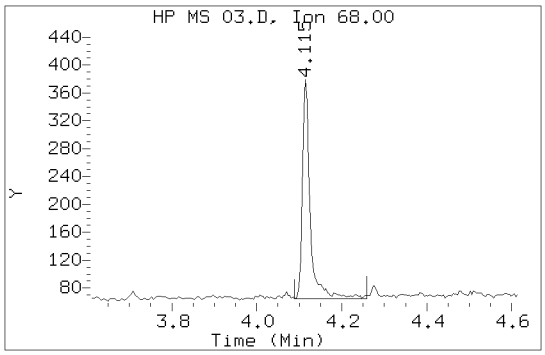
BEFORE

MASS
68
AREA
393
HEIGHT
314
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
68
AREA
393
HEIGHT
314
17-May-2024
12:29

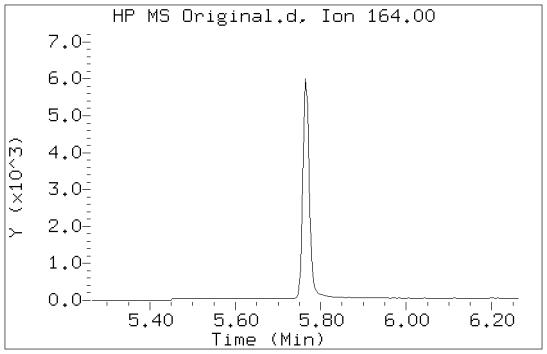


Acenaphthene-d10 (15067-26-2)

Reason Code:

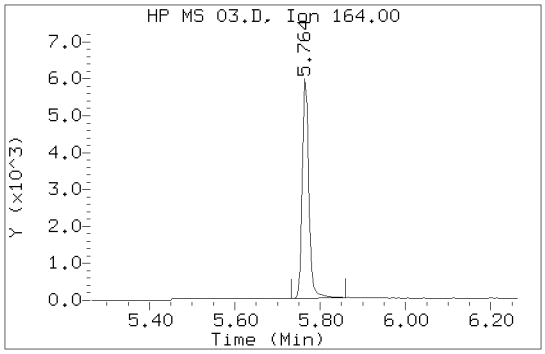
BEFORE

MASS
164
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



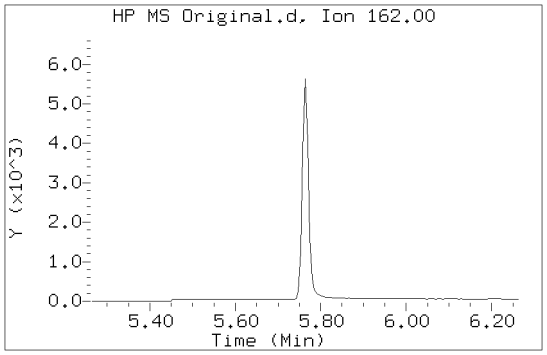
AFTER

MASS
164
AREA
6220
HEIGHT
5944
17-May-2024
12:29



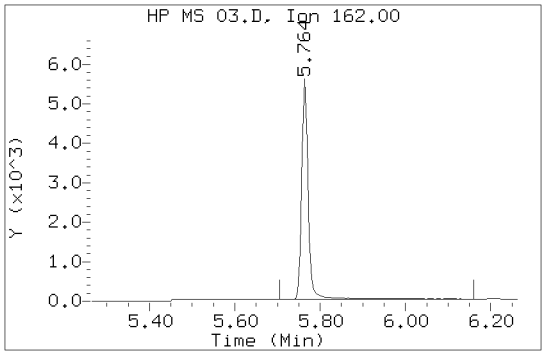
BEFORE

MASS
162
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



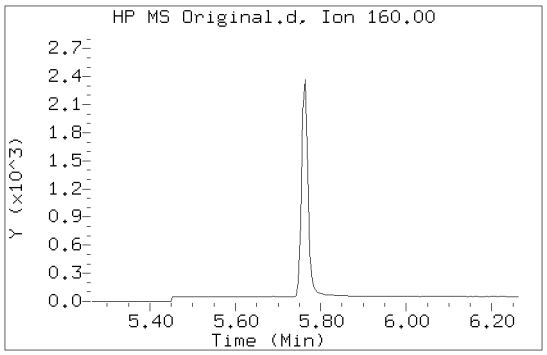
AFTER

MASS
162
AREA
5822
HEIGHT
5581
17-May-2024
12:29



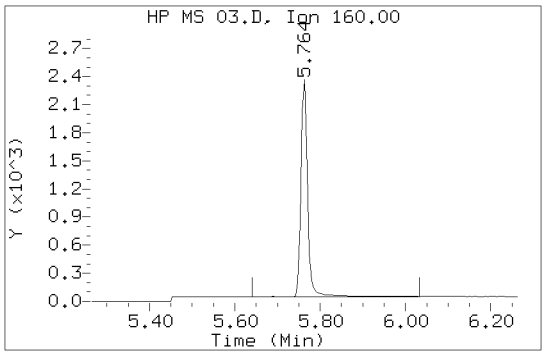
BEFORE

MASS
160
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
160
AREA
2466
HEIGHT
2315
17-May-2024
12:29

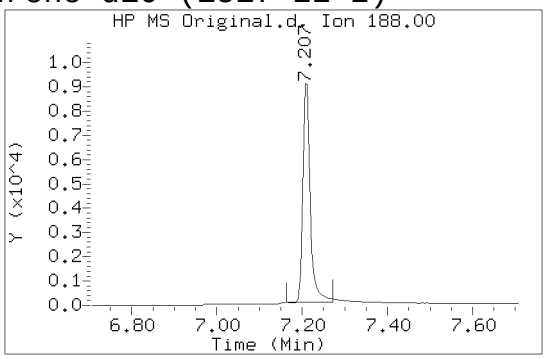


Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

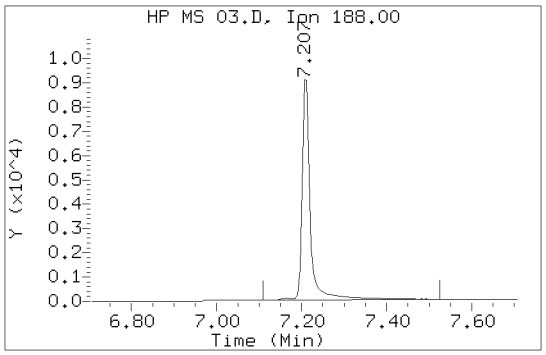
Phenanthrene-d10 (1517-22-2)

Reason Code:

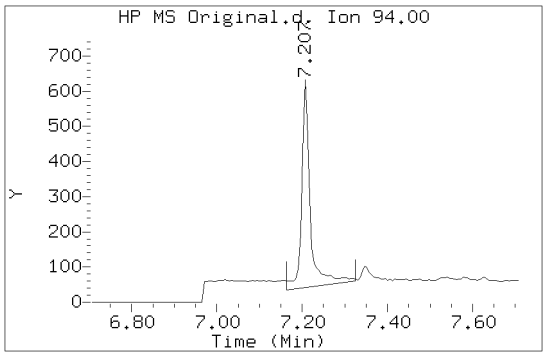
BEFORE
MASS
188
AREA
11133
HEIGHT
9008
17-May-2024
12:25
ALSHS
Server



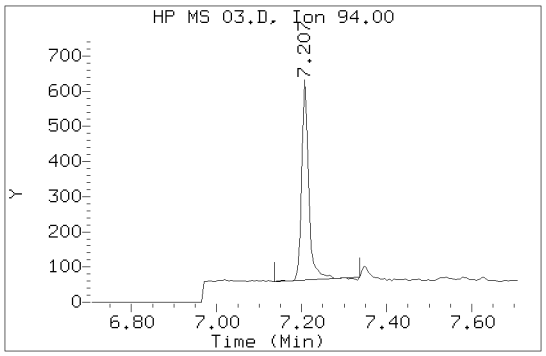
AFTER
MASS
188
AREA
12361
HEIGHT
9069
17-May-2024
12:29



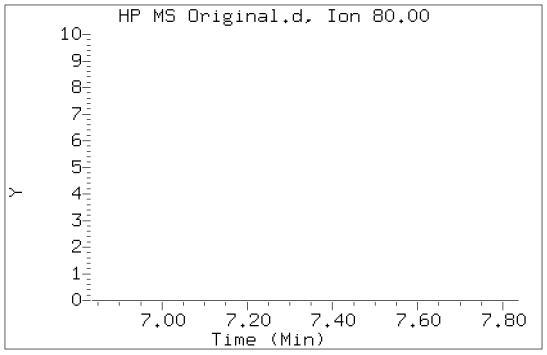
BEFORE
MASS
94
AREA
828
HEIGHT
590
17-May-2024
12:25
ALSHS
Server



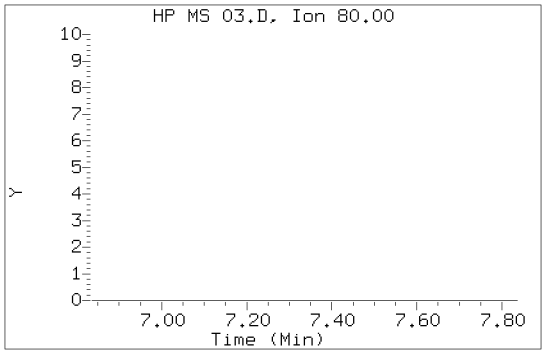
AFTER
MASS
94
AREA
652
HEIGHT
568
17-May-2024
12:29



BEFORE
MASS
80
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



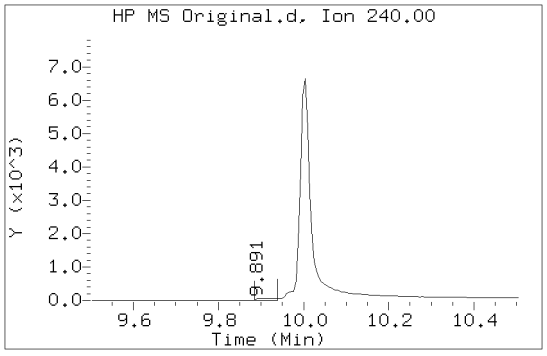
AFTER
MASS
80
AREA
0
HEIGHT
0
17-May-2024
12:29



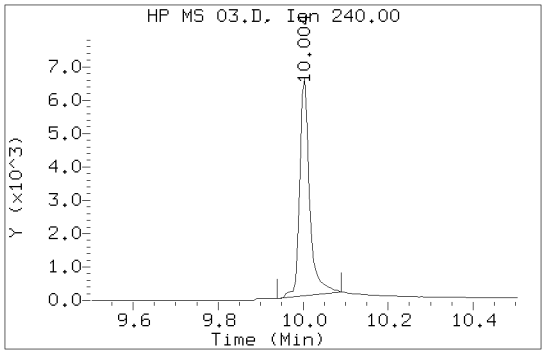
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
170
HEIGHT
54
17-May-2024
12:25
ALSHS
Server



AFTER
MASS
240
AREA
10492
HEIGHT
6506
17-May-2024
12:29



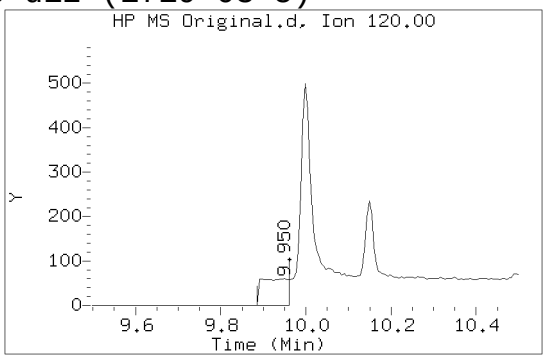
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

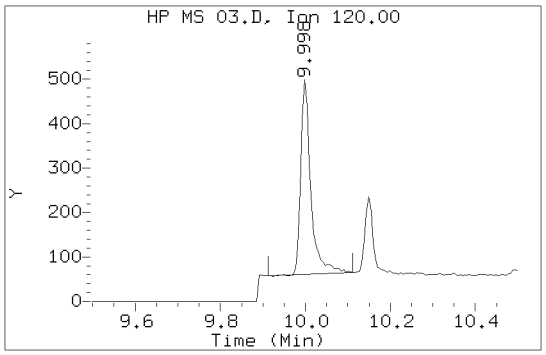
BEFORE

MASS
120
AREA
262
HEIGHT
60
17-May-2024
12:25
ALSHS
Server



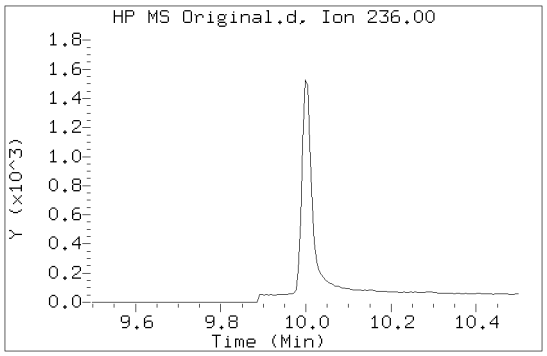
AFTER

MASS
120
AREA
712
HEIGHT
437
17-May-2024
12:29



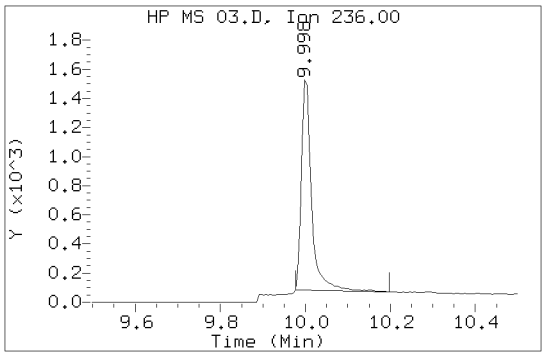
BEFORE

MASS
236
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
236
AREA
2381
HEIGHT
1442
17-May-2024
12:29

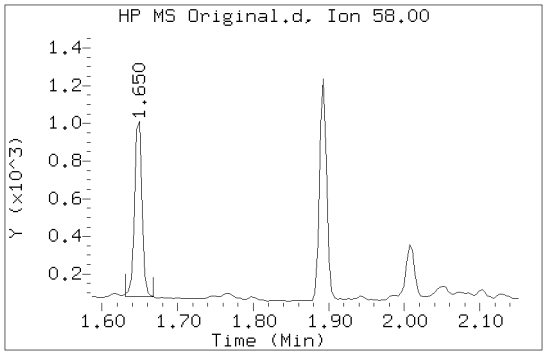


1,4-Dioxane ()

Reason Code:

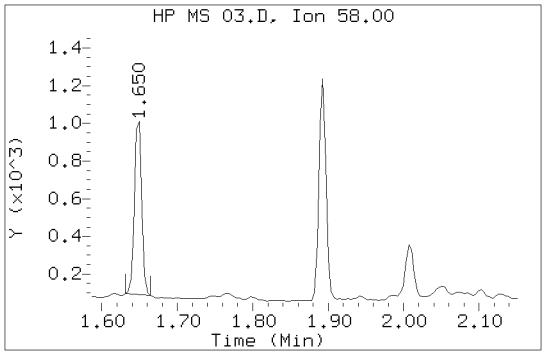
BEFORE

MASS
58
AREA
641
HEIGHT
931
17-May-2024
12:25
ALSHS
Server



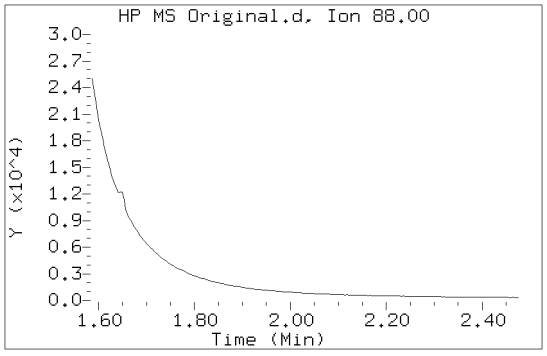
AFTER

MASS
58
AREA
616
HEIGHT
920
17-May-2024
12:29



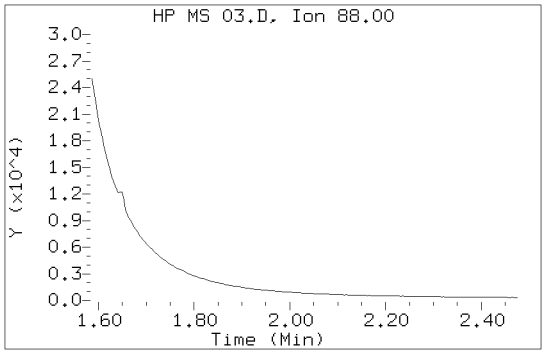
BEFORE

MASS
88
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
17-May-2024
12:29



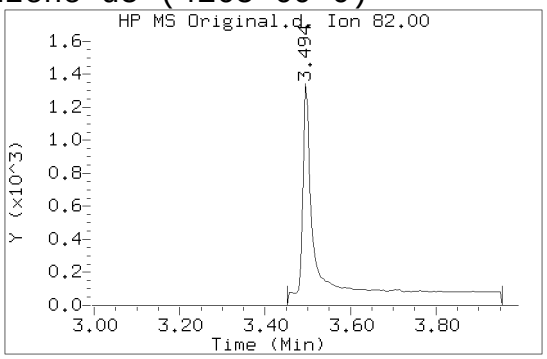
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

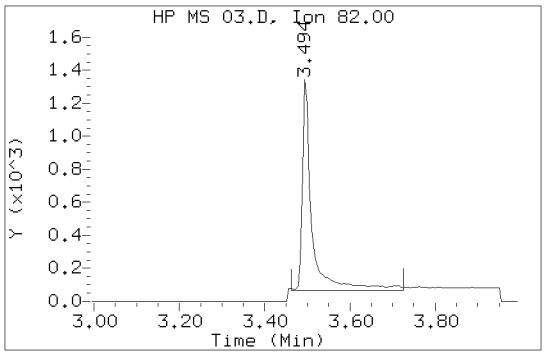
BEFORE

MASS
82
AREA
4244
HEIGHT
1343
17-May-2024
12:25
ALSHS
Server



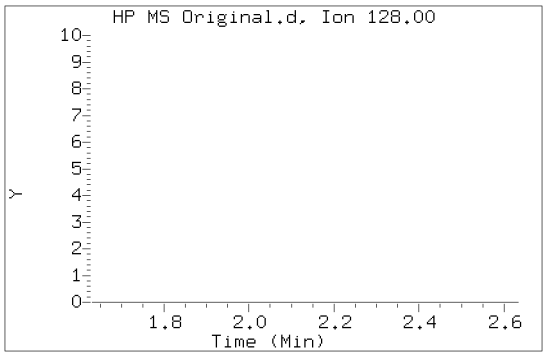
AFTER

MASS
82
AREA
2017
HEIGHT
1276
17-May-2024
12:29



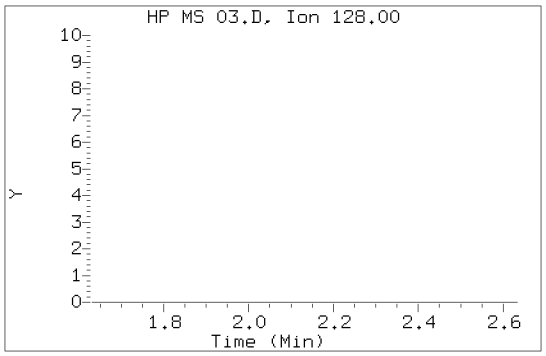
BEFORE

MASS
128
AREA
0
HEIGHT
0
17-May-2024
12:25
ALSHS
Server



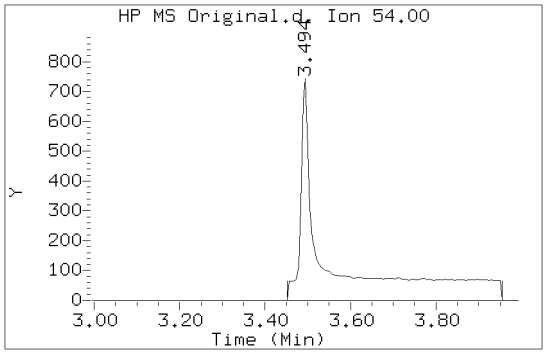
AFTER

MASS
128
AREA
0
HEIGHT
0
17-May-2024
12:29



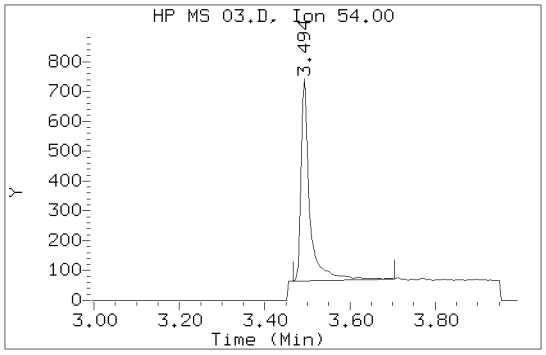
BEFORE

MASS
54
AREA
3011
HEIGHT
743
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
54
AREA
963
HEIGHT
677
17-May-2024
12:29

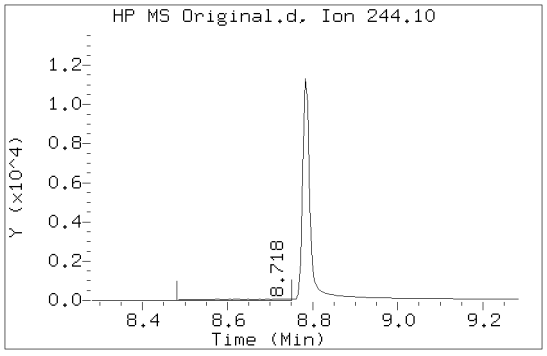


4-Terphenyl-d14 (1718-51-0)

Reason Code:

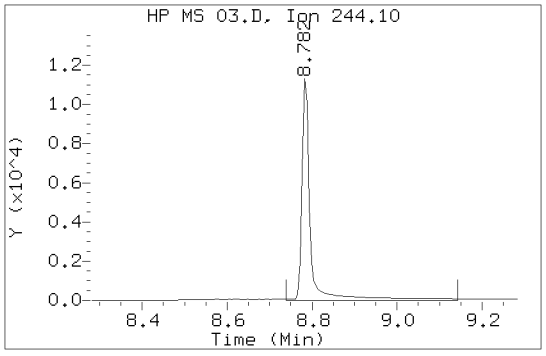
BEFORE

MASS
244.1
AREA
799
HEIGHT
57
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
244.1
AREA
15361
HEIGHT
11296
17-May-2024
12:29



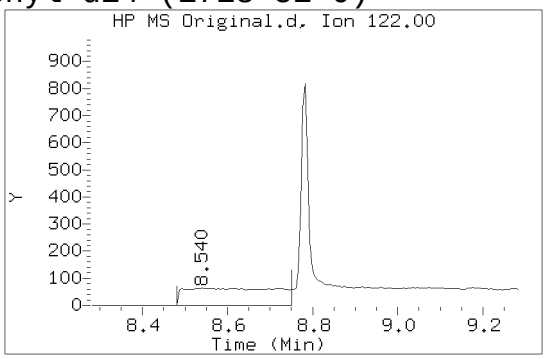
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\03.D
Inj Date : 17-MAY-2024 12:10
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

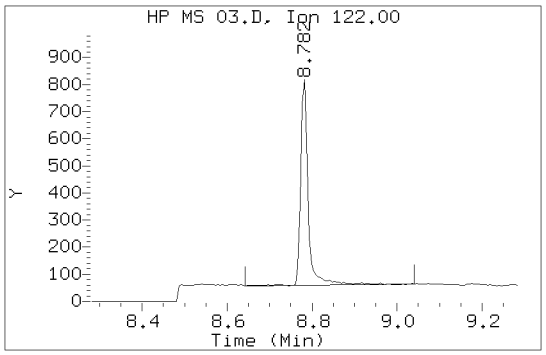
BEFORE

MASS
122
AREA
968
HEIGHT
63
17-May-2024
12:25
ALSHS
Server



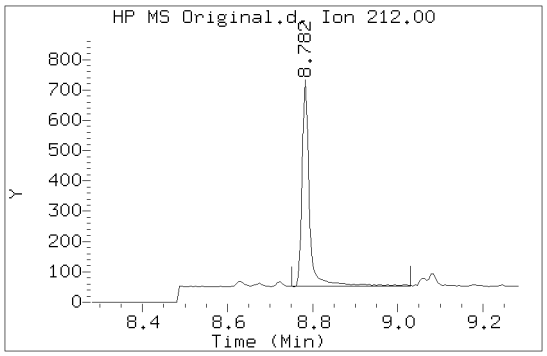
AFTER

MASS
122
AREA
913
HEIGHT
758
17-May-2024
12:29



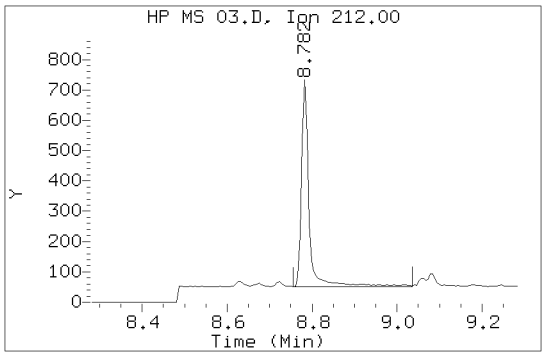
BEFORE

MASS
212
AREA
828
HEIGHT
681
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
212
AREA
845
HEIGHT
682
17-May-2024
12:29

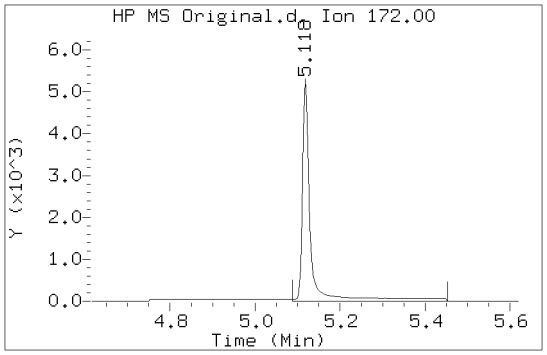


2-Fluorobiphenyl (321-60-8)

Reason Code:

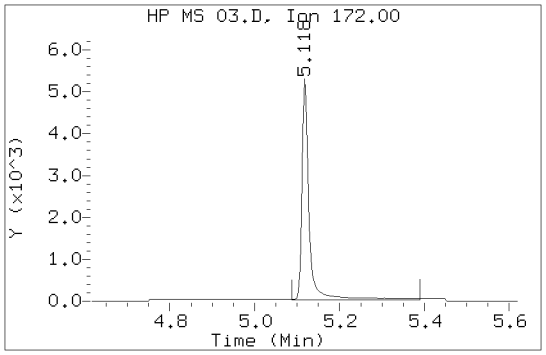
BEFORE

MASS
172
AREA
7050
HEIGHT
5309
17-May-2024
12:25
ALSHS
Server



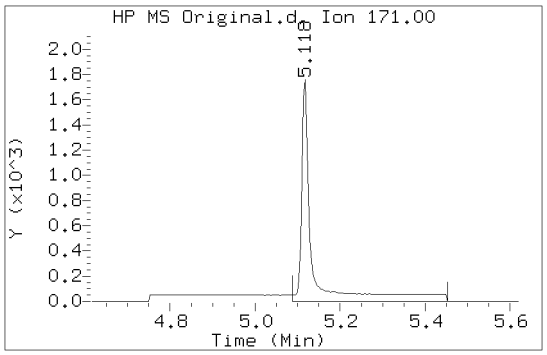
AFTER

MASS
172
AREA
6397
HEIGHT
5285
17-May-2024
12:29



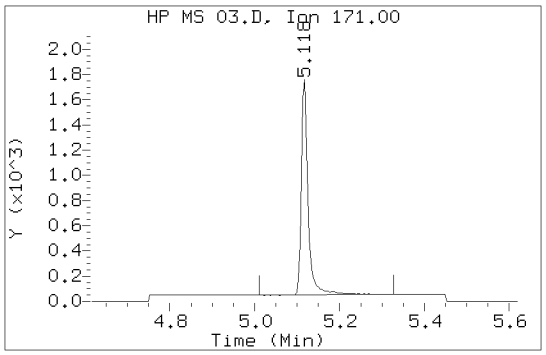
BEFORE

MASS
171
AREA
3078
HEIGHT
1759
17-May-2024
12:25
ALSHS
Server



AFTER

MASS
171
AREA
1895
HEIGHT
1707
17-May-2024
12:29



Data File: \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D Page 1
Report Date: 17-May-2024 13:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Lab Smp Id: HS24050531-01
Inj Date : 17-MAY-2024 12:51
Operator : LG Inst ID: SV6.i
Smp Info : HS24050531-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240517.b\DXSIM.m
Meth Date : 17-May-2024 12:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5
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	3.070	3.064	(1.000)	2347	0.10000	(aM)
* 45 Naphthalene-d8	136	4.118	4.118	(1.000)	7489	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.612	3.494	(0.877)	198	0.00881	0.08807(M)
* 86 Acenaphthene-d10	164	5.763	5.763	(1.000)	5233	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.117	5.117	(0.888)	565	0.00706	0.07063(M)
* 126 Phenanthrene-d10	188	7.206	7.206	(1.000)	9797	0.10000	(M)
* 182 Chrysene-d12	240	9.998	10.003	(1.000)	9057	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.782	8.782	(0.878)	1327	0.00719	0.07192(M)
* 198 Perylene-d12	264	12.030	12.030	(1.000)	9658	0.10000	
1 1,4-Dioxane	58	1.660	1.649	(0.541)	593	0.11796	1.180

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\240517.b\05.D

Date : 17-MAY-2024 12:51

Client ID:

Instrument: SV6.i

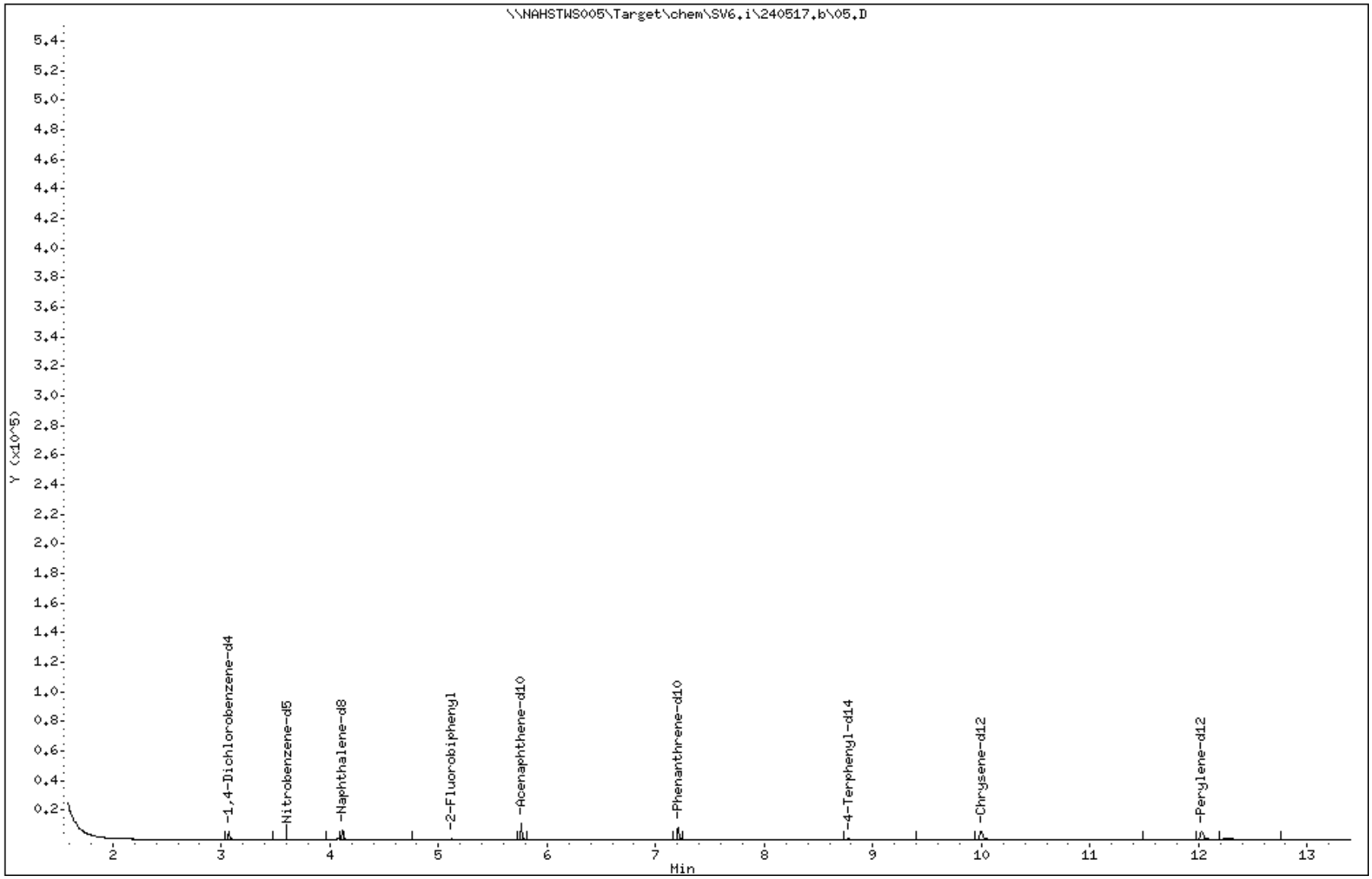
Sample Info: HS24050531-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D

Date : 17-MAY-2024 12:51

Client ID:

Instrument: SV6.i

Sample Info: HS24050531-01X10

Purge Volume: 1000.0

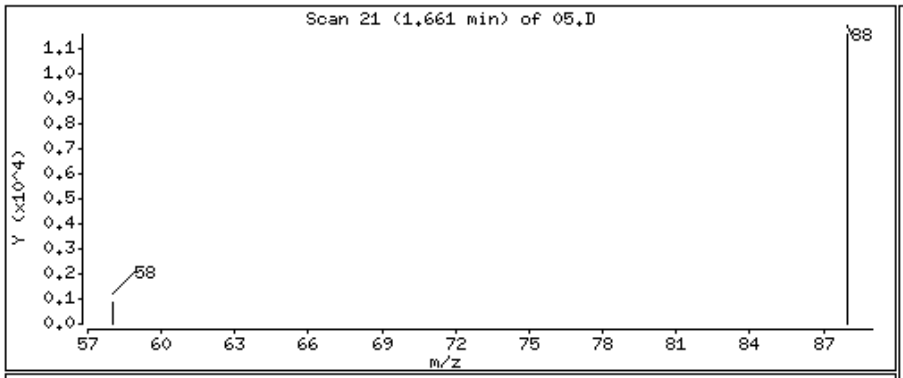
Operator: LG

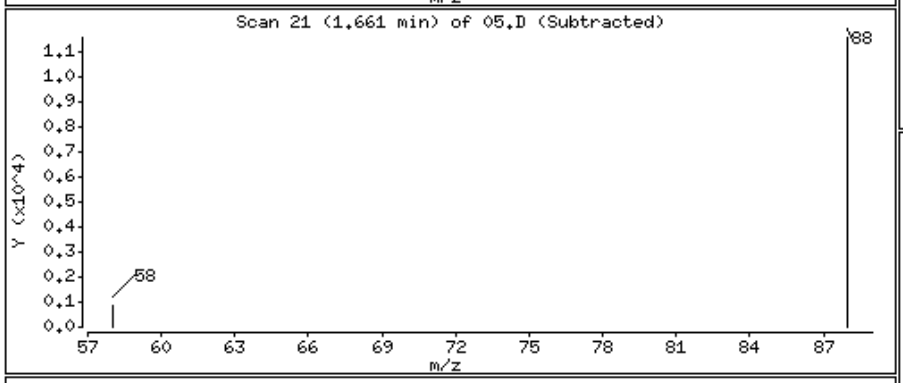
Column phase: RTX-5SIL MS

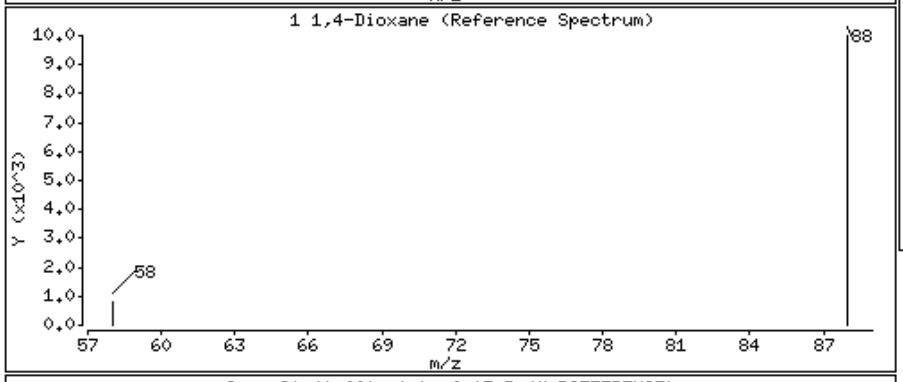
Column diameter: 0.28

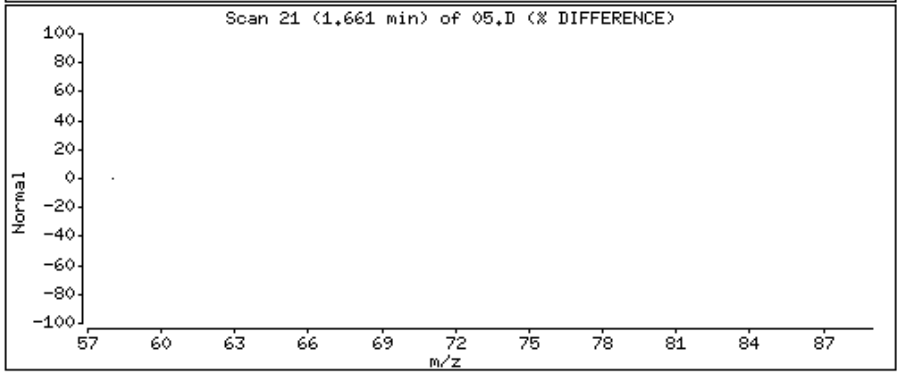
1 1,4-Dioxane

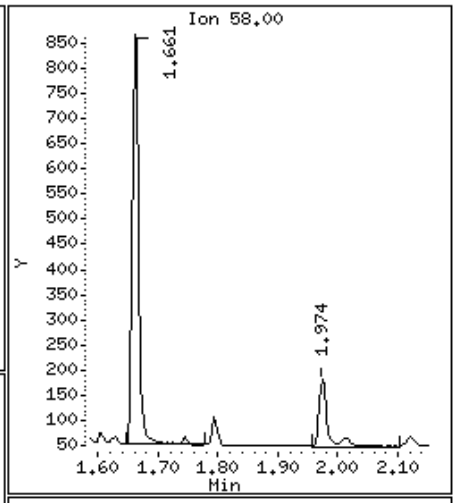
Concentration: 1.180 ug/L

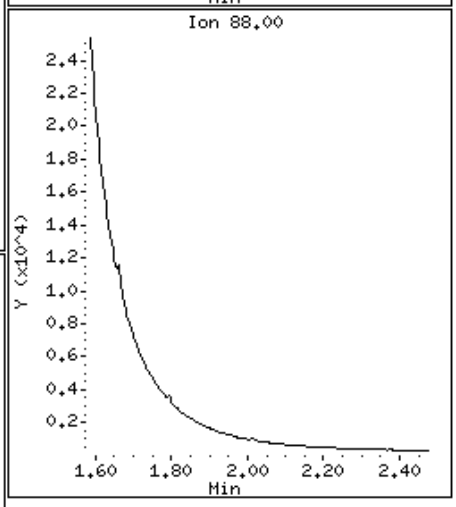












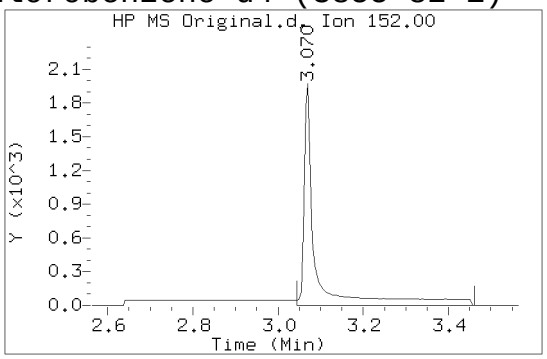
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

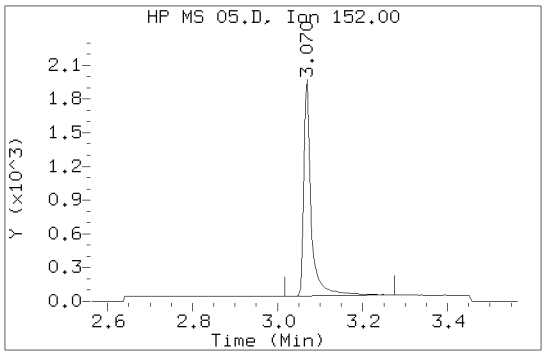
BEFORE

MASS
152
AREA
3675
HEIGHT
1972
17-May-2024
13:05
ALSHS
Server



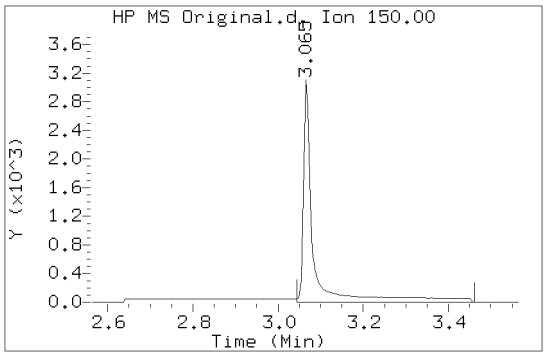
AFTER

MASS
152
AREA
2347
HEIGHT
1923
17-May-2024
13:53



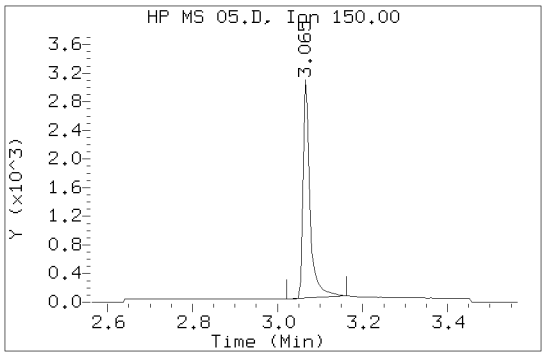
BEFORE

MASS
150
AREA
5110
HEIGHT
3106
17-May-2024
13:05
ALSHS
Server



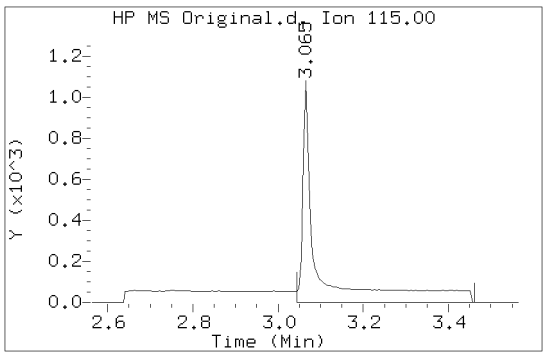
AFTER

MASS
150
AREA
3476
HEIGHT
3046
17-May-2024
13:53



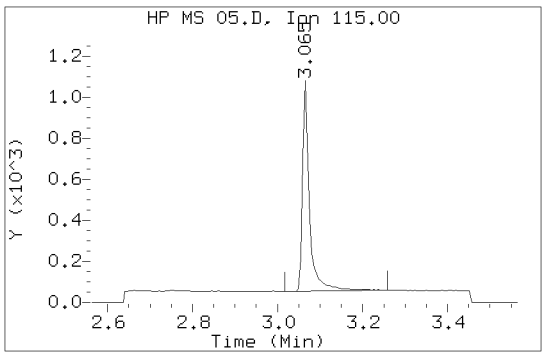
BEFORE

MASS
115
AREA
2604
HEIGHT
1082
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
115
AREA
1178
HEIGHT
1027
17-May-2024
13:53

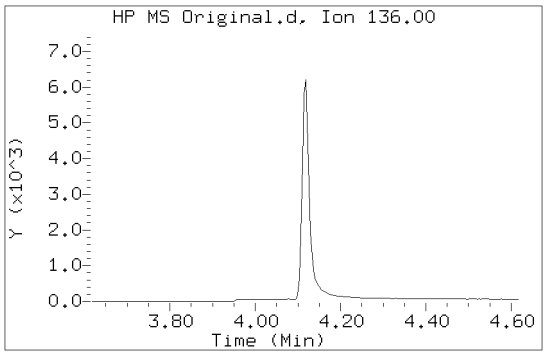


Naphthalene-d8 (1146-65-2)

Reason Code:

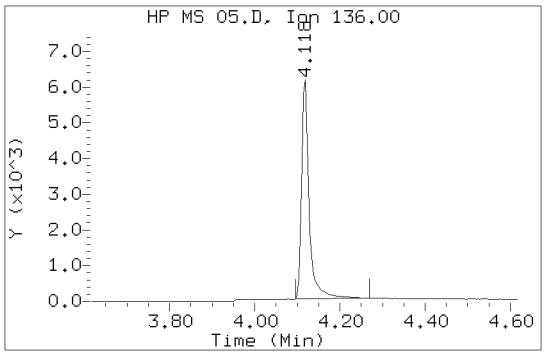
BEFORE

MASS
136
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
136
AREA
7489
HEIGHT
6137
17-May-2024
13:53



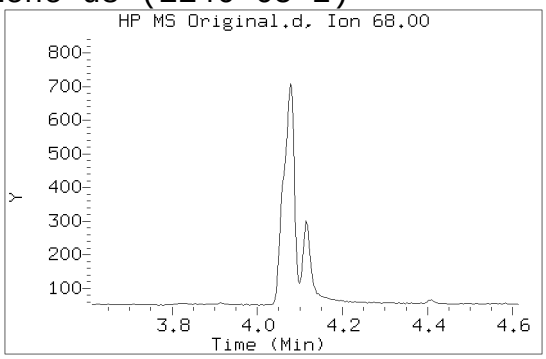
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

Naphthalene-d8 (1146-65-2)

Reason Code:

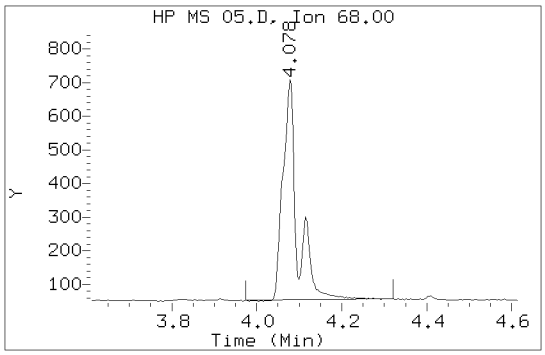
BEFORE

MASS
68
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
68
AREA
1512
HEIGHT
654
17-May-2024
13:53

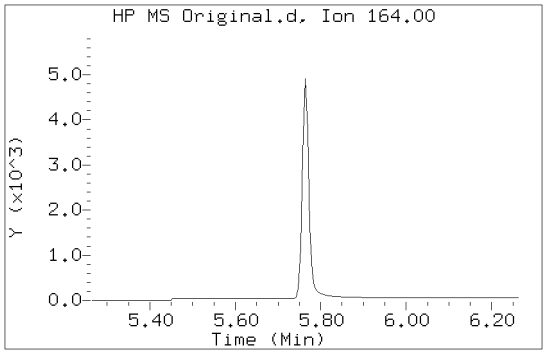


Acenaphthene-d10 (15067-26-2)

Reason Code:

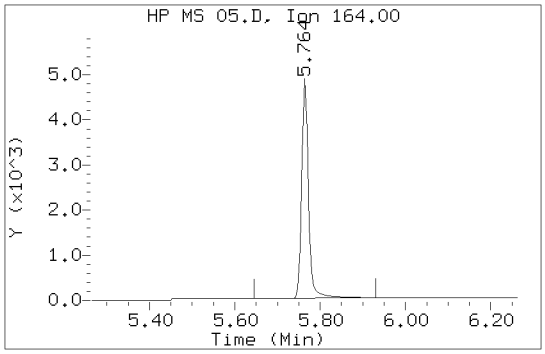
BEFORE

MASS
164
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



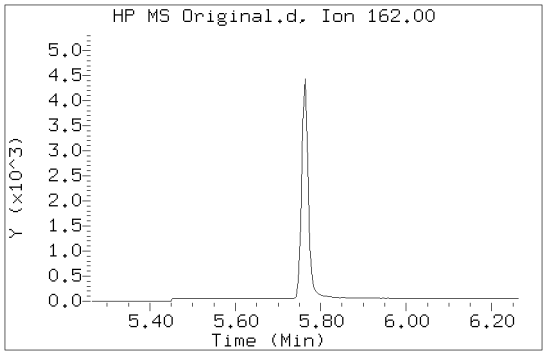
AFTER

MASS
164
AREA
5233
HEIGHT
4862
17-May-2024
13:53



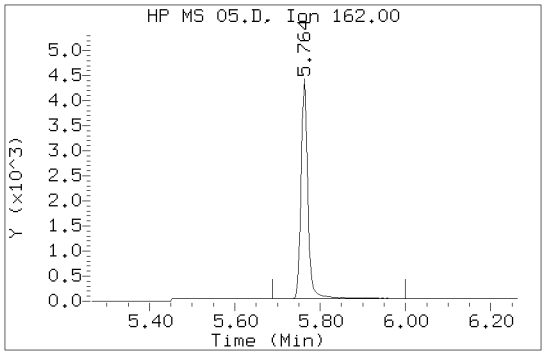
BEFORE

MASS
162
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



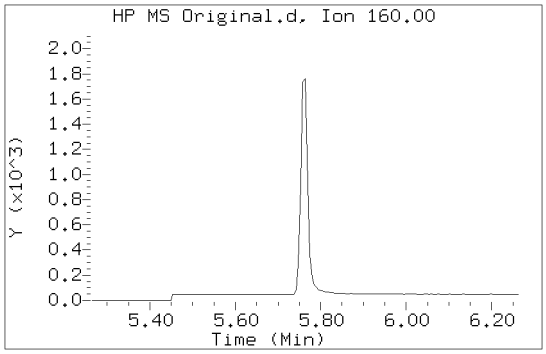
AFTER

MASS
162
AREA
4797
HEIGHT
4387
17-May-2024
13:53



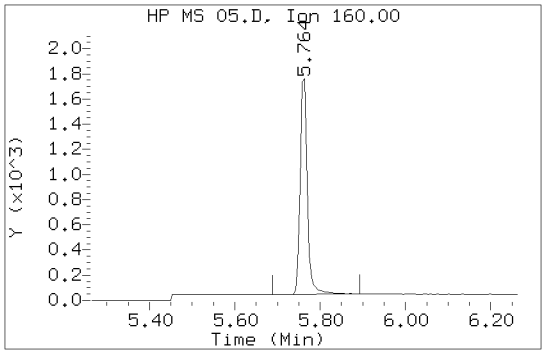
BEFORE

MASS
160
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
160
AREA
1994
HEIGHT
1713
17-May-2024
13:53



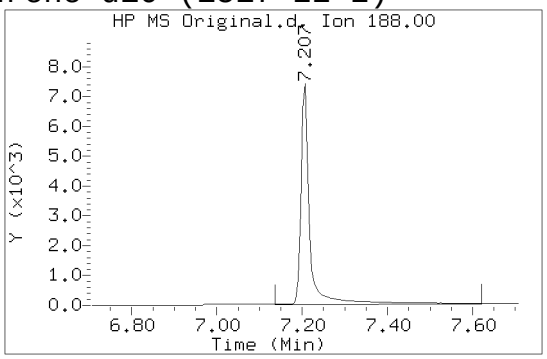
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

Phenanthrene-d10 (1517-22-2)

Reason Code:

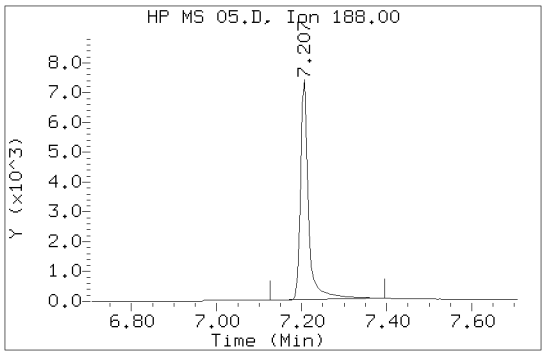
BEFORE

MASS
188
AREA
11089
HEIGHT
7411
17-May-2024
13:05
ALSHS
Server



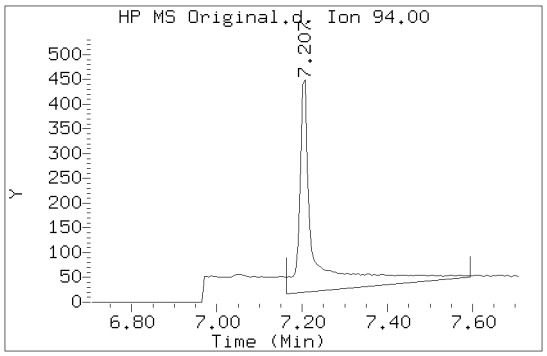
AFTER

MASS
188
AREA
9797
HEIGHT
7372
17-May-2024
13:53



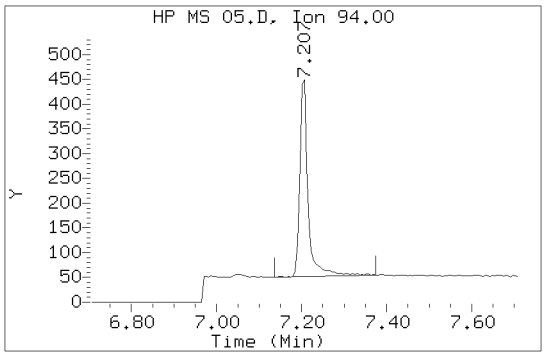
BEFORE

MASS
94
AREA
1047
HEIGHT
428
17-May-2024
13:05
ALSHS
Server



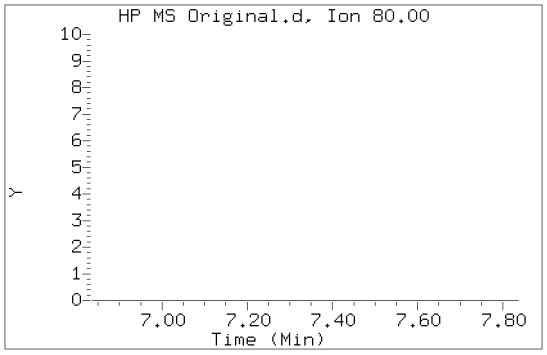
AFTER

MASS
94
AREA
536
HEIGHT
396
17-May-2024
13:53



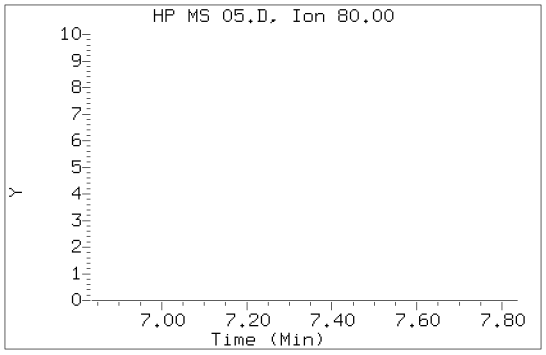
BEFORE

MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:53

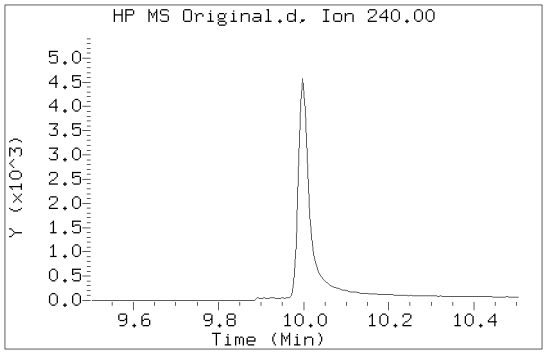


Chrysene-d12 (1719-03-5)

Reason Code:

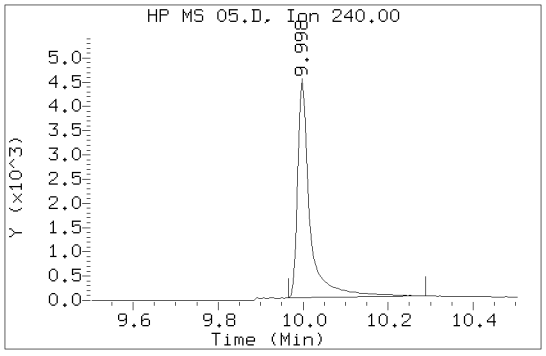
BEFORE

MASS
240
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
240
AREA
9057
HEIGHT
4515
17-May-2024
13:53



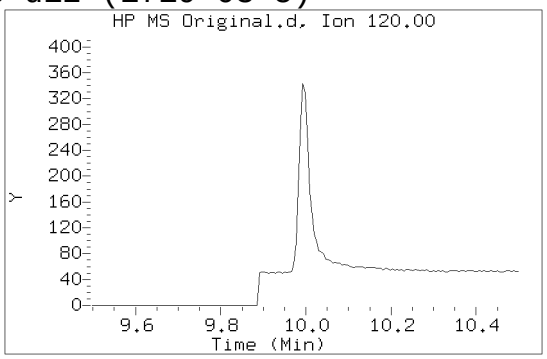
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

Chrysene-d12 (1719-03-5)

Reason Code:

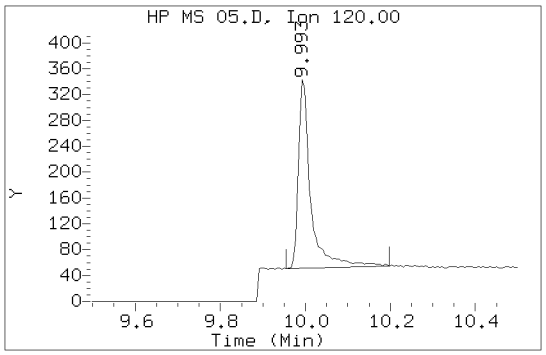
BEFORE

MASS
120
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



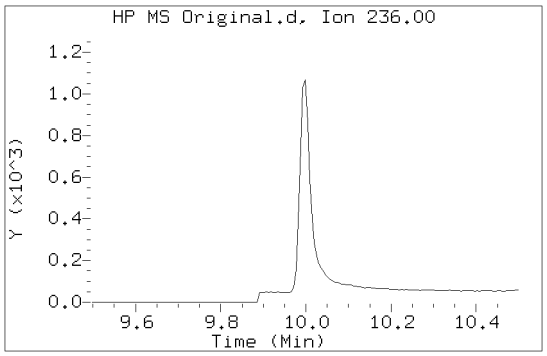
AFTER

MASS
120
AREA
582
HEIGHT
291
17-May-2024
13:53



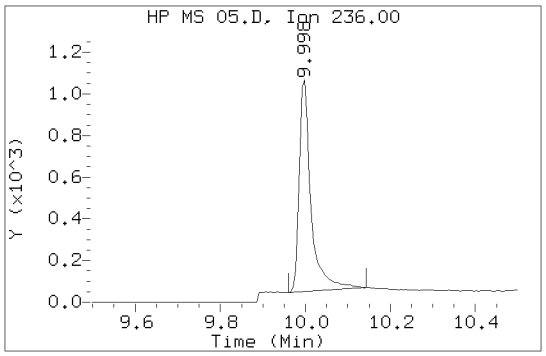
BEFORE

MASS
236
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
236
AREA
1941
HEIGHT
1015
17-May-2024
13:53

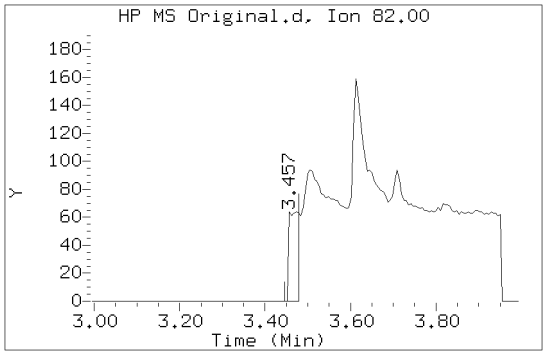


Nitrobenzene-d5 (4165-60-0)

Reason Code:

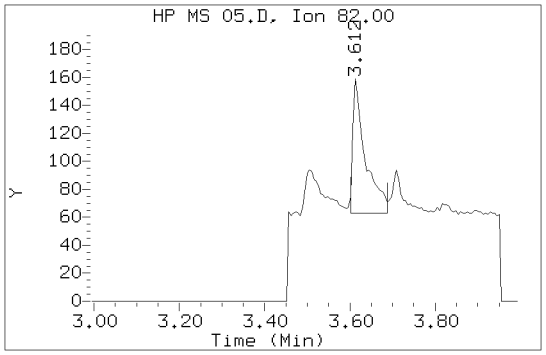
BEFORE

MASS
82
AREA
101
HEIGHT
64
17-May-2024
13:05
ALSHS
Server



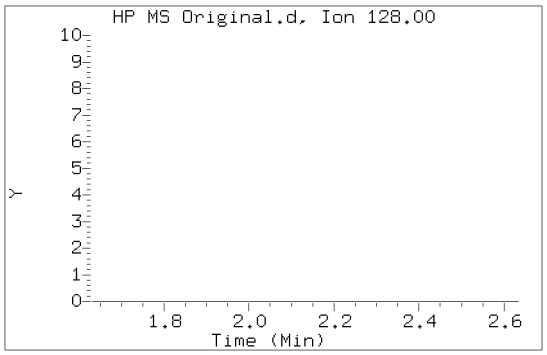
AFTER

MASS
82
AREA
198
HEIGHT
96
17-May-2024
13:53



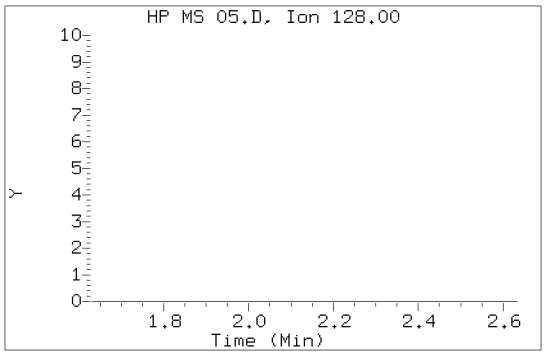
BEFORE

MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:53



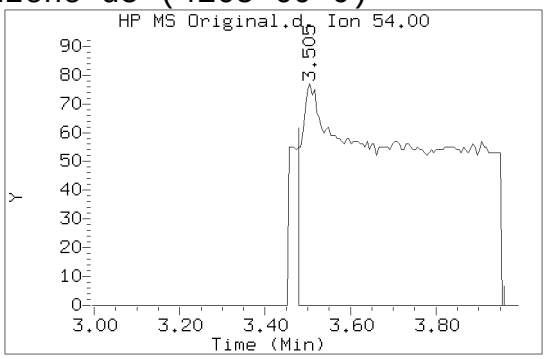
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

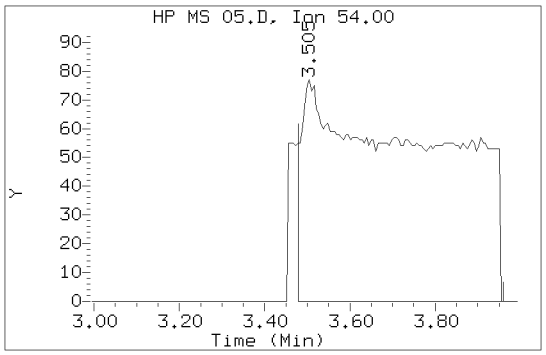
BEFORE

MASS
54
AREA
1617
HEIGHT
77
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
54
AREA
1617
HEIGHT
77
17-May-2024
13:53

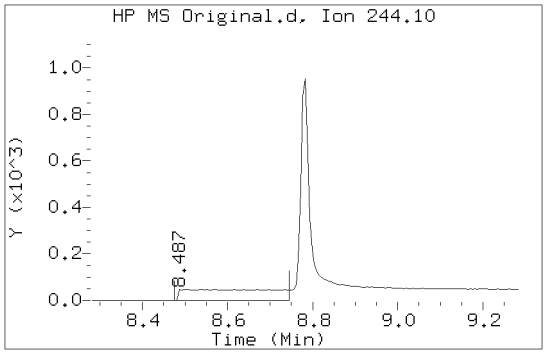


4-Terphenyl-d14 (1718-51-0)

Reason Code:

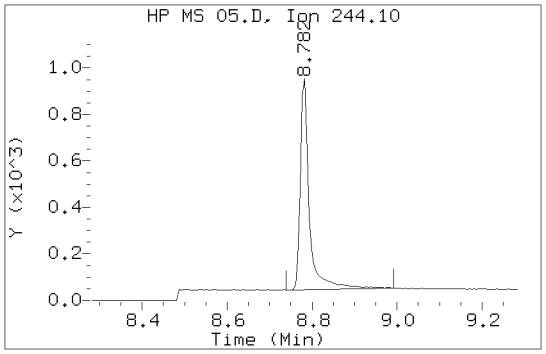
BEFORE

MASS
244.1
AREA
716
HEIGHT
46
17-May-2024
13:05
ALSHS
Server



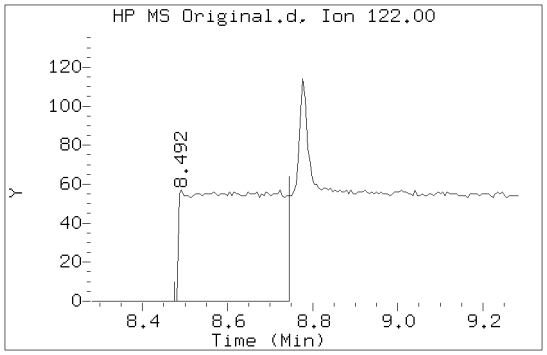
AFTER

MASS
244.1
AREA
1327
HEIGHT
907
17-May-2024
13:53



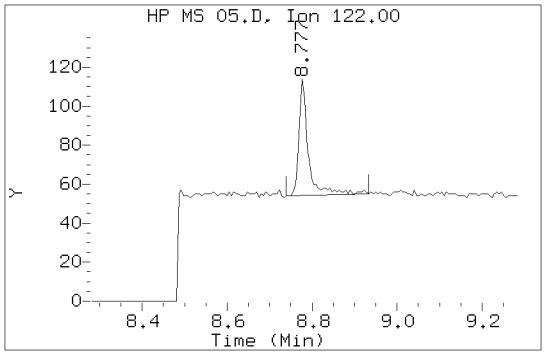
BEFORE

MASS
122
AREA
866
HEIGHT
57
17-May-2024
13:05
ALSHS
Server



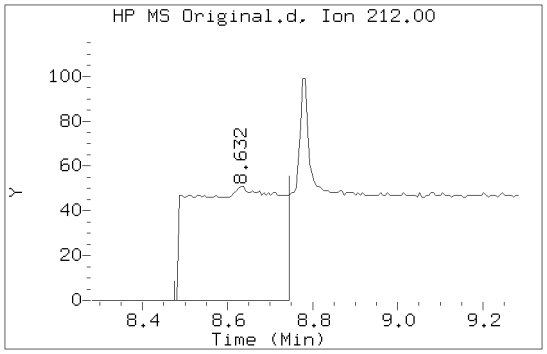
AFTER

MASS
122
AREA
91
HEIGHT
59
17-May-2024
13:53



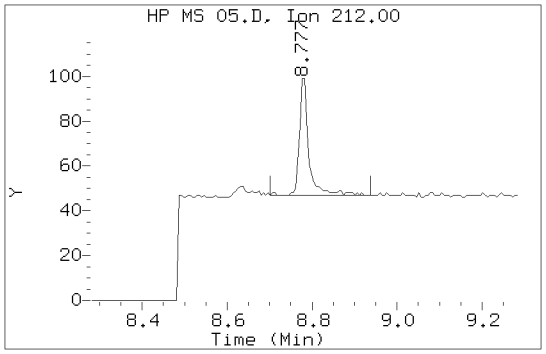
BEFORE

MASS
212
AREA
747
HEIGHT
51
17-May-2024
13:05
ALSHS
Server



AFTER

MASS
212
AREA
79
HEIGHT
52
17-May-2024
13:53

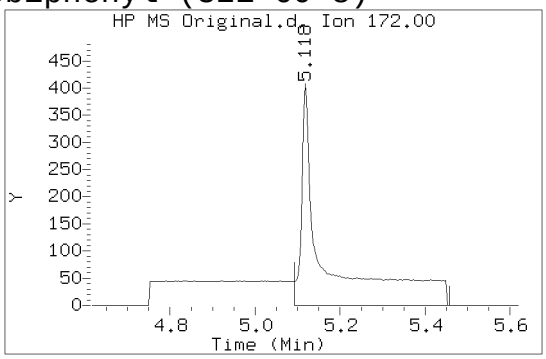


Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\05.D
Inj Date : 17-MAY-2024 12:51
InstruID : SV6.i
LabSampID : HS24050531-01

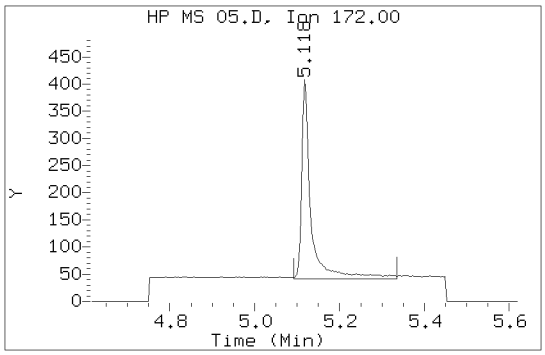
2-Fluorobiphenyl (321-60-8)

Reason Code:

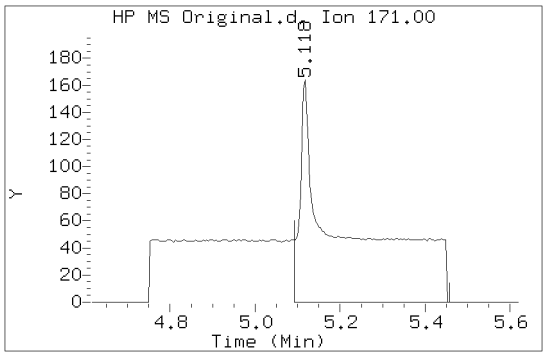
BEFORE
MASS
172
AREA
1494
HEIGHT
408
17-May-2024
13:05
ALSHS
Server



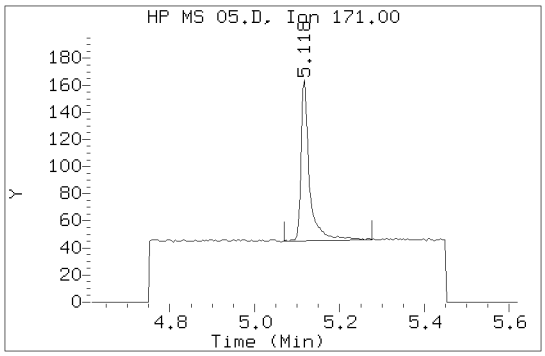
AFTER
MASS
172
AREA
565
HEIGHT
367
17-May-2024
13:53



BEFORE
MASS
171
AREA
1165
HEIGHT
164
17-May-2024
13:05
ALSHS
Server



AFTER
MASS
171
AREA
167
HEIGHT
118
17-May-2024
13:53



Data File: \\NAHSTWS005\Target\chem\SV6.i\240517.b\06.D Page 1
Report Date: 19-Jun-2024 14:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240517.b\06.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 17-MAY-2024 13:21
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240517.b\DXSIM.m
Meth Date : 19-Jun-2024 14:13 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6 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	3.065	3.065	(1.000)	3729	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.118	4.118	(1.000)	7222	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.499	3.499	(0.850)	1526	0.08000	0.07038(M)
* 86 Acenaphthene-d10	164	5.769	5.769	(1.000)	5272	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.121	5.121	(0.926)	6180	0.08000	0.07668
* 126 Phenanthrene-d10	188	7.212	7.212	(1.000)	9252	0.10000	(M)
* 182 Chrysene-d12	240	10.003	10.003	(1.000)	7402	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.787	8.787	(0.878)	11123	0.08000	0.07376(M)
* 198 Perylene-d12	264	12.035	12.035	(1.000)	8273	0.10000	(M)
1 1,4-Dioxane	58	1.638	1.638	(0.535)	637	0.08000	0.07975(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\240517.b\06.D

Date : 17-MAY-2024 13:21

Client ID: 14DX-0.08

Instrument: SV6.i

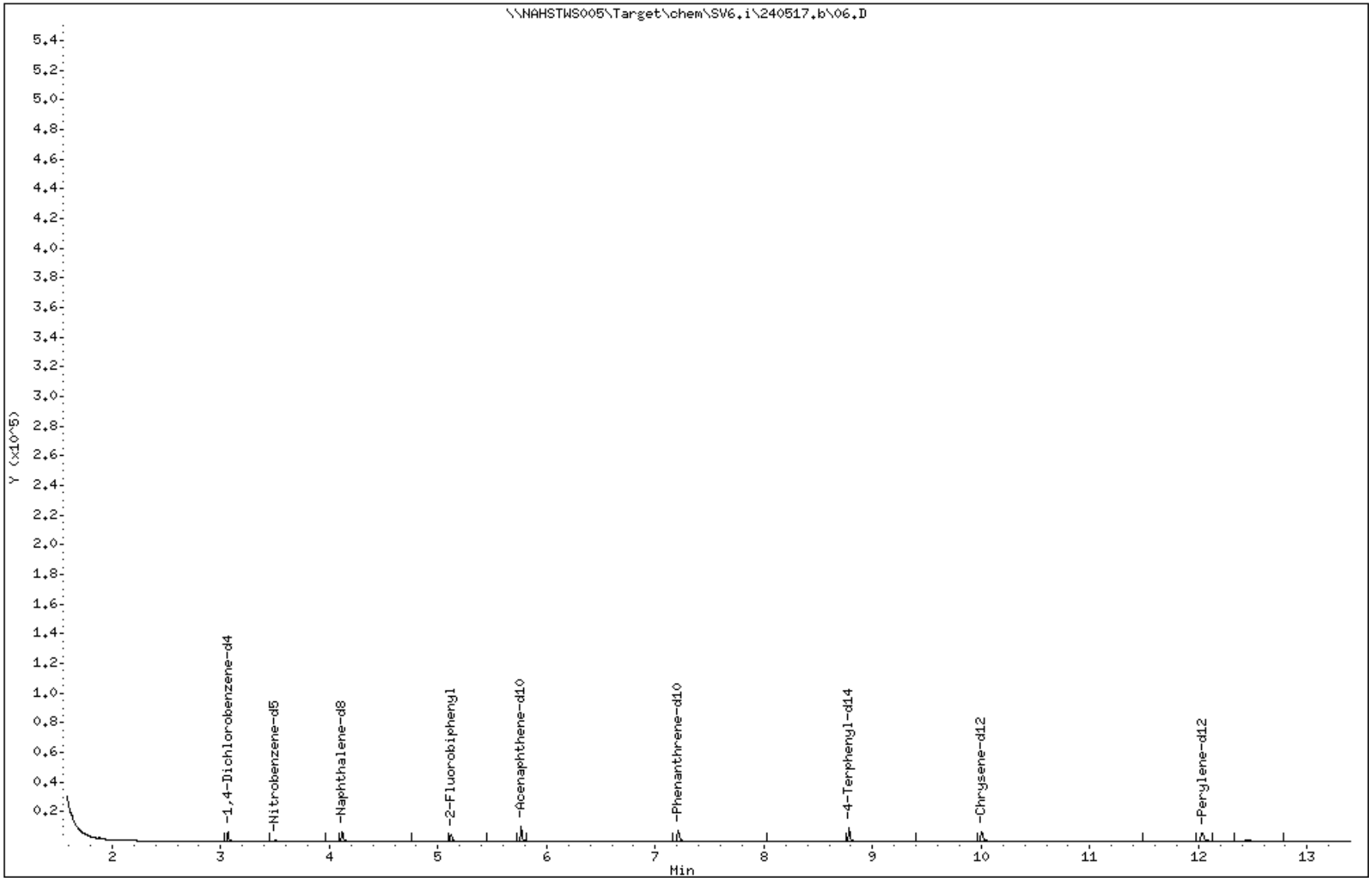
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

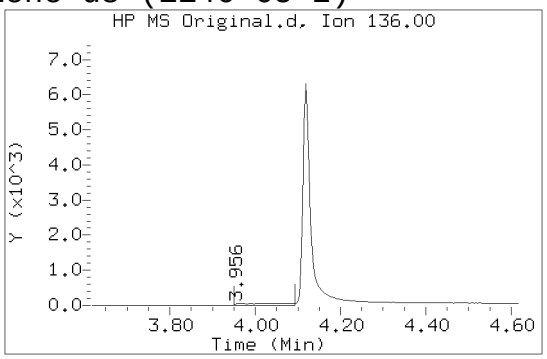


Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\06.D
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

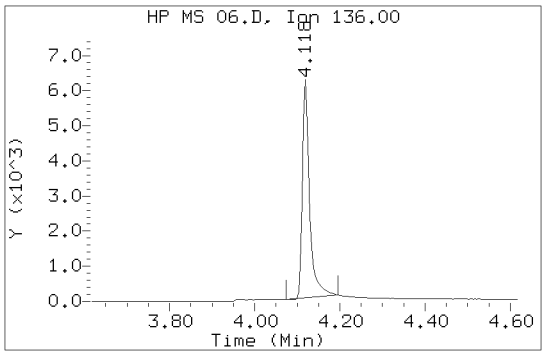
Naphthalene-d8 (1146-65-2)

Reason Code:

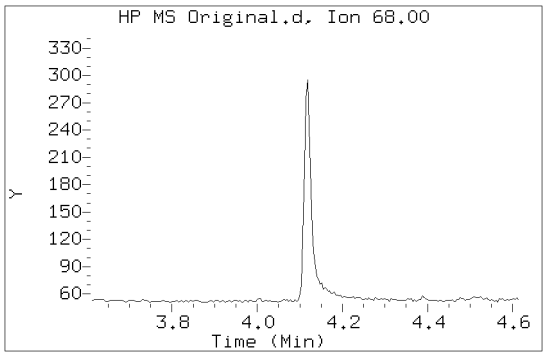
BEFORE
MASS
136
AREA
392
HEIGHT
47
17-May-2024
13:36
ALSHS
Server



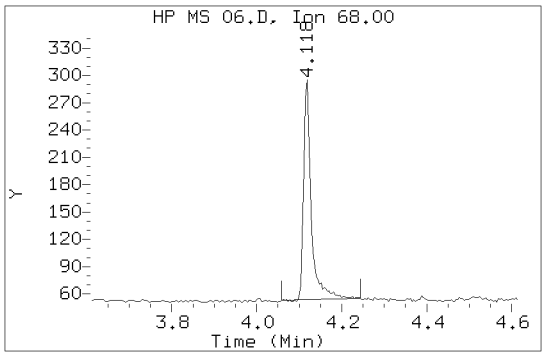
AFTER
MASS
136
AREA
7222
HEIGHT
6219
19-Jun-2024
14:13



BEFORE
MASS
68
AREA
0
HEIGHT
0
17-May-2024
13:36
ALSHS
Server



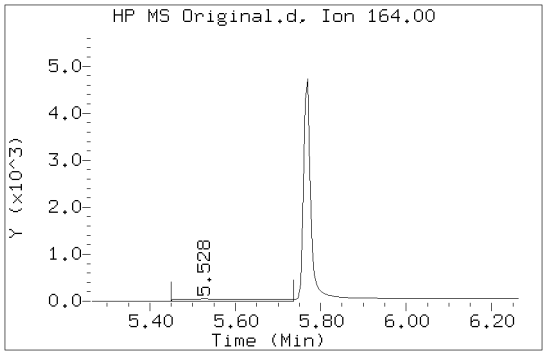
AFTER
MASS
68
AREA
301
HEIGHT
241
19-Jun-2024
14:13



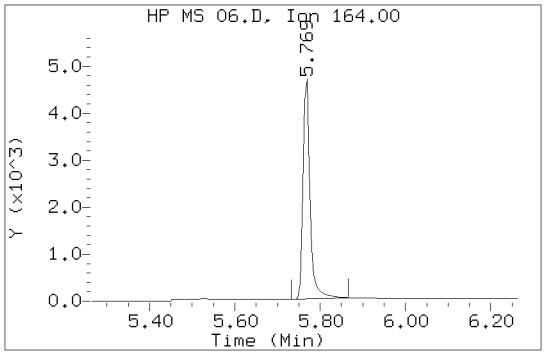
Acenaphthene-d10 (15067-26-2)

Reason Code:

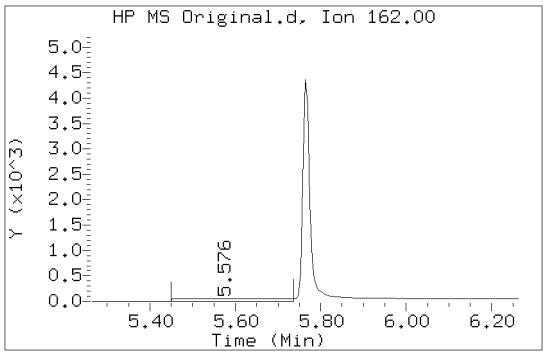
BEFORE
MASS
164
AREA
800
HEIGHT
49
17-May-2024
13:36
ALSHS
Server



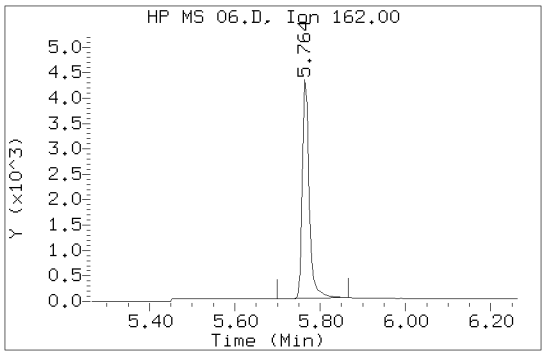
AFTER
MASS
164
AREA
5272
HEIGHT
4679
19-Jun-2024
14:13



BEFORE
MASS
162
AREA
796
HEIGHT
50
17-May-2024
13:36
ALSHS
Server



AFTER
MASS
162
AREA
4765
HEIGHT
4305
19-Jun-2024
14:13



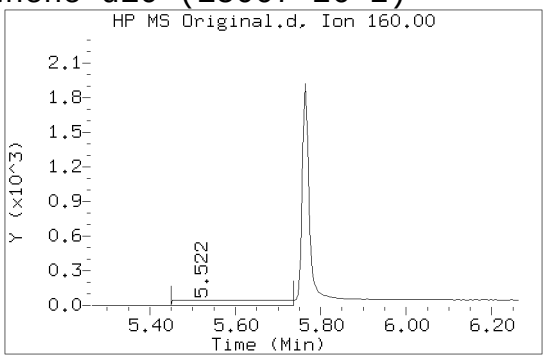
Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\06.D
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

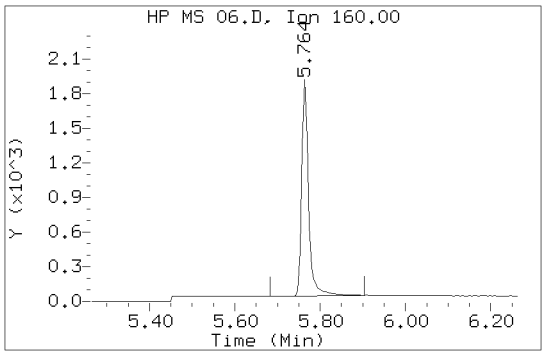
BEFORE

MASS
160
AREA
777
HEIGHT
46
17-May-2024
13:36
ALSHS
Server



AFTER

MASS
160
AREA
2057
HEIGHT
1875
19-Jun-2024
14:13

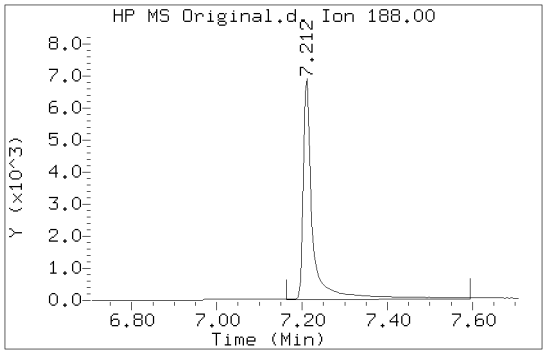


Phenanthrene-d10 (1517-22-2)

Reason Code:

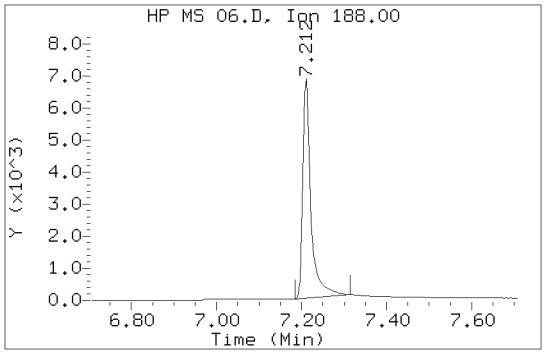
BEFORE

MASS
188
AREA
11031
HEIGHT
6884
17-May-2024
13:36
ALSHS
Server



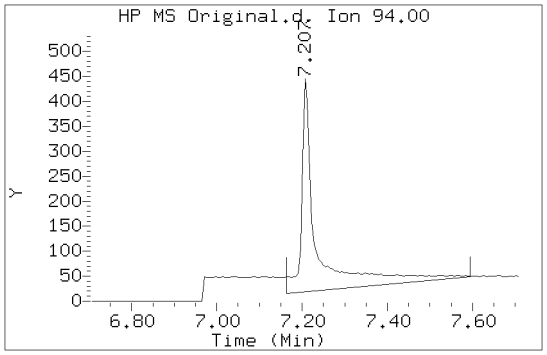
AFTER

MASS
188
AREA
9252
HEIGHT
6837
19-Jun-2024
14:13



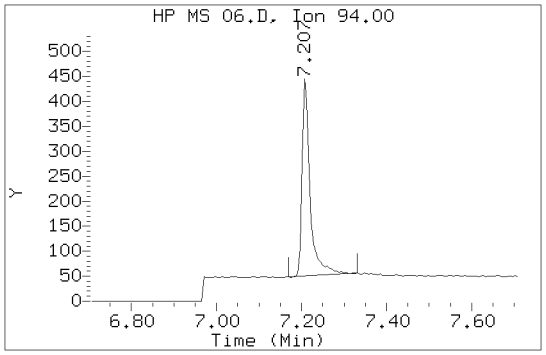
BEFORE

MASS
94
AREA
1042
HEIGHT
426
17-May-2024
13:36
ALSHS
Server



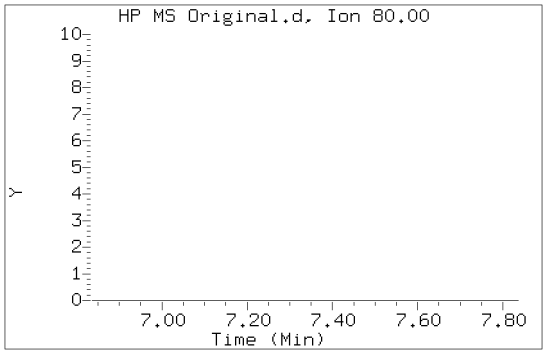
AFTER

MASS
94
AREA
521
HEIGHT
394
19-Jun-2024
14:13



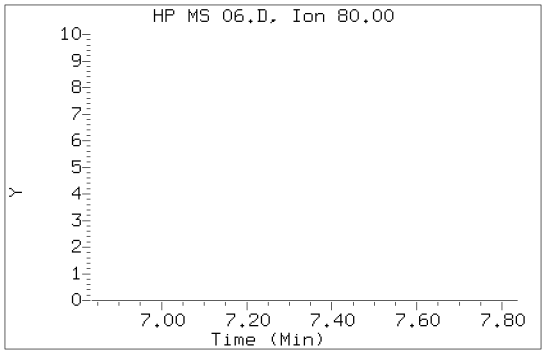
BEFORE

MASS
80
AREA
0
HEIGHT
0
17-May-2024
13:36
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
19-Jun-2024
14:13



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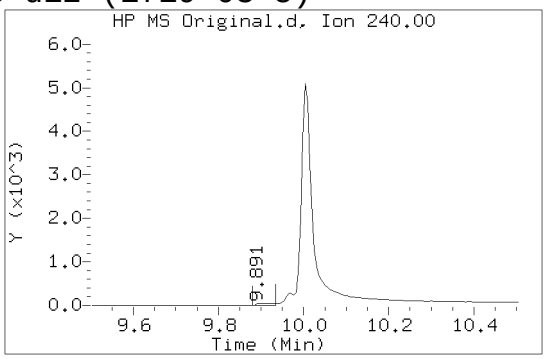
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

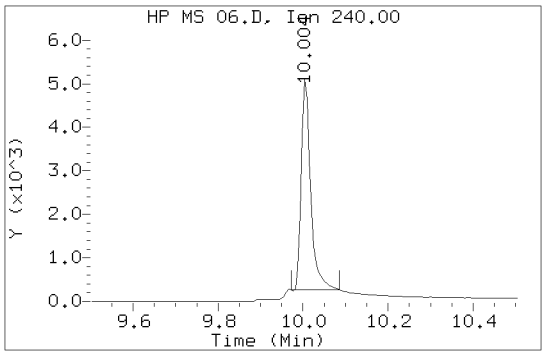
Chrysene-d12 (1719-03-5)

Reason Code:

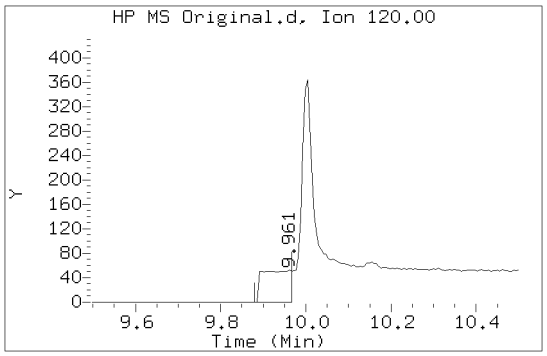
BEFORE
MASS
240
AREA
139
HEIGHT
49
17-May-2024
13:36
ALSHS
Server



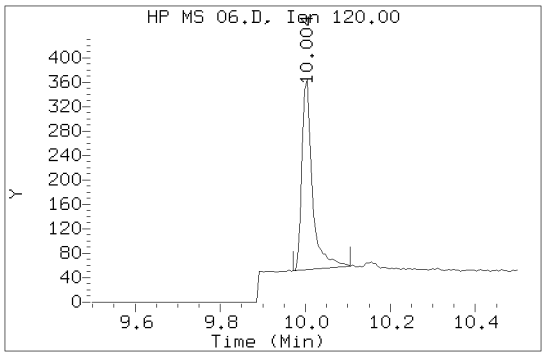
AFTER
MASS
240
AREA
7402
HEIGHT
4825
19-Jun-2024
14:13



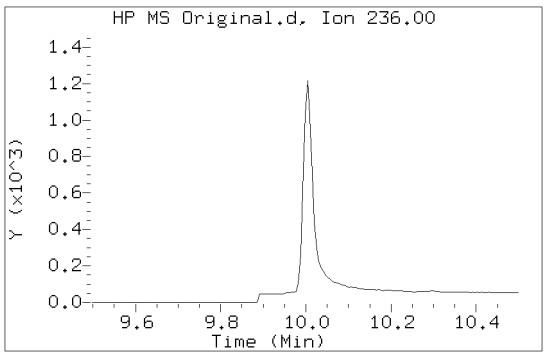
BEFORE
MASS
120
AREA
244
HEIGHT
53
17-May-2024
13:36
ALSHS
Server



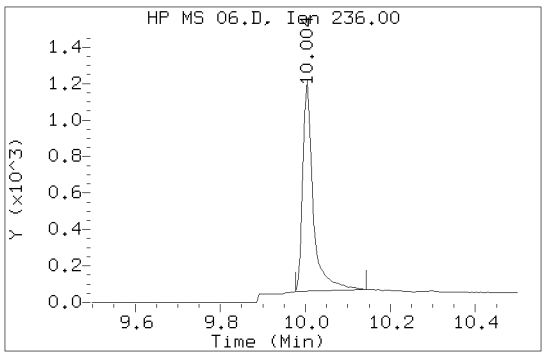
AFTER
MASS
120
AREA
526
HEIGHT
310
19-Jun-2024
14:13



BEFORE
MASS
236
AREA
0
HEIGHT
0
17-May-2024
13:36
ALSHS
Server



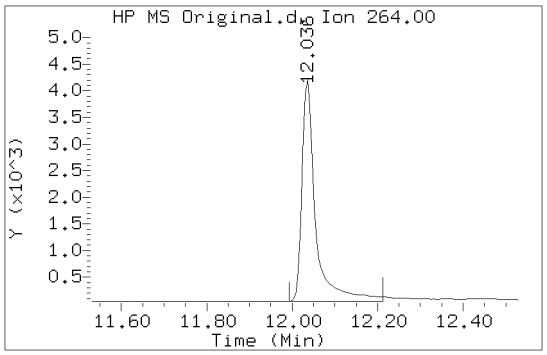
AFTER
MASS
236
AREA
1954
HEIGHT
1155
19-Jun-2024
14:13



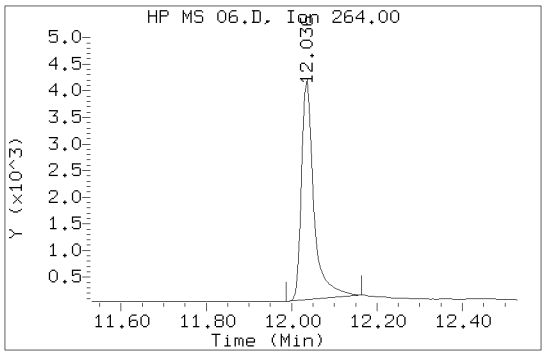
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
9152
HEIGHT
4156
17-May-2024
13:36
ALSHS
Server



AFTER
MASS
264
AREA
8273
HEIGHT
4126
19-Jun-2024
14:13



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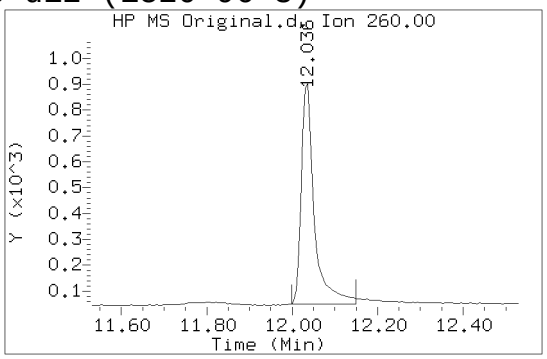
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

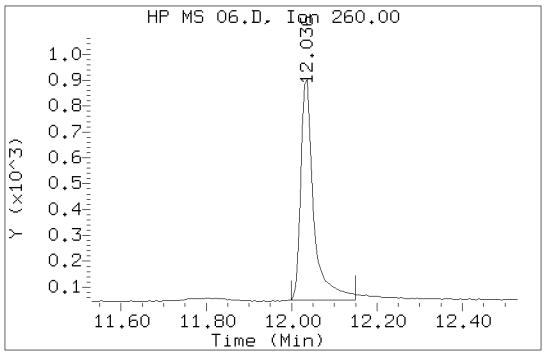
Perylene-d12 (1520-96-3)

Reason Code:

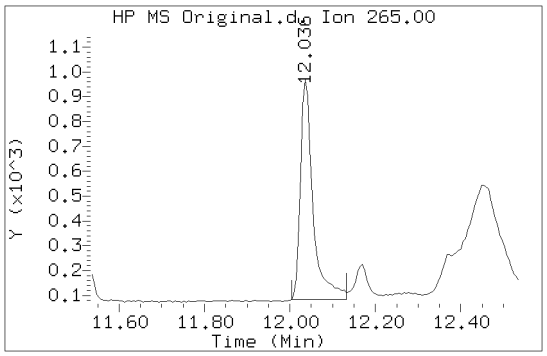
BEFORE
MASS
260
AREA
1794
HEIGHT
852
17-May-2024
13:36
ALSHS
Server



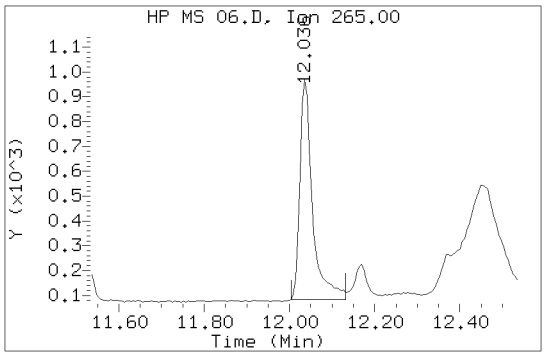
AFTER
MASS
260
AREA
1794
HEIGHT
852
19-Jun-2024
14:13



BEFORE
MASS
265
AREA
1810
HEIGHT
884
17-May-2024
13:36
ALSHS
Server



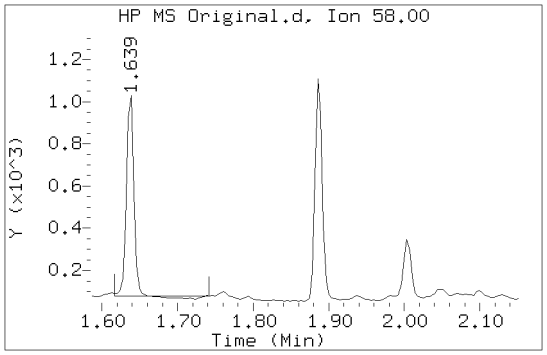
AFTER
MASS
265
AREA
1810
HEIGHT
884
19-Jun-2024
14:13



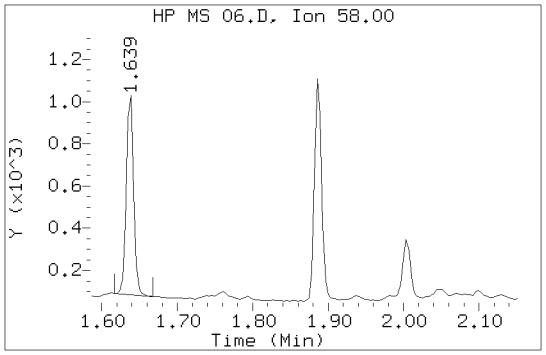
1,4-Dioxane ()

Reason Code:

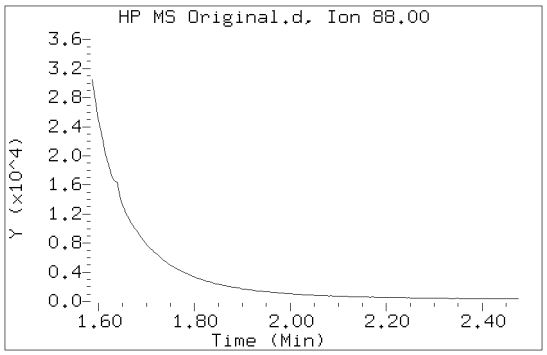
BEFORE
MASS
58
AREA
625
HEIGHT
950
17-May-2024
13:36
ALSHS
Server



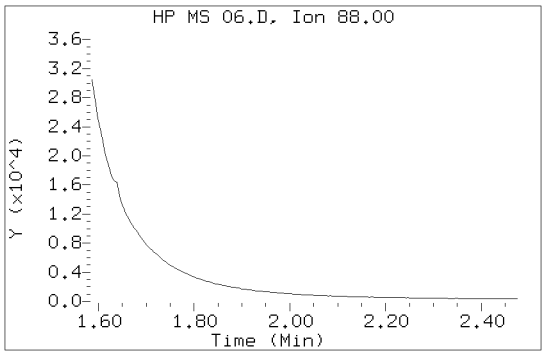
AFTER
MASS
58
AREA
637
HEIGHT
942
19-Jun-2024
14:13



BEFORE
MASS
88
AREA
0
HEIGHT
0
17-May-2024
13:36
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
19-Jun-2024
14:13



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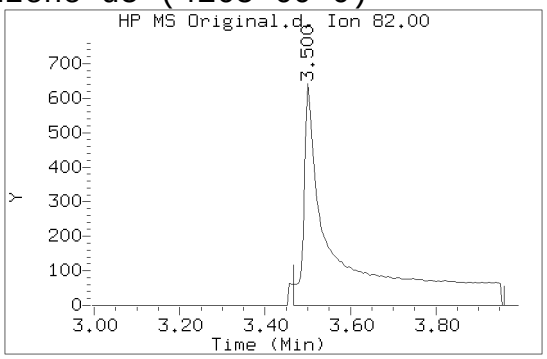
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

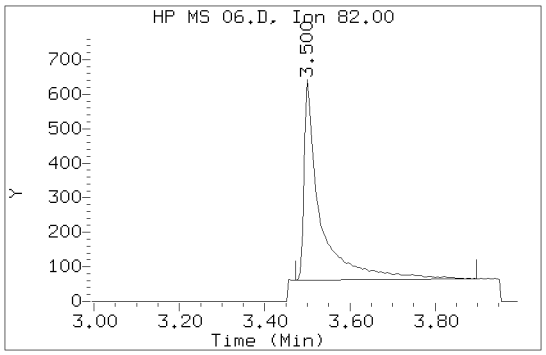
Nitrobenzene-d5 (4165-60-0)

Reason Code:

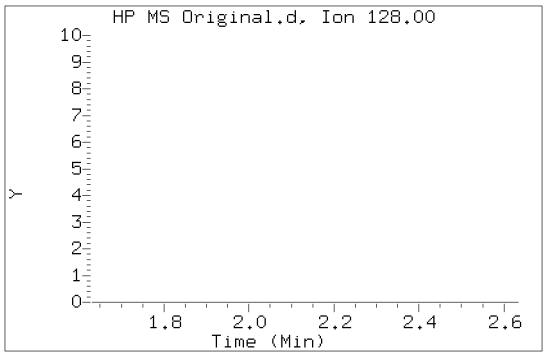
BEFORE
MASS
82
AREA
3380
HEIGHT
642
17-May-2024
13:36
ALSHS
Server



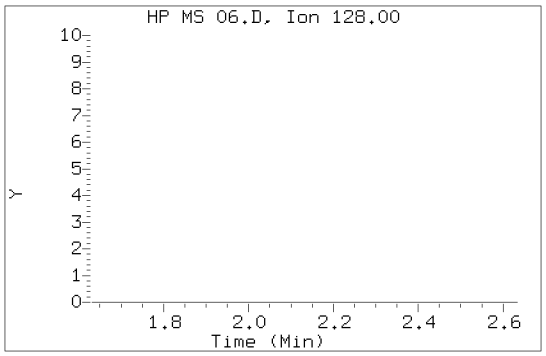
AFTER
MASS
82
AREA
1526
HEIGHT
579
19-Jun-2024
14:13



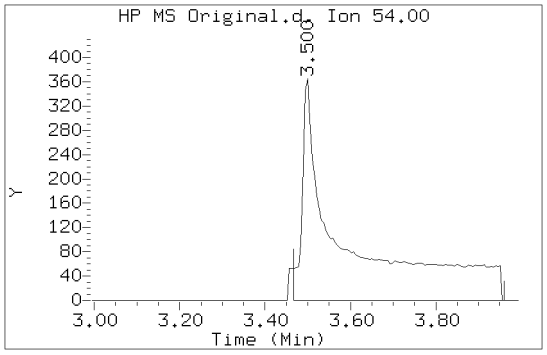
BEFORE
MASS
128
AREA
0
HEIGHT
0
17-May-2024
13:36
ALSHS
Server



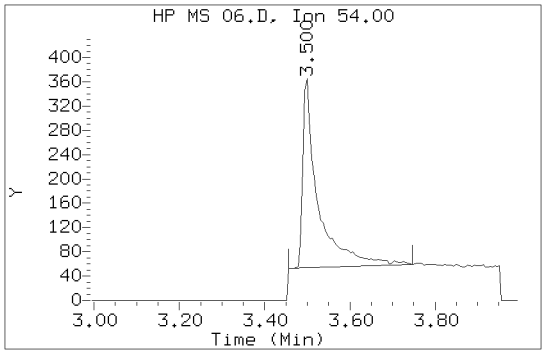
AFTER
MASS
128
AREA
0
HEIGHT
0
19-Jun-2024
14:13



BEFORE
MASS
54
AREA
2434
HEIGHT
365
17-May-2024
13:36
ALSHS
Server



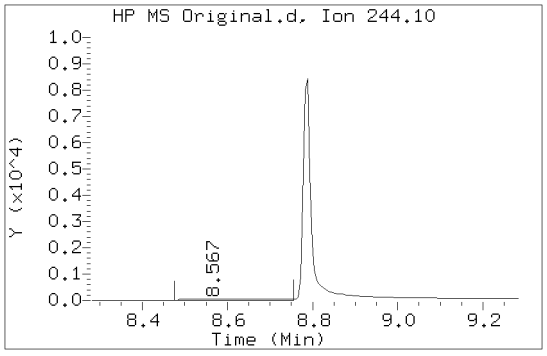
AFTER
MASS
54
AREA
779
HEIGHT
311
19-Jun-2024
14:13



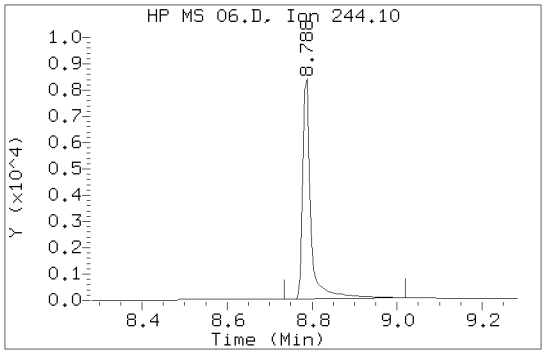
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
737
HEIGHT
46
17-May-2024
13:36
ALSHS
Server



AFTER
MASS
244.1
AREA
11123
HEIGHT
8378
19-Jun-2024
14:13

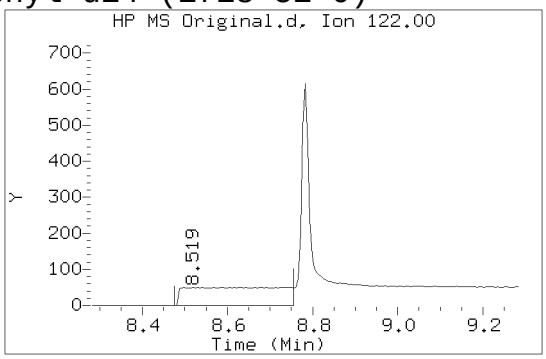


Data File : \\NAHSTWS005\Target\chem\SV6.i\240517.b\06.D
Inj Date : 17-MAY-2024 13:21
InstruID : SV6.i
LabSampID : 14DX-0.08

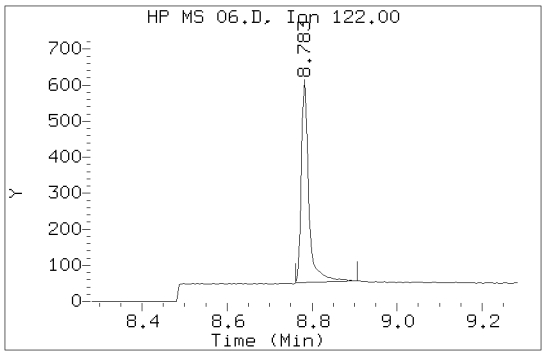
4-Terphenyl-d14 (1718-51-0)

Reason Code:

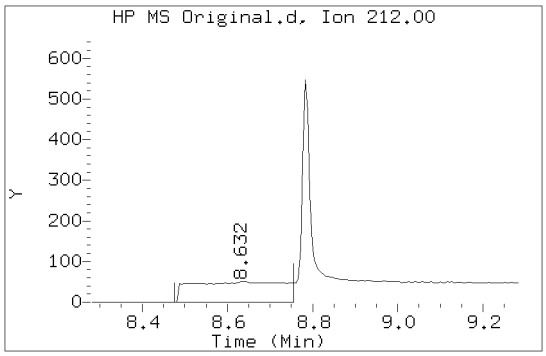
BEFORE
MASS
122
AREA
799
HEIGHT
50
17-May-2024
13:36
ALSHS
Server



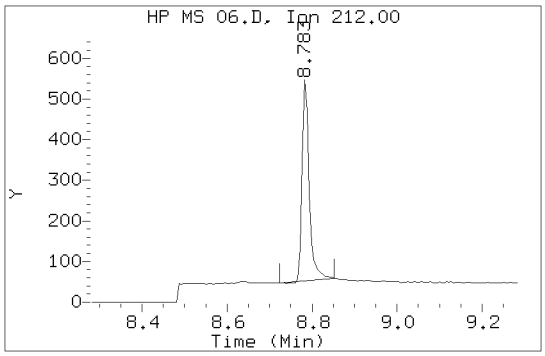
AFTER
MASS
122
AREA
676
HEIGHT
563
19-Jun-2024
14:13



BEFORE
MASS
212
AREA
773
HEIGHT
51
17-May-2024
13:36
ALSHS
Server



AFTER
MASS
212
AREA
561
HEIGHT
494
19-Jun-2024
14:13



HS24050531-MSVOA-SW8260

ALS WO# HS24050531

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24050531

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466602

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24041892-02MS	Aqueous	05/13/24 13:02	%REC	20
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051310.D	1102	1000	110		81-118
4-Bromofluorobenzene	U051310.D	1111	1000	111		85-114
Dibromofluoromethane	U051310.D	1078	1000	108		80-119
Toluene-d8	U051310.D	1083	1000	108		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24041892-02MSD	Aqueous	05/13/24 13:23	%REC	20
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051311.D	1115	1000	111		81-118
4-Bromofluorobenzene	U051311.D	1102	1000	110		85-114
Dibromofluoromethane	U051311.D	1073	1000	107		80-119
Toluene-d8	U051311.D	1105	1000	111		89-112

LH18/24-SP650_050824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050531-01	Water	05/13/24 19:23	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051326.D	56	50	113		81-118
4-Bromofluorobenzene	U051326.D	51	50	103		85-114
Dibromofluoromethane	U051326.D	53	50	107		80-119
Toluene-d8	U051326.D	54	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24050531

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466602

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050531-03	Water	05/13/24 17:56	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051322.D	57	50	114		81-118
4-Bromofluorobenzene	U051322.D	52	50	105		85-114
Dibromofluoromethane	U051322.D	54	50	107		80-119
Toluene-d8	U051322.D	55	50	110		89-112

VBLKW-240513

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240513	Aqueous	05/13/24 11:33	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051306.D	57.89	50	116		81-118
4-Bromofluorobenzene	U051306.D	52.55	50	105		85-114
Dibromofluoromethane	U051306.D	53.4	50	107		80-119
Toluene-d8	U051306.D	54.56	50	109		89-112

VLCSW-240513

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240513	Aqueous	05/13/24 10:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U051303.D	56.02	50	112		81-118
4-Bromofluorobenzene	U051303.D	55.44	50	111		85-114
Dibromofluoromethane	U051303.D	54.29	50	109		80-119
Toluene-d8	U051303.D	55.22	50	110		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: HS24050531

SAMPLENUM: HS24041892-02MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24041892-02)			HS24041892-02MS		HS24041892-02MSD	
Spike Matrix: Aqueous	Result Units: ug/L		Run Date: 05/13/24		Run Date: 05/13/24	
Instrument ID: VOA9			Run Time: 13:02		Run Time: 13:23	
			Data File: U051310.D		Data File: U051311.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	20	0	411.038	400	103		398.402	400	100		20	3.12	
1,1,1-Trichloroethane	74-131	20	0	460.397	400	115		436.958	400	109		20	5.22	
1,1,2,2-Tetrachloroethane	71-121	20	0	400.929	400	100		410.256	400	103		20	2.3	
1,1,2-Trichloroethane	80-119	20	0	382.498	400	96		385.024	400	96		20	0.658	
1,1-Dichloroethane	77-125	20	0	429.258	400	107		415.391	400	104		20	3.28	
1,1-Dichloroethene	71-131	20	0	432.833	400	108		406.844	400	102		20	6.19	
1,1-Dichloropropene	78-125	20	0	425.892	400	106		407.858	400	102		20	4.33	
1,2,3-Trichlorobenzene	69-129	20	0	402.278	400	101		418.656	400	105		20	3.99	
1,2,3-Trichloropropane	73-122	20	0	383.907	400	96		378.879	400	95		20	1.32	
1,2,4-Trichlorobenzene	69-130	20	0	407.787	400	102		432.529	400	108		20	5.89	
1,2,4-Trimethylbenzene	76-124	20	0	463.750	400	116		466.947	400	117		20	0.687	
1,2-Dibromo-3-chloropropane	62-128	20	0	369.013	400	92		387.012	400	97		20	4.76	
1,2-Dibromoethane	77-121	20	0	389.716	400	97		394.888	400	99		20	1.32	
1,2-Dichlorobenzene	80-119	20	0	414.401	400	104		410.026	400	103		20	1.06	
1,2-Dichloroethane	73-128	20	0	385.875	400	96		379.408	400	95		20	1.69	
1,2-Dichloropropane	78-122	20	0	421.046	400	105		410.000	400	102		20	2.66	
1,3,5-Trimethylbenzene	75-124	20	0	451.940	400	113		454.086	400	114		20	0.474	
1,3-Dichlorobenzene	80-119	20	0	407.636	400	102		410.130	400	103		20	0.61	
1,3-Dichloropropane	80-119	20	0	391.321	400	98		394.995	400	99		20	0.934	
1,4-Dichlorobenzene	79-118	20	0	419.849	400	105		416.162	400	104		20	0.882	
2,2-Dichloropropane	60-139	20	0	490.225	400	123		464.879	400	116		20	5.31	
2-Butanone	56-143	20	0	723.548	800	90		726.294	800	91		20	0.379	
2-Chlorotoluene	79-122	20	0	424.959	400	106		421.410	400	105		20	0.839	
2-Hexanone	57-139	20	0	744.164	800	93		747.578	800	93		20	0.458	
4-Chlorotoluene	78-122	20	0	434.997	400	109		439.219	400	110		20	0.966	
4-Isopropyltoluene	77-127	20	0	466.427	400	117		484.425	400	121		20	3.79	
4-Methyl-2-pentanone	67-130	20	0	766.303	800	96		776.962	800	97		20	1.38	
Acetone	39-160	20	0	665.945	800	83		682.676	800	85		20	2.48	
Benzene	79-120	20	0	400.476	400	100		391.358	400	98		20	2.3	
Bromobenzene	80-120	20	0	390.913	400	98		393.913	400	98		20	0.765	
Bromochloromethane	78-123	20	0	405.730	400	101		384.670	400	96		20	5.33	
Bromodichloromethane	79-125	20	0	411.088	400	103		406.776	400	102		20	1.05	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: HS24050531

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24041892-02MS

BatchQC (HS24041892-02)				HS24041892-02MS				HS24041892-02MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 05/13/24				Run Date: 05/13/24						
Instrument ID: VOA9				Run Time: 13:02				Run Time: 13:23						
				Data File: U051310.D				Data File: U051311.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	20	0	372.480	400	93		365.212	400	91		20	1.97	
Bromomethane	53-141	20	0	427.723	400	107		394.288	400	99		20	8.13	
Carbon disulfide	64-133	20	0	816.109	800	102		794.281	800	99		20	2.71	
Carbon tetrachloride	72-136	20	0	430.019	400	108		421.053	400	105		20	2.11	
Chlorobenzene	82-118	20	0	395.614	400	99		393.098	400	98		20	0.638	
Chloroethane	60-138	20	0	419.040	400	105		406.333	400	102		20	3.08	
Chloroform	79-124	20	0	417.001	400	104		402.383	400	101		20	3.57	
Chloromethane	50-139	20	0	398.034	400	100		385.264	400	96		20	3.26	
cis-1,2-Dichloroethene	78-123	20	0	424.211	400	106		402.489	400	101		20	5.26	
cis-1,3-Dichloropropene	75-124	20	0	408.400	400	102		414.772	400	104		20	1.55	
Dibromochloromethane	74-126	20	0	381.134	400	95		378.917	400	95		20	0.584	
Dibromomethane	79-123	20	0	380.108	400	95		375.014	400	94		20	1.35	
Dichlorodifluoromethane	32-152	20	0	401.397	400	100		386.736	400	97		20	3.72	
Ethylbenzene	79-121	20	0	431.854	400	108		425.016	400	106		20	1.6	
Hexachlorobutadiene	66-134	20	0	428.129	400	107		493.910	400	123		20	14.3	
Isopropylbenzene	72-131	20	0	467.234	400	117		452.226	400	113		20	3.26	
m,p-Xylene	80-121	20	0	913.536	800	114		888.715	800	111		20	2.75	
Methylene chloride	74-124	20	0	403.211	400	101		385.706	400	96		20	4.44	
Naphthalene	61-128	20	0	373.972	400	94		392.997	400	98		20	4.96	
n-Butylbenzene	75-128	20	0	449.438	400	112		463.046	400	116		20	2.98	
n-Propylbenzene	76-126	20	0	468.523	400	117		471.947	400	118		20	0.728	
o-Xylene	78-122	20	0	439.256	400	110		434.322	400	109		20	1.13	
sec-Butylbenzene	77-126	20	0	458.962	400	115		477.119	400	119		20	3.88	
Styrene	78-123	20	0	447.082	400	112		444.184	400	111		20	0.65	
tert-Butylbenzene	78-124	20	0	446.981	400	112		459.352	400	115		20	2.73	
Tetrachloroethene	74-129	20	0	459.622	400	115		443.030	400	111		20	3.68	
Toluene	80-121	20	0	435.005	400	109		424.420	400	106		20	2.46	
trans-1,2-Dichloroethene	75-124	20	0	434.042	400	109		414.583	400	104		20	4.59	
trans-1,3-Dichloropropene	73-127	20	0	413.076	400	103		404.622	400	101		20	2.07	
Trichloroethene	79-123	20	0	431.414	400	108		417.096	400	104		20	3.37	
Trichlorofluoromethane	65-141	20	0	442.129	400	111		412.058	400	103		20	7.04	
Vinyl chloride	58-137	20	0	419.912	400	105		397.140	400	99		20	5.57	

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

SAMPLENUM VLCSW-240513

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_466602			VLCSW-240513				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/13/24 Run Time 10:28				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	20.53	103			
1,1,1-Trichloroethane	74-131	20	22.42	112			
1,1,2,2-Tetrachloroethane	71-121	20	20.67	103			
1,1,2-Trichloroethane	80-119	20	20.46	102			
1,1-Dichloroethane	77-125	20	21.06	105			
1,1-Dichloroethene	71-131	20	20.74	104			
1,1-Dichloropropene	78-125	20	20.17	101			
1,2,3-Trichlorobenzene	69-129	20	21.1	106			
1,2,3-Trichloropropane	73-122	20	20.09	100			
1,2,4-Trichlorobenzene	69-130	20	21.95	110			
1,2,4-Trimethylbenzene	76-124	20	23.31	117			
1,2-Dibromo-3-chloropropane	62-128	20	19.1	95.5			
1,2-Dibromoethane	77-121	20	20.37	102			
1,2-Dichlorobenzene	80-119	20	20.88	104			
1,2-Dichloroethane	73-128	20	19.96	99.8			
1,2-Dichloropropane	78-122	20	21.59	108			
1,3,5-Trimethylbenzene	75-124	20	22.38	112			
1,3-Dichlorobenzene	80-119	20	20.51	103			
1,3-Dichloropropane	80-119	20	20.93	105			
1,4-Dichlorobenzene	79-118	20	21.15	106			
2,2-Dichloropropane	60-139	20	24.52	123			
2-Butanone	56-143	40	38.12	95.3			
2-Chlorotoluene	79-122	20	21.08	105			
2-Hexanone	57-139	40	38.3	95.7			
4-Chlorotoluene	78-122	20	21.95	110			
4-Isopropyltoluene	77-127	20	22.75	114			
4-Methyl-2-pentanone	67-130	40	40	100.0			
Acetone	39-160	40	33.36	83.4			
Benzene	79-120	20	19.81	99.1			
Bromobenzene	80-120	20	20.08	100			
Bromochloromethane	78-123	20	20.24	101			
Bromodichloromethane	79-125	20	21.77	109			
Bromoform	66-130	20	19.11	95.5			
Bromomethane	53-141	20	20.42	102			
Carbon disulfide	64-133	40	40.68	102			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

SAMPLENUM VLCSW-240513

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_466602			VLCSW-240513				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/13/24 Run Time 10:28				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	20.96	105			
Chlorobenzene	82-118	20	20.27	101			
Chloroethane	60-138	20	20.56	103			
Chloroform	79-124	20	20.84	104			
Chloromethane	50-139	20	19.91	99.6			
cis-1,2-Dichloroethene	78-123	20	21.12	106			
cis-1,3-Dichloropropene	75-124	20	21.75	109			
Dibromochloromethane	74-126	20	19.92	99.6			
Dibromomethane	79-123	20	19.17	95.8			
Dichlorodifluoromethane	32-152	20	19.39	97.0			
Ethylbenzene	79-121	20	21.29	106			
Hexachlorobutadiene	66-134	20	21.08	105			
Isopropylbenzene	72-131	20	22.34	112			
m,p-Xylene	80-121	40	44.17	110			
Methylene chloride	74-124	20	18.63	93.1			
Naphthalene	61-128	20	20.21	101			
n-Butylbenzene	75-128	20	21.58	108			
n-Propylbenzene	76-126	20	22.92	115			
o-Xylene	78-122	20	21.52	108			
sec-Butylbenzene	77-126	20	22.18	111			
Styrene	78-123	20	22.54	113			
tert-Butylbenzene	78-124	20	22	110			
Tetrachloroethene	74-129	20	21.3	106			
Toluene	80-121	20	21.41	107			
trans-1,2-Dichloroethene	75-124	20	21.12	106			
trans-1,3-Dichloropropene	73-127	20	21.81	109			
Trichloroethene	79-123	20	21.05	105			
Trichlorofluoromethane	65-141	20	20.15	101			
Vinyl chloride	58-137	20	20.12	101			

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Form 4

Method Blank Summary

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24050531	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240513	Aqueous	05/13/24 11:33	R466602	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240513	VLCSW-240513	LCS	05/13/24 10:28	R466602	VOA9	U051303.D
BatchQC	HS24041892-02MS	MS	05/13/24 13:02	R466602	VOA9	U051310.D
BatchQC	HS24041892-02MSD	MSD	05/13/24 13:23	R466602	VOA9	U051311.D
Trip Blank	HS24050531-03	SAMP	05/13/24 17:56	R466602	VOA9	U051322.D
LH18/24-SP650_050824	HS24050531-01	SAMP	05/13/24 19:23	R466602	VOA9	U051326.D

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Form 5

Instrument Performance Check

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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: U050701 BFB Injection Date: 05/07/24

Instrument ID: VOA9 BFB Injection Time: 1143

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	18.9
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.3
175	5.0 - 9.0% of mass 174	7.1 (8.0)1
176	95.0 - 101.0% of mass 174	84.7 (95.9)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)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	U050702	05/07/24	1205
02	VSTD00.5	VSTD00.5	U050703	05/07/24	1226
03	VSTD001	VSTD001	U050704	05/07/24	1248
04	VSTD002	VSTD002	U050705	05/07/24	1309
05	VSTD005	VSTD005	U050706	05/07/24	1331
06	VSTD020	VSTD020	U050707	05/07/24	1353
07	VSTD050	VSTD050	U050708	05/07/24	1414
08	VSTD100	VSTD100	U050709	05/07/24	1436
09	VSTD150	VSTD150	U050710	05/07/24	1458
10	ICV	VSTD200	U050711	05/07/24	1520
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: U050713 BFB Injection Date: 05/07/24

Instrument ID: VOA9 BFB Injection Time: 1603

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	19.6
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	7.0 (8.4)1
176	95.0 - 101.0% of mass 174	80.6 (96.5)1
177	5.0 - 9.0% of mass 176	5.7 (7.0)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	U050714	05/07/24	1625
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24050531	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466602

Tune File: U051301.D — 05/13/24 5/13/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	20.4 (20.4)
75	30.0 - 60.0% of mass 95	49.7 (49.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	82.7 (82.7) 1
175	5.0 - 9.0% of mass 174	7.1 (8.59) 1
176	> 95% but < 101% of mass 174	78.9 (95.4) 1
177	5.0 - 9.0% of mass 176	5.2 (6.6) 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	5/13/2024	U051302	VSTD050
2	VLCSW-	LCS	5/13/2024	U051303	VLCSW-240513
3	VBLKW-	MBLK	5/13/2024	U051306	VBLKW-240513
4	HS24041892-	MS	5/13/2024	U051310	ZZZZZZMS
5	HS24041892-	MSD	5/13/2024	U051311	ZZZZZZMSD
6	HS24050531-03	SAMP	5/13/2024	U051322	Trip Blank
7	HS24050531-01	SAMP	5/13/2024	U051326	LH18/24-SP650_050824
8	VSTD050	CCV_EN	5/13/2024	U051330	VSTD050

Report Date : 28-May-2024 12:51 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.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	+++++ / 65682	578 / 149041	1557 / 226326	1935 / 321982	6995	28317	QUAD	0.00255	3.47532	-0.18676	0.99968
3 Chloromethane	+++++ / 93298	1675 / 196655	2801 / 294398	4074 / 428218	10242	40519	QUAD	-0.02082	2.66416	-0.11995	0.99959
4 Propionitrile	+++++ / 157637	2175 / 301666	4378 / 454283	6563 / 628272	16521	64070	LINR	-0.31330	0.05995		0.99953

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAY-2024 12:05
End Cal Date : 07-MAY-2024 15:20
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\8260C.m
Last Edit : 28-May-2024 11:07 rucha.patel

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	+++++	1033	2206	3212	9419	38946					
	91141	200761	302899	431237			QUAD	-0.00282	2.56393	-0.08119	0.99977
6 Bromomethane	+++++	1339	2357	3123	7113	22087					
	45202	98641	151120	218451			LINR	-0.01464	0.20407		0.99863
7 Chloroethane	+++++	624	1775	2573	7332	27424					
	63297	134406	199936	284336			QUAD	-0.01323	3.78435	-0.07415	0.99971
8 Trichlorofluoromethane	+++++	999	2473	3305	11234	46111					
	107161	235146	350099	499853			QUAD	-0.00290	2.18312	-0.04372	0.99966
9 Acrolein	+++++	365	367	628	2063	3583					
	9057	17146	26689	36447			LINR	-0.12798	0.01721		0.99909
10 Acetone	+++++	1575	2429	3376	7115	26744					
	65536	125678	180361	254435			LINR	-0.09758	0.12061		0.99876
11 1,1-Dichloroethene	+++++	760	1548	2128	6623	25623					
	60885	132959	199614	288932			QUAD	-0.00792	3.94059	-0.27338	0.99969

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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
12 Isobutyl Alcohol	+++++ / 0.05394	0.04284 / 0.05393	0.05890 / 0.05342	0.04955 / 0.05722	0.05077	0.05419	AVRG		0.05275		8.87757
13 Acetonitrile	+++++ / 0.05074	0.05342 / 0.04689	0.04625 / 0.04571	0.05183 / 0.04471	0.05297	0.05365	AVRG		0.04957		7.35012
14 Allyl Chloride	+++++ / 1.21969	1.51523 / 1.12417	1.37366 / 1.10674	1.33373 / 1.08235	1.34211	1.28005	AVRG		1.26419		11.38093
15 Iodomethane	+++++ / 151810	1163 / 352010	1959 / +++++	3027 / +++++	9847	56119	QUAD	0.02494	3.36750	-0.41512	0.99987
16 Acrylonitrile	+++++ / 84618	1473 / 157855	2252 / 237997	3775 / 325459	8951	35349	LINR	-0.08817	0.15562		0.99907
17 Methylene Chloride	+++++ / 80341	4075 / 164577	5625 / 240290	6966 / 341887	11146	36574	LINR	-0.05752	0.32011		0.99955
18 Methyl tert-butyl ether	+++++ / 1.11053	1.36768 / 1.01849	1.29112 / 1.01142	1.29811 / 1.01630	1.22553	1.15614	AVRG		1.16615		11.68580

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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	+++++	0.75343	0.87586	0.65215	0.73399	0.79333					
	0.75821	0.82952	0.82026	0.85702			AVRG		0.78598		8.84811
20 trans-1,2-Dichloroethene	+++++	855	1968	2703	6703	29100					
	68664	146972	220571	315136			QUAD	-0.00816	3.49057	-0.12879	0.99978
21 Vinyl Acetate	+++++	0.23324	0.21608	0.19315	0.22927	0.21969					
	0.21134	0.21389	0.20682	0.21040			AVRG		0.21488		5.55441
22 1,1-Dichloroethane	+++++	1674	3729	5335	13839	55860					
	130203	276401	407315	586207			LINR	-0.00556	0.55389		0.99946
23 Chloroprene	+++++	322	924	993	3544	11443					
	27342	57857	87928	127729			QUAD	-0.01946	9.08966	-1.70257	0.99974
24 2-Butanone	+++++	0.16051	0.17737	0.14282	0.14747	0.15793					
	0.15582	0.16214	0.15637	0.16111			AVRG		0.15795		6.15992
25 Methacrylonitrile	+++++	0.29134	0.28953	0.26028	0.25843	0.27278					
	0.28402	0.26464	0.25710	+++++			AVRG		0.27226		5.23840

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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	+++++	1026	1877	2491	7317	32424					
	81912	187920	285676	417606			QUAD	0.00734	2.84127	-0.21204	0.99963
27 cis-1,2-Dichloroethene	+++++	942	2013	3011	7881	32759					
	77684	170041	255129	360131			QUAD	-0.00236	2.98950	-0.05882	0.99979
28 Chloroform	+++++	0.59188	0.69688	0.56508	0.57085	0.56860					
	0.53190	0.55813	0.54028	0.55084			AVRG		0.57494		8.52687
29 Bromochloromethane	+++++	502	1072	1593	3845	16792					
	39351	81205	120727	169265			LINR	-0.01518	0.16125		0.99979
31 1,1,1-Trichloroethane	+++++	0.37954	0.43301	0.32408	0.38648	0.42186					
	0.40593	0.45035	0.43970	0.45957			AVRG		0.41117		10.35614
32 1,1-Dichloropropene	+++++	0.36735	0.29553	0.24898	0.27457	0.28260					
	0.26143	0.28781	0.28067	0.29171			AVRG		0.28785		11.55959
33 1,2-Dichloroethane	+++++	0.40176	0.38017	0.31687	0.31004	0.32749					
	0.30218	0.30617	0.29169	0.29513			AVRG		0.32572		11.94190

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34 Carbon Tetrachloride	+++++	1152	1932	2026	7430	31953						
	78443	180664	275639	404504			QUAD	0.00613	4.34101	-0.52984	0.99962	
37 Benzene	+++++	0.97530	1.02789	0.83848	0.86315	0.89211						
	0.83588	0.89124	0.86132	0.88409			AVRG		0.89661		7.17019	
38 Trichloroethene	+++++	743	1953	2748	7532	30896						
	72534	160120	241342	346154			QUAD	-0.00346	4.74397	-0.34519	0.99974	
39 Bromodichloromethane	+++++	0.25404	0.26181	0.22792	0.21321	0.24727						
	0.25129	0.27598	0.27194	0.28684			AVRG		0.25448		9.15173	
40 Methyl Methacrylate	+++++	+++++	0.14840	0.14507	0.18454	0.18367						
	0.18995	0.18510	0.18355	+++++			AVRG		0.17433		10.89562	<-
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	11.00000	91.00000	741						
	1272	2754	4539	6074			QUAD	0.01729	502	-248	0.99682	<-
42 1,2-Dichloropropane	+++++	942	2166	3218	8250	32375						
	79295	171157	254059	362446			LINR	0.00300	0.23526		0.99966	

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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	
43 2-Nitropropane	+++++	+++++	0.10072	0.11825	0.07785	0.08763						
	0.09493	0.10141	0.10455	+++++			AVRG		0.09790		13.15008	<-
44 Dibromomethane	+++++	0.18185	0.15881	0.13472	0.14257	0.14581						
	0.13853	0.14234	0.13734	0.14208			AVRG		0.14712		10.01576	
45 4-Methyl-2-Pentanone	+++++	0.30041	0.28562	0.23001	0.23834	0.28338						
	0.28648	0.30227	0.30330	0.31447			AVRG		0.28270		10.38696	
46 cis-1,3-Dichloropropene	+++++	858	1704	2524	7260	38616						
	104989	241726	373463	550020			QUAD	0.02067	3.23345	-0.32352	0.99967	<-
49 Ethyl Methacrylate	+++++	0.37882	0.38949	0.33430	0.39407	0.38426						
	0.35623	0.34395	0.35014	0.36240			AVRG		0.36596		5.86735	
50 Toluene	+++++	0.93513	1.02515	0.89935	0.97561	1.04480						
	0.96440	1.01174	0.99934	1.03102			AVRG		0.98739		4.87152	
51 trans-1,3-Dichloropropene	+++++	542	1103	2073	5385	30455						
	84736	199280	309383	457859			QUAD	0.02655	3.94623	-0.52455	0.99956	

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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	+++++ / 125048	823 / 273104	2287 / 406845	3600 / 591469	9915	44949	LINR	0.07084	0.21272		0.99892	
53 1,1,2-Trichloroethane	+++++ / 0.18883	0.24359 / 0.19285	0.24903 / 0.18984	0.18672 / 0.19636	0.19251	0.20512	AVRG		0.20498		11.73869	
54 1,3-Dichloropropane	+++++ / 0.40954	0.47871 / 0.42088	0.49153 / 0.41364	0.39727 / 0.42361	0.41061	0.43778	AVRG		0.43151		7.53405	
55 Dibromochloromethane	+++++ / 71514	591 / 161616	1058 / 244807	1814 / 357218	5064	26478	LINR	0.04912	0.25687		0.99831	
56 Tetrachloroethene	+++++ / 57805	524 / 127780	1241 / 190045	1887 / 274355	5739	24971	QUAD	-0.00421	5.53522	-0.63269	0.99969	<-
57 1,2-Dibromoethane	+++++ / 0.22514	0.24108 / 0.23469	0.25350 / 0.23194	0.19647 / 0.23894	0.20923	0.23770	AVRG		0.22985		7.56447	
58 1-Chlorohexane	+++++ / 68237	3861 / 153320	4501 / 233546	4890 / 335230	8914	28952	QUAD	-0.03356	5.13879	-0.61644	0.99966	

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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	
59 Chlorobenzene	+++++	0.79010	0.82458	0.63012	0.66562	0.68065						
	0.61852	0.65436	0.64558	0.66715			AVRG		0.68630		10.45050	
60 1,1,1,2-Tetrachloroethane	+++++	484	1282	2003	5265	26698						
	67841	150982	228180	332181			LINR	0.03897	0.23851		0.99857	
61 Ethylbenzene	+++++	0.31799	0.34708	0.28992	0.30721	0.32828						
	0.31689	0.33246	0.33260	0.34402			AVRG		0.32405		5.59280	
62 m,p-Xylenes	+++++	0.33290	0.40201	0.33083	0.37259	0.41806						
	0.39450	0.42220	0.41743	0.43556			AVRG		0.39179		9.82439	
63 o-Xylene	+++++	0.35440	0.39954	0.34334	0.35812	0.41258						
	0.39579	0.41716	0.41310	0.42782			AVRG		0.39132		7.96957	
64 Styrene	+++++	0.54463	0.62880	0.55398	0.60937	0.70555						
	0.69077	0.73565	0.72996	0.75313			AVRG		0.66131		12.00034	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	257	666	1007	2885	15221						
	44718	106736	168544	252813			QUAD	0.02986	6.88121	-2.03155	0.99957	<-
67 Isopropylbenzene	+++++	0.74396	0.89760	0.80947	0.88909	1.01361						
	0.96242	1.04103	1.03297	1.07869			AVRG		0.94098		12.10848	
68 1,1,2,2-Tetrachloroethane	+++++	1306	2612	3743	9413	44003						
	106801	225467	336129	480624			LINR	0.00813	0.64022		0.99965	
71 1,2,3-Trichloropropane	+++++	0.66853	0.59254	0.61877	0.63560	0.61173						
	0.59609	0.64794	0.66506	0.69506			AVRG		0.63681		5.52272	
72 trans-1,4-Dichloro-2-butene	+++++	306	435	859	2204	8154						
	22286	51903	84320	125868			QUAD	0.01111	14.16665	-9.05205	0.99969	
73 n-Propylbenzene	+++++	1.69877	2.06276	1.68935	1.90958	2.16119						
	2.05102	2.14590	2.17424	2.23495			AVRG		2.01419		10.12890	
74 Bromobenzene	+++++	0.54968	0.66807	0.50464	0.51869	0.54304						
	0.49818	0.52592	0.53187	0.54407			AVRG		0.54268		9.25392	

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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	+++++ / 1.46913	1.24598 / 1.58216	1.47513 / 1.60059	1.17929 / 1.64892	1.34539	1.55654	AVRG		1.45590		11.32795
76 2-Chlorotoluene	+++++ / 1.26545	1.47528 / 1.35473	1.50848 / 1.36053	1.26837 / 1.38118	1.26454	1.38514	AVRG		1.36263		6.50379
77 4-Chlorotoluene	+++++ / 1.48423	1.60382 / 1.56792	1.60528 / 1.57080	1.33085 / 1.61187	1.42598	1.60385	AVRG		1.53384		6.47120
78 tert-Butylbenzene	+++++ / 1.23965	0.99730 / 1.32207	1.22791 / 1.33254	0.97507 / 1.36953	1.21633	1.31903	AVRG		1.22216		11.76008
79 1,2,4-Trimethylbenzene	+++++ / 1.48035	1.16072 / 1.58506	1.35021 / 1.59928	1.12917 / 1.62658	1.33162	1.56497	AVRG		1.42533		13.37986
80 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++ / 1.62999	1.29313 / 1.77295	1.66119 / 1.79201	1.27226 / 1.84925	1.51536	1.70817	AVRG		1.61048		13.04344

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82 p-Isopropyltoluene	+++++	1.11227	1.28023	1.04128	1.28548	1.53172						
	1.48292	1.60846	1.62080	1.66097			AVRG		1.40268		16.40109	
83 1,3-Dichlorobenzene	+++++	1.00763	1.09253	0.88498	0.89727	0.94774						
	0.87814	0.93706	0.93549	0.96081			AVRG		0.94907		7.09769	
84 1,4-Dichlorobenzene	+++++	2024	4070	5993	15489	65701						
	163595	350380	516179	742115			LINR	0.00901	0.98771		0.99960	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	759	1403	2290	5627	26428						
	79658	227226	395943	627463			QUAD	0.05929	3.27148	-0.62002	0.99714	
87 n-Butylbenzene	+++++	1564	3736	5352	17285	85646						
	221359	499478	749513	1083507			QUAD	0.01300	0.76248	-0.01346	0.99976	
88 1,2-Dichlorobenzene	+++++	1873	3213	5340	14138	64478						
	158544	333550	498844	707408			LINR	0.00768	0.94527		0.99978	

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	0.2500000	0.5000000	1.0000	2.0000	5.0000	20.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
89 1,2-Dibromo-3-Chloropropane	+++++	65.00000	188	256	827	4254					
	13266	32022	50380	73753			QUAD	0.03869	12.11723	-5.49983	0.99911 <-
90 1,2,4-Trichlorobenzene	+++++	693	1543	2492	7474	37095					
	97480	219402	337577	486707			QUAD	0.01490	1.73563	-0.08281	0.99976
91 Hexachlorobutadiene	+++++	0.26354	0.24297	0.19339	0.23776	0.24417					
	0.22809	0.25208	0.25605	0.26277			AVRG		0.24231		8.96302
92 Naphthalene	+++++	1860	3927	5486	16682	95694					
	265609	586659	889446	1279650			LINR	0.04332	1.71267		0.99910
93 1,2,3-Trichlorobenzene	+++++	0.55872	0.62099	0.45824	0.50492	0.56217					
	0.54144	0.59863	0.60506	0.62017			AVRG		0.56337		9.82298
130 Ethyl Acetate	+++++	0.47818	0.42702	0.40062	0.41004	0.43939					
	0.42269	0.42777	0.41363	0.42080			AVRG		0.42668		5.23591
131 Methyl Acrylate	+++++	1823	3276	5720	12024	49034					

	124639	242950	371780	515432			LINR	-0.01745	0.49164		0.99986

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240507.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
132 n-Butanol	+++++	0.01710	0.01520	0.01131	0.01259	0.01171					
	0.01316	0.01297	0.01330	+++++			AVRG		0.01342		14.10655
133 Ethyl Acrylate	+++++	0.83891	0.68148	0.82152	0.86351	0.97387					
	1.01677	0.99617	1.00339	1.01938			AVRG		0.91278		12.89218
134 Cyclohexanone	+++++	789	1788	3320	7960	31021					
	83410	167333	251800	+++++			LINR	-0.04356	0.02358		0.99991
135 1,4-Dioxane	197	412	818	1012	2798	10394					
	27674	51178	78579	111654			LINR	-0.29197	0.00528		0.99933
136 n-Hexane	+++++	811	1884	2449	7275	31596					
	75823	168177	249117	363692			QUAD	-0.00282	3.14010	-0.18006	0.99947
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.23700	0.29017	0.19783	0.28944	0.28723					

	0.25901	0.27820	0.27330	0.28212			AVRG		0.26603		11.57316

ALS Laboratory Group

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
146 Methyl Acetate	+++++	1937	3883	5867	16801	59820					
	138501	280480	408705	566150			LINR	-0.03664	0.54097		0.99930
147 Methylcyclohexane	+++++	0.56179	0.44802	0.55222	0.58127	0.66402					
	0.69235	0.68117	0.68682	0.69663			AVRG		0.61825		14.04047
149 Isopropyl alcohol	+++++	2485	4473	6724	16893	63675					
	155054	300487	444241	+++++			LINR	-0.64007	0.02965		0.99891
152 Amyl alcohol	+++++	551	878	2053	6413	25462					
	69820	146565	231157	332830			QUAD	0.10500	95.53064	-13.51304	0.99998
150 Allyl alcohol	+++++	811	1884	2449	7275	31596					
	75823	168177	249117	363692			QUAD	-0.05630	62.80207	-3.60113	0.99947
151 4-Methyl-2-pentanol	+++++	4761	8960	16169	51970	230659					
	599037	1257802	1993529	2880850			LINR	0.69651	0.09307		0.99885
148 Tert-butyl alcohol	+++++	2735	6018	9237	21887	76161					

	186489	354421	538019	763294			LINR	-0.55429	0.03599		0.99951

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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
139 Diethyl ether	+++++	0.42928	0.37121	0.40546	0.36816	0.34143					
	0.33879	0.30189	0.30152	0.29977			AVRG		0.35084		13.33970
140 1,3-Butadiene	+++++	0.28800	0.37763	0.28710	0.33650	0.33824					
	0.30646	0.32738	0.32070	0.33333			AVRG		0.32393		8.66958
141 Cyclohexane	+++++	5220	6206	6934	13919	45991					
	105816	236338	356274	516629			LINR	-0.00503	0.48405		0.99874
142 Tetrahydrofuran	+++++	509	1229	1900	4287	16410					
	40651	76388	115705	160482			LINR	-0.06765	0.07637		0.99947
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	706	1629	2888	9215	47046					

	123916	275408	420083	603435			LINR	0.04099	0.80686		0.99898

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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	
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	+++++ / 1.39707	1.60133 / 1.27018	1.39782 / 1.26242	1.62106 / 1.25951	1.46114	1.45825	AVRG		1.41431		9.68895	
157 n-Heptane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++ / 0.70635	0.74946 / 0.65931	0.57393 / 0.65350	0.80664 / 0.64910	0.81846	0.77017	AVRG		0.70966		11.60699	
159 Propylene oxide	+++++	+++++	0.03731	0.03917	0.03548	0.03598						

	0.03193	0.02816	0.02988	0.03106			AVRG		0.03362		11.61685	<-

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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	+++++	1617	2730	5241	12890	58996						
	183116	416154	681141	991139			QUAD	0.02780	1.71455	-0.11953	0.99952	
163 Butyl methacrylate	+++++	0.52126	0.51177	0.64570	0.68988	0.63824						
	0.59971	0.67914	0.76250	0.77865			AVRG		0.64743		14.44385	
164 Dicyclopentadiene	+++++	6222	7350	16464	39433	173400						
	433675	859217	1316712	1841641			LINR	-0.00156	2.46413		0.99977	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.84087	1.52189	1.96114	1.94105	2.02334						

	1.93078	1.80146	1.84512	1.83487			AVRG		1.85561		7.79266

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
167 Ethanol	+++++	520	1084	1541	3194	11839					
	29675	55066	83180	115408			LINR	-0.82095	0.00548		0.99935
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	+++++	0.40754	0.40917	0.34251	0.35981	0.33680					
	0.34069	0.30221	0.35636	+++++			AVRG		0.35689		10.14161
173 3,3-Dimethyl-1-butanol	+++++	3047	5673	8149	23589	88345					
	216329	428323	677428	977684			LINR	0.30790	0.03485		0.99828
174 tert-Amyl methyl ether	+++++	1.17456	1.07750	1.08473	1.12351	1.15851					
	1.16468	1.10634	1.14357	1.12480			AVRG		1.12869		3.07001
175 tert-Butyl ethyl ether	+++++	1.21051	1.09354	1.25978	1.14833	1.15056					

	1.13923	1.08608	1.10140	1.12348			AVRG		1.14588		4.97687

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
176 tert-Amyl alcohol	+++++	0.03950	0.03357	0.03328	0.03450	0.03372						
	0.03407	0.03022	0.03564	+++++			AVRG		0.03431		7.58918	
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	+++++	0.02245	0.02496	0.02203	0.01889	0.01873						

	0.02065	0.02074	0.02129	0.02239			AVRG		0.02135		9.00349

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	0.06521	0.07399	0.06899	0.09181	0.08922	AVRG		0.08050		11.33723	
	0.08235	0.08527	0.08230	0.08542								
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.45799	0.49551	0.49750	0.57763	0.47473	AVRG		0.51393		10.03675	
	0.45413	0.51865	0.55242	0.59684								
188 Isopropyl acetate	+++++	0.56571	0.72074	0.68406	0.68834	0.74269						

	0.73461	0.72893	0.73146	0.77768			AVRG		0.70825		8.51919

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189 n-Butyl acetate	+++++	1111	2135	3570	10359	51789						
	144160	330461	508889	743802			LINR	0.05902	0.53481		0.99769	
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	+++++	1055	2602	3690	9909	33458						
	85820	160542	240390	313789			LINR	-0.22087	0.07657		0.99719	
195 Methyl Amyl Ketone	+++++	1474	3132	5882	17489	76437						

	211223	445917	714947	1025172			LINR	0.04774	0.73776		0.99806

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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	+++++ / 54839	292 / 150878	584 / 299141	1323 / +++++	3642	17116	QUAD	0.03849	5.62969	-2.61836	0.99811
201 1-Butene(1) (2)	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

| | +++++ | +++++ | +++++ | +++++ | | | AVRG | | 0.000e+000 | | 0.000e+000 | <-

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202 Isobutylene	+++++	262	304	1563	4808	20583					
	49587	100002	153193	210955			LINR	-0.00630	0.20238		0.99987
203 2-Ethylhexyl Acrylate	+++++	664	1047	2400	5129	30339					
	101193	227102	367719	532256			QUAD	0.03680	1.67098	-0.10315	0.99927
M 94 1,2-Dichloroethylene (total)	+++++	1797	3981	5714	14584	61859					
	146348	317013	475700	675267			QUAD	-0.01013	3.22099	-0.04399	0.99980
M 95 Xylenes (total)	+++++	0.30309	0.36099	0.29934	0.32997	0.37660					
	0.36382	0.38737	0.37557	0.38919			AVRG		0.35399		9.80093
$ 30 Dibromofluoromethane	+++++	1673	2915	4422	9896	39563					
	90004	178142	262465	361095			LINR	-0.04301	0.34508		0.99929
$ 35 1,2-Dichloroethane-d4	+++++	2366	3917	5718	13371	50052					
	111558	214226	311362	424260			LINR	-0.06398	0.40622		0.99834
$ 48 Toluene-d8	+++++	6516	10301	15047	36394	148038					

	338905	665665	978016	1351380			LINR	-0.03495	0.97808		0.99962

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 69 4-Bromofluorobenzene	+++++	3252	4236	5812	13624	54594					
	126399	244719	360368	501218			LINR	-0.03720	0.36141		0.99962

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

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	41.7	83.5	80-120	
1,1,1-Trichloroethane	50.0	42.6	85.2	80-120	
1,1,2,2-Tetrachloroethane	50.0	41.4	82.7	80-120	
Freon TF	50.0	41.0	82.0	80-120	
Methyl acetate	50.0	42.6	85.2	80-120	
Cyclohexane	50.0	40.2	80.4	80-120	
Methylcyclohexane	50.0	49.3	98.6	80-120	
Carbon Disulfide	100	84.2	84.2	80-120	
2-Hexanone	100	81.6	81.6	80-120	
1,1,2-Trichloroethane	50.0	40.4	80.8	80-120	
1,1-Dichloroethane	50.0	41.7	83.3	80-120	
1,1-Dichloroethene	50.0	43.0	86.0	80-120	
1,1-Dichloropropene	50.0	40.5	81.0	80-120	
1,2,3-Trichlorobenzene	50.0	41.8	83.6	80-120	
1,2,3-Trichloropropane	50.0	40.5	81.0	80-120	
1,2,4-Trichlorobenzene	50.0	42.2	84.4	80-120	
1,2,4-Trimethylbenzene	50.0	45.9	91.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	40.7	81.5	80-120	
1,2-Dibromoethane	50.0	43.4	86.8	80-120	
Acrolein	100	83.6	83.6	80-120	
Acrylonitrile	100	92.4	92.4	80-120	
1,2-Dichlorobenzene	50.0	41.3	82.6	80-120	
1,2-Dichloroethane	50.0	40.2	80.3	80-120	
1,2-Dichloropropane	50.0	41.5	82.9	80-120	
1,3,5-Trimethylbenzene	50.0	44.9	89.8	80-120	
1,3-Dichlorobenzene	50.0	40.7	81.5	80-120	
1,3-Dichloropropane	50.0	41.8	83.7	80-120	
1,4-Dichlorobenzene	50.0	41.1	82.2	80-120	
1-Chlorohexane	50.0	40.6	81.2	80-120	
2,2-Dichloropropane	50.0	40.0	80.0	80-120	
2-Butanone	100	83.1	83.1	80-120	
2-Chloroethylvinyl ether	100	107	107	80-120	
2-Chlorotoluene	50.0	40.7	81.4	80-120	
4-Chlorotoluene	50.0	42.5	85.0	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.1	92.2	80-120	
4-Methyl-2-Pentanone	100	88.4	88.4	80-120	
Acetone	100	86.5	86.5	80-120	
Acetonitrile	500	436	87.2	80-120	
Allyl Chloride	50.0	41.2	82.3	80-120	
Benzene	50.0	40.3	80.6	80-120	
Bromobenzene	50.0	40.7	81.4	80-120	
Bromochloromethane	50.0	42.7	85.4	80-120	
Bromodichloromethane	50.0	42.4	84.9	80-120	
Bromoform	50.0	41.8	83.7	80-120	
Bromomethane	50.0	51.0	102	80-120	
Carbon Tetrachloride	50.0	41.0	82.1	80-120	
Chlorobenzene	50.0	40.4	80.9	80-120	
Chloroethane	50.0	41.7	83.3	80-120	
Chloroform	50.0	40.1	80.3	80-120	
Chloromethane	50.0	43.5	87.0	80-120	
Chloroprene	50.0	43.1	86.1	80-120	
cis-1,2-Dichloroethene	50.0	41.7	83.4	80-120	
cis-1,3-Dichloropropene	50.0	42.0	84.0	80-120	
Dibromochloromethane	50.0	41.1	82.3	80-120	
Dibromomethane	50.0	40.4	80.9	80-120	
Dichlorodifluoromethane	50.0	40.6	81.2	80-120	
Ethylbenzene	50.0	43.2	86.4	80-120	
Ethyl Methacrylate	50.0	40.3	80.6	80-120	
Iodomethane	100	82.6	82.6	80-120	
Isobutyl Alcohol	1000	906	90.6	70-130	
Propionitrile	500	457	91.3	70-130	
Hexachlorobutadiene	50.0	40.9	81.7	80-120	
Isopropylbenzene	50.0	45.6	91.1	80-120	
m,p-Xylenes	100	89.0	89.0	80-120	
Methyl tert-butyl ether	50.0	42.3	84.6	80-120	
Methylene Chloride	50.0	42.8	85.6	80-120	
Methacrylonitrile	50.0	43.6	87.2	80-120	
Methyl Methacrylate	50.0	44.9	89.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U050714.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U050714.D
Fraction VOA
SampleType METHSPIKE
Inj Date 07-MAY-2024 1625

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	41.6	83.2	80-120	
n-Propylbenzene	50.0	44.9	89.7	80-120	
Naphthalene	50.0	40.3	80.7	80-120	
o-Xylene	50.0	44.3	88.6	80-120	
sec-Butylbenzene	50.0	44.6	89.3	80-120	
Styrene	50.0	46.4	92.9	80-120	
tert-Butylbenzene	50.0	44.6	89.3	80-120	
Tetrachloroethene	50.0	42.7	85.4	80-120	
Toluene	50.0	43.2	86.4	80-120	
trans-1,2-Dichloroethene	50.0	41.6	83.2	80-120	
trans-1,3-Dichloropropene	50.0	42.1	84.2	80-120	
trans-1,4-Dichloro-2-butene	50.0	42.2	84.4	80-120	
Trichloroethene	50.0	41.7	83.4	80-120	
Trichlorofluoromethane	50.0	40.7	81.5	80-120	
Vinyl Acetate	100	81.1	81.1	80-120	
Vinyl Chloride	50.0	41.0	82.0	80-120	
Methyl Acrylate	50.0	45.3	90.7	80-120	
Ethyl Acrylate	50.0	48.8	97.5	80-120	
Butyl acrylate	50.0	44.8	89.6	80-120	
2-Ethylhexyl Acrylate	50.0	43.7	87.3	80-120	
Allyl alcohol	1000	812	81.2	80-120	
1,2-Dichloroethylene (total)	100	83.3	83.3	80-120	
Xylenes (total)	150	131	87.6	80-120	
1,4-Dioxane	1000	857	85.7	80-120	
Dibromofluoromethane	50.0	50.5	101	71-125	
1,2-Dichloroethane-d4	50.0	50.2	100	70-125	
Toluene-d8	50.0	51.1	102	75-125	
4-Bromofluorobenzene	50.0	51.2	102	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U051302.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051302.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 1006
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	48.5	0.283	0.100	2.98	20.0	Quadratic	
Chloromethane	50.0	49.9	0.389	0.100	0.278	20.0	Quadratic	
Propionitrile	500	445	0.055	0.010	11.1	20.0	Linear	
Vinyl Chloride	50.0	49.3	0.390	0.100	1.50	20.0	Quadratic	
Bromomethane	50.0	45.9	0.190	0.100	8.12	20.0	Linear	
Chloroethane	50.0	48.2	0.260	0.100	3.62	20.0	Quadratic	
Trichlorofluoromethane	50.0	51.6	0.478	0.100	-3.169	20.0	Quadratic	
Acrolein	100	89.9	0.017	0.010	10.1	20.0	Linear	
Acetone	100	88.8	0.113	0.100	11.2	20.0	Linear	
1,1-Dichloroethene	50.0	50.3	0.262	0.100	-0.672	20.0	Quadratic	
Isobutyl Alcohol	0.053	0.055	0.055	0.005	-3.398	20.0	Averaged	
Acetonitrile	0.050	0.047	0.047	0.005	4.42	20.0	Averaged	
Allyl Chloride	1.26	1.10	1.10	0.100	12.7	20.0	Averaged	
Iodomethane	100	93.1	0.294	0.100	6.85	20.0	Quadratic	
Acrylonitrile	100	90.1	0.147	0.050	9.94	20.0	Linear	
Methylene Chloride	50.0	48.7	0.330	0.100	2.55	20.0	Linear	
Methyl tert-butyl ether	1.17	0.991	0.991	0.100	15.0	20.0	Averaged	
Carbon Disulfide	0.786	0.809	0.809	0.100	-2.940	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	51.7	0.302	0.100	-3.480	20.0	Quadratic	
Vinyl Acetate	0.215	0.194	0.194	0.010	9.90	20.0	Averaged	
1,1-Dichloroethane	50.0	52.3	0.583	0.200	-4.652	20.0	Linear	
Chloroprene	50.0	54.6	0.125	0.100	-9.290	20.0	Quadratic	
2-Butanone	0.158	0.144	0.144	0.100	8.59	20.0	Averaged	
Methacrylonitrile	0.272	0.264	0.264	0.100	3.15	20.0	Averaged	
2,2-Dichloropropane	50.0	61.3	0.443	0.100	-22.526	20.0	Quadratic	*
cis-1,2-Dichloroethene	50.0	51.5	0.348	0.100	-3.071	20.0	Quadratic	
Chloroform	0.575	0.586	0.586	0.200	-1.917	20.0	Averaged	
Bromochloromethane	50.0	51.1	0.167	0.100	-2.290	20.0	Linear	
30 Dibromofluoromethane	50.0	53.6	0.385	0.100	-7.279	20.0	Linear	
1,1,1-Trichloroethane	0.411	0.461	0.461	0.100	-12.180	20.0	Averaged	
1,1-Dichloropropene	0.288	0.288	0.288	0.100	-0.138	20.0	Averaged	
1,2-Dichloroethane	0.326	0.315	0.315	0.100	3.40	20.0	Averaged	
Carbon Tetrachloride	50.0	53.5	0.253	0.100	-7.010	20.0	Quadratic	
35 1,2-Dichloroethane-d4	50.0	54.7	0.470	0.100	-9.346	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U051302.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051302.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 1006
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.897	0.879	0.879	0.500	2.01	20.0	Averaged	
Trichloroethene	50.0	51.5	0.221	0.200	-2.989	20.0	Quadratic	
Bromodichloromethane	0.254	0.285	0.285	0.200	-12.186	20.0	Averaged	
Methyl Methacrylate	0.174	0.167	0.167	0.100	4.36	20.0	Averaged	
2-Chloroethylvinyl ether	100	91.3	0.002	0.001	8.70	20.0	Quadratic	
1,2-Dichloropropane	50.0	52.3	0.245	0.100	-4.529	20.0	Linear	
2-Nitropropane	0.098	0.096	0.096	0.000	1.71	20.0	Averaged	
Dibromomethane	0.147	0.143	0.143	0.100	3.07	20.0	Averaged	
4-Methyl-2-Pentanone	0.283	0.286	0.286	0.100	-1.281	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	55.1	0.346	0.200	-10.223	20.0	Quadratic	
48 Toluene-d8	50.0	54.7	1.10	0.100	-9.405	20.0	Linear	
Ethyl Methacrylate	0.366	0.296	0.296	0.100	19.2	20.0	Averaged	
Toluene	0.987	1.04	1.04	0.400	-5.569	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	56.4	0.290	0.100	-12.713	20.0	Quadratic	
2-Hexanone	100	91.3	0.187	0.100	8.67	20.0	Linear	
1,1,2-Trichloroethane	0.205	0.203	0.203	0.100	1.08	20.0	Averaged	
1,3-Dichloropropane	0.432	0.430	0.430	0.100	0.397	20.0	Averaged	
Dibromochloromethane	50.0	49.6	0.242	0.100	0.870	20.0	Linear	
Tetrachloroethene	50.0	53.2	0.198	0.200	-6.475	20.0	Quadratic	
1,2-Dibromoethane	0.230	0.233	0.233	0.100	-1.377	20.0	Averaged	
1-Chlorohexane	50.0	56.4	0.233	0.100	-12.847	20.0	Quadratic	
Chlorobenzene	0.686	0.670	0.670	0.500	2.41	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	50.9	0.234	0.100	-1.807	20.0	Linear	
Ethylbenzene	0.324	0.341	0.341	0.100	-5.103	20.0	Averaged	
m,p-Xylenes	0.392	0.436	0.436	0.100	-11.208	20.0	Averaged	
o-Xylene	0.391	0.428	0.428	0.300	-9.414	20.0	Averaged	
Styrene	0.661	0.743	0.743	0.300	-12.384	20.0	Averaged	
Bromoform	50.0	50.2	0.148	0.100	-0.488	20.0	Quadratic	
Isopropylbenzene	0.941	1.06	1.06	0.100	-12.827	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	48.8	0.620	0.300	2.37	20.0	Linear	
69 4-Bromofluorobenzene	50.0	55.4	0.414	0.100	-10.718	20.0	Linear	
1,2,3-Trichloropropane	0.637	0.623	0.623	0.100	2.18	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	51.9	0.076	0.050	-3.829	20.0	Quadratic	
n-Propylbenzene	2.01	2.33	2.33	0.100	-15.763	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U051302.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051302.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 1006
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.543	0.528	0.528	0.100	2.62	20.0	Averaged	
1,3,5-Trimethylbenzene	1.46	1.61	1.61	0.100	-10.857	20.0	Averaged	
2-Chlorotoluene	1.36	1.40	1.40	0.100	-2.920	20.0	Averaged	
4-Chlorotoluene	1.53	1.64	1.64	0.100	-6.687	20.0	Averaged	
tert-Butylbenzene	1.22	1.34	1.34	0.100	-9.574	20.0	Averaged	
1,2,4-Trimethylbenzene	1.43	1.62	1.62	0.100	-13.463	20.0	Averaged	
sec-Butylbenzene	1.61	1.81	1.81	0.100	-12.699	20.0	Averaged	
p-Isopropyltoluene	1.40	1.60	1.60	0.100	-14.232	20.0	Averaged	
1,3-Dichlorobenzene	0.949	0.932	0.932	0.600	1.80	20.0	Averaged	
1,4-Dichlorobenzene	50.0	50.1	0.980	0.400	-0.164	20.0	Linear	
Benzyl Chloride	50.0	54.8	0.339	0.010	-9.645	20.0	Quadratic	
n-Butylbenzene	50.0	54.3	1.45	0.500	-8.690	20.0	Quadratic	
1,2-Dichlorobenzene	50.0	50.0	0.938	0.400	-0.009	20.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	46.9	0.077	0.050	6.19	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	51.6	0.603	0.200	-3.195	20.0	Quadratic	
Hexachlorobutadiene	0.242	0.262	0.262	0.100	-8.256	20.0	Averaged	
Naphthalene	50.0	45.7	1.49	0.200	8.51	20.0	Linear	
1,2,3-Trichlorobenzene	0.563	0.564	0.564	0.100	-0.077	20.0	Averaged	
Methyl Acetate	50.0	43.8	0.494	0.100	12.3	20.0	Linear	
Freon TF	0.266	0.286	0.286	0.100	-7.447	20.0	Averaged	
Cyclohexane	50.0	53.3	0.519	0.100	-6.686	20.0	Linear	
Tetrahydrofuran	100	92.1	0.073	0.001	7.88	20.0	Linear	
Methylcyclohexane	0.618	0.618	0.618	0.100	0.084	20.0	Averaged	
1,4-Dioxane	1000	835	0.004	0.001	16.5	20.0	Linear	
n-Butanol	0.013	0.011	0.011	0.005	16.1	20.0	Averaged	
n-Hexane	50.0	58.7	0.383	0.100	-17.452	20.0	Quadratic	
Diethyl ether	0.351	0.296	0.296	0.100	15.7	20.0	Averaged	
Tert-butyl alcohol	1000	883	0.033	0.005	11.7	20.0	Linear	
Isopropyl alcohol	1000	906	0.028	0.005	9.40	20.0	Linear	
Amyl alcohol	1000	877	0.009	0.005	12.3	20.0	Quadratic	
Diisopropyl ether	1.41	1.31	1.31	0.100	7.29	20.0	Averaged	
Butyl acrylate	50.0	45.2	0.530	0.100	9.69	20.0	Quadratic	
n-Amyl acetate	0.514	0.520	0.520	0.100	-1.106	20.0	Averaged	
Dicyclopentadiene	50.0	44.9	2.22	0.100	10.2	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

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

Project Longhorn GW Treatment Plant Monthly Effluent Samples **HS24050531**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U051302.D

Instrument ID VOA9.i
Lab File ID U051302.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 1006
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	1.86	1.68	1.68	0.100	9.61	20.0	Averaged	
Ethanol	1000	969	0.006	0.001	3.14	20.0	Linear	
tert-Butyl formate	0.357	0.316	0.316	0.100	11.5	20.0	Averaged	
3,3-Dimethyl-1-butanol	1000	809	0.028	0.005	19.1	20.0	Linear	
tert-Amyl methyl ether	1.13	1.09	1.09	0.005	3.32	20.0	Averaged	
tert-Butyl ethyl ether	1.15	1.10	1.10	0.100	3.57	20.0	Averaged	
tert-Amyl alcohol	0.034	0.028	0.028	0.005	19.7	20.0	Averaged	
4-Methyl-2-pentanol	1000	843	0.075	0.005	15.7	20.0	Linear	
1,3-Butadiene	0.324	0.334	0.334	0.100	-3.112	20.0	Averaged	
Dichlorofluoromethane	0.710	0.641	0.641	0.100	9.68	20.0	Averaged	
Epichlorohydrin	0.021	0.018	0.018	0.001	15.1	20.0	Averaged	
94 1,2-Dichloroethylene (total	100	103	0.325	0.200	-3.264	20.0	Quadratic	
95 Xylenes (total)	0.354	0.393	0.393	0.100	-11.010	20.0	Averaged	
alpha-Methylstyrene	50.0	48.6	0.751	0.100	2.79	20.0	Linear	
Ethyl Acetate	0.427	0.387	0.387	0.100	9.25	20.0	Averaged	
Methyl Acrylate	50.0	45.3	0.454	0.100	9.44	20.0	Linear	
n-Butyl acetate	50.0	47.1	0.472	0.100	5.80	20.0	Linear	
Cyclohexanone	1000	854	0.020	0.005	14.6	20.0	Linear	
Isoprene	0.080	0.087	0.087	0.010	-8.546	20.0	Averaged	
Isopropyl acetate	0.708	0.725	0.725	0.100	-2.411	20.0	Averaged	
Allyl alcohol	1000	1175	0.019	0.004	-17.452	20.0	Quadratic	
Acetaldehyde	200	182	0.074	0.001	9.08	20.0	Linear	
Methyl Amyl Ketone	50.0	42.1	0.587	0.100	15.7	20.0	Linear	
Dimethyl Disulfide	50.0	53.3	0.201	0.020	-6.556	20.0	Quadratic	
Isobutylene	50.0	50.0	0.204	0.010	-0.069	20.0	Linear	
Ethyl Acrylate	0.913	0.927	0.927	0.100	-1.601	20.0	Averaged	
Butyl methacrylate	0.647	0.639	0.639	0.100	1.32	20.0	Averaged	
Propylene oxide	0.034	0.028	0.028	0.005	18.2	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	49.5	0.592	0.100	0.962	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U051330.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051330.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 2049
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	43.0	0.250	0.100	14.0	50.0	Quadratic	
Chloromethane	50.0	42.0	0.328	0.100	16.0	50.0	Quadratic	
Propionitrile	500	399	0.050	0.010	20.3	50.0	Linear	
Vinyl Chloride	50.0	42.6	0.337	0.100	14.7	50.0	Quadratic	
Bromomethane	50.0	36.6	0.152	0.100	26.8	50.0	Linear	
Chloroethane	50.0	46.2	0.249	0.100	7.54	50.0	Quadratic	
Trichlorofluoromethane	50.0	47.9	0.444	0.100	4.22	50.0	Quadratic	
Acrolein	100	69.4	0.013	0.010	30.6	50.0	Linear	
Acetone	100	75.1	0.097	0.100	24.9	50.0	Linear	
1,1-Dichloroethene	50.0	47.6	0.248	0.100	4.83	50.0	Quadratic	
Isobutyl Alcohol	0.053	0.047	0.047	0.005	10.3	50.0	Averaged	
Acetonitrile	0.050	0.042	0.042	0.005	14.4	50.0	Averaged	
Allyl Chloride	1.26	0.983	0.983	0.100	22.2	50.0	Averaged	
Iodomethane	100	72.5	0.224	0.100	27.5	50.0	Quadratic	
Acrylonitrile	100	82.1	0.135	0.050	17.9	50.0	Linear	
Methylene Chloride	50.0	47.1	0.320	0.100	5.80	50.0	Linear	
Methyl tert-butyl ether	1.17	0.887	0.887	0.100	24.0	50.0	Averaged	
Carbon Disulfide	0.786	0.727	0.727	0.100	7.54	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	49.2	0.287	0.100	1.63	50.0	Quadratic	
Vinyl Acetate	0.215	0.175	0.175	0.010	18.6	50.0	Averaged	
1,1-Dichloroethane	50.0	49.4	0.550	0.200	1.23	50.0	Linear	
Chloroprene	++++	++++			++++			
2-Butanone	0.158	0.129	0.129	0.100	18.1	50.0	Averaged	
Methacrylonitrile	0.272	0.370	0.370	0.100	-36.045	50.0	Averaged	
2,2-Dichloropropane	50.0	51.3	0.369	0.100	-2.614	50.0	Quadratic	
cis-1,2-Dichloroethene	50.0	49.0	0.331	0.100	2.02	50.0	Quadratic	
Chloroform	0.575	0.558	0.558	0.200	3.01	50.0	Averaged	
Bromochloromethane	50.0	49.3	0.161	0.100	1.49	50.0	Linear	
30 Dibromofluoromethane	50.0	53.7	0.385	0.100	-7.401	50.0	Linear	
1,1,1-Trichloroethane	0.411	0.425	0.425	0.100	-3.351	50.0	Averaged	
1,1-Dichloropropene	0.288	0.271	0.271	0.100	5.72	50.0	Averaged	
1,2-Dichloroethane	0.326	0.300	0.300	0.100	7.99	50.0	Averaged	
Carbon Tetrachloride	50.0	49.7	0.234	0.100	0.665	50.0	Quadratic	
35 1,2-Dichloroethane-d4	50.0	53.0	0.457	0.100	-6.072	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

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

Project Longhorn GW Treatment Plant Monthly Effluent Samples **HS24050531**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U051330.D

Instrument ID VOA9.i
Lab File ID U051330.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 2049
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.897	0.846	0.846	0.500	5.59	50.0	Averaged	
Trichloroethene	50.0	49.6	0.213	0.200	0.784	50.0	Quadratic	
Bromodichloromethane	0.254	0.266	0.266	0.200	-4.475	50.0	Averaged	
Methyl Methacrylate	0.174	0.130	0.130	0.100	25.4+	50.0	Averaged	
2-Chloroethylvinyl ether	++++	++++						
1,2-Dichloropropane	50.0	50.2	0.235	0.100	-0.304	50.0	Linear	
2-Nitropropane	0.098	0.076	0.076	0.000	22.1	50.0	Averaged	
Dibromomethane	0.147	0.138	0.138	0.100	6.40	50.0	Averaged	
4-Methyl-2-Pentanone	0.283	0.262	0.262	0.100	7.48	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	50.0	0.313	0.200	-0.008	50.0	Quadratic	
48 Toluene-d8	50.0	55.2	1.11	0.100	-10.342	50.0	Linear	
Ethyl Methacrylate	0.366	0.254	0.254	0.100	30.6	50.0	Averaged	
Toluene	0.987	1.00	1.00	0.400	-1.354	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	50.6	0.259	0.100	-1.170	50.0	Quadratic	
2-Hexanone	100	82.4	0.168	0.100	17.6	50.0	Linear	
1,1,2-Trichloroethane	0.205	0.197	0.197	0.100	3.74	50.0	Averaged	
1,3-Dichloropropane	0.432	0.417	0.417	0.100	3.34	50.0	Averaged	
Dibromochloromethane	50.0	46.7	0.227	0.100	6.64	50.0	Linear	
Tetrachloroethene	50.0	50.7	0.188	0.200	-1.393	50.0	Quadratic	
1,2-Dibromoethane	0.230	0.223	0.223	0.100	3.10	50.0	Averaged	
1-Chlorohexane	50.0	50.8	0.210	0.100	-1.668	50.0	Quadratic	
Chlorobenzene	0.686	0.653	0.653	0.500	4.81	50.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	48.9	0.224	0.100	2.10	50.0	Linear	
Ethylbenzene	0.324	0.326	0.326	0.100	-0.731	50.0	Averaged	
m,p-Xylenes	0.392	0.419	0.419	0.100	-6.845	50.0	Averaged	
o-Xylene	0.391	0.416	0.416	0.300	-6.387	50.0	Averaged	
Styrene	0.661	0.726	0.726	0.300	-9.781	50.0	Averaged	
Bromoform	50.0	47.7	0.140	0.100	4.57	50.0	Quadratic	
Isopropylbenzene	0.941	1.03	1.03	0.100	-9.000	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	48.0	0.610	0.300	3.95	50.0	Linear	
69 4-Bromofluorobenzene	50.0	55.8	0.417	0.100	-11.671	50.0	Linear	
1,2,3-Trichloropropane	0.637	0.591	0.591	0.100	7.12	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	45.5	0.066	0.050	9.05	50.0	Quadratic	
n-Propylbenzene	2.01	2.25	2.25	0.100	-11.789	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24050531

Project Longhorn GW Treatment Plant Monthly Effluent Samples

RunID U051330.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051330.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 2049
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	0.543	0.525	0.525	0.100	3.20	50.0	Averaged	
1,3,5-Trimethylbenzene	1.46	1.60	1.60	0.100	-9.619	50.0	Averaged	
2-Chlorotoluene	1.36	1.38	1.38	0.100	-1.629	50.0	Averaged	
4-Chlorotoluene	1.53	1.59	1.59	0.100	-3.556	50.0	Averaged	
tert-Butylbenzene	1.22	1.32	1.32	0.100	-7.799	50.0	Averaged	
1,2,4-Trimethylbenzene	1.43	1.59	1.59	0.100	-11.288	50.0	Averaged	
sec-Butylbenzene	1.61	1.75	1.75	0.100	-8.868	50.0	Averaged	
p-Isopropyltoluene	1.40	1.56	1.56	0.100	-11.343	50.0	Averaged	
1,3-Dichlorobenzene	0.949	0.919	0.919	0.600	3.19	50.0	Averaged	
1,4-Dichlorobenzene	50.0	49.5	0.969	0.400	1.04	50.0	Linear	
Benzyl Chloride	50.0	42.9	0.257	0.010	14.1	50.0	Quadratic	
n-Butylbenzene	50.0	50.1	1.33	0.500	-0.174	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	50.1	0.940	0.400	-0.203	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	43.7	0.071	0.050	12.6	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	49.9	0.583	0.200	0.142	50.0	Quadratic	
Hexachlorobutadiene	0.242	0.245	0.245	0.100	-1.051	50.0	Averaged	
Naphthalene	50.0	45.2	1.47	0.200	9.59	50.0	Linear	
1,2,3-Trichlorobenzene	0.563	0.560	0.560	0.100	0.669	50.0	Averaged	
Methyl Acetate	50.0	39.9	0.451	0.100	20.2	50.0	Linear	
Freon TF	0.266	0.264	0.264	0.100	0.837	50.0	Averaged	
Cyclohexane	50.0	47.5	0.462	0.100	5.01	50.0	Linear	
Tetrahydrofuran	100	79.8	0.064	0.001	20.2	50.0	Linear	
Methylcyclohexane	0.618	0.559	0.559	0.100	9.60	50.0	Averaged	
1,4-Dioxane	1000	656	0.004	0.001	34.4	50.0	Linear	
n-Butanol	0.013	0.009	0.009	0.005	36.3	50.0	Averaged	
n-Hexane	50.0	49.7	0.323	0.100	0.656	50.0	Quadratic	
Diethyl ether	0.351	0.269	0.269	0.100	23.3	50.0	Averaged	
Tert-butyl alcohol	1000	724	0.027	0.005	27.6	50.0	Linear	
Isopropyl alcohol	1000	722	0.022	0.005	27.8	50.0	Linear	
Amyl alcohol	1000	724	0.008	0.005	27.6	50.0	Quadratic	
Diisopropyl ether	1.41	1.19	1.19	0.100	15.8	50.0	Averaged	
Butyl acrylate	50.0	40.2	0.468	0.100	19.6	50.0	Quadratic	
n-Amyl acetate	0.514	0.463	0.463	0.100	9.84	50.0	Averaged	
Dicyclopentadiene	50.0	42.3	2.09	0.100	15.3	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

RunID U051330.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U051330.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-MAY-2024 2049
ICAL Date(s) 07-MAY-2024, 07-MAY-2024
ICAL Times 12:05, 15:20
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	1.86	1.64	1.64	0.100	11.8	50.0	Averaged	
Ethanol	1000	720	0.004	0.001	28.0	50.0	Linear	
tert-Butyl formate	0.357	0.213	0.213	0.100	40.3	50.0	Averaged	
3,3-Dimethyl-1-butanol	1000	698	0.024	0.005	30.2	50.0	Linear	
tert-Amyl methyl ether	1.13	0.946	0.946	0.005	16.2	50.0	Averaged	
tert-Butyl ethyl ether	1.15	0.975	0.975	0.100	14.9	50.0	Averaged	
tert-Amyl alcohol	0.034	0.021	0.021	0.005	37.9	50.0	Averaged	
4-Methyl-2-pentanol	1000	722	0.064	0.005	27.8	50.0	Linear	
1,3-Butadiene	0.324	0.297	0.297	0.100	8.40	50.0	Averaged	
Dichlorofluoromethane	0.710	0.607	0.607	0.100	14.4	50.0	Averaged	
Epichlorohydrin	0.021	0.016	0.016	0.001	26.5	50.0	Averaged	
94 1,2-Dichloroethylene (total								
95 Xylenes (total)	0.354	0.381	0.381	0.100	-7.493	50.0	Averaged	
alpha-Methylstyrene	50.0	47.2	0.729	0.100	5.55	50.0	Linear	
Ethyl Acetate	0.427	0.350	0.350	0.100	18.1	50.0	Averaged	
Methyl Acrylate	50.0	40.4	0.406	0.100	19.2	50.0	Linear	
n-Butyl acetate	50.0	43.0	0.428	0.100	14.0	50.0	Linear	
Cyclohexanone	1000	647	0.015	0.005	35.3	50.0	Linear	
Isoprene	0.080	0.080	0.080	0.010	0.833	50.0	Averaged	
Isopropyl acetate	0.708	0.644	0.644	0.100	9.12	50.0	Averaged	
Allyl alcohol	1000	993	0.016	0.004	0.656	50.0	Quadratic	
Acetaldehyde	200	174	0.071	0.001	12.8	50.0	Linear	
Methyl Amyl Ketone	50.0	36.6	0.505	0.100	26.8	50.0	Linear	
Dimethyl Disulfide	50.0	40.0	0.145	0.020	20.0	50.0	Quadratic	
Isobutylene								
Ethyl Acrylate	0.913	0.822	0.822	0.100	9.96	50.0	Averaged	
Butyl methacrylate	0.647	0.558	0.558	0.100	13.8	50.0	Averaged	
Propylene oxide	0.034	0.022	0.022	0.005	33.2	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	41.8	0.493	0.100	16.4	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24050531

EPA SW8260

VOA9_466602		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)	U051302.D	242719	#	4.82	#	364389	#	5.55	#	330561	#	8.19	#	178356	#	10.17	#
HS24050531-01	U051326.D	229999		4.82		344867		5.55		314166		8.19		155422		10.17	
HS24050531-03	U051322.D	228407		4.82		347825		5.55		313761		8.19		155234		10.17	
VBLKW-240513	U051306.D	234387		4.82		358455		5.55		323929		8.19		159828		10.17	
VLCSW-240513	U051303.D	240622		4.82		362089		5.55		328384		8.19		174600		10.17	
MS-ZZZZZZMS	U051310.D	236893		4.82		357346		5.55		325805		8.19		176806		10.17	
ZZZZZZMSD	U051311.D	243895		4.81		366042		5.55		333095		8.19		176512		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 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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 Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24050531**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-466602

Run ID VOA9_466602 **Start Date** 05/13/24 **EndDate** 05/13/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:06	VSTD050	CCV	VSTD050	U051302.D	05/13/24	1
10:28	VLCSW-240513	LCS	VLCSW-240513	U051303.D	05/13/24	1
11:33	VBLKW-240513	MBLK	VBLKW-240513	U051306.D	05/13/24	1
12:40	HS24041892-02	SAMP	ZZZZZZZZZZ	U051309.D	05/13/24	20
13:02	HS24041892-02MS	MS	ZZZZZZMS	U051310.D	05/13/24	20
13:23	HS24041892-02MSD	MSD	ZZZZZZMSD	U051311.D	05/13/24	20
14:35	HS24050201-01	SAMP	ZZZZZZZZZZ	U051313.D	05/13/24	1000
15:23	HS24050195-04	SAMP	ZZZZZZZZZZ	U051315.D	05/13/24	5
15:47	HS24050231-01	SAMP	ZZZZZZZZZZ	U051316.D	05/13/24	25
16:52	HS24050205-05	SAMP	ZZZZZZZZZZ	U051319.D	05/13/24	1
17:56	HS24050531-03	SAMP	Trip Blank	U051322.D	05/13/24	1
19:23	HS24050531-01	SAMP	LH18/24-	U051326.D	05/13/24	1
20:06	HS24050212-03	SAMP	ZZZZZZZZZZ	U051328.D	05/13/24	1
20:28	HS24050212-02	SAMP	ZZZZZZZZZZ	U051329.D	05/13/24	1
20:49	VSTD050	CCV_END	VSTD050	U051330.D	05/13/24	1
09:23	BFB Tune	Tune	BFB	U051301.D	05/13/24	

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24050531**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467760

Run ID VOA9_467760 Start Date 05/07/24 EndDate 05/07/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:05	VSTD00.25	ICAL1	VSTD00.25	U050702.D	05/07/24	1
12:26	VSTD00.5	ICAL2	VSTD00.5	U050703.D	05/07/24	1
12:48	VSTD001	ICAL3	VSTD001	U050704.D	05/07/24	1
13:09	VSTD002	ICAL4	VSTD002	U050705.D	05/07/24	1
13:31	VSTD005	ICAL5	VSTD005	U050706.D	05/07/24	1
13:53	VSTD020	ICAL6	VSTD020	U050707.D	05/07/24	1
14:14	VSTD050	ICAL7	VSTD050	U050708.D	05/07/24	1
14:36	VSTD100	ICAL8	VSTD100	U050709.D	05/07/24	1
14:58	VSTD150	ICAL9	VSTD150	U050710.D	05/07/24	1
15:20	VSTD200	ICAL	VSTD200	U050711.D	05/07/24	1
16:25	VSTD050	ICV	VSTD050	U050714.D	05/07/24	1
11:43	BFB Tune	Tune	BFB	U050701.D	05/07/24	

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RawData

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

ALS Environmental–Houston Laboratory
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Data File: \\nahstws005\Target\chem\voa9.i\U240513.b\U051301.D Page 1
Report Date: 13-May-2024 10:23

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240513.b\U051301.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 13-MAY-2024 09:23
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\U240513.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: 2 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	1.000	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	86072			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	17528			15.00- 40.00	20.36
9.194	9.180	(0.000)	75	42800			30.00- 60.00	49.73
9.194	9.180	(0.000)	96	5901			5.00- 9.00	6.86
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	71184			50.00- 0.00	82.70
9.194	9.180	(0.000)	175	6112			5.00- 9.00	8.59
9.194	9.180	(0.000)	176	67936			95.00- 101.00	95.44
9.194	9.180	(0.000)	177	4487			5.00- 9.00	6.60

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.36
75	30.00 - 60.00% of mass 95	49.73
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.70
175	5.00 - 9.00% of mass 174	7.10 (8.59)
176	95.00 - 101.00% of mass 174	78.93 (95.44)
177	5.00 - 9.00% of mass 176	5.21 (6.60)

Data File: U051301.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.05
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1707	63.00	3212	94.00	10146	140.90	813
37.00	5071	64.00	406	95.00	86072	142.00	151
38.10	4574	65.00	540	96.00	5901	142.90	892
39.00	1780	65.90	61	97.00	164	143.80	67
39.90	261	68.00	9199	97.90	78	144.90	104
40.80	100	69.00	9406	103.10	79	145.80	153
42.10	119	70.00	705	103.90	372	147.80	237
42.90	161	72.00	531	105.00	137	150.00	92
44.00	674	73.00	3986	105.90	409	151.80	72
45.00	824	74.00	14848	106.90	84	152.70	71
45.90	114	75.00	42800	109.90	83	153.80	93
47.00	1483	76.00	3815	110.90	96	154.90	180
47.90	528	76.90	561	111.90	62	156.90	168
49.00	3904	78.00	398	114.80	134	158.90	101
50.00	17528	78.90	2490	115.90	375	160.80	111
51.00	5499	79.90	813	116.90	530	170.80	76
52.00	250	80.90	2339	117.90	266	171.90	669
52.90	92	81.90	532	118.90	468	173.90	71184
55.10	312	82.80	76	127.80	308	175.00	6112
56.00	1418	86.10	163	128.90	142	175.90	67936
57.00	2525	87.00	3867	129.90	211	176.90	4487
57.90	118	88.00	3839	130.90	167	177.90	123
60.00	945	90.90	315	134.90	211		
61.00	4256	92.00	2565	136.90	138		
62.00	4207	93.00	4195	140.00	110		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240513.b\u051301.d Page 1

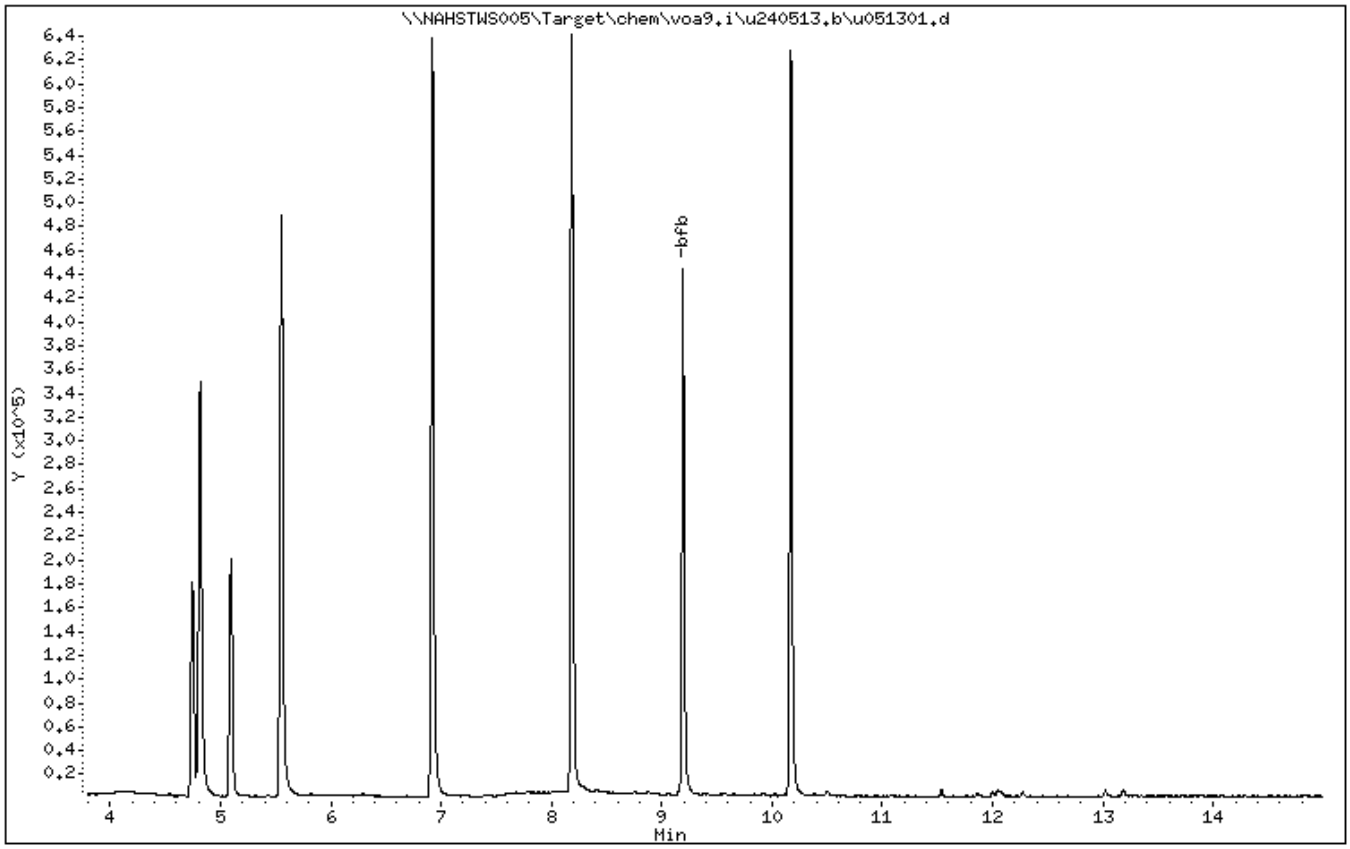
Date : 13-MAY-2024 09:23

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\u240513.b\u051301.d
Inj Date : 13-MAY-2024 09:23
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051302.D Page 1
Report Date: 20-Jun-2024 14:18

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051302.D
Lab Smp Id: VSTD050
Inj Date : 13-MAY-2024 10:06
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 20-Jun-2024 14:18 s.zaid   Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26   Cal File: U050703.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14

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)	242719	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	68622	50.0000	48.50
3	Chloromethane	50	1.291	1.291	(0.268)	94402	50.0000	49.86
4	Propionitrile	54	4.328	4.328	(0.899)	133979	500.000	444.74
5	Vinyl Chloride	62	1.370	1.370	(0.285)	94684	50.0000	49.25
6	Bromomethane	94	1.603	1.603	(0.333)	46236	50.0000	45.94
7	Chloroethane	64	1.689	1.689	(0.351)	62985	50.0000	48.19
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	116139	50.0000	51.58
9	Acrolein	56	2.259	2.259	(0.469)	8049	100.000	89.91
10	Acetone	43	2.401	2.401	(0.499)	54836	100.000	88.77
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	63654	50.0000	50.33
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	264775	1000.00	1033.98
13	Acetonitrile	39	2.664	2.664	(0.553)	115002	500.000	477.87
14	Allyl Chloride	41	2.667	2.667	(0.554)	267871	50.0000	43.64
15	Iodomethane	142	2.461	2.461	(0.511)	142838	100.000	93.14
16	Acrylonitrile	53	3.057	3.057	(0.635)	71369	100.000	90.06
17	Methylene Chloride	84	2.787	2.787	(0.579)	80184	50.0000	48.72
18	Methyl tert-butyl ether	73	3.072	3.072	(0.638)	240453	50.0000	42.47
19	Carbon Disulfide	76	2.514	2.514	(0.522)	392758	100.000	102.93
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	73340	50.0000	51.73
21	Vinyl Acetate	43	4.335	4.335	(0.900)	93980	100.000	90.09

22 1,1-Dichloroethane	63	3.507	3.507 (0.728)	141440	50.0000	52.32
23 Chloroprene	53	2.154	2.154 (0.447)	30417	50.0000	54.64(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.257	4.257	(0.884)	70089	100.000	91.41
25	Methacrylonitrile	41	4.489	4.489	(0.932)	64005	50.0000	48.42(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	107602	50.0000	61.26
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.870)	84454	50.0000	51.53
28	Chloroform	83	4.568	4.568	(0.949)	142224	50.0000	50.95
29	Bromochloromethane	128	4.463	4.463	(0.927)	40628	50.0000	51.14
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.985)	93456	50.0000	53.63
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	111954	50.0000	56.09
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	105034	50.0000	50.06
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	114653	50.0000	48.29
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	92155	50.0000	53.50
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	114121	50.0000	54.67
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	364389	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	320149	50.0000	48.99
38	Trichloroethene	130	5.786	5.786	(1.043)	80672	50.0000	51.49
39	Bromodichloromethane	83	6.274	6.274	(1.130)	104029	50.0000	56.09
40	Methyl Methacrylate	41	5.816	5.816	(1.208)	40467	50.0000	47.81
41	2-Chloroethylvinyl ether	63	6.626	6.626	(1.194)	1316	100.000	91.30(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	89350	50.0000	52.26
43	2-Nitropropane	43	6.506	6.506	(1.351)	23357	50.0000	49.14
44	Dibromomethane	93	6.116	6.116	(1.102)	51963	50.0000	48.46
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	189292	100.000	101.28
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	126262	50.0000	55.11
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	330561	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.845)	365026	50.0000	54.70
49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	107728	50.0000	40.39(M)
50	Toluene	91	6.978	6.978	(0.853)	344569	50.0000	52.78
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	105701	50.0000	56.35
52	2-Hexanone	43	7.589	7.589	(0.927)	123455	100.000	91.32
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	67031	50.0000	49.46
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	142074	50.0000	49.80
55	Dibromochloromethane	129	7.691	7.691	(0.940)	80003	50.0000	49.56
56	Tetrachloroethene	164	7.454	7.454	(0.911)	65313	50.0000	53.23(H)
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	77027	50.0000	50.68
58	1-Chlorohexane	55	8.193	8.193	(1.476)	84764	50.0000	56.42
59	Chlorobenzene	112	8.208	8.208	(1.003)	221398	50.0000	48.79
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77195	50.0000	50.90(H)
61	Ethylbenzene	106	8.305	8.305	(1.015)	112585	50.0000	52.55
62	m,p-Xylenes	106	8.407	8.407	(1.027)	288050	100.000	111.20
63	o-Xylene	106	8.744	8.744	(1.068)	141532	50.0000	54.70
64	Styrene	104	8.759	8.759	(1.070)	245676	50.0000	56.19
66	Bromoform	173	8.916	8.916	(1.089)	48981	50.0000	50.24
67	Isopropylbenzene	105	9.059	9.059	(1.107)	350949	50.0000	56.41
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	110548	50.0000	48.81(H)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	136718	50.0000	55.35
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178356	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	111104	50.0000	48.91
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	25195	50.0000	51.91
73	n-Propylbenzene	91	9.411	9.411	(0.926)	415872	50.0000	57.88
74	Bromobenzene	156	9.314	9.314	(0.916)	94253	50.0000	48.68
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	287862	50.0000	55.42
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	250130	50.0000	51.45

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	291865	50.0000	53.34
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	238848	50.0000	54.78

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051302.D Page 3
Report Date: 20-Jun-2024 14:18

	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)	288442	50.0000	56.73
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	323715	50.0000	56.34
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	285782	50.0000	57.11
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	166228	50.0000	49.10
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	174867	50.0000	50.08
86	Benzyl Chloride	91	10.311	10.311	(1.260)	111989	50.0000	54.82
87	n-Butylbenzene	91	10.491	10.491	(1.032)	257778	50.0000	54.34
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	167314	50.0000	50.00
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13718	50.0000	46.90
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	107612	50.0000	51.59
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	46786	50.0000	54.12
92	Naphthalene	128	12.065	12.065	(1.187)	266244	50.0000	45.74
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	100558	50.0000	50.03
146	Methyl acetate	43	2.705	2.705	(0.562)	119958	50.0000	43.84
138	Freon TF	101	2.330	2.330	(0.484)	69380	50.0000	53.72
141	Cyclohexane	56	4.782	4.782	(0.993)	125934	50.0000	53.34
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	35405	100.000	92.11
147	Methylcyclohexane	55	5.944	5.944	(1.071)	225096	50.0000	49.95
135	1,4-Dioxane	88	6.165	6.165	(1.280)	21770	1000.00	835.06
132	n-Butanol	56	5.816	5.816	(1.208)	54615	1000.00	838.64
136	n-Hexane	57	3.338	3.338	(0.693)	93049	50.0000	58.72
139	Diethyl ether	59	2.139	2.139	(0.444)	71783	50.0000	42.14
148	Tert-butyl alcohol	59	2.956	2.956	(0.614)	159188	1000.00	883.47
149	Isopropyl alcohol	45	2.551	2.551	(0.530)	135011	1000.00	905.97
152	Amyl alcohol	42	7.394	7.394	(0.903)	62005	1000.00	877.43
156	Diisopropyl ether	45	3.612	3.612	(0.750)	318242	50.0000	46.35
162	Butyl acrylate	55	8.733	8.733	(1.067)	175233	50.0000	45.15
187	n-Amyl acetate	43	8.928	8.928	(1.091)	171765	50.0000	50.55
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	395563	50.0000	44.92
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	299142	50.0000	45.19
167	Ethanol	45	2.075	2.075	(0.431)	26875	1000.00	968.58
172	tert-Butyl formate	59	5.235	5.235	(1.087)	153274	100.000	88.47(M)
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.950)	182971	1000.00	809.48
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	264869	50.0000	48.34
175	tert-Butyl ethyl ether	59	4.043	4.043	(0.840)	268201	50.0000	48.21
176	tert-Amyl alcohol	59	5.235	5.235	(1.087)	133695	1000.00	802.66
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	548192	1000.00	843.03
140	1,3-Butadiene	54	1.396	1.396	(0.290)	81070	50.0000	51.55
158	Dichlorofluoromethane	67	1.850	1.850	(0.384)	155577	50.0000	45.16
182	Epichlorohydrin	57	6.626	6.626	(1.194)	26422	200.000	169.82
M 94	1,2-Dichloroethylene (total)	96				157794	100.000	103.26
M 95	Xylenes (total)	106				429582	150.000	166.51
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	133996	50.0000	48.60
130	Ethyl Acetate	43	4.335	4.335	(0.900)	93980	50.0000	45.37
131	Methyl Acrylate	55	4.365	4.365	(0.907)	110144	50.0000	45.27
189	n-Butyl acetate	43	7.702	7.702	(0.941)	156095	50.0000	47.09
134	Cyclohexanone	55	9.152	9.152	(0.900)	72043	1000.00	854.36
185	Isoprene	39	2.150	2.150	(0.447)	21210	50.0000	54.27
188	Isopropyl acetate	43	5.280	5.280	(0.951)	264301	50.0000	51.20
150	Allyl alcohol	57	3.338	3.338	(0.693)	93049	1000.00	1174.51
194	Acetaldehyde	44	1.456	1.456	(0.303)	71699	200.000	181.84(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	193893	50.0000	42.13

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	66536	50.0000	53.27
202 Isobutylene	41	1.745	1.745 (0.362)	49465	50.0000	50.03(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	5.944	5.944	(1.234)	225096	50.0000	50.80
163 Butyl methacrylate	41	9.647	9.647	(0.949)	113954	50.0000	49.34
159 Propylene oxide	43	2.195	2.195	(0.456)	13351	100.000	81.80
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	105645	50.0000	49.51

QC Flag Legend

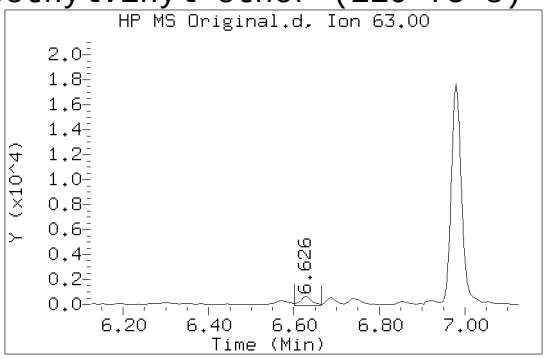
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051302.D
Inj Date : 13-MAY-2024 10:06
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
1316
HEIGHT
708
24-May-2024
14:41
rucha
patel



AFTER
MASS
63
AREA
1316
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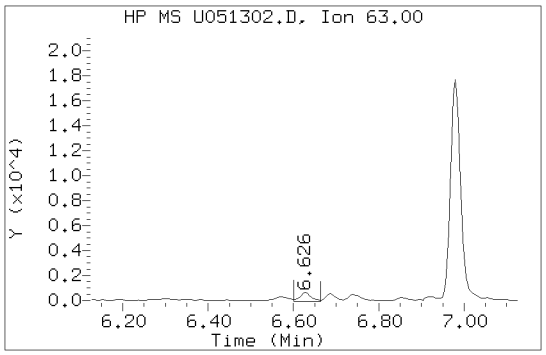
708
20-Jun-2024
14:12



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24-May-2024
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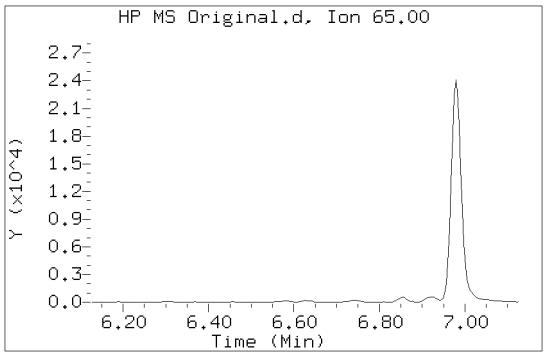

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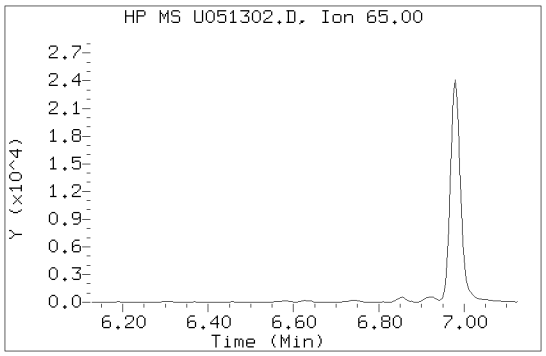

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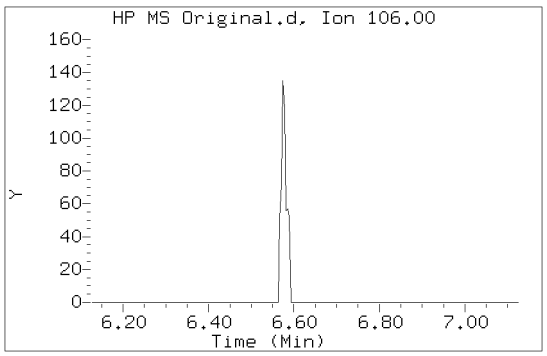

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20-Jun-2024
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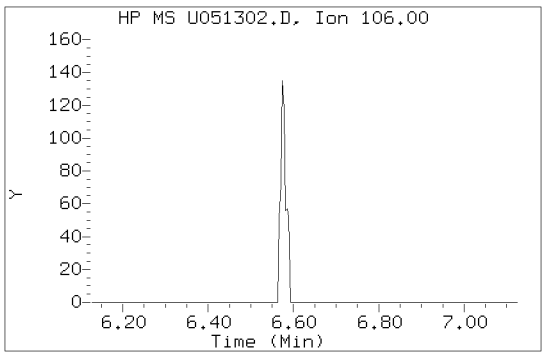

Ethyl Methacrylate (97-63-2)

Reason Code:

BEFORE
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24-May-2024
14:41
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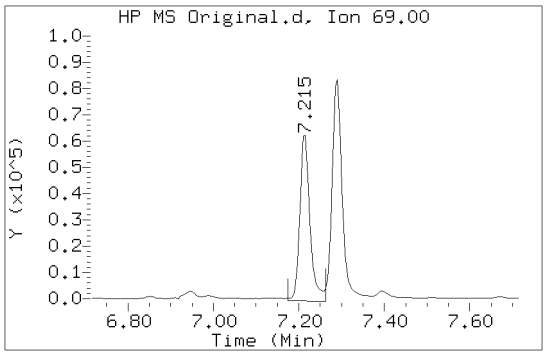
patel



AFTER
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HEIGHT
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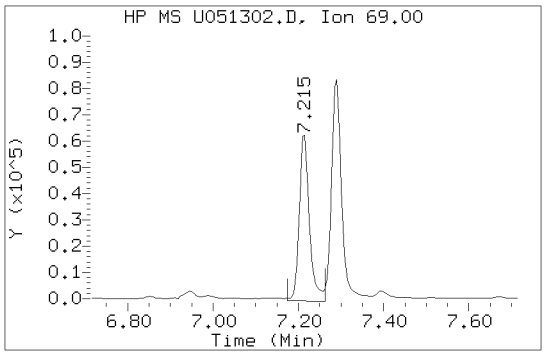
20-Jun-2024
14:12



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Inj Date : 13-MAY-2024 10:06
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Methacrylate (97-63-2)

Reason Code:

BEFORE

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24-May-2024
14:41
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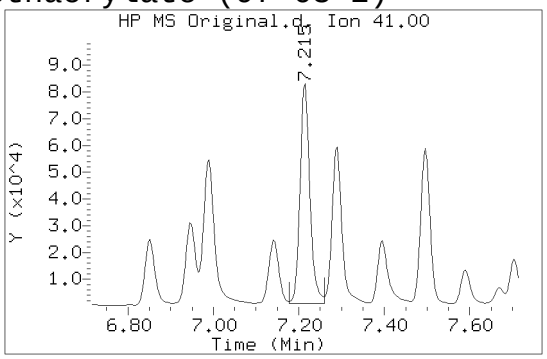

AFTER

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HEIGHT
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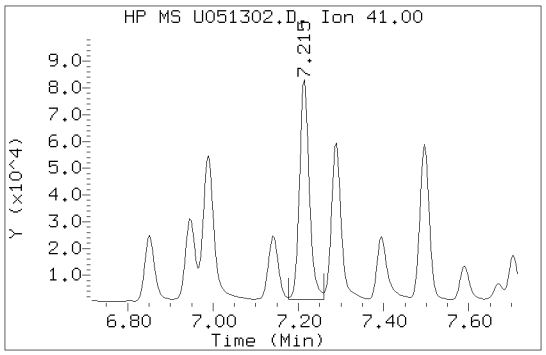
20-Jun-2024
14:12



Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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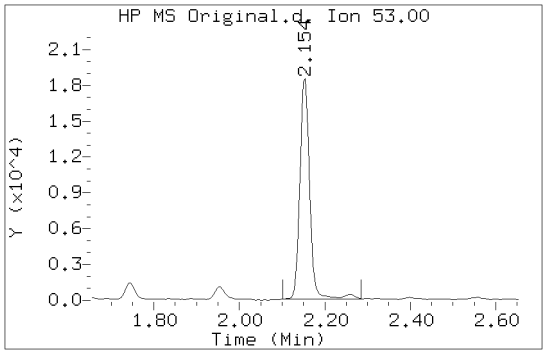
24-May-2024
14:41
rucha
patel



AFTER

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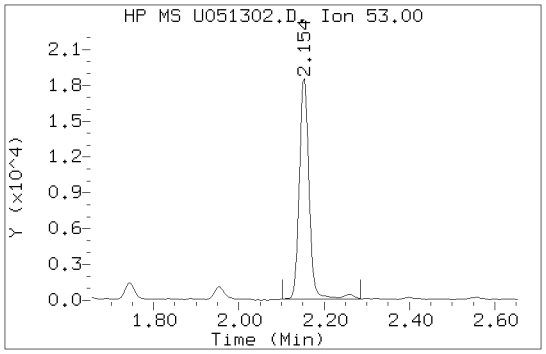
20-Jun-2024
14:12



BEFORE

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AREA
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HEIGHT
0
24-May-2024
14:41
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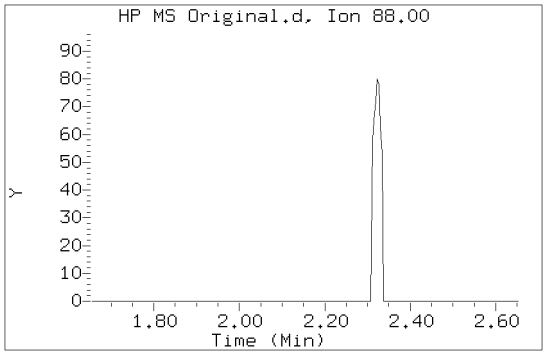
patel



AFTER

MASS
88
AREA
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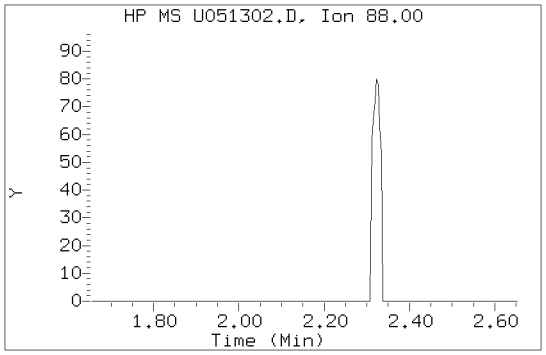
HEIGHT
0
20-Jun-2024
14:12



tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
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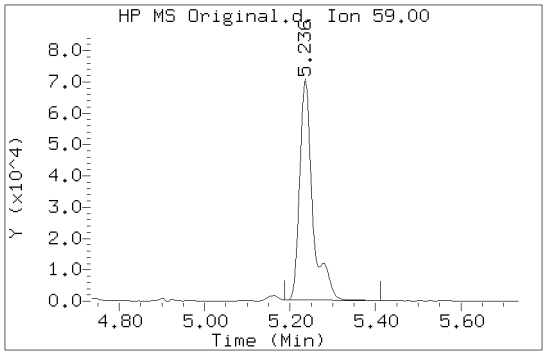
HEIGHT
70631
24-May-2024
14:41
rucha
patel



AFTER

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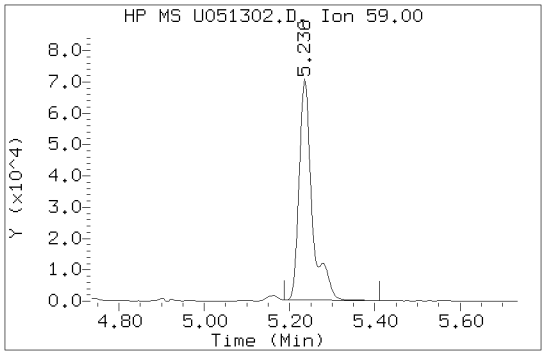
20-Jun-2024
14:12



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InstruID : VOA9.i
LabSampID : VSTD050

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
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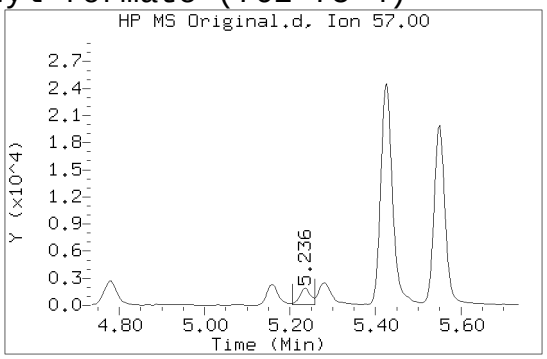
AREA
3354
HEIGHT
1858
24-May-2024
14:41
rucha
patel



AFTER
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20-Jun-2024
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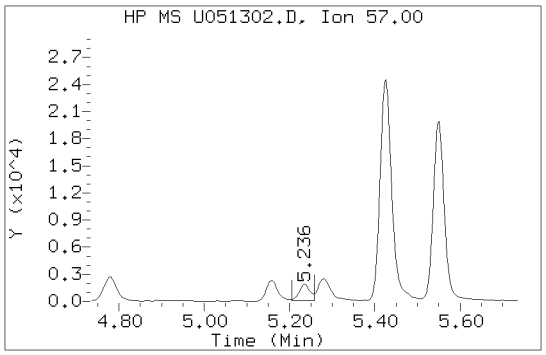

BEFORE
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16589
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14:41
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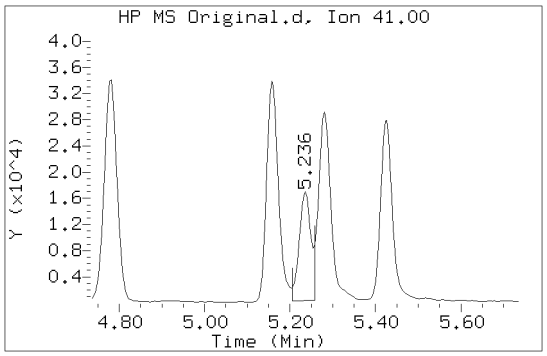

AFTER
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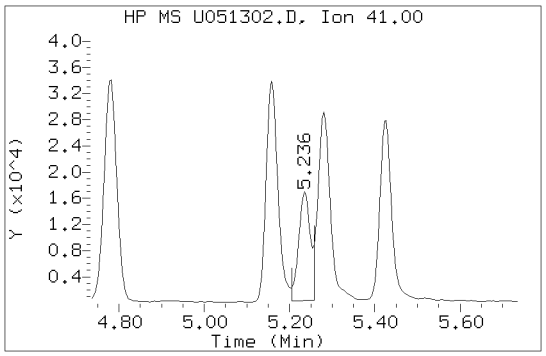
20-Jun-2024
14:12



Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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14:41
rucha
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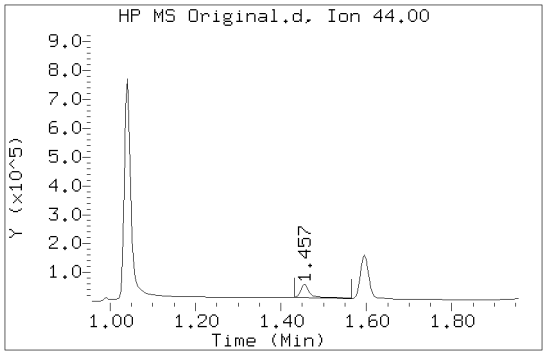

AFTER
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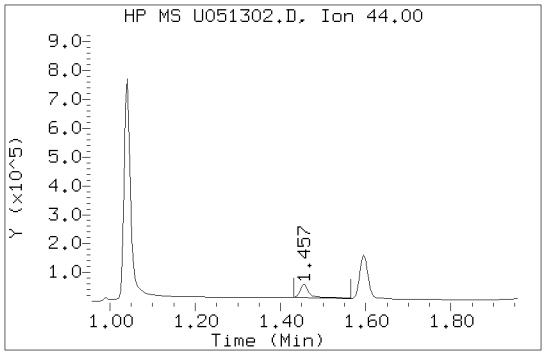
20-Jun-2024
14:12



BEFORE
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AREA
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24-May-2024
14:41
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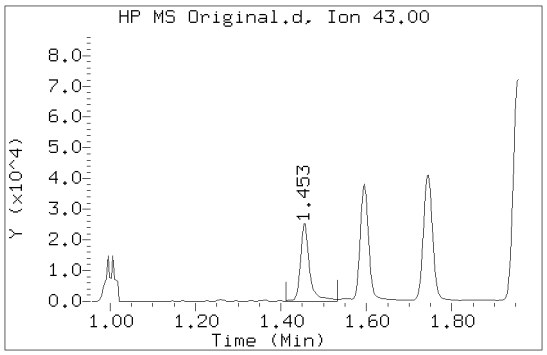
patel



AFTER
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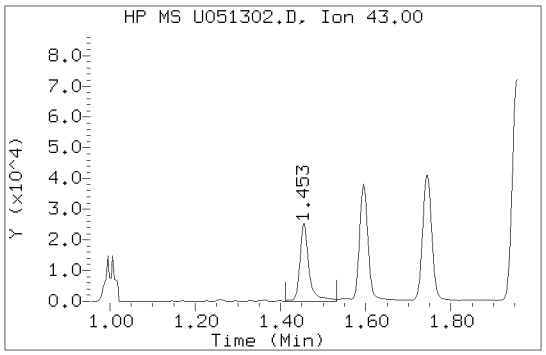
20-Jun-2024
14:12



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Inj Date : 13-MAY-2024 10:06
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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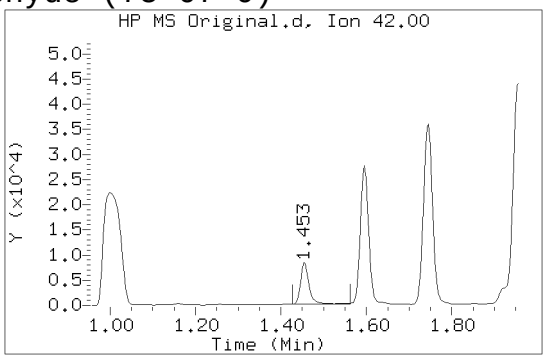
24-May-2024
14:41
rucha
patel



AFTER

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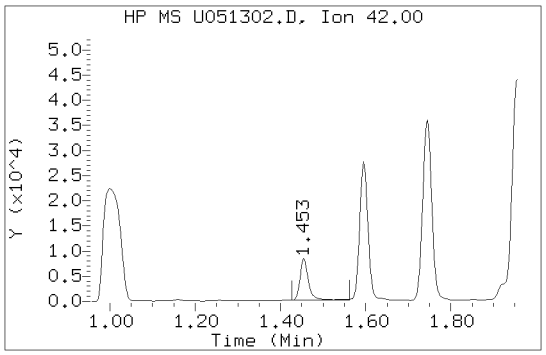
20-Jun-2024
14:12



Isobutylene (115-11-7)

Reason Code:

BEFORE

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14:41
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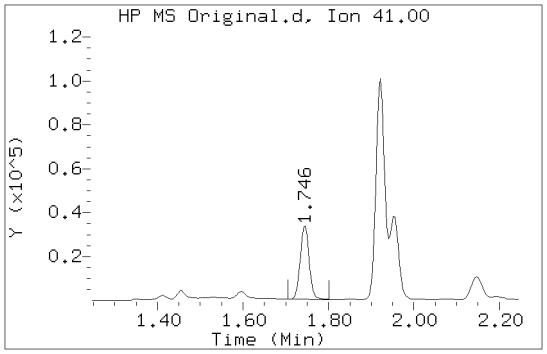

AFTER

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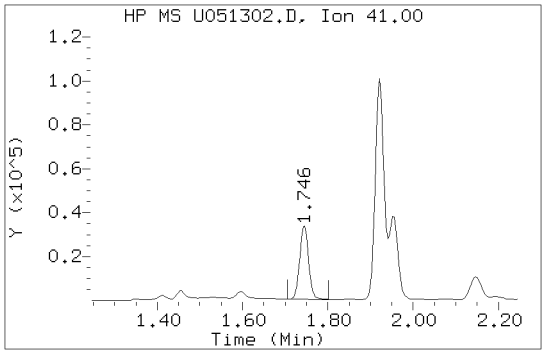

BEFORE

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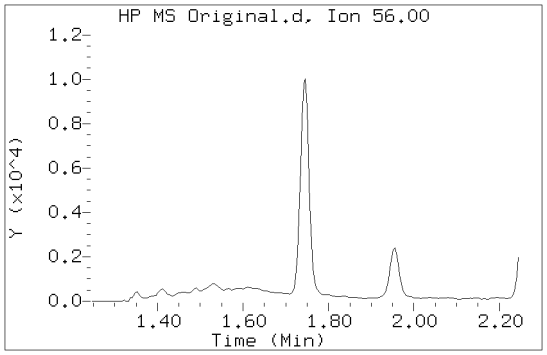

AFTER

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20-Jun-2024
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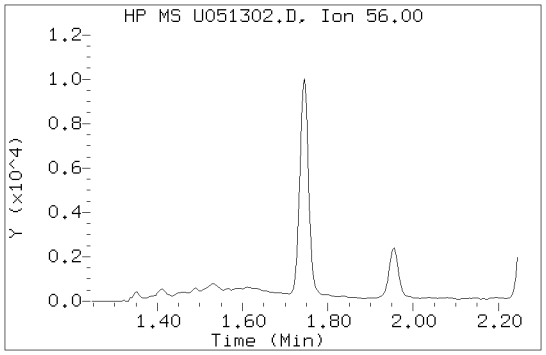

BEFORE

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24-May-2024
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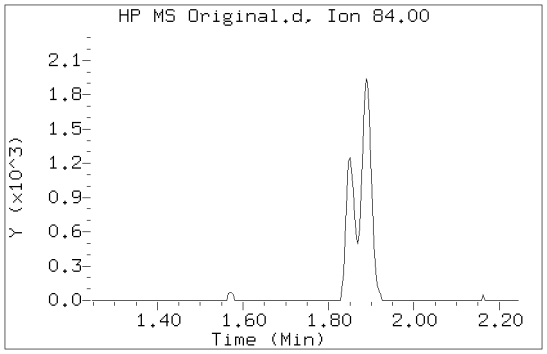

AFTER

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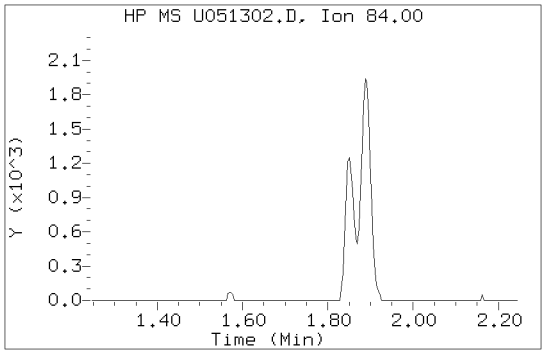
20-Jun-2024
14:12



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Report Date: 24-May-2024 14:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051303.D
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Inj Date : 13-MAY-2024 10:28
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSW-240513;VLCSW-240513;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 24-May-2024 14:41 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: 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	4.819	4.815	(1.000)	240622	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.157	(0.242)	26835	19.3903	19.39
3	Chloromethane	50	1.303	1.291	(0.270)	38124	19.9140	19.91
4	Propionitrile	54	4.339	4.328	(0.900)	53557	169.984	169.98(a)
5	Vinyl Chloride	62	1.382	1.370	(0.287)	38227	20.1229	20.12
6	Bromomethane	94	1.614	1.603	(0.335)	20772	20.4192	20.41
7	Chloroethane	64	1.700	1.689	(0.353)	27047	20.5607	20.56
8	Trichlorofluoromethane	101	1.899	1.891	(0.394)	44913	20.1529	20.15
9	Acrolein	56	2.270	2.259	(0.471)	3155	31.6837	31.68
10	Acetone	43	2.412	2.401	(0.501)	22196	33.3603	33.36
11	1,1-Dichloroethene	96	2.337	2.326	(0.485)	26007	20.7399	20.73
12	Isobutyl Alcohol	43	5.284	5.280	(1.096)	101440	399.588	399.58(a)
13	Acetonitrile	39	2.675	2.664	(0.555)	43610	182.795	182.79(a)
14	Allyl Chloride	41	2.679	2.667	(0.556)	100220	16.4731	16.47(a)
15	Iodomethane	142	2.472	2.461	(0.513)	53470	37.6375	37.63
16	Acrylonitrile	53	3.068	3.057	(0.637)	28232	33.2880	33.28
17	Methylene Chloride	84	2.799	2.787	(0.581)	33130	18.6299	18.62
18	Methyl tert-butyl ether	73	3.083	3.072	(0.640)	91681	16.3366	16.33
19	Carbon Disulfide	76	2.525	2.514	(0.524)	153855	40.6759	40.67
20	trans-1,2-Dichloroethene	96	3.065	3.053	(0.636)	29813	21.1174	21.11

21 Vinyl Acetate	43	4.343	4.335 (0.901)	37737	36.4935	36.49
22 1,1-Dichloroethane	63	3.518	3.507 (0.730)	56871	21.0577	21.05

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051303.D Page 2
Report Date: 24-May-2024 14:41

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	24	2-Butanone	43	4.268	4.257	(0.886)	28972	38.1150	38.11
	25	Methacrylonitrile	41	4.497	4.489	(0.933)	23227	17.7271	17.72(a)
	26	2,2-Dichloropropane	77	4.186	4.178	(0.869)	41449	24.5239	24.52
	27	cis-1,2-Dichloroethene	96	4.201	4.189	(0.872)	34281	21.1175	21.11
	28	Chloroform	83	4.575	4.568	(0.949)	57648	20.8352	20.83
	29	Bromochloromethane	128	4.474	4.463	(0.928)	16296	20.2413	20.24
$	30	Dibromofluoromethane	113	4.752	4.744	(0.986)	93727	54.2890	54.28
	31	1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	44364	22.4205	22.42
	32	1,1-Dichloropropene	75	4.924	4.920	(0.887)	42036	20.1656	20.16
	33	1,2-Dichloroethane	62	5.179	5.171	(0.933)	47078	19.9584	19.95
	34	Carbon Tetrachloride	117	4.913	4.909	(0.885)	34859	20.9569	20.95
$	35	1,2-Dichloroethane-d4	65	5.100	5.093	(1.058)	115778	56.0249	56.02
*	36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	362089	50.0000	
	37	Benzene	78	5.141	5.134	(0.926)	128632	19.8108	19.81
	38	Trichloroethene	130	5.790	5.786	(1.043)	32616	21.0531	21.05
	39	Bromodichloromethane	83	6.277	6.274	(1.130)	40116	21.7682	21.76
	40	Methyl Methacrylate	41	5.824	5.816	(1.208)	15593	18.5868	18.58(a)
	41	2-Chloroethylvinyl ether	63	6.630	6.626	(1.194)	408	29.1165	29.11(M)
	42	1,2-Dichloropropane	63	6.011	6.007	(1.082)	36530	21.5920	21.59
	43	2-Nitropropane	43	6.510	6.506	(1.351)	8318	17.6543	17.65
	44	Dibromomethane	93	6.120	6.116	(1.102)	20419	19.1657	19.16
	45	4-Methyl-2-Pentanone	43	6.855	6.851	(0.837)	74258	39.9952	39.99
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	47002	21.7473	21.74
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	328384	50.0000	
$	48	Toluene-d8	98	6.922	6.918	(0.846)	365948	55.2205	55.22
	49	Ethyl Methacrylate	69	7.214	7.214	(1.299)	40511	15.2859	15.28(a)
	50	Toluene	91	6.982	6.978	(0.853)	138825	21.4075	21.40
	51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	38117	21.8080	21.80
	52	2-Hexanone	43	7.589	7.589	(0.927)	48558	38.2995	38.29
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	27544	20.4596	20.45
	54	1,3-Dichloropropane	76	7.499	7.496	(0.916)	59314	20.9293	20.92
	55	Dibromochloromethane	129	7.691	7.691	(0.940)	29469	19.9233	19.92
	56	Tetrachloroethene	164	7.458	7.454	(0.911)	25752	21.2986	21.29
	57	1,2-Dibromoethane	107	7.784	7.780	(0.951)	30746	20.3668	20.36
	58	1-Chlorohexane	55	8.197	8.193	(1.476)	33996	22.1739	22.17
	59	Chlorobenzene	112	8.208	8.208	(1.003)	91364	20.2699	20.26
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	29115	20.5348	20.53
	61	Ethylbenzene	106	8.305	8.305	(1.015)	45319	21.2939	21.29
	62	m,p-Xylenes	106	8.407	8.407	(1.027)	113648	44.1673	44.16
	63	o-Xylene	106	8.748	8.744	(1.069)	55309	21.5207	21.52
	64	Styrene	104	8.763	8.759	(1.071)	97897	22.5398	22.53
	66	Bromoform	173	8.916	8.916	(1.089)	17076	19.1093	19.10
	67	Isopropylbenzene	105	9.063	9.059	(1.107)	138037	22.3359	22.33
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45295	20.6668	20.66
$	69	4-Bromofluorobenzene	95	9.194	9.190	(1.123)	136006	55.4386	55.43
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174600	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	44685	20.0944	20.09
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	9773	21.2354	21.23(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	161223	22.9219	22.92
	74	Bromobenzene	156	9.317	9.314	(0.916)	38061	20.0844	20.08
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	113764	22.3768	22.37
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	100284	21.0755	21.07

77	4-Chlorotoluene	91	9.576	9.572 (0.942)	117567	21.9498	21.94
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	93900	22.0021	22.00

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051303.D Page 3
Report Date: 24-May-2024 14:41

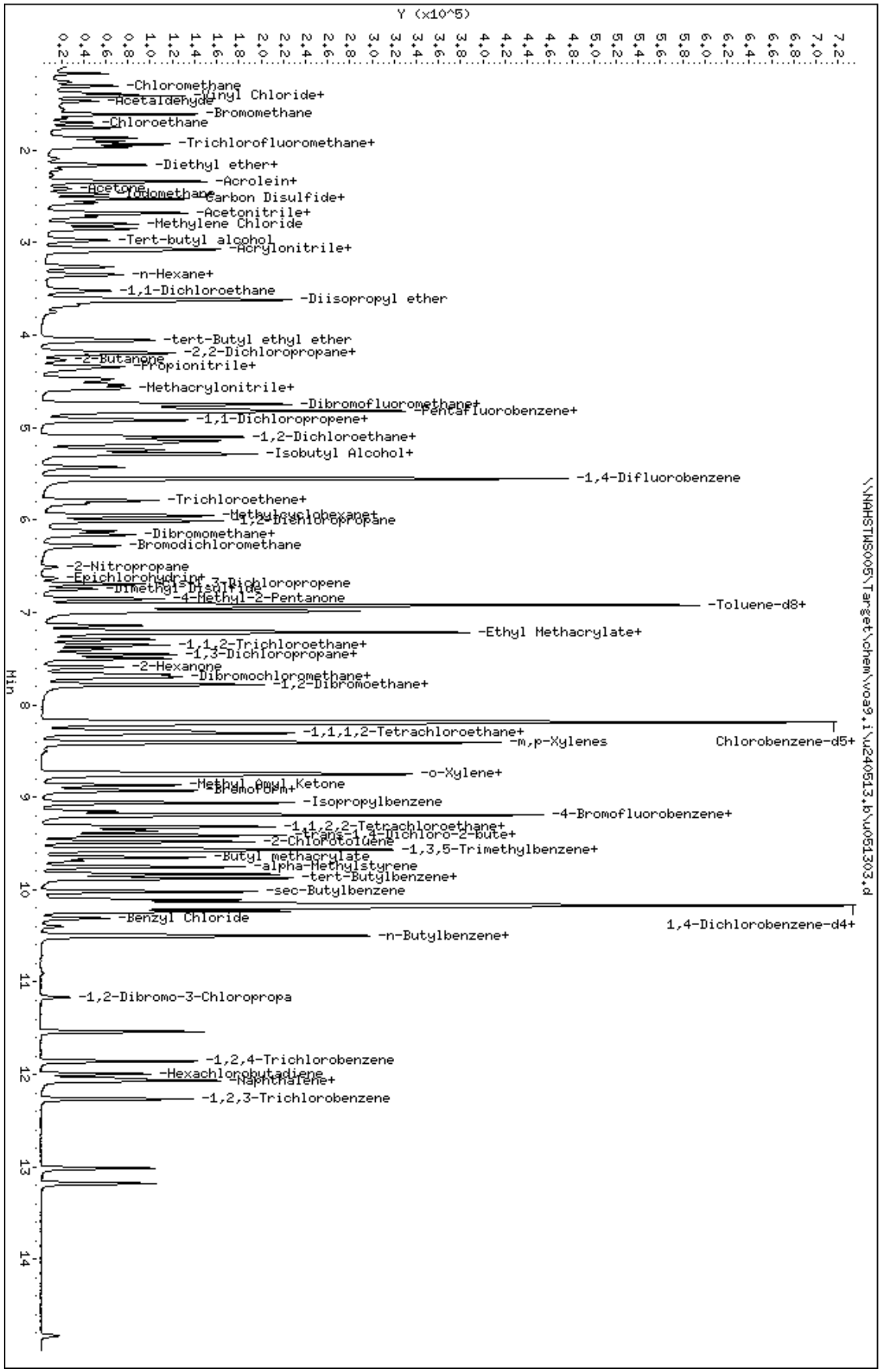
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	116014	23.3089	23.30
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	124718	22.1769	22.17
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	111443	22.7520	22.75
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	67976	20.5108	20.51
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	71400	21.1514	21.15
86	Benzyl Chloride	91	10.311	10.311	(1.260)	38684	21.8035	21.80
87	n-Butylbenzene	91	10.491	10.491	(1.032)	96782	21.5757	21.57
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	67665	20.8834	20.88
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	5012	19.0995	19.09
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	43171	21.9490	21.94
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	17836	21.0789	21.07
92	Naphthalene	128	12.065	12.065	(1.187)	107909	20.2088	20.20
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	41511	21.1005	21.10
146	Methyl acetate	43	2.720	2.705	(0.564)	49776	17.2879	17.28
138	Freon TF	101	2.341	2.330	(0.486)	26797	20.9307	20.93
141	Cyclohexane	56	4.785	4.782	(0.993)	50882	21.5915	21.59
142	Tetrahydrofuran	42	4.545	4.534	(0.943)	14242	35.3675	35.36
147	Methylcyclohexane	55	5.947	5.944	(1.071)	83032	18.5453	18.54
135	1,4-Dioxane	88	6.169	6.165	(1.280)	8439	317.640	317.63
132	n-Butanol	56	5.824	5.816	(1.208)	21169	327.893	327.89(a)
136	n-Hexane	57	3.346	3.338	(0.694)	35435	22.7852	22.78
139	Diethyl ether	59	2.150	2.139	(0.446)	27781	16.4543	16.45
148	Tert-butyl alcohol	59	2.971	2.956	(0.617)	65168	348.555	348.55
149	Isopropyl alcohol	45	2.570	2.551	(0.533)	52056	332.804	332.80
152	Amyl alcohol	42	7.398	7.394	(0.904)	24161	353.028	353.02
156	Diisopropyl ether	45	3.623	3.612	(0.752)	119972	17.6267	17.62
162	Butyl acrylate	55	8.733	8.733	(1.067)	61395	17.2090	17.20
187	n-Amyl acetate	43	8.931	8.928	(1.091)	70205	20.7993	20.79
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	149487	17.2948	17.29
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	113893	17.5766	17.57
167	Ethanol	45	2.090	2.075	(0.434)	10395	352.874	352.87
172	tert-Butyl formate	59	5.243	5.235	(1.088)	53582	31.1978	31.19
173	3,3-Dimethyl-1-butanol	57	7.781	7.777	(0.951)	75830	346.675	346.67
174	tert-Amyl methyl ether	73	5.288	5.284	(1.097)	98947	18.2164	18.21
175	tert-Butyl ethyl ether	59	4.054	4.043	(0.841)	100139	18.1593	18.15
176	tert-Amyl alcohol	59	5.243	5.235	(1.088)	53582	324.495	324.49
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	209122	345.096	345.09
140	1,3-Butadiene	54	1.408	1.396	(0.292)	31477	20.1921	20.19
158	Dichlorofluoromethane	67	1.861	1.850	(0.386)	59089	17.3018	17.30
182	Epichlorohydrin	57	6.630	6.626	(1.194)	10554	68.2638	68.26
M 94	1,2-Dichloroethylene (total)	96				64094	42.2357	42.23
M 95	Xylenes (total)	106				168957	65.9075	65.90
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	52137	20.5541	20.55
130	Ethyl Acetate	43	4.343	4.335	(0.901)	37737	18.3780	18.37
131	Methyl Acrylate	55	4.373	4.365	(0.907)	42432	17.0618	17.06
189	n-Butyl acetate	43	7.706	7.702	(0.941)	58813	19.6951	19.69
134	Cyclohexanone	55	9.153	9.152	(0.900)	29020	350.273	350.27(a)
185	Isoprene	39	2.161	2.150	(0.449)	8422	21.7385	21.73
188	Isopropyl acetate	43	5.284	5.280	(0.951)	102028	19.8925	19.89
150	Allyl alcohol	57	3.346	3.338	(0.694)	35435	455.705	455.70
194	Acetaldehyde	44	1.468	1.456	(0.305)	50831	126.896	126.89
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	73052	17.4636	17.46

200 Dimethyl Disulfide	94	6.746	6.742 (0.824)	18526	17.3878	17.38
133 Ethyl Acrylate	55	5.947	5.944 (1.234)	83032	18.9023	18.90

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)	47303	20.9230	20.92
159 Propylene oxide	43	2.206	2.195	(0.458)	4916	30.3830	30.38
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	35924	18.8120	18.81

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: VLCSW-240513
Sample Info: VLCSW-240513;VLCSW-240513;3;;LCS
Purge Volume: 5.0
Column phase: DB624

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

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Inj Date : 13-MAY-2024 10:28
InstruID : VOA9.i
LabSampID : VLCSW-240513

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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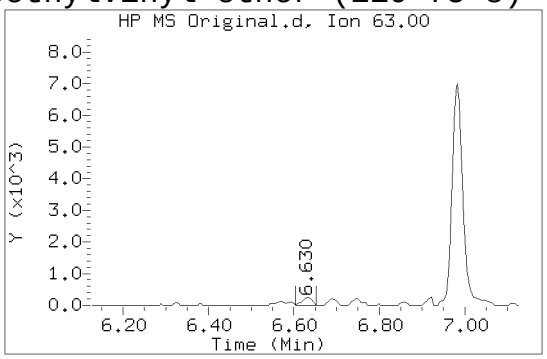
408
HEIGHT
241
24-May-2024
14:41
rucha
patel



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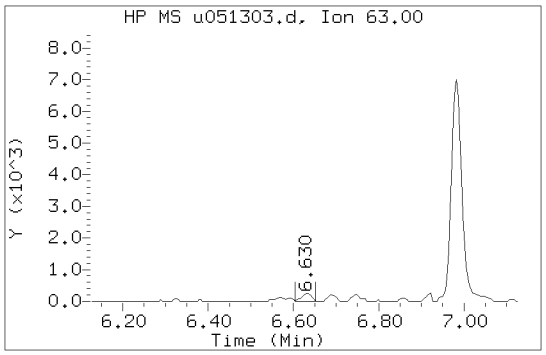

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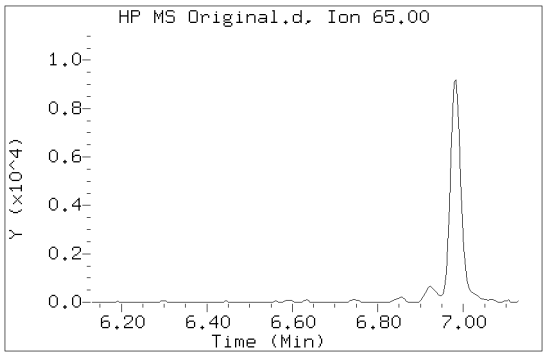

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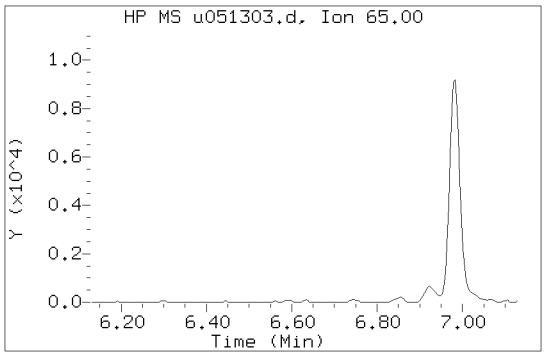

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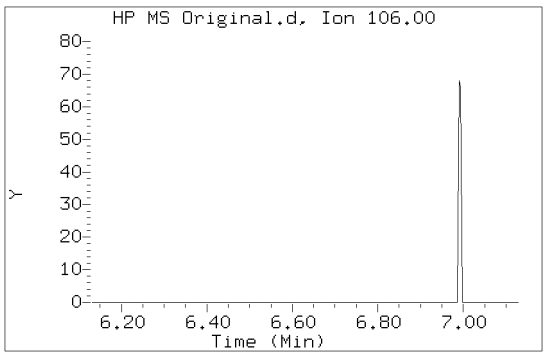

AFTER

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24-May-2024
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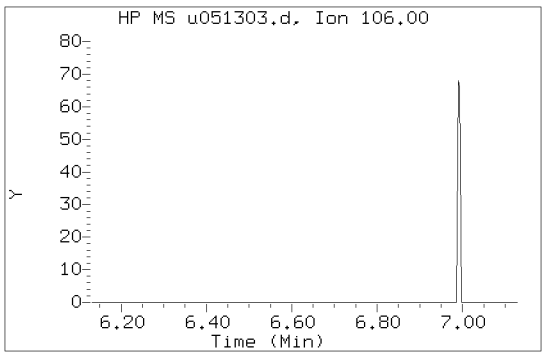

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Report Date: 24-May-2024 14:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051306.D
Lab Smp Id: VBLKW-240513 Client Smp ID: VBLKW-240513
Inj Date : 13-MAY-2024 11:33
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240513;VBLKW-240513;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 24-May-2024 14:41 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: NAHSTW7056

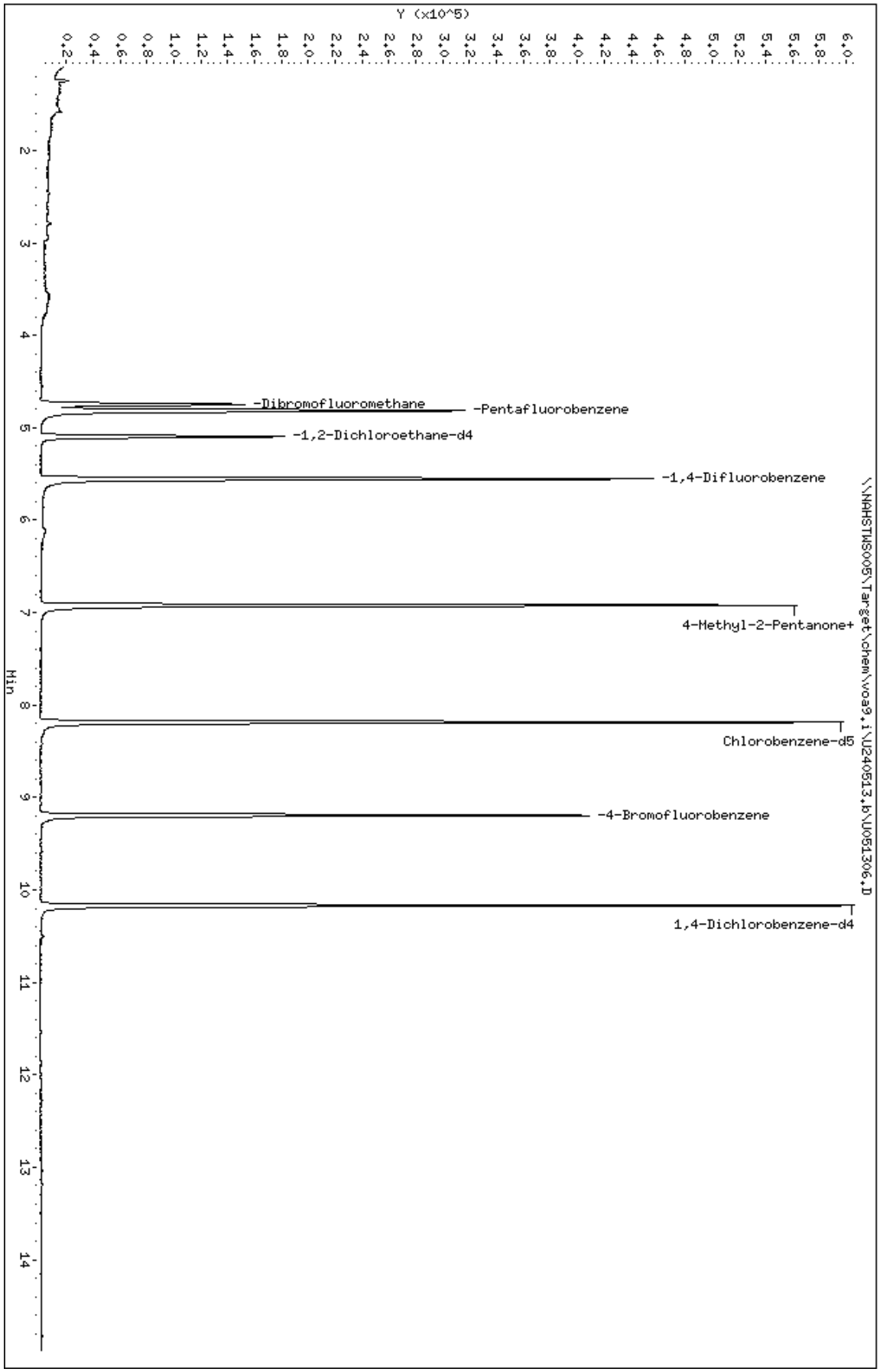
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	(1.000)	234387	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	89867	53.4041	53.40
$ 35 1,2-Dichloroethane-d4	65	5.097	5.093	(1.058)	116327	57.8886	57.88
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	358455	50.0000	
45 4-Methyl-2-Pentanone	43	6.918	6.851	(0.845)	1790	0.97735	0.97(a)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	323929	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	356825	54.5643	54.56
49 Ethyl Methacrylate	69	6.918	7.214	(1.247)	1456	0.55496	0.55(a)
$ 69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	127389	52.5464	52.54
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159828	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).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Date : 13-MAY-2024 11:33
Client ID: VBLKW-240513
Sample Info: VBLKW-240513;VBLKW-240513;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
4-Methyl-2-Pentanone+
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9,i\U240513,b\U051306,D

Data File : \\nahstws005\target\chem\voa9.i\u240513.b\u051306.d
Inj Date : 13-MAY-2024 11:33
InstruID : VOA9.i
LabSampID : VBLKW-240513

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051310.D Page 1
Report Date: 24-May-2024 14:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051310.D
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Inj Date : 13-MAY-2024 13:02
Operator : FT Inst ID: VOA9.i
Smp Info : HS24041892-02MS;HS24041892-02MS;3;;MS
Misc Info : V9;WATER;0;20;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 24-May-2024 14:41 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.D
Als bottle: 9 QC Sample: MS
Dil Factor: 20.00000
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	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.815	(1.000)	236893	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.157	(0.243)	27357	20.0698	401.39
3	Chloromethane	50	1.306	1.291	(0.271)	37511	19.9017	398.03
4	Propionitrile	54	4.343	4.328	(0.901)	48568	155.340	3106.80(a)
5	Vinyl Chloride	62	1.385	1.370	(0.287)	39264	20.9956	419.91
6	Bromomethane	94	1.621	1.603	(0.337)	21385	21.3861	427.72
7	Chloroethane	64	1.704	1.689	(0.354)	27120	20.9520	419.04
8	Trichlorofluoromethane	101	1.902	1.891	(0.395)	48490	22.1064	442.12
9	Acrolein	56	2.270	2.259	(0.471)	2632	25.8709	517.41
10	Acetone	43	2.416	2.401	(0.501)	21816	33.2972	665.94
11	1,1-Dichloroethene	96	2.341	2.326	(0.486)	26705	21.6417	432.83
12	Isobutyl Alcohol	43	5.287	5.280	(1.097)	99163	396.768	7935.35(a)
13	Acetonitrile	39	2.678	2.664	(0.556)	37029	157.653	3153.06(a)
14	Allyl Chloride	41	2.678	2.667	(0.556)	89153	14.8847	297.69(a)
15	Iodomethane	142	2.476	2.461	(0.514)	51351	36.7700	735.40
16	Acrylonitrile	53	3.072	3.057	(0.638)	24674	29.0558	581.11
17	Methylene Chloride	84	2.802	2.787	(0.582)	34938	20.1605	403.21
18	Methyl tert-butyl ether	73	3.087	3.072	(0.641)	80291	14.5322	290.64
19	Carbon Disulfide	76	2.528	2.514	(0.525)	151953	40.8055	816.10
20	trans-1,2-Dichloroethene	96	3.064	3.053	(0.636)	30152	21.7021	434.04

21 Vinyl Acetate	43	4.347	4.335 (0.902)	37789	37.1191	742.38
22 1,1-Dichloroethane	63	3.518	3.507 (0.730)	57053	21.4629	429.25

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051310.D Page 2
Report Date: 24-May-2024 14:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	2.165	2.154	(0.449)	11899	21.6406	432.81(M)
	24 2-Butanone	43	4.272	4.257	(0.886)	27073	36.1774	723.54
	25 Methacrylonitrile	41	4.500	4.489	(0.934)	18328	14.2083	284.16(a)
	26 2,2-Dichloropropane	77	4.185	4.178	(0.869)	40785	24.5113	490.22
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	33898	21.2105	424.21
	28 Chloroform	83	4.575	4.568	(0.949)	56795	20.8500	417.00
	29 Bromochloromethane	128	4.474	4.463	(0.928)	16078	20.2865	405.72
$	30 Dibromofluoromethane	113	4.751	4.744	(0.986)	91677	53.9235	53.92
	31 1,1,1-Trichloroethane	97	4.748	4.740	(0.985)	44844	23.0199	460.39
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	43808	21.2946	425.89
	33 1,2-Dichloroethane	62	5.179	5.171	(0.933)	44914	19.2937	385.87
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	35320	21.5010	430.01
$	35 1,2-Dichloroethane-d4	65	5.100	5.093	(1.058)	112241	55.1194	55.11
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	357346	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	128312	20.0238	400.47
	38 Trichloroethene	130	5.790	5.786	(1.043)	32979	21.5707	431.41
	39 Bromodichloromethane	83	6.277	6.274	(1.130)	37383	20.5544	411.08
	40 Methyl Methacrylate	41	5.827	5.816	(1.209)	12934	15.6600	313.19(a)
	41 2-Chloroethylvinyl ether	63	6.633	6.626	(1.194)	372	26.9667	539.33(M)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	35144	21.0523	421.04
	43 2-Nitropropane	43	6.510	6.506	(1.351)	7462	16.0869	321.73
	44 Dibromomethane	93	6.120	6.116	(1.102)	19983	19.0054	380.10
	45 4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	70580	38.3151	766.30
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	43377	20.4200	408.40
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	325805	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	356393	54.1722	54.17
	49 Ethyl Methacrylate	69	7.218	7.214	(1.300)	35172	13.4475	268.95(a)
	50 Toluene	91	6.982	6.978	(0.853)	139940	21.7502	435.00
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	35469	20.6538	413.07
	52 2-Hexanone	43	7.593	7.589	(0.928)	46664	37.2082	744.16
	53 1,1,2-Trichloroethane	83	7.357	7.353	(0.899)	25545	19.1249	382.49
	54 1,3-Dichloropropane	76	7.499	7.496	(0.916)	55015	19.5661	391.32
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	27787	19.0567	381.13
	56 Tetrachloroethene	164	7.458	7.454	(0.911)	27568	22.9811	459.62
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	29185	19.4858	389.71
	58 1-Chlorohexane	55	8.196	8.193	(1.476)	35192	23.3268	466.53
	59 Chlorobenzene	112	8.211	8.208	(1.003)	88459	19.7807	395.61
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	28913	20.5519	411.03
	61 Ethylbenzene	106	8.305	8.305	(1.015)	45594	21.5927	431.85
	62 m,p-Xylenes	106	8.410	8.407	(1.027)	116609	45.6768	913.53
	63 o-Xylene	106	8.747	8.744	(1.069)	56002	21.9628	439.25
	64 Styrene	104	8.762	8.759	(1.071)	96328	22.3541	447.08
	66 Bromoform	173	8.916	8.916	(1.089)	16468	18.6240	372.47
	67 Isopropylbenzene	105	9.062	9.059	(1.107)	143243	23.3617	467.23
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.325	(0.917)	44463	20.0465	400.92
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	135215	55.5563	55.55
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176806	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	43225	19.1953	383.90
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9685	21.2118	424.23(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	166851	23.4261	468.52
	74 Bromobenzene	156	9.317	9.314	(0.916)	37508	19.5456	390.91
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	116335	22.5970	451.94

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	102382	21.2480	424.95
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	117968	21.7498	434.99

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051310.D Page 3
Report Date: 24-May-2024 14:41

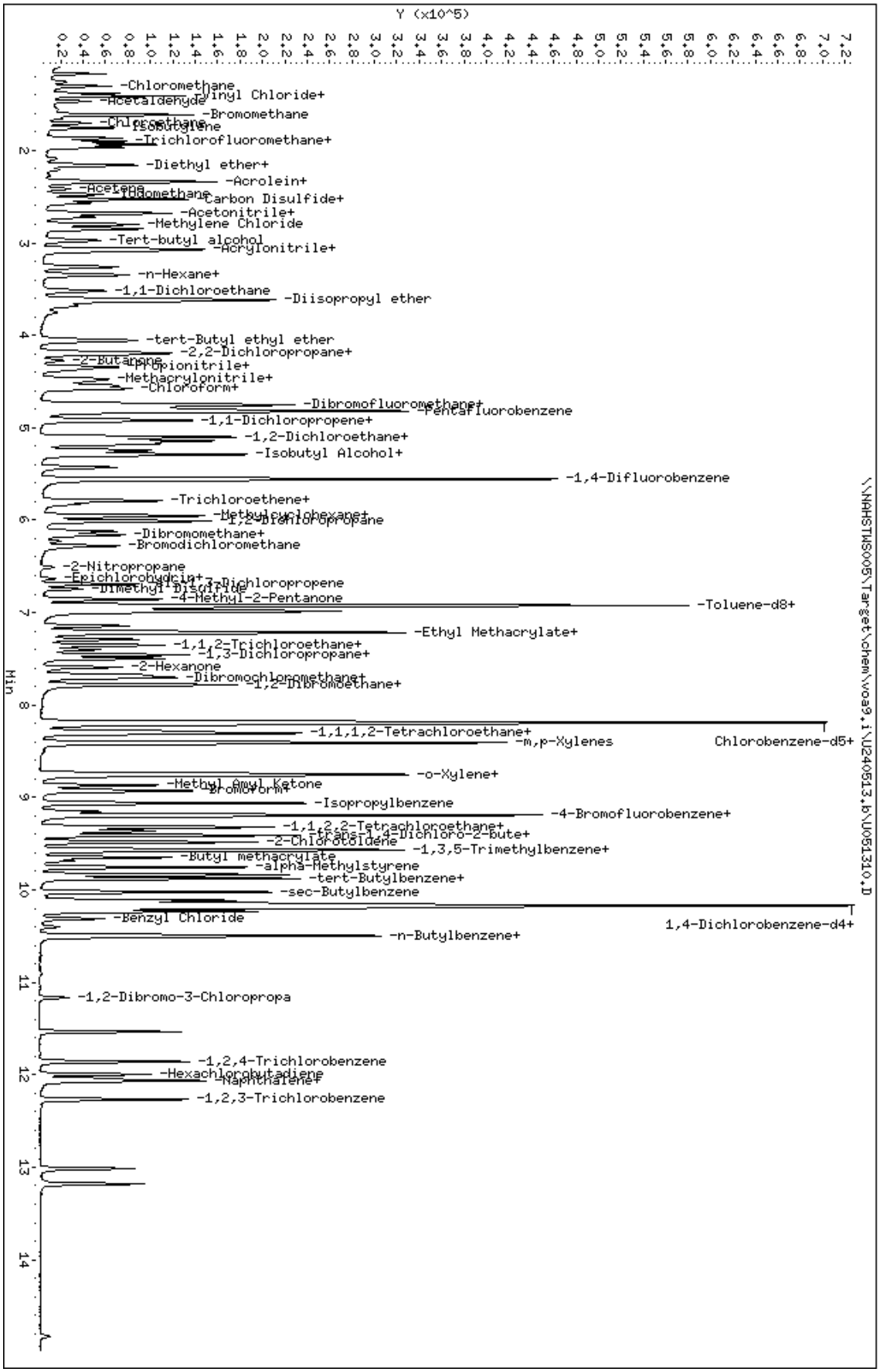
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	96586	22.3491	446.98
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	116868	23.1875	463.74
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	130686	22.9481	458.96
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	115675	23.3213	466.42
83	1,3-Dichlorobenzene	146	10.116	10.112	(0.995)	68402	20.3818	407.63
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	71747	20.9924	419.84
86	Benzyl Chloride	91	10.311	10.311	(1.260)	36758	21.0247	420.49
87	n-Butylbenzene	91	10.491	10.491	(1.032)	102246	22.4719	449.43
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	67974	20.7201	414.40
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	4881	18.4507	369.01
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	40465	20.3893	407.78
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	18342	21.4065	428.12
92	Naphthalene	128	12.065	12.065	(1.187)	100126	18.6986	373.97
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	40070	20.1139	402.27
146	Methyl acetate	43	2.720	2.705	(0.564)	50025	17.6860	353.72
138	Freon TF	101	2.345	2.330	(0.487)	29317	23.2595	465.18
141	Cyclohexane	56	4.785	4.782	(0.993)	53671	23.1514	463.02
142	Tetrahydrofuran	42	4.549	4.534	(0.944)	14119	35.6376	712.75
147	Methylcyclohexane	55	5.951	5.944	(1.072)	71376	16.1535	323.06
135	1,4-Dioxane	88	6.172	6.165	(1.281)	7719	294.078	5881.55
132	n-Butanol	56	5.827	5.816	(1.209)	17286	271.963	5439.25(a)
136	n-Hexane	57	3.349	3.338	(0.695)	38357	25.0450	500.90
139	Diethyl ether	59	2.154	2.139	(0.447)	24138	14.5216	290.43
148	Tert-butyl alcohol	59	2.975	2.956	(0.617)	56631	304.411	6088.21
149	Isopropyl alcohol	45	2.570	2.551	(0.533)	44319	283.472	5669.44
152	Amyl alcohol	42	7.398	7.394	(0.904)	19763	292.503	5850.06
156	Diisopropyl ether	45	3.627	3.612	(0.753)	102767	15.3365	306.73
162	Butyl acrylate	55	8.733	8.733	(1.067)	51611	14.8204	296.40
187	n-Amyl acetate	43	8.931	8.928	(1.091)	67160	20.0546	401.09
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	134270	15.3316	306.63
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	97364	14.8383	296.76
167	Ethanol	45	2.090	2.075	(0.434)	9277	316.041	6320.81
172	tert-Butyl formate	59	5.246	5.235	(1.089)	53082	31.3932	627.86
173	3,3-Dimethyl-1-butanol	57	7.780	7.777	(0.951)	62421	290.254	5805.07
174	tert-Amyl methyl ether	73	5.291	5.284	(1.098)	85371	15.9644	319.28
175	tert-Butyl ethyl ether	59	4.054	4.043	(0.841)	85188	15.6912	313.82
176	tert-Amyl alcohol	59	5.246	5.235	(1.089)	53082	326.527	6530.53
151	4-Methyl-2-pentanol	45	7.218	7.214	(1.300)	175964	299.366	5987.31
140	1,3-Butadiene	54	1.411	1.396	(0.293)	32657	21.2789	425.57
158	Dichlorofluoromethane	67	1.865	1.850	(0.387)	52670	15.6651	313.30
182	Epichlorohydrin	57	6.633	6.626	(1.194)	9984	65.4342	1308.68
M 94	1,2-Dichloroethylene (total)	96				64050	42.8764	857.52
M 95	Xylenes (total)	106				172611	68.2266	1364.53
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	52925	20.5994	411.98
130	Ethyl Acetate	43	4.347	4.335	(0.902)	37789	18.6930	373.85
131	Methyl Acrylate	55	4.377	4.365	(0.908)	36596	14.8387	296.77
189	n-Butyl acetate	43	7.705	7.702	(0.941)	56910	19.2816	385.63
134	Cyclohexanone	55	9.152	9.152	(0.900)	22719	270.304	5406.08(a)
185	Isoprene	39	2.165	2.150	(0.449)	8269	21.6795	433.59
188	Isopropyl acetate	43	5.287	5.280	(0.952)	98644	19.4880	389.75
150	Allyl alcohol	57	3.349	3.338	(0.695)	38357	500.900	10018.00
194	Acetaldehyde	44	1.468	1.456	(0.305)	39623	98.1734	1963.46

195 Methyl Amyl Ketone	43	8.867	8.868 (1.083)	60351	14.9409	298.81
200 Dimethyl Disulfide	94	6.746	6.742 (0.824)	14044	13.8146	276.29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
202 Isobutylene	41	1.756	1.745	(0.364)	16774	17.1790	343.57(M)
133 Ethyl Acrylate	55	5.951	5.944	(1.235)	71376	16.5046	330.09
163 Butyl methacrylate	41	9.647	9.647	(0.949)	36826	16.0856	321.71
159 Propylene oxide	43	2.210	2.195	(0.459)	5173	32.4747	649.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	26155	14.0867	281.73

QC Flag Legend

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



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

Page 1

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2-Chloroethylvinyl ether (110-75-8)

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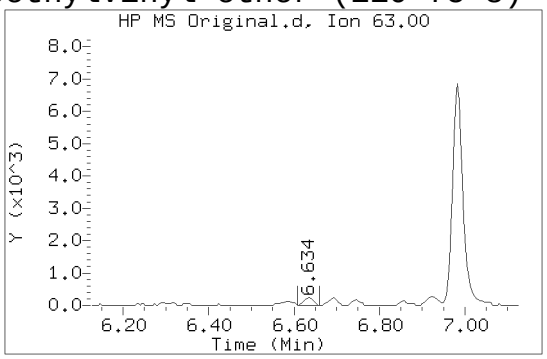

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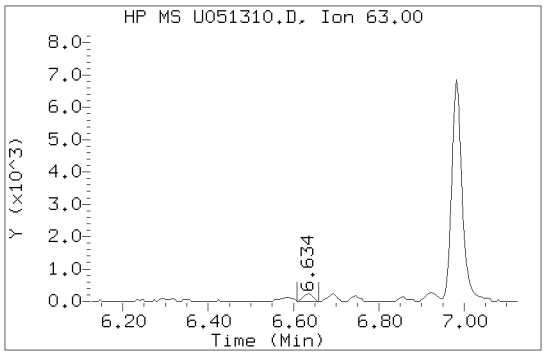

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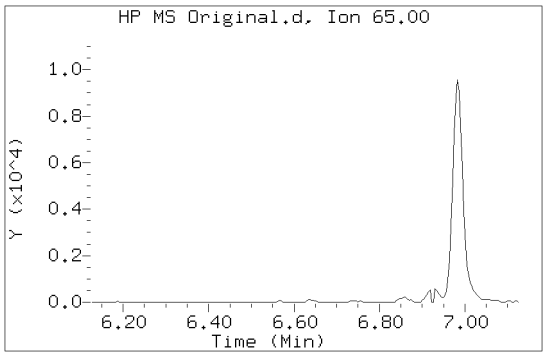

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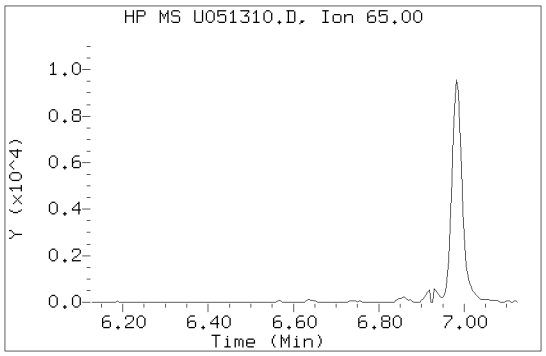

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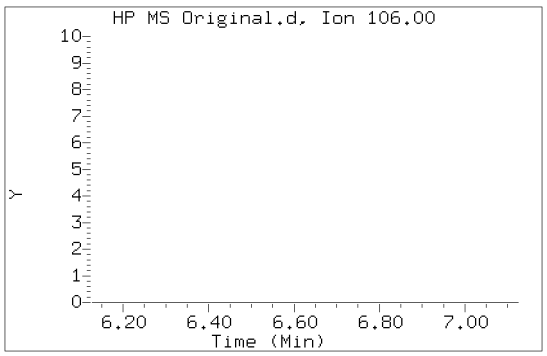

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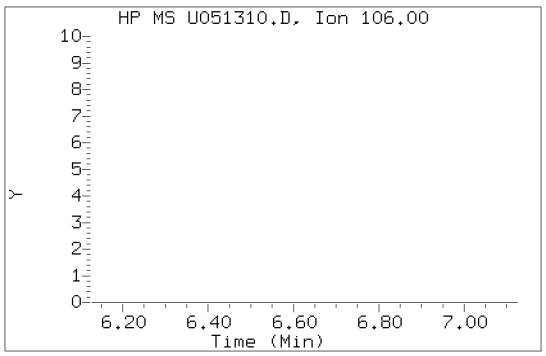

Chloroprene (126-99-8)

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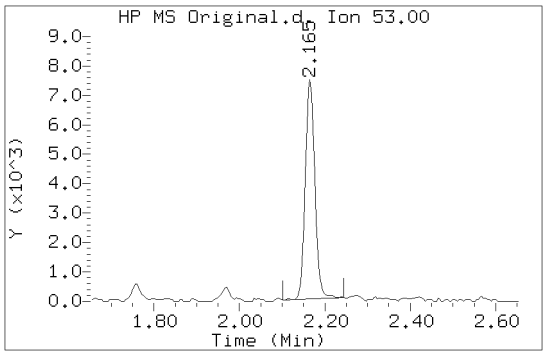

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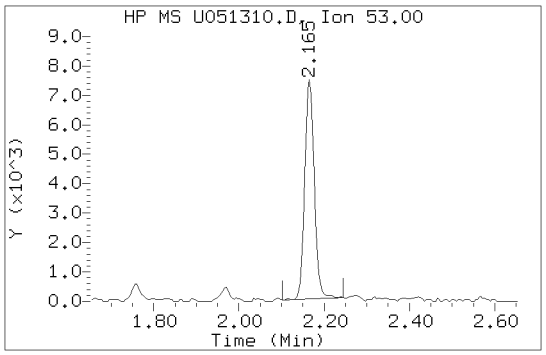

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Chloroprene (126-99-8)

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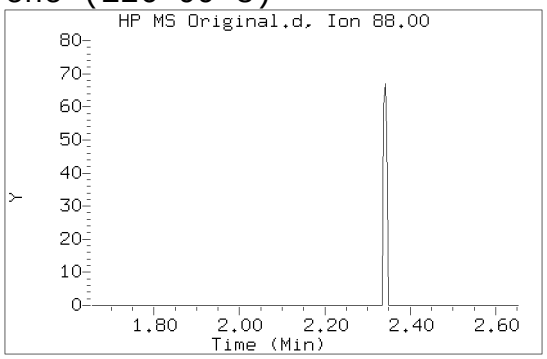

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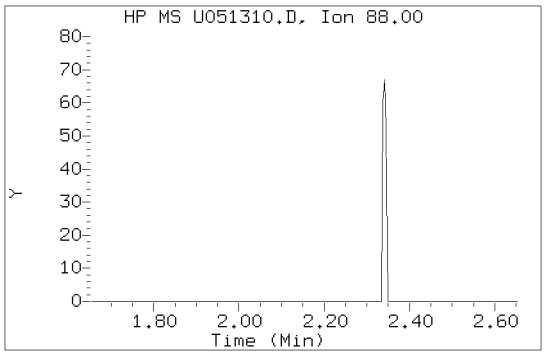

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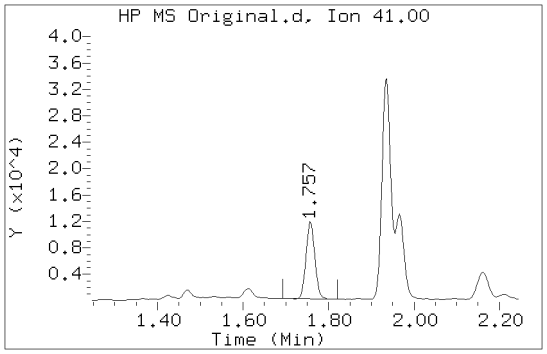

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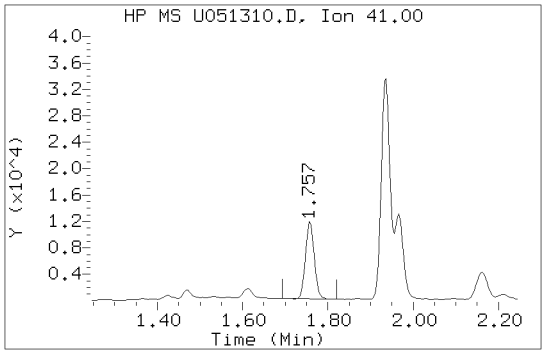

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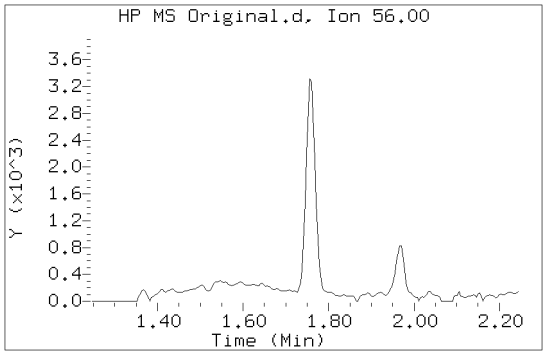

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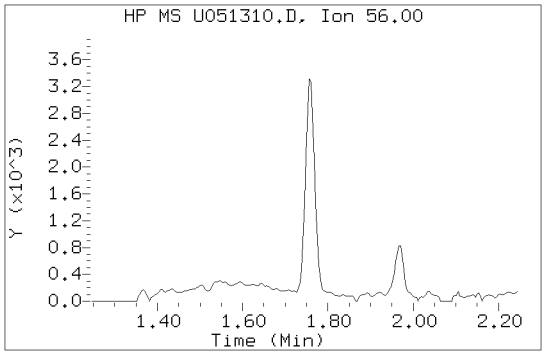

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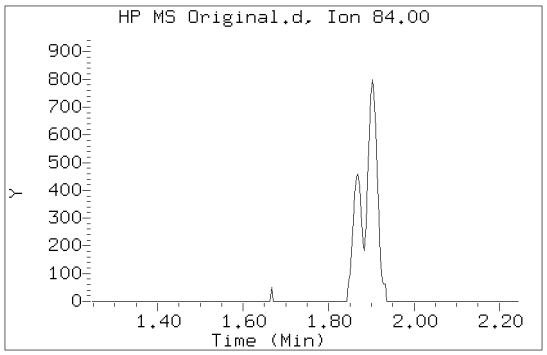

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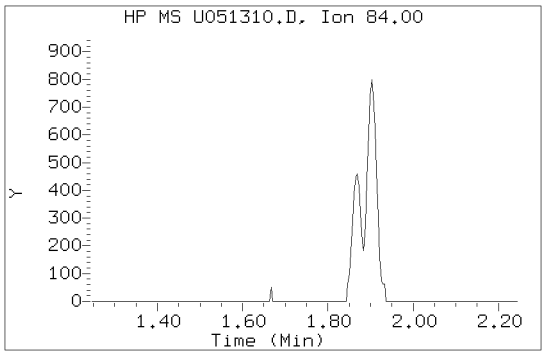

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Report Date: 24-May-2024 14:41

ALS Laboratory Group

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Inj Date : 13-MAY-2024 13:23
Operator : FT Inst ID: VOA9.i
Smp Info : HS24041892-02MSD;HS24041892-02MSD;3;;MSD
Misc Info : V9;WATER;0;20;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 24-May-2024 14:41 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 20.00000
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	20.000	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)	243895	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.157	(0.240)	27124	19.3368	386.73
3 Chloromethane	50	1.291	1.291	(0.268)	37434	19.2632	385.26
4 Propionitrile	54	4.335	4.328	(0.901)	49643	154.107	3082.13(a)
5 Vinyl Chloride	62	1.370	1.370	(0.285)	38236	19.8570	397.14
6 Bromomethane	94	1.606	1.603	(0.334)	20353	19.7144	394.28
7 Chloroethane	64	1.692	1.689	(0.352)	27099	20.3166	406.33
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	46537	20.6029	412.05
9 Acrolein	56	2.259	2.259	(0.469)	2963	28.8862	577.72
10 Acetone	43	2.401	2.401	(0.499)	22953	34.1338	682.67
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	25861	20.3422	406.84
12 Isobutyl Alcohol	43	5.284	5.280	(1.098)	101798	395.617	7912.34(a)
13 Acetonitrile	39	2.667	2.664	(0.554)	37842	156.489	3129.78(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	89924	14.5824	291.64(a)
15 Iodomethane	142	2.461	2.461	(0.512)	53616	37.2581	745.16
16 Acrylonitrile	53	3.061	3.057	(0.636)	25571	29.2767	585.53
17 Methylene Chloride	84	2.787	2.787	(0.579)	34604	19.2853	385.70
18 Methyl tert-butyl ether	73	3.076	3.072	(0.639)	80375	14.1298	282.59
19 Carbon Disulfide	76	2.513	2.514	(0.522)	152260	39.7140	794.28
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	29671	20.7292	414.58

21 Vinyl Acetate	43	4.339	4.335 (0.902)	39113	37.3166	746.33
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	56866	20.7695	415.39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	2.150	2.154	(0.447)	11963	21.1144	422.28(M)
24	2-Butanone	43	4.260	4.257	(0.885)	27979	36.3147	726.29
25	Methacrylonitrile	41	4.493	4.489	(0.934)	19281	14.5180	290.35(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	39759	23.2440	464.87
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	33118	20.1244	402.48
28	Chloroform	83	4.568	4.568	(0.949)	56424	20.1192	402.38
29	Bromochloromethane	128	4.463	4.463	(0.928)	15725	19.2335	384.66
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	93928	53.6510	53.65
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	43819	21.8479	436.95
32	1,1-Dichloropropene	75	4.916	4.920	(0.886)	42974	20.3929	407.85
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	45236	18.9704	379.40
34	Carbon Tetrachloride	117	4.905	4.909	(0.884)	35405	21.0527	421.05
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	116777	55.7343	55.73
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	366042	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	128442	19.5679	391.35
38	Trichloroethene	130	5.786	5.786	(1.043)	32662	20.8548	417.09
39	Bromodichloromethane	83	6.277	6.274	(1.131)	37891	20.3388	406.77
40	Methyl Methacrylate	41	5.824	5.816	(1.210)	13914	16.3629	327.25(a)
41	2-Chloroethylvinyl ether	63	6.630	6.626	(1.195)	376	26.6208	532.41(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	35048	20.5000	409.99
43	2-Nitropropane	43	6.506	6.506	(1.352)	7248	15.1769	303.53
44	Dibromomethane	93	6.116	6.116	(1.102)	20195	18.7507	375.01
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73163	38.8481	776.96
46	cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	45172	20.7386	414.77
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	333095	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.845)	371474	55.2629	55.26
49	Ethyl Methacrylate	69	7.214	7.214	(1.300)	36335	13.5621	271.24(a)
50	Toluene	91	6.978	6.978	(0.853)	139590	21.2210	424.42
51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	35527	20.2311	404.62
52	2-Hexanone	43	7.589	7.589	(0.927)	47950	37.3789	747.57
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	26289	19.2512	385.02
54	1,3-Dichloropropane	76	7.495	7.496	(0.916)	56774	19.7497	394.99
55	Dibromochloromethane	129	7.690	7.691	(0.940)	28219	18.9458	378.91
56	Tetrachloroethene	164	7.454	7.454	(0.911)	27167	22.1515	443.02
57	1,2-Dibromoethane	107	7.784	7.780	(0.951)	30234	19.7444	394.88
58	1-Chlorohexane	55	8.193	8.193	(1.476)	35197	22.7431	454.86
59	Chlorobenzene	112	8.208	8.208	(1.003)	89863	19.6549	393.09
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	28556	19.9201	398.40
61	Ethylbenzene	106	8.305	8.305	(1.015)	45876	21.2508	425.01
62	m,p-Xylenes	106	8.406	8.407	(1.027)	115979	44.4358	888.71
63	o-Xylene	106	8.744	8.744	(1.068)	56612	21.7161	434.32
64	Styrene	104	8.759	8.759	(1.070)	97845	22.2092	444.18
66	Bromoform	173	8.916	8.916	(1.089)	16474	18.2606	365.21
67	Isopropylbenzene	105	9.059	9.059	(1.107)	141744	22.6113	452.22
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45443	20.5128	410.25
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	137092	55.0793	55.07
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176512	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	42588	18.9440	378.87
72	trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9597	20.5881	411.76(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	167791	23.5973	471.94
74	Bromobenzene	156	9.317	9.314	(0.916)	37733	19.6956	393.91
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	116693	22.7043	454.08

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	101358	21.0705	421.40
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	118915	21.9610	439.21

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051311.D Page 3
Report Date: 24-May-2024 14:41

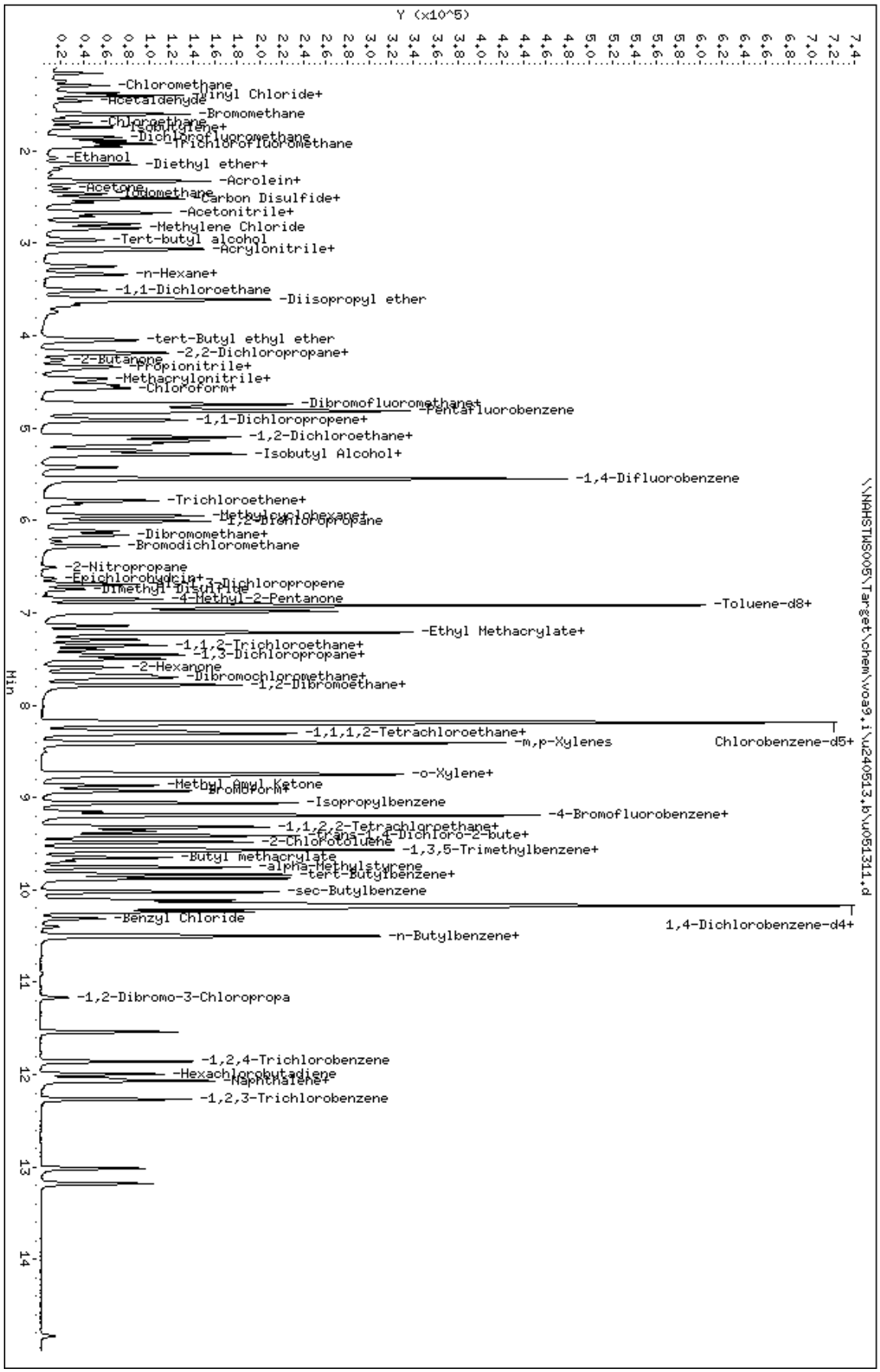
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	99094	22.9676	459.35
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	117478	23.3473	466.94
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	135630	23.8559	477.11
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	119939	24.2213	484.42
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	68706	20.5065	410.12
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	70985	20.8081	416.16
86	Benzyl Chloride	91	10.311	10.311	(1.260)	37382	20.9314	418.62
87	n-Butylbenzene	91	10.491	10.491	(1.032)	105293	23.1523	463.04
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	67131	20.5013	410.02
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	5142	19.3506	387.01
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	42972	21.6265	432.52
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	21125	24.6955	493.90
92	Naphthalene	128	12.065	12.065	(1.187)	105711	19.6499	392.99
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	41632	20.9328	418.65
146	Methyl acetate	43	2.708	2.705	(0.563)	49662	16.9881	339.76
138	Freon TF	101	2.330	2.330	(0.484)	28907	22.2758	445.51
141	Cyclohexane	56	4.778	4.782	(0.993)	53357	22.3466	446.93
142	Tetrahydrofuran	42	4.541	4.534	(0.944)	14763	36.2460	724.92
147	Methylcyclohexane	55	5.943	5.944	(1.071)	74766	16.5187	330.37
135	1,4-Dioxane	88	6.165	6.165	(1.281)	8144	301.723	6034.46
132	n-Butanol	56	5.824	5.816	(1.210)	18373	280.766	5615.32(a)
136	n-Hexane	57	3.338	3.338	(0.694)	37509	23.7924	475.84
139	Diethyl ether	59	2.139	2.139	(0.445)	23807	13.9113	278.22
148	Tert-butyl alcohol	59	2.963	2.956	(0.616)	59138	309.157	6183.13
149	Isopropyl alcohol	45	2.558	2.551	(0.532)	47780	298.344	5966.88
152	Amyl alcohol	42	7.398	7.394	(0.904)	20760	300.321	6006.41
156	Diisopropyl ether	45	3.616	3.612	(0.751)	102494	14.8567	297.13
162	Butyl acrylate	55	8.733	8.733	(1.067)	52595	14.7774	295.54
187	n-Amyl acetate	43	8.931	8.928	(1.091)	66836	19.5211	390.42
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	134190	15.3481	306.96
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	98621	15.0549	301.09
167	Ethanol	45	2.079	2.075	(0.432)	8895	291.508	5830.15
172	tert-Butyl formate	59	5.242	5.235	(1.090)	46149	26.5094	530.18
173	3,3-Dimethyl-1-butanol	57	7.780	7.777	(0.951)	63662	289.583	5791.66
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	83709	15.2042	304.08
175	tert-Butyl ethyl ether	59	4.047	4.043	(0.841)	86281	15.4363	308.72
176	tert-Amyl alcohol	59	5.242	5.235	(1.090)	46149	275.730	5514.59
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	180414	299.612	5992.23
140	1,3-Butadiene	54	1.396	1.396	(0.290)	32025	20.2680	405.35
158	Dichlorofluoromethane	67	1.854	1.850	(0.385)	51941	15.0047	300.09
182	Epichlorohydrin	57	6.630	6.626	(1.195)	9489	60.7125	1214.25
M 94	1,2-Dichloroethylene (total)	96				62789	40.8086	816.17
M 95	Xylenes (total)	106				172591	66.5980	1331.96
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	52500	20.4811	409.62
130	Ethyl Acetate	43	4.339	4.335	(0.902)	39113	18.7925	375.84
131	Methyl Acrylate	55	4.369	4.365	(0.908)	39101	15.4322	308.64
189	n-Butyl acetate	43	7.705	7.702	(0.941)	59706	19.7089	394.17
134	Cyclohexanone	55	9.152	9.152	(0.900)	23165	276.116	5522.31(a)
185	Isoprene	39	2.150	2.150	(0.447)	8416	21.4315	428.62
188	Isopropyl acetate	43	5.284	5.280	(0.952)	101798	19.6333	392.66
150	Allyl alcohol	57	3.338	3.338	(0.694)	37509	475.848	9516.95
194	Acetaldehyde	44	1.456	1.456	(0.303)	45319	110.288	2205.75

195 Methyl Amyl Ketone	43	8.867	8.868 (1.083)	62281	15.0589	301.17
200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14073	13.5831	271.66

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
202 Isobutylene	41	1.745	1.745	(0.363)	16386	16.2837	325.67(M)
133 Ethyl Acrylate	55	5.943	5.944	(1.235)	74766	16.7921	335.84
163 Butyl methacrylate	41	9.647	9.647	(0.949)	38247	16.7341	334.68
159 Propylene oxide	43	2.195	2.195	(0.456)	4675	28.5058	570.11
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	28180	15.0472	300.94

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: HS24041892-02MSD;HS24041892-02MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

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

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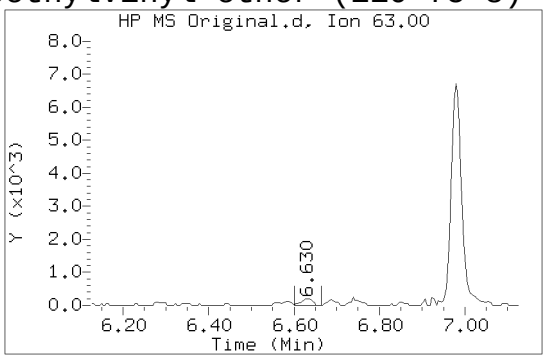
Inj Date : 13-MAY-2024 13:23
InstruID : VOA9.i
LabSampID : HS24041892-02MSD

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
63
AREA
376
HEIGHT
202
24-May-2024
14:41
rucha
patel



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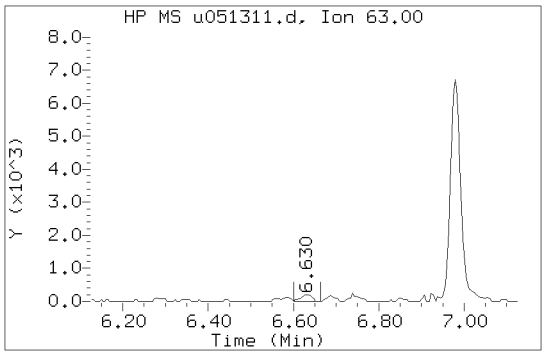

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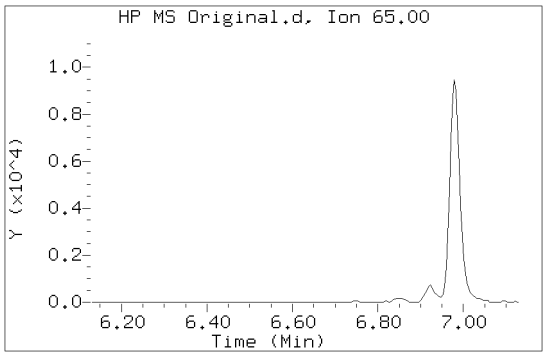

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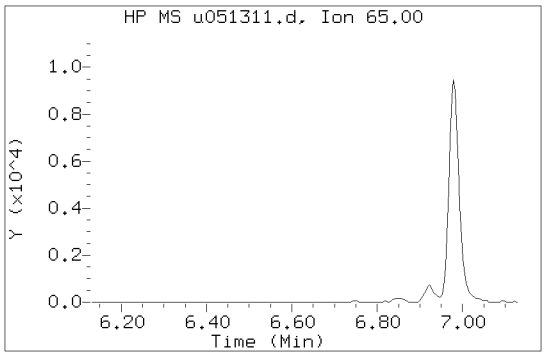

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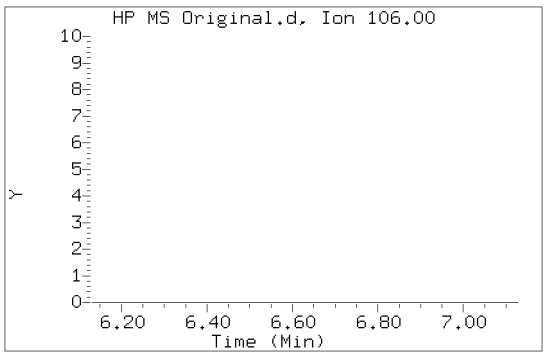

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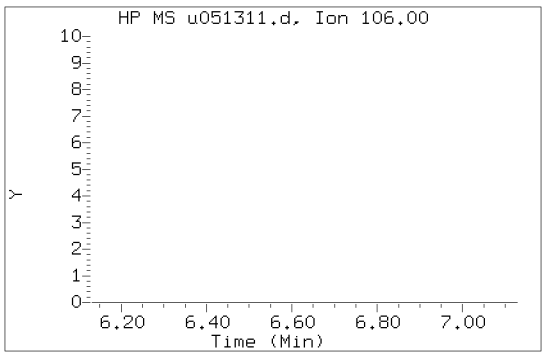

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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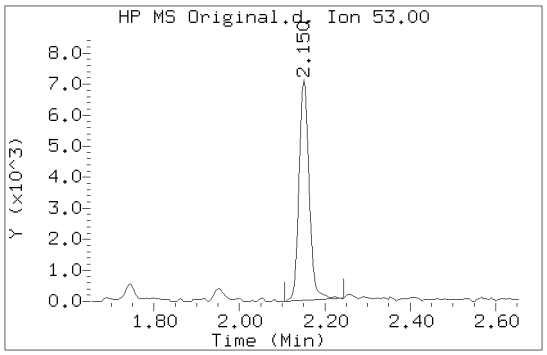
AREA
11963
HEIGHT
7109
24-May-2024
14:41
rucha
patel



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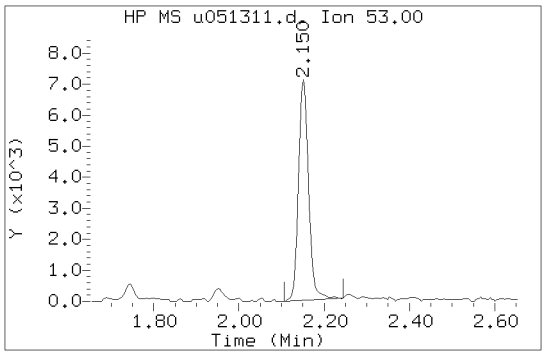
patel



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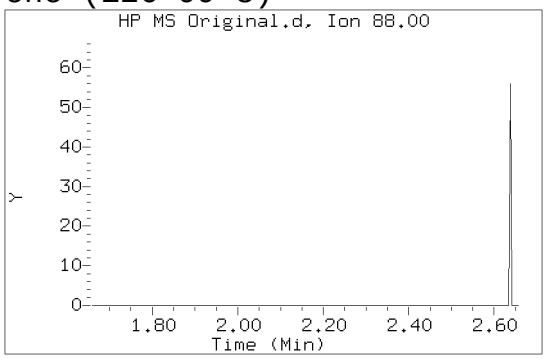
InstruID : VOA9.i
LabSampID : HS24041892-02MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
88
AREA
0
HEIGHT
0
24-May-2024
14:41
rucha
patel



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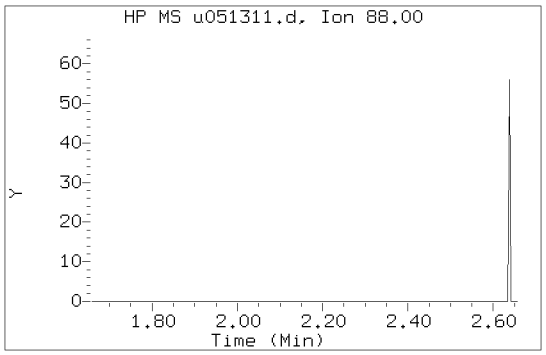
rucha
patel

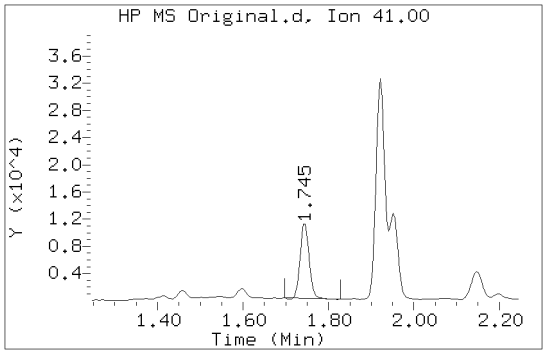


Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
16386
HEIGHT
10918
24-May-2024
14:41
rucha
patel



AFTER

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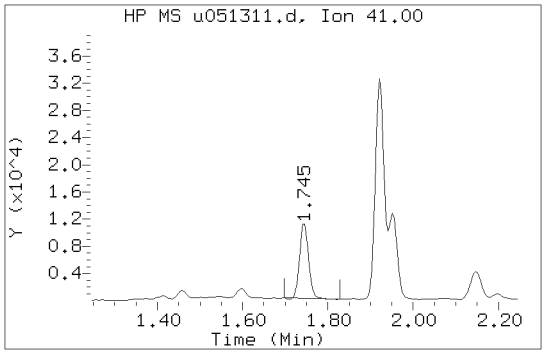
AREA
16386
HEIGHT
10918
24-May-2024
14:41
rucha
patel



BEFORE

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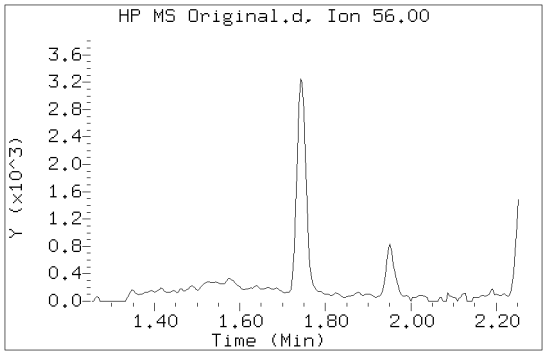

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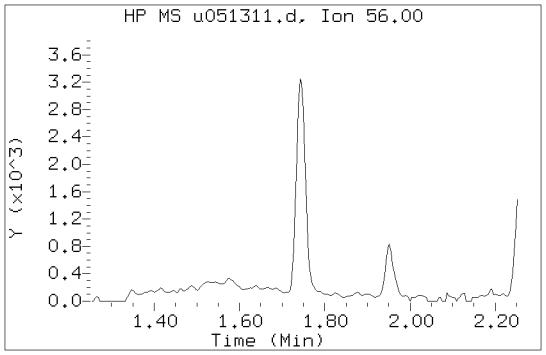

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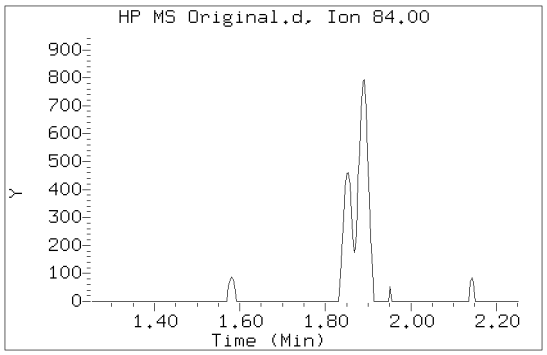

AFTER

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24-May-2024
14:41
rucha
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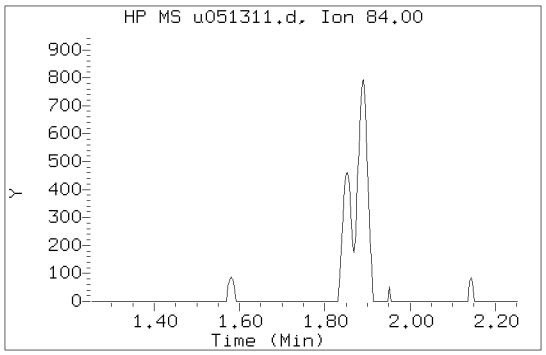


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051322.D Page 1
Report Date: 17-Jun-2024 14:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051322.D
Lab Smp Id: HS24050531-03
Inj Date : 13-MAY-2024 17:56
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050531-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 17-Jun-2024 14:34 r.patel   Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26   Cal File: U050703.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

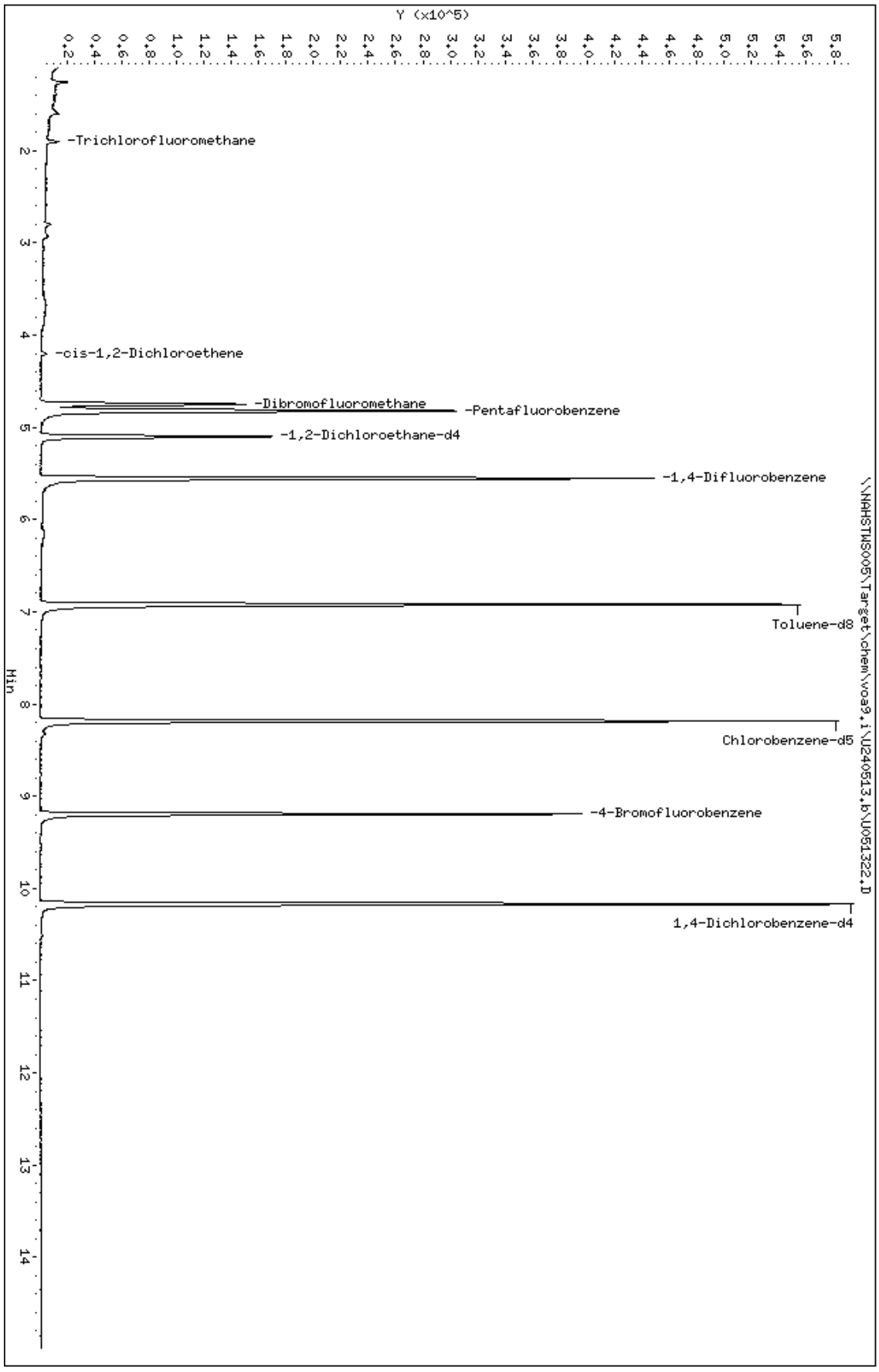
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.819	4.819	(1.000)	228407	50.0000	
	8 Trichlorofluoromethane	101	1.899	1.902	(0.394)	5592	2.52586	2.52
	27 cis-1,2-Dichloroethene	96	4.204	4.200	(0.872)	1889	1.11780	1.11
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	87984	53.6641	53.66
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	111477	56.8744	56.87
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	347825	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	313761	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	348341	55.0069	55.00
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	122944	52.3496	52.34
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	155234	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1889	0.82517	0.82(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051322.D
Date : 13-MAY-2024 17:56
Client ID:
Sample Info: HS24050531-03
Purge Volume: 5.0
Column phase: DB624

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

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051322.D Page 2

Date : 13-MAY-2024 17:56

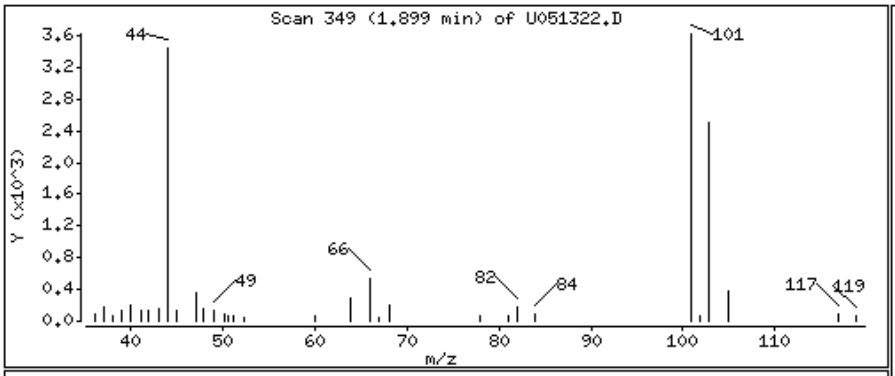
Client ID: Instrument: VOA9.i

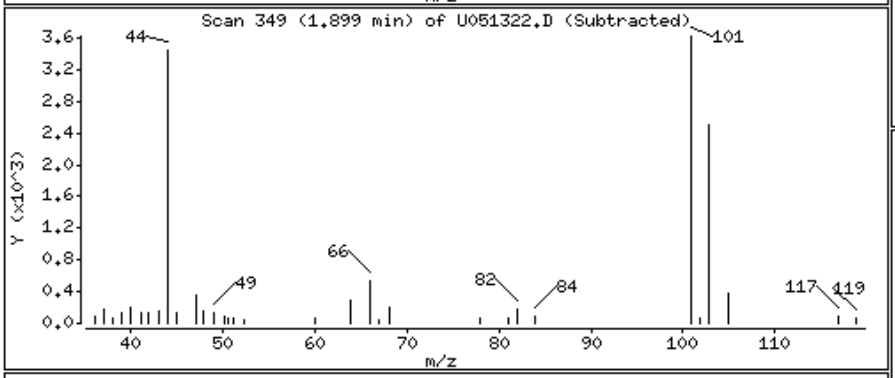
Sample Info: HS24050531-03

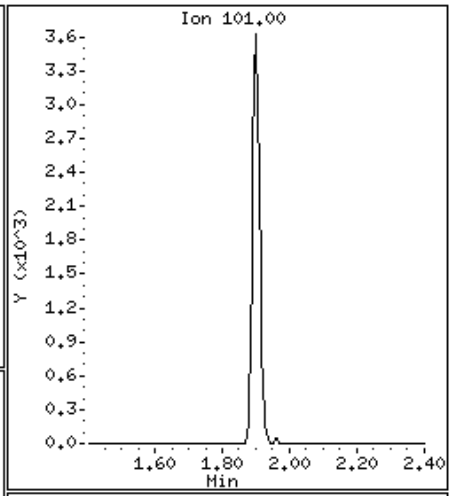
Purge Volume: 5.0 Operator: FT

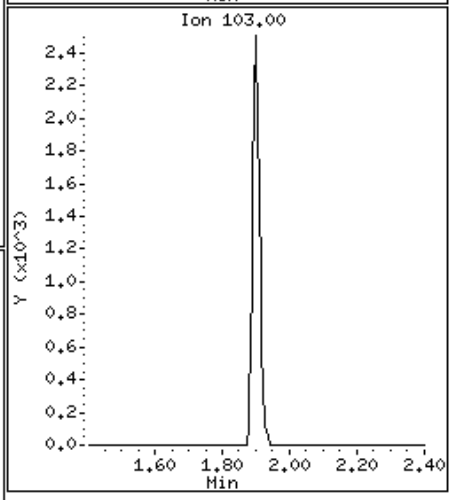
Column phase: DB624 Column diameter: 0.18

8 Trichlorofluoromethane Concentration: 2.52 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051322.D Page 3

Date : 13-MAY-2024 17:56

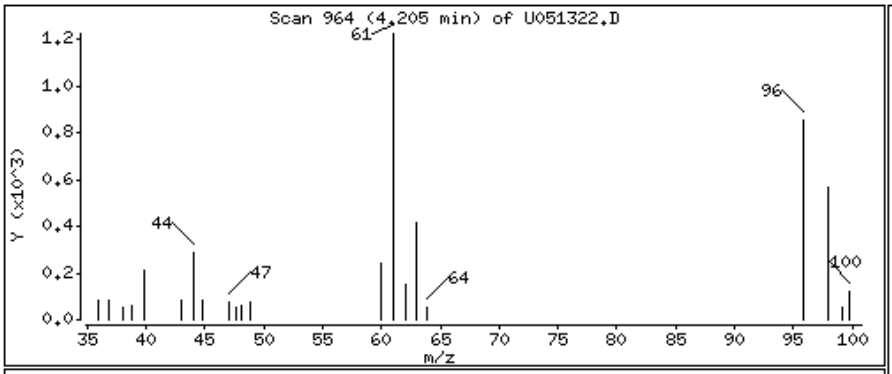
Client ID: Instrument: VOA9.i

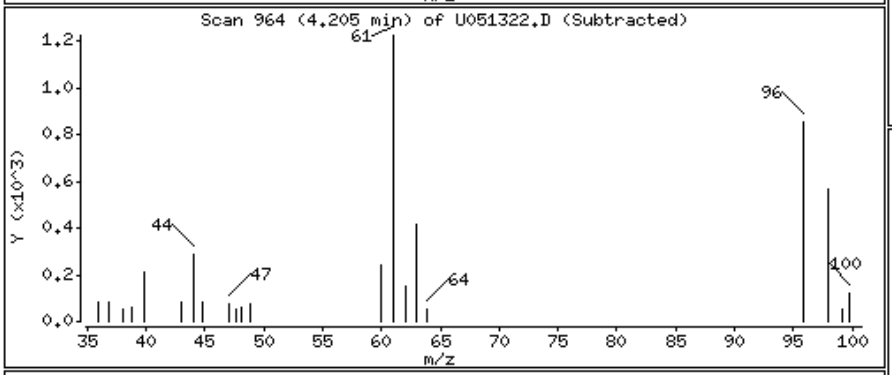
Sample Info: HS24050531-03

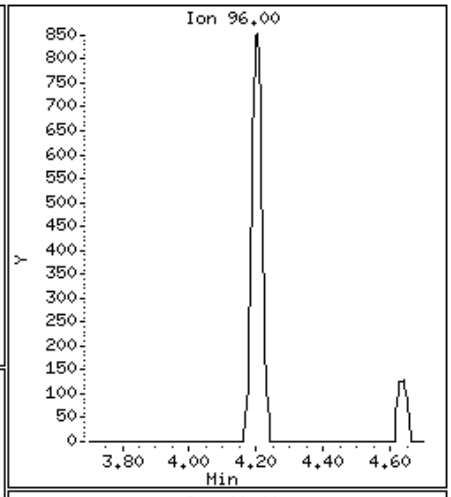
Purge Volume: 5.0 Operator: FT

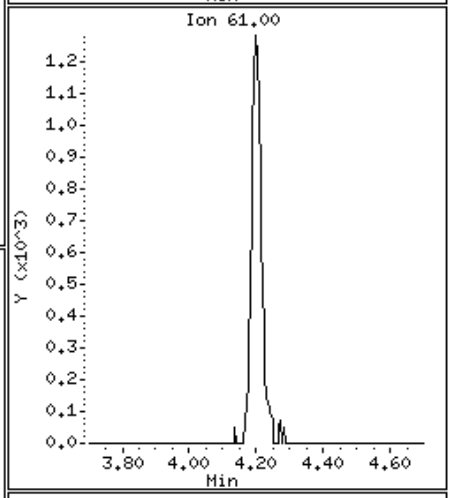
Column phase: DB624 Column diameter: 0.18

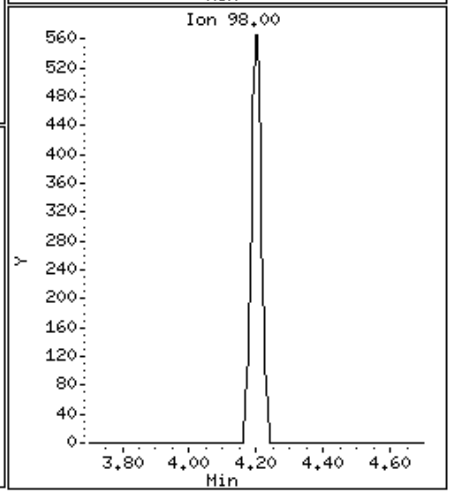
27 cis-1,2-Dichloroethene Concentration: 1.11 ug/l











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Inj Date : 13-MAY-2024 17:56
InstruID : VOA9.i
LabSampID : HS24050531-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051326.D Page 1
Report Date: 17-Jun-2024 14:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051326.D
Lab Smp Id: HS24050531-01
Inj Date : 13-MAY-2024 19:23
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24050531-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240513.b\8260C.m
Meth Date : 17-Jun-2024 14:34 r.patel   Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26   Cal File: U050703.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

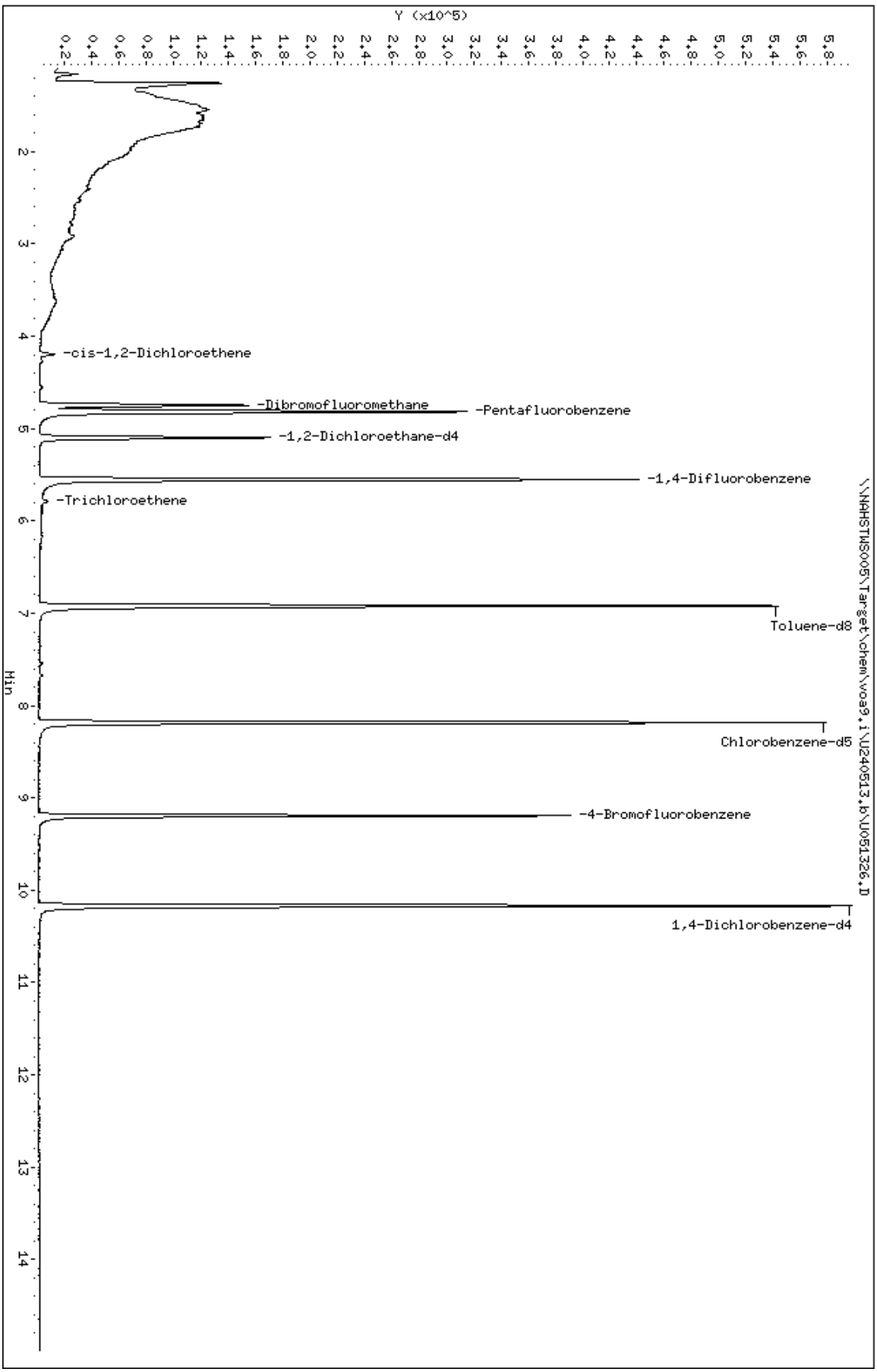
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	229999	50.0000	
	27 cis-1,2-Dichloroethene	96	4.197	4.200	(0.872)	4940	3.09092	3.09
$	30 Dibromofluoromethane	113	4.748	4.751	(0.986)	88030	53.3067	53.30
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	111339	56.3847	56.38
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	344867	50.0000	
	38 Trichloroethene	130	5.790	5.790	(1.043)	1297	0.71878	0.71(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	314166	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	343479	54.1426	54.14
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	120830	51.3488	51.34
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	155422	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4940	2.95145	2.95(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\NAHSTWS005\Target\chem\voa9,i\U240513,b\U051326.D
Date : 13-MAY-2024 19:23
Client ID:
Sample Info: HS2405031-01
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
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9,i\U240513,b\U051326.D
Min

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051326.D Page 2

Date : 13-MAY-2024 19:23

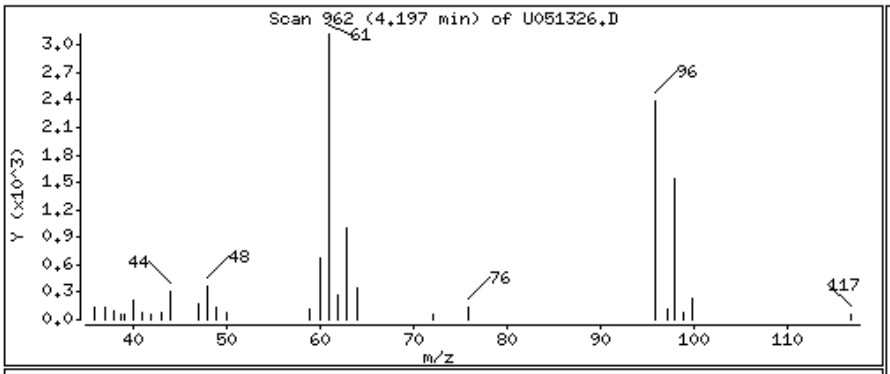
Client ID: Instrument: VOA9.i

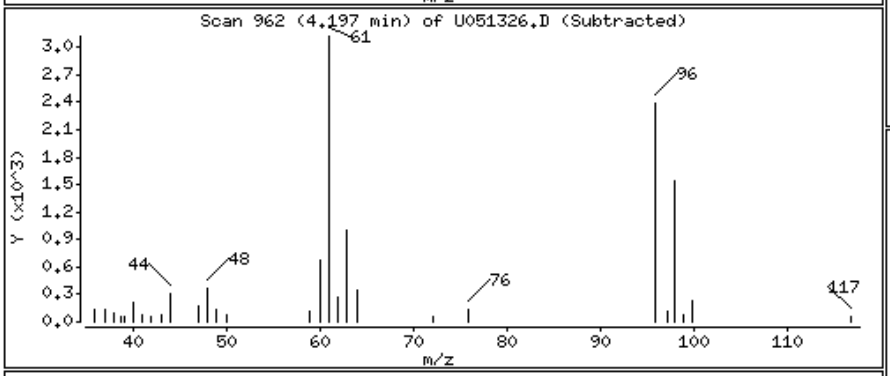
Sample Info: HS24050531-01

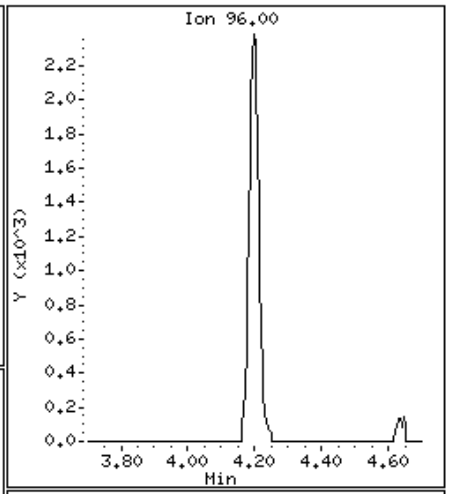
Purge Volume: 5.0 Operator: FT

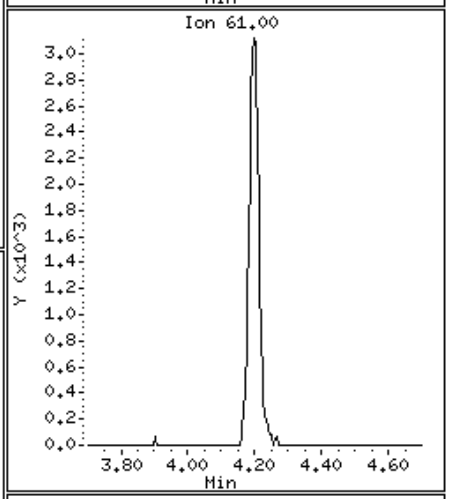
Column phase: DB624 Column diameter: 0.18

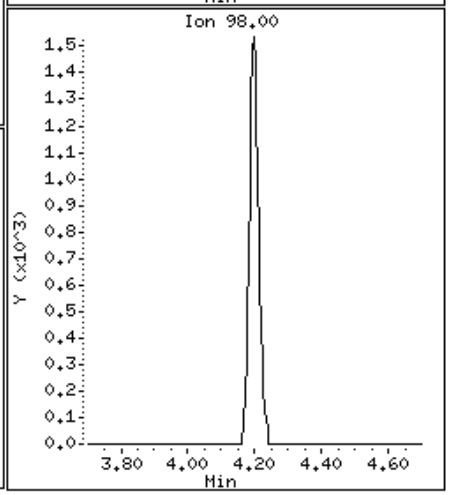
27 cis-1,2-Dichloroethene Concentration: 3.09 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051326.D

Date : 13-MAY-2024 19:23

Client ID:

Instrument: VOA9.i

Sample Info: HS24050531-01

Purge Volume: 5.0

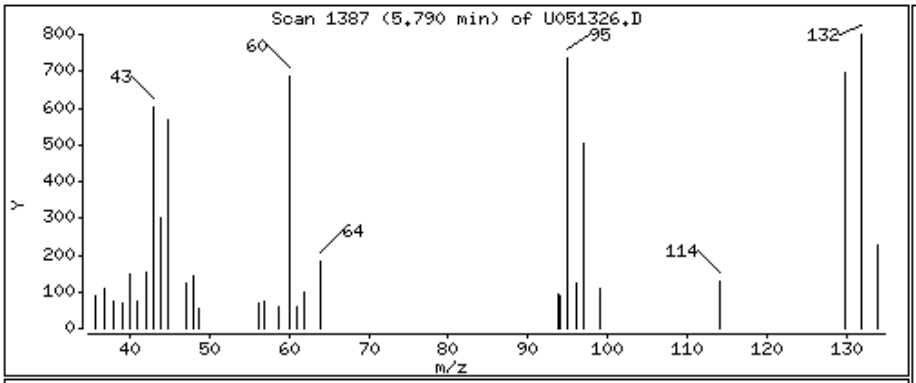
Operator: FT

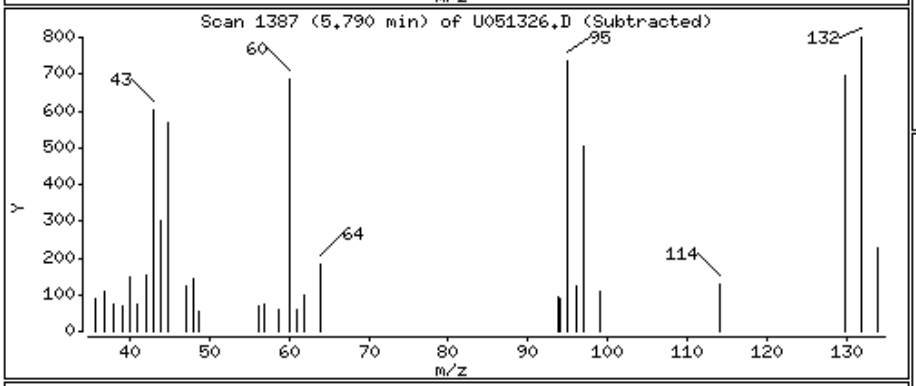
Column phase: DB624

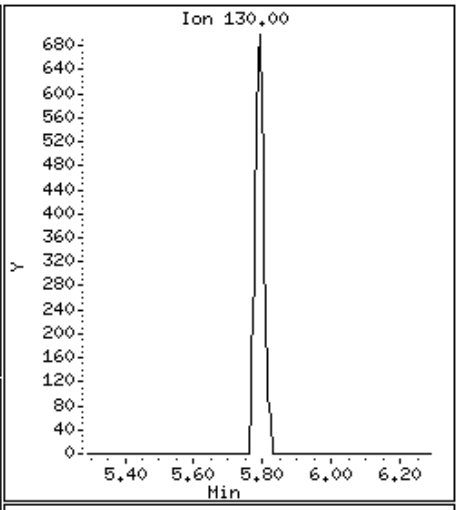
Column diameter: 0.18

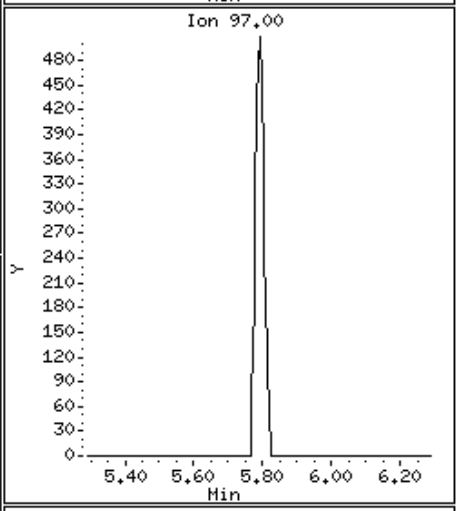
38 Trichloroethene

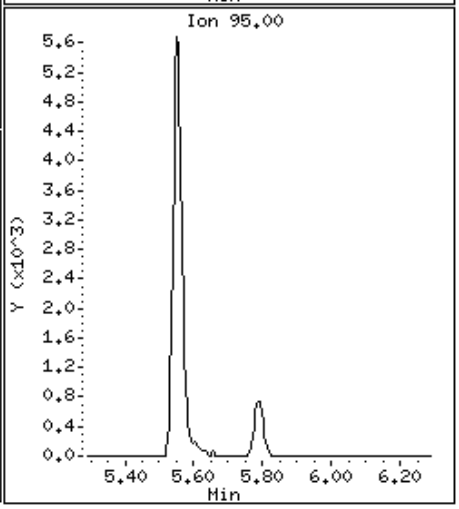
Concentration: 0.71 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051326.D
Inj Date : 13-MAY-2024 19:23
InstruID : VOA9.i
LabSampID : HS24050531-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051330.D Page 1
Report Date: 19-Jun-2024 10:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051330.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 13-MAY-2024 20:49
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\U240513.b\8260C.m
Meth Date : 19-Jun-2024 10:55 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.D
Als bottle: 28 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)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	239723	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	59917	50.0000	42.97
3 Chloromethane	50	1.303	1.303	(0.270)	78621	50.0000	42.00
4 Propionitrile	54	4.339	4.339	(0.900)	119040	500.000	398.51
5 Vinyl Chloride	62	1.381	1.381	(0.287)	80852	50.0000	42.63
6 Bromomethane	94	1.618	1.618	(0.336)	36513	50.0000	36.58
7 Chloroethane	64	1.704	1.704	(0.354)	59698	50.0000	46.22
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	106444	50.0000	47.89
9 Acrolein	56	2.270	2.270	(0.471)	6256	100.000	69.39
10 Acetone	43	2.412	2.412	(0.501)	46278	100.000	75.14
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	59399	50.0000	47.58
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	226883	1000.00	897.08
13 Acetonitrile	39	2.678	2.678	(0.556)	101751	500.000	428.09
14 Allyl Chloride	41	2.678	2.678	(0.556)	235706	50.0000	38.88
15 Iodomethane	142	2.472	2.472	(0.513)	107326	100.000	72.46
16 Acrylonitrile	53	3.068	3.068	(0.637)	64575	100.000	82.13
17 Methylene Chloride	84	2.798	2.798	(0.581)	76701	50.0000	47.09
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	212563	50.0000	38.01
19 Carbon Disulfide	76	2.525	2.525	(0.524)	348417	100.000	92.45
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	68848	50.0000	49.18

21 Vinyl Acetate	43	4.343	4.343 (0.901)	83819	100.000	81.36
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	131878	50.0000	49.38

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.268	4.268	(0.886)	61993	100.000	81.86
	25	Methacrylonitrile	41	4.497	4.497	(0.933)	88794	50.0000	68.02(a)
	26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	88390	50.0000	51.30
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	79272	50.0000	48.98
	28	Chloroform	83	4.575	4.575	(0.949)	133683	50.0000	48.49
	29	Bromochloromethane	128	4.470	4.470	(0.928)	38666	50.0000	49.25
$	30	Dibromofluoromethane	113	4.751	4.751	(0.986)	92403	50.0000	53.70
	31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	101869	50.0000	51.67
	32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	95662	50.0000	47.13
	33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	105640	50.0000	46.00
	34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	82524	50.0000	49.66
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	109524	50.0000	53.03
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	352505	50.0000	
	37	Benzene	78	5.141	5.141	(0.926)	298391	50.0000	47.20
	38	Trichloroethene	130	5.790	5.790	(1.043)	75146	50.0000	49.60
	39	Bromodichloromethane	83	6.277	6.277	(1.130)	93719	50.0000	52.23
	40	Methyl Methacrylate	41	5.820	5.820	(1.208)	31196	50.0000	37.32
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	82932	50.0000	50.15
	43	2-Nitropropane	43	6.506	6.506	(1.350)	18294	50.0000	38.97
	44	Dibromomethane	93	6.120	6.120	(1.102)	48542	50.0000	46.80
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	167936	100.000	92.52
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	110222	50.0000	50.00
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	321021	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	357432	50.0000	55.17
	49	Ethyl Methacrylate	69	7.214	7.214	(1.299)	89590	50.0000	34.72
	50	Toluene	91	6.982	6.982	(0.853)	321266	50.0000	50.67
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	91132	50.0000	50.58
	52	2-Hexanone	43	7.589	7.589	(0.927)	107738	100.000	82.42
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	63345	50.0000	48.13
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	133894	50.0000	48.32
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	72935	50.0000	46.67
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	60345	50.0000	50.69
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	71502	50.0000	48.45
	58	1-Chlorohexane	55	8.196	8.196	(1.476)	73902	50.0000	50.83
	59	Chlorobenzene	112	8.208	8.208	(1.003)	209729	50.0000	47.59
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	71974	50.0000	48.94
	61	Ethylbenzene	106	8.305	8.305	(1.015)	104787	50.0000	50.36
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	268761	100.000	106.84
	63	o-Xylene	106	8.744	8.744	(1.068)	133644	50.0000	53.19
	64	Styrene	104	8.759	8.759	(1.070)	233061	50.0000	54.89
	66	Bromoform	173	8.916	8.916	(1.089)	44986	50.0000	47.71
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	329262	50.0000	54.50
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	105324	50.0000	48.02
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	133878	50.0000	55.83
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	172748	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	102172	50.0000	46.43
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	21257	50.0000	45.47
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	388967	50.0000	55.89
	74	Bromobenzene	156	9.317	9.317	(0.916)	90751	50.0000	48.40
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	275696	50.0000	54.80
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	239227	50.0000	50.81
	77	4-Chlorotoluene	91	9.572	9.572	(0.941)	274392	50.0000	51.77

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	227591	50.0000	53.89
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	274016	50.0000	55.64

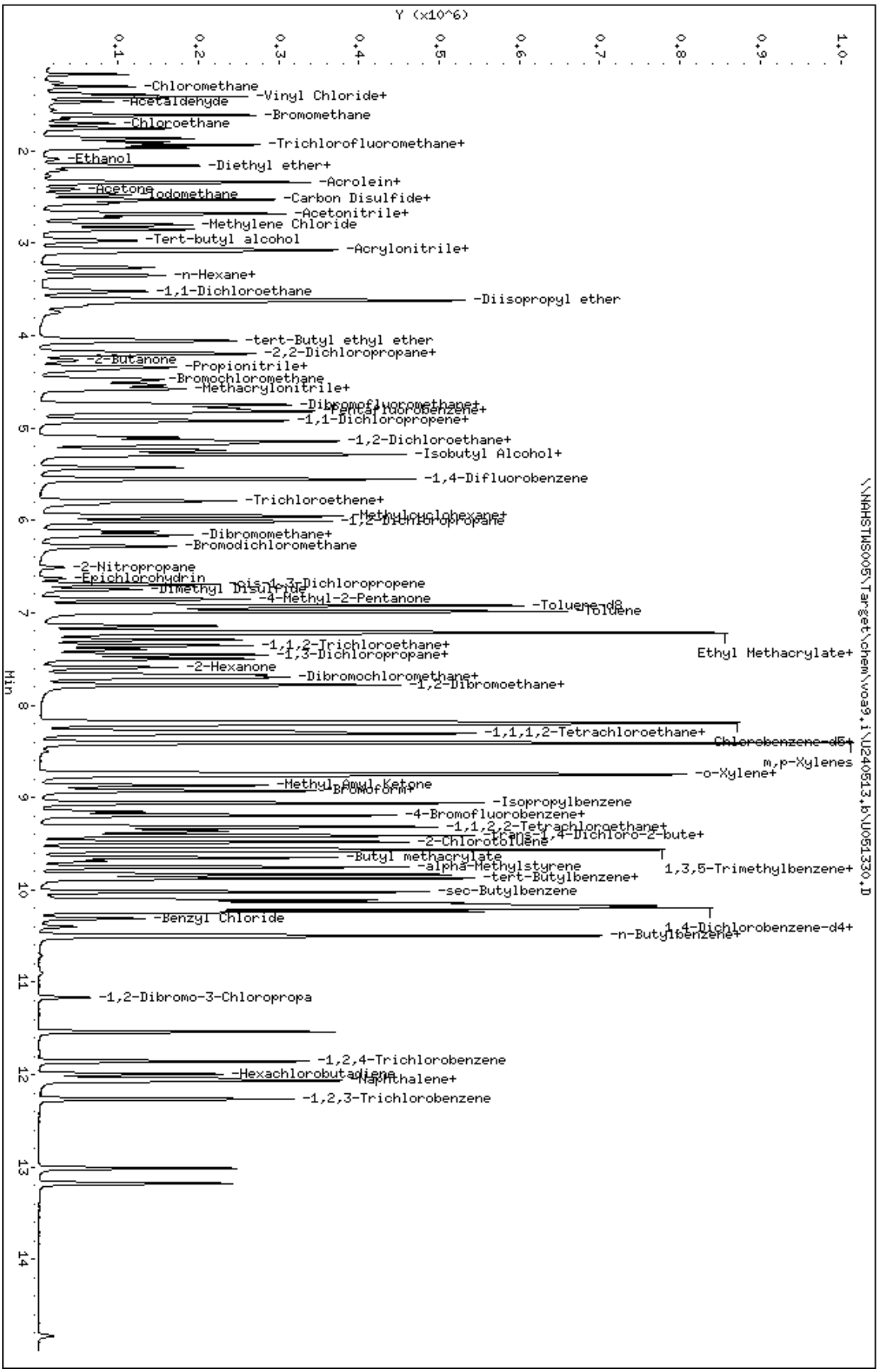
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	302877	50.0000	54.43	
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	269797	50.0000	55.67	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	158717	50.0000	48.40	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	167316	50.0000	49.48	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	82455	50.0000	42.93	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	229387	50.0000	50.08	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	162369	50.0000	50.10	
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12299	50.0000	43.67	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	100707	50.0000	49.92	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	42299	50.0000	50.52	
92	Naphthalene	128	12.065	12.065	(1.187)	254667	50.0000	45.20	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	96670	50.0000	49.66	
146	Methyl acetate	43	2.716	2.716	(0.564)	108191	50.0000	39.88	
138	Freon TF	101	2.341	2.341	(0.486)	63241	50.0000	49.58	
141	Cyclohexane	56	4.785	4.785	(0.993)	110803	50.0000	47.49	
142	Tetrahydrofuran	42	4.542	4.542	(0.942)	30465	100.000	79.81	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	197014	50.0000	45.19	
135	1,4-Dioxane	88	6.168	6.168	(1.280)	16967	1000.00	655.88	
132	n-Butanol	56	5.820	5.820	(1.208)	40975	1000.00	637.05	
136	n-Hexane	57	3.346	3.346	(0.694)	77493	50.0000	49.67	
139	Diethyl ether	59	2.150	2.150	(0.446)	64547	50.0000	38.37	
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	129648	1000.00	723.65	
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	107234	1000.00	722.30	
152	Amyl alcohol	42	7.394	7.394	(0.903)	49363	1000.00	723.75	
156	Diisopropyl ether	45	3.623	3.623	(0.752)	285377	50.0000	42.08	
162	Butyl acrylate	55	8.733	8.733	(1.067)	150180	50.0000	40.18	
187	n-Amyl acetate	43	8.927	8.927	(1.091)	148744	50.0000	45.07	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	361084	50.0000	42.33	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	282818	50.0000	44.11	
167	Ethanol	45	2.090	2.090	(0.434)	20000	1000.00	719.70	
172	tert-Butyl formate	59	5.239	5.239	(1.087)	102220	100.000	59.74	
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	152841	1000.00	698.42	
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	226821	50.0000	41.91	
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	233695	50.0000	42.53	
176	tert-Amyl alcohol	59	5.239	5.239	(1.087)	102220	1000.00	621.36	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	451135	1000.00	722.36	
140	1,3-Butadiene	54	1.411	1.411	(0.293)	71132	50.0000	45.80	
158	Dichlorofluoromethane	67	1.865	1.865	(0.387)	145609	50.0000	42.79	
182	Epichlorohydrin	57	6.630	6.630	(1.194)	22136	200.000	147.06	
M 94	1,2-Dichloroethylene (total)	96				148120	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	125934	50.0000	47.22	
130	Ethyl Acetate	43	4.343	4.343	(0.901)	83819	50.0000	40.97	
131	Methyl Acrylate	55	4.373	4.373	(0.907)	97282	50.0000	40.39	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	137510	50.0000	42.99	
134	Cyclohexanone	55	9.152	9.152	(0.900)	52875	1000.00	646.87	
185	Isoprene	39	2.165	2.165	(0.449)	19138	50.0000	49.58	
188	Isopropyl acetate	43	5.284	5.284	(0.951)	226883	50.0000	45.43	
150	Allyl alcohol	57	3.346	3.346	(0.694)	77493	1000.00	993.44	
194	Acetaldehyde	44	1.468	1.468	(0.305)	68109	200.000	174.47	
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	162043	50.0000	36.59	
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	46546	50.0000	39.98	
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	197014	50.0000	45.01	

163	Butyl methacrylate	41	9.647	9.647 (0.949)	96376	50.0000	43.08
159	Propylene oxide	43	2.206	2.206 (0.458)	10762	100.000	66.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	85194	50.0000	41.78

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\woa9,i\U240513,b\U051330,D
Date : 13-MAY-2024 20:49
Client ID: WSTD050
Sample Info: WSTD050;WSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240513.b\U051330.D
Inj Date : 13-MAY-2024 20:49
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

Volatiles by EPA 8260C

Workorder

HS24050531

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/28/2024

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\U240507.b\U050701.D Page 1
Report Date: 07-May-2024 13:04

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240507.b\U050701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-MAY-2024 11:43
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\U240507.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)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180 (0.000)		95	81016			0.00- 100.00	100.00
9.194	9.180 (0.000)		50	15330			15.00- 40.00	18.92
9.194	9.180 (0.000)		75	39368			30.00- 60.00	48.59
9.194	9.180 (0.000)		96	5306			5.00- 9.00	6.55
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	71576			50.00- 0.00	88.35
9.194	9.180 (0.000)		175	5738			5.00- 9.00	8.02
9.194	9.180 (0.000)		176	68640			95.00- 101.00	95.90
9.194	9.180 (0.000)		177	4296			5.00- 9.00	6.26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.92
75	30.00 - 60.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.35
175	5.00 - 9.00% of mass 174	7.08 (8.02)
176	95.00 - 101.00% of mass 174	84.72 (95.90)
177	5.00 - 9.00% of mass 176	5.30 (6.26)

Data File: U050701.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.20	96	61.00	3807	92.00	2225	140.90	790
36.00	882	62.00	3803	93.00	3461	141.70	72
37.00	4130	63.00	2884	94.00	10142	142.80	985
38.00	3767	64.00	368	95.00	81016	144.90	106
39.00	1441	65.10	278	96.00	5306	145.80	158
40.00	219	67.00	296	97.00	151	147.00	66
41.10	82	68.00	8355	103.90	432	147.80	223
41.90	65	69.00	8554	104.90	114	148.90	62
43.00	125	70.00	715	105.90	318	149.90	115
44.00	652	71.20	79	106.80	86	153.00	57
45.00	717	72.10	486	110.00	57	154.10	67
45.90	134	73.00	3721	110.70	77	154.90	204
47.00	1176	74.00	13458	111.80	59	156.90	104
48.00	588	75.00	39368	112.70	70	159.00	87
49.00	3483	76.00	3402	114.90	82	160.80	101
50.00	15330	77.00	476	115.90	261	170.10	66
51.00	4844	78.00	387	116.80	514	172.00	479
52.00	253	78.90	2316	117.90	262	173.90	71576
52.80	94	80.00	727	118.90	393	175.00	5738
55.00	227	80.90	2268	127.80	290	175.90	68640
56.00	1279	81.90	567	128.90	200	176.90	4296
57.00	2156	83.00	93	129.80	312	177.90	127
58.00	136	87.00	3771	130.90	154		
58.80	54	87.90	3485	134.80	152		
60.00	776	90.90	311	136.90	124		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240507.b\u050701.d Page 1

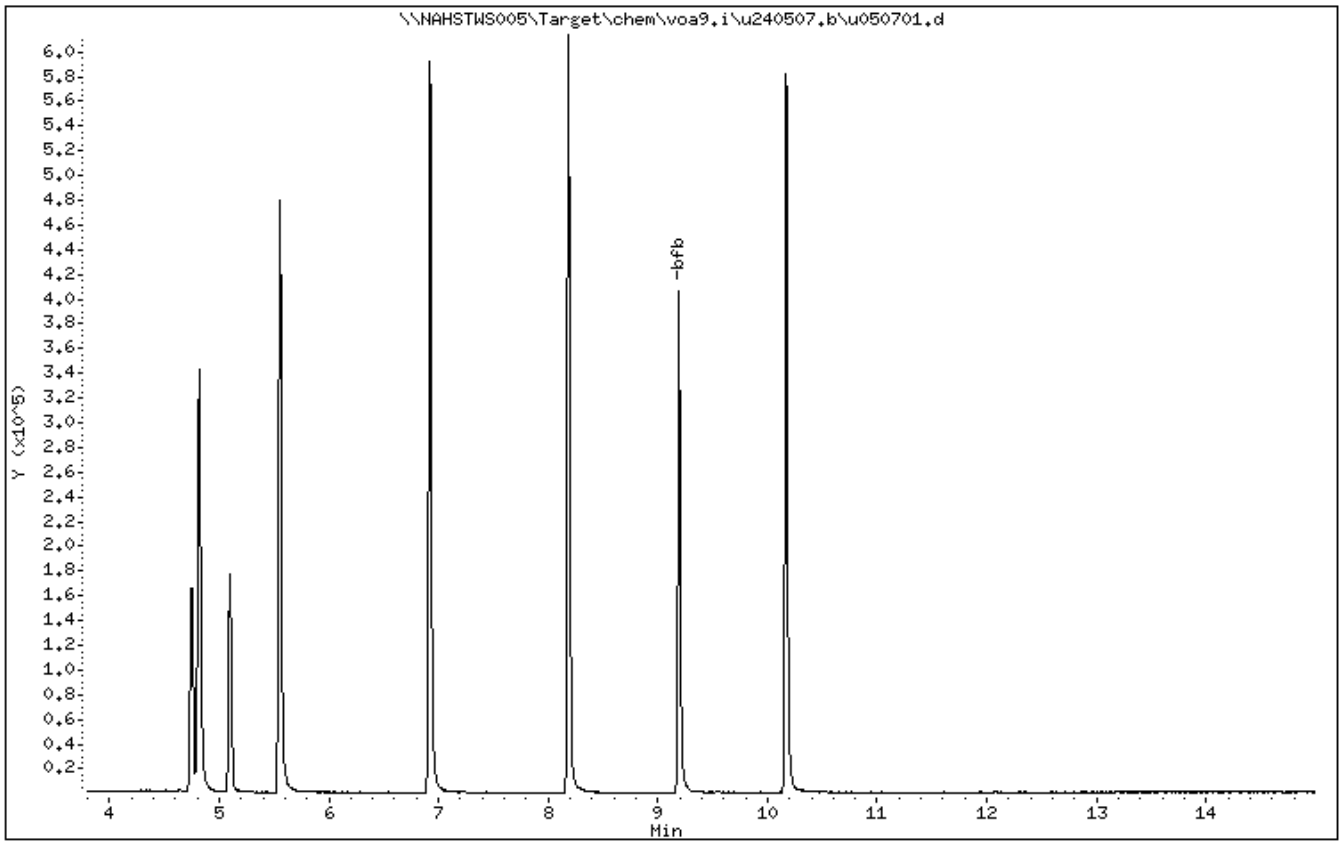
Date : 07-MAY-2024 11:43

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\u240507.b\u050701.d
Inj Date : 07-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D Page 1
Report Date: 28-May-2024 10:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 07-MAY-2024 12:05
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:32 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: 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

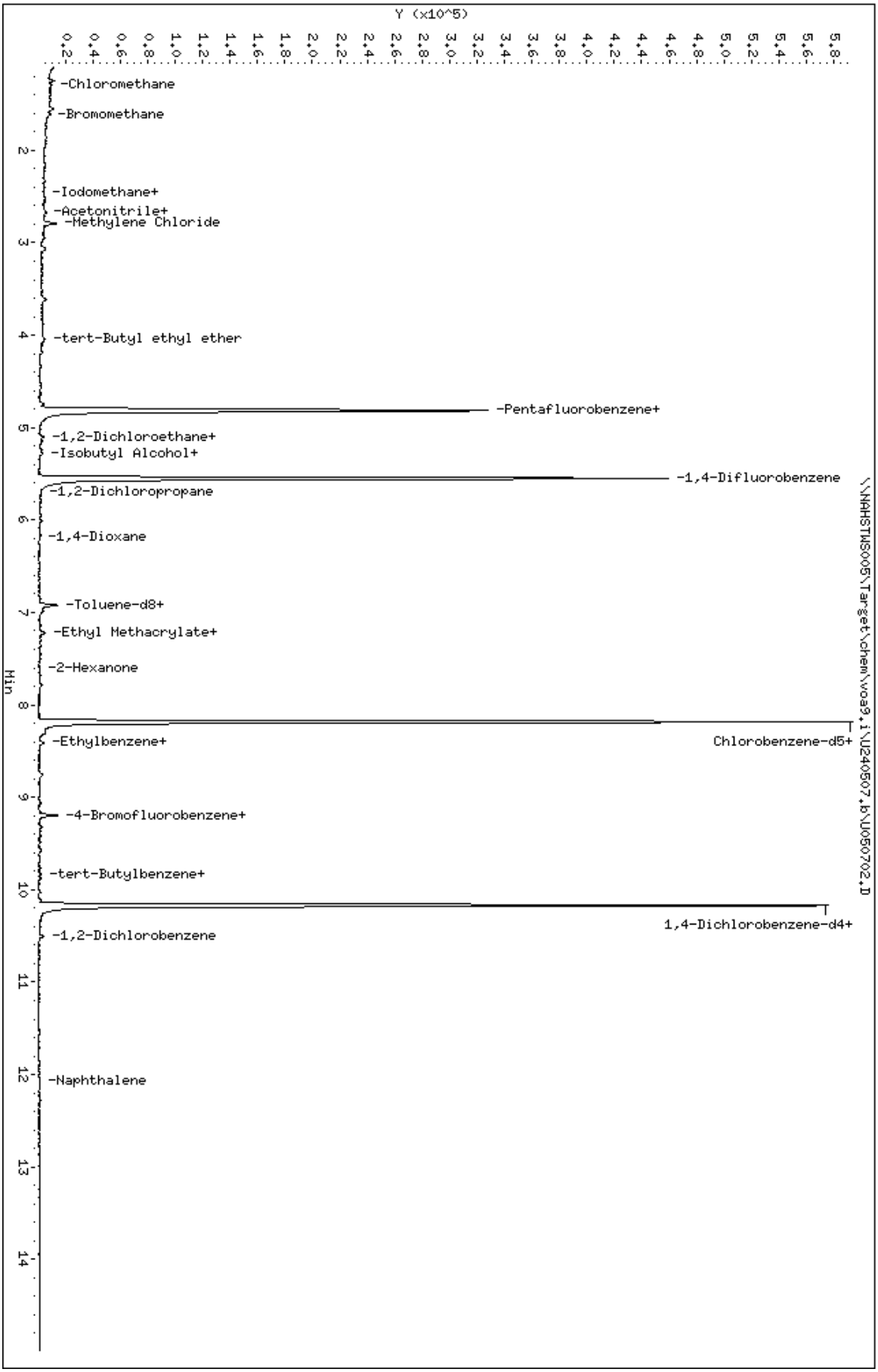
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	249059	50.0000	
	2 Dichlorodifluoromethane	85	0.999	0.999	(0.208)	13404	0.25000	9.45
	5 Vinyl Chloride	62	1.033	1.033	(0.215)	1527	0.25000	0.64
	12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	1696	5.00000	6.45(Ta)
	13 Acetonitrile	39	2.664	2.664	(0.553)	751	2.50000	3.04(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	1616	0.25000	0.25(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	624	0.50000	1.66(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1719	0.25000	(a)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	643	0.25000	0.26(a)
	34 Carbon Tetrachloride	117	4.812	4.812	(0.867)	22491	0.25000	13.37
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	2009	50.0000	(Ta)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	370655	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1427	0.25000	0.21(Ta)
	42 1,2-Dichloropropane	63	5.696	5.696	(1.026)	712	0.25000	0.55(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	329778	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	8742	50.0000	(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	626	0.25000	0.23(a)
	50 Toluene	91	6.982	6.982	(0.853)	1419	0.25000	0.21(a)
	52 2-Hexanone	43	7.601	7.601	(0.929)	754	0.50000	4.07(Ta)
	58 1-Chlorohexane	55	8.182	8.182	(1.474)	3346	0.25000	0.63(a)

61 Ethylbenzene	106	8.414	8.414 (1.028)	1000	0.25000	0.46(a)
62 m,p-Xylenes	106	8.414	8.414 (1.028)	1000	0.50000	0.38(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	63	o-Xylene	106	8.414	8.414	(1.028)	1000	0.25000	0.38(a)
$	69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	4479	50.0000	0.01(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	155199	50.0000	
	71	1,2,3-Trichloropropane	75	9.197	9.197	(0.905)	2407	0.25000	1.21(a)
	78	tert-Butylbenzene	119	9.835	9.835	(0.967)	688	0.25000	0.18(Ta)
	79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.972)	754	0.25000	0.17(a)
	83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	759	0.25000	0.25(a)
	84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	938	0.25000	0.75(a)
	88	1,2-Dichlorobenzene	146	10.510	10.510	(1.034)	777	0.25000	0.64(a)
	92	Naphthalene	128	12.076	12.076	(1.188)	946	0.25000	2.34(a)
	141	Cyclohexane	56	4.812	4.812	(0.999)	5253	0.25000	1.92(a)
	149	Isopropyl alcohol	45	2.547	2.547	(0.529)	1218	5.00000	(Ta)
	164	Dicyclopentadiene	66	10.168	10.168	(1.000)	4570	0.25000	0.51(Ta)
	166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1757	0.25000	0.30(a)
	174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	1351	0.25000	0.24(Ta)
	175	tert-Butyl ethyl ether	59	4.039	4.039	(0.839)	1668	0.25000	0.29(a)
	176	tert-Amyl alcohol	59	5.235	5.235	(1.087)	705	5.00000	4.12(a)
	151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2497	5.00000	38.44

QC Flag Legend

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



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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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050702.D
Inj Date : 07-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

BEFORE

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88
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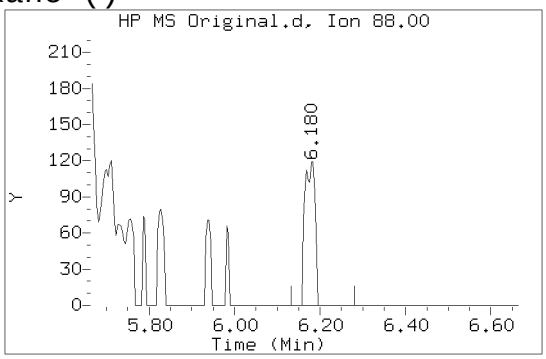
197
HEIGHT
119
07-May-2024
13:41
firat
tastan



AFTER

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28-May-2024
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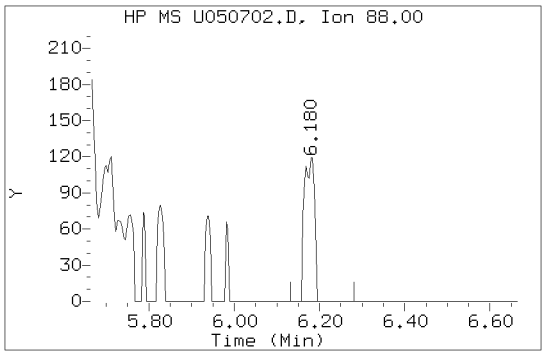

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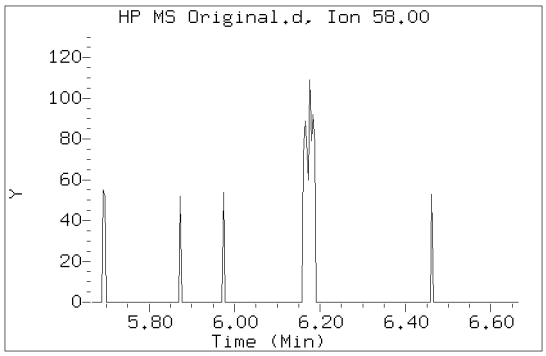

AFTER

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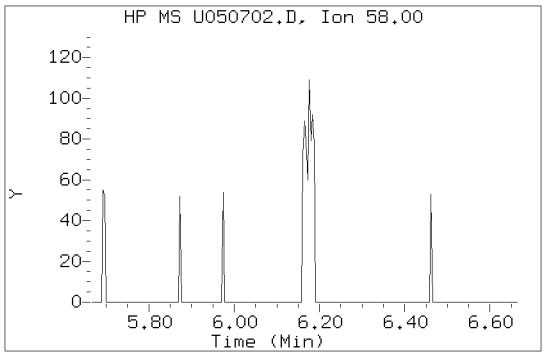

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
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Inj Date : 07-MAY-2024 12:26
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:32 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:05 Cal File: U050702.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: 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	4.819	4.819	(1.000)	239238	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.172	(0.243)	578	0.50000	0.54(M)
4 Propionitrile	54	4.350	4.350	(0.903)	2175	5.00000	(aM)
5 Vinyl Chloride	62	1.385	1.385	(0.288)	1033	0.50000	0.41(aM)
6 Bromomethane	94	1.629	1.629	(0.338)	1339	0.50000	0.63
8 Trichlorofluoromethane	101	1.903	1.903	(0.395)	999	0.50000	0.31(a)
9 Acrolein	56	2.277	2.277	(0.473)	365	1.00000	(aM)
11 1,1-Dichloroethene	96	2.341	2.341	(0.486)	760	0.50000	0.22(aM)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	2050	10.0000	8.12(a)
13 Acetonitrile	39	2.682	2.682	(0.557)	1278	5.00000	5.38(a)
14 Allyl Chloride	41	2.679	2.679	(0.556)	3625	0.50000	0.59(a)
15 Iodomethane	142	2.476	2.476	(0.514)	1163	1.00000	2.06(T)
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3272	0.50000	0.58
19 Carbon Disulfide	76	2.529	2.529	(0.525)	3605	1.00000	0.95(M)
20 trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	855	0.50000	0.21(Ta)
21 Vinyl Acetate	43	4.362	4.362	(0.905)	1116	1.00000	1.08(M)
22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	1674	0.50000	0.35(Ta)
23 Chloroprene	53	2.169	2.169	(0.450)	322	0.50000	(aM)
24 2-Butanone	43	4.275	4.275	(0.887)	768	1.00000	1.01(M)
25 Methacrylonitrile	41	4.504	4.504	(0.935)	697	0.50000	0.53(aM)

26	2,2-Dichloropropane	77	4.189	4.189 (0.869)	1026	0.50000	0.97(M)
27	cis-1,2-Dichloroethene	96	4.201	4.201 (0.872)	942	0.50000	0.47(aM)

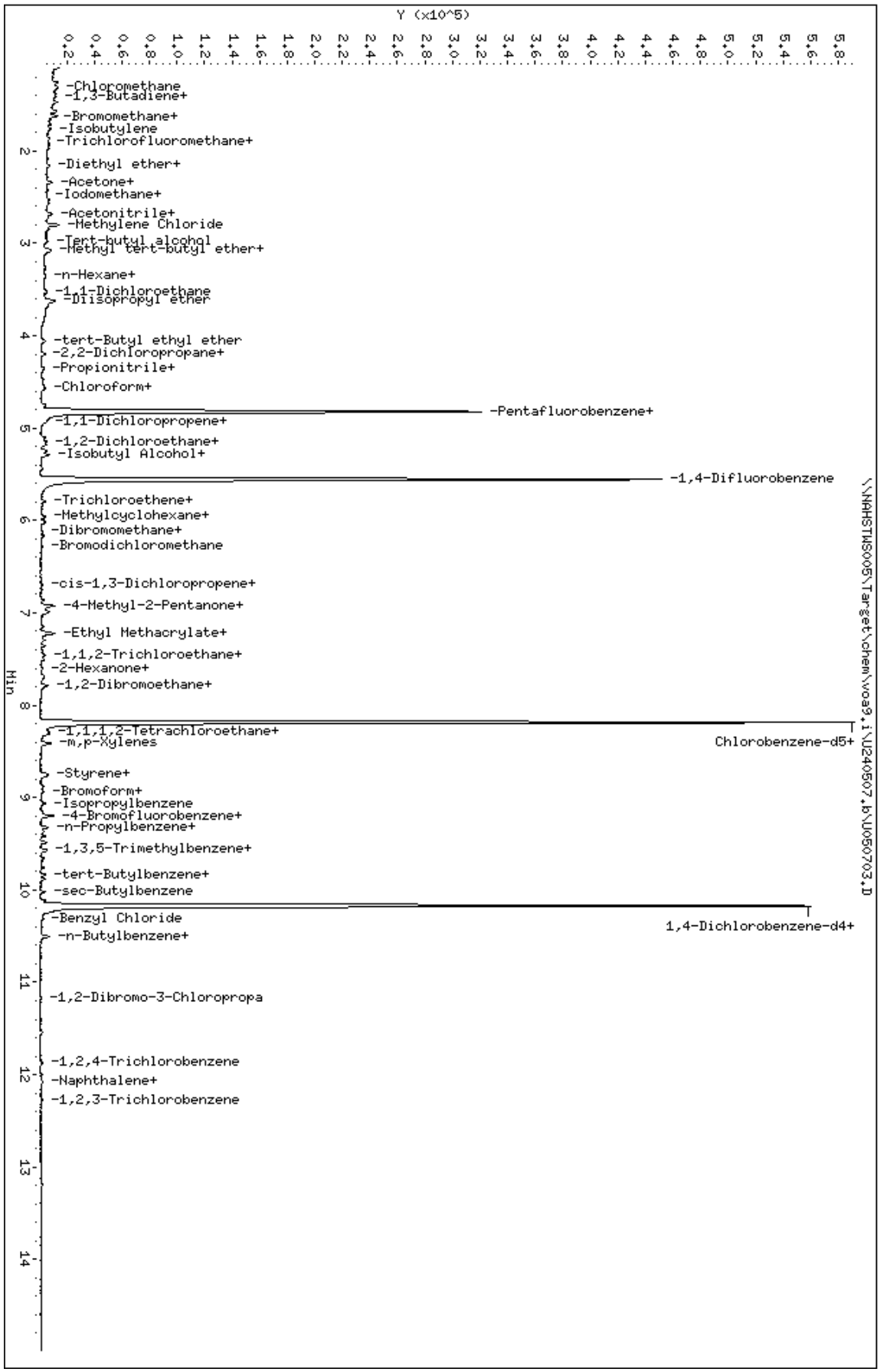
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	28 Chloroform	83	4.579	4.579	(0.950)	1416	0.50000	0.51
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	1673	0.50000	(a)
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	908	0.50000	0.46(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	1313	0.50000	0.63
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	1436	0.50000	0.61
	34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	1152	0.50000	1.00(M)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	2366	0.50000	(Ta)
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	357429	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	3486	0.50000	0.54
	38 Trichloroethene	130	5.794	5.794	(1.042)	743	0.50000	0.31(aM)
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	908	0.50000	0.49(aM)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	942	0.50000	0.71(aM)
	44 Dibromomethane	93	6.120	6.120	(1.101)	650	0.50000	0.61(aM)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	1914	1.00000	1.06(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	858	0.50000	1.42(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318566	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	6516	0.50000	(a)
	49 Ethyl Methacrylate	69	7.222	7.222	(1.299)	1354	0.50000	0.51(a)
	50 Toluene	91	6.986	6.986	(0.853)	2979	0.50000	0.47(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	542	0.50000	1.62(aM)
	52 2-Hexanone	43	7.604	7.604	(0.929)	823	1.00000	4.14(a)
	53 1,1,2-Trichloroethane	83	7.361	7.361	(0.899)	776	0.50000	0.59(a)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	1525	0.50000	0.55(aM)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	591	0.50000	2.81(aM)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	524	0.50000	0.24(aM)
	57 1,2-Dibromoethane	107	7.792	7.792	(0.952)	768	0.50000	0.52(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.473)	3861	0.50000	1.09(aM)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	2517	0.50000	0.57(a)
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	484	0.50000	2.26(aM)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1013	0.50000	0.49(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2121	1.00000	0.84(a)
	63 o-Xylene	106	8.751	8.751	(1.069)	1129	0.50000	0.45(aM)
	64 Styrene	104	8.770	8.770	(1.071)	1735	0.50000	0.41(a)
	66 Bromoform	173	8.920	8.920	(1.090)	257	0.50000	1.77(aM)
	67 Isopropylbenzene	105	9.066	9.066	(1.108)	2370	0.50000	0.39(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1306	0.50000	1.06(aM)
$	69 4-Bromofluorobenzene	95	9.198	9.198	(1.124)	3252	0.50000	(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	154818	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1035	0.50000	0.52(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.389	9.389	(1.147)	306	0.50000	1.23(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	2630	0.50000	0.42(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	851	0.50000	0.50(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1929	0.50000	0.42(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	2284	0.50000	0.54(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	2483	0.50000	0.52(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	1544	0.50000	0.40(a)
	79 1,2,4-Trimethylbenzene	105	9.884	9.884	(0.972)	1797	0.50000	0.40(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	2002	0.50000	0.40(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	1722	0.50000	0.39(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	1560	0.50000	0.53(a)
	84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	2024	0.50000	1.11(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	759	0.50000	3.35(aM)

87 n-Butylbenzene	91	10.498	10.498 (1.032)	1564	0.50000	1.03(a)
88 1,2-Dichlorobenzene	146	10.510	10.510 (1.033)	1873	0.50000	1.02(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
89	1,2-Dibromo-3-Chloropropane	155	11.177	11.177	(1.099)	65	0.50000	2.18(aM)
90	1,2,4-Trichlorobenzene	180	11.870	11.870	(1.167)	693	0.50000	1.13(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	408	0.50000	0.54(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	1860	0.50000	2.51(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	865	0.50000	0.49(aM)
146	Methyl acetate	43	2.720	2.720	(0.564)	1937	0.50000	(aM)
138	Freon TF	101	2.341	2.341	(0.486)	567	0.50000	0.44(aM)
141	Cyclohexane	56	4.819	4.819	(1.000)	5220	0.50000	2.00(a)
147	Methylcyclohexane	55	5.955	5.955	(1.071)	2008	0.50000	0.45(a)
132	n-Butanol	56	5.842	5.842	(1.212)	818	10.0000	12.74(aM)
136	n-Hexane	57	3.353	3.353	(0.696)	811	0.50000	0.39(Ta)
139	Diethyl ether	59	2.150	2.150	(0.446)	1027	0.50000	0.61(Ta)
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	2485	10.0000	(Ta)
152	Amyl alcohol	42	7.409	7.409	(0.905)	551	10.0000	13.50(M)
156	Diisopropyl ether	45	3.631	3.631	(0.753)	3831	0.50000	0.56(aM)
162	Butyl acrylate	55	8.744	8.744	(1.068)	1617	0.50000	1.82(Ta)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	6222	0.50000	0.73(TaM)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2850	0.50000	0.49(a)
167	Ethanol	45	2.090	2.090	(0.434)	520	10.0000	(TaM)
172	tert-Butyl formate	59	5.246	5.246	(1.089)	1950	1.00000	1.14(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	3047	10.0000	29.11(M)
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	2810	0.50000	0.52(Ta)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	2896	0.50000	0.52(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	1890	10.0000	11.51
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	4761	10.0000	41.98
140	1,3-Butadiene	54	1.411	1.411	(0.293)	689	0.50000	0.44(a)
158	Dichlorofluoromethane	67	1.869	1.869	(0.388)	1793	0.50000	0.52(M)
182	Epichlorohydrin	57	6.637	6.637	(1.194)	321	2.00000	2.10(aM)
M 94	1,2-Dichloroethylene (total)	96				1797	1.00000	(a)
130	Ethyl Acetate	43	4.362	4.362	(0.905)	1144	0.50000	0.56(aM)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	1111	0.50000	3.27(aM)
134	Cyclohexanone	55	9.153	9.153	(0.900)	789	10.0000	8.62(aM)
185	Isoprene	39	2.165	2.165	(0.449)	156	0.50000	0.40(aM)
188	Isopropyl acetate	43	5.291	5.291	(0.952)	2022	0.50000	0.39(aM)
150	Allyl alcohol	57	3.353	3.353	(0.696)	811	10.0000	7.82
194	Acetaldehyde	44	1.471	1.471	(0.305)	1055	2.00000	(aM)
195	Methyl Amyl Ketone	43	8.879	8.879	(1.085)	1474	0.50000	2.70(aM)
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	292	0.50000	2.18(aM)
203	2-Ethylhexyl Acrylate	55	12.058	12.058	(1.185)	664	0.50000	2.19(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: 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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
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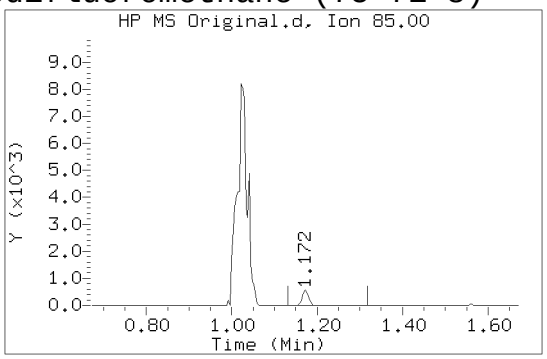
85
AREA
578
HEIGHT
573
28-May-2024
09:17
tianna
smith



AFTER
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578
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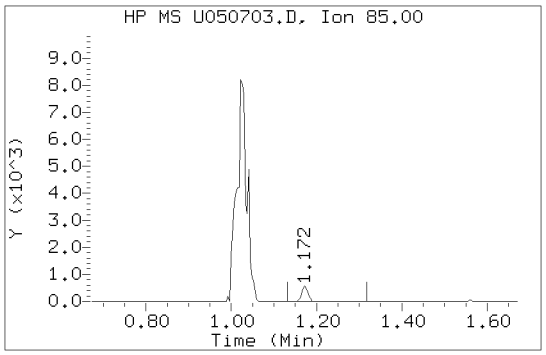
28-May-2024
10:32



BEFORE
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HEIGHT
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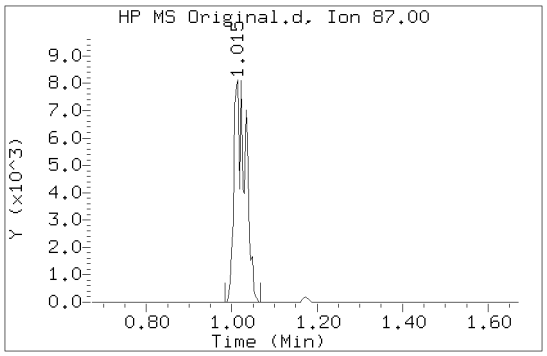
28-May-2024
09:17
tianna
smith



AFTER
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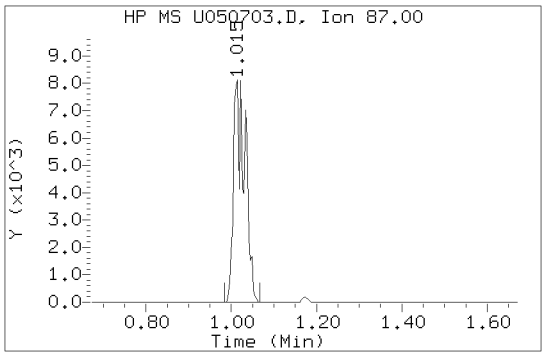
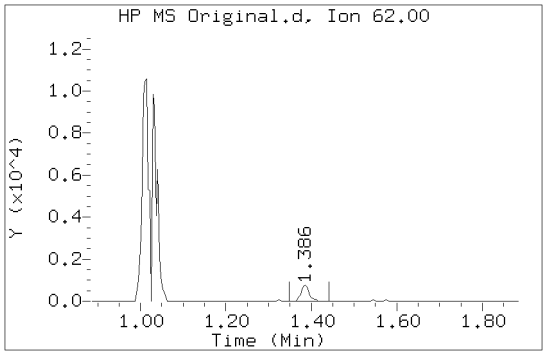
15393
HEIGHT
8122
28-May-2024
10:32



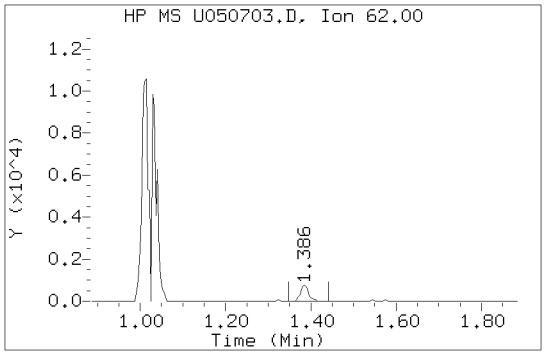
Vinyl Chloride (75-01-4)

Reason Code:

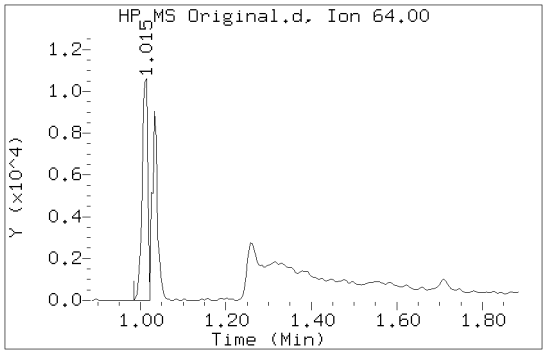
BEFORE
MASS
62
AREA
1033
HEIGHT
776
28-May-2024
09:17
tianna
smith



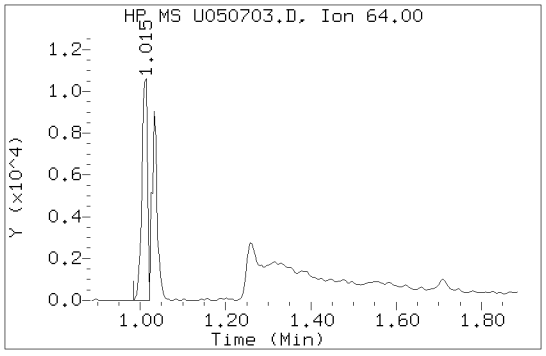
AFTER
MASS
62
AREA
1033
HEIGHT
776
28-May-2024
10:32



BEFORE
MASS
64
AREA
9728
HEIGHT
10605
28-May-2024
09:17
tianna
smith



AFTER
MASS
64
AREA
9728
HEIGHT
10605
28-May-2024
10:32



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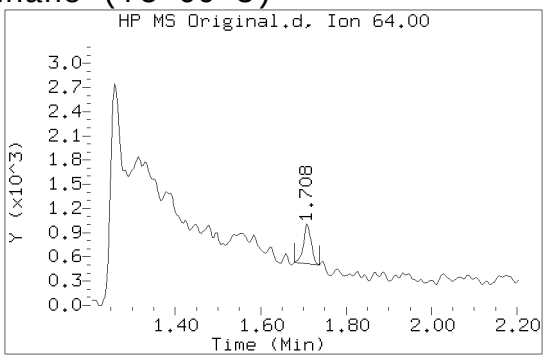
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

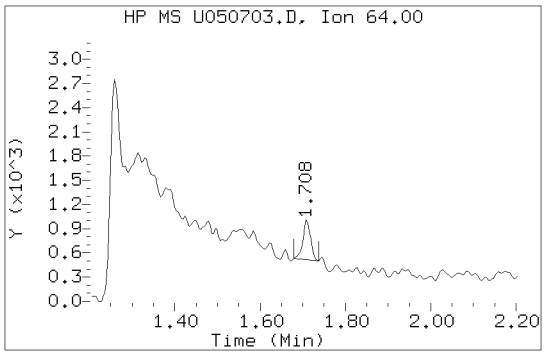
Chloroethane (75-00-3)

Reason Code:

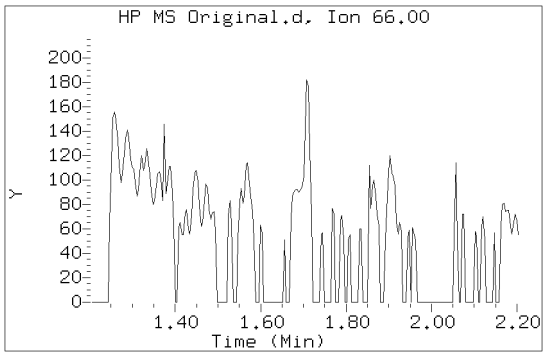
BEFORE
MASS
64
AREA
624
HEIGHT
492
28-May-2024
09:17
tianna
smith



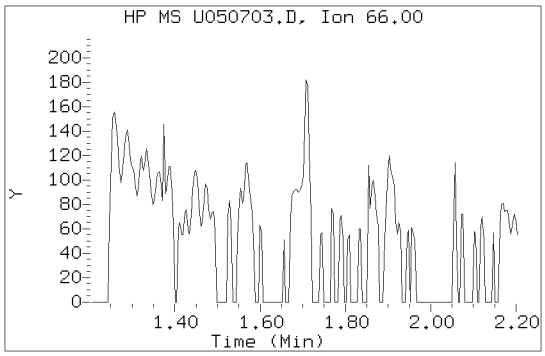
AFTER
MASS
64
AREA
624
HEIGHT
492
28-May-2024
10:32



BEFORE
MASS
66
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



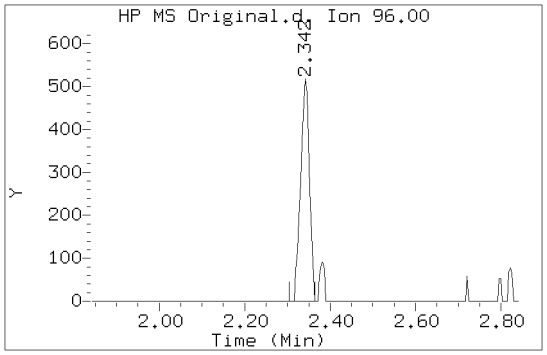
AFTER
MASS
66
AREA
0
HEIGHT
0
28-May-2024
10:32



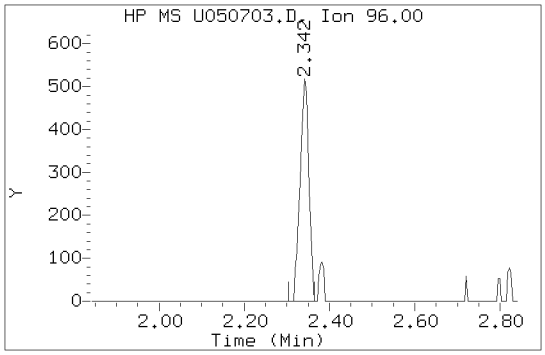
1,1-Dichloroethene (75-35-4)

Reason Code:

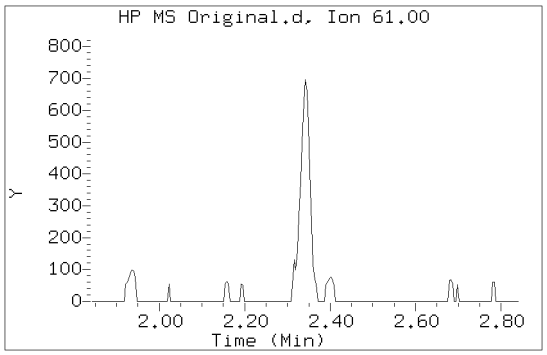
BEFORE
MASS
96
AREA
760
HEIGHT
518
28-May-2024
09:17
tianna
smith



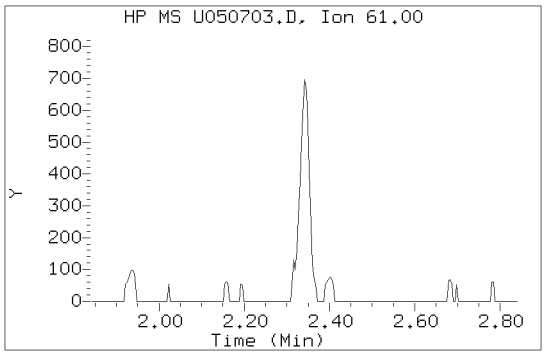
AFTER
MASS
96
AREA
760
HEIGHT
518
28-May-2024
10:32



BEFORE
MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



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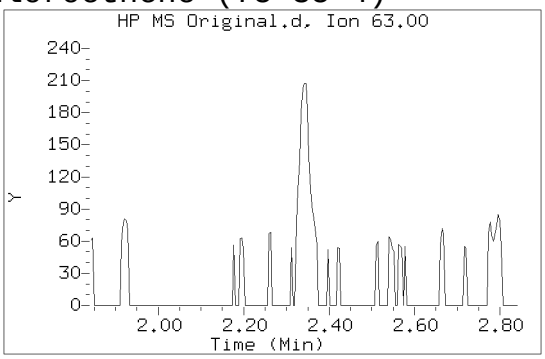
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

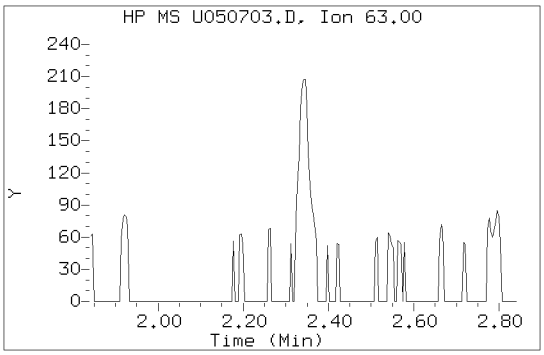
BEFORE

MASS
63
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
63
AREA
0
HEIGHT
0
28-May-2024
10:32

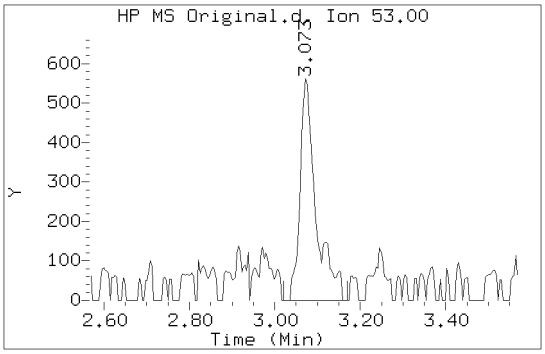


Acrylonitrile (107-13-1)

Reason Code:

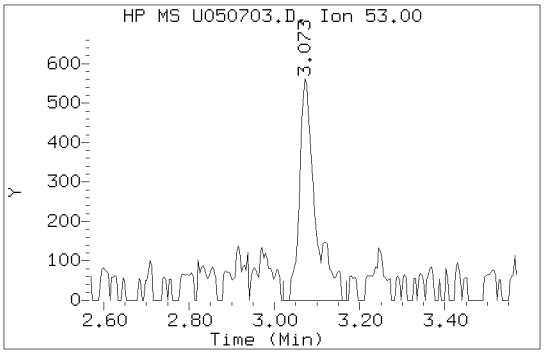
BEFORE

MASS
53
AREA
1473
HEIGHT
562
28-May-2024
09:17
tianna
smith



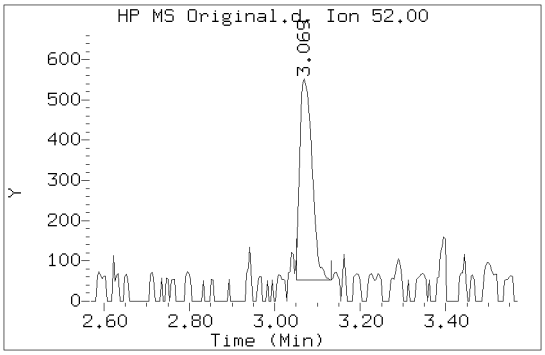
AFTER

MASS
53
AREA
1473
HEIGHT
562
28-May-2024
10:32



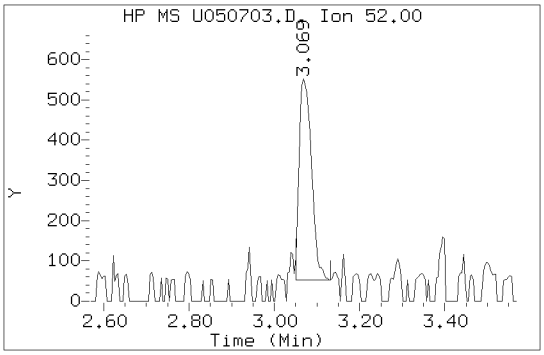
BEFORE

MASS
52
AREA
1023
HEIGHT
499
28-May-2024
09:17
tianna
smith



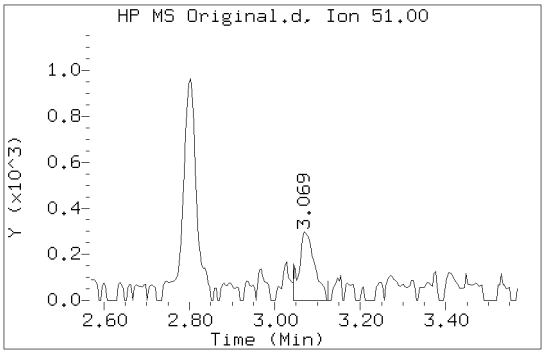
AFTER

MASS
52
AREA
1023
HEIGHT
499
28-May-2024
10:32



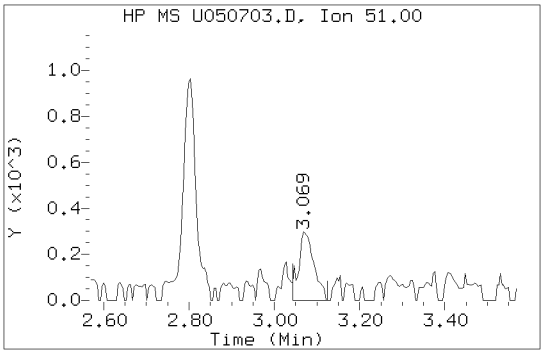
BEFORE

MASS
51
AREA
757
HEIGHT
299
28-May-2024
09:17
tianna
smith



AFTER

MASS
51
AREA
757
HEIGHT
299
28-May-2024
10:32



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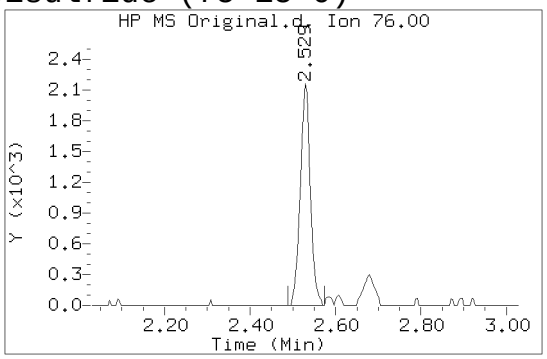
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

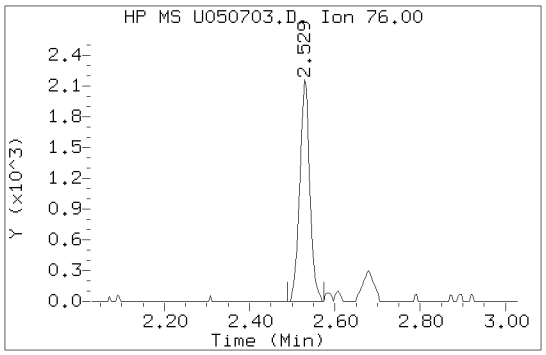
Carbon Disulfide (75-15-0)

Reason Code:

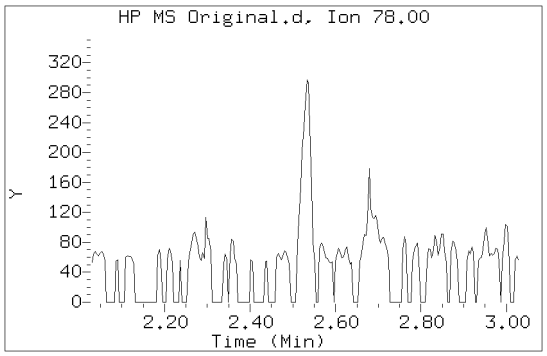
BEFORE
MASS
76
AREA
3605
HEIGHT
2162
28-May-2024
09:17
tianna
smith



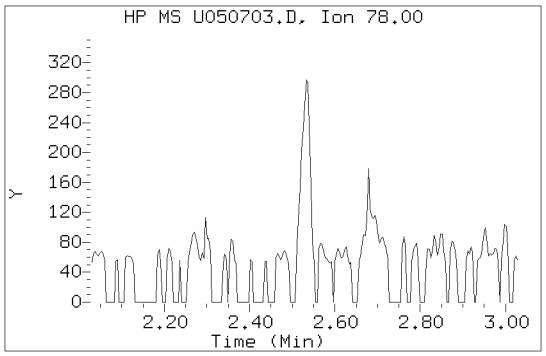
AFTER
MASS
76
AREA
3605
HEIGHT
2162
28-May-2024
10:32



BEFORE
MASS
78
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



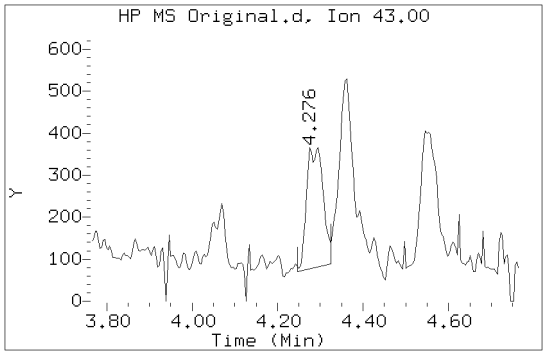
AFTER
MASS
78
AREA
0
HEIGHT
0
28-May-2024
10:32



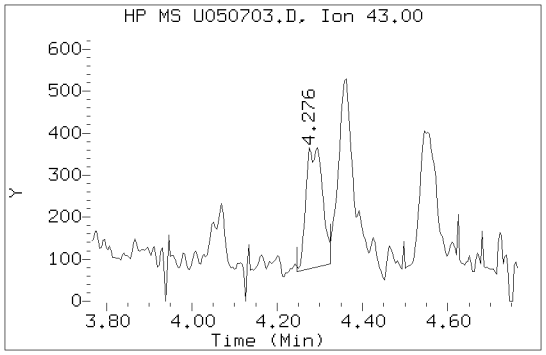
2-Butanone (78-93-3)

Reason Code:

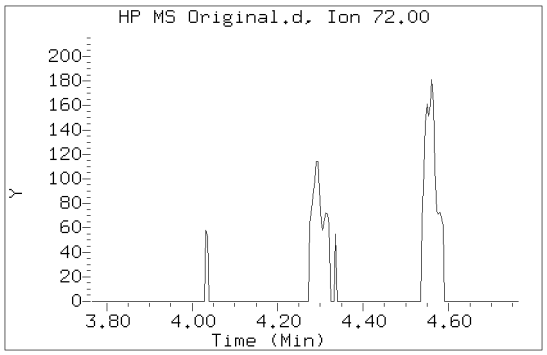
BEFORE
MASS
43
AREA
768
HEIGHT
287
28-May-2024
09:17
tianna
smith



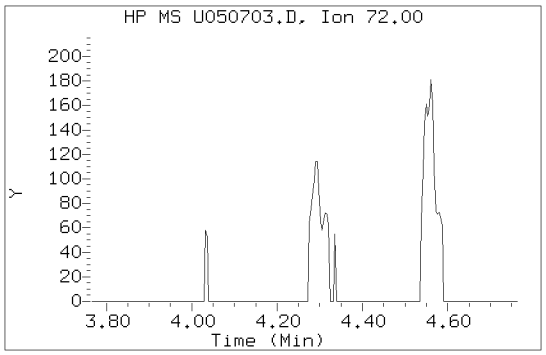
AFTER
MASS
43
AREA
768
HEIGHT
287
28-May-2024
10:32



BEFORE
MASS
72
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
72
AREA
0
HEIGHT
0
28-May-2024
10:32



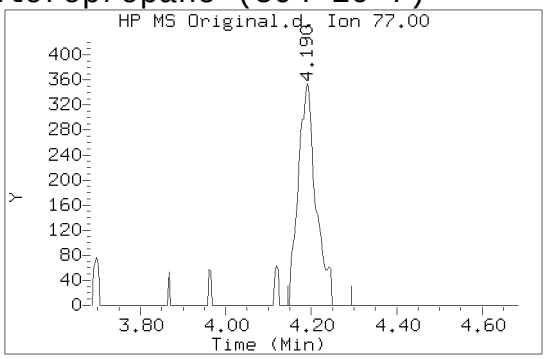
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

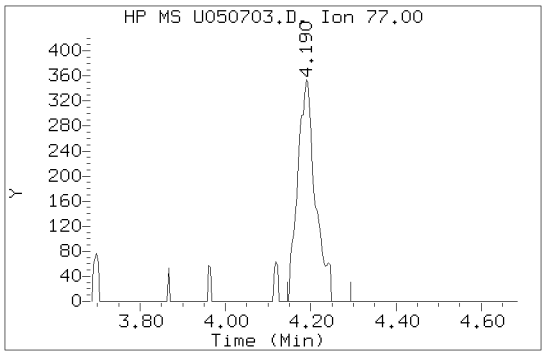
BEFORE

MASS
77
AREA
1026
HEIGHT
354
28-May-2024
09:17
tianna
smith



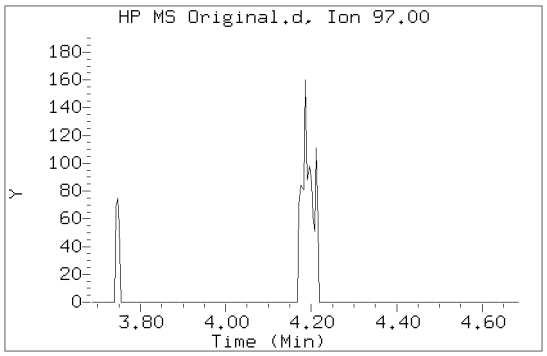
AFTER

MASS
77
AREA
1026
HEIGHT
354
28-May-2024
10:32



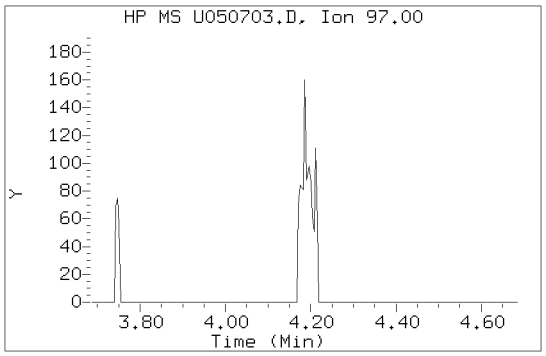
BEFORE

MASS
97
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
97
AREA
0
HEIGHT
0
28-May-2024
10:32

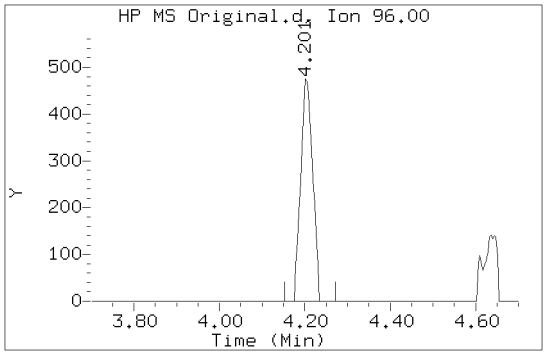


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

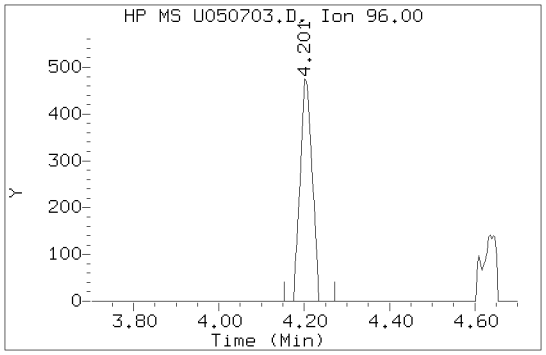
BEFORE

MASS
96
AREA
942
HEIGHT
475
28-May-2024
09:17
tianna
smith



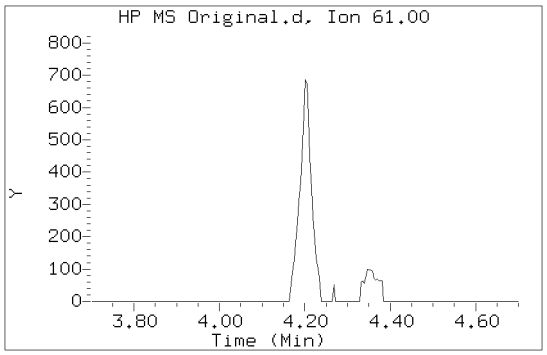
AFTER

MASS
96
AREA
942
HEIGHT
475
28-May-2024
10:32



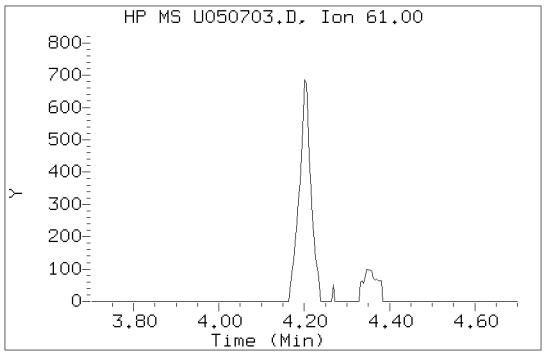
BEFORE

MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32

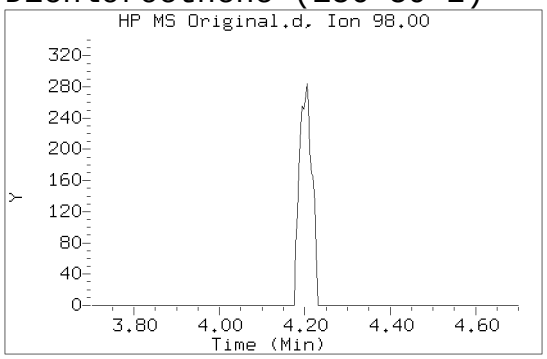


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

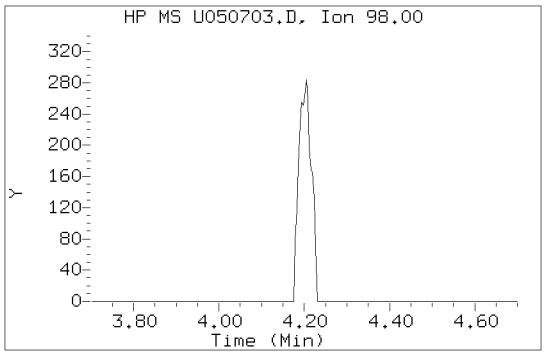
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
MASS
98
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



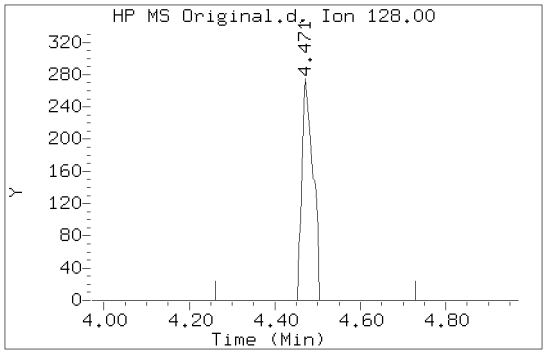
AFTER
MASS
98
AREA
0
HEIGHT
0
28-May-2024
10:32



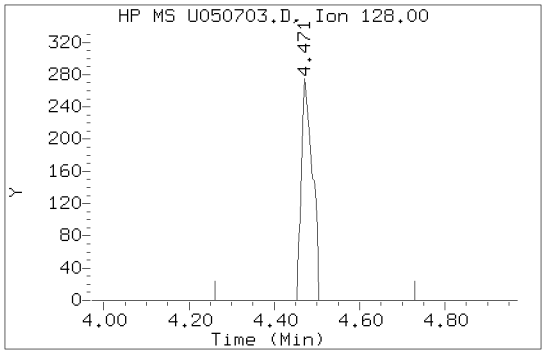
Bromochloromethane (74-97-5)

Reason Code:

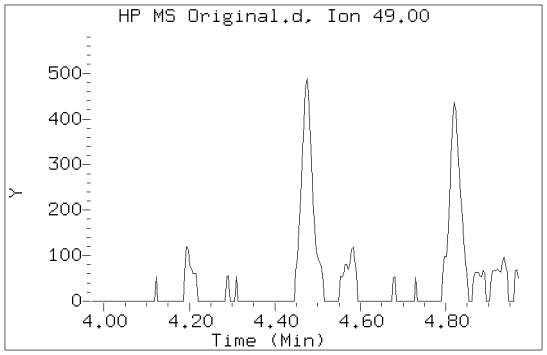
BEFORE
MASS
128
AREA
502
HEIGHT
275
28-May-2024
09:17
tianna
smith



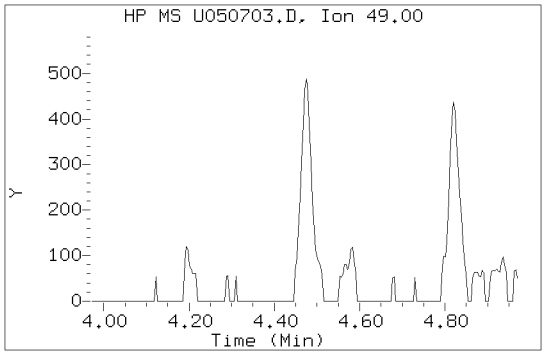
AFTER
MASS
128
AREA
502
HEIGHT
275
28-May-2024
10:32



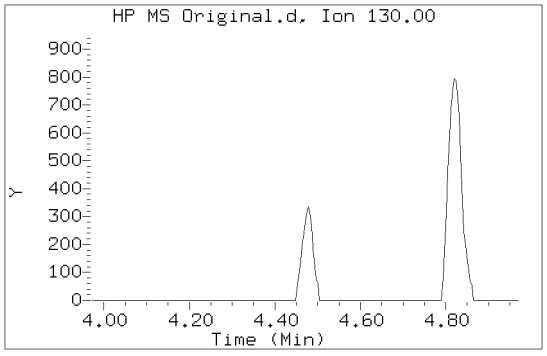
BEFORE
MASS
49
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



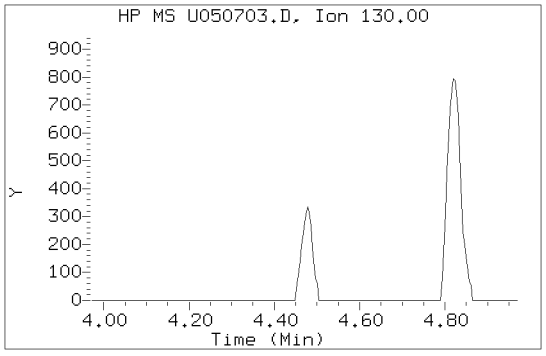
AFTER
MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
130
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
130
AREA
0
HEIGHT
0
28-May-2024
10:32



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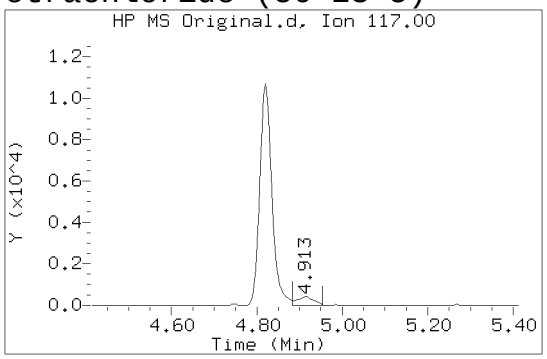
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

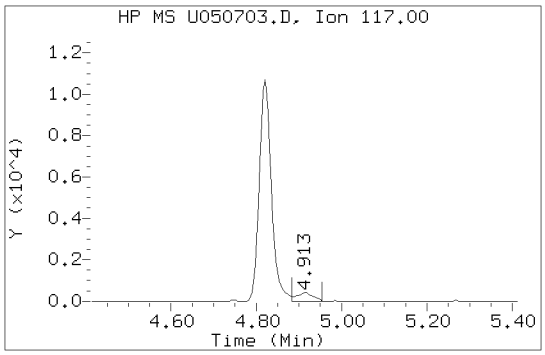
BEFORE

MASS
117
AREA
1152
HEIGHT
437
28-May-2024
09:17
tianna
smith



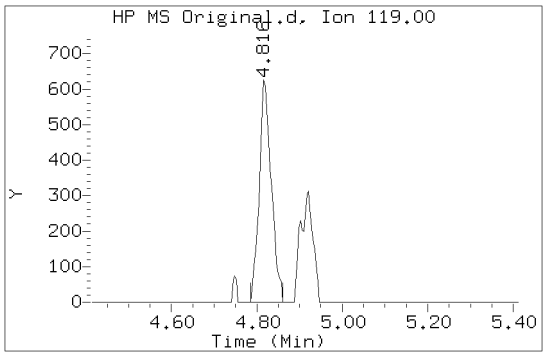
AFTER

MASS
117
AREA
1152
HEIGHT
437
28-May-2024
10:32



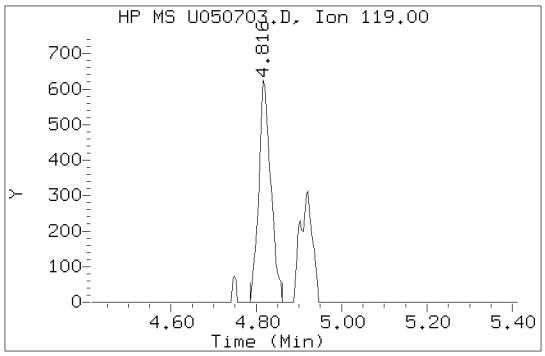
BEFORE

MASS
119
AREA
1223
HEIGHT
626
28-May-2024
09:17
tianna
smith



AFTER

MASS
119
AREA
1223
HEIGHT
626
28-May-2024
10:32

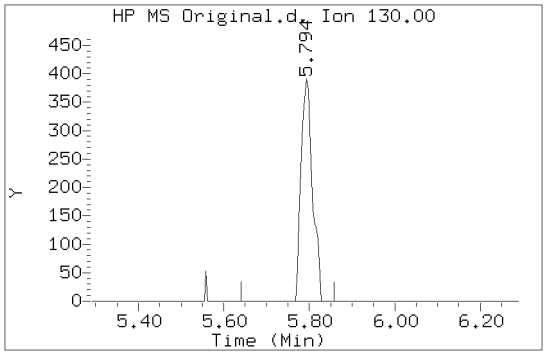


Trichloroethene (79-01-6)

Reason Code:

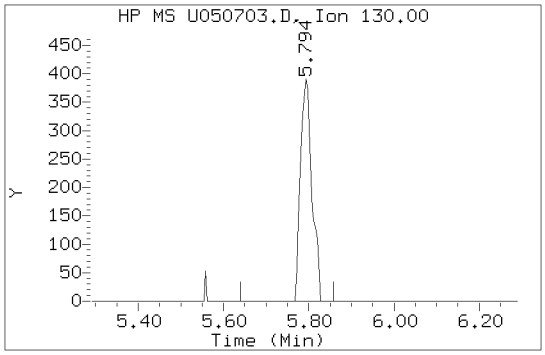
BEFORE

MASS
130
AREA
743
HEIGHT
391
28-May-2024
09:17
tianna
smith



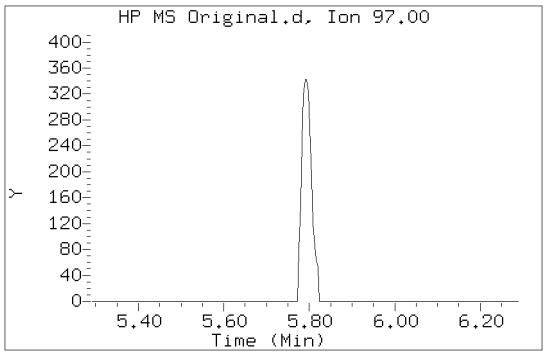
AFTER

MASS
130
AREA
743
HEIGHT
391
28-May-2024
10:32



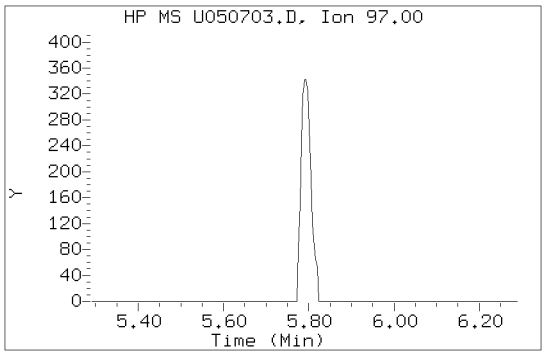
BEFORE

MASS
97
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
97
AREA
0
HEIGHT
0
28-May-2024
10:32



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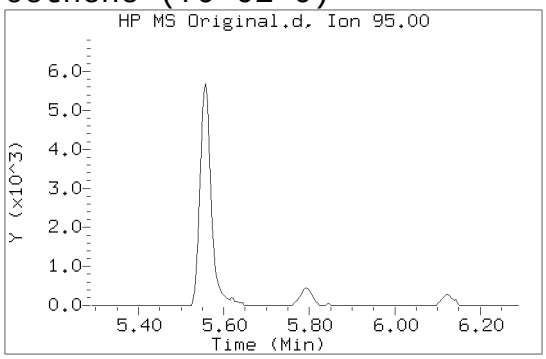
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

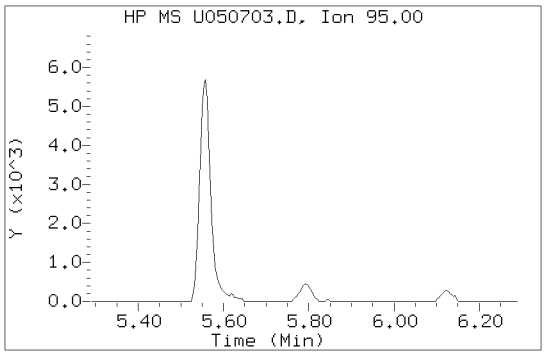
Trichloroethene (79-01-6)

Reason Code:

BEFORE
MASS
95
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



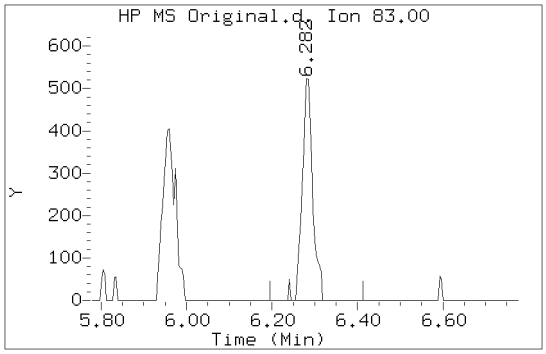
AFTER
MASS
95
AREA
0
HEIGHT
0
28-May-2024
10:32



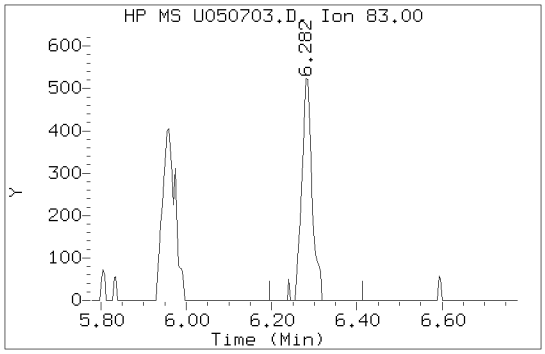
Bromodichloromethane (75-27-4)

Reason Code:

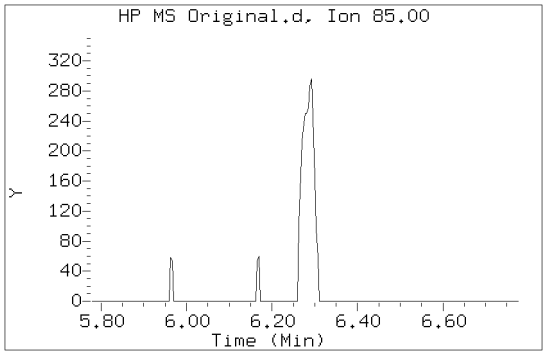
BEFORE
MASS
83
AREA
908
HEIGHT
523
28-May-2024
09:17
tianna
smith



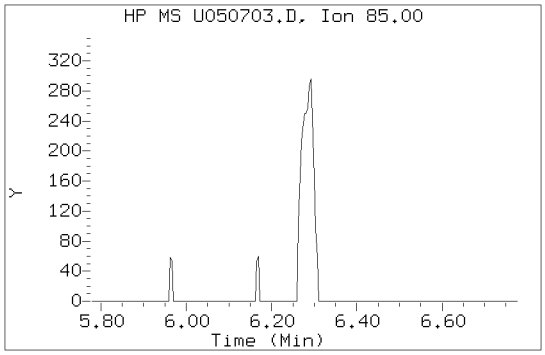
AFTER
MASS
83
AREA
908
HEIGHT
523
28-May-2024
10:32



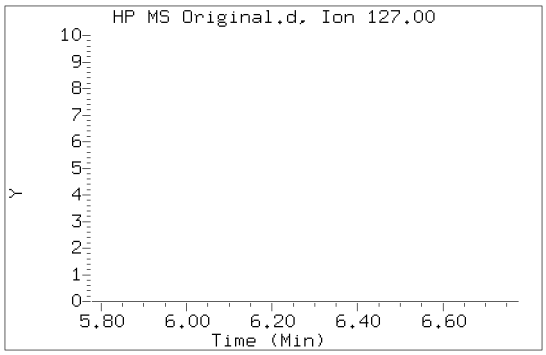
BEFORE
MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



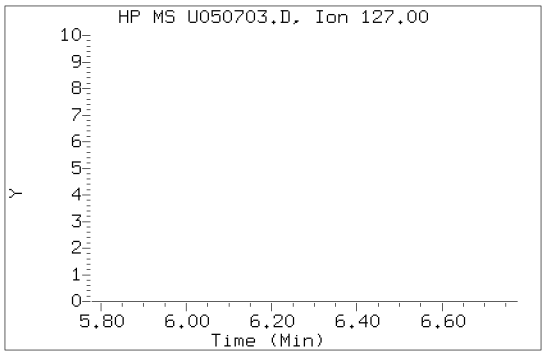
AFTER
MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
127
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
127
AREA
0
HEIGHT
0
28-May-2024
10:32



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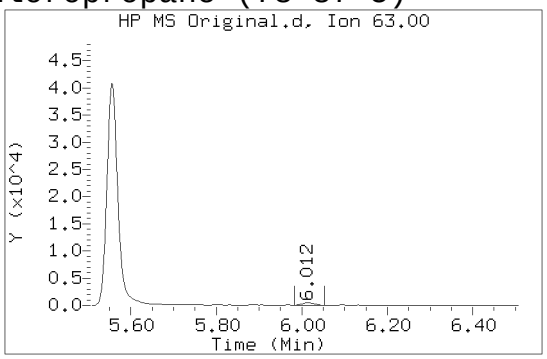
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

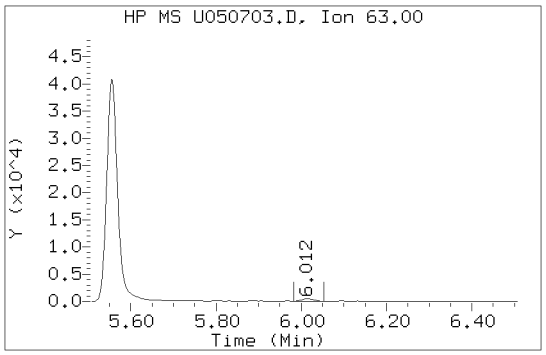
1,2-Dichloropropane (78-87-5)

Reason Code:

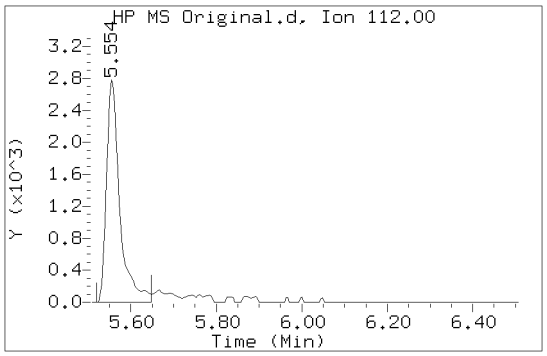
BEFORE
MASS
63
AREA
942
HEIGHT
450
28-May-2024
09:17
tianna
smith



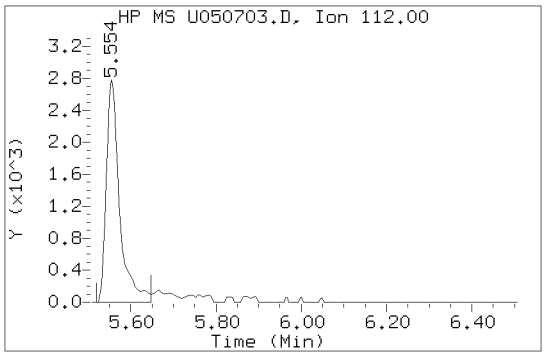
AFTER
MASS
63
AREA
942
HEIGHT
450
28-May-2024
10:32



BEFORE
MASS
112
AREA
6021
HEIGHT
2781
28-May-2024
09:17
tianna
smith



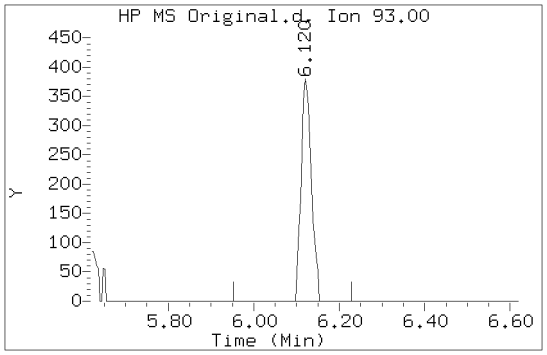
AFTER
MASS
112
AREA
6021
HEIGHT
2781
28-May-2024
10:32



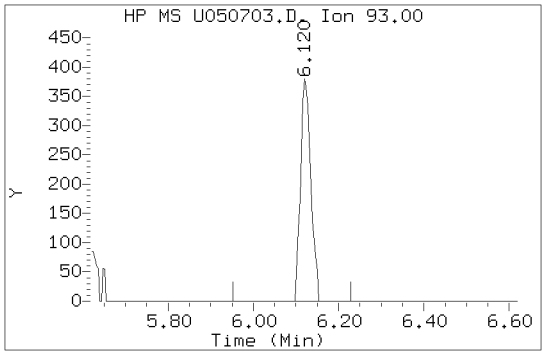
Dibromomethane (74-95-3)

Reason Code:

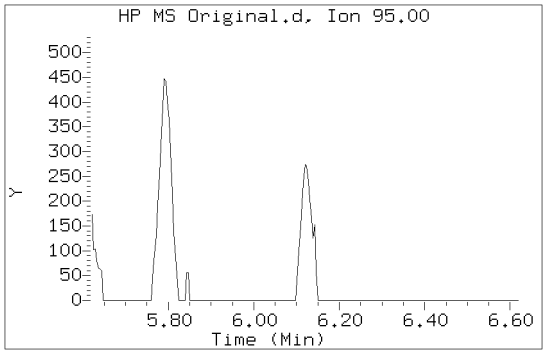
BEFORE
MASS
93
AREA
650
HEIGHT
380
28-May-2024
09:17
tianna
smith



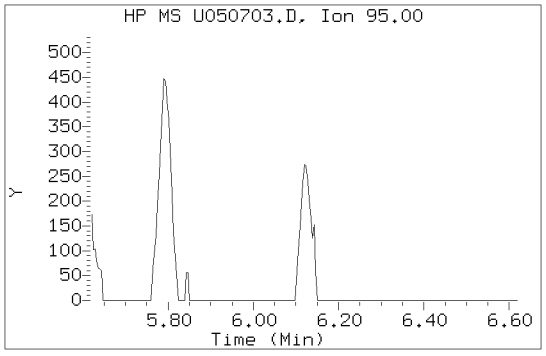
AFTER
MASS
93
AREA
650
HEIGHT
380
28-May-2024
10:32



BEFORE
MASS
95
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
95
AREA
0
HEIGHT
0
28-May-2024
10:32



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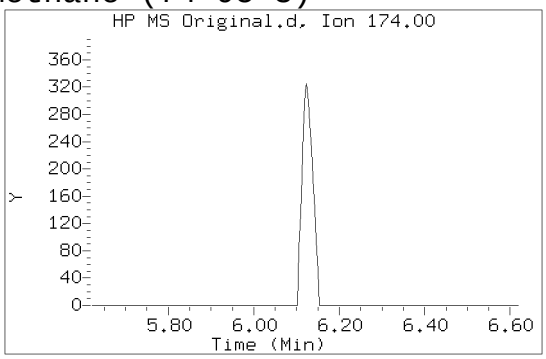
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

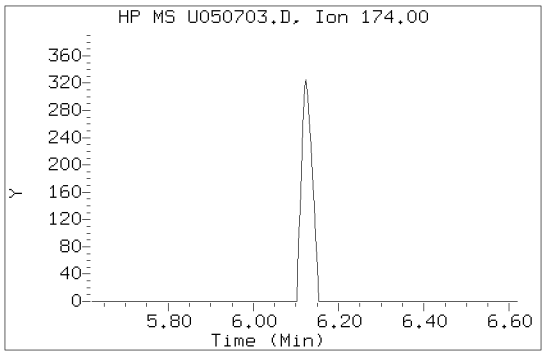
Dibromomethane (74-95-3)

Reason Code:

BEFORE
MASS
174
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



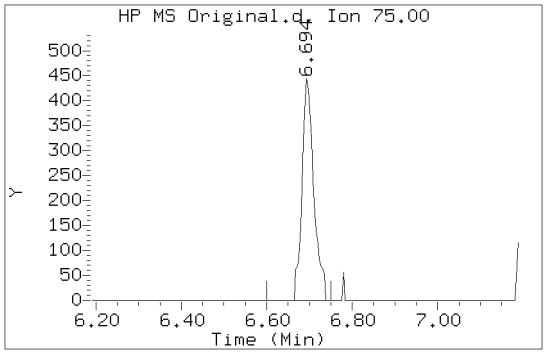
AFTER
MASS
174
AREA
0
HEIGHT
0
28-May-2024
10:32



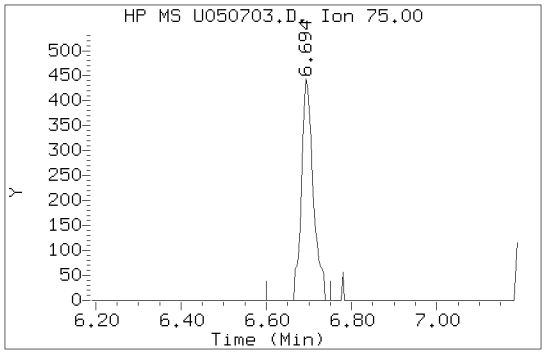
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

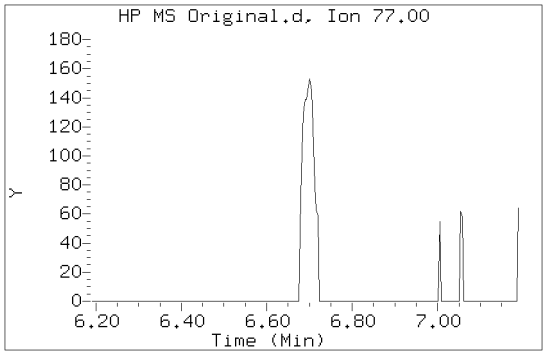
BEFORE
MASS
75
AREA
858
HEIGHT
444
28-May-2024
09:17
tianna
smith



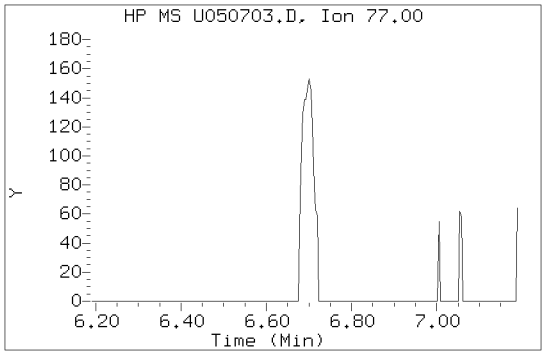
AFTER
MASS
75
AREA
858
HEIGHT
444
28-May-2024
10:32



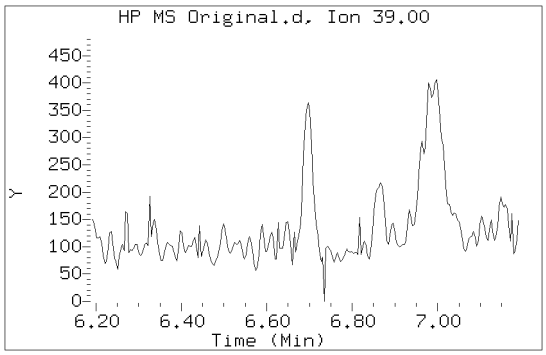
BEFORE
MASS
77
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



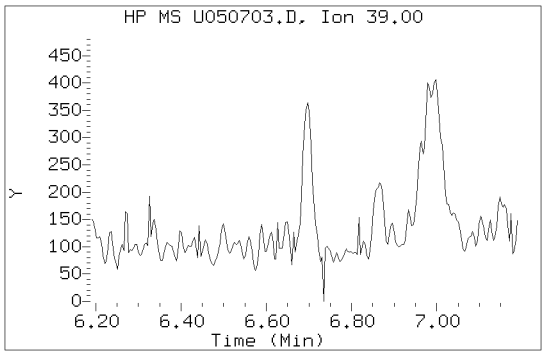
AFTER
MASS
77
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32



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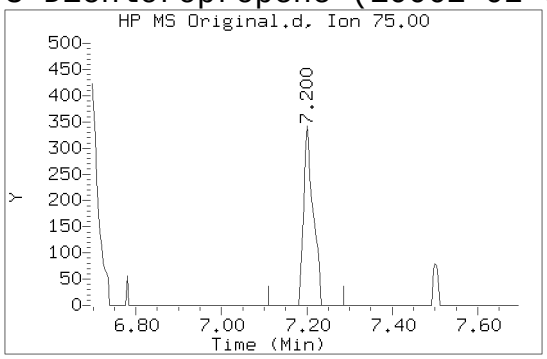
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

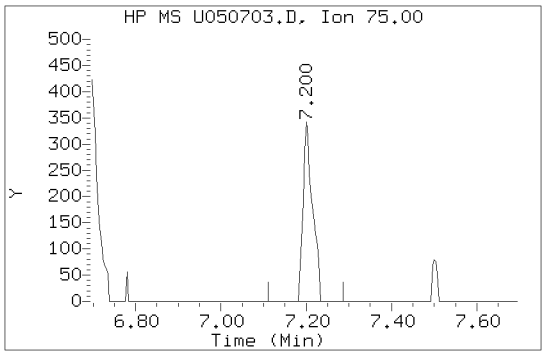
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

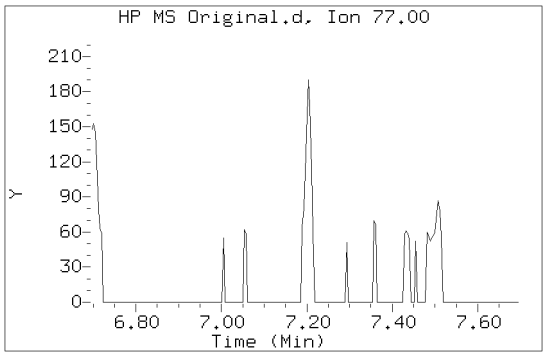
BEFORE
MASS
75
AREA
542
HEIGHT
343
28-May-2024
09:17
tianna
smith



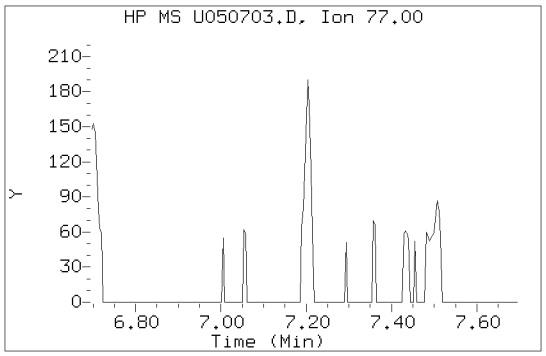
AFTER
MASS
75
AREA
542
HEIGHT
343
28-May-2024
10:32



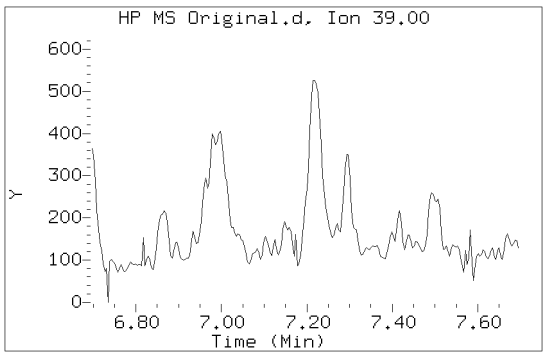
BEFORE
MASS
77
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



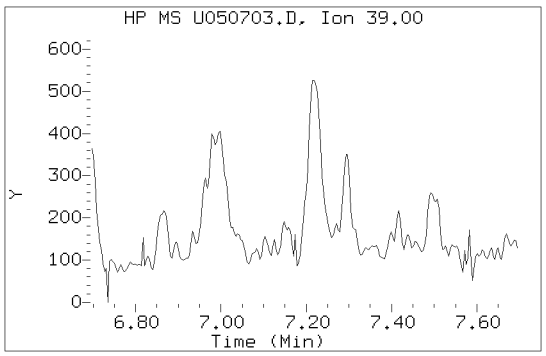
AFTER
MASS
77
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



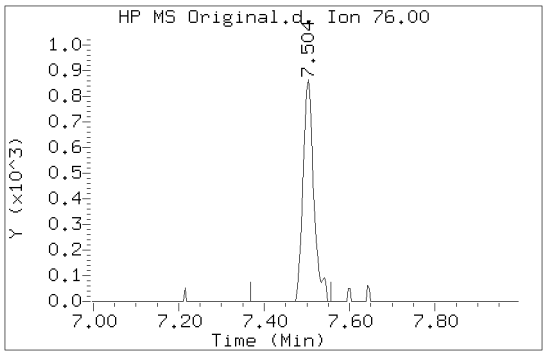
AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32



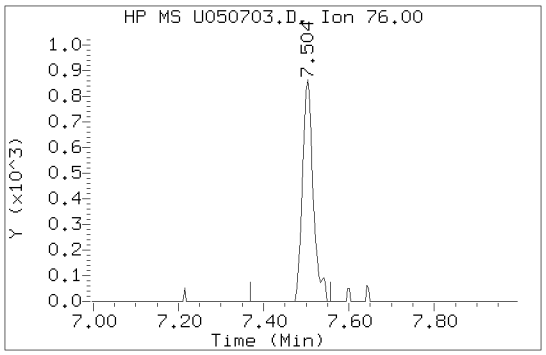
1,3-Dichloropropane (142-28-9)

Reason Code:

BEFORE
MASS
76
AREA
1525
HEIGHT
865
28-May-2024
09:17
tianna
smith



AFTER
MASS
76
AREA
1525
HEIGHT
865
28-May-2024
10:32



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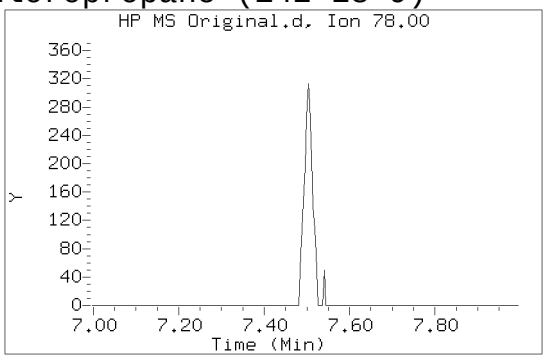
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

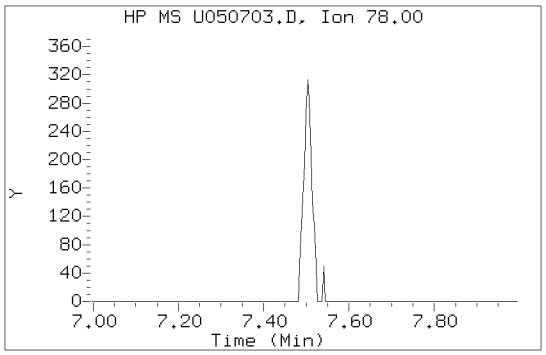
BEFORE

MASS
78
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
78
AREA
0
HEIGHT
0
28-May-2024
10:32

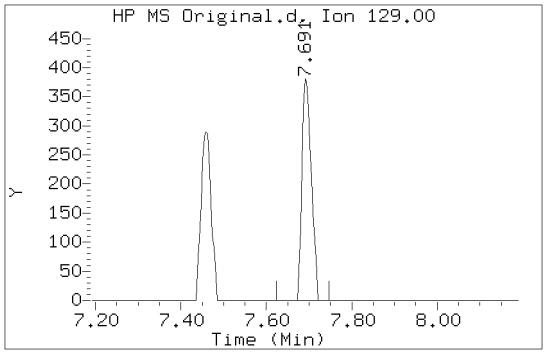


Dibromochloromethane (124-48-1)

Reason Code:

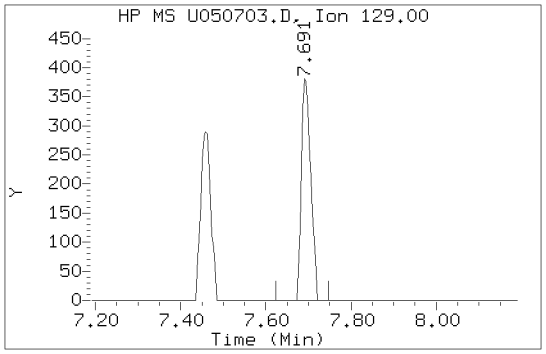
BEFORE

MASS
129
AREA
591
HEIGHT
381
28-May-2024
09:17
tianna
smith



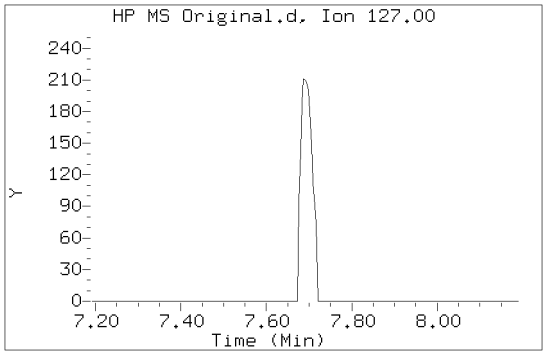
AFTER

MASS
129
AREA
591
HEIGHT
381
28-May-2024
10:32



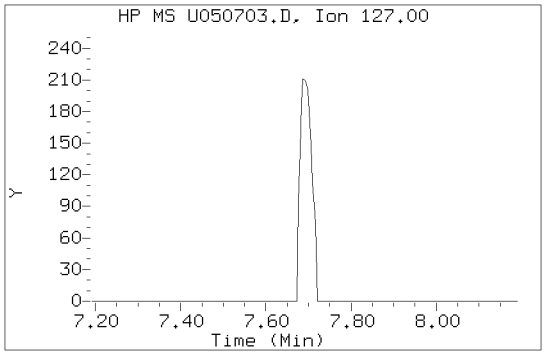
BEFORE

MASS
127
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
127
AREA
0
HEIGHT
0
28-May-2024
10:32

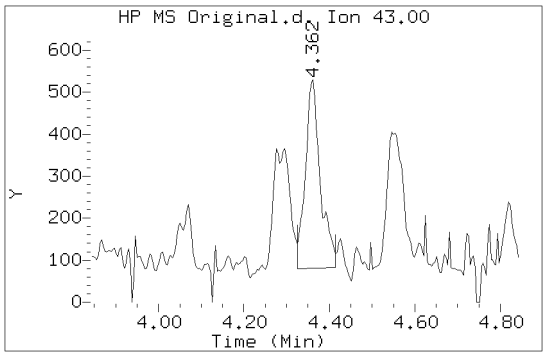


Vinyl Acetate (108-05-4)

Reason Code:

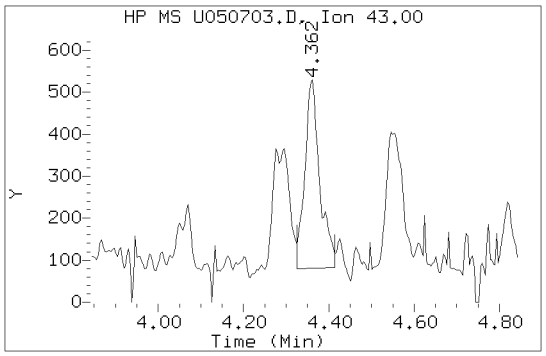
BEFORE

MASS
43
AREA
1116
HEIGHT
448
28-May-2024
09:17
tianna
smith



AFTER

MASS
43
AREA
1116
HEIGHT
448
28-May-2024
10:32



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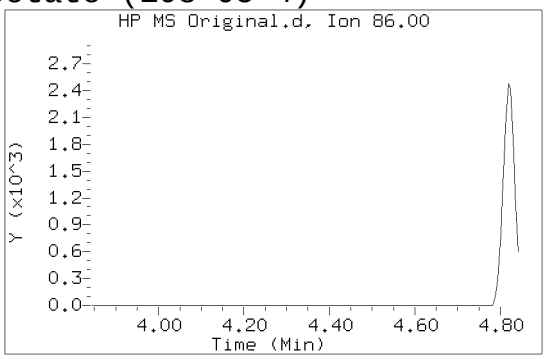
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

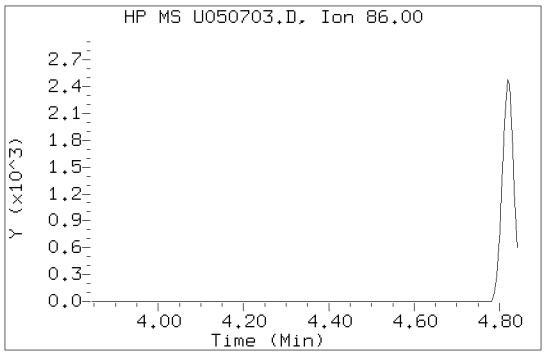
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



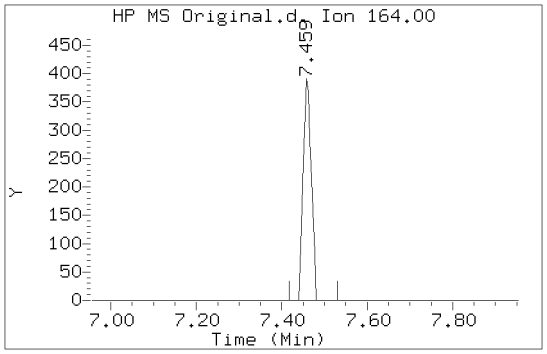
AFTER
MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32



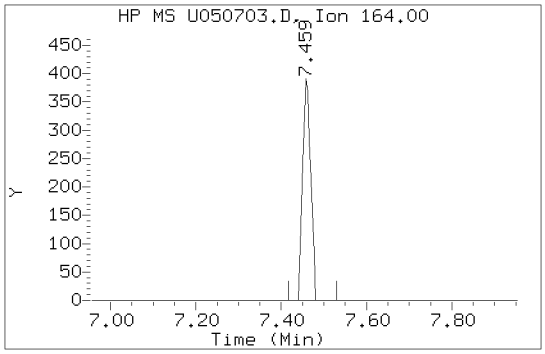
Tetrachloroethene (127-18-4)

Reason Code:

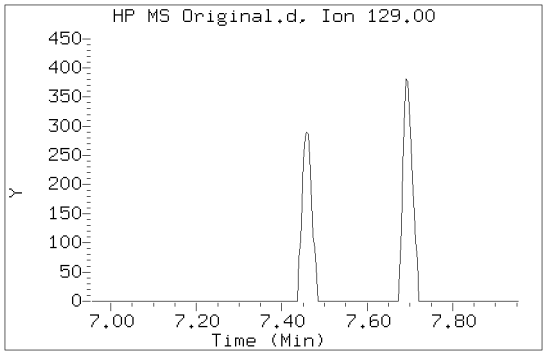
BEFORE
MASS
164
AREA
524
HEIGHT
391
28-May-2024
09:17
tianna
smith



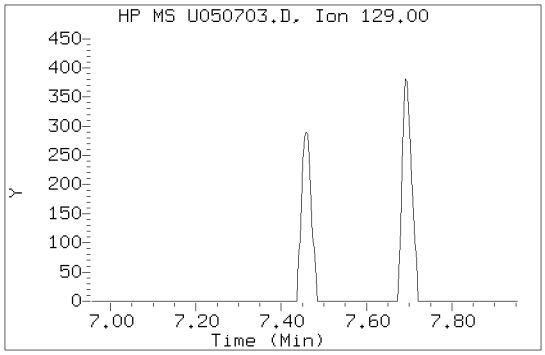
AFTER
MASS
164
AREA
524
HEIGHT
391
28-May-2024
10:32



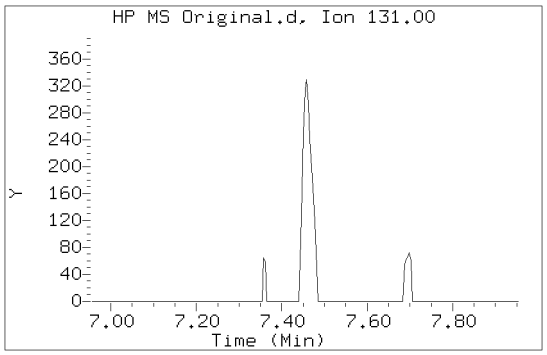
BEFORE
MASS
129
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



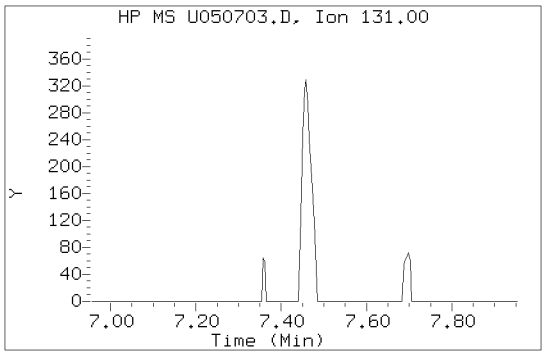
AFTER
MASS
129
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
131
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
131
AREA
0
HEIGHT
0
28-May-2024
10:32



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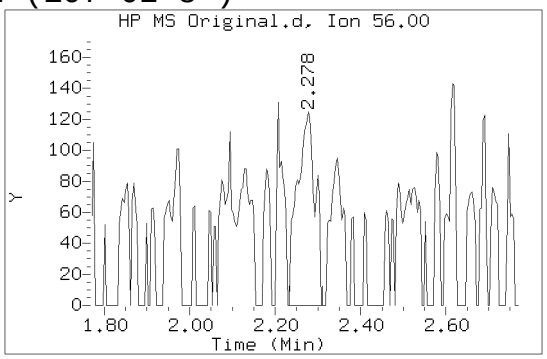
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

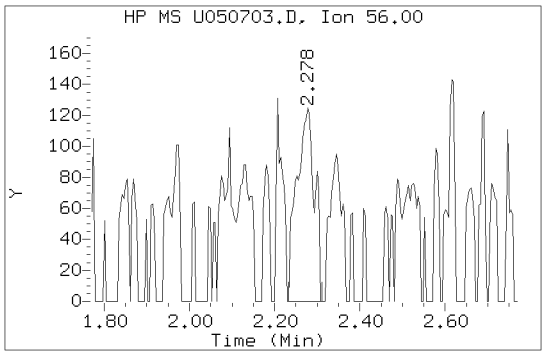
Acrolein (107-02-8)

Reason Code:

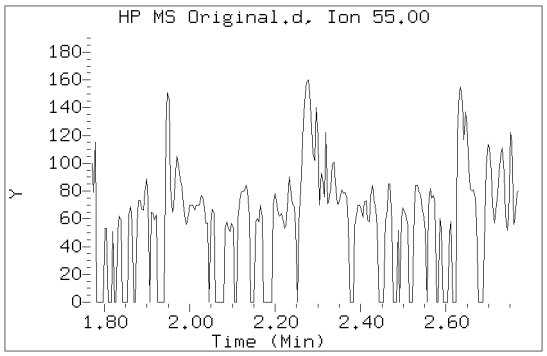
BEFORE
MASS
56
AREA
365
HEIGHT
125
28-May-2024
09:17
tianna
smith



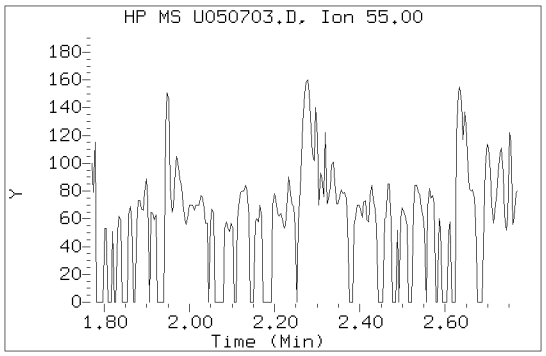
AFTER
MASS
56
AREA
365
HEIGHT
125
28-May-2024
10:32



BEFORE
MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



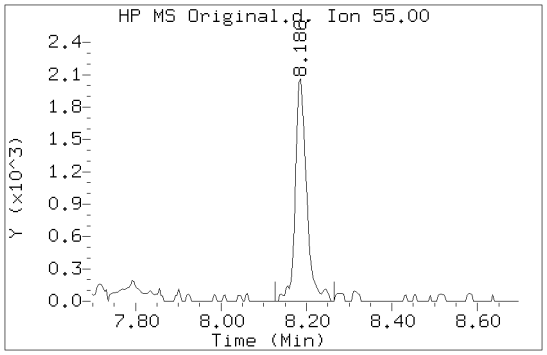
AFTER
MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32



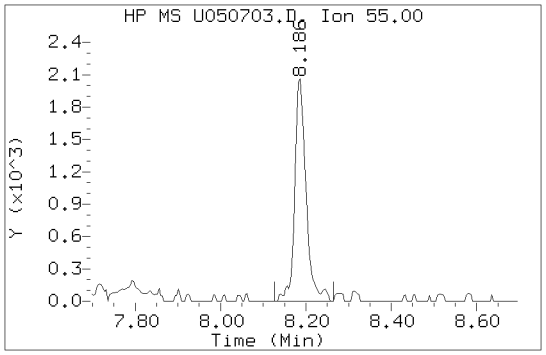
1-Chlorohexane (544-10-5)

Reason Code:

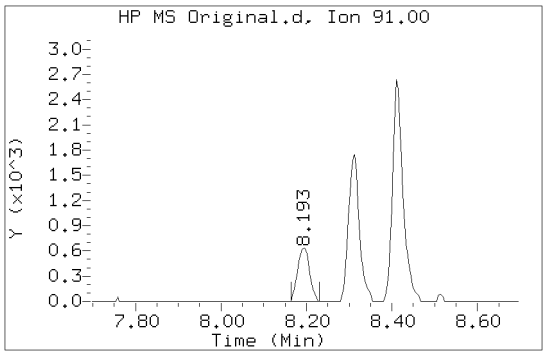
BEFORE
MASS
55
AREA
3861
HEIGHT
2061
28-May-2024
09:17
tianna
smith



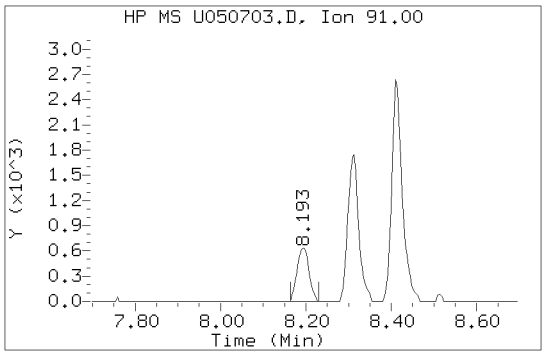
AFTER
MASS
55
AREA
3861
HEIGHT
2061
28-May-2024
10:32



BEFORE
MASS
91
AREA
1252
HEIGHT
631
28-May-2024
09:17
tianna
smith



AFTER
MASS
91
AREA
1252
HEIGHT
631
28-May-2024
10:32



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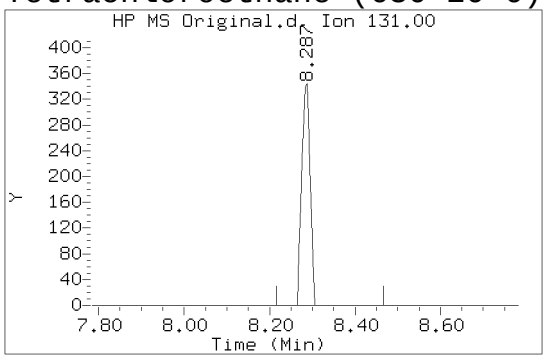
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

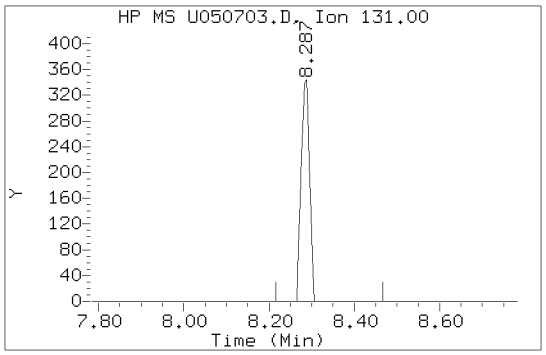
1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

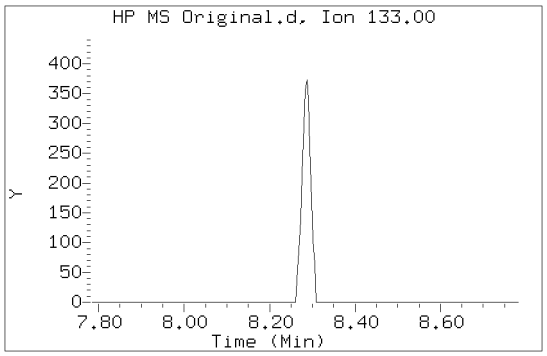
BEFORE
MASS
131
AREA
484
HEIGHT
344
28-May-2024
09:17
tianna
smith



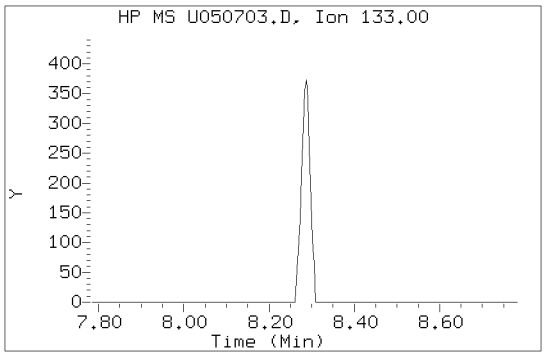
AFTER
MASS
131
AREA
484
HEIGHT
344
28-May-2024
10:32



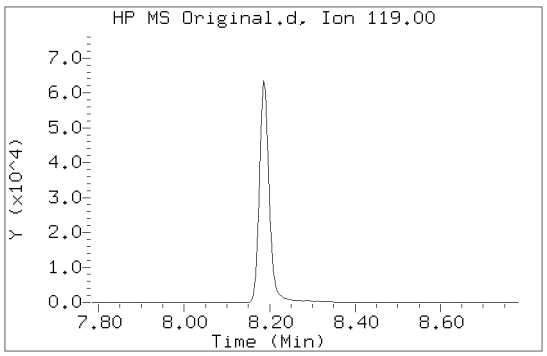
BEFORE
MASS
133
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



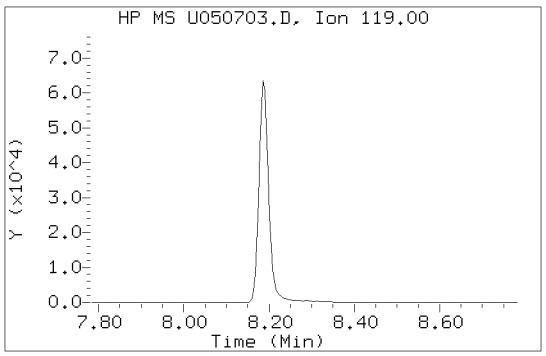
AFTER
MASS
133
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
119
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



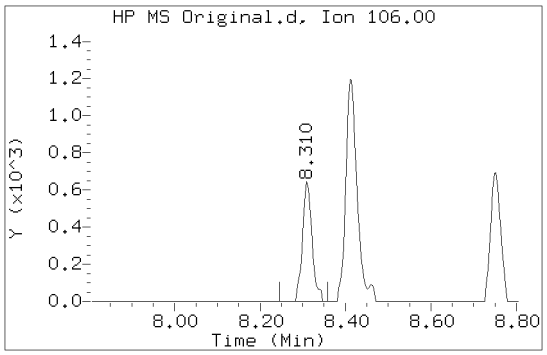
AFTER
MASS
119
AREA
0
HEIGHT
0
28-May-2024
10:32



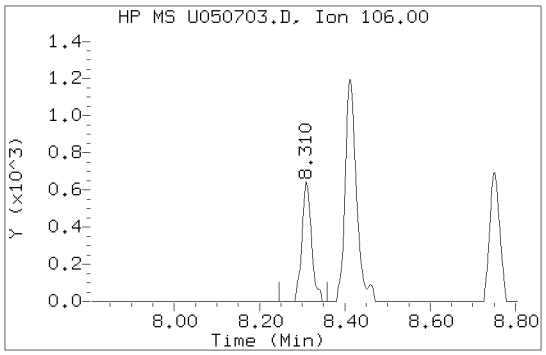
Ethylbenzene (100-41-4)

Reason Code:

BEFORE
MASS
106
AREA
1013
HEIGHT
644
28-May-2024
09:17
tianna
smith



AFTER
MASS
106
AREA
1013
HEIGHT
644
28-May-2024
10:32



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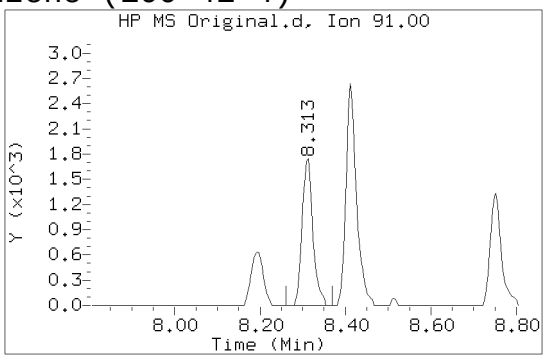
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

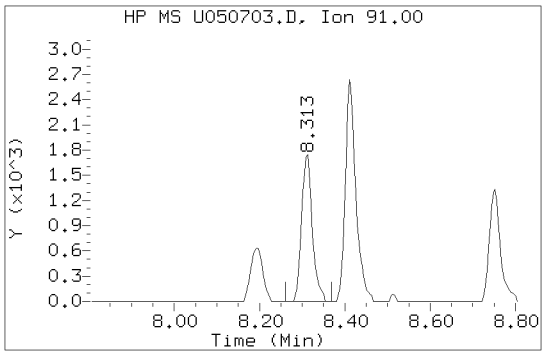
Ethylbenzene (100-41-4)

Reason Code:

BEFORE
MASS
91
AREA
3097
HEIGHT
1749
28-May-2024
09:17
tianna
smith



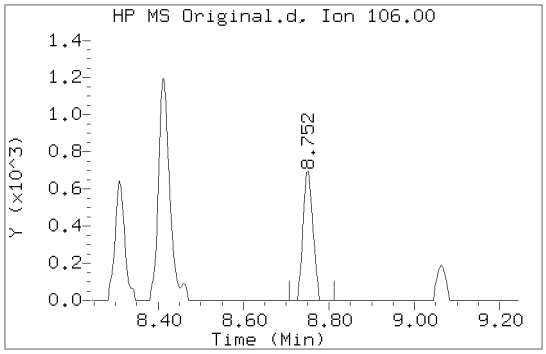
AFTER
MASS
91
AREA
3097
HEIGHT
1749
28-May-2024
10:32



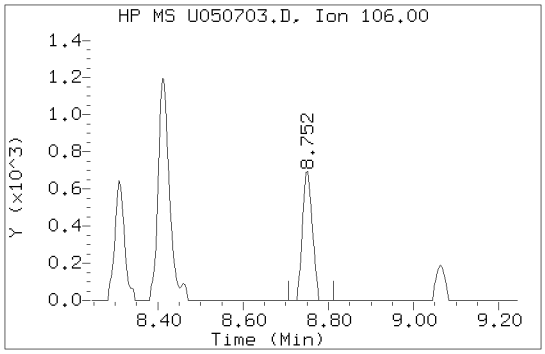
o-Xylene (95-47-6)

Reason Code:

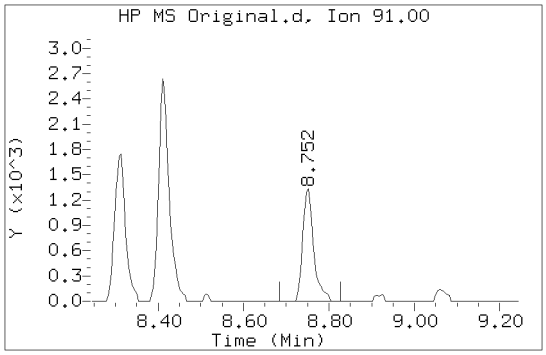
BEFORE
MASS
106
AREA
1129
HEIGHT
693
28-May-2024
09:17
tianna
smith



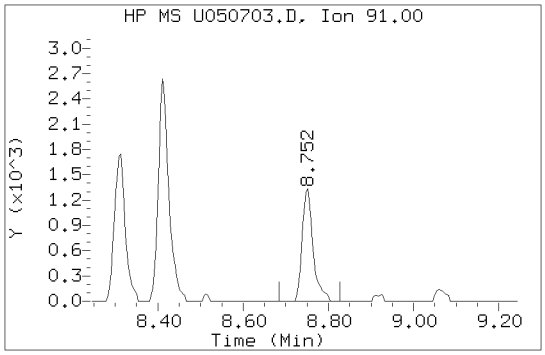
AFTER
MASS
106
AREA
1129
HEIGHT
693
28-May-2024
10:32



BEFORE
MASS
91
AREA
2403
HEIGHT
1335
28-May-2024
09:17
tianna
smith



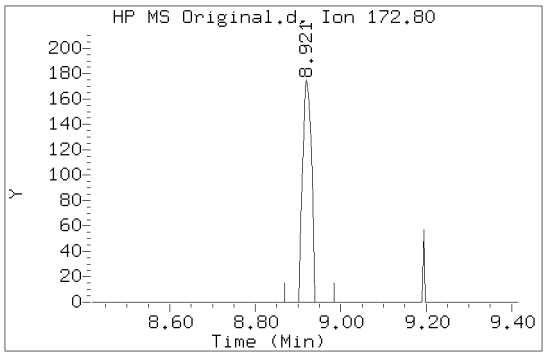
AFTER
MASS
91
AREA
2403
HEIGHT
1335
28-May-2024
10:32



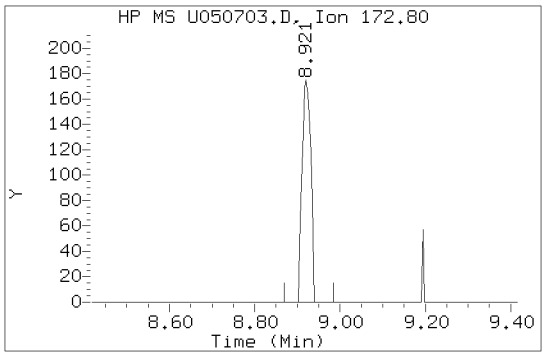
Bromoform (75-25-2)

Reason Code:

BEFORE
MASS
172.8
AREA
257
HEIGHT
175
28-May-2024
09:17
tianna
smith



AFTER
MASS
172.8
AREA
257
HEIGHT
175
28-May-2024
10:32



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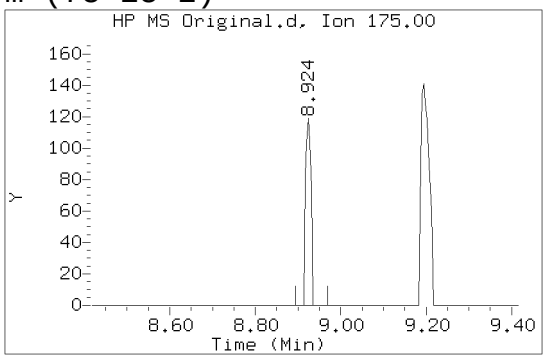
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

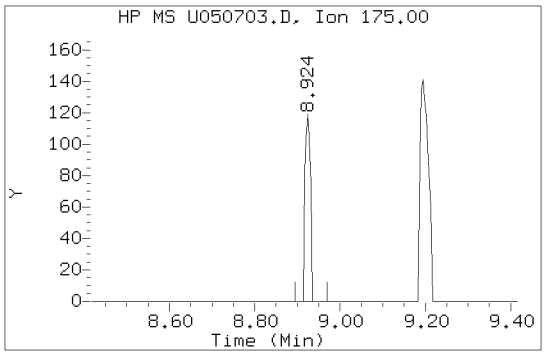
Bromoform (75-25-2)

Reason Code:

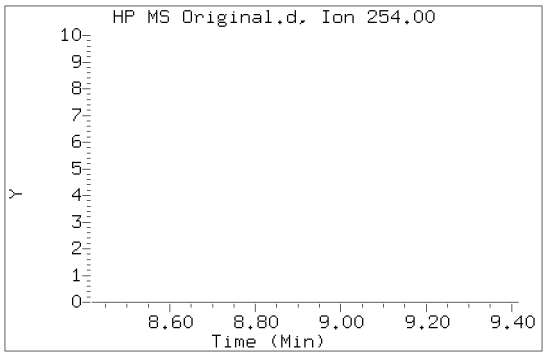
BEFORE
MASS
175
AREA
108
HEIGHT
119
28-May-2024
09:17
tianna
smith



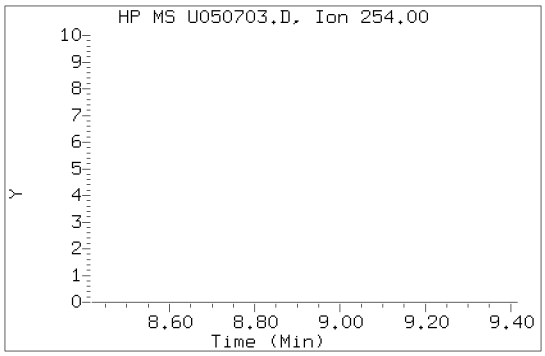
AFTER
MASS
175
AREA
108
HEIGHT
119
28-May-2024
10:32



BEFORE
MASS
254
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



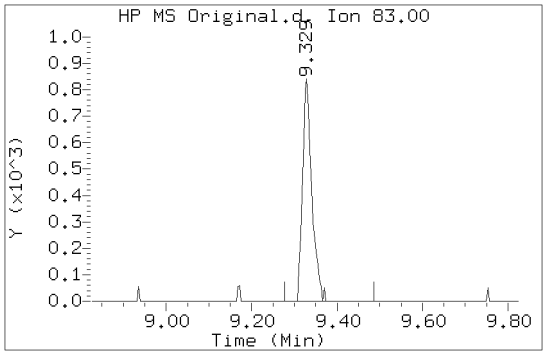
AFTER
MASS
254
AREA
0
HEIGHT
0
28-May-2024
10:32



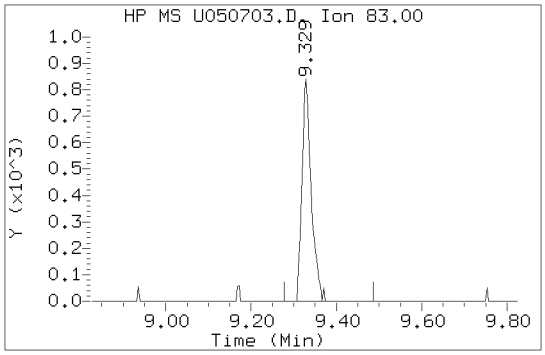
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

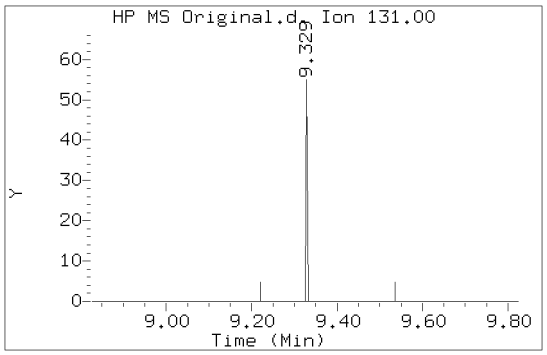
BEFORE
MASS
83
AREA
1306
HEIGHT
841
28-May-2024
09:17
tianna
smith



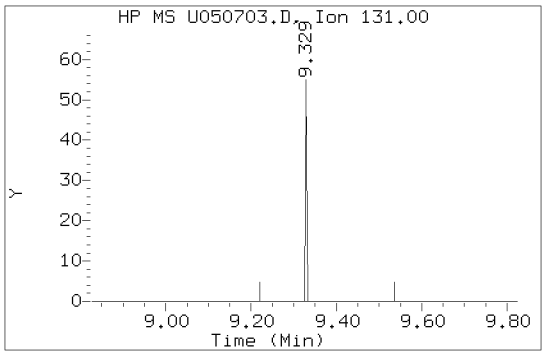
AFTER
MASS
83
AREA
1306
HEIGHT
841
28-May-2024
10:32



BEFORE
MASS
131
AREA
12
HEIGHT
55
28-May-2024
09:17
tianna
smith



AFTER
MASS
131
AREA
12
HEIGHT
55
28-May-2024
10:32



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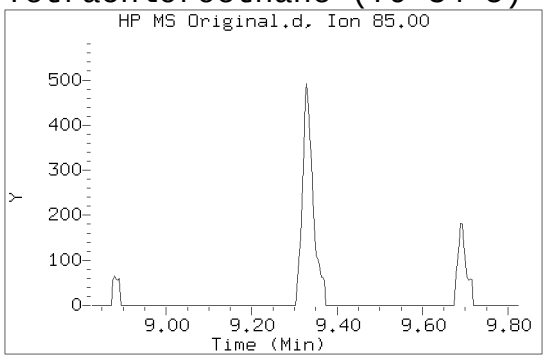
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

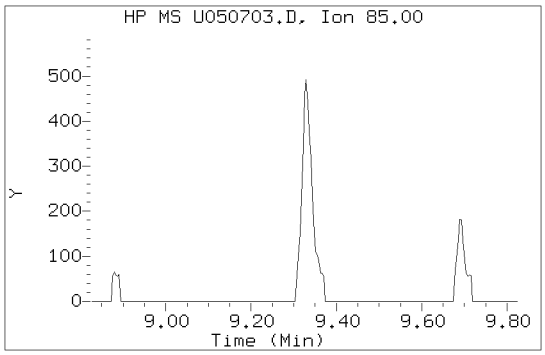
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE
MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



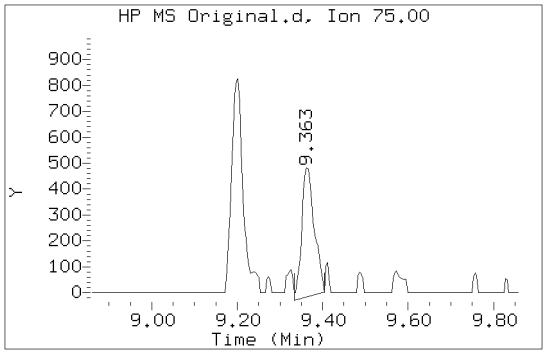
AFTER
MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32



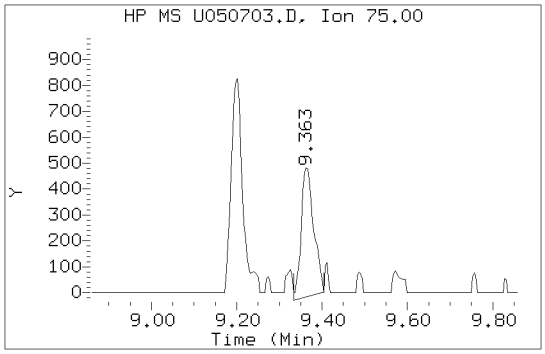
1,2,3-Trichloropropane (96-18-4)

Reason Code:

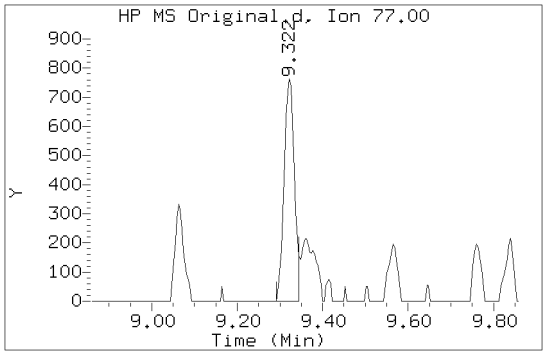
BEFORE
MASS
75
AREA
1035
HEIGHT
499
28-May-2024
09:17
tianna
smith



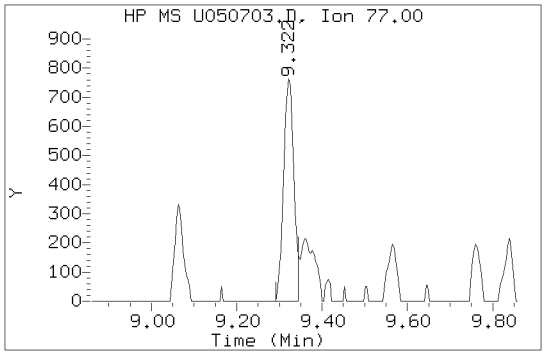
AFTER
MASS
75
AREA
1035
HEIGHT
499
28-May-2024
10:32



BEFORE
MASS
77
AREA
1283
HEIGHT
763
28-May-2024
09:17
tianna
smith



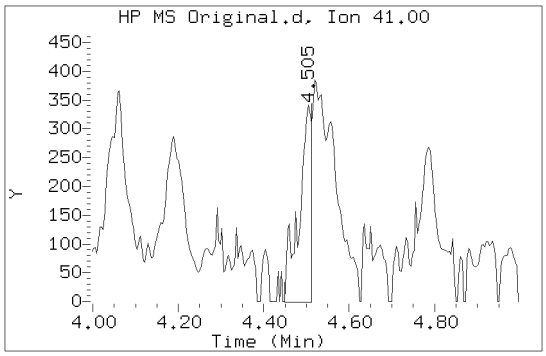
AFTER
MASS
77
AREA
1283
HEIGHT
763
28-May-2024
10:32



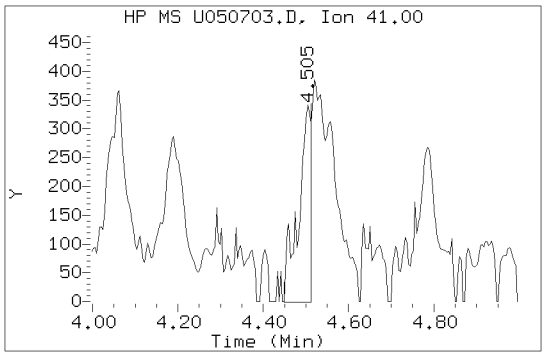
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
41
AREA
697
HEIGHT
343
28-May-2024
09:17
tianna
smith



AFTER
MASS
41
AREA
697
HEIGHT
343
28-May-2024
10:32



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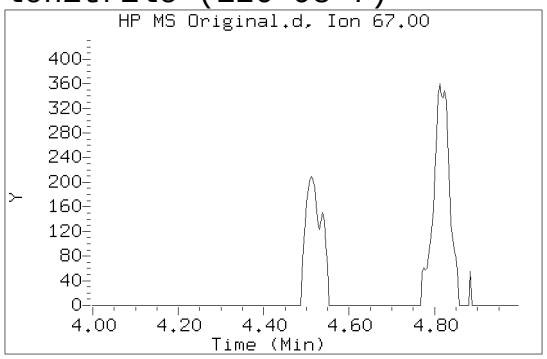
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

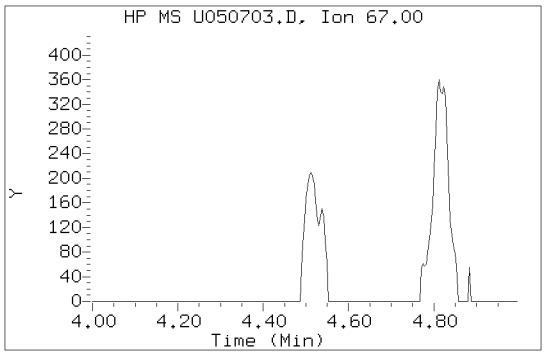
Methacrylonitrile (126-98-7)

Reason Code:

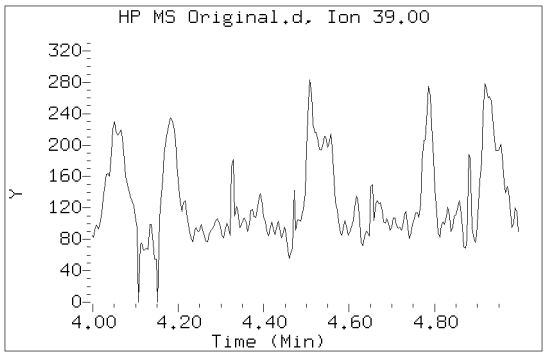
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



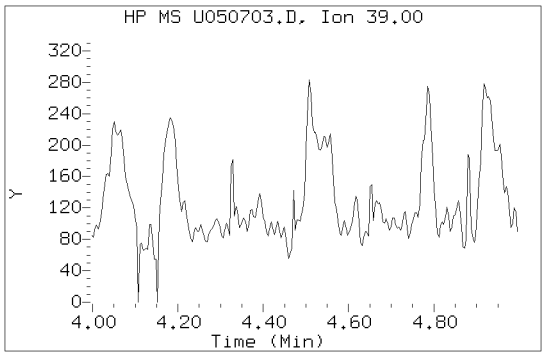
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
39
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



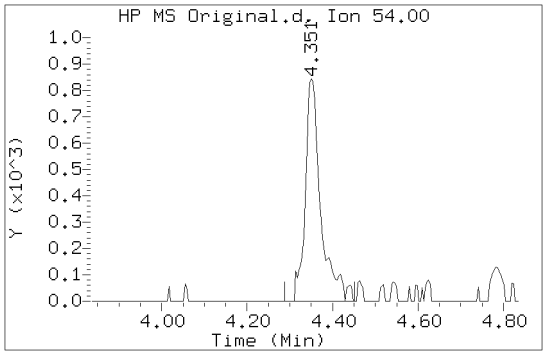
AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32



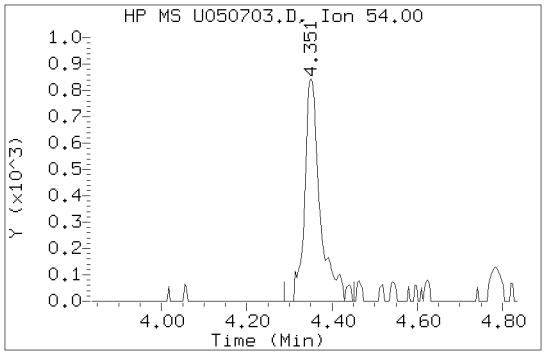
Propionitrile (107-12-0)

Reason Code:

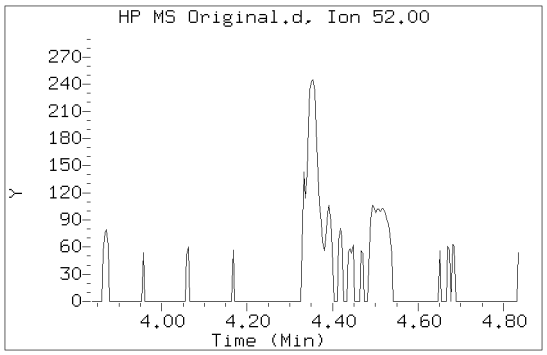
BEFORE
MASS
54
AREA
2175
HEIGHT
844
28-May-2024
09:17
tianna
smith



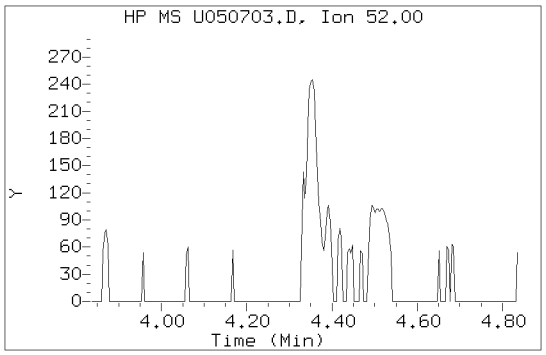
AFTER
MASS
54
AREA
2175
HEIGHT
844
28-May-2024
10:32



BEFORE
MASS
52
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
52
AREA
0
HEIGHT
0
28-May-2024
10:32



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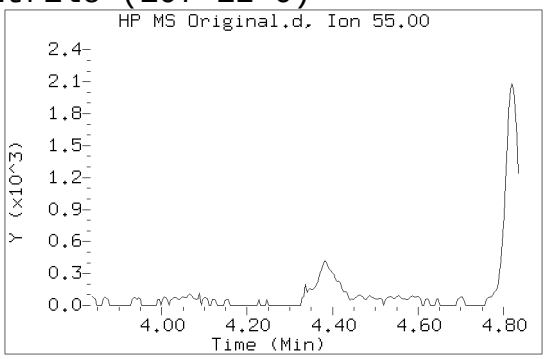
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

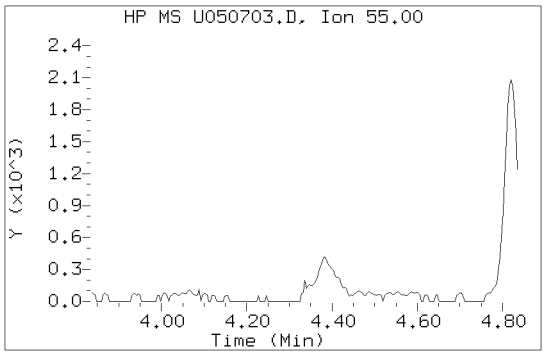
BEFORE

MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32

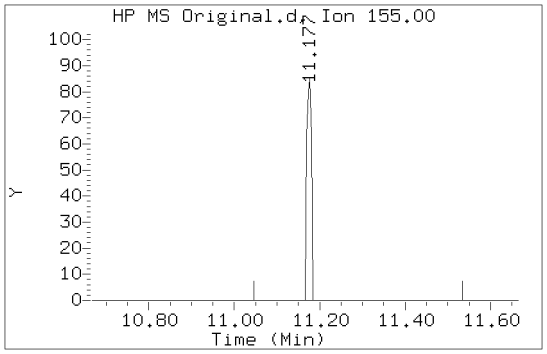


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

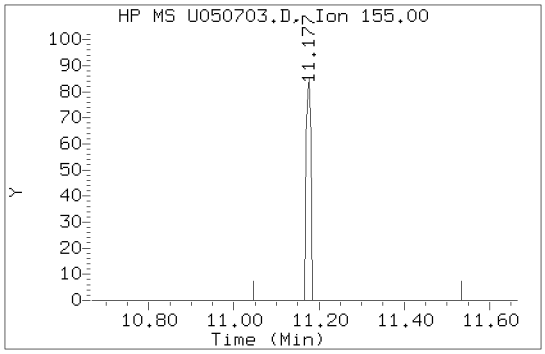
BEFORE

MASS
155
AREA
65
HEIGHT
85
28-May-2024
09:17
tianna
smith



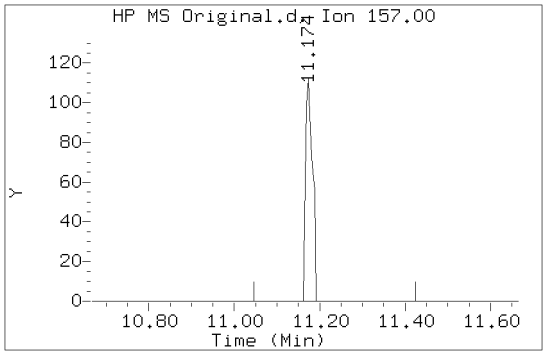
AFTER

MASS
155
AREA
65
HEIGHT
85
28-May-2024
10:32



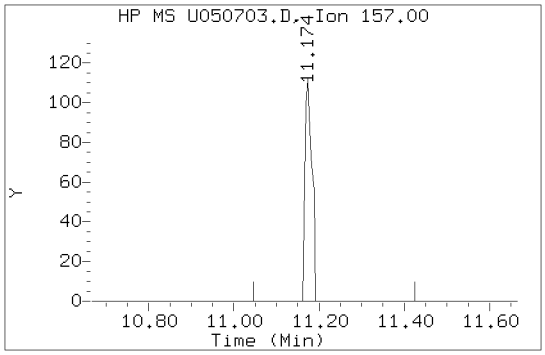
BEFORE

MASS
157
AREA
125
HEIGHT
112
28-May-2024
09:17
tianna
smith



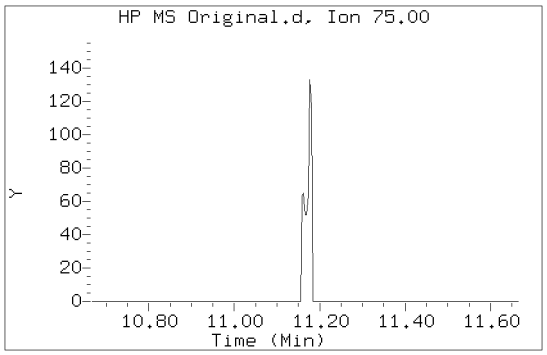
AFTER

MASS
157
AREA
125
HEIGHT
112
28-May-2024
10:32



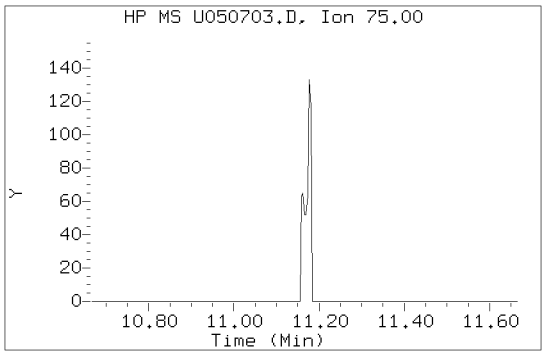
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32



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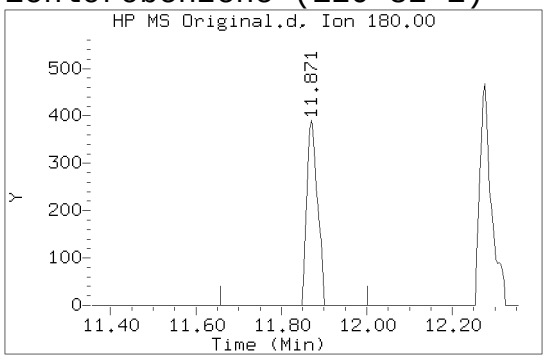
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

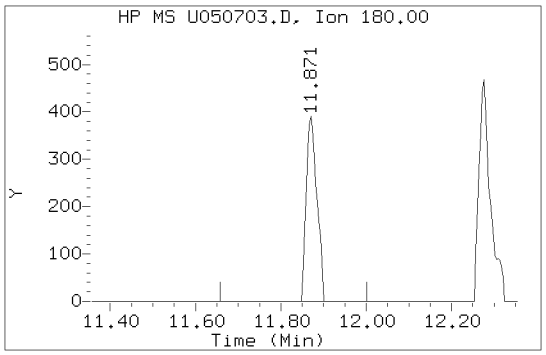
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

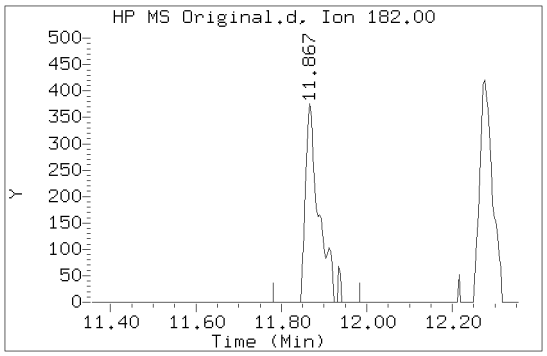
BEFORE
MASS
180
AREA
693
HEIGHT
391
28-May-2024
09:17
tianna
smith



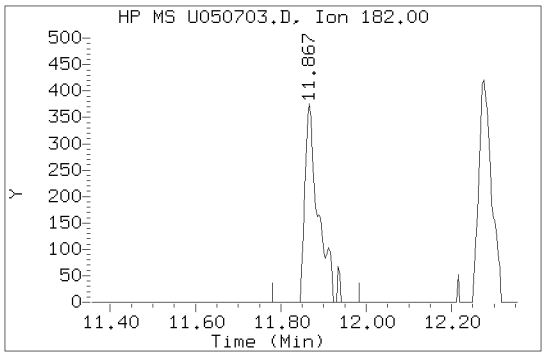
AFTER
MASS
180
AREA
693
HEIGHT
391
28-May-2024
10:32



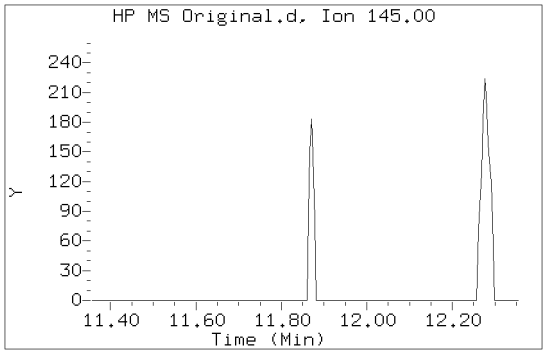
BEFORE
MASS
182
AREA
838
HEIGHT
376
28-May-2024
09:17
tianna
smith



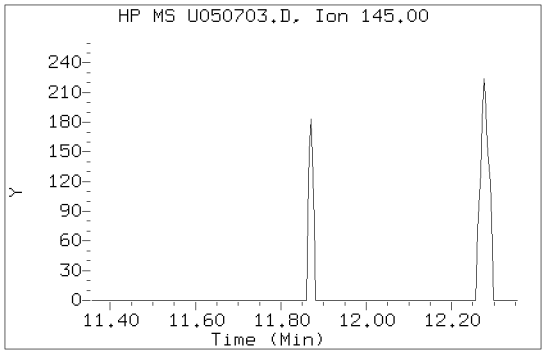
AFTER
MASS
182
AREA
838
HEIGHT
376
28-May-2024
10:32



BEFORE
MASS
145
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



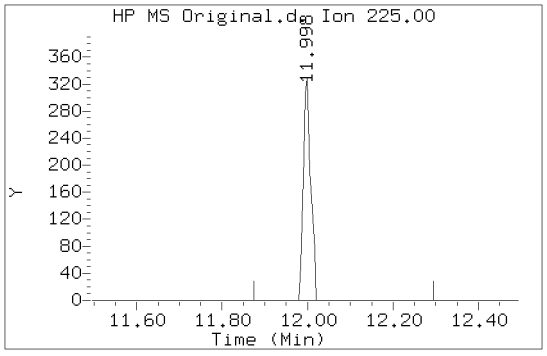
AFTER
MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32



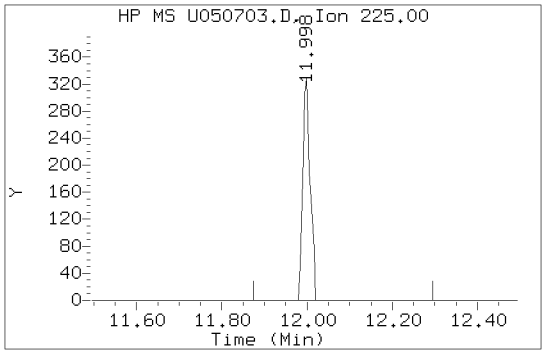
Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE
MASS
225
AREA
408
HEIGHT
328
28-May-2024
09:17
tianna
smith



AFTER
MASS
225
AREA
408
HEIGHT
328
28-May-2024
10:32



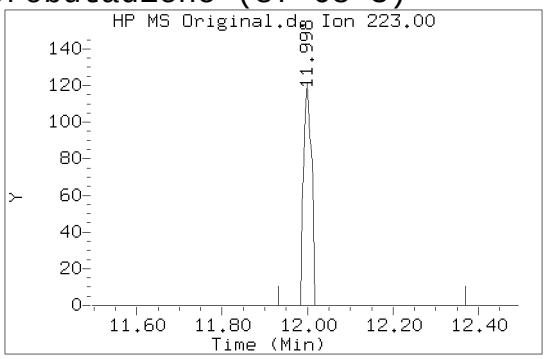
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

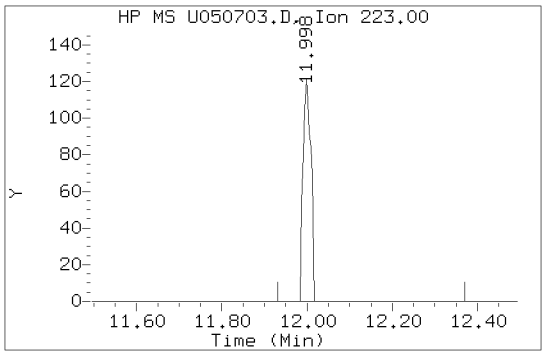
BEFORE

MASS
223
AREA
160
HEIGHT
121
28-May-2024
09:17
tianna
smith



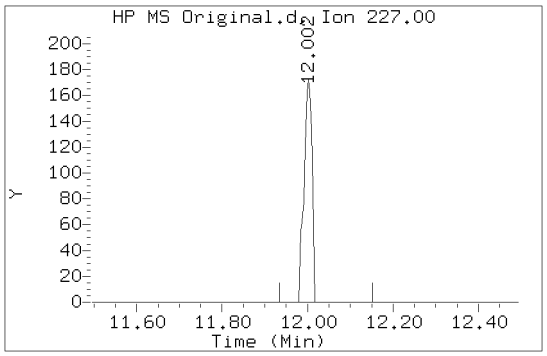
AFTER

MASS
223
AREA
160
HEIGHT
121
28-May-2024
10:32



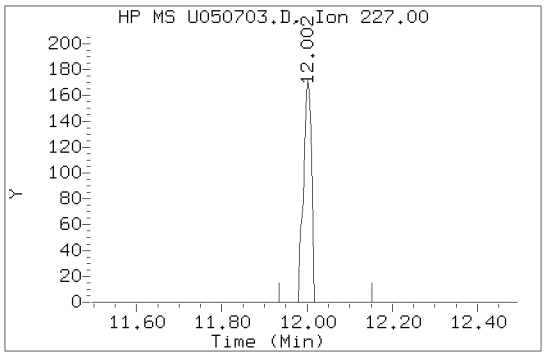
BEFORE

MASS
227
AREA
232
HEIGHT
172
28-May-2024
09:17
tianna
smith



AFTER

MASS
227
AREA
232
HEIGHT
172
28-May-2024
10:32

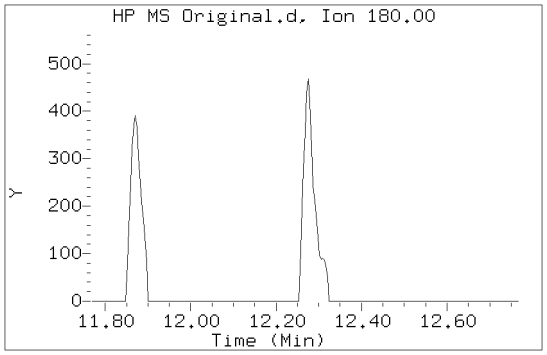


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

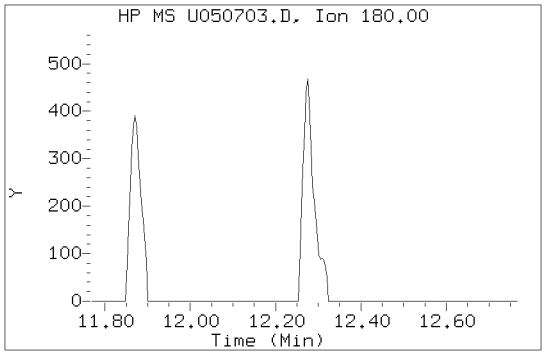
BEFORE

MASS
180
AREA
865
HEIGHT
468
28-May-2024
09:17
tianna
smith



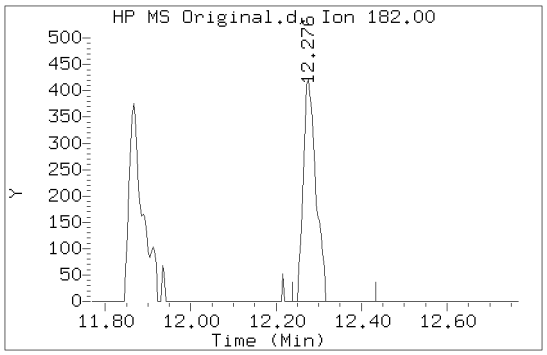
AFTER

MASS
180
AREA
865
HEIGHT
468
28-May-2024
10:32



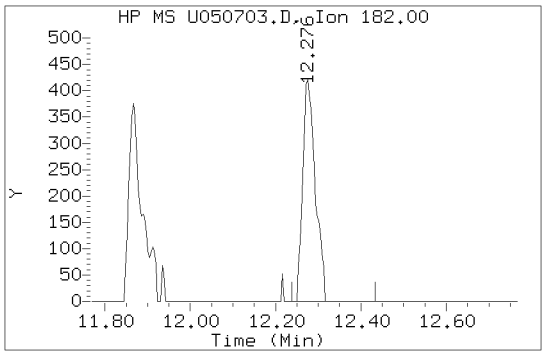
BEFORE

MASS
182
AREA
870
HEIGHT
421
28-May-2024
09:17
tianna
smith



AFTER

MASS
182
AREA
870
HEIGHT
421
28-May-2024
10:32



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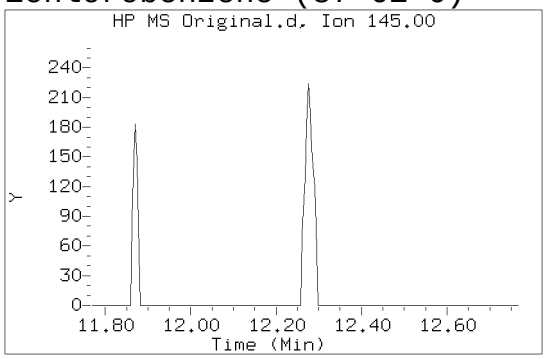
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

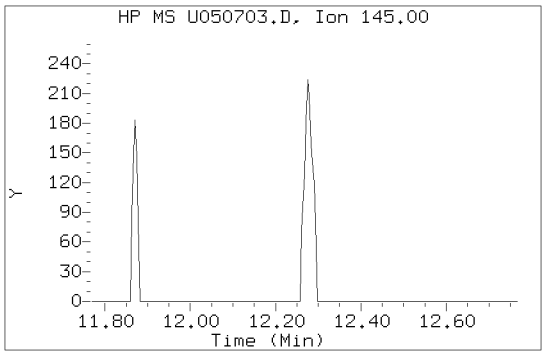
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
145
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



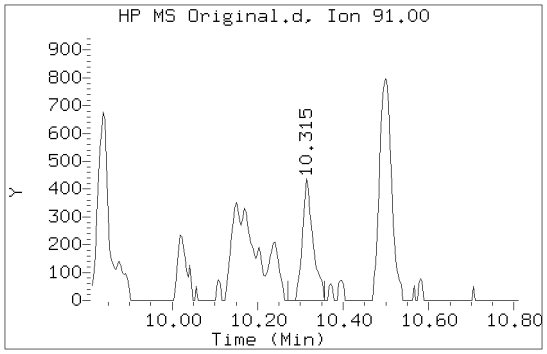
AFTER
MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32



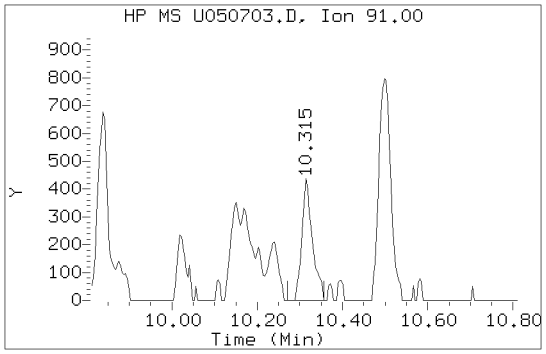
Benzyl Chloride (100-44-7)

Reason Code:

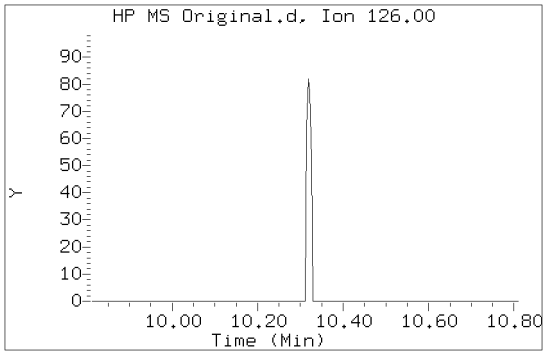
BEFORE
MASS
91
AREA
759
HEIGHT
438
28-May-2024
09:17
tianna
smith



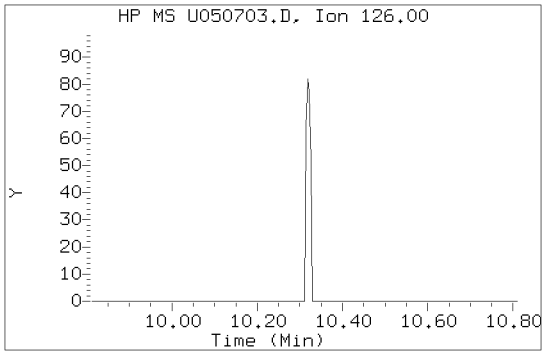
AFTER
MASS
91
AREA
759
HEIGHT
438
28-May-2024
10:32



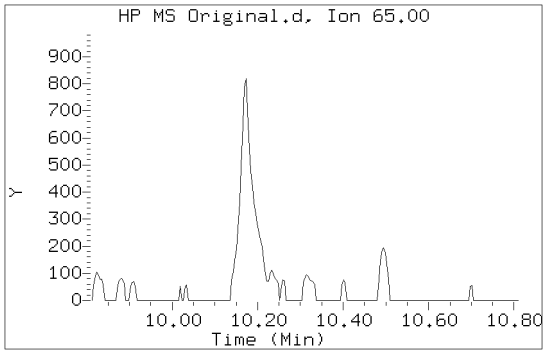
BEFORE
MASS
126
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



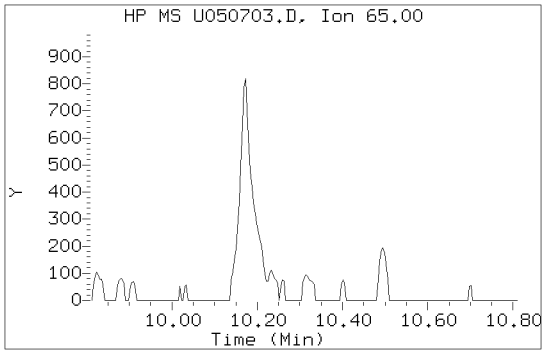
AFTER
MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
65
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32



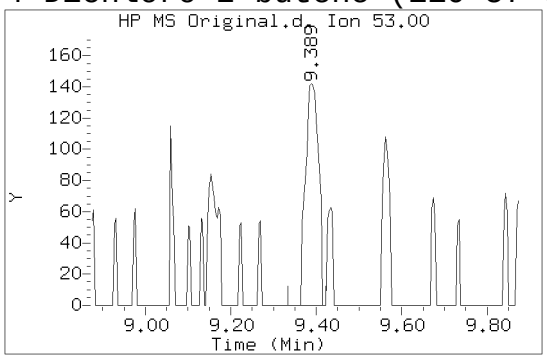
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

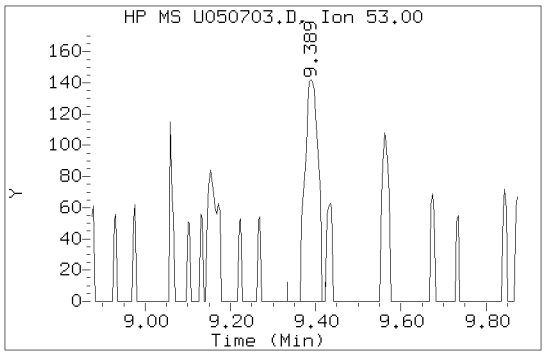
BEFORE

MASS
53
AREA
306
HEIGHT
142
28-May-2024
09:17
tianna
smith



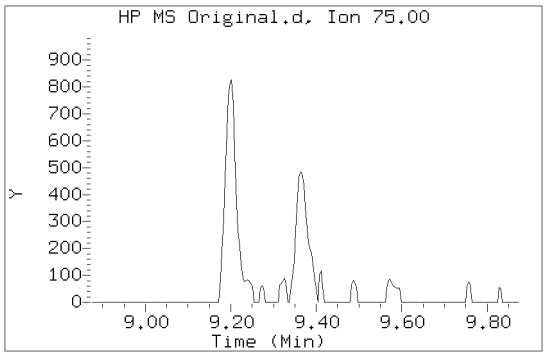
AFTER

MASS
53
AREA
306
HEIGHT
142
28-May-2024
10:32



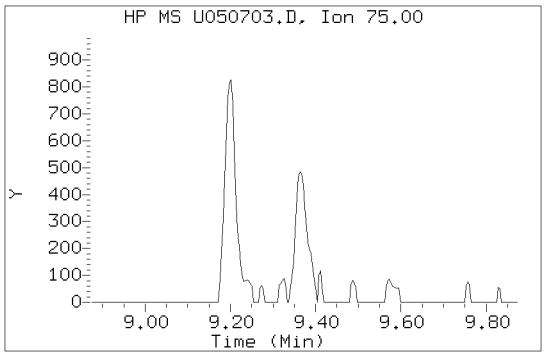
BEFORE

MASS
75
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32

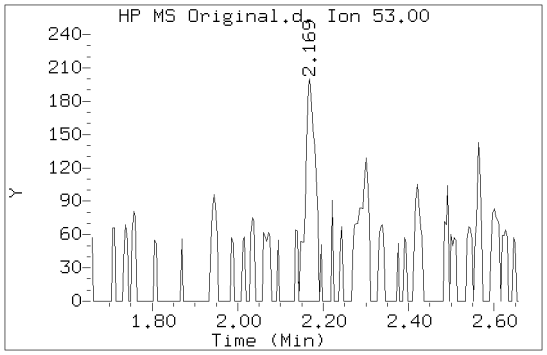


Chloroprene (126-99-8)

Reason Code:

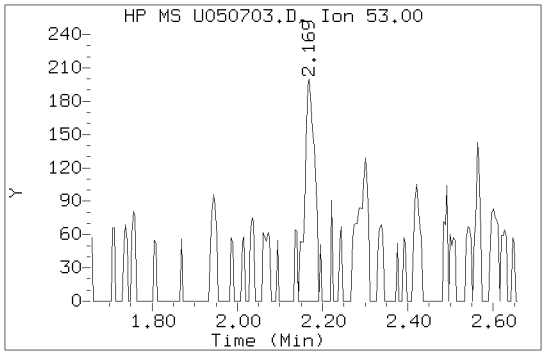
BEFORE

MASS
53
AREA
322
HEIGHT
200
28-May-2024
09:17
tianna
smith



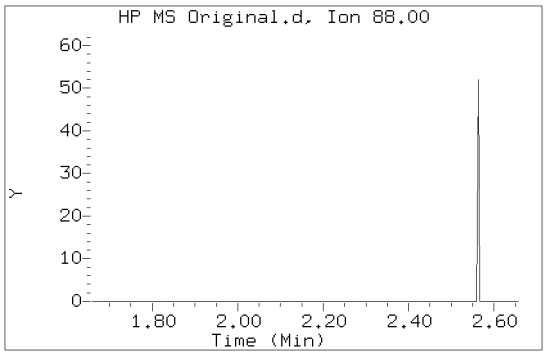
AFTER

MASS
53
AREA
322
HEIGHT
200
28-May-2024
10:32



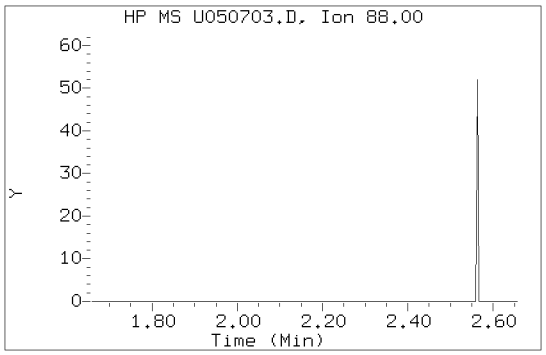
BEFORE

MASS
88
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32



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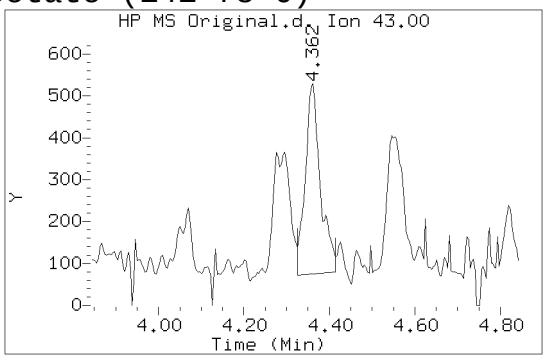
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

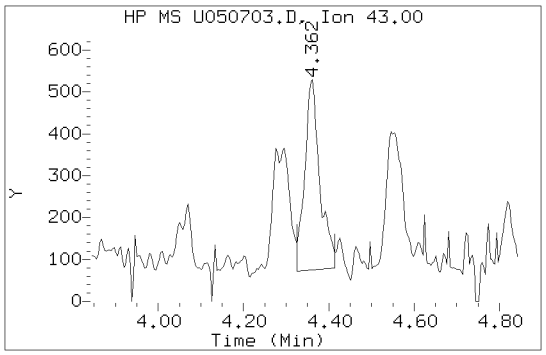
Ethyl Acetate (141-78-6)

Reason Code:

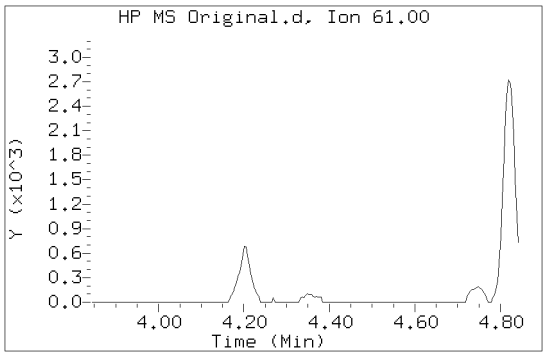
BEFORE
MASS
43
AREA
1144
HEIGHT
454
28-May-2024
09:17
tianna
smith



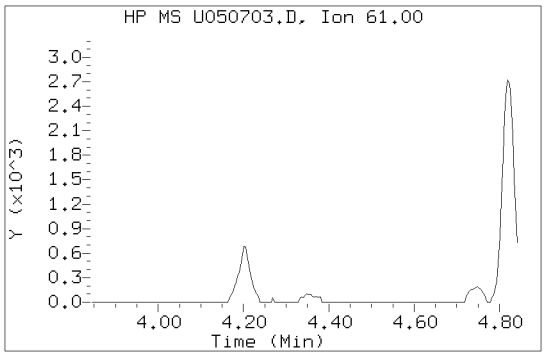
AFTER
MASS
43
AREA
1144
HEIGHT
454
28-May-2024
10:32



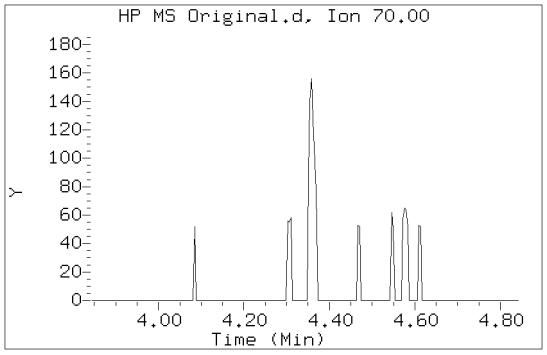
BEFORE
MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



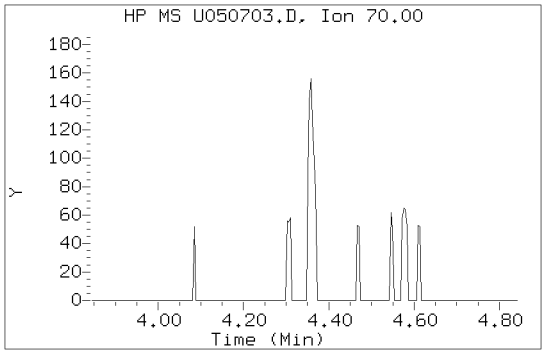
AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
70
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



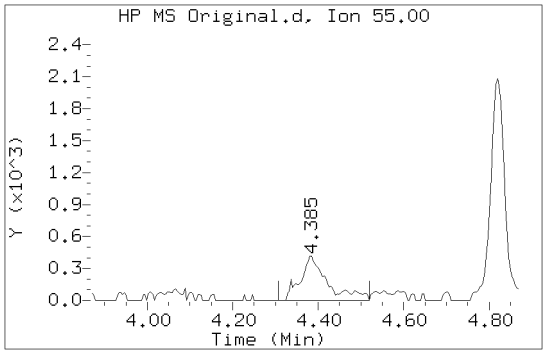
AFTER
MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32



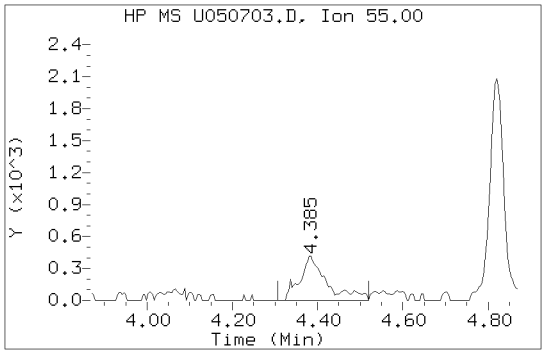
Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
1823
HEIGHT
418
28-May-2024
09:17
tianna
smith



AFTER
MASS
55
AREA
1823
HEIGHT
418
28-May-2024
10:32



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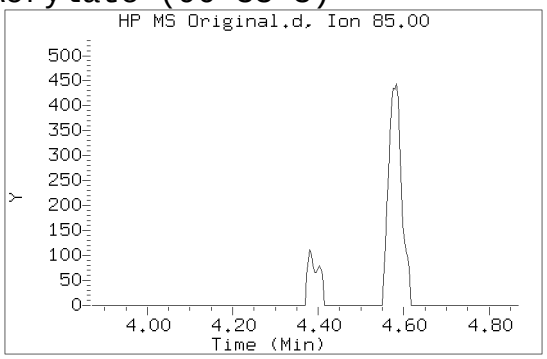
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

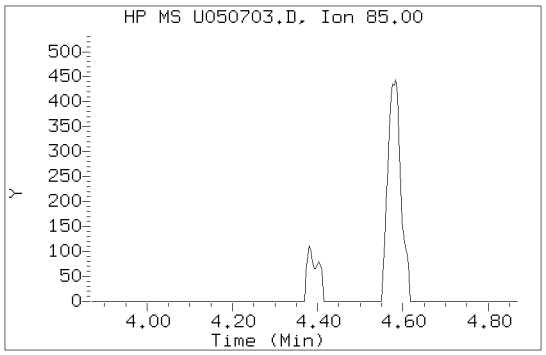
Methyl Acrylate (96-33-3)

BEFORE
MASS
85
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



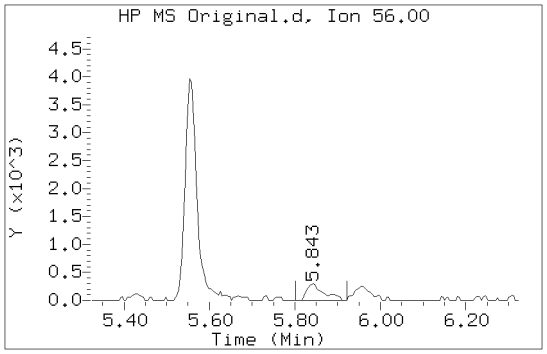
Reason Code:

AFTER
MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32



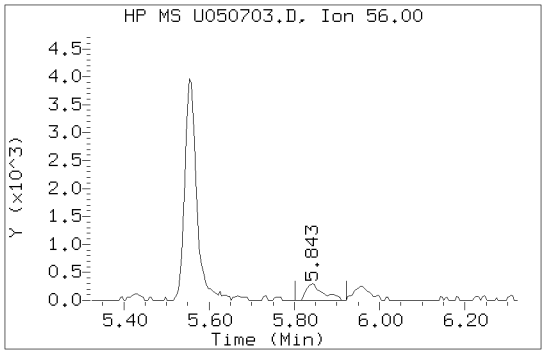
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
818
HEIGHT
299
28-May-2024
09:17
tianna
smith

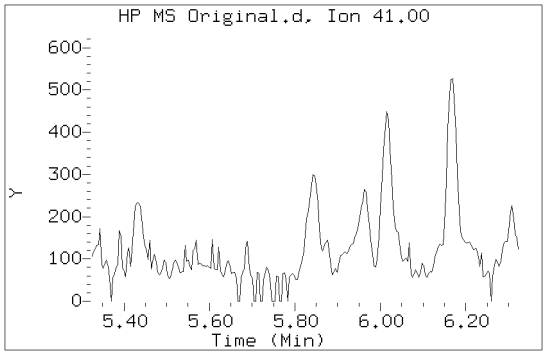


Reason Code:

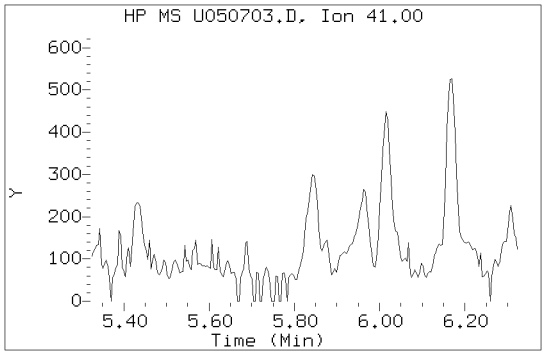
AFTER
MASS
56
AREA
818
HEIGHT
299
28-May-2024
10:32



BEFORE
MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith

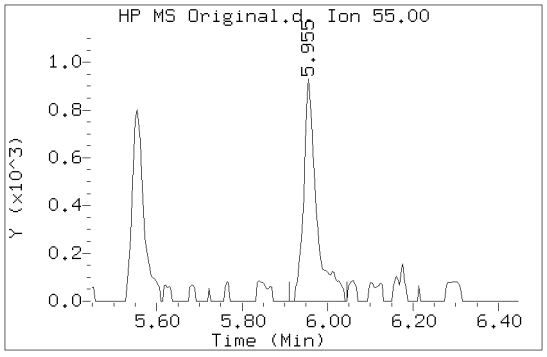


AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32



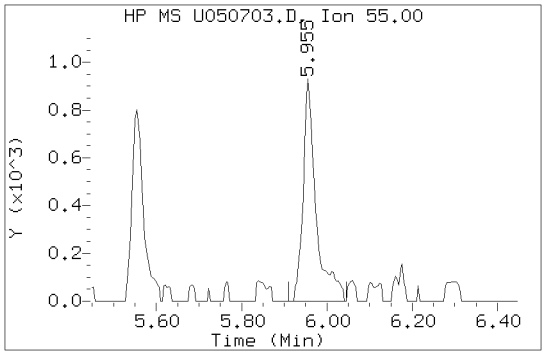
Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
2007
HEIGHT
930
28-May-2024
09:17
tianna
smith



Reason Code:

AFTER
MASS
55
AREA
2007
HEIGHT
930
28-May-2024
10:32

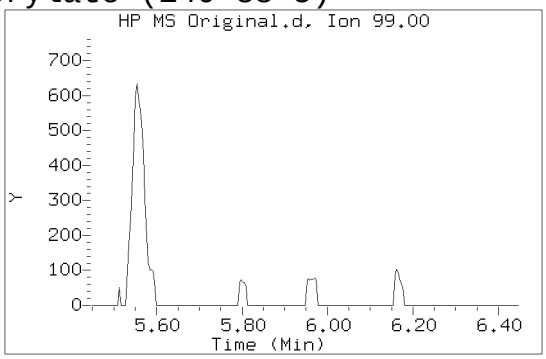


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

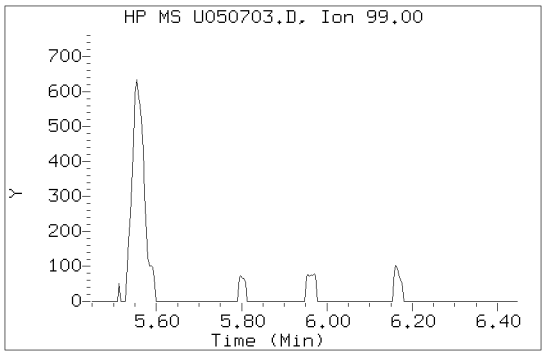
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
99
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



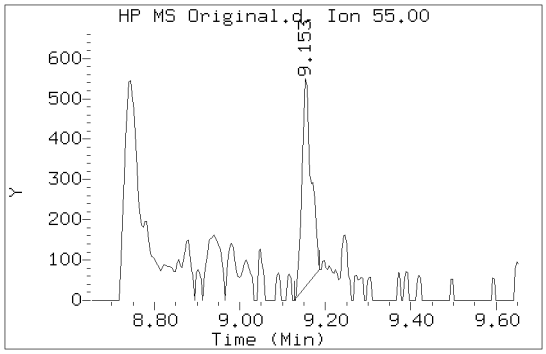
AFTER
MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32



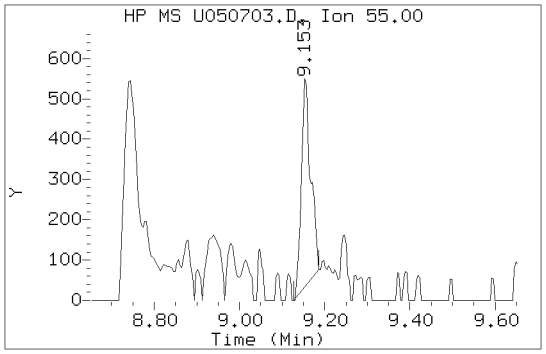
Cyclohexanone (108-94-1)

Reason Code:

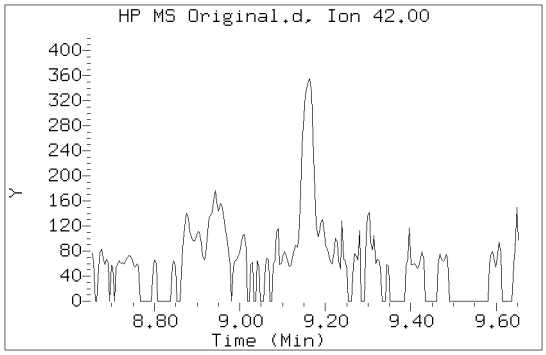
BEFORE
MASS
55
AREA
789
HEIGHT
516
28-May-2024
09:17
tianna
smith



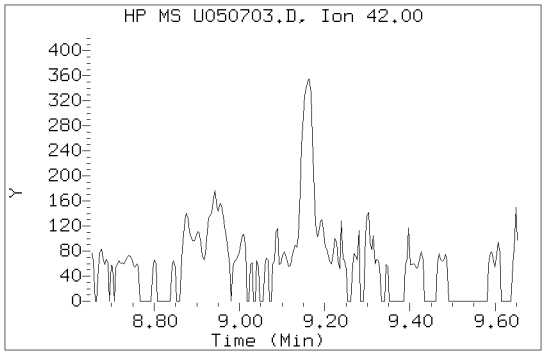
AFTER
MASS
55
AREA
789
HEIGHT
516
28-May-2024
10:32



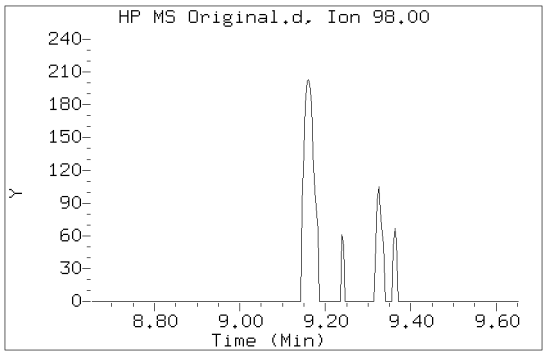
BEFORE
MASS
42
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



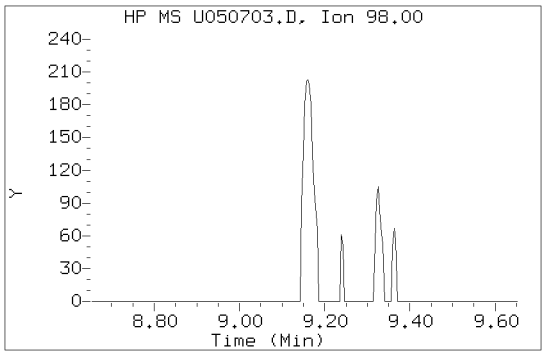
AFTER
MASS
42
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
98
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
98
AREA
0
HEIGHT
0
28-May-2024
10:32



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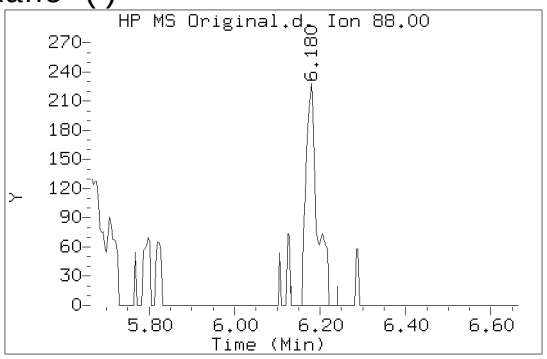
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

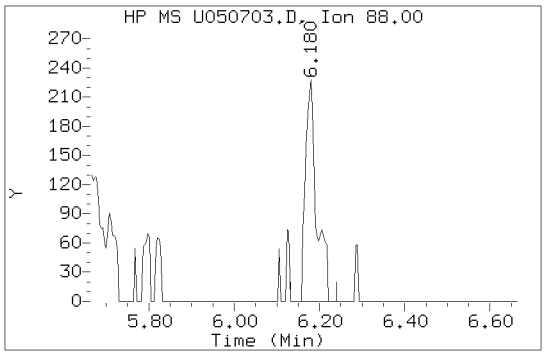
1,4-Dioxane ()

Reason Code:

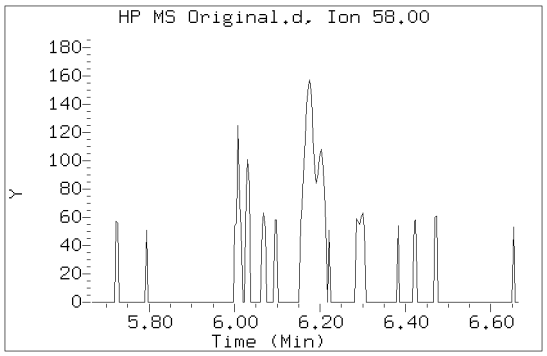
BEFORE
MASS
88
AREA
412
HEIGHT
228
28-May-2024
09:17
tianna
smith



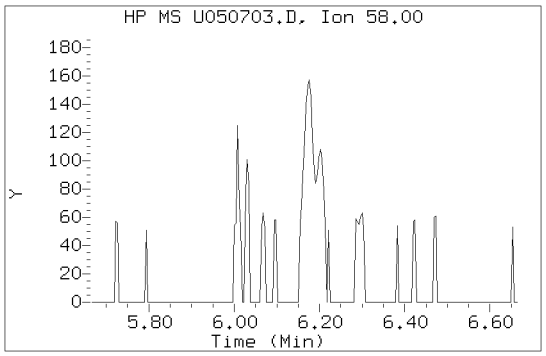
AFTER
MASS
88
AREA
412
HEIGHT
228
28-May-2024
10:32



BEFORE
MASS
58
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



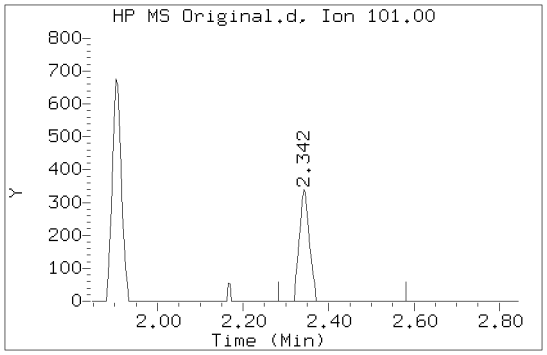
AFTER
MASS
58
AREA
0
HEIGHT
0
28-May-2024
10:32



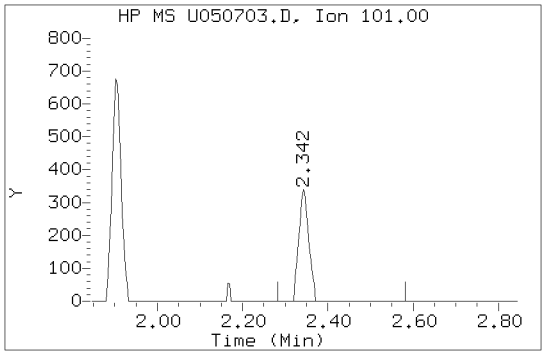
Freon TF (76-13-1)

Reason Code:

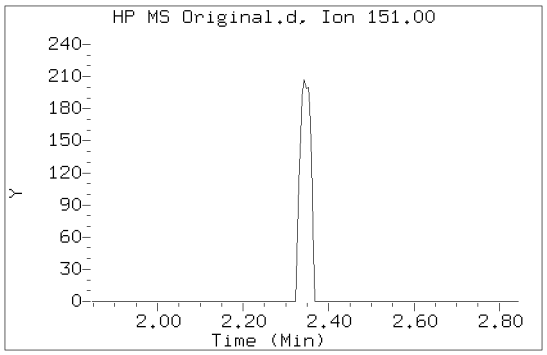
BEFORE
MASS
101
AREA
567
HEIGHT
341
28-May-2024
09:17
tianna
smith



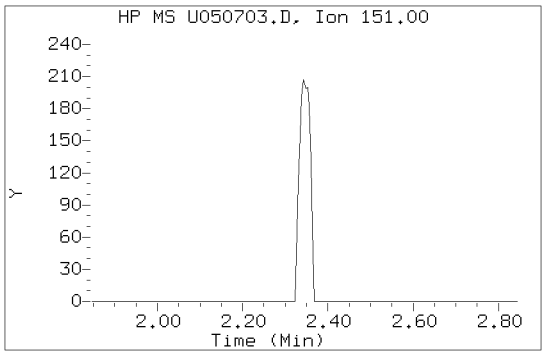
AFTER
MASS
101
AREA
567
HEIGHT
341
28-May-2024
10:32



BEFORE
MASS
151
AREA
385
HEIGHT
207
28-May-2024
09:17
tianna
smith



AFTER
MASS
151
AREA
385
HEIGHT
207
28-May-2024
10:32



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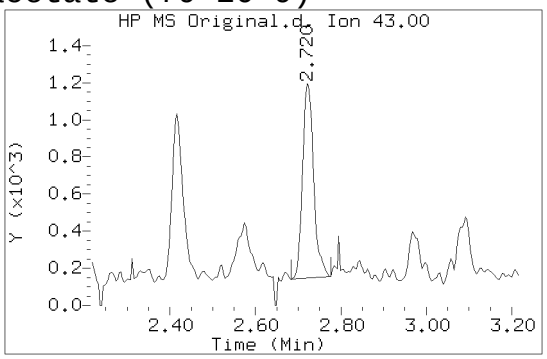
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

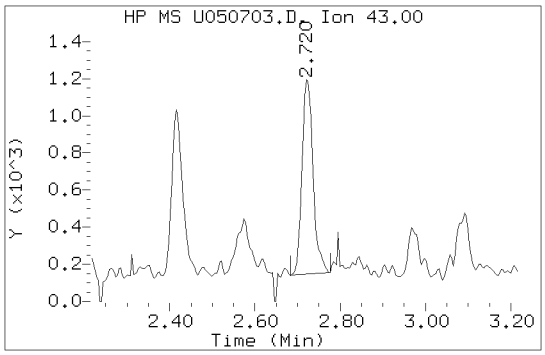
Methyl acetate (79-20-9)

Reason Code:

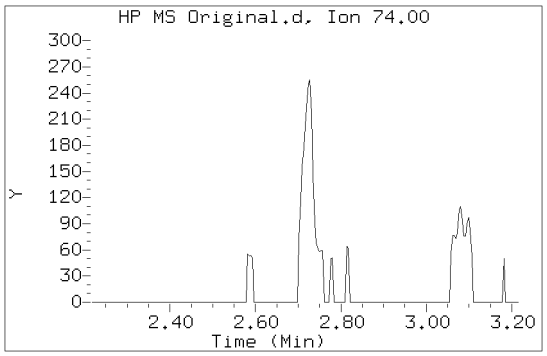
BEFORE
MASS
43
AREA
1937
HEIGHT
1048
28-May-2024
09:17
tianna
smith



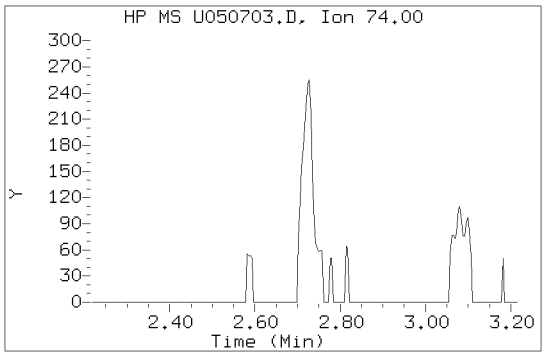
AFTER
MASS
43
AREA
1937
HEIGHT
1048
28-May-2024
10:32



BEFORE
MASS
74
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



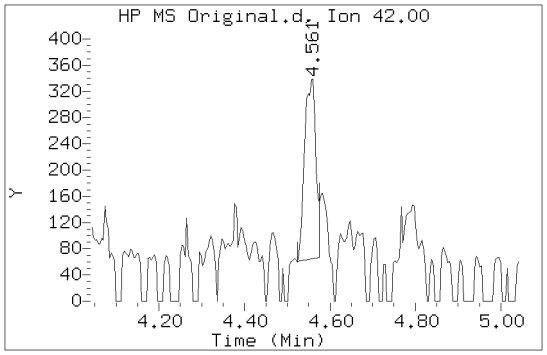
AFTER
MASS
74
AREA
0
HEIGHT
0
28-May-2024
10:32



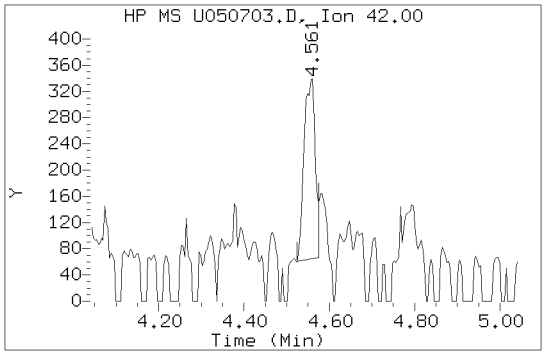
Tetrahydrofuran (109-99-9)

Reason Code:

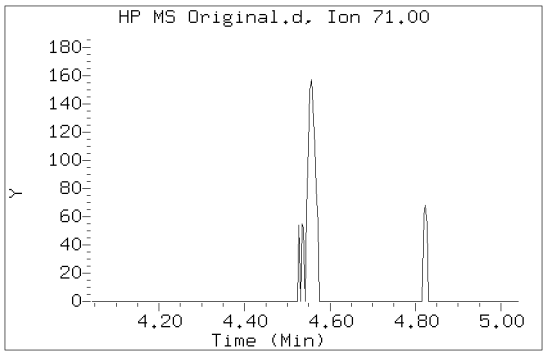
BEFORE
MASS
42
AREA
509
HEIGHT
273
28-May-2024
09:17
tianna
smith



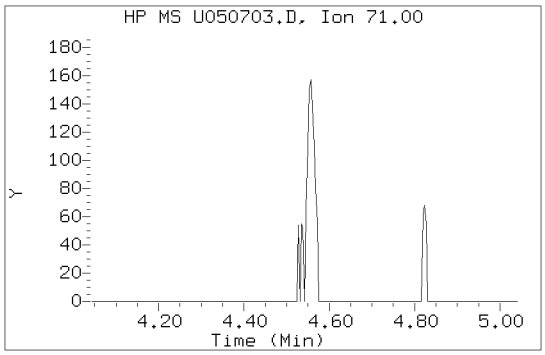
AFTER
MASS
42
AREA
509
HEIGHT
273
28-May-2024
10:32



BEFORE
MASS
71
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
71
AREA
0
HEIGHT
0
28-May-2024
10:32



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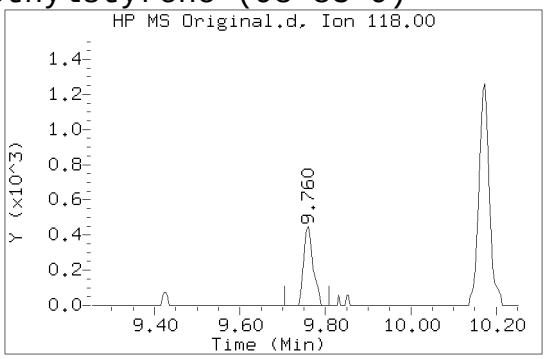
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

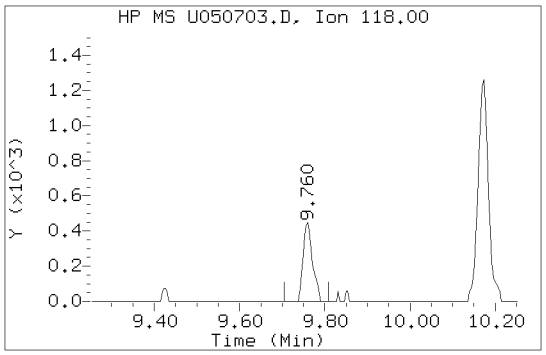
alpha-Methylstyrene (98-83-9)

Reason Code:

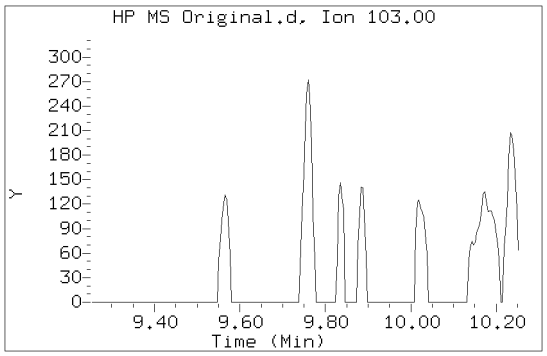
BEFORE
MASS
118
AREA
706
HEIGHT
448
28-May-2024
09:17
tianna
smith



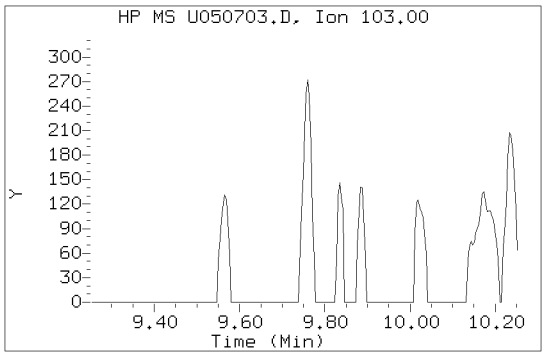
AFTER
MASS
118
AREA
706
HEIGHT
448
28-May-2024
10:32



BEFORE
MASS
103
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



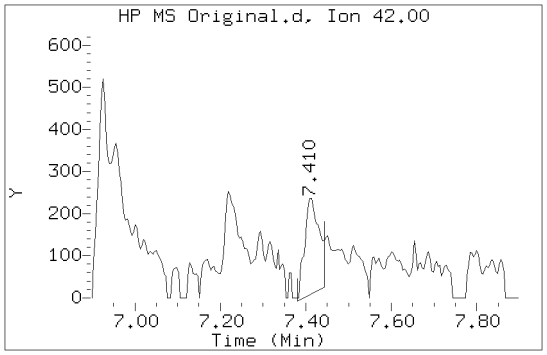
AFTER
MASS
103
AREA
0
HEIGHT
0
28-May-2024
10:32



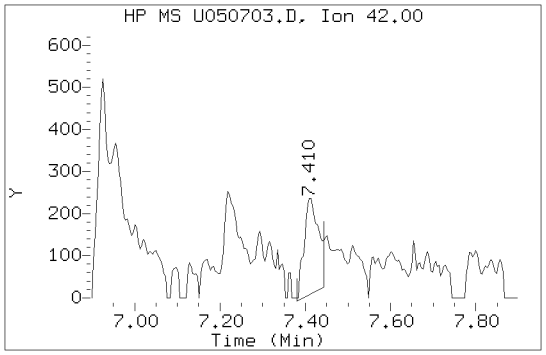
Amyl alcohol (71-41-0)

Reason Code:

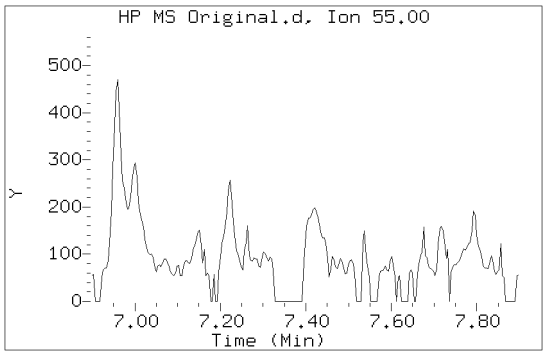
BEFORE
MASS
42
AREA
551
HEIGHT
229
28-May-2024
09:17
tianna
smith



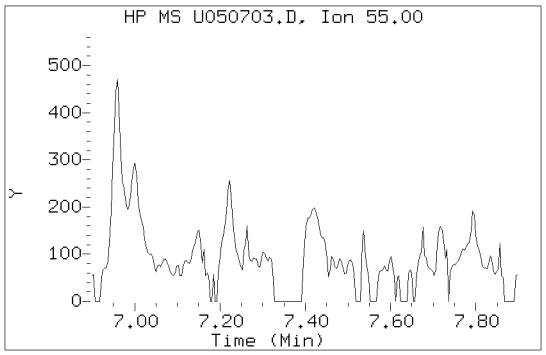
AFTER
MASS
42
AREA
551
HEIGHT
229
28-May-2024
10:32



BEFORE
MASS
55
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32

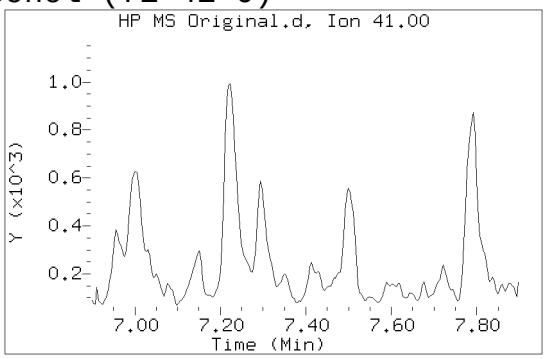


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

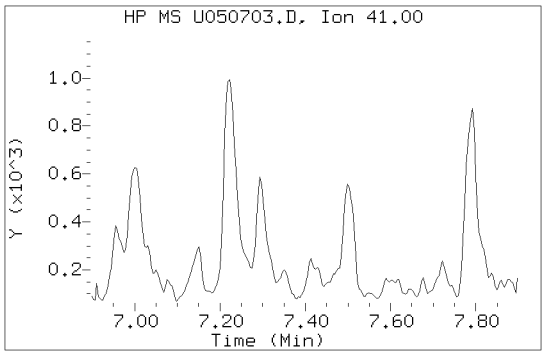
Amyl alcohol (71-41-0)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



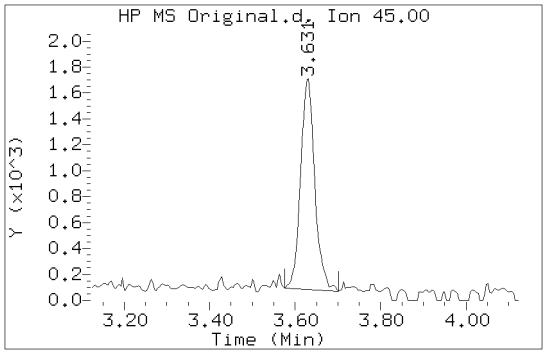
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32



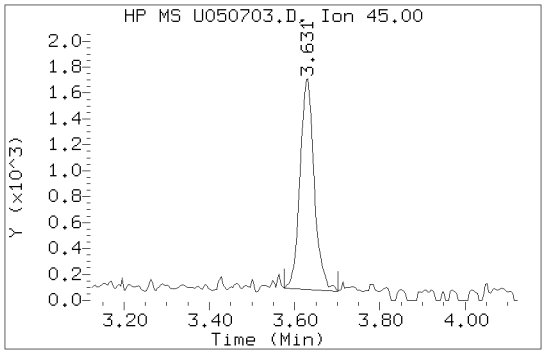
Diisopropyl ether (108-20-3)

Reason Code:

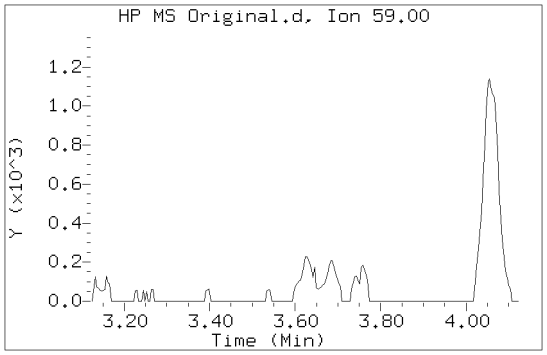
BEFORE
MASS
45
AREA
3831
HEIGHT
1626
28-May-2024
09:17
tianna
smith



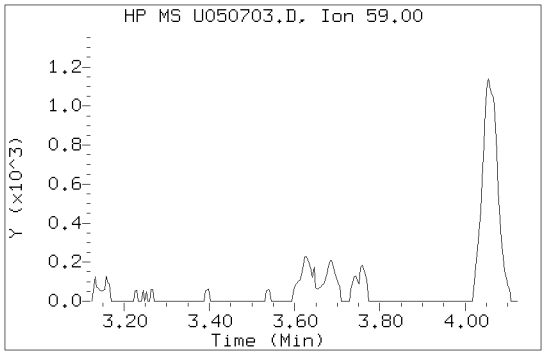
AFTER
MASS
45
AREA
3831
HEIGHT
1626
28-May-2024
10:32



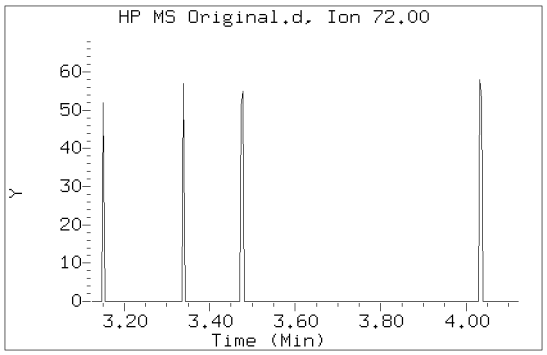
BEFORE
MASS
59
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



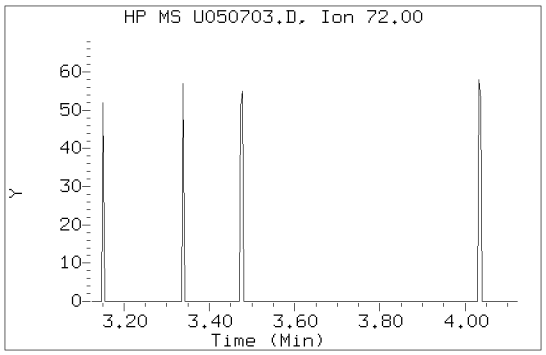
AFTER
MASS
59
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
72
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
72
AREA
0
HEIGHT
0
28-May-2024
10:32

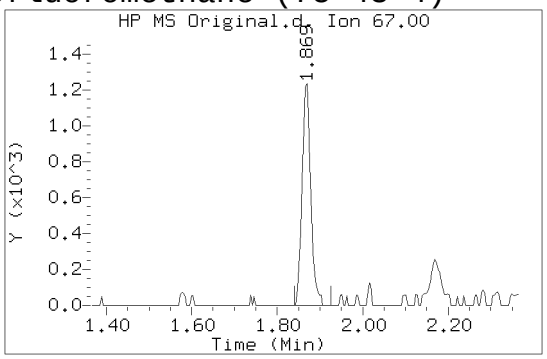


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050703.D
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

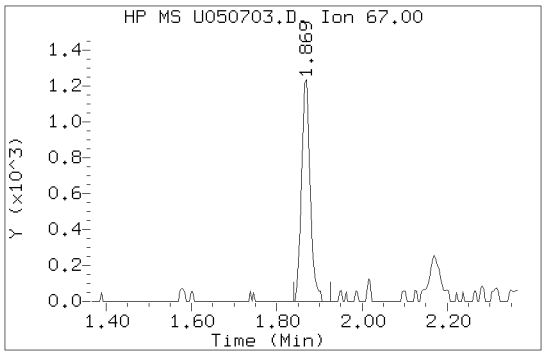
Dichlorofluoromethane (75-43-4)

Reason Code:

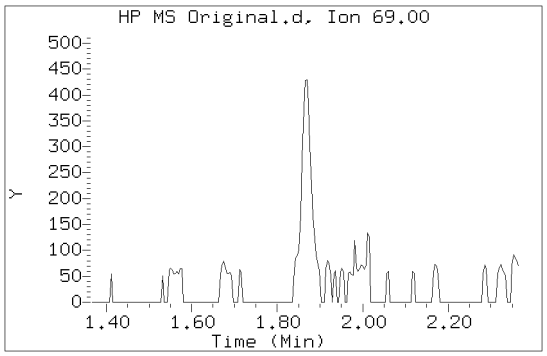
BEFORE
MASS
67
AREA
1793
HEIGHT
1236
28-May-2024
09:17
tianna
smith



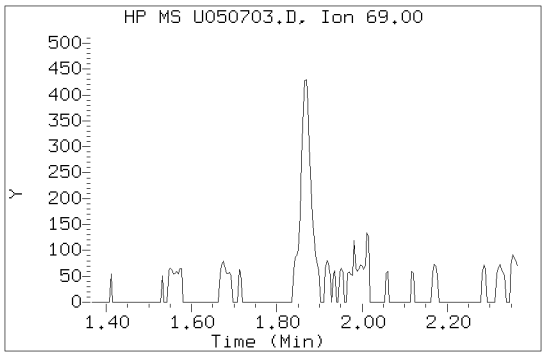
AFTER
MASS
67
AREA
1793
HEIGHT
1236
28-May-2024
10:32



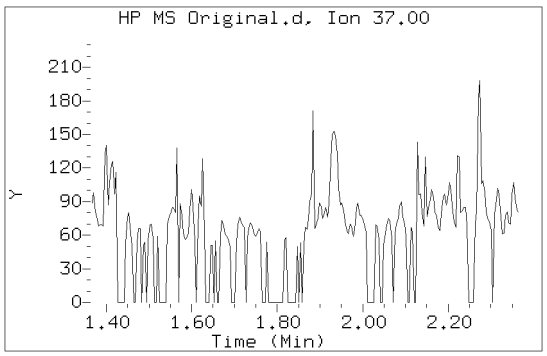
BEFORE
MASS
69
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



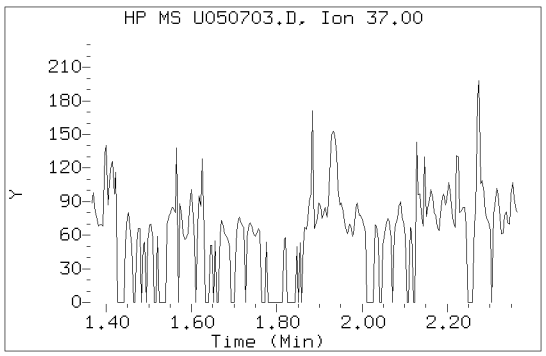
AFTER
MASS
69
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
37
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



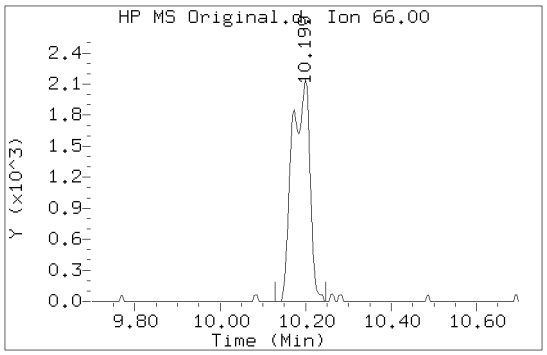
AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32



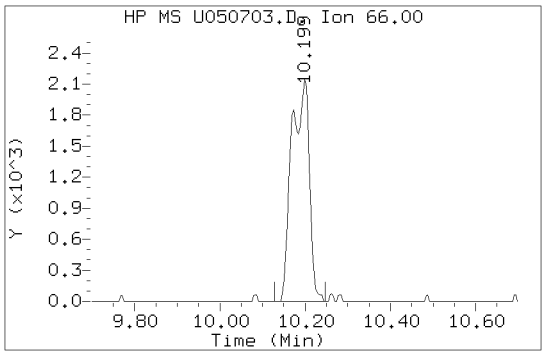
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
66
AREA
6222
HEIGHT
2142
28-May-2024
09:17
tianna
smith



AFTER
MASS
66
AREA
6222
HEIGHT
2142
28-May-2024
10:32



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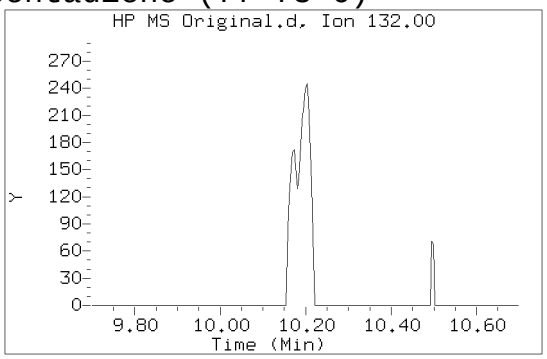
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

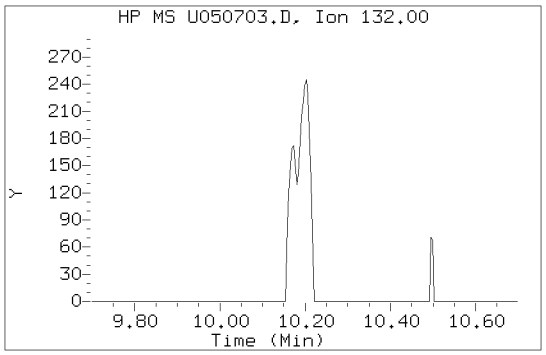
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
132
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



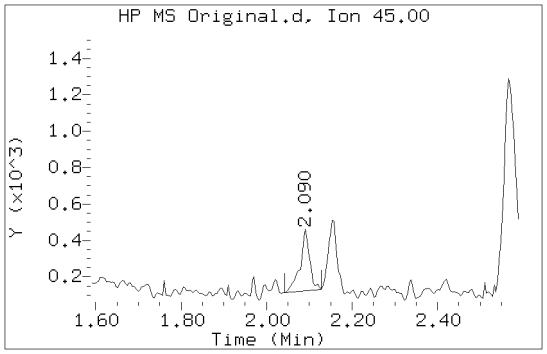
AFTER
MASS
132
AREA
0
HEIGHT
0
28-May-2024
10:32



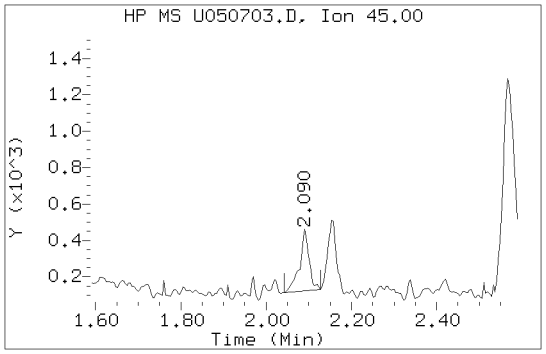
Ethanol (64-17-5)

Reason Code:

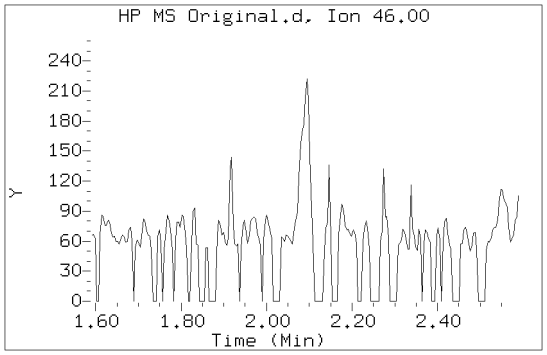
BEFORE
MASS
45
AREA
520
HEIGHT
336
28-May-2024
09:17
tianna
smith



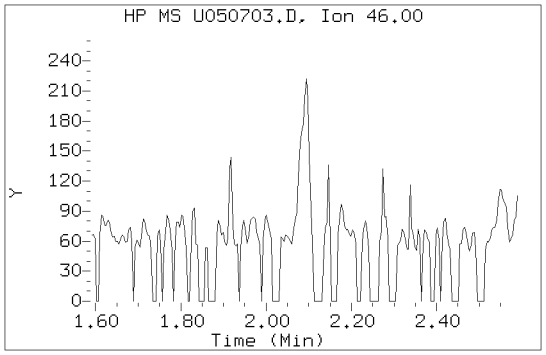
AFTER
MASS
45
AREA
520
HEIGHT
336
28-May-2024
10:32



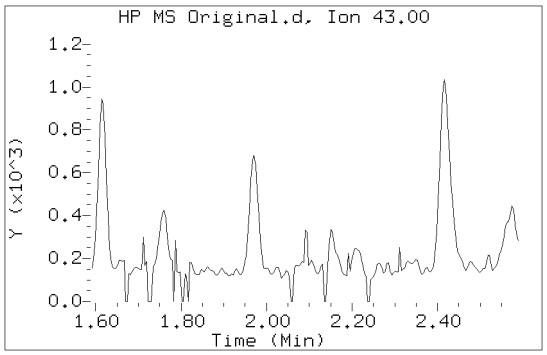
BEFORE
MASS
46
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



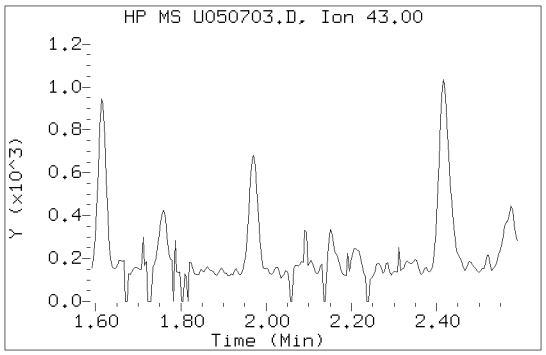
AFTER
MASS
46
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
43
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
0
HEIGHT
0
28-May-2024
10:32



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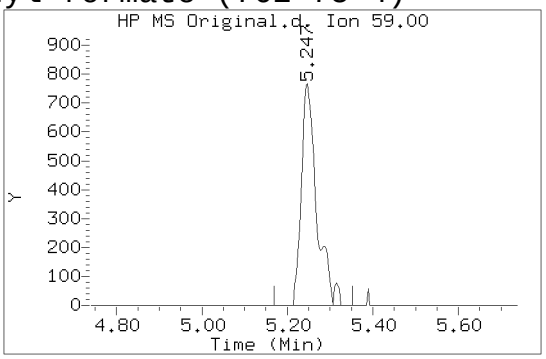
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

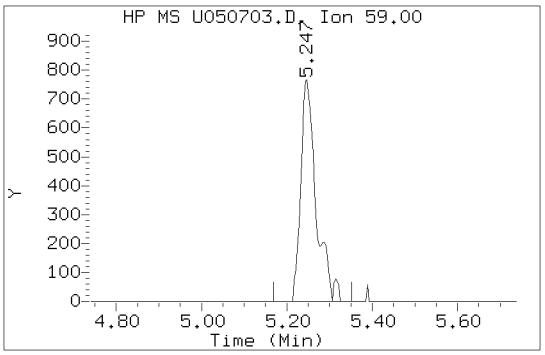
tert-Butyl formate (762-75-4)

Reason Code:

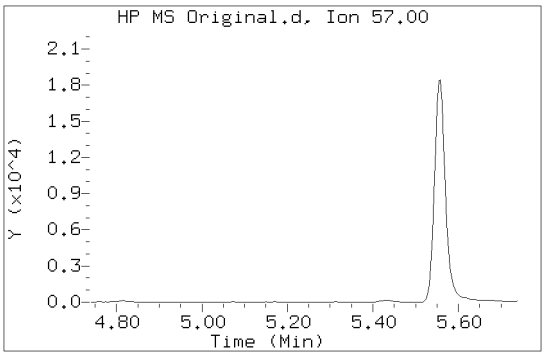
BEFORE
MASS
59
AREA
1950
HEIGHT
767
28-May-2024
09:17
tianna
smith



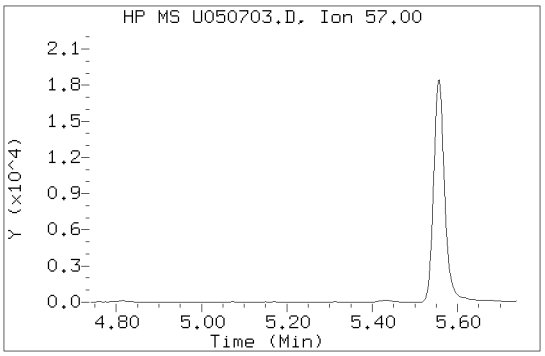
AFTER
MASS
59
AREA
1950
HEIGHT
767
28-May-2024
10:32



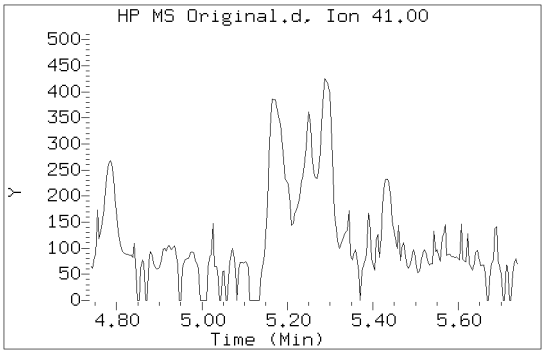
BEFORE
MASS
57
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



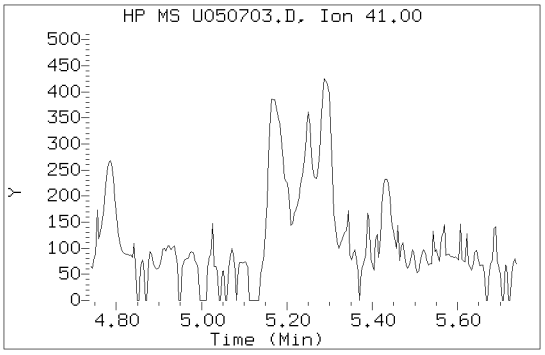
AFTER
MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
41
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



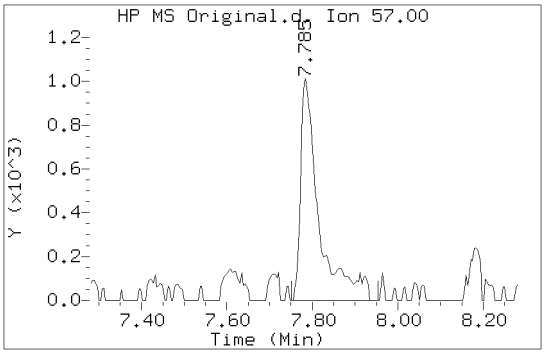
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32



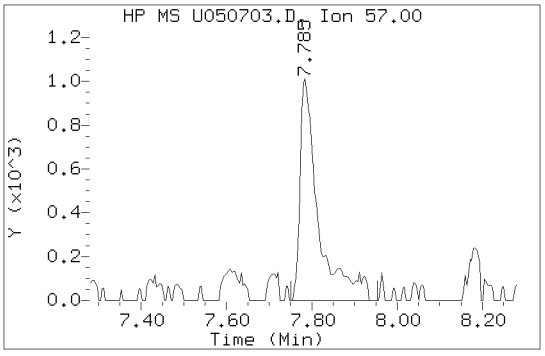
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
3047
HEIGHT
1012
28-May-2024
09:17
tianna
smith



AFTER
MASS
57
AREA
3047
HEIGHT
1012
28-May-2024
10:32



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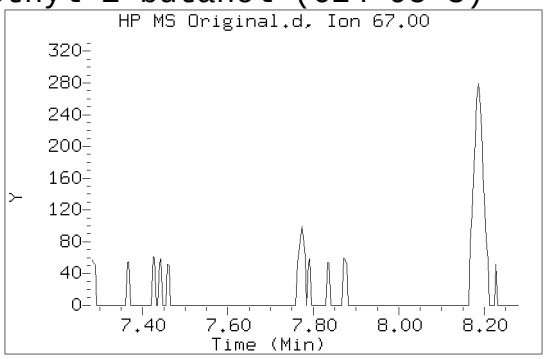
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

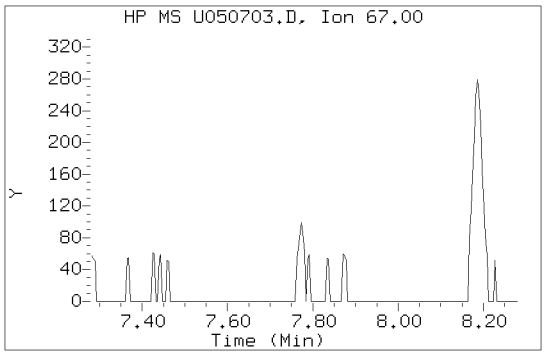
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

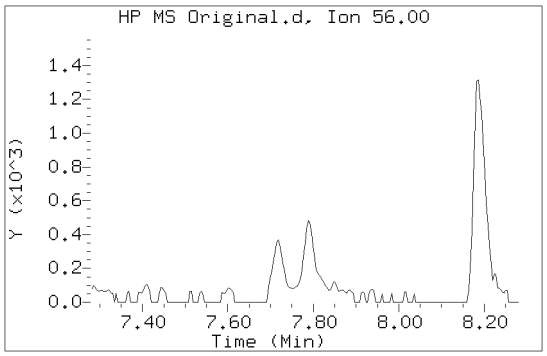
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



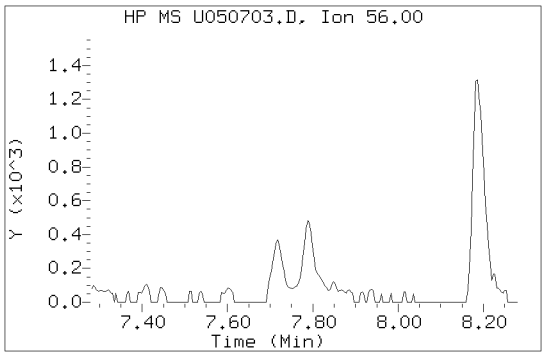
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
56
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



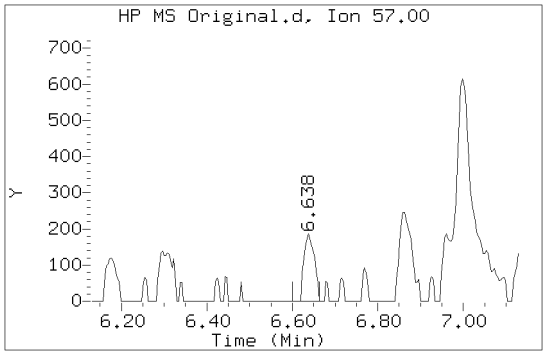
AFTER
MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32



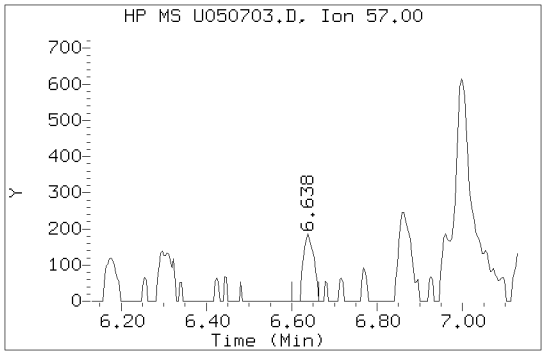
Epichlorohydrin (106-89-8)

Reason Code:

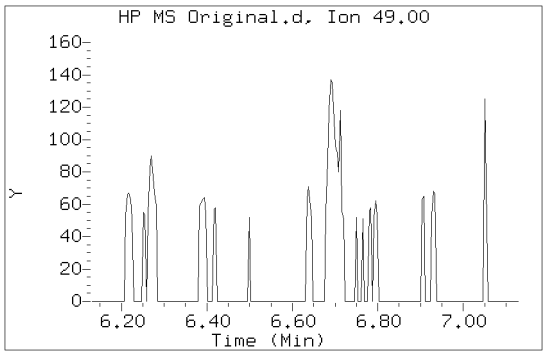
BEFORE
MASS
57
AREA
321
HEIGHT
186
28-May-2024
09:17
tianna
smith



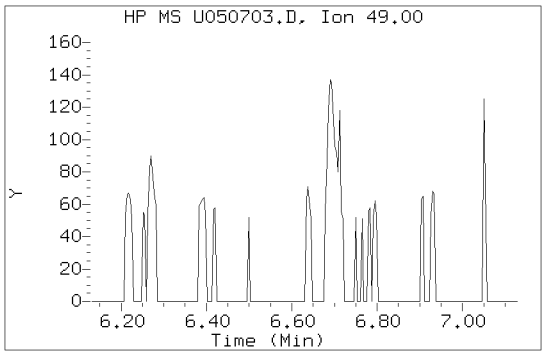
AFTER
MASS
57
AREA
321
HEIGHT
186
28-May-2024
10:32



BEFORE
MASS
49
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER
MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32



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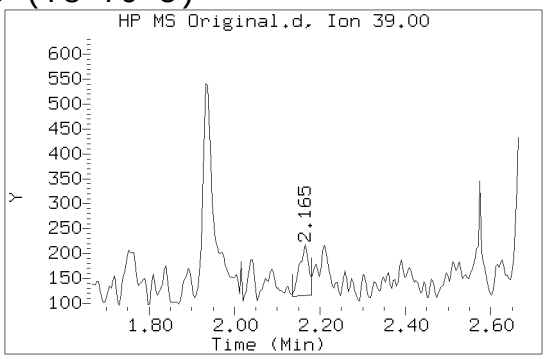
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

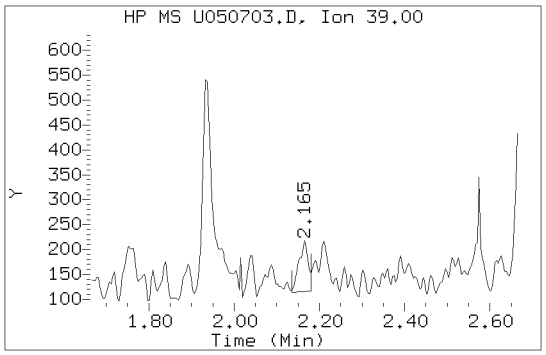
Isoprene (78-79-5)

Reason Code:

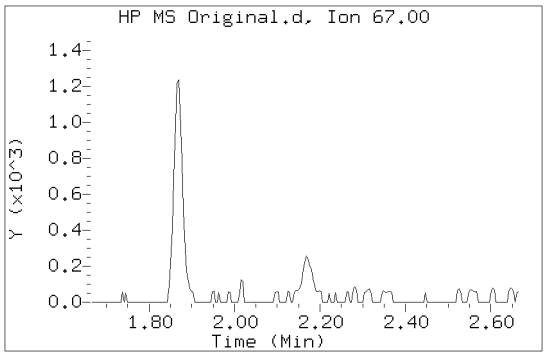
BEFORE
MASS
39
AREA
156
HEIGHT
102
28-May-2024
09:17
tianna
smith



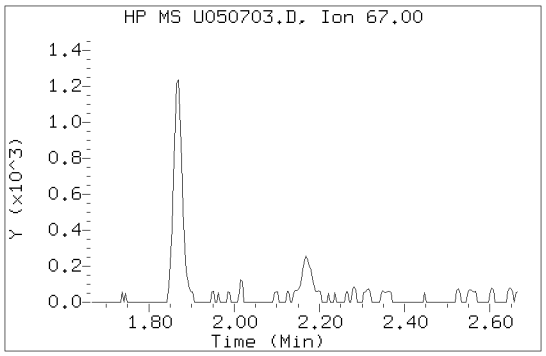
AFTER
MASS
39
AREA
156
HEIGHT
102
28-May-2024
10:32



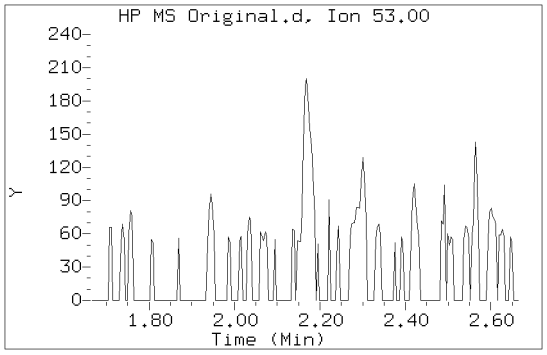
BEFORE
MASS
67
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



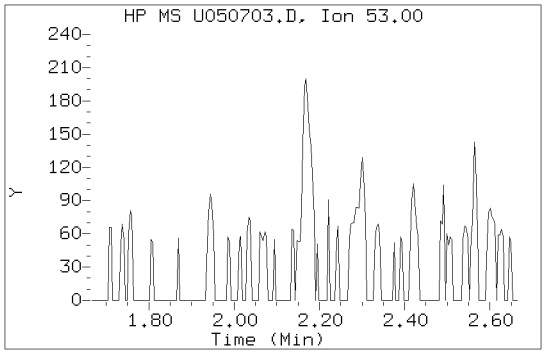
AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32



BEFORE
MASS
53
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



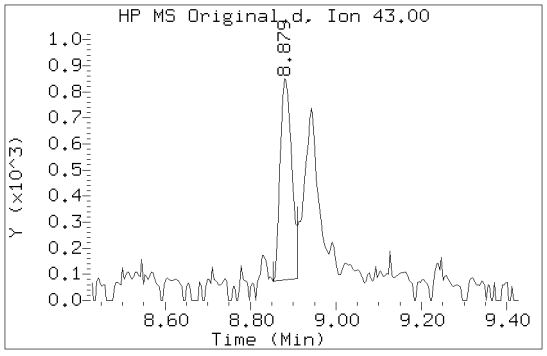
AFTER
MASS
53
AREA
0
HEIGHT
0
28-May-2024
10:32



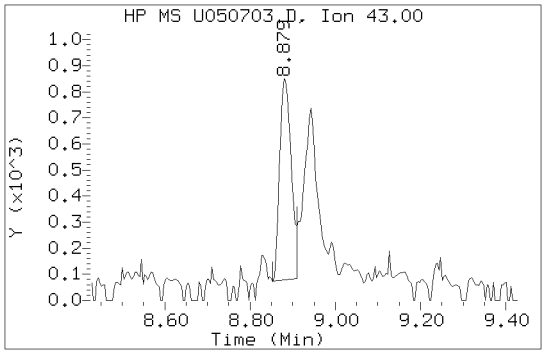
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
1459
HEIGHT
771
28-May-2024
09:17
tianna
smith



AFTER
MASS
43
AREA
1459
HEIGHT
771
28-May-2024
10:32



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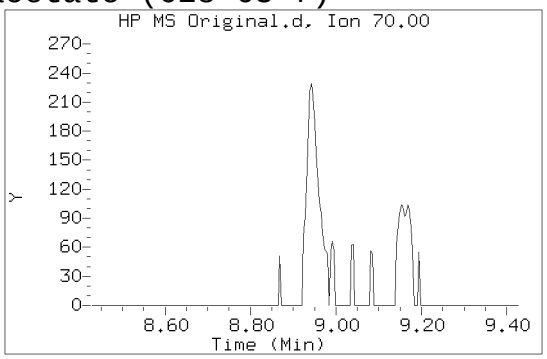
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

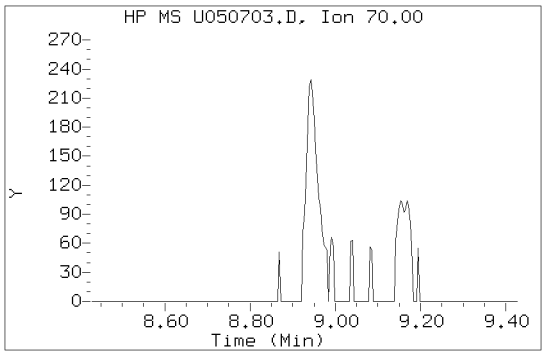
BEFORE

MASS
70
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



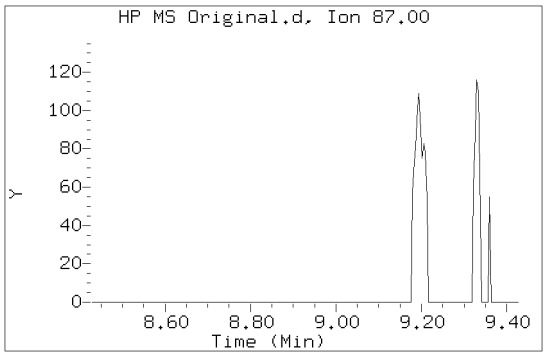
AFTER

MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32



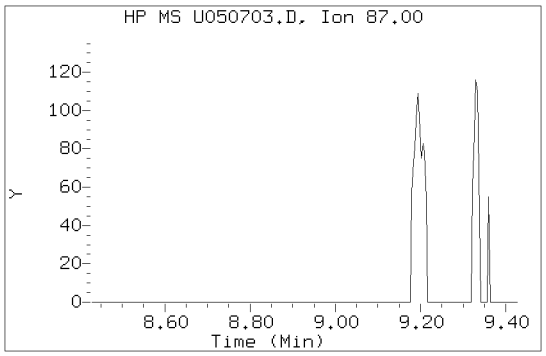
BEFORE

MASS
87
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
87
AREA
0
HEIGHT
0
28-May-2024
10:32

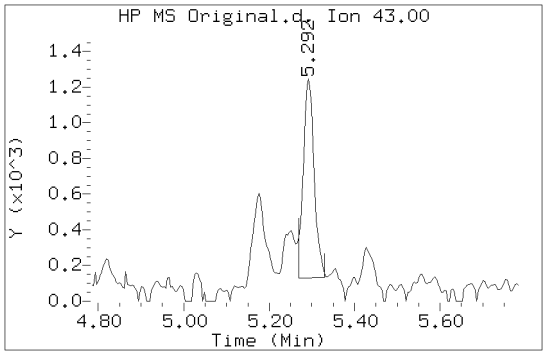


Isopropyl acetate (108-21-4)

Reason Code:

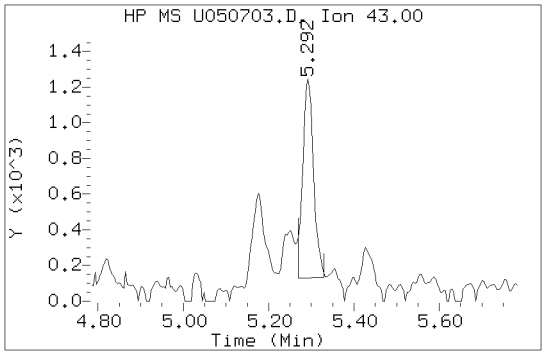
BEFORE

MASS
43
AREA
2022
HEIGHT
1114
28-May-2024
09:17
tianna
smith



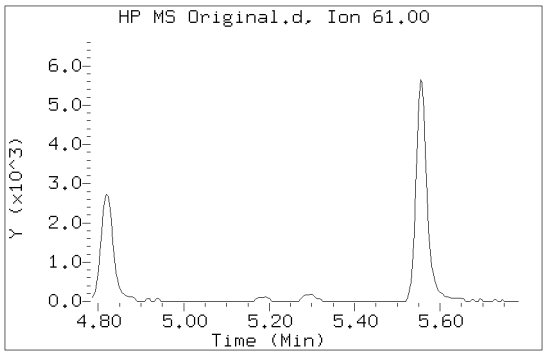
AFTER

MASS
43
AREA
2022
HEIGHT
1114
28-May-2024
10:32



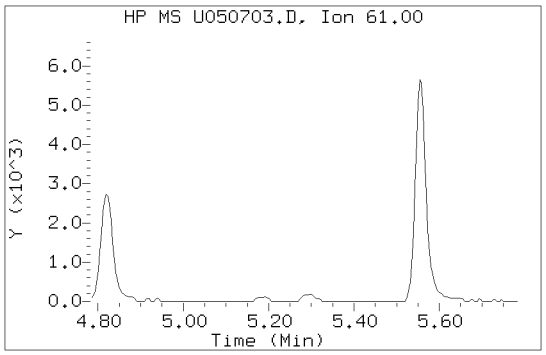
BEFORE

MASS
61
AREA
0
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32



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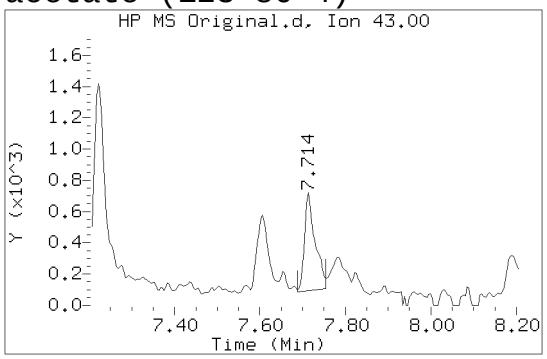
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
1111
HEIGHT
627
28-May-2024
09:17
tianna
smith



AFTER
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HEIGHT
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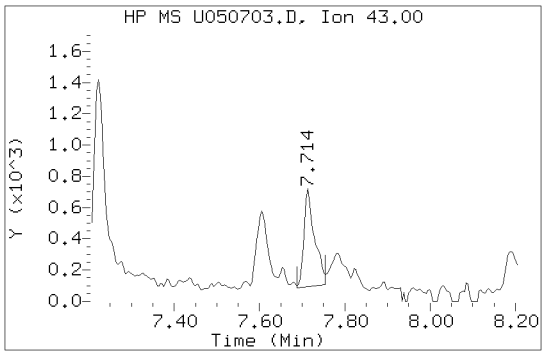
28-May-2024
10:32



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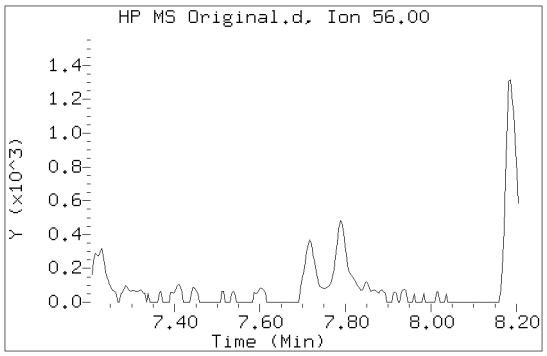
28-May-2024
09:17
tianna
smith



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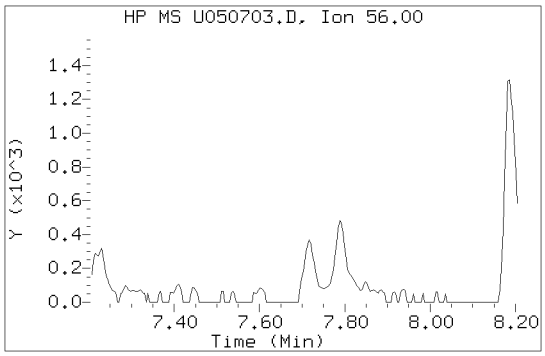

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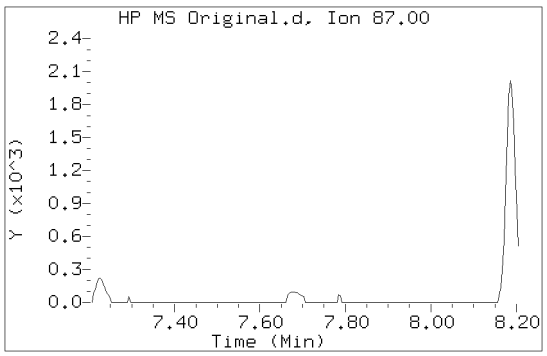
smith



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28-May-2024
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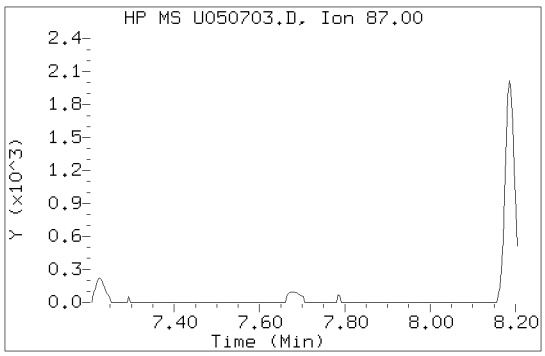

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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HEIGHT
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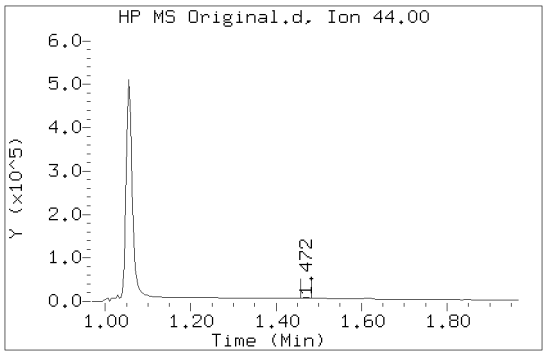
28-May-2024
09:17
tianna
smith



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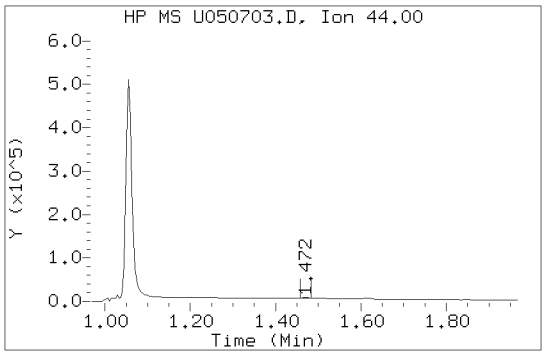

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Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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43
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HEIGHT
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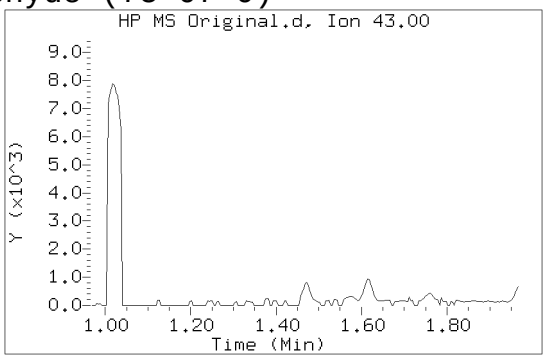
28-May-2024
09:17
tianna
smith



AFTER
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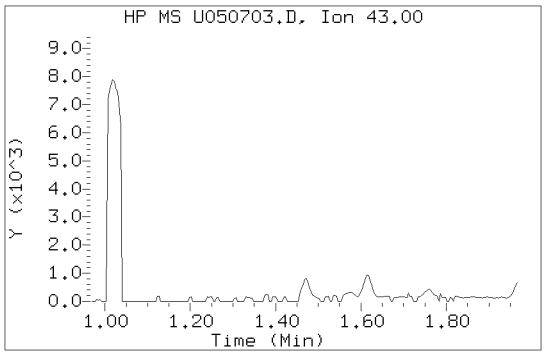
28-May-2024
10:32



BEFORE
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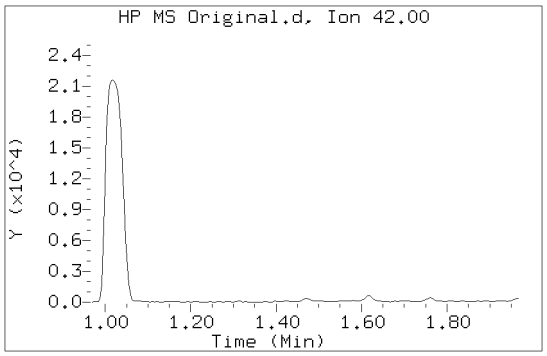
09:17
tianna
smith



AFTER
MASS
42
AREA
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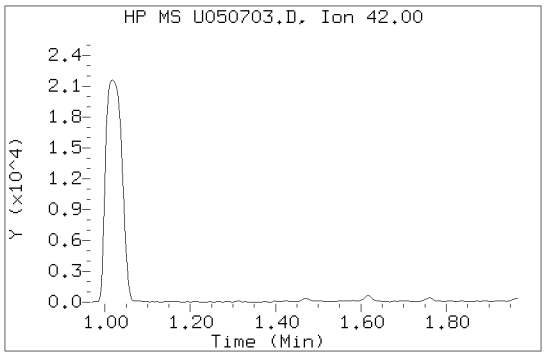
28-May-2024
10:32



Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
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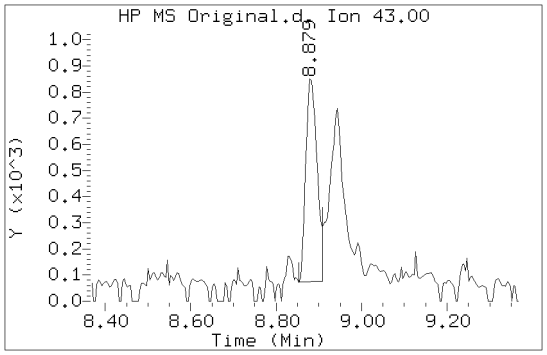
AREA
1474
HEIGHT
775
28-May-2024
09:17
tianna
smith



AFTER
MASS
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AREA
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HEIGHT
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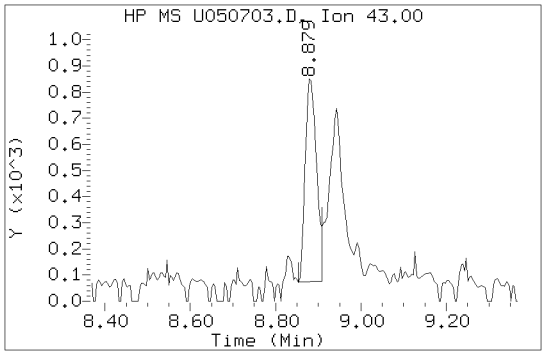
28-May-2024
10:32



BEFORE
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58
AREA
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HEIGHT
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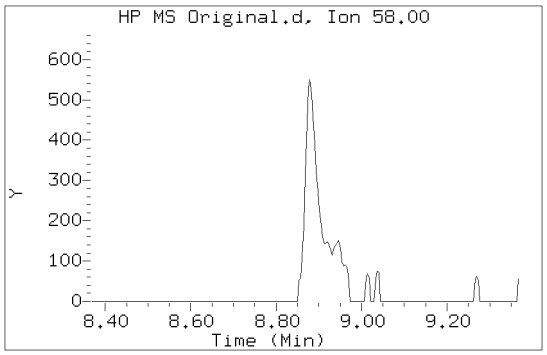
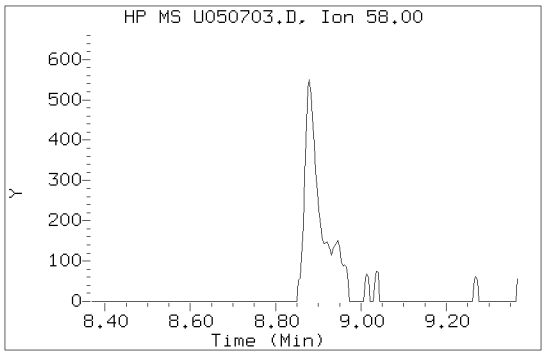
28-May-2024
09:17
tianna
smith



AFTER
MASS
58
AREA
0
HEIGHT
0
28-May-2024
10:32



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Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
71
AREA
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HEIGHT
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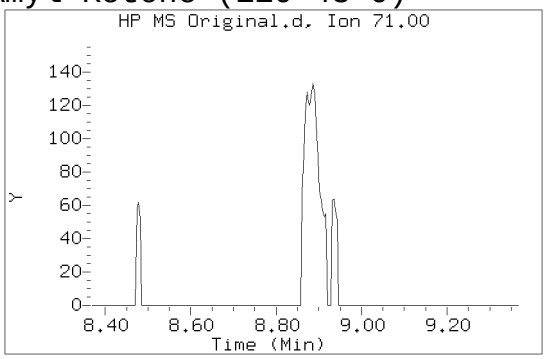
28-May-2024
09:17
tianna
smith



AFTER
MASS
71
AREA
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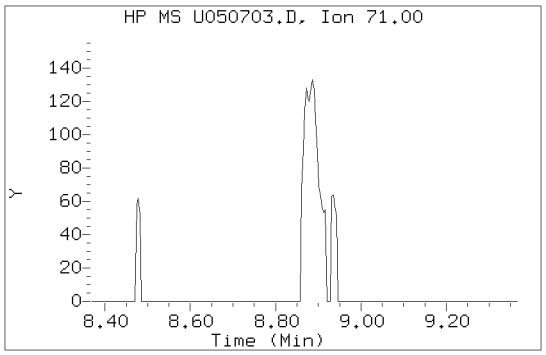
HEIGHT
0
28-May-2024
10:32



Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
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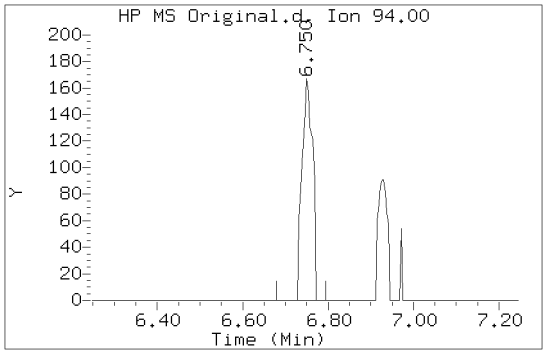
94
AREA
292
HEIGHT
167
28-May-2024
09:17
tianna
smith



AFTER
MASS
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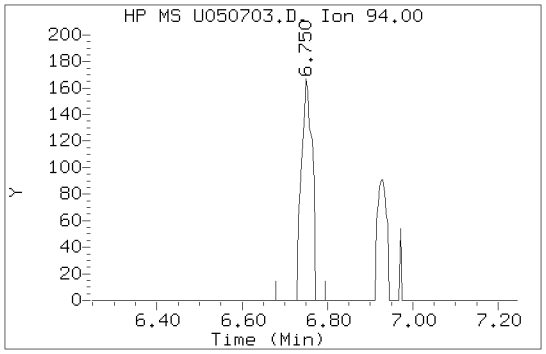
AREA
292
HEIGHT
167
28-May-2024
10:32



BEFORE
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79
AREA
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HEIGHT
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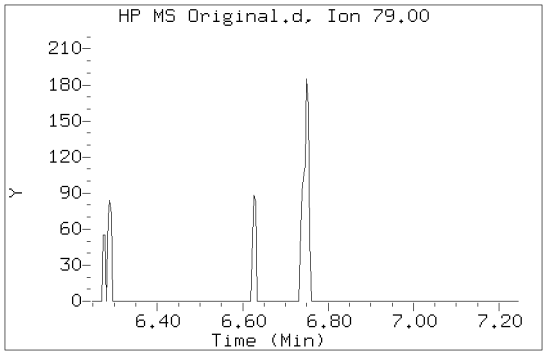
28-May-2024
09:17
tianna
smith



AFTER
MASS
79
AREA
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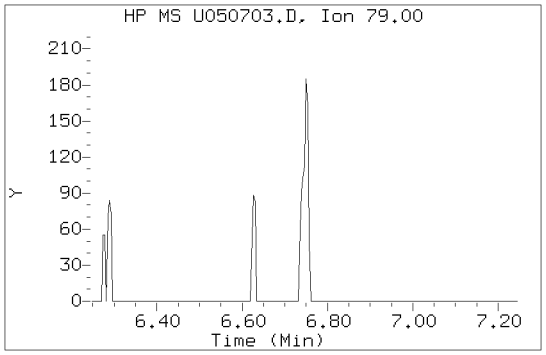
HEIGHT
0
28-May-2024
10:32



BEFORE
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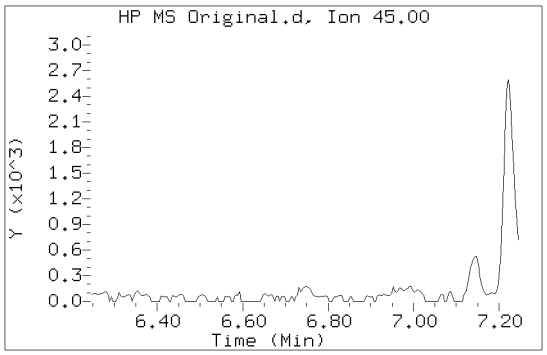
28-May-2024
09:17
tianna
smith



AFTER
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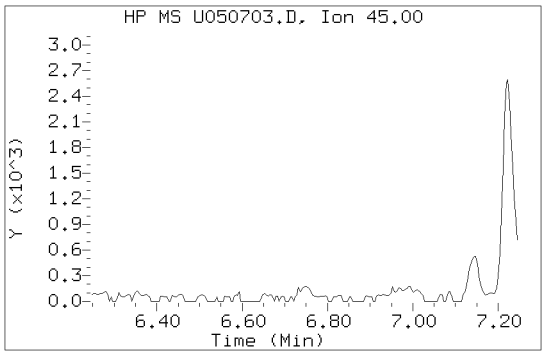
28-May-2024
10:32



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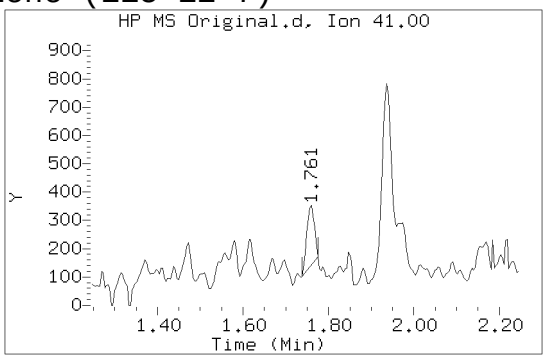
Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
262
HEIGHT
209
28-May-2024
09:17
tianna
smith



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AREA
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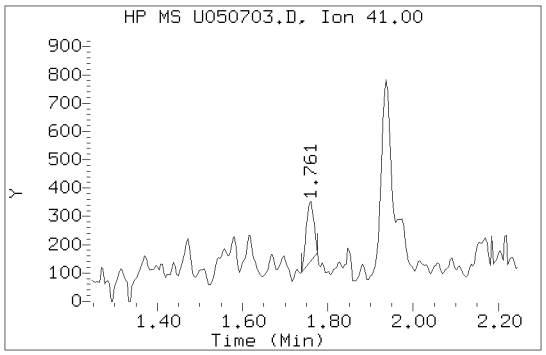
HEIGHT
209
28-May-2024
10:32



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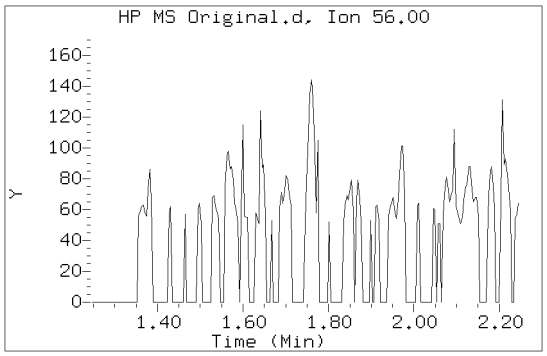
smith



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28-May-2024
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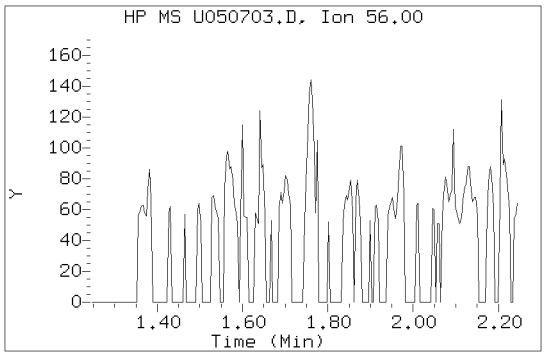

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09:17
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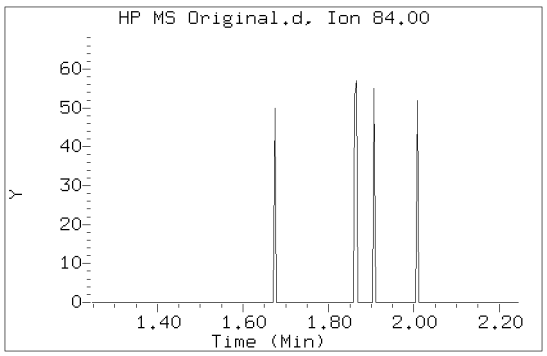
smith



AFTER
MASS
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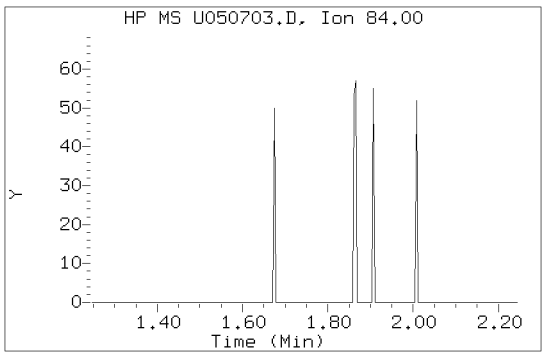
28-May-2024
10:32



2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
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AREA
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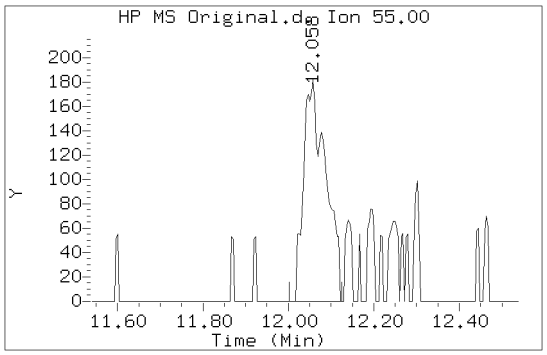
HEIGHT
182
28-May-2024
09:17
tianna
smith



AFTER
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AREA
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HEIGHT
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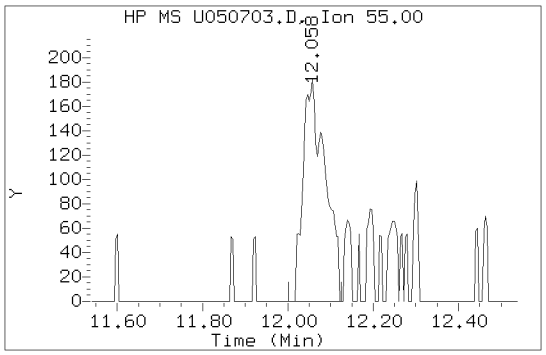
28-May-2024
10:32



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Inj Date : 07-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
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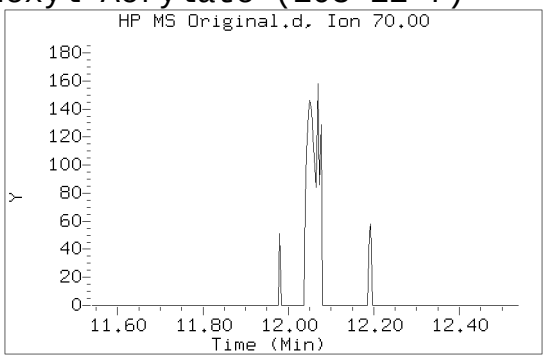
HEIGHT
0
28-May-2024
09:17
tianna
smith



AFTER

MASS
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AREA
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HEIGHT
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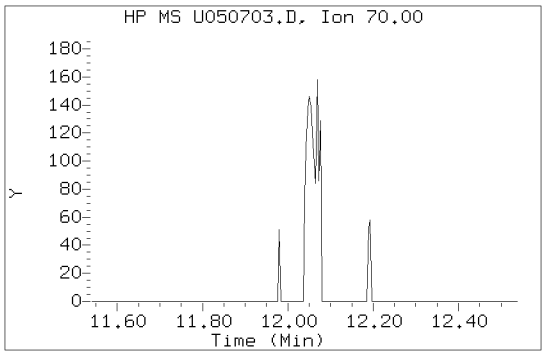
28-May-2024
10:32



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
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Inj Date : 07-MAY-2024 12:48
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:26 Cal File: U050703.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: 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)	233828	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	1557	1.00000	1.28(M)
3	Chloromethane	50	1.291	1.291	(0.268)	2801	1.00000	0.55
4	Propionitrile	54	4.343	4.343	(0.902)	4378	10.0000	(aM)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	2206	1.00000	1.06(M)
6	Bromomethane	94	1.610	1.610	(0.334)	2357	1.00000	1.73
7	Chloroethane	64	1.692	1.692	(0.352)	1775	1.00000	0.77
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2473	1.00000	1.00
9	Acrolein	56	2.258	2.258	(0.469)	367	2.00000	(aM)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	1548	1.00000	0.90
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	5509	20.0000	22.33(a)
13	Acetonitrile	39	2.667	2.667	(0.554)	2163	10.0000	9.32(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	6424	1.00000	1.08(a)
15	Iodomethane	142	2.461	2.461	(0.511)	1959	2.00000	2.65(T)
17	Methylene Chloride	84	2.787	2.787	(0.579)	5625	1.00000	0.88
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	6038	1.00000	1.10
19	Carbon Disulfide	76	2.513	2.513	(0.522)	8192	2.00000	2.22
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	1968	1.00000	1.06
21	Vinyl Acetate	43	4.339	4.339	(0.901)	2021	2.00000	2.01(M)
22	1,1-Dichloroethane	63	3.507	3.507	(0.728)	3729	1.00000	1.16(T)

23 Chloroprene	53	2.157	2.157 (0.448)	924	1.00000	0.82(aM)
24 2-Butanone	43	4.268	4.268 (0.886)	1659	2.00000	2.24

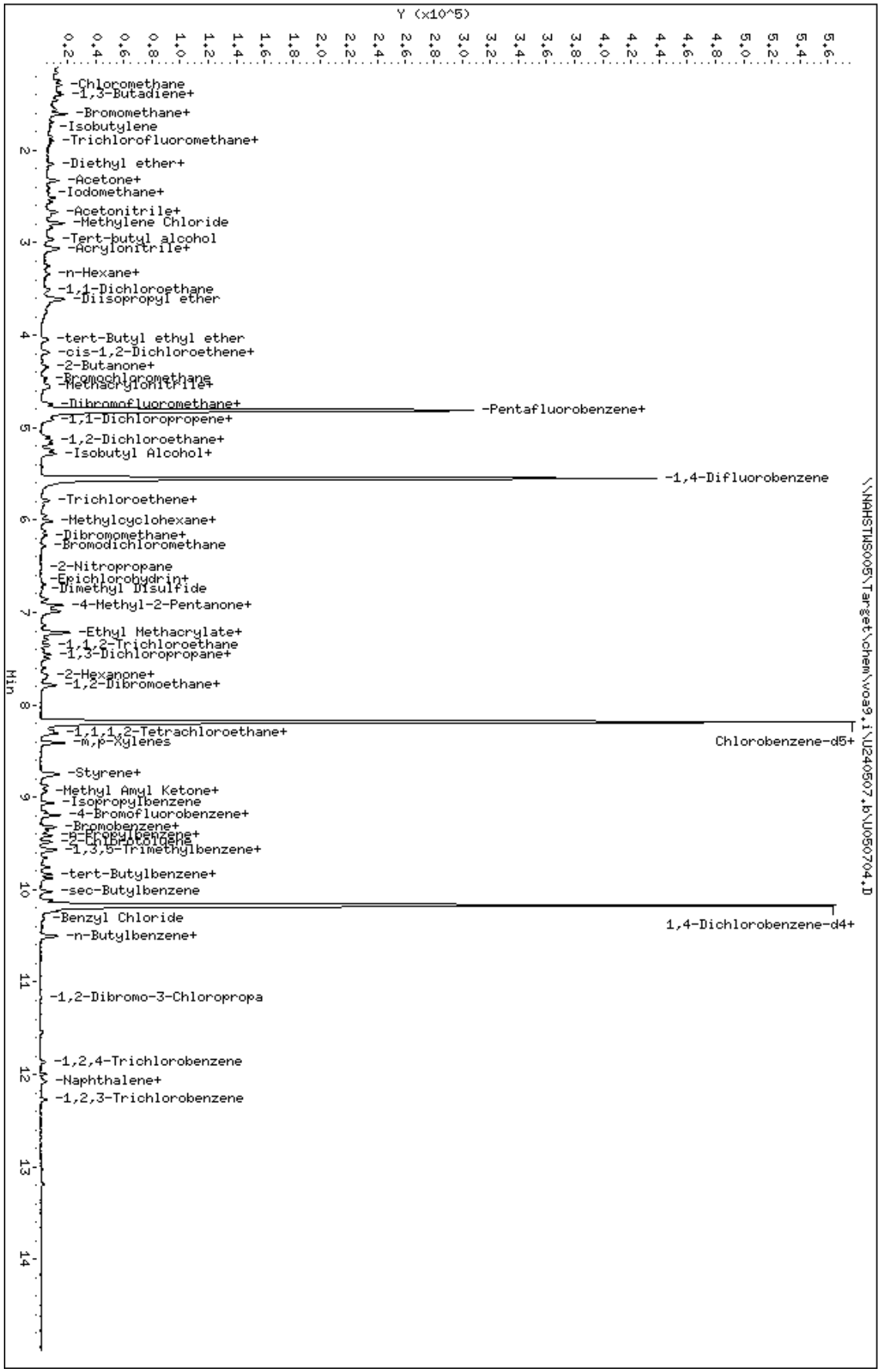
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.504	4.504	(0.935)	1354	1.00000	1.06(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	1877	1.00000	1.50(M)
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	2013	1.00000	1.16
	28 Chloroform	83	4.571	4.571	(0.949)	3259	1.00000	1.21
	29 Bromochloromethane	128	4.466	4.466	(0.928)	1072	1.00000	0.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	2915	1.00000	(a)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	2025	1.00000	1.05
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	2060	1.00000	1.02
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	2650	1.00000	1.16
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	1932	1.00000	1.50(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3917	1.00000	(a)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	348530	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	7165	1.00000	1.14
	38 Trichloroethene	130	5.790	5.790	(1.043)	1953	1.00000	1.15(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	1825	1.00000	1.02(aM)
	40 Methyl Methacrylate	41	5.835	5.835	(1.212)	694	1.00000	0.85(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	2166	1.00000	1.47(aM)
	43 2-Nitropropane	43	6.513	6.513	(1.353)	471	1.00000	1.02(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	1107	1.00000	1.07(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	3583	2.00000	2.02(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	1704	1.00000	1.82(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	313614	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	10301	1.00000	(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	2715	1.00000	1.06(a)
	50 Toluene	91	6.982	6.982	(0.853)	6430	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	1103	1.00000	1.95(aM)
	52 2-Hexanone	43	7.600	7.600	(0.929)	2287	2.00000	5.25
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1562	1.00000	1.21(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	3083	1.00000	1.13(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1058	1.00000	3.11(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1241	1.00000	0.88(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1590	1.00000	1.10(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4501	1.00000	1.63(a)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	5172	1.00000	1.20(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1282	1.00000	2.80(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	2177	1.00000	1.07(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	5043	2.00000	2.05(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	2506	1.00000	1.02(aM)
	64 Styrene	104	8.766	8.766	(1.071)	3944	1.00000	0.95(a)
	66 Bromoform	173	8.920	8.920	(1.090)	666	1.00000	2.22(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	5630	1.00000	0.95(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2612	1.00000	1.74(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	4236	1.00000	0.00(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	152902	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	1812	1.00000	0.93(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	435	1.00000	1.53(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	6308	1.00000	1.02(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	2043	1.00000	1.23(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4511	1.00000	1.01(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	4613	1.00000	1.10(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	4909	1.00000	1.04(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	3755	1.00000	1.00(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	4129	1.00000	0.94(a)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	5080	1.00000	1.03(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	3915	1.00000	0.91(a)
83	1,3-Dichlorobenzene	146	10.119	10.119	(0.995)	3341	1.00000	1.15(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4070	1.00000	1.79(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	1403	1.00000	3.69(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	3736	1.00000	1.58(a)
88	1,2-Dichlorobenzene	146	10.509	10.509	(1.033)	3213	1.00000	1.49(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	188	1.00000	2.67(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1543	1.00000	1.62(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	743	1.00000	1.00(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	3927	1.00000	2.91(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	1899	1.00000	1.10(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	3883	1.00000	(a)
138	Freon TF	101	2.333	2.333	(0.485)	1357	1.00000	1.09(a)
141	Cyclohexane	56	4.811	4.811	(0.999)	6206	1.00000	2.49(a)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	3123	1.00000	0.72(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	818	20.0000	18.54(a)
132	n-Butanol	56	5.835	5.835	(1.212)	1422	20.0000	22.66(a)
136	n-Hexane	57	3.338	3.338	(0.693)	1884	1.00000	1.12(Ta)
139	Diethyl ether	59	2.139	2.139	(0.444)	1736	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	6018	20.0000	8.04(M)
149	Isopropyl alcohol	45	2.558	2.558	(0.531)	4473	20.0000	0.25(Ta)
152	Amyl alcohol	42	7.405	7.405	(0.905)	878	20.0000	18.61(M)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	6537	1.00000	0.98(Ta)
162	Butyl acrylate	55	8.740	8.740	(1.068)	2730	1.00000	2.13(a)
187	n-Amyl acetate	43	8.875	8.875	(1.084)	3108	1.00000	0.96(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	7350	1.00000	0.89(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	4654	1.00000	0.82(a)
167	Ethanol	45	2.079	2.079	(0.432)	1084	20.0000	1.22(a)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	3827	2.00000	2.29(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	5673	20.0000	41.34(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	5039	1.00000	0.95(a)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	5114	1.00000	0.95(a)
176	tert-Amyl alcohol	59	5.242	5.242	(1.089)	3140	20.0000	19.56
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	8960	20.0000	48.63
140	1,3-Butadiene	54	1.396	1.396	(0.290)	1766	1.00000	1.16(a)
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	2684	1.00000	0.80(M)
182	Epichlorohydrin	57	6.644	6.644	(1.197)	696	4.00000	4.67(aM)
M 94	1,2-Dichloroethylene (total)	96				3981	2.00000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.901)	1997	1.00000	1.00(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	3276	1.00000	0.55(aM)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	2135	1.00000	3.58(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1788	20.0000	22.61(a)
185	Isoprene	39	2.150	2.150	(0.447)	346	1.00000	0.91(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	5024	1.00000	1.01(aM)
150	Allyl alcohol	57	3.338	3.338	(0.693)	1884	20.0000	22.47
194	Acetaldehyde	44	1.456	1.456	(0.302)	2602	4.00000	(aM)
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	3132	1.00000	3.06(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	584	1.00000	2.44(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	3187	1.00000	0.74(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1565	1.00000	0.79(a)
159	Propylene oxide	43	2.198	2.198	(0.457)	349	2.00000	2.21(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1047	1.00000	2.41(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: VSTD001
Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

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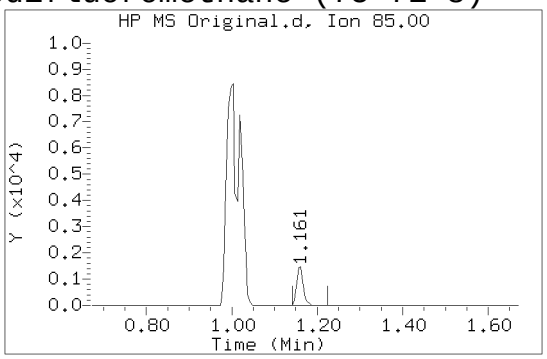
HEIGHT
1460
07-May-2024
16:19
firat
tastan



AFTER

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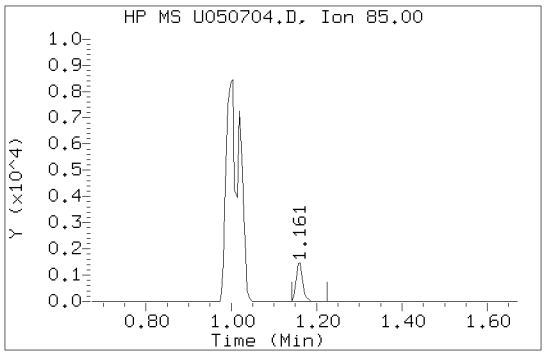
28-May-2024
10:32
firat



BEFORE

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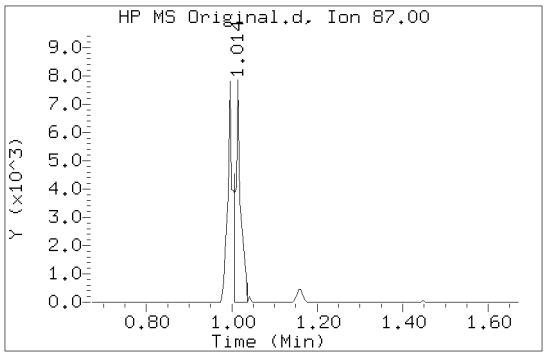

AFTER

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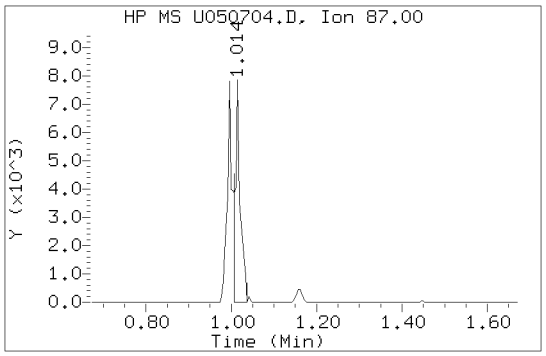

Vinyl Chloride (75-01-4)

Reason Code:

BEFORE

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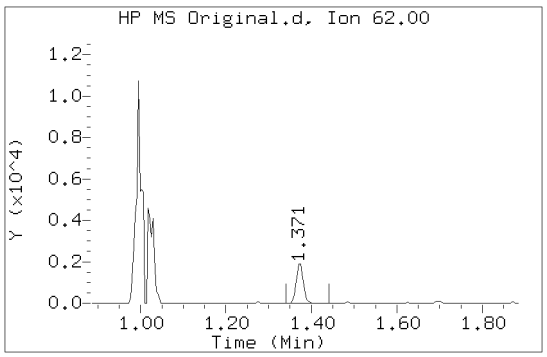

AFTER

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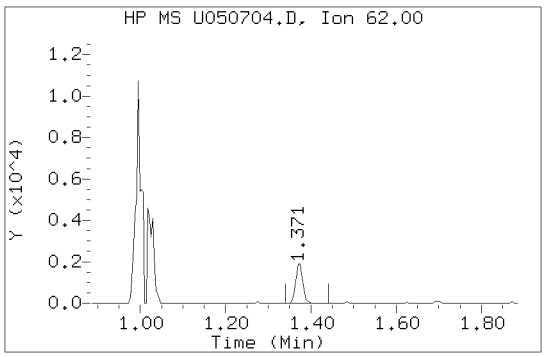

BEFORE

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9277
07-May-2024
16:19
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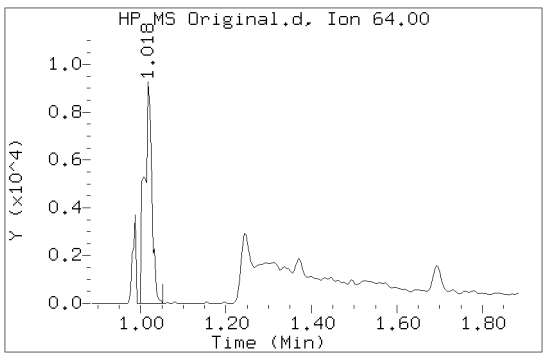
tastan



AFTER

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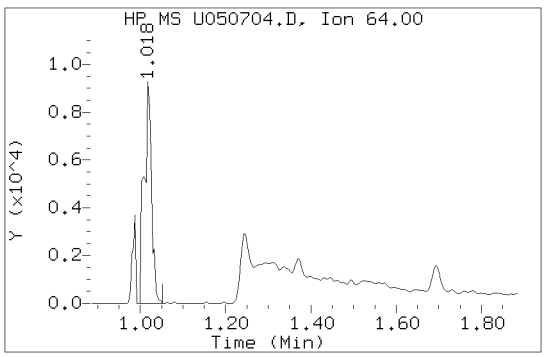

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InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

BEFORE
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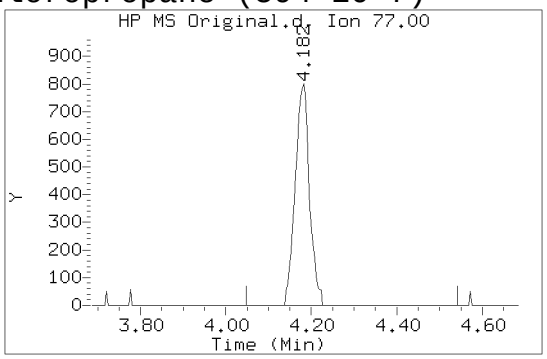
HEIGHT
801
07-May-2024
16:19
firat
tastan



AFTER
MASS
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801
28-May-2024
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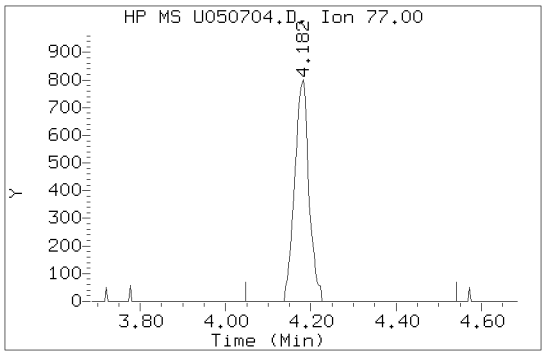

BEFORE
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HEIGHT
0
07-May-2024
16:19
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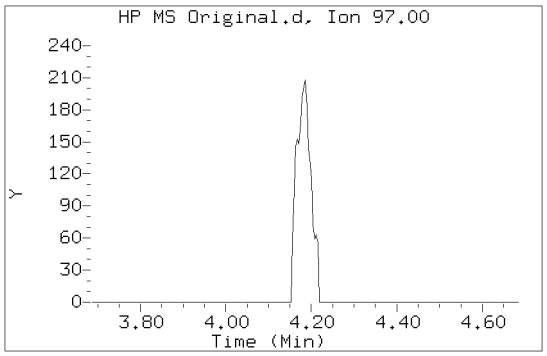

AFTER
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28-May-2024
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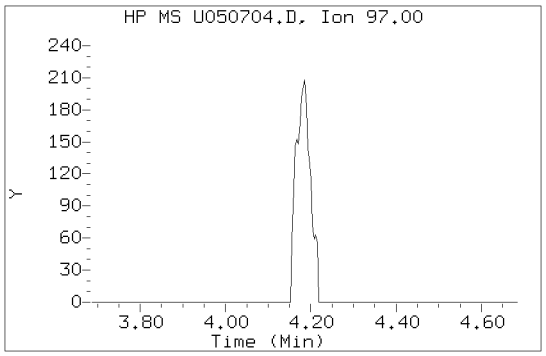

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
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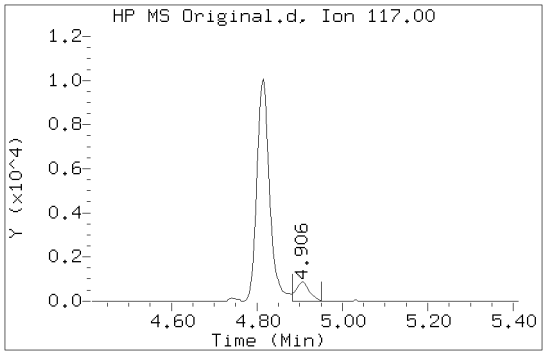
117
AREA
1932
HEIGHT
868
07-May-2024
16:19
firat
tastan



AFTER
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28-May-2024
10:32
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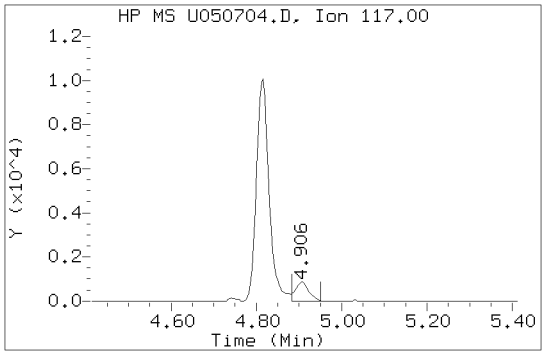

BEFORE
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1063
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588
07-May-2024
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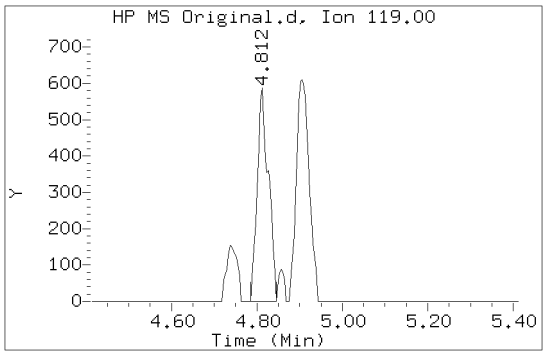
tastan



AFTER
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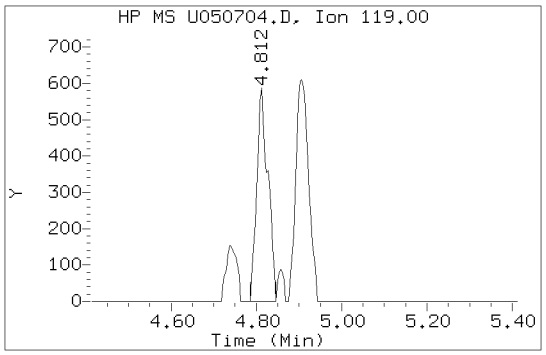

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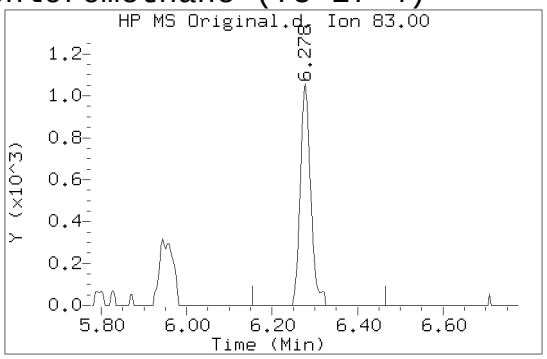
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

MASS
83
AREA
1825
HEIGHT
1058
07-May-2024
16:19
firat
tastan



AFTER

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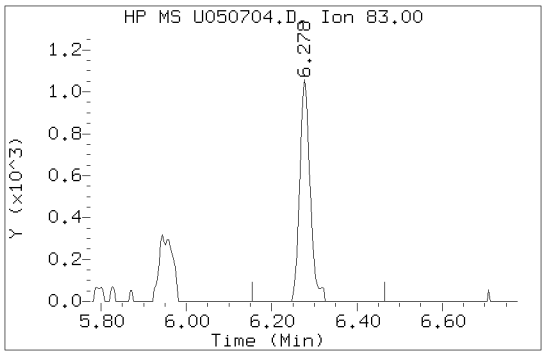

BEFORE

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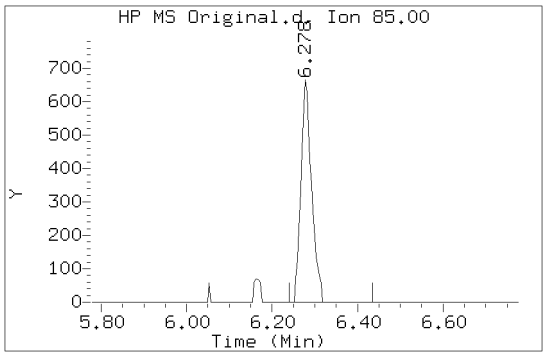
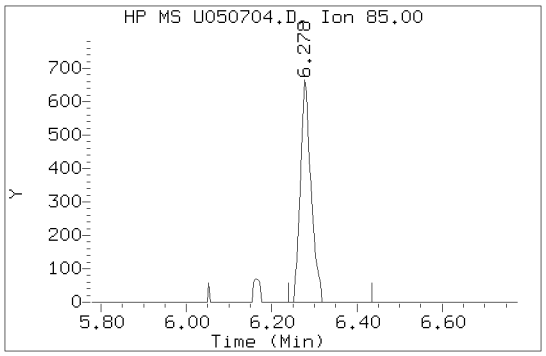
07-May-2024
16:19
firat
tastan



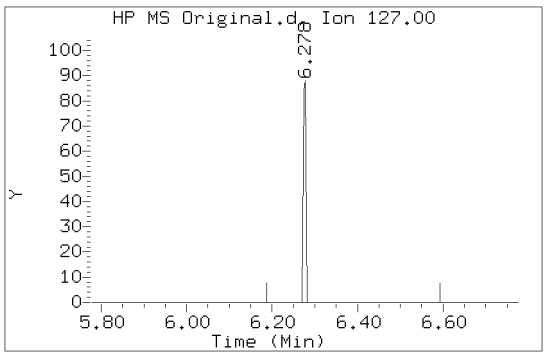
AFTER

MASS
85
AREA
1173
HEIGHT
665
28-May-2024
10:32
firat



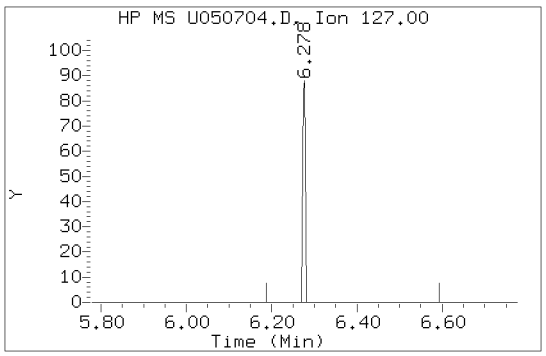
BEFORE

MASS
127
AREA
38
HEIGHT
88
07-May-2024
16:19
firat
tastan



AFTER

MASS
127
AREA
38
HEIGHT
88
28-May-2024
10:32
firat

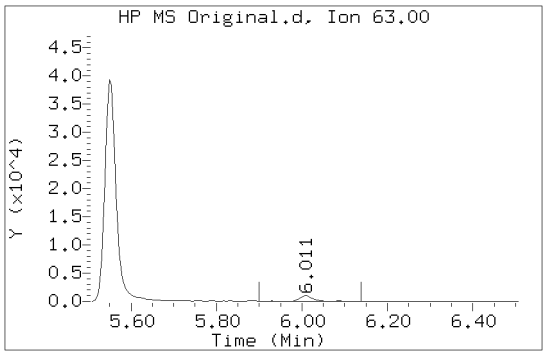


1,2-Dichloropropane (78-87-5)

Reason Code:

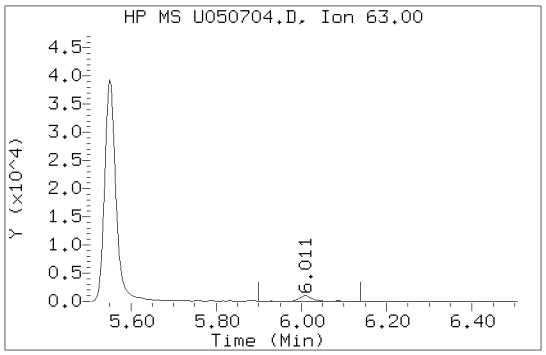
BEFORE

MASS
63
AREA
2166
HEIGHT
1061
07-May-2024
16:19
firat
tastan



AFTER

MASS
63
AREA
2166
HEIGHT
1061
28-May-2024
10:32
firat



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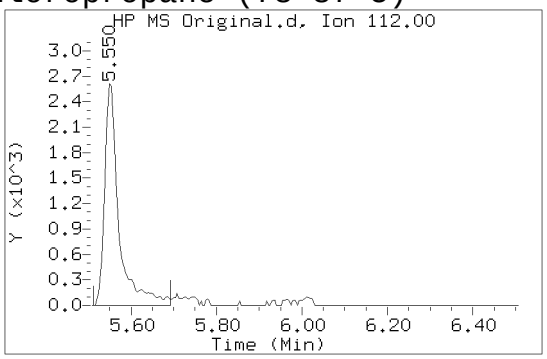
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

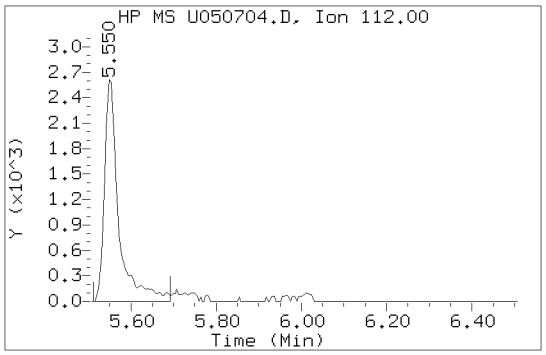
BEFORE

MASS
112
AREA
6056
HEIGHT
2613
07-May-2024
16:19
firat
tastan



AFTER

MASS
112
AREA
6056
HEIGHT
2613
28-May-2024
10:32
firat

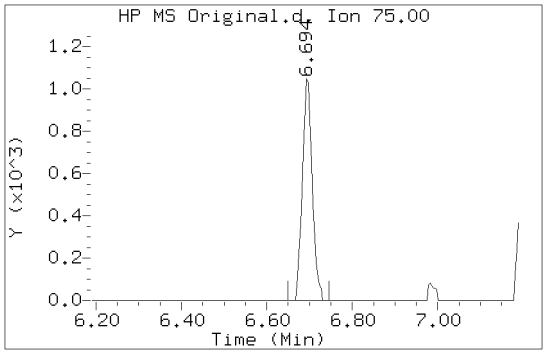


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

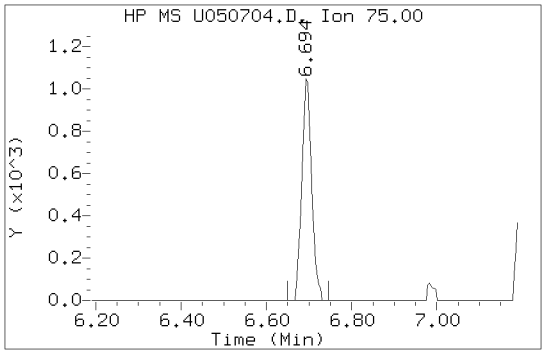
BEFORE

MASS
75
AREA
1704
HEIGHT
1049
07-May-2024
16:19
firat
tastan



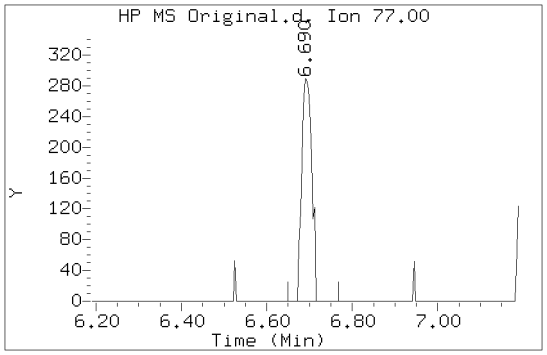
AFTER

MASS
75
AREA
1704
HEIGHT
1049
28-May-2024
10:32
firat



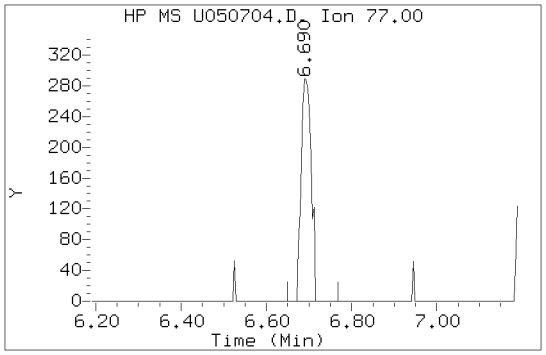
BEFORE

MASS
77
AREA
481
HEIGHT
289
07-May-2024
16:19
firat
tastan



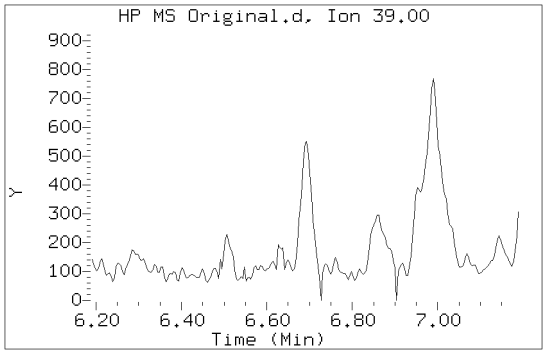
AFTER

MASS
77
AREA
481
HEIGHT
289
28-May-2024
10:32
firat



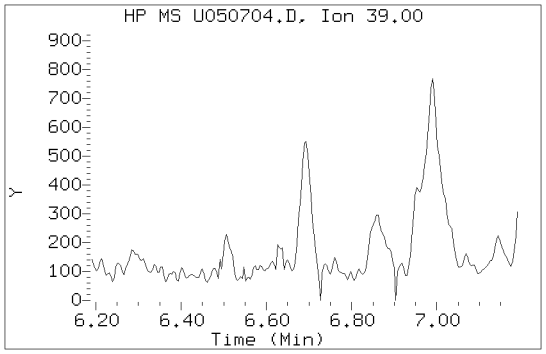
BEFORE

MASS
39
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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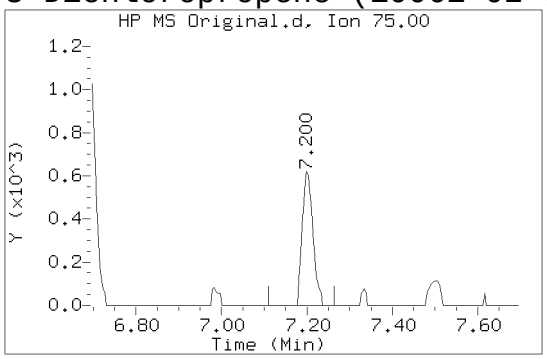
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

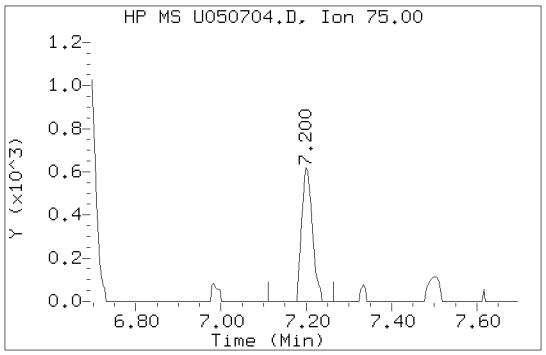
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

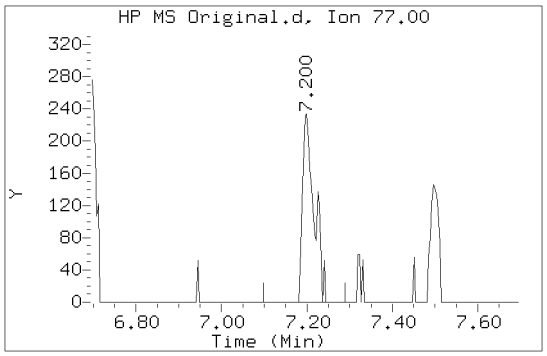
BEFORE
MASS
75
AREA
1103
HEIGHT
622
07-May-2024
16:19
firat
tastan



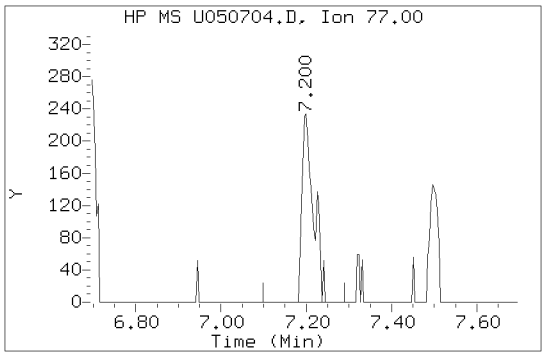
AFTER
MASS
75
AREA
1103
HEIGHT
622
28-May-2024
10:32
firat



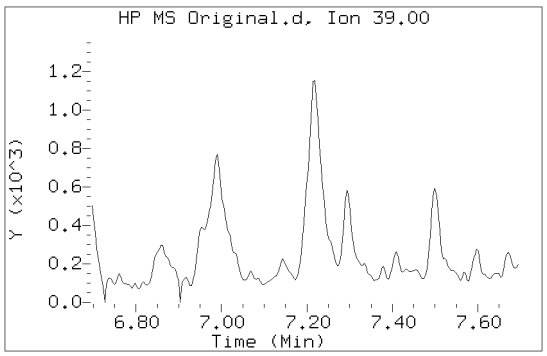
BEFORE
MASS
77
AREA
448
HEIGHT
234
07-May-2024
16:19
firat
tastan



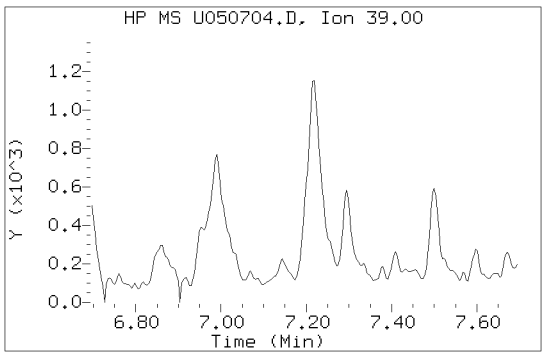
AFTER
MASS
77
AREA
448
HEIGHT
234
28-May-2024
10:32
firat



BEFORE
MASS
39
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



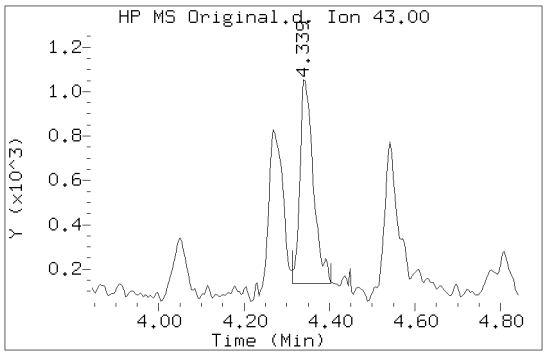
AFTER
MASS
39
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



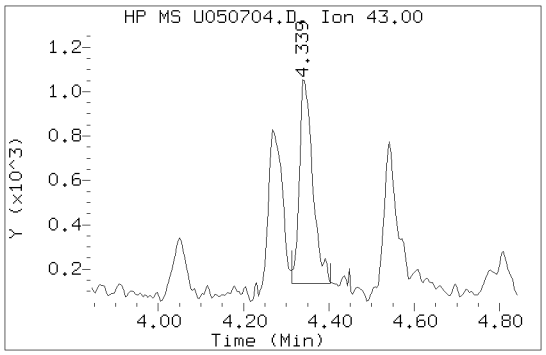
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
43
AREA
2021
HEIGHT
917
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
2021
HEIGHT
917
28-May-2024
10:32
firat



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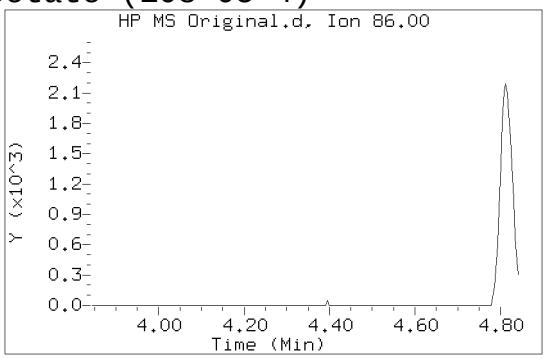
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

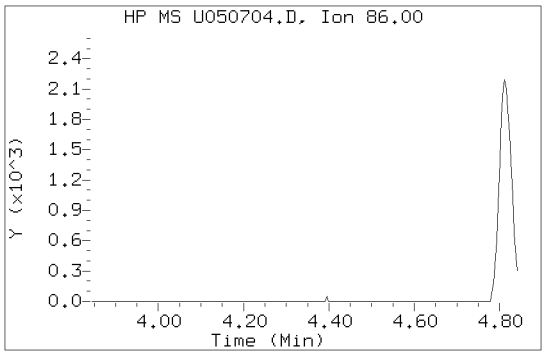
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

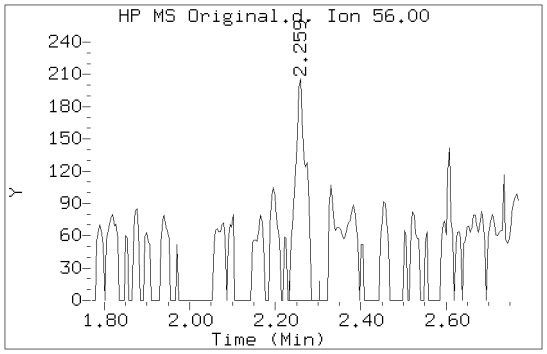


Acrolein (107-02-8)

Reason Code:

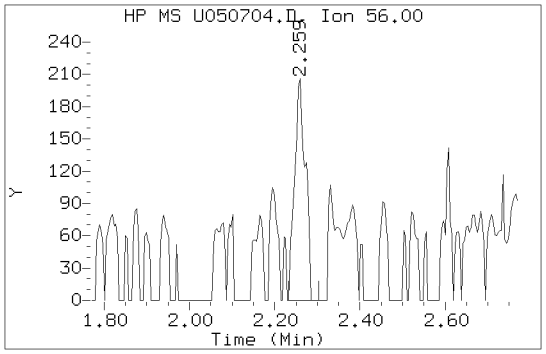
BEFORE

MASS
56
AREA
367
HEIGHT
206
07-May-2024
16:19
firat
tastan



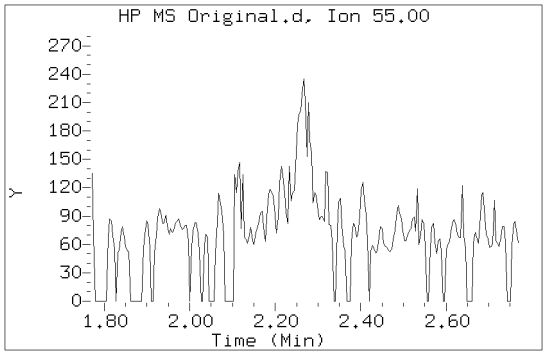
AFTER

MASS
56
AREA
367
HEIGHT
206
28-May-2024
10:32
firat



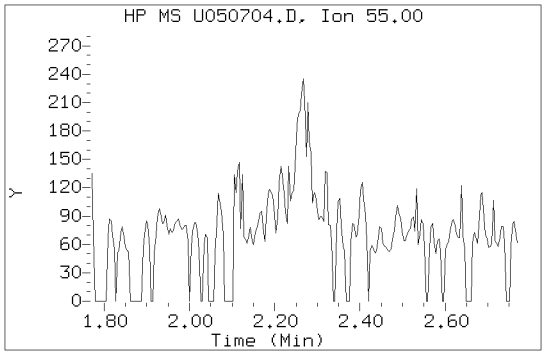
BEFORE

MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

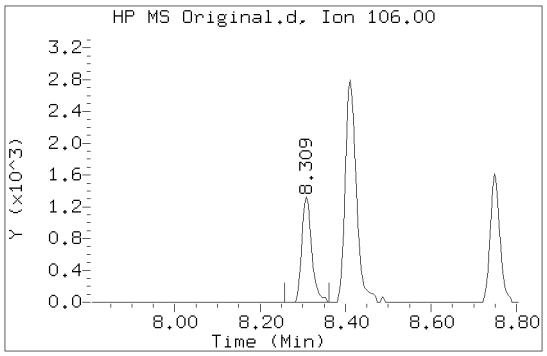


Ethylbenzene (100-41-4)

Reason Code:

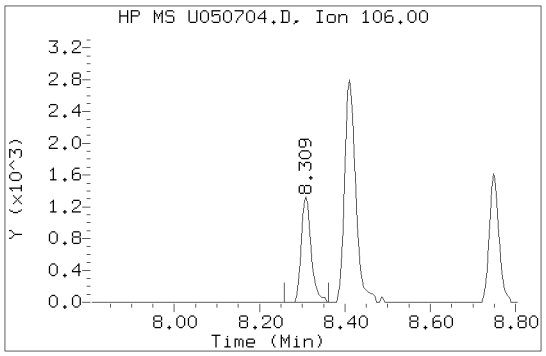
BEFORE

MASS
106
AREA
2177
HEIGHT
1328
07-May-2024
16:19
firat
tastan



AFTER

MASS
106
AREA
2177
HEIGHT
1328
28-May-2024
10:32
firat



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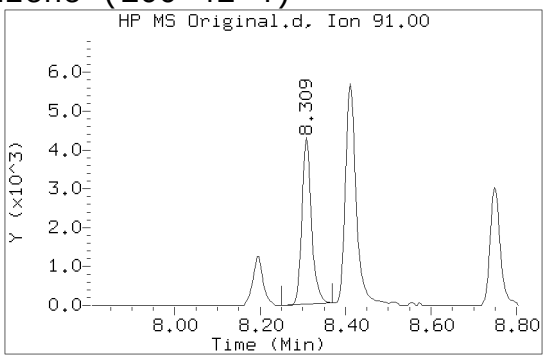
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Ethylbenzene (100-41-4)

Reason Code:

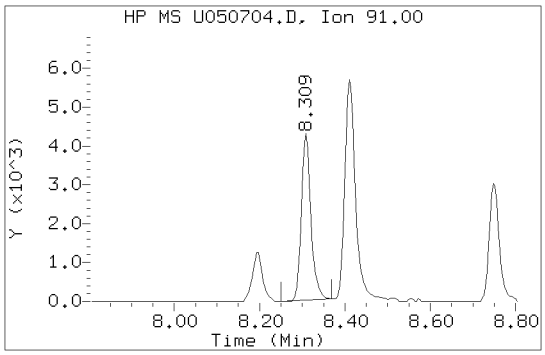
BEFORE

MASS
91
AREA
6734
HEIGHT
4282
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
6734
HEIGHT
4282
28-May-2024
10:32
firat

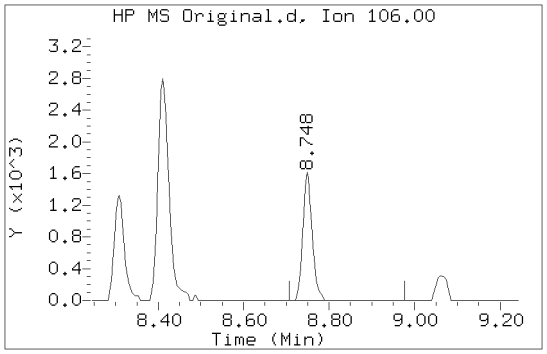


o-Xylene (95-47-6)

Reason Code:

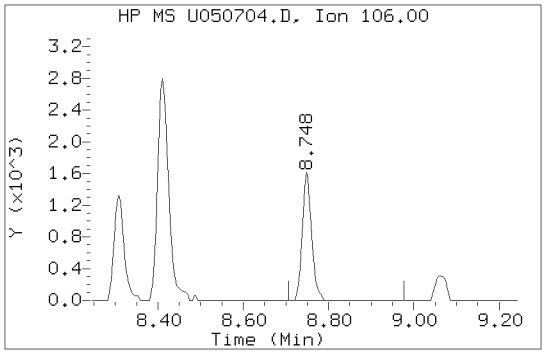
BEFORE

MASS
106
AREA
2506
HEIGHT
1621
07-May-2024
16:19
firat
tastan



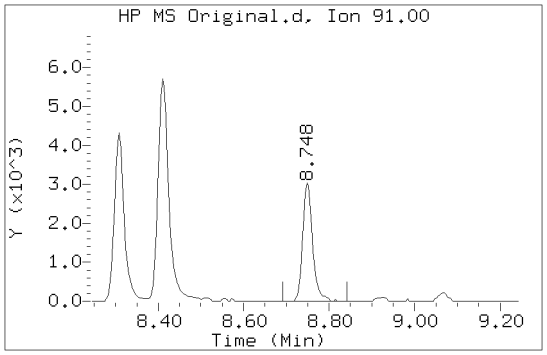
AFTER

MASS
106
AREA
2506
HEIGHT
1621
28-May-2024
10:32
firat



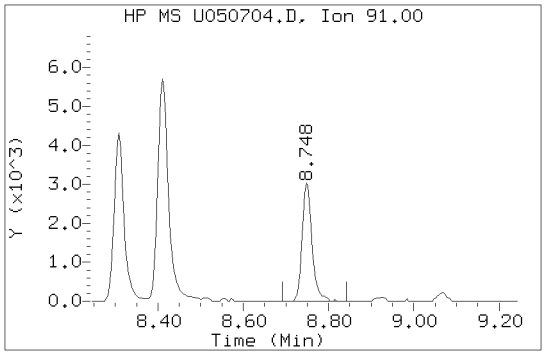
BEFORE

MASS
91
AREA
5014
HEIGHT
3035
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
5014
HEIGHT
3035
28-May-2024
10:32
firat

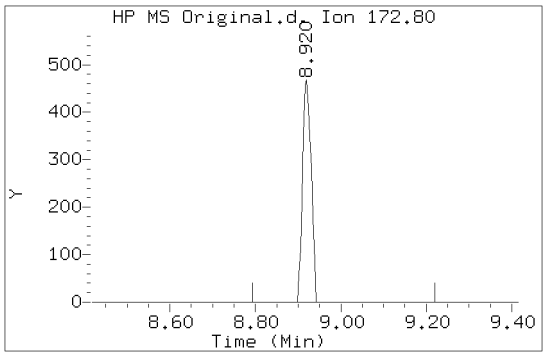


Bromoform (75-25-2)

Reason Code:

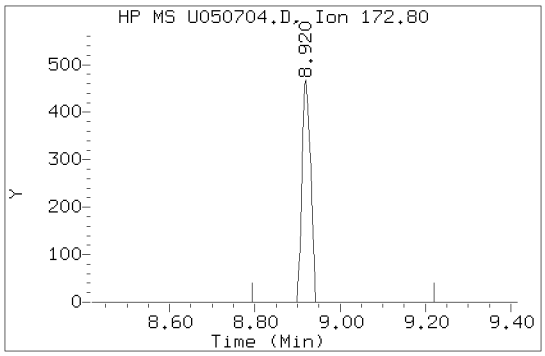
BEFORE

MASS
172.8
AREA
666
HEIGHT
468
07-May-2024
16:19
firat
tastan



AFTER

MASS
172.8
AREA
666
HEIGHT
468
28-May-2024
10:32
firat



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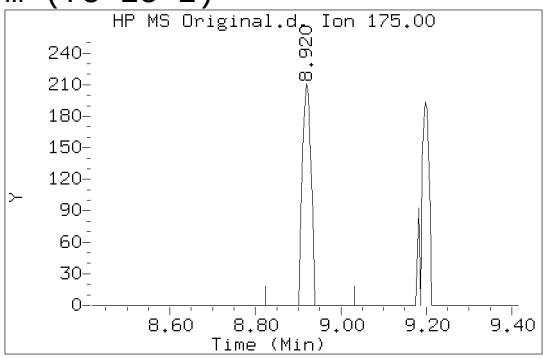
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

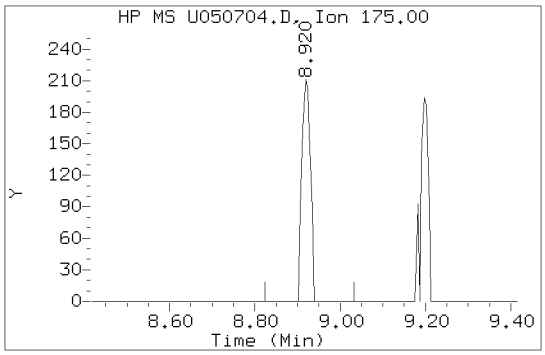
BEFORE

MASS
175
AREA
303
HEIGHT
211
07-May-2024
16:19
firat
tastan



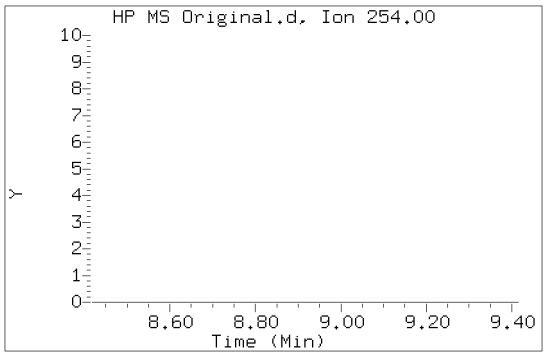
AFTER

MASS
175
AREA
303
HEIGHT
211
28-May-2024
10:32
firat



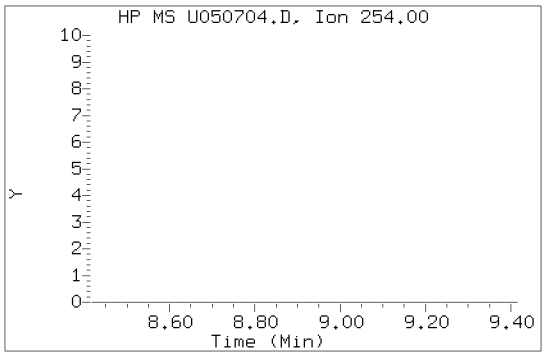
BEFORE

MASS
254
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
254
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

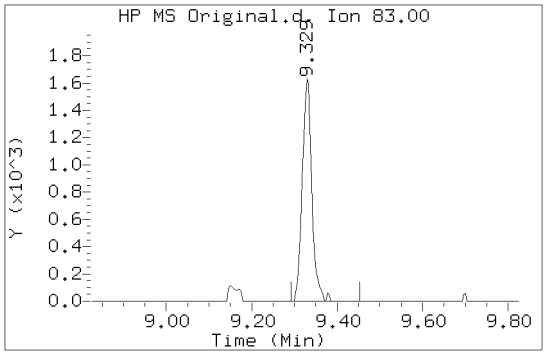


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

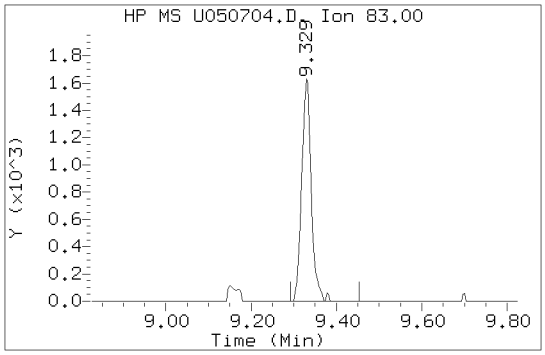
BEFORE

MASS
83
AREA
2612
HEIGHT
1630
07-May-2024
16:19
firat
tastan



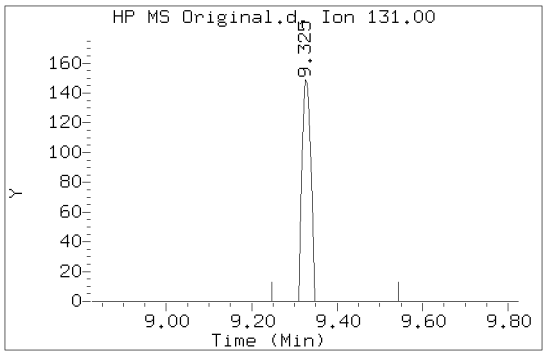
AFTER

MASS
83
AREA
2612
HEIGHT
1630
28-May-2024
10:32
firat



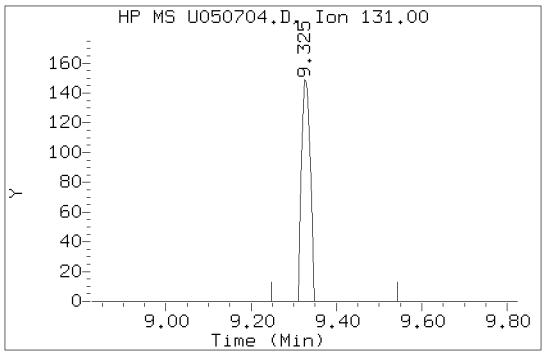
BEFORE

MASS
131
AREA
218
HEIGHT
149
07-May-2024
16:19
firat
tastan



AFTER

MASS
131
AREA
218
HEIGHT
149
28-May-2024
10:32
firat



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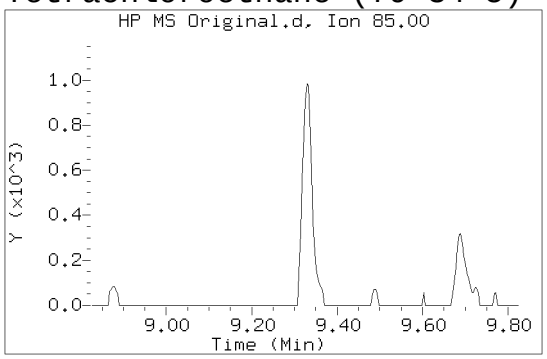
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

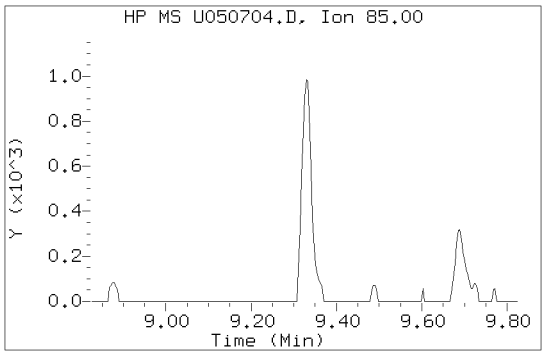
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

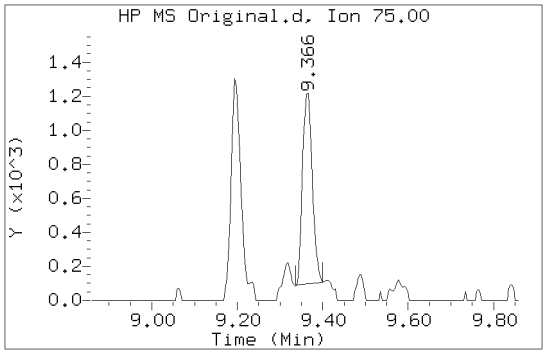


1,2,3-Trichloropropane (96-18-4)

Reason Code:

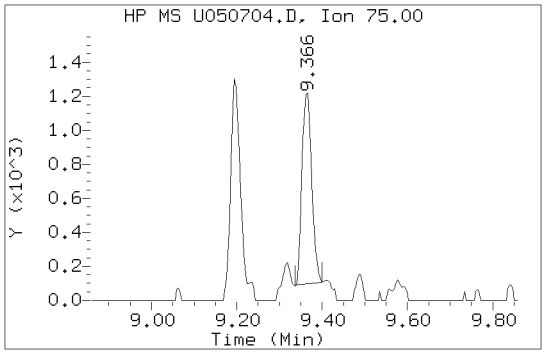
BEFORE

MASS
75
AREA
1812
HEIGHT
1119
07-May-2024
16:19
firat
tastan



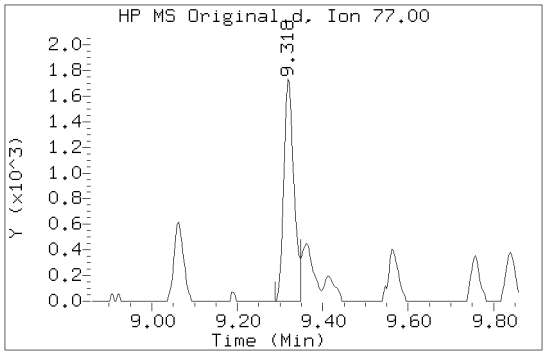
AFTER

MASS
75
AREA
1812
HEIGHT
1119
28-May-2024
10:32
firat



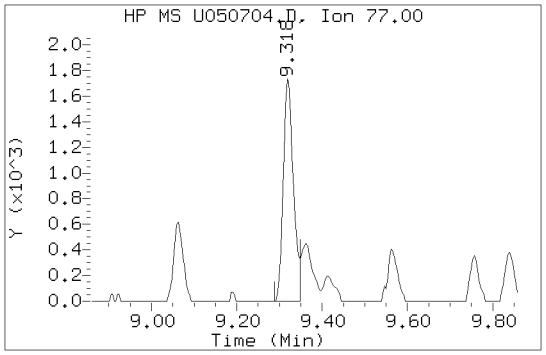
BEFORE

MASS
77
AREA
2872
HEIGHT
1734
07-May-2024
16:19
firat
tastan



AFTER

MASS
77
AREA
2872
HEIGHT
1734
28-May-2024
10:32
firat

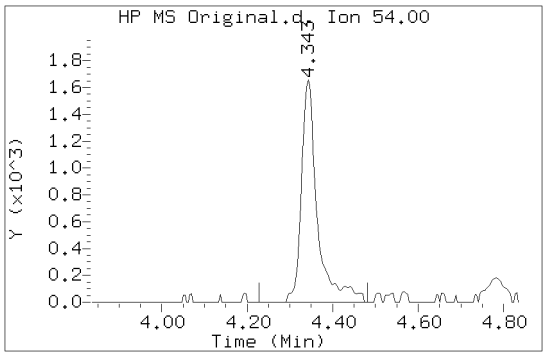


Propionitrile (107-12-0)

Reason Code:

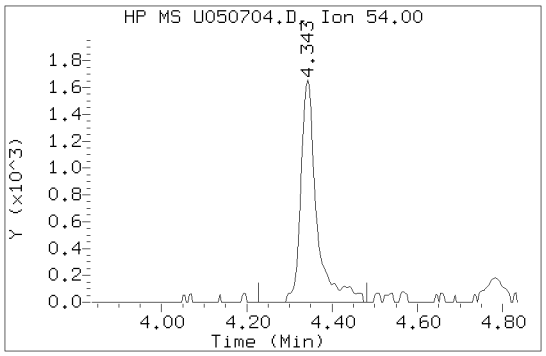
BEFORE

MASS
54
AREA
4378
HEIGHT
1657
07-May-2024
16:19
firat
tastan



AFTER

MASS
54
AREA
4378
HEIGHT
1657
28-May-2024
10:32
firat



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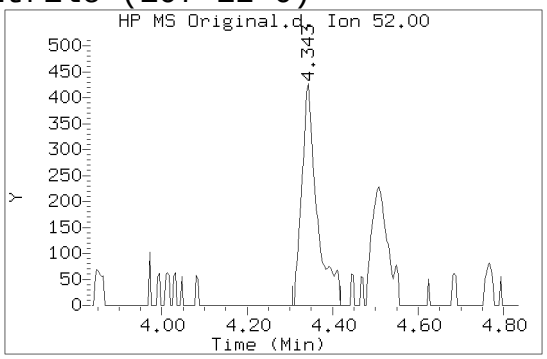
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

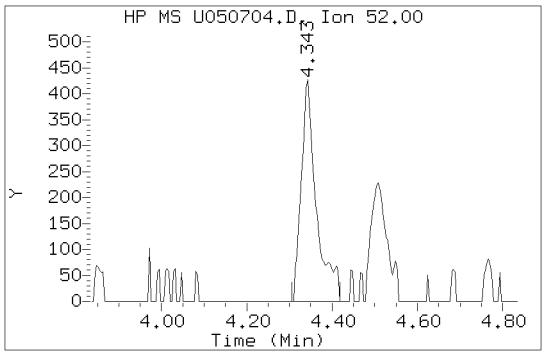
BEFORE

MASS
52
AREA
1065
HEIGHT
427
07-May-2024
16:19
firat
tastan



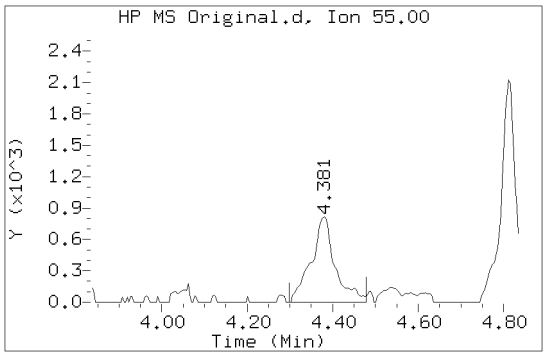
AFTER

MASS
52
AREA
1065
HEIGHT
427
28-May-2024
10:32
firat



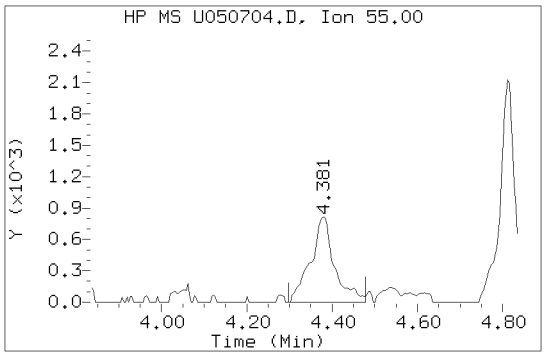
BEFORE

MASS
55
AREA
3198
HEIGHT
820
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
3198
HEIGHT
820
28-May-2024
10:32
firat

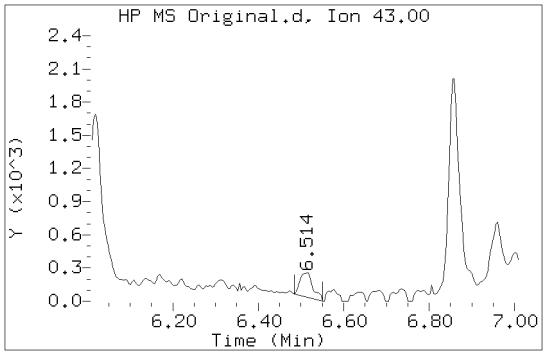


2-Nitropropane (79-46-9)

Reason Code:

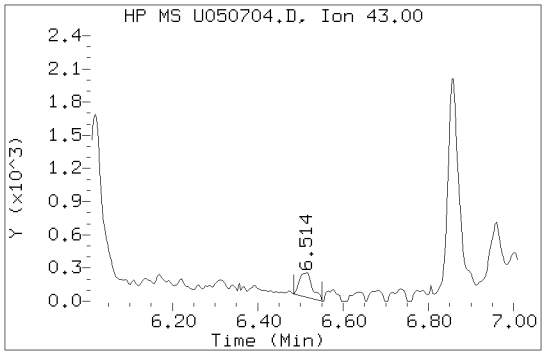
BEFORE

MASS
43
AREA
471
HEIGHT
221
07-May-2024
16:19
firat
tastan



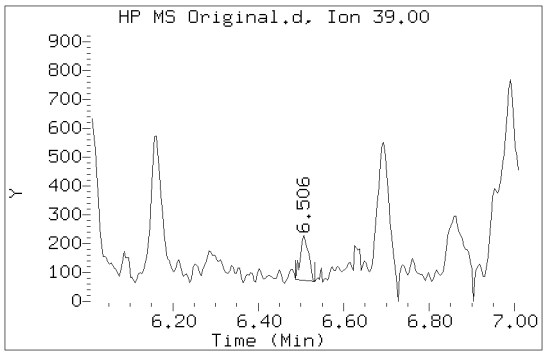
AFTER

MASS
43
AREA
471
HEIGHT
221
28-May-2024
10:32
firat



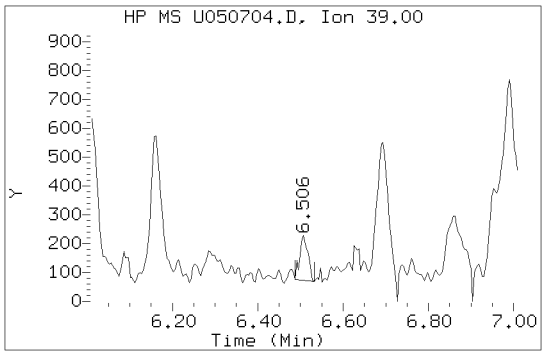
BEFORE

MASS
39
AREA
211
HEIGHT
155
07-May-2024
16:19
firat
tastan



AFTER

MASS
39
AREA
211
HEIGHT
155
28-May-2024
10:32
firat



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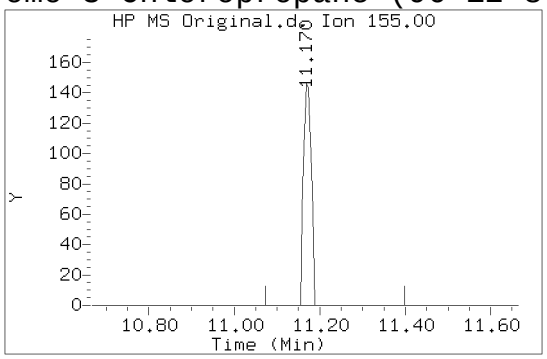
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

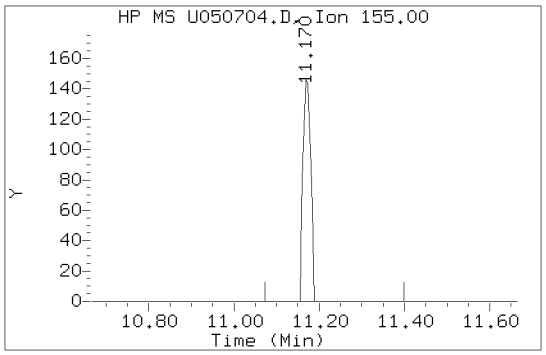
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

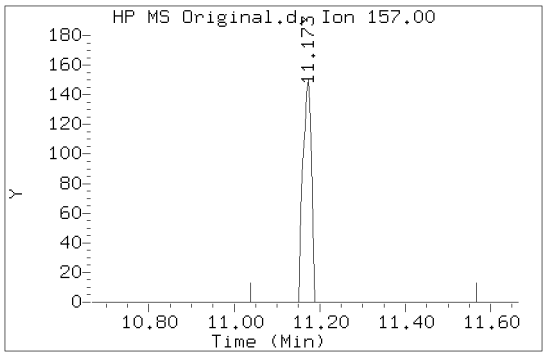
BEFORE
MASS
155
AREA
188
HEIGHT
146
07-May-2024
16:19
firat
tastan



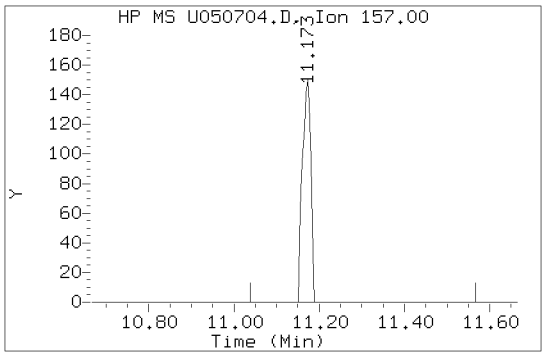
AFTER
MASS
155
AREA
188
HEIGHT
146
28-May-2024
10:32
firat



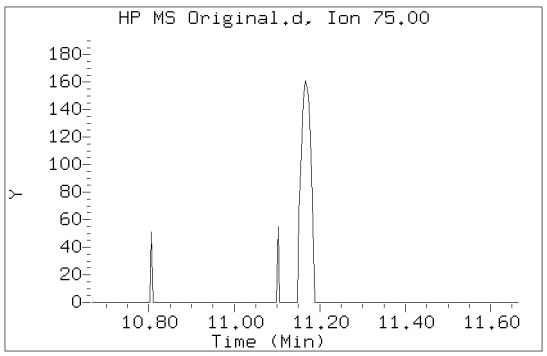
BEFORE
MASS
157
AREA
211
HEIGHT
150
07-May-2024
16:19
firat
tastan



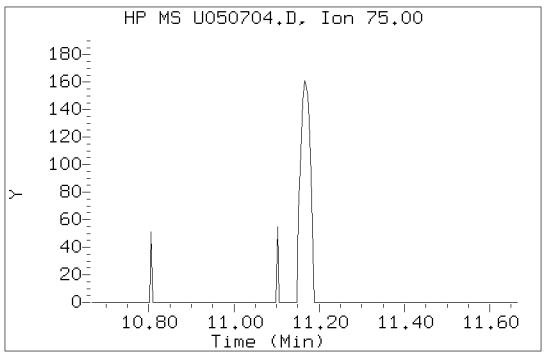
AFTER
MASS
157
AREA
211
HEIGHT
150
28-May-2024
10:32
firat



BEFORE
MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



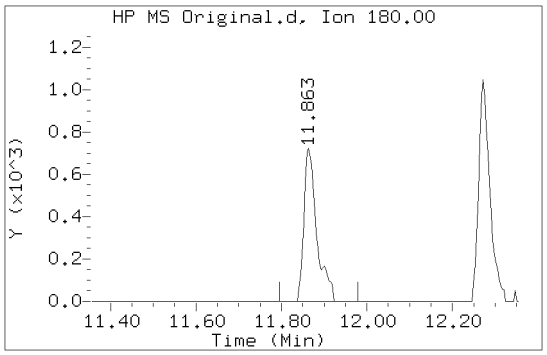
AFTER
MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



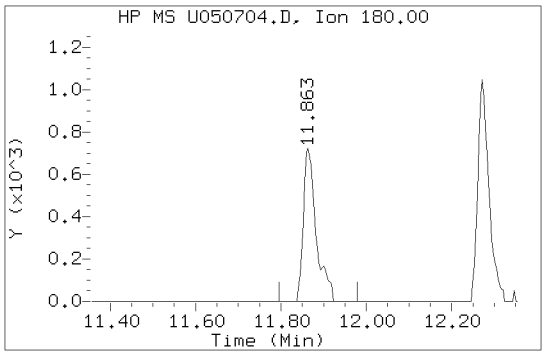
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
1543
HEIGHT
725
07-May-2024
16:19
firat
tastan



AFTER
MASS
180
AREA
1543
HEIGHT
725
28-May-2024
10:32
firat



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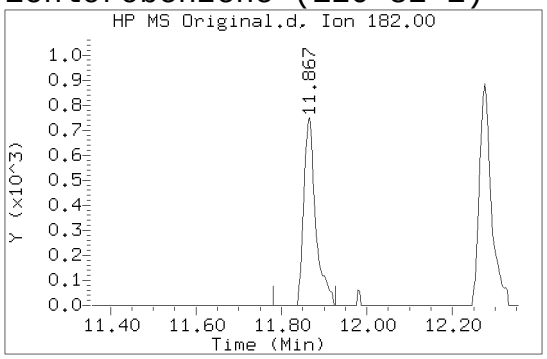
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

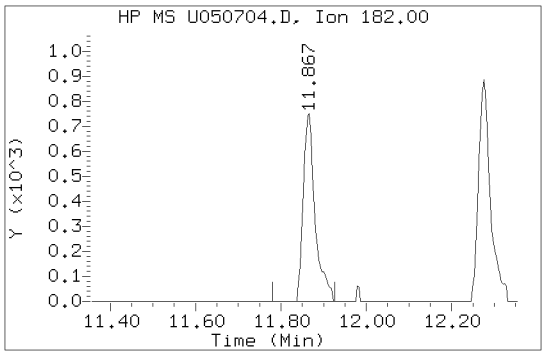
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

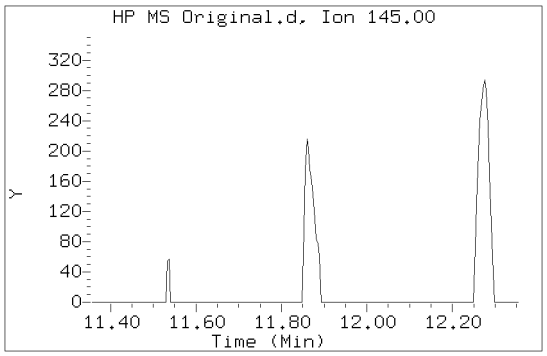
BEFORE
MASS
182
AREA
1489
HEIGHT
750
07-May-2024
16:19
firat
tastan



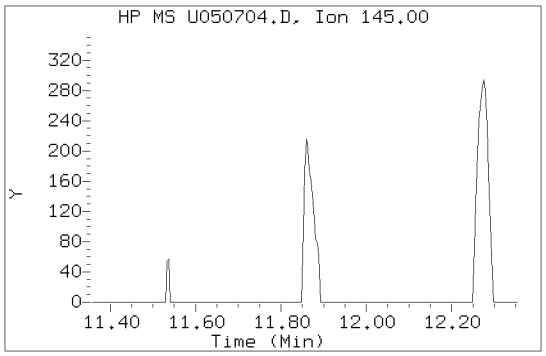
AFTER
MASS
182
AREA
1489
HEIGHT
750
28-May-2024
10:32
firat



BEFORE
MASS
145
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



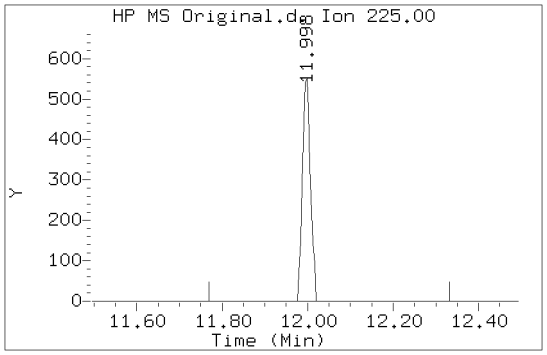
AFTER
MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



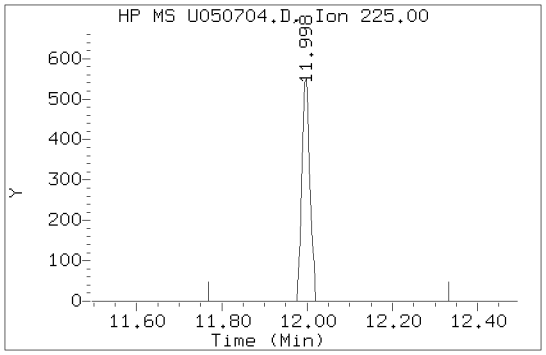
Hexachlorobutadiene (87-68-3)

Reason Code:

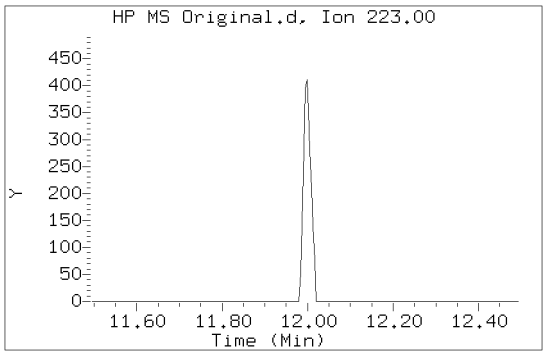
BEFORE
MASS
225
AREA
743
HEIGHT
550
07-May-2024
16:19
firat
tastan



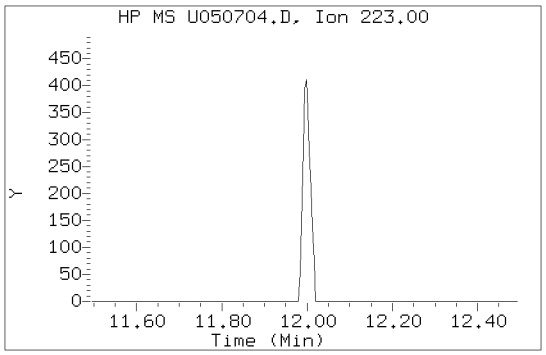
AFTER
MASS
225
AREA
743
HEIGHT
550
28-May-2024
10:32
firat



BEFORE
MASS
223
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
223
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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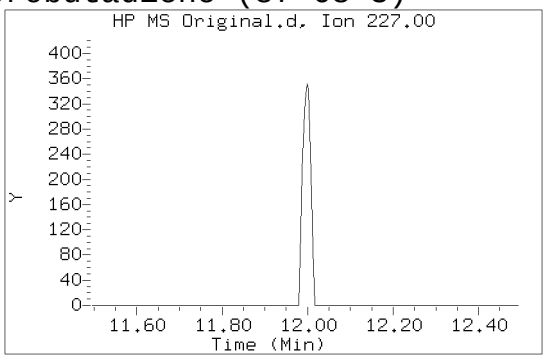
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

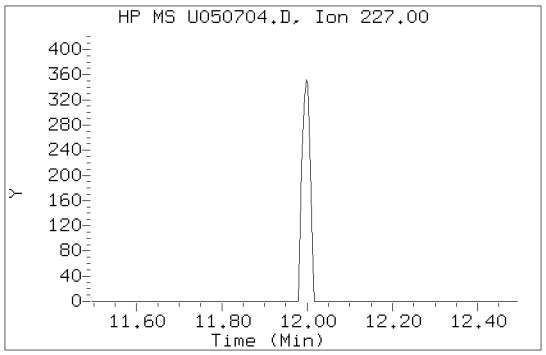
BEFORE

MASS
227
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

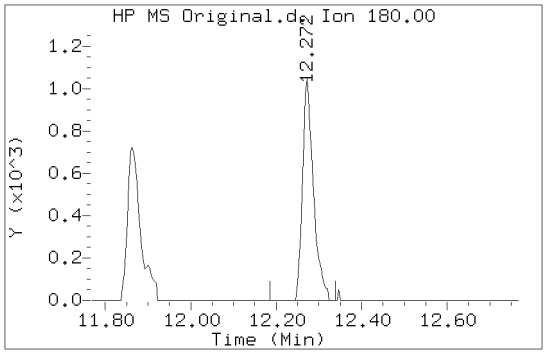


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

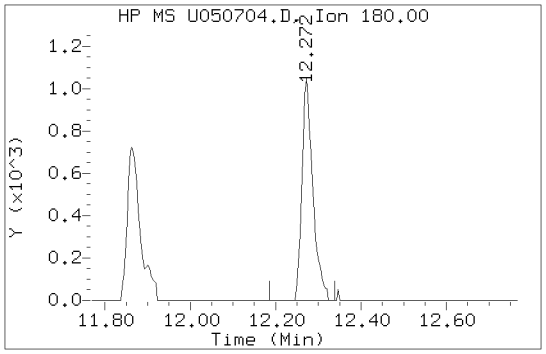
BEFORE

MASS
180
AREA
1899
HEIGHT
1047
07-May-2024
16:19
firat
tastan



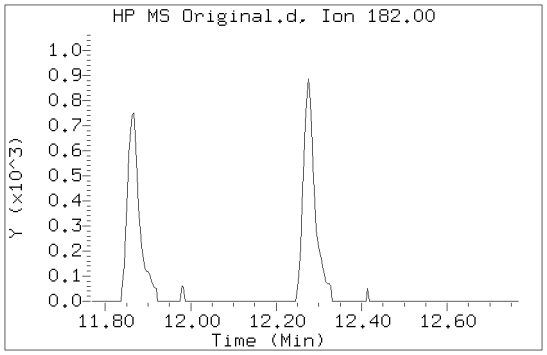
AFTER

MASS
180
AREA
1899
HEIGHT
1047
28-May-2024
10:32
firat



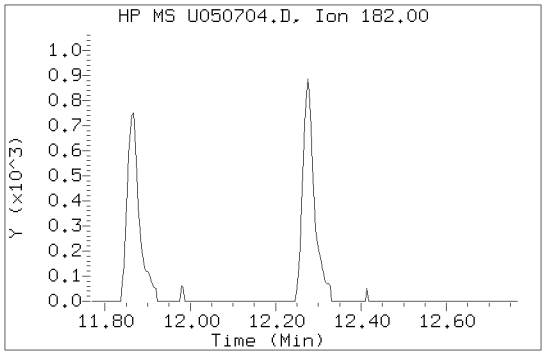
BEFORE

MASS
182
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



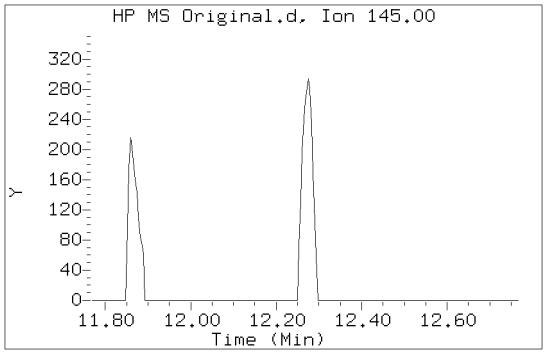
AFTER

MASS
182
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



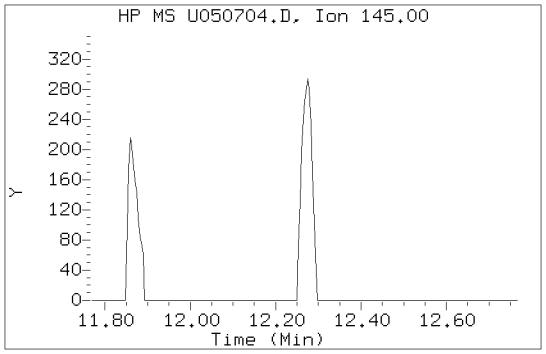
BEFORE

MASS
145
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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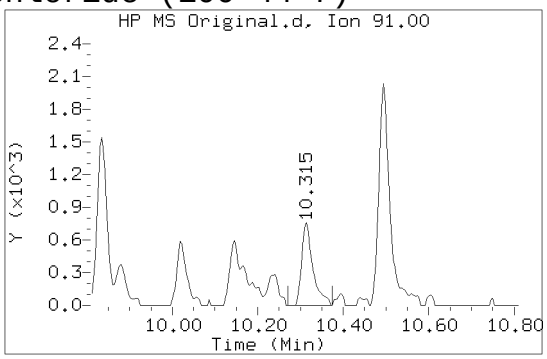
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

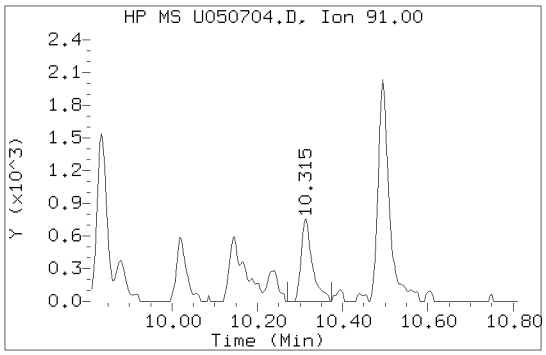
Benzyl Chloride (100-44-7)

Reason Code:

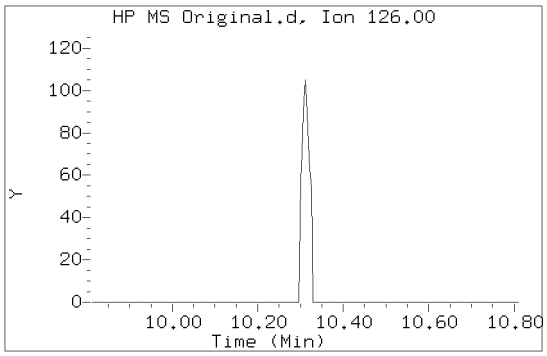
BEFORE
MASS
91
AREA
1403
HEIGHT
761
07-May-2024
16:19
firat
tastan



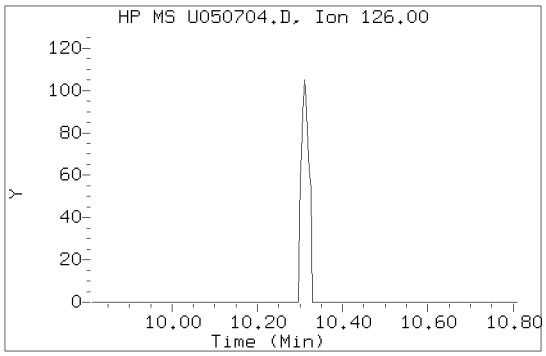
AFTER
MASS
91
AREA
1403
HEIGHT
761
28-May-2024
10:32
firat



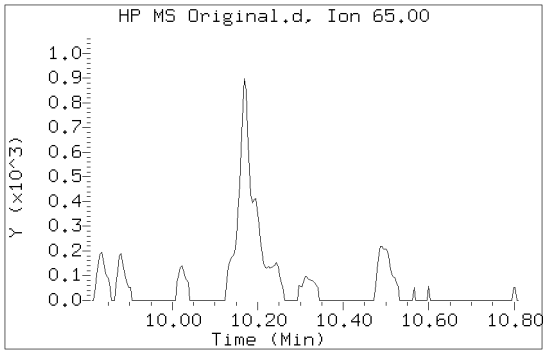
BEFORE
MASS
126
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



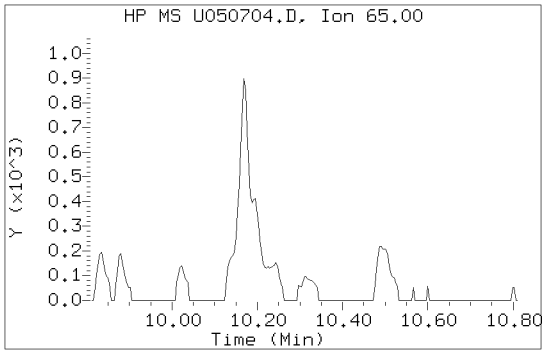
AFTER
MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



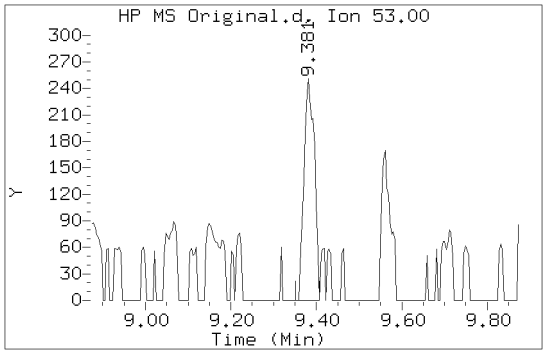
AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



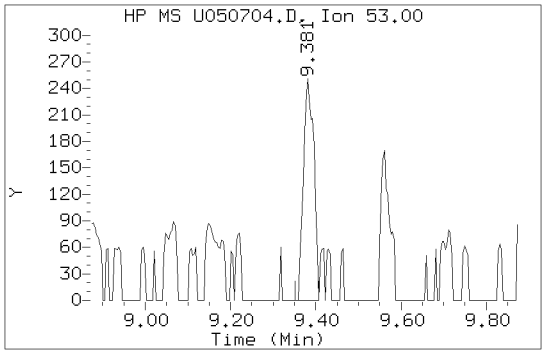
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
435
HEIGHT
251
07-May-2024
16:19
firat
tastan



AFTER
MASS
53
AREA
435
HEIGHT
251
28-May-2024
10:32
firat



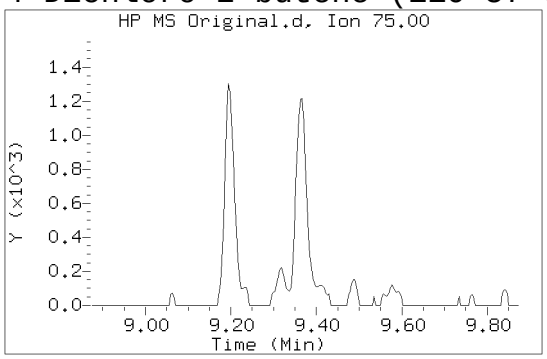
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

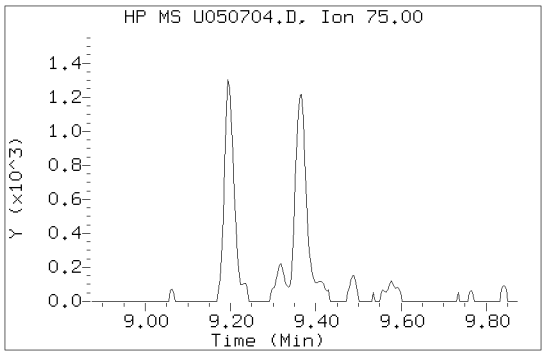
BEFORE

MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

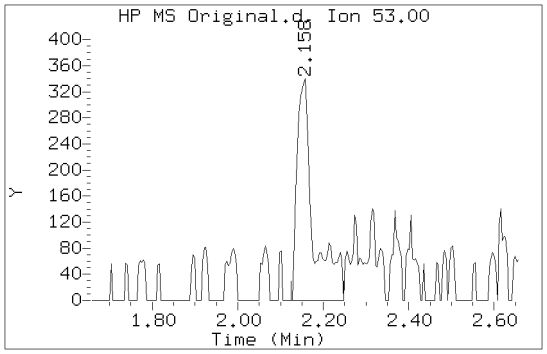


Chloroprene (126-99-8)

Reason Code:

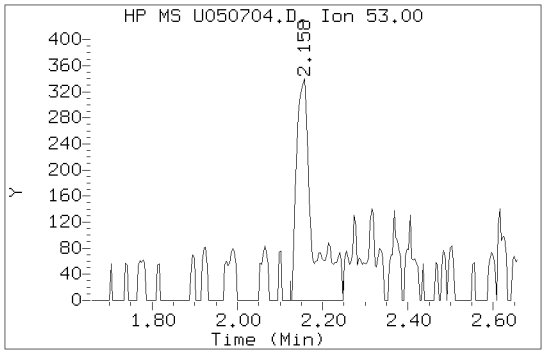
BEFORE

MASS
53
AREA
924
HEIGHT
340
07-May-2024
16:19
firat
tastan



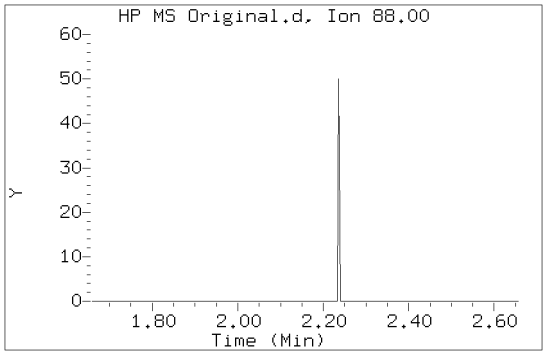
AFTER

MASS
53
AREA
924
HEIGHT
340
28-May-2024
10:32
firat



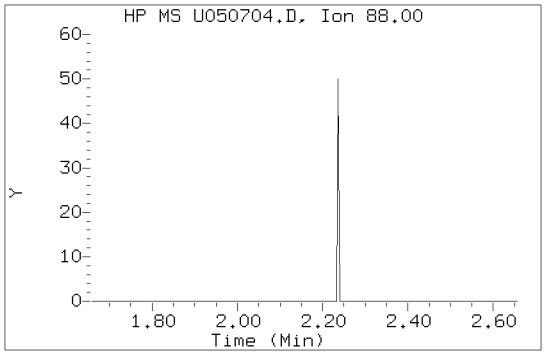
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

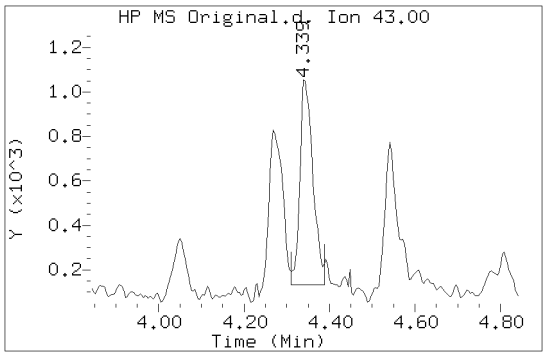


Ethyl Acetate (141-78-6)

Reason Code:

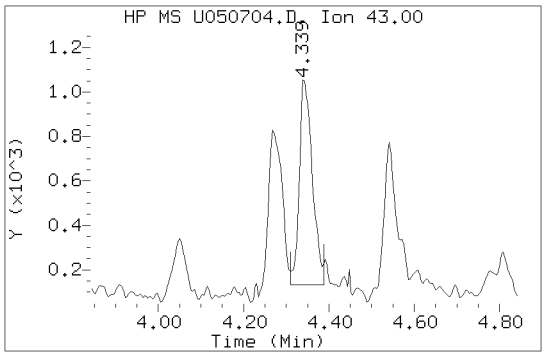
BEFORE

MASS
43
AREA
1997
HEIGHT
920
07-May-2024
16:19
firat
tastan



AFTER

MASS
43
AREA
1997
HEIGHT
920
28-May-2024
10:32
firat

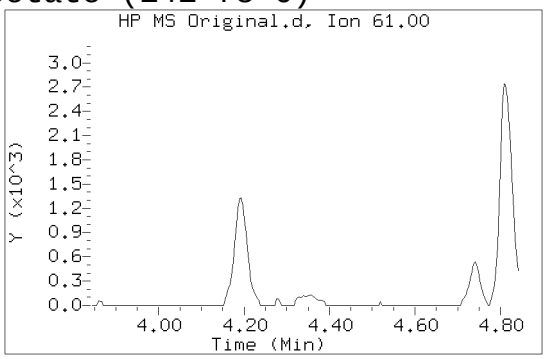


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050704.D
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

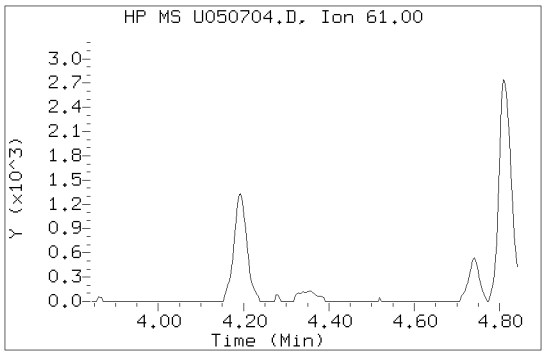
Ethyl Acetate (141-78-6)

Reason Code:

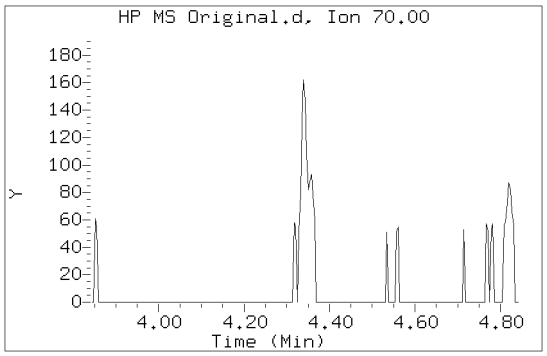
BEFORE
MASS
61
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



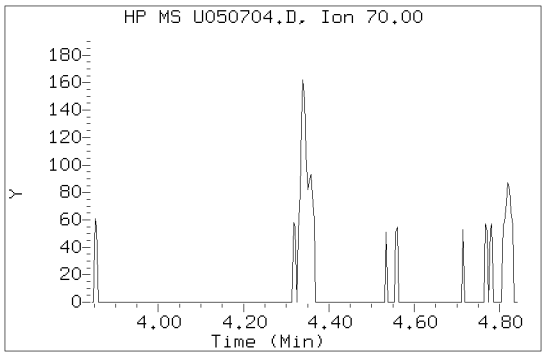
AFTER
MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
70
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



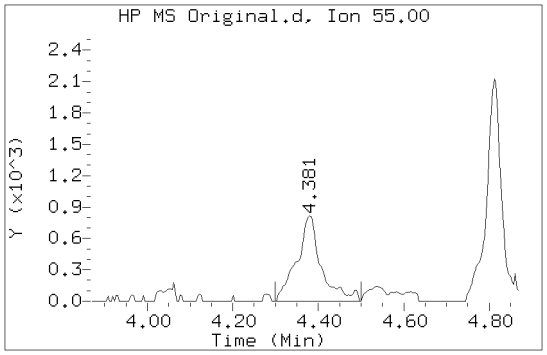
AFTER
MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



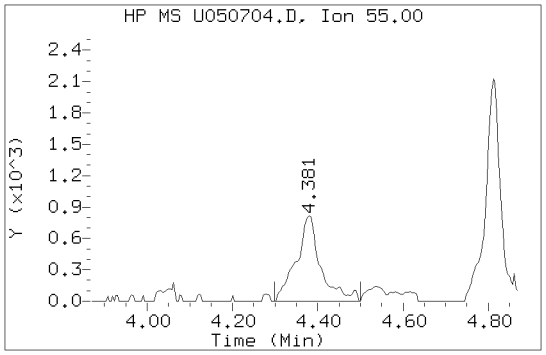
Methyl Acrylate (96-33-3)

Reason Code:

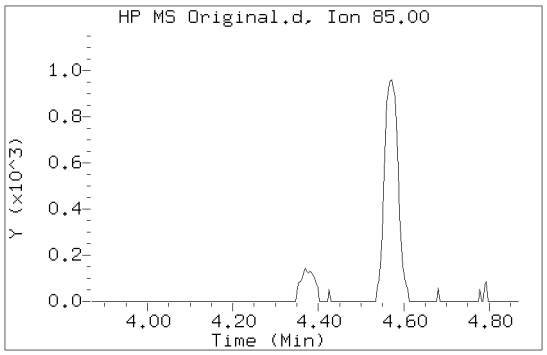
BEFORE
MASS
55
AREA
3276
HEIGHT
820
07-May-2024
16:19
firat
tastan



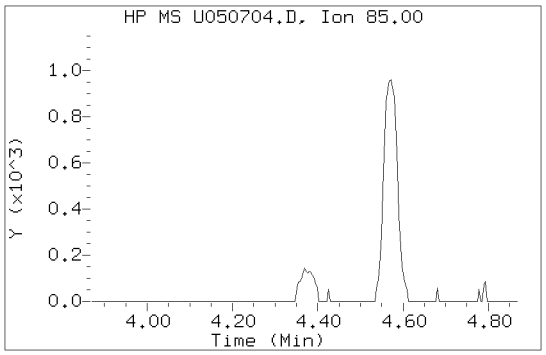
AFTER
MASS
55
AREA
3276
HEIGHT
820
28-May-2024
10:32
firat



BEFORE
MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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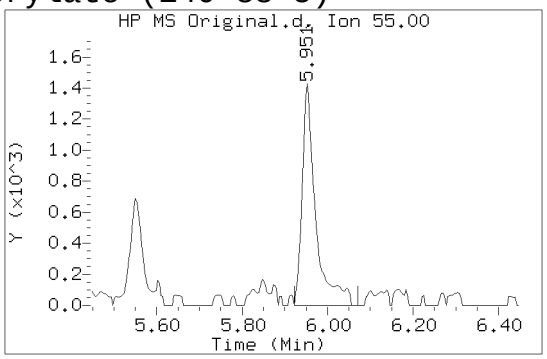
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

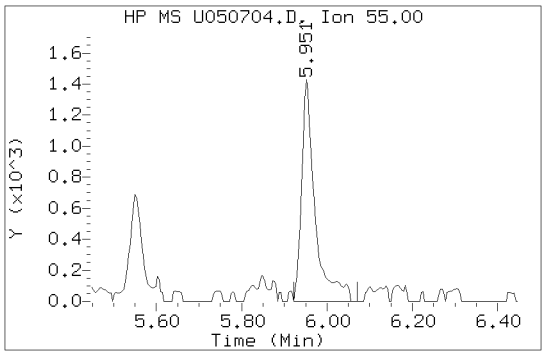
BEFORE

MASS
55
AREA
3187
HEIGHT
1428
07-May-2024
16:19
firat
tastan



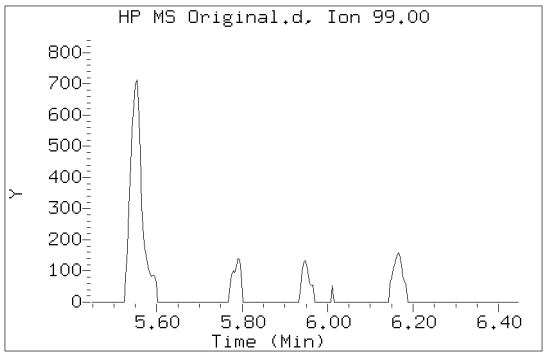
AFTER

MASS
55
AREA
3187
HEIGHT
1428
28-May-2024
10:32
firat



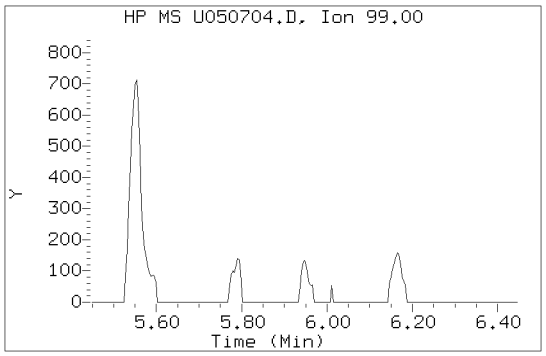
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

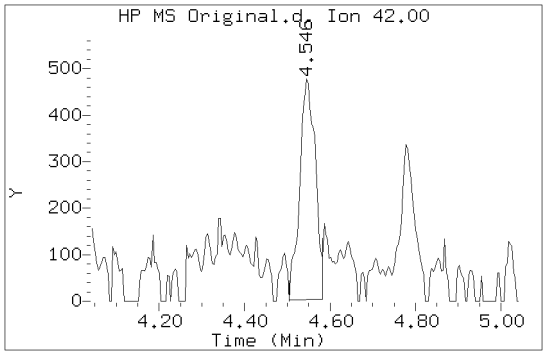


Tetrahydrofuran (109-99-9)

Reason Code:

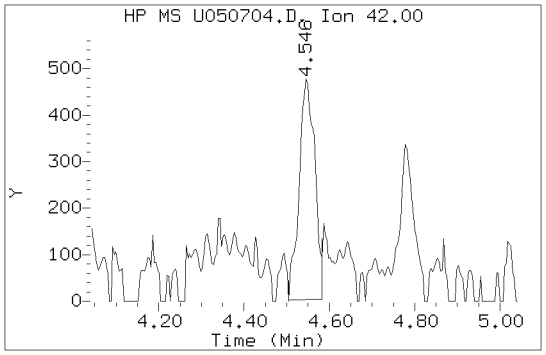
BEFORE

MASS
42
AREA
1229
HEIGHT
474
07-May-2024
16:19
firat
tastan



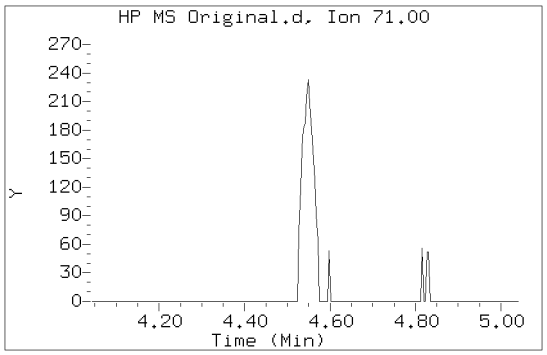
AFTER

MASS
42
AREA
1229
HEIGHT
474
28-May-2024
10:32
firat



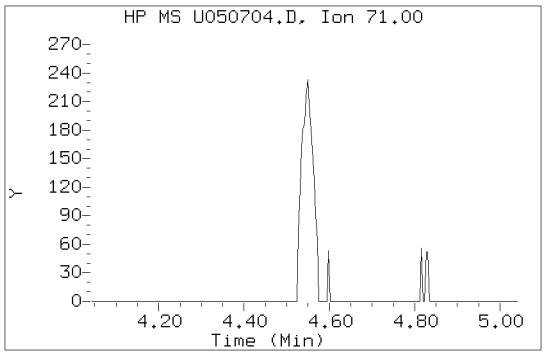
BEFORE

MASS
71
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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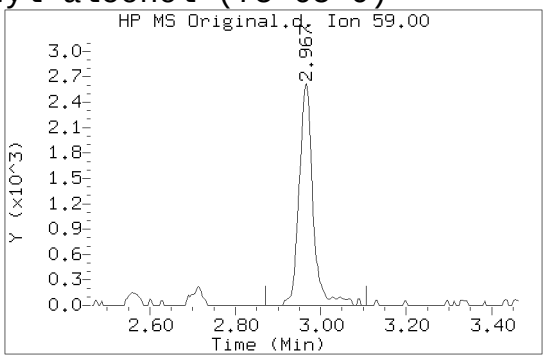
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Tert-butyl alcohol (75-65-0)

Reason Code:

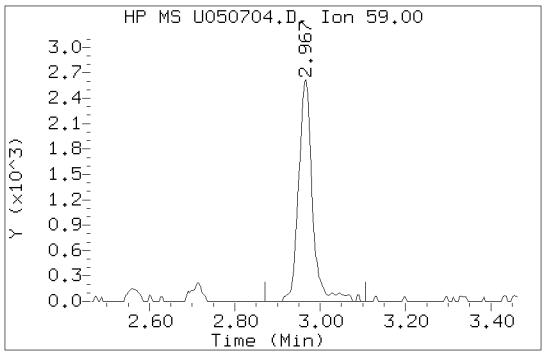
BEFORE

MASS
59
AREA
6018
HEIGHT
2619
07-May-2024
16:19
firat
tastan



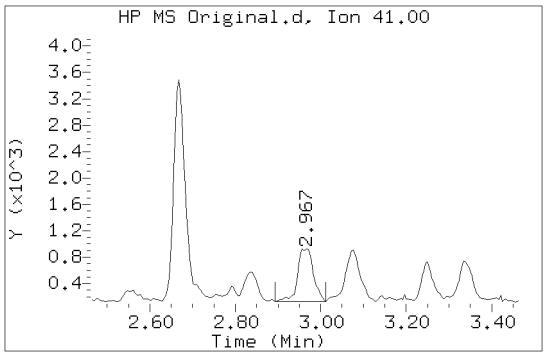
AFTER

MASS
59
AREA
6018
HEIGHT
2619
28-May-2024
10:32
firat



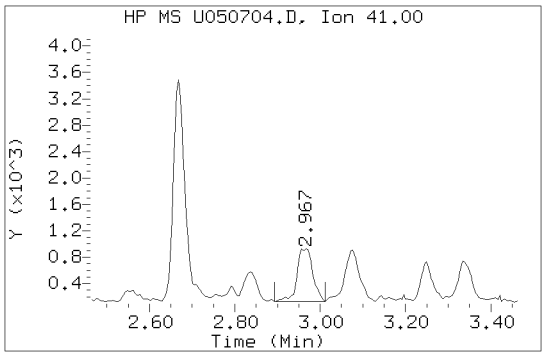
BEFORE

MASS
41
AREA
2077
HEIGHT
800
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
2077
HEIGHT
800
28-May-2024
10:32
firat

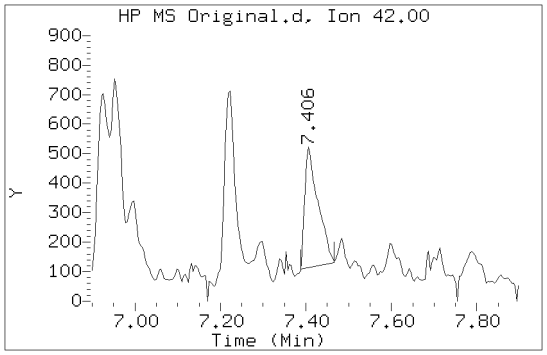


Amyl alcohol (71-41-0)

Reason Code:

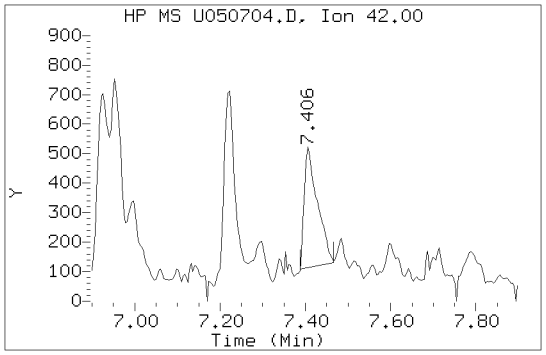
BEFORE

MASS
42
AREA
878
HEIGHT
408
07-May-2024
16:19
firat
tastan



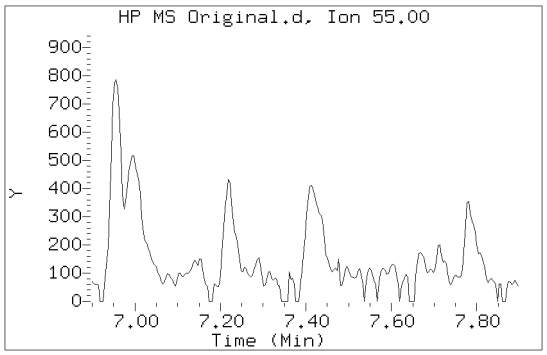
AFTER

MASS
42
AREA
878
HEIGHT
408
28-May-2024
10:32
firat



BEFORE

MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
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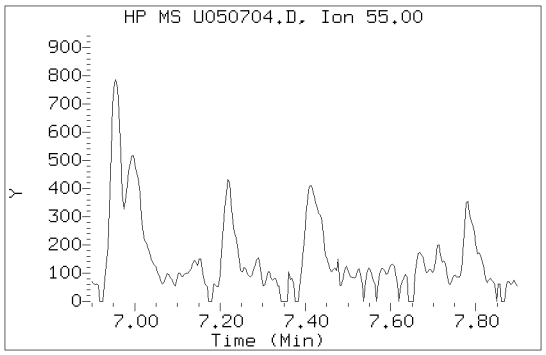
HEIGHT
0
28-May-2024
10:32
firat



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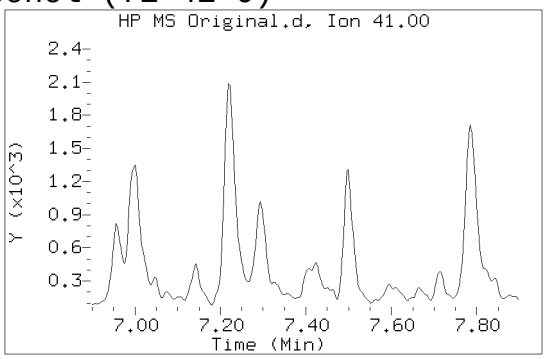
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

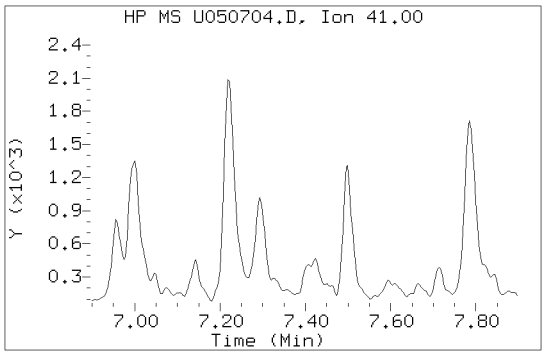
Amyl alcohol (71-41-0)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



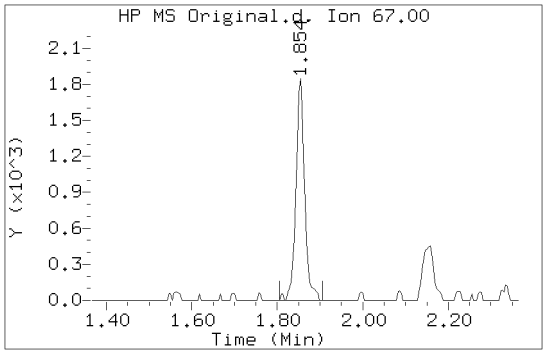
AFTER
MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



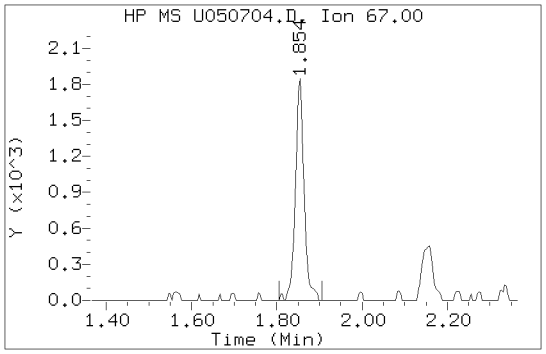
Dichlorofluoromethane (75-43-4)

Reason Code:

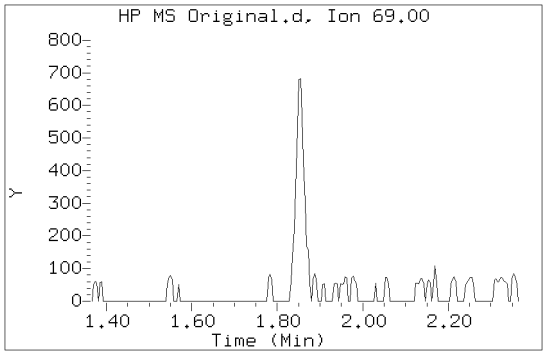
BEFORE
MASS
67
AREA
2684
HEIGHT
1847
07-May-2024
16:19
firat
tastan



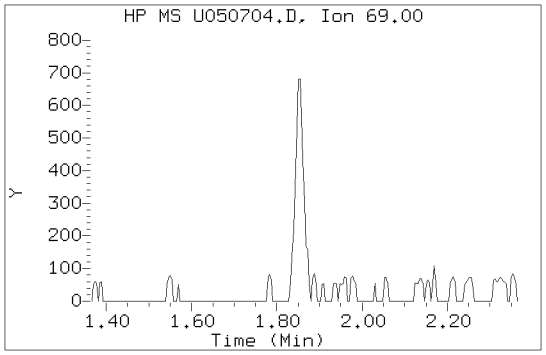
AFTER
MASS
67
AREA
2684
HEIGHT
1847
28-May-2024
10:32
firat



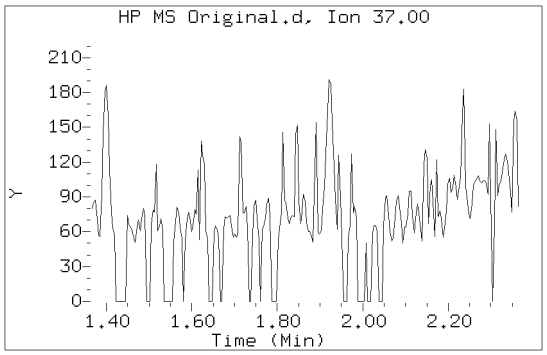
BEFORE
MASS
69
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



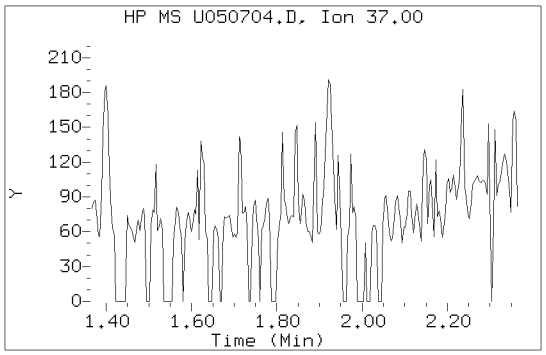
AFTER
MASS
69
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
37
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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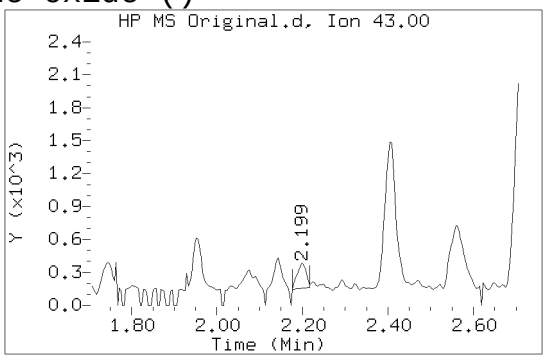
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

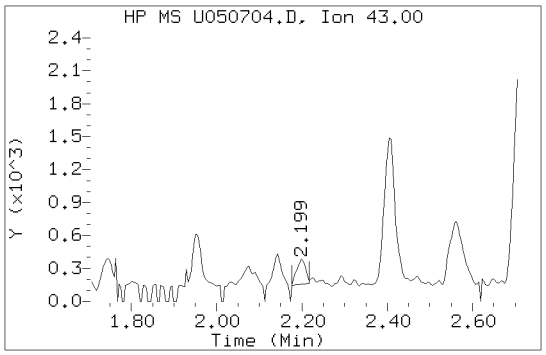
Propylene oxide ()

Reason Code:

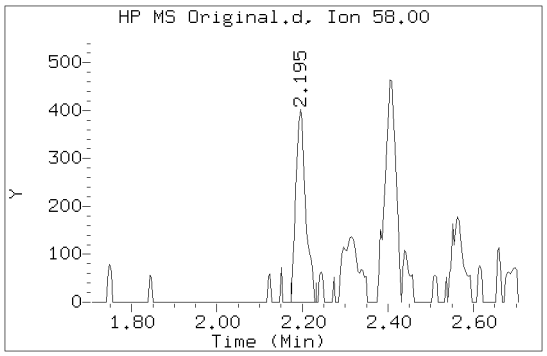
BEFORE
MASS
43
AREA
349
HEIGHT
231
07-May-2024
16:19
firat
tastan



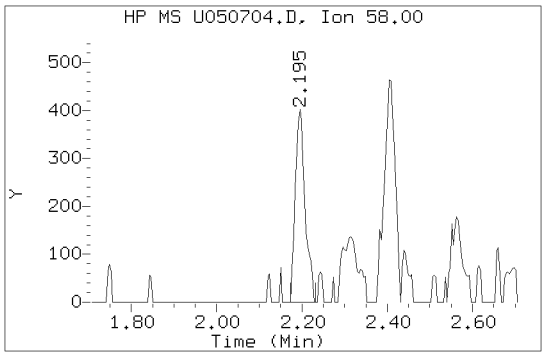
AFTER
MASS
43
AREA
349
HEIGHT
231
28-May-2024
10:32
firat



BEFORE
MASS
58
AREA
659
HEIGHT
403
07-May-2024
16:19
firat
tastan



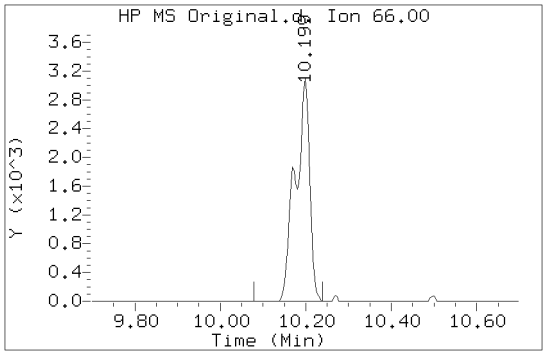
AFTER
MASS
58
AREA
659
HEIGHT
403
28-May-2024
10:32
firat



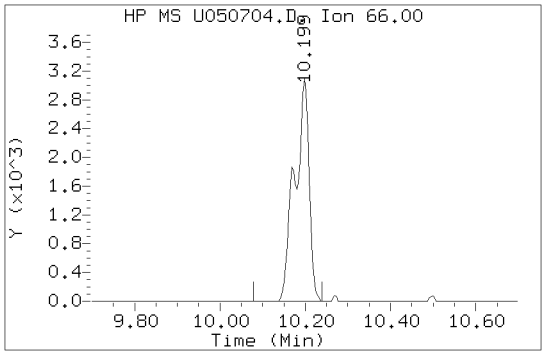
Dicyclopentadiene (77-73-6)

Reason Code:

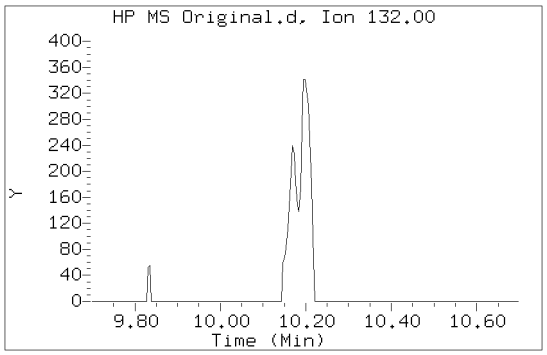
BEFORE
MASS
66
AREA
7350
HEIGHT
3091
07-May-2024
16:19
firat
tastan



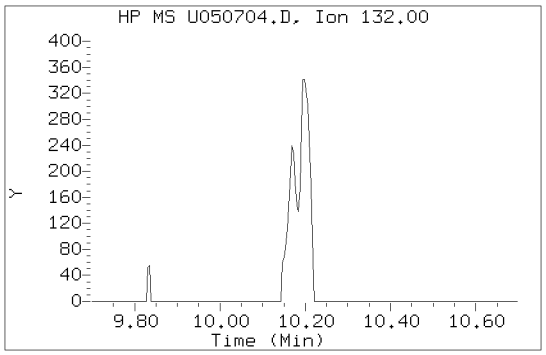
AFTER
MASS
66
AREA
7350
HEIGHT
3091
28-May-2024
10:32
firat



BEFORE
MASS
132
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
132
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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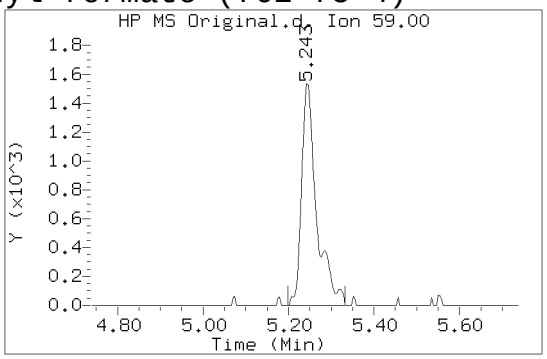
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

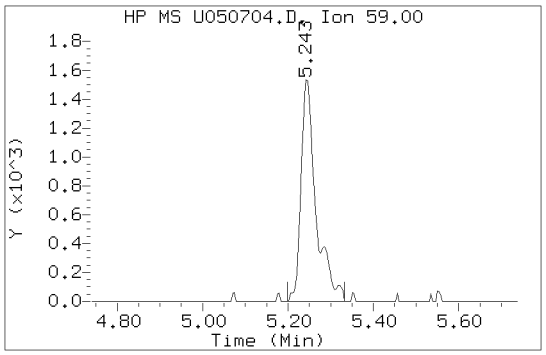
BEFORE

MASS
59
AREA
3827
HEIGHT
1535
07-May-2024
16:19
firat
tastan



AFTER

MASS
59
AREA
3827
HEIGHT
1535
28-May-2024
10:32
firat



BEFORE

MASS
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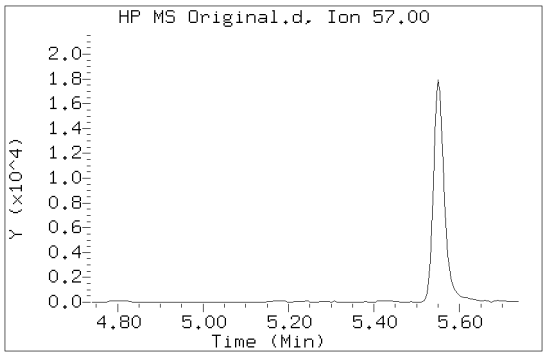
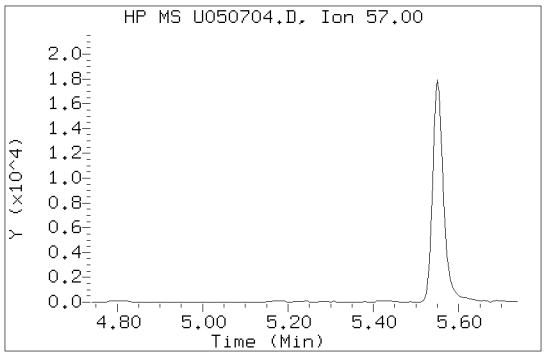
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



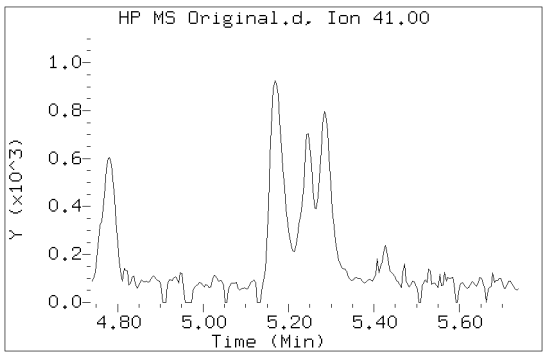
AFTER

MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



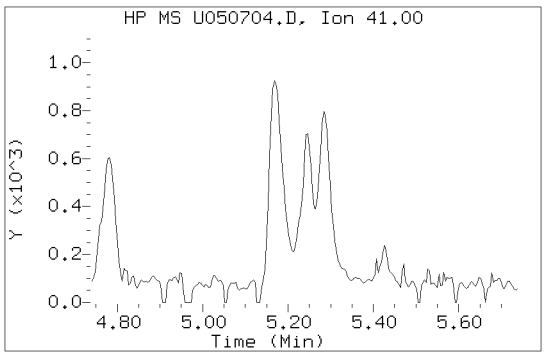
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

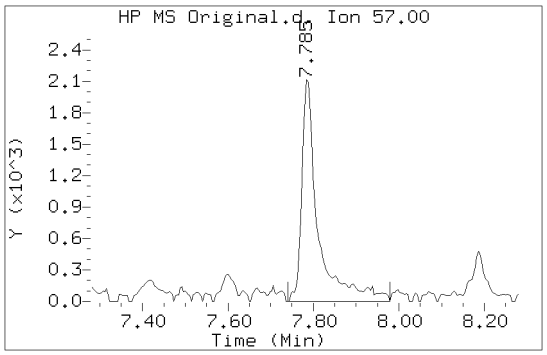


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

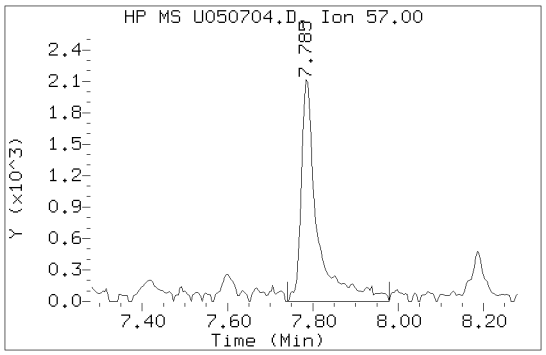
BEFORE

MASS
57
AREA
5673
HEIGHT
2115
07-May-2024
16:19
firat
tastan



AFTER

MASS
57
AREA
5673
HEIGHT
2115
28-May-2024
10:32
firat



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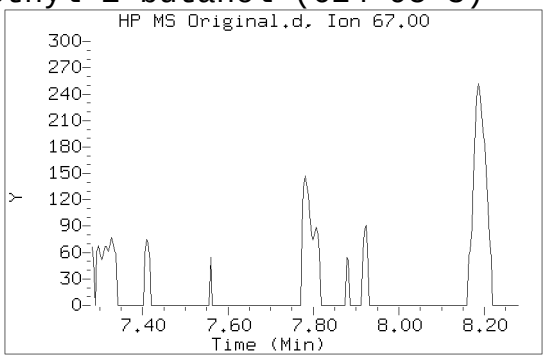
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

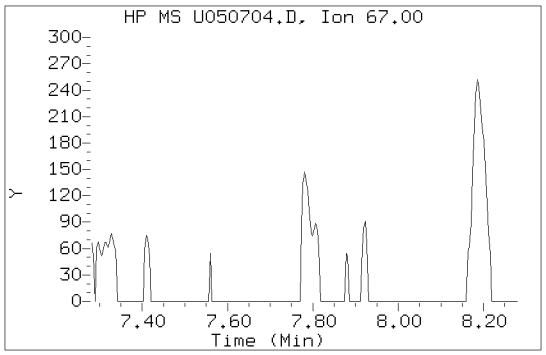
BEFORE

MASS
67
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



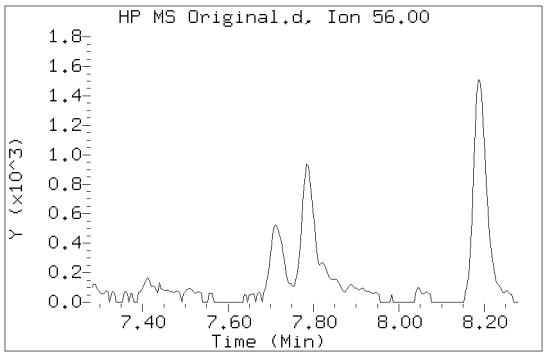
AFTER

MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



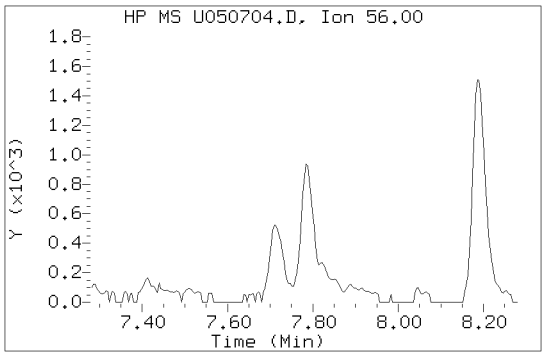
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

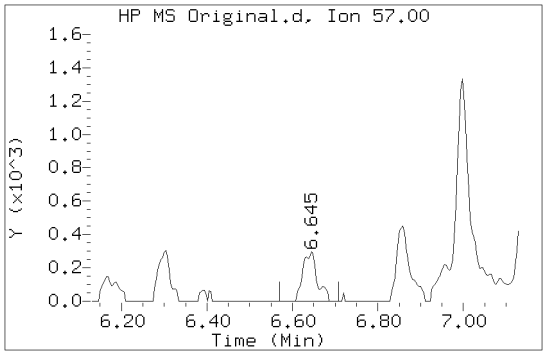


Epichlorohydrin (106-89-8)

Reason Code:

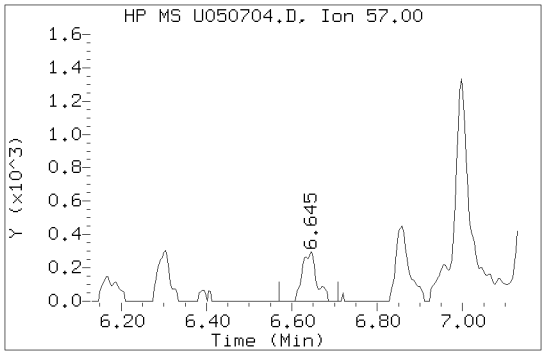
BEFORE

MASS
57
AREA
696
HEIGHT
296
07-May-2024
16:19
firat
tastan



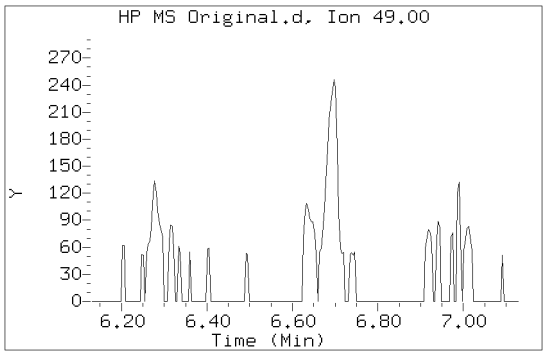
AFTER

MASS
57
AREA
696
HEIGHT
296
28-May-2024
10:32
firat



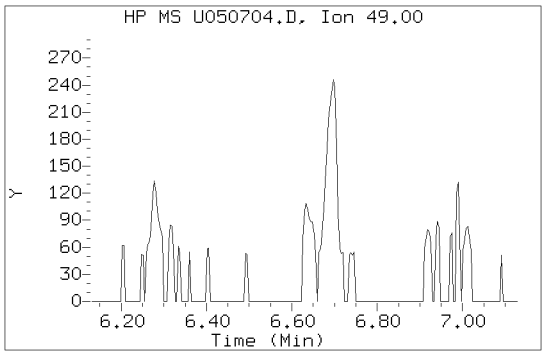
BEFORE

MASS
49
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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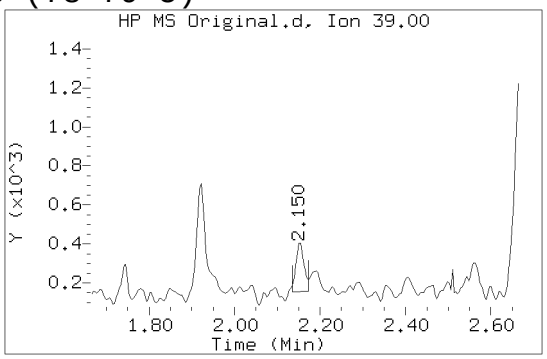
Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

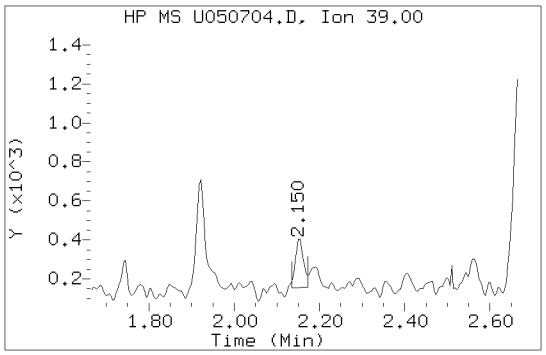
Isoprene (78-79-5)

Reason Code:

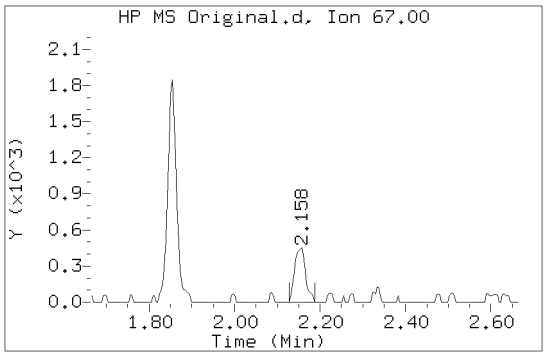
BEFORE
MASS
39
AREA
346
HEIGHT
247
07-May-2024
16:19
firat
tastan



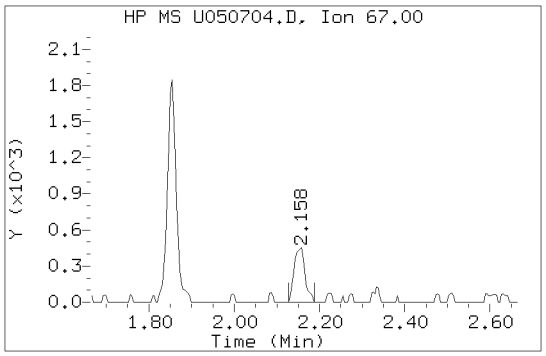
AFTER
MASS
39
AREA
346
HEIGHT
247
28-May-2024
10:32
firat



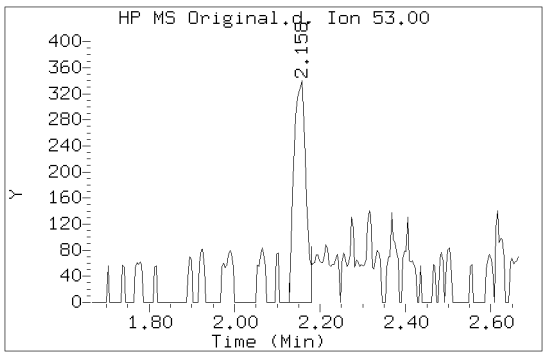
BEFORE
MASS
67
AREA
826
HEIGHT
454
07-May-2024
16:19
firat
tastan



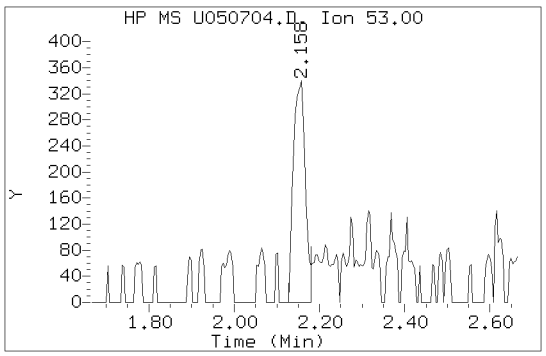
AFTER
MASS
67
AREA
826
HEIGHT
454
28-May-2024
10:32
firat



BEFORE
MASS
53
AREA
671
HEIGHT
340
07-May-2024
16:19
firat
tastan



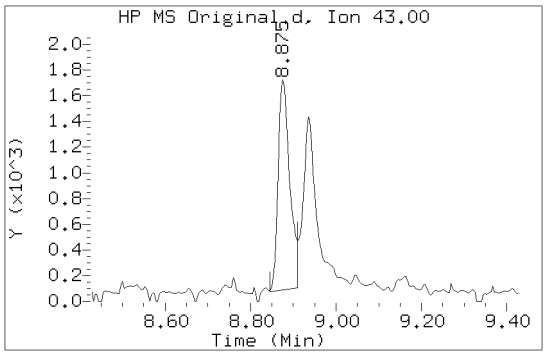
AFTER
MASS
53
AREA
671
HEIGHT
340
28-May-2024
10:32
firat



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
3108
HEIGHT
1635
07-May-2024
16:19
firat
tastan



AFTER
MASS
43
AREA
3108
HEIGHT
1635
28-May-2024
10:32
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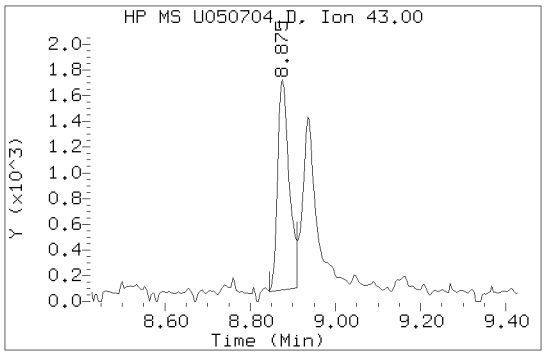

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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
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AREA
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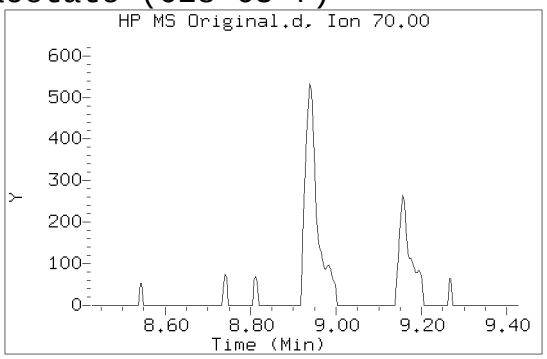
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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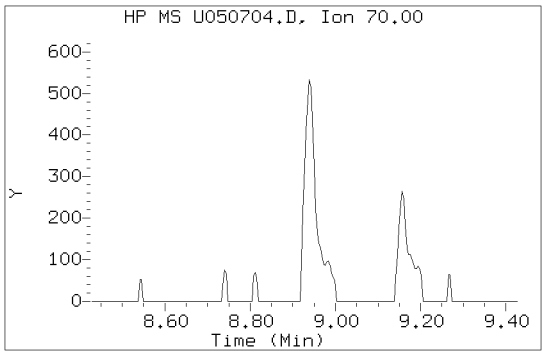
28-May-2024
10:32
firat



BEFORE
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HEIGHT
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07-May-2024
16:19
firat
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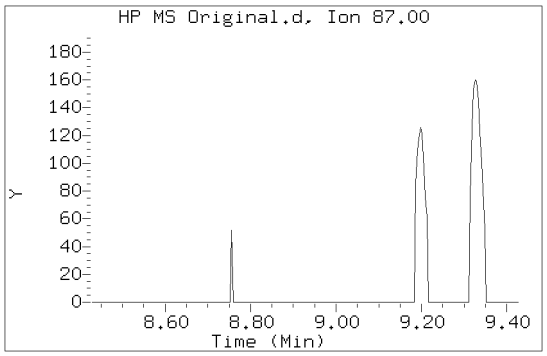

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10:32
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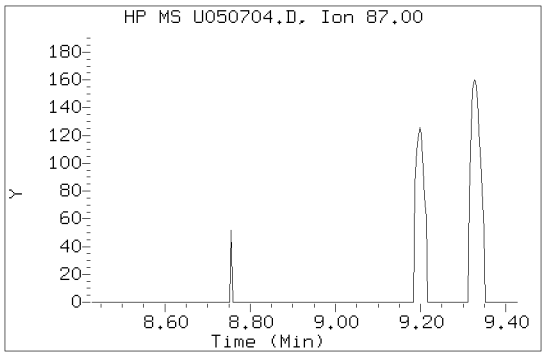

Isopropyl acetate (108-21-4)

Reason Code:

BEFORE
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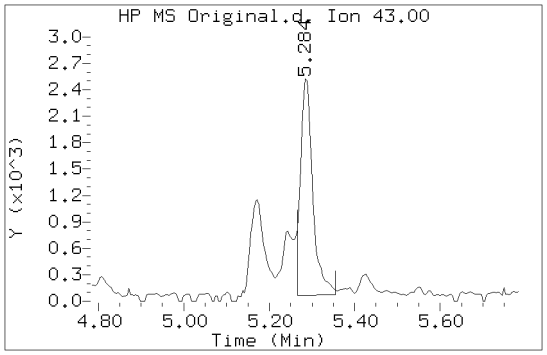
5024
HEIGHT
2453
07-May-2024
16:19
firat
tastan



AFTER
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AREA
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HEIGHT
2453
28-May-2024
10:32
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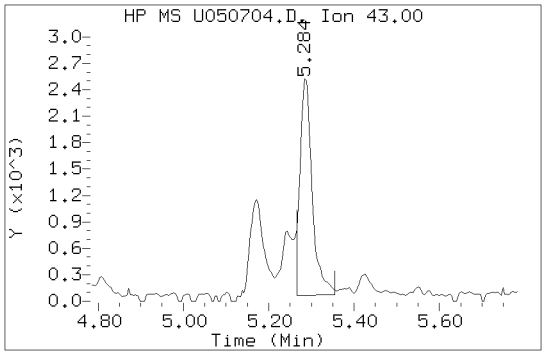

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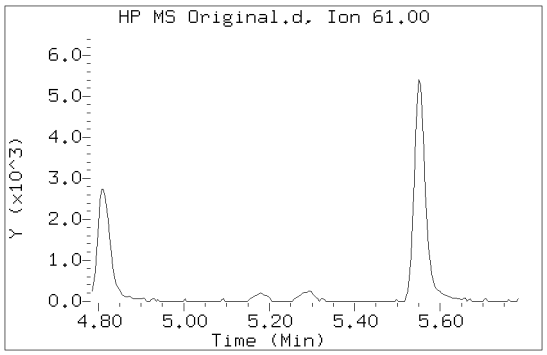

AFTER
MASS
61
AREA
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HEIGHT
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28-May-2024
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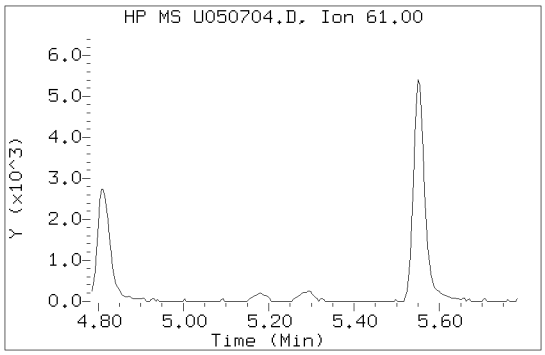
firat



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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

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HEIGHT
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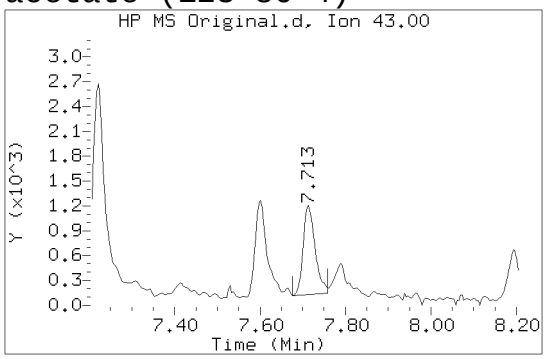
07-May-2024
16:19
firat
tastan



AFTER
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AREA
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HEIGHT
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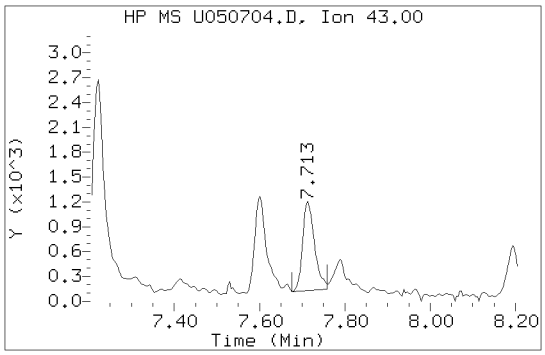
28-May-2024
10:32
firat



BEFORE
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AREA
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HEIGHT
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07-May-2024
16:19
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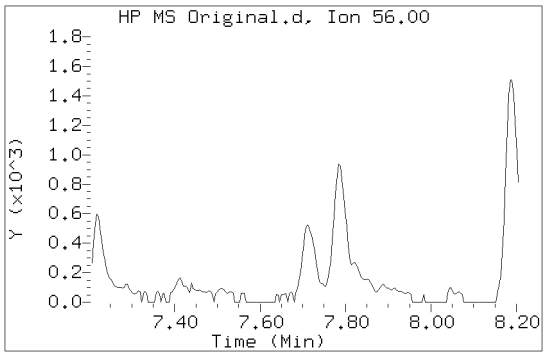
tastan



AFTER
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HEIGHT
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10:32
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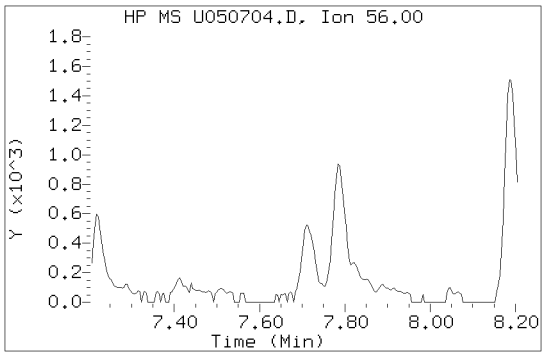

BEFORE
MASS
87
AREA
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HEIGHT
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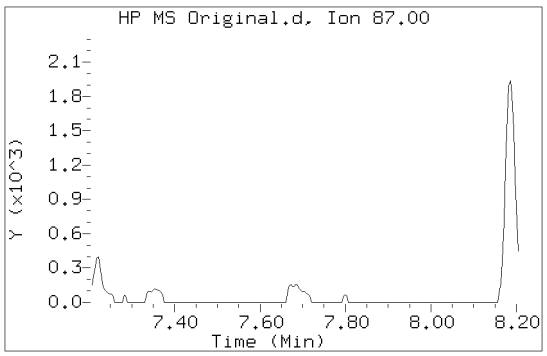
07-May-2024
16:19
firat
tastan



AFTER
MASS
87
AREA
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HEIGHT
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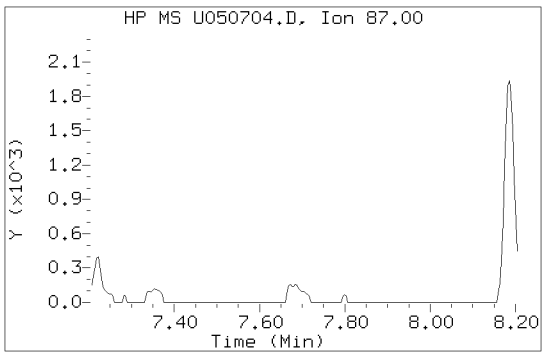
28-May-2024
10:32
firat



Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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44
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HEIGHT
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16:19
firat
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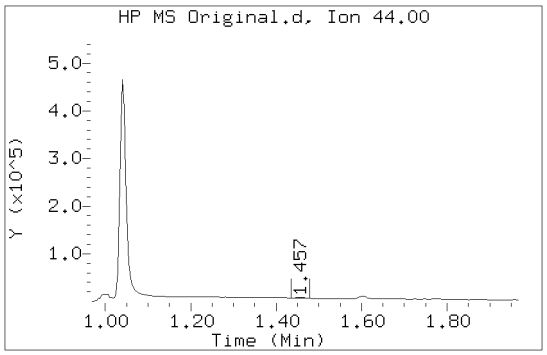

AFTER
MASS
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AREA
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HEIGHT
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10:32
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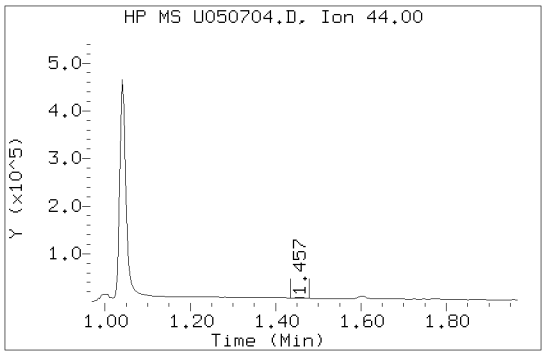

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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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AREA
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HEIGHT
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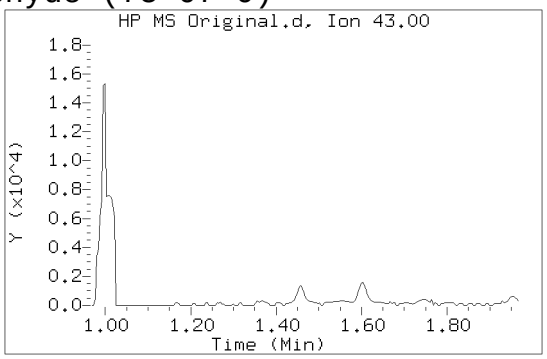
07-May-2024
16:19
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
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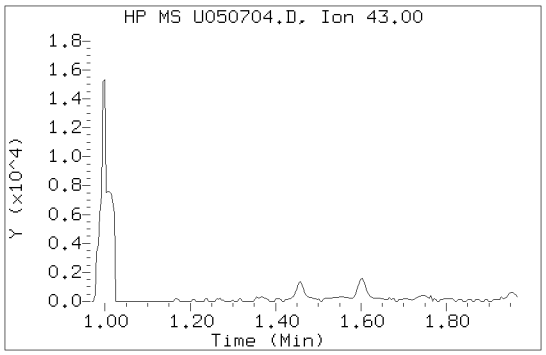
28-May-2024
10:32
firat



BEFORE
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16:19
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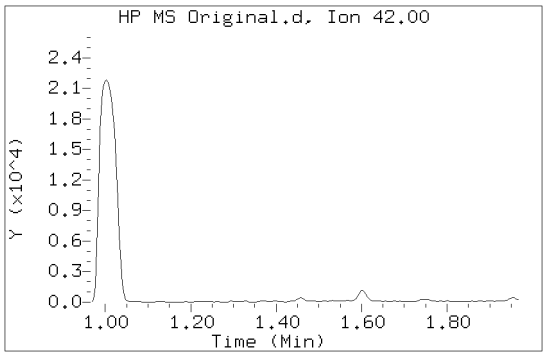

AFTER
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42
AREA
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HEIGHT
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28-May-2024
10:32
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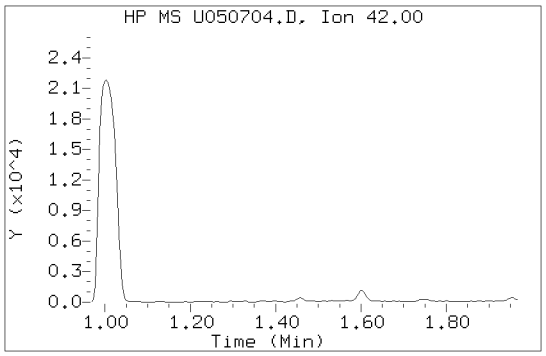

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
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AREA
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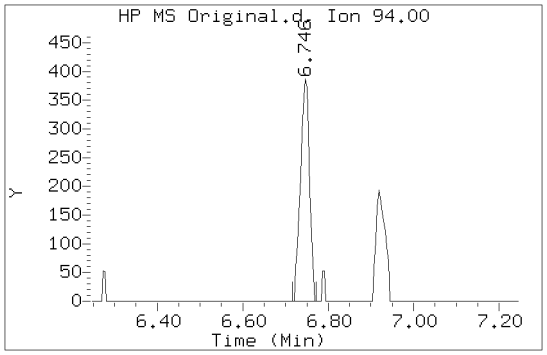
HEIGHT
387
07-May-2024
16:19
firat
tastan



AFTER
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AREA
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HEIGHT
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28-May-2024
10:32
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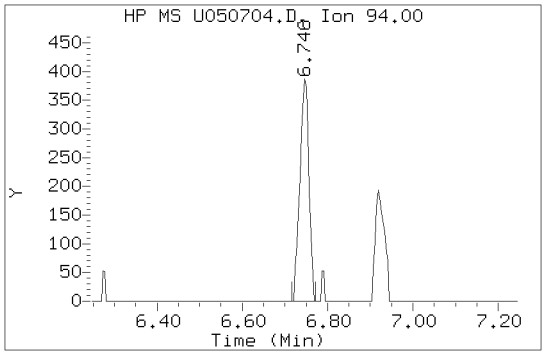

BEFORE
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16:19
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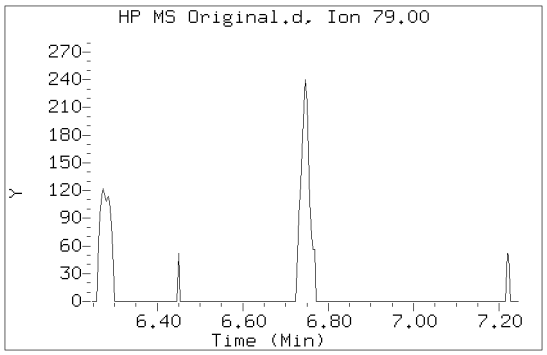

AFTER
MASS
79
AREA
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HEIGHT
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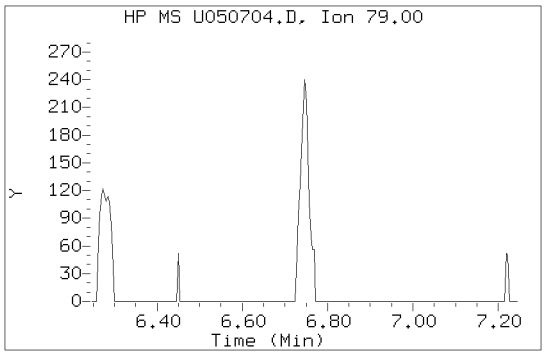
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
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HEIGHT
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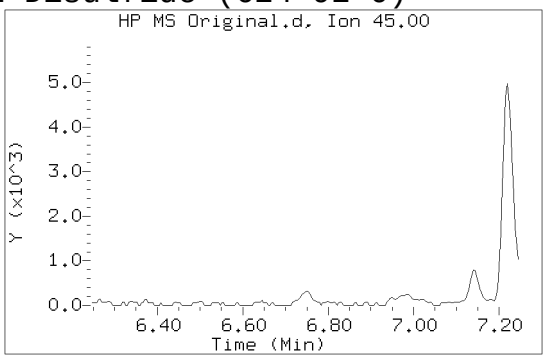
07-May-2024
16:19
firat
tastan



AFTER
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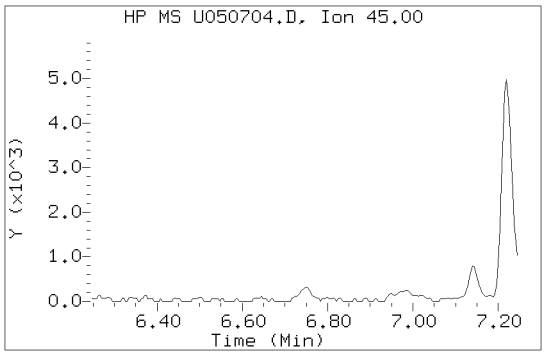
10:32
firat



Isobutylene (115-11-7)

Reason Code:

BEFORE
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304
HEIGHT
239
07-May-2024
16:19
firat
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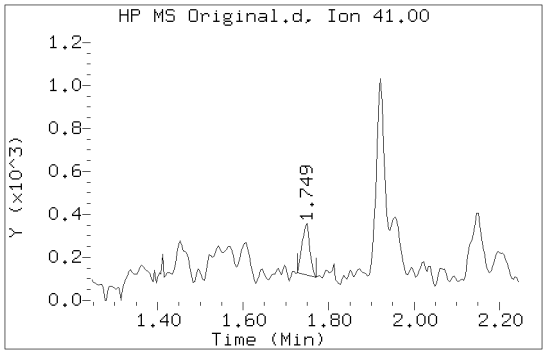

AFTER
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28-May-2024
10:32
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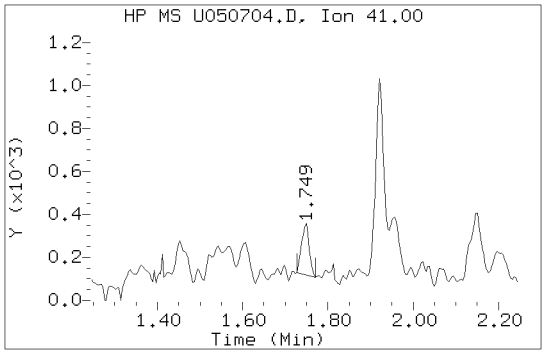

BEFORE
MASS
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AREA
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HEIGHT
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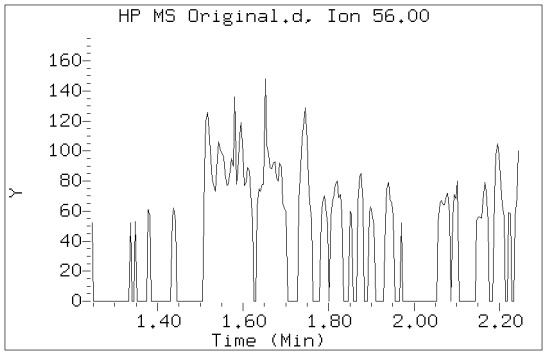
07-May-2024
16:19
firat
tastan



AFTER
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AREA
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HEIGHT
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28-May-2024
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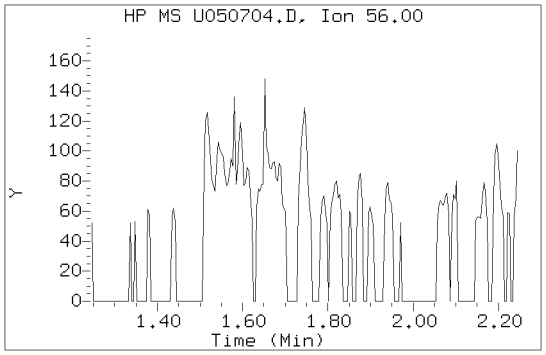
firat



BEFORE
MASS
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07-May-2024
16:19
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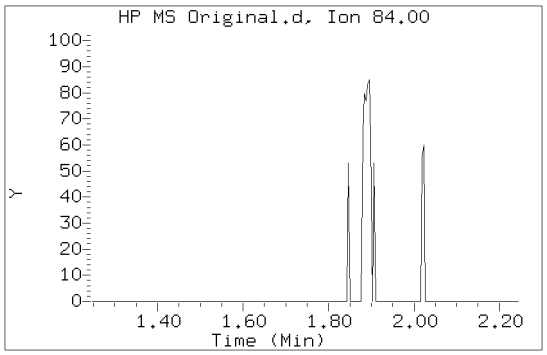

AFTER
MASS
84
AREA
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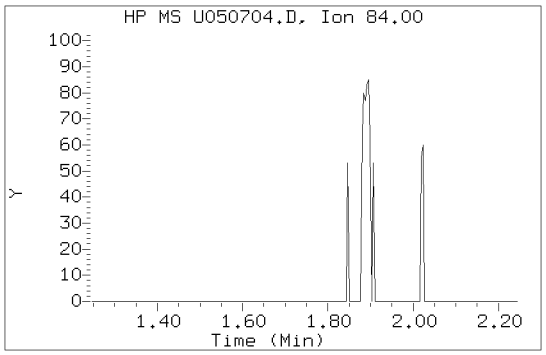
28-May-2024
10:32
firat



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 07-MAY-2024 13:09
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 12:48 Cal File: U050704.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: 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	4.819	4.819	(1.000)	221784	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	1935	2.00000	1.64(M)
3	Chloromethane	50	1.306	1.306	(0.271)	4074	2.00000	1.40
4	Propionitrile	54	4.350	4.350	(0.903)	6563	20.0000	9.01(a)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	3212	2.00000	1.71(M)
6	Bromomethane	94	1.625	1.625	(0.337)	3123	2.00000	2.71
7	Chloroethane	64	1.707	1.707	(0.354)	2573	2.00000	1.53
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	3305	2.00000	1.48
9	Acrolein	56	2.270	2.270	(0.471)	628	4.00000	1.82(aM)
10	Acetone	43	2.420	2.420	(0.502)	3376	4.00000	1.43
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	2128	2.00000	1.49
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	8791	40.0000	37.57(a)
13	Acetonitrile	39	2.678	2.678	(0.556)	4598	20.0000	20.90(a)
14	Allyl Chloride	41	2.678	2.678	(0.556)	11832	2.00000	2.11(a)
15	Iodomethane	142	2.476	2.476	(0.514)	3027	4.00000	3.54(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	3775	4.00000	1.05
17	Methylene Chloride	84	2.802	2.802	(0.582)	6966	2.00000	2.03
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	11516	2.00000	2.22
19	Carbon Disulfide	76	2.525	2.525	(0.524)	11571	4.00000	3.31
20	trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	2703	2.00000	1.71

21 Vinyl Acetate	43	4.354	4.354 (0.904)	3427	4.00000	3.59(M)
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	5335	2.00000	1.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	2.165	2.165	(0.449)	993	2.00000	1.06(aM)
24	2-Butanone	43	4.279	4.279	(0.888)	2534	4.00000	3.61
25	Methacrylonitrile	41	4.500	4.500	(0.934)	2309	2.00000	1.91(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	2491	2.00000	1.96
27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	3011	2.00000	1.91
28	Chloroform	83	4.579	4.579	(0.950)	5013	2.00000	1.96
29	Bromochloromethane	128	4.470	4.470	(0.928)	1593	2.00000	1.46
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.986)	4422	2.00000	0.73
31	1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	2875	2.00000	1.57
32	1,1-Dichloropropene	75	4.924	4.924	(0.886)	3286	2.00000	1.72
33	1,2-Dichloroethane	62	5.182	5.182	(0.933)	4182	2.00000	1.94
34	Carbon Tetrachloride	117	4.909	4.909	(0.883)	2026	2.00000	1.63(M)
$ 35	1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	5718	2.00000	(a)
* 36	1,4-Difluorobenzene	114	5.557	5.557	(1.000)	329943	50.0000	
37	Benzene	78	5.141	5.141	(0.925)	11066	2.00000	1.87
38	Trichloroethene	130	5.794	5.794	(1.042)	2748	2.00000	1.80(a)
39	Bromodichloromethane	83	6.281	6.281	(1.130)	3008	2.00000	1.79(aM)
40	Methyl Methacrylate	41	5.839	5.839	(1.212)	1287	2.00000	1.66(a)
41	2-Chloroethylvinyl ether	63	6.622	6.622	(1.192)	11	4.00000	1.70(aM)
42	1,2-Dichloropropane	63	6.015	6.015	(1.082)	3218	2.00000	2.22(aM)
43	2-Nitropropane	43	6.513	6.513	(1.352)	1049	2.00000	2.41(aM)
44	Dibromomethane	93	6.120	6.120	(1.101)	1778	2.00000	1.83(a)
45	4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	5425	4.00000	3.25(a)
46	cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	2524	2.00000	2.26(a)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	294823	50.0000	
$ 48	Toluene-d8	98	6.926	6.926	(0.846)	15047	2.00000	0.86(a)
49	Ethyl Methacrylate	69	7.222	7.222	(1.299)	4412	2.00000	1.82(a)
50	Toluene	91	6.986	6.986	(0.853)	10606	2.00000	1.82(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	2073	2.00000	2.56(a)
52	2-Hexanone	43	7.600	7.600	(0.929)	3600	4.00000	6.41
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	2202	2.00000	1.82(a)
54	1,3-Dichloropropane	76	7.503	7.503	(0.917)	4685	2.00000	1.84(a)
55	Dibromochloromethane	129	7.694	7.694	(0.940)	1814	2.00000	3.65(a)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	1887	2.00000	1.55(a)
57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	2317	2.00000	1.70(a)
58	1-Chlorohexane	55	8.189	8.189	(1.473)	4890	2.00000	2.12(a)
59	Chlorobenzene	112	8.211	8.211	(1.003)	7431	2.00000	1.83(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	2003	2.00000	3.37(a)
61	Ethylbenzene	106	8.309	8.309	(1.015)	3419	2.00000	1.78(aM)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	7803	4.00000	3.37(a)
63	o-Xylene	106	8.748	8.748	(1.069)	4049	2.00000	1.75(aM)
64	Styrene	104	8.766	8.766	(1.071)	6533	2.00000	1.67(a)
66	Bromoform	173	8.924	8.924	(1.090)	1007	2.00000	2.66(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	9546	2.00000	1.72(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	3743	2.00000	2.38(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5812	2.00000	0.86(a)
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	147631	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	3654	2.00000	1.94(aM)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	859	2.00000	2.61(a)
73	n-Propylbenzene	91	9.415	9.415	(0.926)	9976	2.00000	1.67(a)
74	Bromobenzene	156	9.321	9.321	(0.916)	2980	2.00000	1.85(a)
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	6964	2.00000	1.62(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	7490	2.00000	1.86(a)
77	4-Chlorotoluene	91	9.580	9.580 (0.942)	7859	2.00000	1.73(a)

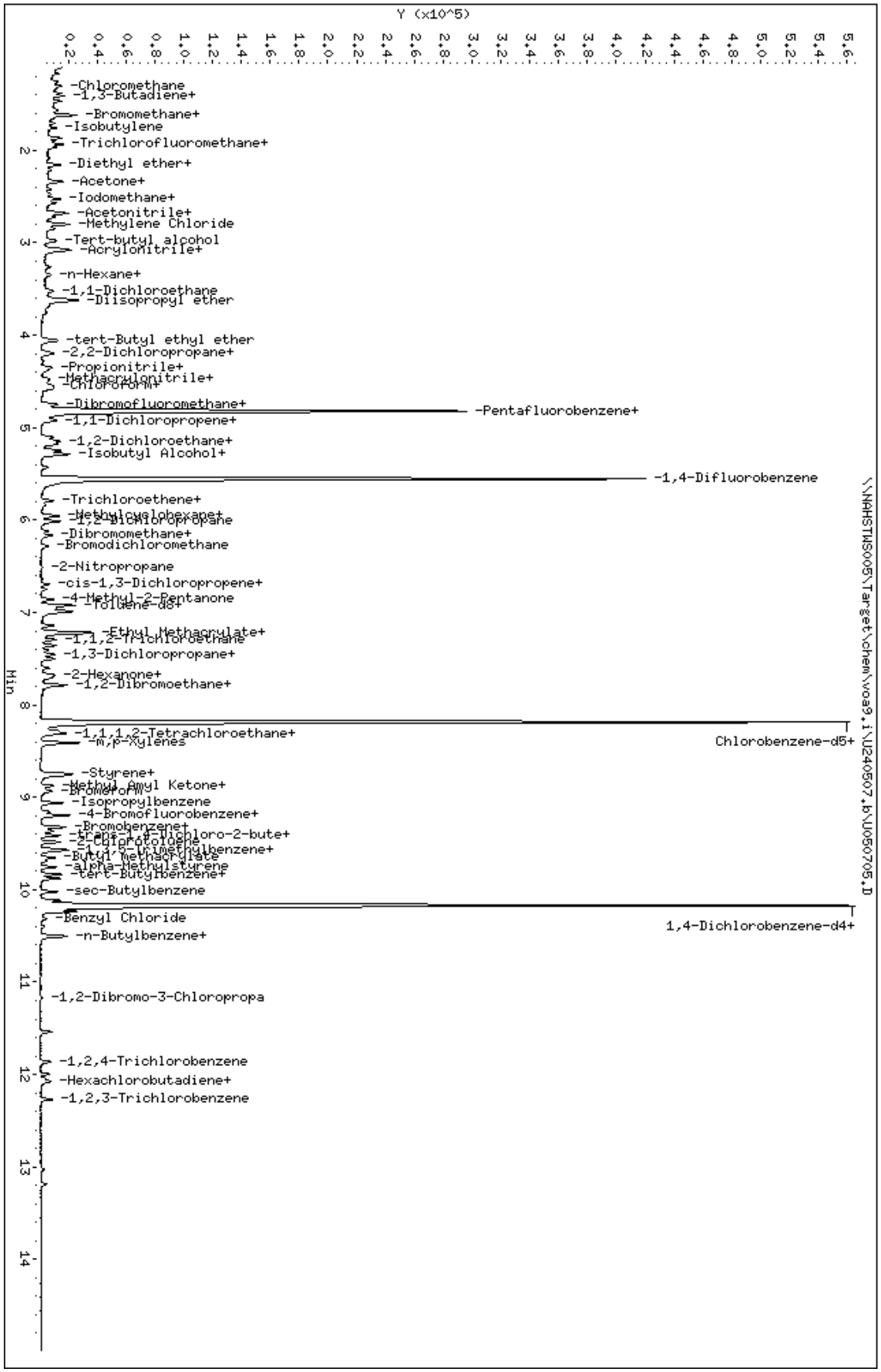
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	5758	2.00000	1.59(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	6668	2.00000	1.58(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	7513	2.00000	1.57(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	6149	2.00000	1.48(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	5226	2.00000	1.86(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	5993	2.00000	2.50(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	2290	2.00000	4.23(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	5352	2.00000	2.03(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	5340	2.00000	2.29(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.098)	256	2.00000	2.98(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	2492	2.00000	2.20(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	1142	2.00000	1.59(a)
92	Naphthalene	128	12.073	12.073	(1.187)	5486	2.00000	3.25(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	2706	2.00000	1.62(a)
146	Methyl acetate	43	2.723	2.723	(0.565)	5867	2.00000	0.61(a)
138	Freon TF	101	2.345	2.345	(0.487)	1755	2.00000	1.48(a)
141	Cyclohexane	56	4.819	4.819	(1.000)	6934	2.00000	2.97(aM)
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	1900	4.00000	2.22(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.071)	7288	2.00000	1.78(a)
135	1,4-Dioxane	88	6.180	6.180	(1.282)	1012	40.0000	28.62
132	n-Butanol	56	5.835	5.835	(1.211)	2006	40.0000	33.71(a)
136	n-Hexane	57	3.353	3.353	(0.696)	2449	2.00000	1.59(a)
139	Diethyl ether	59	2.150	2.150	(0.446)	3597	2.00000	2.31(a)
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	9237	40.0000	30.14(M)
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	6724	40.0000	19.12(T)
152	Amyl alcohol	42	7.405	7.405	(0.905)	2053	40.0000	38.47
156	Diisopropyl ether	45	3.627	3.627	(0.753)	14381	2.00000	2.29(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	5241	2.00000	2.91(a)
187	n-Amyl acetate	43	8.875	8.875	(1.084)	5867	2.00000	1.93(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	16464	2.00000	2.18(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	11581	2.00000	2.11(a)
167	Ethanol	45	2.086	2.086	(0.433)	1541	40.0000	22.30(M)
172	tert-Butyl formate	59	5.246	5.246	(1.089)	6077	4.00000	3.83(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	8149	40.0000	55.04(M)
174	tert-Amyl methyl ether	73	5.291	5.291	(1.098)	9623	2.00000	1.92(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	11176	2.00000	2.19(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	5904	40.0000	38.79
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.299)	16169	40.0000	61.15
140	1,3-Butadiene	54	1.411	1.411	(0.293)	2547	2.00000	1.77(a)
158	Dichlorofluoromethane	67	1.865	1.865	(0.387)	7156	2.00000	2.27(M)
182	Epichlorohydrin	57	6.637	6.637	(1.194)	1163	8.00000	8.25(M)
M 94	1,2-Dichloroethylene (total)	96				5714	4.00000	(a)
130	Ethyl Acetate	43	4.354	4.354	(0.904)	3554	2.00000	1.87(aM)
131	Methyl Acrylate	55	4.384	4.384	(0.910)	5720	2.00000	1.75(a)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	3570	2.00000	4.08(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	3320	40.0000	45.50(a)
185	Isoprene	39	2.165	2.165	(0.449)	612	2.00000	1.71(aM)
188	Isopropyl acetate	43	5.291	5.291	(0.952)	9028	2.00000	1.93(a)
150	Allyl alcohol	57	3.353	3.353	(0.696)	2449	40.0000	31.83
194	Acetaldehyde	44	1.468	1.468	(0.305)	3690	8.00000	(aM)
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	5882	2.00000	3.73(a)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	1323	2.00000	3.18(a)

202 Isobutylene	41	1.756	1.756 (0.364)	1563	2.00000	1.42(aM)
133 Ethyl Acrylate	55	5.951	5.951 (1.235)	7288	2.00000	1.80(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.651	9.651	(0.949)	3813	2.00000	1.99(a)
159 Propylene oxide	43	2.206	2.206	(0.458)	695	4.00000	4.66(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2400	2.00000	3.19(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.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-Styrene+
-Methyl Amyl Ketone+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene+
-Bromobenzene+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,2,4-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-1,2,3-Trichlorobenzene
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Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1

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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

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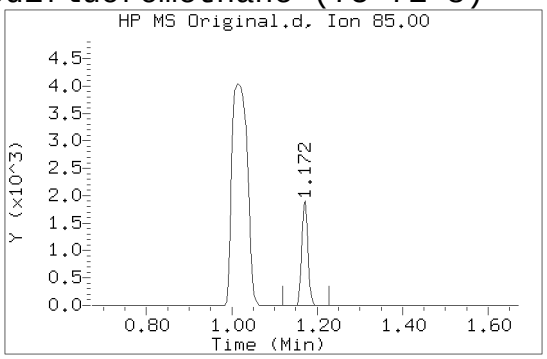

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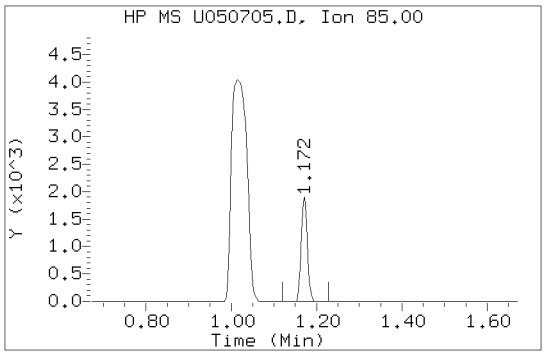

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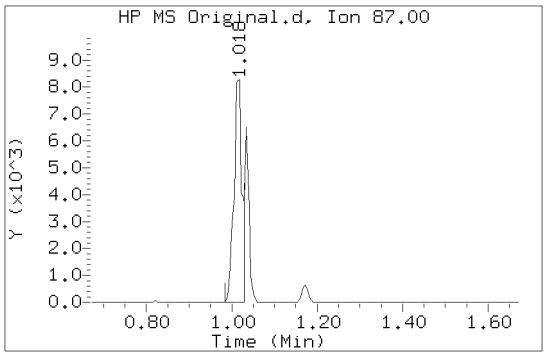

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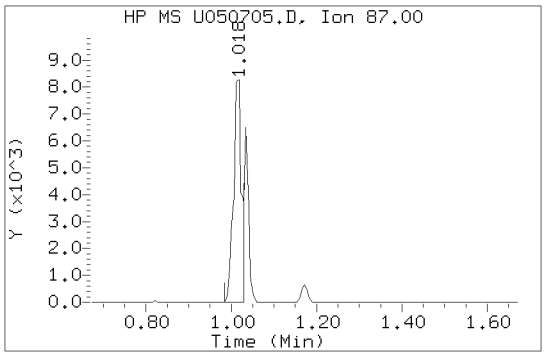

Vinyl Chloride (75-01-4)

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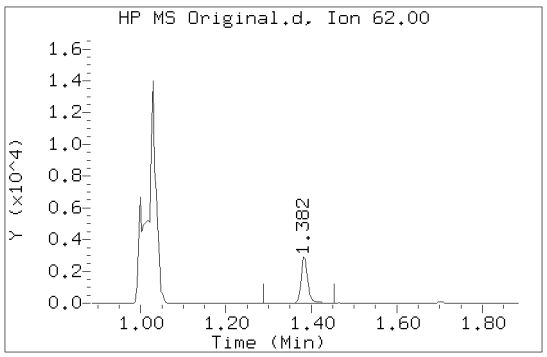

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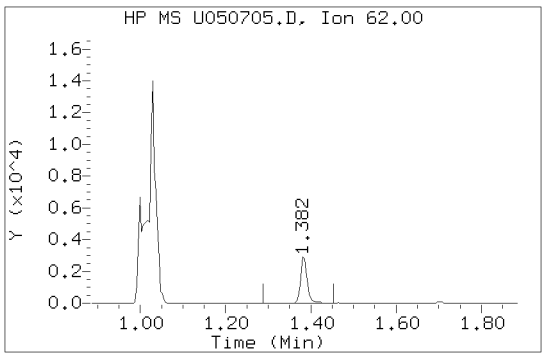

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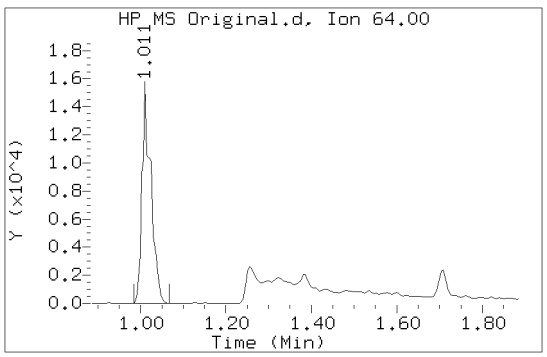

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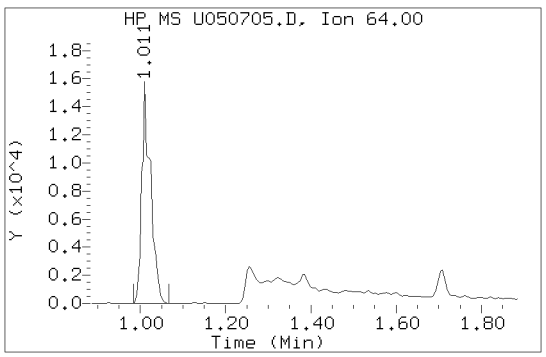

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Carbon Tetrachloride (56-23-5)

Reason Code:

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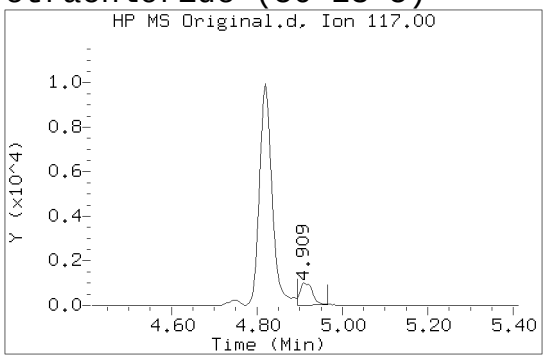

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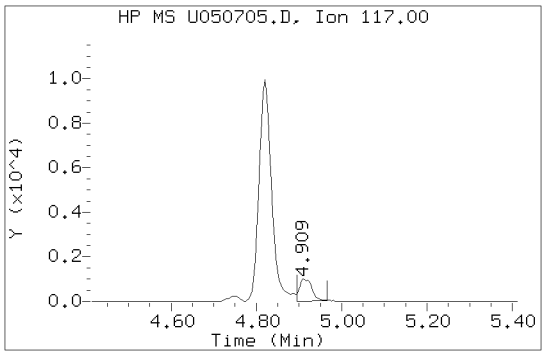

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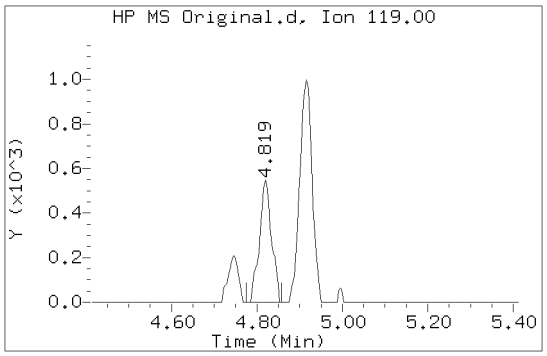

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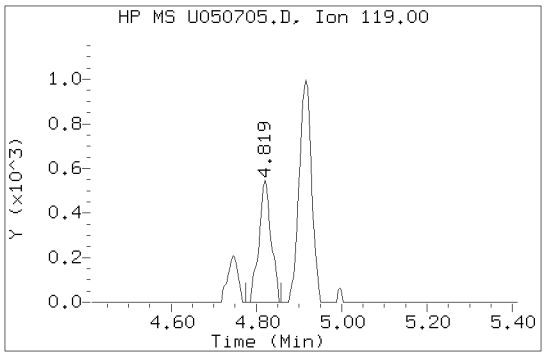

Bromodichloromethane (75-27-4)

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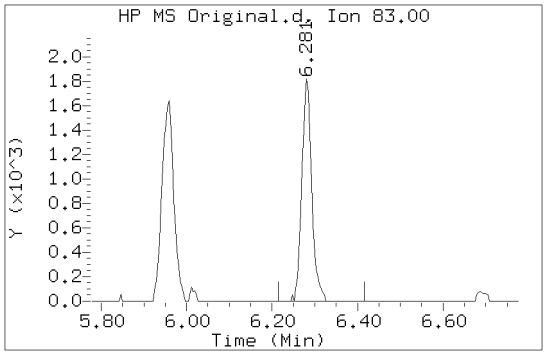

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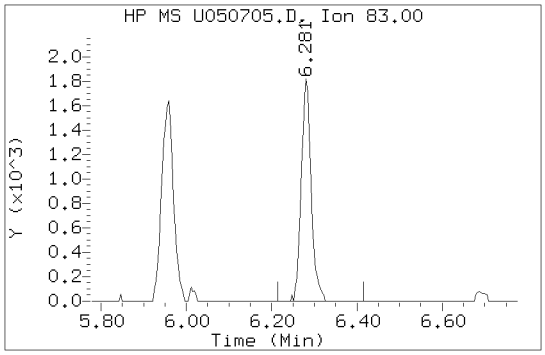
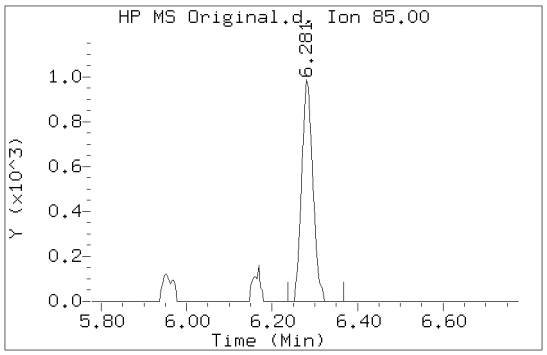
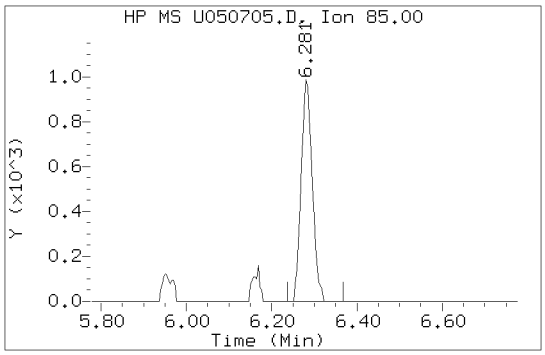


BEFORE
MASS
85
AREA
1828
HEIGHT
988
07-May-2024
16:19
firat
tastan



AFTER
MASS
85
AREA
1828
HEIGHT
988
28-May-2024
10:32
firat



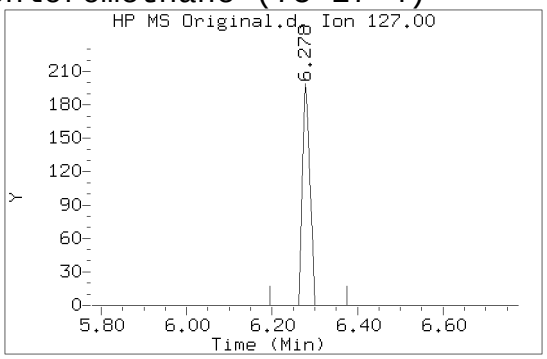
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

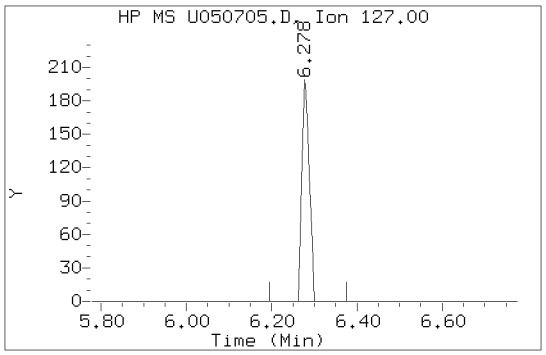
BEFORE

MASS
127
AREA
250
HEIGHT
199
07-May-2024
16:19
firat
tastan



AFTER

MASS
127
AREA
250
HEIGHT
199
28-May-2024
10:32
firat

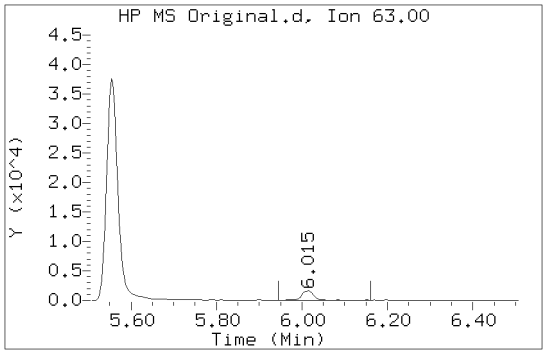


1,2-Dichloropropane (78-87-5)

Reason Code:

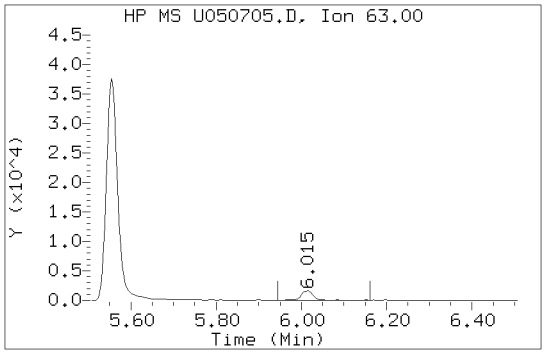
BEFORE

MASS
63
AREA
3218
HEIGHT
1596
07-May-2024
16:19
firat
tastan



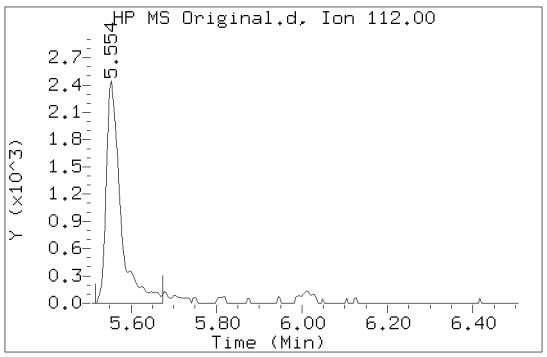
AFTER

MASS
63
AREA
3218
HEIGHT
1596
28-May-2024
10:32
firat



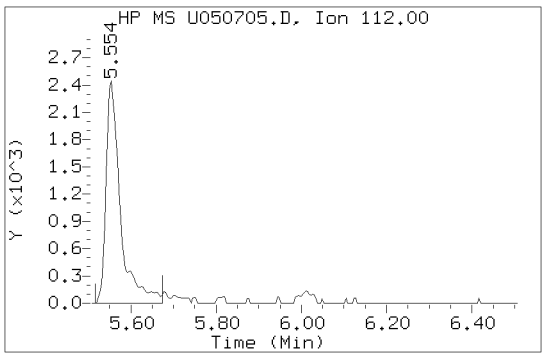
BEFORE

MASS
112
AREA
5743
HEIGHT
2445
07-May-2024
16:19
firat
tastan



AFTER

MASS
112
AREA
5743
HEIGHT
2445
28-May-2024
10:32
firat

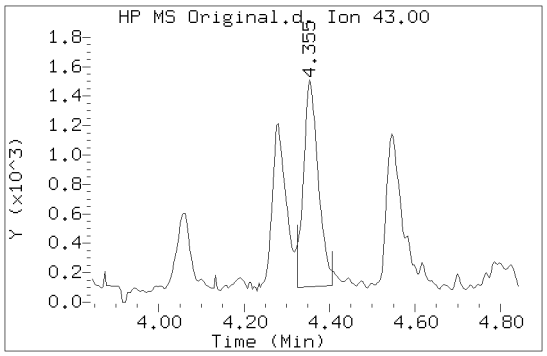


Vinyl Acetate (108-05-4)

Reason Code:

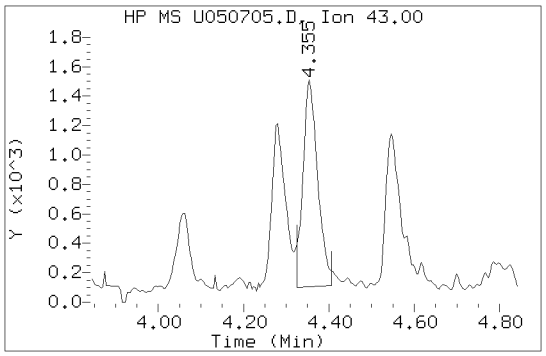
BEFORE

MASS
43
AREA
3427
HEIGHT
1404
07-May-2024
16:19
firat
tastan



AFTER

MASS
43
AREA
3427
HEIGHT
1404
28-May-2024
10:32
firat



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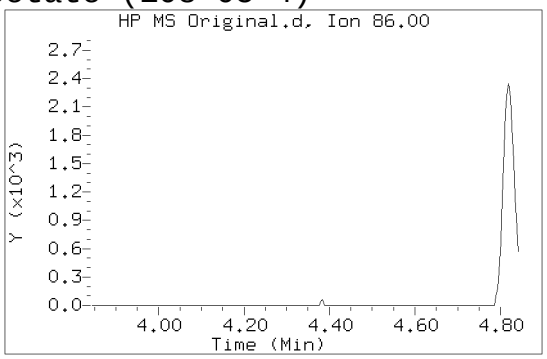
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

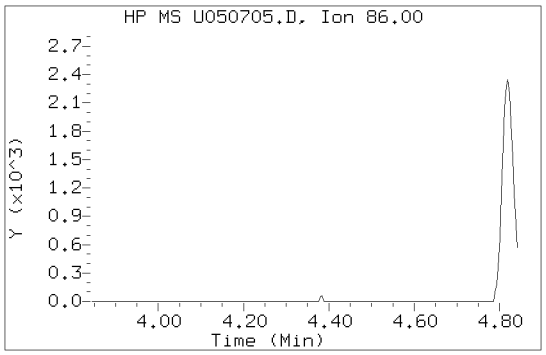
BEFORE

MASS
86
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

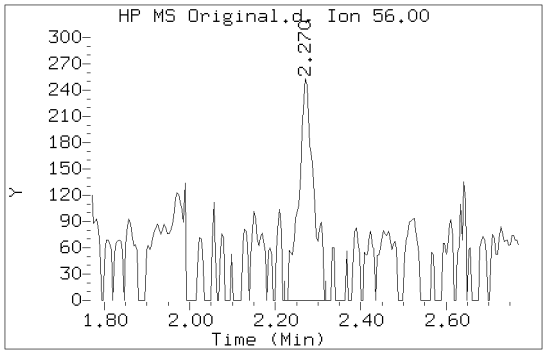


Acrolein (107-02-8)

Reason Code:

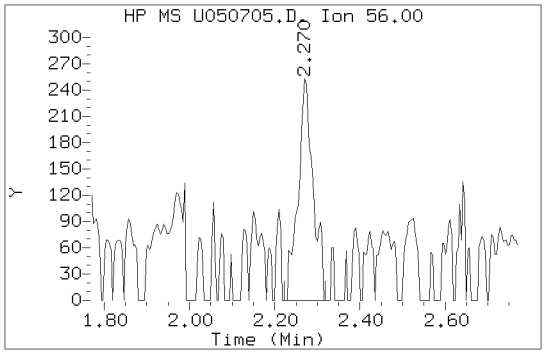
BEFORE

MASS
56
AREA
628
HEIGHT
253
07-May-2024
16:19
firat
tastan



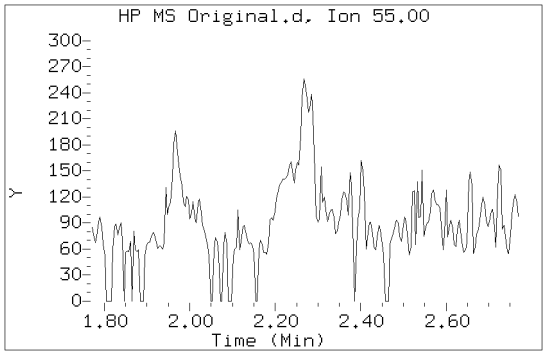
AFTER

MASS
56
AREA
628
HEIGHT
253
28-May-2024
10:32
firat



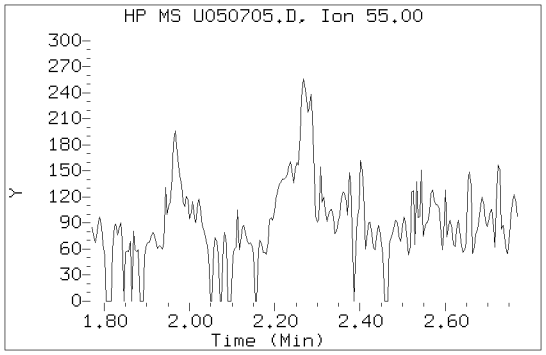
BEFORE

MASS
55
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

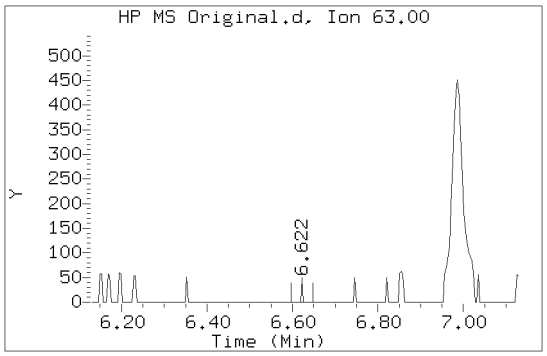


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

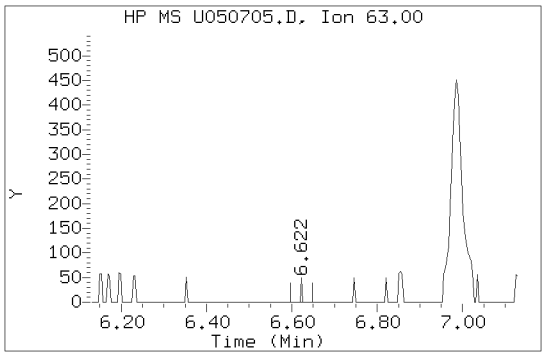
BEFORE

MASS
63
AREA
11
HEIGHT
50
07-May-2024
16:19
firat
tastan



AFTER

MASS
63
AREA
11
HEIGHT
50
28-May-2024
10:32
firat



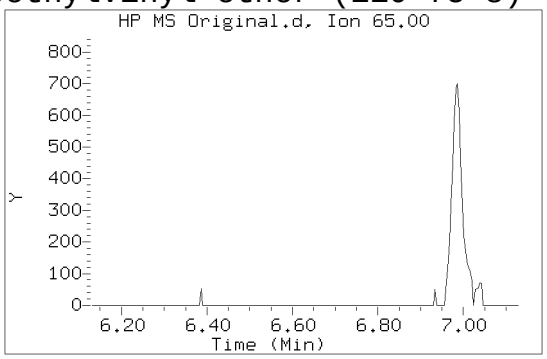
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

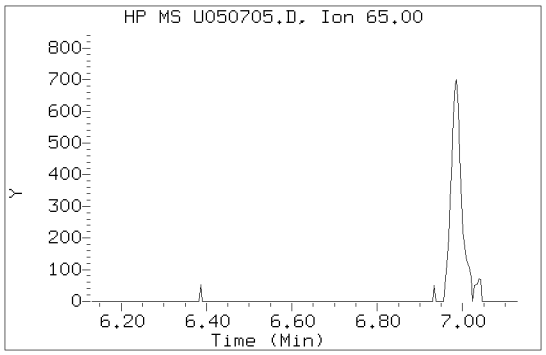
BEFORE

MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



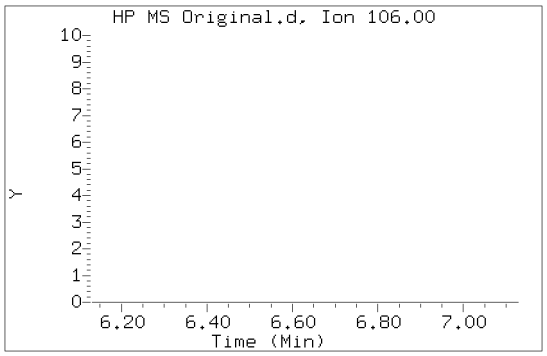
AFTER

MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



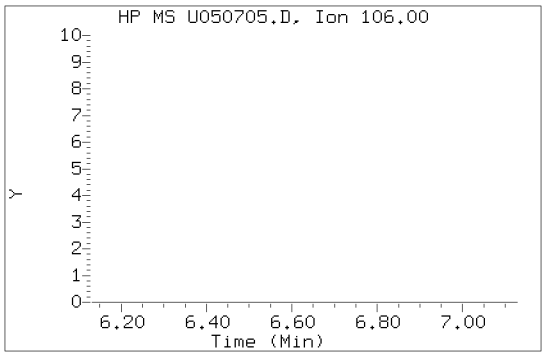
BEFORE

MASS
106
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
106
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

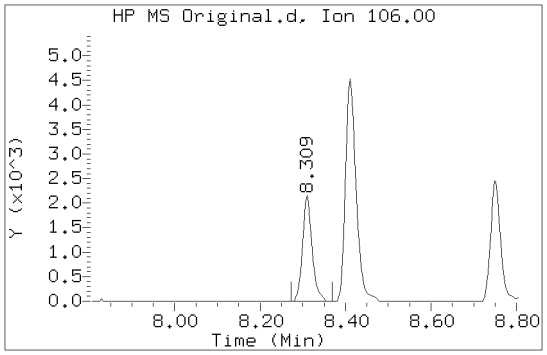


Ethylbenzene (100-41-4)

Reason Code:

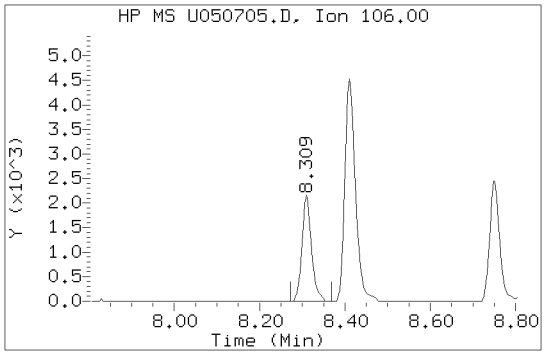
BEFORE

MASS
106
AREA
3419
HEIGHT
2166
07-May-2024
16:19
firat
tastan



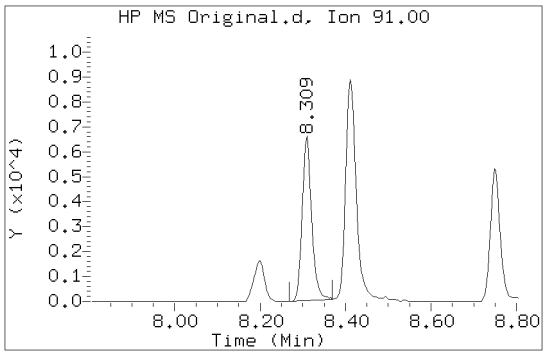
AFTER

MASS
106
AREA
3419
HEIGHT
2166
28-May-2024
10:32
firat



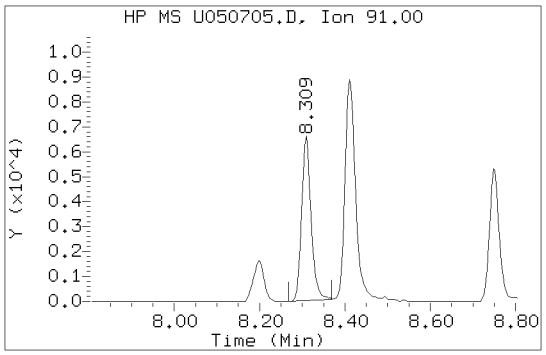
BEFORE

MASS
91
AREA
10348
HEIGHT
6595
07-May-2024
16:19
firat
tastan



AFTER

MASS
91
AREA
10348
HEIGHT
6595
28-May-2024
10:32
firat



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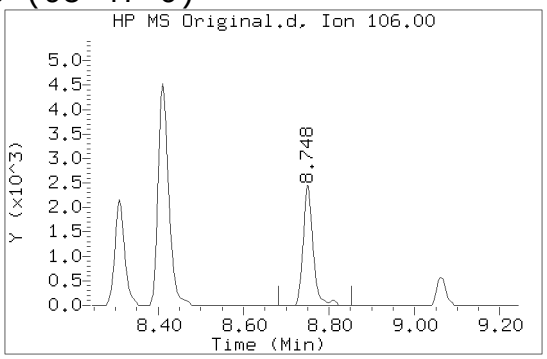
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

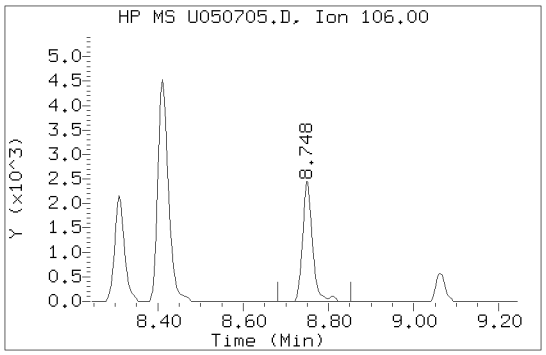
o-Xylene (95-47-6)

Reason Code:

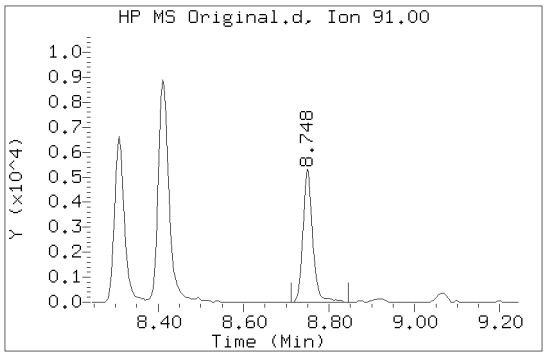
BEFORE
MASS
106
AREA
4049
HEIGHT
2448
07-May-2024
16:19
firat
tastan



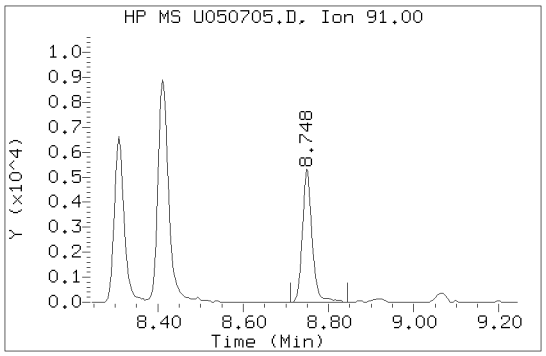
AFTER
MASS
106
AREA
4049
HEIGHT
2448
28-May-2024
10:32
firat



BEFORE
MASS
91
AREA
8640
HEIGHT
5314
07-May-2024
16:19
firat
tastan



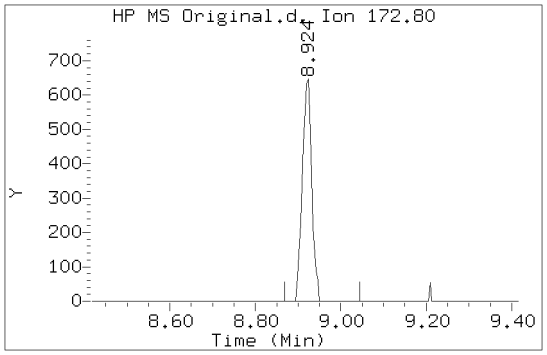
AFTER
MASS
91
AREA
8640
HEIGHT
5314
28-May-2024
10:32
firat



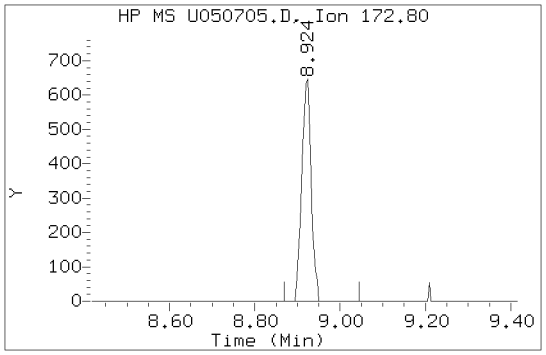
Bromoform (75-25-2)

Reason Code:

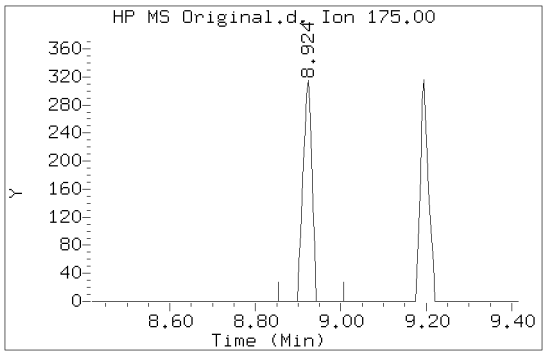
BEFORE
MASS
172.8
AREA
1007
HEIGHT
647
07-May-2024
16:19
firat
tastan



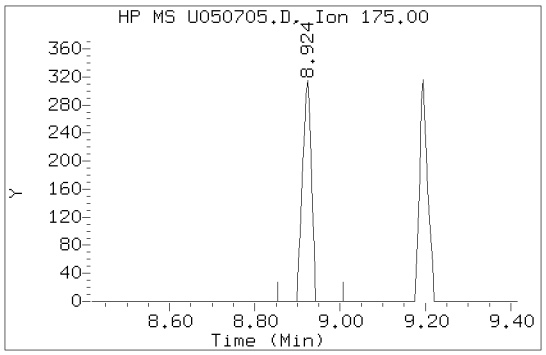
AFTER
MASS
172.8
AREA
1007
HEIGHT
647
28-May-2024
10:32
firat



BEFORE
MASS
175
AREA
461
HEIGHT
315
07-May-2024
16:19
firat
tastan



AFTER
MASS
175
AREA
461
HEIGHT
315
28-May-2024
10:32
firat



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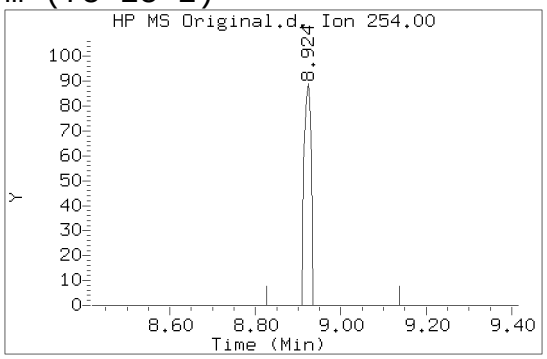
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

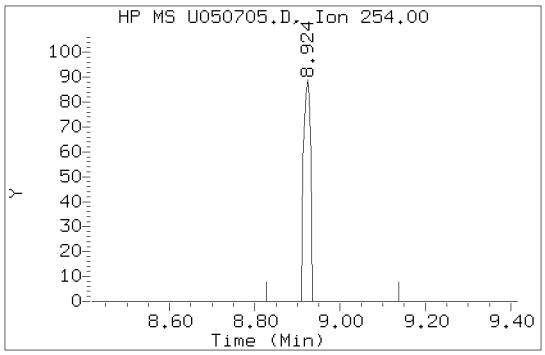
BEFORE

MASS
254
AREA
99
HEIGHT
89
07-May-2024
16:19
firat
tastan



AFTER

MASS
254
AREA
99
HEIGHT
89
28-May-2024
10:32
firat

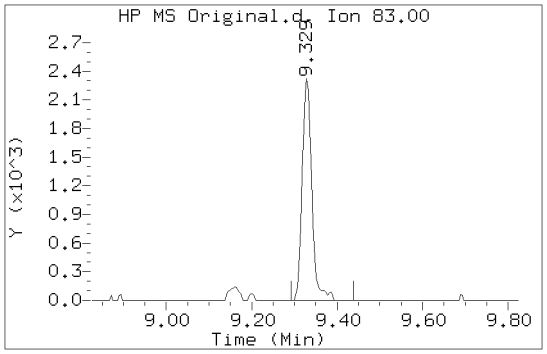


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

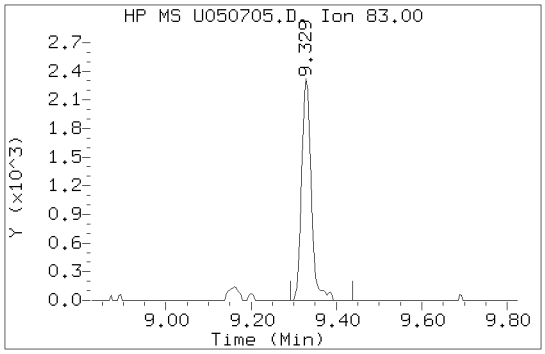
BEFORE

MASS
83
AREA
3743
HEIGHT
2322
07-May-2024
16:19
firat
tastan



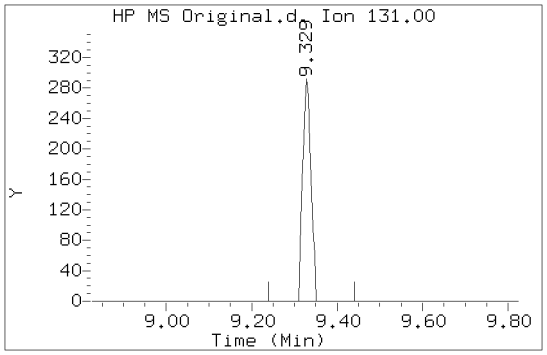
AFTER

MASS
83
AREA
3743
HEIGHT
2322
28-May-2024
10:32
firat



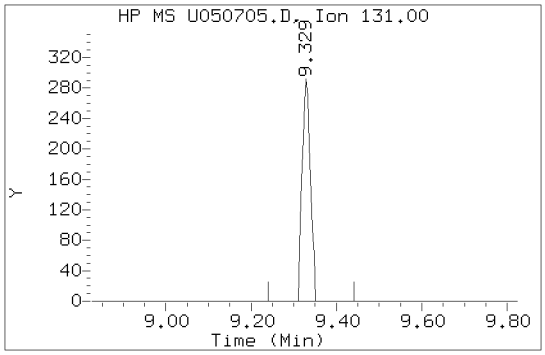
BEFORE

MASS
131
AREA
405
HEIGHT
292
07-May-2024
16:19
firat
tastan



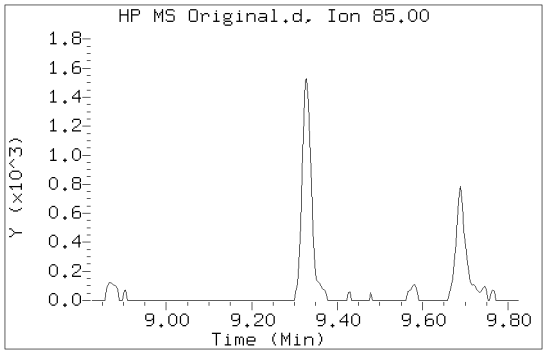
AFTER

MASS
131
AREA
405
HEIGHT
292
28-May-2024
10:32
firat



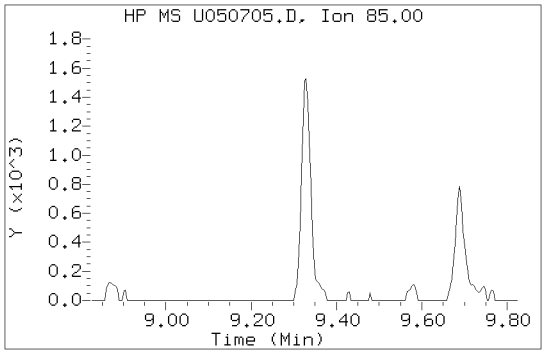
BEFORE

MASS
85
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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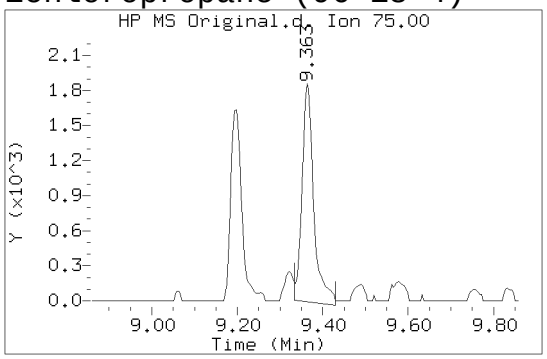
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

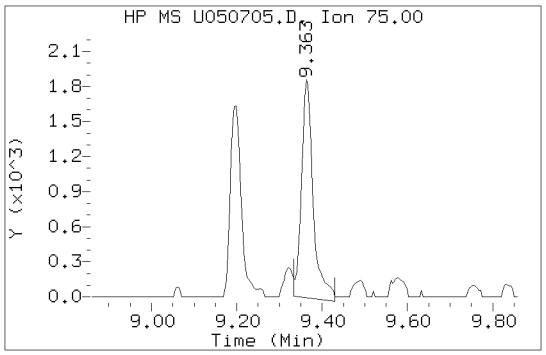
1,2,3-Trichloropropane (96-18-4)

Reason Code:

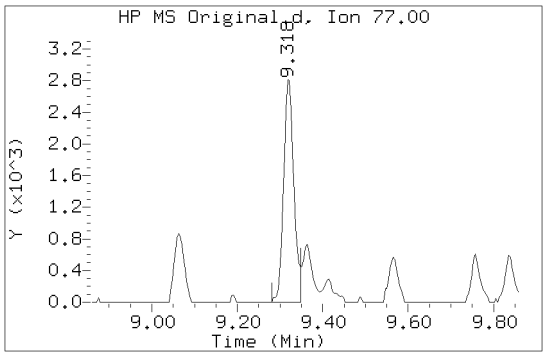
BEFORE
MASS
75
AREA
3654
HEIGHT
1865
07-May-2024
16:19
firat
tastan



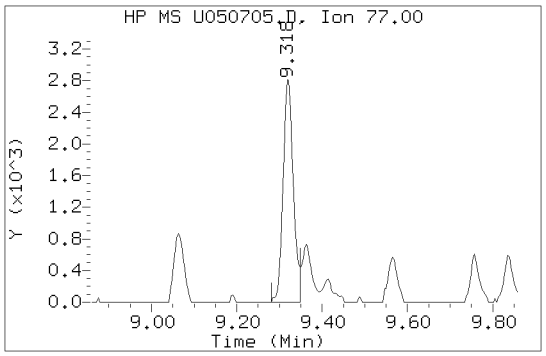
AFTER
MASS
75
AREA
3654
HEIGHT
1865
28-May-2024
10:32
firat



BEFORE
MASS
77
AREA
4695
HEIGHT
2809
07-May-2024
16:19
firat
tastan



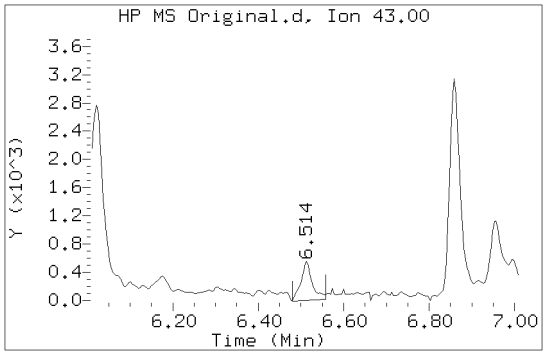
AFTER
MASS
77
AREA
4695
HEIGHT
2809
28-May-2024
10:32
firat



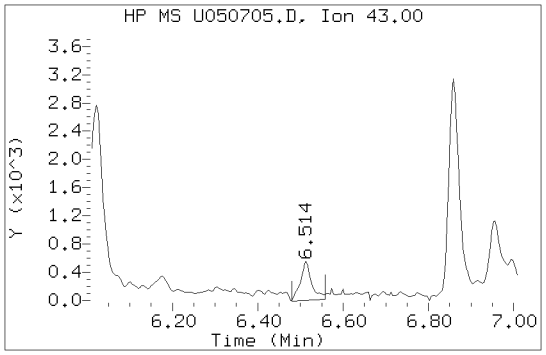
2-Nitropropane (79-46-9)

Reason Code:

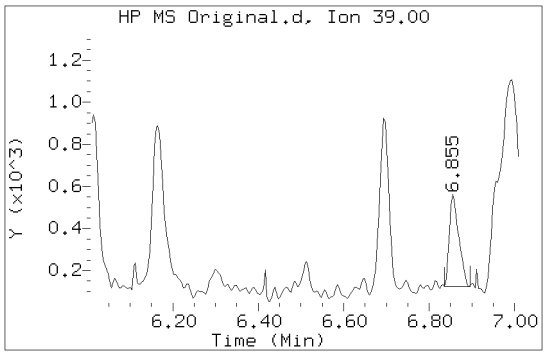
BEFORE
MASS
43
AREA
1049
HEIGHT
555
07-May-2024
16:19
firat
tastan



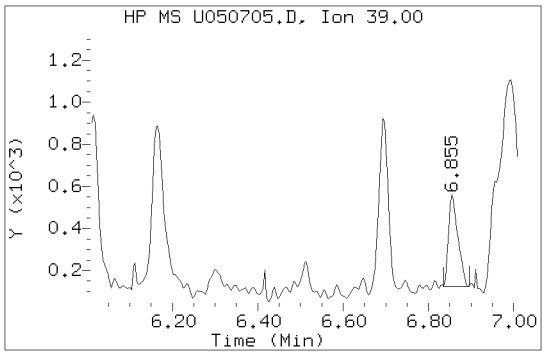
AFTER
MASS
43
AREA
1049
HEIGHT
555
28-May-2024
10:32
firat



BEFORE
MASS
39
AREA
664
HEIGHT
437
07-May-2024
16:19
firat
tastan



AFTER
MASS
39
AREA
664
HEIGHT
437
28-May-2024
10:32
firat



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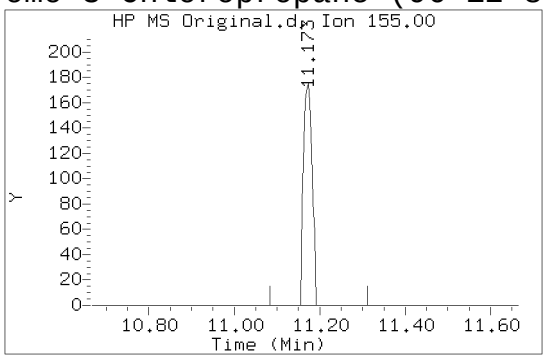
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

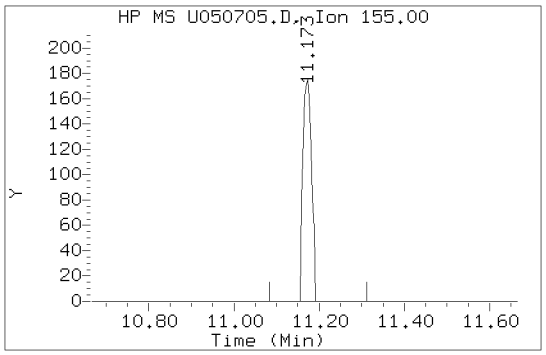
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

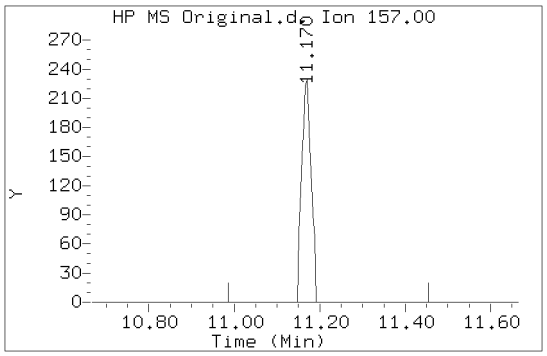
BEFORE
MASS
155
AREA
256
HEIGHT
175
07-May-2024
16:19
firat
tastan



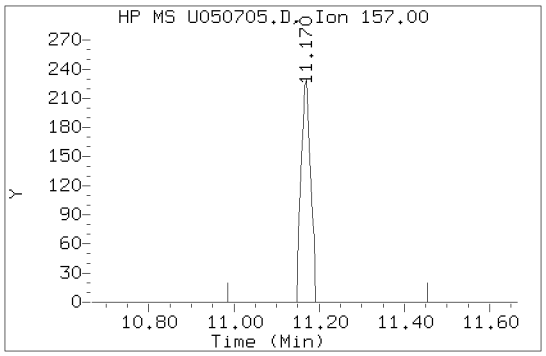
AFTER
MASS
155
AREA
256
HEIGHT
175
28-May-2024
10:32
firat



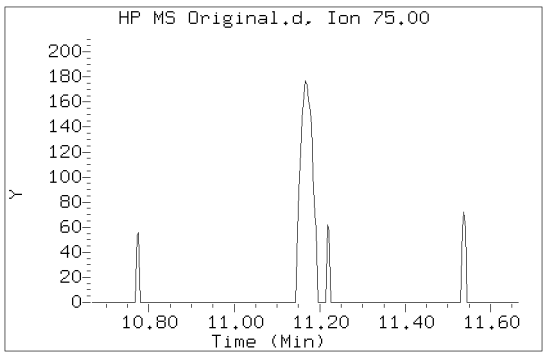
BEFORE
MASS
157
AREA
361
HEIGHT
229
07-May-2024
16:19
firat
tastan



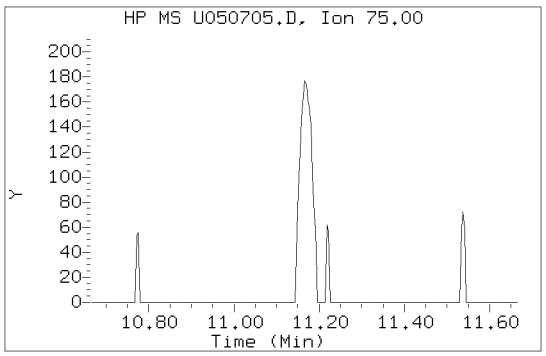
AFTER
MASS
157
AREA
361
HEIGHT
229
28-May-2024
10:32
firat



BEFORE
MASS
75
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



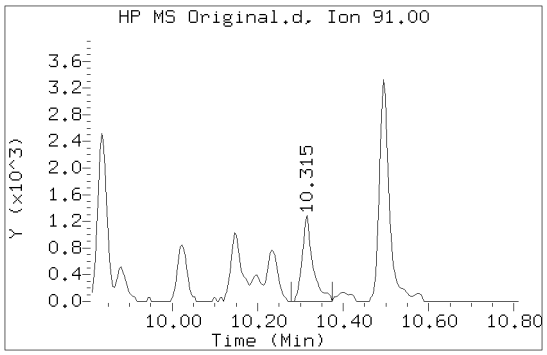
AFTER
MASS
75
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



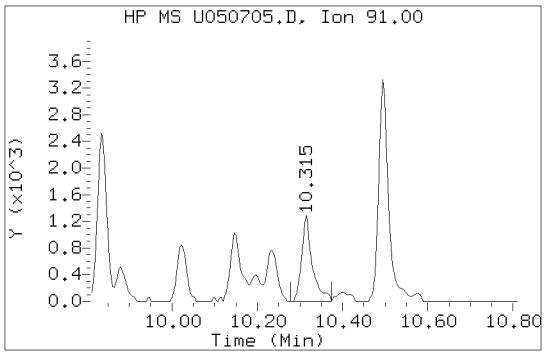
Benzyl Chloride (100-44-7)

Reason Code:

BEFORE
MASS
91
AREA
2290
HEIGHT
1291
07-May-2024
16:19
firat
tastan



AFTER
MASS
91
AREA
2290
HEIGHT
1291
28-May-2024
10:32
firat



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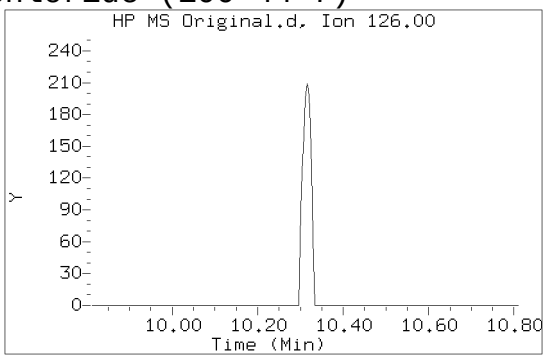
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

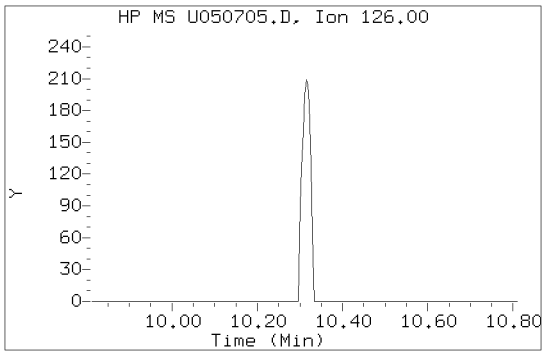
Benzyl Chloride (100-44-7)

Reason Code:

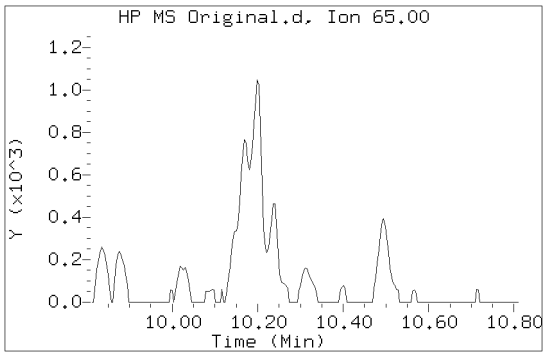
BEFORE
MASS
126
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



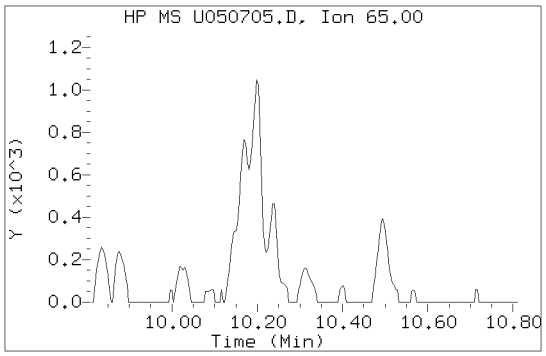
AFTER
MASS
126
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



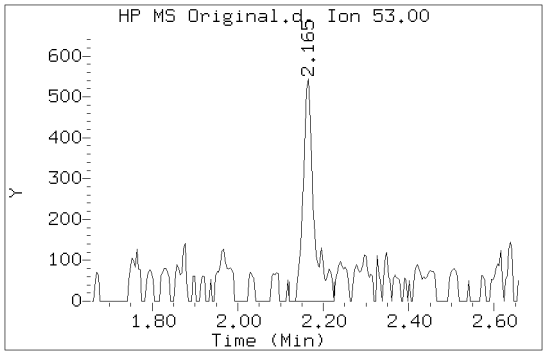
AFTER
MASS
65
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



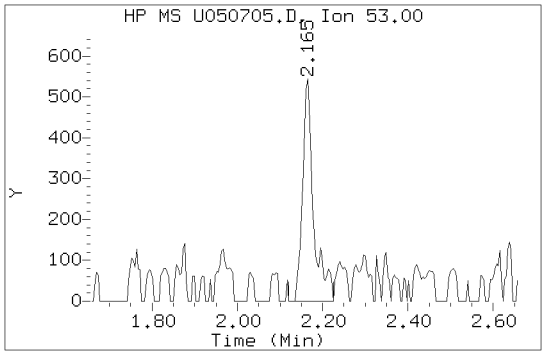
Chloroprene (126-99-8)

Reason Code:

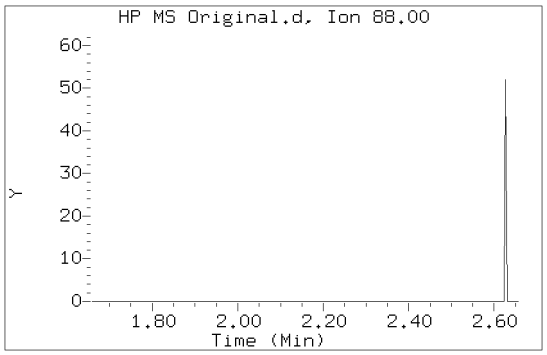
BEFORE
MASS
53
AREA
993
HEIGHT
544
07-May-2024
16:19
firat
tastan



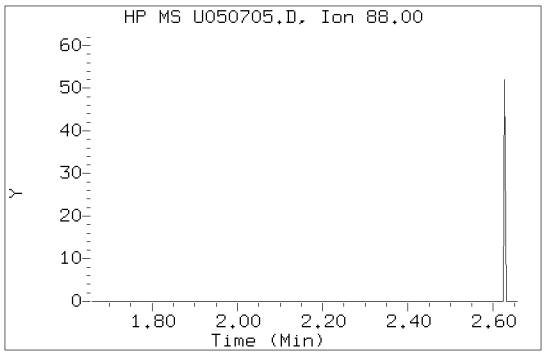
AFTER
MASS
53
AREA
993
HEIGHT
544
28-May-2024
10:32
firat



BEFORE
MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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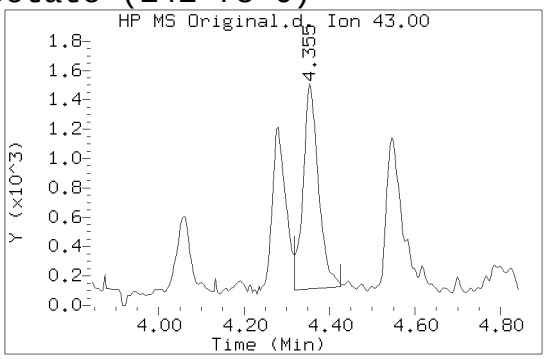
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

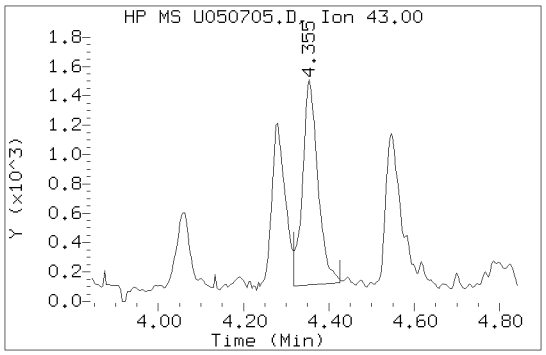
BEFORE

MASS
43
AREA
3554
HEIGHT
1398
07-May-2024
16:19
firat
tastan



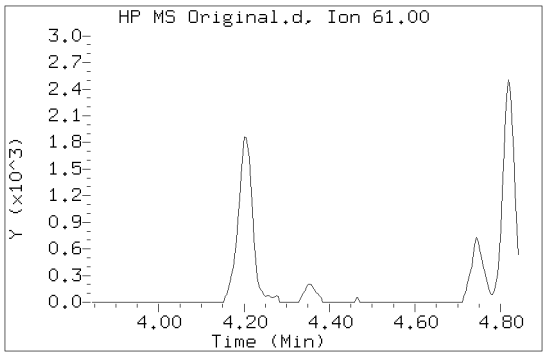
AFTER

MASS
43
AREA
3554
HEIGHT
1398
28-May-2024
10:32
firat



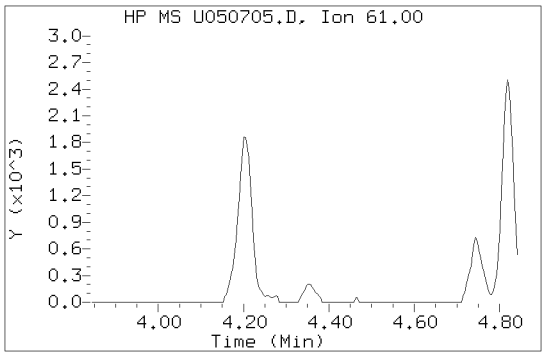
BEFORE

MASS
61
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



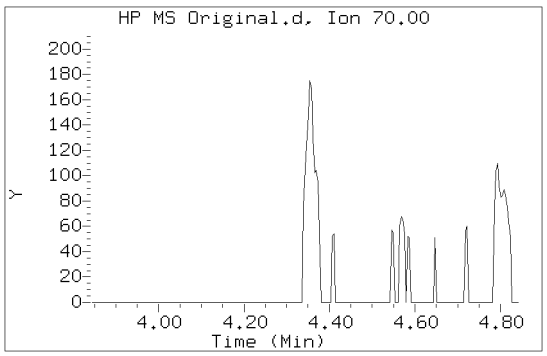
AFTER

MASS
61
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



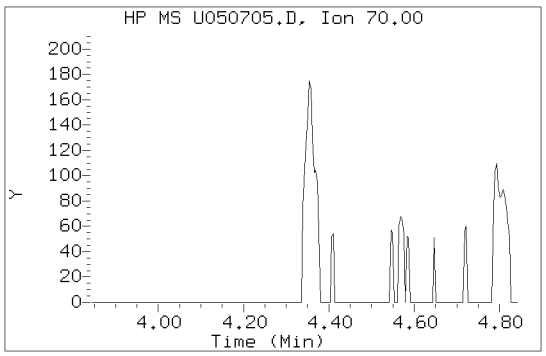
BEFORE

MASS
70
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

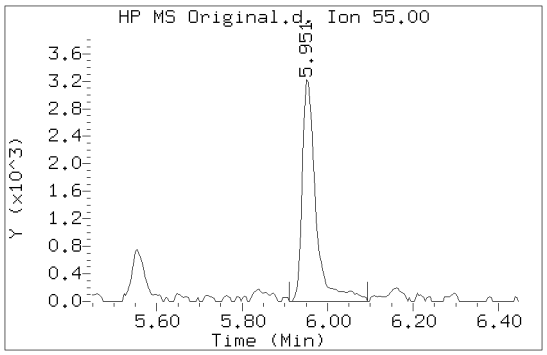


Ethyl Acrylate (140-88-5)

Reason Code:

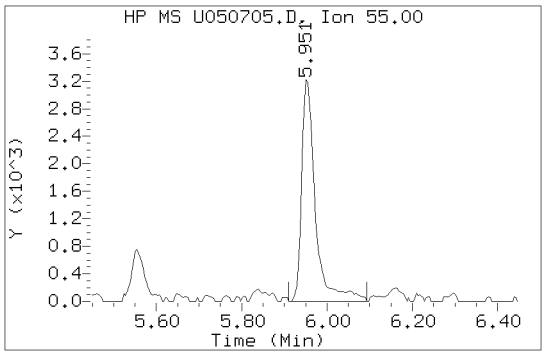
BEFORE

MASS
55
AREA
7288
HEIGHT
3223
07-May-2024
16:19
firat
tastan



AFTER

MASS
55
AREA
7288
HEIGHT
3223
28-May-2024
10:32
firat



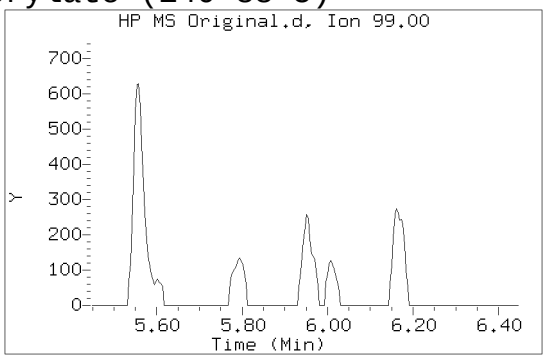
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050705.D
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

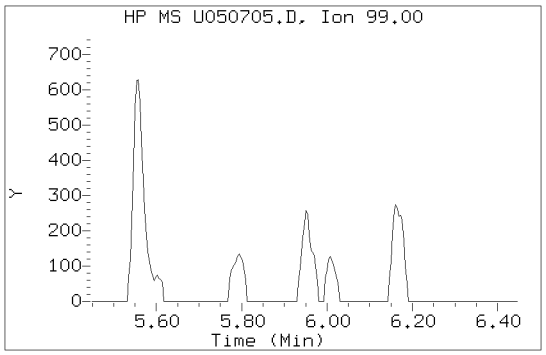
BEFORE

MASS
99
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
28-May-2024
10:32
firat

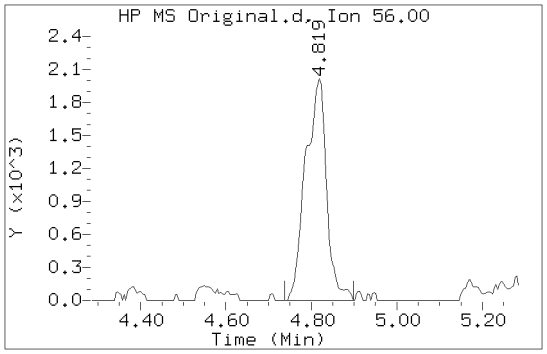


Cyclohexane (110-82-7)

Reason Code:

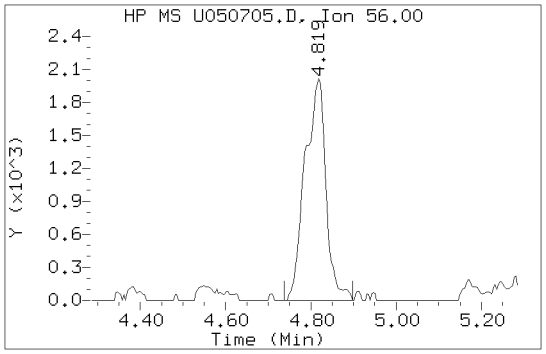
BEFORE

MASS
56
AREA
6934
HEIGHT
2016
07-May-2024
16:19
firat
tastan



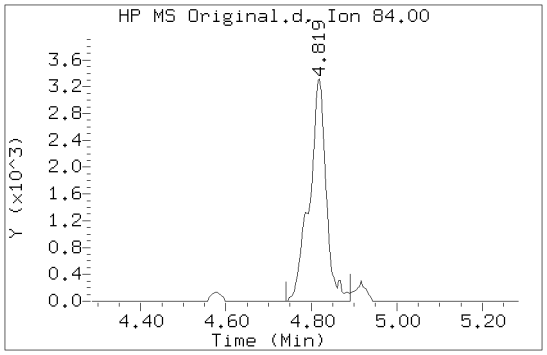
AFTER

MASS
56
AREA
6934
HEIGHT
2016
28-May-2024
10:32
firat



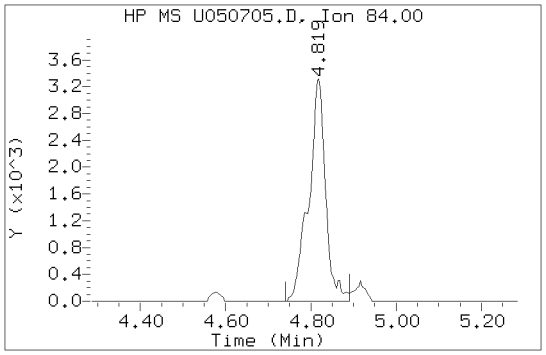
BEFORE

MASS
84
AREA
9169
HEIGHT
3317
07-May-2024
16:19
firat
tastan



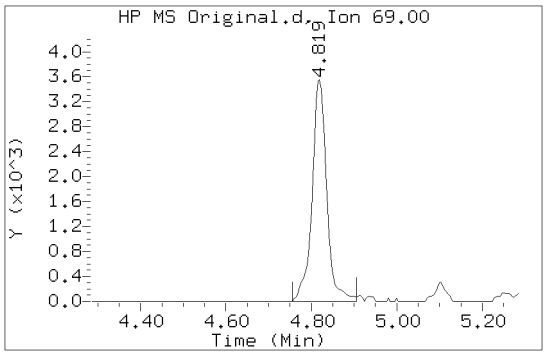
AFTER

MASS
84
AREA
9169
HEIGHT
3317
28-May-2024
10:32
firat



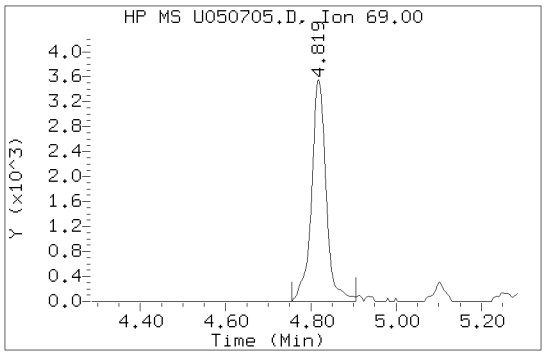
BEFORE

MASS
69
AREA
8497
HEIGHT
3552
07-May-2024
16:19
firat
tastan



AFTER

MASS
69
AREA
8497
HEIGHT
3552
28-May-2024
10:32
firat



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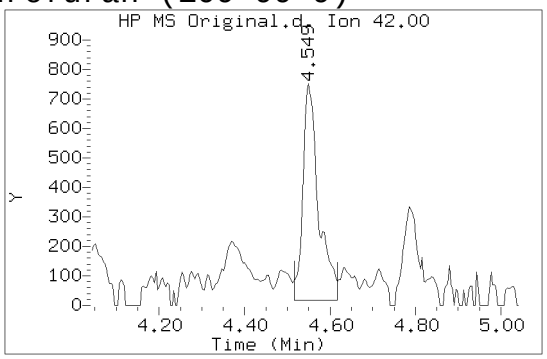
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

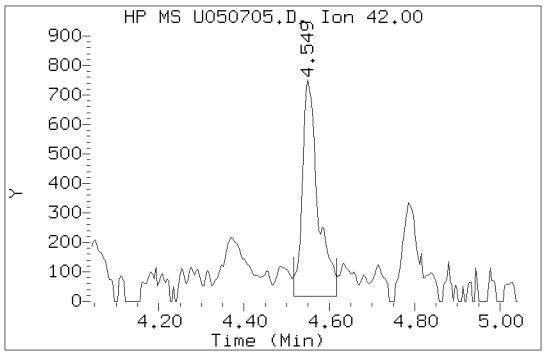
BEFORE

MASS
42
AREA
1900
HEIGHT
734
07-May-2024
16:19
firat
tastan



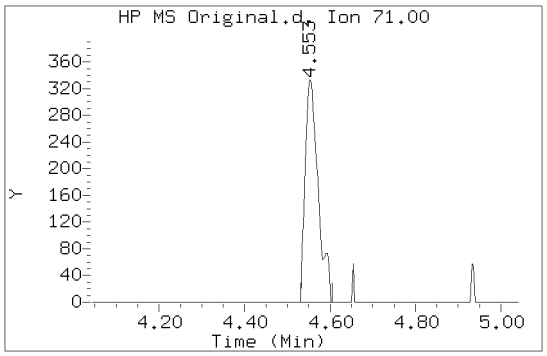
AFTER

MASS
42
AREA
1900
HEIGHT
734
28-May-2024
10:32
firat



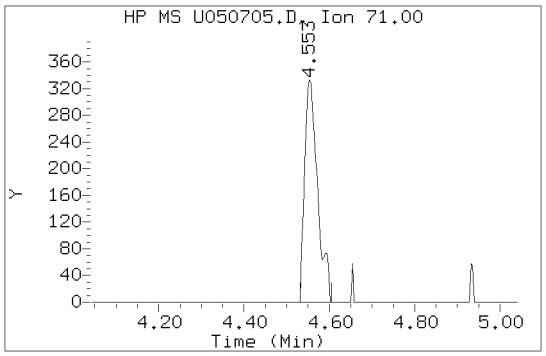
BEFORE

MASS
71
AREA
714
HEIGHT
333
07-May-2024
16:19
firat
tastan



AFTER

MASS
71
AREA
714
HEIGHT
333
28-May-2024
10:32
firat

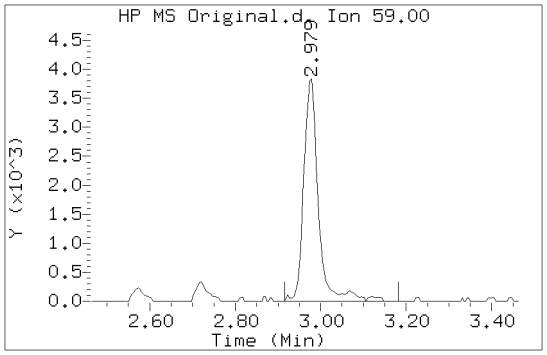


Tert-butyl alcohol (75-65-0)

Reason Code:

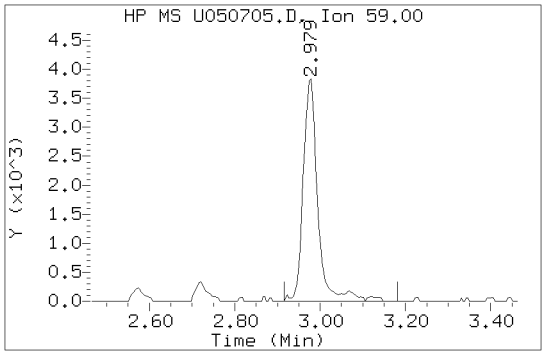
BEFORE

MASS
59
AREA
9237
HEIGHT
3834
07-May-2024
16:19
firat
tastan



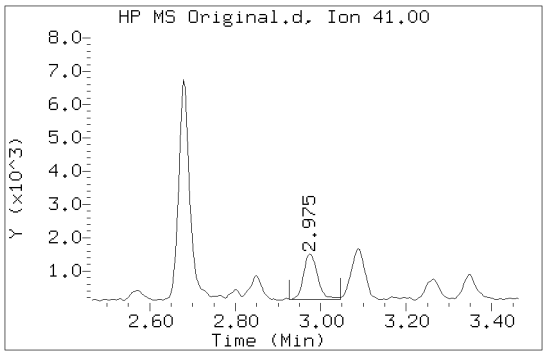
AFTER

MASS
59
AREA
9237
HEIGHT
3834
28-May-2024
10:32
firat



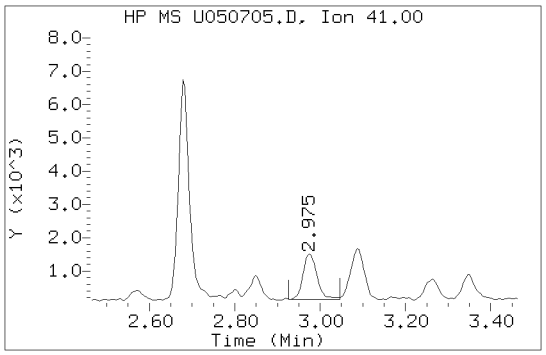
BEFORE

MASS
41
AREA
3130
HEIGHT
1355
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
3130
HEIGHT
1355
28-May-2024
10:32
firat



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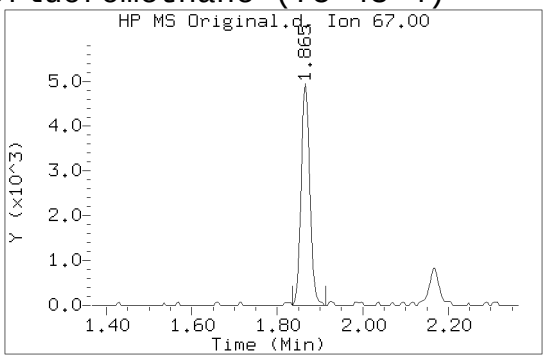
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

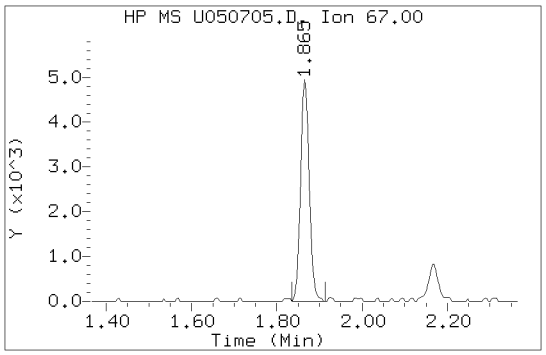
Dichlorofluoromethane (75-43-4)

Reason Code:

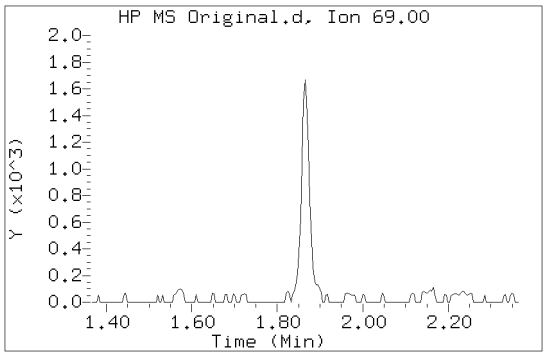
BEFORE
MASS
67
AREA
7156
HEIGHT
4949
07-May-2024
16:19
firat
tastan



AFTER
MASS
67
AREA
7156
HEIGHT
4949
28-May-2024
10:32
firat



BEFORE
MASS
69
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
69
AREA
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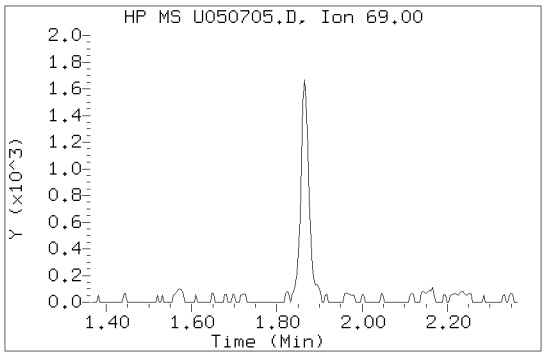
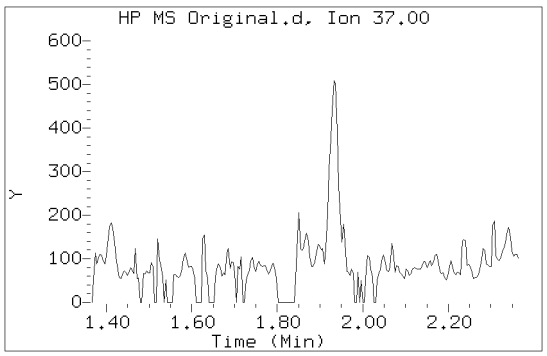
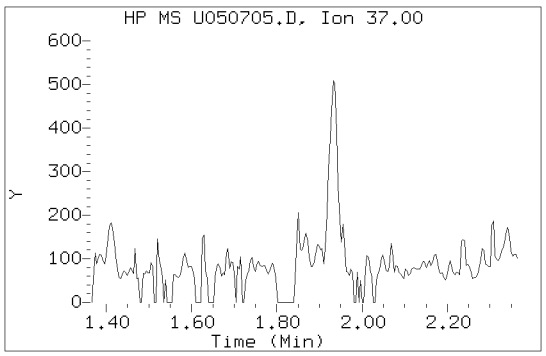
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
37
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
37
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



Ethanol (64-17-5)

Reason Code:

BEFORE
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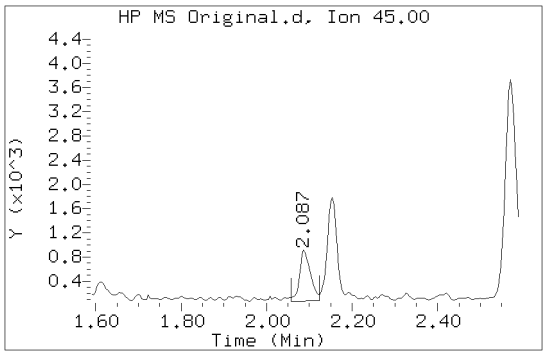
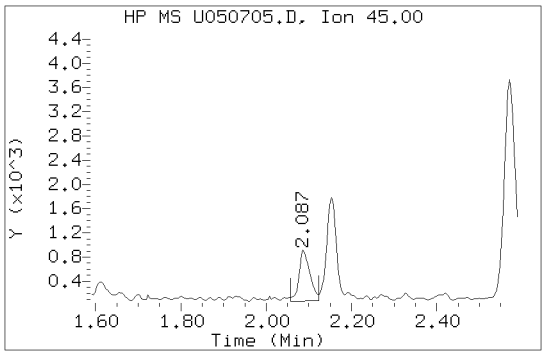
45
AREA
1541
HEIGHT
843
07-May-2024
16:19
firat
tastan



AFTER
MASS
45
AREA
1541
HEIGHT
843
28-May-2024
10:32
firat



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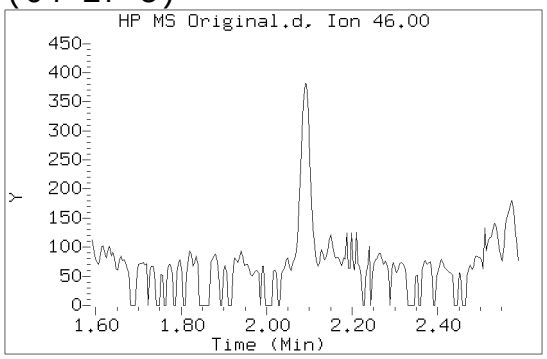
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

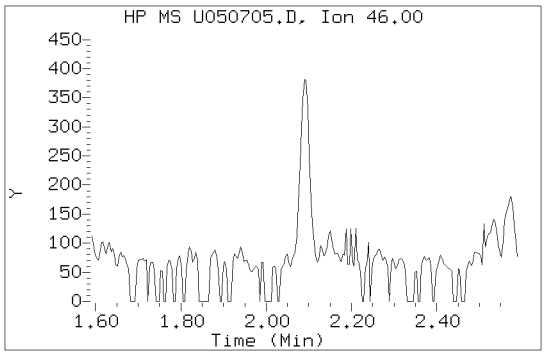
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
46
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
46
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE
MASS
43
AREA
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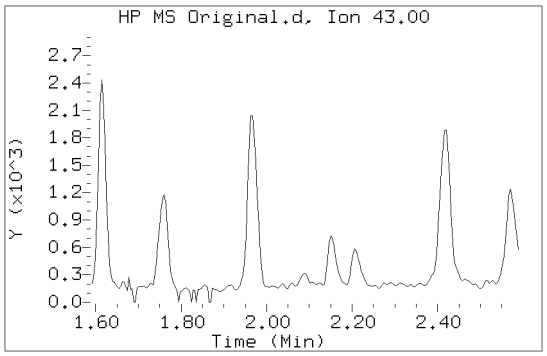
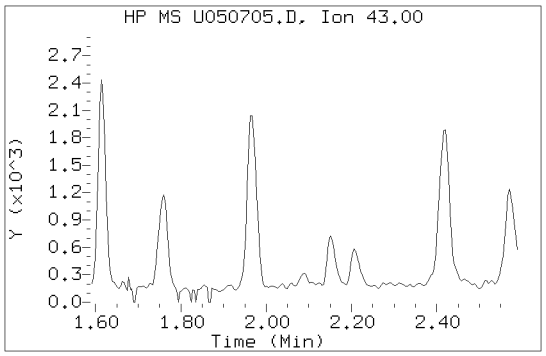
HEIGHT
0
07-May-2024
16:19
firat
tastan



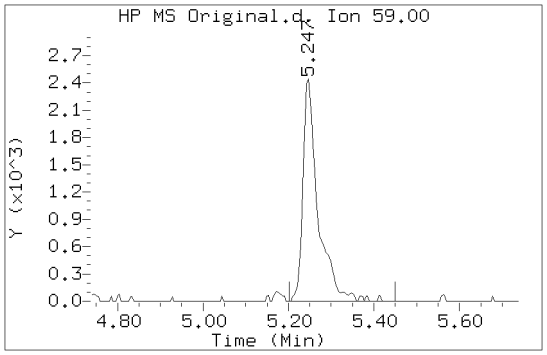
AFTER
MASS
43
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



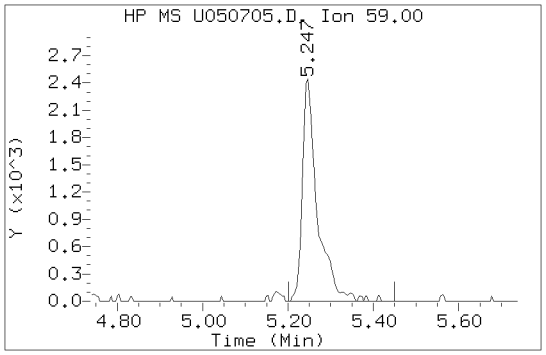
tert-Butyl formate (762-75-4)

Reason Code:

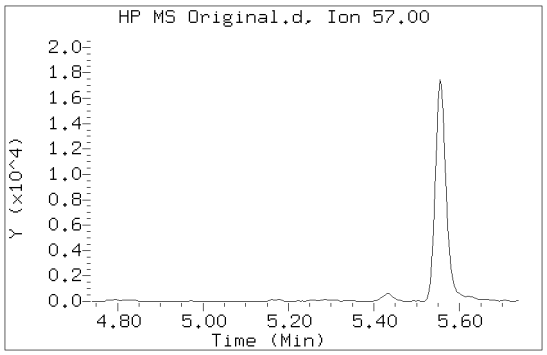
BEFORE
MASS
59
AREA
6077
HEIGHT
2444
07-May-2024
16:19
firat
tastan



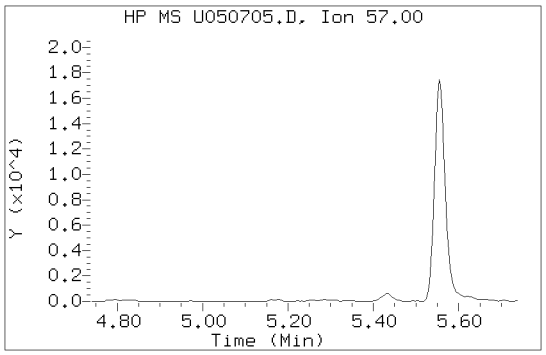
AFTER
MASS
59
AREA
6077
HEIGHT
2444
28-May-2024
10:32
firat



BEFORE
MASS
57
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
57
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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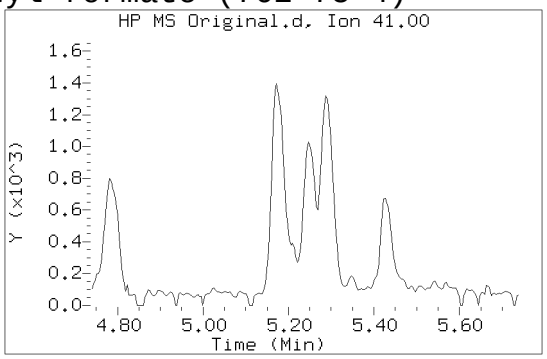
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

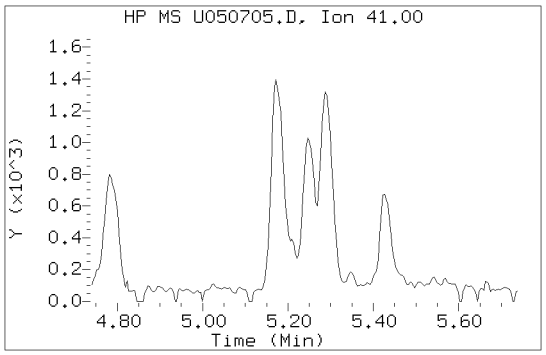
BEFORE

MASS
41
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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

Reason Code:

BEFORE

MASS
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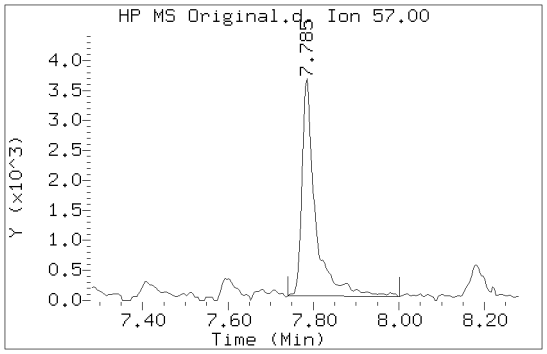
AREA
8149
HEIGHT
3627
07-May-2024
16:19
firat
tastan



AFTER

MASS
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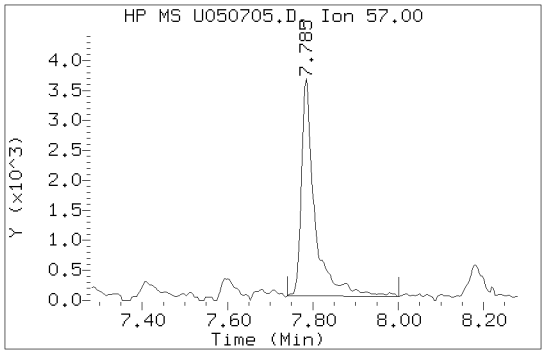
AREA
8149
HEIGHT
3627
28-May-2024
10:32
firat



BEFORE

MASS
67
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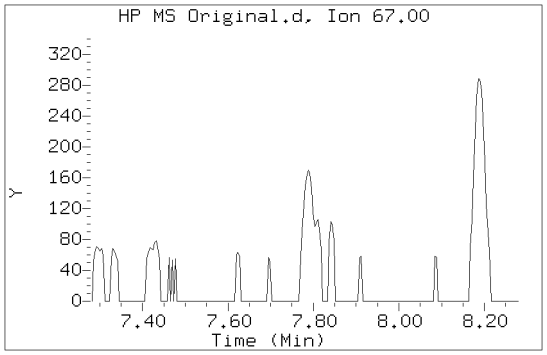
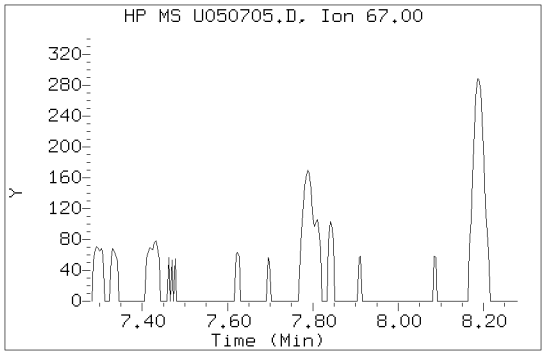
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



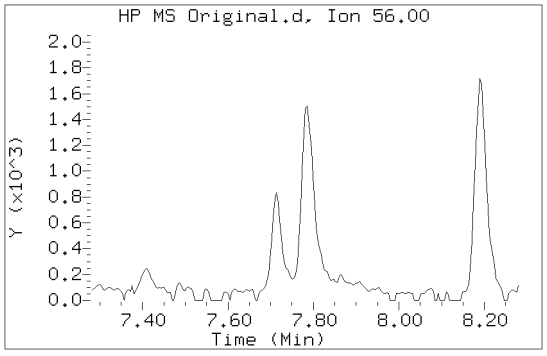
AFTER

MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER

MASS
56
AREA
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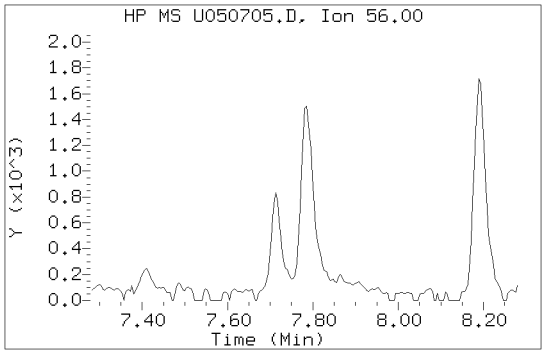
HEIGHT
0
28-May-2024
10:32
firat



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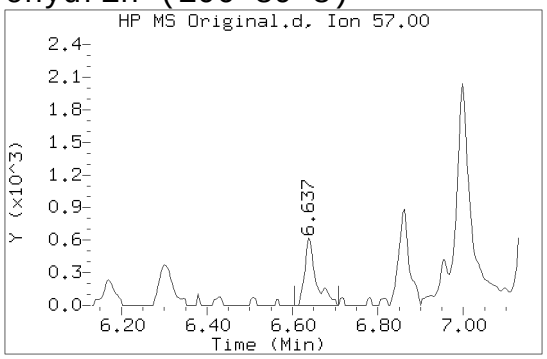
Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

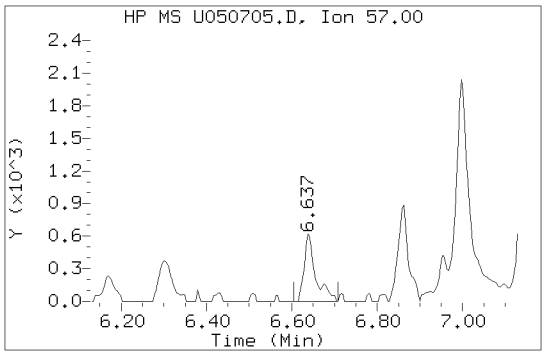
Epichlorohydrin (106-89-8)

Reason Code:

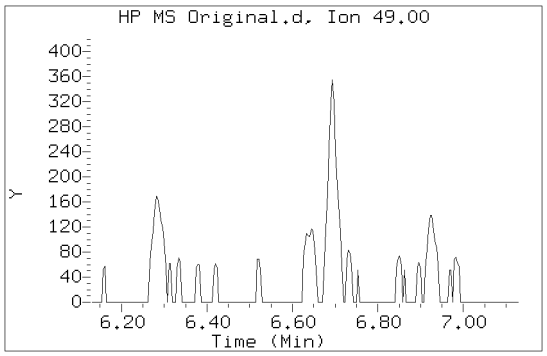
BEFORE
MASS
57
AREA
1163
HEIGHT
620
07-May-2024
16:19
firat
tastan



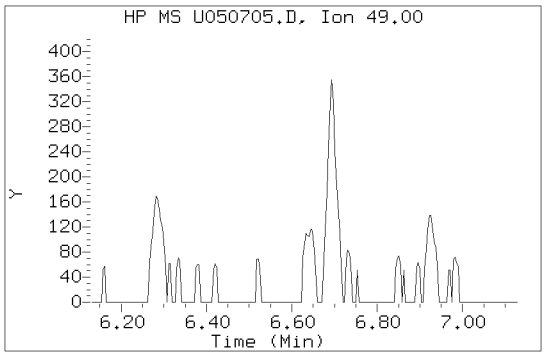
AFTER
MASS
57
AREA
1163
HEIGHT
620
28-May-2024
10:32
firat



BEFORE
MASS
49
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



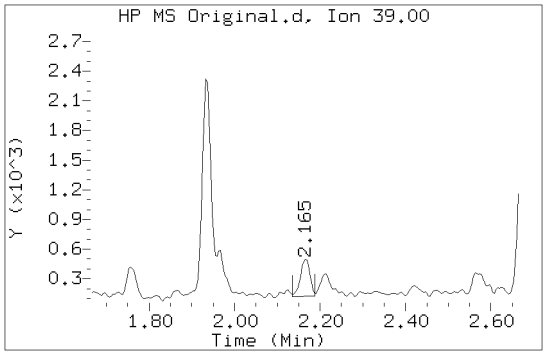
AFTER
MASS
49
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



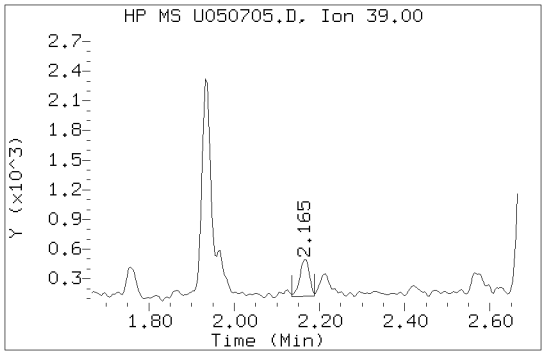
Isoprene (78-79-5)

Reason Code:

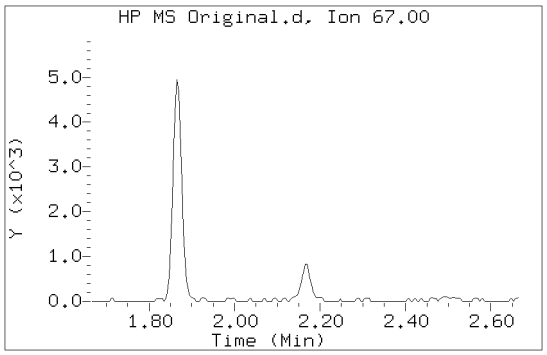
BEFORE
MASS
39
AREA
612
HEIGHT
375
07-May-2024
16:19
firat
tastan



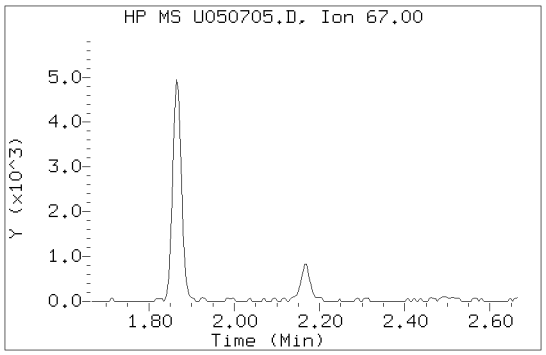
AFTER
MASS
39
AREA
612
HEIGHT
375
28-May-2024
10:32
firat



BEFORE
MASS
67
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
tastan



AFTER
MASS
67
AREA
0
HEIGHT
0
28-May-2024
10:32
firat



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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
53
AREA
0
HEIGHT
0
07-May-2024
16:19
firat
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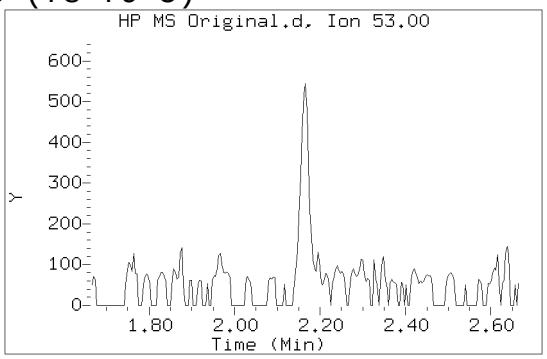

AFTER

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28-May-2024
10:32
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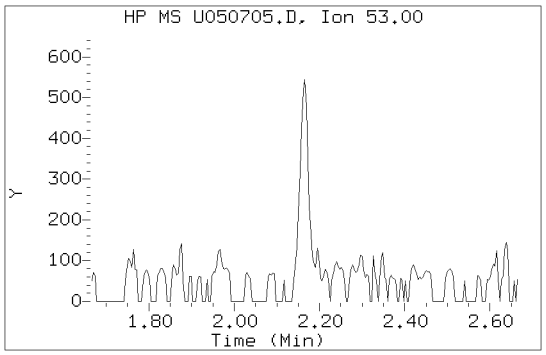

n-Amyl acetate (628-63-7)

Reason Code:

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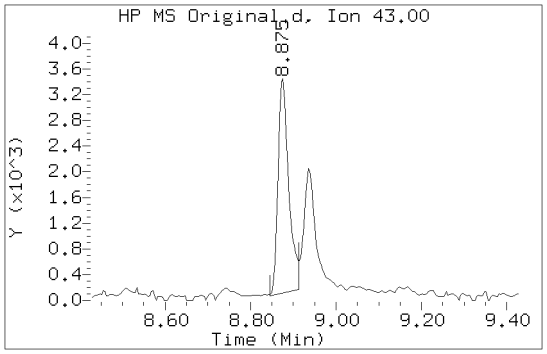

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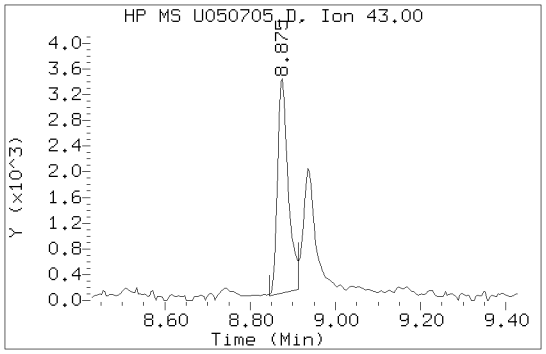

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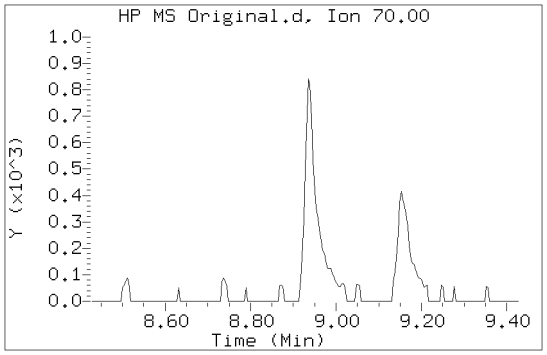

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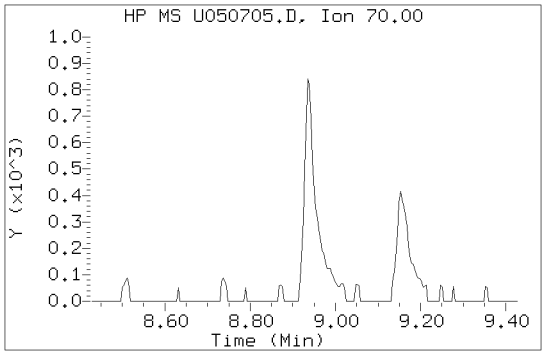

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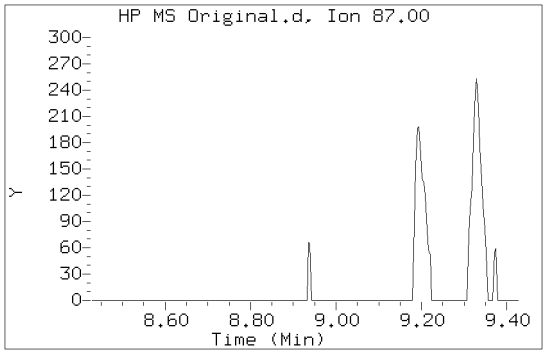

AFTER

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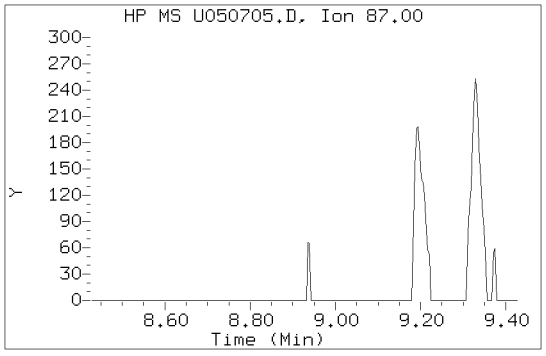

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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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07-May-2024
16:19
firat
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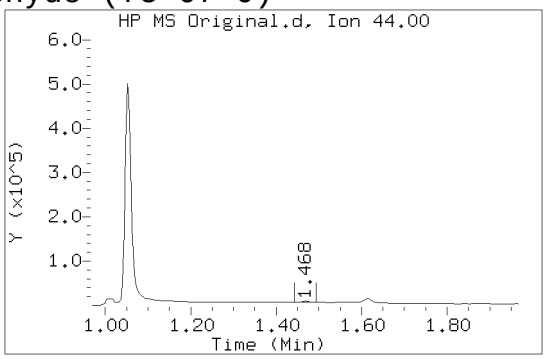

AFTER

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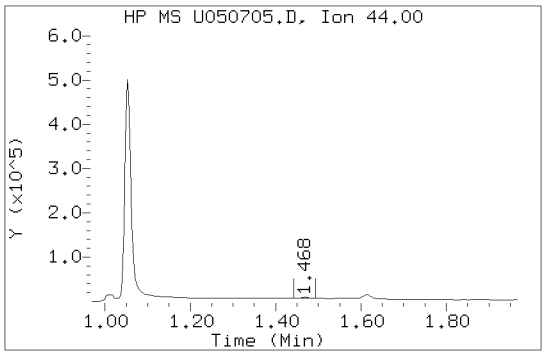
28-May-2024
10:32
firat



BEFORE

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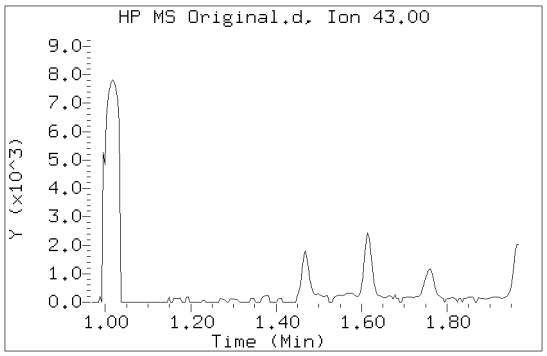

AFTER

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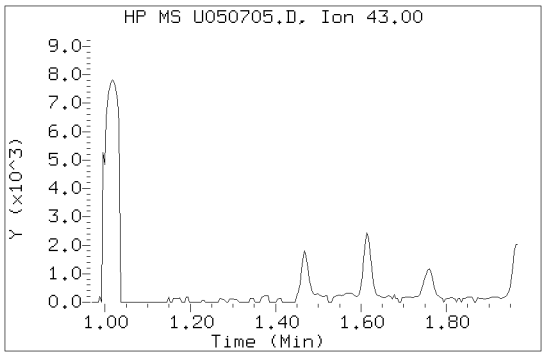

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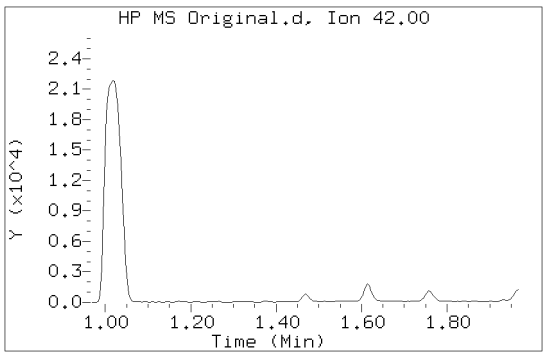

AFTER

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10:32
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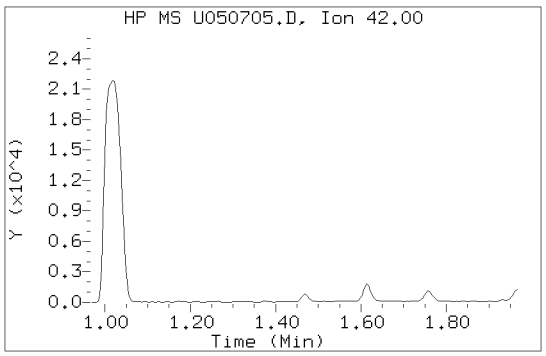

Isobutylene (115-11-7)

Reason Code:

BEFORE

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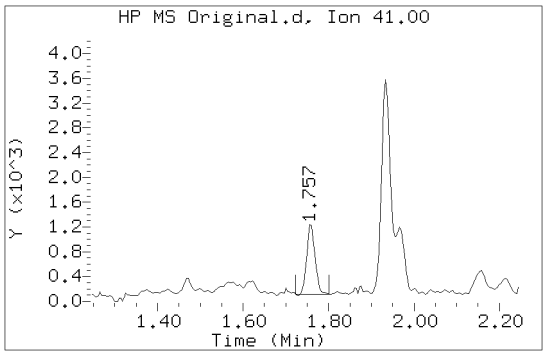

AFTER

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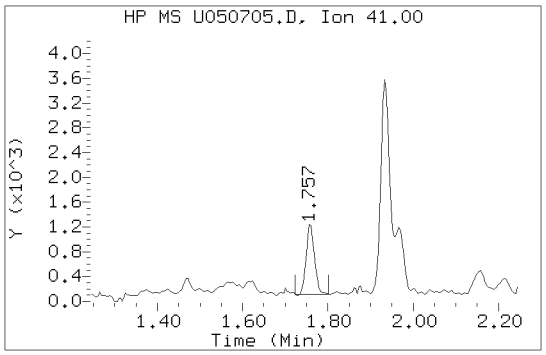

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Inj Date : 07-MAY-2024 13:09
InstruID : VOA9.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

BEFORE
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07-May-2024
16:19
firat
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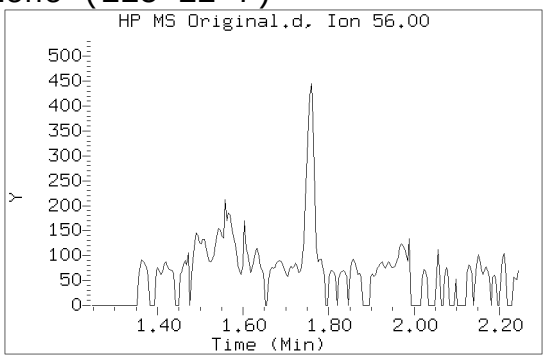

AFTER
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28-May-2024
10:32
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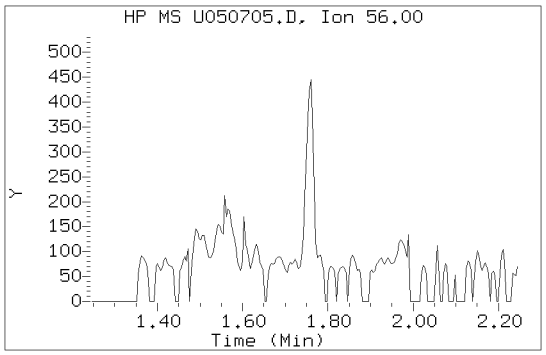

BEFORE
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07-May-2024
16:19
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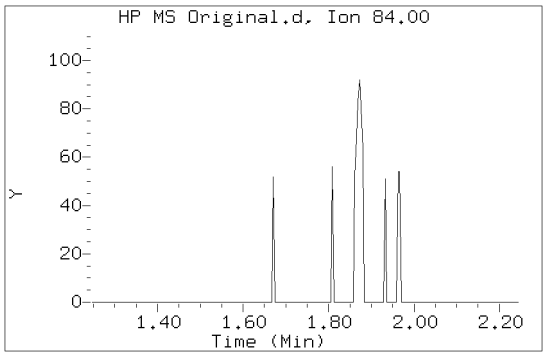

AFTER
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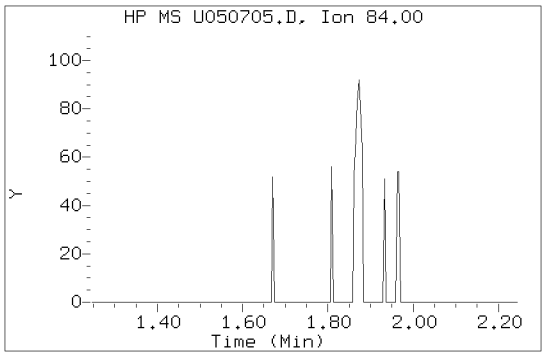

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
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07-May-2024
16:19
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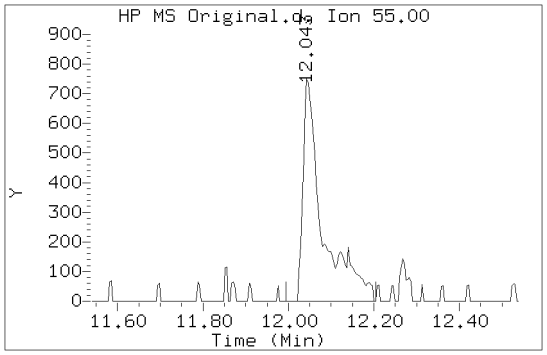

AFTER
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10:32
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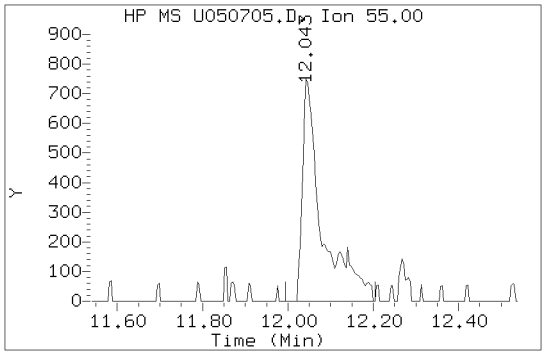

BEFORE
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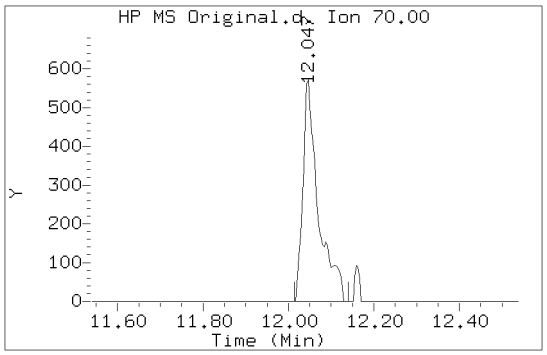

AFTER
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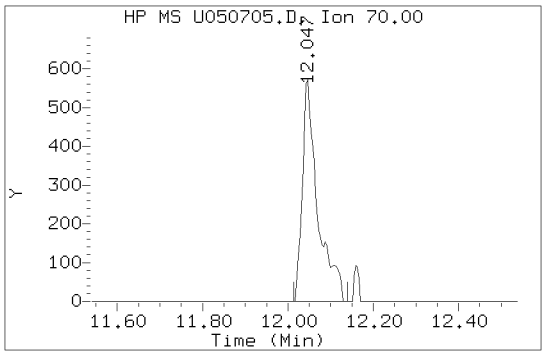


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 07-MAY-2024 13:31
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:09 Cal File: U050705.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: 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)	229273	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	6995	5.00000	5.42
3	Chloromethane	50	1.299	1.299	(0.270)	10242	5.00000	4.89
4	Propionitrile	54	4.339	4.339	(0.901)	16521	50.0000	44.43(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	9419	5.00000	5.11
6	Bromomethane	94	1.618	1.618	(0.336)	7113	5.00000	6.86
7	Chloroethane	64	1.700	1.700	(0.353)	7332	5.00000	5.38
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	11234	5.00000	5.19
9	Acrolein	56	2.262	2.262	(0.470)	2063	10.0000	19.73(aM)
10	Acetone	43	2.408	2.408	(0.500)	7115	10.0000	7.98
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	6623	5.00000	5.28
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	23279	100.000	96.23(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	12145	50.0000	53.42(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	30771	5.00000	5.30(a)
15	Iodomethane	142	2.468	2.468	(0.513)	9847	10.0000	8.44
16	Acrylonitrile	53	3.068	3.068	(0.637)	8951	10.0000	8.13
17	Methylene Chloride	84	2.795	2.795	(0.580)	11146	5.00000	4.71
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	28098	5.00000	5.25
19	Carbon Disulfide	76	2.521	2.521	(0.524)	33657	10.0000	9.33
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	6703	5.00000	4.68

21 Vinyl Acetate	43	4.347	4.347 (0.903)	10513	10.0000	10.66(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	13839	5.00000	5.17

	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)	3544	5.00000	6.03(M)
	24 2-Butanone	43	4.272	4.272	(0.887)	6762	10.0000	9.33
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	5925	5.00000	4.74(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	7317	5.00000	4.88
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	7881	5.00000	5.01
	28 Chloroform	83	4.571	4.571	(0.949)	13088	5.00000	4.96
	29 Bromochloromethane	128	4.470	4.470	(0.928)	3845	5.00000	4.44
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	9896	5.00000	4.10
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	8861	5.00000	4.69
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	9352	5.00000	4.76
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	10560	5.00000	4.75
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	7430	5.00000	5.02
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	13371	5.00000	3.97
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	340600	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	29399	5.00000	4.81
	38 Trichloroethene	130	5.790	5.790	(1.043)	7532	5.00000	5.06
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	7262	5.00000	4.18(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	4231	5.00000	5.29(a)
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.194)	91	10.0000	7.56(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	8250	5.00000	5.29
	43 2-Nitropropane	43	6.510	6.510	(1.352)	1785	5.00000	3.97(a)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4856	5.00000	4.84(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	14567	10.0000	8.43
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	7260	5.00000	4.47(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	305593	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	36394	5.00000	4.34(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	13422	5.00000	5.38(a)
	50 Toluene	91	6.982	6.982	(0.853)	29814	5.00000	4.94(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5385	5.00000	4.44(a)
	52 2-Hexanone	43	7.597	7.597	(0.928)	9915	10.0000	11.16
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	5883	5.00000	4.69(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	12548	5.00000	4.75(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	5064	5.00000	5.68
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	5739	5.00000	4.97(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	6394	5.00000	4.55(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	8914	5.00000	5.02
	59 Chlorobenzene	112	8.211	8.211	(1.003)	20341	5.00000	4.84(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	5265	5.00000	5.56
	61 Ethylbenzene	106	8.309	8.309	(1.015)	9388	5.00000	4.74(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	22772	10.0000	9.50(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	10944	5.00000	4.57(a)
	64 Styrene	104	8.763	8.763	(1.071)	18622	5.00000	4.60(a)
	66 Bromoform	173	8.920	8.920	(1.090)	2885	5.00000	4.73(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	27170	5.00000	4.72(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9413	5.00000	5.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	13624	5.00000	4.30(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	154736	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	9835	5.00000	4.99(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	2204	5.00000	5.64(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	29548	5.00000	4.74(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	8026	5.00000	4.77(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	20818	5.00000	4.62(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	19567	5.00000	4.64(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	22065	5.00000	4.64(a)

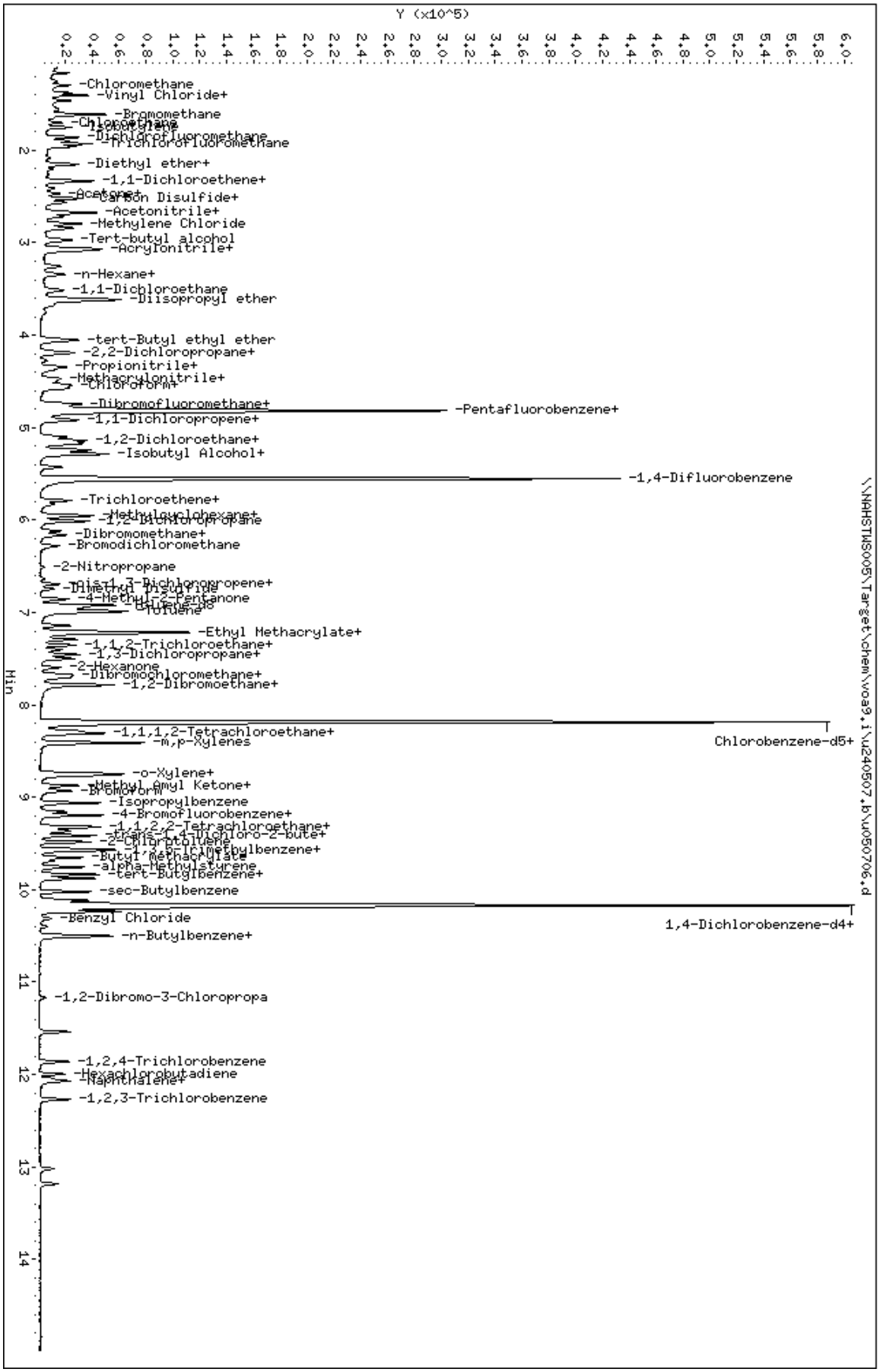
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	18821	5.00000	4.97(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	20605	5.00000	4.67(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	23448	5.00000	4.70(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	19891	5.00000	4.58(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13884	5.00000	4.72(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	15489	5.00000	5.51
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5627	5.00000	5.96
87	n-Butylbenzene	91	10.494	10.494	(1.032)	17285	5.00000	4.90(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14138	5.00000	5.21
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	827	5.00000	5.16
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	7474	5.00000	4.92(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	3679	5.00000	4.90(a)
92	Naphthalene	128	12.069	12.069	(1.186)	16682	5.00000	5.31
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	7813	5.00000	4.48(a)
146	Methyl acetate	43	2.712	2.712	(0.563)	16801	5.00000	4.94(a)
138	Freon TF	101	2.337	2.337	(0.485)	6636	5.00000	5.43
141	Cyclohexane	56	4.785	4.785	(0.994)	13919	5.00000	6.01
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	4287	10.0000	8.85(M)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	19798	5.00000	4.70(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	2798	100.000	101.00
132	n-Butanol	56	5.831	5.831	(1.211)	5772	100.000	93.82(a)
136	n-Hexane	57	3.342	3.342	(0.694)	7275	5.00000	4.83(a)
139	Diethyl ether	59	2.146	2.146	(0.446)	8441	5.00000	5.24
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	21887	100.000	104.91
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	16893	100.000	92.24(T)
152	Amyl alcohol	42	7.402	7.402	(0.904)	6413	100.000	105.18
156	Diisopropyl ether	45	3.623	3.623	(0.752)	33500	5.00000	5.16(T)
162	Butyl acrylate	55	8.736	8.736	(1.067)	12890	5.00000	4.99(a)
187	n-Amyl acetate	43	8.871	8.871	(1.084)	17652	5.00000	5.61(M)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39433	5.00000	5.09
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	30035	5.00000	5.23
167	Ethanol	45	2.082	2.082	(0.433)	3194	100.000	85.98(T)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	16499	10.0000	10.08(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	23589	100.000	126.13
174	tert-Amyl methyl ether	73	5.287	5.287	(1.098)	25759	5.00000	4.97(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	26328	5.00000	5.01
176	tert-Amyl alcohol	59	5.242	5.242	(1.089)	15819	100.000	100.54
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	51970	100.000	116.79
140	1,3-Butadiene	54	1.404	1.404	(0.292)	7715	5.00000	5.19
158	Dichlorofluoromethane	67	1.857	1.857	(0.386)	18765	5.00000	5.76(M)
182	Epichlorohydrin	57	6.633	6.633	(1.194)	2574	20.0000	17.69
M 94	1,2-Dichloroethylene (total)	96				14584	10.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	9215	5.00000	5.74
130	Ethyl Acetate	43	4.347	4.347	(0.903)	9401	5.00000	4.80(a)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	12024	5.00000	4.46(a)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	10359	5.00000	6.12
134	Cyclohexanone	55	9.156	9.156	(0.900)	7960	100.000	106.90(a)
185	Isoprene	39	2.157	2.157	(0.448)	2105	5.00000	5.70
188	Isopropyl acetate	43	5.287	5.287	(0.952)	23445	5.00000	4.85(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	7275	100.000	96.64
194	Acetaldehyde	44	1.460	1.460	(0.303)	9909	20.0000	17.17(M)
195	Methyl Amyl Ketone	43	8.871	8.871	(1.084)	17489	5.00000	6.26

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	3642	5.00000	5.26
202 Isobutylene	41	1.752	1.752 (0.364)	4808	5.00000	4.86(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.951	5.951	(1.236)	19798	5.00000	4.73(a)
163 Butyl methacrylate	41	9.651	9.651	(0.949)	10675	5.00000	5.32
159 Propylene oxide	43	2.202	2.202	(0.457)	1627	10.0000	10.55
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5129	5.00000	4.60(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: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

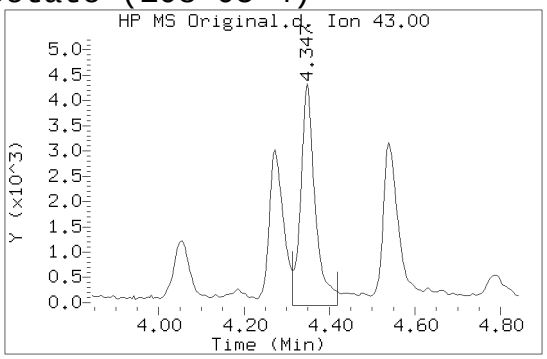
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050706.D
Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
43
AREA
10513
HEIGHT
4384
07-May-2024
14:14
firat
tastan



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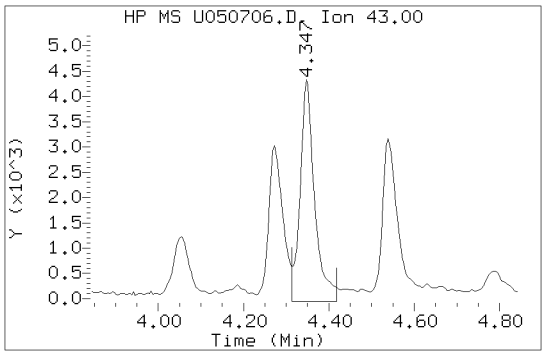

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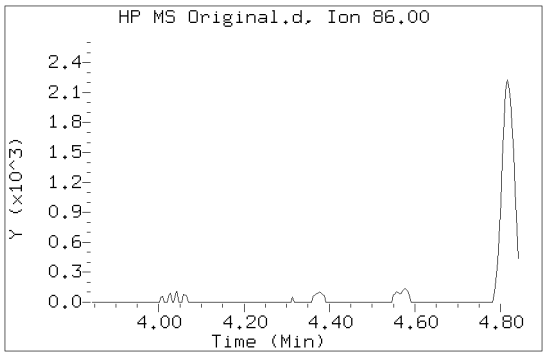

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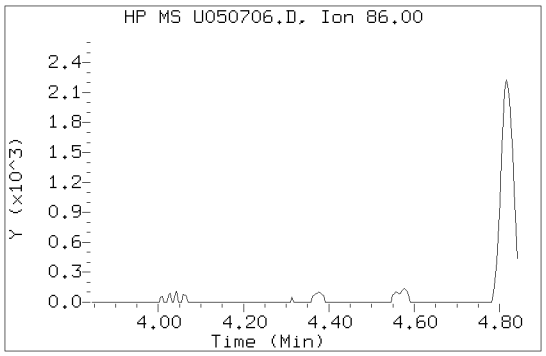

Acrolein (107-02-8)

Reason Code:

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07-May-2024
14:14
firat
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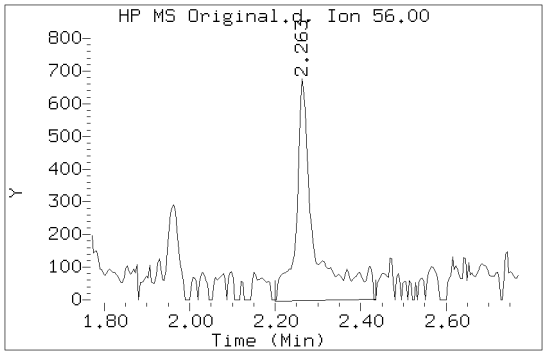

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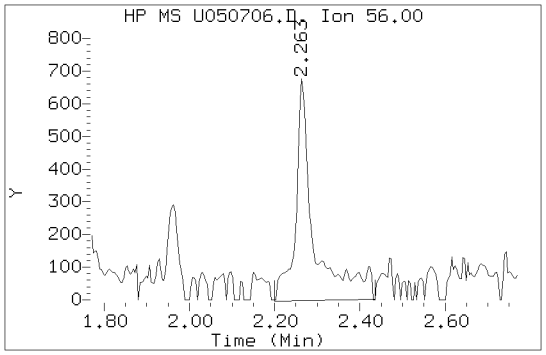

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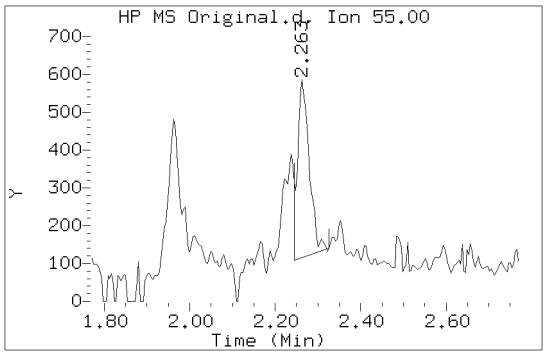

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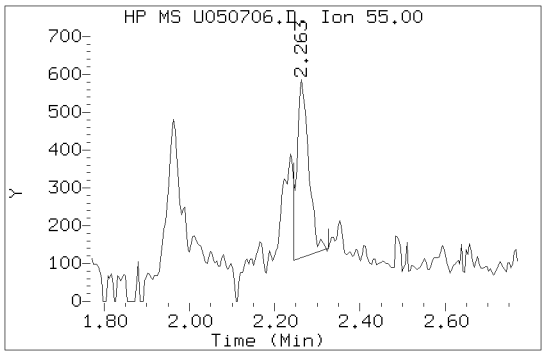

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InstruID : VOA9.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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14:14
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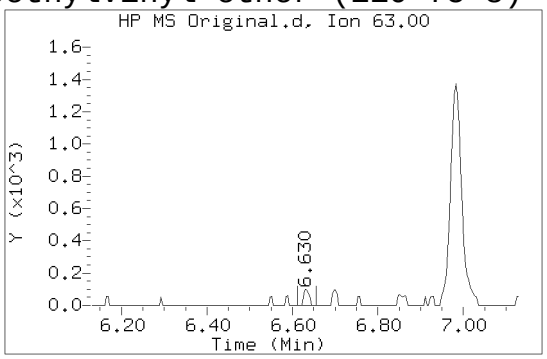

AFTER
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AREA
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HEIGHT
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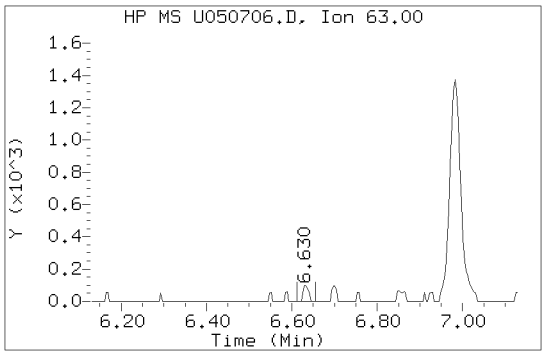
28-May-2024
10:32
firat



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14:14
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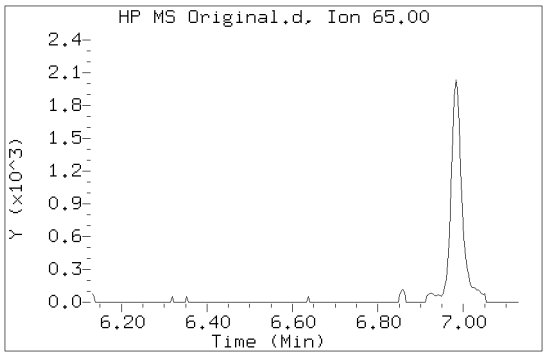

AFTER
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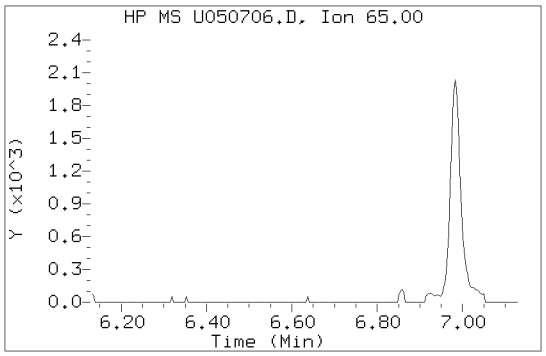

BEFORE
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14:14
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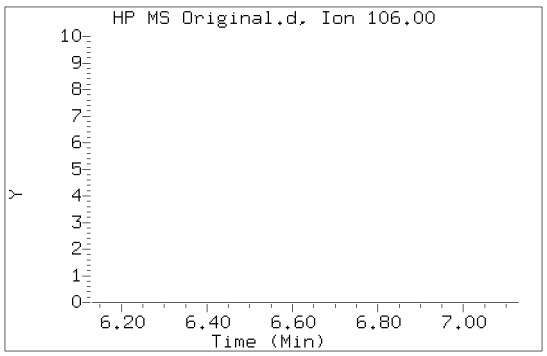

AFTER
MASS
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28-May-2024
10:32
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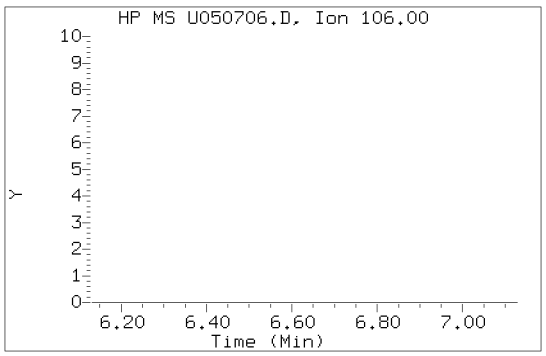

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
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AREA
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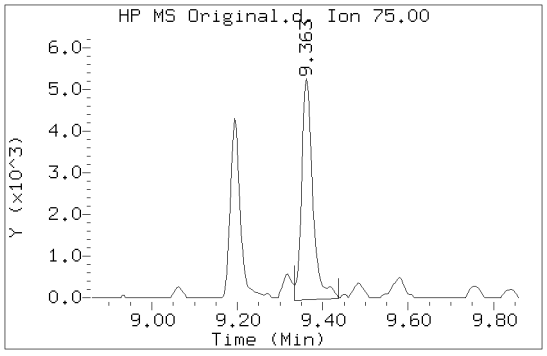
HEIGHT
5305
07-May-2024
14:14
firat
tastan



AFTER
MASS
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AREA
9835
HEIGHT
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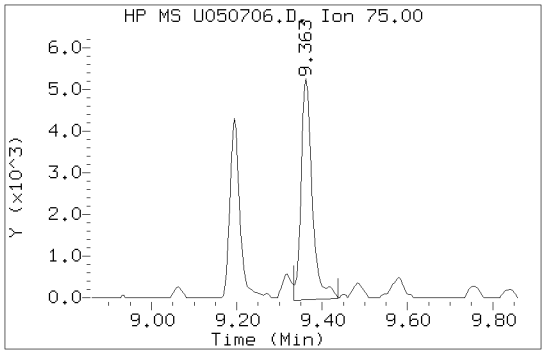
28-May-2024
10:32
firat



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InstruID : VOA9.i
LabSampID : VSTD005

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

Reason Code:

BEFORE

MASS
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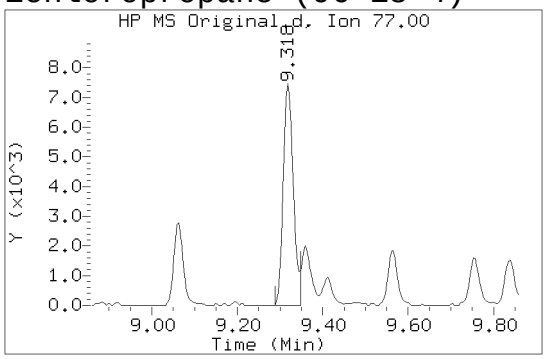
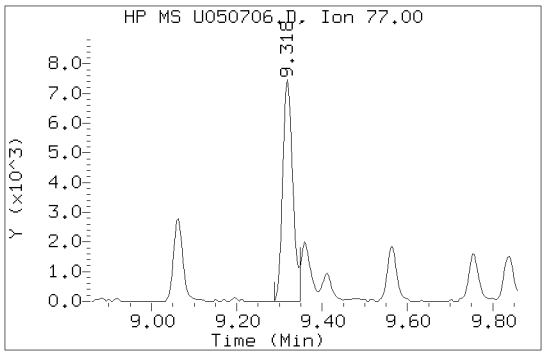
HEIGHT
7466
07-May-2024
14:14
firat
tastan



AFTER

MASS
77
AREA
12335
HEIGHT
7466
28-May-2024
10:32
firat



Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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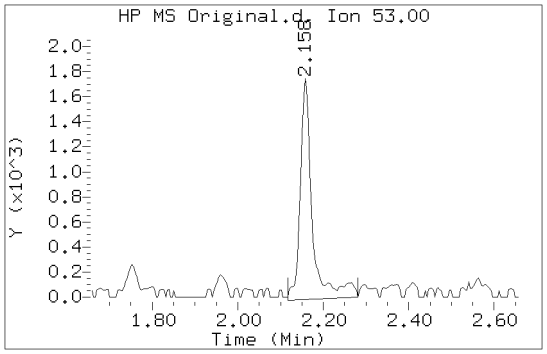
07-May-2024
14:14
firat
tastan



AFTER

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28-May-2024
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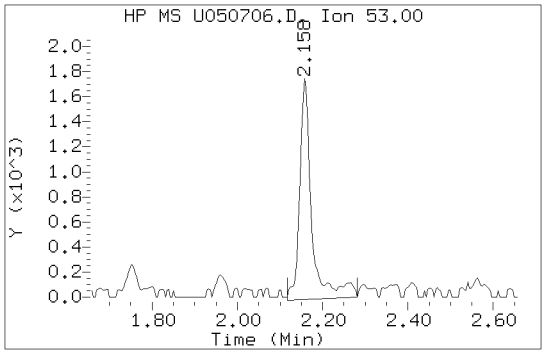
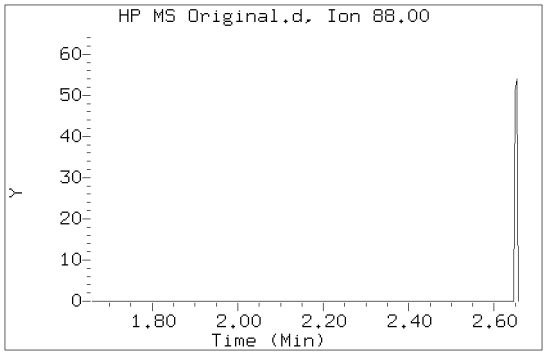


BEFORE

MASS
88
AREA
0
HEIGHT
0
07-May-2024
14:14
firat
tastan



AFTER

MASS
88
AREA
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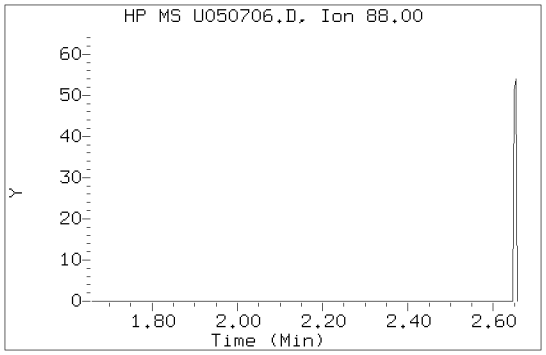
HEIGHT
0
28-May-2024
10:32
firat



Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

MASS
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AREA
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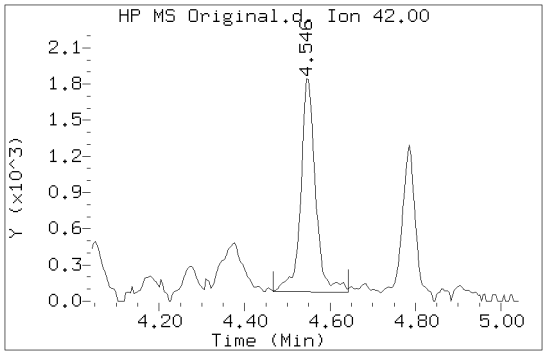
HEIGHT
1764
07-May-2024
14:14
firat
tastan



AFTER

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28-May-2024
10:32
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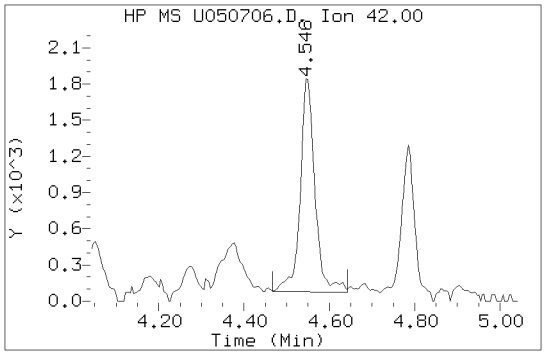

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InstruID : VOA9.i
LabSampID : VSTD005

Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

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AREA
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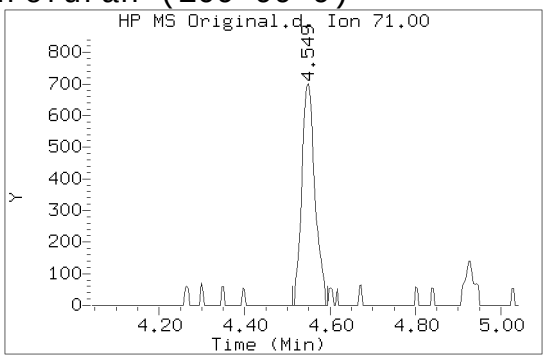
HEIGHT
701
07-May-2024
14:14
firat
tastan



AFTER

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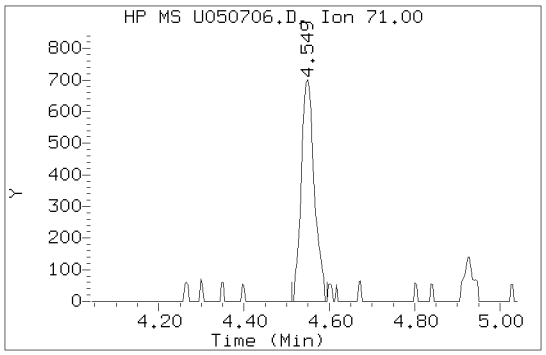

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

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HEIGHT
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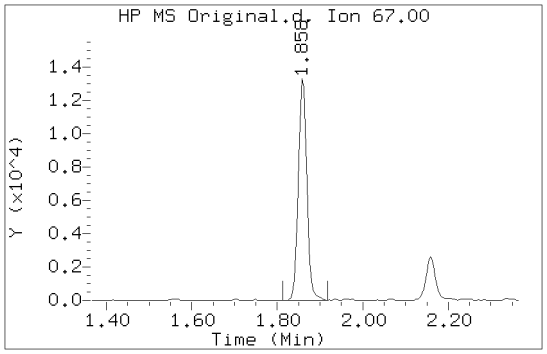
07-May-2024
14:14
firat
tastan



AFTER

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28-May-2024
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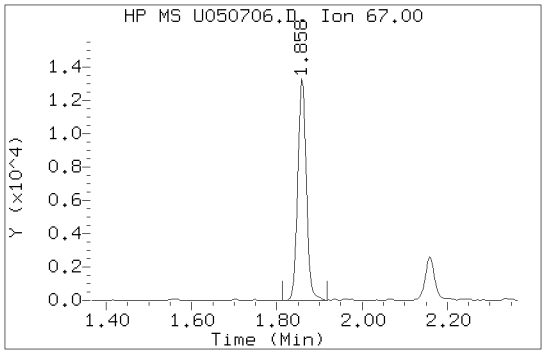

BEFORE

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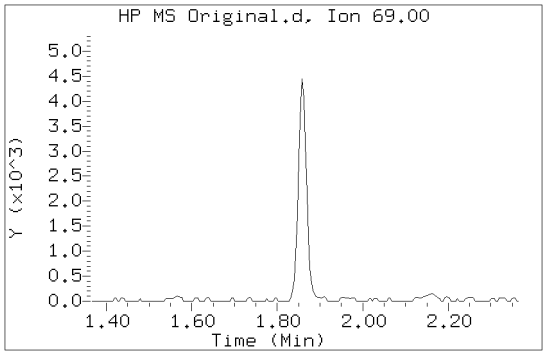

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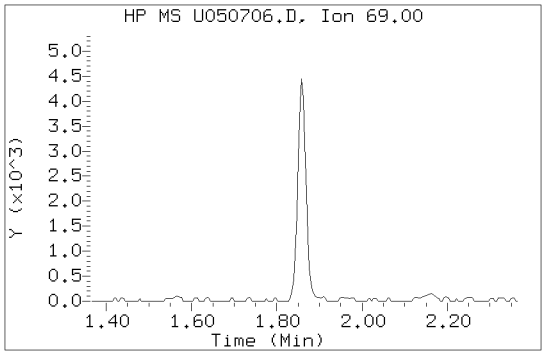

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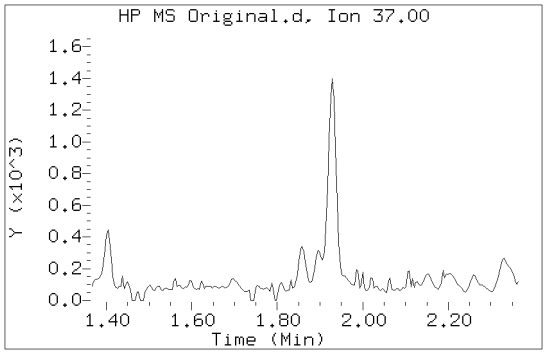

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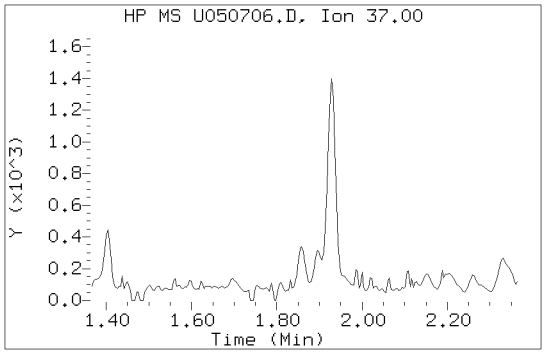

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Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

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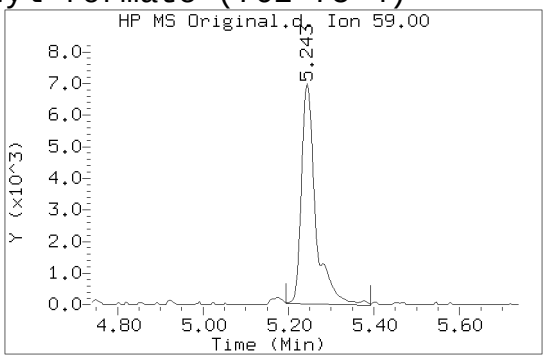

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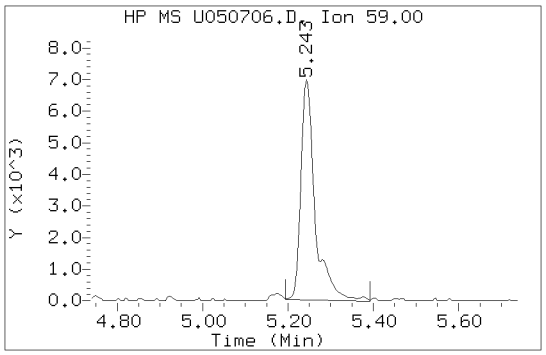

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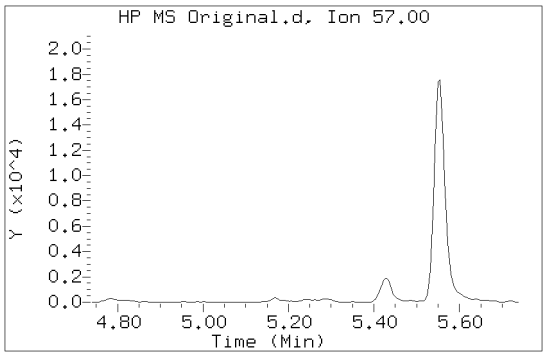

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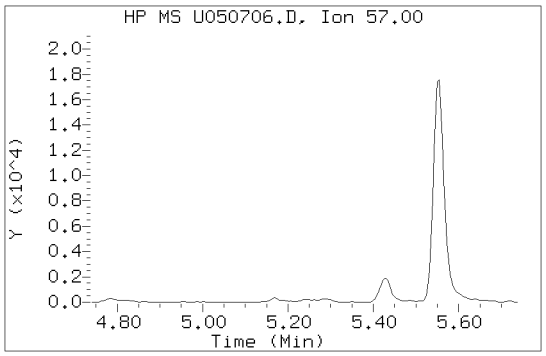

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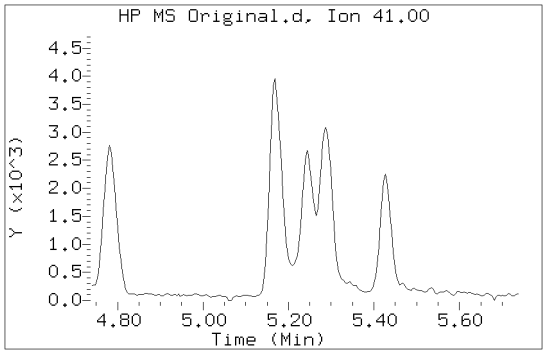

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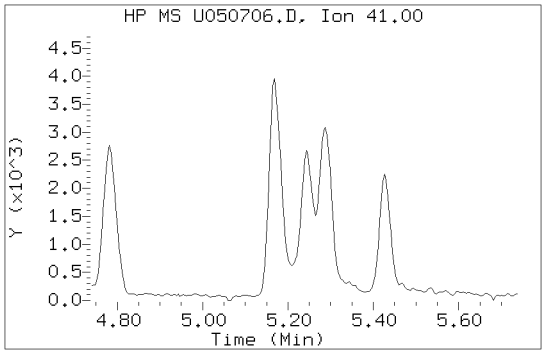

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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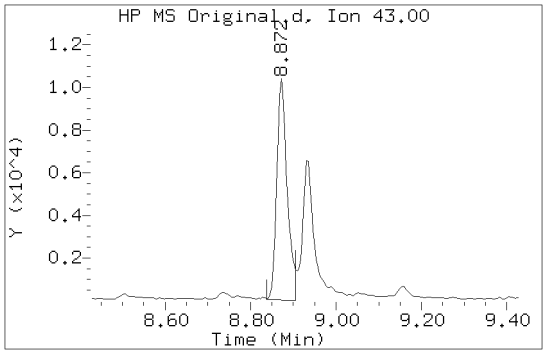

AFTER

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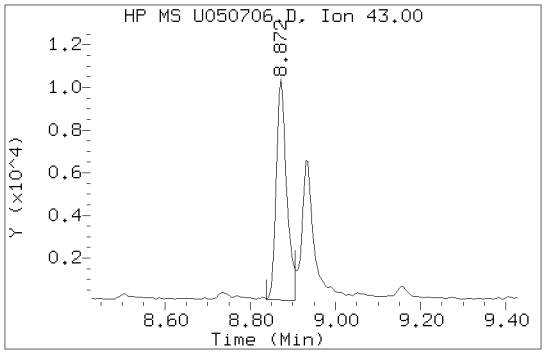

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InstruID : VOA9.i
LabSampID : VSTD005

n-Amyl acetate (628-63-7)

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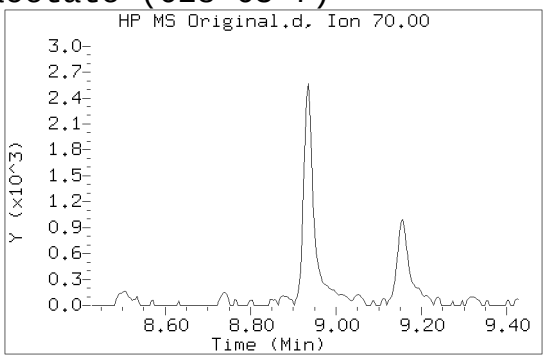

AFTER
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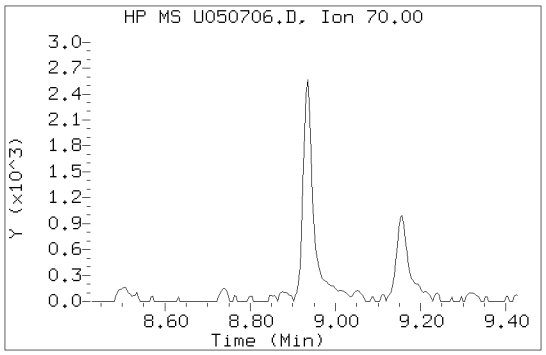

BEFORE
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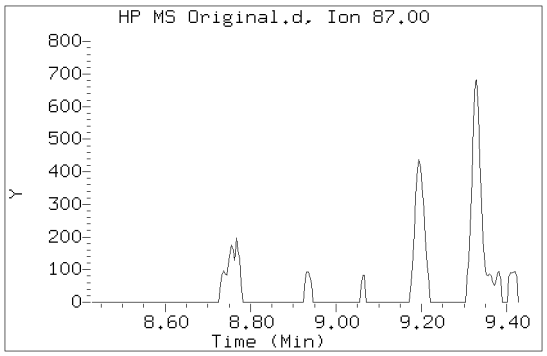

AFTER
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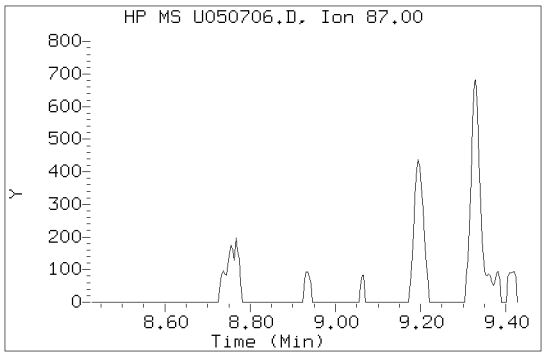

Acetaldehyde (75-07-0)

Reason Code:

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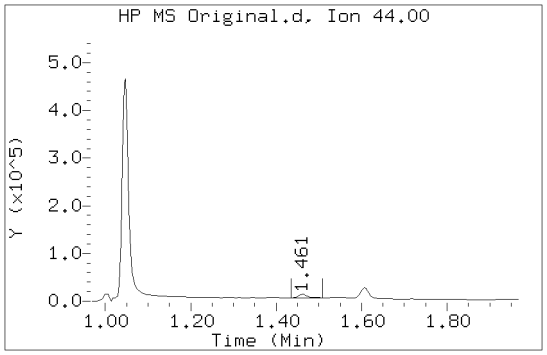
firat
tastan



AFTER
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28-May-2024
10:32
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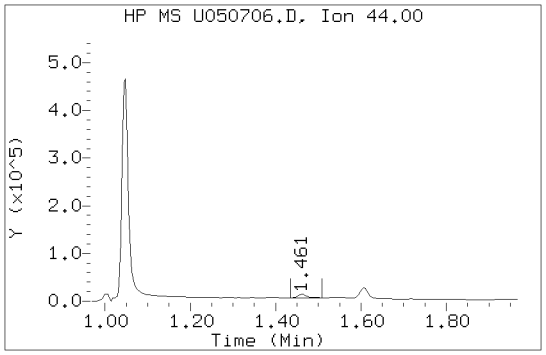

BEFORE
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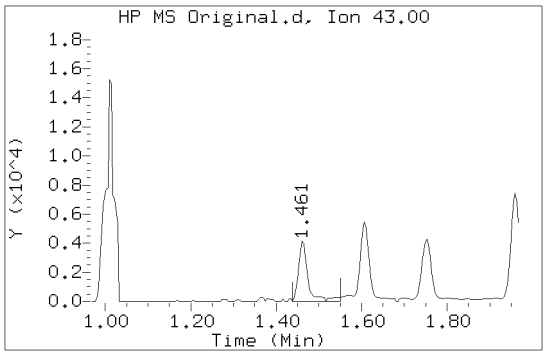

AFTER
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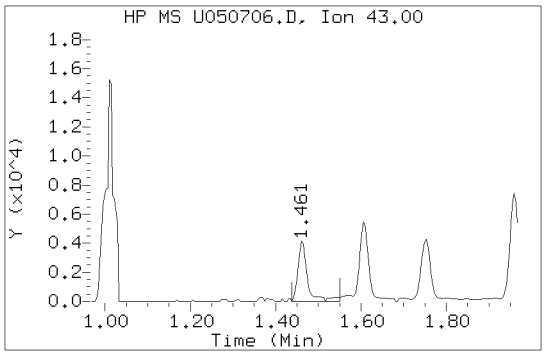

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Inj Date : 07-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

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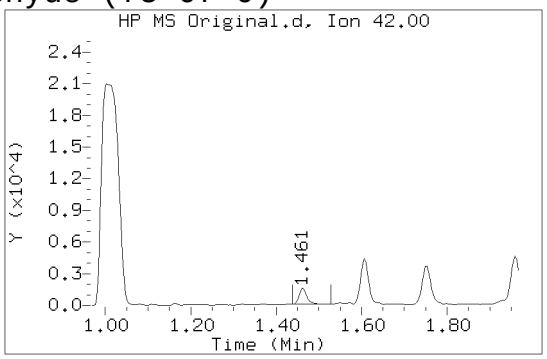

AFTER

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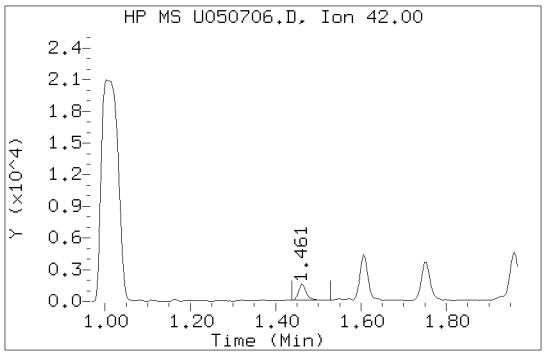

Isobutylene (115-11-7)

Reason Code:

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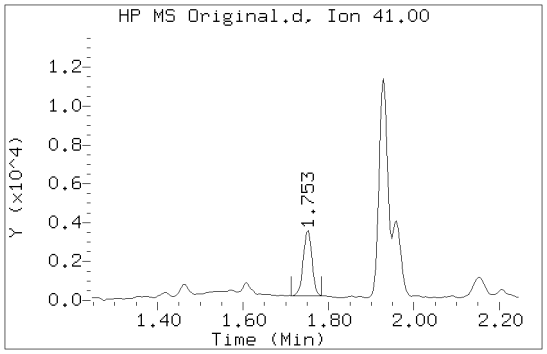

AFTER

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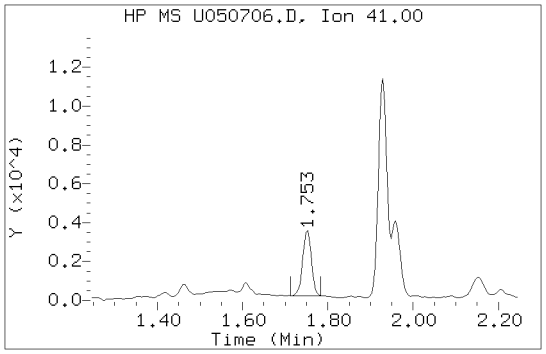

BEFORE

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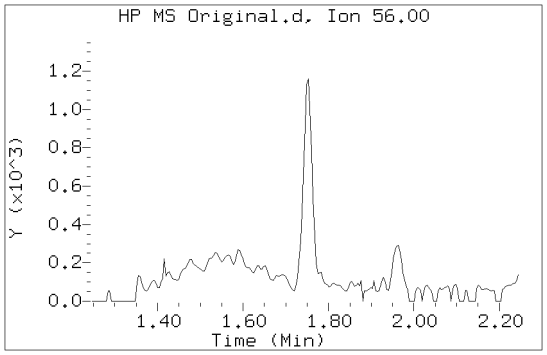

AFTER

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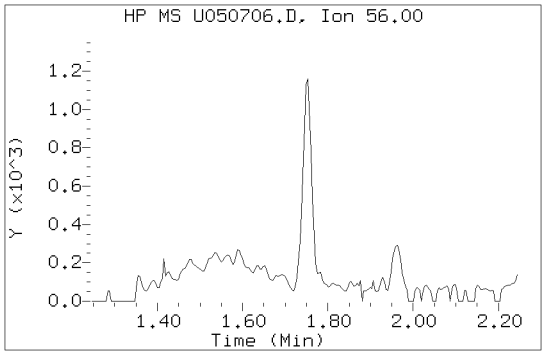

BEFORE

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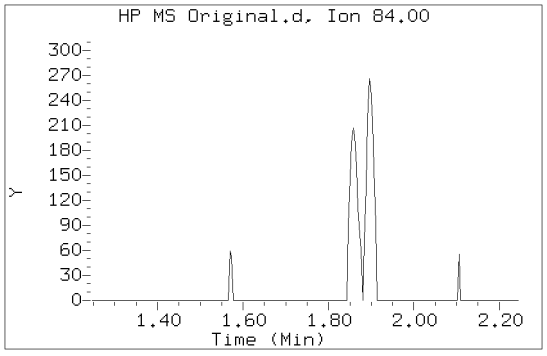

AFTER

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28-May-2024
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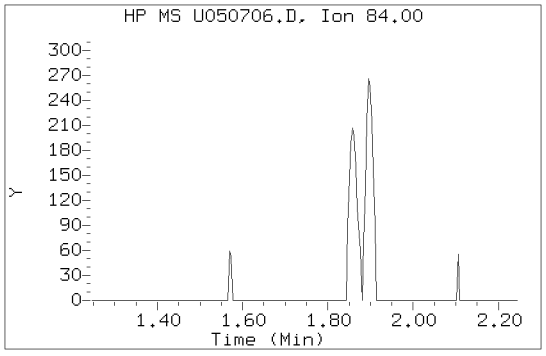

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050707.D
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Inj Date : 07-MAY-2024 13:53
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:31 Cal File: U050706.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: 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)	234792	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	28317	20.0000	20.94
3	Chloromethane	50	1.295	1.295	(0.269)	40519	20.0000	21.76
4	Propionitrile	54	4.335	4.335	(0.900)	64070	200.000	211.94(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	38946	20.0000	21.01
6	Bromomethane	94	1.610	1.610	(0.334)	22087	20.0000	22.31
7	Chloroethane	64	1.693	1.693	(0.352)	27424	20.0000	21.38
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	46111	20.0000	21.20
9	Acrolein	56	2.259	2.259	(0.469)	3583	40.0000	37.92
10	Acetone	43	2.405	2.405	(0.499)	26744	40.0000	42.33
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	25623	20.0000	20.94
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	101788	400.000	410.91(a)
13	Acetonitrile	39	2.667	2.667	(0.554)	50386	200.000	216.44(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	120218	20.0000	20.25(a)
15	Iodomethane	142	2.465	2.465	(0.512)	56119	40.0000	40.30
16	Acrylonitrile	53	3.061	3.061	(0.636)	35349	40.0000	43.96
17	Methylene Chloride	84	2.787	2.787	(0.579)	36574	20.0000	21.45
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	108581	20.0000	19.82
19	Carbon Disulfide	76	2.517	2.517	(0.523)	149014	40.0000	40.37
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	29100	20.0000	21.12

21 Vinyl Acetate	43	4.339	4.339 (0.901)	41266	40.0000	40.89
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	55860	20.0000	21.19

	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)	11443	20.0000	20.97(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	29664	40.0000	39.99
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	25619	20.0000	20.03(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	32424	20.0000	19.78
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	32759	20.0000	20.67
	28 Chloroform	83	4.568	4.568	(0.949)	53401	20.0000	19.77
	29 Bromochloromethane	128	4.467	4.467	(0.928)	16792	20.0000	21.41
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	39563	20.0000	22.26
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	39620	20.0000	20.52
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	38925	20.0000	19.63
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	45108	20.0000	20.10
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	31953	20.0000	20.21
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	50052	20.0000	23.03
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	344351	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	122880	20.0000	19.89
	38 Trichloroethene	130	5.786	5.786	(1.043)	30896	20.0000	20.97
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	34059	20.0000	19.43
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	17250	20.0000	21.07(a)
	41 2-Chloroethylvinyl ether	63	6.633	6.633	(1.195)	741	40.0000	54.79(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	32375	20.0000	20.13
	43 2-Nitropropane	43	6.506	6.506	(1.351)	8230	20.0000	17.90
	44 Dibromomethane	93	6.116	6.116	(1.102)	20084	20.0000	19.82
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	70632	40.0000	40.09
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	38616	20.0000	18.96
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	311564	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	148038	20.0000	22.54
	49 Ethyl Methacrylate	69	7.214	7.214	(1.300)	52928	20.0000	20.99(a)
	50 Toluene	91	6.978	6.978	(0.853)	130209	20.0000	21.16
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	30455	20.0000	18.57
	52 2-Hexanone	43	7.593	7.593	(0.928)	44949	40.0000	37.45
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	25563	20.0000	20.01
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	54559	20.0000	20.29
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	26478	20.0000	18.99
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	24971	20.0000	21.76
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	29624	20.0000	20.68
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	28952	20.0000	19.70
	59 Chlorobenzene	112	8.208	8.208	(1.003)	84826	20.0000	19.83
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26698	20.0000	19.91
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40912	20.0000	20.26
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	104201	40.0000	42.68
	63 o-Xylene	106	8.748	8.748	(1.069)	51418	20.0000	21.08
	64 Styrene	104	8.763	8.763	(1.071)	87930	20.0000	21.33
	66 Bromoform	173	8.916	8.916	(1.089)	15221	20.0000	18.05
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	126322	20.0000	21.54
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	44003	20.0000	21.12
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	54594	20.0000	22.38
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165887	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	40591	20.0000	19.21(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8154	20.0000	18.78(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	143405	20.0000	21.45
	74 Bromobenzene	156	9.317	9.317	(0.916)	36033	20.0000	20.01
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	103284	20.0000	21.38

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	91911	20.0000	20.33
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	106423	20.0000	20.91

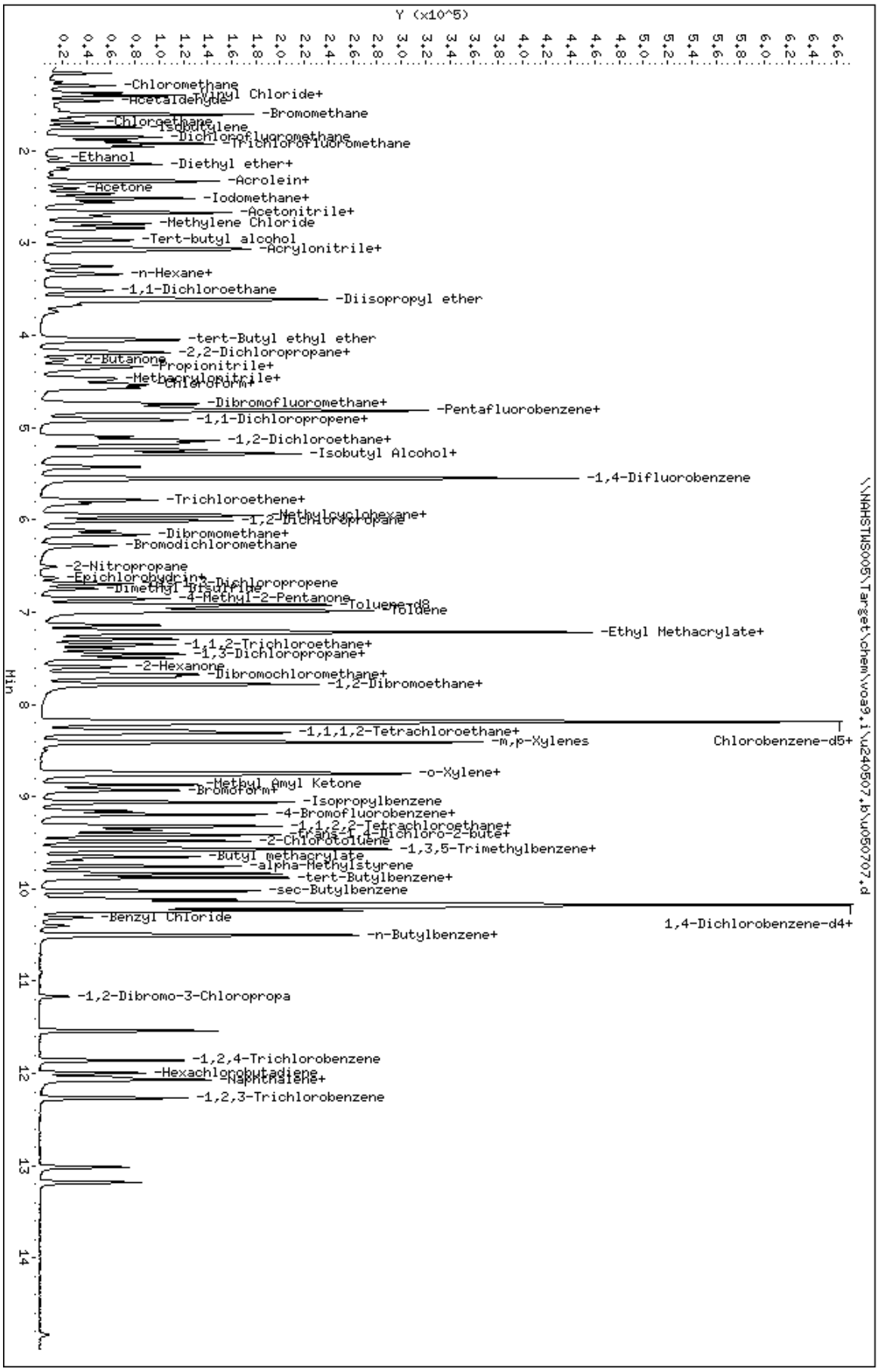
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	87524	20.0000	21.58
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.972)	103843	20.0000	21.95
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	113345	20.0000	21.21
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	101637	20.0000	21.83
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	62887	20.0000	19.97
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	65701	20.0000	20.49
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26428	20.0000	16.61
87	n-Butylbenzene	91	10.491	10.491	(1.032)	85646	20.0000	20.15
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	64478	20.0000	20.94
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	4254	20.0000	17.29
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	37095	20.0000	19.94
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	16202	20.0000	20.15
92	Naphthalene	128	12.065	12.065	(1.187)	95694	20.0000	19.00
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	37303	20.0000	19.95
146	Methyl acetate	43	2.708	2.708	(0.563)	59820	20.0000	21.71
138	Freon TF	101	2.334	2.334	(0.485)	26976	20.0000	21.59
141	Cyclohexane	56	4.781	4.781	(0.993)	45991	20.0000	19.98
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	16410	40.0000	42.37
147	Methylcyclohexane	55	5.947	5.947	(1.072)	91463	20.0000	21.48
135	1,4-Dioxane	88	6.165	6.165	(1.280)	10394	400.000	404.76
132	n-Butanol	56	5.824	5.824	(1.209)	21995	400.000	349.14(a)
136	n-Hexane	57	3.338	3.338	(0.693)	31596	20.0000	20.82
139	Diethyl ether	59	2.142	2.142	(0.445)	32066	20.0000	19.46
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	76161	400.000	422.94
149	Isopropyl alcohol	45	2.558	2.558	(0.531)	63675	400.000	425.30
152	Amyl alcohol	42	7.398	7.398	(0.904)	25462	400.000	391.09
156	Diisopropyl ether	45	3.616	3.616	(0.751)	136954	20.0000	20.62
162	Butyl acrylate	55	8.733	8.733	(1.067)	58996	20.0000	17.40
187	n-Amyl acetate	43	8.931	8.931	(1.091)	59164	20.0000	18.47
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	173400	20.0000	21.13
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	134258	20.0000	21.80
167	Ethanol	45	2.079	2.079	(0.432)	11839	400.000	418.73
172	tert-Butyl formate	59	5.239	5.239	(1.088)	63262	40.0000	37.74
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	88345	400.000	422.18
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	108804	20.0000	20.52
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	108057	20.0000	20.08
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	63345	400.000	393.14
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	230659	400.000	394.67
140	1,3-Butadiene	54	1.400	1.400	(0.291)	31766	20.0000	20.88
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	72332	20.0000	21.70
182	Epichlorohydrin	57	6.630	6.630	(1.195)	10322	80.0000	70.20
M 94	1,2-Dichloroethylene (total)	96				61859	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	47046	20.0000	19.62
130	Ethyl Acetate	43	4.339	4.339	(0.901)	41266	20.0000	20.59
131	Methyl Acrylate	55	4.369	4.369	(0.907)	49034	20.0000	20.36
189	n-Butyl acetate	43	7.705	7.705	(0.941)	51789	20.0000	18.49
134	Cyclohexanone	55	9.152	9.152	(0.900)	31021	400.000	394.36(a)
185	Isoprene	39	2.154	2.154	(0.447)	8379	20.0000	22.16
188	Isopropyl acetate	43	5.284	5.284	(0.952)	102299	20.0000	20.97
150	Allyl alcohol	57	3.338	3.338	(0.693)	31596	400.000	416.48
194	Acetaldehyde	44	1.456	1.456	(0.303)	33458	80.0000	82.00(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	76437	20.0000	19.01

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	17116	20.0000	16.99
202 Isobutylene	41	1.745	1.745 (0.362)	20583	20.0000	21.34(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	91463	20.0000	21.33
163 Butyl methacrylate	41	9.647	9.647	(0.949)	42350	20.0000	19.71
159 Propylene oxide	43	2.199	2.199	(0.457)	6759	40.0000	42.81
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	30339	20.0000	16.94

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: VSTD020
Sample Info: VSTD020;VSTD020;1;6
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\U240507.b\U050707.D
Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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07-May-2024
14:16
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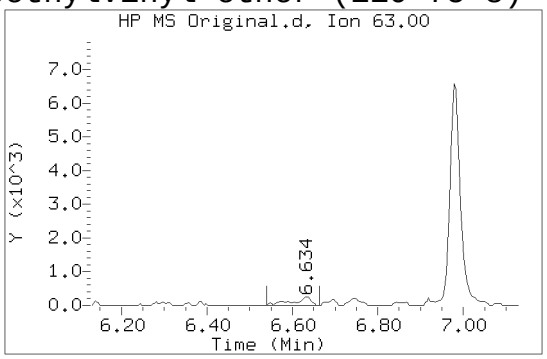

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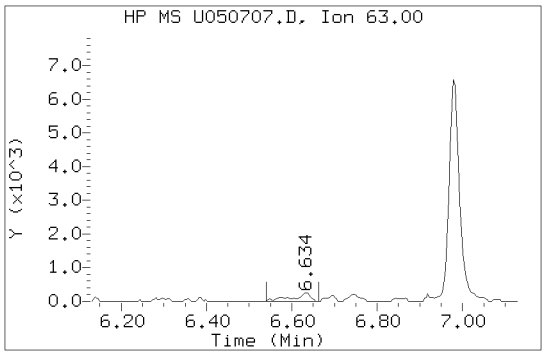

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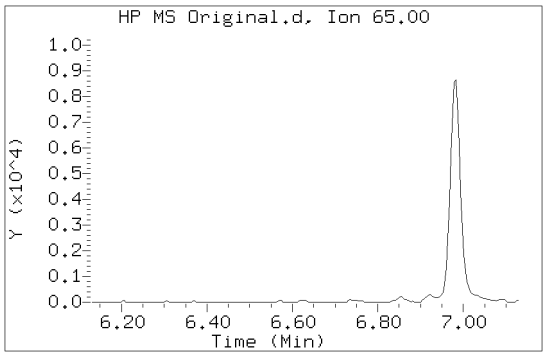

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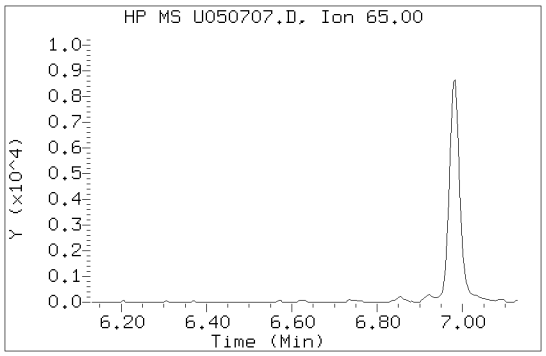

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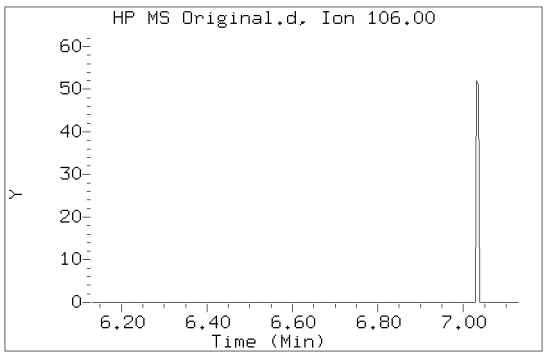

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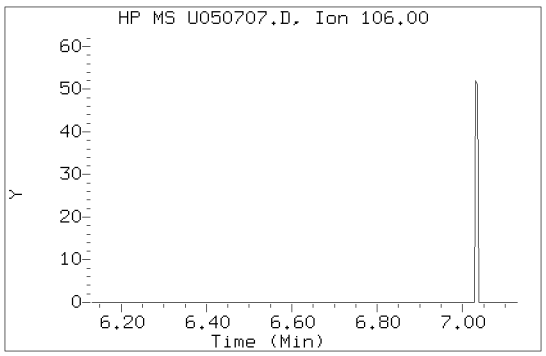

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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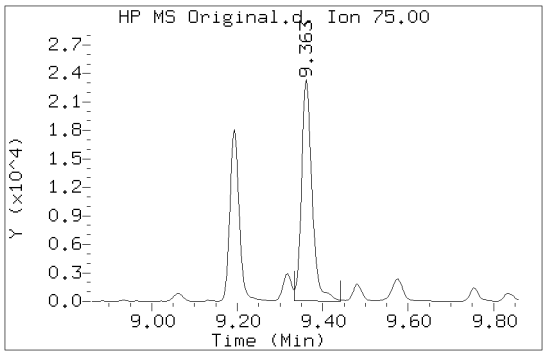

AFTER
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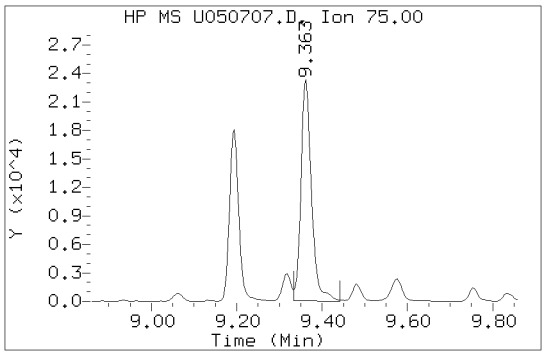

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InstruID : VOA9.i
LabSampID : VSTD020

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

Reason Code:

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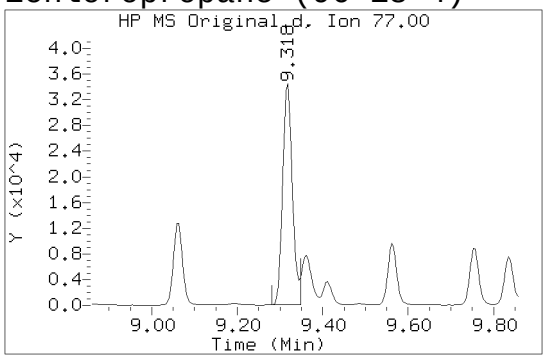

AFTER

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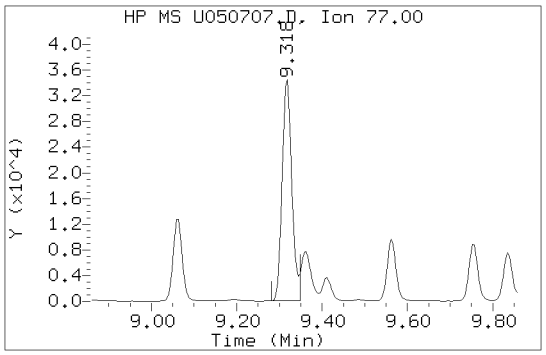

Chloroprene (126-99-8)

Reason Code:

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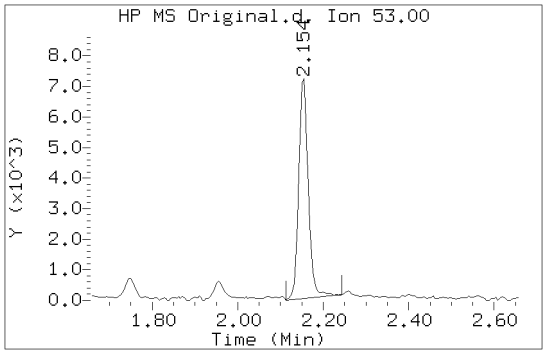

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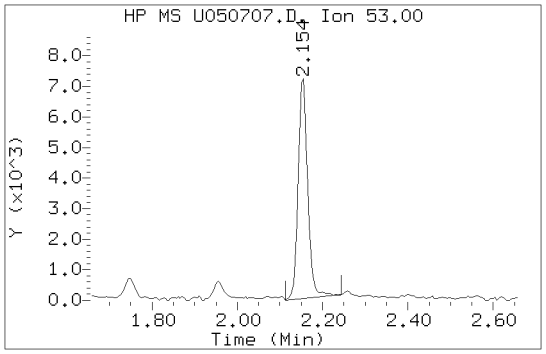

BEFORE

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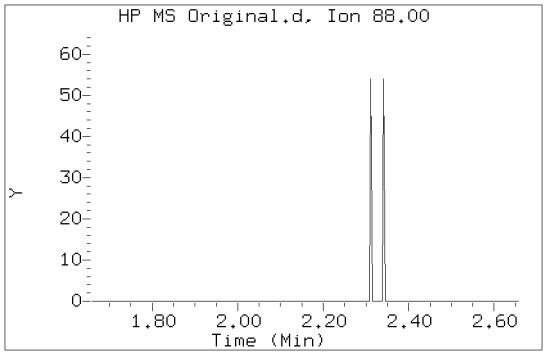

AFTER

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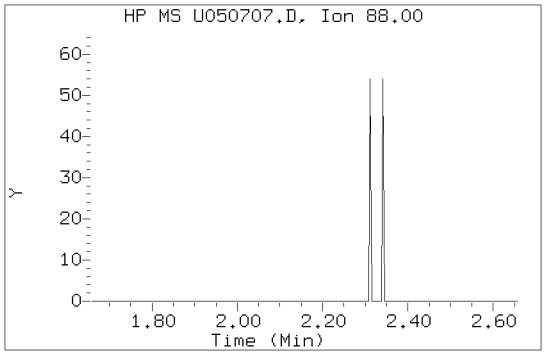

Acetaldehyde (75-07-0)

Reason Code:

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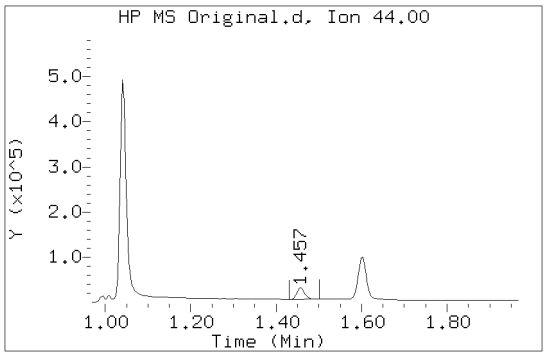

AFTER

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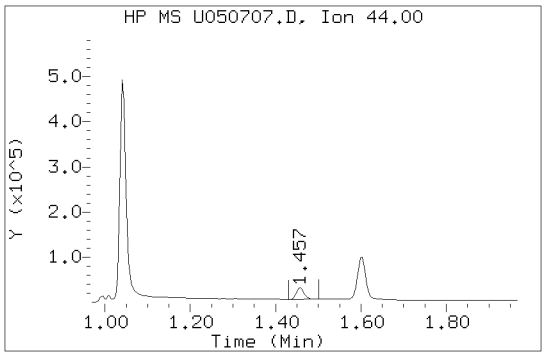

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Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

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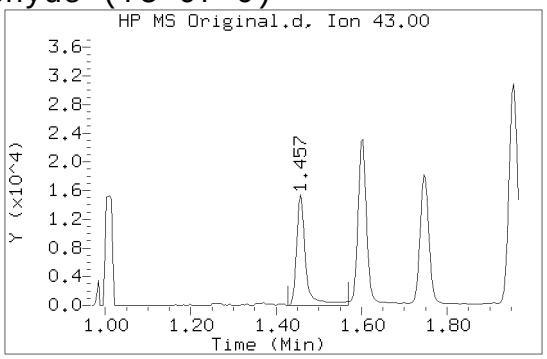

AFTER

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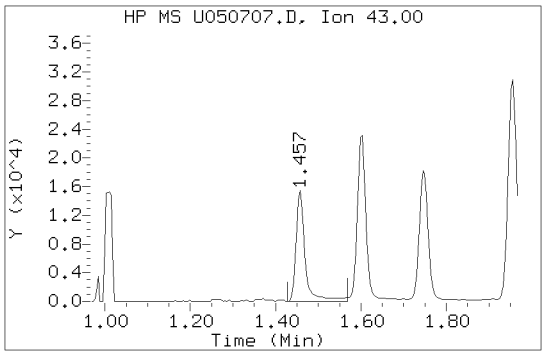

BEFORE

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07-May-2024
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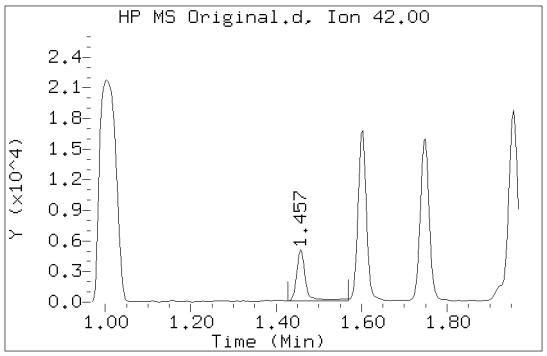

AFTER

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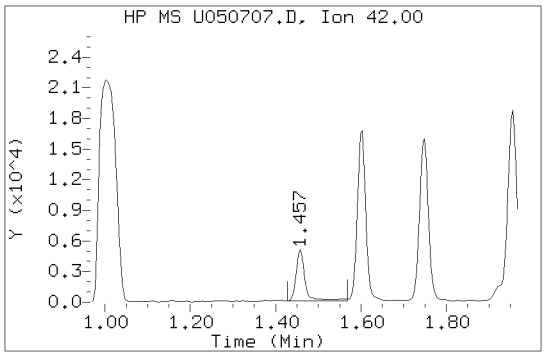

Isobutylene (115-11-7)

Reason Code:

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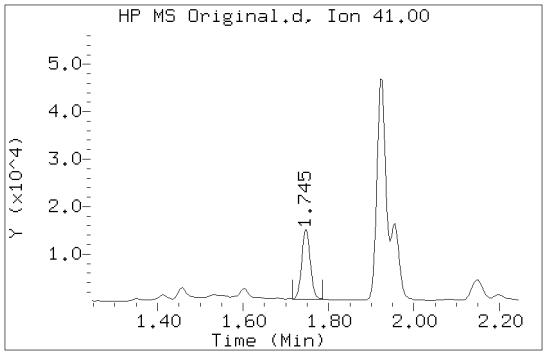

AFTER

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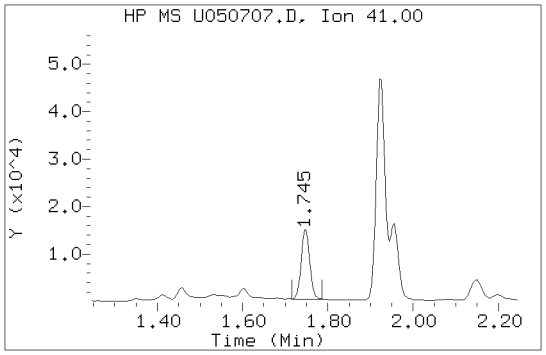

BEFORE

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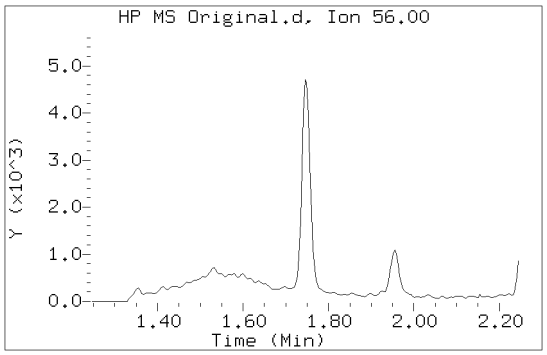

AFTER

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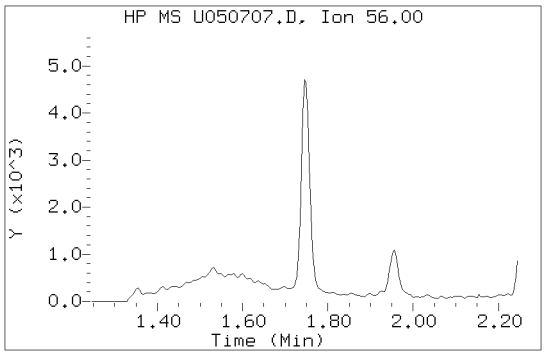

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Inj Date : 07-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

BEFORE

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07-May-2024
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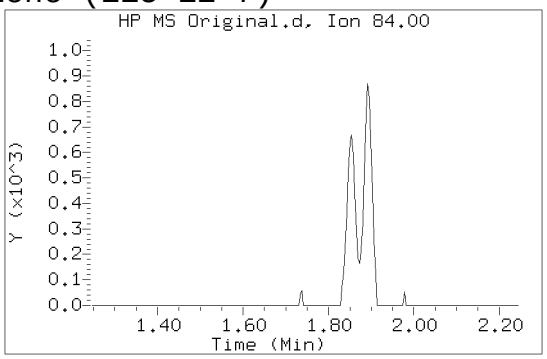
tastan



AFTER

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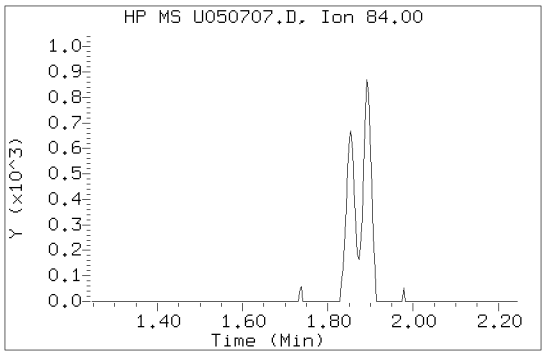

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050708.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 07-MAY-2024 14:14
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 13:53 Cal File: U050707.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: 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	4.819	4.819	(1.000)	238532	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	65682	50.0000	47.26
3	Chloromethane	50	1.303	1.303	(0.270)	93298	50.0000	50.14
4	Propionitrile	54	4.339	4.339	(0.900)	157637	500.000	535.55
5	Vinyl Chloride	62	1.381	1.381	(0.287)	91141	50.0000	48.24
6	Bromomethane	94	1.618	1.618	(0.336)	45202	50.0000	45.69
7	Chloroethane	64	1.704	1.704	(0.354)	63297	50.0000	49.28
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	107161	50.0000	48.45
9	Acrolein	56	2.270	2.270	(0.471)	9057	100.000	103.88
10	Acetone	43	2.412	2.412	(0.501)	65536	100.000	109.01
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	60885	50.0000	49.00
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	257338	1000.00	1022.57
13	Acetonitrile	39	2.678	2.678	(0.556)	121023	500.000	511.72
14	Allyl Chloride	41	2.678	2.678	(0.556)	290935	50.0000	48.23
15	Iodomethane	142	2.472	2.472	(0.513)	151810	100.000	99.99
16	Acrylonitrile	53	3.072	3.072	(0.638)	84618	100.000	109.56
17	Methylene Chloride	84	2.798	2.798	(0.581)	80341	50.0000	49.73
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	264898	50.0000	47.61
19	Carbon Disulfide	76	2.525	2.525	(0.524)	361716	100.000	96.46
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	68664	50.0000	49.29

21 Vinyl Acetate	43	4.343	4.343 (0.901)	100825	100.000	98.35
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	130203	50.0000	48.99

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.165	2.165	(0.449)	27342	50.0000	50.00(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	74338	100.000	98.65
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	67748	50.0000	52.15(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	81912	50.0000	47.90
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	77684	50.0000	48.25
	28 Chloroform	83	4.575	4.575	(0.949)	126876	50.0000	46.25
	29 Bromochloromethane	128	4.474	4.474	(0.928)	39351	50.0000	50.39
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	90004	50.0000	52.52
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	96827	50.0000	49.36
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	91581	50.0000	45.41
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	105854	50.0000	46.38
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	78443	50.0000	47.58
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	111558	50.0000	54.36
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	350305	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	292812	50.0000	46.61
	38 Trichloroethene	130	5.790	5.790	(1.043)	72534	50.0000	48.20
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	88029	50.0000	49.37
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	45308	50.0000	54.48
	41 2-Chloroethylvinyl ether	63	6.626	6.626	(1.193)	1272	100.000	91.79(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	79295	50.0000	48.25
	43 2-Nitropropane	43	6.510	6.510	(1.351)	22643	50.0000	48.47
	44 Dibromomethane	93	6.120	6.120	(1.102)	48527	50.0000	47.08
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	184903	100.000	101.33
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	104989	50.0000	48.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	322713	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	338905	50.0000	51.93
	49 Ethyl Methacrylate	69	7.214	7.214	(1.299)	124790	50.0000	48.67
	50 Toluene	91	6.982	6.982	(0.853)	311225	50.0000	48.83
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84736	50.0000	47.52
	52 2-Hexanone	43	7.593	7.593	(0.928)	125048	100.000	94.62
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	60937	50.0000	46.05
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	132165	50.0000	47.45
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	71514	50.0000	45.59
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	57805	50.0000	48.34
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	72656	50.0000	48.97
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	68237	50.0000	47.20
	59 Chlorobenzene	112	8.208	8.208	(1.003)	199604	50.0000	45.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	67841	50.0000	46.01
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102266	50.0000	48.89
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	254622	100.000	100.69
	63 o-Xylene	106	8.748	8.748	(1.069)	127726	50.0000	50.57
	64 Styrene	104	8.763	8.763	(1.071)	222919	50.0000	52.22
	66 Bromoform	173	8.920	8.920	(1.090)	44718	50.0000	47.21
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	310584	50.0000	51.13
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	106801	50.0000	47.59
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	126399	50.0000	52.32
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176759	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	105365	50.0000	46.80
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	22286	50.0000	47.31
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	362536	50.0000	50.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	88057	50.0000	45.89
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	259682	50.0000	50.45

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	223680	50.0000	46.43
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	262351	50.0000	48.38

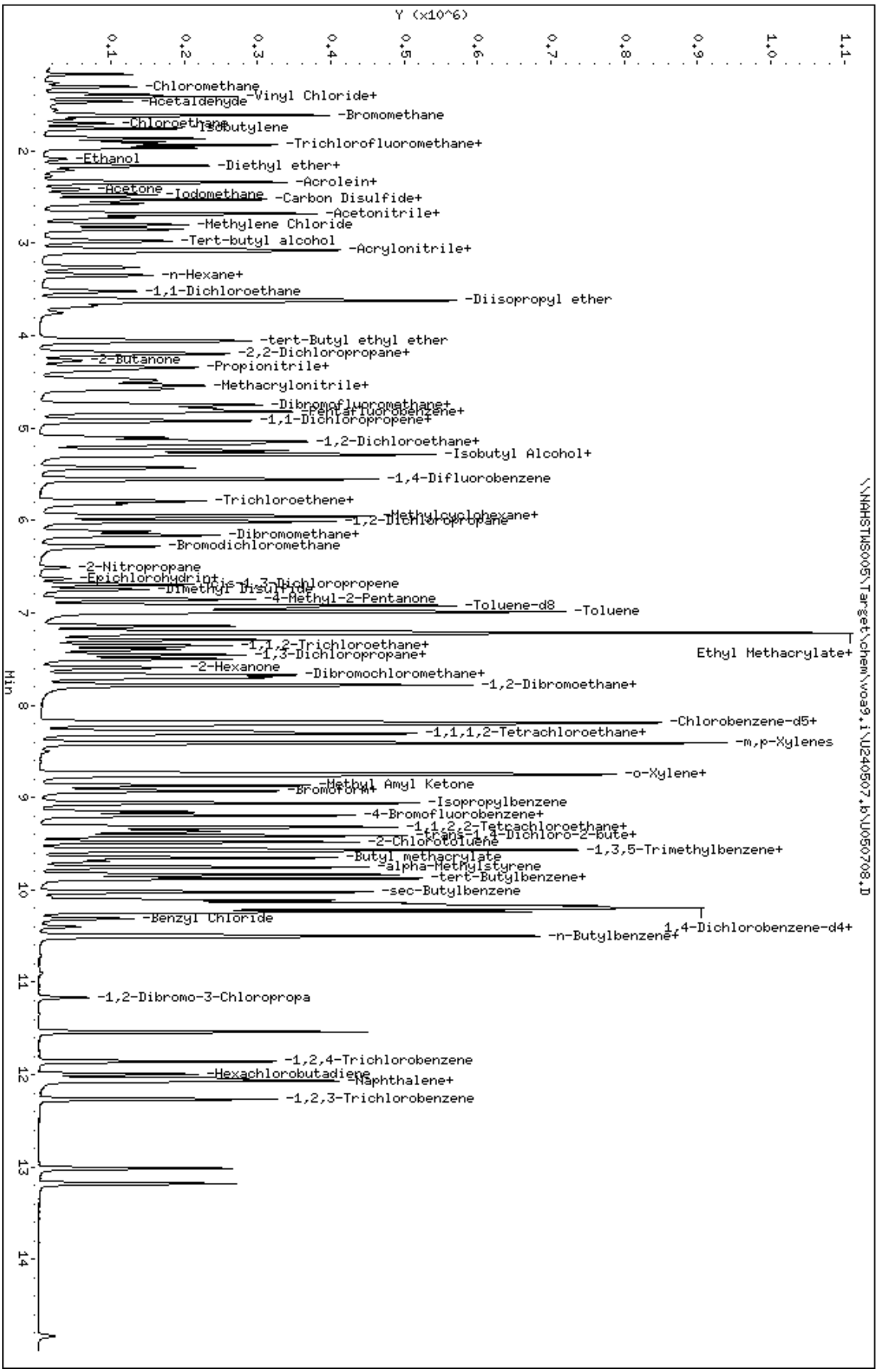
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	219120	50.0000	50.71
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	261666	50.0000	51.93
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	288116	50.0000	50.60
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	262120	50.0000	52.86
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	155219	50.0000	46.26
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	163595	50.0000	47.30
86	Benzyl Chloride	91	10.311	10.311	(1.260)	79658	50.0000	41.45
87	n-Butylbenzene	91	10.491	10.491	(1.032)	221359	50.0000	47.33
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	158544	50.0000	47.82
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	13266	50.0000	45.85
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	97480	50.0000	47.34
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	40317	50.0000	47.06
92	Naphthalene	128	12.065	12.065	(1.187)	265609	50.0000	46.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	95705	50.0000	48.05
146	Methyl acetate	43	2.720	2.720	(0.564)	138501	50.0000	51.83
138	Freon TF	101	2.341	2.341	(0.486)	61783	50.0000	48.68
141	Cyclohexane	56	4.785	4.785	(0.993)	105816	50.0000	45.57
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	40651	100.000	108.19
147	Methylcyclohexane	55	5.947	5.947	(1.071)	242533	50.0000	55.99
135	1,4-Dioxane	88	6.168	6.168	(1.280)	27674	1000.00	1084.45
132	n-Butanol	56	5.824	5.824	(1.208)	62763	1000.00	980.67
136	n-Hexane	57	3.346	3.346	(0.694)	75823	50.0000	48.85
139	Diethyl ether	59	2.150	2.150	(0.446)	80813	50.0000	48.28
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	186489	1000.00	1058.47
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	155054	1000.00	1064.13
152	Amyl alcohol	42	7.398	7.398	(0.904)	69820	1000.00	1007.04
156	Diisopropyl ether	45	3.627	3.627	(0.753)	333246	50.0000	49.39
162	Butyl acrylate	55	8.733	8.733	(1.067)	183116	50.0000	48.10
187	n-Amyl acetate	43	8.931	8.931	(1.091)	146554	50.0000	44.18
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	433675	50.0000	49.70
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	341282	50.0000	52.02
167	Ethanol	45	2.090	2.090	(0.434)	29675	1000.00	1093.34
172	tert-Butyl formate	59	5.243	5.243	(1.088)	162532	100.000	95.46
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	216329	1000.00	977.08
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	277814	50.0000	51.59
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	271744	50.0000	49.71
176	tert-Amyl alcohol	59	5.243	5.243	(1.088)	162532	1000.00	992.92
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	599037	1000.00	953.50
140	1,3-Butadiene	54	1.408	1.408	(0.292)	73101	50.0000	47.30
158	Dichlorofluoromethane	67	1.861	1.861	(0.386)	168487	50.0000	49.76
182	Epichlorohydrin	57	6.630	6.630	(1.194)	28933	200.000	193.43
M 94	1,2-Dichloroethylene (total)	96				146348	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	123916	50.0000	45.49
130	Ethyl Acetate	43	4.343	4.343	(0.901)	100825	50.0000	49.53
131	Methyl Acrylate	55	4.373	4.373	(0.907)	124639	50.0000	52.26
189	n-Butyl acetate	43	7.705	7.705	(0.941)	144160	50.0000	44.71
134	Cyclohexanone	55	9.152	9.152	(0.900)	83410	1000.00	998.47
185	Isoprene	39	2.165	2.165	(0.449)	19643	50.0000	51.14
188	Isopropyl acetate	43	5.288	5.288	(0.952)	257338	50.0000	51.86
150	Allyl alcohol	57	3.346	3.346	(0.694)	75823	1000.00	977.14
194	Acetaldehyde	44	1.468	1.468	(0.305)	85820	200.000	223.88(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	211223	50.0000	46.74

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	54839	50.0000	45.97
202 Isobutylene	41	1.756	1.756 (0.365)	49587	50.0000	51.04(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	(1.234)	242533	50.0000	55.69
163 Butyl methacrylate	41	9.647	9.647	(0.949)	106004	50.0000	46.31
159 Propylene oxide	43	2.206	2.206	(0.458)	15232	100.000	94.96
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	101193	50.0000	47.98

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: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

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

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Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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07-May-2024
16:08
firat
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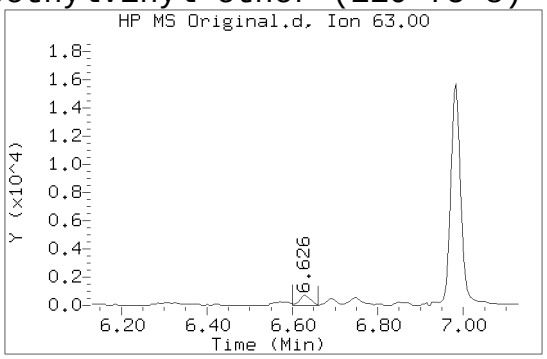

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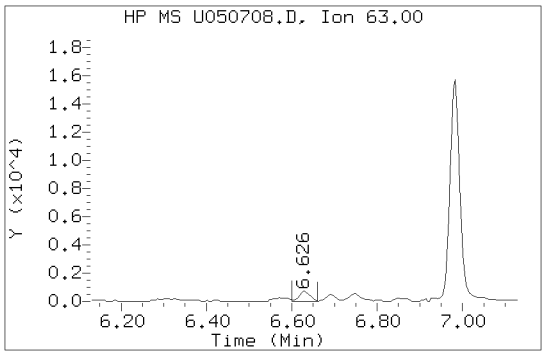

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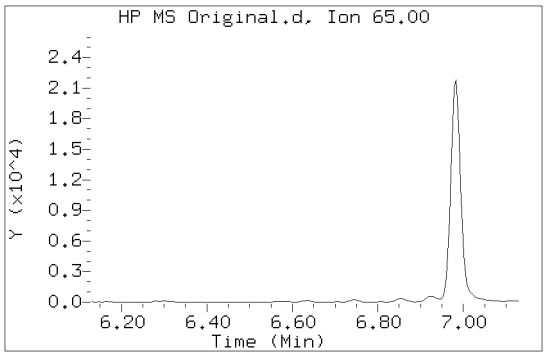

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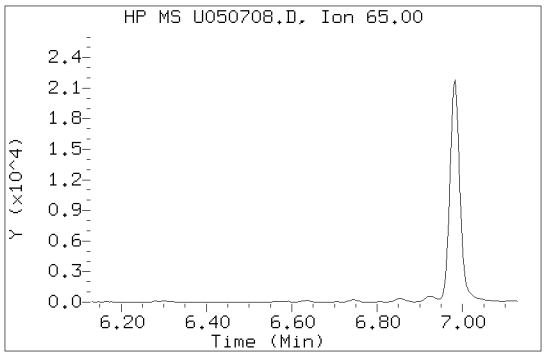

BEFORE

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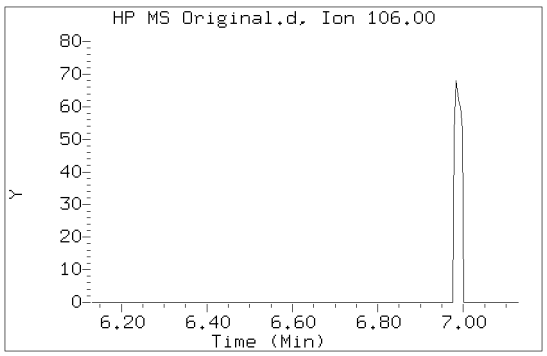

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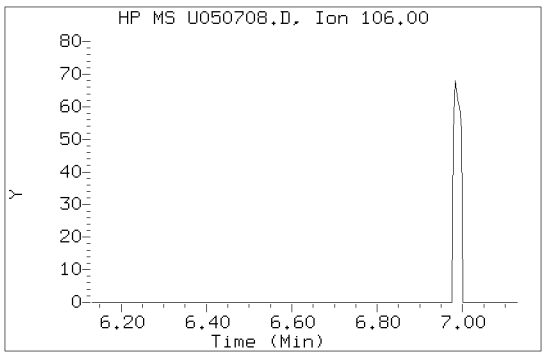

Chloroprene (126-99-8)

Reason Code:

BEFORE

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07-May-2024
16:08
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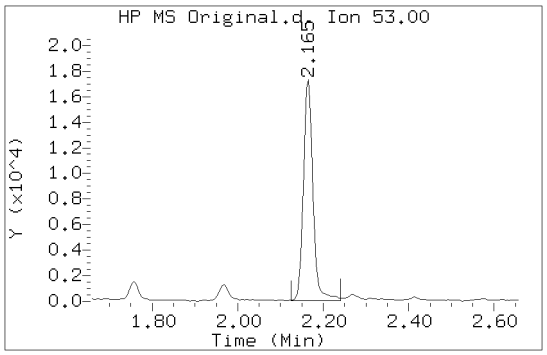
tastan



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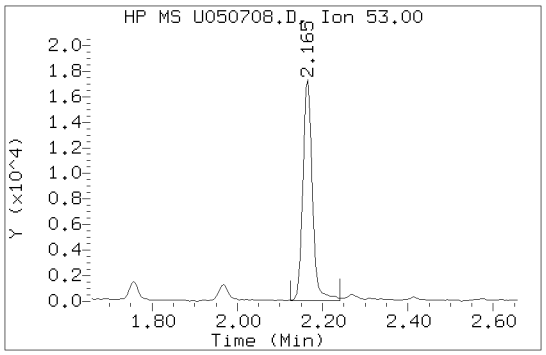

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Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

BEFORE

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07-May-2024
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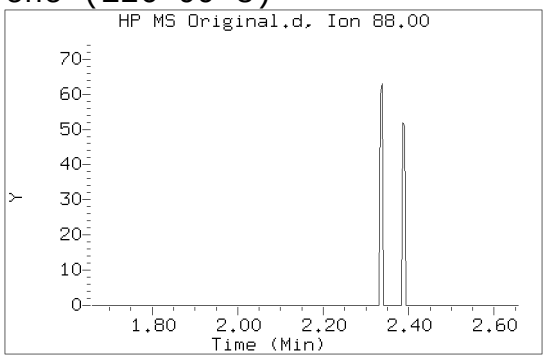

AFTER

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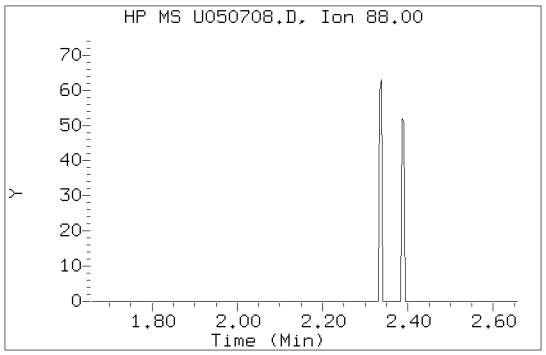

Acetaldehyde (75-07-0)

Reason Code:

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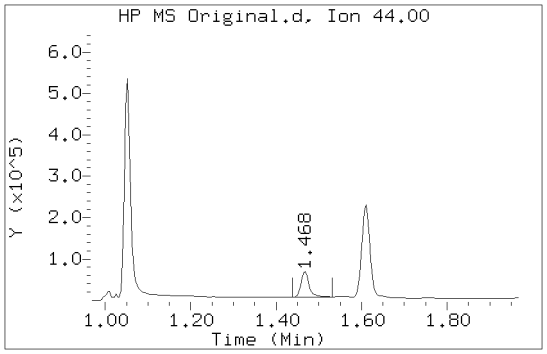

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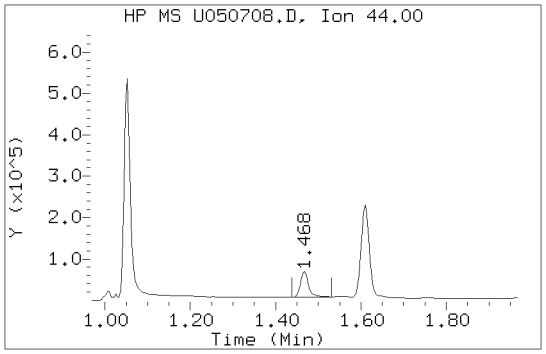

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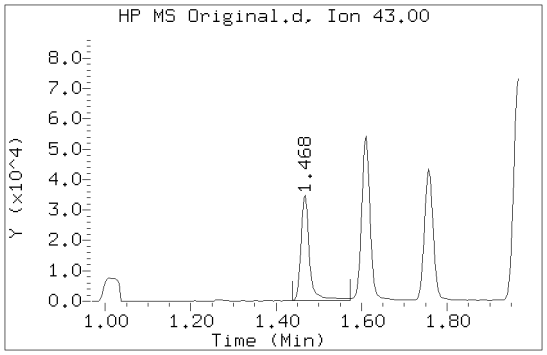

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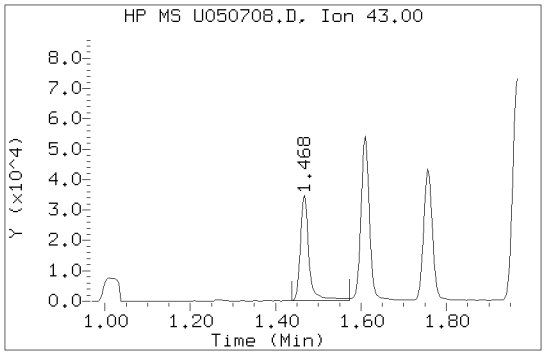

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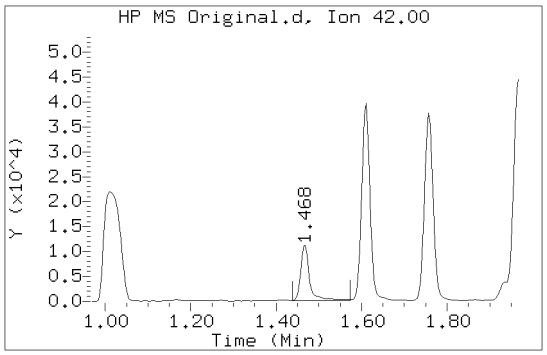

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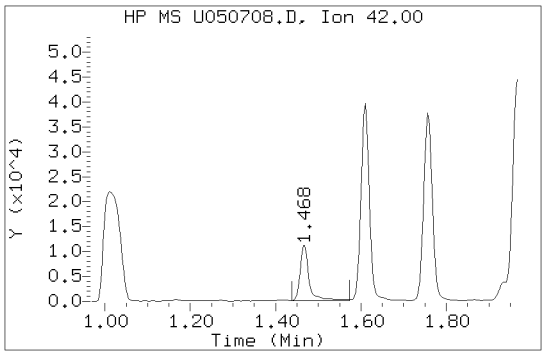

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Inj Date : 07-MAY-2024 14:14
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

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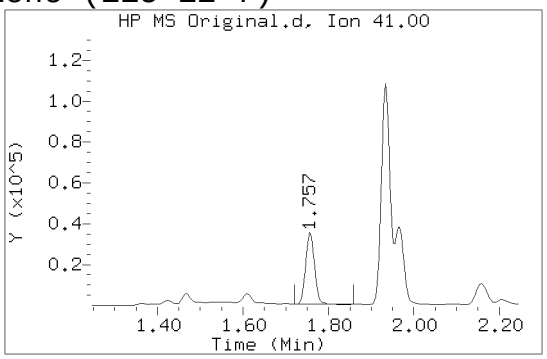

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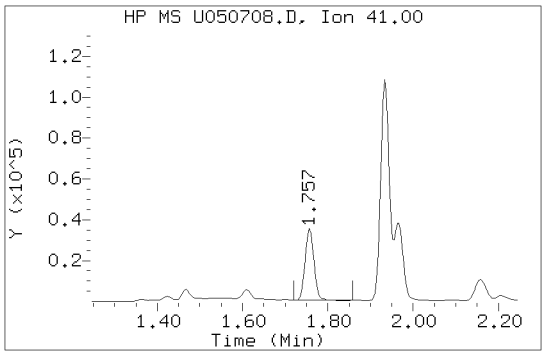

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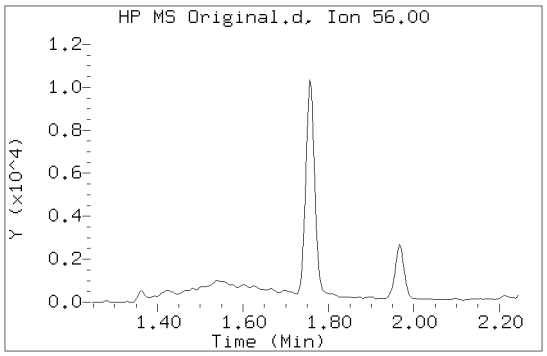

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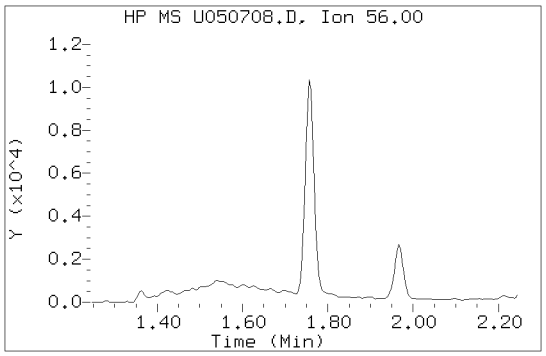

BEFORE
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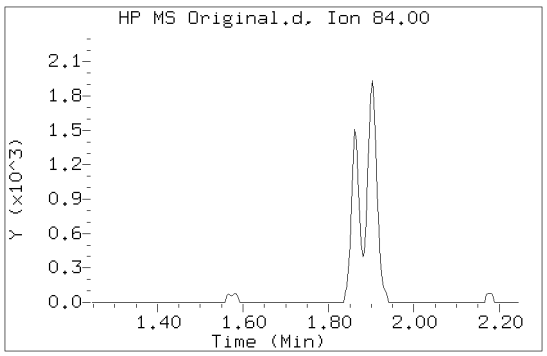

AFTER
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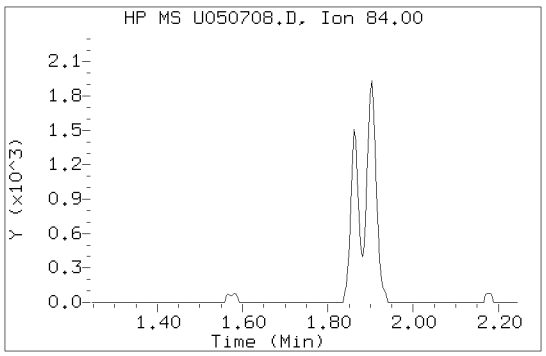

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
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Inj Date : 07-MAY-2024 14:36
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 14:14 Cal File: U050708.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: 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	4.823	4.823	(1.000)	245508	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.172	(0.243)	149041	100.000	102.17
3 Chloromethane	50	1.307	1.307	(0.271)	196655	100.000	101.81
4 Propionitrile	54	4.343	4.343	(0.901)	301666	1000.00	1009.21
5 Vinyl Chloride	62	1.385	1.385	(0.287)	200761	100.000	101.97
6 Bromomethane	94	1.618	1.618	(0.335)	98641	100.000	97.71
7 Chloroethane	64	1.704	1.704	(0.353)	134406	100.000	101.81
8 Trichlorofluoromethane	101	1.906	1.906	(0.395)	235146	100.000	102.39
9 Acrolein	56	2.274	2.274	(0.472)	17146	200.000	196.44
10 Acetone	43	2.420	2.420	(0.502)	125678	200.000	207.33
11 1,1-Dichloroethene	96	2.341	2.341	(0.485)	132959	100.000	102.29
12 Isobutyl Alcohol	43	5.288	5.288	(1.096)	529605	2000.00	2044.68
13 Acetonitrile	39	2.682	2.682	(0.556)	230240	1000.00	945.86
14 Allyl Chloride	41	2.682	2.682	(0.556)	551987	100.000	88.92
15 Iodomethane	142	2.476	2.476	(0.513)	352010	200.000	199.99
16 Acrylonitrile	53	3.072	3.072	(0.637)	157855	200.000	202.17
17 Methylene Chloride	84	2.802	2.802	(0.581)	164577	100.000	101.83
18 Methyl tert-butyl ether	73	3.091	3.091	(0.641)	500093	100.000	87.33
19 Carbon Disulfide	76	2.529	2.529	(0.524)	814612	200.000	211.07
20 trans-1,2-Dichloroethene	96	3.068	3.068	(0.636)	146972	100.000	101.76

21 Vinyl Acetate	43	4.347	4.347 (0.901)	210044	200.000	199.08
22 1,1-Dichloroethane	63	3.522	3.522 (0.730)	276401	100.000	101.35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	2.169	2.169	(0.450)	57857	100.000	101.40(M)
	24 2-Butanone	43	4.272	4.272	(0.886)	159228	200.000	205.30
	25 Methacrylonitrile	41	4.500	4.500	(0.933)	129941	100.000	97.19(a)
	26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	187920	100.000	102.89
	27 cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	170041	100.000	101.99
	28 Chloroform	83	4.579	4.579	(0.949)	274052	100.000	97.07
	29 Bromochloromethane	128	4.474	4.474	(0.928)	81205	100.000	101.80
$	30 Dibromofluoromethane	113	4.755	4.755	(0.986)	178142	100.000	102.98
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.984)	221127	100.000	109.52
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	206673	100.000	99.98
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	219856	100.000	93.99
	34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	180664	100.000	102.81
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	214226	100.000	104.20
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	359038	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	639980	100.000	99.40
	38 Trichloroethene	130	5.790	5.790	(1.042)	160120	100.000	102.17
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	198174	100.000	108.44
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	90886	100.000	106.17
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.193)	2754	200.000	192.56(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	171157	100.000	101.46
	43 2-Nitropropane	43	6.510	6.510	(1.350)	49792	100.000	103.57
	44 Dibromomethane	93	6.120	6.120	(1.101)	102213	100.000	96.75
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	399886	200.000	213.84
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	241726	100.000	102.54
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330734	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	665665	100.000	101.14
	49 Ethyl Methacrylate	69	7.218	7.218	(1.299)	246982	100.000	93.98
	50 Toluene	91	6.982	6.982	(0.853)	669231	100.000	102.46
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.295)	199280	100.000	102.76
	52 2-Hexanone	43	7.593	7.593	(0.928)	273104	200.000	197.63
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	127563	100.000	94.07
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	278398	100.000	97.53
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	161616	100.000	97.57
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	127780	100.000	101.99
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	155238	100.000	102.10
	58 1-Chlorohexane	55	8.197	8.197	(1.475)	153320	100.000	102.42
	59 Chlorobenzene	112	8.208	8.208	(1.003)	432836	100.000	95.34
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	150982	100.000	97.64
	61 Ethylbenzene	106	8.305	8.305	(1.015)	219911	100.000	102.59
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	558544	200.000	215.52
	63 o-Xylene	106	8.748	8.748	(1.069)	275936	100.000	106.60
	64 Styrene	104	8.763	8.763	(1.071)	486610	100.000	111.24
	66 Bromoform	173	8.916	8.916	(1.089)	106736	100.000	101.95
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	688605	100.000	110.63
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	225467	100.000	98.69
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	244719	100.000	100.50
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	179151	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	232159	100.000	101.74
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	51903	100.000	100.56
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	768880	100.000	106.53
	74 Bromobenzene	156	9.317	9.317	(0.916)	188439	100.000	96.91
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	566891	100.000	108.67

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	485401	100.000	99.41
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	561789	100.000	102.22

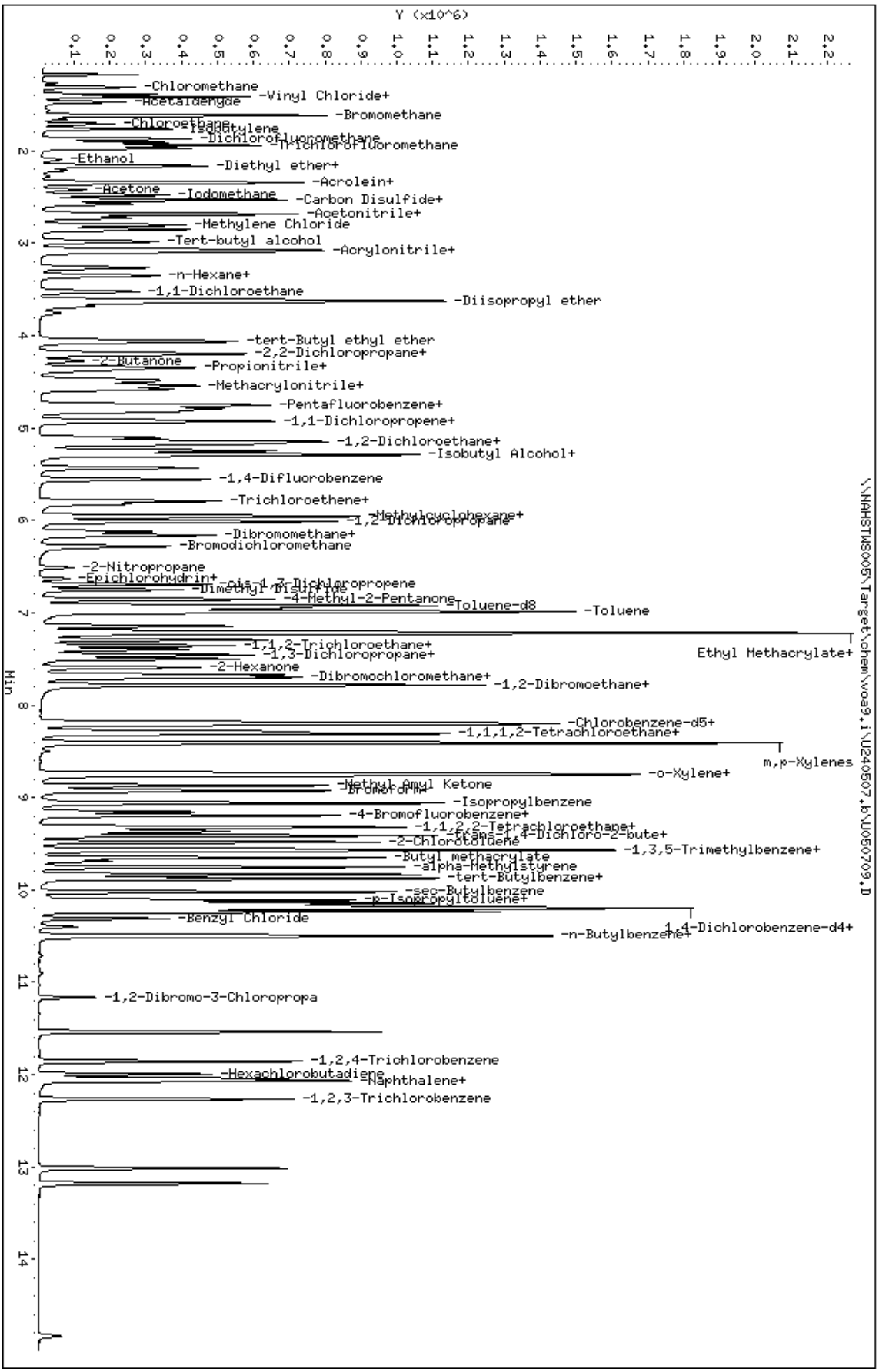
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	473702	100.000	108.17
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	567930	100.000	111.20
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	635250	100.000	110.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	576313	100.000	114.67
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	335751	100.000	98.73
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	350380	100.000	99.45
86	Benzyl Chloride	91	10.311	10.311	(1.260)	227226	100.000	100.71
87	n-Butylbenzene	91	10.491	10.491	(1.032)	499478	100.000	101.70
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	333550	100.000	98.86
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	32022	100.000	101.44
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	219402	100.000	100.81
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	90320	100.000	104.03
92	Naphthalene	128	12.065	12.065	(1.187)	586659	100.000	97.76
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	214492	100.000	106.25
146	Methyl acetate	43	2.724	2.724	(0.565)	280480	100.000	103.76
138	Freon TF	101	2.345	2.345	(0.486)	136602	100.000	104.57
141	Cyclohexane	56	4.789	4.789	(0.993)	236338	100.000	99.18
142	Tetrahydrofuran	42	4.545	4.545	(0.942)	76388	200.000	200.31
147	Methylcyclohexane	55	5.947	5.947	(1.070)	489133	100.000	110.17(A)
135	1,4-Dioxane	88	6.169	6.169	(1.279)	51178	2000.00	1960.15
132	n-Butanol	56	5.824	5.824	(1.208)	127342	2000.00	1933.18
136	n-Hexane	57	3.350	3.350	(0.695)	168177	100.000	103.18
139	Diethyl ether	59	2.157	2.157	(0.447)	148232	100.000	86.04
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	354421	2000.00	1977.92
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	300487	2000.00	2031.89
152	Amyl alcohol	42	7.394	7.394	(0.903)	146565	2000.00	1989.28
156	Diisopropyl ether	45	3.631	3.631	(0.753)	623679	100.000	89.80
162	Butyl acrylate	55	8.733	8.733	(1.067)	416154	100.000	99.79
187	n-Amyl acetate	43	8.931	8.931	(1.091)	343073	100.000	100.91
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	859217	100.000	97.23
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	645467	100.000	97.08
167	Ethanol	45	2.094	2.094	(0.434)	55066	2000.00	2004.16
172	tert-Butyl formate	59	5.246	5.246	(1.088)	296784	200.000	169.36
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	428323	2000.00	1873.32
174	tert-Amyl methyl ether	73	5.291	5.291	(1.097)	543230	100.000	98.01
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.841)	533285	100.000	94.78
176	tert-Amyl alcohol	59	5.246	5.246	(1.088)	296784	2000.00	1761.56
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.299)	1257802	2000.00	1916.86
140	1,3-Butadiene	54	1.415	1.415	(0.294)	160749	100.000	101.06
158	Dichlorofluoromethane	67	1.865	1.865	(0.387)	323734	100.000	92.90
182	Epichlorohydrin	57	6.630	6.630	(1.193)	59567	400.000	388.55
M 94	1,2-Dichloroethylene (total)	96				317013	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	275408	100.000	97.31
130	Ethyl Acetate	43	4.347	4.347	(0.901)	210044	100.000	100.25
131	Methyl Acrylate	55	4.373	4.373	(0.907)	242950	100.000	99.76
189	n-Butyl acetate	43	7.706	7.706	(0.941)	330461	100.000	96.36
134	Cyclohexanone	55	9.153	9.153	(0.900)	167333	2000.00	1978.47
185	Isoprene	39	2.169	2.169	(0.450)	41870	100.000	105.92
188	Isopropyl acetate	43	5.288	5.288	(0.951)	523426	100.000	102.92
150	Allyl alcohol	57	3.350	3.350	(0.695)	168177	2000.00	2063.71
194	Acetaldehyde	44	1.471	1.471	(0.305)	160542	400.000	415.94(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	445917	100.000	93.76

200 Dimethyl Disulfide	94	6.750	6.750 (0.825)	150878	100.000	103.08
202 Isobutylene	41	1.760	1.760 (0.365)	100002	100.000	100.31(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.233)	489133	100.000	109.13
163 Butyl methacrylate	41	9.647	9.647	(0.949)	243338	100.000	104.89
159 Propylene oxide	43	2.210	2.210	(0.458)	27651	200.000	167.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	227102	100.000	99.46

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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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050709.D
Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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MASS
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HEIGHT
1423
07-May-2024
16:09
firat
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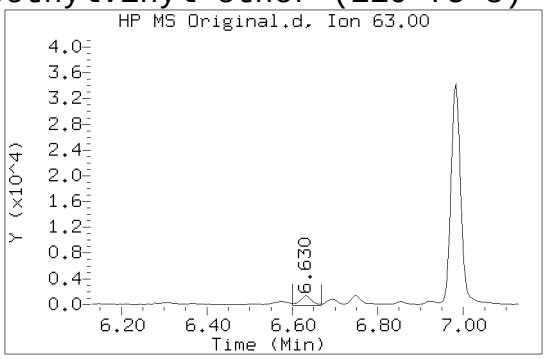

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28-May-2024
10:32
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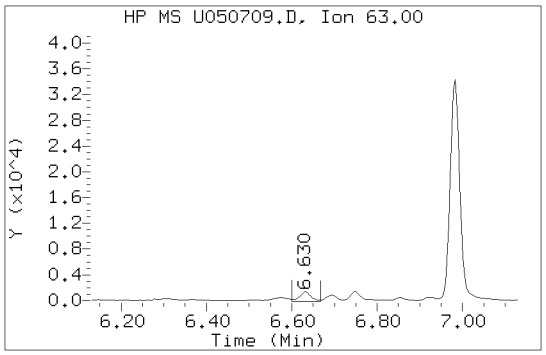

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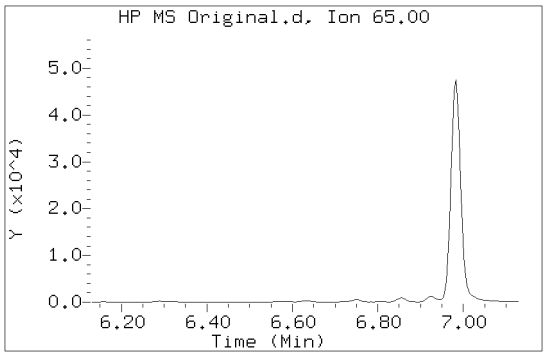

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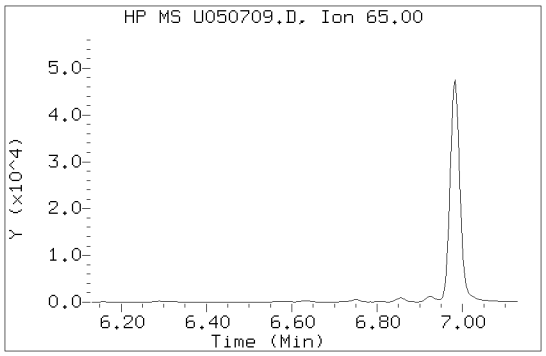

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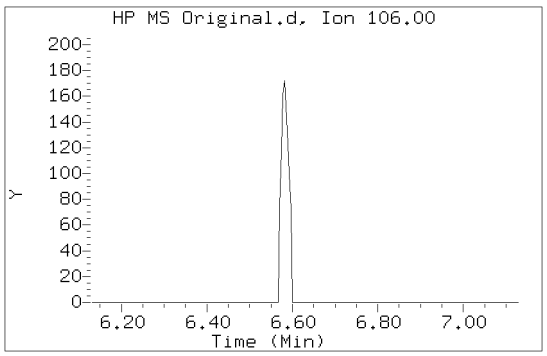

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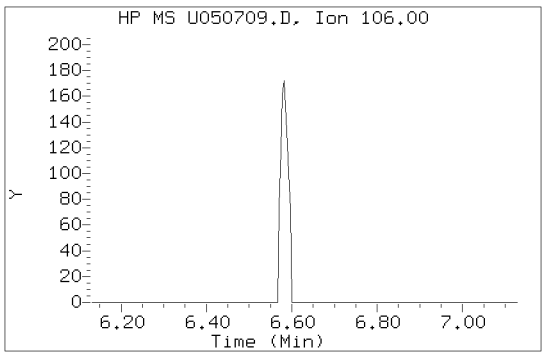

Chloroprene (126-99-8)

Reason Code:

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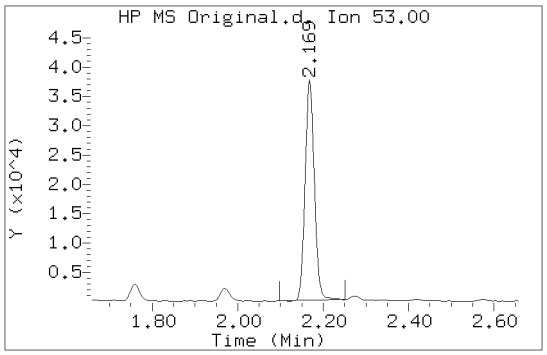

AFTER
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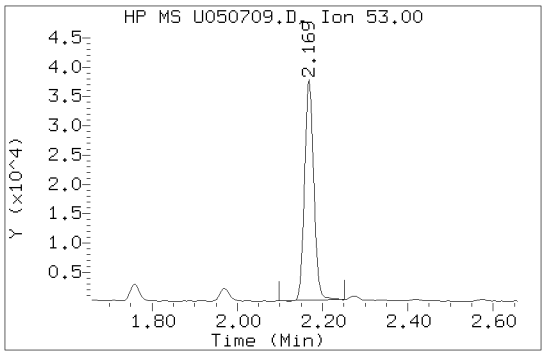

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Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

Chloroprene (126-99-8)

Reason Code:

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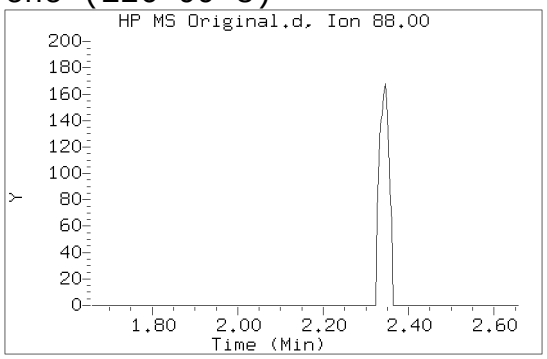

AFTER

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AREA
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HEIGHT
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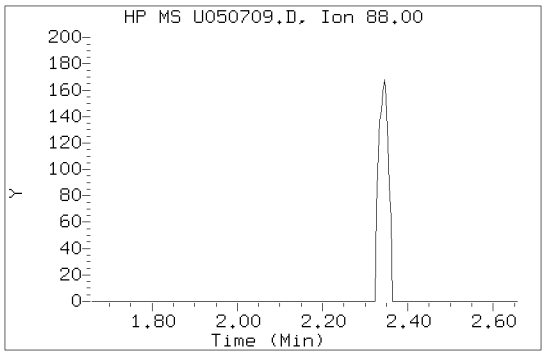

Acetaldehyde (75-07-0)

Reason Code:

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07-May-2024
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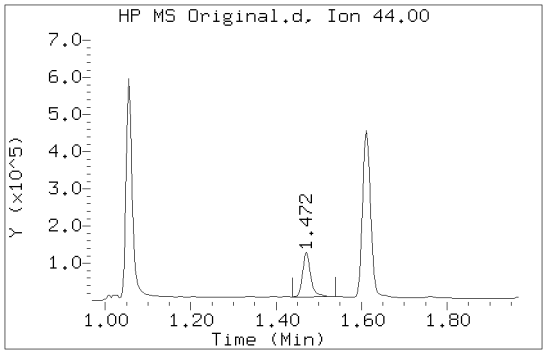

AFTER

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28-May-2024
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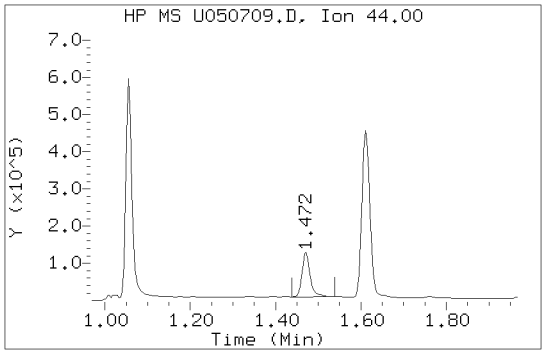

BEFORE

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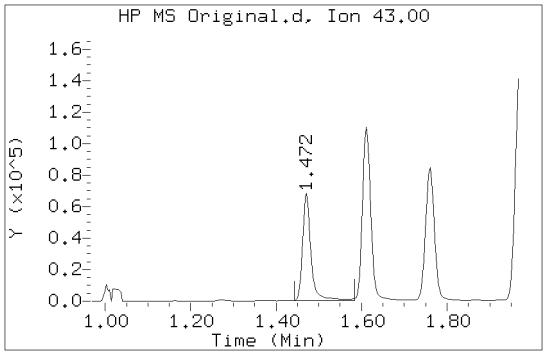

AFTER

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HEIGHT
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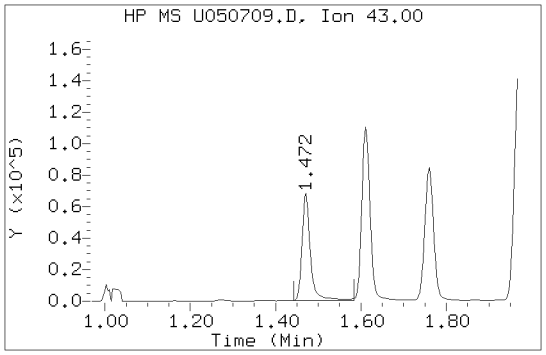

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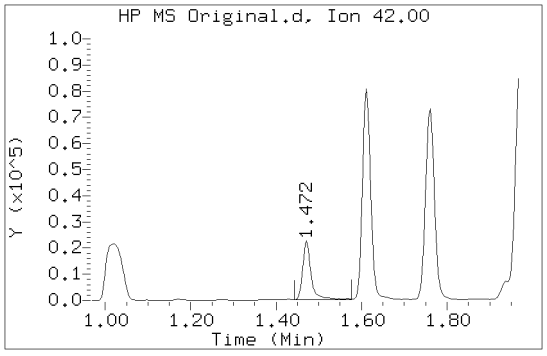

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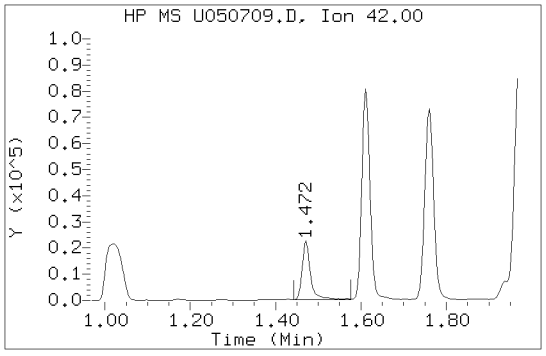

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Inj Date : 07-MAY-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

BEFORE

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07-May-2024
16:09
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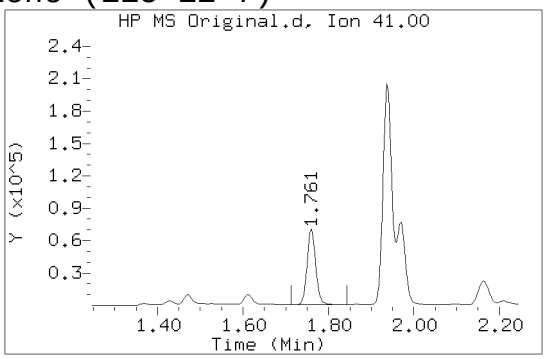
tastan



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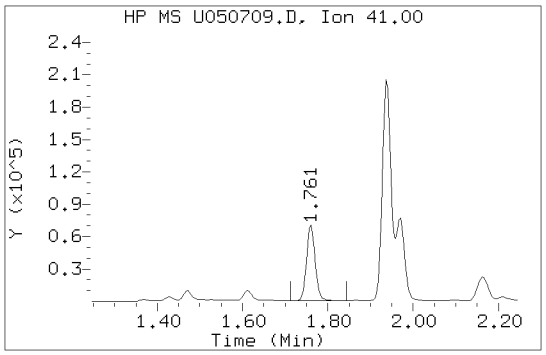

BEFORE

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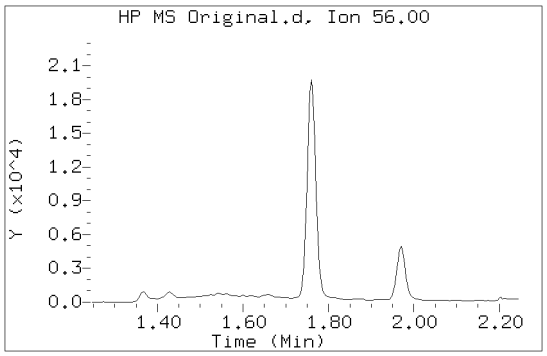

AFTER

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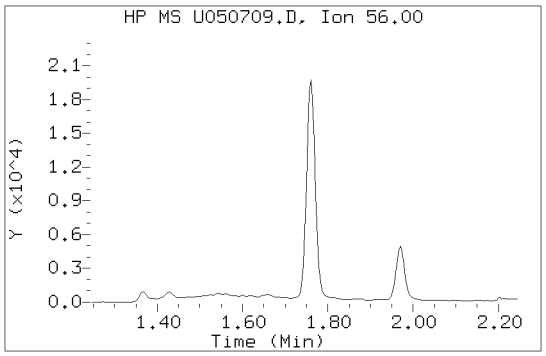

BEFORE

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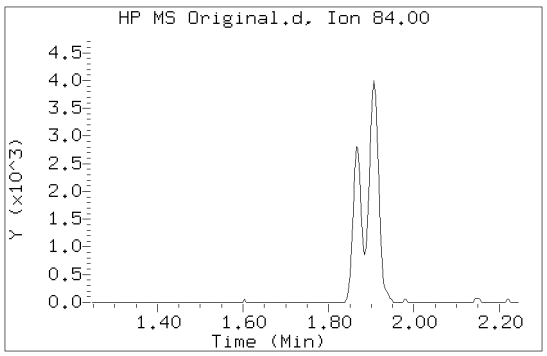

AFTER

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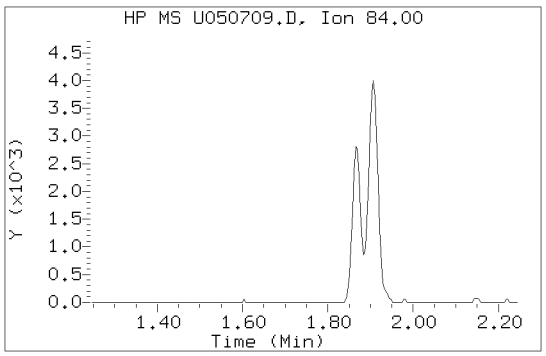
28-May-2024
10:32
firat



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D
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Inj Date : 07-MAY-2024 14:58
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\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i Quant Type: ISTD
Cal Date : 07-MAY-2024 14:36 Cal File: U050709.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: 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	4.819	4.819	(1.000)	251082	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	226326	150.000	149.17
3	Chloromethane	50	1.303	1.303	(0.270)	294398	150.000	146.90
4	Propionitrile	54	4.339	4.339	(0.900)	454283	1500.00	1493.44
5	Vinyl Chloride	62	1.378	1.378	(0.286)	302899	150.000	148.60
6	Bromomethane	94	1.610	1.610	(0.334)	151120	150.000	146.73
7	Chloroethane	64	1.696	1.696	(0.352)	199936	150.000	147.66
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	350099	150.000	147.80
9	Acrolein	56	2.270	2.270	(0.471)	26689	300.000	302.33
10	Acetone	43	2.412	2.412	(0.501)	180361	300.000	292.90
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	199614	150.000	147.60
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	804764	3000.00	3038.02
13	Acetonitrile	39	2.675	2.675	(0.555)	344306	1500.00	1383.06
14	Allyl Chloride	41	2.675	2.675	(0.555)	833650	150.000	131.31
15	Iodomethane	142	2.472	2.472	(0.513)	526192	300.000	262.95
16	Acrylonitrile	53	3.068	3.068	(0.637)	237997	300.000	300.13
17	Methylene Chloride	84	2.795	2.795	(0.580)	240290	150.000	146.60
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	761849	150.000	130.09
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1235712	300.000	313.08
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	220571	150.000	147.94

21 Vinyl Acetate	43	4.343	4.343 (0.901)	311566	300.000	288.74
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	407315	150.000	146.16

	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)	87928	150.000	147.74(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	235563	300.000	296.99
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	193659	150.000	141.64(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	285676	150.000	148.27
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	255129	150.000	148.72
	28 Chloroform	83	4.575	4.575	(0.949)	406965	150.000	140.95
	29 Bromochloromethane	128	4.470	4.470	(0.928)	120727	150.000	148.33
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	262465	150.000	149.31
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	331201	150.000	160.40
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	308855	150.000	146.25
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	320983	150.000	134.32
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	275639	150.000	148.44
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	311362	150.000	149.43
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	366811	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	947826	150.000	144.09
	38 Trichloroethene	130	5.790	5.790	(1.043)	241342	150.000	148.41
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	299249	150.000	160.29
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	138256	150.000	157.93
	41 2-Chloroethylvinyl ether	63	6.629	6.629	(1.194)	4539	300.000	309.39(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	254059	150.000	147.35
	43 2-Nitropropane	43	6.510	6.510	(1.351)	78753	150.000	160.18
	44 Dibromomethane	93	6.120	6.120	(1.102)	151133	150.000	140.03
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	602677	300.000	321.86
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	373463	150.000	148.86
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	331174	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	978016	150.000	149.21
	49 Ethyl Methacrylate	69	7.218	7.218	(1.300)	385305	150.000	143.51
	50 Toluene	91	6.982	6.982	(0.853)	992868	150.000	151.81
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	309383	150.000	149.08
	52 2-Hexanone	43	7.589	7.589	(0.927)	406845	300.000	292.30
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	188606	150.000	138.91
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	410962	150.000	143.78
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	244807	150.000	146.34
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	190045	150.000	148.19
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	230437	150.000	151.36
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	233546	150.000	149.41
	59 Chlorobenzene	112	8.208	8.208	(1.003)	641394	150.000	141.09
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	228180	150.000	146.38
	61 Ethylbenzene	106	8.305	8.305	(1.015)	330448	150.000	153.95
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	829443	300.000	319.63
	63 o-Xylene	106	8.748	8.748	(1.069)	410428	150.000	158.35
	64 Styrene	104	8.759	8.759	(1.070)	725227	150.000	165.56
	66 Bromoform	173	8.916	8.916	(1.089)	168544	150.000	150.28
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1026279	150.000	164.66
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	336129	150.000	148.74
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	360368	150.000	148.68
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	176969	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	353084	150.000	156.65
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	84320	150.000	151.56
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1154318	150.000	161.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	282375	150.000	147.01
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	849763	150.000	164.90

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	722317	150.000	149.76
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	833947	150.000	153.61

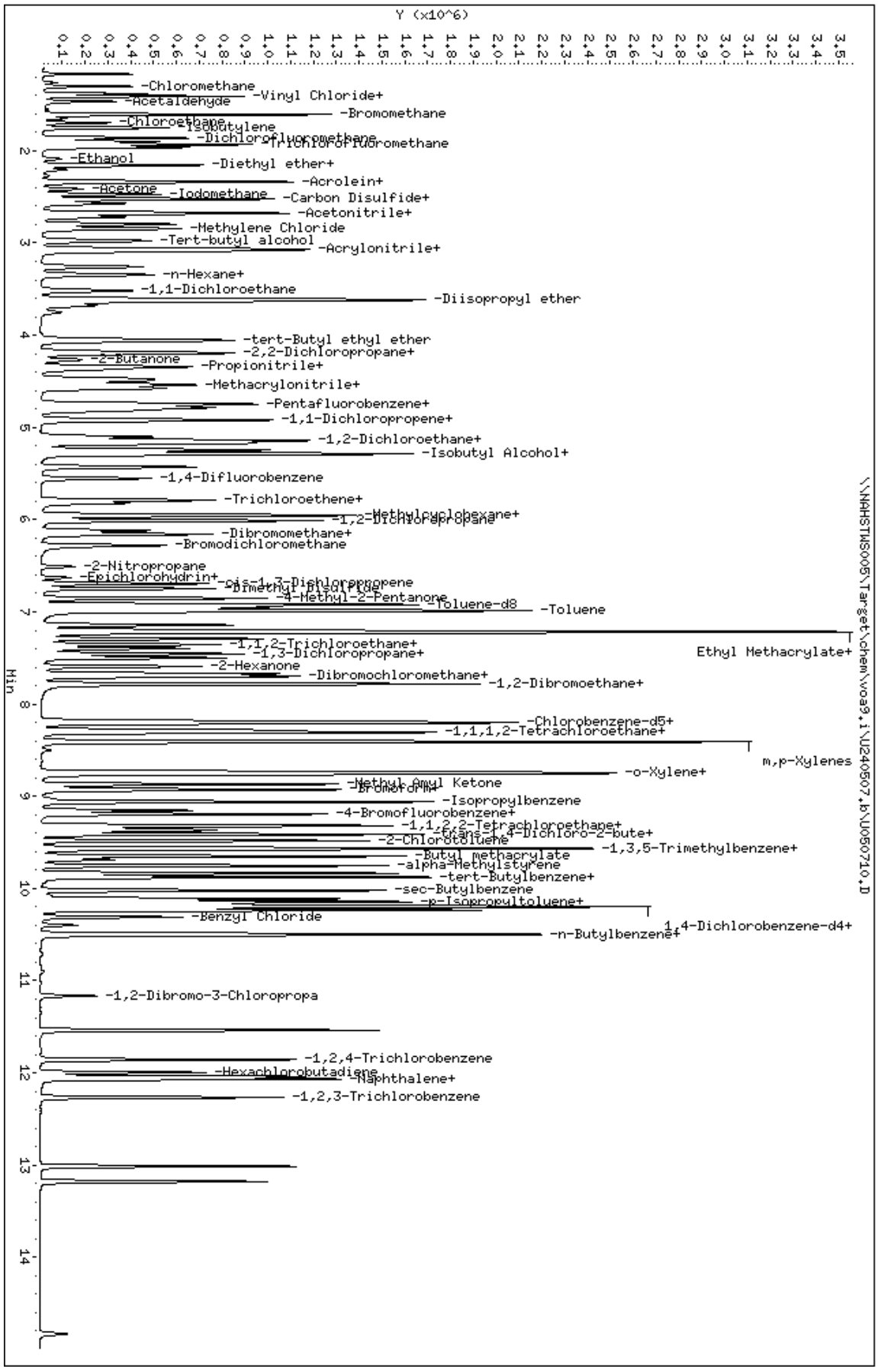
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	707454	150.000	163.54
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	849067	150.000	168.30
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	951392	150.000	166.90
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	860496	150.000	173.32
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	496656	150.000	147.85
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	516179	150.000	148.10
86	Benzyl Chloride	91	10.311	10.311	(1.260)	395943	150.000	154.21
87	n-Butylbenzene	91	10.491	10.491	(1.031)	749513	150.000	150.04
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.032)	498844	150.000	149.48
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	50380	150.000	152.12
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.165)	337577	150.000	151.21
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	135937	150.000	158.50
92	Naphthalene	128	12.065	12.065	(1.186)	889446	150.000	148.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	321232	150.000	161.10
146	Methyl acetate	43	2.716	2.716	(0.564)	408705	150.000	148.61
138	Freon TF	101	2.337	2.337	(0.485)	205865	150.000	154.09
141	Cyclohexane	56	4.785	4.785	(0.993)	356274	150.000	146.32
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	115705	300.000	298.31
147	Methylcyclohexane	55	5.947	5.947	(1.071)	755797	150.000	166.63(A)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	78579	3000.00	2950.13
132	n-Butanol	56	5.824	5.824	(1.208)	200314	3000.00	2973.46
136	n-Hexane	57	3.346	3.346	(0.694)	249117	150.000	146.77
139	Diethyl ether	59	2.150	2.150	(0.446)	227120	150.000	128.91
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	538019	3000.00	2949.30
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	444241	3000.00	2951.53
152	Amyl alcohol	42	7.398	7.398	(0.904)	231157	3000.00	3010.06
156	Diisopropyl ether	45	3.627	3.627	(0.753)	950914	150.000	133.89
162	Butyl acrylate	55	8.733	8.733	(1.067)	681141	150.000	152.42
187	n-Amyl acetate	43	8.931	8.931	(1.091)	548844	150.000	161.23
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1316712	150.000	150.89
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	979586	150.000	149.15
167	Ethanol	45	2.090	2.090	(0.434)	83180	3000.00	2979.76
172	tert-Butyl formate	59	5.246	5.246	(1.089)	536846	300.000	299.55(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	677428	3000.00	2949.95
174	tert-Amyl methyl ether	73	5.287	5.287	(1.097)	861393	150.000	151.97
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.841)	829625	150.000	144.17
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	536846	3000.00	3115.71
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1993529	3000.00	2954.51
140	1,3-Butadiene	54	1.408	1.408	(0.292)	241564	150.000	148.50
158	Dichlorofluoromethane	67	1.861	1.861	(0.386)	492248	150.000	138.13
182	Epichlorohydrin	57	6.629	6.629	(1.194)	93717	600.000	598.36
M 94	1,2-Dichloroethylene (total)	96				475700	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	420083	150.000	149.14
130	Ethyl Acetate	43	4.343	4.343	(0.901)	311566	150.000	145.41
131	Methyl Acrylate	55	4.369	4.369	(0.907)	371780	150.000	149.71
189	n-Butyl acetate	43	7.705	7.705	(0.941)	508889	150.000	146.61
134	Cyclohexanone	55	9.152	9.152	(0.900)	251800	3000.00	3015.02
185	Isoprene	39	2.161	2.161	(0.449)	61989	150.000	153.33
188	Isopropyl acetate	43	5.287	5.287	(0.952)	804924	150.000	154.91
150	Allyl alcohol	57	3.346	3.346	(0.694)	249117	3000.00	2935.46
194	Acetaldehyde	44	1.464	1.464	(0.304)	240390	600.000	614.12(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.083)	714947	150.000	148.69

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	299141	150.000	149.36
202 Isobutylene	41	1.752	1.752 (0.364)	153193	150.000	150.42(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.234)	755797	150.000	164.88
163 Butyl methacrylate	41	9.647	9.647	(0.948)	404818	150.000	176.66
159 Propylene oxide	43	2.206	2.206	(0.458)	45014	300.000	266.61(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	367719	150.000	153.17

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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Date : 07-MAY-2024 14:58
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9,i\U240507,b\U050710.D

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050710.D
Inj Date : 07-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD150

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
63
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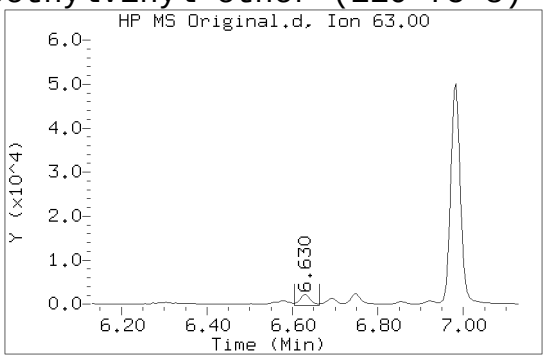
HEIGHT
2430
07-May-2024
16:10
firat
tastan



AFTER

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AREA
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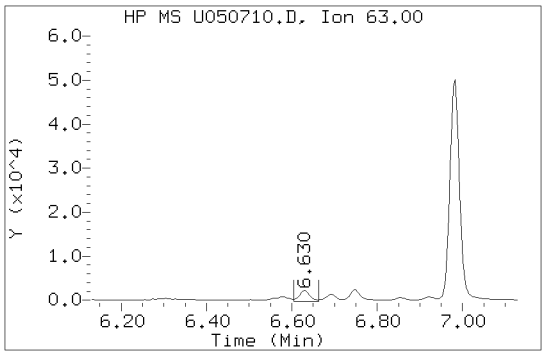
HEIGHT
2430
28-May-2024
10:32
firat



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16:10
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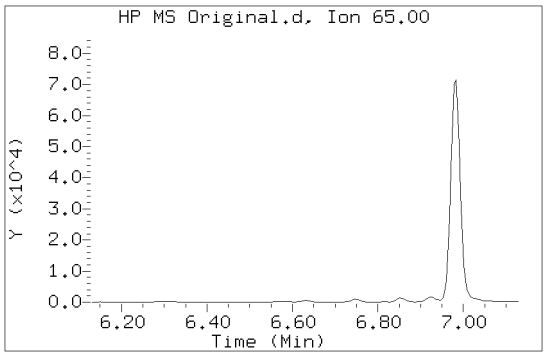

AFTER

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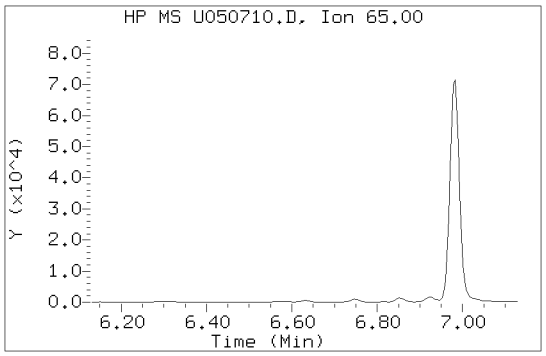

BEFORE

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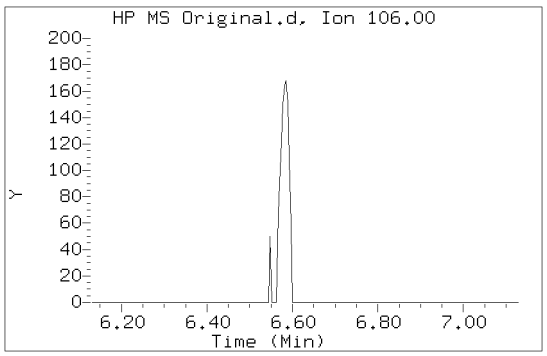

AFTER

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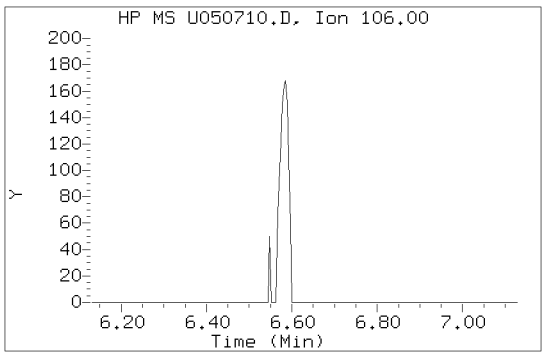

Chloroprene (126-99-8)

Reason Code:

BEFORE

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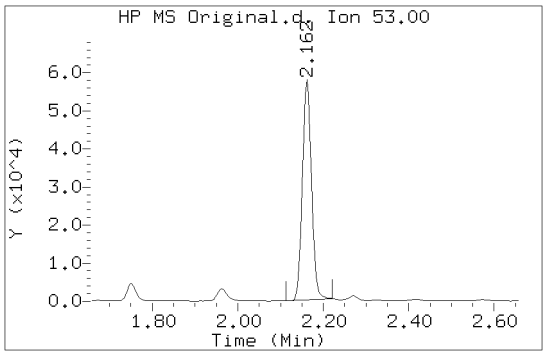
07-May-2024
16:10
firat
tastan



AFTER

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28-May-2024
10:32
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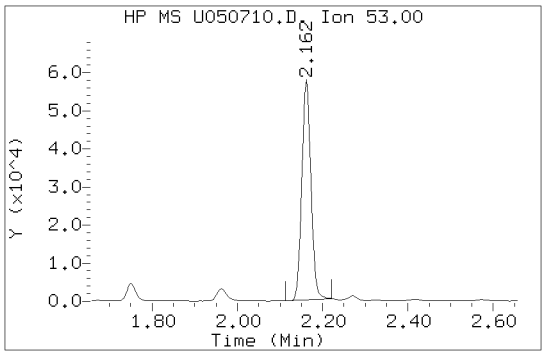

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Inj Date : 07-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD150

Chloroprene (126-99-8)

Reason Code:

BEFORE

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16:10
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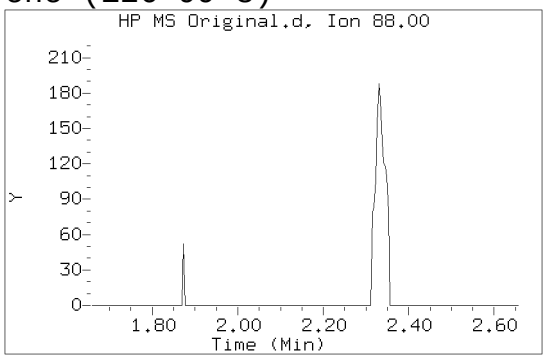

AFTER

MASS
88
AREA
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28-May-2024
10:32
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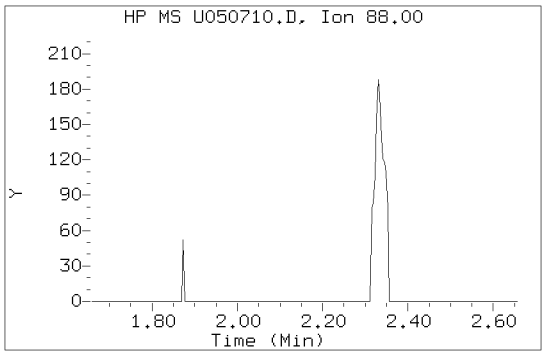

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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07-May-2024
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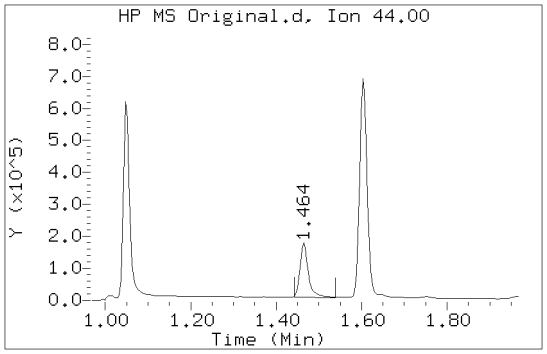
firat
tastan



AFTER

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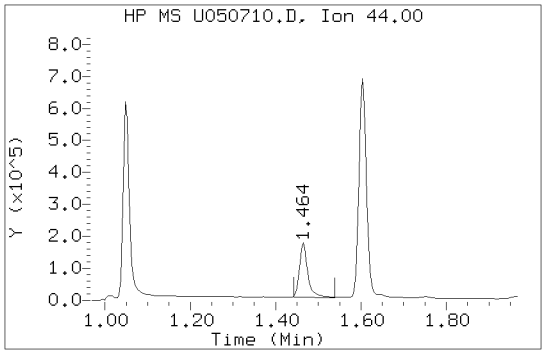

BEFORE

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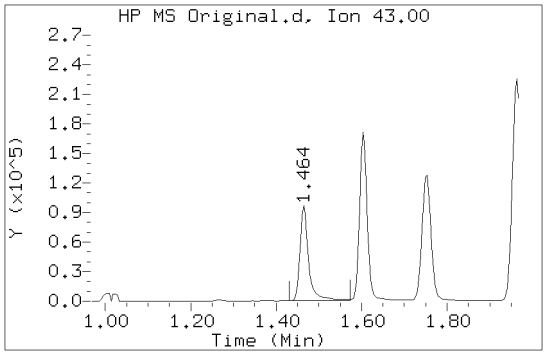

AFTER

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10:32
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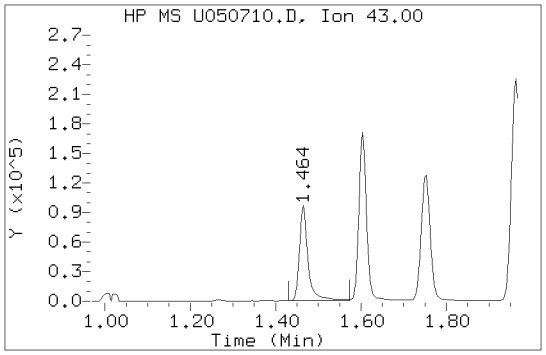

BEFORE

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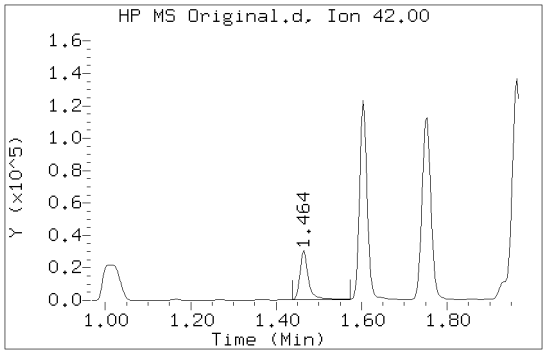

AFTER

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AREA
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HEIGHT
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28-May-2024
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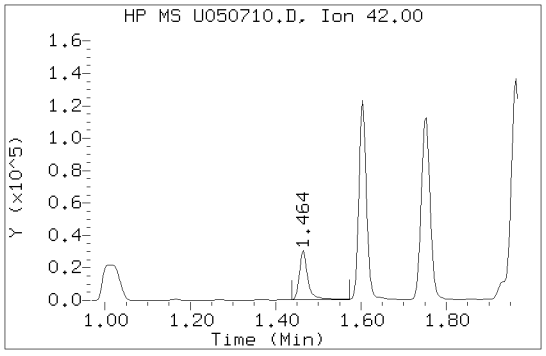

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Inj Date : 07-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

BEFORE
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41
AREA
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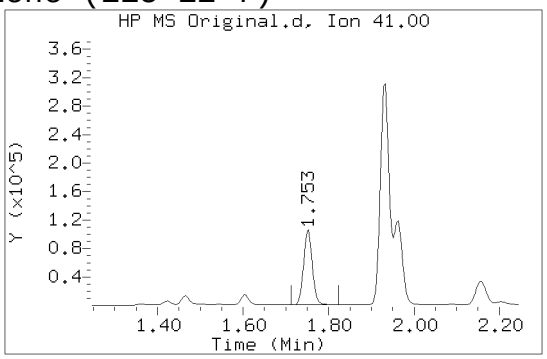
HEIGHT
105277
07-May-2024
16:10
firat
tastan



AFTER
MASS
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28-May-2024
10:32
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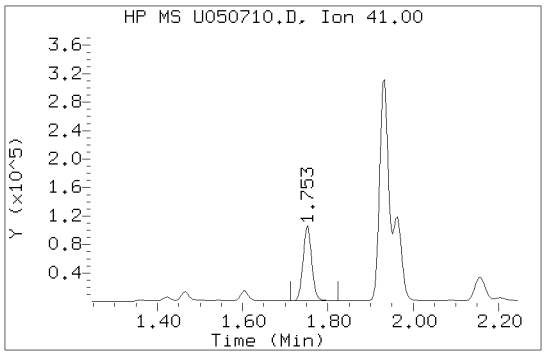

BEFORE
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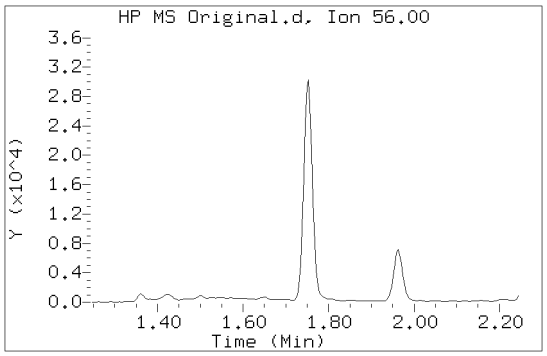
07-May-2024
16:10
firat
tastan



AFTER
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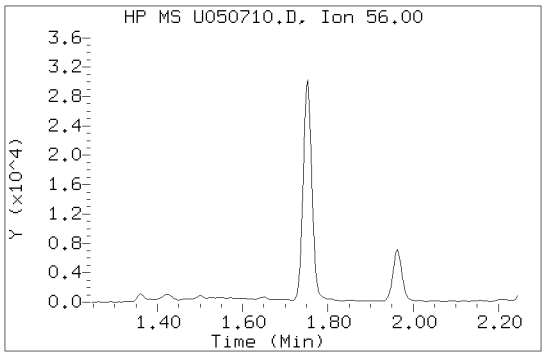

BEFORE
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07-May-2024
16:10
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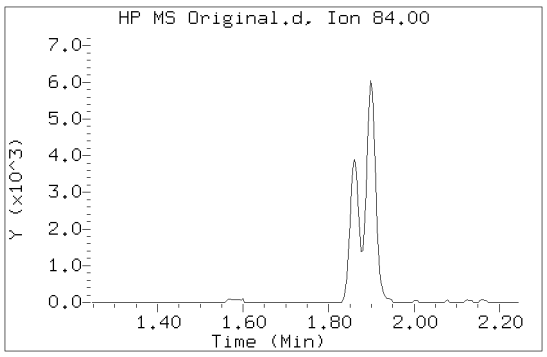

AFTER
MASS
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HEIGHT
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28-May-2024
10:32
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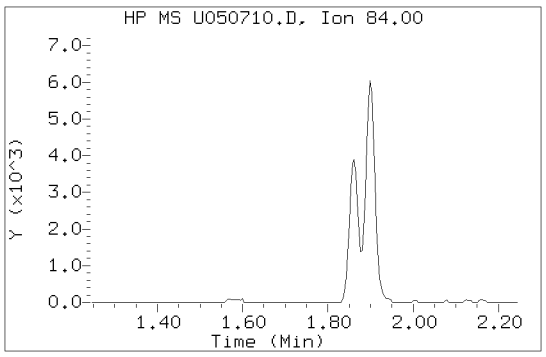

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D Page 1
Report Date: 28-May-2024 10:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050711.D
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Inj Date : 07-MAY-2024 15:20
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 28-May-2024 10:33 VOA9.i   Quant Type: ISTD
Cal Date : 07-MAY-2024 14:58   Cal File: U050710.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: 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)	261338	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	321982	200.000	200.04(A)
3	Chloromethane	50	1.295	1.295	(0.269)	428218	200.000	201.12(A)
4	Propionitrile	54	4.339	4.339	(0.901)	628272	2000.00	1989.52
5	Vinyl Chloride	62	1.374	1.374	(0.285)	431237	200.000	200.34(A)
6	Bromomethane	94	1.603	1.603	(0.333)	218451	200.000	204.07(A)
7	Chloroethane	64	1.689	1.689	(0.351)	284336	200.000	200.81(A)
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	499853	200.000	200.63(A)
9	Acrolein	56	2.262	2.262	(0.470)	36447	400.000	398.66
10	Acetone	43	2.409	2.409	(0.500)	254435	400.000	398.71
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	288932	200.000	200.72(A)
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1196280	4000.00	4338.79(A)
13	Acetonitrile	39	2.671	2.671	(0.555)	467373	2000.00	1803.74
14	Allyl Chloride	41	2.671	2.671	(0.555)	1131432	200.000	171.23
15	Iodomethane	142	2.465	2.465	(0.512)	768085	400.000	316.81
16	Acrylonitrile	53	3.065	3.065	(0.636)	325459	400.000	395.71
17	Methylene Chloride	84	2.791	2.791	(0.580)	341887	200.000	201.46(A)
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	1062389	200.000	174.30
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1791772	400.000	436.15(A)
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	315136	200.000	200.68(A)

21 Vinyl Acetate	43	4.339	4.339 (0.901)	439879	400.000	391.66
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	586207	200.000	202.20(A)

	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)	127729	200.000	200.82(AM)
	24 2-Butanone	43	4.264	4.264	(0.886)	336843	400.000	408.01(A)
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	264787	200.000	186.06(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	417606	200.000	200.30(A)
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	360131	200.000	200.27(A)
	28 Chloroform	83	4.572	4.572	(0.949)	575824	200.000	191.61
	29 Bromochloromethane	128	4.467	4.467	(0.928)	169265	200.000	200.07(A)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	361095	200.000	198.05
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	480412	200.000	223.54(A)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	446214	200.000	202.67(A)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	451449	200.000	181.21
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	404504	200.000	200.25(A)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	424260	200.000	196.61
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	382418	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	1352374	200.000	197.20
	38 Trichloroethene	130	5.786	5.786	(1.042)	346154	200.000	200.39(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	438776	200.000	225.43(A)
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	192459	200.000	211.22(A)
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.194)	6074	400.000	396.19(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	362446	200.000	201.58(A)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	117550	200.000	229.71(A)
	44 Dibromomethane	93	6.120	6.120	(1.102)	217340	200.000	193.15
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	864775	400.000	444.95(A)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	550020	200.000	200.09(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	343741	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1351380	200.000	199.22
	49 Ethyl Methacrylate	69	7.222	7.222	(1.300)	554352	200.000	198.05
	50 Toluene	91	6.982	6.982	(0.853)	1417616	200.000	208.83(A)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	457859	200.000	199.96
	52 2-Hexanone	43	7.589	7.589	(0.927)	591469	400.000	407.99(A)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	269993	200.000	191.58
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	582454	200.000	196.34
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	357218	200.000	204.73(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	274355	200.000	200.53(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	328532	200.000	207.90(A)
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	335230	200.000	199.87
	59 Chlorobenzene	112	8.208	8.208	(1.003)	917302	200.000	194.41
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	332181	200.000	204.53(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	473018	200.000	212.32(A)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1197762	400.000	444.69(A)
	63 o-Xylene	106	8.748	8.748	(1.069)	588235	200.000	218.65(A)
	64 Styrene	104	8.759	8.759	(1.070)	1035523	200.000	227.76(A)
	66 Bromoform	173	8.916	8.916	(1.089)	252813	200.000	199.59
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1483154	200.000	229.26(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	480624	200.000	201.99(A)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	501218	200.000	199.86
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186202	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	517688	200.000	218.29(A)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	125868	200.000	199.24
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1664610	200.000	221.92(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	405228	200.000	200.51(A)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1228132	200.000	226.51(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1028717	200.000	202.72(A)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	1200535	200.000	210.17(A)

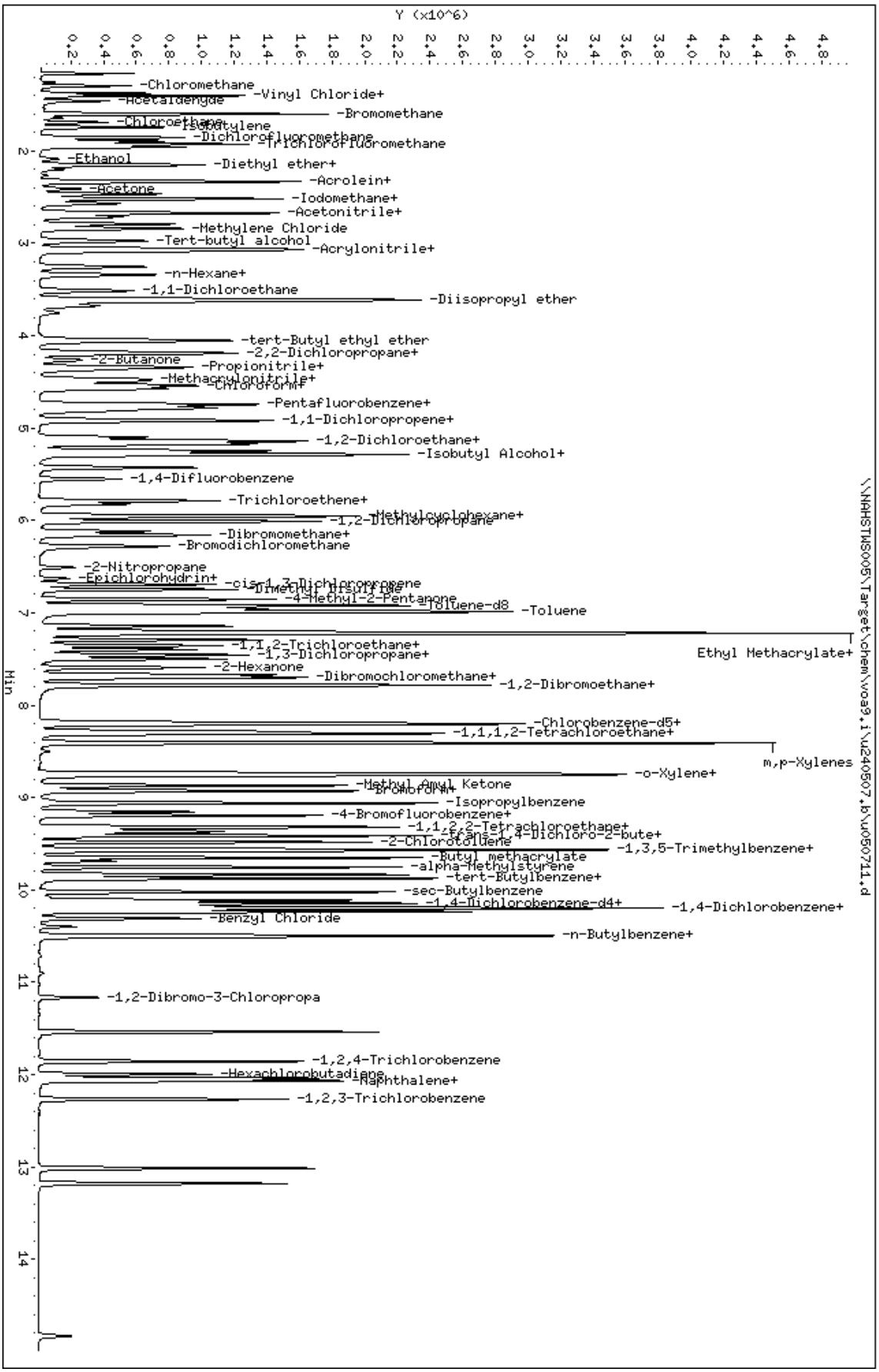
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1020039	200.000	224.11(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1211487	200.000	228.23(A)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1377337	200.000	229.65(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1237105	200.000	236.82(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	715621	200.000	202.47(A)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	742115	200.000	202.20(A)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	627463	200.000	198.25
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1083507	200.000	199.70
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	707408	200.000	201.34(A)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	73753	200.000	198.76
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	486707	200.000	199.29
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	195715	200.000	216.88(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1279650	200.000	202.79(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	461906	200.000	220.16(A)
146	Methyl acetate	43	2.712	2.712	(0.563)	566150	200.000	198.39
138	Freon TF	101	2.334	2.334	(0.485)	294912	200.000	212.09(A)
141	Cyclohexane	56	4.781	4.781	(0.993)	516629	200.000	203.94(A)
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	160482	400.000	398.64
147	Methylcyclohexane	55	5.947	5.947	(1.071)	1065611	200.000	225.35(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	111654	4000.00	4032.70(A)
132	n-Butanol	56	5.824	5.824	(1.209)	283464	4000.00	4042.61(A)
136	n-Hexane	57	3.342	3.342	(0.694)	363692	200.000	200.92(A)
139	Diethyl ether	59	2.142	2.142	(0.445)	313362	200.000	170.88
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	763294	4000.00	4030.07(A)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	627994	4000.00	4020.10(A)
152	Amyl alcohol	42	7.398	7.398	(0.904)	332830	4000.00	3996.72
156	Diisopropyl ether	45	3.623	3.623	(0.752)	1316634	200.000	178.10
162	Butyl acrylate	55	8.733	8.733	(1.067)	991139	200.000	198.88
187	n-Amyl acetate	43	8.931	8.931	(1.091)	820629	200.000	232.26(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1841641	200.000	200.61(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1366624	200.000	197.76
167	Ethanol	45	2.086	2.086	(0.433)	115408	4000.00	3985.69
172	tert-Butyl formate	59	5.246	5.246	(1.090)	777263	400.000	416.68(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	977684	4000.00	4095.80(A)
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	1175809	200.000	199.31
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	1174436	200.000	196.09
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	777263	4000.00	4334.00(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2880850	4000.00	4081.87(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	348448	200.000	205.80(A)
158	Dichlorofluoromethane	67	1.854	1.854	(0.385)	678537	200.000	182.93
182	Epichlorohydrin	57	6.630	6.630	(1.194)	137015	800.000	839.10(A)
M 94	1,2-Dichloroethylene (total)	96				675267	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	603435	200.000	202.87(A)
130	Ethyl Acetate	43	4.339	4.339	(0.901)	439879	200.000	197.24
131	Methyl Acrylate	55	4.369	4.369	(0.907)	515432	200.000	199.71
189	n-Butyl acetate	43	7.705	7.705	(0.941)	743802	200.000	205.25(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	361742	4000.00	4117.47(A)
185	Isoprene	39	2.154	2.154	(0.447)	89290	200.000	212.20(A)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	1189596	200.000	219.60(A)
150	Allyl alcohol	57	3.342	3.342	(0.694)	363692	4000.00	4018.40(A)
194	Acetaldehyde	44	1.456	1.456	(0.303)	313789	800.000	772.98(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1025172	200.000	204.51

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	496146	200.000	135.46
202 Isobutylene	41	1.741	1.741 (0.362)	210955	200.000	199.11(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	1065611	200.000	223.35(A)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	579946	200.000	240.53(A)
159 Propylene oxide	43	2.199	2.199	(0.457)	64927	400.000	369.46(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	532256	200.000	198.52

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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Purge Volume: 5.0
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Instrument: VOA9,i
Operator: RKG
Column diameter: 0.18

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LabSampID : VSTD200

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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07-May-2024
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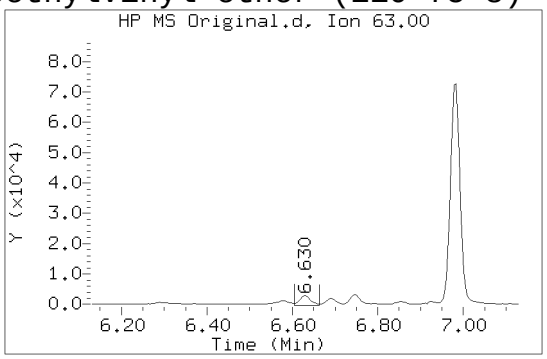

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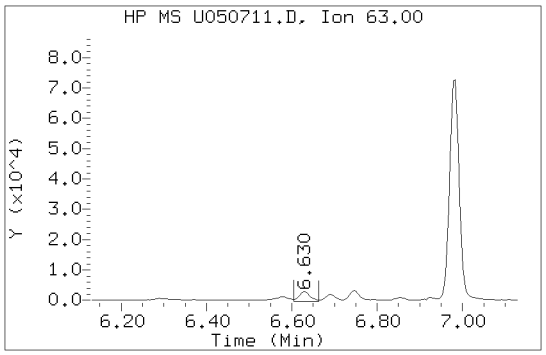

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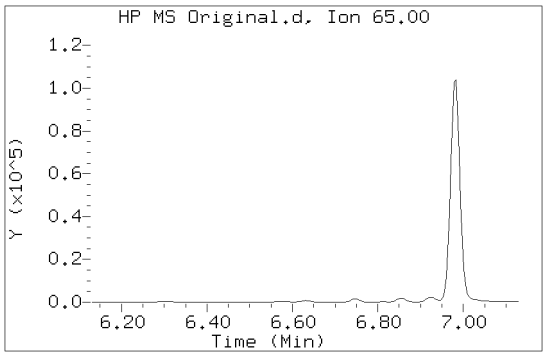

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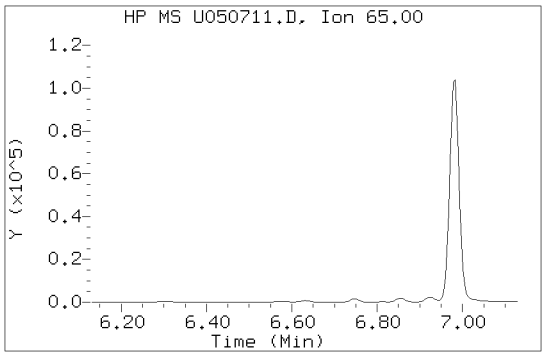

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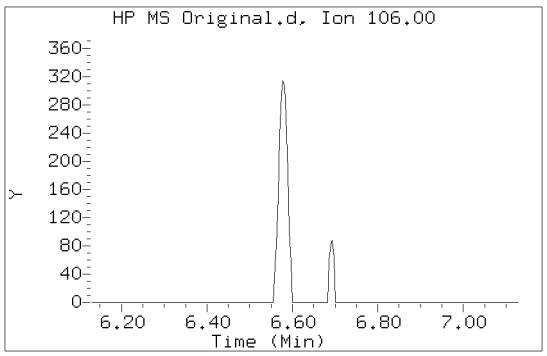

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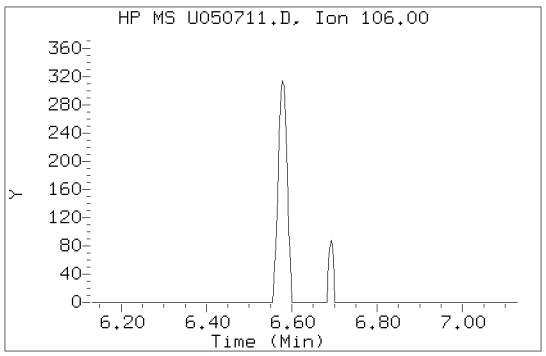

Chloroprene (126-99-8)

Reason Code:

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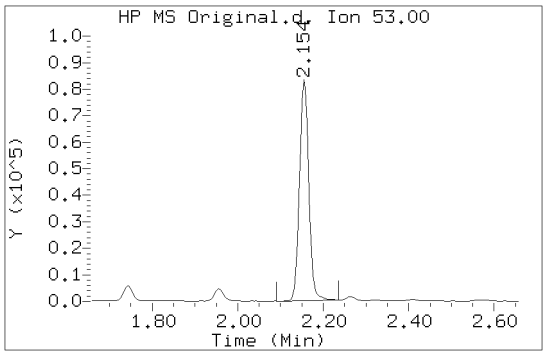

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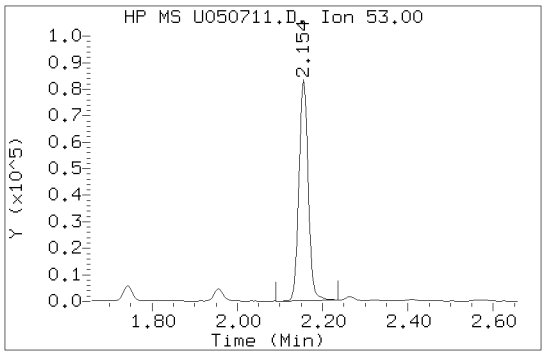

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Inj Date : 07-MAY-2024 15:20
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LabSampID : VSTD200

Chloroprene (126-99-8)

Reason Code:

BEFORE

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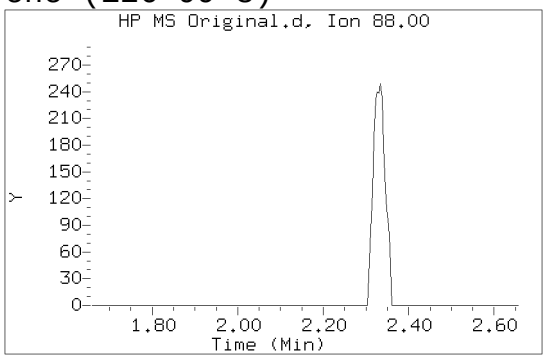

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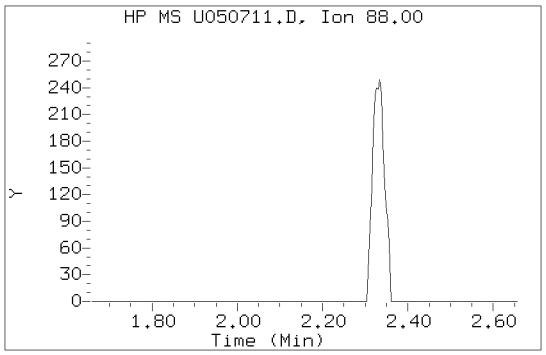

Acetaldehyde (75-07-0)

Reason Code:

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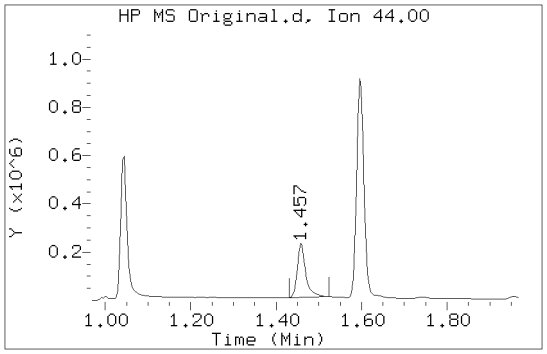

AFTER

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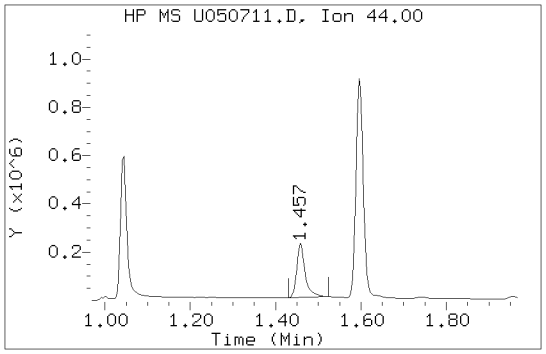

BEFORE

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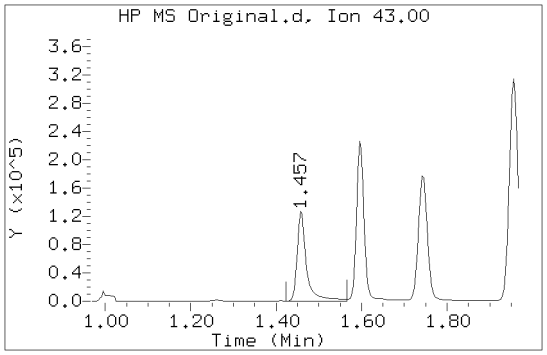

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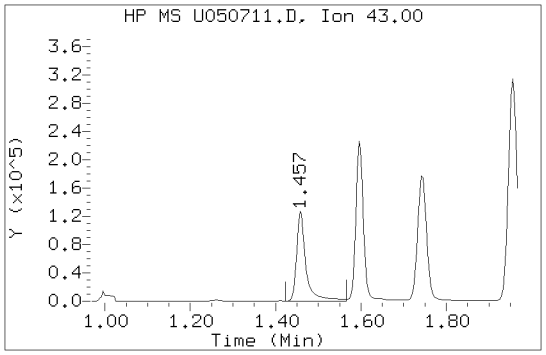

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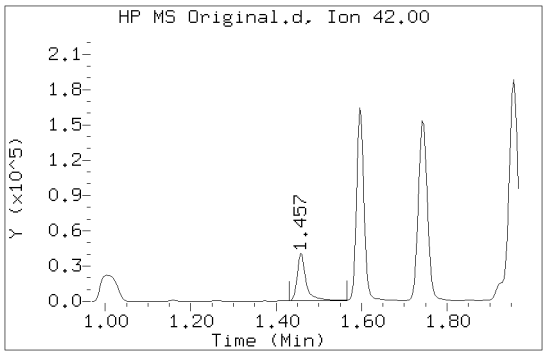

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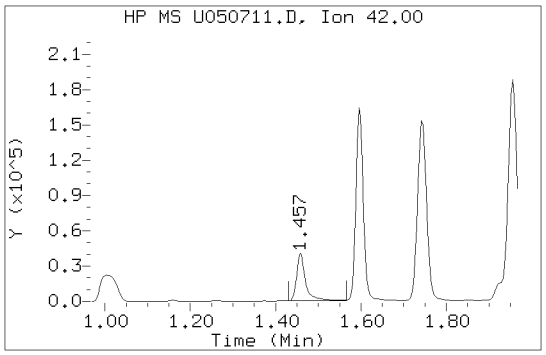

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Inj Date : 07-MAY-2024 15:20
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

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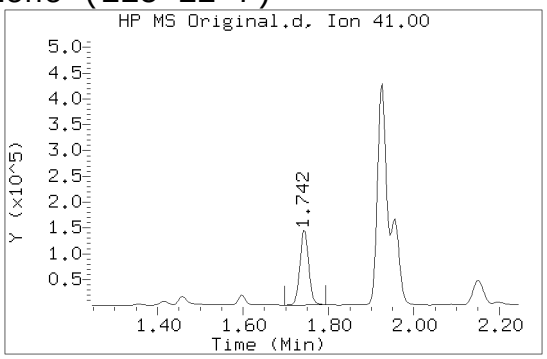

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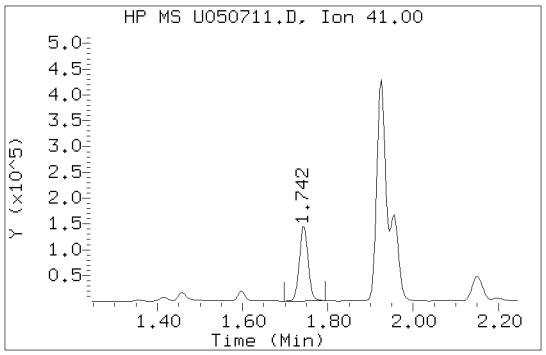

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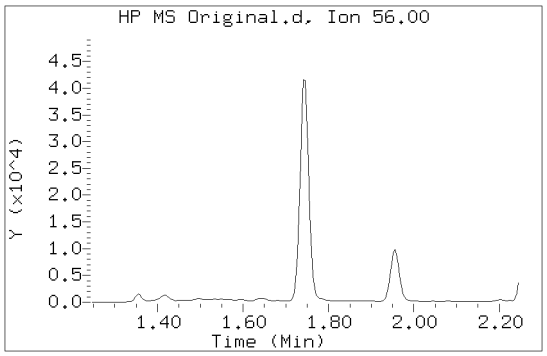

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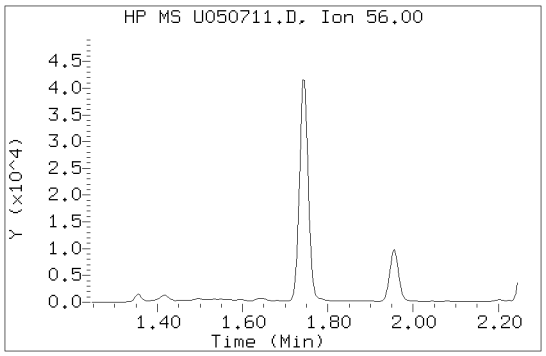

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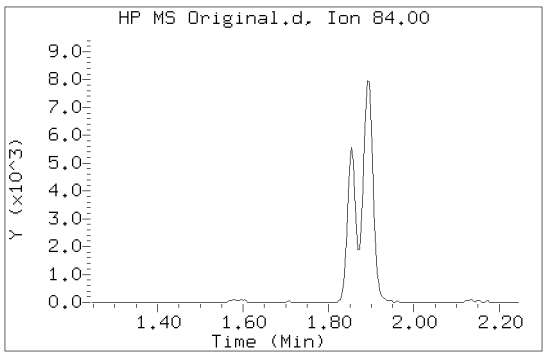

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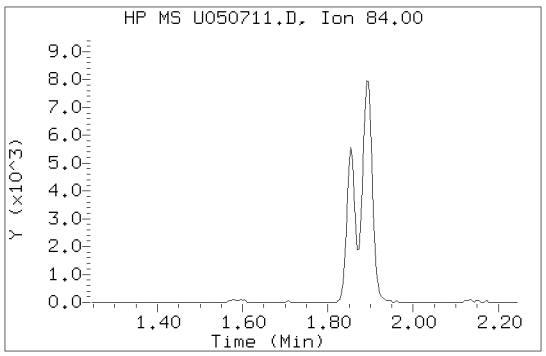

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D Page 1
Report Date: 28-May-2024 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
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Inj Date : 07-MAY-2024 16:25
Operator : RKG   Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240507.b\8260C.m
Meth Date : 28-May-2024 11:07 rucha.pate Quant Type: ISTD
Cal Date : 07-MAY-2024 15:20   Cal File: U050711.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	4.815	(1.000)	263402	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	62123	40.5905	40.59
3 Chloromethane	50	1.299	1.299	(0.270)	89391	43.4753	43.47
4 Propionitrile	54	4.336	4.336	(0.900)	149112	456.511	456.51
5 Vinyl Chloride	62	1.378	1.378	(0.286)	85351	40.9728	40.97
6 Bromomethane	94	1.614	1.614	(0.335)	55593	50.9801	50.98
7 Chloroethane	64	1.696	1.696	(0.352)	59189	41.6704	41.67
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	99431	40.7482	40.74
9 Acrolein	56	2.266	2.266	(0.471)	8164	83.6228	83.62
10 Acetone	43	2.409	2.409	(0.500)	58043	86.4697	86.46
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	58944	43.0109	43.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	251700	905.739	905.73
13 Acetonitrile	39	2.671	2.671	(0.555)	113839	435.898	435.89
14 Allyl Chloride	41	2.671	2.671	(0.555)	274066	41.1522	41.15
15 Iodomethane	142	2.469	2.469	(0.513)	135877	82.5805	82.58(M)
16 Acrylonitrile	53	3.065	3.065	(0.636)	79407	92.4495	92.44
17 Methylene Chloride	84	2.795	2.795	(0.580)	77043	42.8101	42.81
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	259774	42.2857	42.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	348774	84.2338	84.23
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63994	41.6142	41.61

21 Vinyl Acetate	43	4.339	4.339 (0.901)	91824	81.1187	81.11
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	122395	41.6684	41.66

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	2.158	2.158	(0.448)	26008	43.0721	43.07(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	69162	83.1192	83.11
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	62512	43.5837	43.58(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	75121	40.0205	40.02(M)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	74115	41.7076	41.70
	28 Chloroform	83	4.572	4.572	(0.949)	121586	40.1433	40.14
	29 Bromochloromethane	128	4.467	4.467	(0.928)	36929	42.7149	42.71
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	95714	50.5009	50.50
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	92283	42.6043	42.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	89645	40.5006	40.50
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	100617	40.1722	40.17
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	73910	41.0524	41.05
$	35 1,2-Dichloroethane-d4	65	5.097	5.097	(1.058)	114335	50.2286	50.22
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	384476	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	278028	40.3262	40.32
	38 Trichloroethene	130	5.786	5.786	(1.043)	68779	41.7071	41.70
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	83026	42.4292	42.42
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	41223	44.8880	44.88
	41 2-Chloroethylvinyl ether	63	6.630	6.630	(1.195)	1629	106.933	106.93(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	74741	41.4661	41.46
	43 2-Nitropropane	43	6.506	6.506	(1.351)	21265	41.2301	41.23
	44 Dibromomethane	93	6.116	6.116	(1.102)	45763	40.4529	40.45
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	171262	88.4117	88.41
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	99960	41.9733	41.97
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	342608	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	354217	51.1050	51.10
	49 Ethyl Methacrylate	69	7.215	7.215	(1.300)	113341	40.2765	40.27
	50 Toluene	91	6.978	6.978	(0.853)	292173	43.1840	43.18
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	81732	42.0870	42.08
	52 2-Hexanone	43	7.589	7.589	(0.927)	113712	81.5568	81.55
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	56758	40.4093	40.40
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	123682	41.8301	41.83
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	68102	41.1469	41.14
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	54081	42.6882	42.68
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	68331	43.3847	43.38
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	64537	40.5826	40.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	190161	40.4373	40.43
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	65014	41.7288	41.72
	61 Ethylbenzene	106	8.305	8.305	(1.015)	95921	43.1990	43.19
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	239036	89.0404	89.04
	63 o-Xylene	106	8.744	8.744	(1.068)	118762	44.2916	44.29
	64 Styrene	104	8.759	8.759	(1.070)	210441	46.4403	46.44
	66 Bromoform	173	8.916	8.916	(1.089)	41683	41.8489	41.84
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	293838	45.5722	45.57
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	97668	41.3612	41.36
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131348	51.1788	51.17
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186247	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	96067	40.4989	40.49
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	20970	42.2149	42.21
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	336648	44.8699	44.86
	74 Bromobenzene	156	9.318	9.318	(0.916)	82267	40.6967	40.69
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	243586	44.9159	44.91

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	206463	40.6765	40.67
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	242939	42.5204	42.52

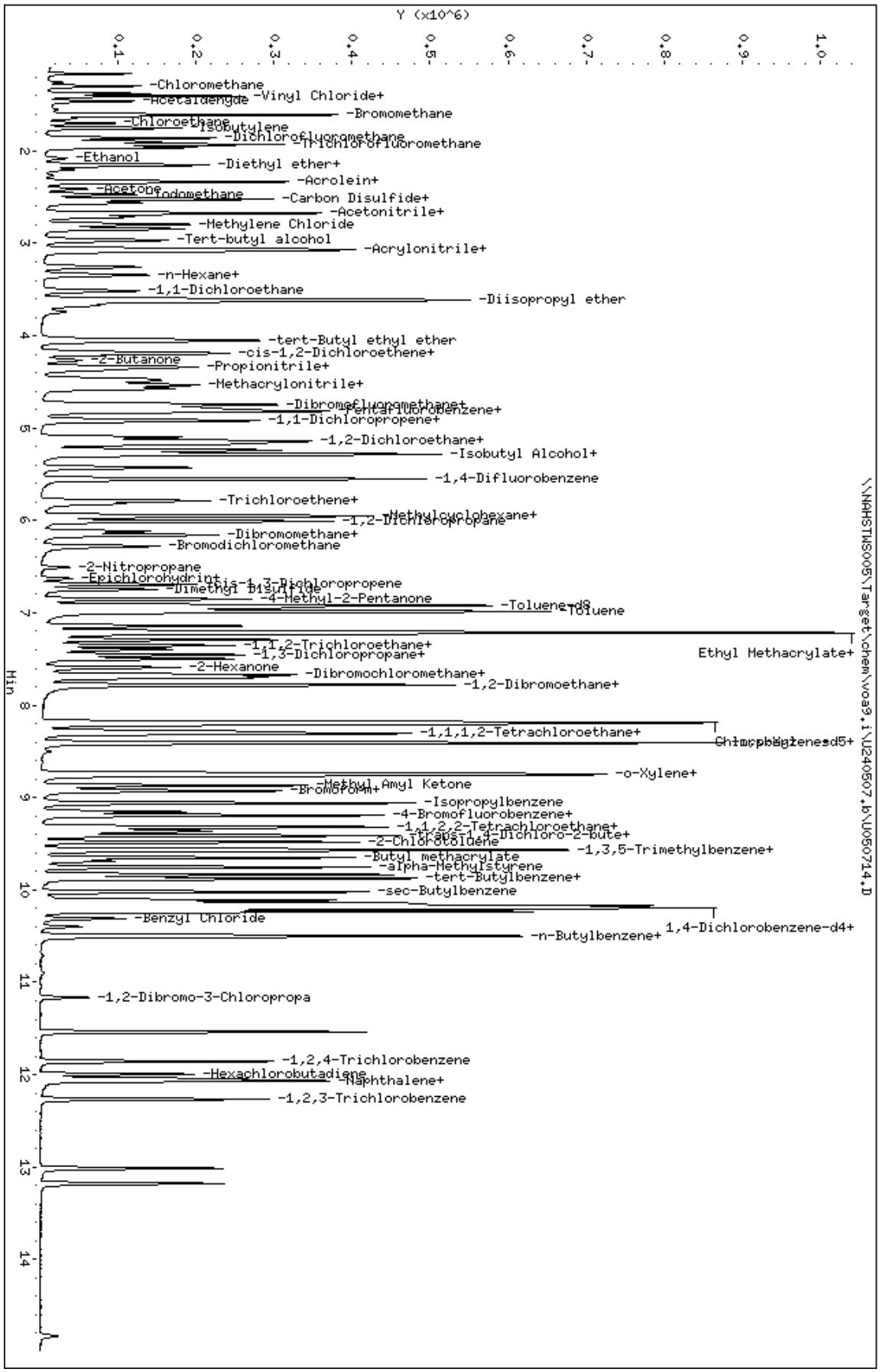
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	203175	44.6296	44.62
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	243909	45.9403	45.94
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	267742	44.6316	44.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	240742	46.0758	46.07
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	144060	40.7497	40.74
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	149489	41.0815	41.08
86	Benzyl Chloride	91	10.311	10.311	(1.260)	84492	41.4188	41.41(M)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	203952	41.5912	41.59
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	144128	41.3174	41.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12294	40.7287	40.72
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	91044	42.1772	42.17
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	36889	40.8698	40.86
92	Naphthalene	128	12.065	12.065	(1.187)	243506	40.3354	40.33
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	87699	41.7907	41.79
146	Methyl acetate	43	2.712	2.712	(0.563)	126574	42.5824	42.58
138	Freon TF	101	2.337	2.337	(0.485)	57443	40.9874	40.98
141	Cyclohexane	56	4.785	4.785	(0.994)	103088	40.1755	40.17
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	38460	92.2102	92.21
147	Methylcyclohexane	55	5.947	5.947	(1.072)	234441	49.3137	49.31
135	1,4-Dioxane	88	6.165	6.165	(1.280)	24227	856.716	856.71
132	n-Butanol	56	5.820	5.820	(1.209)	58544	828.382	828.38
136	n-Hexane	57	3.342	3.342	(0.694)	69381	40.5903	40.59
139	Diethyl ether	59	2.146	2.146	(0.446)	77216	41.7787	41.77
148	Tert-butyl alcohol	59	2.964	2.964	(0.615)	172632	882.832	882.83
149	Isopropyl alcohol	45	2.559	2.559	(0.531)	144415	892.528	892.52
152	Amyl alcohol	42	7.394	7.394	(0.903)	63757	870.731	870.73
156	Diisopropyl ether	45	3.620	3.620	(0.752)	324723	43.5832	43.58
162	Butyl acrylate	55	8.733	8.733	(1.067)	179978	44.7750	44.77
187	n-Amyl acetate	43	8.931	8.931	(1.091)	141502	40.1816	40.18
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	414438	45.0742	45.07
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	317727	45.9672	45.96
167	Ethanol	45	2.083	2.083	(0.433)	26643	881.279	881.27
172	tert-Butyl formate	59	5.239	5.239	(1.088)	158576	84.3449	84.34
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	199397	850.339	850.33
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	267074	44.9167	44.91
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	272642	45.1653	45.16
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	158576	877.288	877.28
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	568542	829.244	829.24
140	1,3-Butadiene	54	1.404	1.404	(0.292)	70517	41.3237	41.32
158	Dichlorofluoromethane	67	1.858	1.858	(0.386)	162117	43.3641	43.36
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29141	177.510	177.51
M 94	1,2-Dichloroethylene (total)	96				138109	83.3314	83.33
M 95	Xylenes (total)	106				357798	131.445	131.44
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	115687	40.5415	40.54
130	Ethyl Acetate	43	4.339	4.339	(0.901)	91824	40.8510	40.85
131	Methyl Acrylate	55	4.369	4.369	(0.907)	119669	45.3325	45.33
189	n-Butyl acetate	43	7.706	7.706	(0.941)	137040	40.3465	40.34
134	Cyclohexanone	55	9.153	9.153	(0.900)	74037	840.779	840.77
185	Isoprene	39	2.158	2.158	(0.448)	17847	42.0819	42.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	247635	45.4703	45.47
150	Allyl alcohol	57	3.342	3.342	(0.694)	69381	811.806	811.80
194	Acetaldehyde	44	1.460	1.460	(0.303)	85948	202.021	202.02

195 Methyl Amyl Ketone	43	8.868	8.868 (1.083)	198180	41.5898	41.58
200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	56102	44.5069	44.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
202 Isobutylene	41	1.753	1.753	(0.364)	46988	43.7578	43.75(M)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	234441	48.7550	48.75
163 Butyl methacrylate	41	9.647	9.647	(0.949)	104818	43.4636	43.46
159 Propylene oxide	43	2.199	2.199	(0.457)	14462	81.6514	81.65
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	96302	43.6616	43.66

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:
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: RKG
Column diameter: 0.18

Page 1

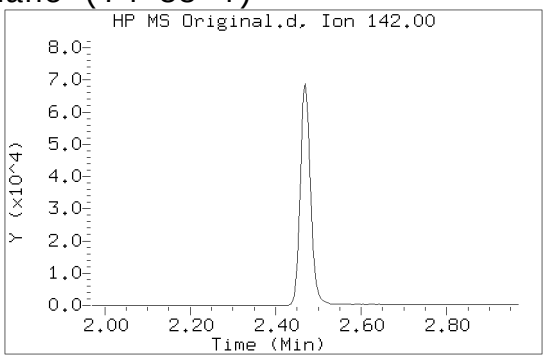
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Iodomethane (74-88-4)

Reason Code:

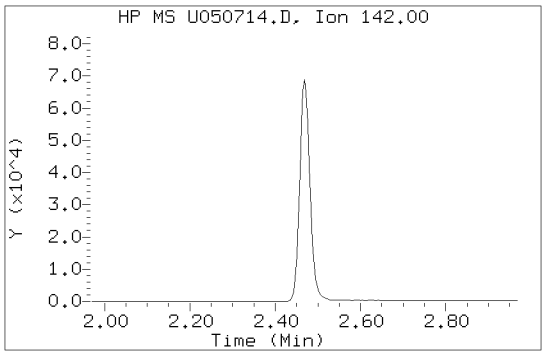
BEFORE

MASS
142
AREA
135877
HEIGHT
69102
07-May-2024
16:55
firat
tastan



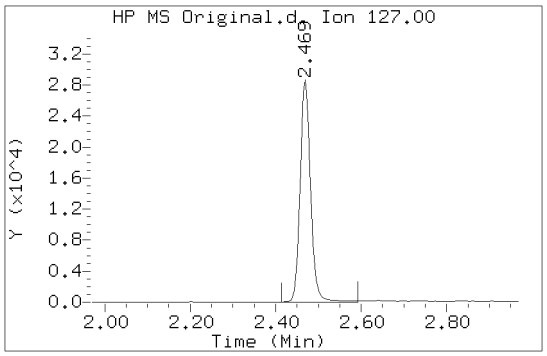
AFTER

MASS
142
AREA
135877
HEIGHT
69102
28-May-2024
11:08
firat
tasta



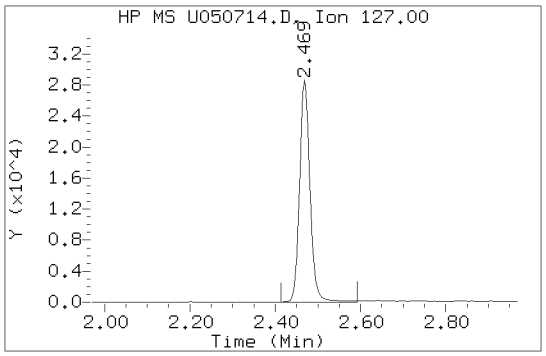
BEFORE

MASS
127
AREA
49763
HEIGHT
28656
07-May-2024
16:55
firat
tastan



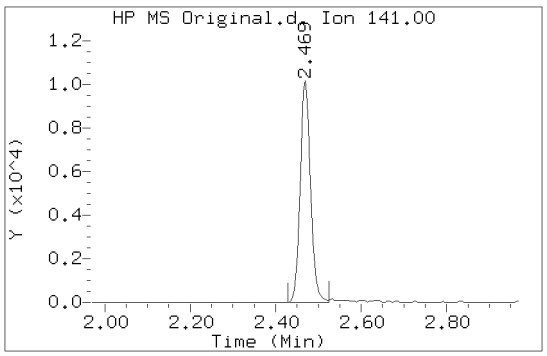
AFTER

MASS
127
AREA
49763
HEIGHT
28656
28-May-2024
11:08
firat
tasta



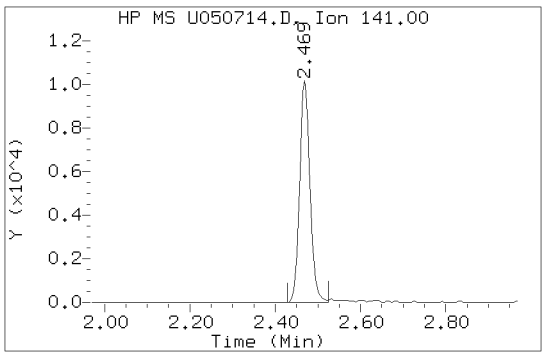
BEFORE

MASS
141
AREA
17435
HEIGHT
10169
07-May-2024
16:55
firat
tastan



AFTER

MASS
141
AREA
17435
HEIGHT
10169
28-May-2024
11:08
firat
tasta

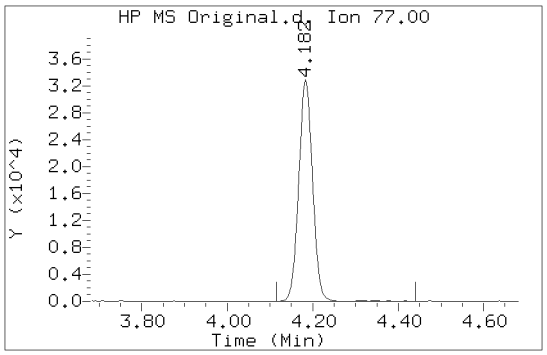


2,2-Dichloropropane (594-20-7)

Reason Code:

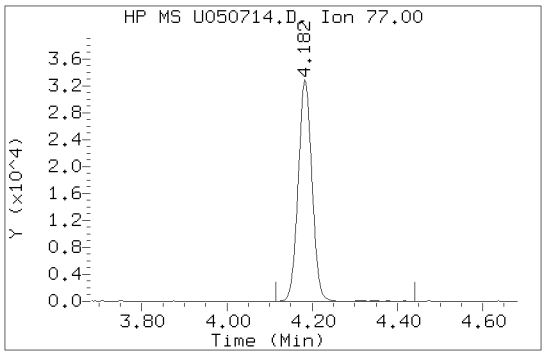
BEFORE

MASS
77
AREA
75121
HEIGHT
32912
07-May-2024
16:55
firat
tastan



AFTER

MASS
77
AREA
75121
HEIGHT
32912
28-May-2024
11:08
firat
tasta



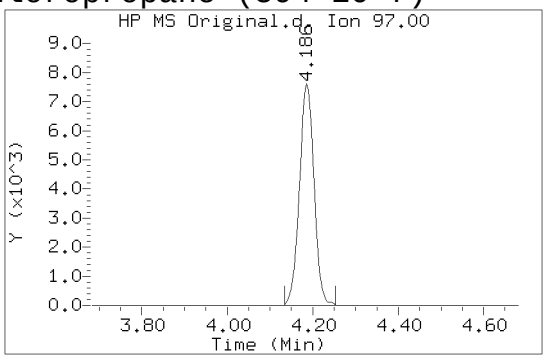
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

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

Reason Code:

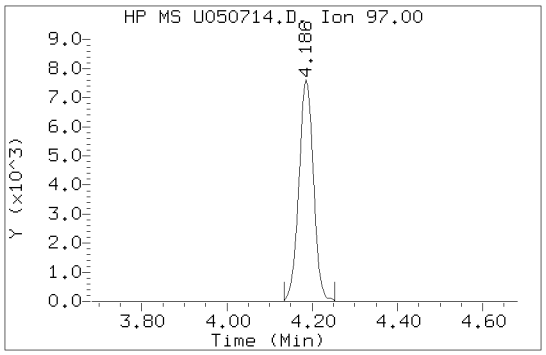
BEFORE

MASS
97
AREA
18308
HEIGHT
7619
07-May-2024
16:55
firat
tastan



AFTER

MASS
97
AREA
18308
HEIGHT
7619
28-May-2024
11:08
firat
tasta

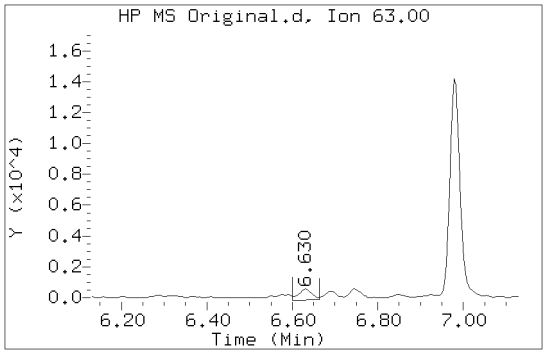


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

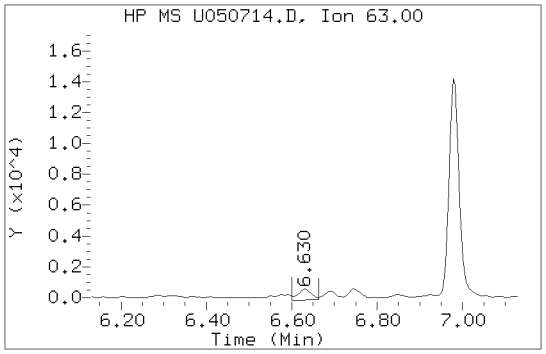
BEFORE

MASS
63
AREA
1629
HEIGHT
728
07-May-2024
16:55
firat
tastan



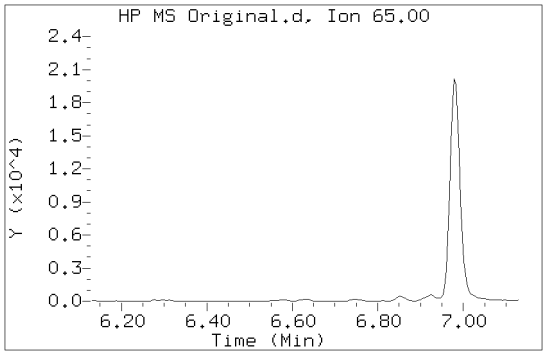
AFTER

MASS
63
AREA
1629
HEIGHT
728
28-May-2024
11:08
firat
tasta



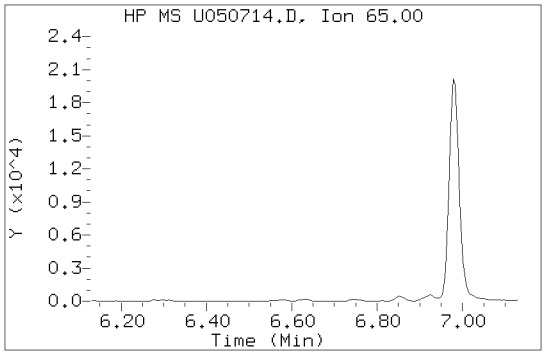
BEFORE

MASS
65
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



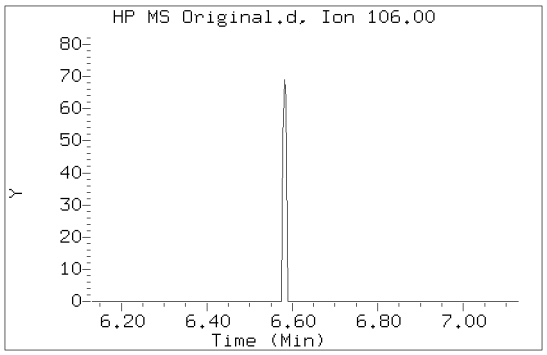
AFTER

MASS
65
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



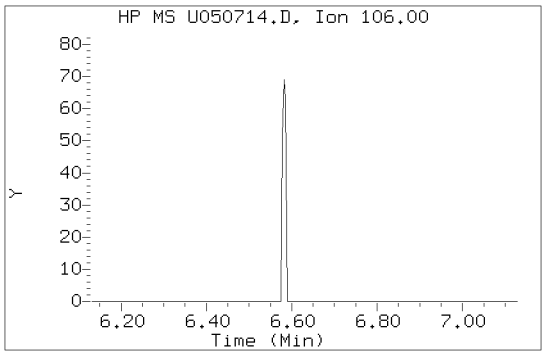
BEFORE

MASS
106
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
106
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



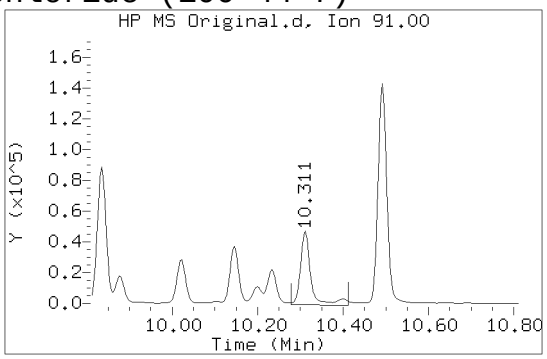
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Benzyl Chloride (100-44-7)

Reason Code:

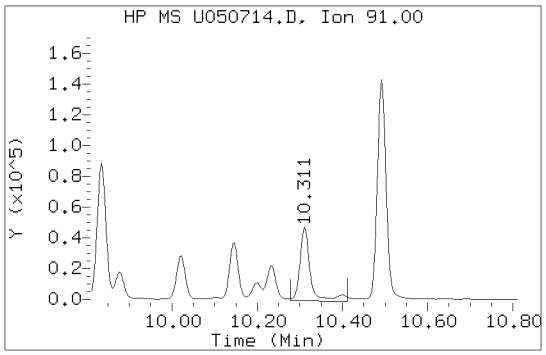
BEFORE

MASS
91
AREA
84492
HEIGHT
48137
07-May-2024
16:55
firat
tastan



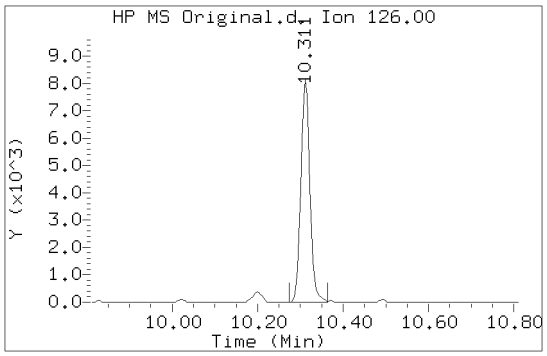
AFTER

MASS
91
AREA
84492
HEIGHT
48137
28-May-2024
11:08
firat
tasta



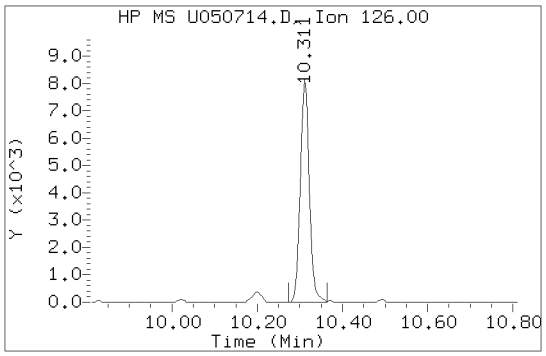
BEFORE

MASS
126
AREA
12207
HEIGHT
8130
07-May-2024
16:55
firat
tastan



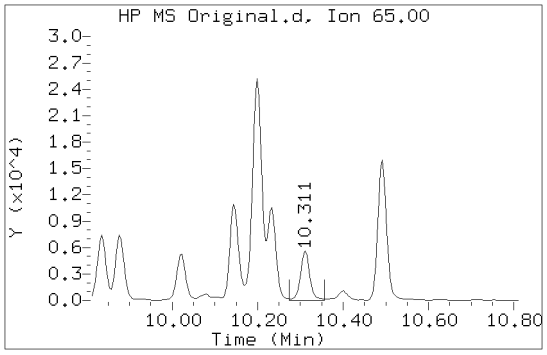
AFTER

MASS
126
AREA
12207
HEIGHT
8130
28-May-2024
11:08
firat
tasta



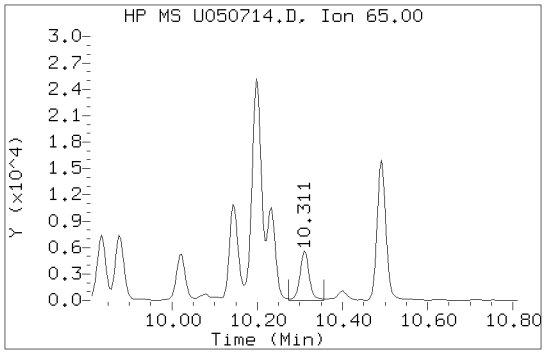
BEFORE

MASS
65
AREA
8669
HEIGHT
5613
07-May-2024
16:55
firat
tastan



AFTER

MASS
65
AREA
8669
HEIGHT
5613
28-May-2024
11:08
firat
tasta

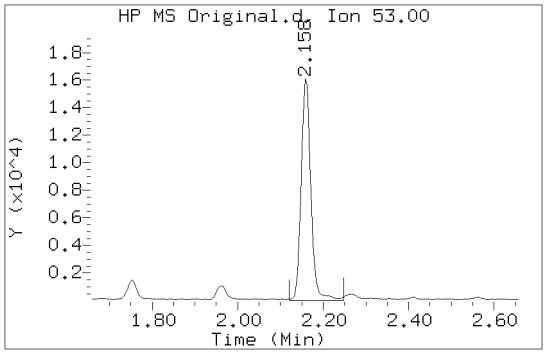


Chloroprene (126-99-8)

Reason Code:

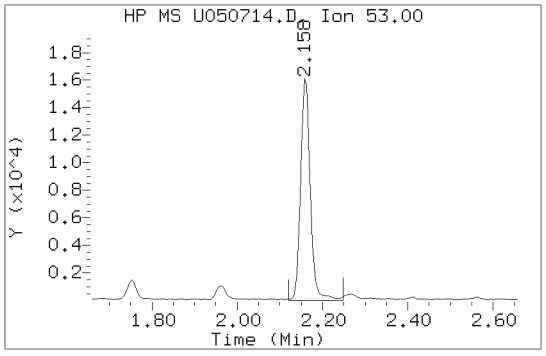
BEFORE

MASS
53
AREA
26008
HEIGHT
16094
07-May-2024
16:55
firat
tastan



AFTER

MASS
53
AREA
26008
HEIGHT
16094
28-May-2024
11:08
firat
tasta



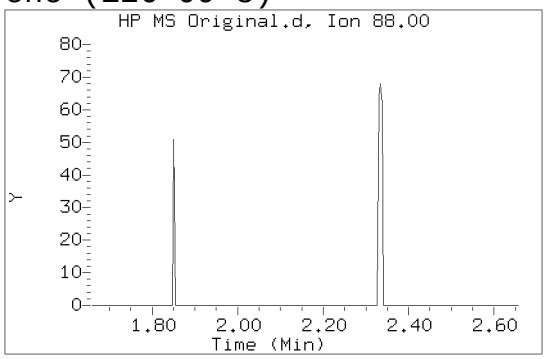
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240507.b\U050714.D
Inj Date : 07-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

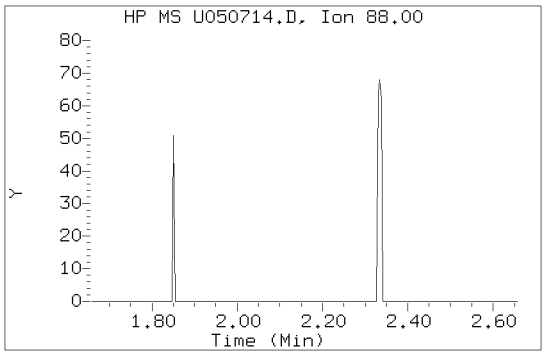
BEFORE

MASS
88
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta

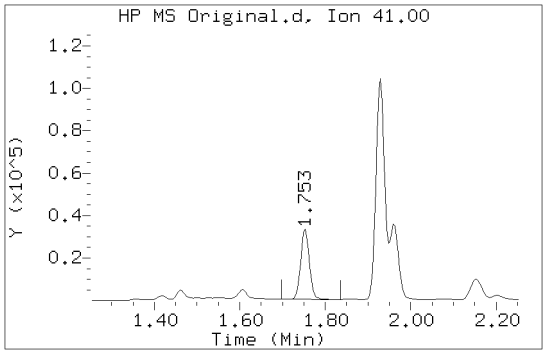


Isobutylene (115-11-7)

Reason Code:

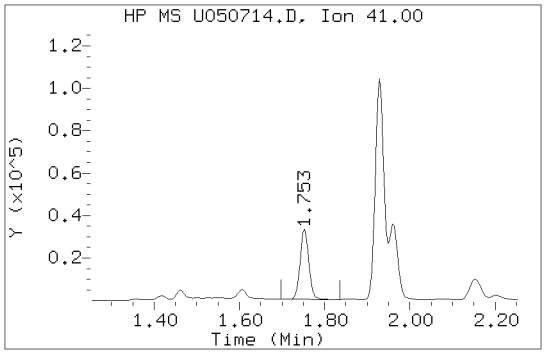
BEFORE

MASS
41
AREA
46988
HEIGHT
32981
07-May-2024
16:55
firat
tastan



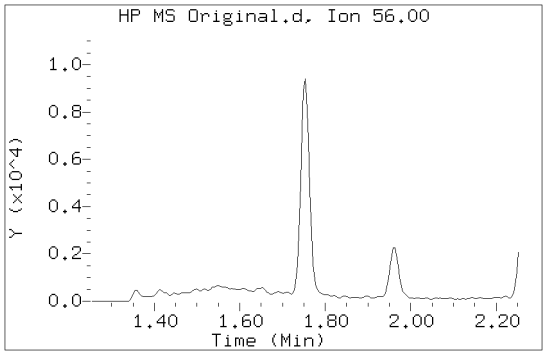
AFTER

MASS
41
AREA
46988
HEIGHT
32981
28-May-2024
11:08
firat
tasta



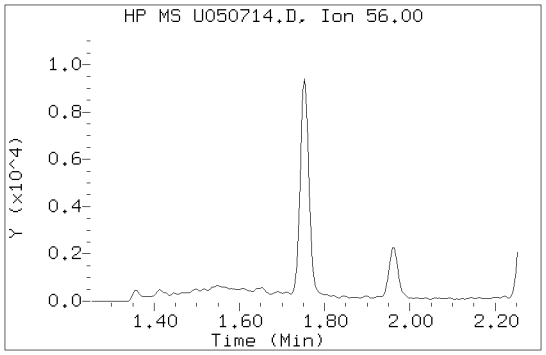
BEFORE

MASS
56
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



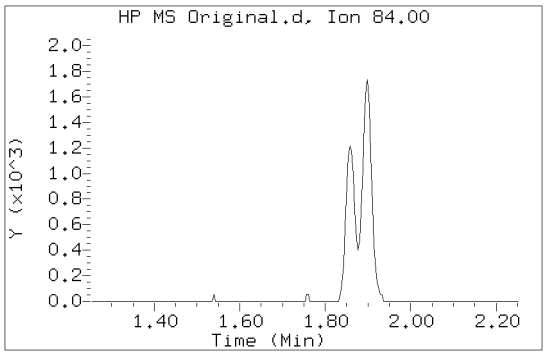
AFTER

MASS
56
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



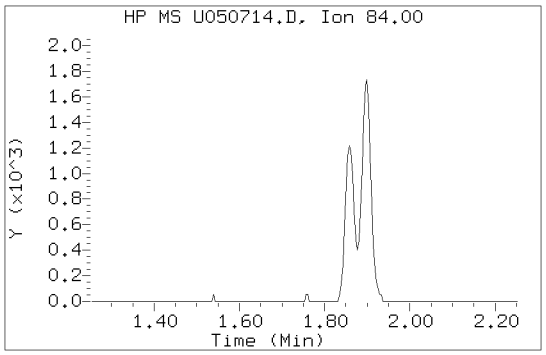
BEFORE

MASS
84
AREA
0
HEIGHT
0
07-May-2024
16:55
firat
tastan



AFTER

MASS
84
AREA
0
HEIGHT
0
28-May-2024
11:08
firat
tasta



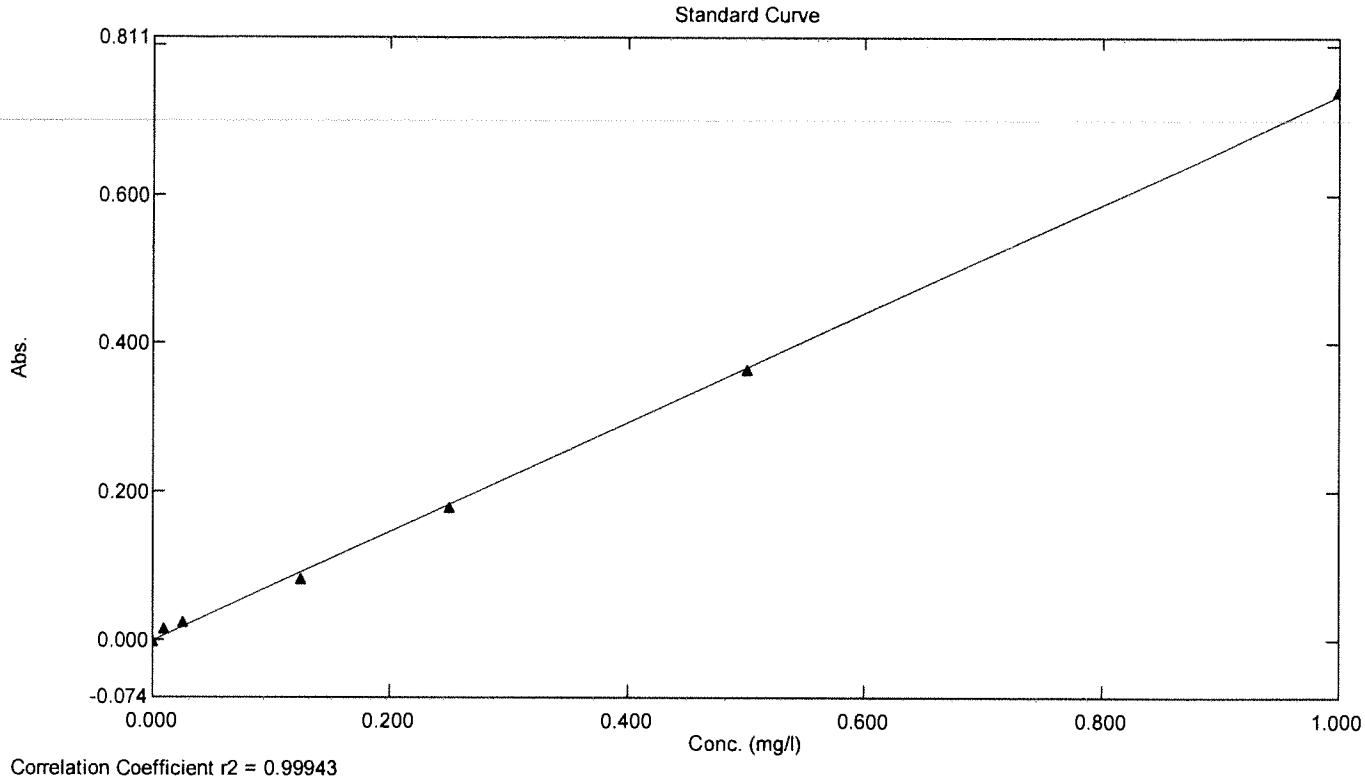
HS24050531 Wetchem Cr6_W_7196_DOD

ALS WO# HS24050531

Standard Table Report

06/14/2024 12:02:10 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



Correlation Coefficient r2 = 0.99943

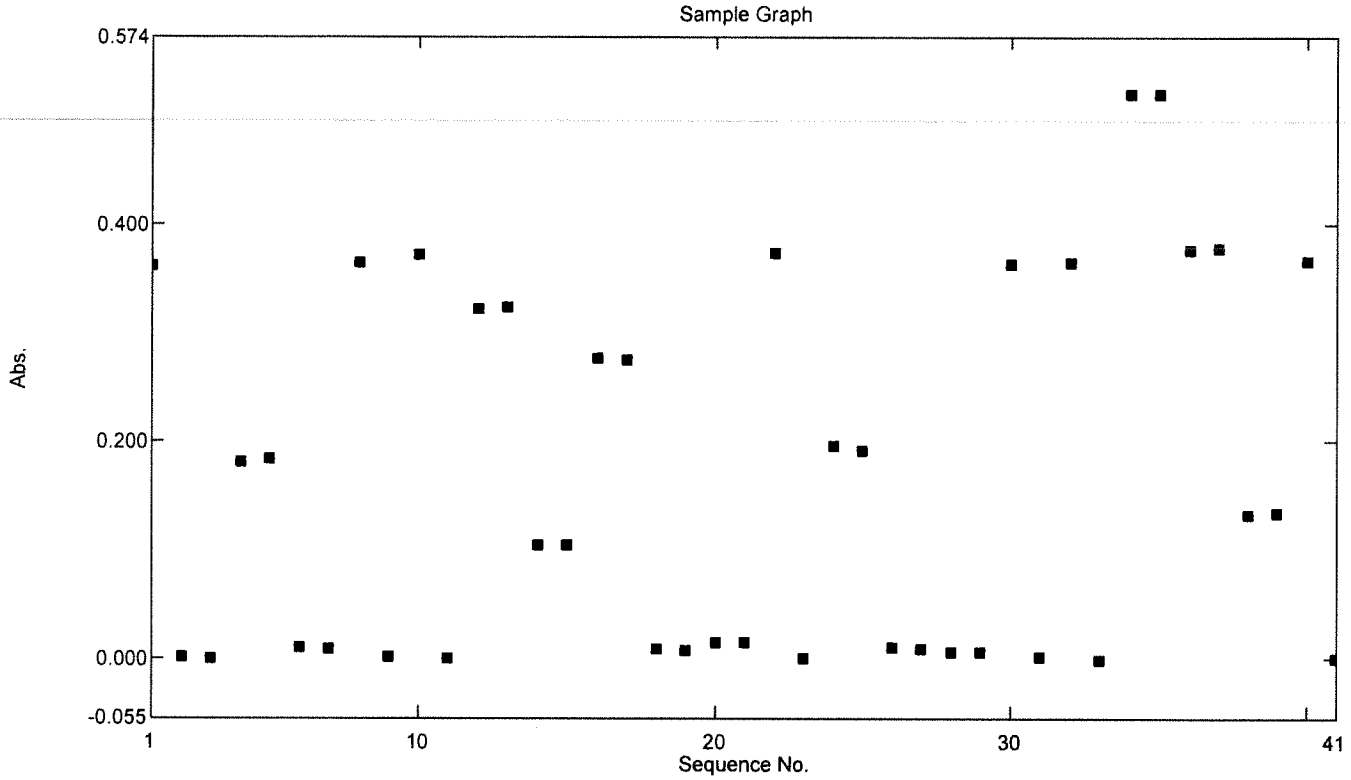
Standard Table

	Sample ID	Type	Ex	Conc	WL540.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.016	1.000	
3	STD3	Standard		0.025	0.024	1.000	
4	STD4	Standard		0.125	0.082	1.000	
5	STD5	Standard		0.250	0.179	1.000	
6	STD6	Standard		0.500	0.363	1.000	
7	STD7	Standard		1.000	0.737	1.000	05/22/2024
8							

Sample Table Report

06/14/2024 12:00:38 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



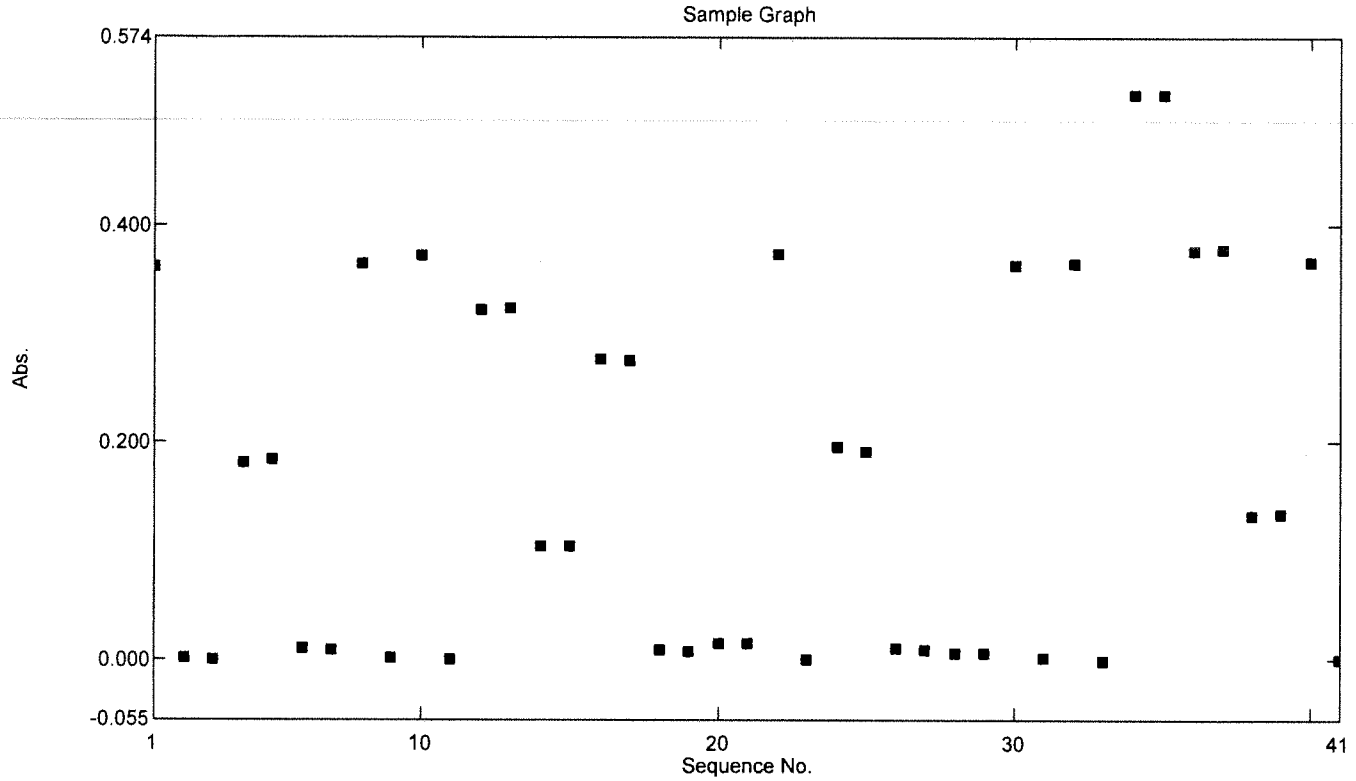
Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
1	CCV	Unknown		05/09/2024	10:10:23 AM	0.493	0.362	325102201 WC-19
2	CCB	Unknown		05/09/2024	10:11:01 AM	0.002	0.001	3100608622
3	MBLK	Unknown		05/09/2024	10:11:16 AM	0.000	0.000	325102505 WC-29
4	LCS	Unknown		05/09/2024	10:14:17 AM	0.247	0.181	325102202 WC-19
5	LCSD	Unknown		05/09/2024	10:14:37 AM	0.250	0.184	
6	HS24050502.23	Unknown		05/09/2024	10:15:36 AM	0.013	0.009	
7	HS24050502.23	Unknown		05/09/2024	10:16:20 AM	0.012	0.008	0.001
8	CCV2	Unknown		05/09/2024	10:17:14 AM	0.497	0.364	
9	CCB2	Unknown		05/09/2024	10:17:26 AM	0.001	0.001	
10	CCV3	Unknown		05/09/2024	11:55:27 AM	0.508	0.373	
11	CCB3	Unknown		05/09/2024	11:55:45 AM	-0.001	-0.001	
12	HS24050523.08	Unknown		05/09/2024	11:56:35 AM	0.440	0.323	DF:10X
13	HS24050523.08BKG	Unknown		05/09/2024	11:57:07 AM	0.441	0.323	DF:10X, -0.001
14	HS24050523.09	Unknown		05/09/2024	11:57:49 AM	0.142	0.104	DF:10X
15	HS24050523.09BKG	Unknown		05/09/2024	11:58:05 AM	0.143	0.105	DF:10X, -0.001
16	HS24050523.10	Unknown		05/09/2024	11:59:05 AM	0.378	0.277	
17	HS24050523.10BKG	Unknown		05/09/2024	11:59:24 AM	0.376	0.276	0.002
18	HS24050523.11	Unknown		05/09/2024	12:00:16 PM	0.011	0.008	DF:2X
19	HS24050523.11BKG	Unknown		05/09/2024	12:00:38 PM	0.010	0.008	DF:2X, 0.001

Sample Table Report

06/14/2024 12:00:38 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



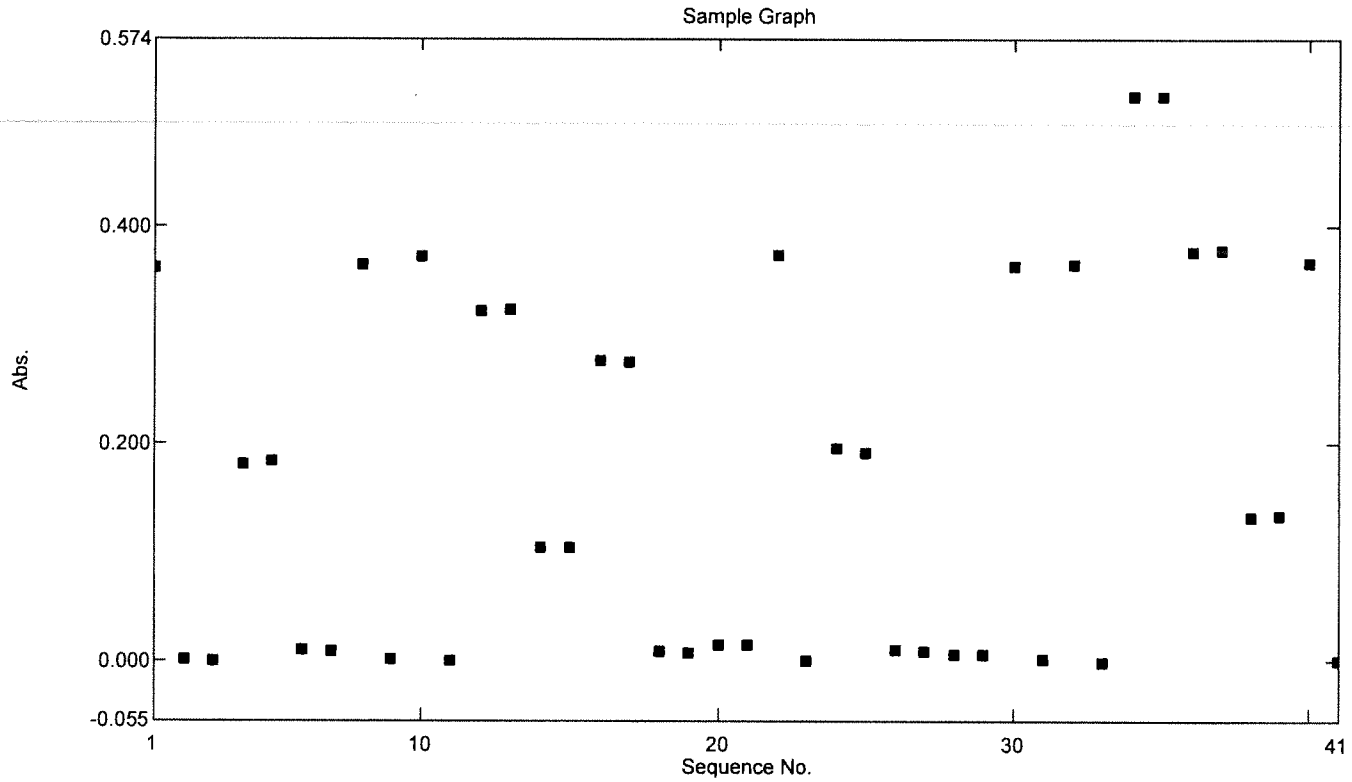
Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
20	HS24050523.12	Unknown		05/09/2024	12:02:49 PM	0.019	0.014	
21	HS24050523.12BKG	Unknown		05/09/2024	12:03:36 PM	0.019	0.014	0.000
22	CCV4	Unknown		05/09/2024	12:04:29 PM	0.510	0.374	
23	CCB4	Unknown		05/09/2024	12:04:55 PM	-0.000	-0.000	
24	HS24050523.12MS	Unknown		05/09/2024	12:06:26 PM	0.267	0.196	
25	HS24050523.12MSD	Unknown		05/09/2024	12:07:51 PM	0.261	0.192	
26	HS24050531.01	Unknown		05/09/2024	12:10:28 PM	0.014	0.010	
27	HS24050531.01BKG	Unknown		05/09/2024	12:10:57 PM	0.012	0.009	0.002
28	HS24050529.01	Unknown		05/09/2024	12:15:41 PM	0.008	0.006	
29	HS24050529.01BKG	Unknown		05/09/2024	12:16:09 PM	0.007	0.005	0.001
30	CCV5	Unknown		05/09/2024	12:16:40 PM	0.495	0.363	
31	CCB5	Unknown		05/09/2024	12:17:43 PM	0.000	0.000	
32	CCV6	Unknown		05/09/2024	04:49:43 PM	0.497	0.364	
33	CCB6	Unknown		05/09/2024	04:50:04 PM	-0.003	-0.003	
34	TERRACON 13	Unknown		05/09/2024	04:54:31 PM	0.711	0.522	DF:2X
35	TERRACON 13BKG	Unknown		05/09/2024	04:54:51 PM	0.710	0.521	DF:2X, 0.001
36	TERRACON 14	Unknown		05/09/2024	04:55:40 PM	0.513	0.376	DF:2X
37	TERRACON14BKG	Unknown		05/09/2024	04:55:59 PM	0.515	0.378	DF:2X, -0.002
38	TERRACON 15	Unknown		05/09/2024	04:57:12 PM	0.181	0.133	DF:2X

Sample Table Report

06/14/2024 12:00:38 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\05092024CR6_W.pho



Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
39	TERRACON 15BKG	Unknown		05/09/2024	04:57:40 PM	0.181	0.133	DF:2X, 0.000
40	CCV7	Unknown		05/09/2024	04:58:58 PM	0.500	0.367	
41	CCB7	Unknown		05/09/2024	04:59:14 PM	-0.001	-0.001	
42								

HS24050531 - ME - ICP_W_DOD

ALS WO# HS24050531

ALS Houston, US Date: 14-Jun-24

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc. Instrument:ICPMS06
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US

Date: 14-Jun-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531
Start Date: 15-May-2024 End Date: 15-May-2024

Run ID:ICPMS06_466763
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_466763_Tune	1	15-May-2024 00:00	ICPMS06_466763_Tune_1	
CAL BLK	1	15-May-2024 11:22	010CALB.d_8010626	AG BA PB SE
2/10/200	1	15-May-2024 11:24	011CALS.d_8010627	AG BA PB SE
5/25/500	1	15-May-2024 11:26	012CALS.d_8010628	AG BA PB SE
10/50/100	1	15-May-2024 11:28	013CALS.d_8010629	AG BA PB SE
100/500/10K	1	15-May-2024 11:30	014CALS.d_8010630	AG BA PB SE
200/1000/20K	1	15-May-2024 11:32	015CALS.d_8010631	AG BA PB SE
100/500/10K	1	15-May-2024 11:41	018CALS.d_8010634	AG BA PB SE
LLICV5	1	15-May-2024 11:48	021LCV5.d_8010637	AG BA PB SE
LLICV2	1	15-May-2024 11:50	022LCV2.d_8010638	AG BA PB SE
ICB	1	15-May-2024 11:52	023_ICB.d_8010639	AG BA PB SE
ICV	1	15-May-2024 11:54	024_ICV.d_8010640	AG BA PB SE
ICSA	1	15-May-2024 12:01	026ICSA.d_8010669	AG BA PB SE
ICSAB	1	15-May-2024 12:03	027ICSB.d_8010670	AG BA PB SE
CCV 1	1	15-May-2024 12:10	030_CCV.d_8010770	AG BA PB SE
CCB 1	1	15-May-2024 12:12	031_CCB.d_8010771	AG BA PB SE
MBLK-211834	1	15-May-2024 12:14	032SMPL.d_8010772	AG BA PB SE
LCS-211834	1	15-May-2024 12:16	033SMPL.d_8010773	AG BA PB SE
ZZZZZZSD	5	15-May-2024 12:20	035SMPL.d_8010775	AG BA PB SE
ZZZZZZMS	1	15-May-2024 12:22	036SMPL.d_8010776	AG BA PB SE
ZZZZZZMSD	1	15-May-2024 12:24	037SMPL.d_8010777	AG BA PB SE
ZZZZZZPDS	1	15-May-2024 12:26	038SMPL.d_8010778	AG BA PB SE
LH18/24-SP650_050824	1	15-May-2024 12:27	039SMPL.d_8010779	AG BA PB SE
CCV 2	1	15-May-2024 12:31	041_CCV.d_8010781	AG BA PB SE
CCB 2	1	15-May-2024 12:33	042_CCB.d_8010782	AG BA PB SE

ALS Houston, US Date: 14-Jun-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Run ID: ICPMS06_466763
Instrument: ICPMS06
Method: SW6020A

ICV	Date: 15-May-2024 11:54		Seq: 8010640	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	102.213	102	90-110	
Lead	100	106.253	106	90-110	
Selenium	100	105.882	106	90-110	
Silver	100	106.141	106	90-110	

CCV1	Date: 15-May-2024 12:10		Seq: 8010770	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	100.731	101	90-110	
Lead	100	104.138	104	90-110	
Selenium	100	105.059	105	90-110	
Silver	100	107.968	108	90-110	

CCV2	Date: 15-May-2024 12:31		Seq: 8010781	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	98.772	99	90-110	
Lead	100	102.747	103	90-110	
Selenium	100	101.909	102	90-110	
Silver	100	104.108	104	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Run ID: ICPMS06_466763
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 15-May-2024 11:52		Seq: 8010639	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	5	1.9	5	U	
Lead	5	0.6	5	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB1	Date: 15-May-2024 12:12		Seq: 8010771	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

MBLK-211834	Date: 15-May-2024 12:14		Seq: 8010772	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	5	1.9	5	U	
Lead	5	0.6	5	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB2	Date: 15-May-2024 12:33		Seq: 8010782	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

ALS Houston, US Date: 14-Jun-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS06_466763
Project: Longhorn GW Treatment Plant Monthly Effluent Samples Instrument:ICPMS06
WorkOrder: HS24050531 Method:SW6020A

ICSA	Date: 15-May-2024 12:01	Seq: 8010669	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Barium		0.72	0	
Lead		0.848	0	
Selenium		0.559	0	
Silver		0.322	0	

ICSAB	Date: 15-May-2024 12:03	Seq: 8010670	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Barium	100	106.6	107	
Lead	100	108.4	108	
Selenium	100	111.9	112	
Silver	100	102.4	102	

ALS Houston, US Date: 14-Jun-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Date Analyzed: 15-May-2024 12:24
Date Extracted: 13-May-2024 10:00
Units: ug/L

Matrix Spike: HS24050529-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Barium	246.7	284.5	50.00	75.6	296.4	50.00	99.5	86-114	4.11	20
Lead	5.000	48.91	50.00	97.5	51.17	50.00	102	88-115	4.53	20
Selenium	5.000	48.35	50.00	95.7	48.95	50.00	96.9	80-120	1.25	20
Silver	5.000	46.66	50.00	93.1	49.04	50.00	97.8	85-116	4.97	20

ALS Houston, US Date: 14-Jun-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Date Analyzed: 15-May-2024 12:26
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: HS24050529-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Barium	246.7	328.5	100	82	80-120
Lead	0	98.66	100	99	80-120
Selenium	0	97.24	100	97	80-120
Silver	0	93.18	100	93	80-120

ALS Houston, US Date: 14-Jun-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Date Analyzed: 15-May-2024 12:16
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: LCS-211834 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Barium	50	46.6	93	86-114
Lead	50	47.72	95	88-115
Selenium	50	45.09	90	80-120
Silver	50	49.59	99	85-116

ALS Houston, US

Date: 14-Jun-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24050531

Date Analyzed: 15-May-2024 12:20
Date Extracted: 13-May-2024 10:00
Units: ug/L

Lab Sample ID: HS24050529-01SD
Client Sample ID:

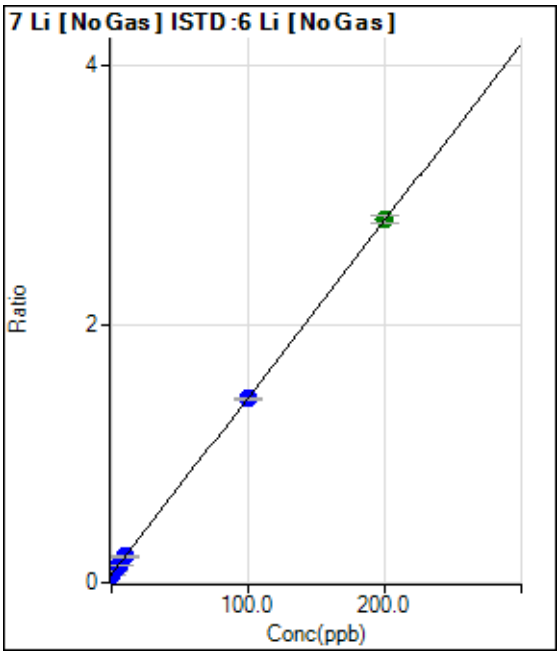
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Barium	246.7		239.9		3	
Lead	0	U	0	U	0	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	

Calibration for 235_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 10:15:22 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

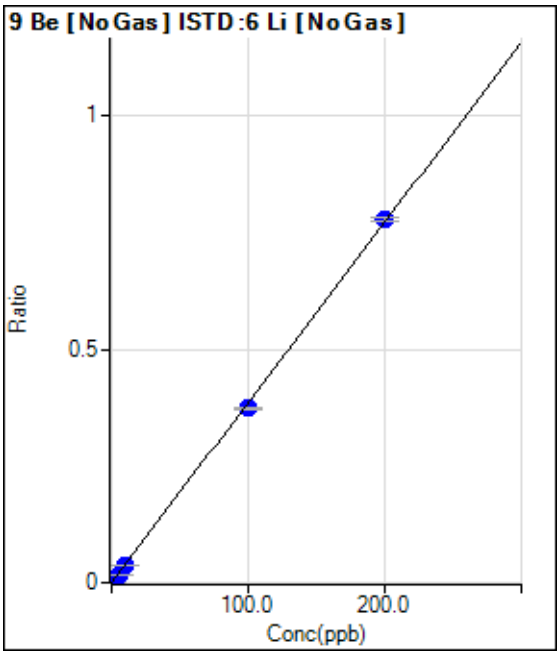
Level	Standard Data File	Sample Name	Acq. Date-Time
1	228CALB.d	CAL BLK	5/15/2024 10:01:12 PM
2	229CALS.d	2/10/200	5/15/2024 10:03:08 PM
3	230CALS.d	5/25/500	5/15/2024 10:05:03 PM
4	231CALS.d	10/50/100	5/15/2024 10:06:59 PM
5	232CALS.d	100/500/10K	5/15/2024 10:08:54 PM
6	233CALS.d	200/1000/20K	5/15/2024 10:10:46 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19430.13	0.0646	P	1.8
2	☐	2.000	1.965	27124.43	0.0915	P	2.4
3	☐	5.000	4.924	38632.87	0.1320	P	2.0
4	☐	10.000	9.981	58375.29	0.2012	P	0.4
5	☐	100.000	99.156	400703.90	1.4218	P	1.0
6	☐	200.000	200.425	750152.75	2.8078	A	2.1

y = 0.0137 * x + 0.0646
R = 1.0000
DL = 0.2494
BEC = 4.722

Weight: <None>
Min Conc: <None>

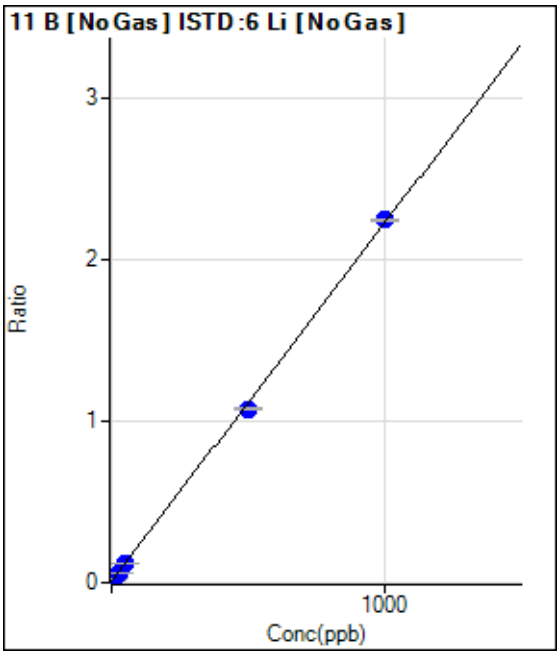


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	86.6
2	☐	2.000	1.876	2156.85	0.0073	P	1.3
3	☐	5.000	4.726	5349.40	0.0183	P	2.2
4	☐	10.000	9.707	10882.62	0.0375	P	1.6
5	☐	100.000	97.116	105683.50	0.3750	P	1.1
6	☐	200.000	201.465	207841.42	0.7779	P	0.9

y = 0.0039 * x + 3.3409E-005
R = 0.9999
DL = 0.02248
BEC = 0.008653

Weight: <None>
Min Conc: <None>

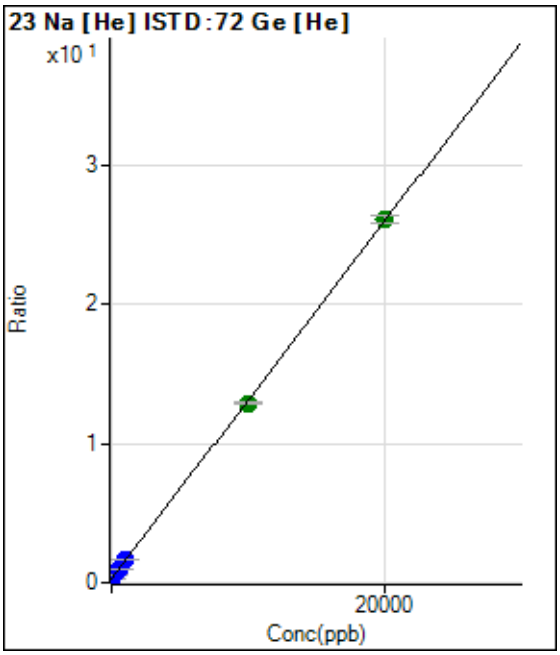
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2503.58	0.0083	P	2.8
2	☐	10.000	9.484	8702.75	0.0294	P	2.2
3	☐	25.000	23.833	17904.81	0.0612	P	1.9
4	☐	50.000	48.094	33364.60	0.1150	P	0.7
5	☐	500.000	480.500	302741.63	1.0743	P	1.3
6	☐	1000.000	1009.879	600784.07	2.2486	P	0.6

y = 0.0022 * x + 0.0083
R = 0.9997
DL = 0.3136
BEC = 3.754

Weight: <None>
Min Conc: <None>

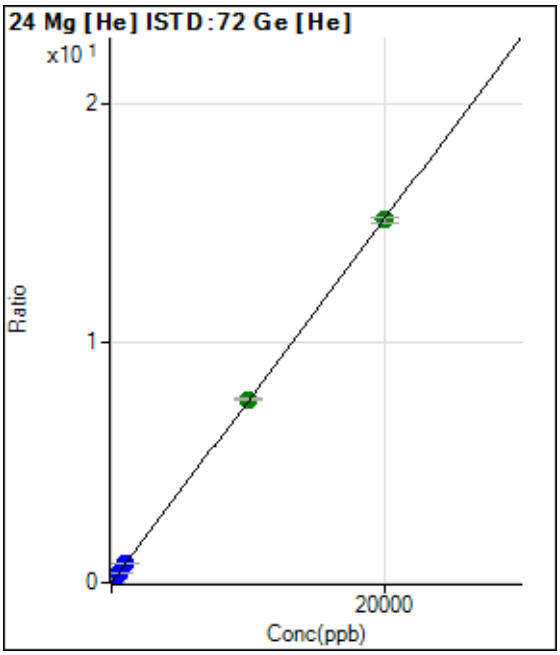


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92535.66	0.2817	P	1.1
2	☐	200.000	207.161	179934.25	0.5481	P	0.5
3	☐	500.000	525.986	315909.62	0.9581	P	1.5
4	☐	1000.000	1064.457	543877.96	1.6505	P	0.2
5	☐	10000.000	9828.429	4228570.25	12.9196	A	1.6
6	☐	20000.000	20081.842	8349449.04	26.1039	A	2.1

y = 0.0013 * x + 0.2817
R = 0.9999
DL = 7.298
BEC = 219.1

Weight: <None>
Min Conc: <None>

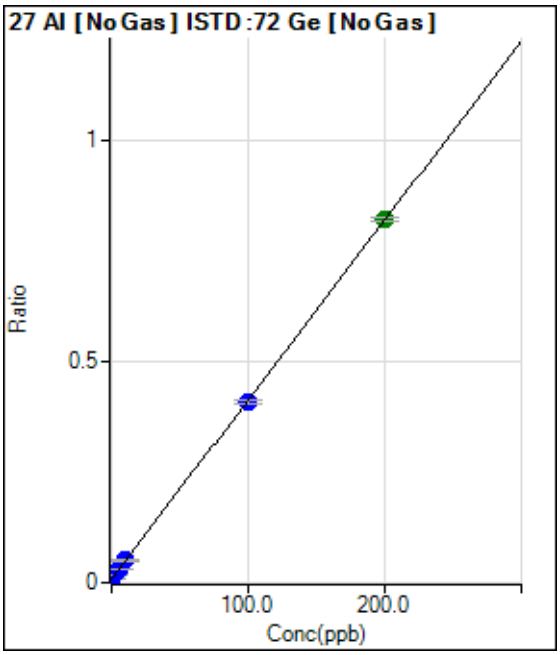
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0012	P	24.2
2	☐	200.000	215.783	54125.29	0.1649	P	2.0
3	☐	500.000	543.529	136314.08	0.4134	P	1.2
4	☐	1000.000	1102.289	275862.58	0.8371	P	0.6
5	☐	10000.000	10074.162	2500995.95	7.6409	A	0.8
6	☐	20000.000	19956.559	4841133.16	15.1352	A	1.3

y = 7.5835E-004 * x + 0.0012
R = 1.0000
DL = 1.175
BEC = 1.62

Weight: <None>
Min Conc: <None>

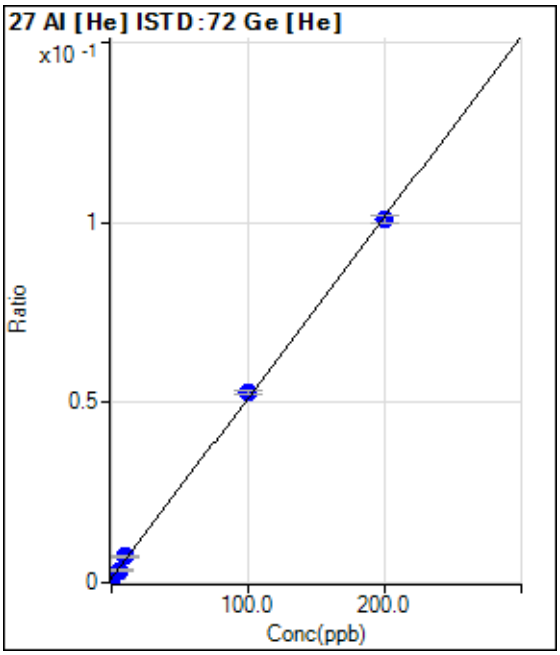


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11194.71	0.0079	P	2.9
2	☐	2.000	2.014	23099.40	0.0160	P	0.3
3	☐	5.000	5.151	41585.78	0.0287	P	2.3
4	☐	10.000	10.441	72244.08	0.0502	P	0.9
5	☐	100.000	99.253	595111.81	0.4100	P	2.0
6	☐	200.000	200.347	1152199.33	0.8196	A	1.2

y = 0.0041 * x + 0.0079
R = 1.0000
DL = 0.1713
BEC = 1.938

Weight: <None>
Min Conc: <None>

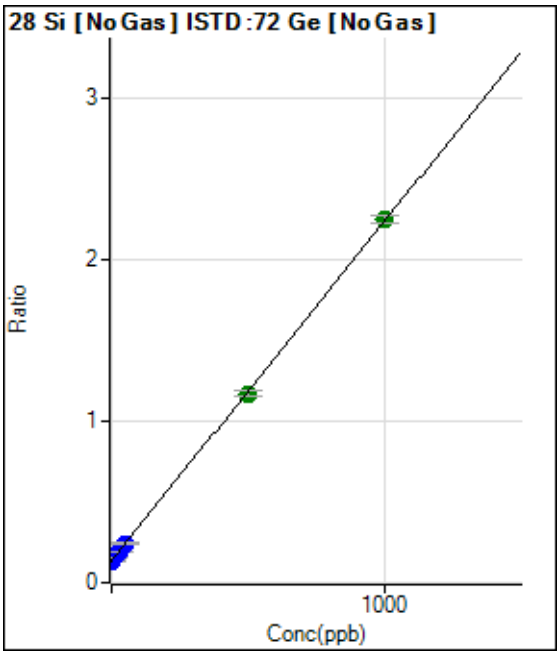
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.68	0.0012	P	11.7
2	☐	2.000	1.964	710.03	0.0022	P	3.6
3	☐	5.000	4.482	1130.07	0.0034	P	5.4
4	☐	10.000	12.094	2390.25	0.0072	P	6.4
5	☐	100.000	102.766	17274.30	0.0528	P	1.8
6	☐	200.000	198.526	32261.14	0.1008	P	2.2

y = 5.0205E-004 * x + 0.0012
R = 0.9998
DL = 0.8231
BEC = 2.344

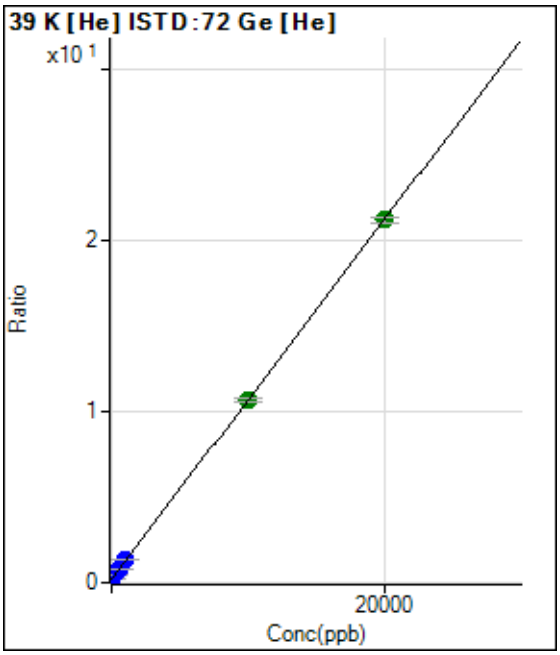
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194313.88	0.1363	P	1.6
2	☐	10.000	9.969	226693.58	0.1572	P	3.8
3	☐	25.000	24.584	272023.01	0.1879	P	2.4
4	☐	50.000	50.645	349342.67	0.2426	P	2.5
5	☐	500.000	492.071	1696192.84	1.1690	A	3.6
6	☐	1000.000	1003.943	3153622.66	2.2432	A	2.2

y = 0.0021 * x + 0.1363
R = 1.0000
DL = 3.049
BEC = 64.96

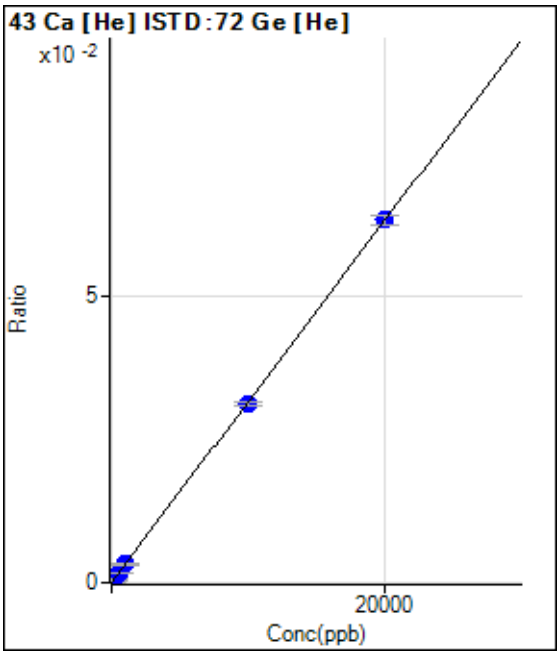
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61152.09	0.1862	P	1.3
2	☐	200.000	208.522	133123.73	0.4055	P	1.5
3	☐	500.000	535.329	247032.25	0.7492	P	0.7
4	☐	1000.000	1071.167	432596.39	1.3127	P	0.2
5	☐	10000.000	10023.278	3511174.32	10.7275	A	2.2
6	☐	20000.000	19983.834	6782562.82	21.2029	A	1.8

y = 0.0011 * x + 0.1862
R = 1.0000
DL = 6.71
BEC = 177

Weight: <None>
Min Conc: <None>

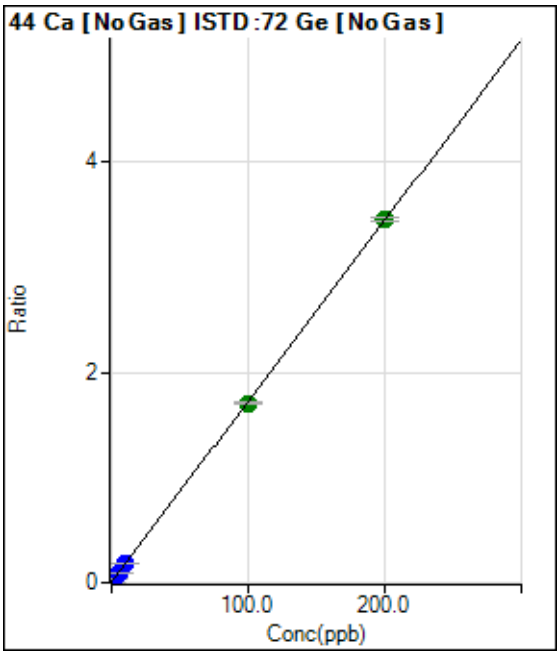


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	43.2
2	☐	200.000	151.817	170.00	0.0005	P	26.2
3	☐	500.000	536.247	570.02	0.0017	P	3.4
4	☐	1000.000	999.924	1050.06	0.0032	P	5.6
5	☐	10000.000	9884.340	10197.28	0.0312	P	2.4
6	☐	20000.000	20057.409	20208.39	0.0632	P	2.3

y = 3.1480E-006 * x + 4.0589E-005
R = 1.0000
DL = 16.73
BEC = 12.89

Weight: <None>
Min Conc: <None>

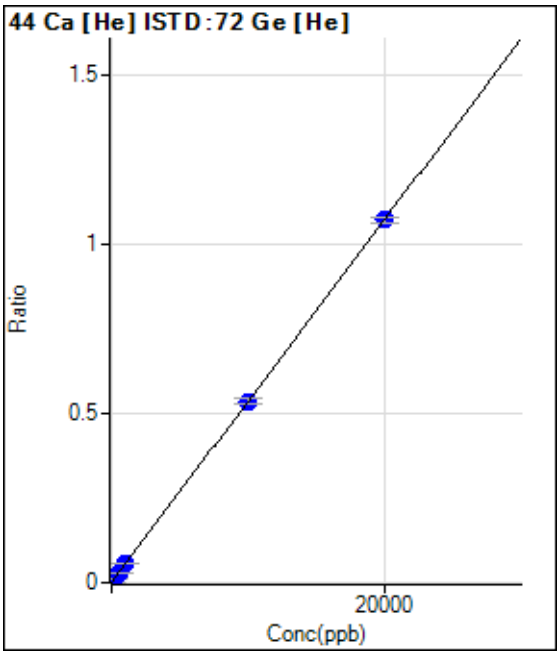
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9406.75	0.0066	P	4.1
2	☐	2.000	2.093	61299.87	0.0425	P	3.7
3	☐	5.000	5.284	140841.46	0.0973	P	3.1
4	☐	10.000	10.607	271685.01	0.1887	P	1.9
5	☐	100.000	99.071	2477962.41	1.7072	A	1.6
6	☐	200.000	200.426	4845513.99	3.4469	A	1.0

y = 0.0172 * x + 0.0066
R = 1.0000
DL = 0.04741
BEC = 0.3845

Weight: <None>
Min Conc: <None>

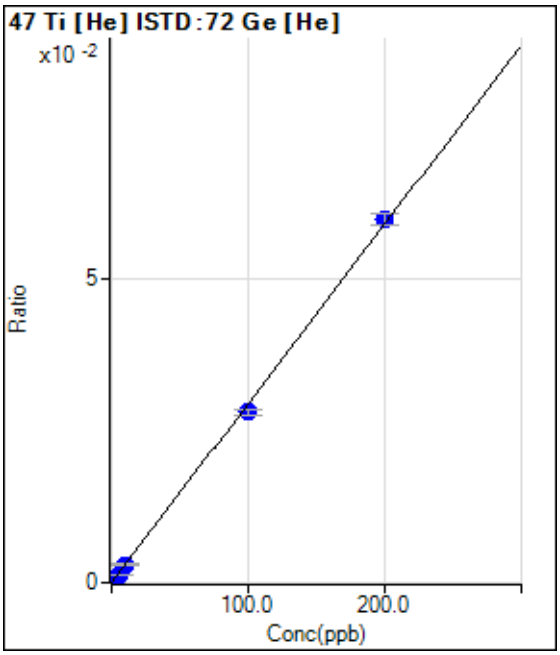


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0008	P	18.6
2	☐	200.000	200.139	3787.27	0.0115	P	6.4
3	☐	500.000	504.797	9193.23	0.0279	P	2.5
4	☐	1000.000	1010.548	18132.21	0.0550	P	1.7
5	☐	10000.000	10004.059	175915.72	0.5375	P	2.6
6	☐	20000.000	19997.322	343392.85	1.0736	P	1.9

y = 5.3646E-005 * x + 8.0167E-004
R = 1.0000
DL = 8.352
BEC = 14.94

Weight: <None>
Min Conc: <None>

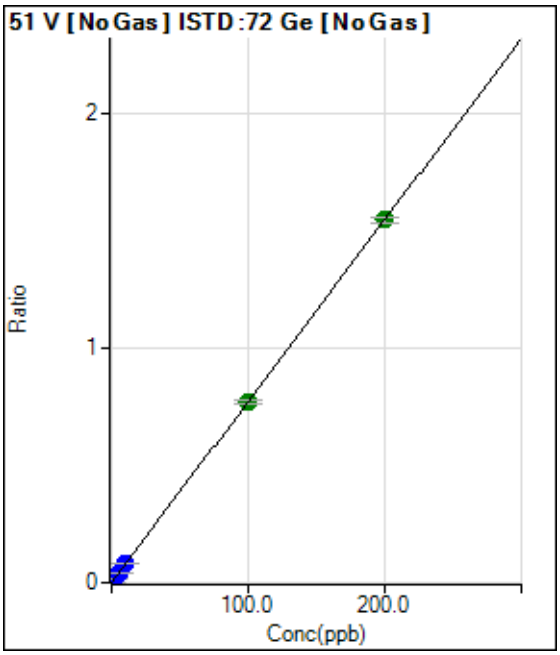
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	2.165	213.34	0.0007	P	27.8
3	☐	5.000	4.036	396.68	0.0012	P	1.2
4	☐	10.000	9.936	970.05	0.0029	P	12.6
5	☐	100.000	94.999	9193.22	0.0281	P	2.9
6	☐	200.000	202.526	19150.20	0.0599	P	3.2

y = 2.9555E-004 * x + 1.0224E-005
R = 0.9996
DL = 0.1797
BEC = 0.03459

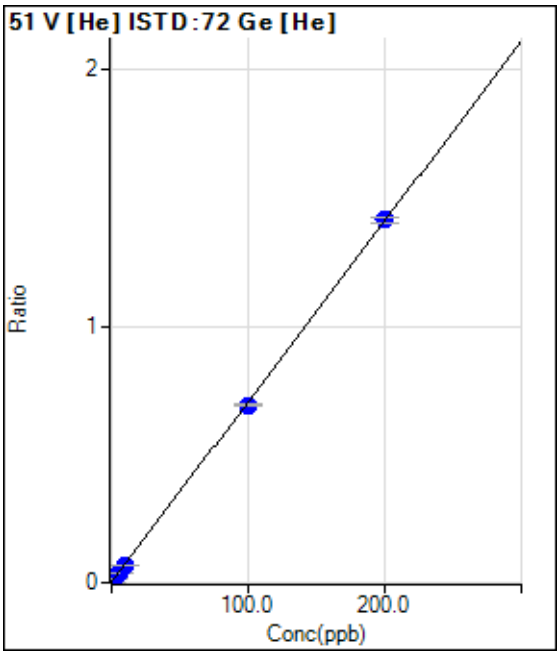
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.05	0.0000	P	1802.0
2	☐	2.000	1.937	21625.09	0.0150	P	6.1
3	☐	5.000	5.147	57578.16	0.0398	P	1.7
4	☐	10.000	10.543	117189.83	0.0814	P	3.2
5	☐	100.000	99.746	1116874.12	0.7696	A	2.8
6	☐	200.000	200.097	2170224.33	1.5439	A	1.7

y = 0.0077 * x + 4.5350E-005
R = 1.0000
DL = 0.3178
BEC = 0.005878

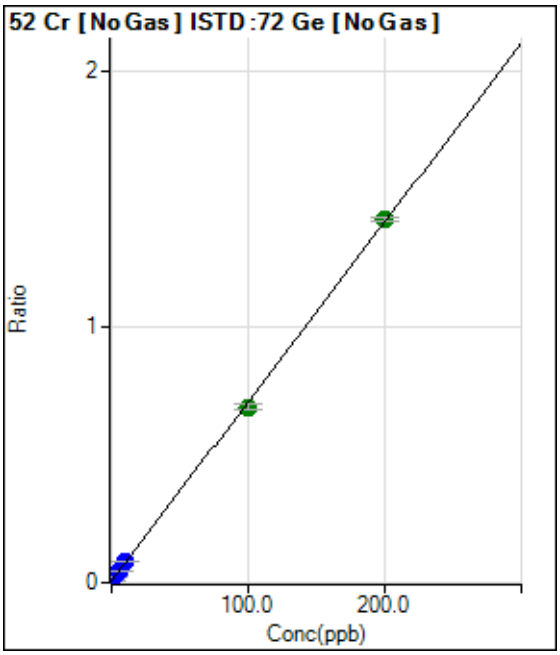
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	671.28	0.0020	P	36.7
2	☐	2.000	1.993	5275.52	0.0161	P	6.4
3	☐	5.000	4.896	12032.37	0.0365	P	2.5
4	☐	10.000	9.642	23018.67	0.0699	P	2.6
5	☐	100.000	98.107	226556.97	0.6922	P	1.1
6	☐	200.000	200.967	452856.97	1.4157	P	1.4

y = 0.0070 * x + 0.0020
R = 0.9999
DL = 0.3204
BEC = 0.2909

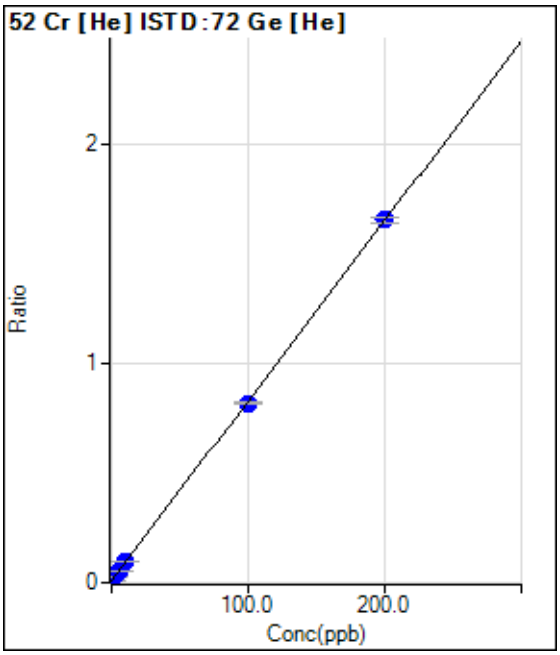
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9560.16	0.0067	P	2.1
2	☐	2.000	1.975	29595.60	0.0205	P	3.4
3	☐	5.000	5.110	61464.45	0.0425	P	3.2
4	☐	10.000	10.422	114690.69	0.0796	P	1.5
5	☐	100.000	97.176	996656.26	0.6867	A	2.5
6	☐	200.000	201.389	1990689.09	1.4160	A	1.1

y = 0.0070 * x + 0.0067
R = 0.9999
DL = 0.06102
BEC = 0.9584

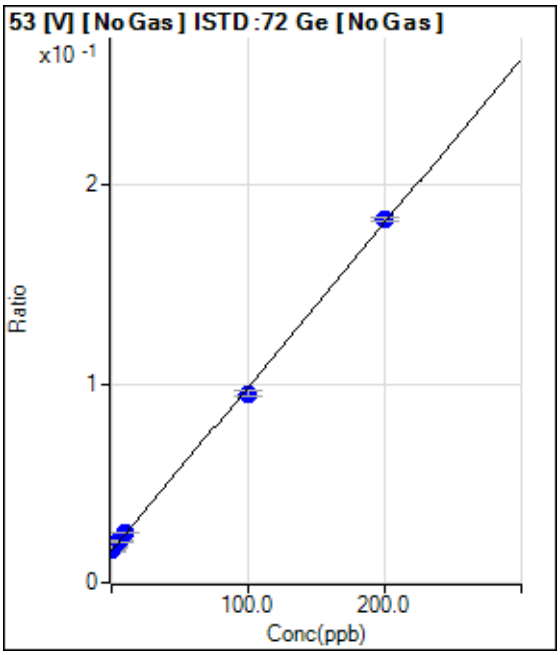
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3023.72	0.0092	P	3.0
2	☐	2.000	2.077	8619.52	0.0263	P	2.9
3	☐	5.000	5.060	16733.79	0.0507	P	0.9
4	☐	10.000	10.206	30641.31	0.0930	P	1.1
5	☐	100.000	98.772	268419.91	0.8201	P	1.5
6	☐	200.000	200.601	529715.61	1.6561	P	1.3

y = 0.0082 * x + 0.0092
R = 1.0000
DL = 0.1023
BEC = 1.121

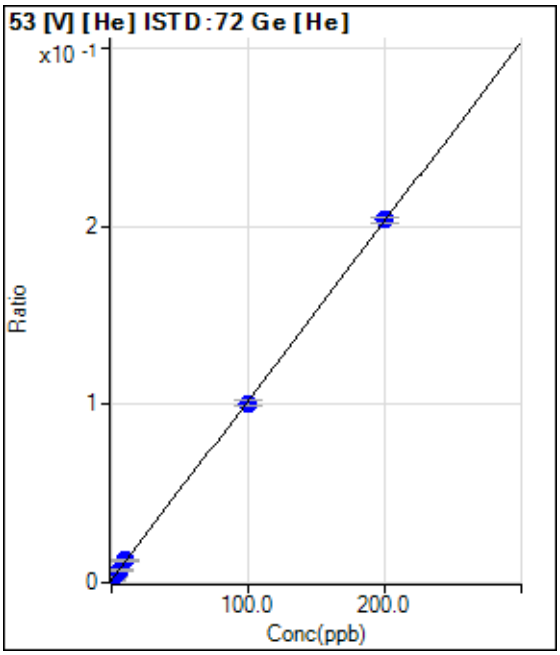
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22782.57	0.0160	P	2.2
2	☐	2.000	2.761	26322.24	0.0183	P	4.8
3	☐	5.000	6.124	30444.17	0.0210	P	4.0
4	☐	10.000	11.496	36679.48	0.0255	P	0.6
5	☐	100.000	96.096	138269.28	0.0953	P	2.5
6	☐	200.000	201.841	256577.26	0.1825	P	1.0

y = 8.2504E-004 * x + 0.0160
R = 0.9997
DL = 1.298
BEC = 19.37

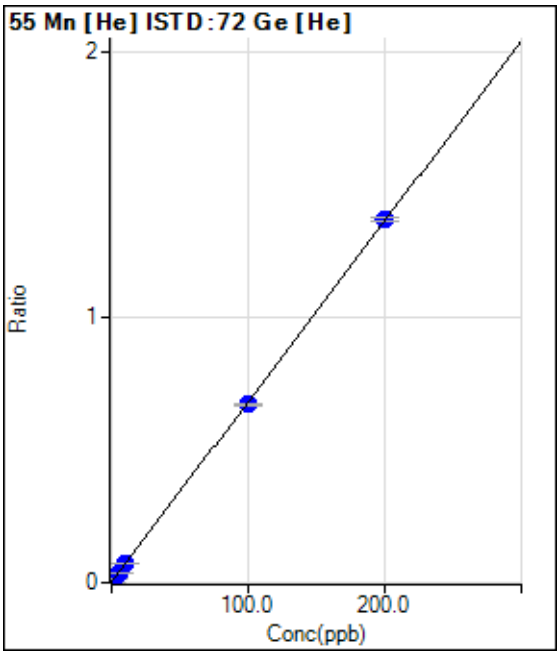
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	520.02	0.0016	P	12.9
2	☐	2.000	2.139	1226.74	0.0037	P	5.7
3	☐	5.000	5.212	2253.56	0.0068	P	6.7
4	☐	10.000	10.955	4160.71	0.0126	P	3.3
5	☐	100.000	98.366	32959.92	0.1007	P	2.9
6	☐	200.000	200.762	65215.28	0.2039	P	1.8

y = 0.0010 * x + 0.0016
R = 0.9999
DL = 0.6097
BEC = 1.57

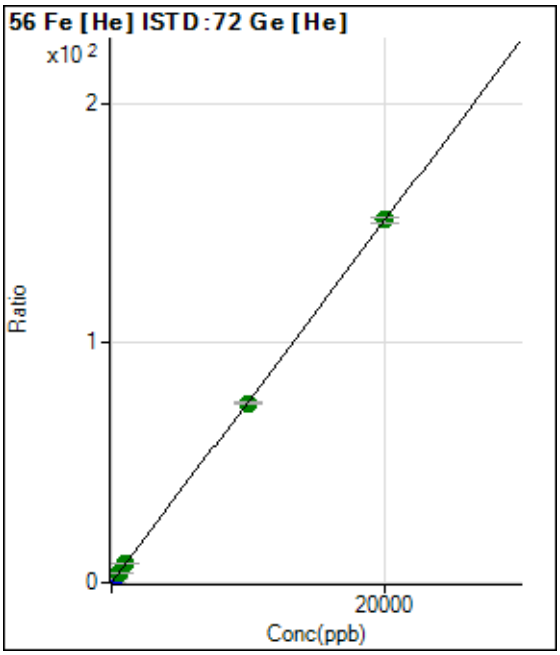
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	720.03	0.0022	P	3.5
2	☐	2.000	1.965	5107.70	0.0156	P	3.1
3	☐	5.000	5.101	12158.92	0.0369	P	3.5
4	☐	10.000	10.139	23437.04	0.0711	P	1.9
5	☐	100.000	98.414	219758.55	0.6714	P	0.7
6	☐	200.000	200.784	437429.32	1.3675	P	0.9

y = 0.0068 * x + 0.0022
R = 1.0000
DL = 0.03351
BEC = 0.3223

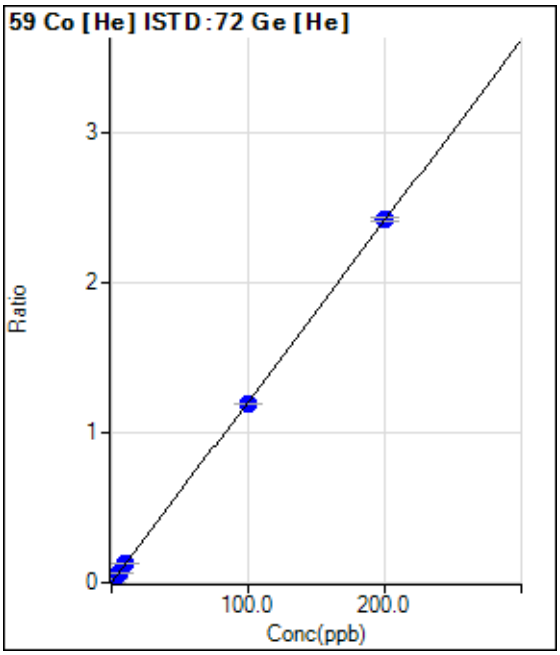
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9476.75	0.0289	P	2.0
2	☐	200.000	210.545	530949.27	1.6173	P	0.9
3	☐	500.000	525.187	1315947.30	3.9910	A	2.0
4	☐	1000.000	1046.859	2611824.02	7.9267	A	1.6
5	☐	10000.000	9892.648	24437730.47	74.6623	A	1.3
6	☐	20000.000	20050.598	48395494.28	151.2973	A	1.3

y = 0.0075 * x + 0.0289
R = 1.0000
DL = 0.2265
BEC = 3.824

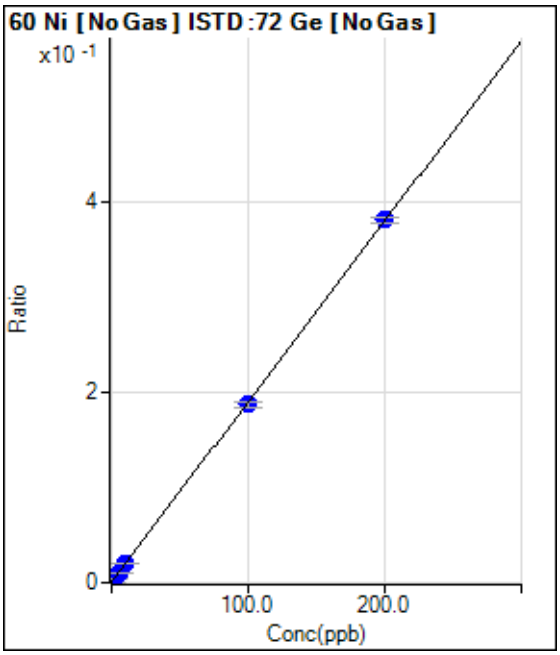
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	66.1
2	☐	2.000	1.996	7909.13	0.0241	P	3.3
3	☐	5.000	5.061	20108.43	0.0610	P	3.6
4	☐	10.000	10.162	40323.13	0.1224	P	1.0
5	☐	100.000	98.866	389495.14	1.1899	P	0.6
6	☐	200.000	200.558	772074.91	2.4138	P	1.1

y = 0.0120 * x + 7.1260E-005
R = 1.0000
DL = 0.01174
BEC = 0.005921

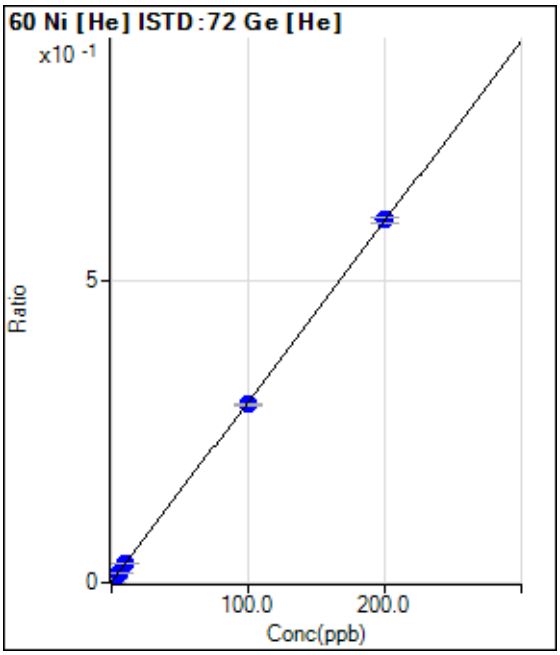
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1406.76	0.0010	P	2.1
2	☐	2.000	1.931	6691.77	0.0046	P	2.2
3	☐	5.000	5.067	15305.52	0.0106	P	0.6
4	☐	10.000	10.148	29057.88	0.0202	P	2.3
5	☐	100.000	98.228	271000.74	0.1867	P	2.8
6	☐	200.000	200.878	535389.64	0.3809	P	1.3

y = 0.0019 * x + 9.8656E-004
R = 0.9999
DL = 0.0322
BEC = 0.5217

Weight: <None>
Min Conc: <None>

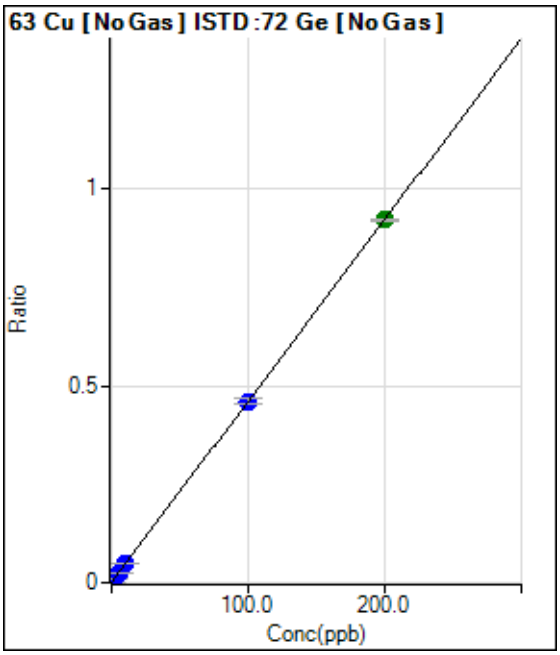


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.68	0.0009	P	20.2
2	☐	2.000	2.037	2310.25	0.0070	P	4.8
3	☐	5.000	5.143	5387.82	0.0163	P	4.4
4	☐	10.000	10.201	10377.49	0.0315	P	2.4
5	☐	100.000	98.424	96808.95	0.2958	P	1.7
6	☐	200.000	200.774	192674.11	0.6024	P	1.4

y = 0.0030 * x + 9.3429E-004
R = 1.0000
DL = 0.1888
BEC = 0.3119

Weight: <None>
Min Conc: <None>

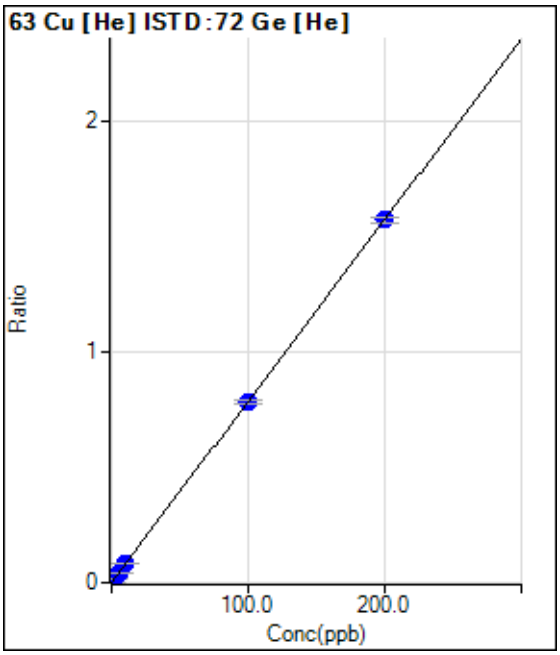
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	970.05	0.0007	P	10.5
2	☐	2.000	2.131	15135.32	0.0105	P	1.8
3	☐	5.000	5.169	35456.35	0.0245	P	1.6
4	☐	10.000	10.522	70770.43	0.0491	P	2.8
5	☐	100.000	99.937	669012.15	0.4610	P	2.6
6	☐	200.000	200.000	1295931.10	0.9219	A	0.5

y = 0.0046 * x + 6.8103E-004
R = 1.0000
DL = 0.04677
BEC = 0.1479

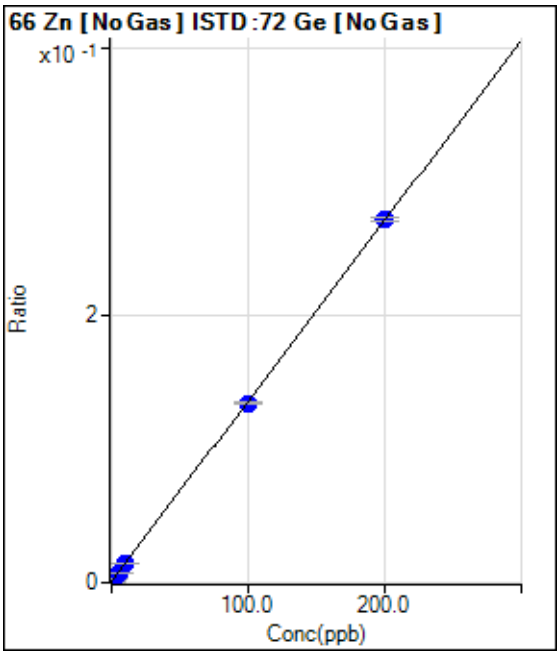
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0006	P	22.2
2	☐	2.000	2.050	5494.55	0.0167	P	3.4
3	☐	5.000	5.116	13463.50	0.0408	P	4.1
4	☐	10.000	10.333	26970.48	0.0818	P	2.6
5	☐	100.000	99.784	256852.02	0.7847	P	1.8
6	☐	200.000	200.088	503102.67	1.5729	P	1.3

y = 0.0079 * x + 6.2862E-004
R = 1.0000
DL = 0.05326
BEC = 0.08

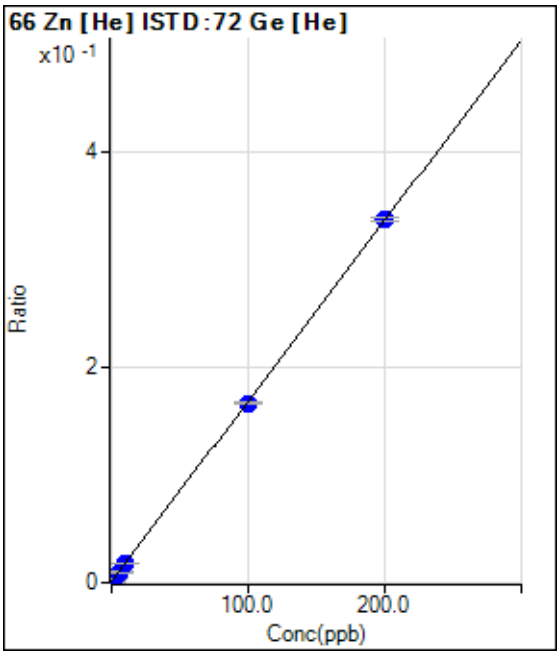
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1026.73	0.0007	P	3.2
2	☐	2.000	2.045	5024.35	0.0035	P	3.8
3	☐	5.000	5.053	10931.23	0.0076	P	4.6
4	☐	10.000	10.253	21003.24	0.0146	P	2.7
5	☐	100.000	99.025	195433.94	0.1346	P	1.5
6	☐	200.000	200.473	382125.80	0.2718	P	0.9

y = 0.0014 * x + 7.1999E-004
R = 1.0000
DL = 0.05172
BEC = 0.5324

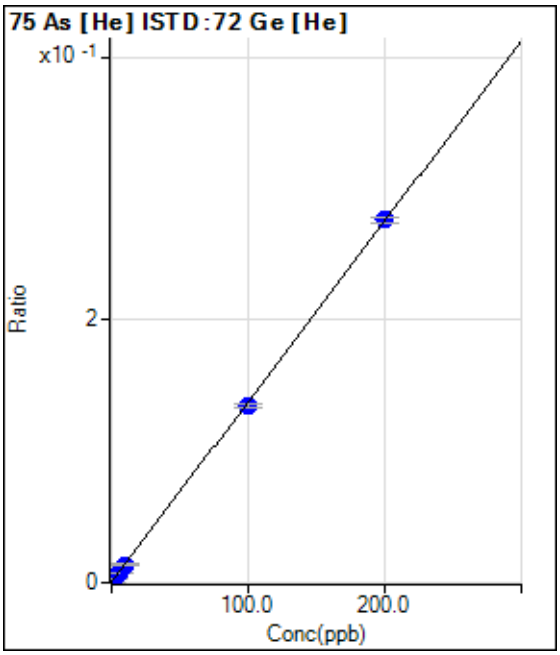
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.68	0.0010	P	21.0
2	☐	2.000	1.963	1406.77	0.0043	P	3.7
3	☐	5.000	5.216	3210.45	0.0097	P	6.1
4	☐	10.000	10.251	5988.09	0.0182	P	3.4
5	☐	100.000	98.929	54586.25	0.1668	P	1.5
6	☐	200.000	200.518	107798.70	0.3370	P	1.0

y = 0.0017 * x + 9.9533E-004
R = 1.0000
DL = 0.3737
BEC = 0.594

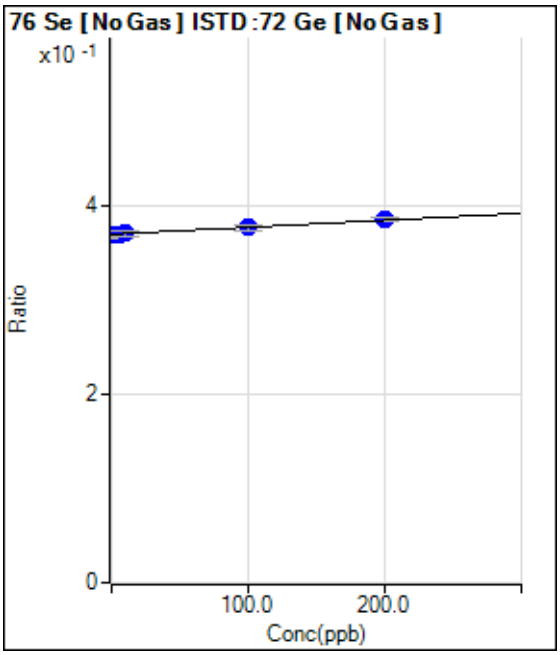
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0003	P	34.3
2	☐	2.000	1.802	902.26	0.0027	P	6.6
3	☐	5.000	5.275	2478.02	0.0075	P	1.7
4	☐	10.000	9.910	4575.25	0.0139	P	5.4
5	☐	100.000	98.057	44142.94	0.1349	P	1.4
6	☐	200.000	200.971	88326.95	0.2761	P	1.3

y = 0.0014 * x + 2.7421E-004
R = 0.9999
DL = 0.2055
BEC = 0.1998

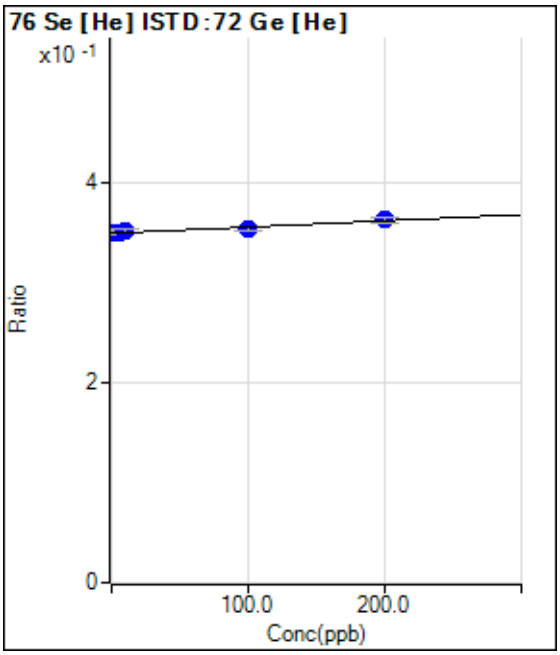
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	526267.04	0.3692	P	1.6
2	☐	2.000	-0.809	532290.08	0.3691	P	2.3
3	☐	5.000	-0.959	534387.05	0.3691	P	2.0
4	☐	10.000	8.259	532594.13	0.3698	P	1.4
5	☐	100.000	92.702	545864.77	0.3761	P	2.0
6	☐	200.000	203.913	540312.02	0.3844	P	1.0

y = 7.4380E-005 * x + 0.3692
R = 0.9990
DL = 232.9
BEC = 4964

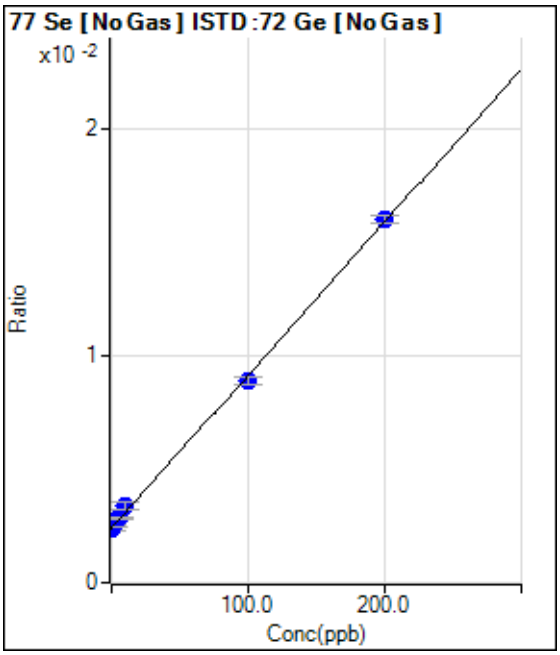
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114738.24	0.3493	P	0.3
2	☐	2.000	21.442	115120.83	0.3507	P	0.4
3	☐	5.000	12.074	115433.82	0.3501	P	1.3
4	☐	10.000	35.472	115841.26	0.3516	P	1.0
5	☐	100.000	69.977	115770.09	0.3537	P	1.2
6	☐	200.000	213.367	116005.52	0.3627	P	1.5

y = 6.2566E-005 * x + 0.3493
R = 0.9704
DL = 44.62
BEC = 5583

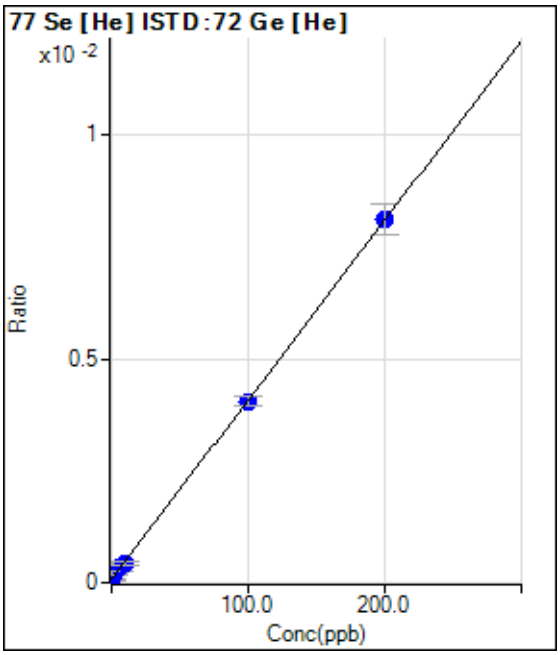
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3433.84	0.0024	P	8.5
2	☐	2.000	2.579	3723.93	0.0026	P	7.0
3	☐	5.000	6.432	4117.36	0.0028	P	3.2
4	☐	10.000	14.573	4890.95	0.0034	P	8.0
5	☐	100.000	96.740	12979.80	0.0089	P	3.9
6	☐	200.000	201.360	22485.65	0.0160	P	2.0

y = 6.7470E-005 * x + 0.0024
R = 0.9995
DL = 9.164
BEC = 35.73

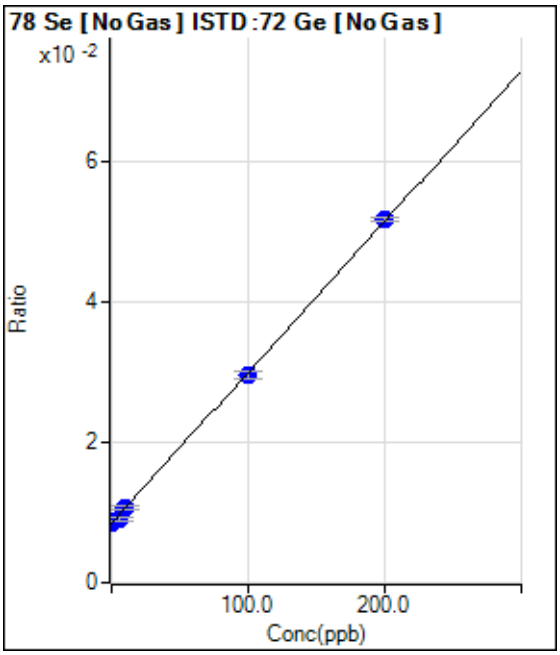
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	89.1
2	☐	2.000	2.785	60.00	0.0002	P	28.1
3	☐	5.000	6.800	113.34	0.0003	P	39.6
4	☐	10.000	9.072	143.33	0.0004	P	14.1
5	☐	100.000	99.257	1326.76	0.0041	P	5.8
6	☐	200.000	200.365	2593.62	0.0081	P	8.6

y = 4.0130E-005 * x + 7.0751E-005
R = 0.9999
DL = 4.713
BEC = 1.763

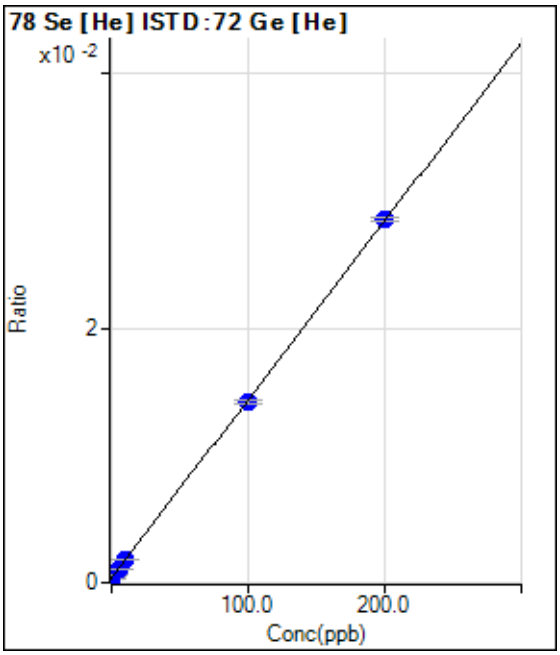
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12125.63	0.0085	P	1.7
2	☐	2.000	1.553	12742.89	0.0088	P	4.8
3	☐	5.000	2.313	13026.51	0.0090	P	6.4
4	☐	10.000	10.070	15369.02	0.0107	P	3.3
5	☐	100.000	98.099	42945.32	0.0296	P	3.6
6	☐	200.000	201.019	72705.73	0.0517	P	1.1

y = 2.1496E-004 * x + 0.0085
R = 0.9999
DL = 2.055
BEC = 39.58

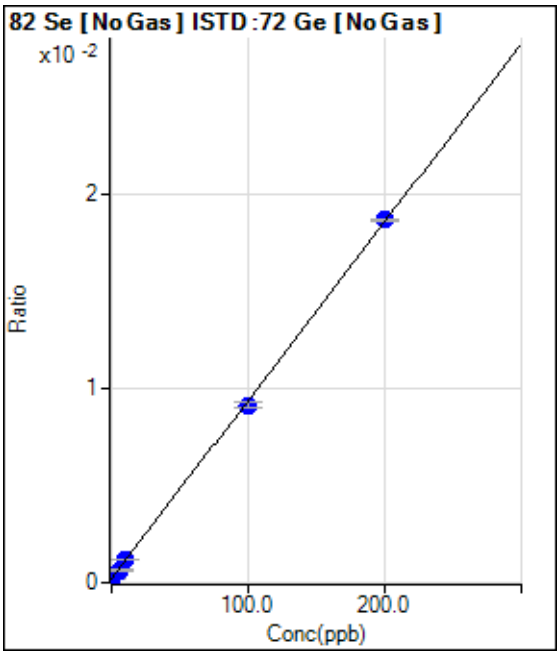
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0004	P	17.1
2	☐	2.000	2.305	226.00	0.0007	P	12.2
3	☐	5.000	5.212	361.34	0.0011	P	2.6
4	☐	10.000	10.295	596.02	0.0018	P	3.6
5	☐	100.000	98.506	4637.47	0.0142	P	1.7
6	☐	200.000	200.724	9113.76	0.0285	P	1.2

y = 1.4013E-004 * x + 3.6552E-004
R = 1.0000
DL = 1.34
BEC = 2.608

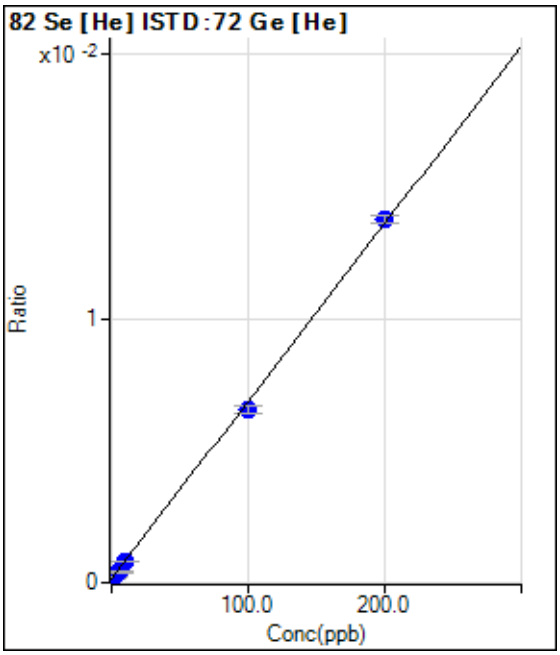
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296.68	0.0002	P	7.4
2	☐	2.000	1.834	543.35	0.0004	P	8.3
3	☐	5.000	4.714	926.72	0.0006	P	6.0
4	☐	10.000	10.422	1676.81	0.0012	P	0.8
5	☐	100.000	97.468	13276.81	0.0092	P	3.9
6	☐	200.000	201.254	26249.24	0.0187	P	0.4

y = 9.1748E-005 * x + 2.0799E-004
R = 0.9999
DL = 0.5016
BEC = 2.267

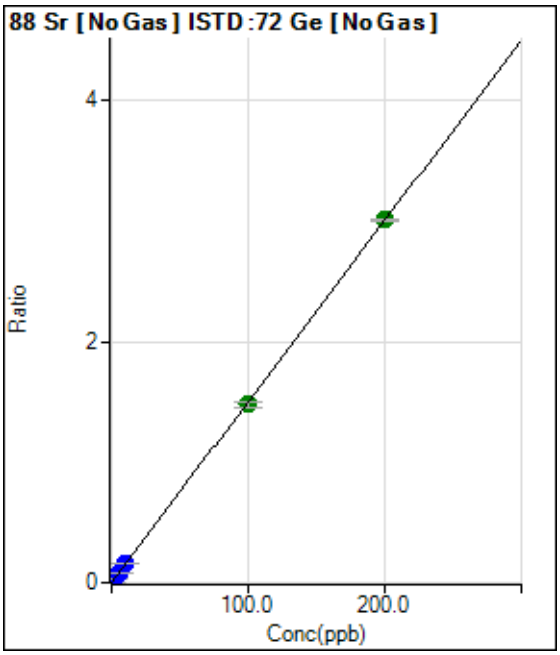
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0002	P	0.7
2	☐	2.000	1.362	80.00	0.0002	P	25.1
3	☐	5.000	3.754	133.33	0.0004	P	21.7
4	☐	10.000	9.637	263.34	0.0008	P	7.0
5	☐	100.000	95.686	2153.55	0.0066	P	4.3
6	☐	200.000	202.213	4394.14	0.0137	P	2.2

y = 6.7174E-005 * x + 1.5223E-004
R = 0.9997
DL = 0.04795
BEC = 2.266

Weight: <None>
Min Conc: <None>

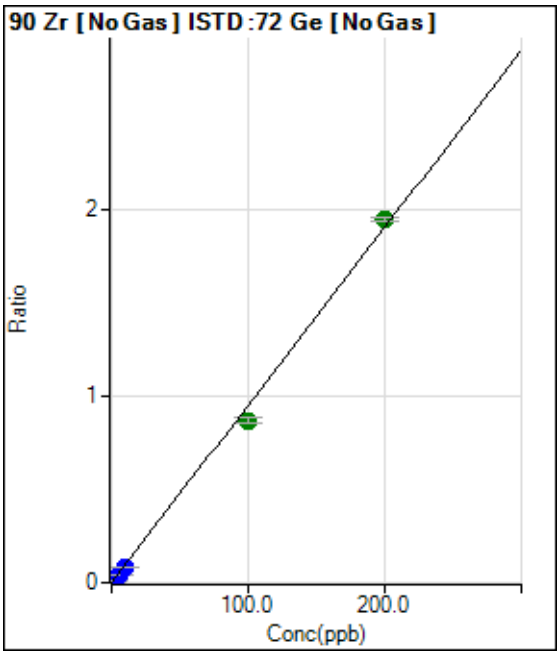


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503.35	0.0004	P	13.1
2	☐	2.000	2.030	44470.81	0.0308	P	0.5
3	☐	5.000	5.266	114910.06	0.0794	P	3.5
4	☐	10.000	10.458	226559.17	0.1573	P	1.0
5	☐	100.000	98.754	2151301.53	1.4825	A	3.2
6	☐	200.000	200.593	4232781.60	3.0110	A	0.2

y = 0.0150 * x + 3.5342E-004
R = 1.0000
DL = 0.009265
BEC = 0.02355

Weight: <None>
Min Conc: <None>

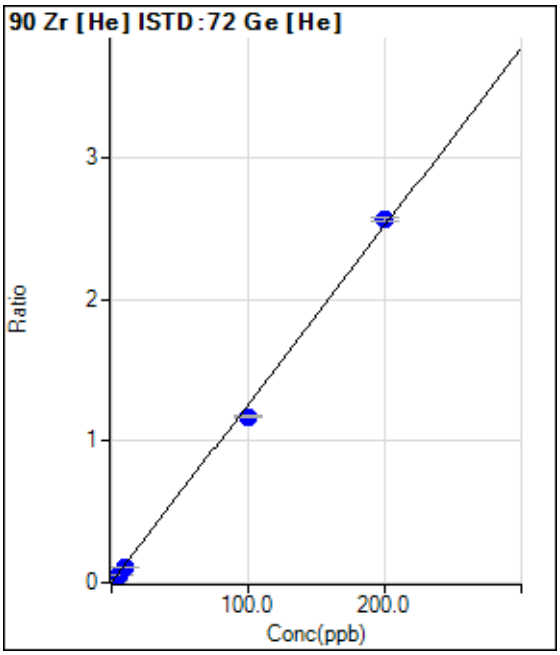
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.70	0.0005	P	13.5
2	☐	2.000	1.567	22298.88	0.0155	P	4.2
3	☐	5.000	4.042	56556.31	0.0391	P	2.0
4	☐	10.000	8.598	118827.64	0.0825	P	1.1
5	☐	100.000	91.359	1264983.21	0.8717	A	2.9
6	☐	200.000	204.419	2741131.42	1.9498	A	1.2

y = 0.0095 * x + 5.2306E-004
R = 0.9988
DL = 0.02226
BEC = 0.05485

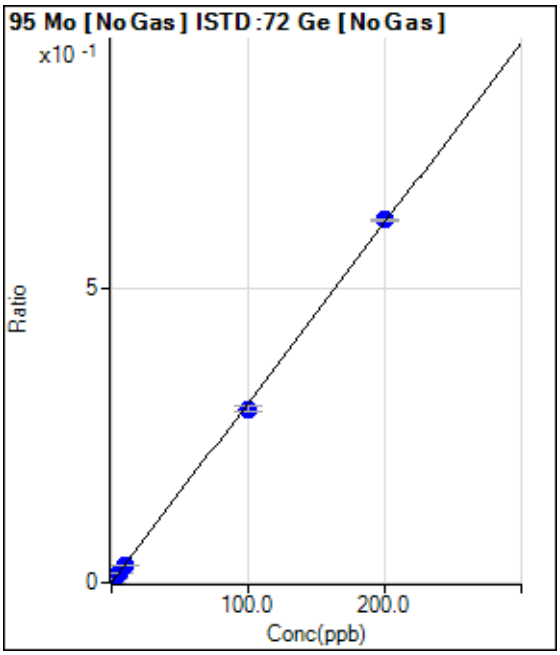
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.34	0.0012	P	4.5
2	☐	2.000	1.578	6921.93	0.0211	P	6.8
3	☐	5.000	4.115	17481.75	0.0530	P	1.9
4	☐	10.000	8.643	36246.06	0.1100	P	0.6
5	☐	100.000	93.216	384375.03	1.1743	P	1.1
6	☐	200.000	203.486	819505.75	2.5621	P	1.1

y = 0.0126 * x + 0.0012
R = 0.9992
DL = 0.01313
BEC = 0.09756

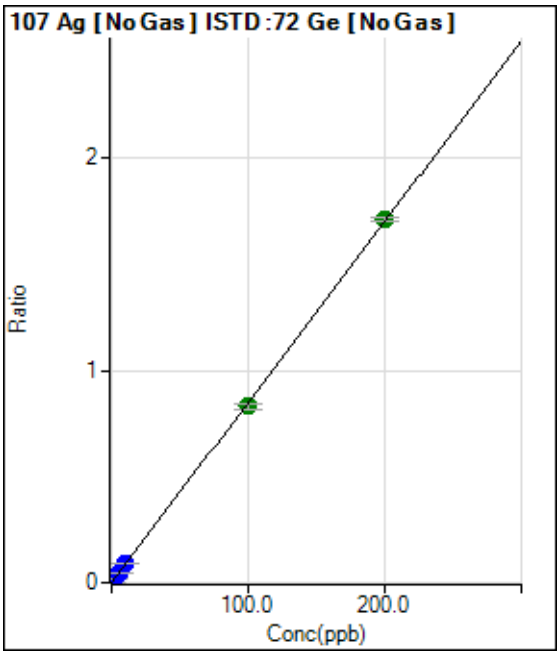
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.33	0.0001	P	15.8
2	☐	2.000	1.944	8696.34	0.0060	P	0.9
3	☐	5.000	4.872	21654.51	0.0150	P	2.7
4	☐	10.000	10.010	44113.43	0.0306	P	0.4
5	☐	100.000	96.627	427788.73	0.2948	P	2.9
6	☐	200.000	201.690	864798.09	0.6152	P	0.6

y = 0.0030 * x + 1.0052E-004
R = 0.9998
DL = 0.01562
BEC = 0.03296

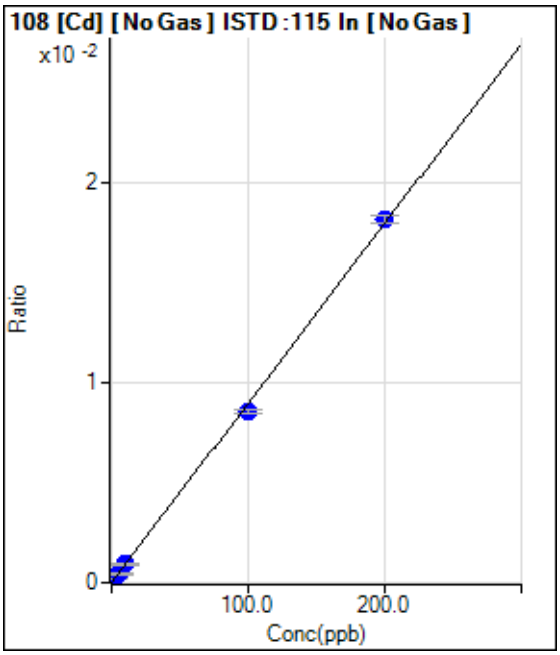
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0002	P	10.2
2	☐	2.000	1.975	24456.31	0.0170	P	1.5
3	☐	5.000	5.098	63003.16	0.0435	P	2.5
4	☐	10.000	10.273	126072.94	0.0875	P	1.5
5	☐	100.000	97.913	1208778.50	0.8329	A	3.3
6	☐	200.000	201.028	2403920.43	1.7100	A	0.9

y = 0.0085 * x + 1.5676E-004
R = 0.9999
DL = 0.005643
BEC = 0.01843

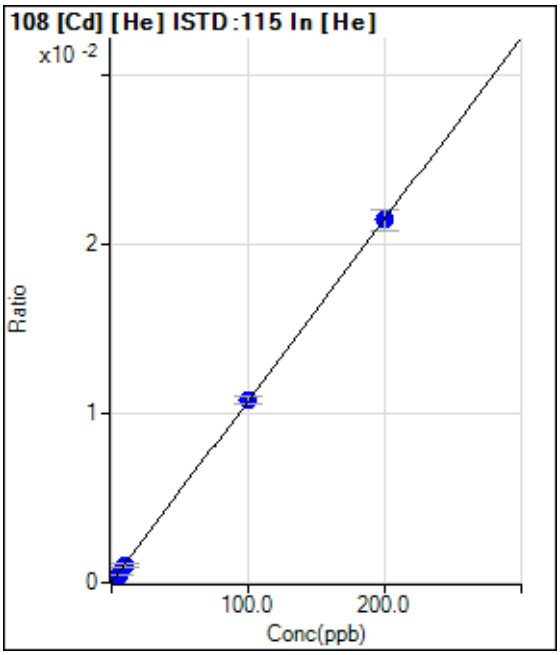
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	2.238	430.02	0.0002	P	8.7
3	☐	5.000	5.263	1026.73	0.0005	P	20.7
4	☐	10.000	10.287	1996.85	0.0009	P	6.8
5	☐	100.000	95.647	18656.77	0.0086	P	2.3
6	☐	200.000	202.153	38058.32	0.0181	P	2.2

y = 8.9736E-005 * x + 0.0000E+000
R = 0.9997
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

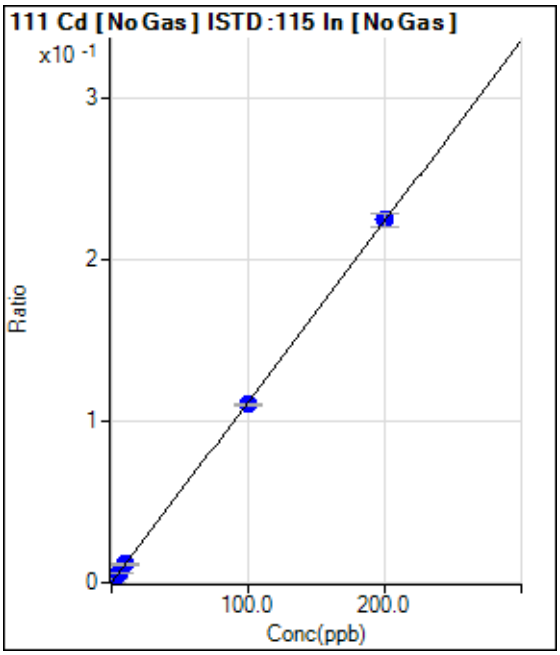


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.9
2	☐	2.000	1.834	140.00	0.0002	P	40.0
3	☐	5.000	4.373	316.68	0.0005	P	7.7
4	☐	10.000	9.672	676.70	0.0011	P	19.7
5	☐	100.000	100.766	6878.56	0.0108	P	4.1
6	☐	200.000	199.651	13280.20	0.0214	P	5.5

y = 1.0722E-004 * x + 2.0897E-005
R = 1.0000
DL = 0.6718
BEC = 0.1949

Weight: <None>
Min Conc: <None>

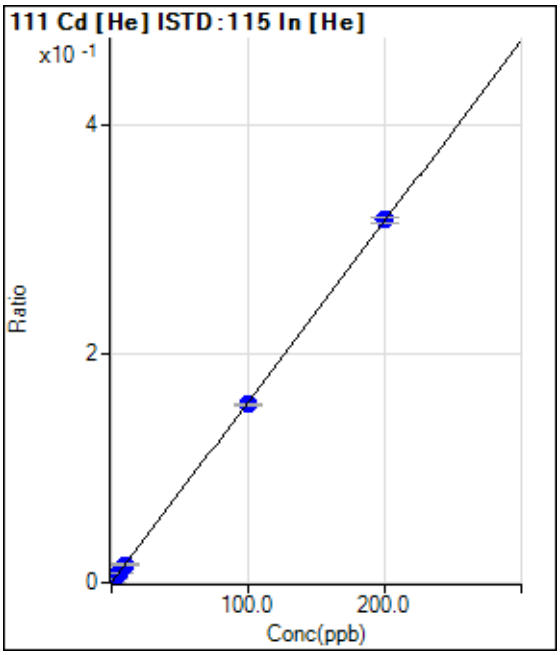
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.127	5096.56	0.0024	P	7.4
3	☐	5.000	4.995	12161.83	0.0056	P	5.3
4	☐	10.000	10.142	24547.92	0.0113	P	2.5
5	☐	100.000	98.484	239357.45	0.1101	P	2.0
6	☐	200.000	200.750	470731.23	0.2245	P	3.6

y = 0.0011 * x + 3.1021E-006
R = 1.0000
DL = 0.007209
BEC = 0.002774

Weight: <None>
Min Conc: <None>

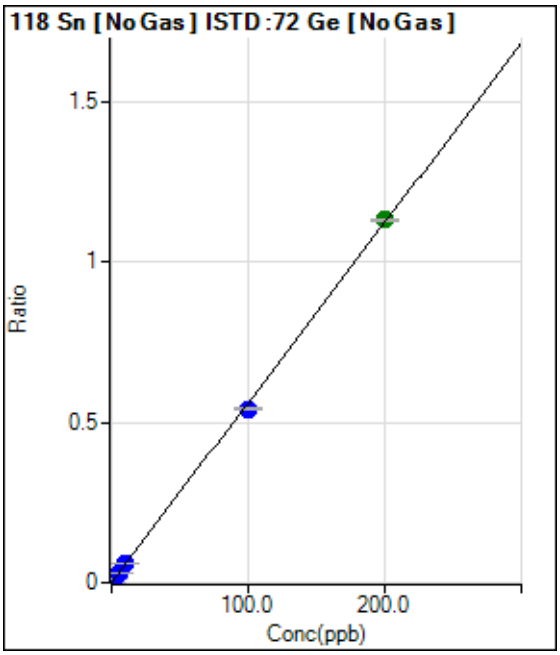


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.31	0.0000	P	114.9
2	☐	2.000	2.041	2093.74	0.0032	P	7.1
3	☐	5.000	5.048	5174.10	0.0080	P	0.8
4	☐	10.000	10.051	10193.04	0.0159	P	1.0
5	☐	100.000	98.485	98973.95	0.1557	P	1.4
6	☐	200.000	200.753	196749.17	0.3174	P	1.6

y = 0.0016 * x + 2.2422E-005
R = 1.0000
DL = 0.04888
BEC = 0.01418

Weight: <None>
Min Conc: <None>

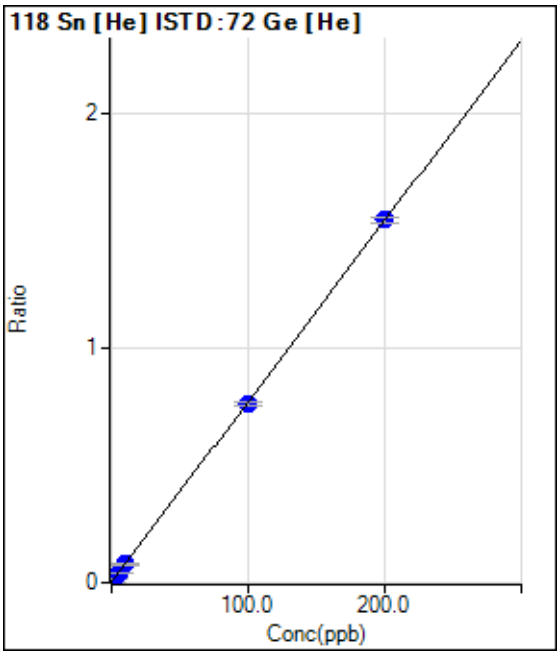
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0010	P	3.1
2	☐	2.000	2.022	17819.01	0.0124	P	0.4
3	☐	5.000	4.986	41947.17	0.0290	P	4.1
4	☐	10.000	10.165	83598.09	0.0580	P	1.6
5	☐	100.000	96.541	787883.95	0.5428	P	1.3
6	☐	200.000	201.722	1592834.19	1.1331	A	0.6

y = 0.0056 * x + 0.0010
R = 0.9998
DL = 0.0168
BEC = 0.1791

Weight: <None>
Min Conc: <None>

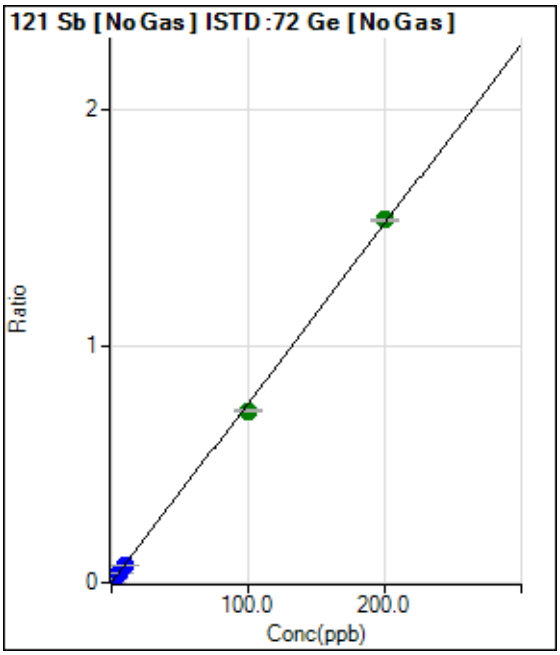


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	460.01	0.0014	P	22.0
2	☐	2.000	1.944	5384.56	0.0164	P	7.3
3	☐	5.000	4.948	13046.62	0.0396	P	2.2
4	☐	10.000	9.991	25852.49	0.0785	P	1.3
5	☐	100.000	98.880	250108.00	0.7641	P	1.4
6	☐	200.000	200.562	495276.02	1.5484	P	1.3

y = 0.0077 * x + 0.0014
R = 1.0000
DL = 0.1199
BEC = 0.1814

Weight: <None>
Min Conc: <None>

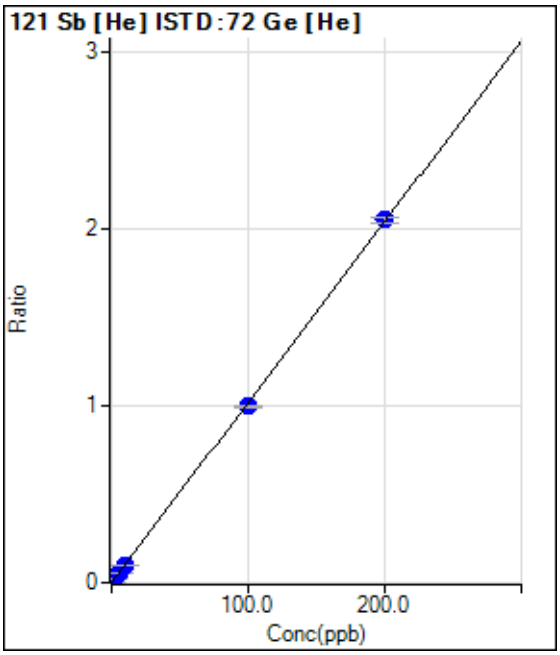
Calibration for 235_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	376.68	0.0003	P	40.2
2	☐	2.000	2.015	22439.39	0.0156	P	2.4
3	☐	5.000	4.937	54643.95	0.0377	P	1.3
4	☐	10.000	10.050	110257.01	0.0766	P	1.8
5	☐	100.000	95.632	1054473.58	0.7263	A	1.4
6	☐	200.000	202.183	2158027.21	1.5351	A	0.8

y = 0.0076 * x + 2.6305E-004
R = 0.9997
DL = 0.04179
BEC = 0.03465

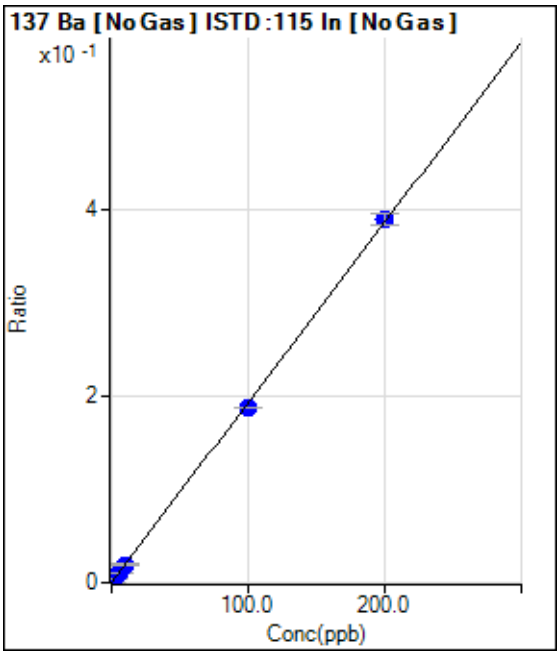
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0006	P	2.6
2	☐	2.000	2.078	7128.73	0.0217	P	3.2
3	☐	5.000	4.926	16720.96	0.0507	P	7.2
4	☐	10.000	10.008	33760.20	0.1024	P	0.8
5	☐	100.000	97.921	326457.81	0.9974	P	1.1
6	☐	200.000	201.040	654804.65	2.0472	P	1.6

y = 0.0102 * x + 5.5814E-004
R = 0.9999
DL = 0.00426
BEC = 0.05483

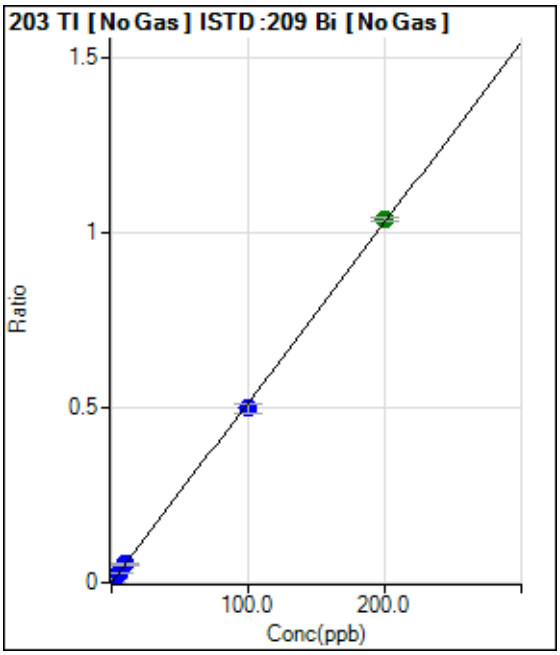
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.00	0.0001	P	16.3
2	☐	2.000	2.072	8696.38	0.0041	P	2.1
3	☐	5.000	5.006	21154.15	0.0097	P	2.5
4	☐	10.000	10.098	42269.02	0.0195	P	3.9
5	☐	100.000	97.009	406560.00	0.1870	P	0.6
6	☐	200.000	201.490	814479.26	0.3883	P	3.2

y = 0.0019 * x + 7.4593E-005
R = 0.9998
DL = 0.01891
BEC = 0.03871

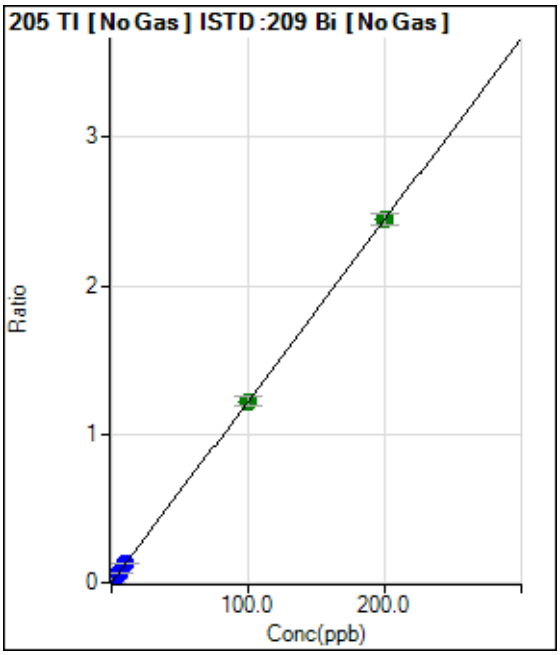
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	22.8
2	☐	2.000	1.827	20099.79	0.0094	P	4.8
3	☐	5.000	4.928	55443.15	0.0254	P	3.3
4	☐	10.000	10.190	111115.10	0.0525	P	2.9
5	☐	100.000	96.992	1059281.75	0.4993	P	5.9
6	☐	200.000	201.498	2150967.00	1.0373	A	1.2

y = 0.0051 * x + 3.1655E-005
R = 0.9998
DL = 0.004213
BEC = 0.006149

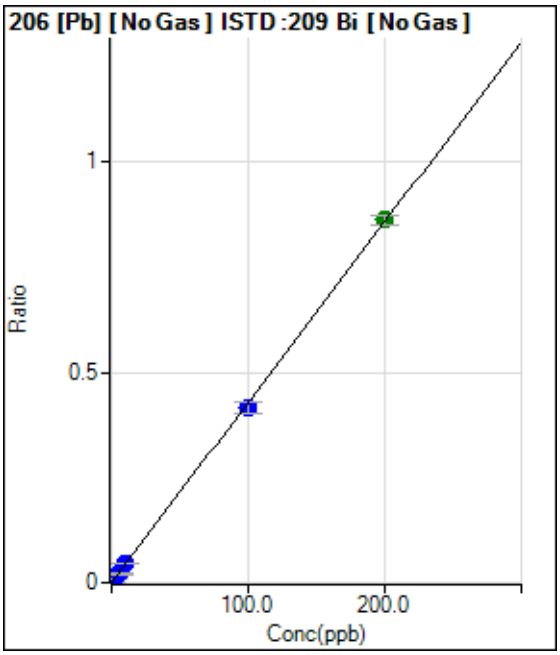
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0001	P	33.8
2	☐	2.000	1.833	47831.97	0.0225	P	6.9
3	☐	5.000	4.957	132376.82	0.0607	P	3.9
4	☐	10.000	10.262	265635.66	0.1255	P	1.7
5	☐	100.000	99.982	2591868.40	1.2218	A	5.9
6	☐	200.000	199.999	5065549.19	2.4439	A	3.1

y = 0.0122 * x + 7.4658E-005
R = 1.0000
DL = 0.006202
BEC = 0.00611

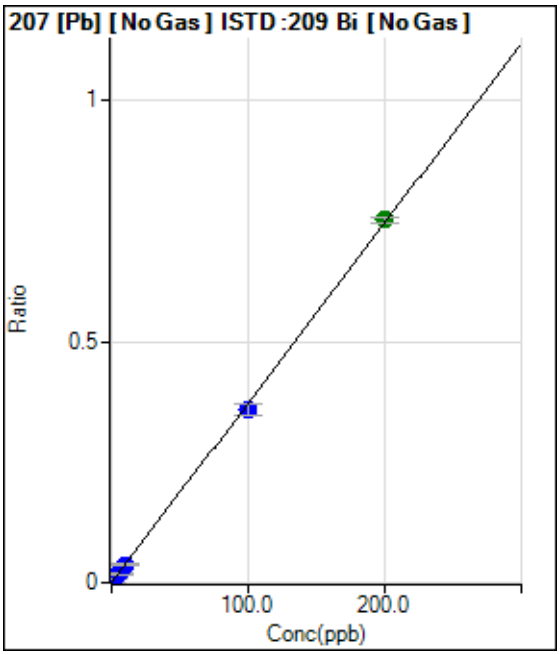
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	27.4
2	☐	2.000	2.007	18493.94	0.0087	P	3.2
3	☐	5.000	4.869	45663.87	0.0209	P	6.1
4	☐	10.000	10.277	93331.08	0.0441	P	2.5
5	☐	100.000	97.287	883676.05	0.4166	P	6.0
6	☐	200.000	201.346	1787070.60	0.8621	A	2.4

y = 0.0043 * x + 8.8713E-005
R = 0.9999
DL = 0.01706
BEC = 0.02072

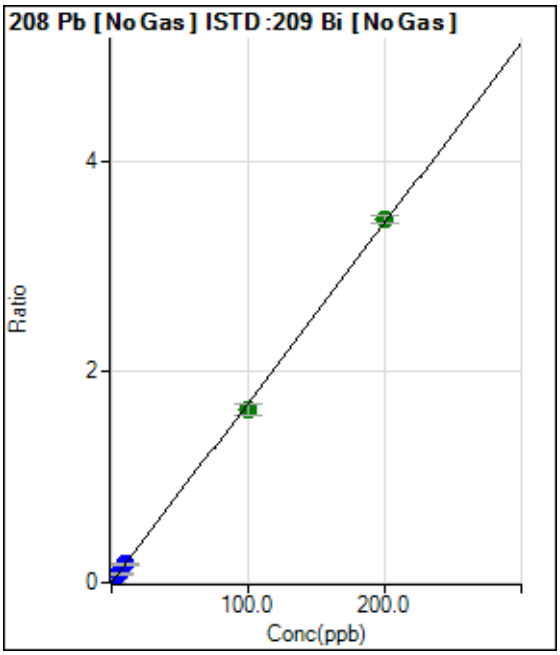
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0001	P	35.6
2	☐	2.000	1.935	15523.28	0.0073	P	4.9
3	☐	5.000	4.834	39499.54	0.0181	P	3.7
4	☐	10.000	10.049	79479.47	0.0375	P	2.2
5	☐	100.000	96.301	761823.95	0.3591	P	6.0
6	☐	200.000	201.852	1560652.11	0.7527	A	1.7

y = 0.0037 * x + 7.1016E-005
R = 0.9998
DL = 0.02035
BEC = 0.01905

Weight: <None>
Min Conc: <None>

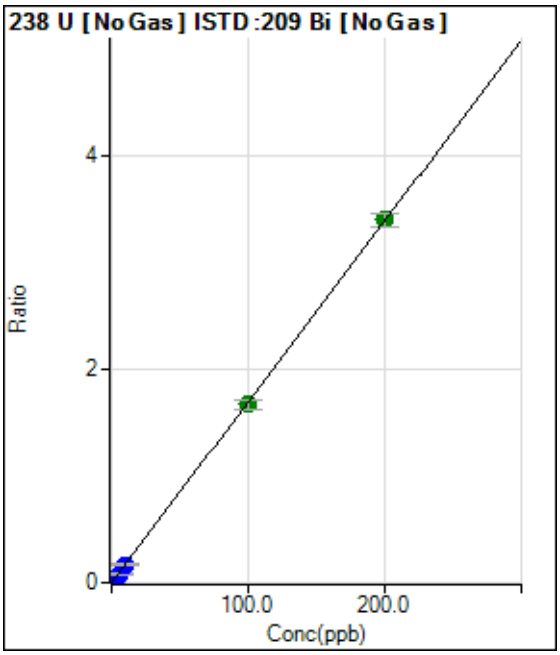


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	740.02	0.0004	P	9.1
2	☐	2.000	1.970	72339.83	0.0340	P	3.6
3	☐	5.000	4.840	180949.88	0.0829	P	4.3
4	☐	10.000	10.207	369339.43	0.1745	P	1.6
5	☐	100.000	96.509	3492183.57	1.6466	A	6.4
6	☐	200.000	201.740	7134741.41	3.4415	A	2.2

y = 0.0171 * x + 3.5164E-004
R = 0.9998
DL = 0.005605
BEC = 0.02062

Weight: <None>
Min Conc: <None>

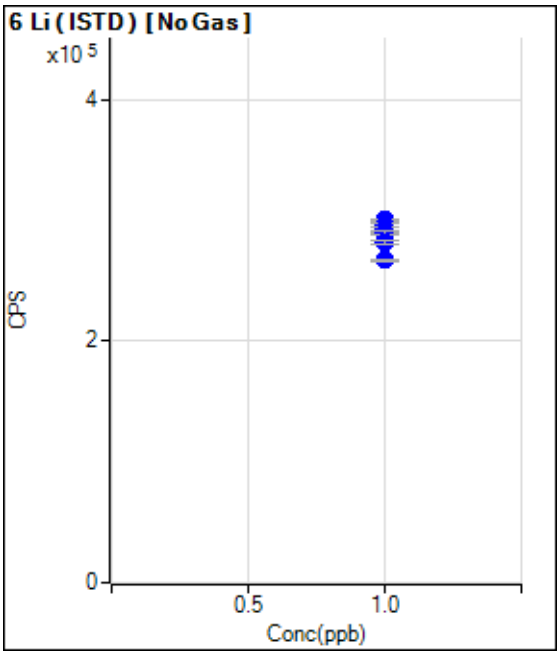
Calibration for 235_ICV.d



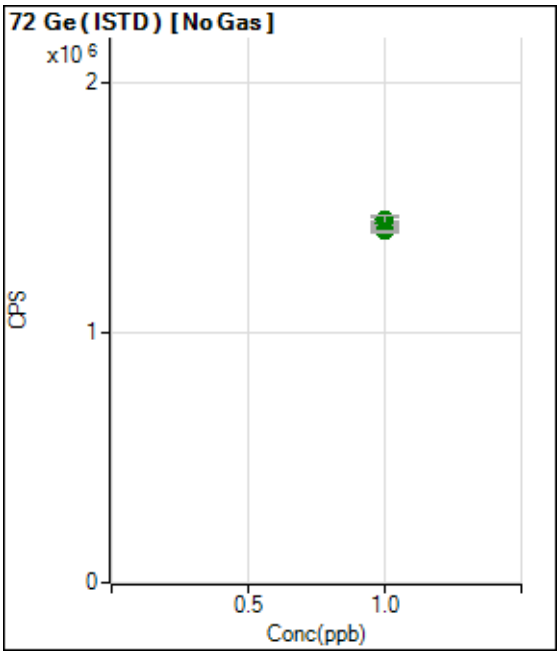
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.68	0.0001	P	16.3
2	☐	2.000	1.933	69842.01	0.0328	P	3.2
3	☐	5.000	4.780	176499.25	0.0809	P	5.3
4	☐	10.000	10.076	360750.51	0.1704	P	0.9
5	☐	100.000	98.537	3532354.01	1.6652	A	6.0
6	☐	200.000	200.734	7029871.36	3.3922	A	3.9

y = 0.0169 * x + 1.1729E-004
R = 1.0000
DL = 0.00339
BEC = 0.006941

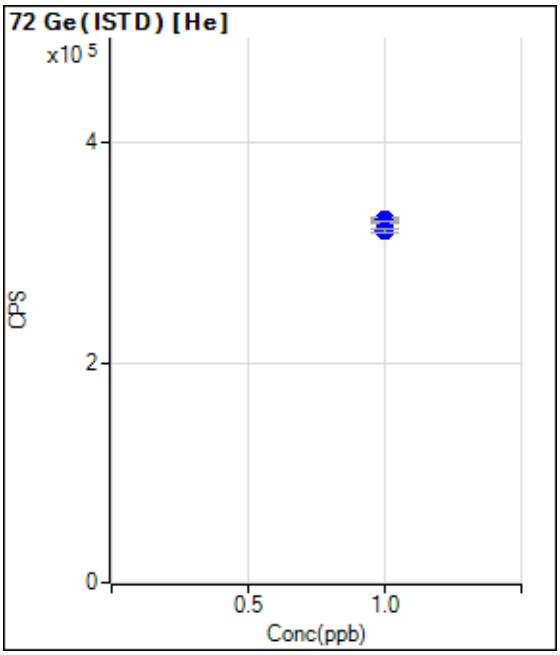
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		300612.42		P	0.8
2	☐	1.000		296386.52		P	0.9
3	☐	1.000		292624.10		P	1.5
4	☐	1.000		290080.39		P	0.8
5	☐	1.000		281847.32		P	1.5
6	☐	1.000		267170.77		P	0.5

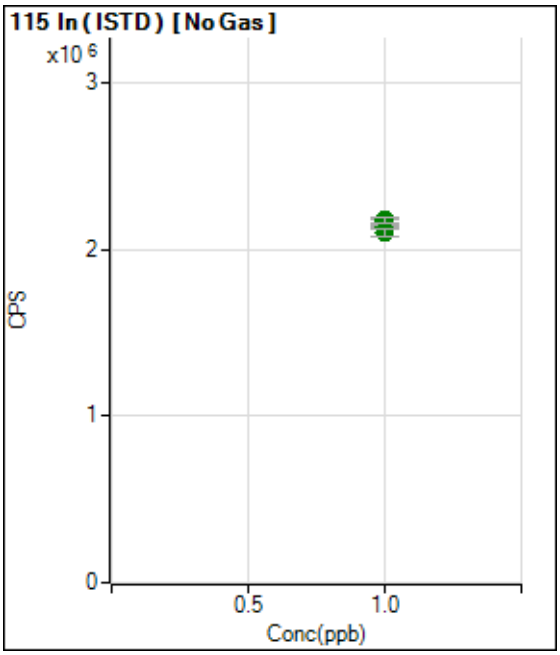


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1425650.08		A	1.7
2	☐	1.000		1442550.71		A	2.6
3	☐	1.000		1448134.46		A	2.3
4	☐	1.000		1440311.07		A	1.4
5	☐	1.000		1451864.62		A	2.4
6	☐	1.000		1405780.71		A	0.6

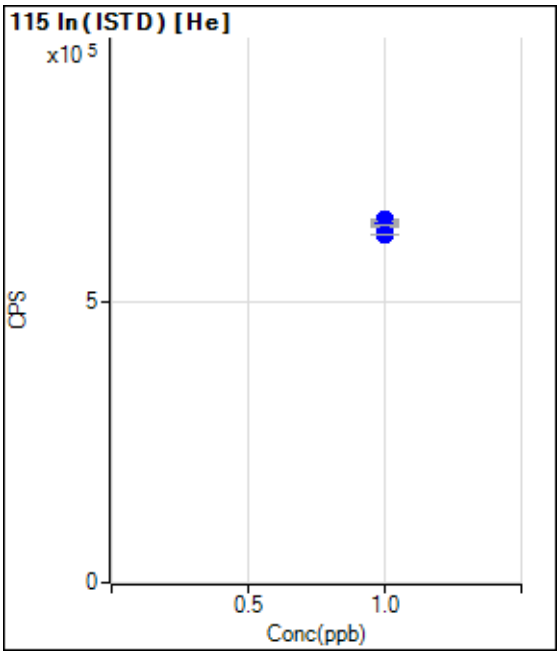


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		328451.48		P	0.7
2	☐	1.000		328284.63		P	0.7
3	☐	1.000		329735.77		P	0.3
4	☐	1.000		329533.82		P	1.7
5	☐	1.000		327319.73		P	0.7
6	☐	1.000		319873.66		P	0.8

Calibration for 235_ICV.d

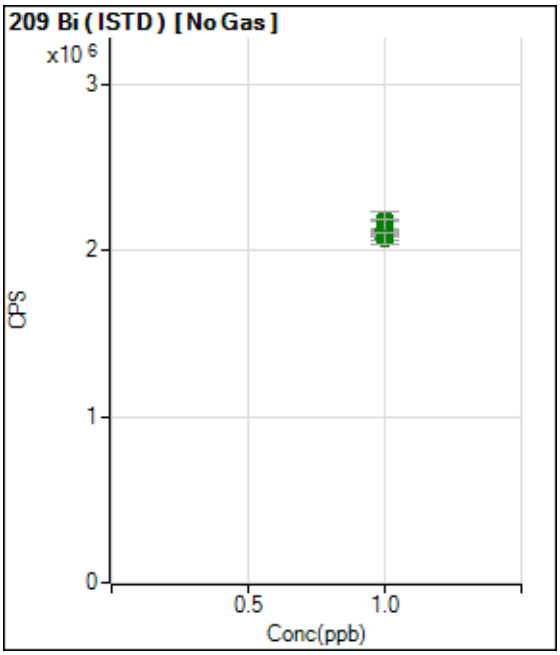


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2144397.45		A	0.6
2	☐	1.000		2138708.57		A	2.0
3	☐	1.000		2175962.76		A	1.4
4	☐	1.000		2164668.81		A	1.6
5	☐	1.000		2174060.58		A	1.2
6	☐	1.000		2098308.26		A	2.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		636462.36		P	1.0
2	☐	1.000		644255.38		P	0.5
3	☐	1.000		646404.45		P	0.5
4	☐	1.000		640485.46		P	1.1
5	☐	1.000		635535.28		P	0.8
6	☐	1.000		619798.67		P	0.3

Calibration for 235_ICV.d



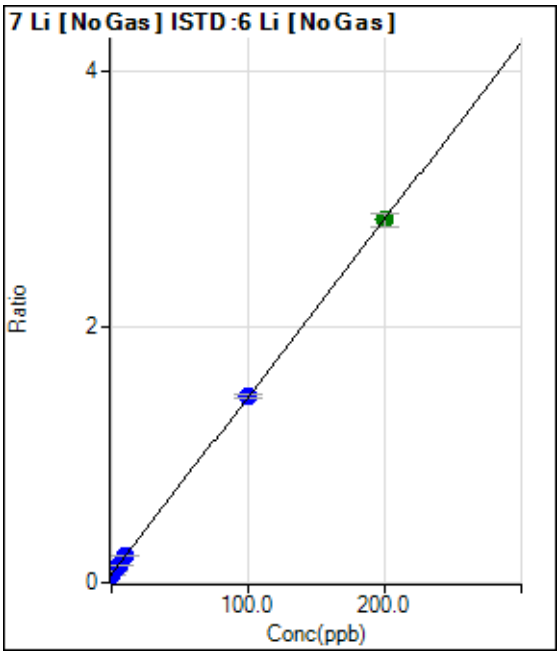
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2105332.16		A	1.5
2	☐	1.000		2132361.32		A	3.8
3	☐	1.000		2185200.07		A	4.6
4	☐	1.000		2117308.41		A	0.9
5	☐	1.000		2126581.90		A	6.3
6	☐	1.000		2074248.56		A	3.7

Calibration for 173_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	166CALB.d	CAL BLK	5/15/2024 7:13:37 PM
2	167CALS.d	2/10/200	5/15/2024 7:15:33 PM
3	168CALS.d	5/25/500	5/15/2024 7:17:29 PM
4	169CALS.d	10/50/100	5/15/2024 7:19:24 PM
5	170CALS.d	100/500/10K	5/15/2024 7:21:20 PM
6	171CALS.d	200/1000/20K	5/15/2024 7:23:10 PM

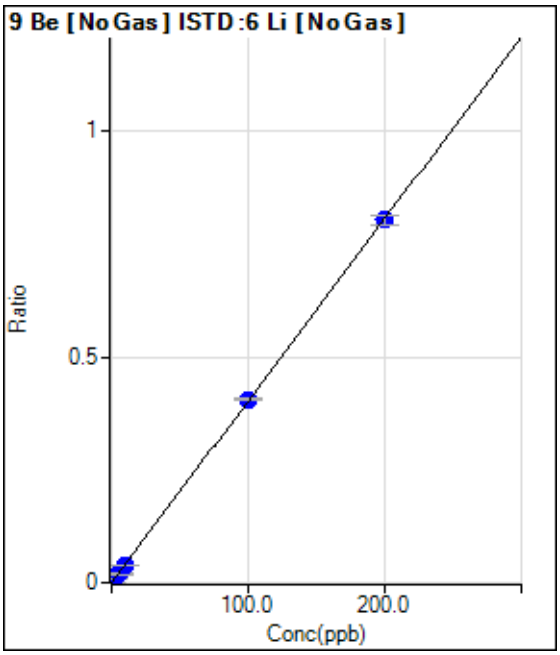
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25977.29	0.0667	P	1.9
2	☐	2.000	1.845	35730.19	0.0923	P	1.7
3	☐	5.000	4.981	52144.27	0.1357	P	1.5
4	☐	10.000	9.997	78359.49	0.2052	P	1.7
5	☐	100.000	100.450	517876.22	1.4576	P	2.2
6	☐	200.000	199.777	962106.60	2.8328	A	3.7

y = 0.0138 * x + 0.0667
R = 1.0000
DL = 0.275
BEC = 4.821

Weight: <None>
Min Conc: <None>

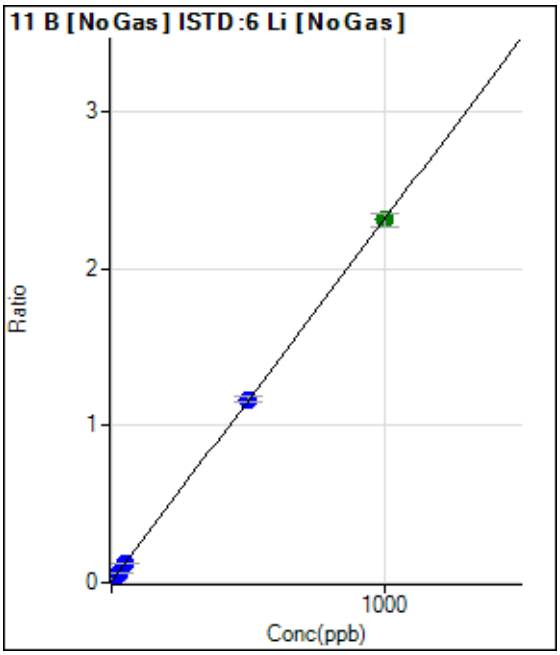


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.7
2	☐	2.000	1.957	3067.03	0.0079	P	13.6
3	☐	5.000	4.846	7520.40	0.0196	P	4.5
4	☐	10.000	9.927	15296.77	0.0401	P	2.1
5	☐	100.000	100.921	144564.39	0.4069	P	1.9
6	☐	200.000	199.547	273235.60	0.8045	P	2.9

y = 0.0040 * x + 3.4206E-005
R = 1.0000
DL = 0.01087
BEC = 0.008485

Weight: <None>
Min Conc: <None>

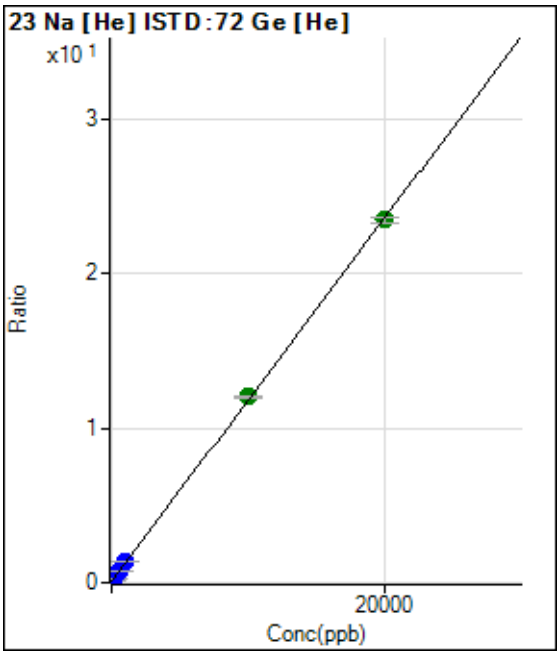
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2786.97	0.0072	P	1.7
2	☐	10.000	9.652	11398.01	0.0294	P	4.3
3	☐	25.000	24.978	24908.80	0.0648	P	1.5
4	☐	50.000	49.754	46601.99	0.1220	P	2.2
5	☐	500.000	503.540	415560.59	1.1696	P	2.7
6	☐	1000.000	998.247	785119.08	2.3117	A	3.7

y = 0.0023 * x + 0.0072
R = 1.0000
DL = 0.155
BEC = 3.102

Weight: <None>
Min Conc: <None>

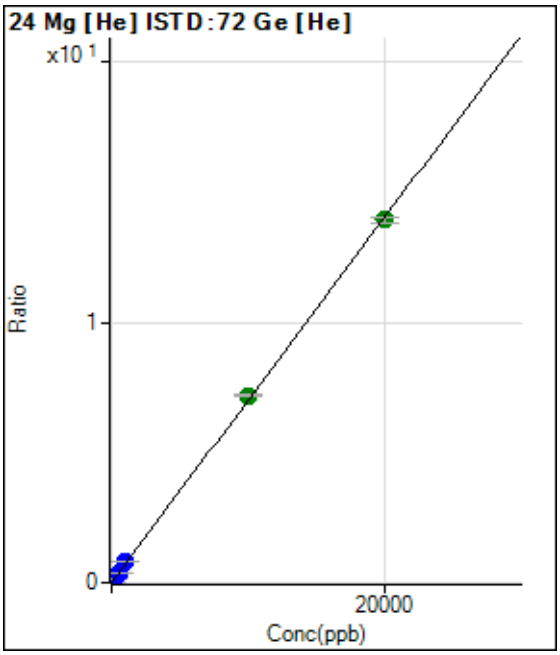


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30109.43	0.0665	P	1.3
2	☐	200.000	205.015	141327.08	0.3078	P	2.0
3	☐	500.000	551.550	330544.49	0.7157	P	1.8
4	☐	1000.000	1105.145	630364.01	1.3673	P	1.0
5	☐	10000.000	10166.424	5330956.17	12.0330	A	0.9
6	☐	20000.000	19910.192	10251632.35	23.5020	A	1.5

y = 0.0012 * x + 0.0665
R = 0.9999
DL = 2.129
BEC = 56.49

Weight: <None>
Min Conc: <None>

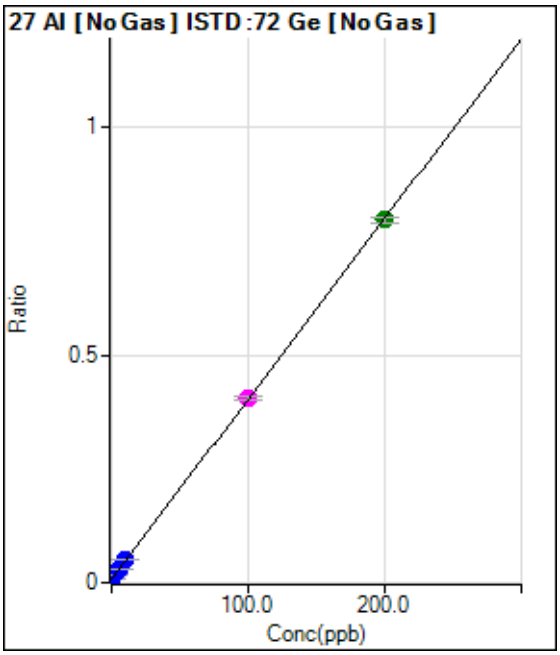
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	686.70	0.0015	P	5.7
2	☐	200.000	211.716	68913.40	0.1501	P	2.6
3	☐	500.000	560.866	182491.32	0.3951	P	2.3
4	☐	1000.000	1115.683	361698.63	0.7845	P	1.7
5	☐	10000.000	10242.500	3185277.76	7.1897	A	1.5
6	☐	20000.000	19871.327	6083749.49	13.9473	A	1.5

y = 7.0180E-004 * x + 0.0015
R = 0.9999
DL = 0.3705
BEC = 2.161

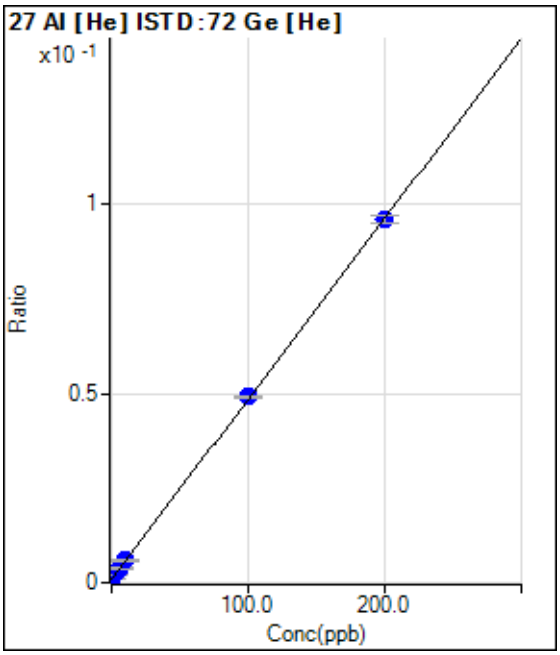
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15378.78	0.0077	P	2.5
2	☐	2.000	2.123	32548.30	0.0161	P	0.5
3	☐	5.000	5.380	58030.80	0.0290	P	1.1
4	☐	10.000	10.784	101561.97	0.0504	P	1.6
5	☐	100.000	100.890	799052.10	0.4070	M	2.3
6	☐	200.000	199.505	1514846.33	0.7972	A	1.6

y = 0.0040 * x + 0.0077
R = 1.0000
DL = 0.1448
BEC = 1.952

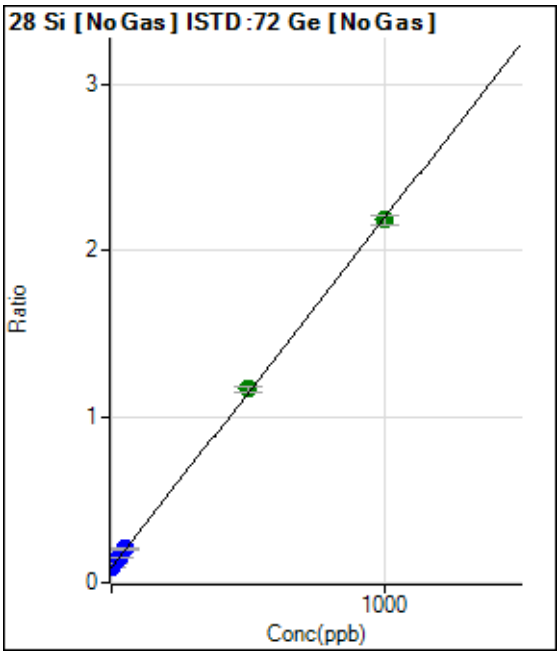
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	416.68	0.0009	P	28.8
2	☐	2.000	2.185	900.05	0.0020	P	6.1
3	☐	5.000	6.013	1746.81	0.0038	P	5.0
4	☐	10.000	10.496	2726.99	0.0059	P	3.8
5	☐	100.000	101.145	21733.87	0.0491	P	1.6
6	☐	200.000	199.376	41793.08	0.0958	P	2.2

y = 4.7592E-004 * x + 9.2057E-004
R = 1.0000
DL = 1.672
BEC = 1.934

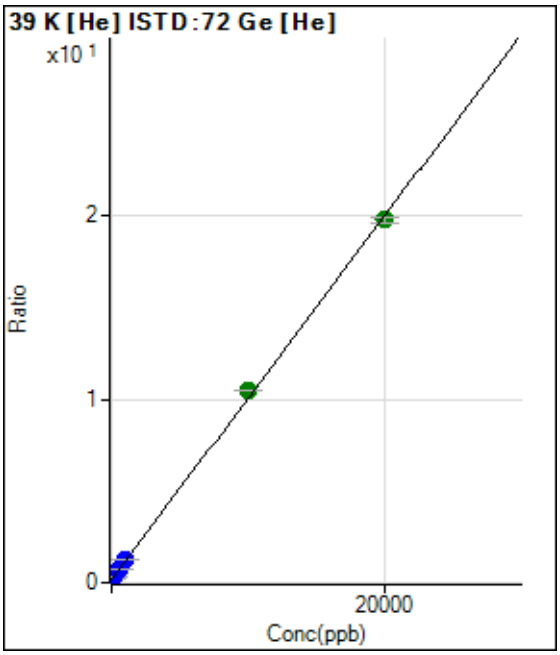
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181334.05	0.0911	P	0.9
2	☐	10.000	10.424	228109.50	0.1130	P	1.7
3	☐	25.000	27.206	296674.38	0.1483	P	1.1
4	☐	50.000	53.439	410084.36	0.2035	P	2.5
5	☐	500.000	509.928	2285337.73	1.1641	A	3.8
6	☐	1000.000	994.805	4150103.79	2.1843	A	3.0

y = 0.0021 * x + 0.0911
R = 0.9999
DL = 1.184
BEC = 43.29

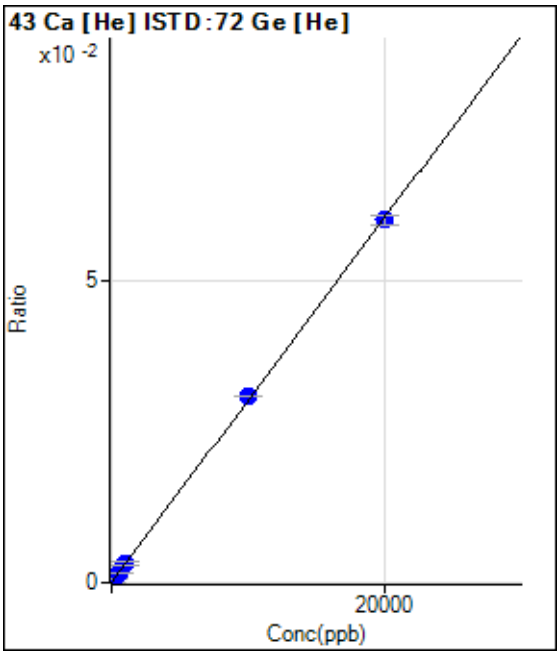
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71666.20	0.1583	P	1.4
2	☐	200.000	207.210	166896.28	0.3635	P	0.5
3	☐	500.000	554.649	326835.59	0.7077	P	1.5
4	☐	1000.000	1099.825	575232.32	1.2477	P	1.0
5	☐	10000.000	10403.512	4635519.31	10.4635	A	0.7
6	☐	20000.000	19791.815	8620931.95	19.7631	A	1.4

y = 9.9056E-004 * x + 0.1583
R = 0.9997
DL = 6.573
BEC = 159.8

Weight: <None>
Min Conc: <None>

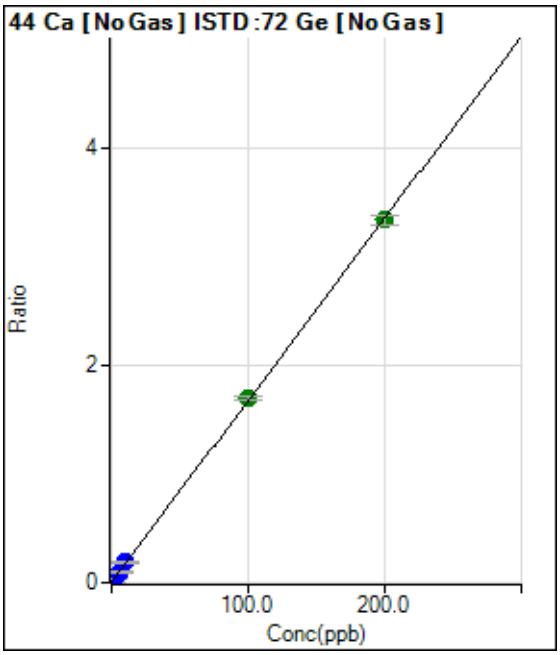


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	0.4
2	☐	200.000	168.011	253.34	0.0006	P	23.5
3	☐	500.000	489.204	703.37	0.0015	P	8.5
4	☐	1000.000	1052.970	1486.77	0.0032	P	13.5
5	☐	10000.000	10221.681	13710.35	0.0309	P	0.6
6	☐	20000.000	19887.101	26245.32	0.0602	P	2.4

y = 3.0232E-006 * x + 4.4168E-005
R = 0.9999
DL = 0.1652
BEC = 14.61

Weight: <None>
Min Conc: <None>

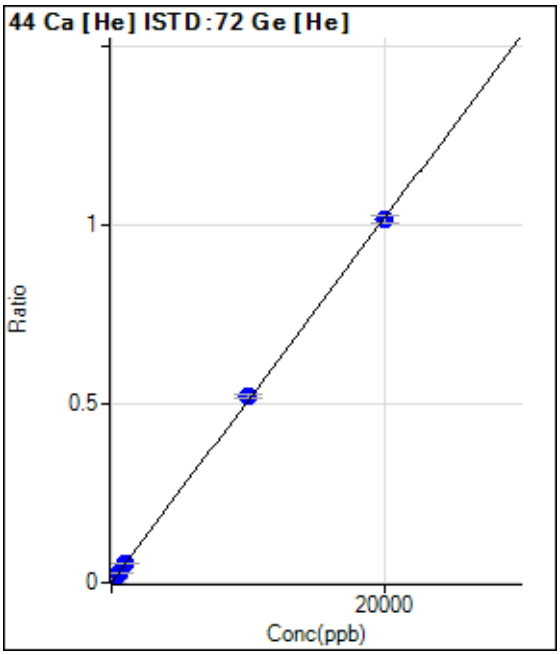
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5771.33	0.0029	P	4.0
2	☐	2.000	2.128	77588.00	0.0384	P	2.5
3	☐	5.000	5.599	192849.64	0.0964	P	1.5
4	☐	10.000	10.942	374077.34	0.1857	P	3.3
5	☐	100.000	101.256	3326166.62	1.6942	A	2.6
6	☐	200.000	199.309	6330483.03	3.3320	A	2.5

y = 0.0167 * x + 0.0029
R = 1.0000
DL = 0.0208
BEC = 0.1736

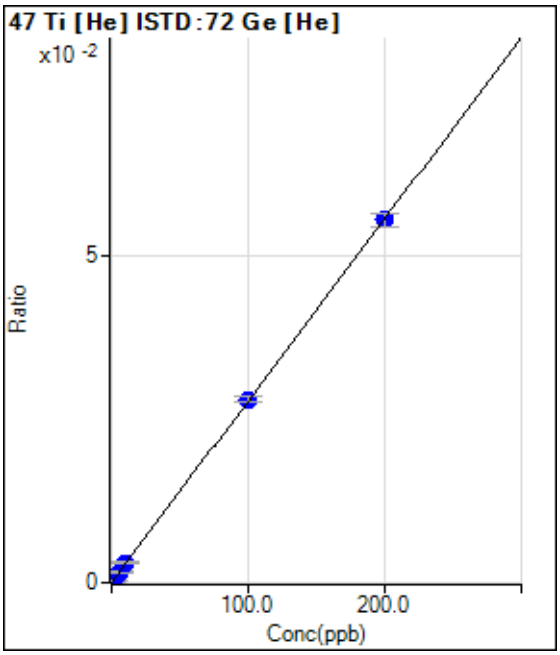
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0006	P	14.0
2	☐	200.000	201.900	4984.31	0.0109	P	4.6
3	☐	500.000	527.056	12656.03	0.0274	P	1.5
4	☐	1000.000	1037.499	24608.84	0.0534	P	0.9
5	☐	10000.000	10194.934	230097.37	0.5194	P	1.8
6	☐	20000.000	19899.963	441983.26	1.0132	P	2.0

y = 5.0888E-005 * x + 5.8136E-004
R = 0.9999
DL = 4.813
BEC = 11.42

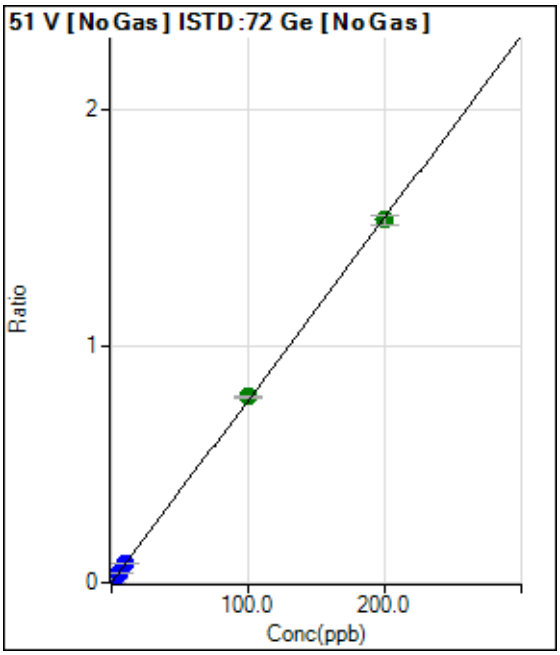
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.8
2	☐	2.000	1.332	183.33	0.0004	P	13.7
3	☐	5.000	5.692	743.37	0.0016	P	15.9
4	☐	10.000	10.781	1393.43	0.0030	P	13.1
5	☐	100.000	100.702	12402.45	0.0280	P	3.0
6	☐	200.000	199.599	24188.27	0.0555	P	3.6

y = 2.7769E-004 * x + 2.9527E-005
R = 1.0000
DL = 0.3662
BEC = 0.1063

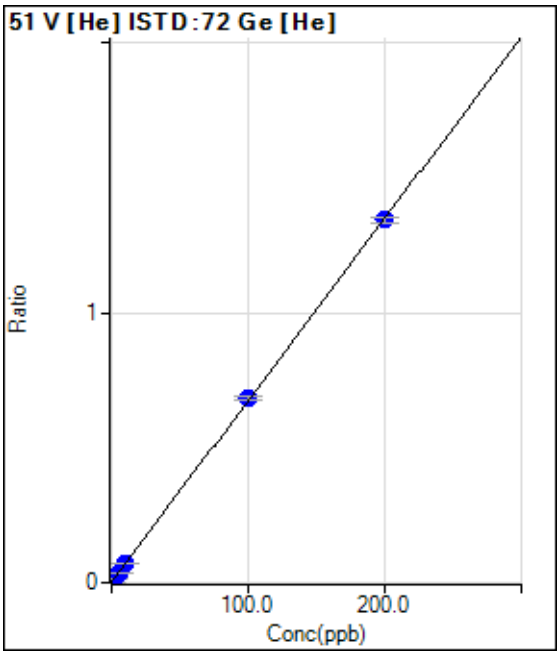
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2518.39	-0.0013	P	-23.1
2	☐	2.000	2.056	29390.61	0.0146	P	5.1
3	☐	5.000	5.445	81334.77	0.0407	P	3.0
4	☐	10.000	10.678	163119.60	0.0810	P	3.2
5	☐	100.000	101.948	1539027.15	0.7838	A	0.6
6	☐	200.000	198.980	2908944.54	1.5310	A	2.6

y = 0.0077 * x - 0.0013
R = 0.9999
DL = 0.1138
BEC = -0.1645

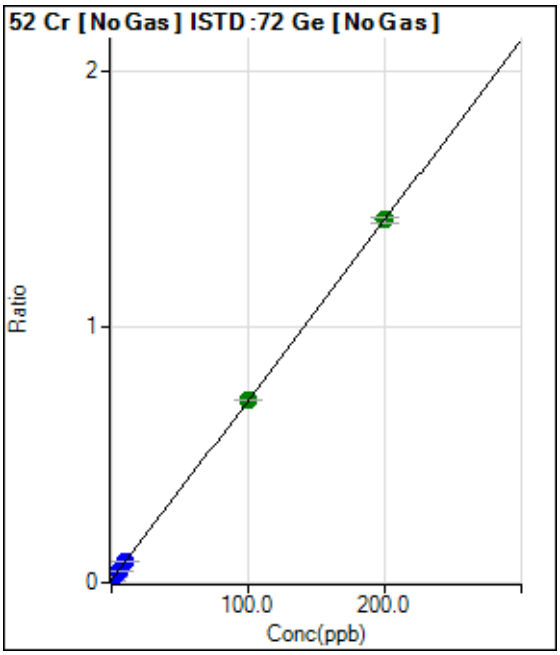
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	691.72	0.0015	P	18.2
2	☐	2.000	2.051	7041.15	0.0153	P	6.3
3	☐	5.000	5.392	17465.29	0.0378	P	4.6
4	☐	10.000	10.114	32085.89	0.0696	P	1.0
5	☐	100.000	101.181	302392.42	0.6826	P	2.1
6	☐	200.000	199.394	586087.44	1.3436	P	1.4

y = 0.0067 * x + 0.0015
R = 1.0000
DL = 0.1241
BEC = 0.2269

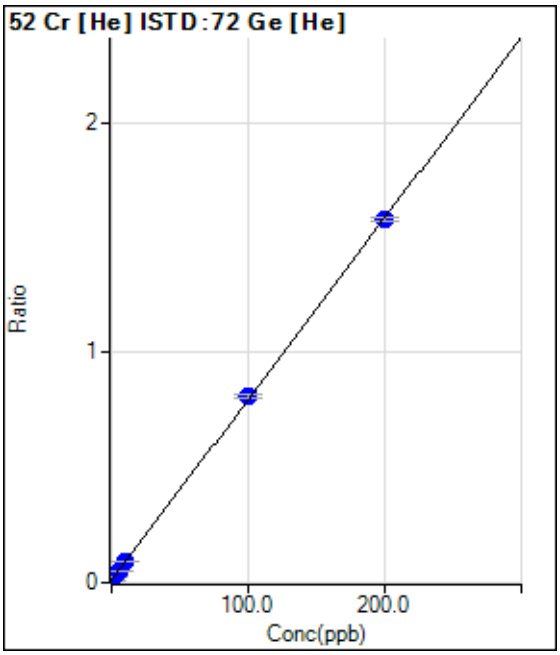
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17571.58	0.0088	P	2.2
2	☐	2.000	2.024	46569.31	0.0231	P	0.9
3	☐	5.000	5.381	93390.27	0.0467	P	2.7
4	☐	10.000	10.514	166852.65	0.0828	P	3.0
5	☐	100.000	99.963	1398680.03	0.7123	A	0.1
6	☐	200.000	199.983	2690829.65	1.4162	A	1.8

y = 0.0070 * x + 0.0088
R = 1.0000
DL = 0.08234
BEC = 1.254

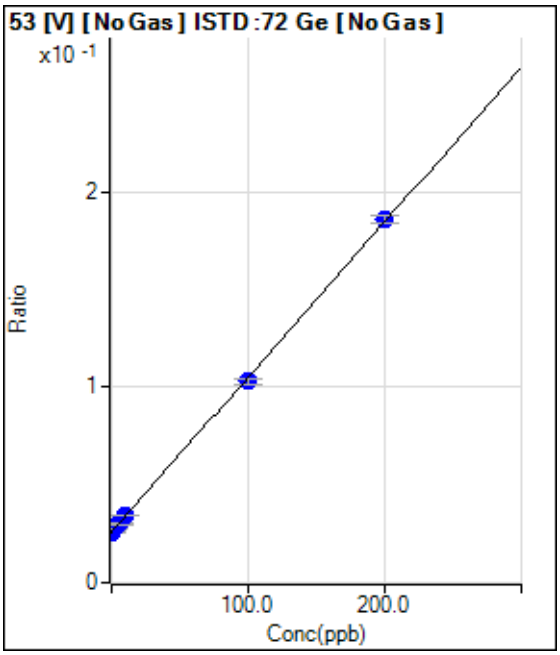
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4410.78	0.0097	P	10.3
2	☐	2.000	1.995	11678.51	0.0254	P	4.0
3	☐	5.000	5.302	23760.97	0.0514	P	2.5
4	☐	10.000	10.497	42559.91	0.0923	P	1.2
5	☐	100.000	101.569	358274.84	0.8087	P	2.0
6	☐	200.000	199.183	687712.57	1.5766	P	1.0

y = 0.0079 * x + 0.0097
R = 1.0000
DL = 0.3811
BEC = 1.239

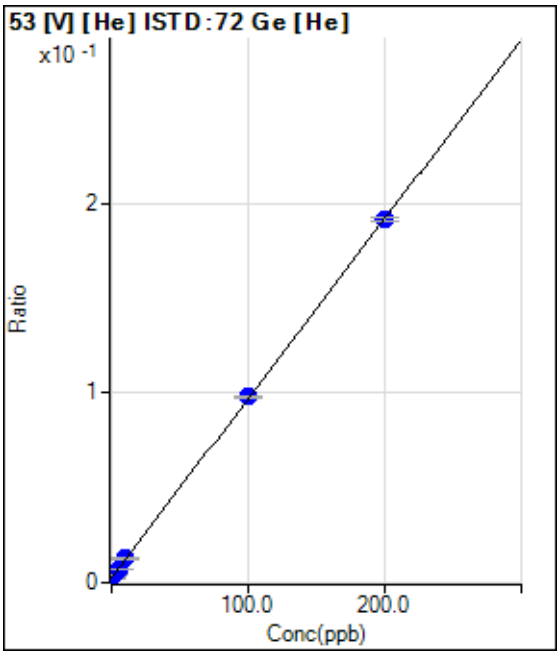
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51701.11	0.0260	P	1.8
2	☐	2.000	1.744	55218.28	0.0274	P	0.8
3	☐	5.000	5.334	60399.85	0.0302	P	1.9
4	☐	10.000	10.452	69027.11	0.0343	P	0.9
5	☐	100.000	97.272	202294.15	0.1030	P	2.7
6	☐	200.000	201.336	352388.36	0.1855	P	2.3

y = 7.9220E-004 * x + 0.0260
R = 0.9999
DL = 1.813
BEC = 32.79

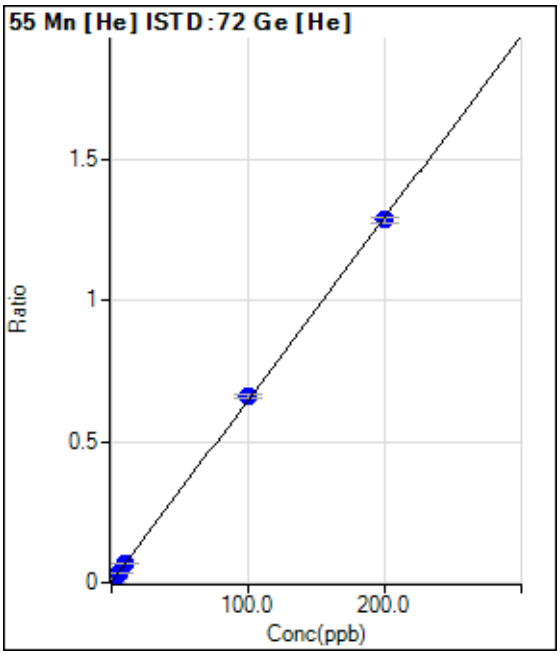
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1156.74	0.0026	P	7.4
2	☐	2.000	1.653	1890.17	0.0041	P	4.5
3	☐	5.000	4.888	3313.79	0.0072	P	11.2
4	☐	10.000	10.784	5878.04	0.0127	P	3.4
5	☐	100.000	100.803	43342.26	0.0978	P	1.4
6	☐	200.000	199.565	83393.25	0.1912	P	1.2

y = 9.4518E-004 * x + 0.0026
R = 1.0000
DL = 0.6023
BEC = 2.703

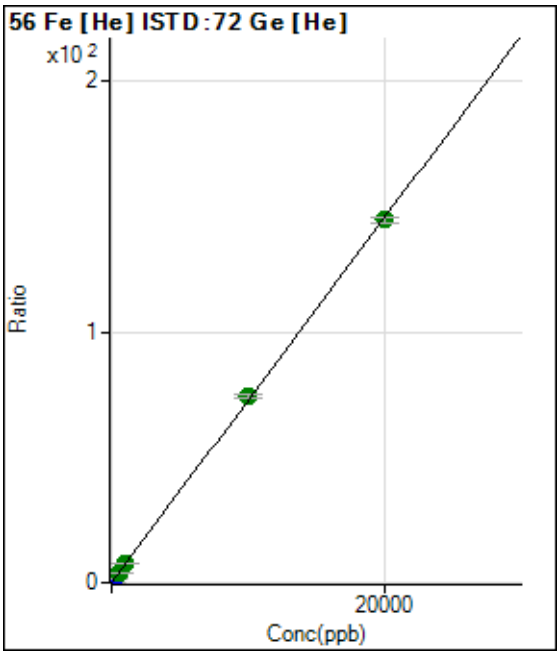
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	836.71	0.0018	P	26.5
2	☐	2.000	2.020	6831.82	0.0149	P	6.8
3	☐	5.000	5.342	16770.56	0.0363	P	0.1
4	☐	10.000	10.675	32599.14	0.0707	P	0.8
5	☐	100.000	102.189	292885.65	0.6611	P	2.7
6	☐	200.000	198.863	560427.74	1.2847	P	1.6

y = 0.0065 * x + 0.0018
R = 0.9999
DL = 0.2274
BEC = 0.2865

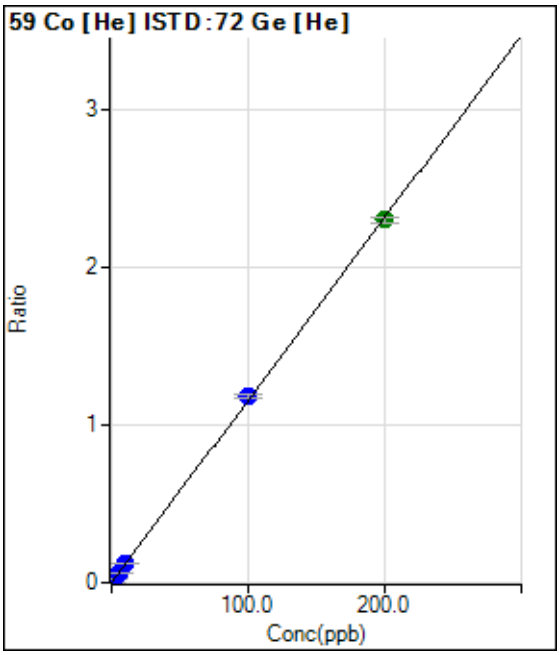
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13960.67	0.0308	P	1.3
2	☐	200.000	208.202	709840.12	1.5461	P	1.7
3	☐	500.000	548.082	1856448.04	4.0196	A	0.3
4	☐	1000.000	1062.202	3578251.41	7.7612	A	1.2
5	☐	10000.000	10227.944	32990701.18	74.4663	A	1.3
6	☐	20000.000	19881.634	63128550.73	144.7226	A	1.6

y = 0.0073 * x + 0.0308
R = 0.9999
DL = 0.1677
BEC = 4.236

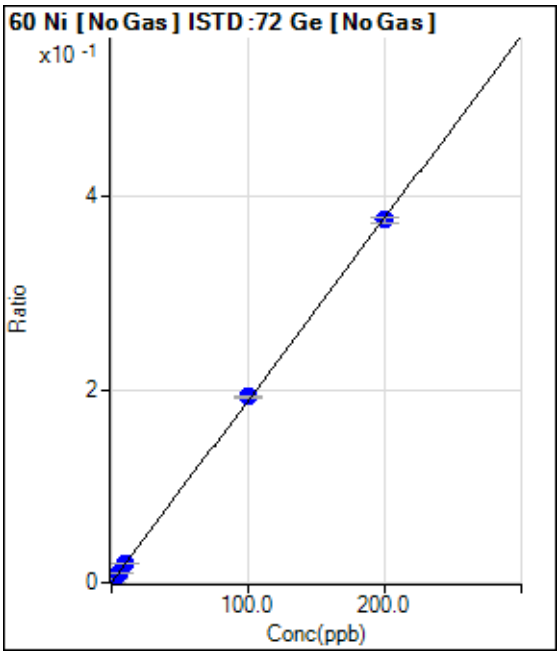
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0001	P	43.1
2	☐	2.000	2.003	10664.37	0.0232	P	1.7
3	☐	5.000	5.268	28162.74	0.0610	P	2.9
4	☐	10.000	10.472	55864.56	0.1212	P	3.1
5	☐	100.000	102.146	523360.12	1.1813	P	1.4
6	☐	200.000	198.896	1003303.24	2.3002	A	1.9

y = 0.0116 * x + 5.8855E-005
R = 0.9999
DL = 0.006576
BEC = 0.005089

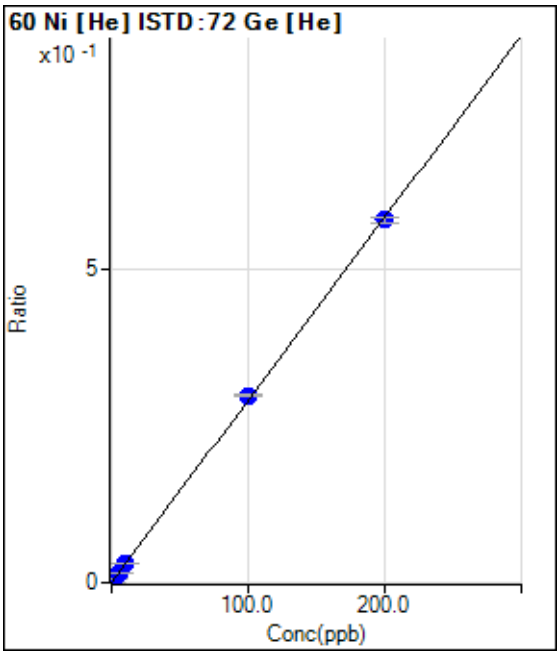
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0002	P	8.3
2	☐	2.000	2.178	8629.56	0.0043	P	3.4
3	☐	5.000	5.496	21079.92	0.0105	P	2.7
4	☐	10.000	10.689	40995.24	0.0203	P	2.2
5	☐	100.000	101.802	377753.68	0.1924	P	1.8
6	☐	200.000	199.050	714450.56	0.3760	P	1.7

y = 0.0019 * x + 1.6247E-004
R = 0.9999
DL = 0.0215
BEC = 0.08604

Weight: <None>
Min Conc: <None>

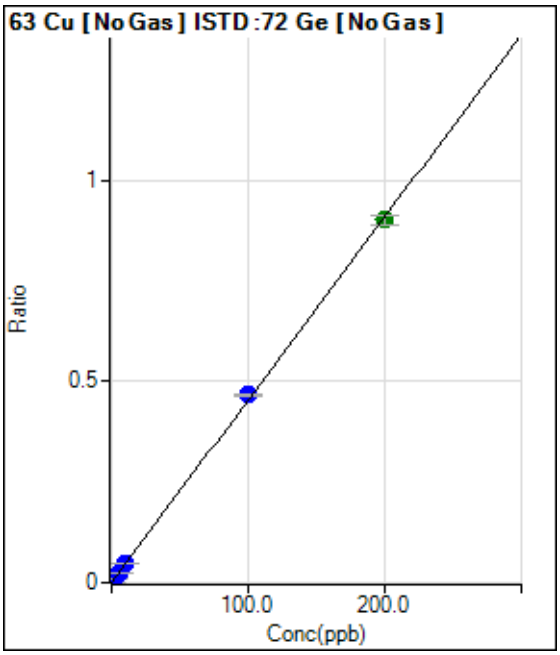


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0002	P	26.7
2	☐	2.000	2.018	2797.00	0.0061	P	2.1
3	☐	5.000	5.263	7175.36	0.0155	P	6.7
4	☐	10.000	10.475	14154.21	0.0307	P	1.5
5	☐	100.000	102.353	132058.51	0.2981	P	1.3
6	☐	200.000	198.793	252444.39	0.5787	P	1.4

y = 0.0029 * x + 2.2093E-004
R = 0.9999
DL = 0.06075
BEC = 0.07592

Weight: <None>
Min Conc: <None>

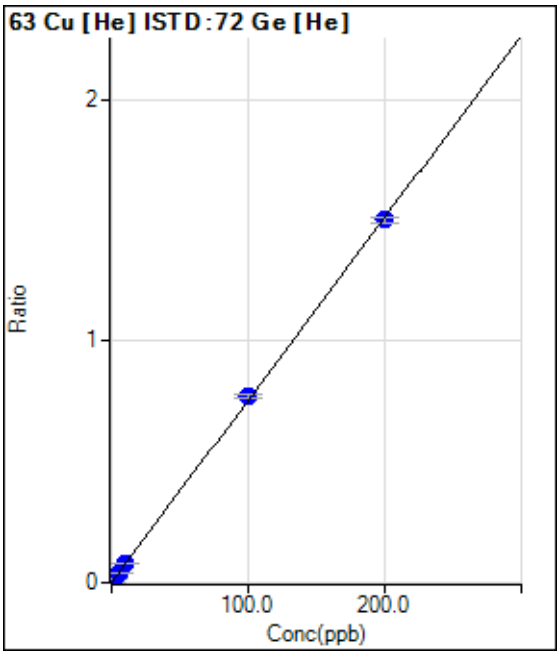
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	756.70	0.0004	P	9.3
2	☐	2.000	2.080	19808.10	0.0098	P	6.9
3	☐	5.000	5.466	50356.51	0.0252	P	1.6
4	☐	10.000	10.808	99558.94	0.0494	P	2.6
5	☐	100.000	102.627	914856.21	0.4660	P	1.8
6	☐	200.000	198.633	1712812.01	0.9015	A	3.0

y = 0.0045 * x + 3.8057E-004
R = 0.9999
DL = 0.02331
BEC = 0.08389

Weight: <None>
Min Conc: <None>

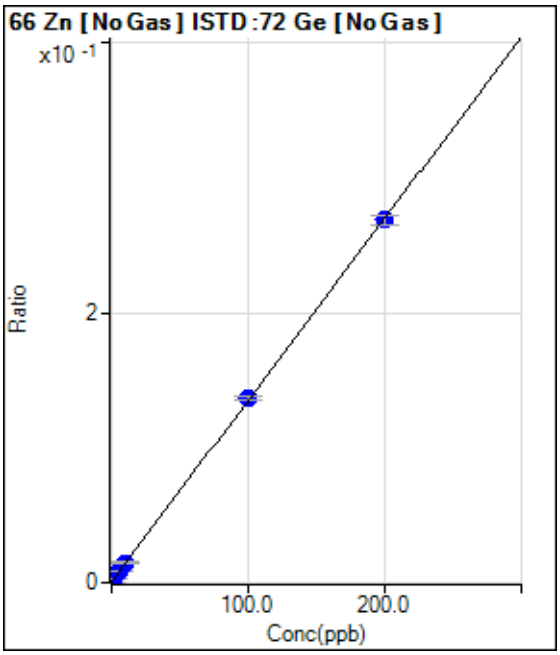


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	300.01	0.0007	P	8.5
2	☐	2.000	1.915	6938.54	0.0151	P	1.9
3	☐	5.000	5.167	18319.22	0.0397	P	2.9
4	☐	10.000	10.545	37000.50	0.0803	P	0.7
5	☐	100.000	102.097	341699.27	0.7713	P	2.4
6	☐	200.000	198.921	655212.12	1.5021	P	1.4

y = 0.0075 * x + 6.6240E-004
R = 0.9999
DL = 0.02231
BEC = 0.08776

Weight: <None>
Min Conc: <None>

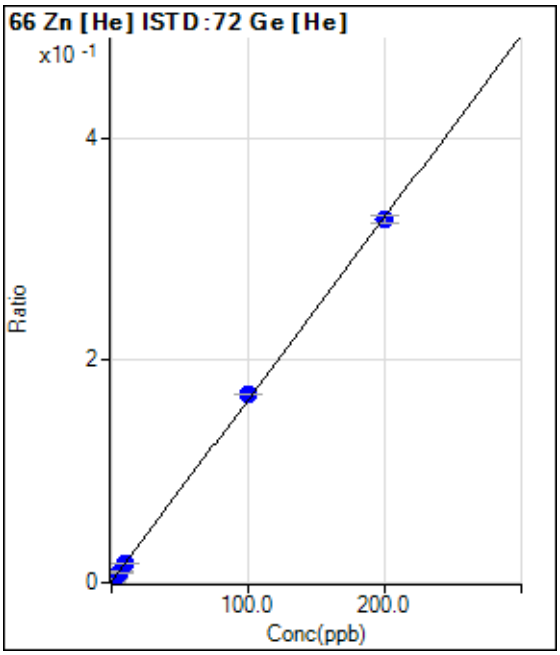
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1336.75	0.0007	P	1.8
2	☐	2.000	1.996	6768.50	0.0034	P	4.7
3	☐	5.000	5.432	15942.96	0.0080	P	1.9
4	☐	10.000	10.619	30103.76	0.0149	P	3.2
5	☐	100.000	101.187	268319.22	0.1367	P	1.3
6	☐	200.000	199.365	510302.34	0.2686	P	2.5

y = 0.0013 * x + 6.7122E-004
R = 1.0000
DL = 0.02651
BEC = 0.4995

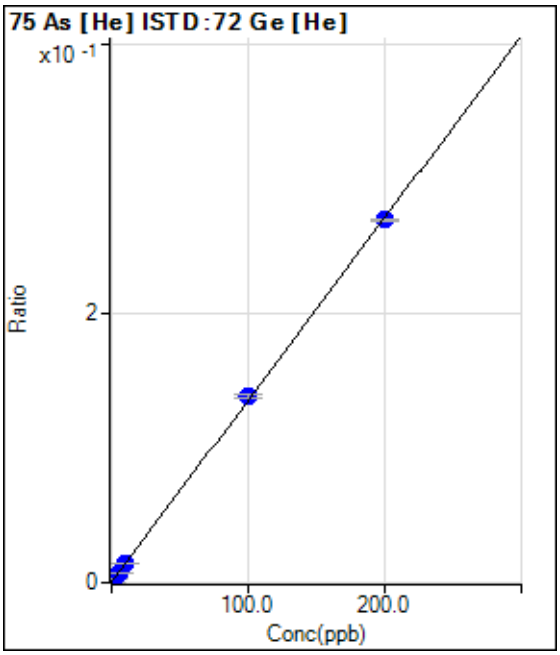
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0008	P	24.5
2	☐	2.000	1.948	1830.16	0.0040	P	2.8
3	☐	5.000	5.311	4384.12	0.0095	P	2.8
4	☐	10.000	10.270	8119.24	0.0176	P	3.9
5	☐	100.000	102.712	74876.06	0.1690	P	0.3
6	☐	200.000	198.623	142235.71	0.3261	P	2.2

y = 0.0016 * x + 7.9553E-004
R = 0.9999
DL = 0.3566
BEC = 0.4858

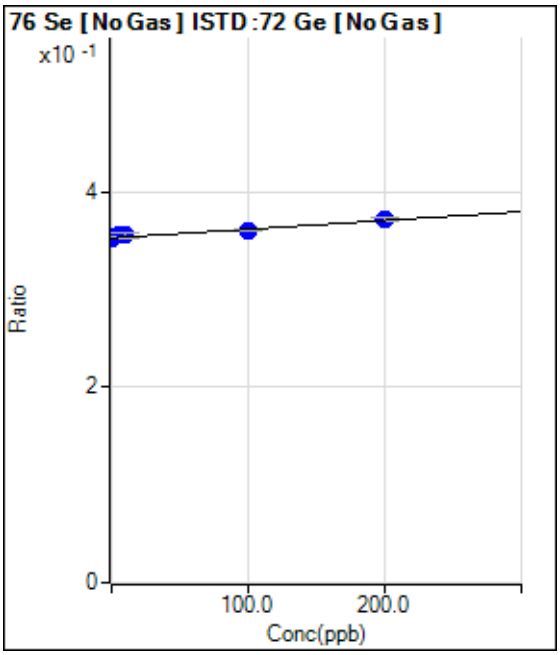
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.89	0.0004	P	10.5
2	☐	2.000	2.007	1408.97	0.0031	P	1.4
3	☐	5.000	5.318	3488.24	0.0076	P	4.3
4	☐	10.000	10.132	6488.27	0.0141	P	0.5
5	☐	100.000	101.933	61320.64	0.1384	P	2.5
6	☐	200.000	199.019	117737.15	0.2699	P	0.6

y = 0.0014 * x + 3.5094E-004
R = 0.9999
DL = 0.08171
BEC = 0.2591

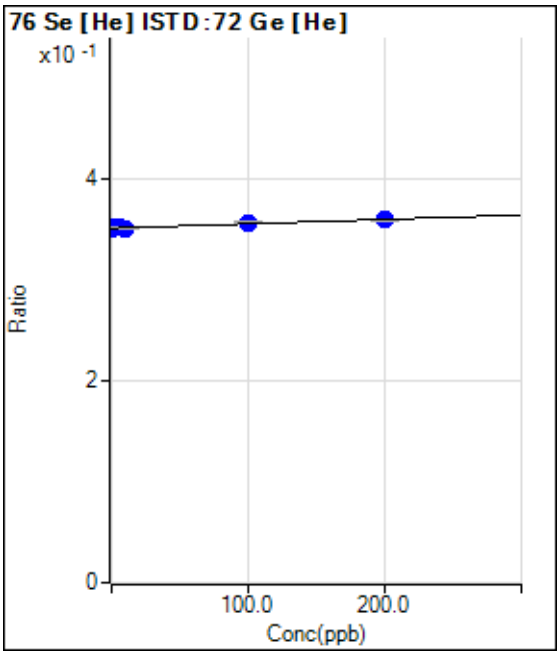
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	702397.83	0.3528	P	1.2
2	☐	2.000	23.074	716338.09	0.3549	P	1.2
3	☐	5.000	38.055	712523.82	0.3563	P	1.0
4	☐	10.000	36.079	717495.17	0.3561	P	1.6
5	☐	100.000	84.425	707720.46	0.3604	P	0.7
6	☐	200.000	205.446	705516.13	0.3713	P	1.1

y = 9.0016E-005 * x + 0.3528
R = 0.9769
DL = 135.3
BEC = 3920

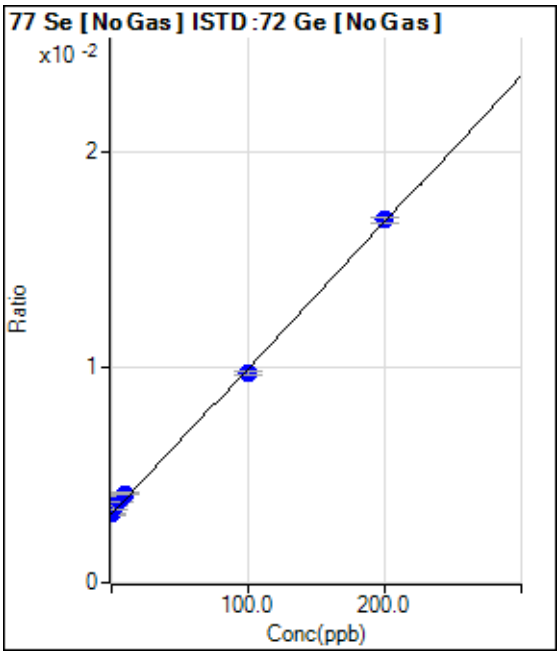
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	159172.62	0.3515	P	0.8
2	☐	2.000	43.717	162259.45	0.3534	P	1.0
3	☐	5.000	12.097	162586.62	0.3520	P	0.8
4	☐	10.000	3.223	162117.61	0.3517	P	0.1
5	☐	100.000	126.608	158178.68	0.3570	P	0.6
6	☐	200.000	186.440	156889.82	0.3597	P	0.3

y = 4.3716E-005 * x + 0.3515
R = 0.9664
DL = 186.9
BEC = 8041

Weight: <None>
Min Conc: <None>

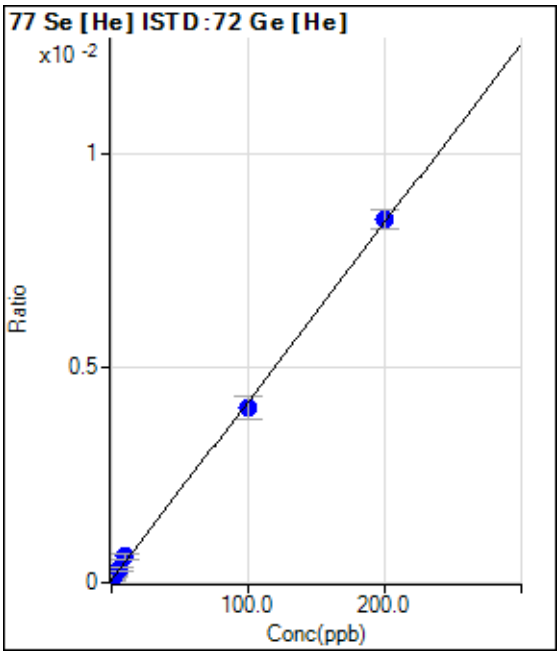


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6321.60	0.0032	P	2.4
2	☐	2.000	4.715	7055.30	0.0035	P	5.0
3	☐	5.000	10.398	7762.36	0.0039	P	5.3
4	☐	10.000	13.910	8302.72	0.0041	P	2.5
5	☐	100.000	96.607	19117.22	0.0097	P	2.2
6	☐	200.000	201.339	32014.91	0.0168	P	1.9

y = 6.7914E-005 * x + 0.0032
R = 0.9994
DL = 3.417
BEC = 46.76

Weight: <None>
Min Conc: <None>

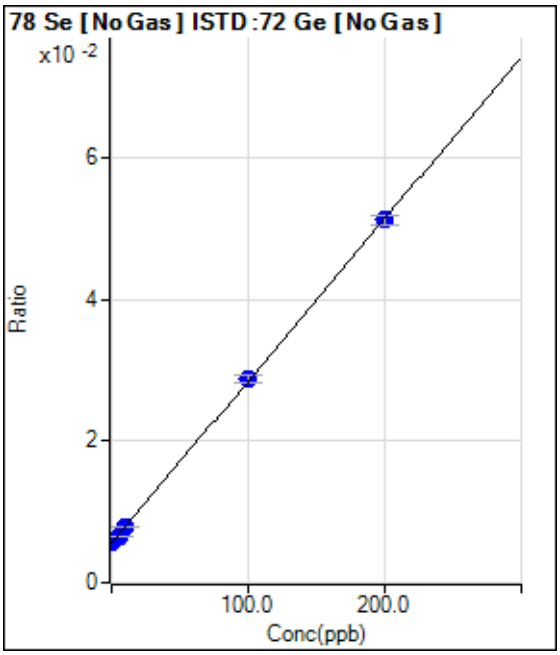
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0001	P	77.9
2	☐	2.000	2.249	70.00	0.0002	P	37.5
3	☐	5.000	6.214	146.67	0.0003	P	38.4
4	☐	10.000	13.543	286.68	0.0006	P	20.8
5	☐	100.000	96.407	1803.49	0.0041	P	12.6
6	☐	200.000	201.586	3683.90	0.0084	P	5.1

y = 4.1599E-005 * x + 5.8806E-005
R = 0.9996
DL = 3.303
BEC = 1.414

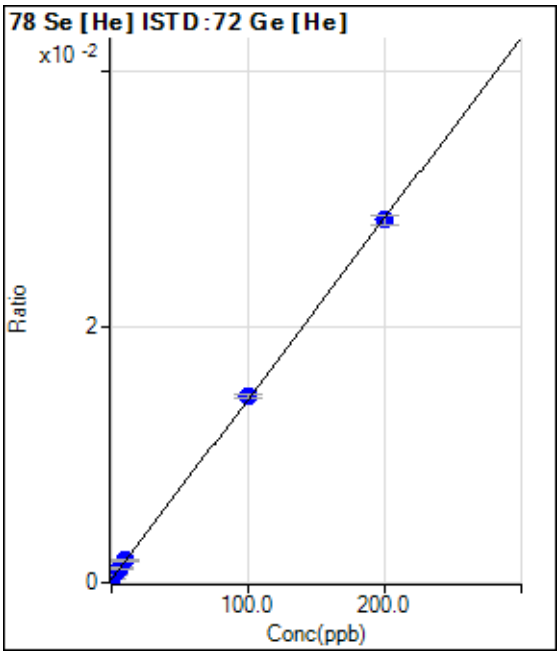
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11121.43	0.0056	P	4.1
2	☐	2.000	1.843	12128.96	0.0060	P	4.0
3	☐	5.000	4.344	13166.61	0.0066	P	1.2
4	☐	10.000	9.861	15809.52	0.0078	P	2.5
5	☐	100.000	101.238	56431.74	0.0287	P	3.5
6	☐	200.000	199.406	97269.31	0.0512	P	2.6

y = 2.2872E-004 * x + 0.0056
R = 1.0000
DL = 2.991
BEC = 24.44

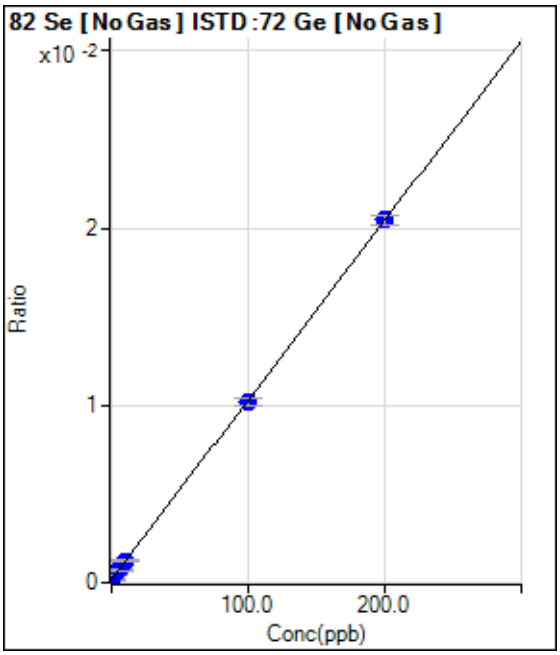
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.67	0.0003	P	11.9
2	☐	2.000	2.103	260.67	0.0006	P	5.4
3	☐	5.000	5.688	496.01	0.0011	P	11.0
4	☐	10.000	10.373	800.02	0.0017	P	6.4
5	☐	100.000	101.490	6466.23	0.0146	P	3.0
6	☐	200.000	199.218	12383.04	0.0284	P	2.3

y = 1.4114E-004 * x + 2.7093E-004
R = 1.0000
DL = 0.687
BEC = 1.92

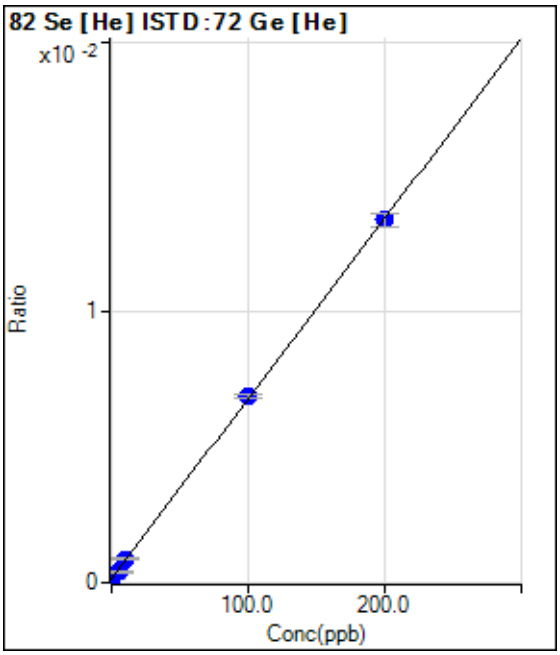
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	343.35	0.0002	P	31.3
2	☐	2.000	2.379	833.38	0.0004	P	11.1
3	☐	5.000	5.275	1413.43	0.0007	P	9.1
4	☐	10.000	10.423	2473.61	0.0012	P	5.4
5	☐	100.000	99.131	20035.21	0.0102	P	4.1
6	☐	200.000	200.403	38859.97	0.0205	P	2.7

y = 1.0120E-004 * x + 1.7258E-004
R = 1.0000
DL = 1.6
BEC = 1.705

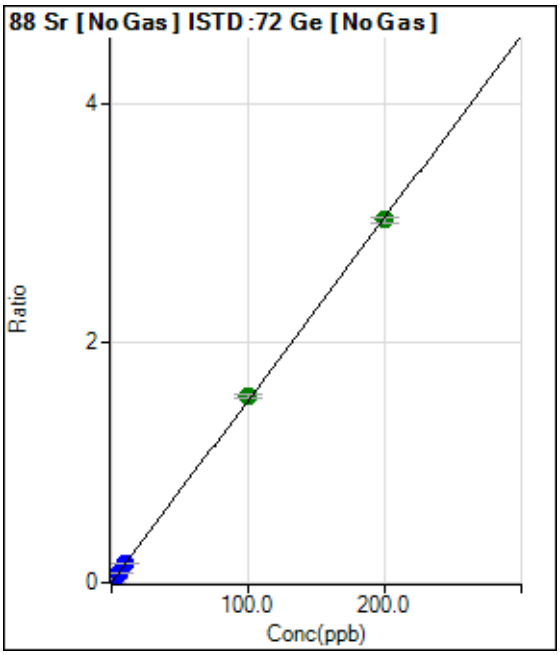
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	29.3
2	☐	2.000	2.369	133.33	0.0003	P	9.1
3	☐	5.000	3.969	183.34	0.0004	P	22.3
4	☐	10.000	11.135	403.35	0.0009	P	4.3
5	☐	100.000	101.438	3053.74	0.0069	P	1.5
6	☐	200.000	199.246	5851.36	0.0134	P	3.7

y = 6.6648E-005 * x + 1.3260E-004
R = 0.9999
DL = 1.748
BEC = 1.99

Weight: <None>
Min Conc: <None>

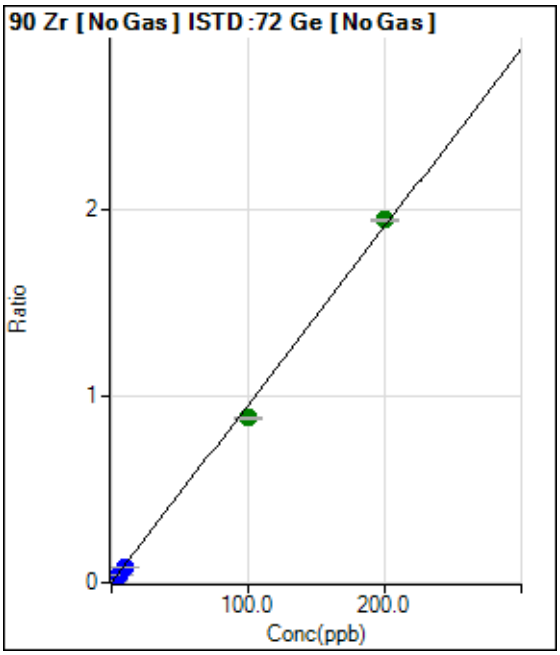


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	813.38	0.0004	P	13.3
2	☐	2.000	2.037	63409.97	0.0314	P	2.6
3	☐	5.000	5.344	163441.46	0.0817	P	2.8
4	☐	10.000	10.495	322598.16	0.1601	P	3.5
5	☐	100.000	102.045	3049689.64	1.5533	A	2.4
6	☐	200.000	198.944	5753182.21	3.0279	A	1.6

y = 0.0152 * x + 4.0848E-004
R = 0.9999
DL = 0.01071
BEC = 0.02684

Weight: <None>
Min Conc: <None>

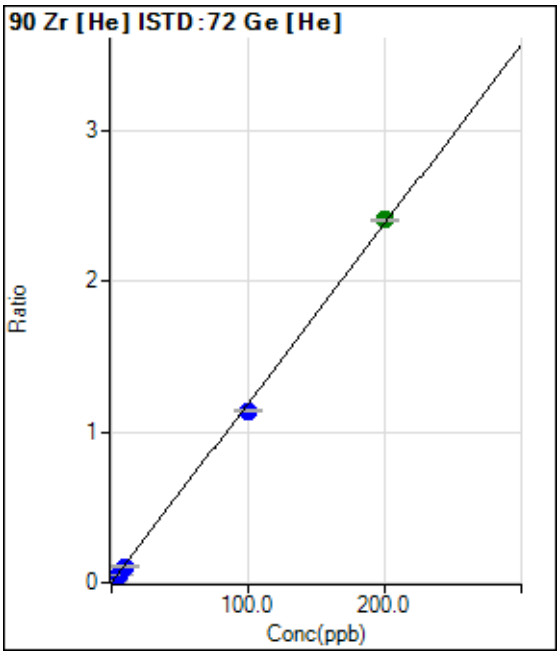
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1076.73	0.0005	P	9.7
2	☐	2.000	1.533	30538.48	0.0151	P	3.7
3	☐	5.000	4.193	80900.31	0.0404	P	1.3
4	☐	10.000	8.645	166887.54	0.0828	P	1.9
5	☐	100.000	92.482	1729284.56	0.8808	A	2.0
6	☐	200.000	203.852	3687609.22	1.9408	A	0.2

y = 0.0095 * x + 5.4006E-004
R = 0.9991
DL = 0.01654
BEC = 0.05674

Weight: <None>
Min Conc: <None>

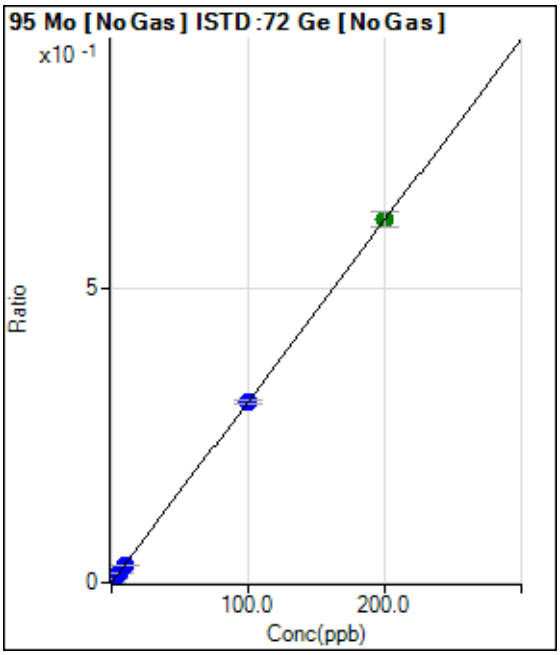


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.36	0.0013	P	7.1
2	☐	2.000	1.496	8769.70	0.0191	P	2.0
3	☐	5.000	4.237	23888.35	0.0517	P	4.1
4	☐	10.000	8.981	49879.94	0.1082	P	1.3
5	☐	100.000	95.627	504845.94	1.1395	P	1.5
6	☐	200.000	202.262	1050754.49	2.4088	A	0.8

y = 0.0119 * x + 0.0013
R = 0.9997
DL = 0.02289
BEC = 0.1082

Weight: <None>
Min Conc: <None>

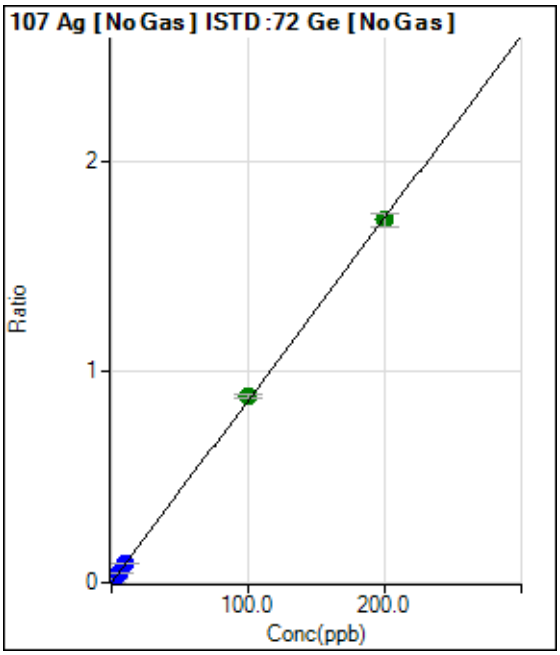
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0001	P	20.6
2	☐	2.000	1.958	12385.95	0.0061	P	5.4
3	☐	5.000	5.124	31791.50	0.0159	P	0.5
4	☐	10.000	9.934	61900.15	0.0307	P	1.5
5	☐	100.000	99.461	602044.85	0.3066	P	2.5
6	☐	200.000	200.270	1172972.54	0.6173	A	4.1

y = 0.0031 * x + 1.0245E-004
R = 1.0000
DL = 0.02053
BEC = 0.03324

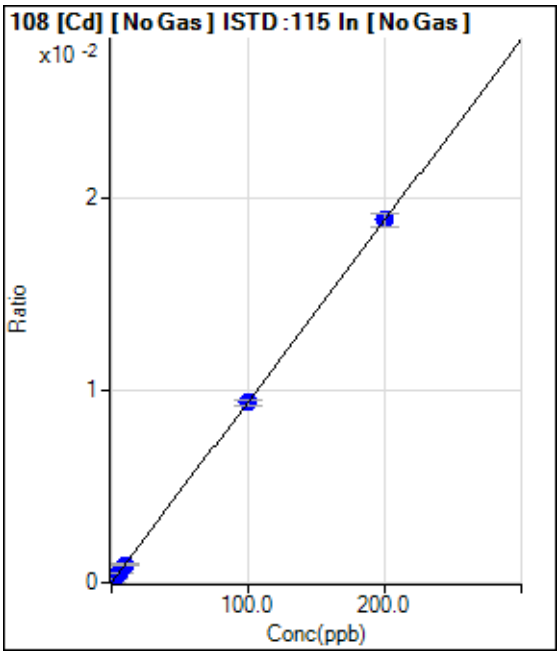
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0001	P	25.7
2	☐	2.000	2.018	35367.70	0.0175	P	5.6
3	☐	5.000	5.337	92491.04	0.0462	P	1.7
4	☐	10.000	10.524	183597.01	0.0911	P	3.5
5	☐	100.000	102.017	1733248.77	0.8828	A	2.2
6	☐	200.000	198.957	3270822.87	1.7216	A	3.4

y = 0.0087 * x + 6.3812E-005
R = 0.9999
DL = 0.00568
BEC = 0.007375

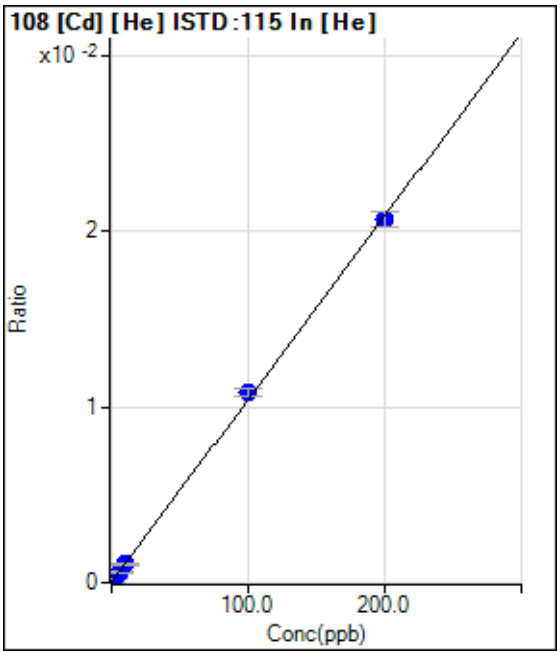
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	1.869	543.35	0.0002	P	11.3
3	☐	5.000	5.235	1506.79	0.0005	P	6.4
4	☐	10.000	9.943	2883.70	0.0009	P	6.9
5	☐	100.000	99.330	27545.65	0.0094	P	3.6
6	☐	200.000	200.334	54723.37	0.0189	P	3.9

y = 9.4185E-005 * x + 2.1833E-006
R = 1.0000
DL = 0.06024
BEC = 0.02318

Weight: <None>
Min Conc: <None>

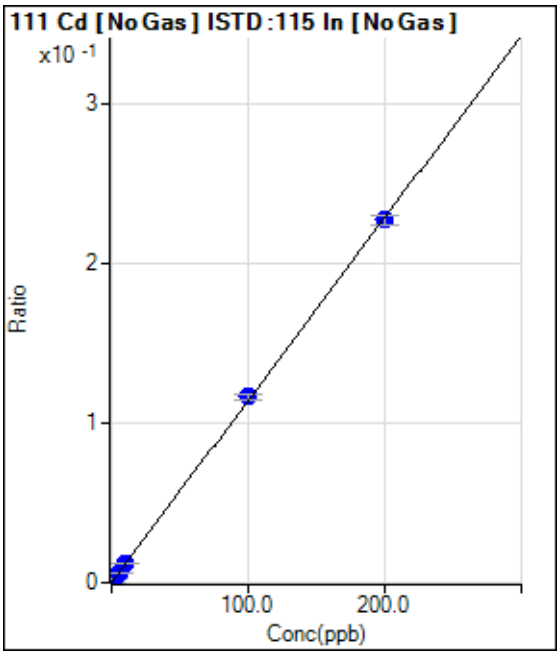


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.7
2	☐	2.000	1.960	203.34	0.0002	P	15.3
3	☐	5.000	5.386	533.35	0.0006	P	12.5
4	☐	10.000	10.046	973.39	0.0011	P	5.8
5	☐	100.000	103.853	9536.91	0.0108	P	3.7
6	☐	200.000	198.062	17902.38	0.0207	P	4.3

y = 1.0422E-004 * x + 1.8274E-005
R = 0.9997
DL = 0.4823
BEC = 0.1753

Weight: <None>
Min Conc: <None>

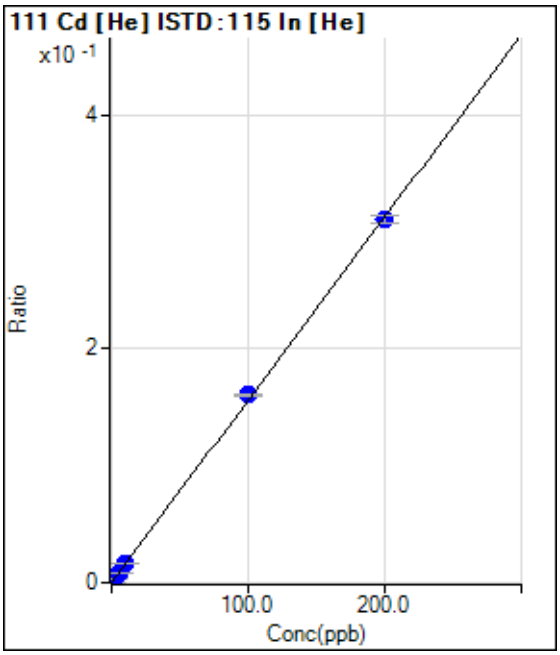
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.15	0.0000	P	-86.6
2	☐	2.000	2.001	6955.96	0.0023	P	8.1
3	☐	5.000	5.115	17754.35	0.0058	P	4.9
4	☐	10.000	10.299	36087.51	0.0117	P	1.2
5	☐	100.000	101.932	342407.85	0.1163	P	3.1
6	☐	200.000	199.016	658633.84	0.2271	P	2.7

y = 0.0011 * x - 2.3426E-006
R = 0.9999
DL = 0.005335
BEC = -0.002053

Weight: <None>
Min Conc: <None>

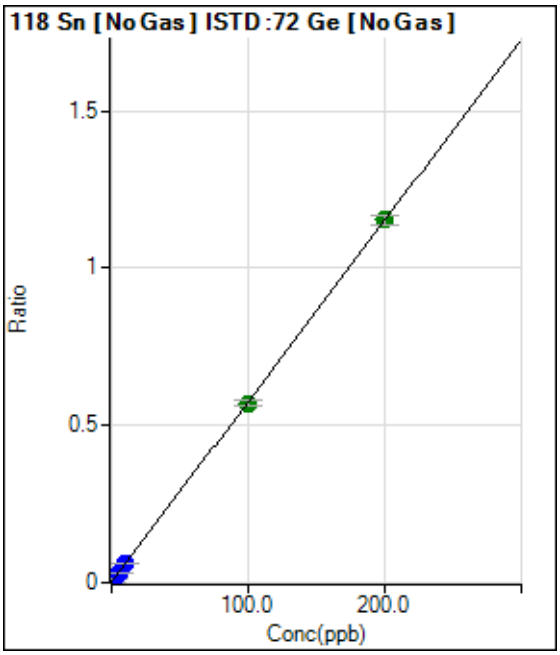


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.22	0.0000	P	99.5
2	☐	2.000	2.021	2908.52	0.0032	P	4.3
3	☐	5.000	5.232	7544.24	0.0082	P	4.7
4	☐	10.000	10.349	14805.16	0.0162	P	2.3
5	☐	100.000	102.722	141278.45	0.1606	P	1.3
6	☐	200.000	198.615	269083.87	0.3105	P	2.1

y = 0.0016 * x + 2.3266E-005
R = 0.9999
DL = 0.04442
BEC = 0.01488

Weight: <None>
Min Conc: <None>

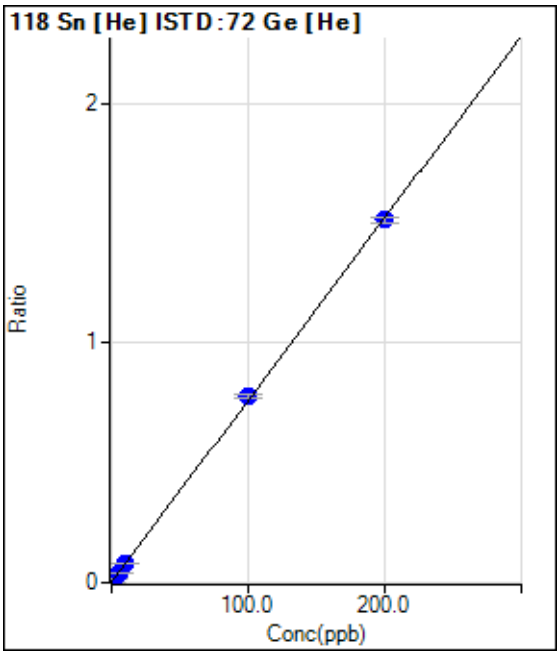
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2020.20	0.0010	P	10.0
2	☐	2.000	1.999	25264.53	0.0125	P	1.9
3	☐	5.000	5.115	60884.26	0.0304	P	1.4
4	☐	10.000	10.192	120158.52	0.0596	P	2.9
5	☐	100.000	99.190	1122193.63	0.5716	A	2.8
6	☐	200.000	200.393	2192002.89	1.1537	A	2.6

y = 0.0058 * x + 0.0010
R = 1.0000
DL = 0.05283
BEC = 0.1767

Weight: <None>
Min Conc: <None>

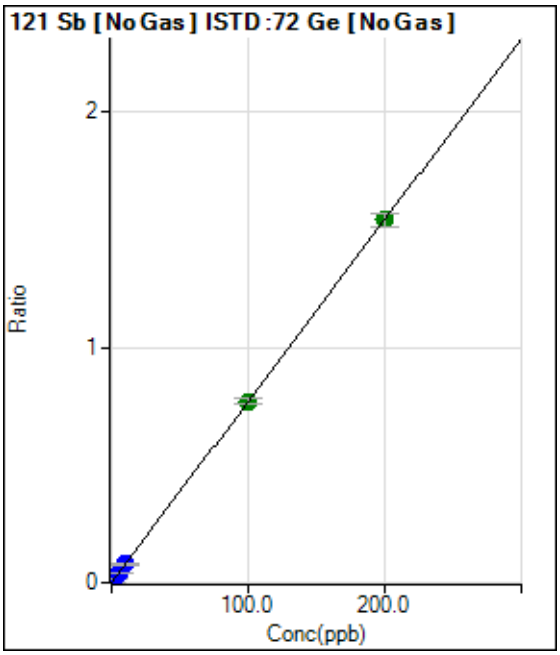


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	636.70	0.0014	P	17.4
2	☐	2.000	1.974	7528.97	0.0164	P	2.0
3	☐	5.000	5.110	18573.46	0.0402	P	2.0
4	☐	10.000	10.343	36862.01	0.0800	P	0.4
5	☐	100.000	101.817	343191.67	0.7747	P	2.0
6	☐	200.000	199.072	660089.94	1.5132	P	1.6

y = 0.0076 * x + 0.0014
R = 0.9999
DL = 0.09665
BEC = 0.1852

Weight: <None>
Min Conc: <None>

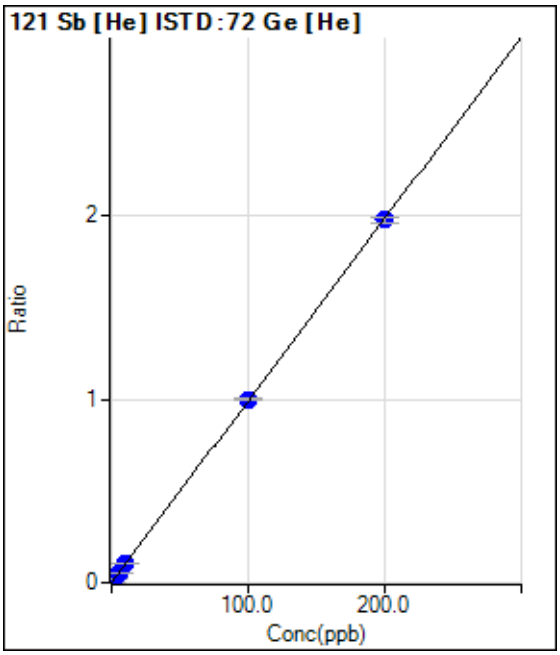
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.69	0.0002	P	16.7
2	☐	2.000	1.980	31230.98	0.0155	P	2.0
3	☐	5.000	5.105	79047.20	0.0395	P	1.7
4	☐	10.000	10.056	156424.26	0.0776	P	2.3
5	☐	100.000	99.783	1508347.32	0.7683	A	3.3
6	☐	200.000	200.103	2926705.17	1.5405	A	3.6

y = 0.0077 * x + 2.3379E-004
R = 1.0000
DL = 0.01522
BEC = 0.03037

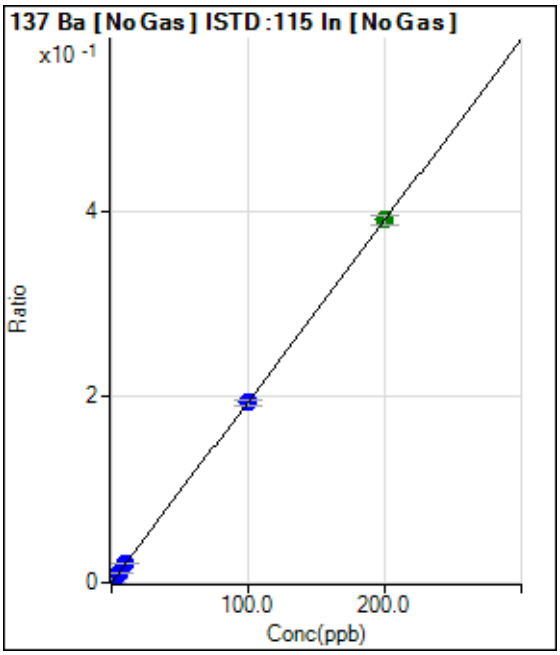
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.33	0.0003	P	11.8
2	☐	2.000	2.027	9360.17	0.0204	P	2.7
3	☐	5.000	5.077	23374.47	0.0506	P	1.0
4	☐	10.000	10.155	46535.98	0.1009	P	0.2
5	☐	100.000	100.947	443376.08	1.0008	P	1.5
6	☐	200.000	199.517	862648.16	1.9777	P	1.7

y = 0.0099 * x + 2.9454E-004
R = 1.0000
DL = 0.01055
BEC = 0.02972

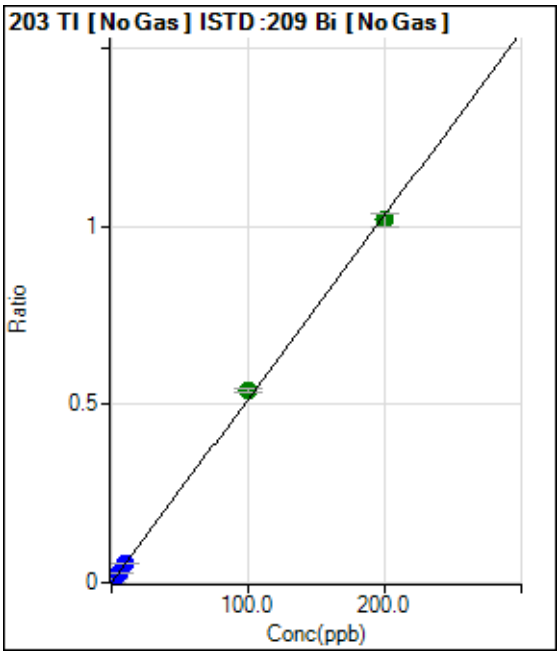
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0001	P	27.6
2	☐	2.000	2.006	12132.52	0.0040	P	3.6
3	☐	5.000	5.102	30476.07	0.0100	P	2.8
4	☐	10.000	10.151	60992.88	0.0199	P	0.5
5	☐	100.000	99.346	570445.41	0.1938	P	2.7
6	☐	200.000	200.317	1132954.83	0.3906	A	2.6

y = 0.0019 * x + 6.6741E-005
R = 1.0000
DL = 0.02834
BEC = 0.03423

Weight: <None>
Min Conc: <None>

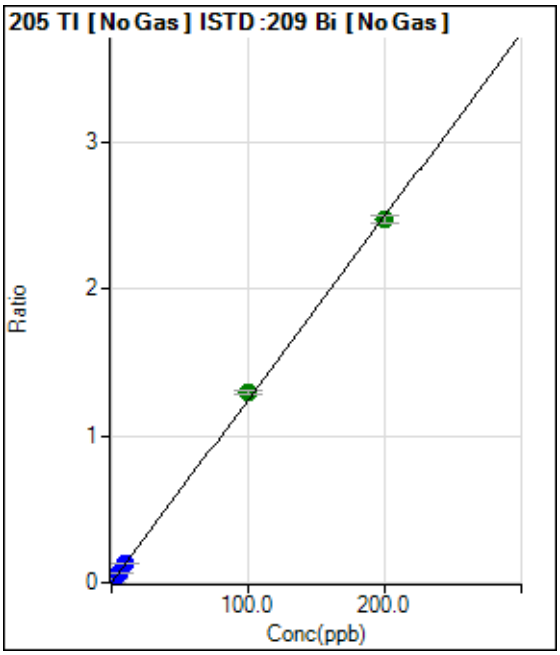


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	17.5
2	☐	2.000	1.839	28178.79	0.0095	P	5.1
3	☐	5.000	5.069	78099.81	0.0261	P	1.9
4	☐	10.000	10.224	156970.05	0.0527	P	1.1
5	☐	100.000	104.680	1551164.14	0.5394	A	2.2
6	☐	200.000	197.649	2924984.02	1.0184	A	3.7

y = 0.0052 * x + 2.1146E-005
R = 0.9996
DL = 0.002154
BEC = 0.004104

Weight: <None>
Min Conc: <None>

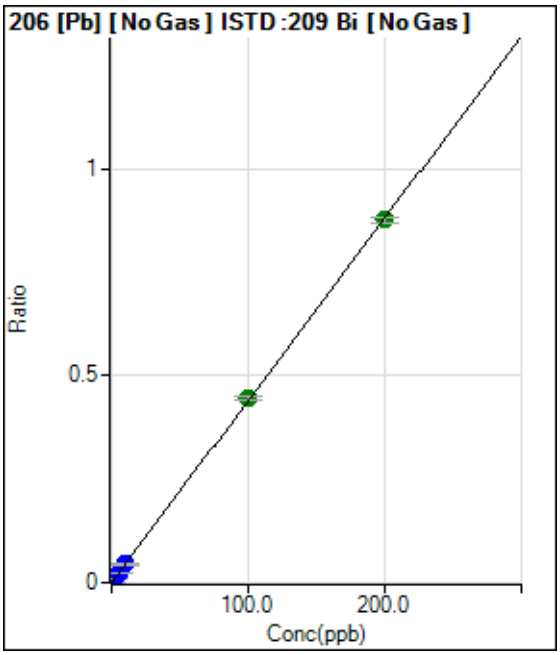
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0000	P	31.8
2	☐	2.000	1.814	67227.43	0.0227	P	5.3
3	☐	5.000	5.137	191454.63	0.0641	P	2.3
4	☐	10.000	10.141	376629.31	0.1264	P	0.7
5	☐	100.000	103.768	3719429.63	1.2933	A	2.2
6	☐	200.000	198.107	7092378.64	2.4691	A	2.2

y = 0.0125 * x + 4.8970E-005
R = 0.9997
DL = 0.003745
BEC = 0.003929

Weight: <None>
Min Conc: <None>

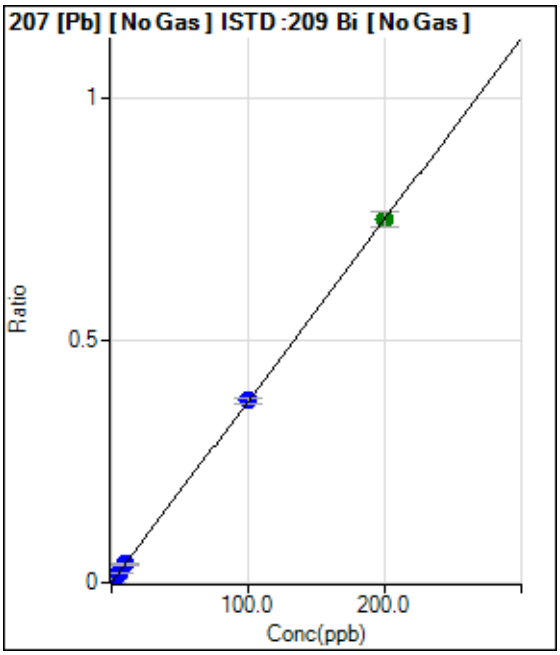


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	260.01	0.0001	P	16.9
2	☐	2.000	1.908	25195.72	0.0085	P	4.9
3	☐	5.000	4.998	65997.67	0.0221	P	1.8
4	☐	10.000	10.044	131942.11	0.0443	P	1.1
5	☐	100.000	101.424	1284297.25	0.4466	A	1.5
6	☐	200.000	199.287	2520234.70	0.8774	A	1.7

y = 0.0044 * x + 8.6832E-005
R = 1.0000
DL = 0.01002
BEC = 0.01973

Weight: <None>
Min Conc: <None>

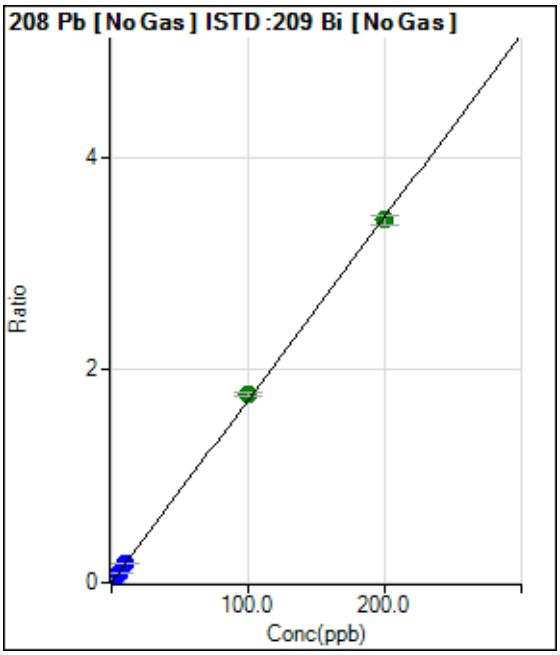
Calibration for 173_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	17.3
2	☐	2.000	1.997	22400.44	0.0075	P	5.3
3	☐	5.000	4.999	56203.26	0.0188	P	2.1
4	☐	10.000	10.050	112454.04	0.0378	P	1.0
5	☐	100.000	100.234	1081390.84	0.3760	P	2.6
6	☐	200.000	199.880	2153640.75	0.7498	A	4.1

y = 0.0038 * x + 5.9102E-005
R = 1.0000
DL = 0.008155
BEC = 0.01576

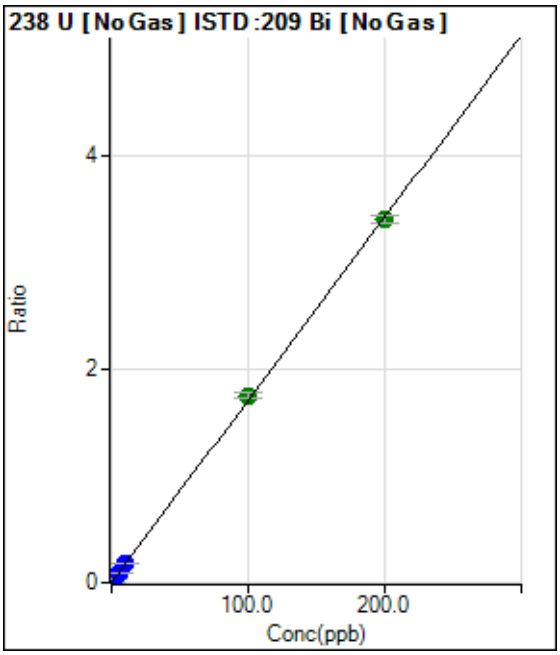
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	910.03	0.0003	P	4.3
2	☐	2.000	1.967	101154.68	0.0341	P	5.0
3	☐	5.000	5.076	261375.48	0.0875	P	1.9
4	☐	10.000	10.145	519871.18	0.1745	P	0.2
5	☐	100.000	102.823	5079118.88	1.7661	A	2.1
6	☐	200.000	198.580	9796911.11	3.4106	A	2.3

y = 0.0172 * x + 3.0419E-004
R = 0.9999
DL = 0.002296
BEC = 0.01771

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.35	0.0001	P	22.2
2	☐	2.000	1.983	100876.42	0.0340	P	2.8
3	☐	5.000	5.050	258025.58	0.0863	P	1.2
4	☐	10.000	10.090	513440.02	0.1724	P	0.5
5	☐	100.000	102.500	5032904.93	1.7502	A	3.0
6	☐	200.000	198.744	9748761.52	3.3934	A	2.1

y = 0.0171 * x + 1.2158E-004

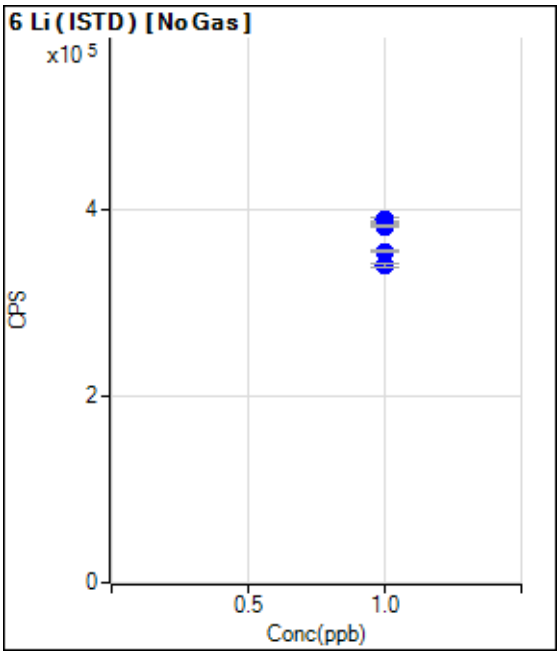
R = 0.9999

DL = 0.004753

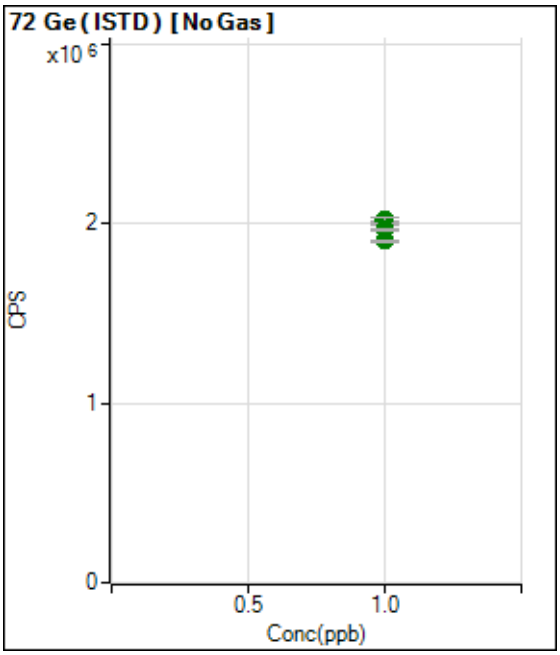
BEC = 0.007121

Weight: <None>

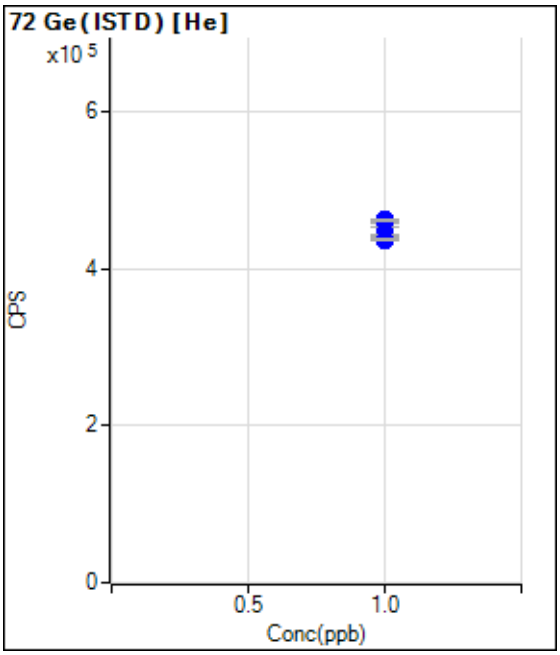
Min Conc: <None>



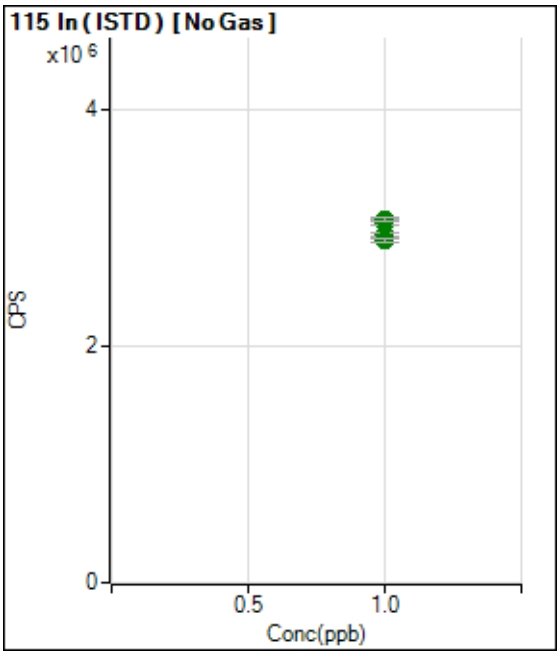
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		389235.03		P	1.0
2	☐	1.000		387190.10		P	0.7
3	☐	1.000		384263.82		P	0.4
4	☐	1.000		381948.86		P	0.6
5	☐	1.000		355328.88		P	0.5
6	☐	1.000		339741.77		P	1.4



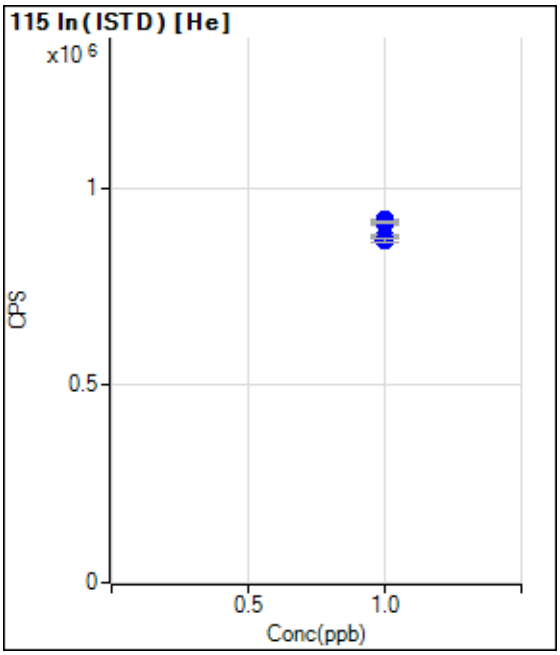
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1990980.49		A	2.3
2	☐	1.000		2018581.64		A	1.5
3	☐	1.000		2000128.67		A	0.9
4	☐	1.000		2015246.58		A	1.4
5	☐	1.000		1963582.10		A	0.9
6	☐	1.000		1900051.75		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		452820.38		P	0.4
2	☐	1.000		459110.96		P	0.4
3	☐	1.000		461849.16		P	0.3
4	☐	1.000		461014.96		P	0.9
5	☐	1.000		443028.04		P	0.6
6	☐	1.000		436220.41		P	0.6

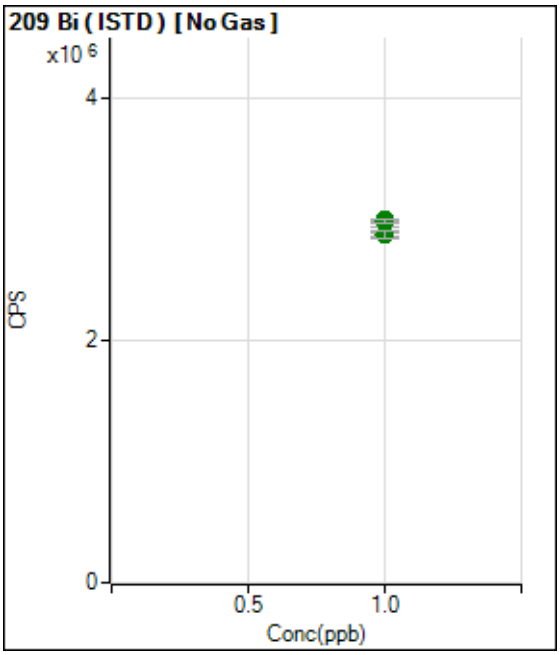


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3048786.57		A	1.1
2	☐	1.000		3051156.15		A	1.6
3	☐	1.000		3043721.74		A	1.1
4	☐	1.000		3071457.42		A	0.9
5	☐	1.000		2944672.78		A	1.4
6	☐	1.000		2900792.96		A	1.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		909989.35		P	0.4
2	☐	1.000		913833.22		P	0.6
3	☐	1.000		919615.22		P	0.8
4	☐	1.000		913738.71		P	0.3
5	☐	1.000		879581.25		P	0.6
6	☐	1.000		866544.36		P	0.9

Calibration for 173_ICV.d



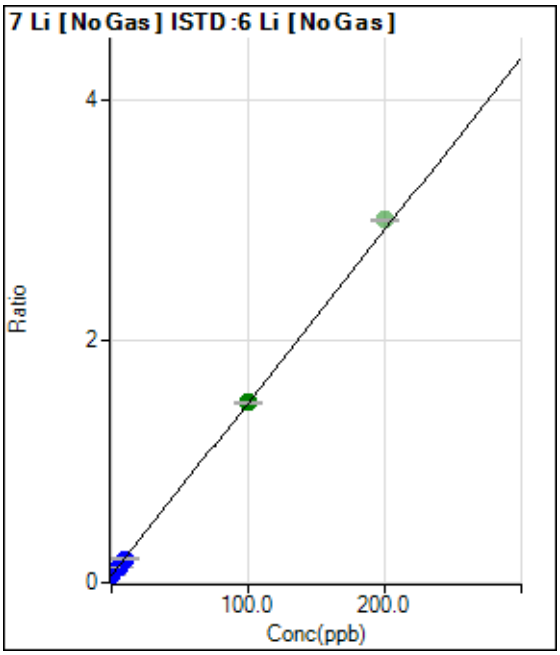
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2992076.31		A	0.8
2	☐	1.000		2969288.29		A	2.0
3	☐	1.000		2988329.64		A	0.6
4	☐	1.000		2978506.73		A	1.4
5	☐	1.000		2876323.29		A	1.2
6	☐	1.000		2873136.94		A	1.9

Calibration for 088_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	081CALB.d	CAL BLK	5/15/2024 2:09:24 PM
2	082CALS.d	2/10/200	5/15/2024 2:11:19 PM
3	083CALS.d	5/25/500	5/15/2024 2:13:15 PM
4	084CALS.d	10/50/100	5/15/2024 2:15:10 PM
5	085CALS.d	100/500/10K	5/15/2024 2:17:05 PM
6	086CALS.d	200/1000/20K	5/15/2024 2:18:54 PM

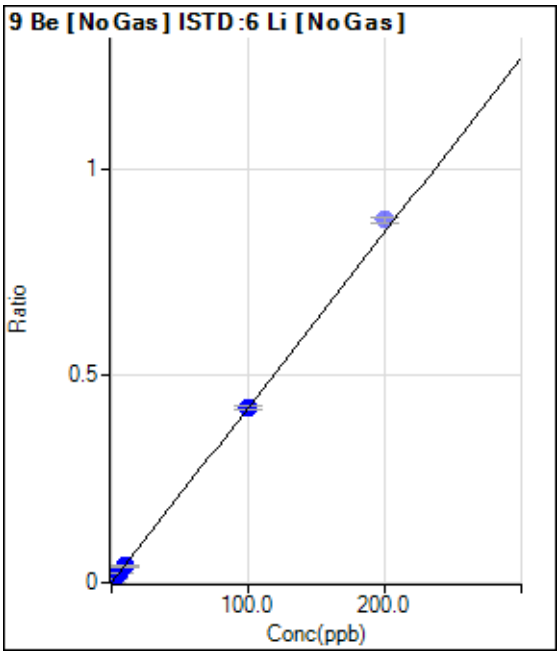
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30847.12	0.0609	P	1.0
2	☐	2.000	1.987	44929.63	0.0893	P	1.1
3	☐	5.000	5.054	65978.49	0.1331	P	0.5
4	☐	10.000	9.603	96349.96	0.1980	P	1.2
5	☐	100.000	100.037	677598.95	1.4894	A	1.3
6	☑	200.000		1302056.13	3.0023	A	0.6

y = 0.0143 * x + 0.0609
R = 1.0000
DL = 0.1251
BEC = 4.264

Weight: <None>
Min Conc: <None>

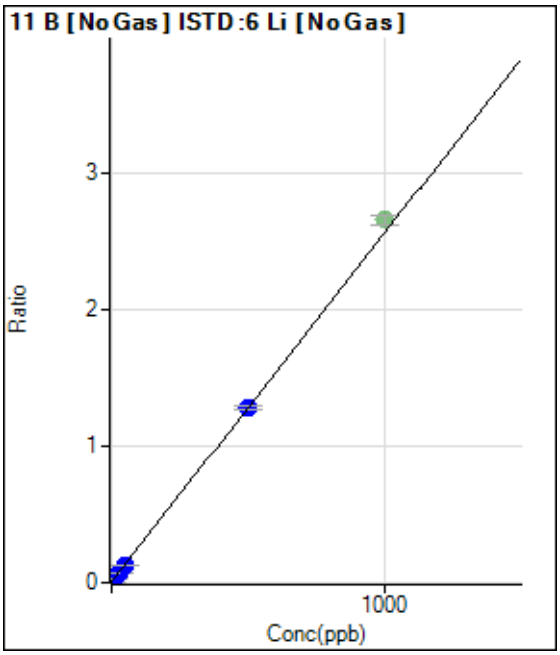


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	125.0
2	☐	2.000	2.045	4359.04	0.0087	P	1.8
3	☐	5.000	5.017	10527.35	0.0212	P	1.2
4	☐	10.000	9.345	19231.57	0.0395	P	1.3
5	☐	100.000	100.064	192484.36	0.4231	P	1.4
6	☑	200.000		380113.91	0.8765	P	1.5

y = 0.0042 * x + 1.6388E-005
R = 1.0000
DL = 0.01454
BEC = 0.003876

Weight: <None>
Min Conc: <None>

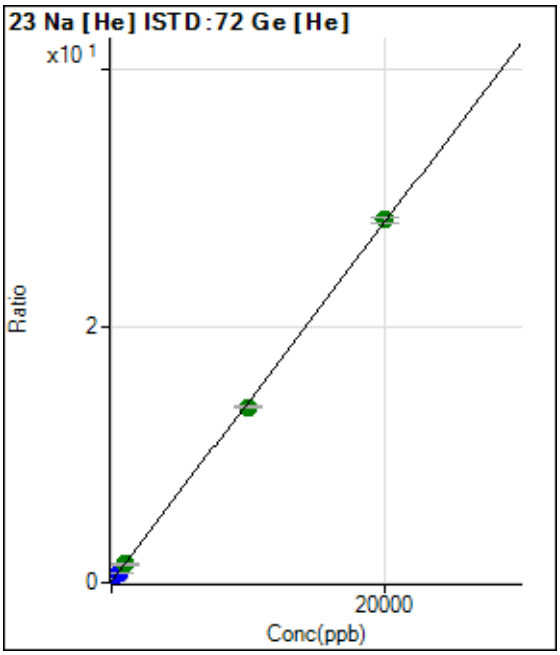
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3323.75	0.0066	P	4.3
2	☐	10.000	9.516	15531.96	0.0309	P	2.2
3	☐	25.000	24.390	34138.09	0.0688	P	2.9
4	☐	50.000	46.285	60703.69	0.1248	P	2.0
5	☐	500.000	500.412	584363.93	1.2845	P	1.7
6	☑	1000.000		1152290.63	2.6575	A	2.8

y = 0.0026 * x + 0.0066
R = 1.0000
DL = 0.3334
BEC = 2.569

Weight: <None>
Min Conc: <None>

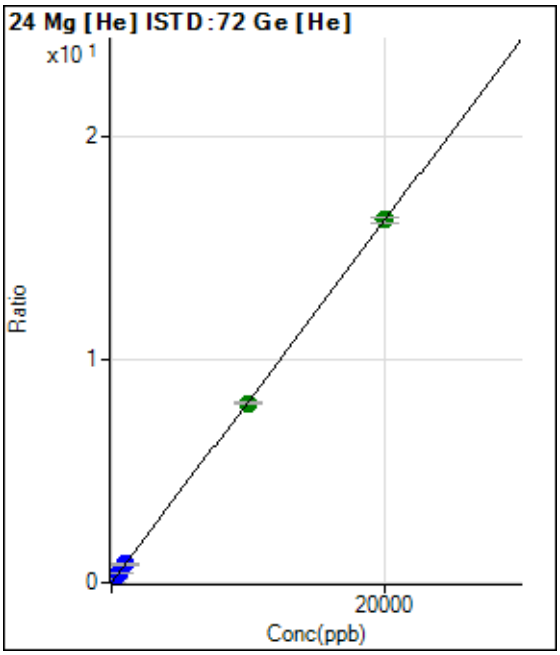


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50725.44	0.0817	P	1.4
2	☐	200.000	211.499	232965.33	0.3782	P	2.2
3	☐	500.000	524.699	504848.64	0.8171	P	1.3
4	☐	1000.000	959.406	861160.04	1.4264	A	3.4
5	☐	10000.000	9717.461	8069756.13	13.7012	A	0.6
6	☐	20000.000	20142.567	16397609.76	28.3125	A	1.5

y = 0.0014 * x + 0.0817
R = 0.9999
DL = 2.449
BEC = 58.31

Weight: <None>
Min Conc: <None>

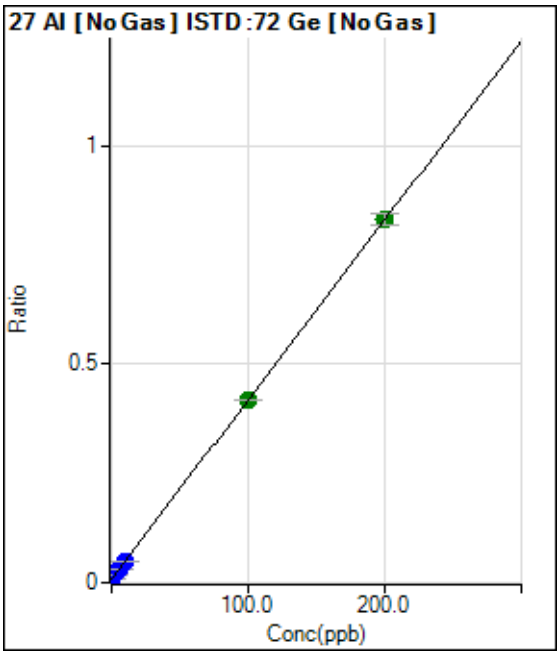
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1130.07	0.0018	P	11.5
2	☐	200.000	219.309	110823.94	0.1799	P	2.0
3	☐	500.000	540.624	272341.30	0.4408	P	2.4
4	☐	1000.000	1011.828	497103.34	0.8234	P	1.6
5	☐	10000.000	9927.266	4748633.26	8.0623	A	1.3
6	☐	20000.000	20034.567	9423055.69	16.2690	A	1.8

y = 8.1195E-004 * x + 0.0018
R = 1.0000
DL = 0.7741
BEC = 2.244

Weight: <None>
Min Conc: <None>

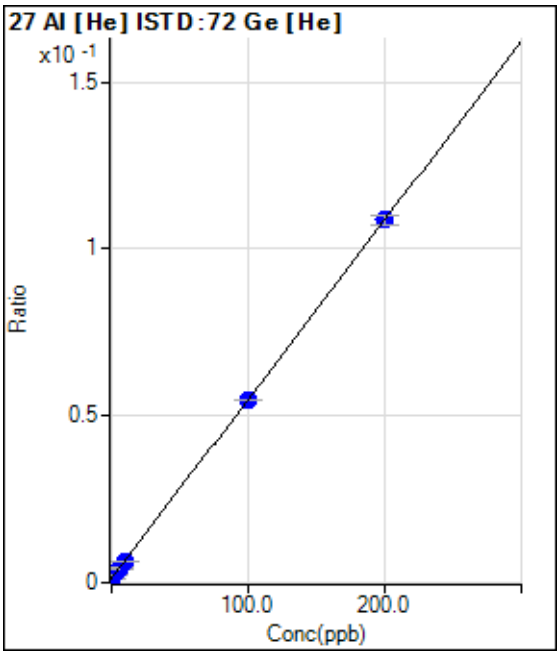


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22191.34	0.0081	P	0.9
2	☐	2.000	2.033	45256.96	0.0164	P	2.9
3	☐	5.000	5.063	78514.50	0.0288	P	1.7
4	☐	10.000	9.814	130615.12	0.0483	P	2.8
5	☐	100.000	99.518	1076761.42	0.4165	A	0.3
6	☐	200.000	200.248	2100453.93	0.8300	A	3.3

y = 0.0041 * x + 0.0081
R = 1.0000
DL = 0.05302
BEC = 1.965

Weight: <None>
Min Conc: <None>

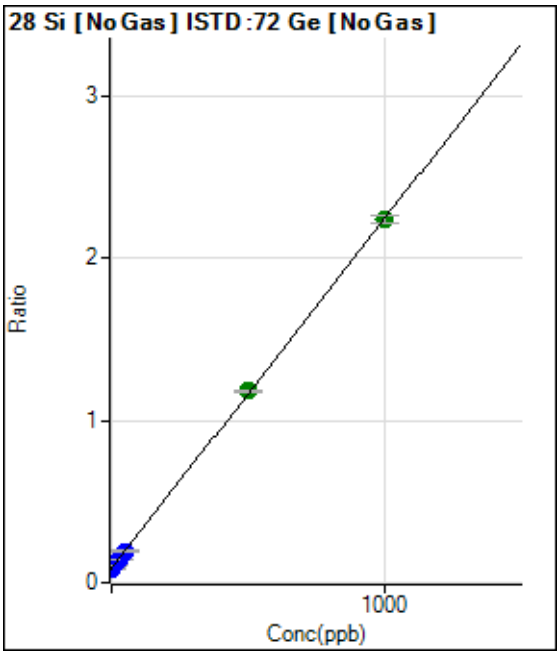
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	790.04	0.0013	P	10.6
2	☐	2.000	1.742	1360.09	0.0022	P	2.3
3	☐	5.000	5.361	2563.61	0.0041	P	10.0
4	☐	10.000	9.021	3690.56	0.0061	P	2.0
5	☐	100.000	99.663	32234.31	0.0547	P	0.9
6	☐	200.000	200.211	62928.93	0.1087	P	2.5

y = 5.3635E-004 * x + 0.0013
R = 1.0000
DL = 0.758
BEC = 2.375

Weight: <None>
Min Conc: <None>

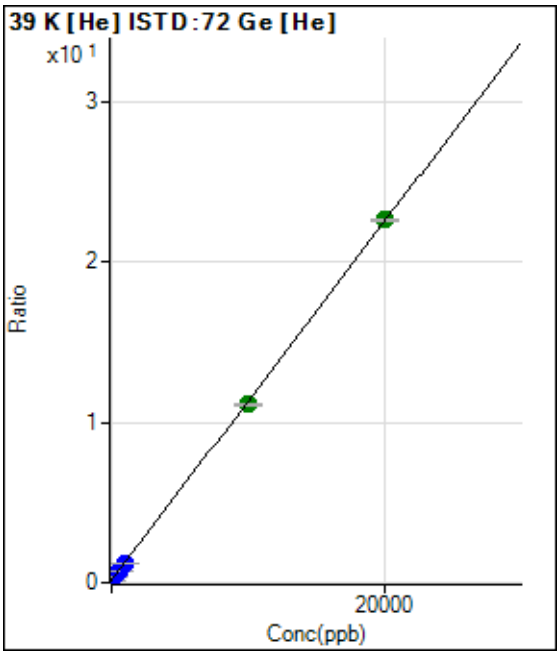


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243306.53	0.0885	P	2.1
2	☐	10.000	9.885	302724.70	0.1098	P	1.6
3	☐	25.000	25.644	391181.11	0.1437	P	1.6
4	☐	50.000	49.066	524607.83	0.1942	P	2.7
5	☐	500.000	506.347	3048987.14	1.1795	A	1.8
6	☐	1000.000	996.858	5660481.79	2.2365	A	2.2

y = 0.0022 * x + 0.0885
R = 1.0000
DL = 2.643
BEC = 41.05

Weight: <None>
Min Conc: <None>

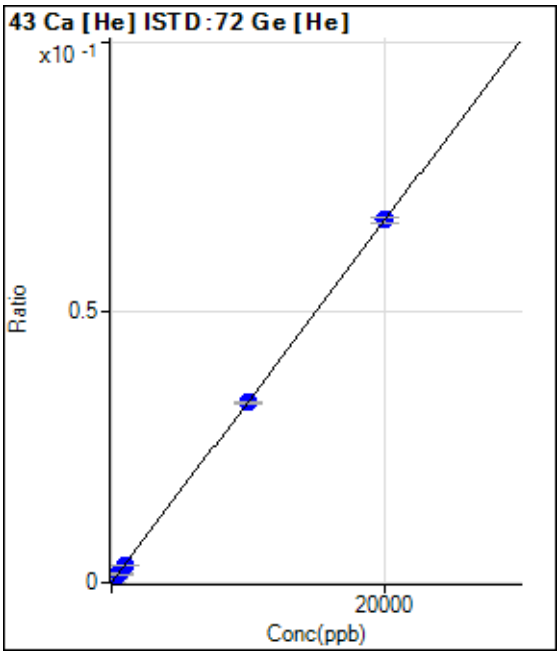
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94639.48	0.1525	P	1.8
2	☐	200.000	212.907	240800.49	0.3909	P	1.9
3	☐	500.000	517.808	452440.56	0.7323	P	1.3
4	☐	1000.000	964.638	744151.63	1.2326	P	2.3
5	☐	10000.000	9808.106	6558171.15	11.1351	A	0.6
6	☐	20000.000	20097.141	13122628.97	22.6563	A	0.5

y = 0.0011 * x + 0.1525
R = 0.9999
DL = 7.161
BEC = 136.2

Weight: <None>
Min Conc: <None>

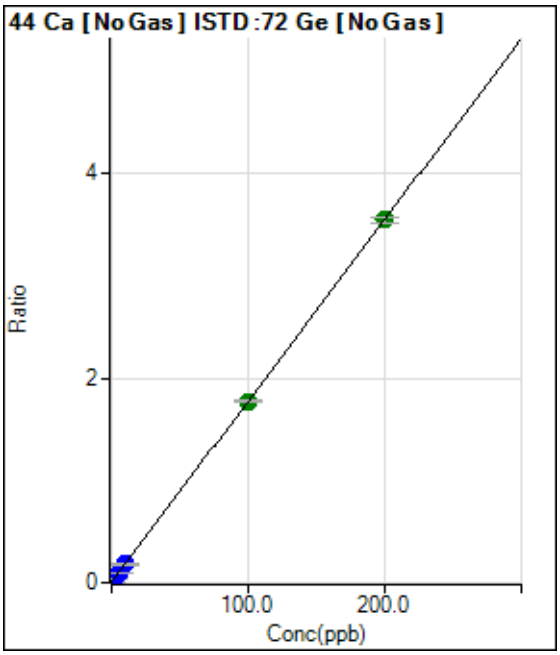


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	66.1
2	☐	200.000	181.109	396.68	0.0006	P	14.2
3	☐	500.000	488.222	1033.39	0.0017	P	21.5
4	☐	1000.000	947.421	1936.84	0.0032	P	9.1
5	☐	10000.000	9933.726	19610.90	0.0333	P	1.9
6	☐	20000.000	20036.250	38871.79	0.0671	P	1.6

y = 3.3479E-006 * x + 3.7670E-005
R = 1.0000
DL = 22.32
BEC = 11.25

Weight: <None>
Min Conc: <None>

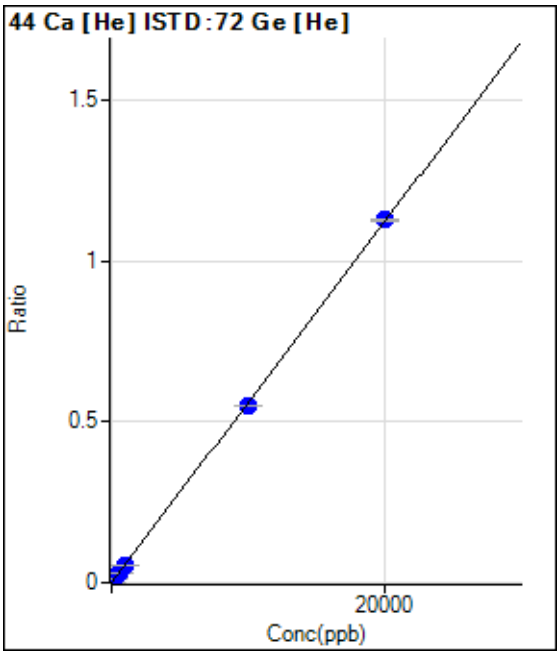
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10577.57	0.0038	P	2.0
2	☐	2.000	2.085	112536.94	0.0408	P	1.6
3	☐	5.000	5.181	260395.67	0.0957	P	3.0
4	☐	10.000	9.907	484689.88	0.1794	P	4.3
5	☐	100.000	99.941	4588865.04	1.7752	A	0.5
6	☐	200.000	200.029	8983115.70	3.5491	A	1.4

y = 0.0177 * x + 0.0038
R = 1.0000
DL = 0.01289
BEC = 0.217

Weight: <None>
Min Conc: <None>

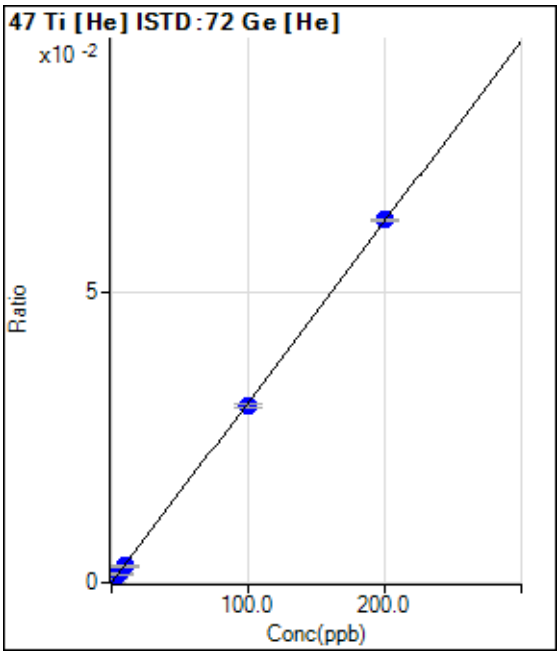


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.01	0.0005	P	10.5
2	☐	200.000	209.218	7562.24	0.0123	P	2.2
3	☐	500.000	508.518	17965.27	0.0291	P	2.6
4	☐	1000.000	944.645	32331.52	0.0536	P	2.1
5	☐	10000.000	9779.810	323636.17	0.5495	P	0.6
6	☐	20000.000	20112.557	654204.99	1.1295	P	0.4

y = 5.6131E-005 * x + 5.3153E-004
R = 0.9999
DL = 2.989
BEC = 9.469

Weight: <None>
Min Conc: <None>

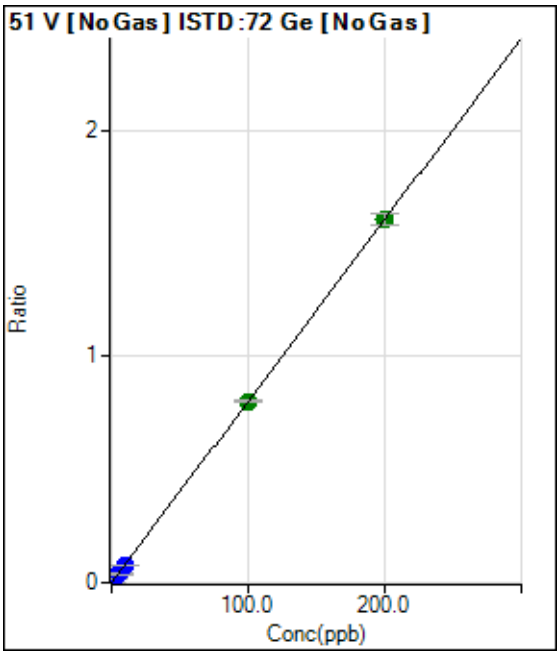
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	86.6
2	☐	2.000	1.938	383.35	0.0006	P	19.4
3	☐	5.000	4.790	930.05	0.0015	P	12.9
4	☐	10.000	9.017	1700.14	0.0028	P	14.8
5	☐	100.000	98.101	17921.94	0.0304	P	2.0
6	☐	200.000	201.005	36097.82	0.0623	P	0.8

y = 3.0996E-004 * x + 2.1585E-005
R = 0.9999
DL = 0.1809
BEC = 0.06964

Weight: <None>
Min Conc: <None>

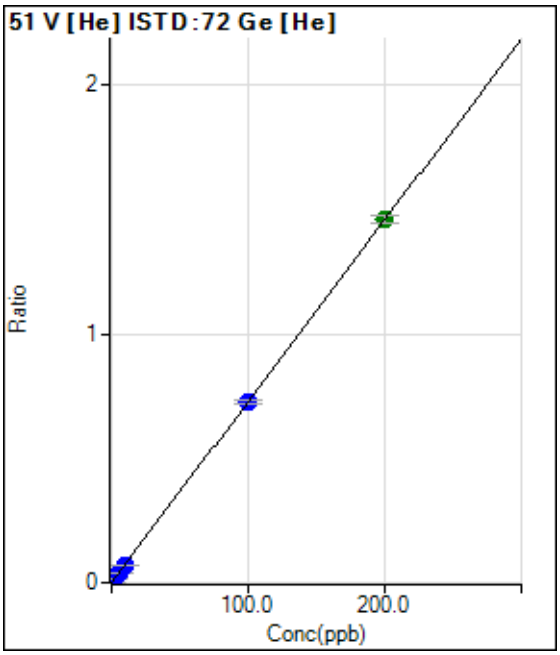


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2905.75	-0.0011	P	-151.7
2	☐	2.000	1.990	41163.74	0.0149	P	13.4
3	☐	5.000	4.849	103147.78	0.0379	P	5.4
4	☐	10.000	9.404	201276.22	0.0745	P	4.0
5	☐	100.000	99.993	2074408.19	0.8025	A	1.8
6	☐	200.000	200.037	4065568.08	1.6065	A	3.3

y = 0.0080 * x - 0.0011
R = 1.0000
DL = 0.607
BEC = -0.1334

Weight: <None>
Min Conc: <None>

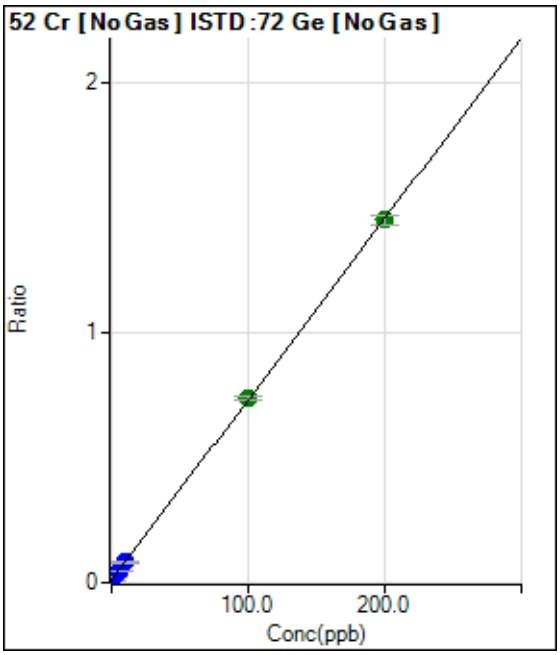
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	520.29	0.0008	P	125.6
2	☐	2.000	2.084	9862.94	0.0160	P	1.3
3	☐	5.000	4.890	22513.88	0.0364	P	4.8
4	☐	10.000	9.272	41256.82	0.0683	P	3.1
5	☐	100.000	99.590	427576.88	0.7260	P	1.4
6	☐	200.000	200.243	844986.66	1.4588	A	2.1

y = 0.0073 * x + 8.3218E-004
R = 1.0000
DL = 0.4306
BEC = 0.1143

Weight: <None>
Min Conc: <None>

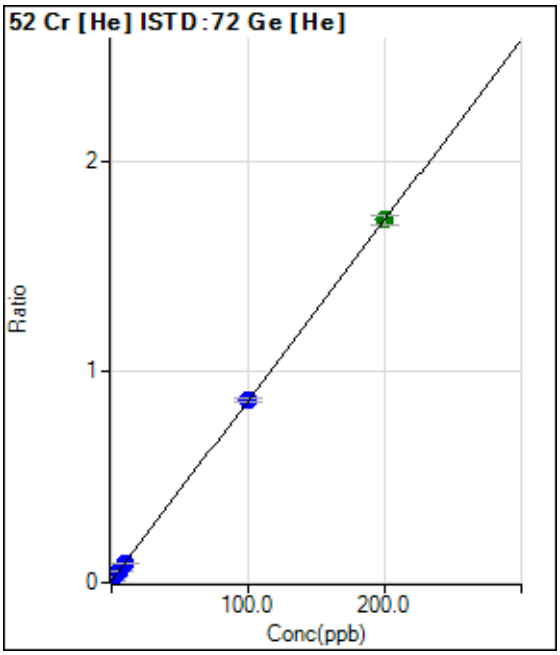


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28489.88	0.0104	P	1.5
2	☐	2.000	2.118	70792.26	0.0257	P	3.2
3	☐	5.000	5.258	131681.31	0.0484	P	1.5
4	☐	10.000	9.898	221317.83	0.0819	P	3.7
5	☐	100.000	100.850	1911827.36	0.7396	A	1.9
6	☐	200.000	199.573	3678564.95	1.4535	A	2.6

y = 0.0072 * x + 0.0104
R = 1.0000
DL = 0.06378
BEC = 1.432

Weight: <None>
Min Conc: <None>

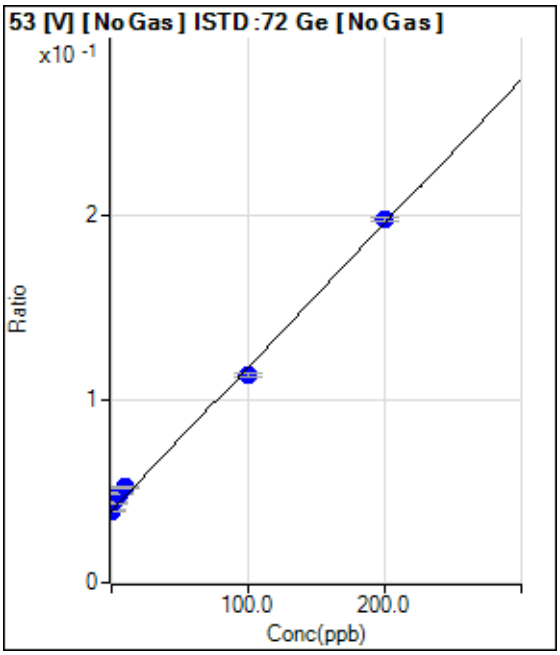
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5901.36	0.0095	P	3.4
2	☐	2.000	2.110	16967.42	0.0275	P	1.1
3	☐	5.000	5.144	33036.86	0.0535	P	1.3
4	☐	10.000	9.622	55385.56	0.0917	P	3.3
5	☐	100.000	99.989	508960.62	0.8641	P	1.6
6	☐	200.000	200.020	995783.58	1.7191	A	2.4

y = 0.0085 * x + 0.0095
R = 1.0000
DL = 0.1137
BEC = 1.112

Weight: <None>
Min Conc: <None>

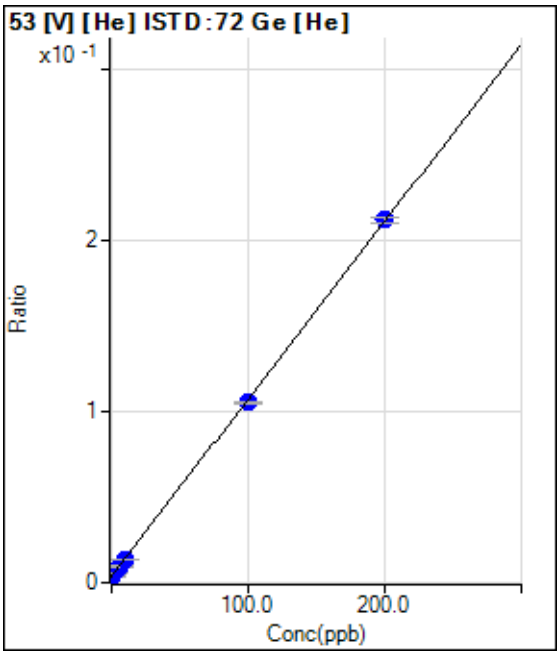


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	107899.41	0.0392	P	1.3
2	☐	2.000	6.140	121464.77	0.0440	P	2.4
3	☐	5.000	11.888	132162.43	0.0486	P	2.1
4	☐	10.000	16.481	140915.88	0.0522	P	3.1
5	☐	100.000	94.345	292835.51	0.1133	P	2.4
6	☐	200.000	202.290	501224.02	0.1980	P	1.1

y = 7.8500E-004 * x + 0.0392
R = 0.9985
DL = 1.996
BEC = 49.97

Weight: <None>
Min Conc: <None>

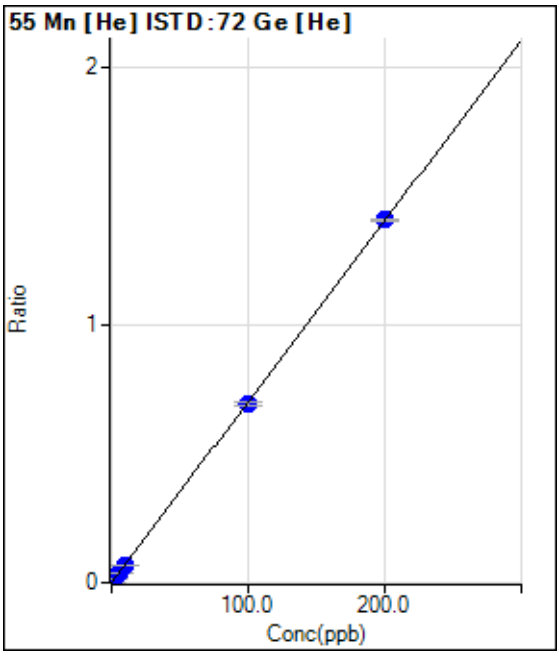
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2370.26	0.0038	P	8.6
2	☐	2.000	2.144	3723.90	0.0060	P	1.1
3	☐	5.000	5.521	5898.05	0.0095	P	4.5
4	☐	10.000	9.656	8352.69	0.0138	P	2.4
5	☐	100.000	97.899	62043.96	0.1053	P	1.4
6	☐	200.000	201.053	122968.82	0.2123	P	1.3

y = 0.0010 * x + 0.0038
R = 0.9999
DL = 0.956
BEC = 3.684

Weight: <None>
Min Conc: <None>

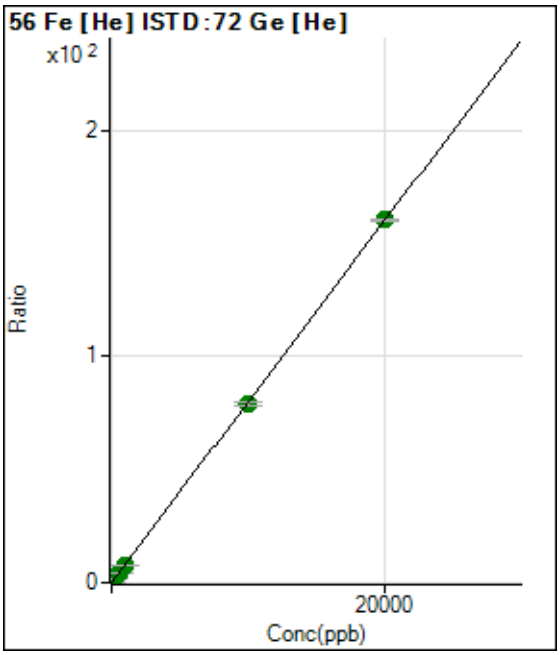


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0003	P	12.5
2	☐	2.000	2.012	8923.08	0.0145	P	5.6
3	☐	5.000	5.046	22114.83	0.0358	P	3.1
4	☐	10.000	9.466	40363.14	0.0669	P	1.0
5	☐	100.000	98.673	408548.76	0.6936	P	2.4
6	☐	200.000	200.689	816902.02	1.4104	P	0.6

y = 0.0070 * x + 3.4886E-004
R = 1.0000
DL = 0.01855
BEC = 0.04965

Weight: <None>
Min Conc: <None>

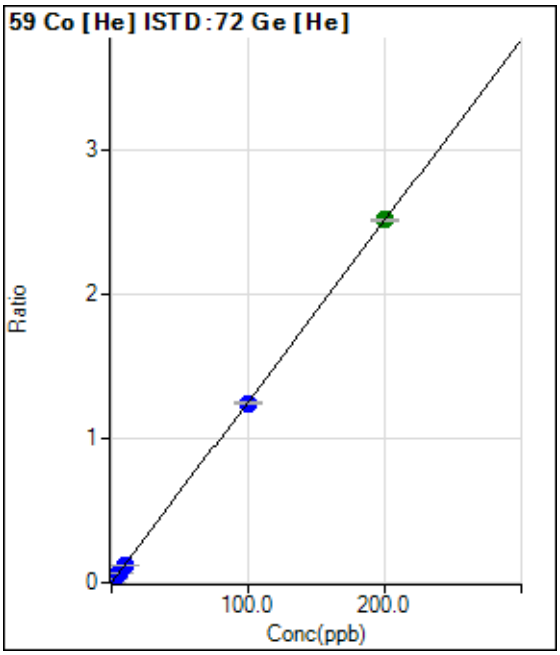
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19030.18	0.0307	P	1.8
2	☐	200.000	213.572	1070873.06	1.7383	A	3.3
3	☐	500.000	516.403	2569869.34	4.1597	A	1.6
4	☐	1000.000	947.938	4594405.56	7.6101	A	2.3
5	☐	10000.000	9885.721	46574515.97	79.0743	A	1.5
6	☐	20000.000	20059.197	92917235.28	160.4188	A	0.8

y = 0.0080 * x + 0.0307
R = 1.0000
DL = 0.2014
BEC = 3.835

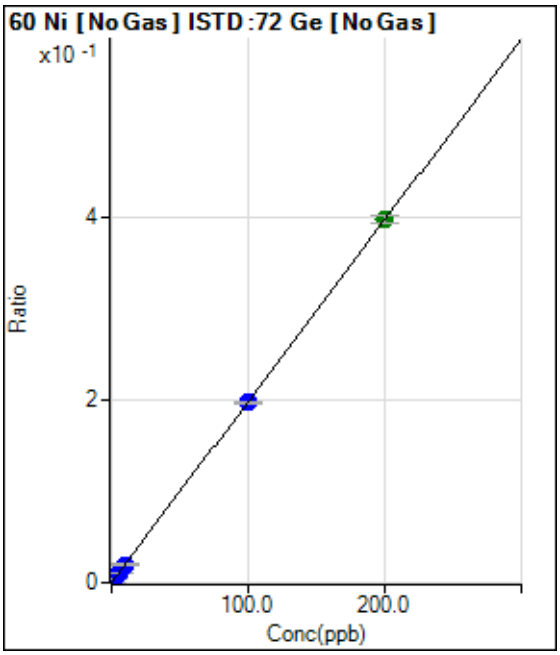
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.2
2	☐	2.000	2.042	15806.06	0.0257	P	1.8
3	☐	5.000	5.052	39189.85	0.0634	P	0.8
4	☐	10.000	9.665	73246.28	0.1213	P	4.6
5	☐	100.000	99.241	733713.40	1.2457	P	1.2
6	☐	200.000	200.394	1456942.37	2.5154	A	0.5

y = 0.0126 * x + 2.6812E-005
R = 1.0000
DL = 0.002189
BEC = 0.002136

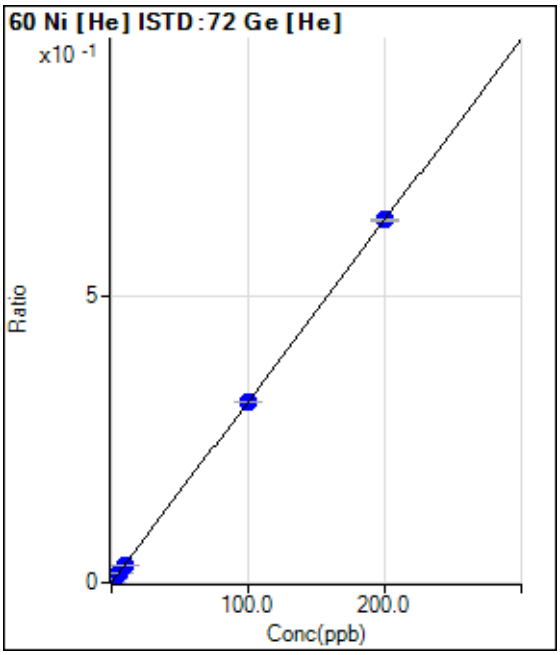
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	380.01	0.0001	P	10.3
2	☐	2.000	2.064	11661.92	0.0042	P	7.1
3	☐	5.000	5.276	28840.86	0.0106	P	4.1
4	☐	10.000	9.974	53782.84	0.0199	P	4.1
5	☐	100.000	99.506	510276.40	0.1974	P	1.5
6	☐	200.000	200.241	1005047.02	0.3971	A	2.1

y = 0.0020 * x + 1.3795E-004
R = 1.0000
DL = 0.02151
BEC = 0.06959

Weight: <None>
Min Conc: <None>

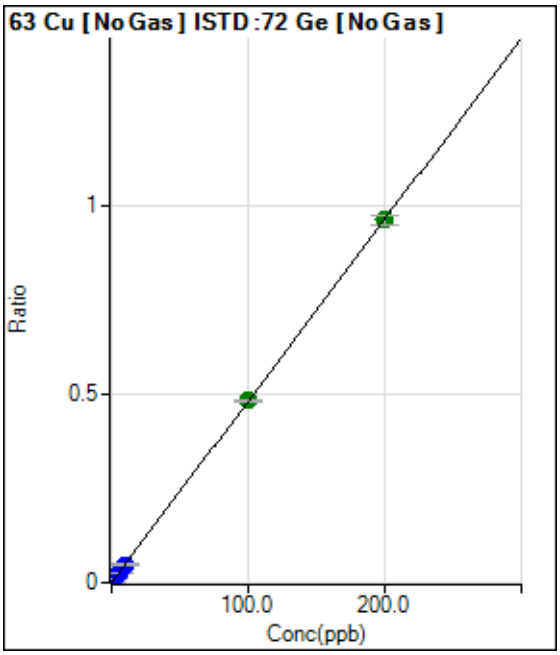


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0002	P	32.4
2	☐	2.000	1.971	3947.30	0.0064	P	5.6
3	☐	5.000	5.013	9897.05	0.0160	P	1.9
4	☐	10.000	9.565	18359.30	0.0304	P	2.8
5	☐	100.000	99.543	185414.41	0.3148	P	0.2
6	☐	200.000	200.250	366704.94	0.6331	P	0.8

y = 0.0032 * x + 1.7709E-004
R = 1.0000
DL = 0.05441
BEC = 0.05603

Weight: <None>
Min Conc: <None>

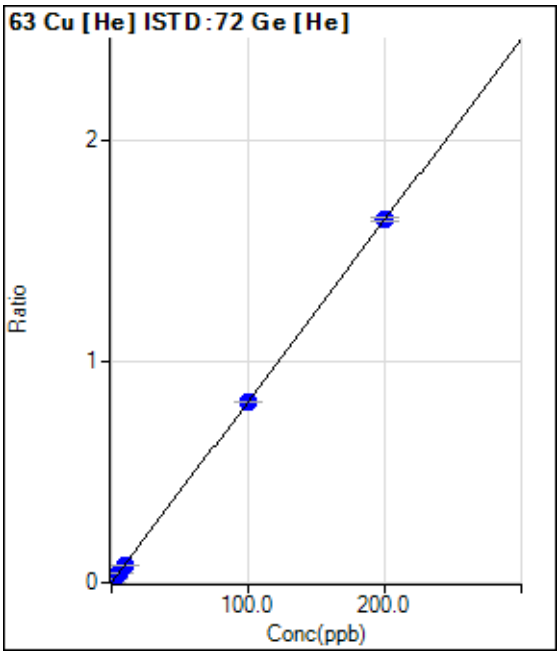
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	983.39	0.0004	P	8.5
2	☐	2.000	2.066	28453.31	0.0103	P	4.5
3	☐	5.000	5.236	69698.40	0.0256	P	2.9
4	☐	10.000	9.888	129798.31	0.0480	P	2.7
5	☐	100.000	100.188	1249975.29	0.4835	A	0.9
6	☐	200.000	199.905	2440918.45	0.9645	A	2.8

y = 0.0048 * x + 3.5731E-004
R = 1.0000
DL = 0.01899
BEC = 0.07409

Weight: <None>
Min Conc: <None>

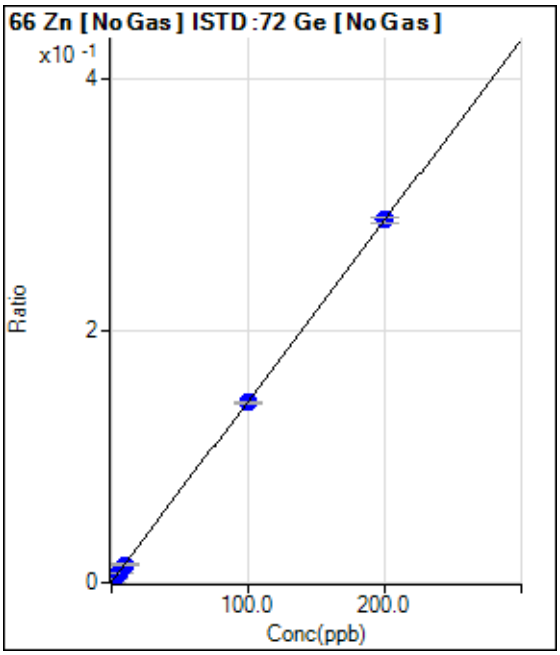


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	376.68	0.0006	P	11.1
2	☐	2.000	2.035	10634.31	0.0173	P	4.1
3	☐	5.000	5.050	25911.53	0.0419	P	2.8
4	☐	10.000	9.652	48055.26	0.0796	P	3.8
5	☐	100.000	99.676	480853.69	0.8164	P	0.4
6	☐	200.000	200.178	949300.54	1.6390	P	1.0

y = 0.0082 * x + 6.0651E-004
R = 1.0000
DL = 0.02474
BEC = 0.0741

Weight: <None>
Min Conc: <None>

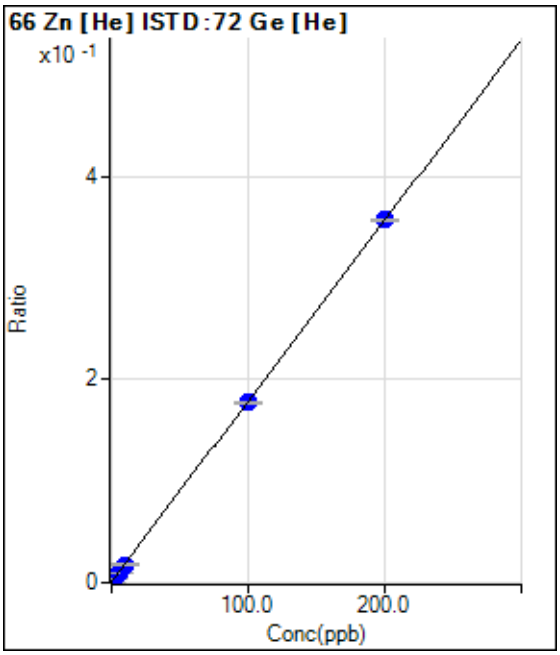
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1813.49	0.0007	P	11.9
2	☐	2.000	2.021	9833.75	0.0036	P	5.2
3	☐	5.000	5.189	22094.93	0.0081	P	0.9
4	☐	10.000	9.643	39223.62	0.0145	P	1.7
5	☐	100.000	99.406	370949.88	0.1435	P	1.1
6	☐	200.000	200.310	730185.69	0.2885	P	1.8

y = 0.0014 * x + 6.5994E-004
R = 1.0000
DL = 0.1635
BEC = 0.4593

Weight: <None>
Min Conc: <None>

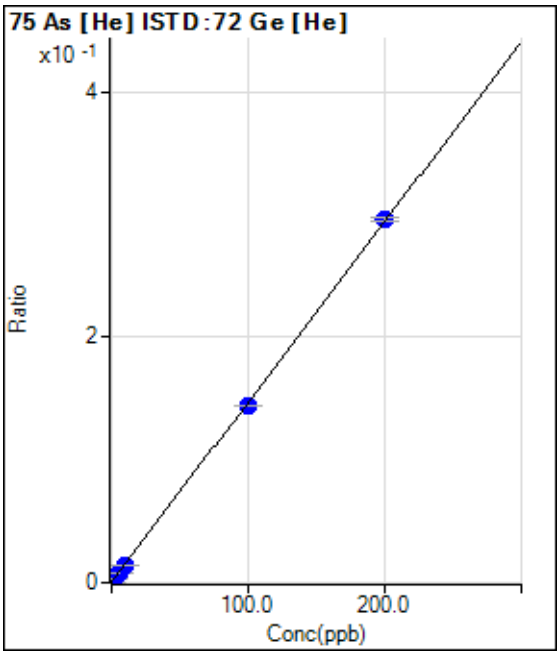


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	560.03	0.0009	P	2.4
2	☐	2.000	2.004	2750.33	0.0045	P	6.7
3	☐	5.000	4.970	6014.78	0.0097	P	7.3
4	☐	10.000	9.606	10851.15	0.0180	P	1.7
5	☐	100.000	99.239	104409.62	0.1773	P	0.5
6	☐	200.000	200.401	206806.33	0.3571	P	0.6

y = 0.0018 * x + 9.0240E-004
R = 1.0000
DL = 0.03707
BEC = 0.5078

Weight: <None>
Min Conc: <None>

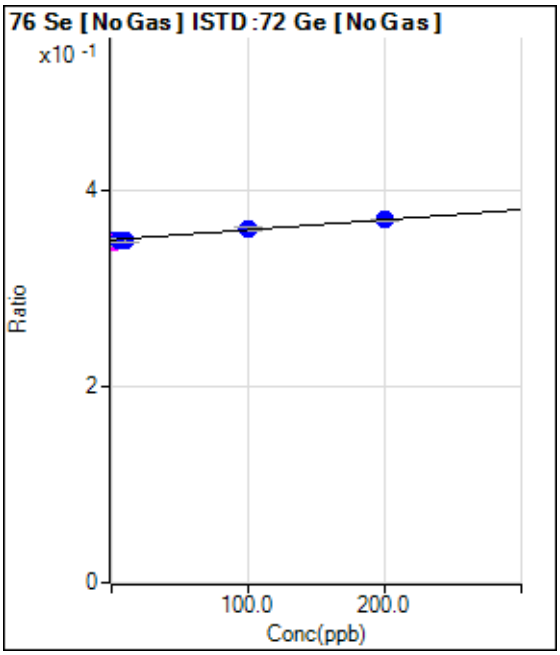
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.12	0.0004	P	21.6
2	☐	2.000	1.949	2002.38	0.0033	P	4.1
3	☐	5.000	4.905	4689.73	0.0076	P	2.3
4	☐	10.000	9.005	8216.97	0.0136	P	3.6
5	☐	100.000	97.864	84868.00	0.1441	P	0.6
6	☐	200.000	201.121	171281.04	0.2957	P	1.0

y = 0.0015 * x + 3.8799E-004
R = 0.9999
DL = 0.171
BEC = 0.2642

Weight: <None>
Min Conc: <None>

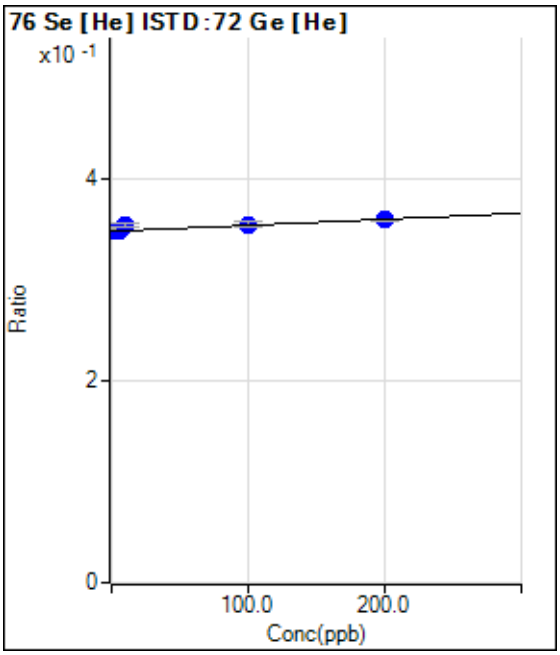


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	961925.72	0.3497	P	1.2
2	☐	2.000	-23.946	957598.50	0.3472	M	2.3
3	☐	5.000	-5.957	950227.67	0.3491	P	0.3
4	☐	10.000	-8.225	942559.28	0.3488	P	0.9
5	☐	100.000	107.770	932481.08	0.3607	P	0.6
6	☐	200.000	197.560	936440.90	0.3699	P	0.7

y = 1.0259E-004 * x + 0.3497
R = 0.9927
DL = 120
BEC = 3409

Weight: <None>
Min Conc: <None>

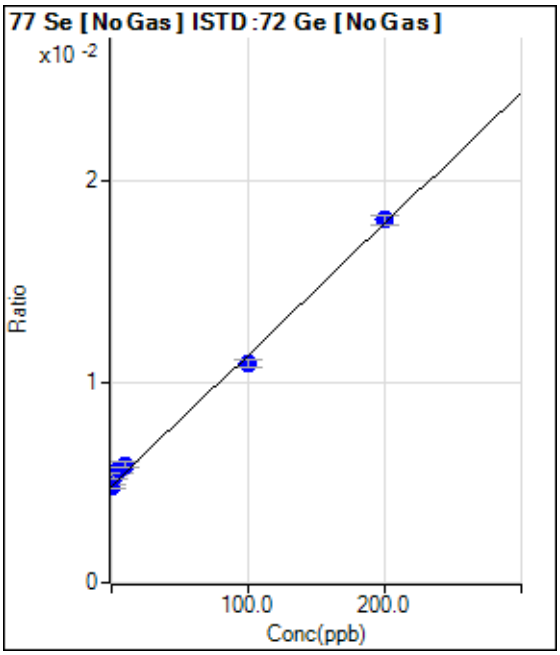
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215987.09	0.3480	P	0.9
2	☐	2.000	13.780	214878.77	0.3488	P	2.1
3	☐	5.000	16.145	215577.75	0.3489	P	0.5
4	☐	10.000	99.412	213680.76	0.3539	P	0.7
5	☐	100.000	114.701	209003.77	0.3548	P	1.6
6	☐	200.000	187.782	208068.54	0.3592	P	0.2

y = 5.9984E-005 * x + 0.3480
R = 0.8987
DL = 164.8
BEC = 5801

Weight: <None>
Min Conc: <None>

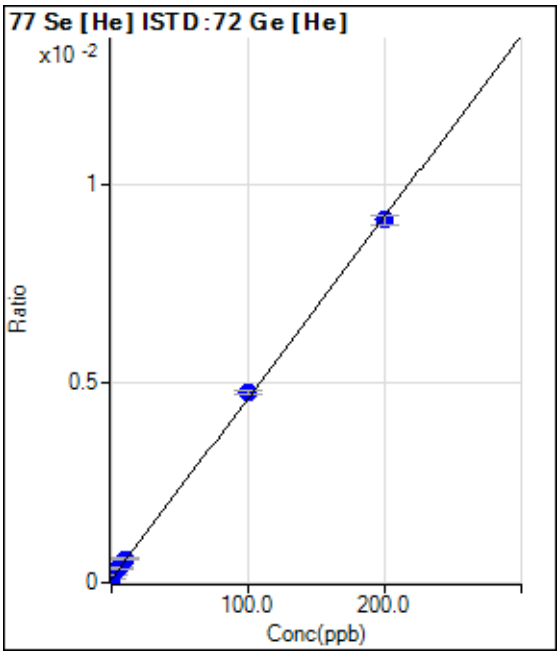


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13276.73	0.0048	P	3.6
2	☐	2.000	6.969	14568.11	0.0053	P	2.9
3	☐	5.000	12.044	15282.23	0.0056	P	3.8
4	☐	10.000	16.042	15872.92	0.0059	P	5.2
5	☐	100.000	93.800	28336.87	0.0110	P	3.6
6	☐	200.000	202.572	45747.76	0.0181	P	2.9

y = 6.5407E-005 * x + 0.0048
R = 0.9984
DL = 7.882
BEC = 73.8

Weight: <None>
Min Conc: <None>

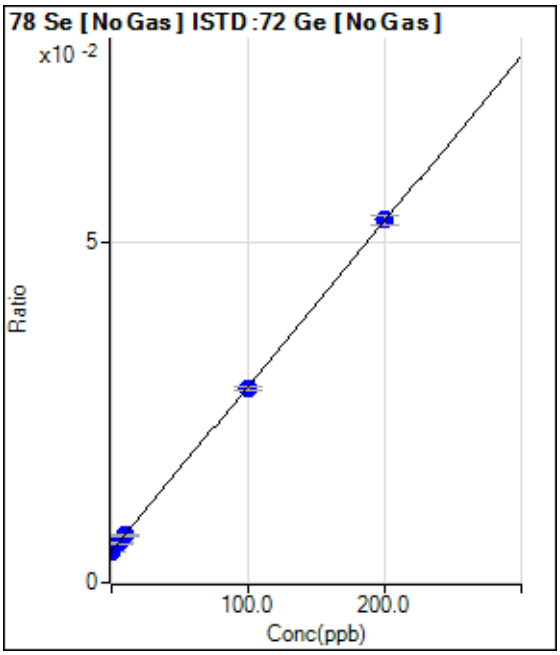
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	11.5
2	☐	2.000	3.822	160.01	0.0003	P	43.8
3	☐	5.000	6.179	226.68	0.0004	P	10.9
4	☐	10.000	10.858	350.01	0.0006	P	8.4
5	☐	100.000	103.235	2817.03	0.0048	P	2.4
6	☐	200.000	198.292	5274.47	0.0091	P	2.7

y = 4.5496E-005 * x + 8.5974E-005
R = 0.9998
DL = 0.6545
BEC = 1.89

Weight: <None>
Min Conc: <None>

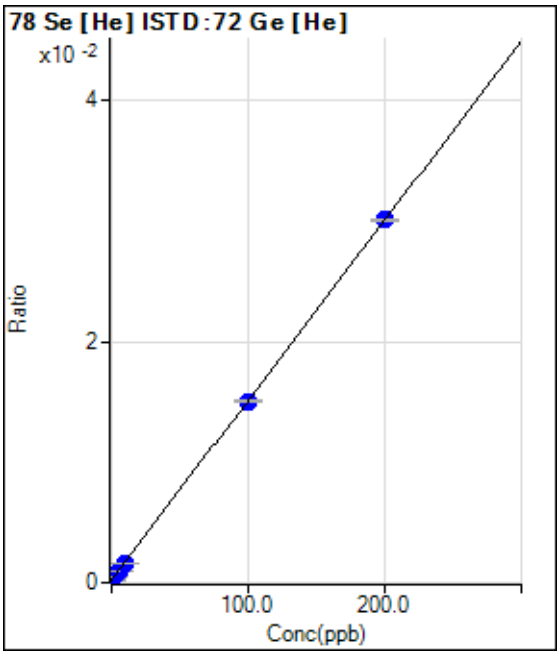


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12739.60	0.0046	P	0.2
2	☐	2.000	3.378	15031.92	0.0055	P	4.1
3	☐	5.000	4.972	15896.27	0.0058	P	1.5
4	☐	10.000	9.509	18756.57	0.0069	P	2.2
5	☐	100.000	98.538	73889.10	0.0286	P	1.1
6	☐	200.000	200.742	135219.79	0.0534	P	2.7

y = 2.4309E-004 * x + 0.0046
R = 0.9999
DL = 0.09201
BEC = 19.05

Weight: <None>
Min Conc: <None>

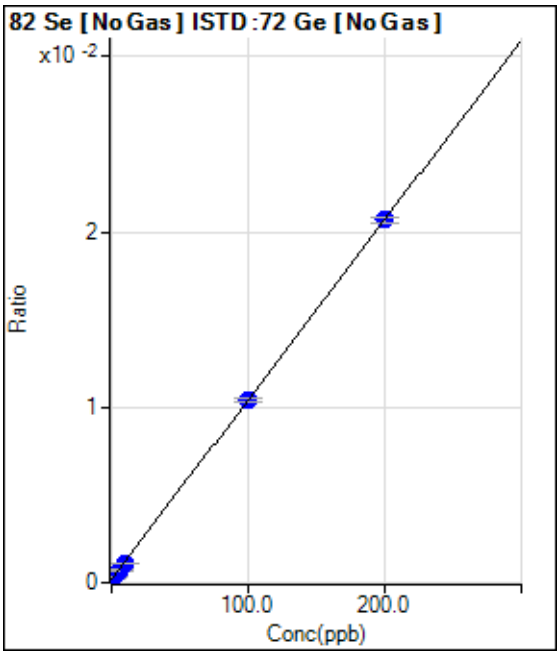
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	145.33	0.0002	P	16.2
2	☐	2.000	1.872	316.00	0.0005	P	7.1
3	☐	5.000	5.295	632.02	0.0010	P	2.3
4	☐	10.000	9.205	969.37	0.0016	P	1.5
5	☐	100.000	99.370	8858.26	0.0150	P	0.6
6	☐	200.000	200.349	17425.93	0.0301	P	0.9

y = 1.4900E-004 * x + 2.3394E-004
R = 1.0000
DL = 0.763
BEC = 1.57

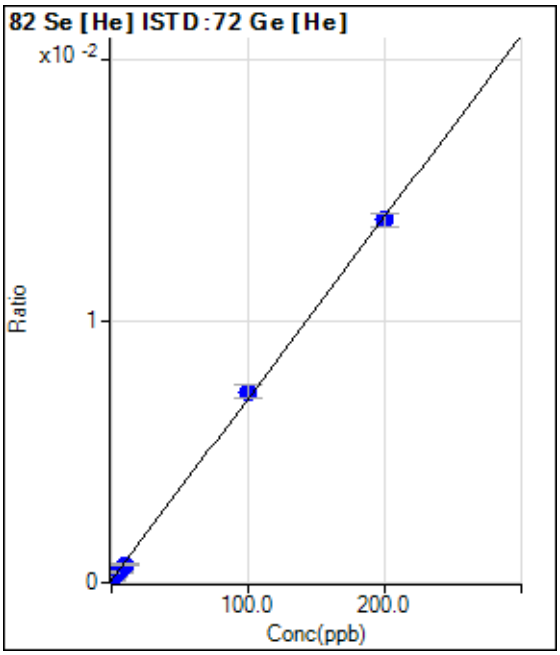
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510.02	0.0002	P	4.3
2	☐	2.000	1.658	980.05	0.0004	P	9.7
3	☐	5.000	4.823	1850.16	0.0007	P	10.7
4	☐	10.000	9.313	3080.41	0.0011	P	0.3
5	☐	100.000	99.916	26953.97	0.0104	P	2.0
6	☐	200.000	200.084	52379.10	0.0207	P	1.7

y = 1.0250E-004 * x + 1.8530E-004
R = 1.0000
DL = 0.2346
BEC = 1.808

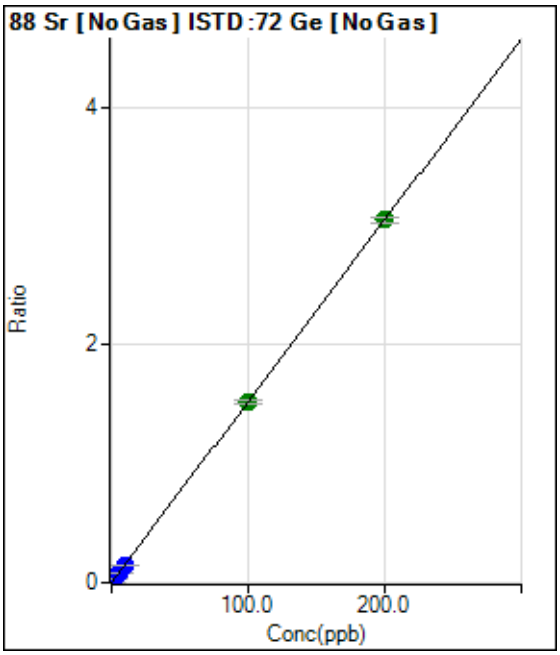
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	23.2
2	☐	2.000	2.041	150.00	0.0002	P	12.9
3	☐	5.000	4.517	256.68	0.0004	P	23.9
4	☐	10.000	8.564	420.02	0.0007	P	10.4
5	☐	100.000	103.462	4284.08	0.0073	P	7.1
6	☐	200.000	198.352	8022.51	0.0138	P	3.7

y = 6.9307E-005 * x + 1.0190E-004
R = 0.9997
DL = 1.024
BEC = 1.47

Weight: <None>
Min Conc: <None>

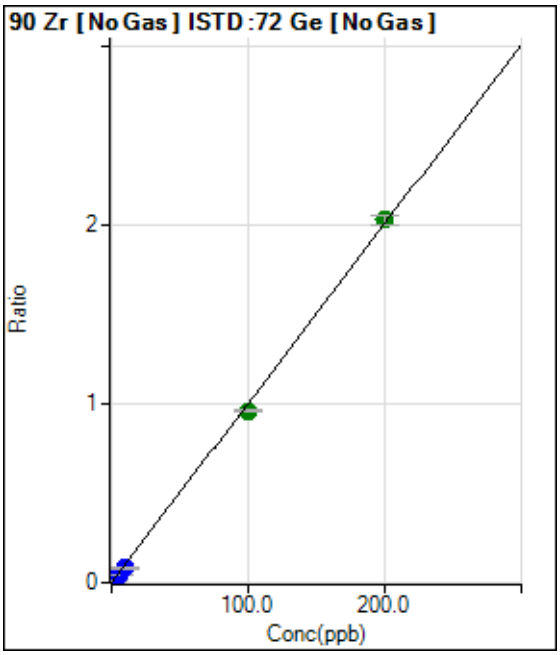


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.41	0.0004	P	14.0
2	☐	2.000	2.070	88095.60	0.0319	P	3.2
3	☐	5.000	5.150	214670.16	0.0789	P	1.3
4	☐	10.000	9.713	400778.12	0.1484	P	4.1
5	☐	100.000	99.686	3925838.27	1.5187	A	1.8
6	☐	200.000	200.167	7717524.47	3.0492	A	1.7

y = 0.0152 * x + 4.2277E-004
R = 1.0000
DL = 0.0117
BEC = 0.02776

Weight: <None>
Min Conc: <None>

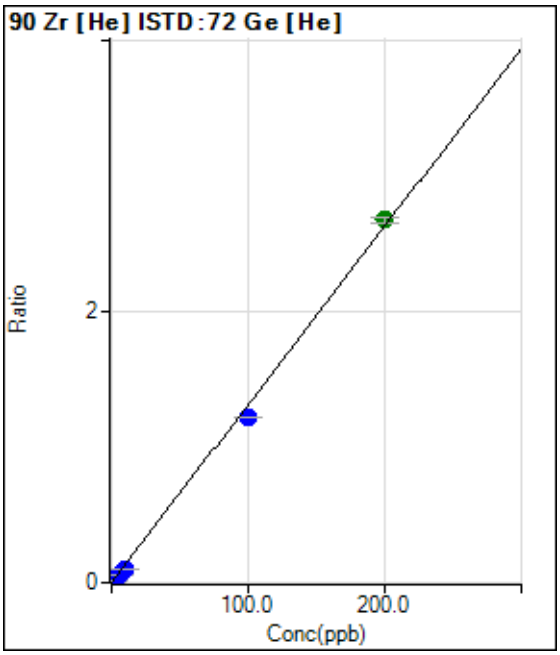
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2213.57	0.0008	P	4.0
2	☐	2.000	1.538	44738.49	0.0162	P	3.8
3	☐	5.000	4.015	111771.07	0.0411	P	0.8
4	☐	10.000	8.004	218951.62	0.0810	P	2.4
5	☐	100.000	95.640	2480639.03	0.9596	A	0.7
6	☐	200.000	202.309	5135108.15	2.0291	A	2.8

y = 0.0100 * x + 8.0462E-004
R = 0.9997
DL = 0.009725
BEC = 0.08026

Weight: <None>
Min Conc: <None>

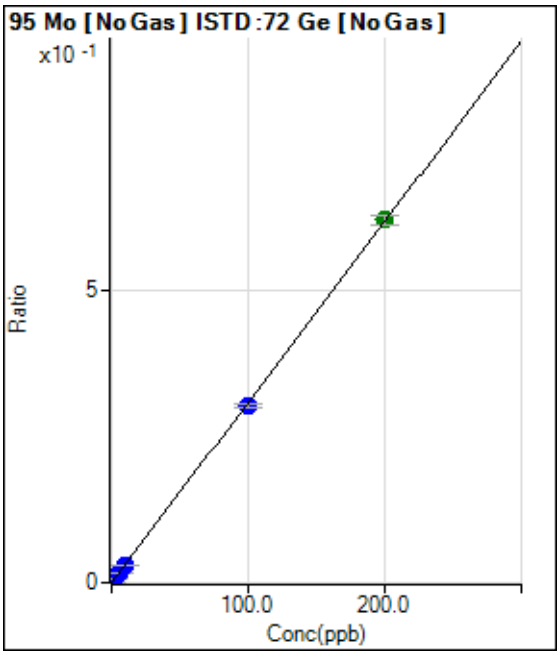


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1053.40	0.0017	P	11.5
2	☐	2.000	1.482	13019.82	0.0211	P	2.2
3	☐	5.000	3.959	33124.65	0.0536	P	1.4
4	☐	10.000	7.782	62640.06	0.1038	P	2.1
5	☐	100.000	92.743	717327.62	1.2179	P	1.0
6	☐	200.000	203.771	1548850.24	2.6739	A	1.6

y = 0.0131 * x + 0.0017
R = 0.9991
DL = 0.04472
BEC = 0.1295

Weight: <None>
Min Conc: <None>

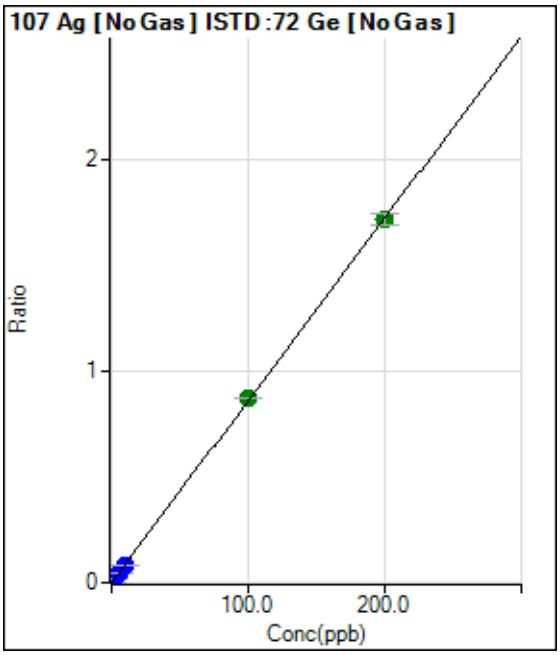
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0001	P	10.3
2	☐	2.000	1.998	17298.16	0.0063	P	3.5
3	☐	5.000	4.914	41628.54	0.0153	P	1.4
4	☐	10.000	9.238	77440.99	0.0287	P	3.1
5	☐	100.000	98.009	783901.32	0.3033	P	1.1
6	☐	200.000	201.036	1574004.25	0.6219	A	2.6

y = 0.0031 * x + 9.1966E-005
R = 0.9999
DL = 0.009189
BEC = 0.02973

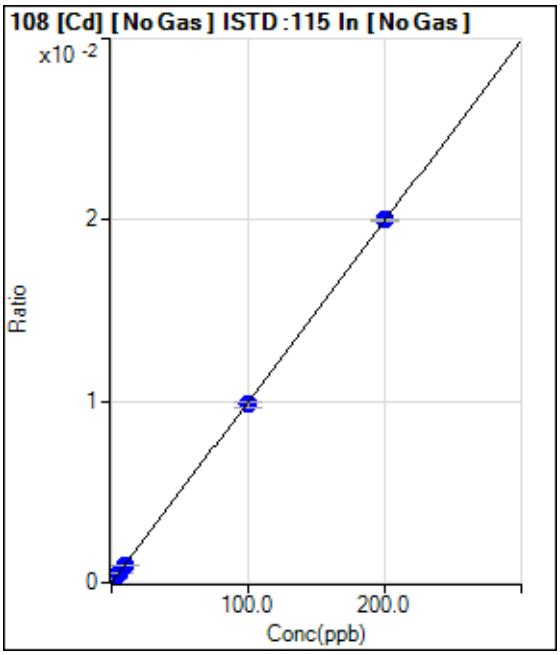
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	350.01	0.0001	P	7.0
2	☐	2.000	2.010	48000.85	0.0174	P	4.4
3	☐	5.000	5.081	119274.33	0.0438	P	1.1
4	☐	10.000	9.598	223271.04	0.0827	P	4.1
5	☐	100.000	101.438	2254935.28	0.8723	A	0.8
6	☐	200.000	199.299	4337143.48	1.7137	A	3.1

y = 0.0086 * x + 1.2713E-004
R = 1.0000
DL = 0.003099
BEC = 0.01479

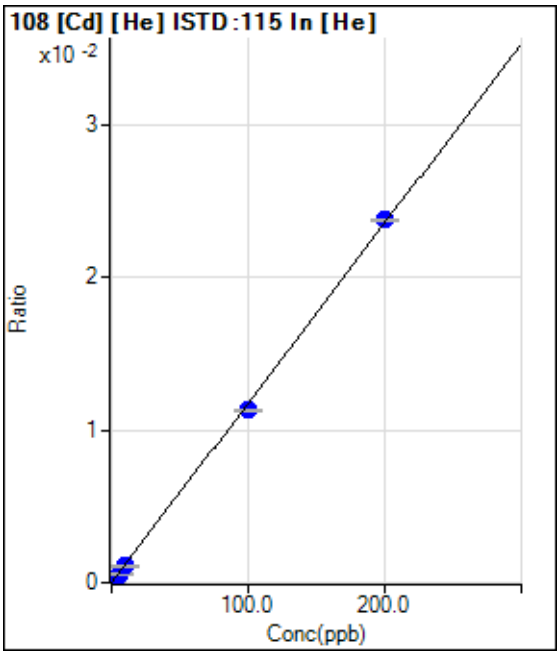
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	2.087	816.70	0.0002	P	7.4
3	☐	5.000	5.015	1903.51	0.0005	P	4.1
4	☐	10.000	9.697	3730.60	0.0010	P	6.3
5	☐	100.000	98.663	36383.61	0.0098	P	2.8
6	☐	200.000	200.682	72035.87	0.0200	P	0.7

y = 9.9747E-005 * x + 0.0000E+000
R = 1.0000
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

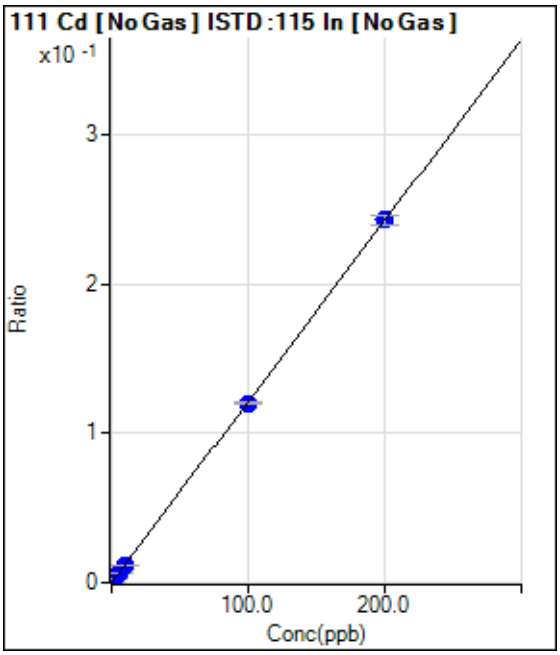


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	2.196	300.01	0.0003	P	17.0
3	☐	5.000	4.748	636.69	0.0006	P	23.1
4	☐	10.000	9.145	1226.75	0.0011	P	9.0
5	☐	100.000	96.046	12342.66	0.0113	P	1.6
6	☐	200.000	202.024	24940.56	0.0238	P	0.8

y = 1.1771E-004 * x + 2.8676E-006
R = 0.9997
DL = 0.1266
BEC = 0.02436

Weight: <None>
Min Conc: <None>

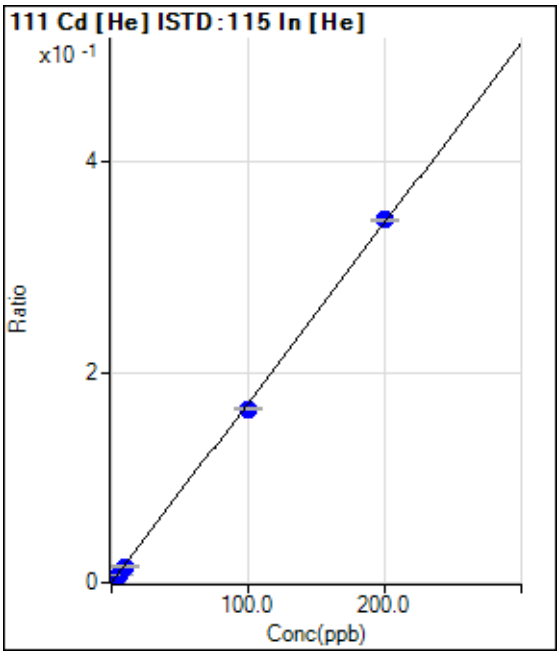
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.943	9261.10	0.0024	P	4.5
3	☐	5.000	5.096	23549.21	0.0062	P	0.6
4	☐	10.000	9.527	44586.68	0.0116	P	1.7
5	☐	100.000	99.081	444659.73	0.1203	P	1.5
6	☐	200.000	200.481	875525.28	0.2433	P	2.5

y = 0.0012 * x + 1.7567E-006
R = 1.0000
DL = 0.007521
BEC = 0.001447

Weight: <None>
Min Conc: <None>

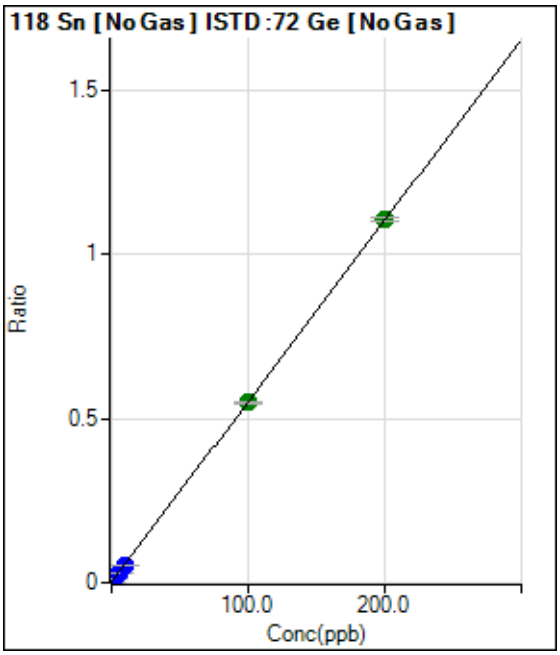


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.91	0.0000	P	86.8
2	☐	2.000	1.979	3889.13	0.0034	P	2.0
3	☐	5.000	4.717	9125.98	0.0081	P	3.0
4	☐	10.000	9.025	17549.85	0.0154	P	3.0
5	☐	100.000	96.668	180397.88	0.1653	P	0.4
6	☐	200.000	201.722	361758.35	0.3449	P	0.4

y = 0.0017 * x + 5.9017E-006
R = 0.9998
DL = 0.008992
BEC = 0.003451

Weight: <None>
Min Conc: <None>

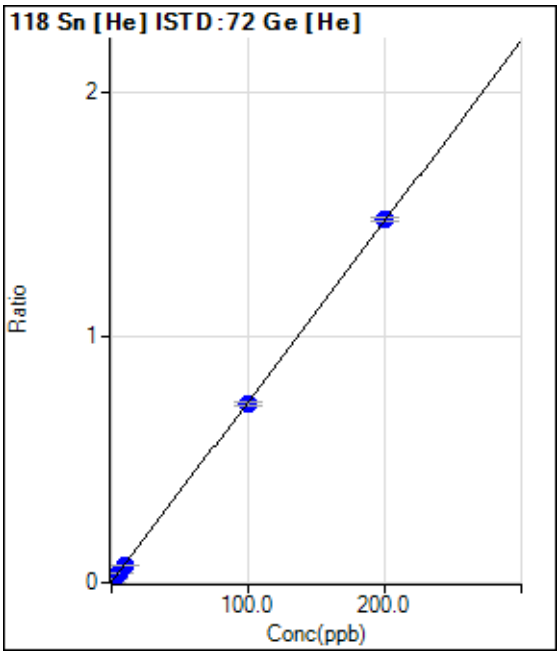
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3010.40	0.0011	P	2.5
2	☐	2.000	1.958	32731.09	0.0119	P	3.7
3	☐	5.000	4.926	76753.55	0.0282	P	2.3
4	☐	10.000	9.474	143784.23	0.0532	P	2.9
5	☐	100.000	99.297	1415088.16	0.5474	A	0.9
6	☐	200.000	200.380	2793364.75	1.1036	A	1.2

y = 0.0055 * x + 0.0011
R = 1.0000
DL = 0.01482
BEC = 0.1989

Weight: <None>
Min Conc: <None>

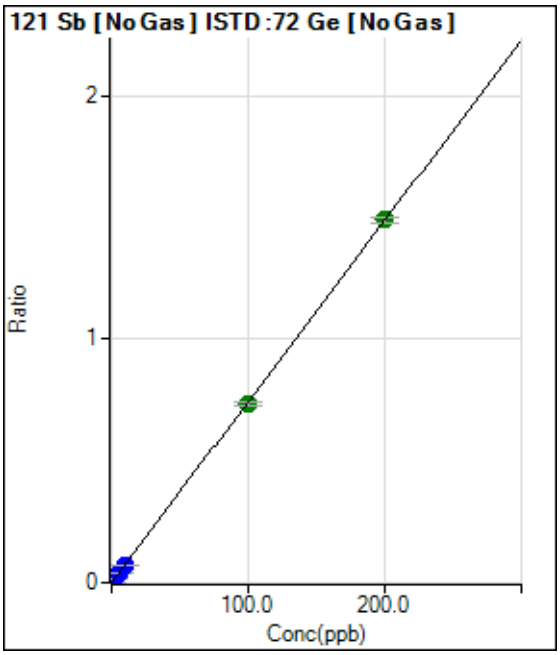


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	840.05	0.0014	P	6.3
2	☐	2.000	1.932	9593.65	0.0156	P	3.3
3	☐	5.000	4.906	23140.81	0.0375	P	3.2
4	☐	10.000	9.389	42525.87	0.0704	P	4.1
5	☐	100.000	98.606	428140.89	0.7269	P	1.8
6	☐	200.000	200.730	856265.98	1.4783	P	1.2

y = 0.0074 * x + 0.0014
R = 1.0000
DL = 0.03468
BEC = 0.1839

Weight: <None>
Min Conc: <None>

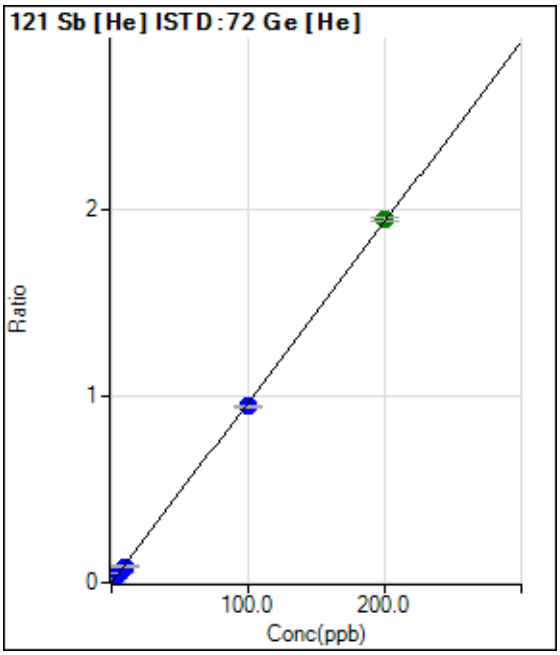
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	813.37	0.0003	P	22.6
2	☐	2.000	2.014	42027.50	0.0152	P	3.6
3	☐	5.000	4.886	99468.59	0.0365	P	1.8
4	☐	10.000	9.225	185693.52	0.0687	P	3.3
5	☐	100.000	98.851	1896516.07	0.7337	A	2.0
6	☐	200.000	200.616	3767941.92	1.4887	A	1.6

y = 0.0074 * x + 2.9650E-004
R = 1.0000
DL = 0.02706
BEC = 0.03996

Weight: <None>
Min Conc: <None>

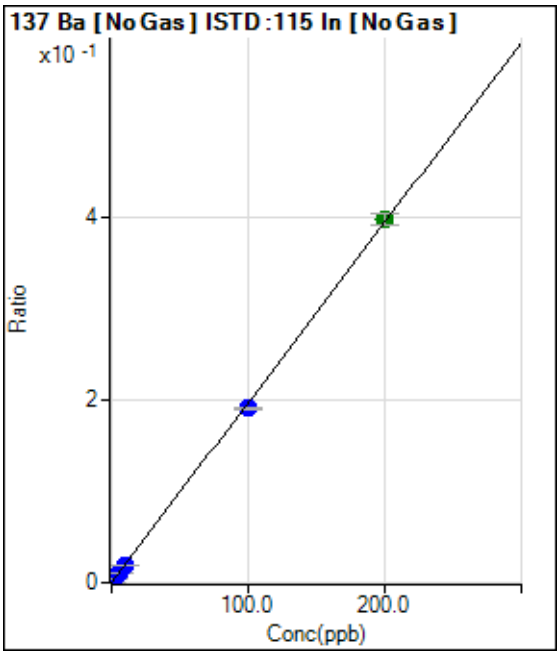


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	266.68	0.0004	P	27.1
2	☐	2.000	1.975	12029.06	0.0195	P	5.7
3	☐	5.000	4.956	29871.01	0.0483	P	3.1
4	☐	10.000	9.013	52870.15	0.0876	P	1.9
5	☐	100.000	97.800	557157.30	0.9459	P	1.5
6	☐	200.000	201.151	1126586.13	1.9451	A	1.1

y = 0.0097 * x + 4.3019E-004
R = 0.9999
DL = 0.0362
BEC = 0.0445

Weight: <None>
Min Conc: <None>

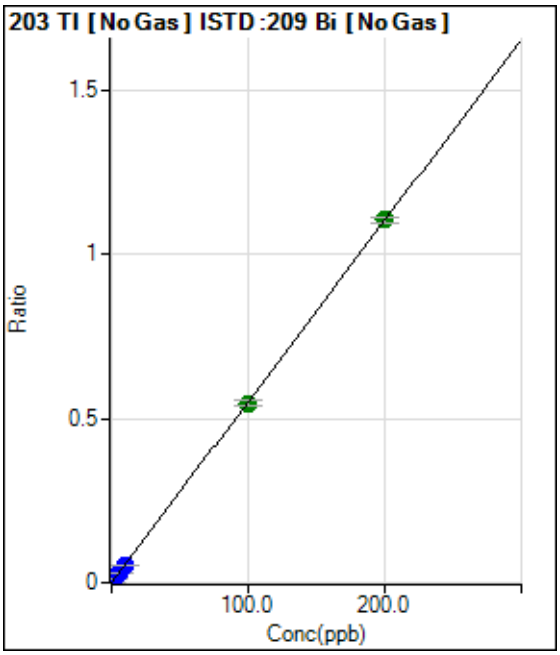
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.00	0.0001	P	24.6
2	☐	2.000	1.975	15499.45	0.0039	P	2.6
3	☐	5.000	5.018	37889.13	0.0100	P	1.5
4	☐	10.000	9.240	70508.15	0.0183	P	1.9
5	☐	100.000	96.968	707691.29	0.1914	P	1.5
6	☐	200.000	201.554	1431197.11	0.3978	A	3.3

y = 0.0020 * x + 5.1961E-005
R = 0.9998
DL = 0.01944
BEC = 0.02633

Weight: <None>
Min Conc: <None>

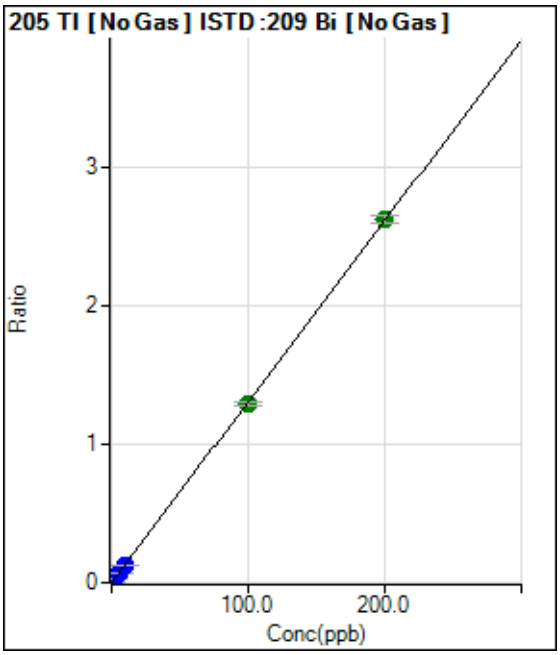


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0000	P	25.5
2	☐	2.000	1.808	36002.09	0.0100	P	2.8
3	☐	5.000	4.929	95940.26	0.0272	P	0.9
4	☐	10.000	9.286	181406.26	0.0513	P	4.1
5	☐	100.000	99.016	1890519.56	0.5463	A	3.1
6	☐	200.000	200.532	3678192.55	1.1065	A	1.6

y = 0.0055 * x + 2.7313E-005
R = 1.0000
DL = 0.003786
BEC = 0.00495

Weight: <None>
Min Conc: <None>

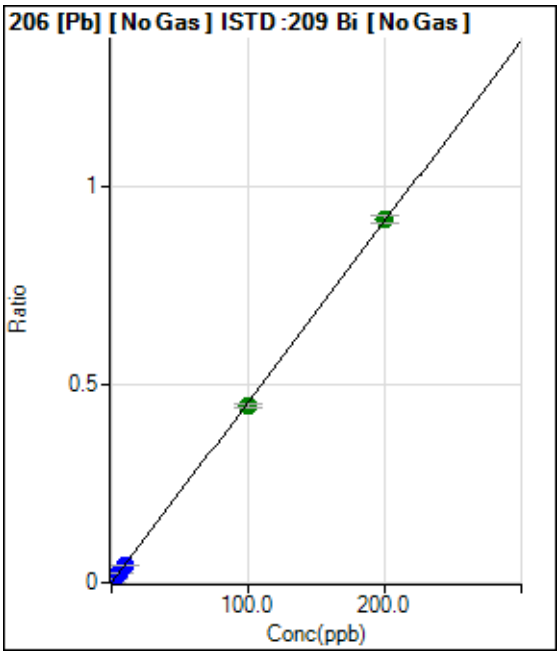
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0001	P	25.0
2	☐	2.000	1.802	84881.15	0.0236	P	5.0
3	☐	5.000	5.036	232022.45	0.0658	P	2.0
4	☐	10.000	9.423	435736.61	0.1231	P	3.3
5	☐	100.000	98.764	4462836.60	1.2899	A	2.6
6	☐	200.000	200.648	8710972.79	2.6206	A	2.2

y = 0.0131 * x + 6.0244E-005
R = 1.0000
DL = 0.003456
BEC = 0.004613

Weight: <None>
Min Conc: <None>

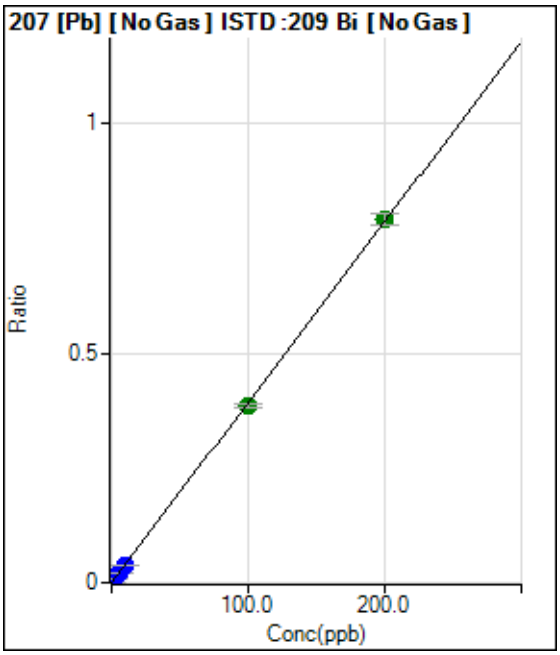


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0000	P	18.4
2	☐	2.000	1.911	31597.10	0.0088	P	4.0
3	☐	5.000	5.023	81012.48	0.0230	P	2.9
4	☐	10.000	9.412	152251.27	0.0430	P	4.3
5	☐	100.000	98.423	1555068.21	0.4495	A	2.1
6	☐	200.000	200.818	3048328.08	0.9170	A	2.1

y = 0.0046 * x + 4.9067E-005
R = 1.0000
DL = 0.005935
BEC = 0.01075

Weight: <None>
Min Conc: <None>

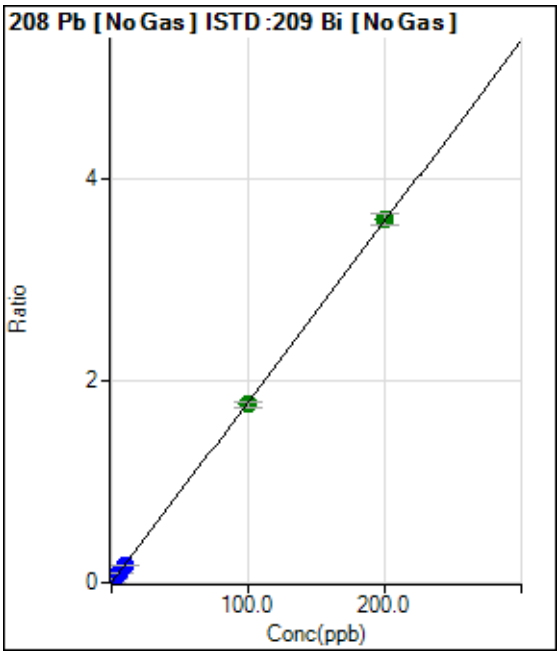
Calibration for 088_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0001	P	6.2
2	☐	2.000	1.952	27848.16	0.0077	P	3.7
3	☐	5.000	4.970	69087.86	0.0196	P	0.6
4	☐	10.000	9.348	130292.99	0.0368	P	4.2
5	☐	100.000	97.886	1331757.22	0.3850	A	2.7
6	☐	200.000	201.091	2628463.55	0.7908	A	3.3

y = 0.0039 * x + 6.0349E-005
R = 0.9999
DL = 0.002858
BEC = 0.01535

Weight: <None>
Min Conc: <None>

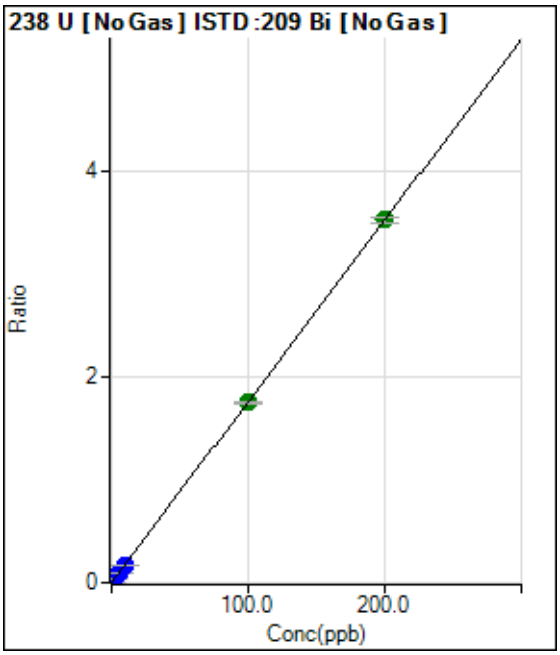


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	940.03	0.0003	P	14.5
2	☐	2.000	1.963	127202.64	0.0353	P	3.8
3	☐	5.000	5.041	318483.87	0.0904	P	1.2
4	☐	10.000	9.544	604620.96	0.1709	P	3.3
5	☐	100.000	98.465	6089635.80	1.7601	A	2.4
6	☐	200.000	200.790	11929135.29	3.5890	A	3.1

y = 0.0179 * x + 2.6600E-004
R = 1.0000
DL = 0.006495
BEC = 0.01488

Weight: <None>
Min Conc: <None>

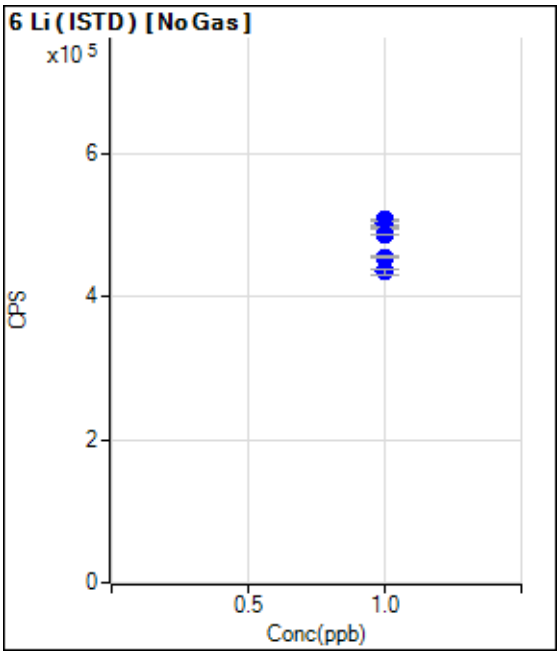
Calibration for 088_ICV.d



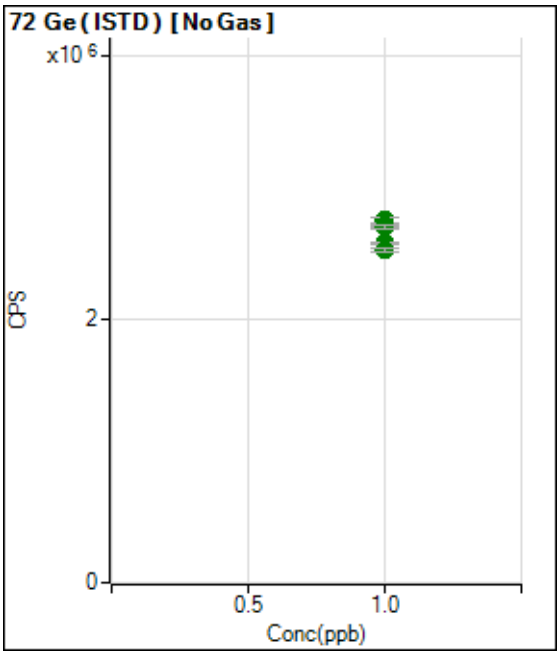
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.02	0.0001	P	4.9
2	☐	2.000	1.914	121562.48	0.0338	P	3.5
3	☐	5.000	4.858	301389.81	0.0855	P	1.1
4	☐	10.000	9.330	580790.71	0.1641	P	3.3
5	☐	100.000	99.375	6044826.16	1.7467	A	1.7
6	☐	200.000	200.350	11706251.91	3.5214	A	1.9

y = 0.0176 * x + 1.3288E-004
R = 1.0000
DL = 0.001121
BEC = 0.007561

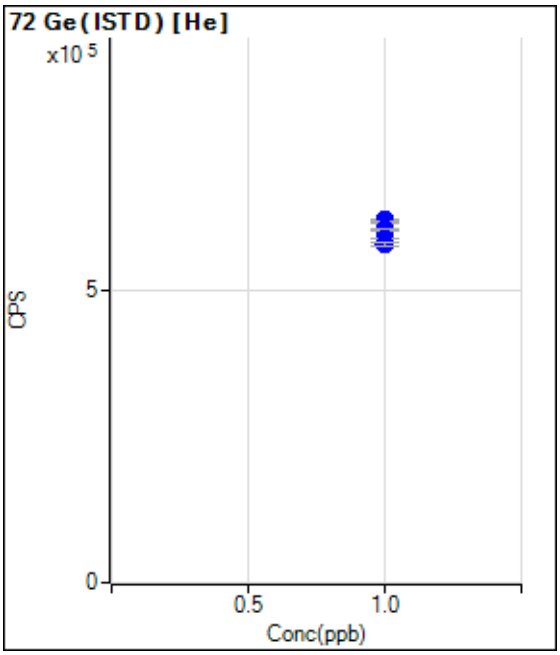
Weight: <None>
Min Conc: <None>



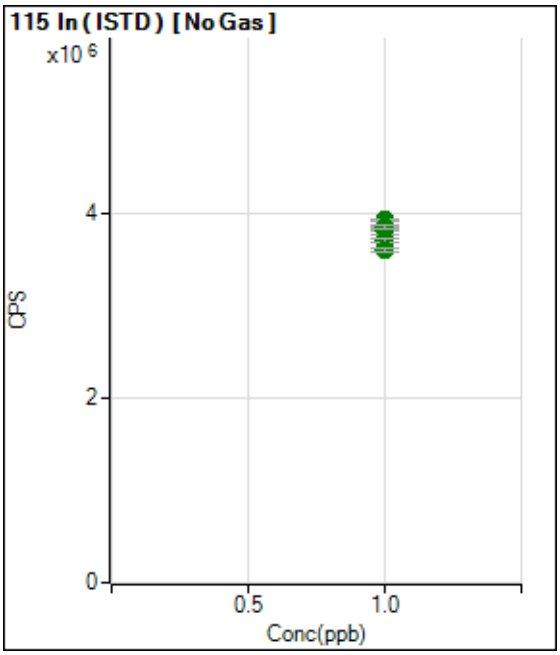
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		506608.76		P	0.8
2	☐	1.000		503313.82		P	1.0
3	☐	1.000		495879.16		P	0.5
4	☐	1.000		486542.86		P	0.3
5	☐	1.000		454938.24		P	0.1
6	☐	1.000		433701.62		P	1.4



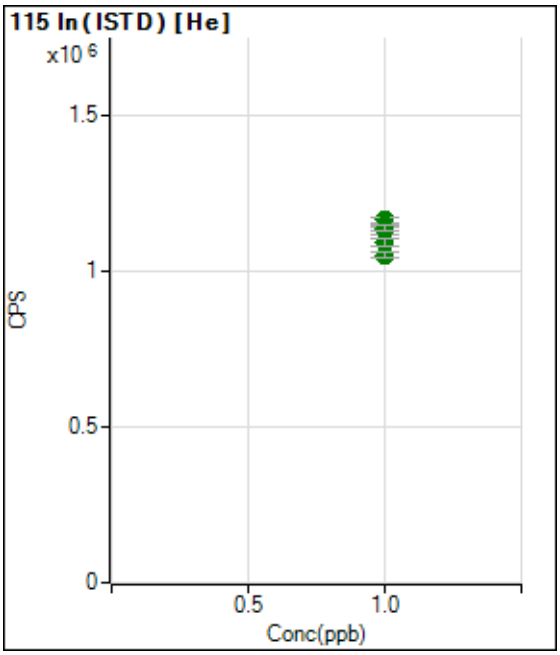
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2751281.21		A	2.0
2	☐	1.000		2758365.89		A	1.4
3	☐	1.000		2722243.08		A	1.1
4	☐	1.000		2702242.36		A	1.4
5	☐	1.000		2584993.09		A	0.4
6	☐	1.000		2531384.75		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		620673.35		P	0.9
2	☐	1.000		616097.49		P	0.5
3	☐	1.000		617820.30		P	0.7
4	☐	1.000		603747.18		P	0.8
5	☐	1.000		588974.30		P	0.5
6	☐	1.000		579205.19		P	0.7

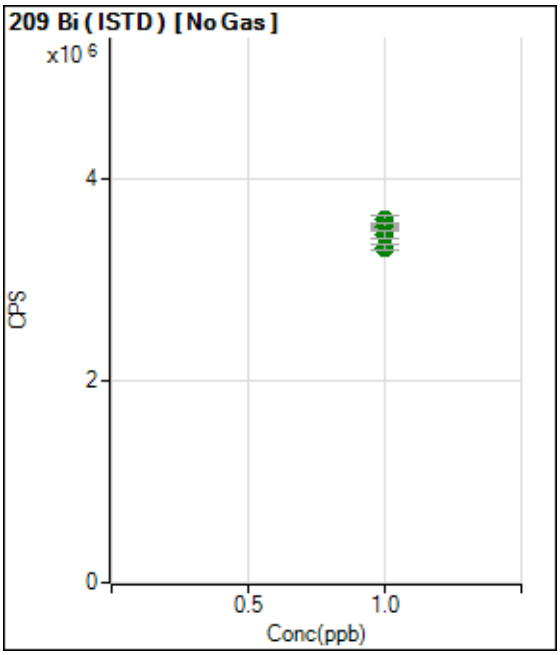


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3841255.92		A	1.3
2	☐	1.000		3923930.66		A	0.9
3	☐	1.000		3806159.04		A	1.7
4	☐	1.000		3855128.52		A	1.2
5	☐	1.000		3697564.23		A	0.9
6	☐	1.000		3598803.99		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1163109.08		A	1.4
2	☐	1.000		1147226.00		A	0.9
3	☐	1.000		1130184.56		A	2.2
4	☐	1.000		1136932.07		A	1.8
5	☐	1.000		1091328.39		A	1.8
6	☐	1.000		1048792.56		A	1.9

Calibration for 088_ICV.d



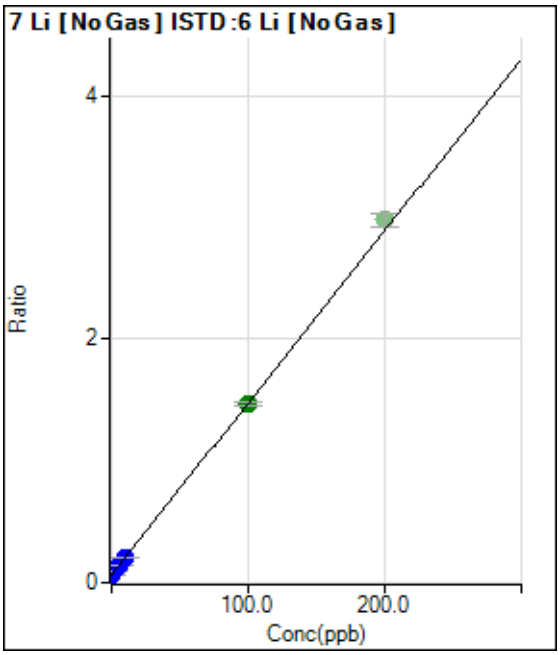
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3536340.99		A	0.9
2	☐	1.000		3600716.41		A	2.4
3	☐	1.000		3524562.34		A	0.5
4	☐	1.000		3539823.91		A	1.3
5	☐	1.000		3460725.16		A	2.3
6	☐	1.000		3324820.99		A	1.5

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\051524B.b\
Analysis File: 051524B.batch.bin
DA Date-Time: 5/15/2024 9:56:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/15/2024 11:22:30 AM
2	011CALS.d	2/10/200	5/15/2024 11:24:26 AM
3	012CALS.d	5/25/500	5/15/2024 11:26:21 AM
4	013CALS.d	10/50/100	5/15/2024 11:28:17 AM
5	018CALS.d	100/500/10K	5/15/2024 11:41:43 AM
6	015CALS.d	200/1000/20K	5/15/2024 11:32:01 AM

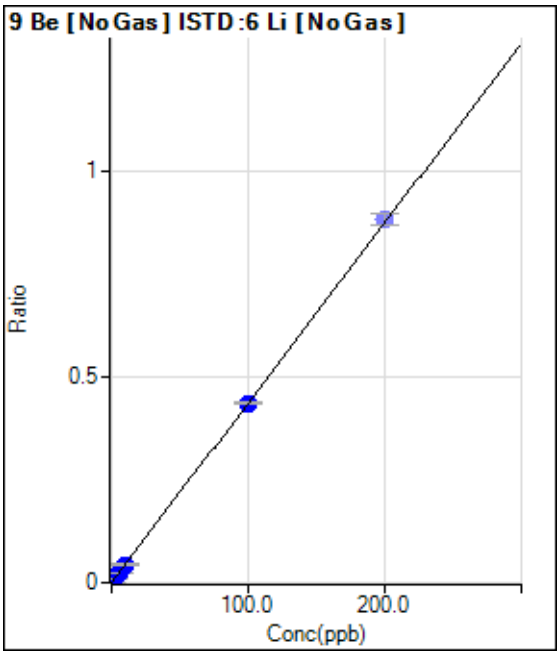
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33615.00	0.0643	P	0.2
2	☐	2.000	2.074	48516.51	0.0936	P	1.3
3	☐	5.000	5.270	70959.05	0.1387	P	1.5
4	☐	10.000	10.383	107004.45	0.2108	P	1.5
5	☐	100.000	99.947	740393.24	1.4749	A	2.2
6	☑	200.000		1414528.52	2.9786	A	4.0

y = 0.0141 * x + 0.0643
R = 1.0000
DL = 0.03302
BEC = 4.556

Weight: <None>
Min Conc: <None>

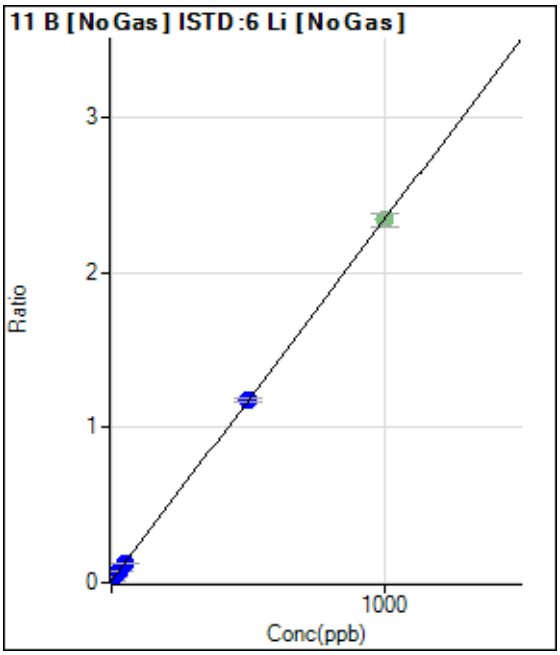


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.00	0.0001	P	65.9
2	☐	2.000	2.065	4717.50	0.0091	P	6.0
3	☐	5.000	5.142	11536.44	0.0225	P	1.6
4	☐	10.000	10.121	22493.03	0.0443	P	1.7
5	☐	100.000	99.979	219464.98	0.4372	P	1.9
6	☑	200.000		419077.07	0.8824	P	3.2

y = 0.0044 * x + 6.7053E-005
R = 1.0000
DL = 0.03034
BEC = 0.01534

Weight: <None>
Min Conc: <None>

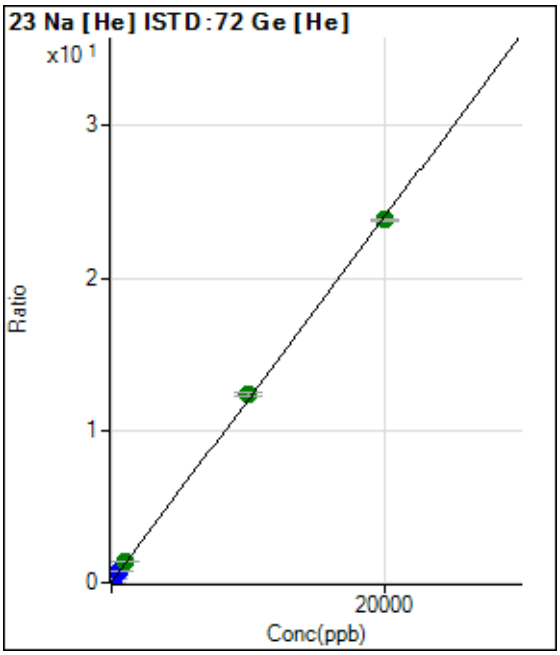
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5981.32	0.0114	P	2.6
2	☐	10.000	9.843	17829.70	0.0344	P	1.1
3	☐	25.000	25.385	36129.68	0.0706	P	1.2
4	☐	50.000	50.288	65294.08	0.1286	P	1.0
5	☐	500.000	499.955	590729.13	1.1767	P	1.5
6	☑	1000.000		1111646.13	2.3408	A	3.6

y = 0.0023 * x + 0.0114
R = 1.0000
DL = 0.3834
BEC = 4.909

Weight: <None>
Min Conc: <None>

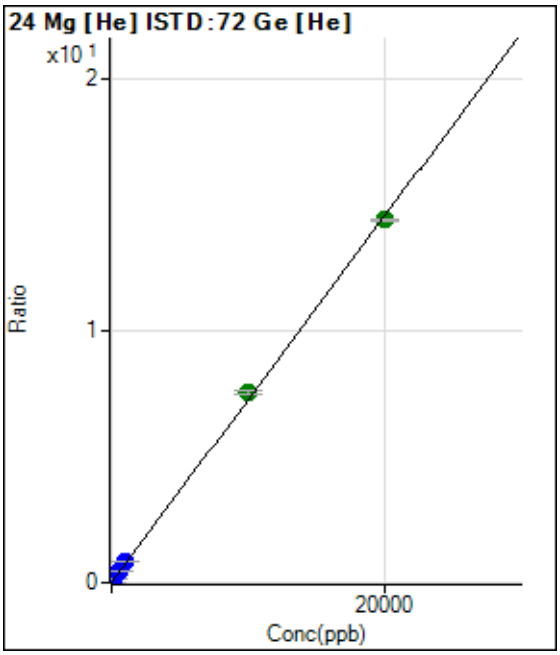


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18322.21	0.0339	P	1.7
2	☐	200.000	229.766	168102.58	0.3092	P	1.5
3	☐	500.000	584.416	397675.74	0.7342	P	0.8
4	☐	1000.000	1107.224	731444.62	1.3607	A	2.6
5	☐	10000.000	10300.636	6800088.86	12.3774	A	1.4
6	☐	20000.000	19841.913	12776303.14	23.8110	A	0.9

y = 0.0012 * x + 0.0339
R = 0.9998
DL = 1.485
BEC = 28.28

Weight: <None>
Min Conc: <None>

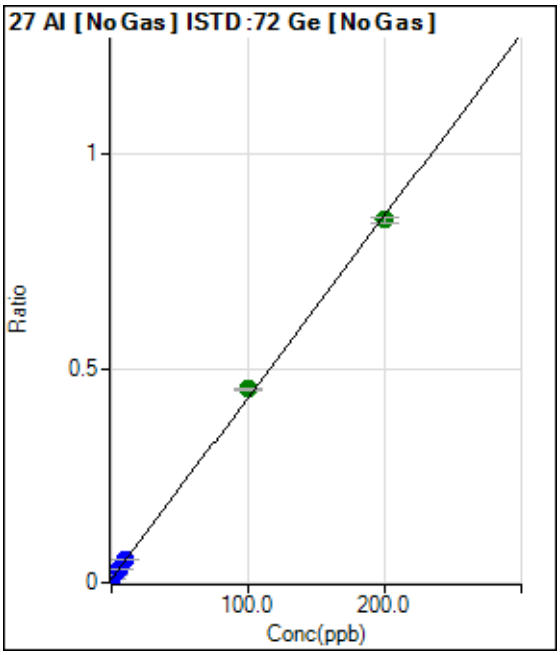
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.68	0.0007	P	15.0
2	☐	200.000	232.702	92364.44	0.1699	P	2.0
3	☐	500.000	587.146	231598.66	0.4276	P	0.9
4	☐	1000.000	1120.926	438453.78	0.8157	P	2.9
5	☐	10000.000	10374.161	4144112.33	7.5431	A	1.5
6	☐	20000.000	19804.368	7726528.22	14.3991	A	0.4

y = 7.2703E-004 * x + 7.1508E-004
R = 0.9998
DL = 0.4424
BEC = 0.9836

Weight: <None>
Min Conc: <None>

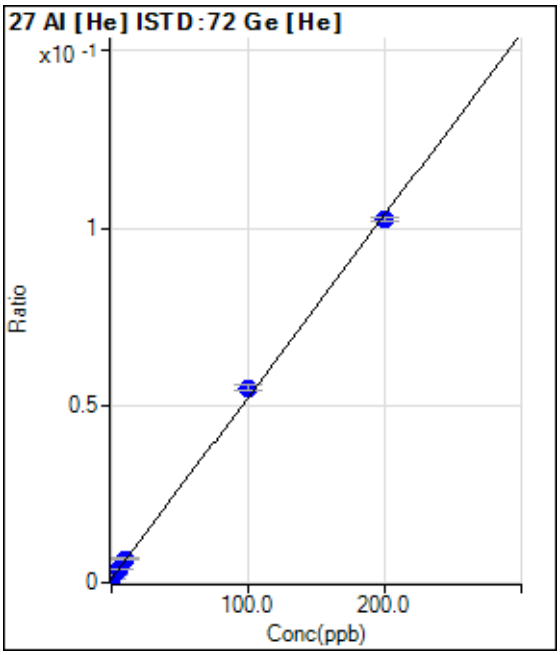


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18622.72	0.0080	P	1.5
2	☐	2.000	2.136	40141.37	0.0171	P	2.4
3	☐	5.000	5.540	73687.96	0.0316	P	1.8
4	☐	10.000	10.861	126635.68	0.0542	P	2.7
5	☐	100.000	104.538	1053769.46	0.4519	A	0.6
6	☐	200.000	197.673	1955192.11	0.8474	A	1.5

y = 0.0042 * x + 0.0080
R = 0.9996
DL = 0.08368
BEC = 1.895

Weight: <None>
Min Conc: <None>

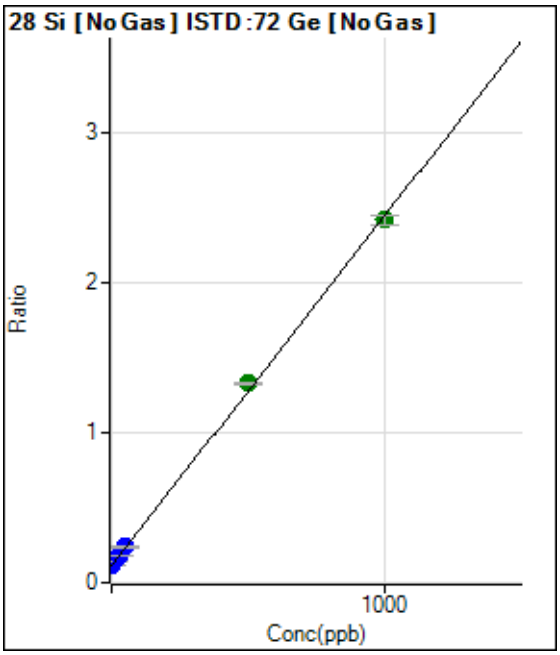
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	530.02	0.0010	P	12.6
2	☐	2.000	2.591	1256.75	0.0023	P	3.4
3	☐	5.000	5.449	2046.86	0.0038	P	2.2
4	☐	10.000	11.051	3577.20	0.0067	P	7.5
5	☐	100.000	105.129	30193.22	0.0550	P	2.9
6	☐	200.000	197.366	54904.84	0.1023	P	1.1

y = 5.1344E-004 * x + 9.8107E-004
R = 0.9995
DL = 0.7212
BEC = 1.911

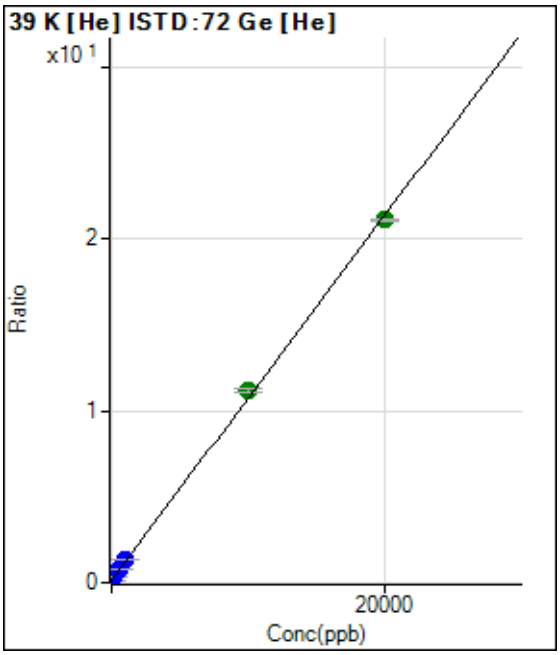
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	259624.09	0.1122	P	0.4
2	☐	10.000	12.252	330278.65	0.1408	P	4.5
3	☐	25.000	27.709	412580.70	0.1768	P	0.6
4	☐	50.000	54.125	557319.61	0.2384	P	1.5
5	☐	500.000	521.133	3093967.35	1.3269	A	0.6
6	☐	1000.000	989.137	5578332.42	2.4178	A	2.8

y = 0.0023 * x + 0.1122
R = 0.9997
DL = 0.5733
BEC = 48.13

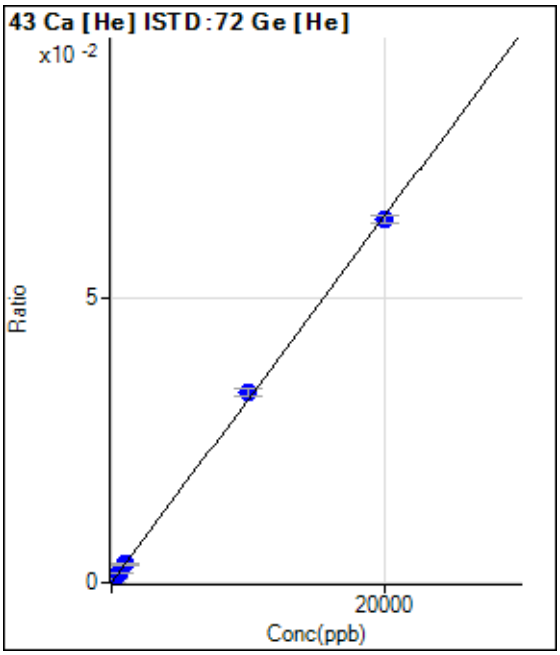
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76427.78	0.1414	P	1.4
2	☐	200.000	226.885	207669.89	0.3820	P	2.8
3	☐	500.000	586.366	413448.38	0.7633	P	1.3
4	☐	1000.000	1110.014	708915.95	1.3188	P	2.1
5	☐	10000.000	10440.324	6161779.07	11.2157	A	2.4
6	☐	20000.000	19771.909	11329742.33	21.1140	A	0.7

y = 0.0011 * x + 0.1414
R = 0.9997
DL = 5.504
BEC = 133.3

Weight: <None>
Min Conc: <None>

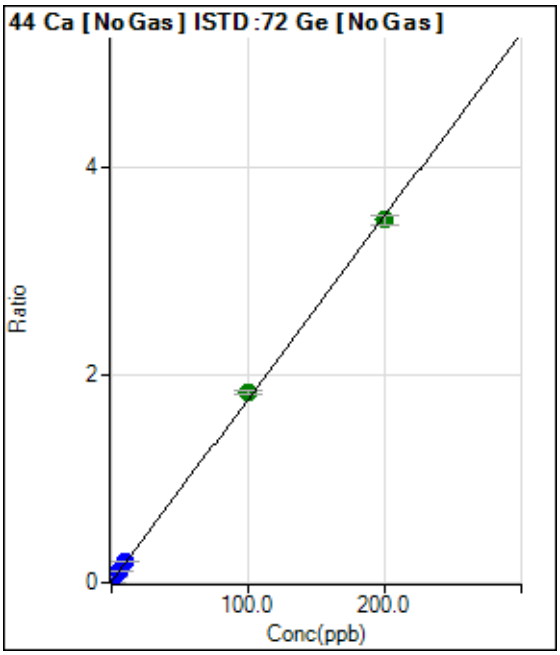


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	200.000	196.492	350.01	0.0006	P	12.1
3	☐	500.000	528.675	926.72	0.0017	P	7.2
4	☐	1000.000	1007.678	1746.80	0.0033	P	9.0
5	☐	10000.000	10405.917	18375.77	0.0334	P	3.4
6	☐	20000.000	19795.976	34132.50	0.0636	P	2.2

y = 3.2131E-006 * x + 1.2296E-005
R = 0.9997
DL = 9.943
BEC = 3.827

Weight: <None>
Min Conc: <None>

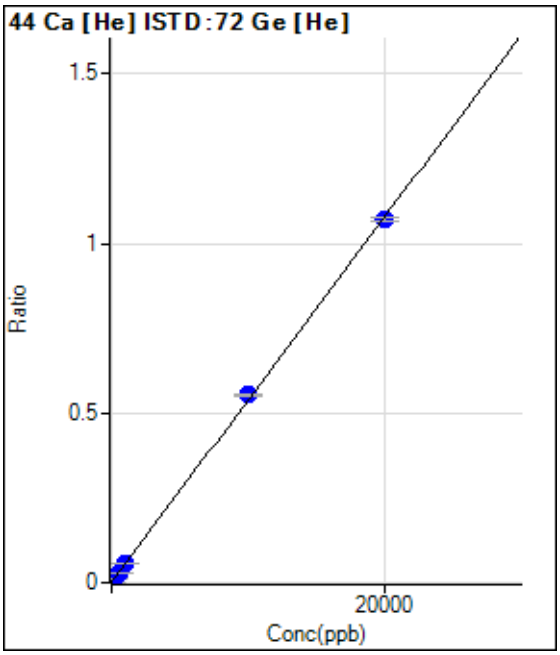
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17628.21	0.0076	P	0.9
2	☐	2.000	2.280	112066.49	0.0478	P	4.8
3	☐	5.000	5.591	247761.15	0.1062	P	1.0
4	☐	10.000	10.900	466933.68	0.1997	P	2.7
5	☐	100.000	104.009	4291654.20	1.8407	A	1.8
6	☐	200.000	197.933	8066059.88	3.4960	A	2.3

y = 0.0176 * x + 0.0076
R = 0.9997
DL = 0.01202
BEC = 0.4322

Weight: <None>
Min Conc: <None>

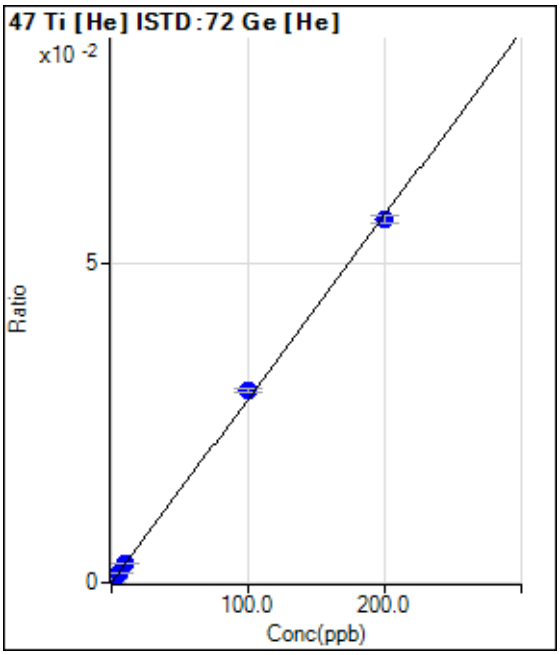


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.69	0.0009	P	4.7
2	☐	200.000	219.407	6905.19	0.0127	P	4.2
3	☐	500.000	541.093	16256.47	0.0300	P	4.1
4	☐	1000.000	1062.372	31209.02	0.0581	P	4.6
5	☐	10000.000	10274.506	304209.84	0.5537	P	1.2
6	☐	20000.000	19858.407	573810.05	1.0694	P	1.1

y = 5.3805E-005 * x + 9.0033E-004
R = 0.9999
DL = 2.352
BEC = 16.73

Weight: <None>
Min Conc: <None>

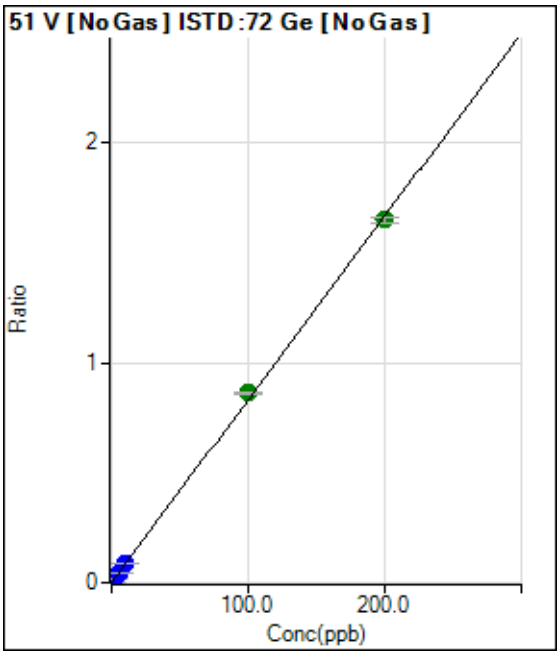
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	99.5
2	☐	2.000	2.372	380.01	0.0007	P	5.6
3	☐	5.000	5.339	840.04	0.0016	P	6.2
4	☐	10.000	10.521	1633.46	0.0030	P	2.6
5	☐	100.000	104.982	16566.97	0.0302	P	2.1
6	☐	200.000	197.471	30427.33	0.0567	P	2.1

y = 2.8706E-004 * x + 1.8397E-005
R = 0.9996
DL = 0.1913
BEC = 0.06409

Weight: <None>
Min Conc: <None>

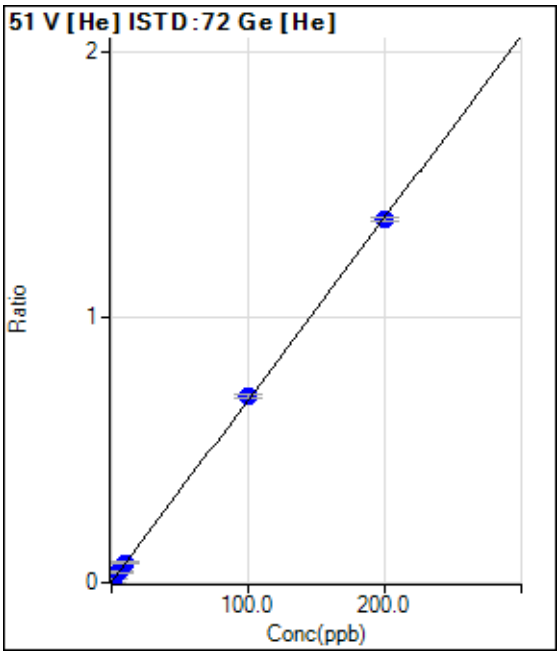


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1540.30	0.0007	P	354.7
2	☐	2.000	2.175	43882.24	0.0187	P	11.0
3	☐	5.000	5.244	103298.86	0.0443	P	3.6
4	☐	10.000	10.382	203384.01	0.0870	P	2.1
5	☐	100.000	103.617	2010620.47	0.8623	A	1.5
6	☐	200.000	198.164	3803559.17	1.6486	A	1.5

y = 0.0083 * x + 6.5572E-004
R = 0.9998
DL = 0.8392
BEC = 0.07885

Weight: <None>
Min Conc: <None>

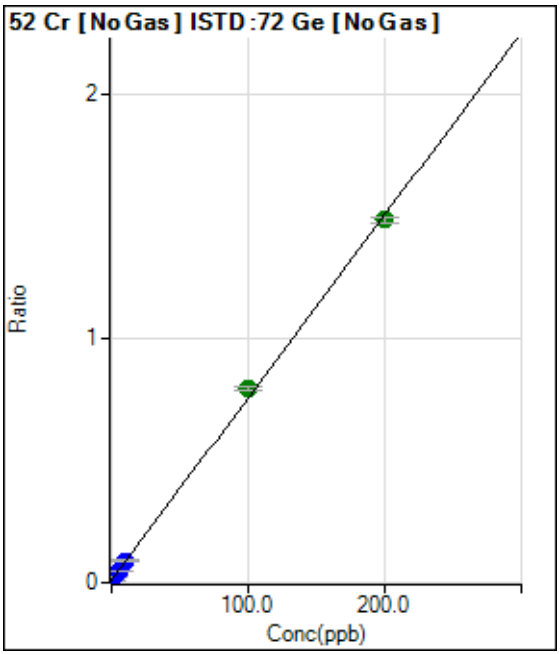
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1282.90	0.0024	P	25.7
2	☐	2.000	2.090	9093.20	0.0167	P	3.3
3	☐	5.000	5.492	21715.01	0.0401	P	5.7
4	☐	10.000	10.601	40412.58	0.0752	P	3.1
5	☐	100.000	102.247	387123.47	0.7046	P	1.8
6	☐	200.000	198.833	734034.27	1.3680	P	1.0

y = 0.0069 * x + 0.0024
R = 0.9999
DL = 0.266
BEC = 0.3453

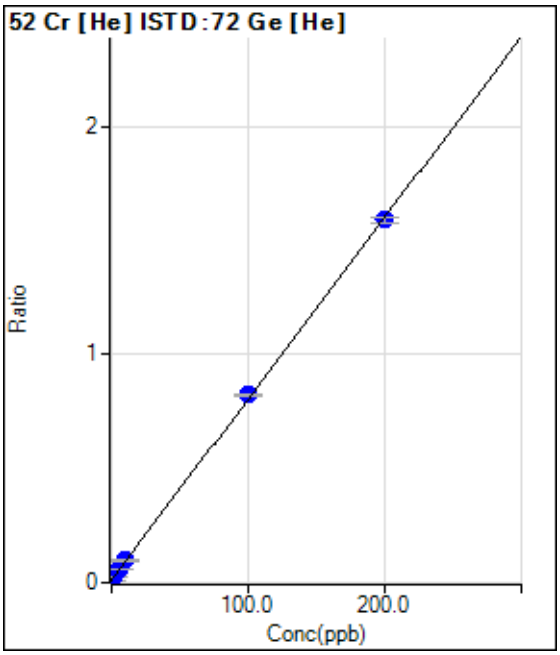
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23423.68	0.0101	P	2.5
2	☐	2.000	2.126	61018.84	0.0260	P	3.7
3	☐	5.000	5.450	118768.40	0.0509	P	1.2
4	☐	10.000	10.614	209263.46	0.0895	P	2.6
5	☐	100.000	104.982	1854363.46	0.7953	A	1.4
6	☐	200.000	197.466	3430763.80	1.4870	A	1.4

y = 0.0075 * x + 0.0101
R = 0.9996
DL = 0.1025
BEC = 1.354

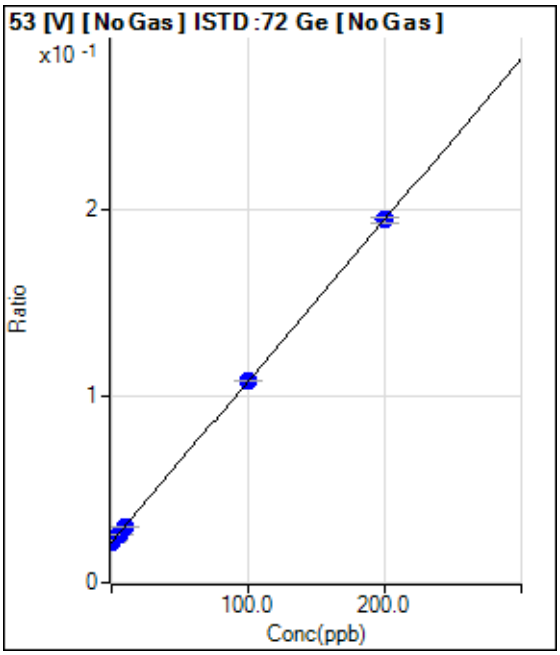
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6518.36	0.0121	P	4.7
2	☐	2.000	2.051	15395.55	0.0283	P	1.6
3	☐	5.000	5.567	30440.79	0.0562	P	0.4
4	☐	10.000	10.765	52363.70	0.0974	P	4.0
5	☐	100.000	102.155	451660.96	0.8221	P	1.0
6	☐	200.000	198.869	852606.08	1.5890	P	1.5

y = 0.0079 * x + 0.0121
R = 0.9999
DL = 0.2154
BEC = 1.521

Weight: <None>
Min Conc: <None>

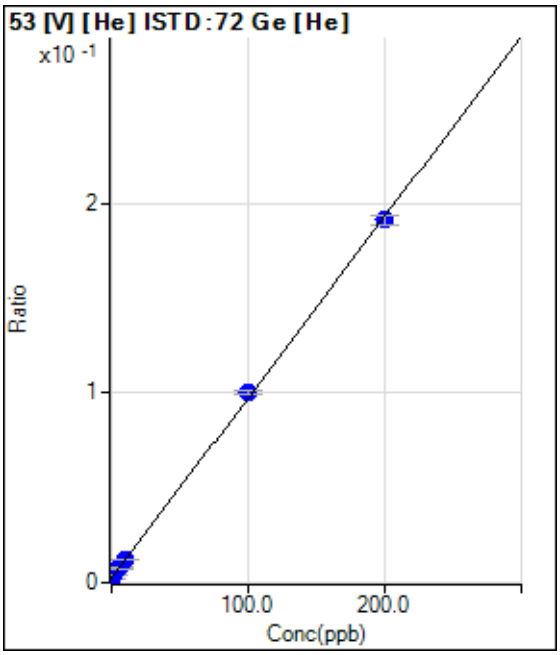


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50336.12	0.0218	P	4.5
2	☐	2.000	1.759	54592.39	0.0233	P	3.2
3	☐	5.000	5.017	60915.45	0.0261	P	0.6
4	☐	10.000	9.510	70115.96	0.0300	P	2.4
5	☐	100.000	100.230	253062.96	0.1085	P	0.7
6	☐	200.000	199.912	449533.90	0.1948	P	1.3

y = 8.6577E-004 * x + 0.0218
R = 1.0000
DL = 3.376
BEC = 25.13

Weight: <None>
Min Conc: <None>

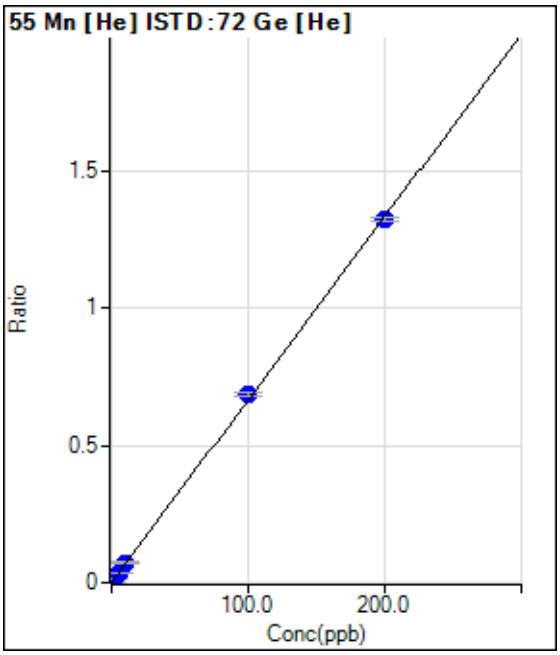
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1263.41	0.0023	P	5.6
2	☐	2.000	2.173	2393.58	0.0044	P	4.6
3	☐	5.000	5.594	4147.37	0.0077	P	6.5
4	☐	10.000	10.313	6528.34	0.0121	P	5.4
5	☐	100.000	102.984	55087.69	0.1003	P	2.7
6	☐	200.000	198.476	102532.21	0.1911	P	2.3

y = 9.5096E-004 * x + 0.0023
R = 0.9998
DL = 0.4116
BEC = 2.458

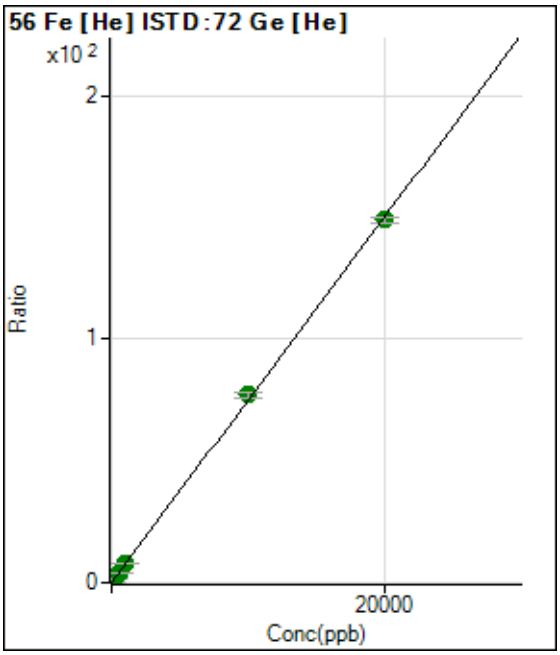
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0005	P	1.5
2	☐	2.000	2.273	8469.45	0.0156	P	2.3
3	☐	5.000	5.670	20682.62	0.0382	P	1.2
4	☐	10.000	10.916	39293.41	0.0731	P	2.2
5	☐	100.000	102.979	376769.24	0.6858	P	1.6
6	☐	200.000	198.445	708873.69	1.3211	P	1.2

y = 0.0067 * x + 4.5006E-004
R = 0.9998
DL = 0.002959
BEC = 0.06763

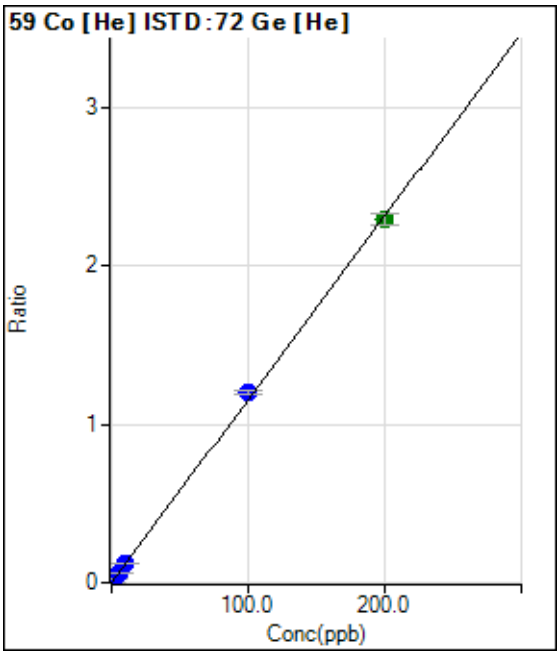
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13253.27	0.0245	P	5.1
2	☐	200.000	229.781	950205.46	1.7481	A	2.3
3	☐	500.000	565.964	2312725.07	4.2699	A	1.4
4	☐	1000.000	1079.056	4364202.43	8.1186	A	2.9
5	☐	10000.000	10275.364	42357893.53	77.1010	A	2.6
6	☐	20000.000	19856.418	79932167.14	148.9693	A	1.4

y = 0.0075 * x + 0.0245
R = 0.9999
DL = 0.4971
BEC = 3.269

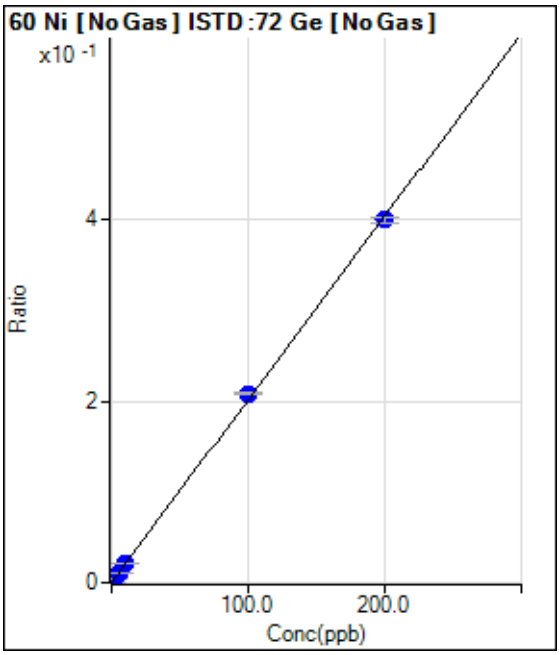
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	21.3
2	☐	2.000	2.263	14247.64	0.0262	P	1.7
3	☐	5.000	5.624	35239.17	0.0651	P	2.4
4	☐	10.000	10.833	67336.03	0.1253	P	2.5
5	☐	100.000	103.715	658652.67	1.1989	P	1.9
6	☐	200.000	198.083	1228531.47	2.2897	A	3.2

y = 0.0116 * x + 4.9299E-005
R = 0.9998
DL = 0.00273
BEC = 0.004265

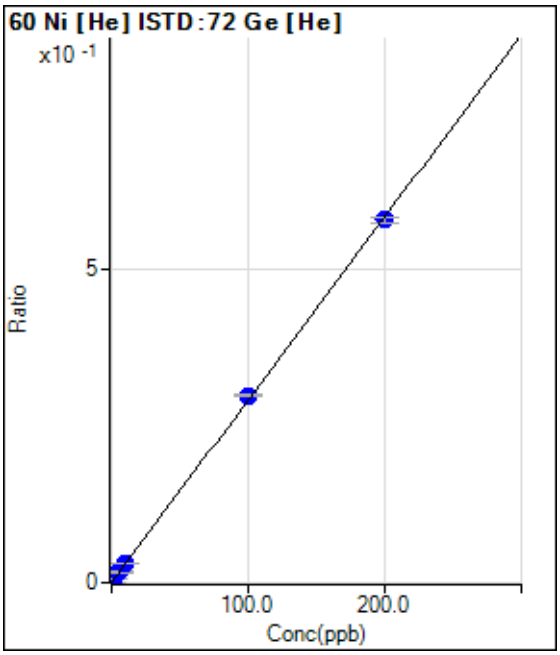
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0001	P	13.4
2	☐	2.000	2.214	10791.18	0.0046	P	2.9
3	☐	5.000	5.659	26940.23	0.0115	P	1.0
4	☐	10.000	10.709	50784.68	0.0217	P	1.6
5	☐	100.000	103.418	486256.31	0.2085	P	0.5
6	☐	200.000	198.237	921997.28	0.3996	P	1.6

y = 0.0020 * x + 1.3967E-004
R = 0.9998
DL = 0.02786
BEC = 0.06931

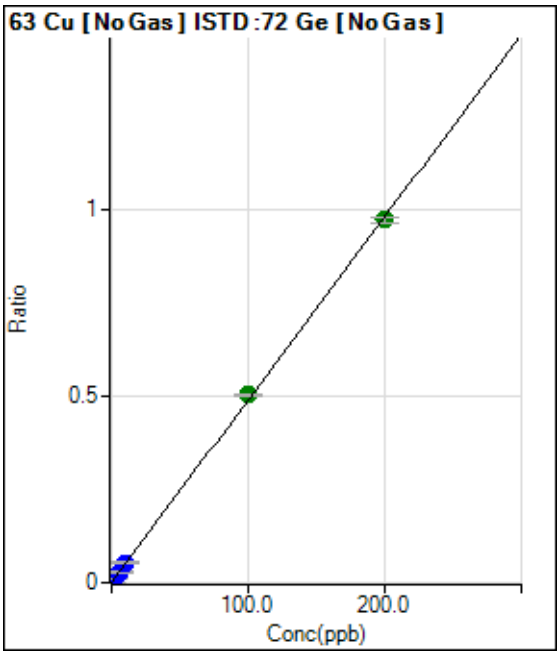
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0002	P	36.1
2	☐	2.000	2.256	3680.57	0.0068	P	10.9
3	☐	5.000	5.786	9249.91	0.0171	P	2.6
4	☐	10.000	10.709	16907.37	0.0315	P	1.8
5	☐	100.000	102.598	164658.01	0.2997	P	1.6
6	☐	200.000	198.643	311269.45	0.5801	P	1.5

y = 0.0029 * x + 1.8491E-004
R = 0.9999
DL = 0.06857
BEC = 0.06334

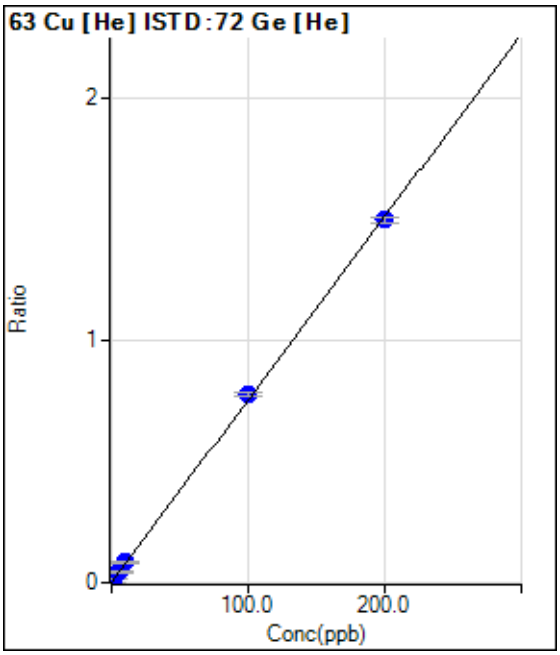
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1530.12	0.0007	P	17.7
2	☐	2.000	2.243	27314.49	0.0116	P	2.3
3	☐	5.000	5.633	65916.10	0.0282	P	1.7
4	☐	10.000	10.852	125774.41	0.0538	P	2.8
5	☐	100.000	102.723	1174255.17	0.5036	A	1.2
6	☐	200.000	198.578	2244755.12	0.9729	A	1.6

y = 0.0049 * x + 6.6171E-004
R = 0.9999
DL = 0.07157
BEC = 0.1351

Weight: <None>
Min Conc: <None>

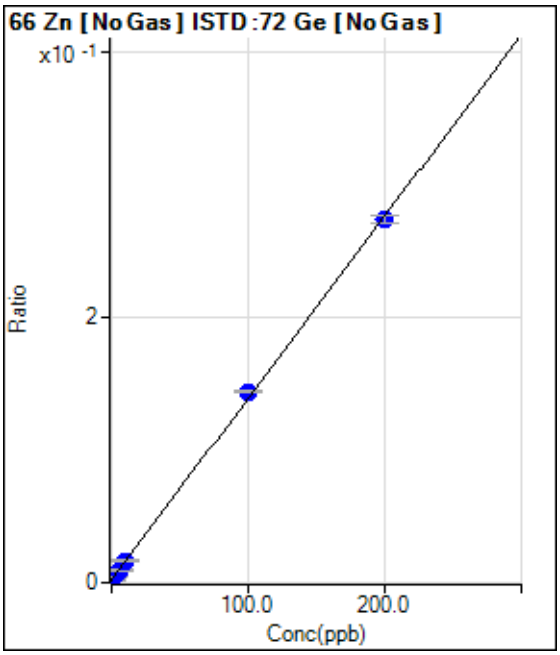


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533.36	0.0010	P	12.2
2	☐	2.000	2.153	9363.41	0.0172	P	5.6
3	☐	5.000	5.665	23680.93	0.0437	P	3.1
4	☐	10.000	10.929	44844.31	0.0834	P	1.9
5	☐	100.000	103.049	427584.23	0.7783	P	1.8
6	☐	200.000	198.411	803587.85	1.4976	P	1.3

y = 0.0075 * x + 9.8713E-004
R = 0.9998
DL = 0.04782
BEC = 0.1309

Weight: <None>
Min Conc: <None>

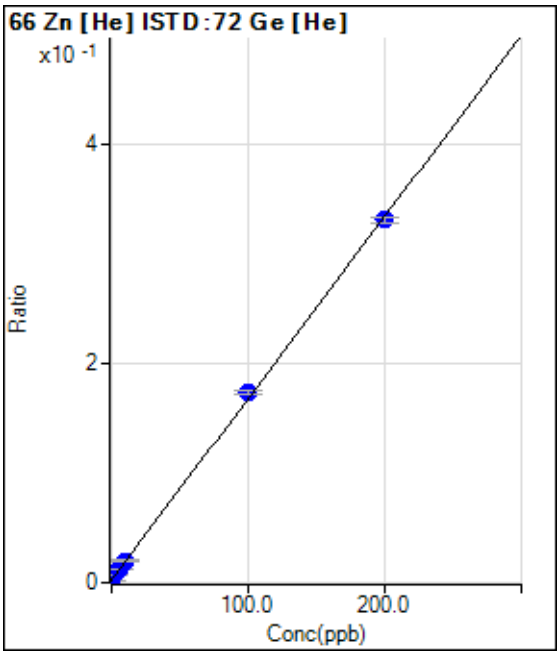
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4940.99	0.0021	P	4.1
2	☐	2.000	2.136	11875.37	0.0051	P	2.0
3	☐	5.000	5.280	21861.16	0.0094	P	2.5
4	☐	10.000	10.585	38882.61	0.0166	P	2.2
5	☐	100.000	103.702	336109.81	0.1442	P	1.0
6	☐	200.000	198.111	630828.08	0.2734	P	2.1

y = 0.0014 * x + 0.0021
R = 0.9998
DL = 0.193
BEC = 1.559

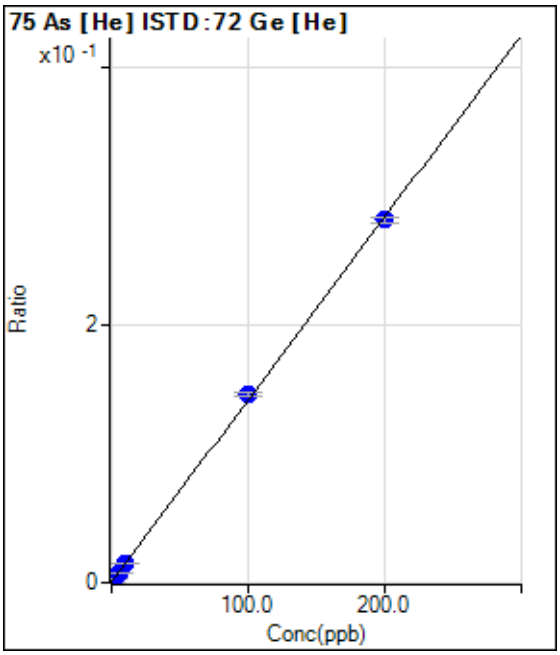
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1300.09	0.0024	P	11.5
2	☐	2.000	2.516	3577.21	0.0066	P	8.7
3	☐	5.000	5.666	6394.97	0.0118	P	1.0
4	☐	10.000	10.603	10751.12	0.0200	P	4.3
5	☐	100.000	103.199	95410.57	0.1737	P	1.4
6	☐	200.000	198.349	177921.57	0.3316	P	1.3

y = 0.0017 * x + 0.0024
R = 0.9998
DL = 0.5019
BEC = 1.449

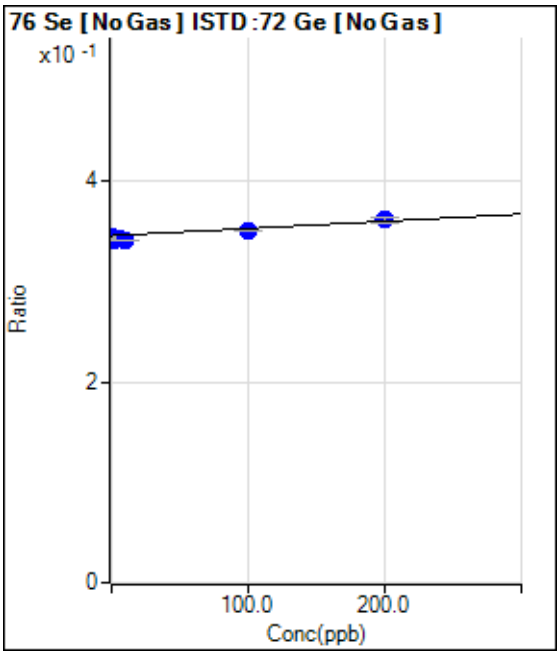
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.11	0.0003	P	17.0
2	☐	2.000	2.302	1955.71	0.0036	P	4.1
3	☐	5.000	5.434	4350.72	0.0080	P	3.6
4	☐	10.000	10.560	8221.43	0.0153	P	2.7
5	☐	100.000	102.645	80073.42	0.1457	P	1.9
6	☐	200.000	198.636	151181.54	0.2817	P	1.4

y = 0.0014 * x + 3.3495E-004
R = 0.9999
DL = 0.1209
BEC = 0.2364

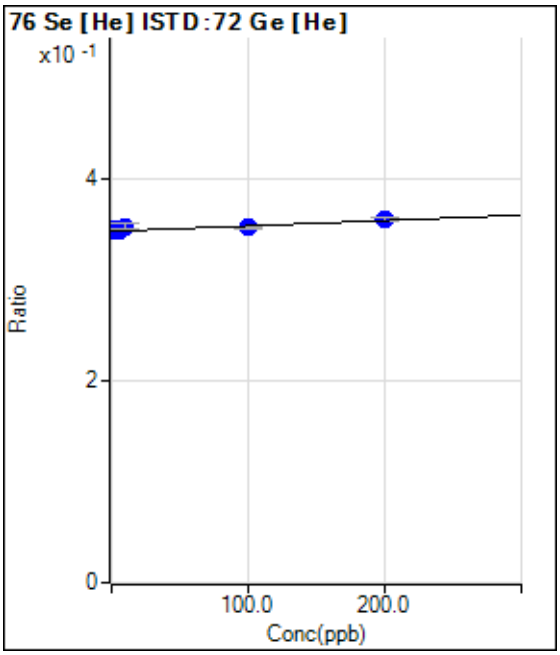
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	799582.59	0.3455	P	0.2
2	☐	2.000	-53.665	801369.47	0.3417	P	2.0
3	☐	5.000	-37.211	800191.81	0.3429	P	0.5
4	☐	10.000	-69.813	796232.18	0.3405	P	0.1
5	☐	100.000	75.654	818371.03	0.3510	P	0.1
6	☐	200.000	217.775	833331.50	0.3612	P	1.3

y = 7.1908E-005 * x + 0.3455
R = 0.9687
DL = 34.17
BEC = 4805

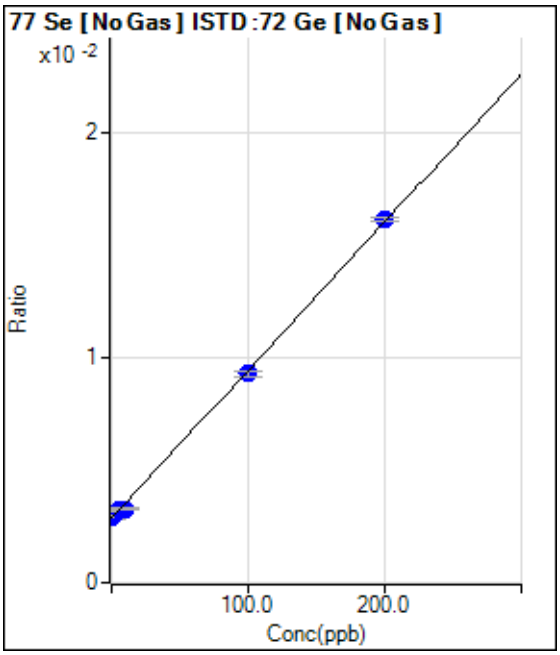
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188557.17	0.3488	P	0.2
2	☐	2.000	35.693	190624.66	0.3507	P	1.3
3	☐	5.000	15.636	189360.35	0.3496	P	0.1
4	☐	10.000	92.727	190156.00	0.3537	P	1.2
5	☐	100.000	70.652	193694.13	0.3526	P	0.5
6	☐	200.000	209.935	193166.01	0.3600	P	1.1

y = 5.3521E-005 * x + 0.3488
R = 0.8881
DL = 48.62
BEC = 6517

Weight: <None>
Min Conc: <None>

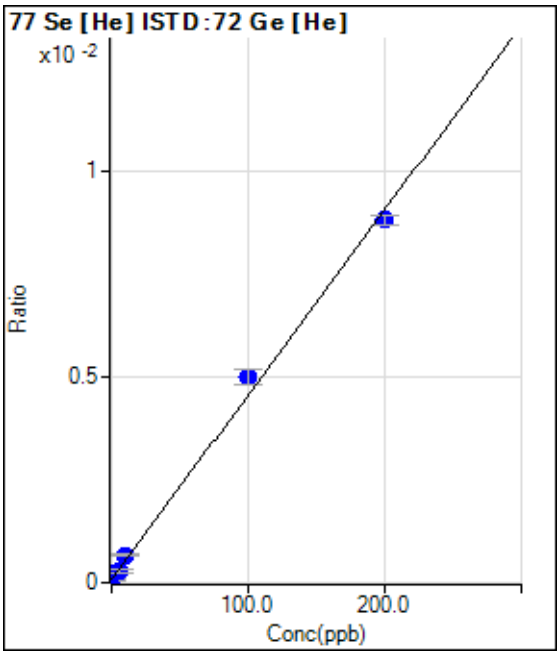


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6641.74	0.0029	P	5.6
2	☐	2.000	1.406	6948.57	0.0030	P	3.4
3	☐	5.000	5.624	7565.57	0.0032	P	3.4
4	☐	10.000	6.320	7685.69	0.0033	P	3.0
5	☐	100.000	97.505	21681.06	0.0093	P	2.8
6	☐	200.000	201.422	37258.50	0.0161	P	1.0

y = 6.5922E-005 * x + 0.0029
R = 0.9997
DL = 7.301
BEC = 43.55

Weight: <None>
Min Conc: <None>

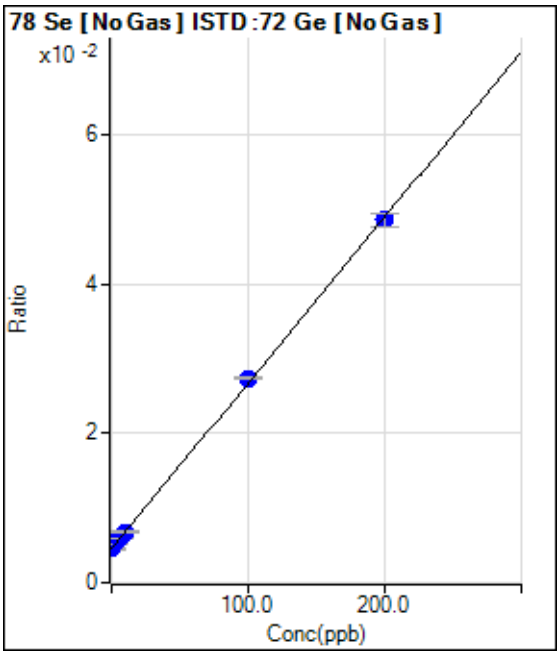
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	25.1
2	☐	2.000	3.691	130.00	0.0002	P	21.3
3	☐	5.000	4.525	150.00	0.0003	P	29.0
4	☐	10.000	13.145	356.68	0.0007	P	9.0
5	☐	100.000	110.121	2753.66	0.0050	P	7.2
6	☐	200.000	194.777	4727.59	0.0088	P	2.8

y = 4.4847E-005 * x + 7.3982E-005
R = 0.9981
DL = 1.241
BEC = 1.65

Weight: <None>
Min Conc: <None>

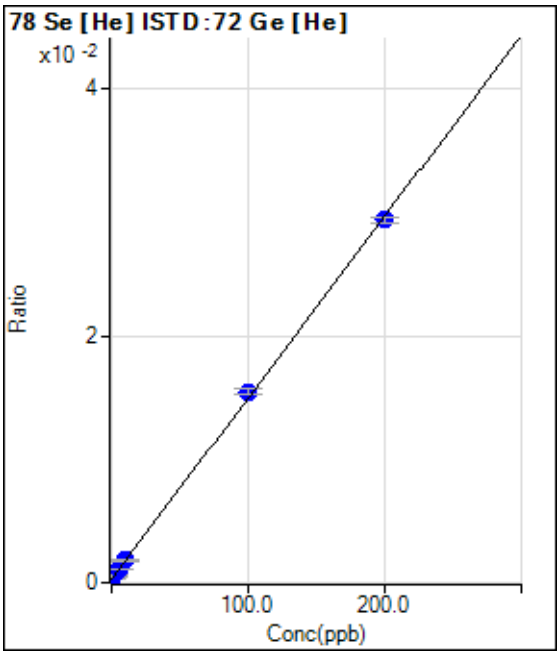


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10544.30	0.0046	P	3.1
2	☐	2.000	2.881	12189.08	0.0052	P	0.8
3	☐	5.000	6.046	13763.94	0.0059	P	1.6
4	☐	10.000	9.985	15829.53	0.0068	P	2.7
5	☐	100.000	103.027	63884.43	0.0274	P	0.9
6	☐	200.000	198.452	112019.89	0.0486	P	3.8

y = 2.2170E-004 * x + 0.0046
R = 0.9998
DL = 1.924
BEC = 20.55

Weight: <None>
Min Conc: <None>

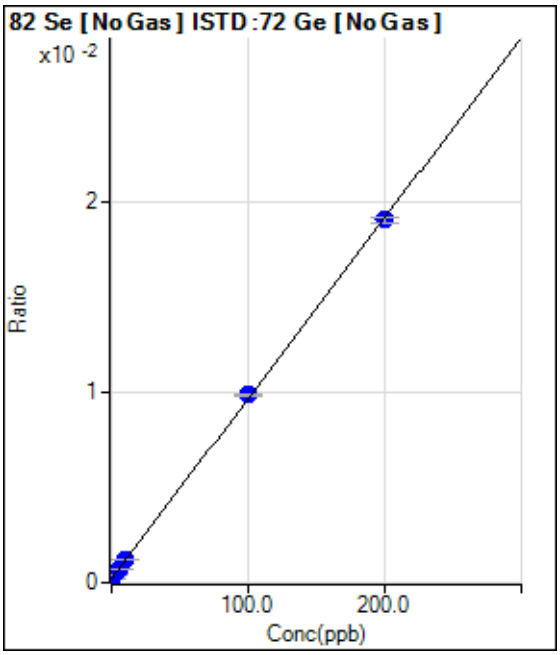
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.00	0.0003	P	8.1
2	☐	2.000	1.994	308.00	0.0006	P	7.7
3	☐	5.000	5.256	566.68	0.0010	P	1.3
4	☐	10.000	10.433	971.37	0.0018	P	4.0
5	☐	100.000	103.553	8511.37	0.0155	P	2.8
6	☐	200.000	198.195	15775.90	0.0294	P	1.8

y = 1.4697E-004 * x + 2.7375E-004
R = 0.9998
DL = 0.4547
BEC = 1.863

Weight: <None>
Min Conc: <None>

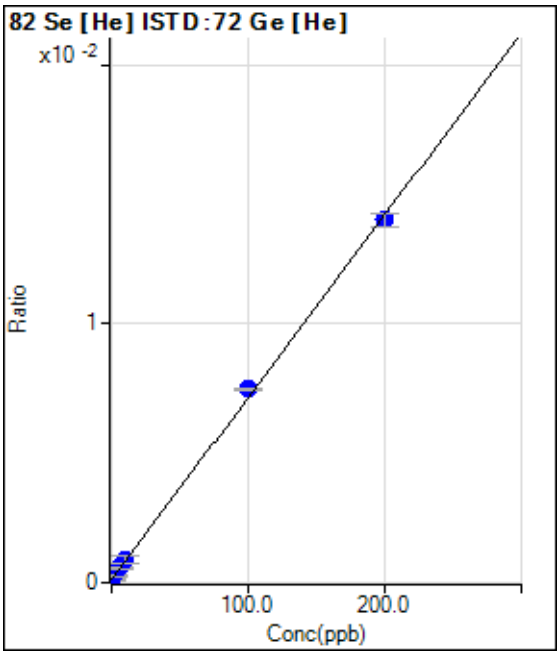


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	456.68	0.0002	P	27.3
2	☐	2.000	1.939	893.38	0.0004	P	12.4
3	☐	5.000	5.503	1680.13	0.0007	P	2.0
4	☐	10.000	11.076	2920.37	0.0012	P	1.2
5	☐	100.000	101.863	23010.02	0.0099	P	1.8
6	☐	200.000	199.003	44049.19	0.0191	P	1.8

y = 9.4945E-005 * x + 1.9739E-004
R = 0.9999
DL = 1.704
BEC = 2.079

Weight: <None>
Min Conc: <None>

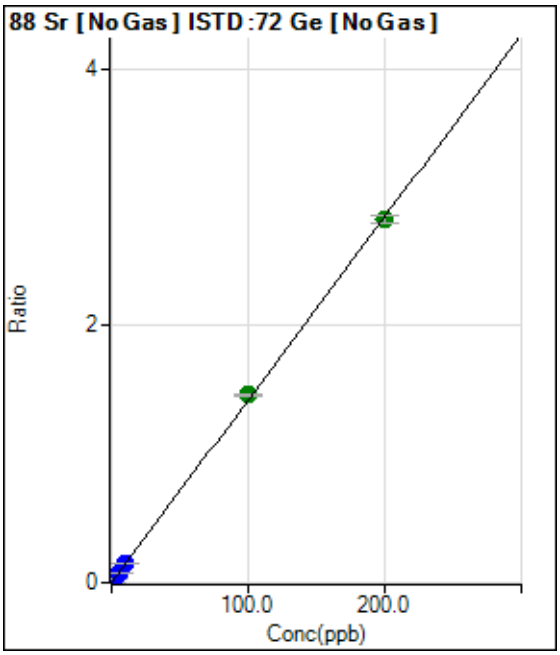
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	24.4
2	☐	2.000	2.070	143.34	0.0003	P	41.5
3	☐	5.000	6.290	303.34	0.0006	P	8.3
4	☐	10.000	11.183	486.68	0.0009	P	31.9
5	☐	100.000	104.859	4120.70	0.0075	P	1.0
6	☐	200.000	197.478	7522.25	0.0140	P	3.5

y = 7.0410E-005 * x + 1.1717E-004
R = 0.9996
DL = 1.216
BEC = 1.664

Weight: <None>
Min Conc: <None>

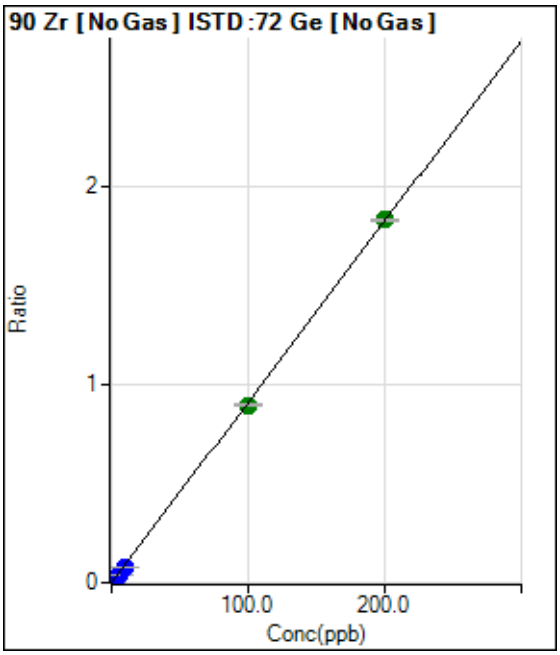


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	803.37	0.0003	P	14.1
2	☐	2.000	2.164	73038.28	0.0311	P	3.0
3	☐	5.000	5.473	182587.91	0.0782	P	0.8
4	☐	10.000	10.673	355925.11	0.1522	P	3.0
5	☐	100.000	102.773	3411184.32	1.4630	A	1.2
6	☐	200.000	198.567	6520503.24	2.8264	A	2.0

y = 0.0142 * x + 3.4732E-004
R = 0.9999
DL = 0.01036
BEC = 0.0244

Weight: <None>
Min Conc: <None>

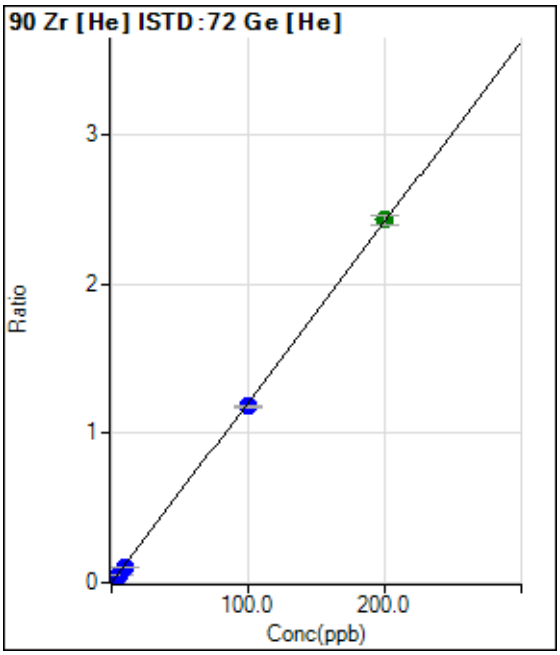
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1453.45	0.0006	P	4.7
2	☐	2.000	1.632	36409.85	0.0155	P	3.2
3	☐	5.000	4.251	92055.30	0.0394	P	0.9
4	☐	10.000	8.863	190697.02	0.0816	P	2.5
5	☐	100.000	98.339	2095206.06	0.8986	A	1.6
6	☐	200.000	200.910	4234372.75	1.8353	A	0.5

y = 0.0091 * x + 6.2799E-004
R = 1.0000
DL = 0.009759
BEC = 0.06877

Weight: <None>
Min Conc: <None>

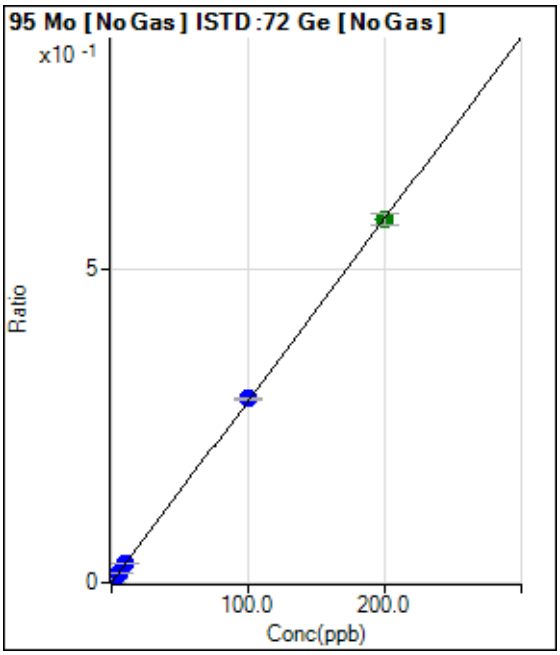


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	876.71	0.0016	P	7.7
2	☐	2.000	1.652	11732.03	0.0216	P	1.9
3	☐	5.000	4.260	28764.60	0.0531	P	3.9
4	☐	10.000	8.788	57958.78	0.1078	P	2.9
5	☐	100.000	97.702	649539.62	1.1823	P	1.1
6	☐	200.000	201.232	1305738.26	2.4334	A	2.4

y = 0.0121 * x + 0.0016
R = 0.9999
DL = 0.03088
BEC = 0.1342

Weight: <None>
Min Conc: <None>

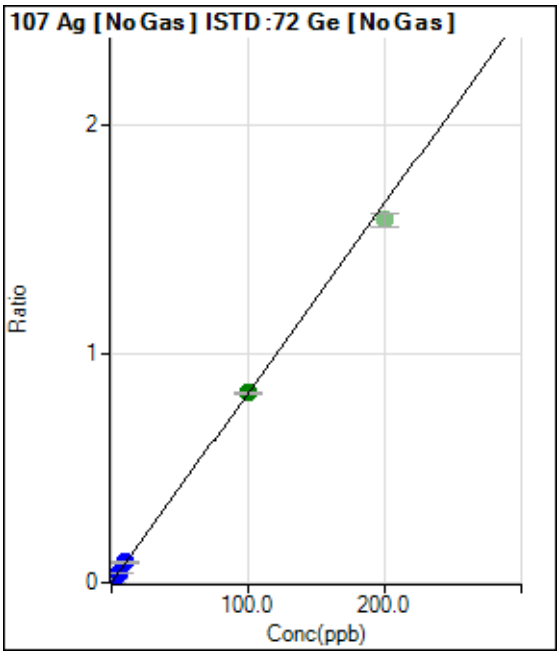
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	13.9
2	☐	2.000	2.138	14778.39	0.0063	P	8.1
3	☐	5.000	5.320	36216.23	0.0155	P	0.8
4	☐	10.000	10.422	70791.00	0.0303	P	3.8
5	☐	100.000	101.007	681772.36	0.2924	P	1.2
6	☐	200.000	199.466	1331941.85	0.5773	A	3.3

y = 0.0029 * x + 1.2236E-004
R = 1.0000
DL = 0.01764
BEC = 0.04229

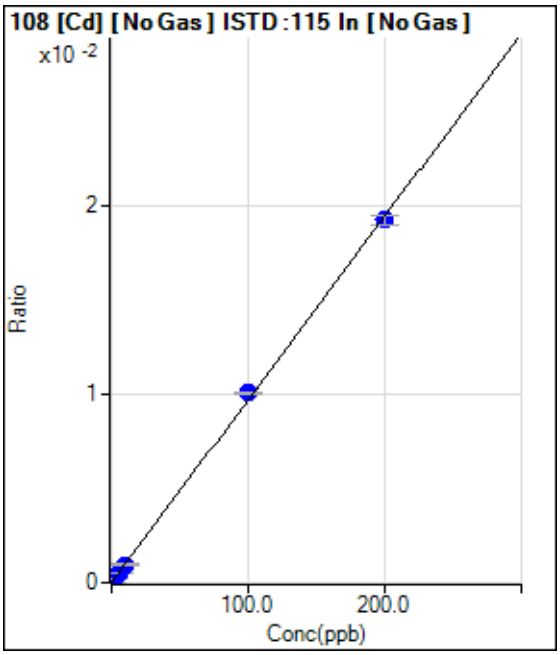
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	770.04	0.0003	P	6.7
2	☐	2.000	2.170	42879.56	0.0183	P	4.2
3	☐	5.000	5.429	105602.27	0.0452	P	1.6
4	☐	10.000	10.695	207659.73	0.0888	P	2.4
5	☐	100.000	99.906	1928158.83	0.8269	A	1.4
6	☑	200.000		3653483.70	1.5837	A	3.5

y = 0.0083 * x + 3.3276E-004
R = 1.0000
DL = 0.008063
BEC = 0.04022

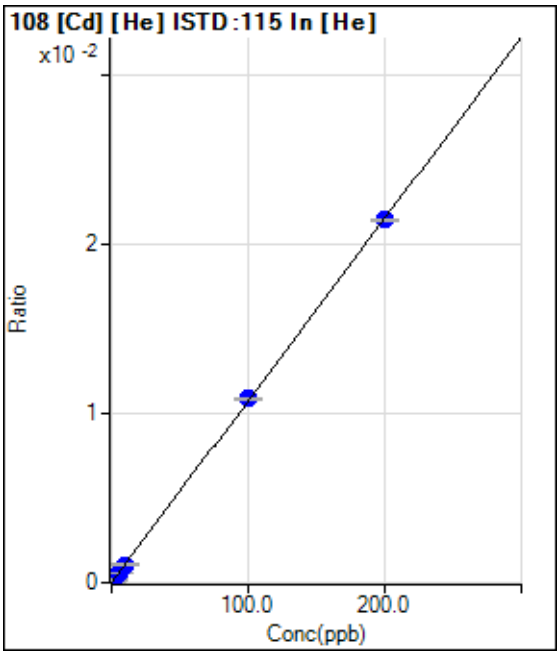
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	100.6
2	☐	2.000	2.321	740.03	0.0002	P	12.5
3	☐	5.000	5.012	1580.13	0.0005	P	4.7
4	☐	10.000	9.835	3083.75	0.0010	P	9.7
5	☐	100.000	103.519	31975.61	0.0101	P	0.8
6	☐	200.000	198.245	60210.50	0.0193	P	2.7

y = 9.7121E-005 * x + 3.1182E-006
R = 0.9998
DL = 0.09688
BEC = 0.03211

Weight: <None>
Min Conc: <None>

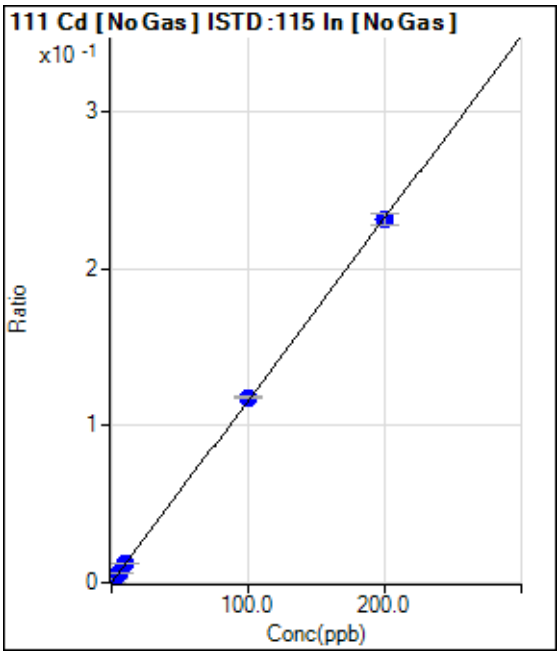


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	100.4
2	☐	2.000	1.632	193.34	0.0002	P	37.3
3	☐	5.000	4.972	566.69	0.0005	P	4.2
4	☐	10.000	9.889	1113.41	0.0011	P	7.2
5	☐	100.000	101.110	11368.39	0.0109	P	1.0
6	☐	200.000	199.455	22001.95	0.0215	P	0.3

y = 1.0752E-004 * x + 9.6538E-006
R = 1.0000
DL = 0.2705
BEC = 0.08979

Weight: <None>
Min Conc: <None>

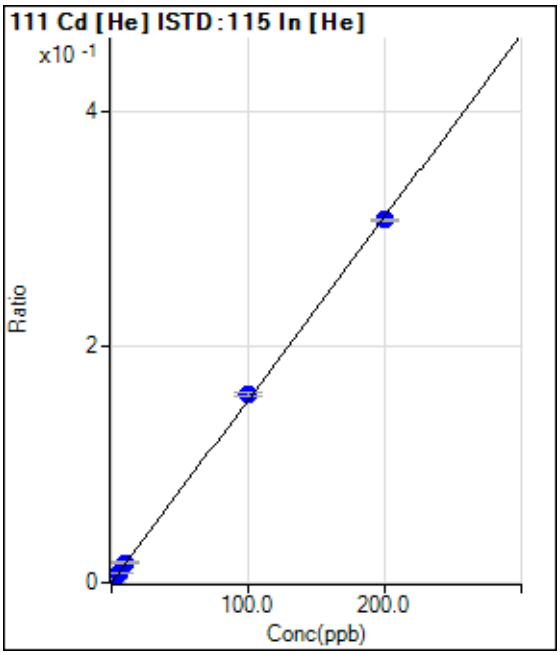
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.40	0.0000	P	-164.9
2	☐	2.000	2.151	8065.74	0.0025	P	2.0
3	☐	5.000	5.408	20199.73	0.0063	P	3.5
4	☐	10.000	10.610	39561.04	0.0123	P	1.1
5	☐	100.000	101.646	374552.68	0.1178	P	0.9
6	☐	200.000	199.135	721633.94	0.2308	P	3.0

y = 0.0012 * x - 2.3183E-006
R = 1.0000
DL = 0.009893
BEC = -0.002

Weight: <None>
Min Conc: <None>

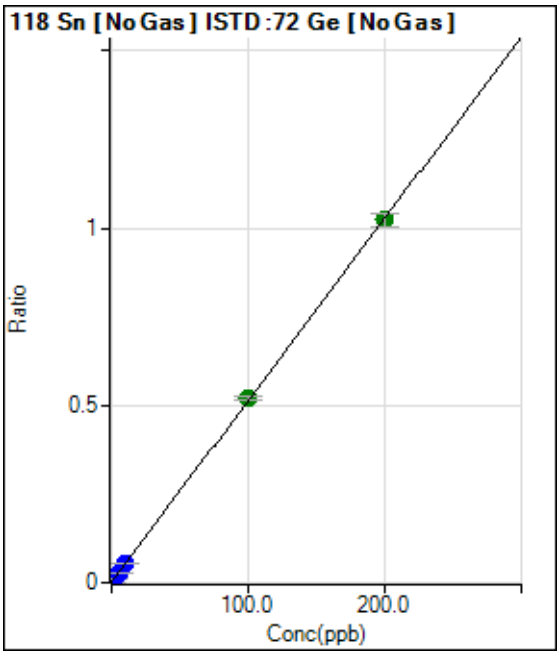


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.73	0.0000	P	100.4
2	☐	2.000	2.138	3457.92	0.0033	P	4.8
3	☐	5.000	5.411	8740.69	0.0084	P	2.4
4	☐	10.000	10.816	17404.88	0.0168	P	5.4
5	☐	100.000	102.921	166650.54	0.1595	P	1.4
6	☐	200.000	198.487	315432.40	0.3076	P	0.8

y = 0.0015 * x + 1.0359E-005
R = 0.9999
DL = 0.02014
BEC = 0.006685

Weight: <None>
Min Conc: <None>

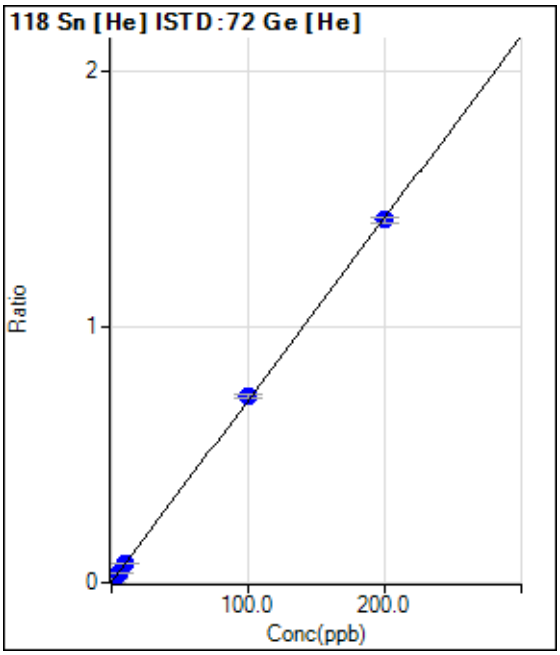
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2376.93	0.0010	P	9.0
2	☐	2.000	2.090	27525.79	0.0117	P	3.1
3	☐	5.000	5.310	65898.31	0.0282	P	1.5
4	☐	10.000	10.574	129092.73	0.0552	P	2.4
5	☐	100.000	101.205	1211565.11	0.5196	A	2.3
6	☐	200.000	199.360	2359208.35	1.0226	A	3.5

y = 0.0051 * x + 0.0010
R = 1.0000
DL = 0.05422
BEC = 0.2004

Weight: <None>
Min Conc: <None>

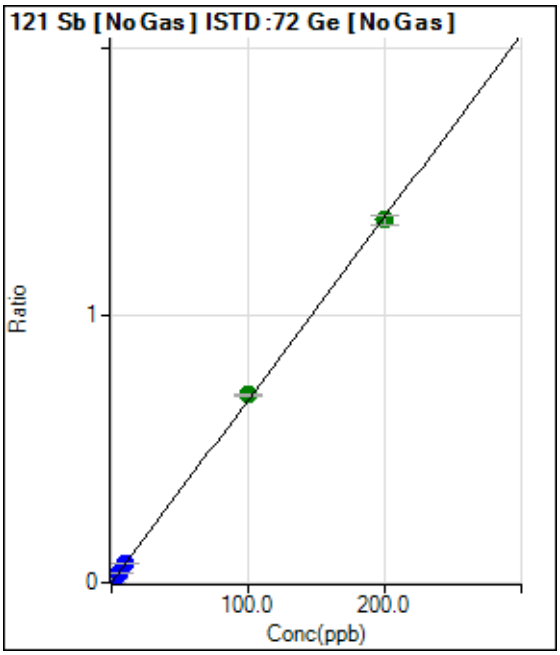


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	846.71	0.0016	P	3.8
2	☐	2.000	2.160	9216.76	0.0170	P	2.7
3	☐	5.000	5.519	22142.26	0.0409	P	2.3
4	☐	10.000	10.588	41385.55	0.0770	P	2.8
5	☐	100.000	101.901	399673.34	0.7275	P	2.1
6	☐	200.000	199.006	761521.39	1.4193	P	1.4

y = 0.0071 * x + 0.0016
R = 0.9999
DL = 0.02525
BEC = 0.2199

Weight: <None>
Min Conc: <None>

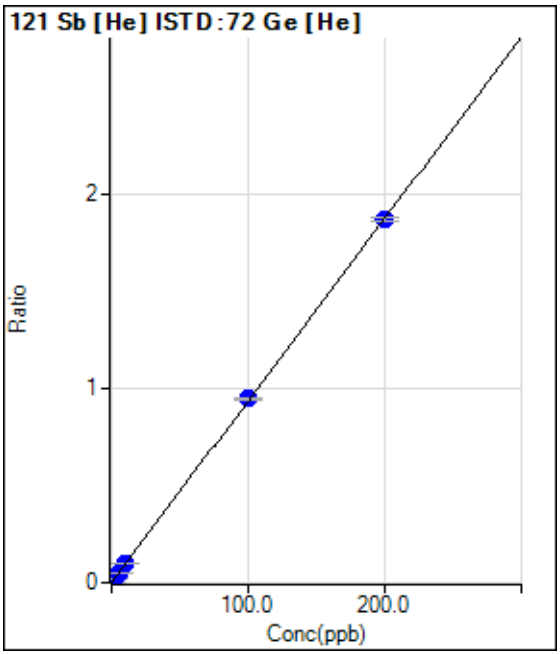
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	633.36	0.0003	P	2.6
2	☐	2.000	2.172	35441.57	0.0151	P	3.4
3	☐	5.000	5.288	84943.87	0.0364	P	0.1
4	☐	10.000	10.287	164926.58	0.0705	P	2.7
5	☐	100.000	102.791	1637834.14	0.7024	A	1.1
6	☐	200.000	198.581	3130068.81	1.3568	A	2.4

y = 0.0068 * x + 2.7367E-004
R = 0.9999
DL = 0.003155
BEC = 0.04006

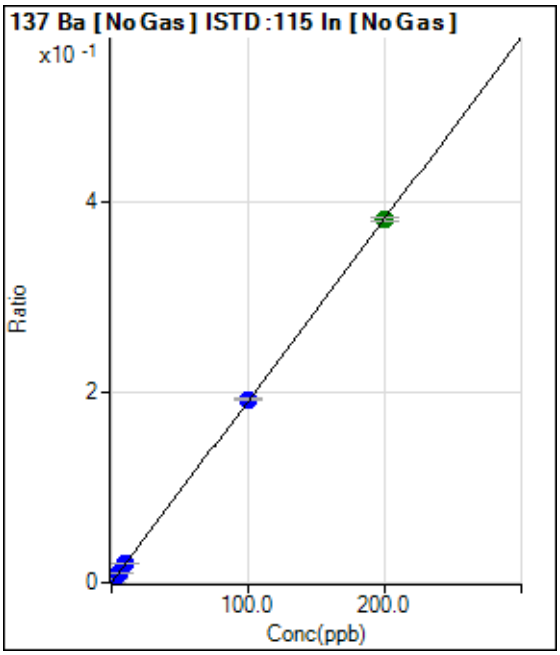
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0004	P	4.7
2	☐	2.000	2.175	11318.40	0.0208	P	4.9
3	☐	5.000	5.489	28127.11	0.0519	P	0.6
4	☐	10.000	10.349	52428.07	0.0975	P	3.3
5	☐	100.000	100.972	520838.22	0.9480	P	1.4
6	☐	200.000	199.482	1004746.52	1.8725	P	1.2

y = 0.0094 * x + 4.1306E-004
R = 1.0000
DL = 0.006262
BEC = 0.04401

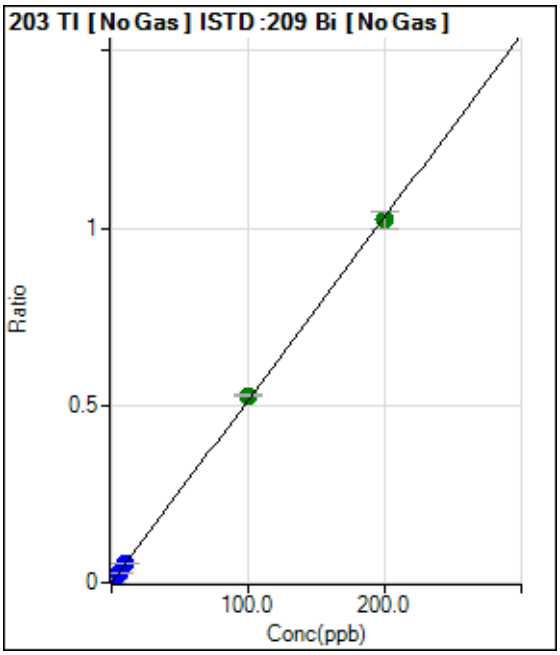
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0001	P	28.0
2	☐	2.000	2.122	13303.71	0.0041	P	4.2
3	☐	5.000	5.285	32731.47	0.0102	P	1.5
4	☐	10.000	10.372	63940.50	0.0199	P	0.9
5	☐	100.000	100.781	612409.13	0.1926	P	1.3
6	☐	200.000	199.582	1192783.08	0.3814	A	1.0

y = 0.0019 * x + 5.1640E-005
R = 1.0000
DL = 0.02267
BEC = 0.02702

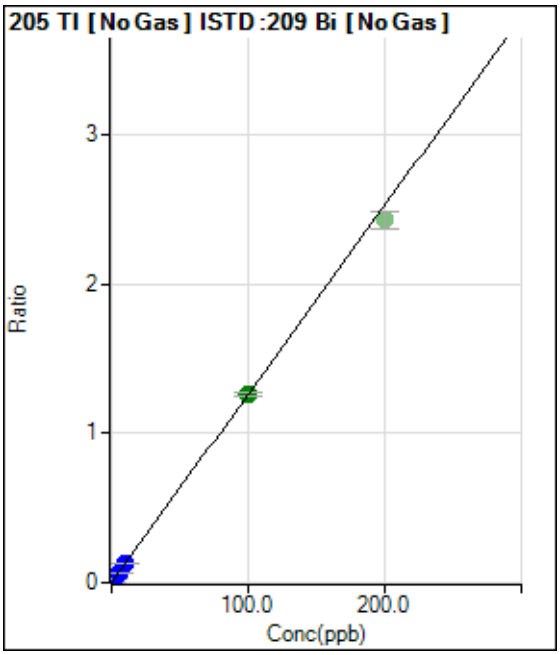
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	270.01	0.0001	P	12.9
2	☐	2.000	2.014	32058.05	0.0105	P	0.9
3	☐	5.000	5.324	85259.81	0.0275	P	1.4
4	☐	10.000	10.601	167772.73	0.0547	P	1.7
5	☐	100.000	102.641	1639570.29	0.5287	A	1.5
6	☐	200.000	198.641	3077682.45	1.0231	A	4.6

y = 0.0052 * x + 8.9742E-005
R = 0.9999
DL = 0.006753
BEC = 0.01743

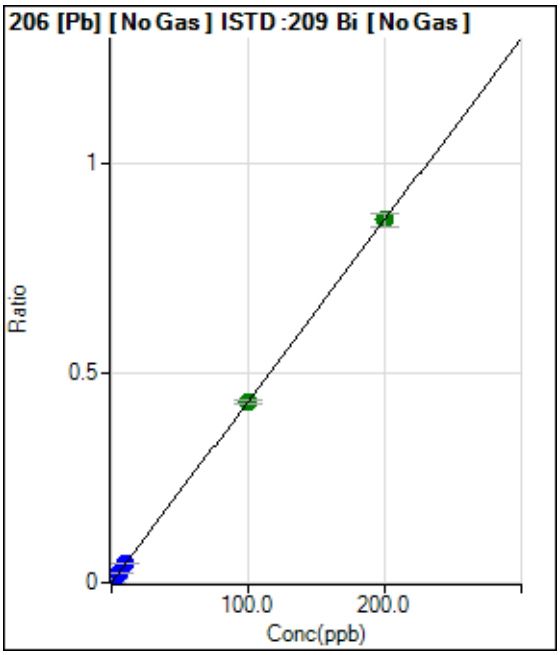
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	726.70	0.0002	P	5.9
2	☐	2.000	1.941	75816.12	0.0247	P	1.5
3	☐	5.000	5.274	207057.47	0.0668	P	2.2
4	☐	10.000	10.431	404676.83	0.1319	P	1.4
5	☐	100.000	99.944	3913119.94	1.2618	A	1.9
6	☑	200.000		7309861.56	2.4301	A	4.7

y = 0.0126 * x + 2.4155E-004
R = 1.0000
DL = 0.003386
BEC = 0.01914

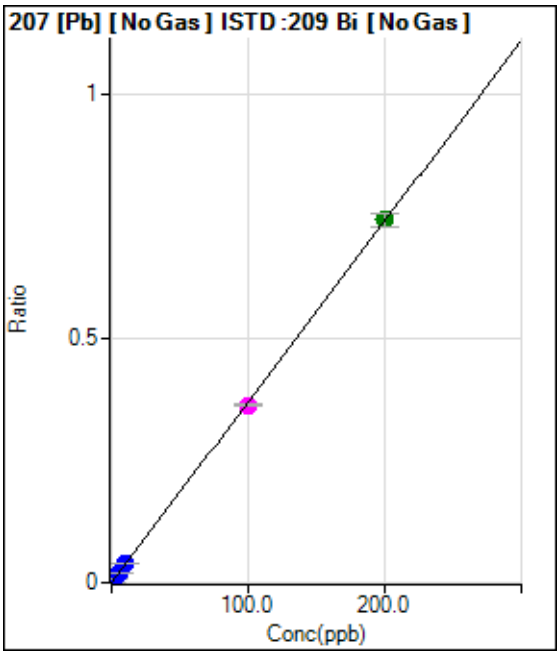
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310.01	0.0001	P	19.7
2	☐	2.000	2.123	28512.91	0.0093	P	1.9
3	☐	5.000	5.154	69546.37	0.0224	P	1.8
4	☐	10.000	10.433	139014.60	0.0453	P	1.9
5	☐	100.000	99.870	1342622.58	0.4329	A	1.5
6	☐	200.000	200.038	2608213.66	0.8670	A	4.0

y = 0.0043 * x + 1.0304E-004
R = 1.0000
DL = 0.01407
BEC = 0.02378

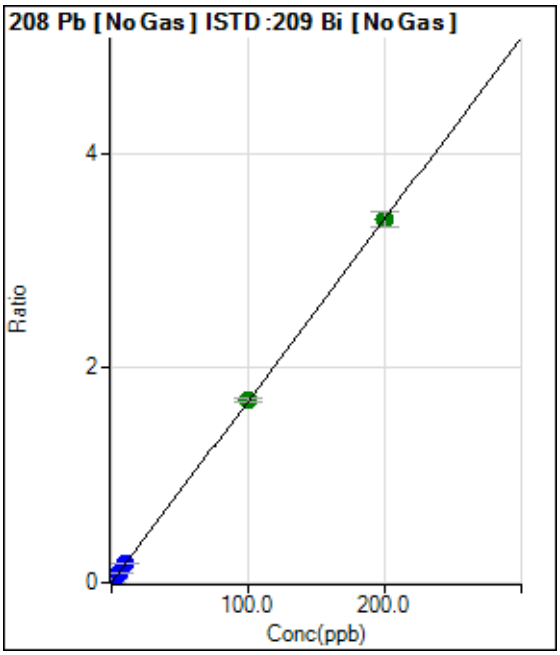
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	270.01	0.0001	P	29.2
2	☐	2.000	2.100	24116.89	0.0079	P	2.4
3	☐	5.000	5.300	61130.18	0.0197	P	1.6
4	☐	10.000	10.469	119260.54	0.0389	P	1.8
5	☐	100.000	98.374	1130551.78	0.3646	M	1.8
6	☐	200.000	200.781	2238210.80	0.7440	A	3.5

y = 0.0037 * x + 8.9779E-005
R = 0.9999
DL = 0.02124
BEC = 0.02423

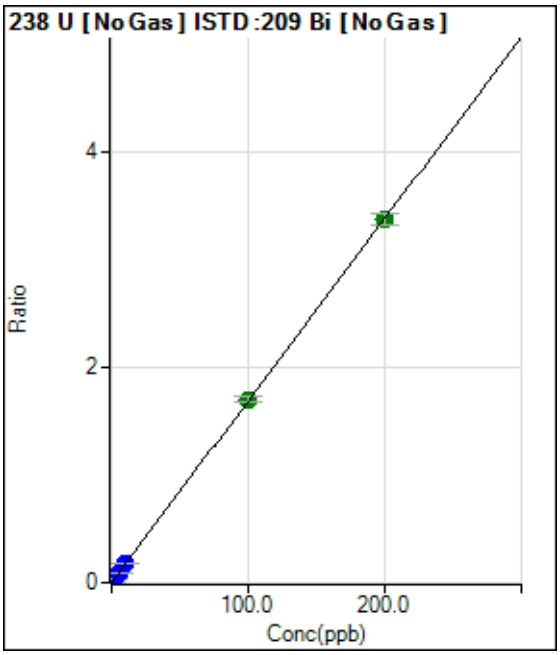
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1206.72	0.0004	P	5.9
2	☐	2.000	2.158	113113.37	0.0369	P	1.8
3	☐	5.000	5.316	279936.37	0.0903	P	1.5
4	☐	10.000	10.574	549994.45	0.1793	P	1.7
5	☐	100.000	100.561	5277011.30	1.7016	A	1.3
6	☐	200.000	199.681	10163066.77	3.3784	A	4.2

y = 0.0169 * x + 4.0109E-004
R = 1.0000
DL = 0.00417
BEC = 0.02371

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.35	0.0001	P	19.3
2	☐	2.000	2.086	108400.84	0.0354	P	1.1
3	☐	5.000	5.200	272591.80	0.0880	P	0.7
4	☐	10.000	10.371	537779.75	0.1753	P	1.5
5	☐	100.000	100.973	5288675.86	1.7054	A	2.1
6	☐	200.000	199.489	10136517.77	3.3692	A	3.3

y = 0.0169 * x + 1.4076E-004

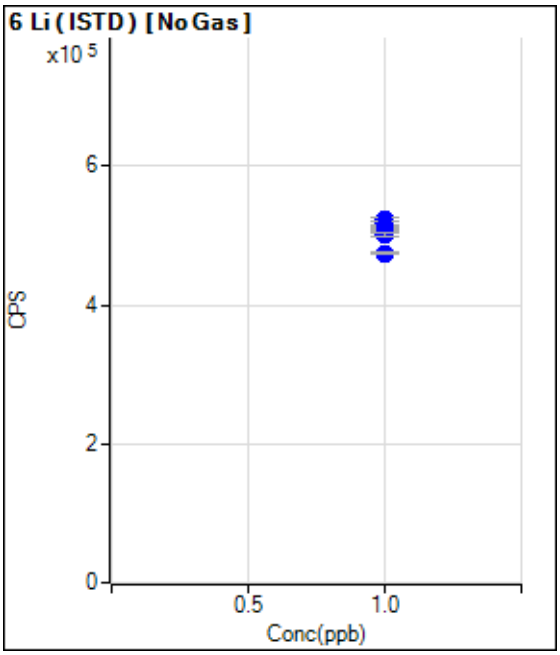
R = 1.0000

DL = 0.004822

BEC = 0.008335

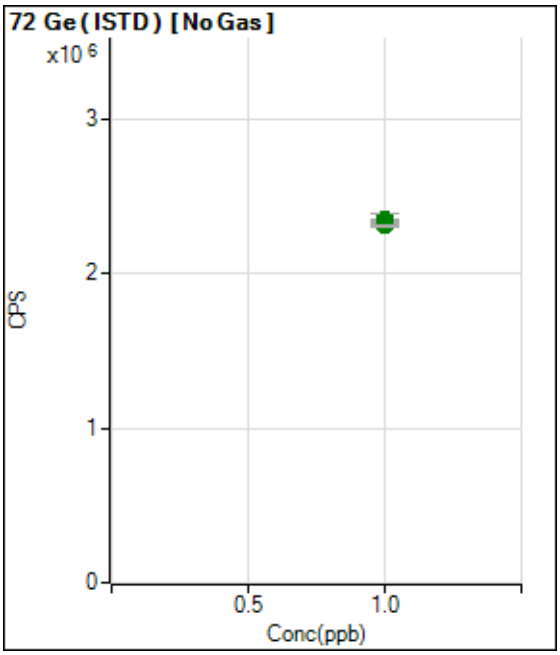
Weight: <None>

Min Conc: <None>

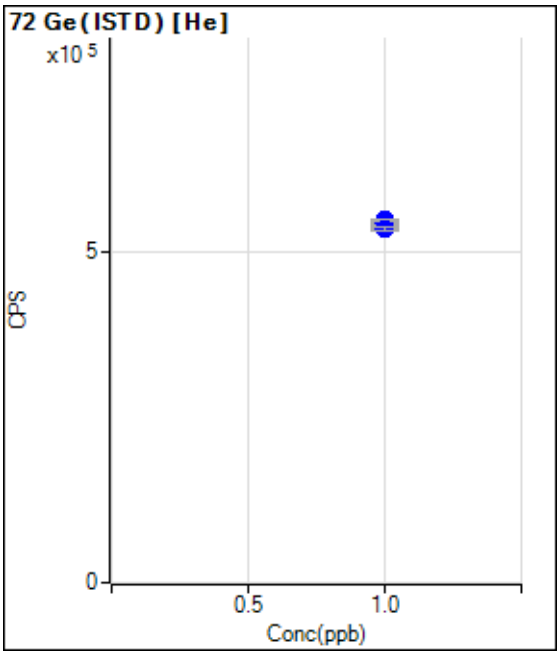


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		522840.58		P	1.0
2	☐	1.000		518541.33		P	0.9
3	☐	1.000		511716.93		P	0.5
4	☐	1.000		507535.56		P	0.3
5	☐	1.000		502067.00		P	1.1
6	☐	1.000		474987.83		P	0.8

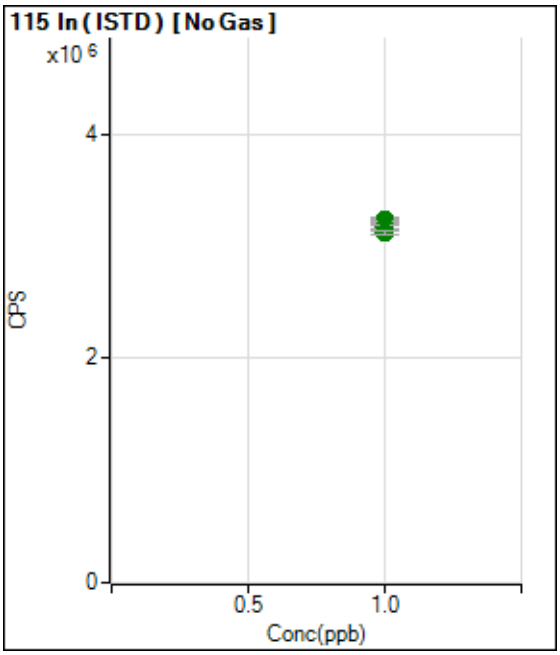
Calibration for 020_ICV.d



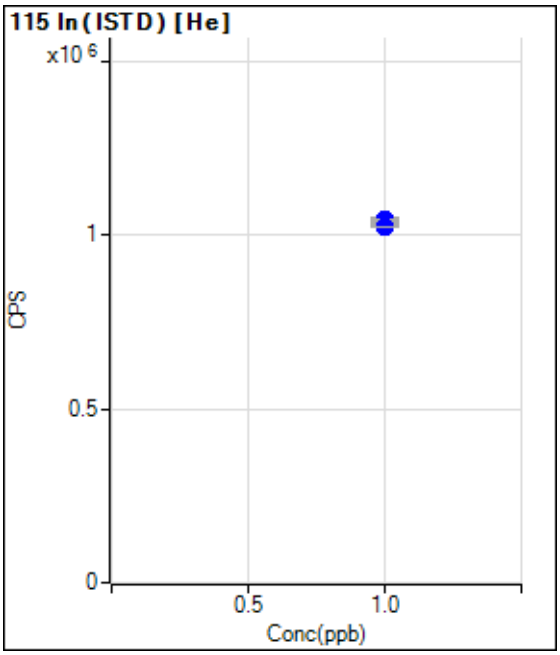
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2314030.96		A	0.8
2	☐	1.000		2346339.71		A	3.1
3	☐	1.000		2333847.41		A	0.1
4	☐	1.000		2338287.83		A	0.9
5	☐	1.000		2331673.20		A	0.5
6	☐	1.000		2307241.27		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		540641.03		P	0.9
2	☐	1.000		543628.40		P	1.1
3	☐	1.000		541636.16		P	0.0
4	☐	1.000		537586.89		P	0.4
5	☐	1.000		549408.68		P	0.3
6	☐	1.000		536607.84		P	1.2

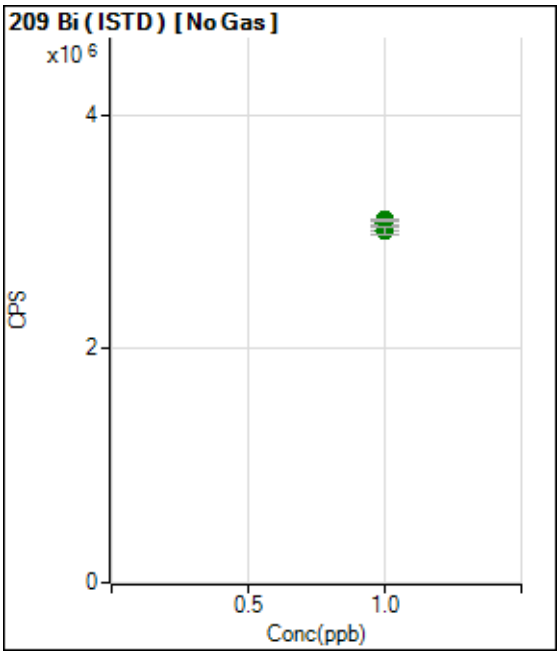


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3225981.06		A	1.0
2	☐	1.000		3238717.82		A	1.9
3	☐	1.000		3224675.71		A	1.2
4	☐	1.000		3217558.59		A	0.6
5	☐	1.000		3179456.48		A	1.2
6	☐	1.000		3127471.87		A	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1044128.38		M	1.2
2	☐	1.000		1040371.88		A	1.6
3	☐	1.000		1041194.08		P	0.2
4	☐	1.000		1037543.16		M	0.8
5	☐	1.000		1044811.81		P	0.2
6	☐	1.000		1025493.29		P	0.3

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3008975.06		A	0.4
2	☐	1.000		3064099.23		A	0.1
3	☐	1.000		3099412.97		A	1.0
4	☐	1.000		3068153.50		A	1.1
5	☐	1.000		3101280.89		A	0.7
6	☐	1.000		3009931.00		A	2.0

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:22:30-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	33615	0.00
Be	9	1	No Gas	35	187.04
V	51	2	He	1283	2.02
Cr	52	2	He	6518	0.07
Fe	56	2	He	13253	0.04
Se	78	2	He	148	5.48
As	75	2	He	181	9.44
Ca	44	2	He	487	0.88
Na	23	2	He	18322	0.01
Mg	24	2	He	387	3.92
K	39	2	He	76428	0.00
Mn	55	2	He	243	0.97
Co	59	2	He	27	81.19
Ni	60	2	He	100	36.06
Cu	63	2	He	533	2.15
Zn	66	2	He	1300	0.89
Al	27	2	He	530	2.22
B	11	1	No Gas	5981	0.03
Al	27	1	No Gas	18623	0.01
Si	28	1	No Gas	259624	0.00
Ag	107	1	No Gas	770	0.88
Sr	88	1	No Gas	803	1.71
Mo	95	1	No Gas	283	5.19
Sn	118	1	No Gas	2377	0.41
Sb	121	1	No Gas	633	0.52
Ba	137	1	No Gas	167	17.01
Tl	205	1	No Gas	727	0.77
Tl	203	1	No Gas	270	4.75
Pb	208	1	No Gas	1207	0.46
U	238	1	No Gas	423	4.48
Ca	43	2	He	7	1299.04
Sb	121	2	He	223	2.31
Ti	47	2	He	10	1000.00
Cu	63	1	No Gas	1530	1.12

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	522841	0.97

Calibration Blank Report

Ge	72	2	He	540641	0.91
Ge	72	1	No Gas	2314031	0.76
Bi	209	1	No Gas	3008975	0.36

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:24:26-05:00
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	4718	0.14
V	51	2	He	9093	0.04
Cr	52	2	He	15396	0.00
Fe	56	2	He	950205	0.00
Se	78	2	He	308	2.19
As	75	2	He	1956	0.26
Ca	44	2	He	6905	0.05
Na	23	2	He	168103	0.00
Mg	24	2	He	92364	0.00
K	39	2	He	207670	0.00
Mn	55	2	He	8469	0.04
Co	59	2	He	14248	0.02
Ni	60	2	He	3681	0.30
Cu	63	2	He	9363	0.06
Zn	66	2	He	3577	0.25
Al	27	2	He	1257	0.35
B	11	1	No Gas	17830	0.01
Al	27	1	No Gas	40141	0.00
Si	28	1	No Gas	330279	0.00
Ag	107	1	No Gas	42880	0.00
Cd	111	1	No Gas	8066	0.00
Sr	88	1	No Gas	73038	0.00
Mo	95	1	No Gas	14778	0.03
Sn	118	1	No Gas	27526	0.00
Sb	121	1	No Gas	35442	0.01
Ba	137	1	No Gas	13304	0.04
Tl	205	1	No Gas	75816	0.00
Tl	203	1	No Gas	32058	0.00
Pb	208	1	No Gas	113113	0.00
U	238	1	No Gas	108401	0.00
Ca	43	2	He	350	3.56
Sb	121	2	He	11318	0.04
Cu	63	1	No Gas	27314	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	518541	0.94	522841	99.18	70	120	
Ge	72	2	He	543628	1.06	540641	100.55	70	120	
Ge	72	1	No Gas	2346340	3.09	2314031	101.40	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3064099	0.06	3008975	101.83	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\051524B.b
Acq Date Time	2024-05-15T11:26:21-05:00
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	11536	0.01
V	51	2	He	21715	0.03
Cr	52	2	He	30441	0.00
Fe	56	2	He	2312725	0.00
Se	78	2	He	567	0.22
As	75	2	He	4351	0.08
Ca	44	2	He	16256	0.03
Na	23	2	He	397676	0.00
Mg	24	2	He	231599	0.00
K	39	2	He	413448	0.00
Mn	55	2	He	20683	0.01
Co	59	2	He	35239	0.01
Ni	60	2	He	9250	0.03
Cu	63	2	He	23681	0.01
Zn	66	2	He	6395	0.01
Al	27	2	He	2047	0.11
B	11	1	No Gas	36130	0.00
Al	27	1	No Gas	73688	0.00
Si	28	1	No Gas	412581	0.00
Ag	107	1	No Gas	105602	0.00
Cd	111	1	No Gas	20200	0.01
Sr	88	1	No Gas	182588	0.00
Mo	95	1	No Gas	36216	0.00
Sn	118	1	No Gas	65898	0.00
Sb	121	1	No Gas	84944	0.00
Ba	137	1	No Gas	32731	0.00
Tl	205	1	No Gas	207057	0.00
Tl	203	1	No Gas	85260	0.00
Pb	208	1	No Gas	279936	0.00
U	238	1	No Gas	272592	0.00
Ca	43	2	He	927	0.78
Sb	121	2	He	28127	0.00
Cu	63	1	No Gas	65916	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	511717	0.48	522841	97.87	70	120	
Ge	72	2	He	541636	0.05	540641	100.18	70	120	
Ge	72	1	No Gas	2333847	0.12	2314031	100.86	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3099413	0.97	3008975	103.01	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\051524B.b
Acq Date Time	2024-05-15T11:28:17-05:00
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	22493	0.01
V	51	2	He	40413	0.01
Cr	52	2	He	52364	0.01
Fe	56	2	He	4364202	0.00
Se	78	2	He	971	0.38
As	75	2	He	8221	0.03
Ca	44	2	He	31209	0.01
Na	23	2	He	731445	0.00
Mg	24	2	He	438454	0.00
K	39	2	He	708916	0.00
Mn	55	2	He	39293	0.00
Co	59	2	He	67336	0.00
Ni	60	2	He	16907	0.01
Cu	63	2	He	44844	0.00
Zn	66	2	He	10751	0.04
Al	27	2	He	3577	0.20
B	11	1	No Gas	65294	0.00
Al	27	1	No Gas	126636	0.00
Si	28	1	No Gas	557320	0.00
Ag	107	1	No Gas	207660	0.00
Cd	111	1	No Gas	39561	0.00
Sr	88	1	No Gas	355925	0.00
Mo	95	1	No Gas	70791	0.00
Sn	118	1	No Gas	129093	0.00
Sb	121	1	No Gas	164927	0.00
Ba	137	1	No Gas	63941	0.00
Tl	205	1	No Gas	404677	0.00
Tl	203	1	No Gas	167773	0.00
Pb	208	1	No Gas	549994	0.00
U	238	1	No Gas	537780	0.00
Ca	43	2	He	1747	0.49
Sb	121	2	He	52428	0.01
Cu	63	1	No Gas	125774	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	507536	0.26	522841	97.07	70	120	
Ge	72	2	He	537587	0.44	540641	99.44	70	120	
Ge	72	1	No Gas	2338288	0.92	2314031	101.05	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3068153	1.14	3008975	101.97	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\051524B.b
Acq Date Time	2024-05-15T11:30:12-05:00
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	219218	0.00
V	51	2	He	389438	0.00
Cr	52	2	He	456954	0.00
Fe	56	2	He	42710746	0.00
Se	78	2	He	8570	0.01
As	75	2	He	80773	0.00
Ca	44	2	He	304648	0.00
Na	23	2	He	6810659	0.00
Mg	24	2	He	4141559	0.00
K	39	2	He	6102140	0.00
Mn	55	2	He	379467	0.00
Co	59	2	He	662394	0.00
Ni	60	2	He	168393	0.00
Cu	63	2	He	433848	0.00
Zn	66	2	He	96511	0.00
Al	27	2	He	29555	0.01
B	11	1	No Gas	593572	0.00
Al	27	1	No Gas	1062035	0.00
Si	28	1	No Gas	3106180	0.00
Ag	107	1	No Gas	1973101	0.00
Cd	111	1	No Gas	383867	0.00
Sr	88	1	No Gas	3428796	0.00
Mo	95	1	No Gas	691102	0.00
Sn	118	1	No Gas	1241286	0.00
Sb	121	1	No Gas	1627869	0.00
Ba	137	1	No Gas	617730	0.00
Tl	205	1	No Gas	4017305	0.00
Tl	203	1	No Gas	1640439	0.00
Pb	208	1	No Gas	5393373	0.00
U	238	1	No Gas	5337463	0.00
Ca	43	2	He	17234	0.01
Sb	121	2	He	532171	0.00
Cu	63	1	No Gas	1186252	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	491449	0.90	522841	94.00	70	120	
Ge	72	2	He	547139	0.25	540641	101.20	70	120	
Ge	72	1	No Gas	2298351	0.71	2314031	99.32	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3070021	0.55	3008975	102.03	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\051524B.b
Acq Date Time	2024-05-15T11:32:01-05:00
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	419077	0.00
V	51	2	He	734034	0.00
Cr	52	2	He	852606	0.00
Fe	56	2	He	79932167	0.00
Se	78	2	He	15776	0.01
As	75	2	He	151182	0.00
Ca	44	2	He	573810	0.00
Na	23	2	He	12776303	0.00
Mg	24	2	He	7726528	0.00
K	39	2	He	11329742	0.00
Mn	55	2	He	708874	0.00
Co	59	2	He	1228531	0.00
Ni	60	2	He	311269	0.00
Cu	63	2	He	803588	0.00
Zn	66	2	He	177922	0.00
Al	27	2	He	54905	0.00
B	11	1	No Gas	1111646	0.00
Al	27	1	No Gas	1955192	0.00
Si	28	1	No Gas	5578332	0.00
Ag	107	1	No Gas	3653484	0.00
Cd	111	1	No Gas	721634	0.00
Sr	88	1	No Gas	6520503	0.00
Mo	95	1	No Gas	1331942	0.00
Sn	118	1	No Gas	2359208	0.00
Sb	121	1	No Gas	3130069	0.00
Ba	137	1	No Gas	1192783	0.00
Tl	205	1	No Gas	7309862	0.00
Tl	203	1	No Gas	3077682	0.00
Pb	208	1	No Gas	10163067	0.00
U	238	1	No Gas	10136518	0.00
Ca	43	2	He	34133	0.00
Sb	121	2	He	1004747	0.00
Cu	63	1	No Gas	2244755	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	474988	0.77	522841	90.85	70	120	
Ge	72	2	He	536608	1.16	540641	99.25	70	120	
Ge	72	1	No Gas	2307241	0.87	2314031	99.71	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3009931	2.04	3008975	100.03	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:41:43-05:00
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	219465	0.00
V	51	2	He	387123	0.00
Cr	52	2	He	451661	0.00
Fe	56	2	He	42357894	0.00
Se	78	2	He	8511	0.03
As	75	2	He	80073	0.00
Ca	44	2	He	304210	0.00
Na	23	2	He	6800089	0.00
Mg	24	2	He	4144112	0.00
K	39	2	He	6161779	0.00
Mn	55	2	He	376769	0.00
Co	59	2	He	658653	0.00
Ni	60	2	He	164658	0.00
Cu	63	2	He	427584	0.00
Zn	66	2	He	95411	0.00
Al	27	2	He	30193	0.01
B	11	1	No Gas	590729	0.00
Al	27	1	No Gas	1053769	0.00
Si	28	1	No Gas	3093967	0.00
Ag	107	1	No Gas	1928159	0.00
Cd	111	1	No Gas	374553	0.00
Sr	88	1	No Gas	3411184	0.00
Mo	95	1	No Gas	681772	0.00
Sn	118	1	No Gas	1211565	0.00
Sb	121	1	No Gas	1637834	0.00
Ba	137	1	No Gas	612409	0.00
Tl	205	1	No Gas	3913120	0.00
Tl	203	1	No Gas	1639570	0.00
Pb	208	1	No Gas	5277011	0.00
U	238	1	No Gas	5288676	0.00
Ca	43	2	He	18376	0.02
Sb	121	2	He	520838	0.00
Cu	63	1	No Gas	1174255	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	502067	1.05	522841	96.03	70	120	
Ge	72	2	He	549409	0.28	540641	101.62	70	120	
Ge	72	1	No Gas	2331673	0.46	2314031	100.76	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3101281	0.74	3008975	103.07	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	021LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:48:37-05:00
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	4.930	4.930	3.95	71247	0.01	5	
Be	9	1	No Gas	5.094	5.094	2.21	11817	0.04	5	
V	51	2	He	5.282	5.282	5.52	21478	0.02	5	
Cr	52	2	He	5.256	5.256	3.52	29866	0.02	5	
Fe	56	2	He	558.344	558.344	1.86	2341596	0.02	500	
Se	78	2	He	5.041	5.041	12.39	564	0.89	5	
As	75	2	He	5.308	5.308	4.28	4366	0.12	5	
Ca	44	2	He	525.824	525.824	2.24	16226	3.24	500	
Na	23	2	He	568.568	568.568	0.90	397537	0.14	500	
Mg	24	2	He	569.713	569.713	2.02	230630	0.25	500	
K	39	2	He	561.038	561.038	1.45	409348	0.14	500	
Mn	55	2	He	5.379	5.379	3.72	20148	0.03	5	
Co	59	2	He	5.471	5.471	1.69	35179	0.02	5	
Ni	60	2	He	5.452	5.452	3.24	8950	0.06	5	
Cu	63	2	He	5.478	5.478	2.97	23517	0.02	5	
Zn	66	2	He	5.147	5.147	4.26	6085	0.08	5	
Al	27	2	He	5.591	5.591	11.01	2140	0.26	5	
B	11	1	No Gas	25.909	25.909	4.26	37704	0.07	25	
Al	27	1	No Gas	5.737	5.737	4.54	75678	0.01	5	
Si	28	1	No Gas	27.019	27.019	7.60	409106	0.01	25	
Ag	107	1	No Gas	5.624	5.624	3.40	105697	0.01	5	
Cd	111	1	No Gas	5.349	5.349	5.15	20207	0.03	5	
Sr	88	1	No Gas	5.495	5.495	3.40	183452	0.00	5	
Mo	95	1	No Gas	5.404	5.404	5.30	36791	0.01	5	
Sn	118	1	No Gas	5.471	5.471	2.31	67872	0.01	5	
Sb	121	1	No Gas	5.583	5.583	3.19	89695	0.01	5	
Ba	137	1	No Gas	5.314	5.314	1.80	33283	0.02	5	
Tl	205	1	No Gas	5.260	5.260	3.06	206821	0.00	5	
Tl	203	1	No Gas	5.411	5.411	2.39	86780	0.01	5	
Pb	208	1	No Gas	5.352	5.352	2.64	282272	0.00	5	
U	238	1	No Gas	5.234	5.234	1.70	274800	0.00	5	
Ca	43	2	He	543.127	543.127	4.36	977	55.61	500	
Sb	121	2	He	5.471	5.471	2.08	28768	0.02	5	
Ti	47	2	He	5.263	5.263	3.66	850	0.62	5	
Cu	63	1	No Gas	5.551	5.551	2.64	65025	0.01	5	
Se	82	1	No Gas	5.245	5.245	9.60	1623	0.32	5	
Zr	90	2	He	4.279	4.279	2.31	29640	0.01	5	
Zr	90	1	No Gas	4.544	4.544	3.59	98366	0.00	5	
Cd	111	2	He	5.242	5.242	1.29	8777	0.06	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Sample Report

Li	6	1	No Gas	525184	0.66	522841	100.45	70	120	
Ge	72	2	He	555808	0.55	540641	102.81	70	120	
Ge	72	1	No Gas	2336279	2.09	2314031	100.96	70	120	
Bi	209	1	No Gas	3104258	1.03	3008975	103.17	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	022LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:50:32-05:00
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	1.834	1.834	4.11	48016	0.00	2	
Be	9	1	No Gas	1.963	1.963	2.07	4604	0.04	2	
V	51	2	He	1.978	1.978	6.48	8852	0.02	2	
Cr	52	2	He	1.875	1.875	4.40	14938	0.01	2	
Fe	56	2	He	215.804	215.804	1.74	911723	0.02	200	
Se	78	2	He	1.930	1.930	11.48	309	0.62	2	
As	75	2	He	2.045	2.045	10.11	1793	0.11	2	
Ca	44	2	He	198.497	198.497	2.02	6425	3.09	200	
Na	23	2	He	214.679	214.679	1.15	161533	0.13	200	
Mg	24	2	He	220.291	220.291	2.23	89258	0.25	200	
K	39	2	He	207.098	207.098	2.67	200297	0.10	200	
Mn	55	2	He	2.064	2.064	5.44	7869	0.03	2	
Co	59	2	He	2.110	2.110	2.63	13560	0.02	2	
Ni	60	2	He	2.139	2.139	5.84	3567	0.06	2	
Cu	63	2	He	2.078	2.078	2.36	9243	0.02	2	
Zn	66	2	He	1.682	1.682	12.77	2884	0.06	2	
Al	27	2	He	2.208	2.208	13.15	1173	0.19	2	
B	11	1	No Gas	9.531	9.531	4.37	17781	0.05	10	
Al	27	1	No Gas	2.321	2.321	2.02	42224	0.01	2	
Si	28	1	No Gas	7.803	7.803	2.82	307520	0.00	10	
Ag	107	1	No Gas	2.112	2.112	2.36	40579	0.01	2	
Cd	111	1	No Gas	2.023	2.023	5.52	7690	0.03	2	
Sr	88	1	No Gas	2.093	2.093	2.16	71082	0.00	2	
Mo	95	1	No Gas	2.113	2.113	3.28	14708	0.01	2	
Sn	118	1	No Gas	2.065	2.065	0.54	27386	0.01	2	
Sb	121	1	No Gas	2.267	2.267	4.78	37170	0.01	2	
Ba	137	1	No Gas	1.967	1.967	2.40	12516	0.02	2	
Tl	205	1	No Gas	1.895	1.895	2.47	74076	0.00	2	
Tl	203	1	No Gas	1.986	1.986	2.87	31627	0.01	2	
Pb	208	1	No Gas	2.090	2.090	1.90	109627	0.00	2	
U	238	1	No Gas	2.067	2.067	1.66	107435	0.00	2	
Ca	43	2	He	203.597	203.597	30.23	370	55.02	200	
Sb	121	2	He	2.182	2.182	4.52	11592	0.02	2	
Ti	47	2	He	1.359	1.359	7.43	227	0.60	200	NewName Main CR1 Failed
Cu	63	1	No Gas	2.152	2.152	1.62	26413	0.01	2	
Se	82	1	No Gas	1.703	1.703	33.44	847	0.20	2	
Zr	90	2	He	1.725	1.725	2.05	12463	0.01	2	
Zr	90	1	No Gas	1.803	1.803	2.10	40318	0.00	2	
Cd	111	2	He	2.092	2.092	5.01	3429	0.06	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	528547	0.87	522841	101.09	70	120	
Ge	72	2	He	554806	0.60	540641	102.62	70	120	
Ge	72	1	No Gas	2358620	0.52	2314031	101.93	70	120	
Bi	209	1	No Gas	3066440	2.02	3008975	101.91	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	023_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:52:28-05:00
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	-0.222	-11.9	32217	0.7	2.5	
Be	9	1	No Gas	0.011	40.7	60	16.7	2.5	
V	51	2	He	-0.004	-1243.1	1286	13.7	2.5	
Cr	52	2	He	-0.167	-56.8	5891	6.3	2.5	
Fe	56	2	He	1.932	7.2	21417	3.6	250	
Se	78	2	He	-0.210	-202.7	133	25.8	2.5	
As	75	2	He	-0.029	-164.4	161	24.0	2.5	
Ca	44	2	He	6.965	40.8	700	12.2	250	
Na	23	2	He	4.756	11.9	21731	1.9	250	
Mg	24	2	He	1.556	9.7	1013	5.4	250	
K	39	2	He	-3.083	-20.3	75794	0.5	250	
Mn	55	2	He	0.083	25.9	550	14.5	2.5	
Co	59	2	He	0.005	132.4	60	72.6	2.5	
Ni	60	2	He	0.068	22.9	210	12.6	2.5	
Cu	63	2	He	0.072	19.7	840	6.2	2.5	
Zn	66	2	He	0.060	332.8	1373	12.3	2.5	
Al	27	2	He	2.703	18.5	1300	10.4	2.5	ICB Main CR1 Failed
B	11	1	No Gas	0.017	654.5	6056	2.2	10	
Al	27	1	No Gas	2.748	3.6	46354	1.4	2.5	ICB Main CR1 Failed
Si	28	1	No Gas	0.019	1683.0	263894	1.8	10	
Ag	107	1	No Gas	-0.016	-8.3	477	6.4	2.5	
Cd	111	1	No Gas	0.006	127.9	16	189.4	2.5	
Sr	88	1	No Gas	0.067	7.6	3070	6.7	2.5	
Mo	95	1	No Gas	0.023	21.4	443	7.3	2.5	
Sn	118	1	No Gas	0.185	11.0	4644	5.1	2.5	
Sb	121	1	No Gas	0.080	9.5	1924	6.2	2.5	
Ba	137	1	No Gas	0.145	4.5	1073	3.3	2.5	
Tl	205	1	No Gas	0.022	49.4	1570	25.9	2.5	
Tl	203	1	No Gas	0.027	34.3	690	19.5	2.5	
Pb	208	1	No Gas	0.016	12.9	2027	3.2	2.5	
U	238	1	No Gas	0.009	32.8	880	17.6	2.5	
Ca	43	2	He	35.949	42.8	70	37.8	250	
Sb	121	2	He	0.080	20.4	637	13.4	2.5	
Ti	47	2	He	0.042	175.9	17	69.3	2.5	
Se	82	1	No Gas	-0.720	-14.3	303	8.3	2.5	
Zr	90	2	He	0.098	7.2	1543	3.0	2.5	
Zr	90	1	No Gas	0.126	11.3	4174	6.3	2.5	
Cd	111	2	He	0.019	117.9	41	86.6	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	527491	0.12	522841	100.89	70	120	
Ge	72	2	He	548916	0.93	540641	101.53	70	120	
Ge	72	1	No Gas	2351066	1.11	2314031	101.60	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3031378	2.09	3008975	100.74	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	024_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T11:54:24-05:00
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	99.663	0.592	756372	0.80	100	99.7	90	110	
Be	9	1	No Gas	102.099	1.201	225646	0.53	100	102.1	90	110	
V	51	2	He	103.932	1.728	394091	1.98	100	103.9	90	110	
Cr	52	2	He	104.736	1.863	463617	2.06	100	104.7	90	110	
Fe	56	2	He	10445.070	1.590	43125023	1.86	10000	104.5	90	110	
Se	78	2	He	105.882	0.455	8713	0.62	100	105.9	90	110	
As	75	2	He	105.525	1.773	82441	1.80	100	105.5	90	110	
Ca	44	2	He	10514.995	0.768	311792	0.88	10000	105.1	90	110	
Na	23	2	He	10638.751	1.602	7033476	1.75	10000	106.4	90	110	
Mg	24	2	He	10480.721	0.974	4193092	1.12	10000	104.8	90	110	
K	39	2	He	10545.781	1.376	6232913	1.58	10000	105.5	90	110	
Mn	55	2	He	105.498	1.529	386577	1.79	100	105.5	90	110	
Co	59	2	He	105.465	1.211	670802	1.45	100	105.5	90	110	
Ni	60	2	He	104.988	0.609	168748	0.56	100	105.0	90	110	
Cu	63	2	He	105.252	0.991	437385	1.22	100	105.3	90	110	
Zn	66	2	He	104.752	0.622	96974	0.79	100	104.8	90	110	
Al	27	2	He	105.894	2.987	30457	3.13	100	105.9	90	110	
B	11	1	No Gas	513.415	1.042	605910	0.30	500	102.7	90	110	
Al	27	1	No Gas	109.370	1.231	1095120	1.16	100	109.4	90	110	
Si	28	1	No Gas	534.399	3.553	3146386	1.21	500	106.9	90	110	
Ag	107	1	No Gas	106.141	1.362	1966150	0.99	100	106.1	90	110	
Cd	111	1	No Gas	103.351	1.605	379999	1.27	100	103.4	90	110	
Sr	88	1	No Gas	103.976	3.081	3429852	0.97	100	104.0	90	110	
Mo	95	1	No Gas	103.098	2.867	691616	0.68	100	103.1	90	110	
Sn	118	1	No Gas	103.540	2.619	1231921	0.42	100	103.5	90	110	
Sb	121	1	No Gas	102.776	2.722	1627588	1.10	100	102.8	90	110	
Ba	137	1	No Gas	102.213	0.478	619784	0.63	100	102.2	90	110	
Tl	205	1	No Gas	104.209	0.736	3900525	0.61	100	104.2	90	110	
Tl	203	1	No Gas	107.912	1.150	1647878	0.51	100	107.9	90	110	
Pb	208	1	No Gas	106.253	0.104	5330249	0.56	100	106.3	90	110	
U	238	1	No Gas	105.502	1.135	5282904	1.38	100	105.5	90	110	
Ca	43	2	He	10176.351	2.300	17999	2.54	10000	101.8	90	110	
Sb	121	2	He	103.556	0.788	534982	1.03	100	103.6	90	110	
Ti	47	2	He	104.234	2.544	16473	2.41	100	104.2	90	110	
Cu	63	1	No Gas	104.819	3.913	1190648	1.76	100	104.8	90	110	
Se	82	1	No Gas	104.202	2.739	23384	0.51	100	104.2	90	110	
Zr	90	2	He	92.832	0.842	618155	1.09	100	92.8	90	110	
Zr	90	1	No Gas	95.244	1.653	2017284	0.79	100	95.2	90	110	
Cd	111	2	He	106.152	0.930	169688	1.28	100	106.2	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	501812	0.75	522841	95.98	70	120	
Ge	72	2	He	550231	0.28	540641	101.77	70	120	
Ge	72	1	No Gas	2318278	2.22	2314031	100.18	70	120	
Bi	209	1	No Gas	2964729	0.66	3008975	98.53	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:01:57-05:00
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	0.176	58.4	30942	1.7	5	
Be	9	1	No Gas	0.014	75.9	60	36.3	5	
V	51	2	He	0.304	16.7	2271	7.9	5	
Cr	52	2	He	0.783	11.1	9310	3.7	5	
Fe	56	2	He	100529.081	1.2	384326008	1.3	0	
Se	78	2	He	0.559	66.4	181	15.2	5	
As	75	2	He	0.344	3.4	419	2.0	5	
Ca	44	2	He	96907.326	0.8	2657771	0.9	0	
Na	23	2	He	101173.265	1.2	61806144	1.3	0	
Mg	24	2	He	99730.756	1.7	36953749	1.8	0	
K	39	2	He	100209.140	1.4	54245019	1.5	0	
Mn	55	2	He	1.654	4.4	5838	4.3	5	
Co	59	2	He	1.091	5.7	6452	5.7	5	
Ni	60	2	He	1.241	4.4	1940	4.2	5	
Cu	63	2	He	0.874	5.4	3864	4.6	5	
Zn	66	2	He	2.658	11.9	3474	7.7	5	
Al	27	2	He	95038.477	1.7	24869610	1.8	0	
B	11	1	No Gas	1.784	4.6	7220	1.1	20	
Al	27	1	No Gas	98088.508	5.2	898692200	2.1	0	
Si	28	1	No Gas	94.788	3.1	719269	1.6	20	ICSA Main CR1 FailedICSA Main CR2 Failed
Ag	107	1	No Gas	0.322	10.0	6272	9.7	5	
Cd	111	1	No Gas	0.377	27.4	1251	27.2	5	
Sr	88	1	No Gas	0.969	4.4	30498	1.8	5	
Mo	95	1	No Gas	1942.591	4.9	12129560	1.9	0	
Sn	118	1	No Gas	0.246	6.1	4934	3.0	5	
Sb	121	1	No Gas	0.286	4.4	4808	4.4	5	
Ba	137	1	No Gas	0.720	2.9	4107	0.9	5	
Tl	205	1	No Gas	0.001	733.8	663	18.8	5	
Tl	203	1	No Gas	0.003	144.0	283	20.7	5	
Pb	208	1	No Gas	0.848	3.4	39445	2.0	5	
U	238	1	No Gas	0.012	19.3	940	10.1	5	
Ca	43	2	He	98155.863	2.7	160743	2.8	0	
Sb	121	2	He	0.279	7.6	1547	6.5	5	
Ti	47	2	He	2093.282	1.4	306254	1.5	0	
Cu	63	1	No Gas	1.865	4.0	21133	1.9	5	
Se	82	1	No Gas	0.814	26.6	593	8.3	5	
Zr	90	2	He	34.861	2.9	215530	3.0	5	ICSA Main CR1 Failed
Zr	90	1	No Gas	36.495	5.1	720436	2.4	5	ICSA Main CR1 Failed
Cd	111	2	He	2.486	4.8	3604	4.8	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	462935	0.49	522841	88.54	70	120	
Ge	72	2	He	509643	0.10	540641	94.27	70	120	
Ge	72	1	No Gas	2159867	3.04	2314031	93.34	70	120	
Bi	209	1	No Gas	2676252	1.42	3008975	88.94	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:03:54-05:00
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	101.905	5.625	712191	3.86	100	101.9	80	120	
Be	9	1	No Gas	98.672	2.117	201082	0.58	100	98.7	80	120	
V	51	2	He	107.170	0.667	386293	0.66	100	107.2	80	120	
Cr	52	2	He	105.448	0.473	443721	0.99	100	105.4	80	120	
Fe	56	2	He	113150.869	0.689	444009073	0.71	110000	102.9	80	120	
Se	78	2	He	111.929	0.825	8748	0.45	100	111.9	80	120	
As	75	2	He	109.646	0.857	81430	0.53	100	109.6	80	120	
Ca	44	2	He	110696.217	0.778	3116445	1.93	110000	100.6	80	120	
Na	23	2	He	117678.380	0.614	73792971	1.81	110000	107.0	80	120	
Mg	24	2	He	114927.702	0.467	43710524	0.84	110000	104.5	80	120	
K	39	2	He	115917.886	0.247	64396806	0.98	110000	105.4	80	120	
Mn	55	2	He	107.542	0.945	374643	1.30	100	107.5	80	120	
Co	59	2	He	104.736	0.303	633370	1.52	100	104.7	80	120	
Ni	60	2	He	101.980	0.284	155843	1.09	100	102.0	80	120	
Cu	63	2	He	103.215	0.426	407800	1.10	100	103.2	80	120	
Zn	66	2	He	107.792	1.386	94830	0.78	100	107.8	80	120	
Al	27	2	He	99474.542	0.302	26720159	1.52	100100	99.4	80	120	
B	11	1	No Gas	520.771	2.422	566603	0.77	500	104.2	80	120	
Al	27	1	No Gas	99282.498	2.269	939858173	1.10	100100	99.2	80	120	
Si	28	1	No Gas	671.850	1.990	3741425	0.62	500	134.4	80	120	ICSB Main CR1 Failed
Ag	107	1	No Gas	102.401	1.880	1824499	0.50	100	102.4	80	120	
Cd	111	1	No Gas	107.408	0.656	368274	0.69	100	107.4	80	120	
Sr	88	1	No Gas	109.727	2.598	3482007	1.21	100	109.7	80	120	
Mo	95	1	No Gas	2096.174	1.537	13523329	0.40	2100	99.8	80	120	
Sn	118	1	No Gas	106.145	2.135	1214857	0.77	100	106.1	80	120	
Sb	121	1	No Gas	109.499	1.818	1668141	0.43	100	109.5	80	120	
Ba	137	1	No Gas	106.618	1.063	602831	0.38	100	106.6	80	120	
Tl	205	1	No Gas	84.750	1.771	2922051	0.35	100	84.8	80	120	
Tl	203	1	No Gas	87.436	1.362	1230005	0.80	100	87.4	80	120	
Pb	208	1	No Gas	108.409	2.020	5009106	0.57	100	108.4	80	120	
U	238	1	No Gas	110.981	1.662	5118990	1.34	100	111.0	80	120	
Ca	43	2	He	113527.063	1.042	190820	0.58	110000	103.2	80	120	
Sb	121	2	He	108.488	0.428	532839	1.12	100	108.5	80	120	
Ti	47	2	He	2297.962	1.497	345058	0.29	2100	109.4	80	120	
Cu	63	1	No Gas	102.175	1.341	1116825	0.26	100	102.2	80	120	
Se	82	1	No Gas	110.604	2.133	23851	1.20	100	110.6	80	120	
Zr	90	2	He	113.825	0.386	720418	1.15	100	113.8	80	120	
Zr	90	1	No Gas	118.381	2.486	2411290	1.31	100	118.4	80	120	
Cd	111	2	He	110.077	0.513	160604	0.81	100	110.1	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	462789	1.63	522841	88.51	70	120	
Ge	72	2	He	523140	1.22	540641	96.76	70	120	
Ge	72	1	No Gas	2229744	1.37	2314031	96.36	70	120	
Bi	209	1	No Gas	2731387	1.94	3008975	90.77	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	030_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:10:47-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	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	99.400	1.756	718022	1.12	100	99.4	90	110	
Be	9	1	No Gas	98.892	1.196	208022	0.98	100	98.9	90	110	
V	51	2	He	103.167	1.352	390537	1.05	100	103.2	90	110	
Cr	52	2	He	103.847	1.413	458977	1.55	100	103.8	90	110	
Fe	56	2	He	10347.840	1.677	42652489	1.72	10000	103.5	90	110	
Se	78	2	He	105.059	1.677	8632	1.74	100	105.1	90	110	
As	75	2	He	103.313	1.483	80585	1.63	100	103.3	90	110	
Ca	44	2	He	10309.391	1.004	305202	1.02	10000	103.1	90	110	
Na	23	2	He	10557.149	1.014	6968083	0.98	10000	105.6	90	110	
Mg	24	2	He	10474.302	1.392	4183715	1.65	10000	104.7	90	110	
K	39	2	He	10416.647	1.420	6147488	1.69	10000	104.2	90	110	
Mn	55	2	He	104.491	1.505	382259	1.72	100	104.5	90	110	
Co	59	2	He	105.165	1.004	667780	0.96	100	105.2	90	110	
Ni	60	2	He	105.751	1.541	169700	1.78	100	105.8	90	110	
Cu	63	2	He	104.738	1.629	434535	1.69	100	104.7	90	110	
Zn	66	2	He	104.475	1.012	96561	0.86	100	104.5	90	110	
Al	27	2	He	103.796	1.646	29816	2.00	100	103.8	90	110	
B	11	1	No Gas	514.569	1.845	577963	1.54	500	102.9	90	110	
Al	27	1	No Gas	107.620	2.213	1097146	1.20	100	107.6	90	110	
Si	28	1	No Gas	511.913	3.728	3079650	2.45	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	107.968	1.158	2035916	0.70	100	108.0	90	110	
Cd	111	1	No Gas	102.367	1.716	389827	0.94	100	102.4	90	110	
Sr	88	1	No Gas	103.791	1.615	3486019	0.85	100	103.8	90	110	
Mo	95	1	No Gas	104.268	1.263	712171	0.28	100	104.3	90	110	
Sn	118	1	No Gas	102.904	1.633	1246562	0.93	100	102.9	90	110	
Sb	121	1	No Gas	103.243	3.162	1664418	2.23	100	103.2	90	110	
Ba	137	1	No Gas	100.731	1.730	632597	1.00	100	100.7	90	110	
Tl	205	1	No Gas	102.104	1.052	3983755	0.53	100	102.1	90	110	
Tl	203	1	No Gas	103.604	2.265	1649144	1.80	100	103.6	90	110	
Pb	208	1	No Gas	104.138	1.554	5445294	0.57	100	104.1	90	110	
U	238	1	No Gas	104.001	0.710	5428589	1.00	100	104.0	90	110	
Ca	43	2	He	10134.530	3.242	17895	3.39	10000	101.3	90	110	
Sb	121	2	He	102.599	0.924	529174	1.23	100	102.6	90	110	
Ti	47	2	He	104.911	1.975	16554	2.02	100	104.9	90	110	
Cu	63	1	No Gas	102.351	2.038	1183898	1.08	100	102.4	90	110	
Se	82	1	No Gas	103.591	1.803	23671	1.01	100	103.6	90	110	
Zr	90	2	He	89.595	1.356	595648	1.47	100	89.6	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	91.574	0.917	1974538	0.49	100	91.6	90	110	
Cd	111	2	He	104.022	1.320	168531	1.50	100	104.0	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	477602	0.65	522841	91.35	70	120	
Ge	72	2	He	549329	0.39	540641	101.61	70	120	
Ge	72	1	No Gas	2359615	0.97	2314031	101.97	70	120	
Bi	209	1	No Gas	3090524	0.99	3008975	102.71	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	031_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:12:36-05:00
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	-0.104	-63.5	31335	1.4	2.5	
Be	9	1	No Gas	0.127	33.2	312	28.7	2.5	
V	51	2	He	-0.073	-162.7	1046	43.6	2.5	
Cr	52	2	He	-0.545	-10.6	4334	5.8	2.5	
Fe	56	2	He	10.154	10.3	56377	7.5	250	
Se	78	2	He	0.122	192.1	163	11.8	5	
As	75	2	He	0.025	76.4	208	7.2	2.5	
Ca	44	2	He	10.269	43.3	813	16.2	250	
Na	23	2	He	20.229	8.5	32552	3.3	250	
Mg	24	2	He	10.022	8.0	4481	7.2	250	
K	39	2	He	10.302	16.7	85279	1.2	250	
Mn	55	2	He	0.123	16.1	710	10.2	2.5	
Co	59	2	He	0.081	26.1	550	24.6	2.5	
Ni	60	2	He	0.104	26.2	273	16.5	2.5	
Cu	63	2	He	0.032	65.9	690	13.0	5	
Zn	66	2	He	-0.437	-5.9	940	2.8	2.5	
Al	27	2	He	1.834	15.6	1077	7.5	2.5	
B	11	1	No Gas	0.372	42.4	6141	1.7	10	
Al	27	1	No Gas	2.620	9.0	46177	3.8	2.5	CCB Main CR1 Failed
Si	28	1	No Gas	-1.879	-25.0	259766	0.6	10	
Ag	107	1	No Gas	0.122	30.0	3147	21.0	2.5	
Cd	111	1	No Gas	0.131	31.5	505	31.3	2.5	
Sr	88	1	No Gas	0.192	23.6	7409	19.6	2.5	
Mo	95	1	No Gas	0.406	19.7	3124	16.3	2.5	
Sn	118	1	No Gas	0.316	53.5	6359	31.3	2.5	
Sb	121	1	No Gas	0.805	20.6	13888	18.1	2.5	
Ba	137	1	No Gas	0.252	23.5	1803	20.5	2.5	
Tl	205	1	No Gas	0.241	21.7	10301	20.5	2.5	
Tl	203	1	No Gas	0.250	22.2	4314	21.2	2.5	
Pb	208	1	No Gas	0.162	22.3	9868	19.8	2.5	
U	238	1	No Gas	0.144	25.1	8046	24.2	2.5	
Ca	43	2	He	33.216	53.8	67	48.2	250	
Sb	121	2	He	0.589	15.4	3327	14.1	2.5	
Ti	47	2	He	0.226	69.3	47	53.9	2.5	
Cu	63	1	No Gas	0.132	29.1	3144	12.9	2.5	
Se	82	1	No Gas	-0.445	-75.3	373	19.7	5	
Zr	90	2	He	0.393	7.4	3571	5.3	5	
Zr	90	1	No Gas	0.654	23.5	15877	19.8	5	
Cd	111	2	He	0.079	42.0	145	40.3	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	499094	1.30	522841	95.46	70	120	
Ge	72	2	He	560013	0.27	540641	103.58	70	120	

Continuing Calibration Blank (CCB) Report

Ge	72	1	No Gas	2409631	1.42	2314031	104.13	70	120	
Bi	209	1	No Gas	3134221	0.66	3008975	104.16	70	120	

Sample Report

Sample Table

Sample Name	MBLK-211834
Data File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:14:33-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	-0.268	-0.268	-13.87	30249	0.00	2000	
Be	9	1	No Gas	0.016	0.016	51.69	68	0.02	2000	
V	51	2	He	-0.174	-0.174	-28.62	660	-0.03	2000	
Cr	52	2	He	-0.549	-0.549	-7.62	4314	-0.01	2000	
Fe	56	2	He	4.130	4.130	9.41	31077	0.01	200000	
Se	78	2	He	-0.242	-0.242	-120.72	133	-0.18	2000	
As	75	2	He	-0.057	-0.057	-42.83	142	-0.04	2000	
Ca	44	2	He	23.108	23.108	7.39	1200	1.93	200000	
Na	23	2	He	13.753	13.753	3.42	28199	0.05	200000	
Mg	24	2	He	3.856	3.856	7.49	1970	0.20	200000	
K	39	2	He	6.930	6.930	24.80	83254	0.01	200000	
Mn	55	2	He	0.816	0.816	12.65	3294	0.02	2000	
Co	59	2	He	0.016	0.016	53.32	133	0.01	2000	
Ni	60	2	He	0.326	0.326	19.15	637	0.05	2000	
Cu	63	2	He	0.128	0.128	0.16	1093	0.01	2000	
Zn	66	2	He	1.206	1.206	18.20	2467	0.05	2000	
Al	27	2	He	1.627	1.627	33.42	1017	0.16	2000	
B	11	1	No Gas	-1.107	-1.107	-6.38	4437	-0.02	2000	
Al	27	1	No Gas	1.927	1.927	7.71	39202	0.00	2000	
Si	28	1	No Gas	-2.519	-2.519	-20.19	256890	0.00	2000	
Ag	107	1	No Gas	-0.005	-0.005	-164.53	713	0.00	2000	
Cd	111	1	No Gas	0.021	0.021	61.58	75	0.03	2000	
Sr	88	1	No Gas	0.039	0.039	23.14	2170	0.00	2000	
Mo	95	1	No Gas	0.117	0.117	10.50	1113	0.01	2000	
Sn	118	1	No Gas	0.252	0.252	2.77	5595	0.00	2000	
Sb	121	1	No Gas	0.184	0.184	11.37	3687	0.00	2000	
Ba	137	1	No Gas	0.075	0.075	3.37	657	0.01	2000	
Tl	205	1	No Gas	0.029	0.029	38.56	1904	0.00	2000	
Tl	203	1	No Gas	0.034	0.034	28.38	827	0.00	2000	
Pb	208	1	No Gas	0.026	0.026	18.55	2650	0.00	2000	
U	238	1	No Gas	0.016	0.016	34.58	1310	0.00	2000	
Ca	43	2	He	33.314	33.314	75.60	67	49.97	200000	
Sb	121	2	He	0.167	0.167	8.18	1107	0.02	2000	
Ti	47	2	He	-0.043	-0.043	-82.09	3	-1.30	2000	
Cu	63	1	No Gas	0.107	0.107	15.74	2864	0.00	2000	
Zn	66	1	No Gas	1.015	1.015	4.05	8519	0.01	2000	
Se	82	1	No Gas	-0.871	-0.871	-29.43	277	-0.31	2000	
Cd	111	2	He	0.012	0.012	104.00	30	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	500769	1.21	522841	95.78	70	120	

Sample Report

Ge	72	2	He	559849	0.57	540641	103.55	70	120	
Ge	72	1	No Gas	2416190	1.31	2314031	104.41	70	120	
Bi	209	1	No Gas	3141308	1.74	3008975	104.40	70	120	

Sample Report

Sample Table

Sample Name	LCS-211834
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:16:29-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	-0.177	-0.177	-25.73	30505	0.00	2000	
Be	9	1	No Gas	44.730	44.730	2.88	97354	0.05	2000	
V	51	2	He	45.634	45.634	3.53	175376	0.03	2000	
Cr	52	2	He	47.246	47.246	3.26	214750	0.02	2000	
Fe	56	2	He	4709.066	4709.066	2.97	19629996	0.02	200000	
Se	78	2	He	45.094	45.094	4.93	3833	1.18	2000	
As	75	2	He	45.355	45.355	3.58	35869	0.13	2000	
Ca	44	2	He	4575.094	4575.094	3.51	137205	3.33	200000	
Na	23	2	He	4675.552	4675.552	2.23	3130258	0.15	200000	
Mg	24	2	He	4777.657	4777.657	3.92	1929423	0.25	200000	
K	39	2	He	4608.176	4608.176	1.33	2792967	0.16	200000	
Mn	55	2	He	47.477	47.477	3.12	175722	0.03	2000	
Co	59	2	He	47.068	47.068	2.63	302163	0.02	2000	
Ni	60	2	He	48.293	48.293	1.83	78395	0.06	2000	
Cu	63	2	He	47.041	47.041	2.21	197600	0.02	2000	
Zn	66	2	He	50.072	50.072	0.53	47480	0.11	2000	
Al	27	2	He	59.946	59.946	5.50	17638	0.34	2000	
B	11	1	No Gas	-0.442	-0.442	-33.45	5144	-0.01	2000	
Al	27	1	No Gas	63.634	63.634	3.43	661335	0.01	2000	
Si	28	1	No Gas	15.479	15.479	8.23	352419	0.00	2000	
Ag	107	1	No Gas	49.586	49.586	2.81	942281	0.01	2000	
Cd	111	1	No Gas	47.484	47.484	1.75	185664	0.03	2000	
Sr	88	1	No Gas	0.263	0.263	0.64	9710	0.00	2000	
Mo	95	1	No Gas	48.214	48.214	2.19	331888	0.01	2000	
Sn	118	1	No Gas	0.455	0.455	6.26	7986	0.01	2000	
Sb	121	1	No Gas	50.947	50.947	2.38	827787	0.01	2000	
Ba	137	1	No Gas	46.603	46.603	2.11	300597	0.02	2000	
Tl	205	1	No Gas	36.932	36.932	1.40	1468341	0.00	2000	
Tl	203	1	No Gas	36.761	36.761	0.91	596298	0.01	2000	
Pb	208	1	No Gas	47.725	47.725	2.98	2542701	0.00	2000	
U	238	1	No Gas	0.008	0.008	25.46	860	0.00	2000	
Ca	43	2	He	4381.677	4381.677	6.55	7826	55.99	200000	
Sb	121	2	He	48.087	48.087	2.47	250843	0.02	2000	
Ti	47	2	He	44.925	44.925	2.93	7172	0.63	2000	
Cu	63	1	No Gas	48.605	48.605	3.09	567176	0.01	2000	
Zn	66	1	No Gas	52.966	52.966	4.06	177458	0.03	2000	
Se	82	1	No Gas	48.754	48.754	4.50	11472	0.42	2000	
Cd	111	2	He	45.495	45.495	2.80	75125	0.06	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	494108	0.51	522841	94.50	70	120	
Ge	72	2	He	555317	0.26	540641	102.71	70	120	
Ge	72	1	No Gas	2377091	1.09	2314031	102.73	70	120	

Sample Report

Bi	209	1	No Gas	3148132	0.55	3008975	104.62	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01SD
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:20:20-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	7.975	7.975	3.43	92293	0.01	2000	
Be	9	1	No Gas	0.018	0.018	65.06	75	0.02	2000	
V	51	2	He	-0.142	-0.142	-84.90	792	-0.02	2000	
Cr	52	2	He	-0.057	-0.057	-67.19	6565	0.00	2000	
Fe	56	2	He	40.482	40.482	2.82	185625	0.02	200000	
Se	78	2	He	-0.108	-0.108	-237.48	146	-0.07	2000	
As	75	2	He	0.151	0.151	25.68	310	0.05	2000	
Ca	44	2	He	10842.668	10842.668	2.79	330503	3.28	200000	
Na	23	2	He	44762.083	44762.083	1.86	30358646	0.15	200000	
Mg	24	2	He	8136.779	8136.779	4.13	3346762	0.24	200000	
K	39	2	He	151.201	151.201	3.04	170671	0.09	200000	
Mn	55	2	He	64.529	64.529	2.64	243172	0.03	2000	
Co	59	2	He	0.549	0.549	6.03	3617	0.02	2000	
Ni	60	2	He	2.141	2.141	5.06	3641	0.06	2000	
Cu	63	2	He	1.051	1.051	9.55	5041	0.02	2000	
Zn	66	2	He	2.162	2.162	13.11	3390	0.06	2000	
Al	27	2	He	10.497	10.497	4.33	3604	0.29	2000	
B	11	1	No Gas	4.438	4.438	10.18	11181	0.04	2000	
Al	27	1	No Gas	12.797	12.797	32.49	150538	0.01	2000	
Si	28	1	No Gas	3840.798	3840.798	4.26	21881225	0.02	2000	>LDR
Ag	107	1	No Gas	-0.009	-0.009	-50.60	623	0.00	2000	
Cd	111	1	No Gas	0.037	0.037	21.52	132	0.03	2000	
Sr	88	1	No Gas	223.567	223.567	3.74	7682035	0.00	2000	
Mo	95	1	No Gas	0.123	0.123	9.94	1157	0.01	2000	
Sn	118	1	No Gas	0.053	0.053	21.83	3130	0.00	2000	
Sb	121	1	No Gas	0.136	0.136	8.80	2907	0.00	2000	
Ba	137	1	No Gas	47.989	47.989	3.46	300802	0.02	2000	
Tl	205	1	No Gas	0.099	0.099	15.54	4501	0.00	2000	
Tl	203	1	No Gas	0.097	0.097	18.30	1780	0.01	2000	
Pb	208	1	No Gas	0.019	0.019	12.60	2193	0.00	2000	
U	238	1	No Gas	0.427	0.427	5.44	22227	0.00	2000	
Ca	43	2	He	11089.138	11089.138	2.53	20162	55.00	200000	
Sb	121	2	He	0.128	0.128	13.23	913	0.01	2000	
Ti	47	2	He	0.636	0.636	60.07	113	0.56	2000	
Cu	63	1	No Gas	1.498	1.498	4.48	19301	0.01	2000	
Zn	66	1	No Gas	2.361	2.361	5.69	12963	0.02	2000	
Se	82	1	No Gas	-0.016	-0.016	-2368.10	473	0.00	2000	
Cd	111	2	He	0.029	0.029	22.66	58	0.05	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	513443	0.63	522841	98.20	70	120	
Ge	72	2	He	565621	0.71	540641	104.62	70	120	
Ge	72	1	No Gas	2414458	0.93	2314031	104.34	70	120	

Sample Report

Bi	209	1	No Gas	3026786	0.89	3008975	100.59	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01MS
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:22:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	38.796	38.796	4.28	306732	0.01	2000	
Be	9	1	No Gas	47.537	47.537	3.91	102606	0.05	2000	
V	51	2	He	47.958	47.958	2.96	180465	0.03	2000	
Cr	52	2	He	49.087	49.087	2.28	218281	0.02	2000	
Fe	56	2	He	4936.926	4936.926	1.46	20156733	0.02	200000	
Se	78	2	He	48.349	48.349	1.51	4014	1.20	2000	
As	75	2	He	48.353	48.353	2.77	37444	0.13	2000	
Ca	44	2	He	57909.477	57909.477	1.78	1695276	3.42	200000	
Na	23	2	He	229151.941	229151.941	1.59	149382284	0.15	200000	>LDR
Mg	24	2	He	44239.034	44239.034	2.10	17495667	0.25	200000	
K	39	2	He	5439.753	5439.753	1.38	3215436	0.17	200000	
Mn	55	2	He	367.651	367.651	0.66	1331099	0.03	2000	
Co	59	2	He	49.242	49.242	1.88	309633	0.02	2000	
Ni	60	2	He	55.242	55.242	2.04	87826	0.06	2000	
Cu	63	2	He	51.363	51.363	2.22	211281	0.02	2000	
Zn	66	2	He	61.401	61.401	2.47	56735	0.11	2000	
Al	27	2	He	99.413	99.413	2.06	28296	0.35	2000	
B	11	1	No Gas	29.560	29.560	5.27	39347	0.08	2000	
Al	27	1	No Gas	105.597	105.597	5.90	1069277	0.01	2000	
Si	28	1	No Gas	18558.404	18558.404	2.63	101620175	0.02	2000	>LDR
Ag	107	1	No Gas	46.661	46.661	3.01	874110	0.01	2000	
Cd	111	1	No Gas	48.712	48.712	1.35	179590	0.03	2000	
Sr	88	1	No Gas	1079.881	1079.881	3.67	36006492	0.00	2000	
Mo	95	1	No Gas	49.031	49.031	2.87	332679	0.01	2000	
Sn	118	1	No Gas	0.088	0.088	15.83	3467	0.00	2000	
Sb	121	1	No Gas	49.762	49.762	1.97	797102	0.01	2000	
Ba	137	1	No Gas	284.488	284.488	2.41	1729327	0.02	2000	
Tl	205	1	No Gas	37.129	37.129	1.07	1343310	0.00	2000	
Tl	203	1	No Gas	36.887	36.887	0.57	544484	0.01	2000	
Pb	208	1	No Gas	48.909	48.909	2.22	2371206	0.00	2000	
U	238	1	No Gas	2.132	2.132	2.07	103548	0.00	2000	
Ca	43	2	He	57993.285	57993.285	2.89	101365	57.21	200000	
Sb	121	2	He	48.104	48.104	2.58	245788	0.02	2000	
Ti	47	2	He	51.447	51.447	2.39	8042	0.64	2000	
Cu	63	1	No Gas	53.583	53.583	3.34	616180	0.01	2000	
Zn	66	1	No Gas	62.728	62.728	2.27	206282	0.03	2000	
Se	82	1	No Gas	50.850	50.850	2.98	11775	0.43	2000	
Cd	111	2	He	46.722	46.722	3.35	72142	0.06	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	490187	1.65	522841	93.75	70	120	
Ge	72	2	He	543914	0.52	540641	100.61	70	120	
Ge	72	1	No Gas	2343419	1.48	2314031	101.27	70	120	
Bi	209	1	No Gas	2864819	0.84	3008975	95.21	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01MSD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:24:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	39.876	39.876	1.92	311210	0.01	2000	
Be	9	1	No Gas	48.782	48.782	2.66	104221	0.05	2000	
V	51	2	He	50.016	50.016	0.44	186946	0.03	2000	
Cr	52	2	He	51.060	51.060	1.27	225364	0.02	2000	
Fe	56	2	He	5117.849	5117.849	1.44	20763511	0.02	200000	
Se	78	2	He	48.955	48.955	3.43	4037	1.21	2000	
As	75	2	He	50.145	50.145	1.91	38579	0.13	2000	
Ca	44	2	He	59790.530	59790.530	0.28	1739235	3.44	200000	
Na	23	2	He	239073.506	239073.506	1.50	154873738	0.15	200000	>LDR
Mg	24	2	He	46433.731	46433.731	1.03	18247372	0.25	200000	
K	39	2	He	5750.165	5750.165	1.57	3373311	0.17	200000	
Mn	55	2	He	384.347	384.347	2.02	1382883	0.03	2000	
Co	59	2	He	51.451	51.451	1.70	321495	0.02	2000	
Ni	60	2	He	57.872	57.872	2.07	91425	0.06	2000	
Cu	63	2	He	53.062	53.062	2.22	216888	0.02	2000	
Zn	66	2	He	63.647	63.647	1.44	58392	0.11	2000	
Al	27	2	He	101.904	101.904	3.27	28814	0.35	2000	
B	11	1	No Gas	30.347	30.347	4.61	39833	0.08	2000	
Al	27	1	No Gas	105.608	105.608	5.70	1041931	0.01	2000	
Si	28	1	No Gas	19331.586	19331.586	4.09	103124612	0.02	2000	>LDR
Ag	107	1	No Gas	49.037	49.037	3.20	895180	0.01	2000	
Cd	111	1	No Gas	50.611	50.611	3.17	183606	0.03	2000	
Sr	88	1	No Gas	1122.946	1122.946	2.64	36493682	0.00	2000	
Mo	95	1	No Gas	51.184	51.184	2.44	338477	0.02	2000	
Sn	118	1	No Gas	0.089	0.089	24.18	3381	0.00	2000	
Sb	121	1	No Gas	52.501	52.501	3.50	819387	0.01	2000	
Ba	137	1	No Gas	296.419	296.419	2.86	1773173	0.02	2000	
Tl	205	1	No Gas	39.661	39.661	2.57	1418758	0.00	2000	
Tl	203	1	No Gas	39.728	39.728	2.13	579824	0.01	2000	
Pb	208	1	No Gas	51.174	51.174	2.78	2453210	0.00	2000	
U	238	1	No Gas	2.219	2.219	2.76	106547	0.00	2000	
Ca	43	2	He	61013.176	61013.176	1.90	105975	57.57	200000	
Sb	121	2	He	50.442	50.442	1.47	256107	0.02	2000	
Ti	47	2	He	52.352	52.352	0.81	8133	0.64	2000	
Cu	63	1	No Gas	55.775	55.775	3.23	625000	0.01	2000	
Zn	66	1	No Gas	65.757	65.757	2.68	210492	0.03	2000	
Se	82	1	No Gas	53.106	53.106	2.95	11965	0.44	2000	
Cd	111	2	He	49.053	49.053	1.92	75830	0.06	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	485058	0.83	522841	92.77	70	120	
Ge	72	2	He	540485	0.85	540641	99.97	70	120	
Ge	72	1	No Gas	2284283	2.45	2314031	98.71	70	120	
Bi	209	1	No Gas	2833120	1.38	3008975	94.16	70	120	

Sample Report

Sample Table

Sample Name	HS24050529-01PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:26:04-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	37.650	37.650	2.82	288968	0.01	2000	
Be	9	1	No Gas	95.584	95.584	2.55	199620	0.05	2000	
V	51	2	He	96.290	96.290	2.66	350219	0.03	2000	
Cr	52	2	He	96.759	96.759	3.00	411208	0.02	2000	
Fe	56	2	He	9818.573	9818.573	2.53	38874549	0.03	200000	
Se	78	2	He	97.238	97.238	4.47	7686	1.27	2000	
As	75	2	He	96.809	96.809	2.30	72541	0.13	2000	
Ca	44	2	He	61463.147	61463.147	2.25	1745339	3.52	200000	
Na	23	2	He	225781.499	225781.499	2.50	142776185	0.16	200000	>LDR
Mg	24	2	He	47953.162	47953.162	2.58	18396413	0.26	200000	
K	39	2	He	10232.779	10232.779	1.62	5801879	0.18	200000	
Mn	55	2	He	399.116	399.116	1.45	1401738	0.03	2000	
Co	59	2	He	96.762	96.762	2.44	590168	0.02	2000	
Ni	60	2	He	101.515	101.515	2.43	156474	0.06	2000	
Cu	63	2	He	97.891	97.891	1.79	390127	0.03	2000	
Zn	66	2	He	105.896	105.896	1.62	93994	0.11	2000	
Al	27	2	He	140.833	140.833	2.10	38672	0.36	2000	
B	11	1	No Gas	28.123	28.123	3.31	36489	0.08	2000	
Al	27	1	No Gas	144.881	144.881	3.50	1416738	0.01	2000	
Si	28	1	No Gas	18192.808	18192.808	1.71	96659765	0.02	2000	>LDR
Ag	107	1	No Gas	93.180	93.180	1.82	1693004	0.01	2000	
Cd	111	1	No Gas	97.863	97.863	0.85	352693	0.03	2000	
Sr	88	1	No Gas	1056.419	1056.419	2.24	34179489	0.00	2000	
Mo	95	1	No Gas	98.762	98.762	2.73	649932	0.02	2000	
Sn	118	1	No Gas	0.054	0.054	7.19	2964	0.00	2000	
Sb	121	1	No Gas	100.242	100.242	1.80	1557338	0.01	2000	
Ba	137	1	No Gas	328.502	328.502	0.78	1952039	0.02	2000	
Tl	205	1	No Gas	99.708	99.708	1.94	3613837	0.00	2000	
Tl	203	1	No Gas	102.677	102.677	2.35	1518255	0.01	2000	
Pb	208	1	No Gas	98.657	98.657	2.23	4792390	0.00	2000	
U	238	1	No Gas	2.075	2.075	2.73	100978	0.00	2000	
Ca	43	2	He	61550.262	61550.262	1.46	104356	58.98	200000	
Sb	121	2	He	96.320	96.320	1.99	477183	0.02	2000	
Ti	47	2	He	99.397	99.397	1.82	15065	0.66	2000	
Cu	63	1	No Gas	101.254	101.254	3.29	1128446	0.01	2000	
Zn	66	1	No Gas	109.096	109.096	2.24	344487	0.03	2000	
Se	82	1	No Gas	103.309	103.309	3.13	22753	0.45	2000	
Cd	111	2	He	93.484	93.484	1.56	143489	0.07	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	474198	0.59	522841	90.70	70	120	
Ge	72	2	He	527630	0.50	540641	97.59	70	120	
Ge	72	1	No Gas	2273541	0.81	2314031	98.25	70	120	
Bi	209	1	No Gas	2871148	1.95	3008975	95.42	70	120	

Sample Report

Sample Table

Sample Name	HS24050531-01
Data File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:27:58-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 211834
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	33.653	33.653	3.54	287216	0.01	2000	
Be	9	1	No Gas	0.145	0.145	29.15	367	0.04	2000	
V	51	2	He	-0.208	-0.208	-48.12	528	-0.04	2000	
Cr	52	2	He	1.328	1.328	3.19	12603	0.01	2000	
Fe	56	2	He	95.586	95.586	2.59	413752	0.02	200000	
Se	78	2	He	-0.001	-0.001	-18589.91	153	0.00	2000	
As	75	2	He	0.457	0.457	9.12	548	0.08	2000	
Ca	44	2	He	19907.735	19907.735	2.21	598170	3.33	200000	
Na	23	2	He	645517.557	645517.557	1.55	431623007	0.15	200000	>LDR
Mg	24	2	He	11726.599	11726.599	1.75	4757405	0.25	200000	
K	39	2	He	2021.339	2021.339	1.14	1275216	0.16	200000	
Mn	55	2	He	44.463	44.463	2.47	165361	0.03	2000	
Co	59	2	He	0.193	0.193	13.94	1273	0.02	2000	
Ni	60	2	He	0.948	0.948	8.93	1647	0.06	2000	
Cu	63	2	He	1.182	1.182	7.76	5525	0.02	2000	
Zn	66	2	He	13.019	13.019	3.99	13397	0.10	2000	
Al	27	2	He	8.551	8.551	2.73	2997	0.29	2000	
B	11	1	No Gas	30.890	30.890	2.30	43439	0.07	2000	
Al	27	1	No Gas	8.747	8.747	1.83	106371	0.01	2000	
Si	28	1	No Gas	10657.291	10657.291	2.94	58729527	0.02	2000	>LDR
Ag	107	1	No Gas	0.176	0.176	23.85	4081	0.00	2000	
Cd	111	1	No Gas	0.174	0.174	48.19	629	0.03	2000	
Sr	88	1	No Gas	434.258	434.258	1.29	14548424	0.00	2000	
Mo	95	1	No Gas	0.448	0.448	19.13	3337	0.01	2000	
Sn	118	1	No Gas	0.086	0.086	29.96	3451	0.00	2000	
Sb	121	1	No Gas	2.060	2.060	6.92	33747	0.01	2000	
Ba	137	1	No Gas	214.951	214.951	1.96	1299825	0.02	2000	
Tl	205	1	No Gas	0.351	0.351	18.94	13031	0.00	2000	
Tl	203	1	No Gas	0.338	0.338	17.97	5108	0.01	2000	
Pb	208	1	No Gas	0.204	0.204	21.62	10749	0.00	2000	
U	238	1	No Gas	0.017	0.017	10.24	1200	0.00	2000	
Ca	43	2	He	19865.690	19865.690	2.21	35623	55.77	200000	
Sb	121	2	He	1.808	1.808	6.31	9697	0.02	2000	
Ti	47	2	He	2.807	2.807	12.05	460	0.61	2000	
Cu	63	1	No Gas	6.301	6.301	3.34	74162	0.01	2000	
Zn	66	1	No Gas	13.520	13.520	1.76	48607	0.03	2000	
Se	82	1	No Gas	1.513	1.513	24.62	803	0.19	2000	
Cd	111	2	He	0.084	0.084	39.73	142	0.06	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	520968	2.08	522841	99.64	70	120	
Ge	72	2	He	557958	0.32	540641	103.20	70	120	
Ge	72	1	No Gas	2354069	1.20	2314031	101.73	70	120	
Bi	209	1	No Gas	2789555	0.76	3008975	92.71	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	041_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:31:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	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	99.191	3.992	730013	2.90	100	99.2	90	110	
Be	9	1	No Gas	97.804	2.164	209610	1.51	100	97.8	90	110	
V	51	2	He	99.342	1.489	371768	1.68	100	99.3	90	110	
Cr	52	2	He	100.873	1.506	440870	1.84	100	100.9	90	110	
Fe	56	2	He	10099.969	1.843	41151292	2.24	10000	101.0	90	110	
Se	78	2	He	101.909	3.007	8281	3.21	100	101.9	90	110	
As	75	2	He	98.662	2.367	76078	2.75	100	98.7	90	110	
Ca	44	2	He	10013.597	2.729	293052	3.14	10000	100.1	90	110	
Na	23	2	He	10162.229	1.118	6630642	1.38	10000	101.6	90	110	
Mg	24	2	He	10198.543	0.998	4026374	1.16	10000	102.0	90	110	
K	39	2	He	9920.816	1.812	5790850	2.14	10000	99.2	90	110	
Mn	55	2	He	100.671	1.890	364042	2.24	100	100.7	90	110	
Co	59	2	He	101.337	1.514	636055	1.89	100	101.3	90	110	
Ni	60	2	He	100.721	1.115	159764	1.63	100	100.7	90	110	
Cu	63	2	He	100.792	1.989	413343	2.03	100	100.8	90	110	
Zn	66	2	He	99.092	2.562	90598	2.76	100	99.1	90	110	
Al	27	2	He	99.355	1.503	28232	1.89	100	99.4	90	110	
B	11	1	No Gas	499.405	1.979	571685	1.35	500	99.9	90	110	
Al	27	1	No Gas	102.268	1.973	1031067	1.30	100	102.3	90	110	
Si	28	1	No Gas	505.963	2.195	3010960	1.97	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.108	3.166	1939489	2.67	100	104.1	90	110	
Cd	111	1	No Gas	100.788	2.853	375198	0.74	100	100.8	90	110	
Sr	88	1	No Gas	102.249	0.887	3393417	1.34	100	102.2	90	110	
Mo	95	1	No Gas	100.021	1.843	674977	1.20	100	100.0	90	110	
Sn	118	1	No Gas	100.474	2.200	1202586	1.66	100	100.5	90	110	
Sb	121	1	No Gas	99.757	1.766	1589147	1.16	100	99.8	90	110	
Ba	137	1	No Gas	98.772	2.876	606377	0.97	100	98.8	90	110	
Tl	205	1	No Gas	102.037	0.738	3854458	1.39	100	102.0	90	110	
Tl	203	1	No Gas	104.553	2.181	1611343	2.46	100	104.6	90	110	
Pb	208	1	No Gas	102.747	0.790	5201799	1.31	100	102.7	90	110	
U	238	1	No Gas	102.870	2.525	5198050	2.35	100	102.9	90	110	
Ca	43	2	He	9829.831	4.007	17154	3.62	10000	98.3	90	110	
Sb	121	2	He	98.618	2.455	502773	2.71	100	98.6	90	110	
Ti	47	2	He	97.768	0.139	15249	0.60	100	97.8	90	110	
Cu	63	1	No Gas	100.474	0.900	1148393	0.93	100	100.5	90	110	
Se	82	1	No Gas	103.366	3.650	23337	3.20	100	103.4	90	110	
Zr	90	2	He	88.861	2.158	583956	2.39	100	88.9	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	91.040	1.650	1939451	1.00	100	91.0	90	110	
Cd	111	2	He	100.907	1.652	161360	1.48	100	100.9	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	486656	1.27	522841	93.08	70	120	
Ge	72	2	He	542975	0.60	540641	100.43	70	120	
Ge	72	1	No Gas	2331360	1.12	2314031	100.75	70	120	
Bi	209	1	No Gas	2991977	1.08	3008975	99.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	042_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq Date Time	2024-05-15T12:33:38-05:00
Sample Type	CCB
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	Upper Limit	QC Flag
Li	7	1	No Gas	-0.085	-40.0	31951	0.2	2.5	
Be	9	1	No Gas	0.136	37.5	337	33.0	2.5	
V	51	2	He	-0.114	-60.8	880	30.0	2.5	
Cr	52	2	He	-0.581	-11.4	4124	7.0	2.5	
Fe	56	2	He	9.478	10.4	52936	8.1	250	
Se	78	2	He	0.005	3763.4	152	11.2	5	
As	75	2	He	-0.003	-2133.4	183	27.1	2.5	
Ca	44	2	He	7.670	68.0	727	21.3	250	
Na	23	2	He	94.912	7.1	81726	5.7	250	
Mg	24	2	He	9.218	16.1	4107	15.1	250	
K	39	2	He	7.362	27.1	82566	0.7	250	
Mn	55	2	He	0.120	18.2	690	10.9	2.5	
Co	59	2	He	0.067	32.9	453	31.5	2.5	
Ni	60	2	He	0.081	34.6	233	19.3	2.5	
Cu	63	2	He	0.030	67.0	670	12.8	5	
Zn	66	2	He	-0.480	-12.0	890	5.9	2.5	
Al	27	2	He	2.135	4.3	1150	3.1	2.5	
B	11	1	No Gas	-0.185	-231.7	5576	8.3	10	
Al	27	1	No Gas	1.828	9.1	36802	2.6	2.5	
Si	28	1	No Gas	-0.911	-133.9	256251	0.8	10	
Ag	107	1	No Gas	0.125	36.3	3087	25.3	2.5	
Cd	111	1	No Gas	0.124	22.9	468	23.7	2.5	
Sr	88	1	No Gas	0.204	20.3	7552	16.0	2.5	
Mo	95	1	No Gas	0.284	18.2	2197	13.8	2.5	
Sn	118	1	No Gas	0.238	20.5	5221	9.3	2.5	
Sb	121	1	No Gas	0.820	22.7	13644	19.6	2.5	
Ba	137	1	No Gas	0.249	12.4	1747	10.7	2.5	
Tl	205	1	No Gas	0.230	24.2	9704	20.7	2.5	
Tl	203	1	No Gas	0.237	22.7	4031	19.4	2.5	
Pb	208	1	No Gas	0.154	23.0	9268	18.2	2.5	
U	238	1	No Gas	0.140	31.3	7699	27.8	2.5	
Ca	43	2	He	37.342	33.8	73	31.5	250	
Sb	121	2	He	0.562	4.3	3147	3.5	2.5	
Ti	47	2	He	0.124	100.8	30	66.7	2.5	
Cu	63	1	No Gas	0.128	43.3	2994	19.0	2.5	
Se	82	1	No Gas	-0.448	-50.9	360	12.1	5	
Zr	90	2	He	0.375	16.5	3407	12.6	5	
Zr	90	1	No Gas	0.670	21.0	15663	17.0	5	
Cd	111	2	He	0.079	7.5	142	8.1	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

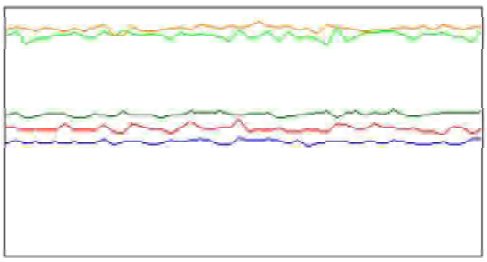
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	506712	0.96	522841	96.92	70	120	
Ge	72	2	He	553577	1.01	540641	102.39	70	120	
Ge	72	1	No Gas	2328854	2.05	2314031	100.64	70	120	
Bi	209	1	No Gas	3088206	1.75	3008975	102.63	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\051524B.b
Acq. Date-Time	5/15/2024 10:31:10 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[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	5000	2580	25796.84		
24	10000	8915	89154.38		
59	50000	23132	231319.75		
115	50000	46067	460668.08		
208	50000	28724	287244.86		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.533	5.000	
24	1.710	5.000	
59	1.486	5.000	
115	1.235	5.000	
208	1.499	5.000	

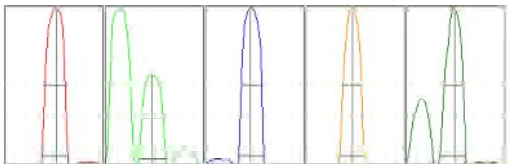
Mass	Background	Background (Required)	Background (Flag)
9	0.800		
24	0.300		
59	0.500		
115	0.400		
208	2.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.199 %
Doubly Charged	70 / 140 0.553 %

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	2674.38	9.10	8.90 - 9.10	
24	8967.20	23.95	23.90 - 24.10	
59	23587.39	58.90	58.90 - 59.10	
115	46902.68	114.95	114.90 - 115.10	
208	28757.50	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.784		
24	0.66	0.830		
59	0.63	0.741		
115	0.56	0.730		
208	0.59	0.784		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.0 V	Deflect	18.0 V
Extract 2	-190.0 V	Cell Entrance	-60 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-60 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	185 V		

QP Parameters

Mass Gain	129	Axis Gain	0.9994	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm

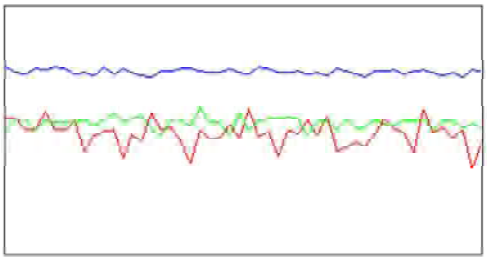
EM

Discriminator	4.5 mV	Analog HV	2136 V	Pulse HV	1032 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	200	97	974.43		
24	1000	531	5311.01		
59	10000	7386	73862.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

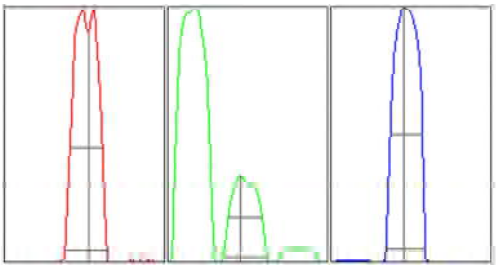
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	10.978	5.000	Fail
24	4.357	5.000	
59	1.510	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.100		
24	0.200		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.546 %
Doubly Charged	70 / 140 0.688 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	92.26	9.10	8.90 - 9.10	
24	548.88	23.90	23.90 - 24.10	
59	7420.27	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.782		
24	0.65	0.826		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.737		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.0 V	Deflect	1.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	3.6 mL/min	OctP Bias	-15.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	129	Axis Gain	0.9994	QP Bias	-11.0 V
Mass Offset	125	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm		

EM

Discriminator	4.5 mV	Analog HV	2136 V	Pulse HV	1032 V

HS24050531 E2400477 Perch Level IV Report

ALS WO# HS24050531

May 20, 2024 Service Request No:E2400477

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24050531

Enclosed are the results of the sample(s) submitted to our laboratory May 09, 2024
For your reference, these analyses have been assigned our service request number **E2400477.**

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

Client:	ALS Environmental - US	Service Request No.:	E2400477
Project:	HS24050531	Date Received:	05/09/24
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 05/09/24.

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:

EQ2400230: 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:**E2400477
Project: HS24050531

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400477-001	LH18/24-SP650_050824_AIX	5/8/2024	1300

Service Request Summary

Folder #: **E2400477**
Client Name: ALS Environmental - US
Project Name: HS24050531
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400477-001	LH18/24-SP650_050824_AIX	Water	05/08/24 1300	**IV**

Service Request Summary

Folder #: **E2400477**
Client Name: ALS Environmental - US
Project Name: HS24050531
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/09/24
Internal Due Date: 5/21/2024
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-LTS 1B
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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
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 Hampshire Environmental Laboratory Accreditation Program	04016-2024	4/30/2025
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
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

E2400477 5
ALS Group USA, Corp
HS24050531

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: 25599**

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:	HS24050531
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050531-02**	**LH18/24-SP650_050824_AIX**	**Water**	**08 May 2024 13:00**
	Provide Level II and Level IV reports in separate pdfInclude EDDS - EQUIS EFWEDD_LHAAP and BASICWQC_CASNo			16 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: 5/9/24 1020

Cooler ID(s): _____ Temperature(s): _____

E2400477
ALS Group USA, Corp.
HS24050531
5

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24050531 **Date/Time received:** 09 May 2024 10:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Nelson D. Dusara

Completed/By: 09 May 2024 12:05 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 05/09/2024 1205

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

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#: 438298 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 5/10/24 13:04

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400464-001	LGAC-INF-050624	.02	6850/ClO4 DOD			Water	10mL	
2	E2400476-001	LH18/24-SP140_050824	.01	6850/ClO4 DOD			Water	10mL	
3	E2400477-001	LH18/24-SP650_050824_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2400230-01	MB		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400230-02	LCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400230-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
7	EQ2400230-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400464-001 100.00µL E2400476-001 100.00µL E2400477-001 100.00µL EQ2400230-01 100.00µL EQ2400230-02 100.00µL EQ2400230-03 100.00µL
EQ2400230-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400230-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400230-02 100.00µL EQ2400230-03 100.00µL EQ2400230-04 100.00µL

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 (231696)

Preparation Steps

Step: Preparation
Started: 5/10/24 13:04
Finished: 5/10/24 16:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Preparation Information Benchsheet

Prep Run#: 438298
Team: Semivoa GCMS/JOSEL.JUAREZ

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/10/24 13:04

Chain of Custody

Relinquished By:		Date:		Extracts Examined
Received By:		Date:		Yes No

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Analytical Results

ALS Environmental - Houston Specialties Laboratory
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	5/ 8/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 9/24
Sample Name:	LH18/24-SP650_050824_AIX	**Units:**	µg/L
Lab Code:	E2400477-001	**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	**0.275**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:50	438298	840924	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400230-01	**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	5/10/24	5/10/24 17:15	438298	840923	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Analyzed:**	5/10/24 - 5/14/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	438298

	Lab Control Sample EQ2400230-02			Duplicate Lab Control Sample EQ2400230-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0982	0.100	98	0.110	0.100	110	84 - 119	12	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:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-02	**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	**0.0982**	J	0.100	0.0500	0.0250	1	5/10/24	5/10/24 17:21	438298	840923	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400230-03	**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	**0.110**		0.100	0.0500	0.0250	1	5/10/24	5/14/24 15:33	438298	840924	

ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

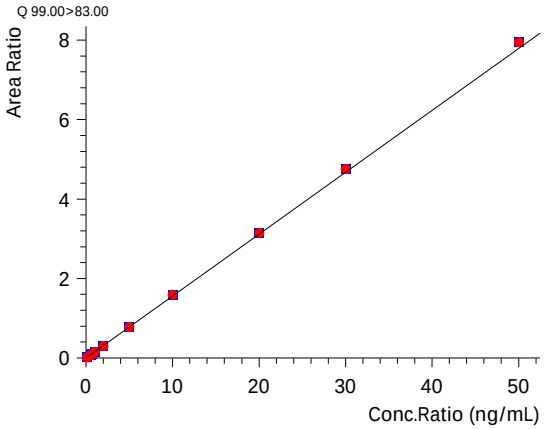
Insight Calibration Report

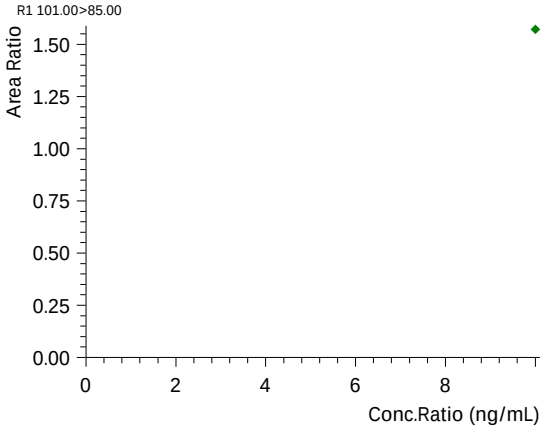
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

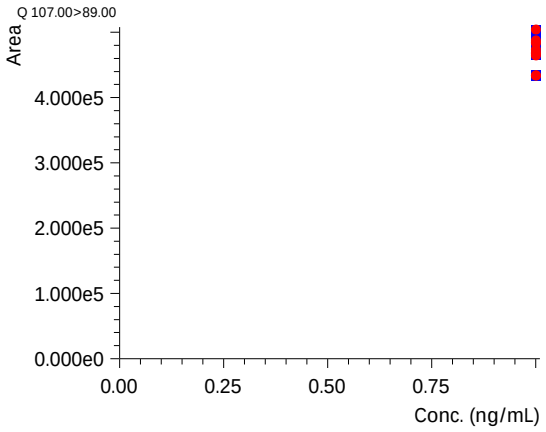
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

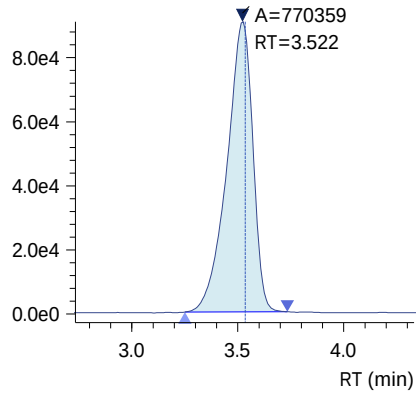
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

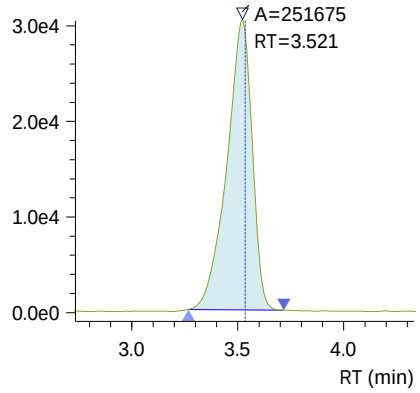
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



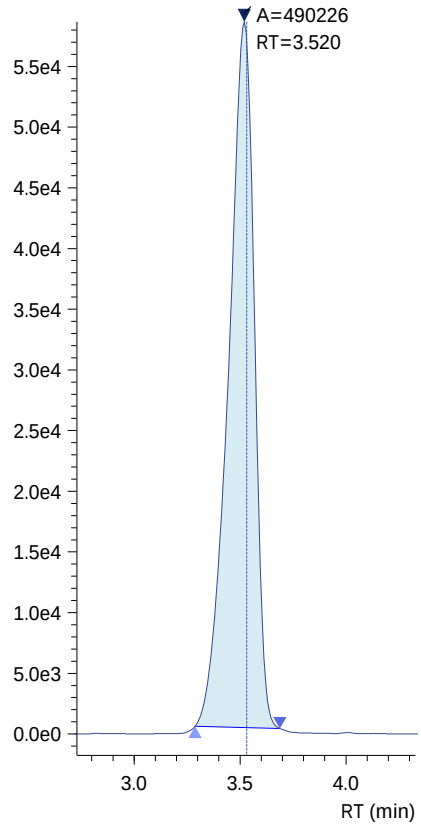
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

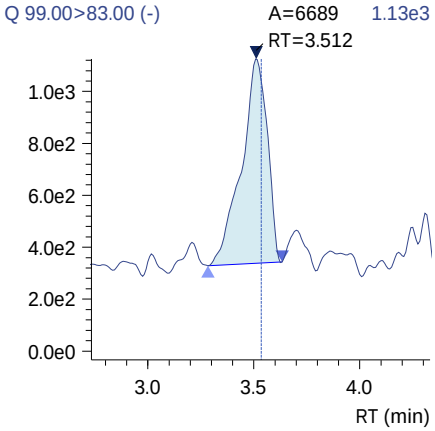
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

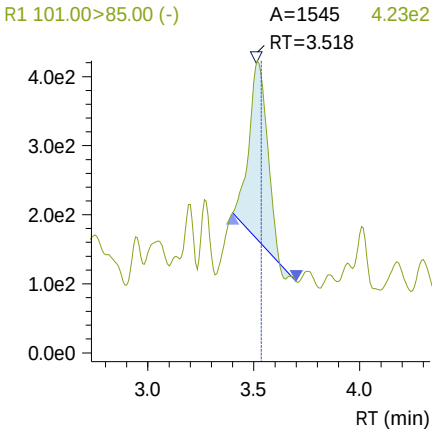
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

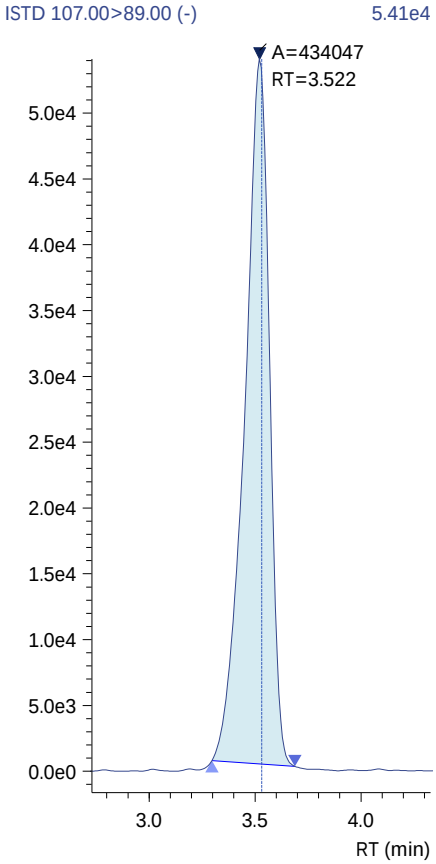
Conc 0.0989
R#1 23.10 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

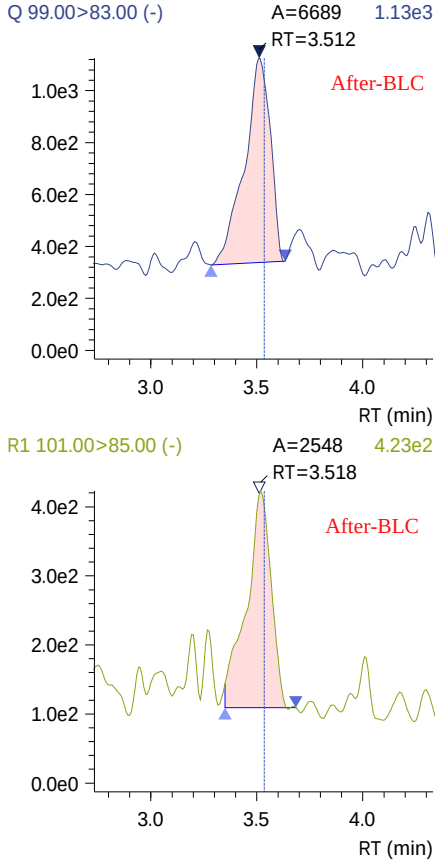
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.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	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

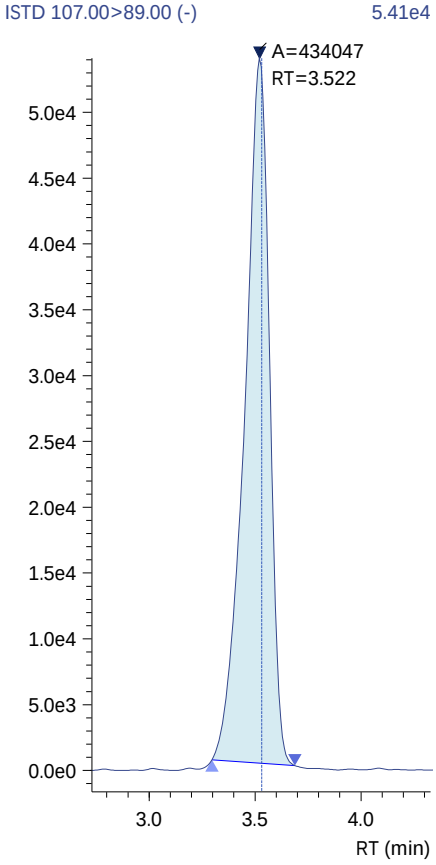
Perchlorate

Conc 0.0989
R#1 38.09 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 2

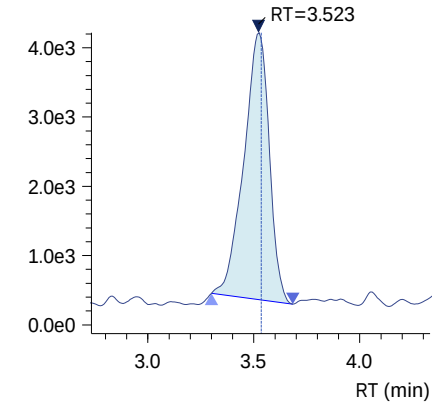
Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

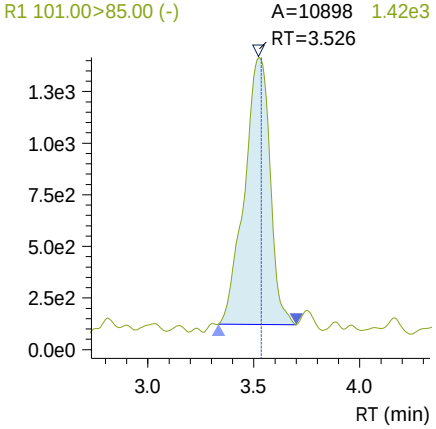
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)

Q 99.00>83.00 (-) A=32102 4.22e3



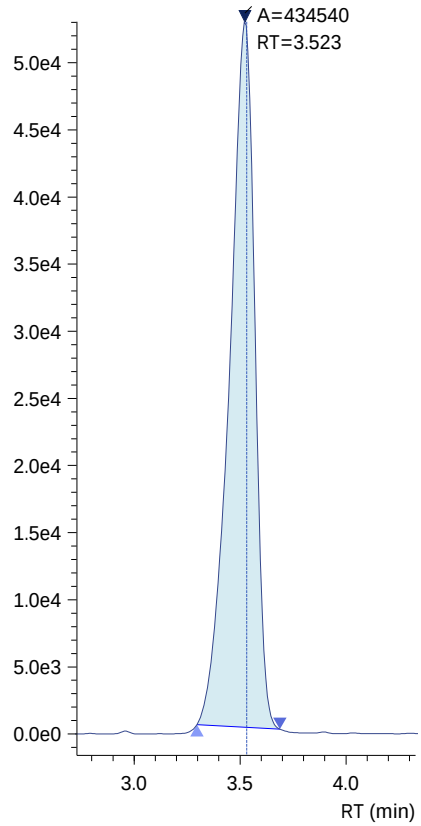
R1 101.00>85.00 (-) A=10898 1.42e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.31e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

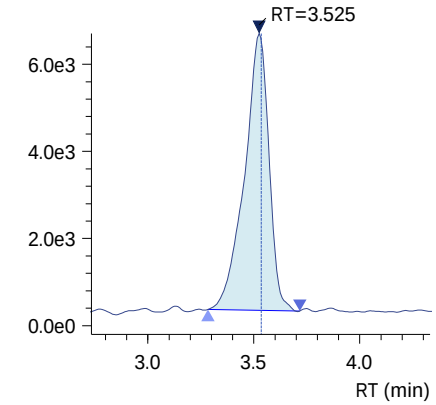
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

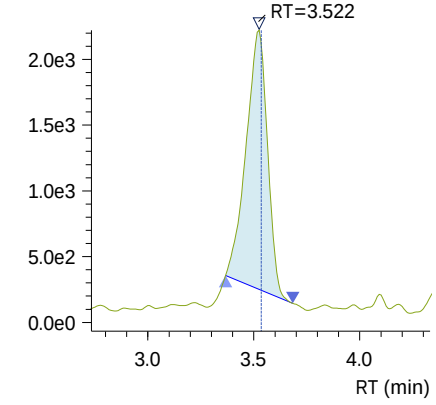
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



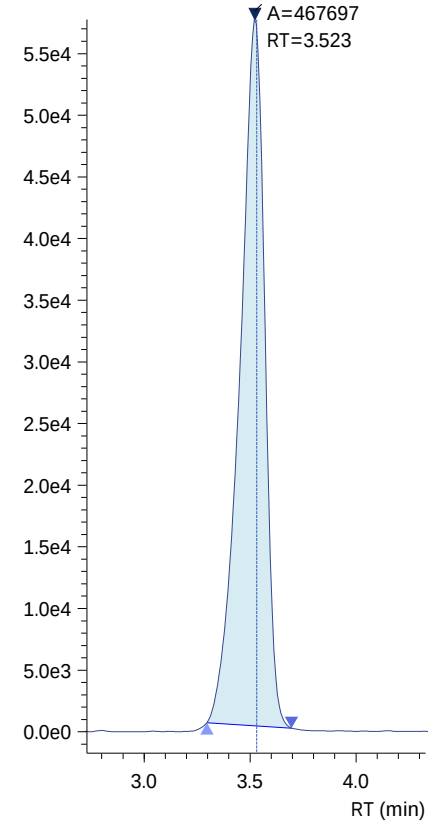
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

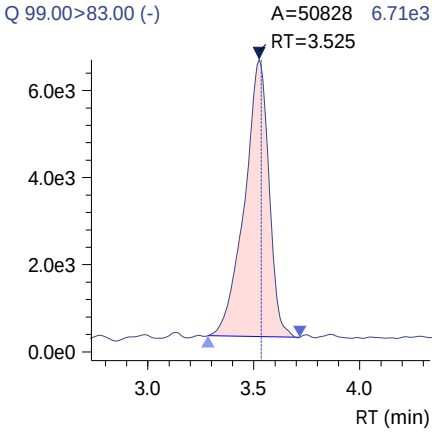
Perchlorate ICAL 3

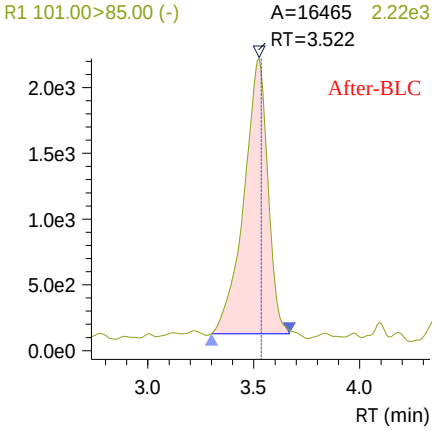
Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

Perchlorate

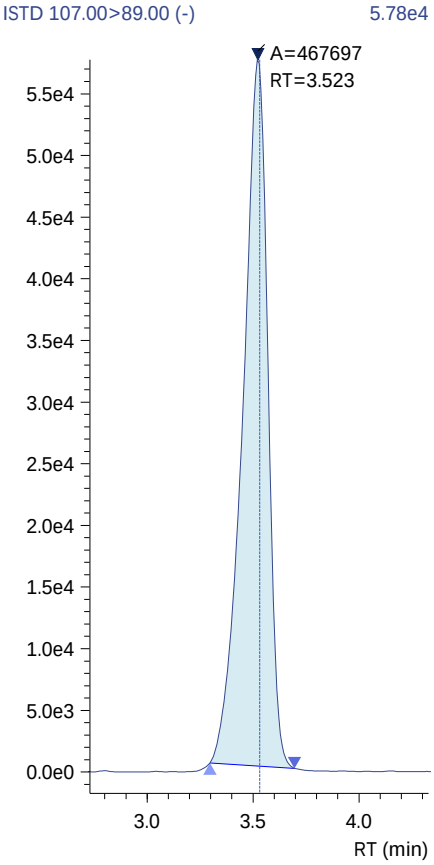
Conc 0.6975
R#1 32.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

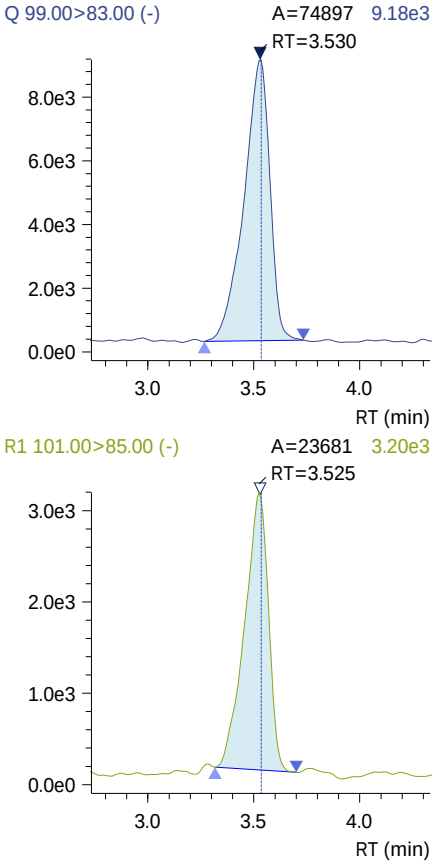
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.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	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

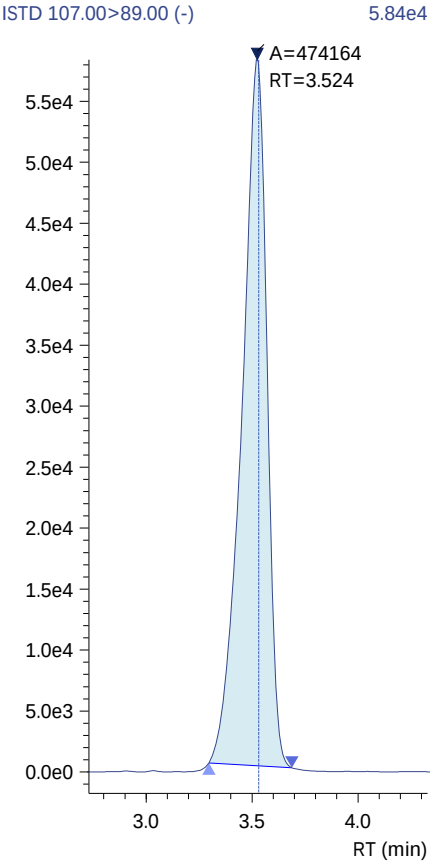
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

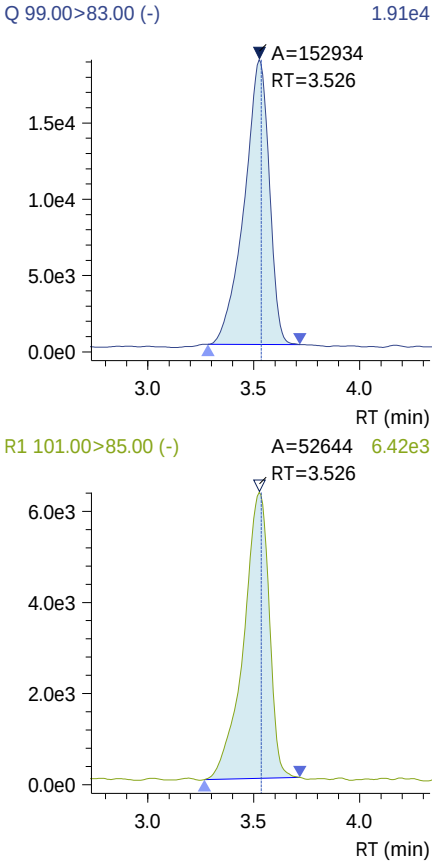
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.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	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

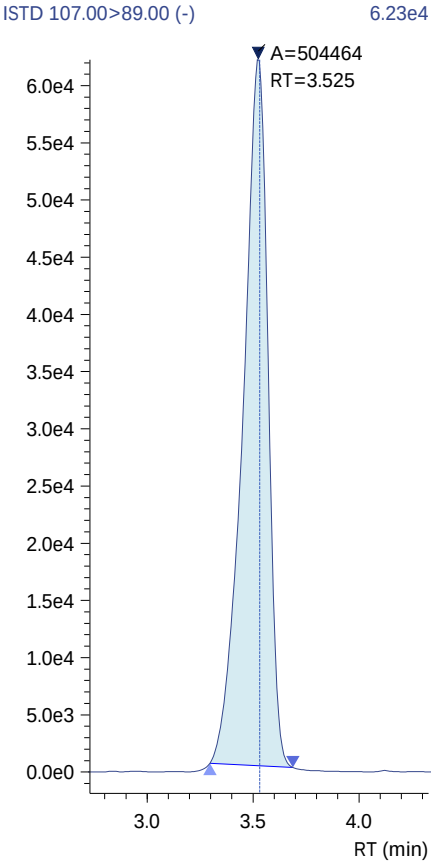
Perchlorate

Conc 1.9458
R#1 34.42 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

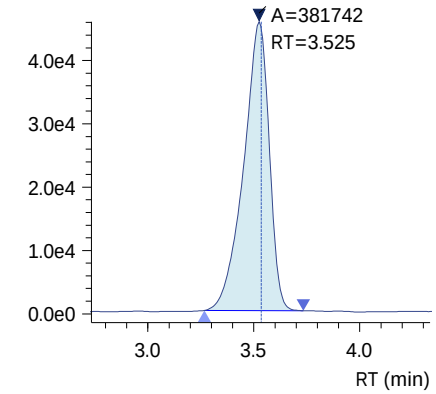
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

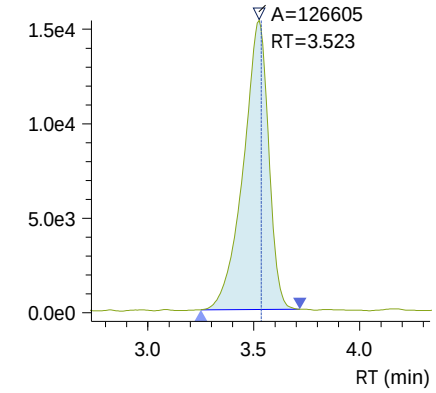
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



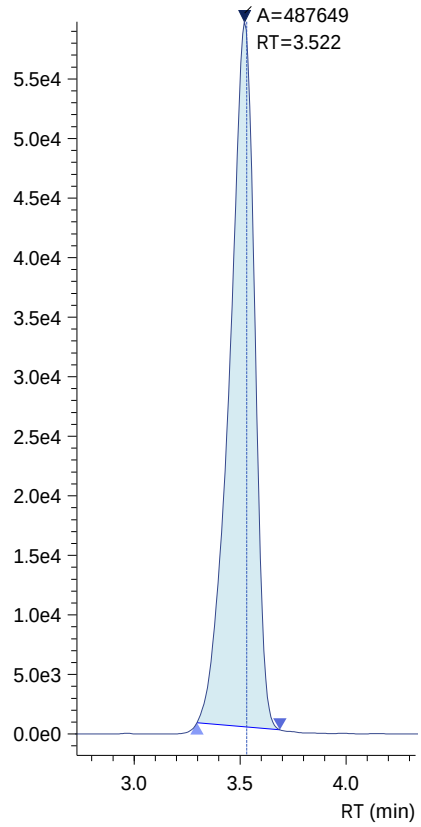
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

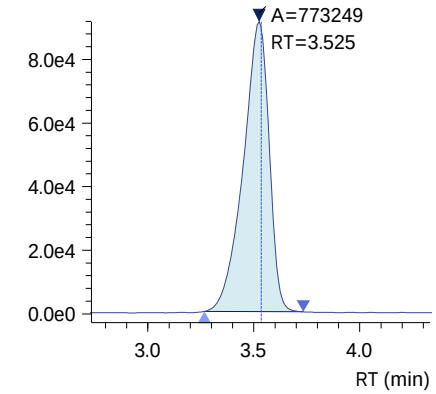
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

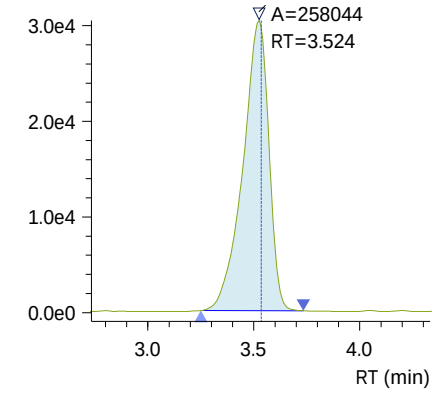
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



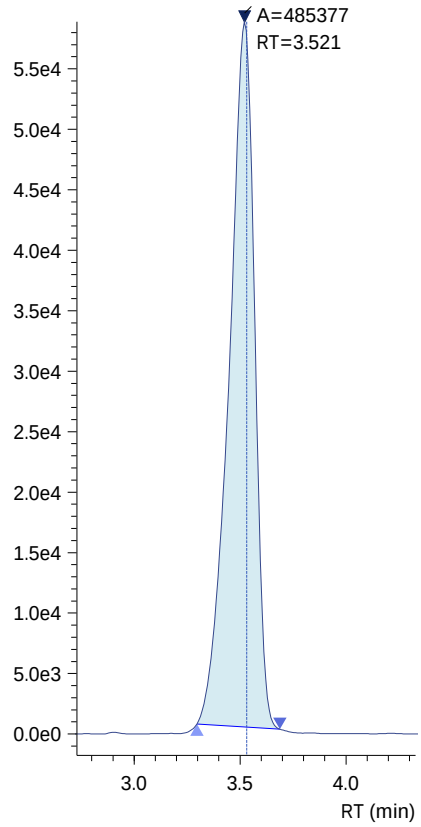
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

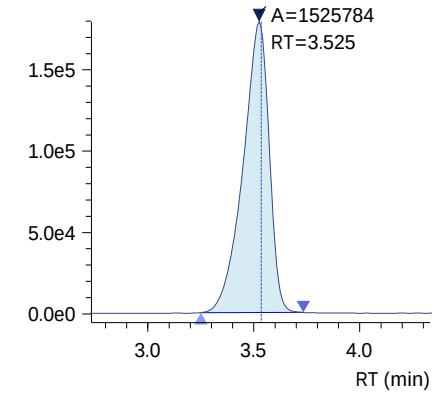
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

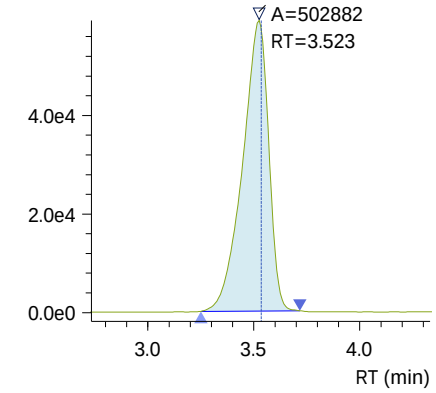
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



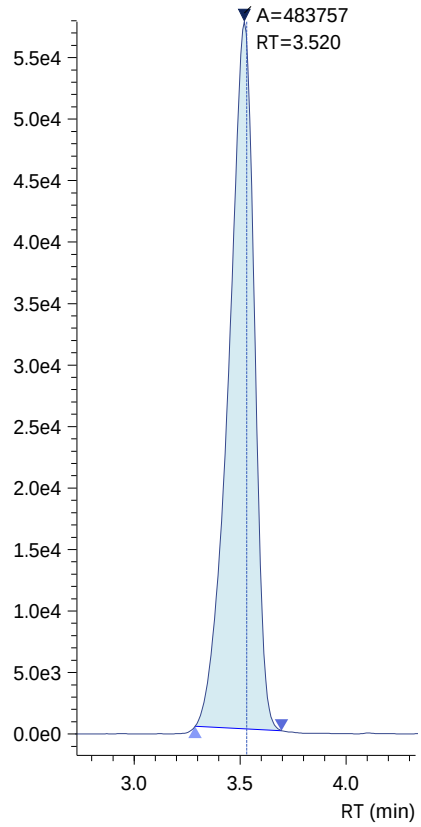
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

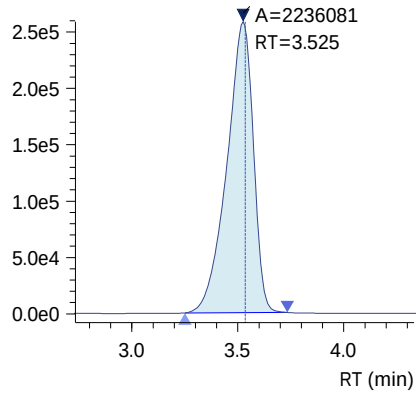
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360 81	469429	30.5 732	ng/mL	101.00 >85.00	32.91	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

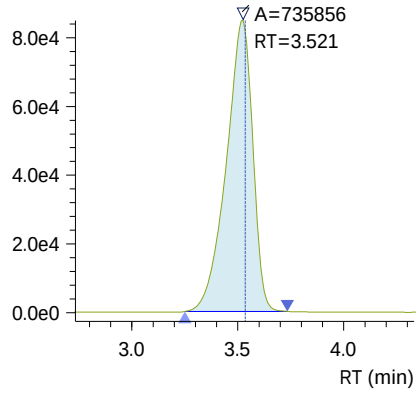
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



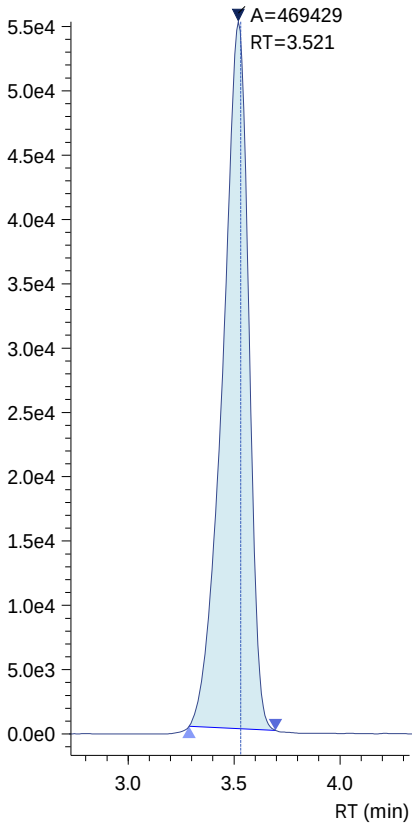
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

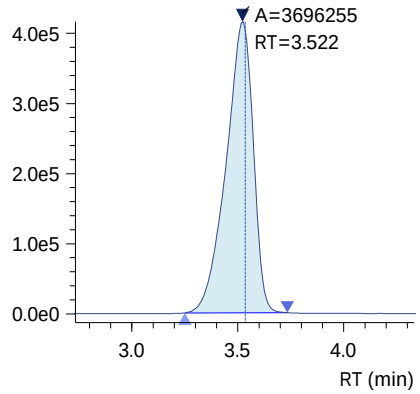
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

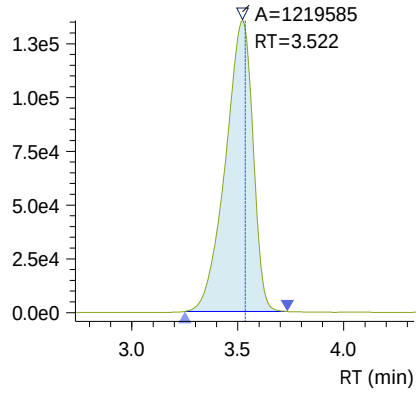
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



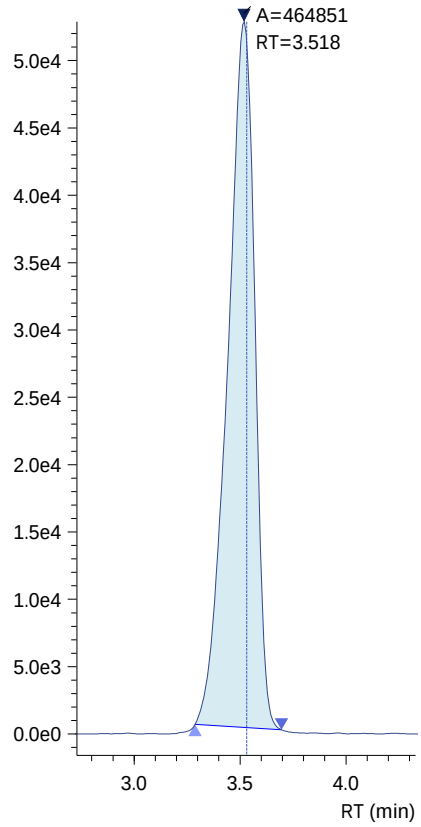
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

840627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x		4/24/2024 11:26
12	20240424-019	IB	Perchlorate6850c.lcm	1x		4/24/2024 11:32
13	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/24/2024 13:30
14	20240513-001	IB	Perchlorate6850c.lcm	1x		5/13/2024 16:11
15	20240513-002	IB	Perchlorate6850c.lcm	1x		5/13/2024 16:17
16	20240513-003	LODV	Perchlorate6850c.lcm	1x		5/13/2024 16:22
17	20240513-004	ICS	Perchlorate6850c.lcm	1x		5/13/2024 16:28
18	20240513-005	CCV	Perchlorate6850c.lcm	1x		5/13/2024 16:33
19	20240513-006	IB	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:39
20	20240513-007	E2400228-04LCS4	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:44
21	20240513-008	EQ2400231-03LCS2	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:50
22	20240513-009	EQ2400230-03DLCS	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 16:56
23	20240513-010	E2400473-003	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:01
24	20240513-011	E2400473-004	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:07
25	20240513-012	E2400477-001	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:12
26	20240513-013	E2400476-001 1000	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:18
27	20240513-014	CCV	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:23
28	20240513-015	IB	Perchlorate6850c.lcm	1x	DNU ISs	5/13/2024 17:29
29						
30						
31						
32						
33						
34						
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37						
38						
39						
40						

840627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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
41						
42						
43						
44						
45						
46						
47						

84627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x		4/24/2024 11:26
12	20240510-001	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:16
13	20240510-002	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:21
14	20240510-003	LODV	Perchlorate6850c.lcm	1x		5/10/2024 14:27
15	20240510-004	ICS	Perchlorate6850c.lcm	1x		5/10/2024 14:32
16	20240510-005	CCV	Perchlorate6850c.lcm	1x		5/10/2024 14:38
17	20240510-006	IB	Perchlorate6850c.lcm	1x		5/10/2024 14:43
18	20240510-007	EQ2400229-01MB	Perchlorate6850c.lcm	1x		5/10/2024 15:58
19	20240510-008	EQ2400229-02LCS	Perchlorate6850c.lcm	1x		5/10/2024 16:03
20	20240510-009	EQ2400229-03DLCS	Perchlorate6850c.lcm	1x		5/10/2024 16:09
21	20240510-010	EQ2400229-04ICS	Perchlorate6850c.lcm	1x		5/10/2024 16:14
22	20240510-011	E2400473-003	Perchlorate6850c.lcm	1x	DNU incorrect spot	5/10/2024 16:20
23	20240510-012	E2400473-004	Perchlorate6850c.lcm	1x	DNU incorrect spot	5/10/2024 16:25
24	20240510-013	E2400420-001	Perchlorate6850c.lcm	1x		5/10/2024 16:31
25	20240510-014	EQ2400228-01MB	Perchlorate6850c.lcm	1x		5/10/2024 16:36
26	20240510-015	EQ2400228-02LCS1	Perchlorate6850c.lcm	1x		5/10/2024 16:42
27	20240510-016	EQ2400228-03LCS2	Perchlorate6850c.lcm	1x		5/10/2024 16:48
28	20240510-017	CCV	Perchlorate6850c.lcm	1x		5/10/2024 16:53
29	20240510-018	IB	Perchlorate6850c.lcm	1x		5/10/2024 16:59
30	20240510-019	E2400228-04LCS3	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 17:04
31	20240510-020	E2400228-04LCS4	Perchlorate6850c.lcm	1x		5/10/2024 17:10
32	20240510-021	EQ2400230-01MB	Perchlorate6850c.lcm	1x		5/10/2024 17:15
33	20240510-022	EQ2400230-02LCS	Perchlorate6850c.lcm	1x		5/10/2024 17:21
34	20240510-023	EQ2400230-03DLCS	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 17:26
35	20240510-024	EQ2400230-04ICS	Perchlorate6850c.lcm	1x		5/10/2024 17:32
36	20240510-025	E2400464-001	Perchlorate6850c.lcm	1x		5/10/2024 17:37
37	20240510-026	E2400476-001	Perchlorate6850c.lcm	1x	DNU ISs	5/10/2024 17:43
38	20240510-027	E2400477-001	Perchlorate6850c.lcm	1x	DNU possible C/O	5/10/2024 17:48
39	20240510-028	CCV	Perchlorate6850c.lcm	1x		5/10/2024 17:54
40	20240510-029	IB	Perchlorate6850c.lcm	1x		5/10/2024 18:00

84627

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 4/24/2024
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
41	20240510-030	EQ2400231-01MB	Perchlorate6850c.lcm	1x		5/10/2024 18:05
42	20240510-031	EQ2400231-02LCS1	Perchlorate6850c.lcm	1x		5/10/2024 18:11
43	20240510-032	EQ2400231-03LCS2	Perchlorate6850c.lcm	1x	DNU out of range	5/10/2024 18:16
44	20240510-033	EQ2400231-04LCS3	Perchlorate6850c.lcm	1x		5/10/2024 18:22
45	20240510-034	EQ2400231-05LCS4	Perchlorate6850c.lcm	1x		5/10/2024 18:27
46	20240510-035	CCV	Perchlorate6850c.lcm	1x		5/10/2024 18:33
47	20240510-036	IB	Perchlorate6850c.lcm	1x		5/10/2024 18:38

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400477
Project:	HS24050531	**Date Analyzed:**	5/10/24 17:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240510\20240510-028	**Lab Code:**	EQ2400234-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840923
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400234-03	307,886	3.50

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:**	E2400477
Project:	HS24050531	**Date Analyzed:**	5/10/24 18:33

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240510\20240510-035	**Lab Code:**	EQ2400234-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	840923
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400234-04	301,911	3.50

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: HS24050531

Service Request: E2400477
Date Analyzed: 5/10/24

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\20240510\20240510-028

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840923
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1558	0.1659	6.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050531

Service Request: E2400477
Date Analyzed: 5/10/24

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\20240510\20240510-035

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 840923
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1558	0.1649	5.8	NA	± 15 %	Average RF

Insight Report

Printed at 5/15/2024 3:04:29 PM

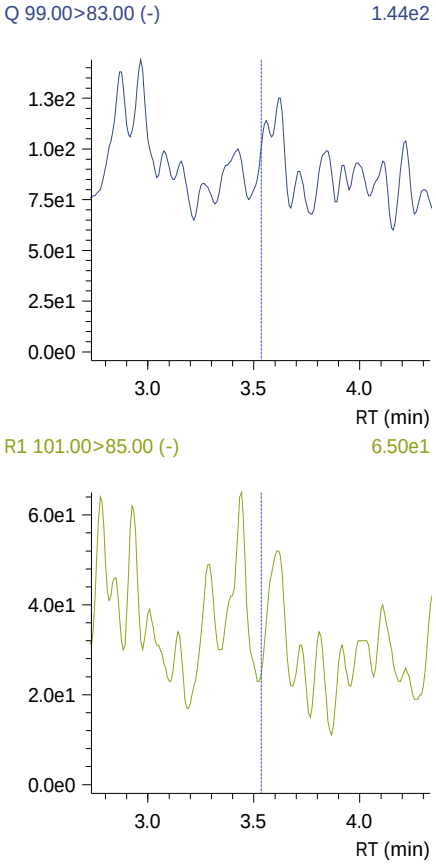
IB

Sample ID: IB
Date Acquired: 5/10/2024 2:16:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-001.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	ND(W/B)	----	----	321873	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.501	321873	321873	1.0000	ng/mL	----	----	

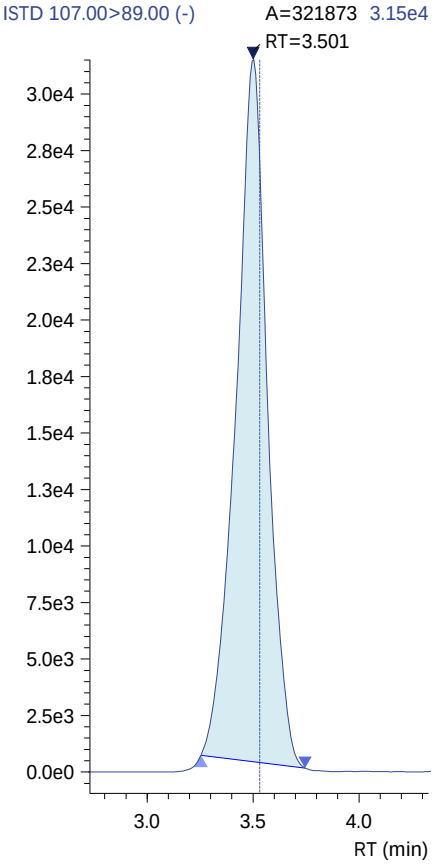
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

IB

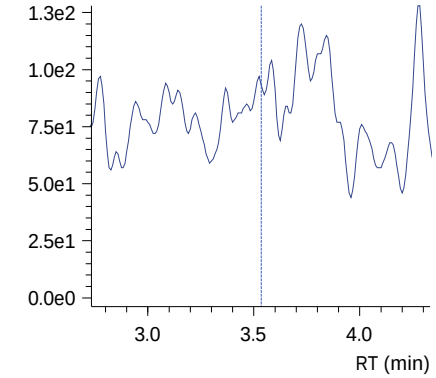
Sample ID: IB
Date Acquired: 5/10/2024 2:21:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	314085	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.510	314085	314085	1.0000	ng/mL	----	----	

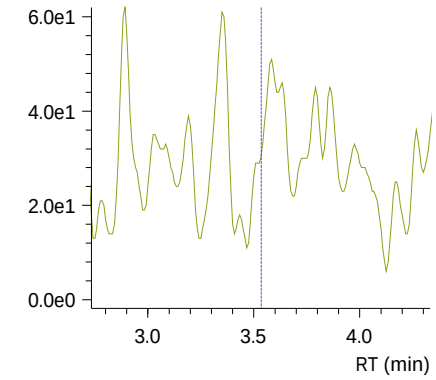
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.28e2



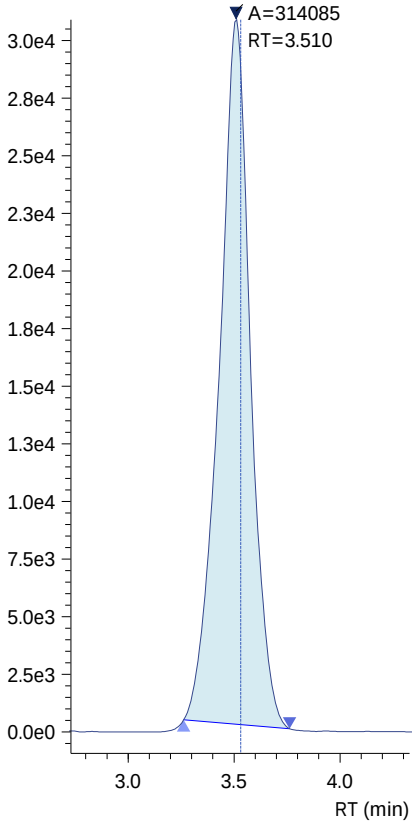
R1 101.00>85.00 (-) 6.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.09e4



Insight Report

Printed at 5/15/2024 3:04:29 PM

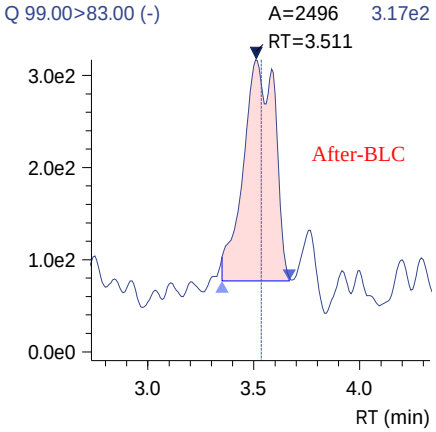
LODV

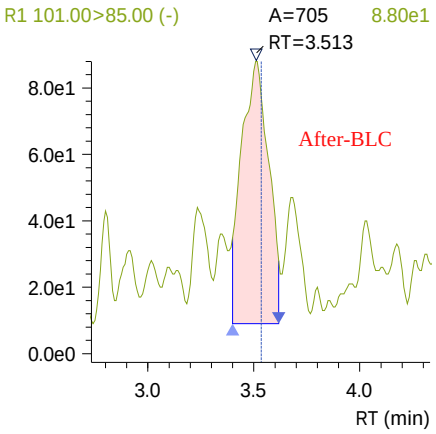
Sample ID: LODV
Date Acquired: 5/10/2024 2:27:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.511	2496	313066	0.0512	ng/mL	101.00 >85.00	28.24	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.506	313066	313066	1.0000	ng/mL	----	----	

Perchlorate

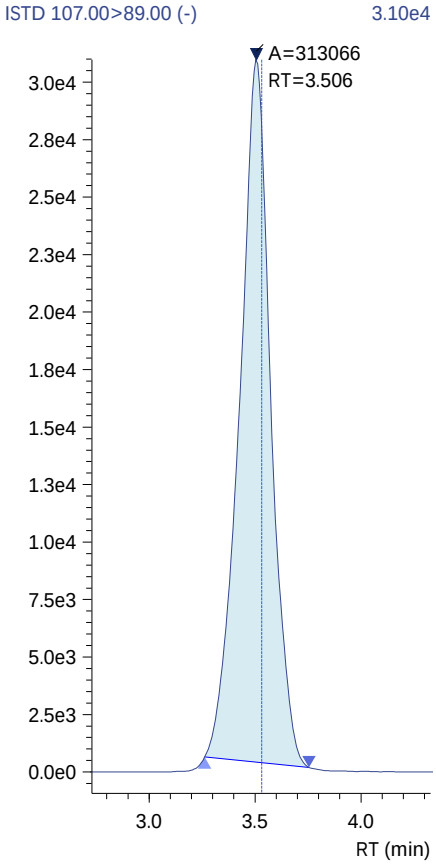
Conc 0.0512
R#1 28.24 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:05:46 PM

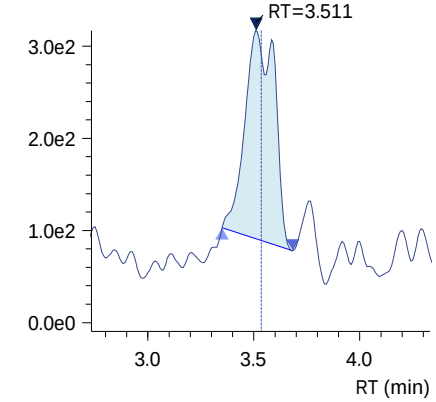
LODV

Sample ID: LODV
Date Acquired: 5/10/2024 2:27:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

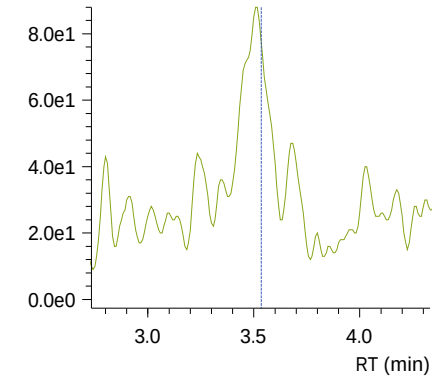
Perchlorate

Conc 0.0457
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2228 3.17e2



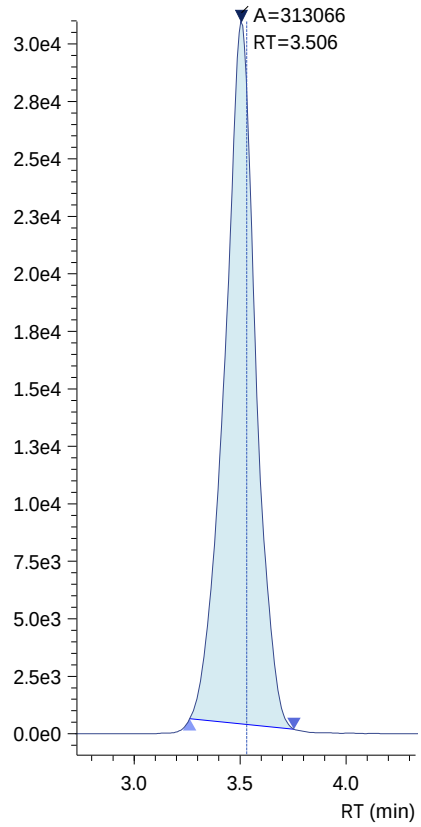
R1 101.00>85.00 (-) 8.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.10e4



Insight Report

Printed at 5/15/2024 3:04:29 PM

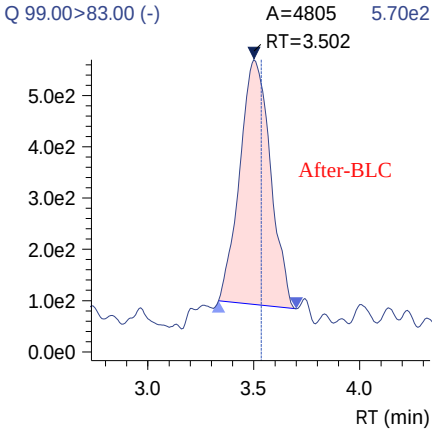
ICS

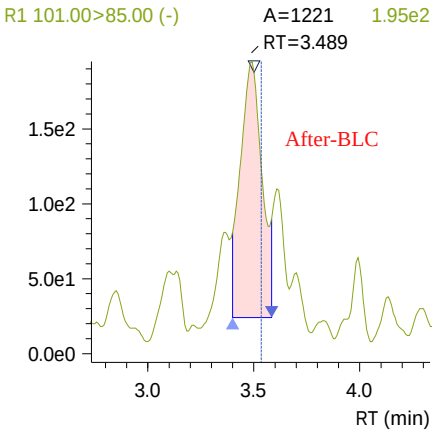
Sample ID: ICS
Date Acquired: 5/10/2024 2:32:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.502	4805	353962	0.0871	ng/mL	101.00 >85.00	25.41	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.505	353962	353962	1.0000	ng/mL	----	----	

Perchlorate

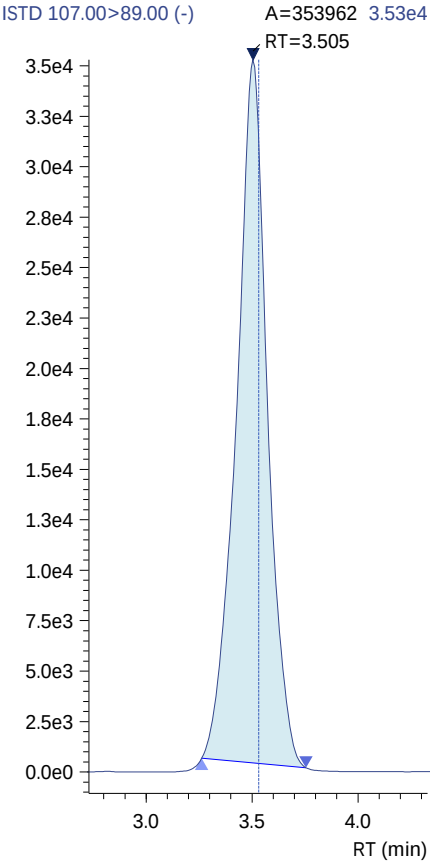
Conc 0.0871
R#1 25.41 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

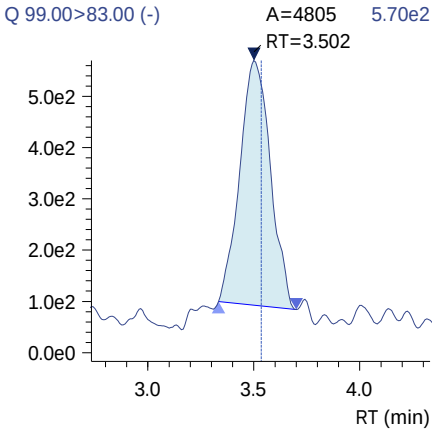
Printed at 5/15/2024 3:05:46 PM

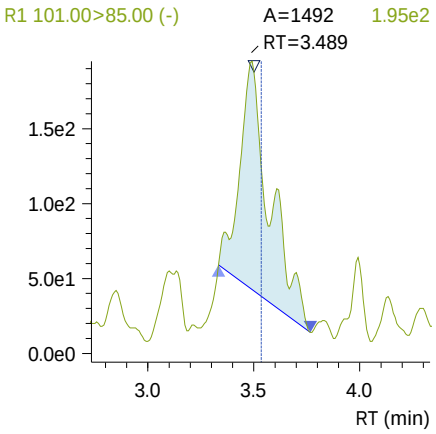
ICS

Sample ID: ICS
Date Acquired: 5/10/2024 2:32:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

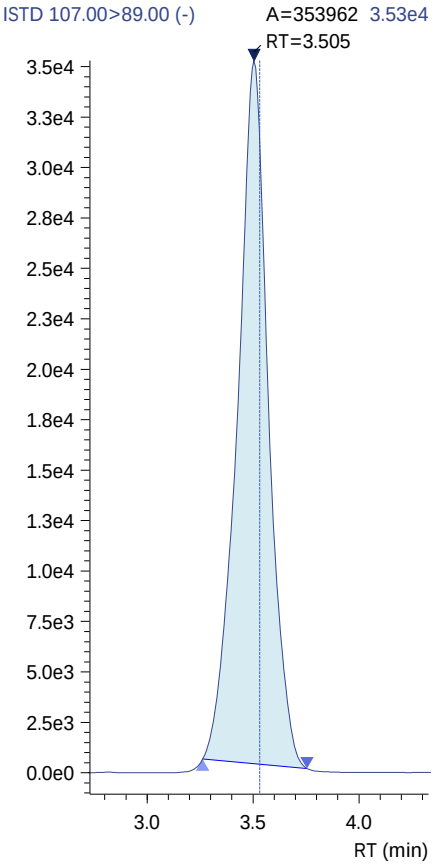
Conc 0.0871
R#1 31.06 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

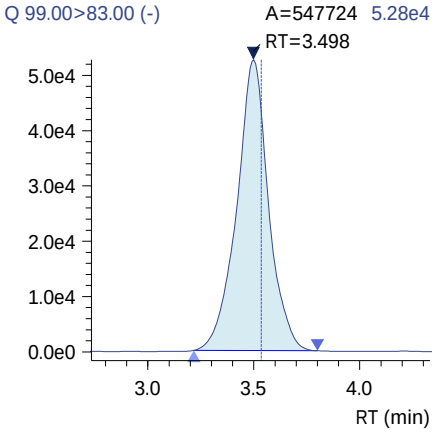
CCV

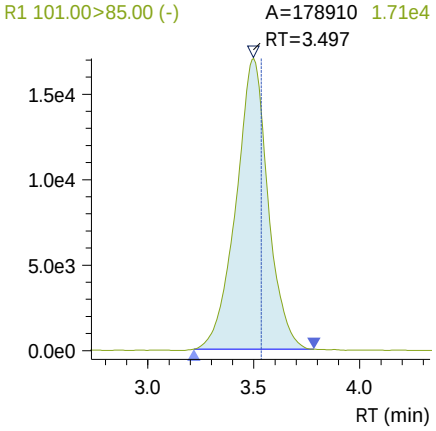
Sample ID: CCV
Date Acquired: 5/10/2024 4:53:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.498	547724	332548	10.5 714	ng/mL	101.00 >85.00	32.66	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.498	332548	332548	1.0000	ng/mL	----	----	

Perchlorate

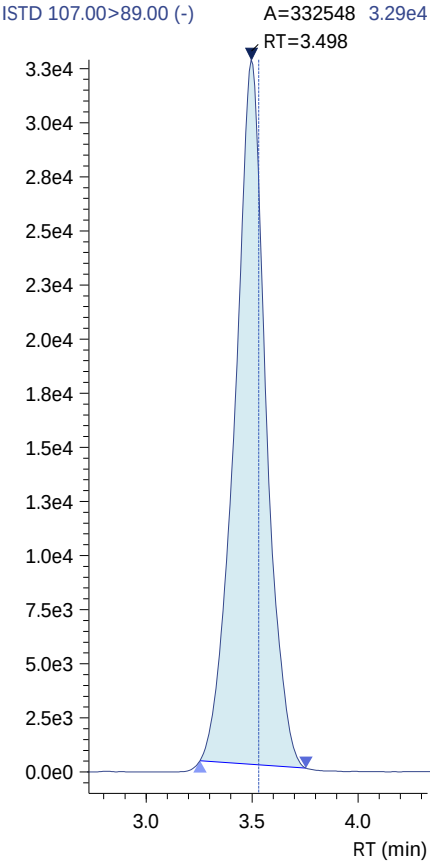
Conc 10.5714
R#1 32.66 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

IB

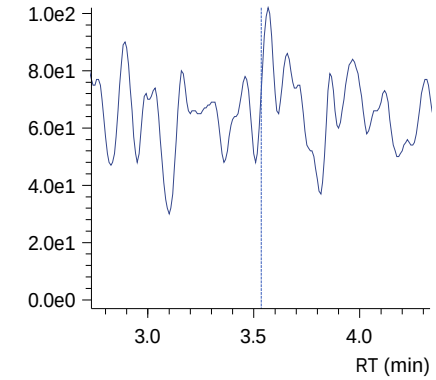
Sample ID: IB
Date Acquired: 5/10/2024 4:59:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	316776	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.495	316776	316776	1.0000	ng/mL	----	----	

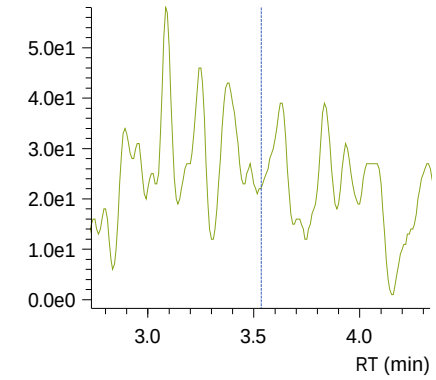
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.02e2



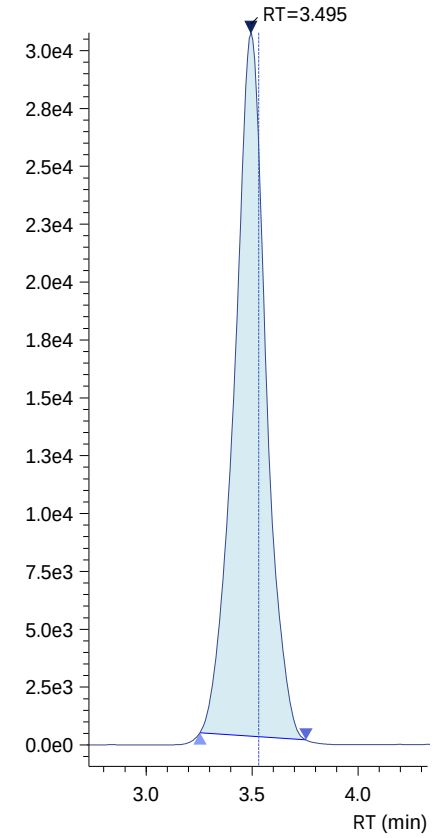
R1 101.00>85.00 (-) 5.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=316776 3.08e4



Insight Report

Printed at 5/15/2024 3:04:29 PM

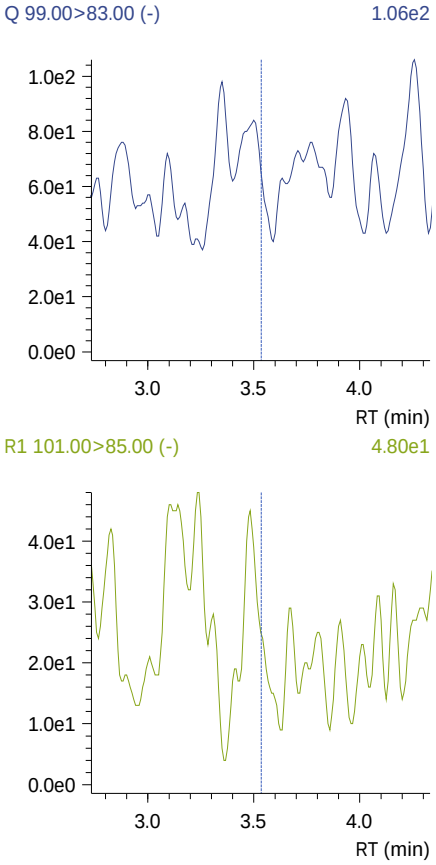
EQ2400230-01MB

Sample ID: EQ2400230-01
Date Acquired: 5/10/2024 5:15:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-021.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	323722	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.497	323722	323722	1.0000	ng/mL	----	----	

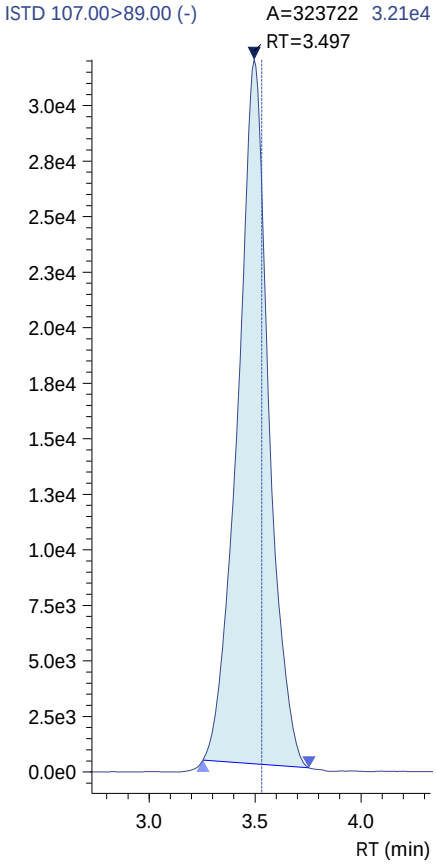
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

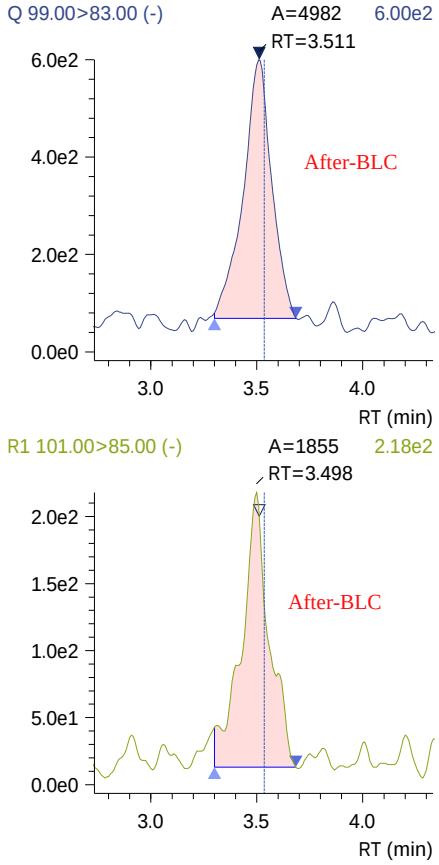
EQ2400230-02LCS

Sample ID: EQ2400230-02
Date Acquired: 5/10/2024 5:21:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-022.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.511	4982	325606	0.0982	ng/mL	101.00 >85.00	37.24	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.497	325606	325606	1.0000	ng/mL	----	----	

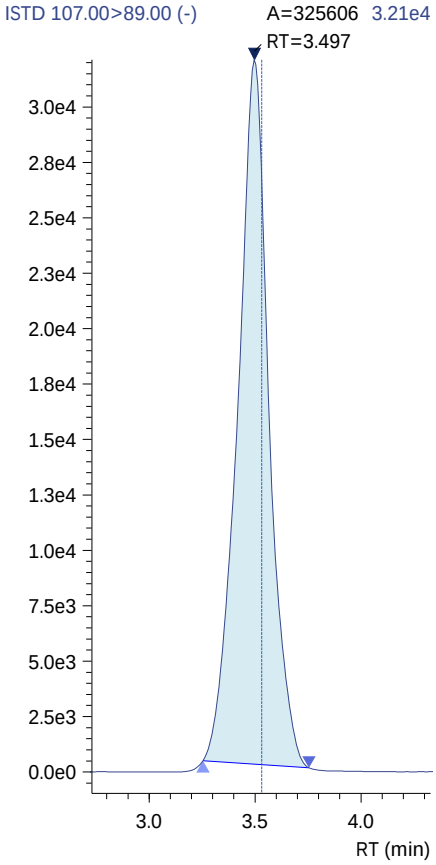
Perchlorate

Conc 0.0982
R#1 37.24 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

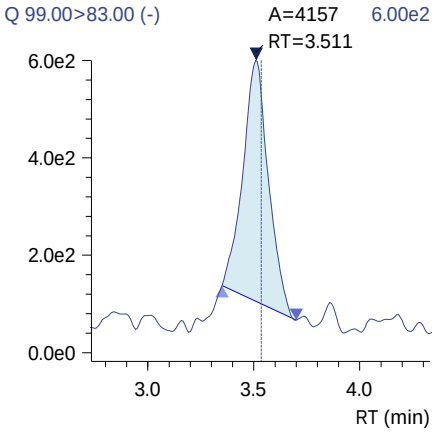
Printed at 5/15/2024 3:05:46 PM

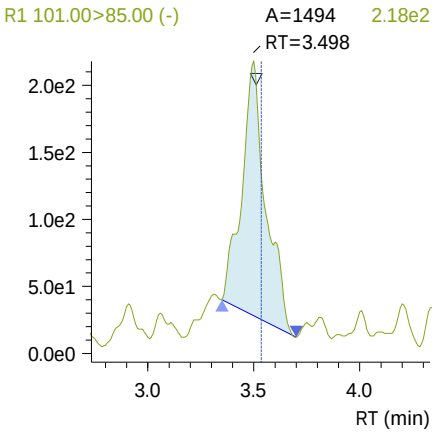
EQ2400230-02LCS

Sample ID: EQ2400230-02
Date Acquired: 5/10/2024 5:21:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-022.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 3

Perchlorate

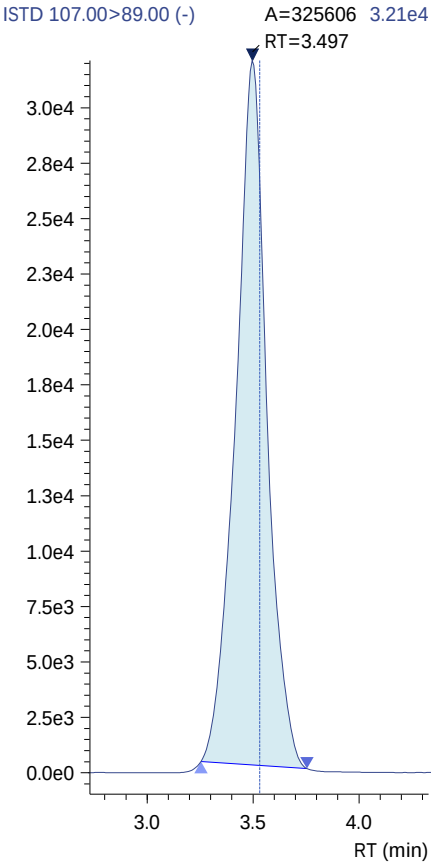
Conc 0.0819
R#1 35.93 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

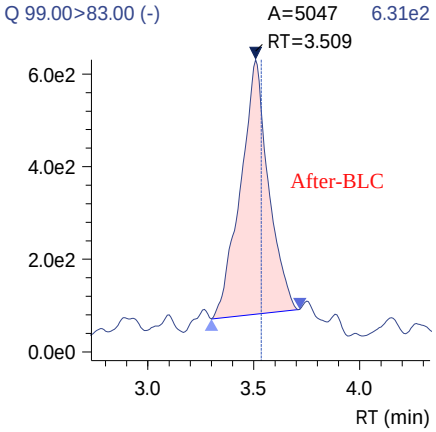
EQ2400230-04ICS

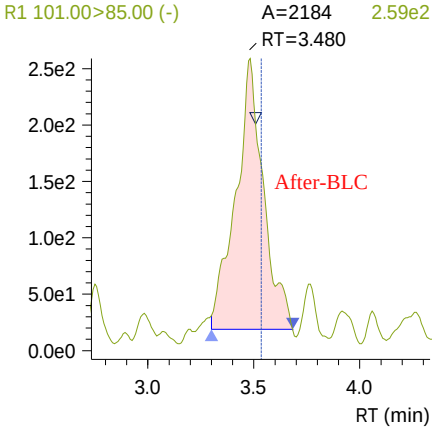
Sample ID: EQ2400230-04
Date Acquired: 5/10/2024 5:32:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-024.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.509	5047	325867	0.0994	ng/mL	101.00 >85.00	43.27	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.496	325867	325867	1.0000	ng/mL	----	----	

Perchlorate

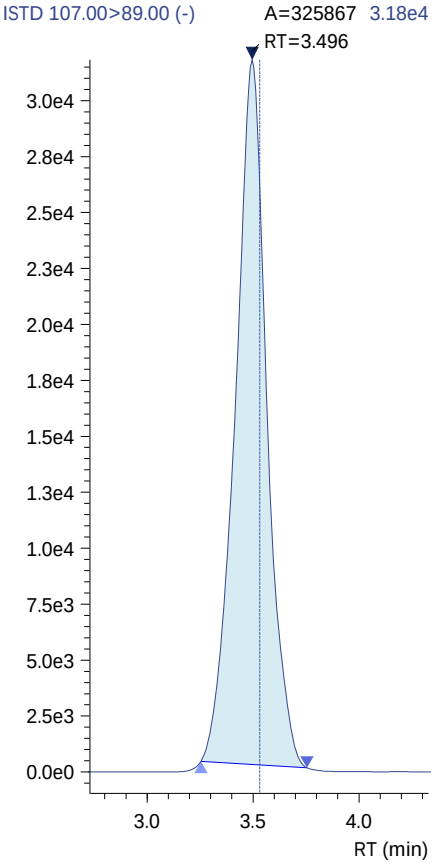
Conc 0.0994
R#1 43.27 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:05:46 PM

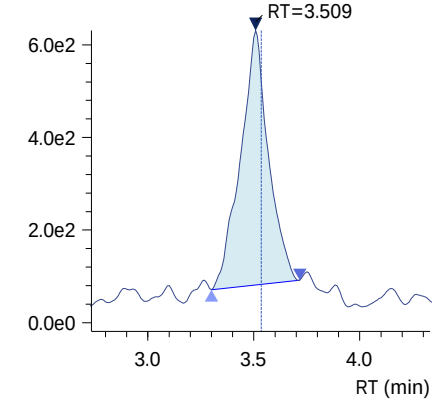
EQ2400230-04ICS

Sample ID: EQ2400230-04
Date Acquired: 5/10/2024 5:32:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-024.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 3

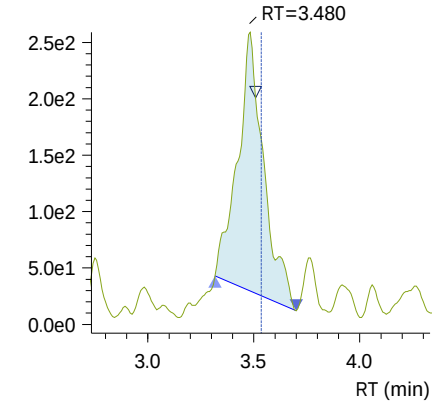
Perchlorate

Conc 0.0994
R#1 38.96 (34.10)

Q 99.00>83.00 (-) A=5047 6.31e2 RT=3.509



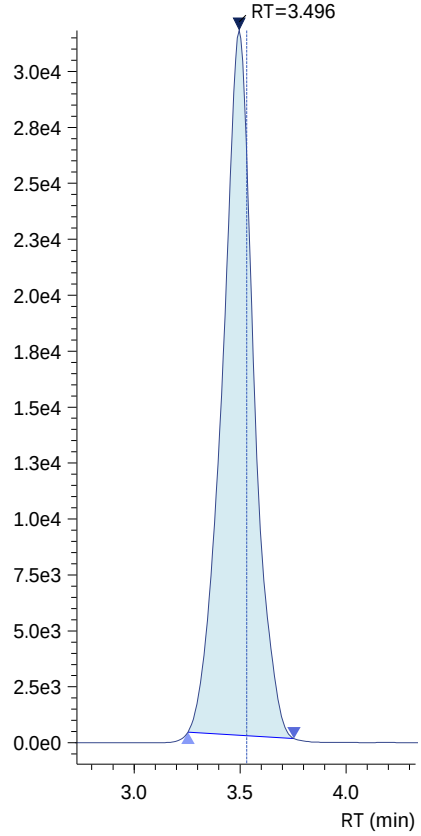
R1 101.00>85.00 (-) A=1966 2.59e2 RT=3.480



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=325867 3.18e4 RT=3.496



Insight Report

Printed at 5/15/2024 3:04:29 PM

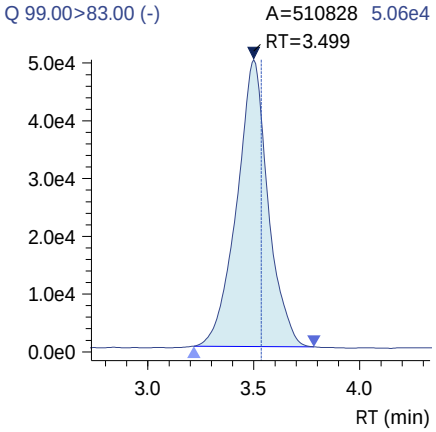
CCV

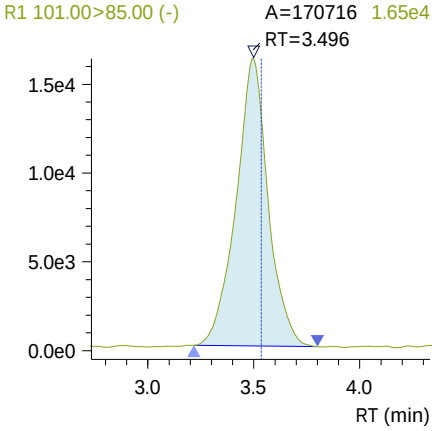
Sample ID: CCV
Date Acquired: 5/10/2024 5:54:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.499	510828	307886	10.6 490	ng/mL	101.00 >85.00	33.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.495	307886	307886	1.0000	ng/mL	----	----	

Perchlorate

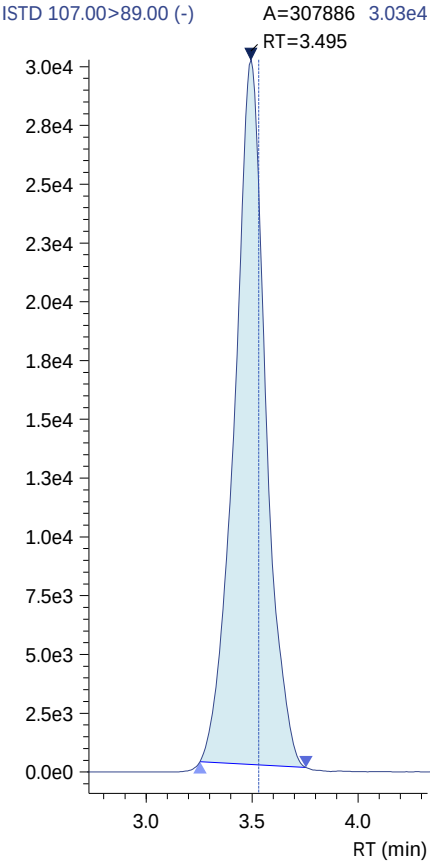
Conc 10.6490
R#1 33.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:04:29 PM

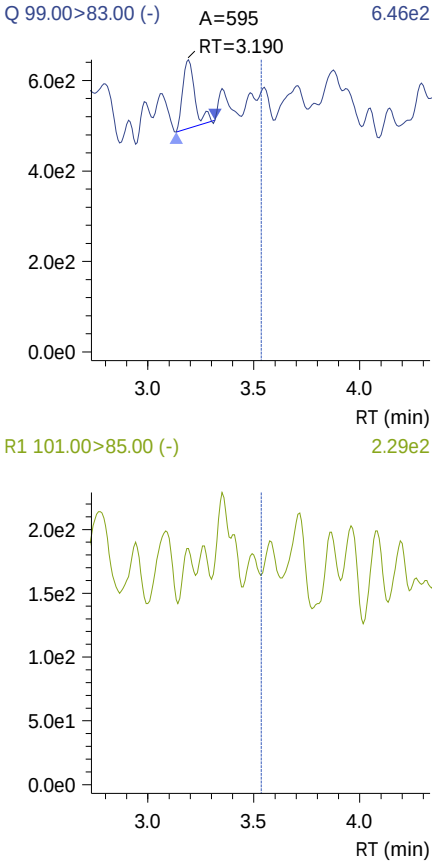
IB

Sample ID: IB
Date Acquired: 5/10/2024 6:00:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240510\20240510-029.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	----	----	297058	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.495	297058	297058	1.0000	ng/mL	----	----	

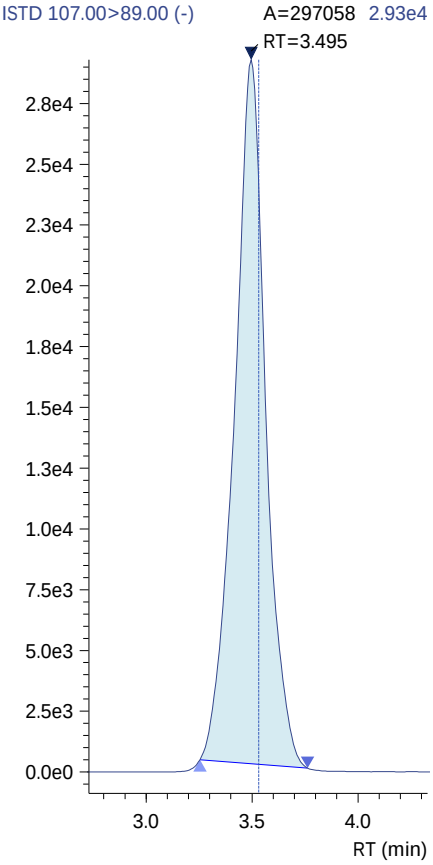
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

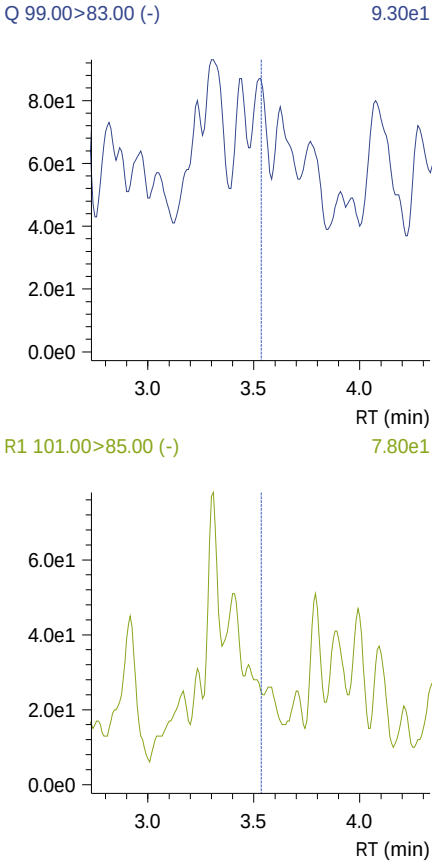
IB

Sample ID: IB
Date Acquired: 5/14/2024 2:54:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-002.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)	----	----	310385	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.494	310385	310385	1.0000	ng/mL	----	----	

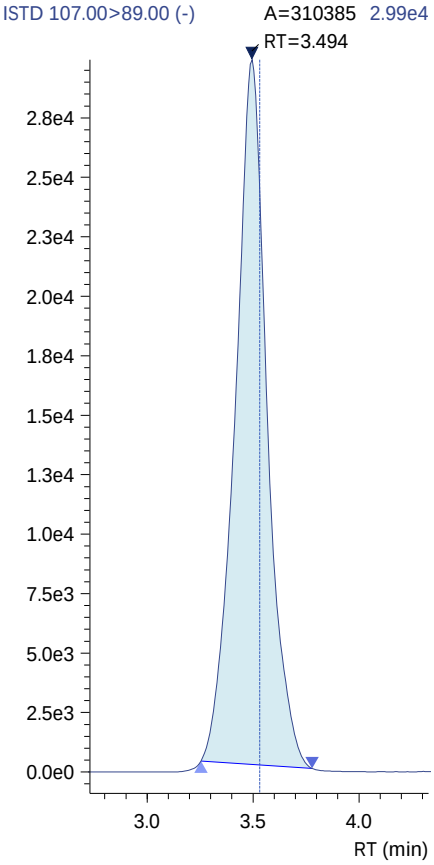
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 9:16:39 AM

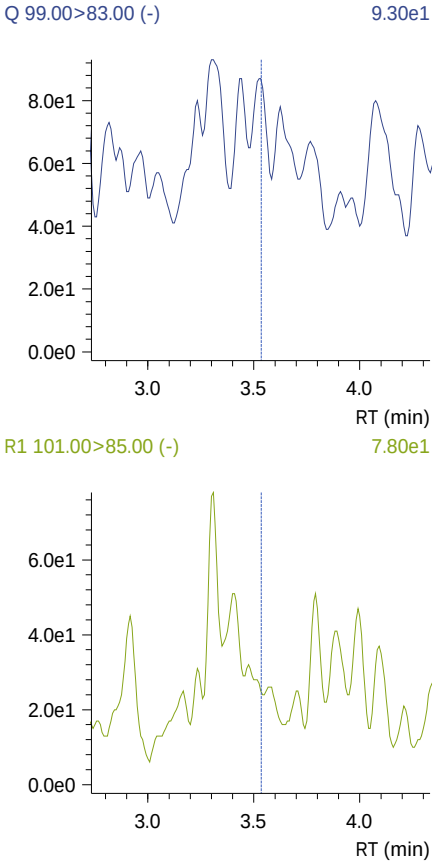
IB

Sample ID: IB
Date Acquired: 5/14/2024 2:54:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-002.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)	----	----	310385	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.494	310385	310385	1.0000	ng/mL	----	----	

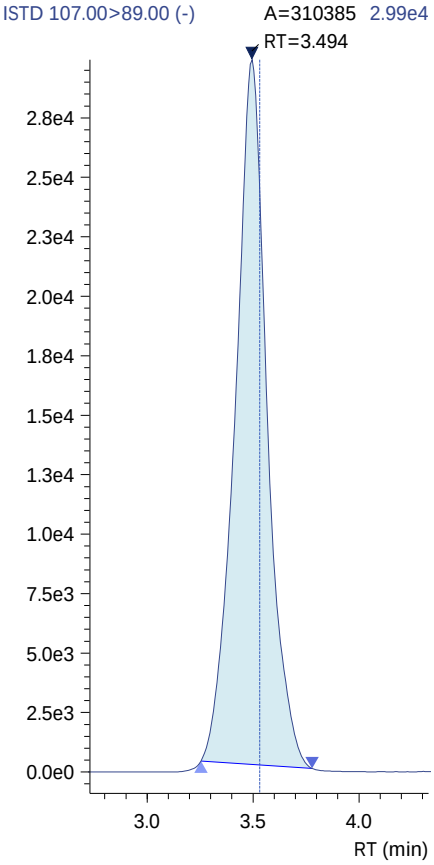
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

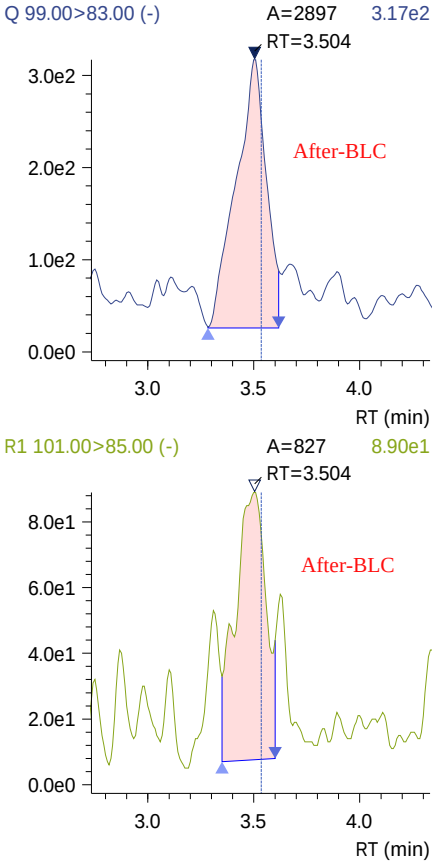
LODV

Sample ID: LODV
Date Acquired: 5/14/2024 3:00:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-003.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	3.504	2897	310710	0.0598	ng/mL	101.00 >85.00	28.56	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.491	310710	310710	1.0000	ng/mL	----	----	

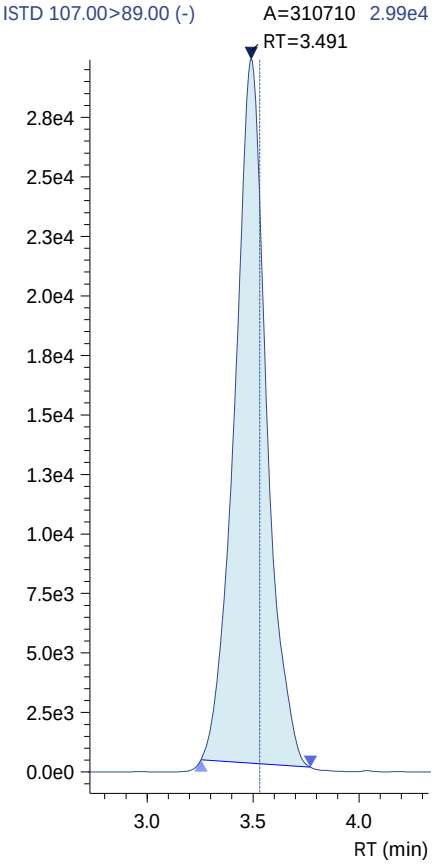
Perchlorate

Conc 0.0598
R#1 28.56 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

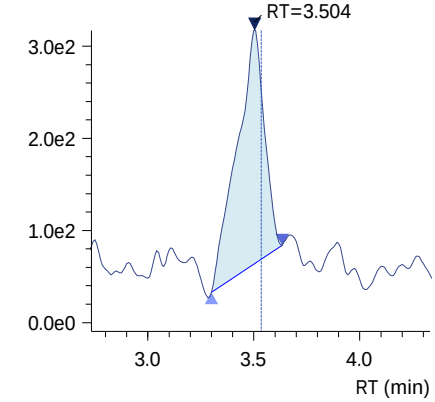
LODV

Sample ID: LODV
Date Acquired: 5/14/2024 3:00:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

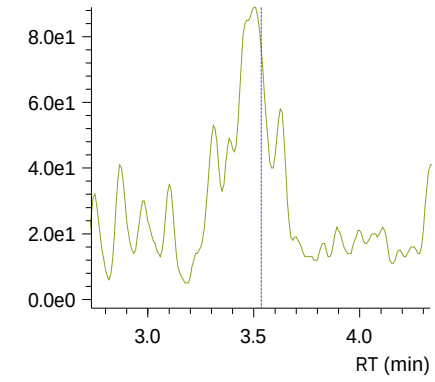
Perchlorate

Conc 0.0476
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2303 3.17e2 RT=3.504



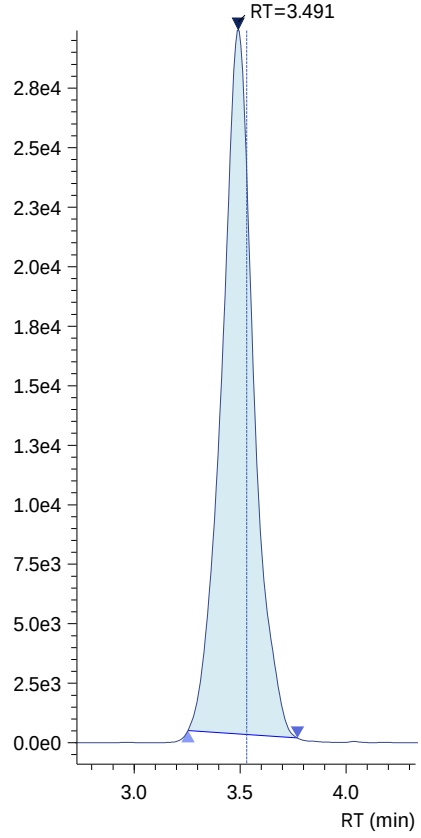
R1 101.00>85.00 (-) 8.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=310710 2.99e4 RT=3.491



Insight Report

Printed at 5/15/2024 2:23:35 PM

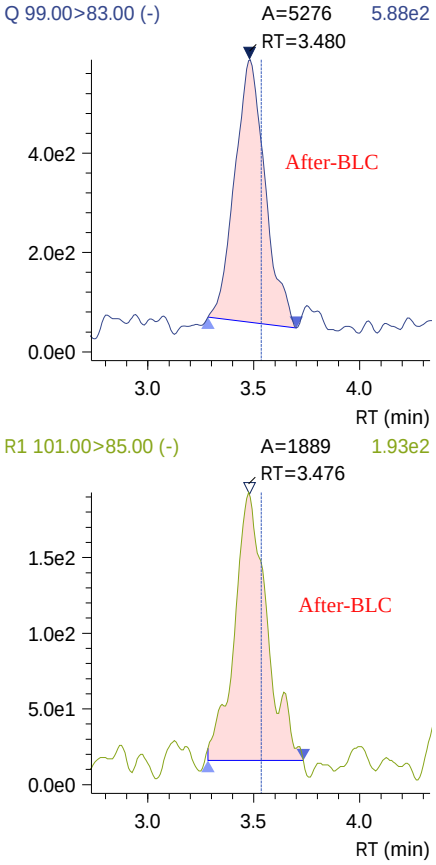
ICS

Sample ID: ICS
Date Acquired: 5/14/2024 3:05:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-004.lcd
Vial: 4 | 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	MI	3.480	5276	349466	0.0969	ng/mL	101.00 >85.00	35.79	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.491	349466	349466	1.0000	ng/mL	----	----	

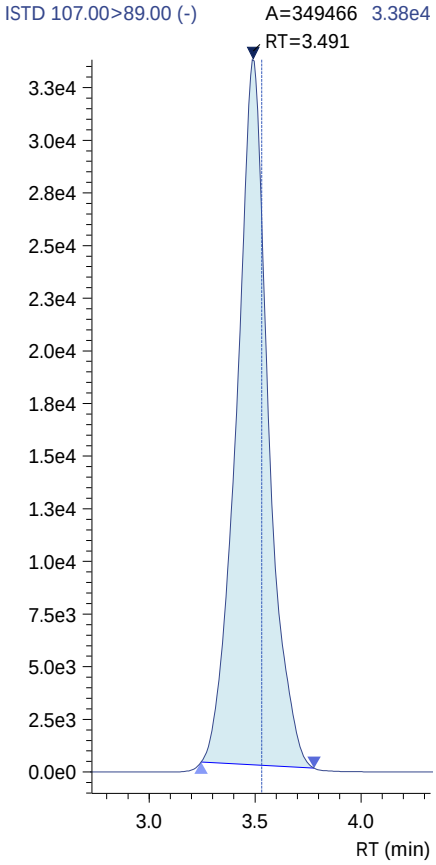
Perchlorate

Conc 0.0969
R#1 35.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

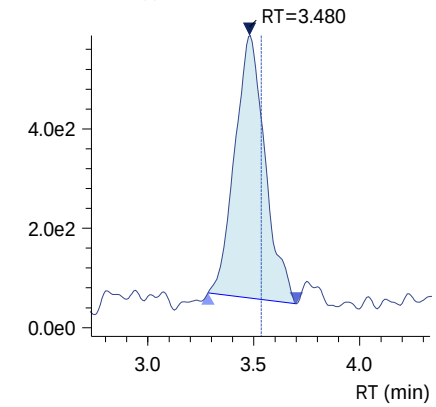
ICS

Sample ID: ICS
Date Acquired: 5/14/2024 3:05:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

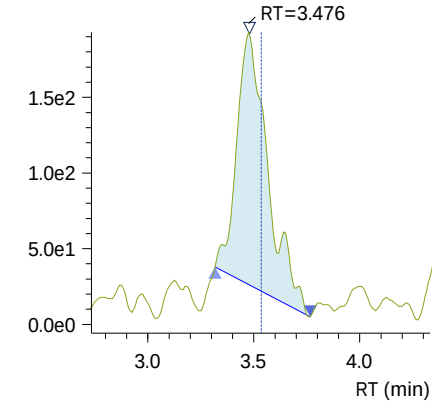
Perchlorate

Conc 0.0969
R#1 32.12 (34.10)

Q 99.00>83.00 (-) A=5276 5.88e2



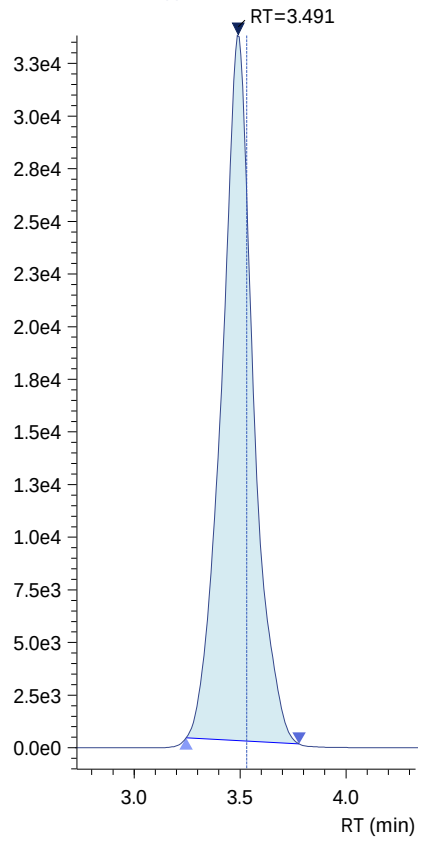
R1 101.00>85.00 (-) A=1695 1.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=349466 3.38e4



Insight Report

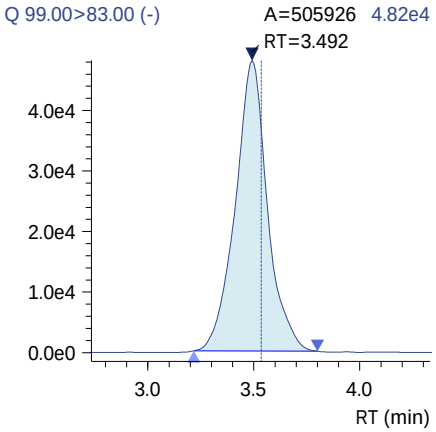
Printed at 5/15/2024 3:03:03 PM

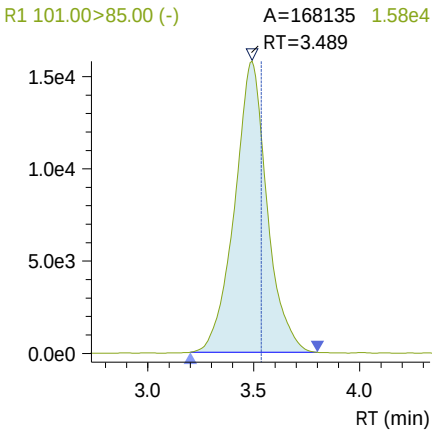
CCV

Sample ID: CCV
Date Acquired: 5/14/2024 3:11:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

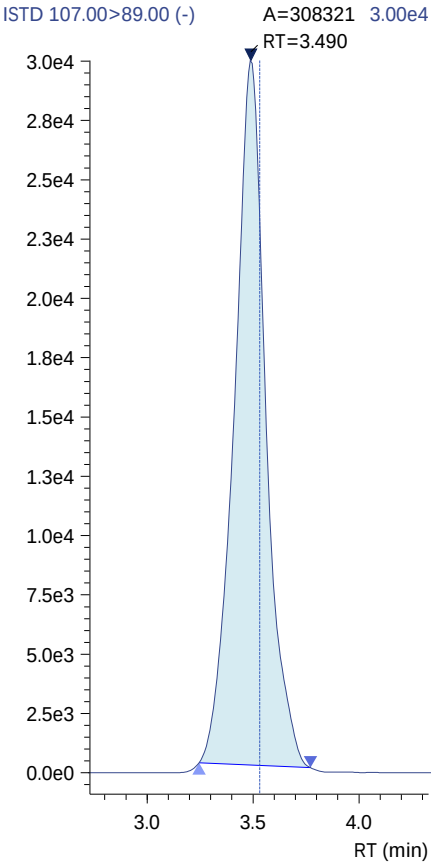
Conc 10.5319
R#1 33.23 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

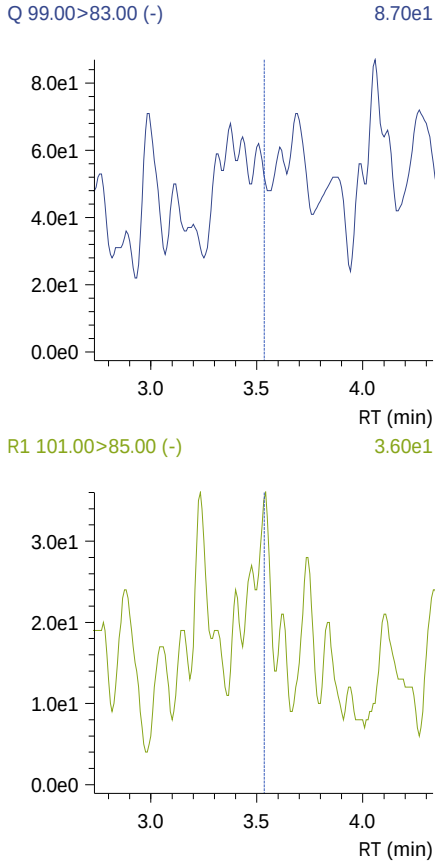
IB

Sample ID: IB
Date Acquired: 5/14/2024 3:16:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-006.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)	----	----	284958	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.488	284958	284958	1.0000	ng/mL	----	----	

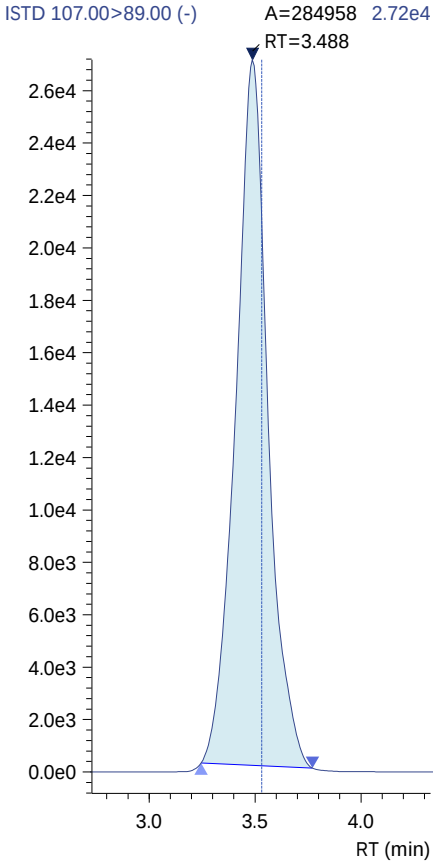
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

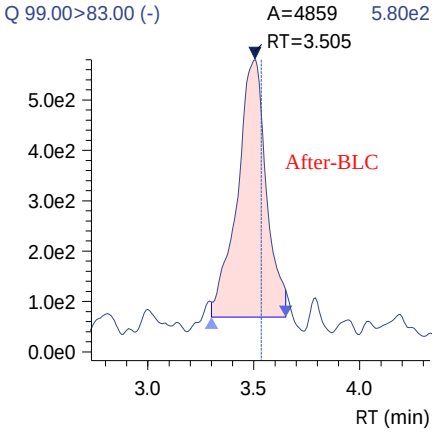
EQ2400230-03DLCS

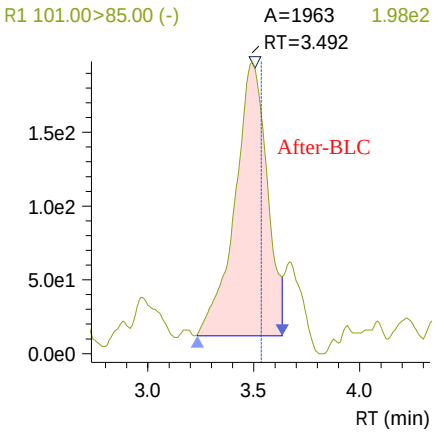
Sample ID: EQ2400230-03
Date Acquired: 5/14/2024 3:33:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-009.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.505	4859	282861	0.1102	ng/mL	101.00 >85.00	40.41	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.487	282861	282861	1.0000	ng/mL	----	----	

Perchlorate

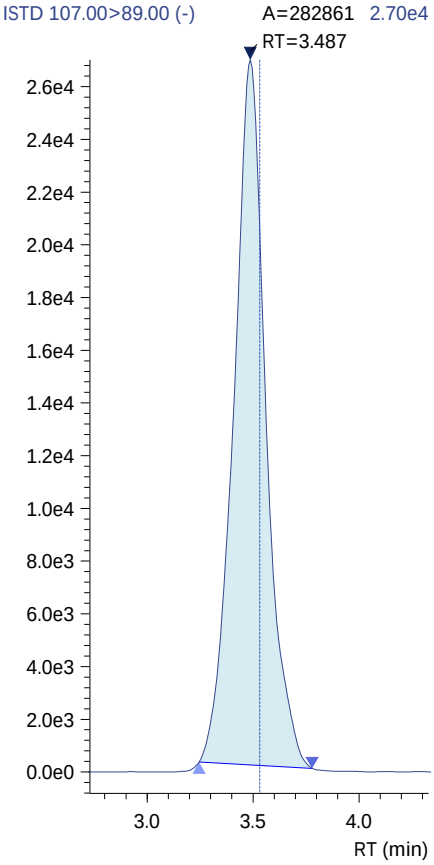
Conc 0.1102
R#1 40.41 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

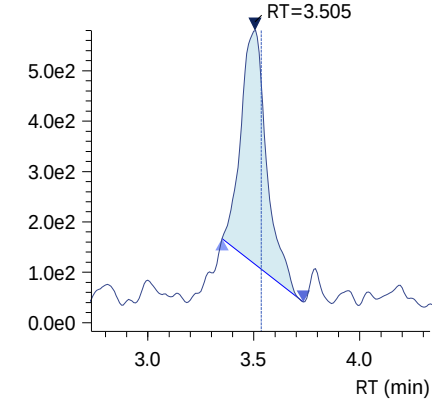
EQ2400230-03DLCS

Sample ID: EQ2400230-03
Date Acquired: 5/14/2024 3:33:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-009.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 3

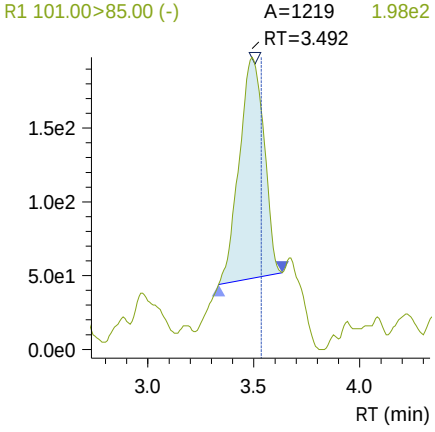
Perchlorate

Conc 0.0884
R#1 31.29 (34.10)

Q 99.00>83.00 (-) A=3896 5.80e2



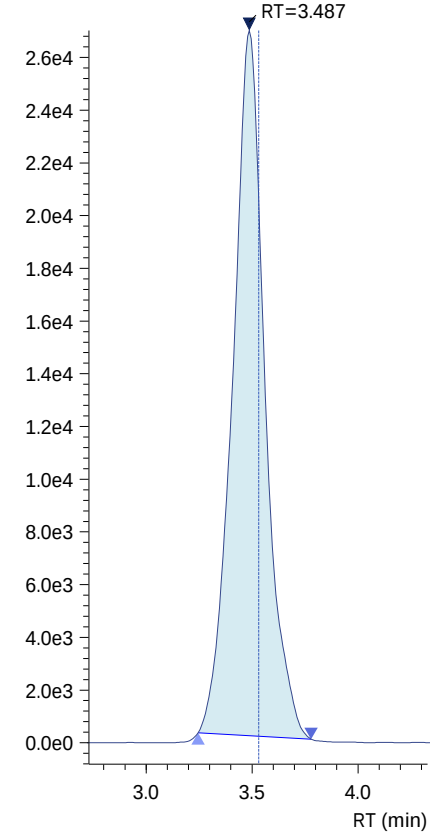
R1 101.00>85.00 (-) A=1219 1.98e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282861 2.70e4



Insight Report

Printed at 5/15/2024 2:23:35 PM

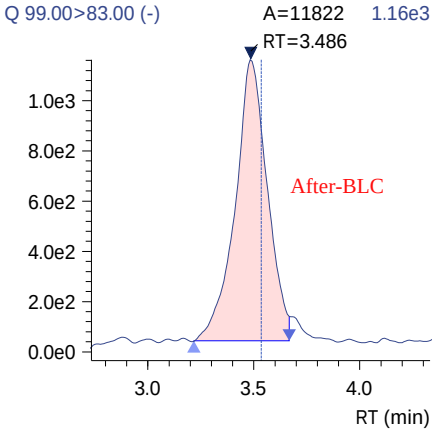
E2400477-001

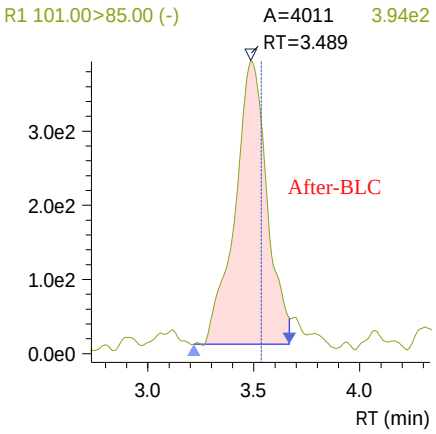
Sample ID: E2400477-001
Date Acquired: 5/14/2024 3:50:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-012.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.486	11822	275778	0.2751	ng/mL	101.00 >85.00	33.92	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.487	275778	275778	1.0000	ng/mL	----	----	

Perchlorate

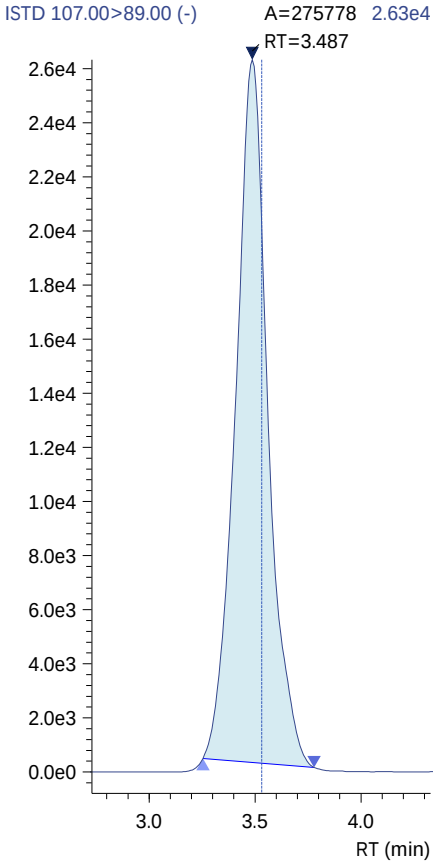
Conc 0.2751
R#1 33.92 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 3:03:03 PM

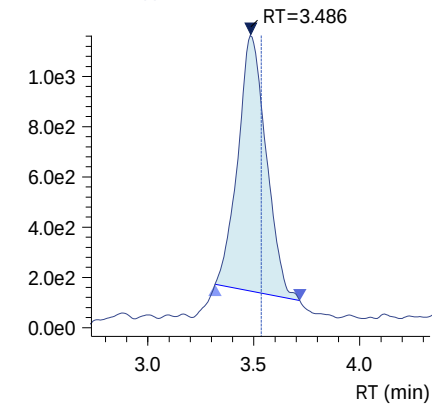
E2400477-001

Sample ID: E2400477-001
Date Acquired: 5/14/2024 3:50:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-012.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 3

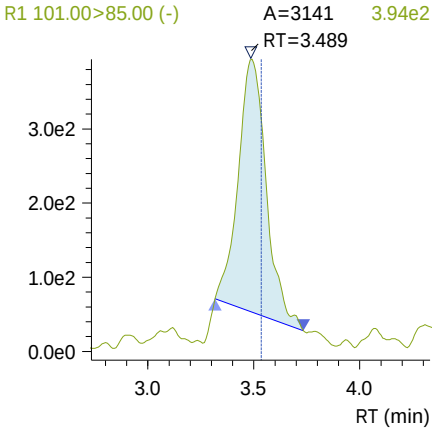
Perchlorate

Conc 0.2207
R#1 33.12 (34.10)

Q 99.00>83.00 (-) A=9484 1.16e3



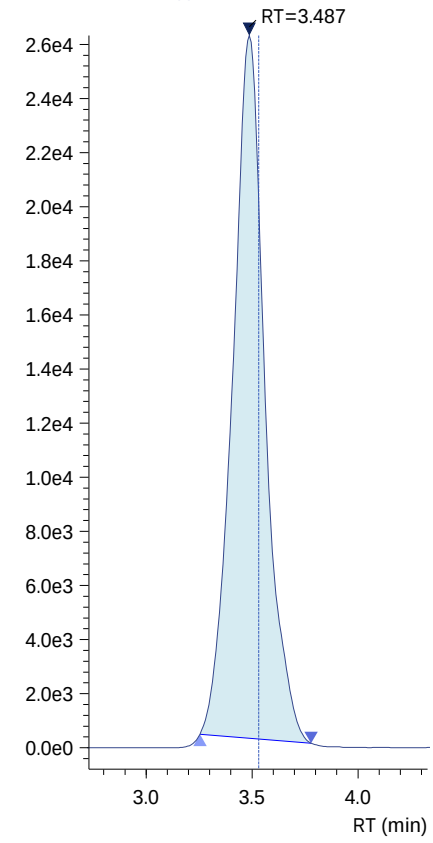
R1 101.00>85.00 (-) A=3141 3.94e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=275778 2.63e4



Insight Report

Printed at 5/15/2024 2:23:35 PM

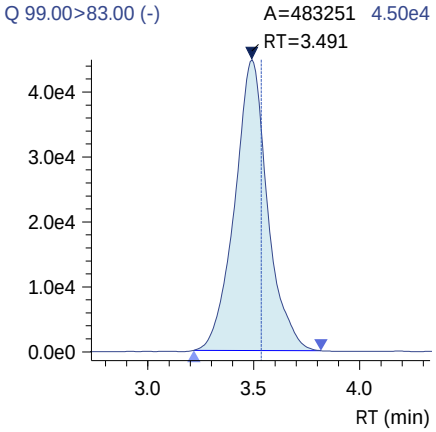
CCV

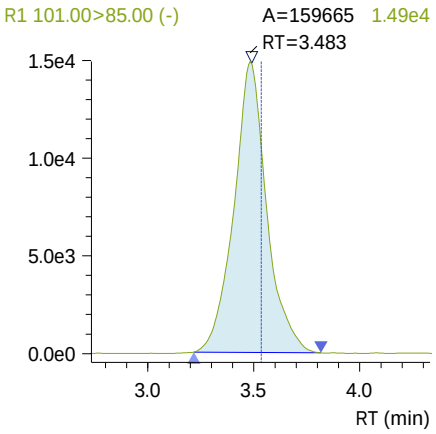
Sample ID: CCV
Date Acquired: 5/14/2024 4:01:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.491	483251	287998	10.7 698	ng/mL	101.00 >85.00	33.04	23.19 -43.08
Sodium Perchlorate -18O4_IS	Auto	3.486	287998	287998	1.0000	ng/mL	----	----	

Perchlorate

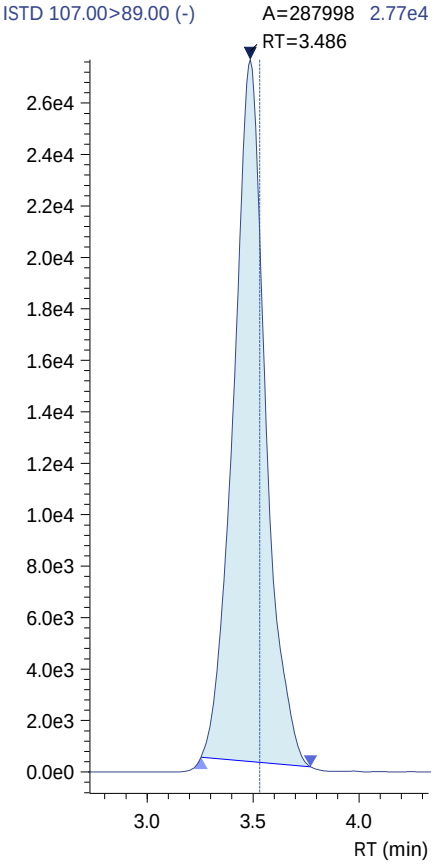
Conc 10.7698
R#1 33.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/15/2024 2:23:35 PM

IB

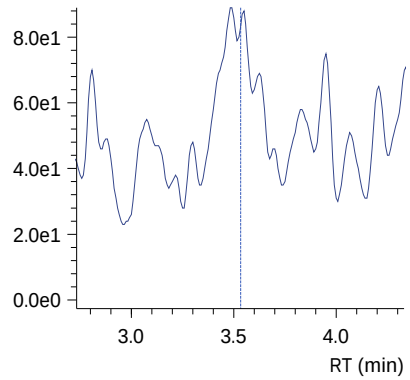
Sample ID: IB
Date Acquired: 5/14/2024 4:06:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240514\20240514-015.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	274692	----	ng/mL	101.00 >85.00	0.00	23.19 -43.08
Sodium Perchlorate-18O4_IS	Auto	3.485	274692	274692	1.0000	ng/mL	----	----	

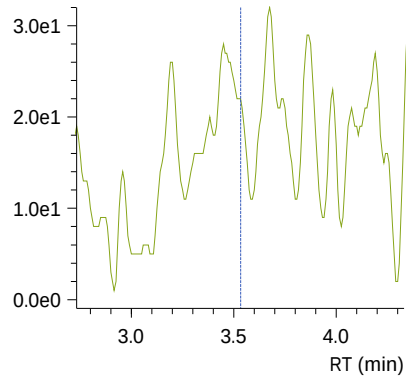
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 8.90e1



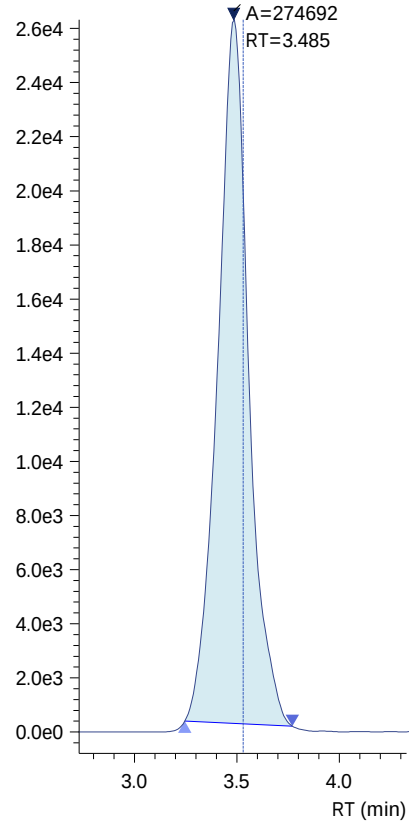
R1 101.00>85.00 (-) 3.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.63e4



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alsglobal.com

WorkOrder: HS24050826

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Jun-2024

WorkOrder: HS24050826

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ALS Group USA, Corp
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  - LH18/24-SP650_051424_BIX
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  - Dates Report
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HS24050826 Wetchem TOC_W INJECT TABLE
HS24050826 Wetchem TOC_W INJECT

HS24050826 Longhorn GW Treatment Plant Weekly Samples cover page

ALS WO# HS24050826

HS24050826 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24050826

10450 Stancliff Rd. Suite 210
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May 29, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24050826**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on May 15, 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: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050826

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050826-01	LH18/24-SP650_051424	Water		14-May-2024 13:00	15-May-2024 09:25	☐
HS24050826-02	LH18/24-SP650_051424_BIX	Water		14-May-2024 13:00	15-May-2024 09:25	☐
HS24050826-03	LH18/24-SP650_051424_AIX	Water		14-May-2024 13:00	15-May-2024 09:25	☐

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050826

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E415.1

Batch ID: R466972

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E350.3

Batch ID: R466915

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R466834

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050826
Sample ID: LH18/24-SP650_051424
Lab ID:HS24050826-01
Collection Date: 14-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)	**1.9**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	16-May-2024 10:00
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: HB
Phosphorus, Total Orthophosphate (As P)	**8.20**	a	**0.500**	**1.25**	**1.25**	**mg/L**	50	15-May-2024 11:46
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**6.10**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	16-May-2024 20:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050826
Sample ID: LH18/24-SP650_051424_BIX
Lab ID:HS24050826-02
Collection Date: 14-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	29-May-2024 10:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050826
Sample ID: LH18/24-SP650_051424_AIX
Lab ID:HS24050826-03
Collection Date: 14-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	29-May-2024 10:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050826

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R466834 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24050826-01	LH18/24-SP650_051424	14 May 2024 13:00			15 May 2024 11:46	50
Batch ID: R466915 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24050826-01	LH18/24-SP650_051424	14 May 2024 13:00			16 May 2024 10:00	1
Batch ID: R466972 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24050826-01	LH18/24-SP650_051424	14 May 2024 13:00			16 May 2024 20:56	1
Batch ID: R467885 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24050826-02	LH18/24-SP650_051424_BIX	14 May 2024 13:00			29 May 2024 10:17	1
HS24050826-03	LH18/24-SP650_051424_AIX	14 May 2024 13:00			29 May 2024 10:17	1

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050826

QC BATCH REPORT

Batch ID: R466834 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R466834** Units: **mg/L** Analysis Date: **15-May-2024 11:46**
Client ID: Run ID: **UV-2450_466834** SeqNo: **8012218** 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-R466834** Units: **mg/L** Analysis Date: **15-May-2024 11:46**
Client ID: Run ID: **UV-2450_466834** SeqNo: **8012217** 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)	0.252	0.0250	0.25	0	101	80 - 120				

MS Sample ID: **HS24050826-01MS** Units: **mg/L** Analysis Date: **15-May-2024 11:46**
Client ID: **LH18/24-SP650_051424** Run ID: **UV-2450_466834** SeqNo: **8012220** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	20.3	1.25	12.5	8.2	96.8	80 - 120				

MSD Sample ID: **HS24050826-01MSD** Units: **mg/L** Analysis Date: **15-May-2024 11:46**
Client ID: **LH18/24-SP650_051424** Run ID: **UV-2450_466834** SeqNo: **8012219** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	20.05	1.25	12.5	8.2	94.8	80 - 120	20.3	1.24	20	

The following samples were analyzed in this batch: HS24050826-01

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050826

QC BATCH REPORT

Batch ID: R466915 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R466915** Units: **mg/L** Analysis Date: **16-May-2024 10:00**
Client ID: Run ID: **WetChem_HS_466915** SeqNo: **8013654** 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-R466915** Units: **mg/L** Analysis Date: **16-May-2024 10:00**
Client ID: Run ID: **WetChem_HS_466915** SeqNo: **8013653** 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)	9.973	0.20	10	0	99.7	80 - 120				

MS Sample ID: **HS24050776-01MS** Units: **mg/L** Analysis Date: **16-May-2024 10:00**
Client ID: Run ID: **WetChem_HS_466915** SeqNo: **8013656** 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)	9.998	0.20	10	0.132	98.7	80 - 120				

MSD Sample ID: **HS24050776-01MSD** Units: **mg/L** Analysis Date: **16-May-2024 10:00**
Client ID: Run ID: **WetChem_HS_466915** SeqNo: **8013655** 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)	10.01	0.20	10	0.132	98.8	80 - 120	9.998	0.09	20	

The following samples were analyzed in this batch: HS24050826-01

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050826

QC BATCH REPORT

Batch ID: R466972 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-05162024** Units: **mg/L** Analysis Date: **16-May-2024 17:41**
Client ID: Run ID: **TOC_04_466972** SeqNo: **8014924** 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-05162024** Units: **mg/L** Analysis Date: **16-May-2024 18:23**
Client ID: Run ID: **TOC_04_466972** SeqNo: **8014925** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.636	1.00	10	0	96.4	85 - 115				

LCSD Sample ID: **LCSD-05162024** Units: **mg/L** Analysis Date: **16-May-2024 18:33**
Client ID: Run ID: **TOC_04_466972** SeqNo: **8014926** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.664	1.00	10	0	96.6	85 - 115	9.636	0.29	20	

MS Sample ID: **HS24050211-01MS** Units: **mg/L** Analysis Date: **16-May-2024 18:53**
Client ID: Run ID: **TOC_04_466972** SeqNo: **8014928** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.46	1.00	10	2.017	94.4	80 - 120				

The following samples were analyzed in this batch: HS24050826-01

ALS Houston, US Date: 29-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24050826**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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: 29-May-24

Sample Receipt Checklist

Work Order ID: HS24050826 **Date/Time Received:** 15-May-2024 09:25

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Jacob Coronado (eSignature) 15-May-2024 11:17 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: w 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 ☐	
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):	2.8uc/2.9c	ir31
Cooler(s)/Kit(s):	49134	
Date/Time sample(s) sent to storage:	05/15/2024 1118	

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:

HS24050826

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 Guin

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_051424	Water	05/14/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_051424	Water	05/14/24 / 13:00		1			X								NONE	
LH18/24–SP650_051424_BIX	Water	05/14/24 / 13:00		1				X							NONE	
LH18/24- SP650_051424_AIX	Water	05/14/24 / 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	05/14/24	13:30							SM	05/15/24	09:25

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

Cooler# 4 4 1 3 4 Temp 4.1 C 2.8 C 2.1

(Word) S:\t-ces\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

U91134

CUSTODY SEAL

Date: 5/14/24 Time: 1330
Name: Scott Beesinger
Company: BHATE

Seal Broken By:
Date: 05/15/24

U91134 MAY 15 2024

U91134

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

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 93545 - JG
RMA:

FedEx Express

FedEx TRK# 0221 6230 3000 9545

WED - 15 MAY AA
PRIORITY OVERNIGHT

77099
TX-US
IAH

AB SGRA

4238674 14May2024 GGCA 5B1G4/C458/FF8B

May 28, 2024 Service Request No:E2400498

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050826

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 15, 2024
For your reference, these analyses have been assigned our service request number **E2400498.**

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400498
Project:	HS24050826	**Date Received:**	05/15/24
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 II. 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 05/15/24.

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:

EQ2400248: 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:**E2400498
Project: HS24050826

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400498-001	LH18/24-SP650_051424_BIX	4/14/2024	1300
E2400498-002	LH18/24-SP650_051424_AIX	4/14/2024	1300

Service Request Summary

Folder #: **E2400498**
Client Name: ALS Environmental - US
Project Name: HS24050826
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: 05/15/24
Internal Due Date: 5/16/2024
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 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400498-001	LH18/24-SP650_051424_BIX	Water	04/14/24 1300	**IV**
E2400498-002	LH18/24-SP650_051424_AIX	Water	04/14/24 1300	**IV**

Service Request Summary

Folder #:	**E2400498**
Client Name:	ALS Environmental - US
Project Name:	HS24050826
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:	05/15/24
Internal Due Date:	5/16/2024
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 1A

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
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

E2400498 5
ALS Group USA, Corp.
HS24050826

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25656**

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:	HS24050826
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050826-02**	**LH18/24-SP650_051424_BIX**	**Water**	**14 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 May 2024
2.	**HS24050826-03**	**LH18/24-SP650_051424_AIX**	**Water**	**14 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
24 HR TAT on Perchlorate

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/15/24 0925

Cooler ID(s): _____ Temperature(s): _____

E2400498
ALS Group USA, Corp.
HS24060826

5

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Sample Receipt Checklist

Work Order ID: HS24050826 **Date/Time received:** 15 May 2024 09:25

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 15 May 2024 11:17 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), 49134

Date/Time sample(s) sent to storage: 05/15/2024 1118

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
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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 438993 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/23/24 10:48

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400483-001	2405020849 B650-EFF-1	.01	6850/ClO4 DOD			Water	10mL	
2	E2400483-002	2405020912 B650-INF-1	.01	6850/ClO4 DOD			Water	10mL	
3	E2400492-001	2405061346Y BLM-36-350	.01	6850/ClO4 DOD			Water	10mL	
4	E2400492-002	2405060951C 700-A-253	.01	6850/ClO4 DOD			Water	10mL	
5	E2400492-003	2405061420C 700-J-200	.01	6850/ClO4 DOD			Water	10mL	
6	E2400492-004	2405071405Y 700-H-670	.01	6850/ClO4 DOD			Water	10mL	
7	E2400493-001	2405081426C 700-D-186	.01	6850/ClO4 DOD			Water	10mL	
8	E2400498-001	LH18/24-SP650_051424_BIX	.01	6850/ClO4 DOD			Water	10mL	
9	E2400498-002	LH18/24-SP650_051424_AIX	.01	6850/ClO4 DOD			Water	10mL	
10	E2400538-001	5*14-01 - Duct Rinsate	.01	6850/ClO4			Water	10mL	
11	EQ2400248-01	MB		6850/ClO4 DOD			Liquid	10mL	
12	EQ2400248-02	LCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2400248-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400248-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400483-001	100.00µL	E2400483-002	100.00µL	E2400492-001	100.00µL	E2400492-002	100.00µL	E2400492-003	100.00µL	E2400492-004	100.00µL
E2400493-001	100.00µL	E2400498-001	100.00µL	E2400498-002	100.00µL	E2400538-001	100.00µL	EQ2400248-01	100.00µL	EQ2400248-01	100.00µL
EQ2400248-02	100.00µL	EQ2400248-02	100.00µL	EQ2400248-03	100.00µL	EQ2400248-03	100.00µL	EQ2400248-04	100.00µL	EQ2400248-04	100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400248-04	20.00µL	EQ2400248-04	20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400248-02	100.00µL	EQ2400248-02	100.00µL	EQ2400248-03	100.00µL	EQ2400248-03	100.00µL	EQ2400248-04	100.00µL	EQ2400248-04	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 (235266)

Preparation Information Benchsheet

Prep Run#: 438993 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/23/24 10:48

Preparation Steps

Step: Preparation
Started: 5/23/24 10:48
Finished: 5/23/24 12:00
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:**	E2400498
Project:	HS24050826	**Date Collected:**	4/14/24 1300
Sample Matrix:	Water	**Date Received:**	5/15/24
Sample Name:	LH18/24-SP650_051424_BIX	**Units:**	µg/L
Lab Code:	E2400498-001	**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	**43.0**		1.00	0.500	0.250	10	5/23/24	5/24/24 09:46	438993	841958	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	4/14/24 1300
Sample Matrix:	Water	**Date Received:**	5/15/24
Sample Name:	LH18/24-SP650_051424_AIX	**Units:**	µg/L
Lab Code:	E2400498-002	**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	**11.7**		0.200	0.100	0.0500	2	5/23/24	5/24/24 09:51	438993	841958	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400248-01	**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	5/23/24	5/23/24 15:51	438993	841830	

Accuracy & Precision

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826
Sample Matrix: Water

Service Request: E2400498
Date Analyzed: 5/23/24

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: 438993

	Lab Control Sample EQ2400248-02			Duplicate Lab Control Sample EQ2400248-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0931	0.100	93	0.109	0.100	109	84 - 119	15	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:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400248-02	**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	**0.0931**	J	0.100	0.0500	0.0250	1	5/23/24	5/23/24 15:57	438993	841830	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400248-03	**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	**0.109**		0.100	0.0500	0.0250	1	5/23/24	5/23/24 16:02	438993	841830	

HS24050826 E2400498 Perch Level IV Final Report

ALS WO# HS24050826

May 28, 2024 Service Request No:E2400498

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050826

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 15, 2024
For your reference, these analyses have been assigned our service request number **E2400498.**

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
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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400498
Project:	HS24050826	**Date Received:**	05/15/24
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 05/15/24.

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:

EQ2400248: 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:**E2400498
Project: HS24050826

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400498-001	LH18/24-SP650_051424_BIX	4/14/2024	1300
E2400498-002	LH18/24-SP650_051424_AIX	4/14/2024	1300

Service Request Summary

Folder #: **E2400498**
Client Name: ALS Environmental - US
Project Name: HS24050826
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: 05/15/24
Internal Due Date: 5/16/2024
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 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400498-001	LH18/24-SP650_051424_BIX	Water	04/14/24 1300	**IV**
E2400498-002	LH18/24-SP650_051424_AIX	Water	04/14/24 1300	**IV**

Service Request Summary

Folder #: **E2400498**
Client Name: ALS Environmental - US
Project Name: HS24050826
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: 05/15/24
Internal Due Date: 5/16/2024
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 1A
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
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

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E2400498 5
ALS Group USA, Corp.
HS24050826

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25656**

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:	HS24050826
TSR:	Houston House Acct

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID	MATRIX	COLLECT DATE / DUE DATE
1.	**HS24050826-02**	**LH18/24-SP650_051424_BIX**	**Water**	**14 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 May 2024
2.	**HS24050826-03**	**LH18/24-SP650_051424_AIX**	**Water**	**14 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
24 HR TAT on Perchlorate

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/15/24 0925

Cooler ID(s): _____ Temperature(s): _____

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HS24050826

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Sample Receipt Checklist

Work Order ID: HS24050826 **Date/Time received:** 15 May 2024 09:25

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 15 May 2024 11:17 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **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):
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): 2.8uc/2.9c ir31

Cooler Information: 1 Cooler(s), 49134

Date/Time sample(s) sent to storage: 05/15/2024 1118

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#: 438993 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/23/24 10:48

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400483-001	2405020849 B650-EFF-1	.01	6850/ClO4 DOD			Water	10mL	
2	E2400483-002	2405020912 B650-INF-1	.01	6850/ClO4 DOD			Water	10mL	
3	E2400492-001	2405061346Y BLM-36-350	.01	6850/ClO4 DOD			Water	10mL	
4	E2400492-002	2405060951C 700-A-253	.01	6850/ClO4 DOD			Water	10mL	
5	E2400492-003	2405061420C 700-J-200	.01	6850/ClO4 DOD			Water	10mL	
6	E2400492-004	2405071405Y 700-H-670	.01	6850/ClO4 DOD			Water	10mL	
7	E2400493-001	2405081426C 700-D-186	.01	6850/ClO4 DOD			Water	10mL	
8	E2400498-001	LH18/24-SP650_051424_BIX	.01	6850/ClO4 DOD			Water	10mL	
9	E2400498-002	LH18/24-SP650_051424_AIX	.01	6850/ClO4 DOD			Water	10mL	
10	E2400538-001	5*14-01 - Duct Rinsate	.01	6850/ClO4			Water	10mL	
11	EQ2400248-01	MB		6850/ClO4 DOD			Liquid	10mL	
12	EQ2400248-02	LCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2400248-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400248-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400483-001	100.00µL	E2400483-002	100.00µL	E2400492-001	100.00µL	E2400492-002	100.00µL	E2400492-003	100.00µL	E2400492-004	100.00µL
E2400493-001	100.00µL	E2400498-001	100.00µL	E2400498-002	100.00µL	E2400538-001	100.00µL	EQ2400248-01	100.00µL	EQ2400248-01	100.00µL
EQ2400248-02	100.00µL	EQ2400248-02	100.00µL	EQ2400248-03	100.00µL	EQ2400248-03	100.00µL	EQ2400248-04	100.00µL	EQ2400248-04	100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400248-04	20.00µL	EQ2400248-04	20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400248-02	100.00µL	EQ2400248-02	100.00µL	EQ2400248-03	100.00µL	EQ2400248-03	100.00µL	EQ2400248-04	100.00µL	EQ2400248-04	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 (235266)

Preparation Information Benchsheet

Prep Run#: 438993 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/23/24 10:48

Preparation Steps

Step: Preparation
Started: 5/23/24 10:48
Finished: 5/23/24 12:00
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:**	E2400498
Project:	HS24050826	**Date Collected:**	4/14/24 1300
Sample Matrix:	Water	**Date Received:**	5/15/24
Sample Name:	LH18/24-SP650_051424_BIX	**Units:**	µg/L
Lab Code:	E2400498-001	**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	**43.0**		1.00	0.500	0.250	10	5/23/24	5/24/24 09:46	438993	841958	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	4/14/24 1300
Sample Matrix:	Water	**Date Received:**	5/15/24
Sample Name:	LH18/24-SP650_051424_AIX	**Units:**	µg/L
Lab Code:	E2400498-002	**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	**11.7**		0.200	0.100	0.0500	2	5/23/24	5/24/24 09:51	438993	841958	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400248-01	**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	5/23/24	5/23/24 15:51	438993	841830	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/23/24
Sample Matrix:	Water		

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	438993

	Lab Control Sample EQ2400248-02			Duplicate Lab Control Sample EQ2400248-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0931	0.100	93	0.109	0.100	109	84 - 119	15	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:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400248-02	**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	**0.0931**	J	0.100	0.0500	0.0250	1	5/23/24	5/23/24 15:57	438993	841830	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400248-03	**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	**0.109**		0.100	0.0500	0.0250	1	5/23/24	5/23/24 16:02	438993	841830	

ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration

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Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

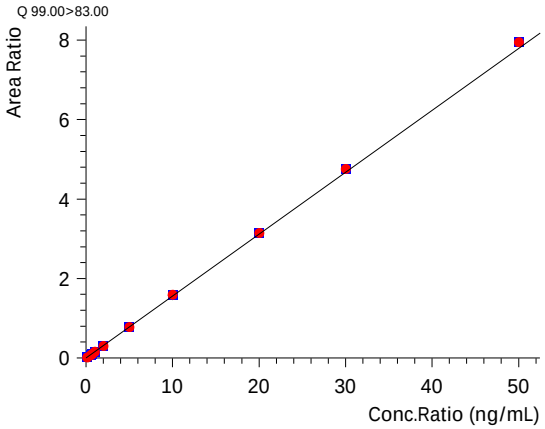
Insight Calibration Report

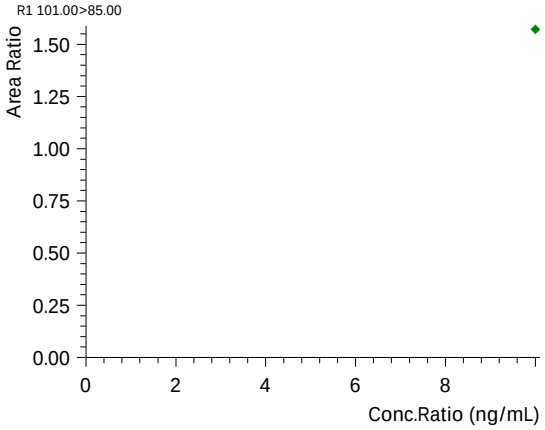
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

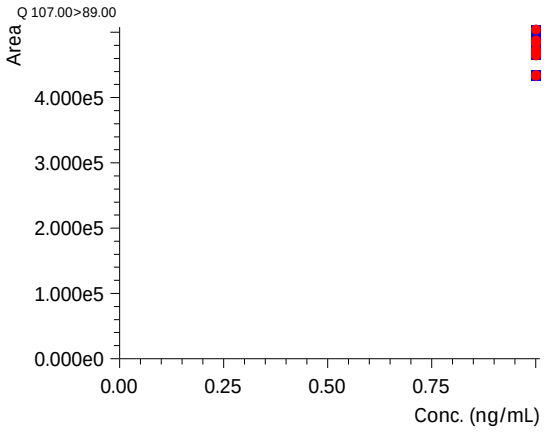
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

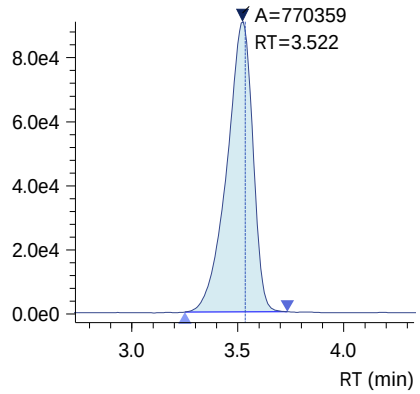
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

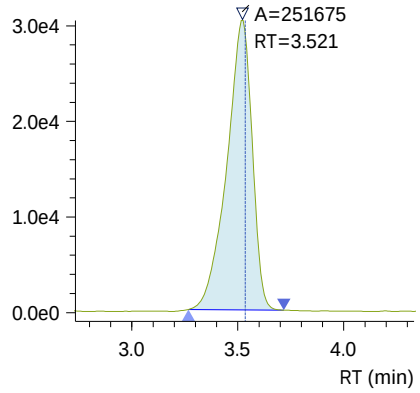
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



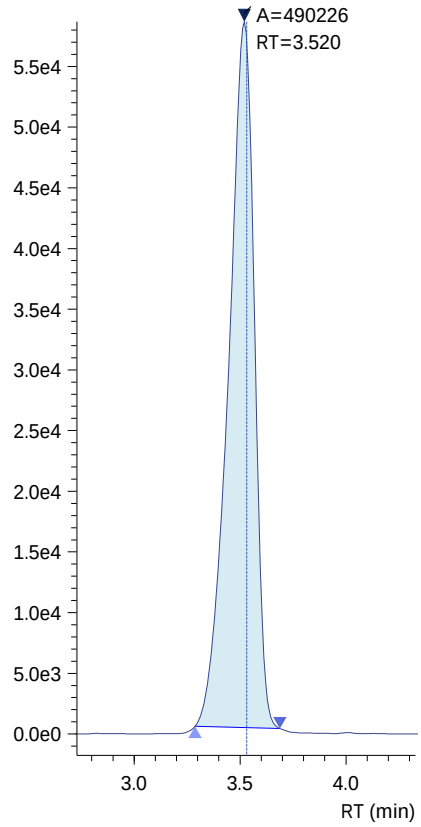
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

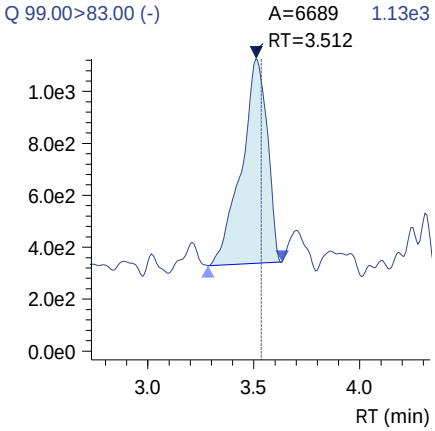
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

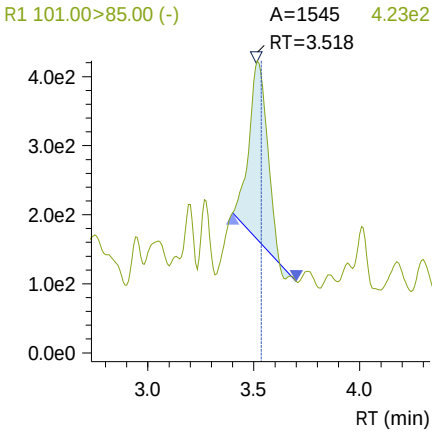
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

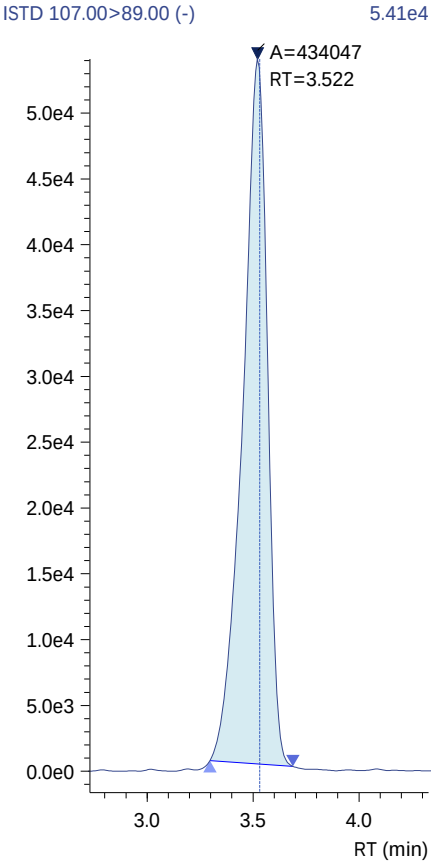
Conc 0.0989
R#1 23.10 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

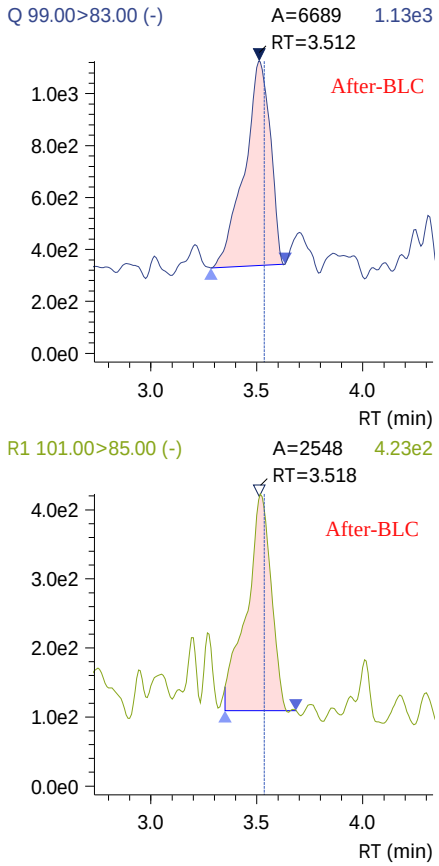
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.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	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

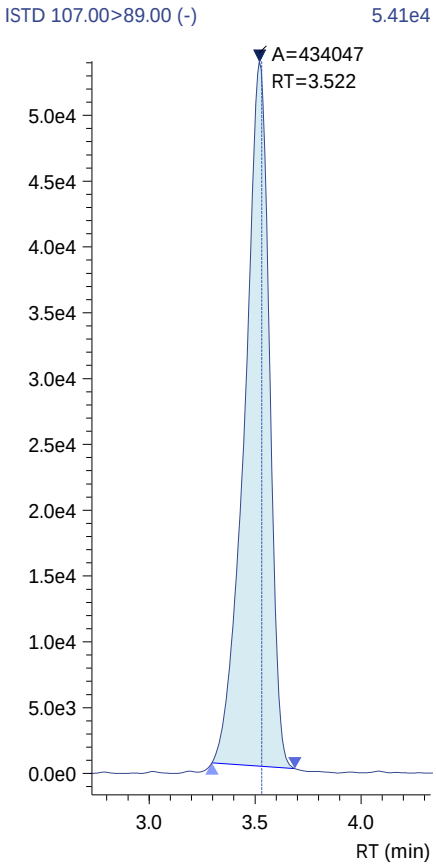
Perchlorate

Conc 0.0989
R#1 38.09 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

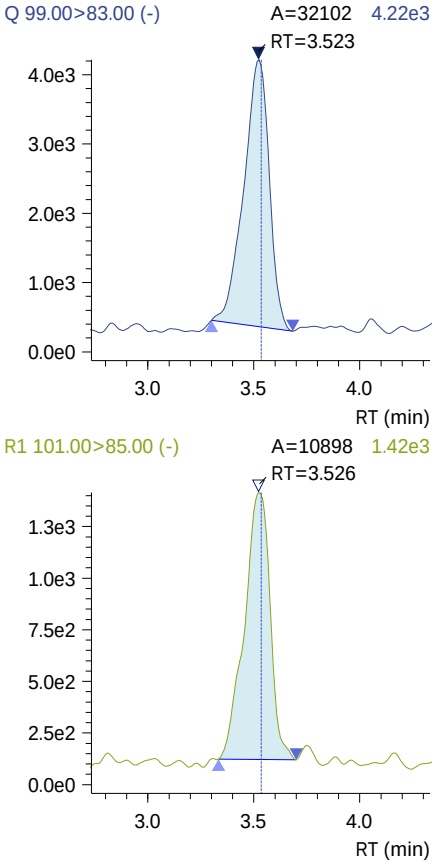
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.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	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

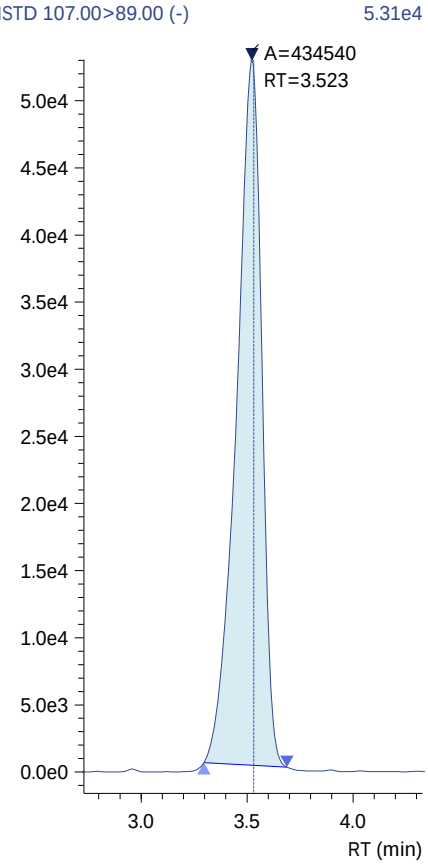
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:05:16 AM

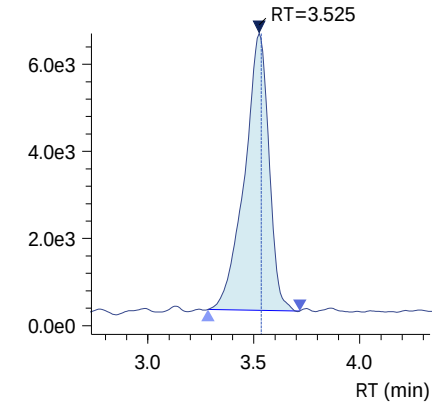
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

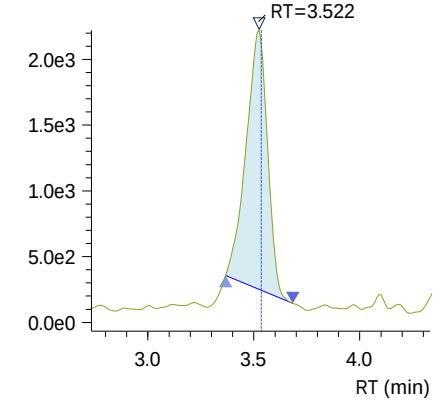
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



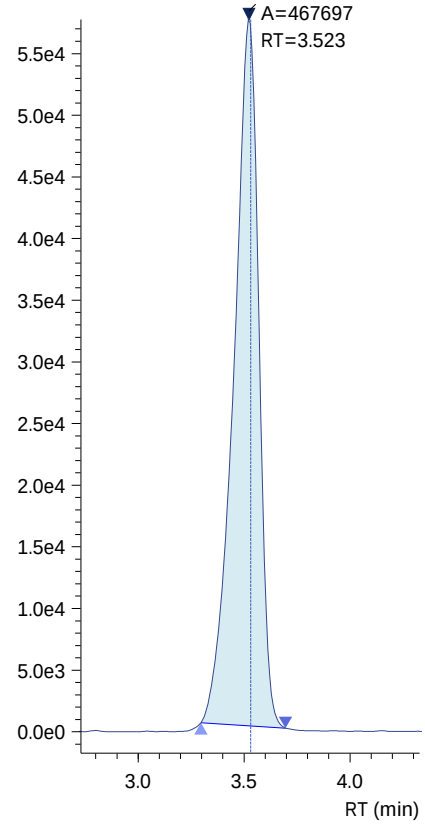
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

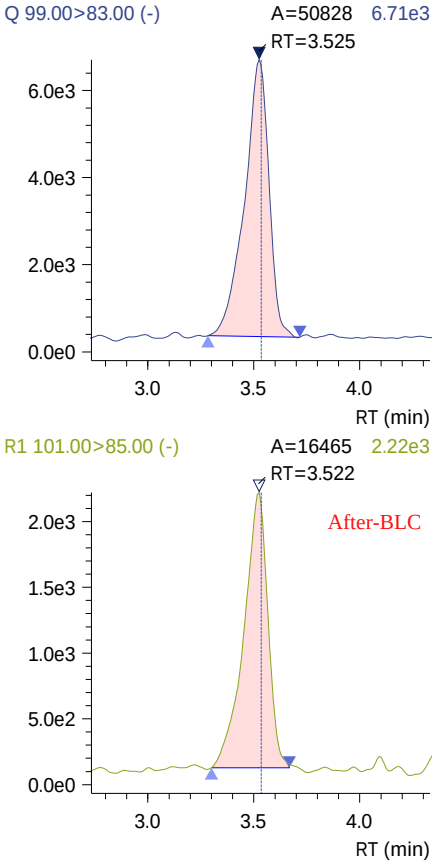
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.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	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

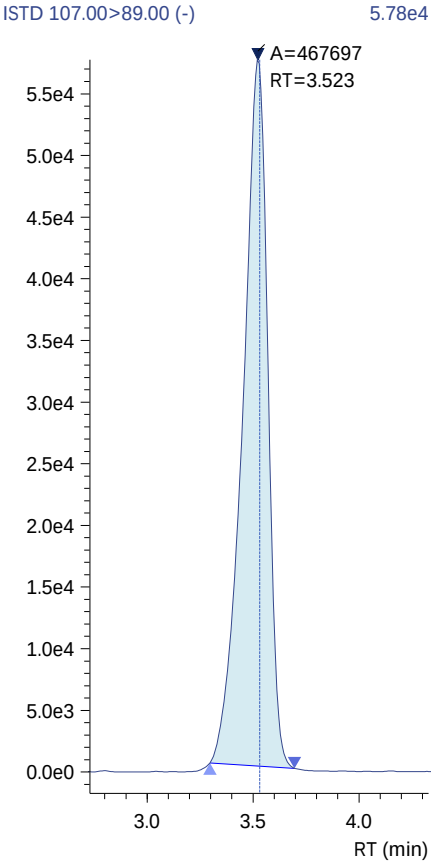
Perchlorate

Conc 0.6975
R#1 32.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

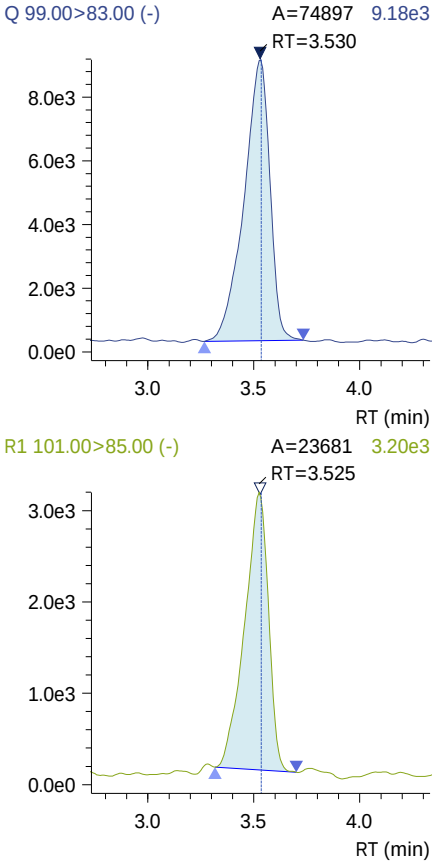
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.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	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

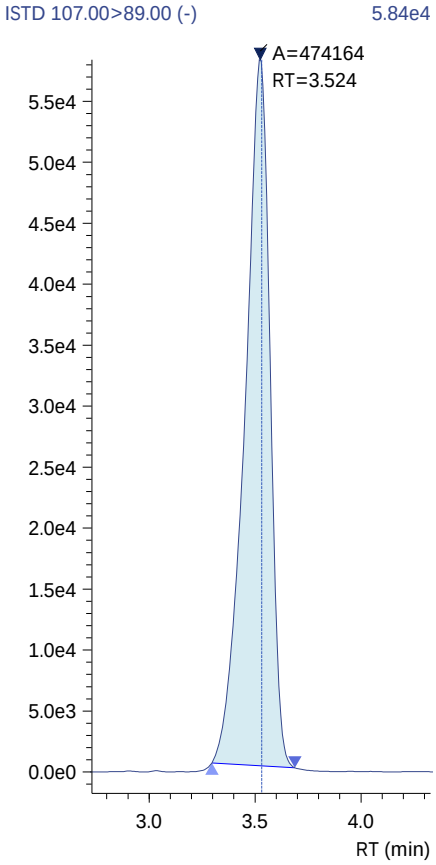
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

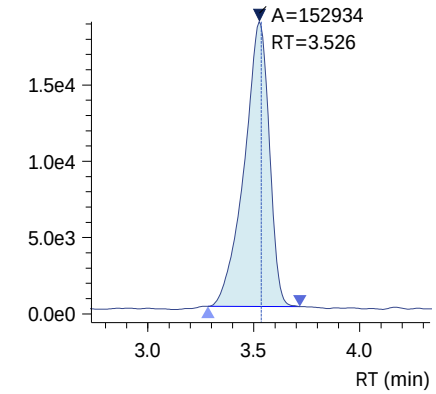
Perchlorate ICAL 5

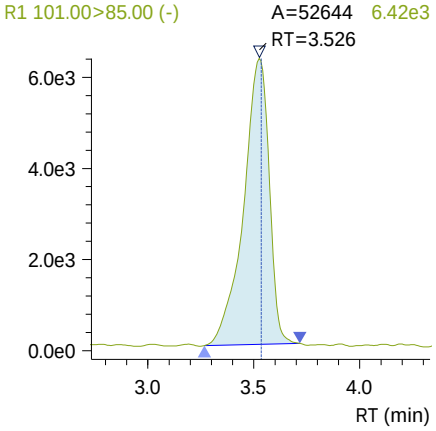
Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

Perchlorate

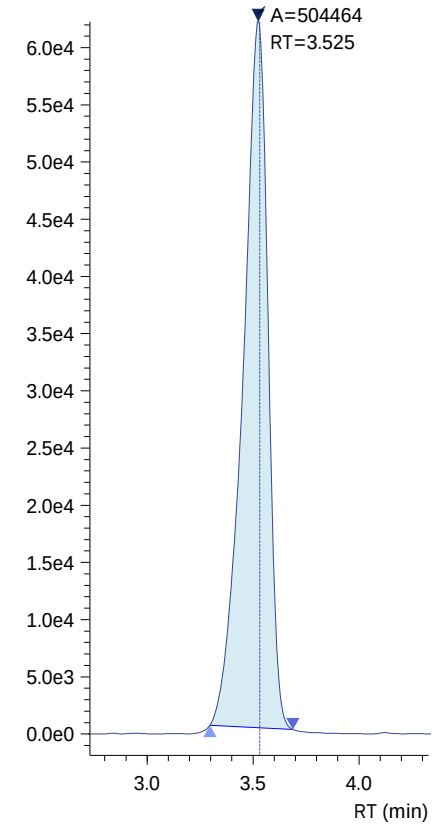
Conc 1.9458
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

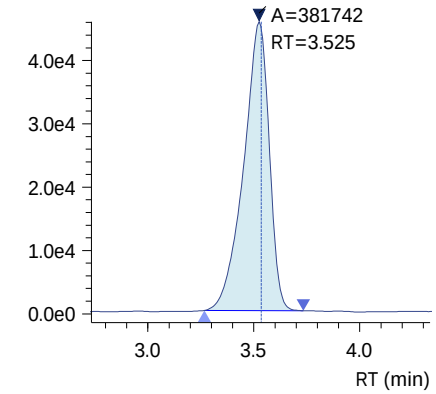
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

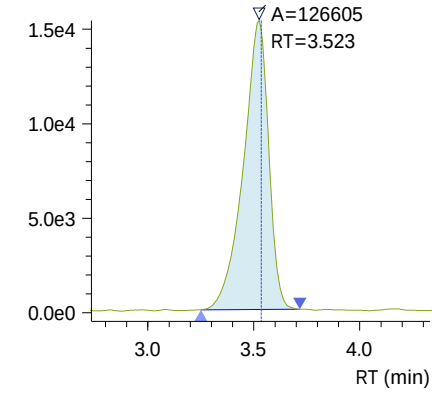
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



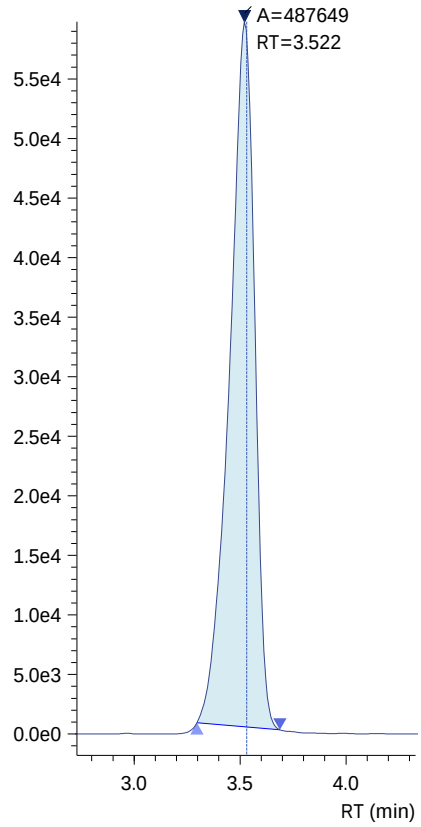
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

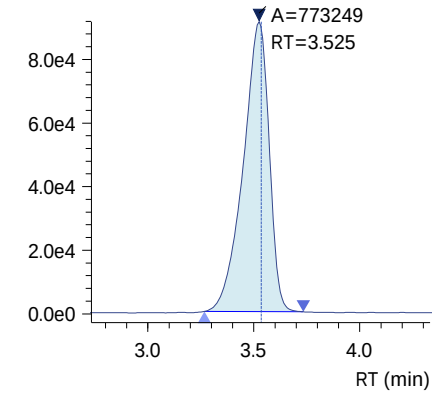
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

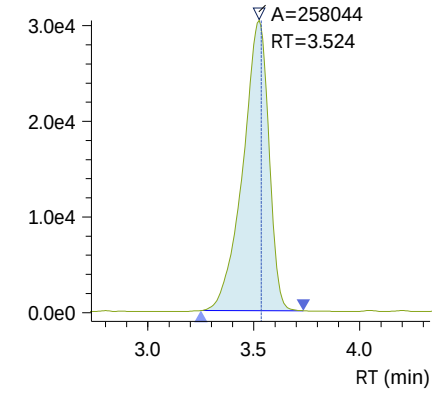
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



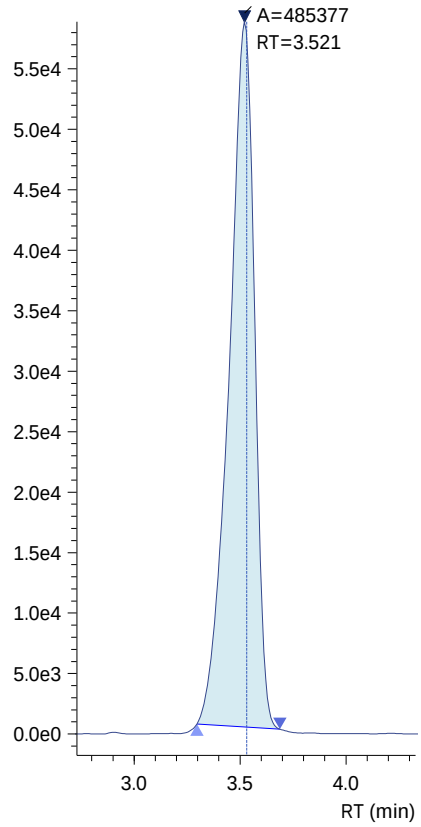
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

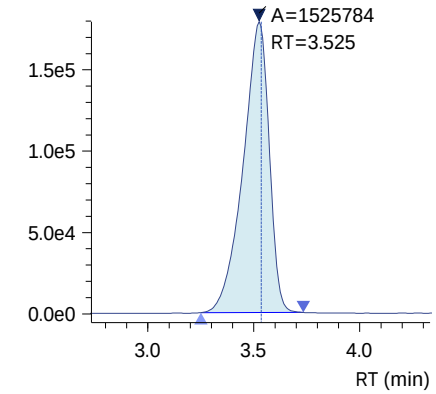
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

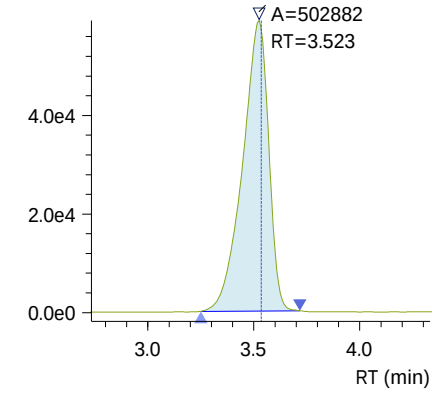
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



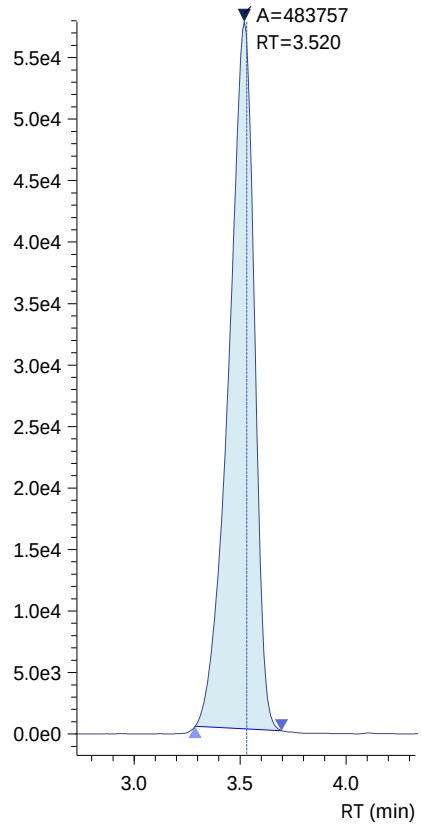
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

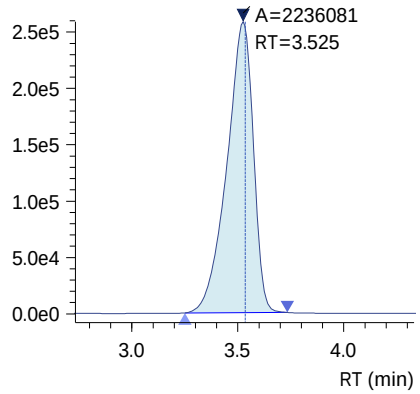
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360 81	469429	30.5 732	ng/mL	101.00 >85.00	32.91	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

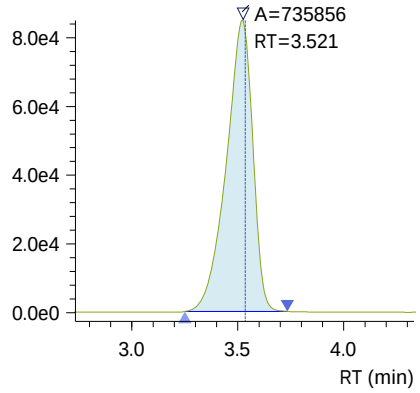
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



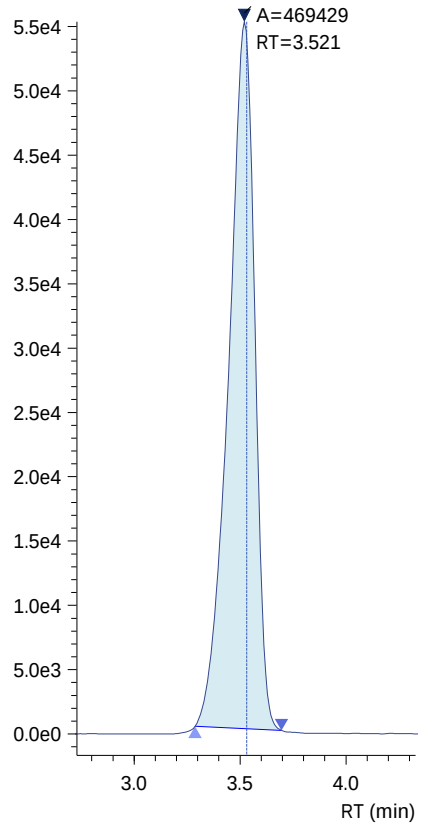
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

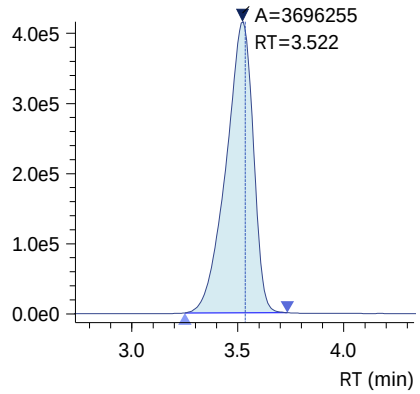
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

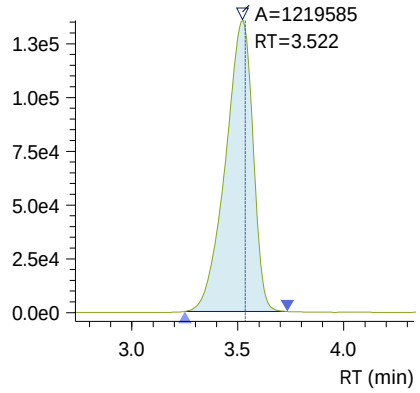
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



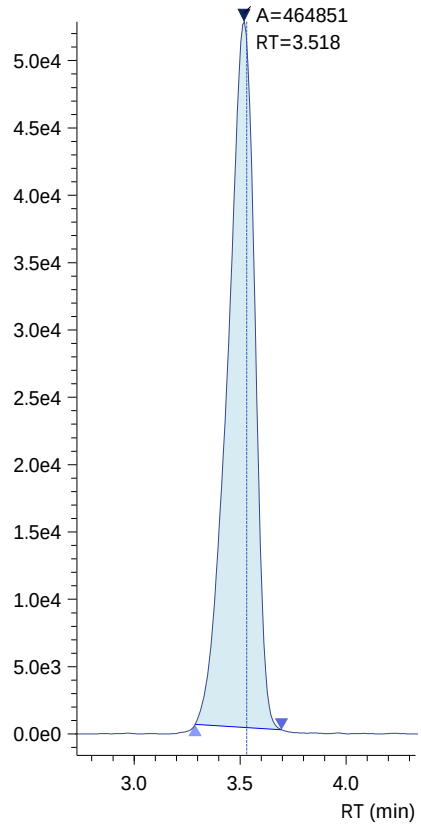
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/23/24 15:40

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240523\20240523-016	**Lab Code:**	EQ2400250-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841830
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	EQ2400250-01	598,396	3.47
Method Blank	EQ2400248-01	478,252	3.47
Lab Control Sample	EQ2400248-02	505,842	3.47
Duplicate Lab Control Sample	EQ2400248-03	506,833	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/23/24 16:47

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240523\20240523-028	**Lab Code:**	EQ2400250-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841830
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	EQ2400250-02	629,224	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/23/24 17:31

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240523\20240523-036	**Lab Code:**	EQ2400250-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841830
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	EQ2400250-03	616,948	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/24/24 08:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240524\20240524-004	**Lab Code:**	EQ2400251-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841958
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	EQ2400251-01	471,994	3.47
Continuing Calibration Verification	EQ2400251-02	471,994	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/24/24 08:42

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240524\20240524-004	**Lab Code:**	EQ2400251-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841958
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	EQ2400251-01	471,994	3.47
Continuing Calibration Verification	EQ2400251-02	471,994	3.47
LH18/24-SP650_051424_BIX	E2400498-001	368,909	3.47
LH18/24-SP650_051424_AIX	E2400498-002	384,375	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/24/24 09:57

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240524\20240524-017	**Lab Code:**	EQ2400251-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841958
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	EQ2400251-03	486,900	3.47

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:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/24/24 14:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240524\20240524-033	**Lab Code:**	EQ2400251-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	841958
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	EQ2400251-04	464,252	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: HS24050826

Service Request: E2400498
Date Analyzed: 5/23/24

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\20240523\20240523-016

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841830
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1331		9.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826

Service Request: E2400498
Date Analyzed: 5/23/24

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\20240523\20240523-028

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841830
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.3	0.1331		13.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826

Service Request: E2400498
Date Analyzed: 5/23/24

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\20240523\20240523-036

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841830
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1331		4.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826

Service Request: E2400498
Date Analyzed: 5/24/24

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\20240524\20240524-004

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841958
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1331		1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826

Service Request: E2400498
Date Analyzed: 5/24/24

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\20240524\20240524-004

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841958
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1331		1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400498
Project:	HS24050826	**Date Analyzed:**	5/24/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	5/23/24
File ID:	I:\LCMS01\DATA\20240524\20240524-017	**Calibration ID:**	EC2400008
		Analysis Lot:	841958
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1331		14.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050826

Service Request: E2400498
Date Analyzed: 5/24/24

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\20240524\20240524-033

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 841958
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1331		14.1	NA	± 15 %	Average RF

Insight Report

Printed at 5/28/2024 12:34:59 PM

Method File: I:\LCMS01\DATA\20240523ICAL\20240523.lcm
Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

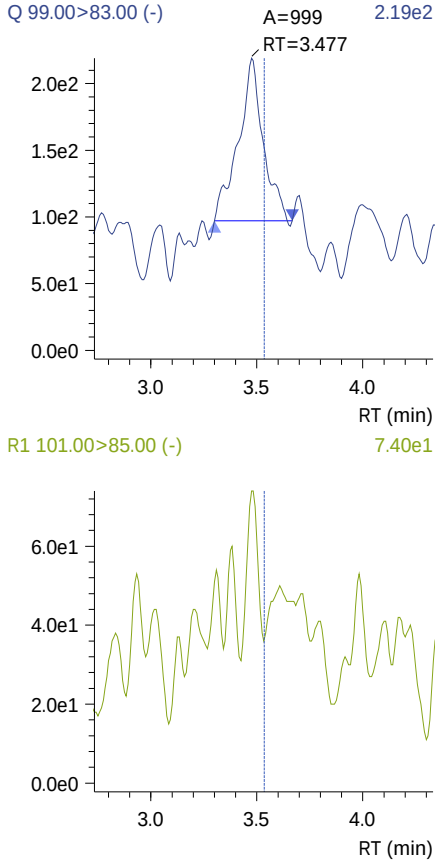
IB

Sample ID: IB
Date Acquired: 5/23/2024 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	----	----	

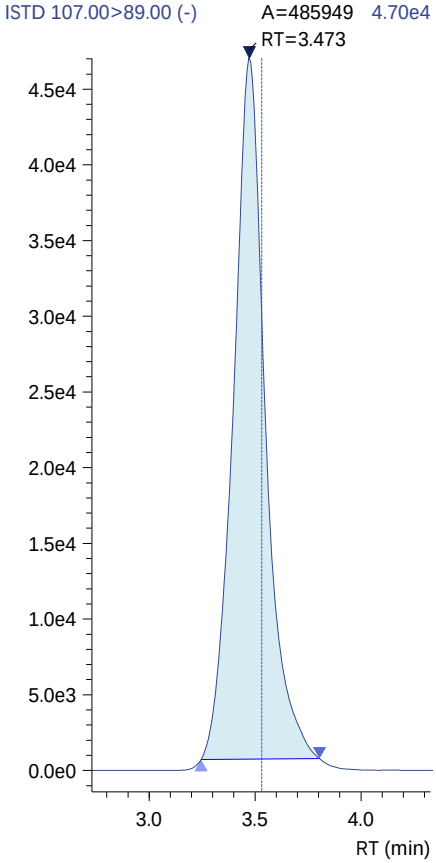
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:36:01 PM

Method File: I:\LCMS01\DATA\20240523ICAL\20240523.lcm
Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

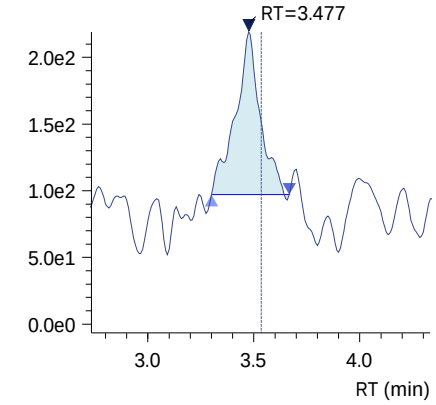
IB

Sample ID: IB
Date Acquired: 5/23/2024 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

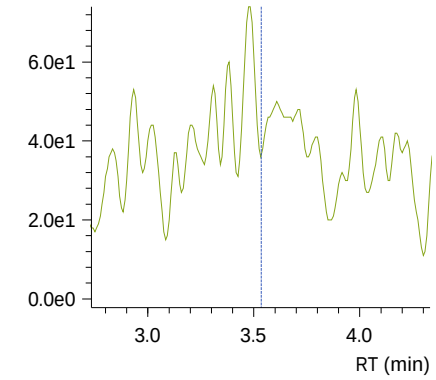
Perchlorate

Conc 0.0155
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=999 2.19e2



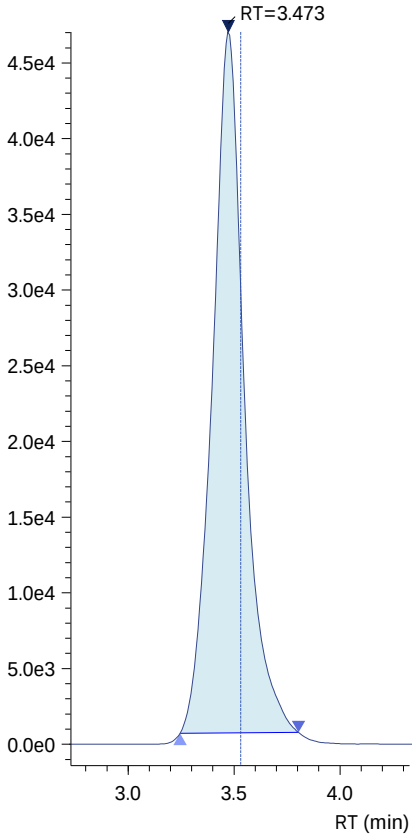
R1 101.00>85.00 (-) 7.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=485949 4.70e4



Insight Report

Printed at 5/28/2024 12:34:59 PM

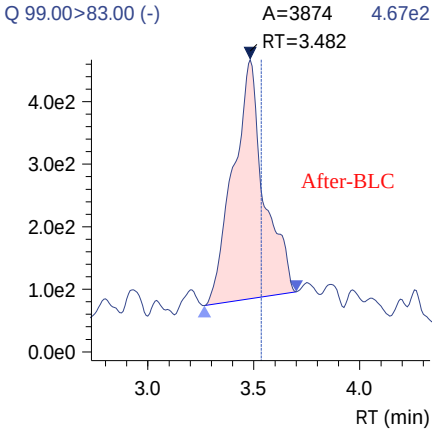
LODV

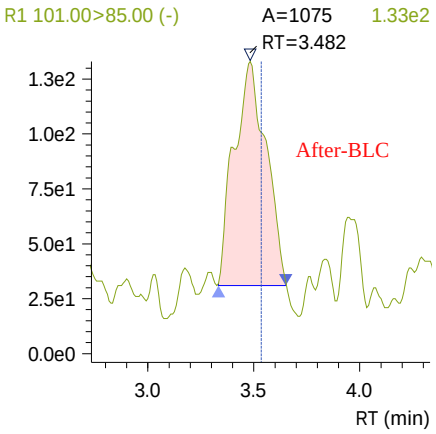
Sample ID: LODV
Date Acquired: 5/23/2024 3:29:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-014.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.482	3874	483465	0.0605	ng/mL	101.00 >85.00	27.76	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	4834 65	483465	1.0000	ng/mL	----	----	

Perchlorate

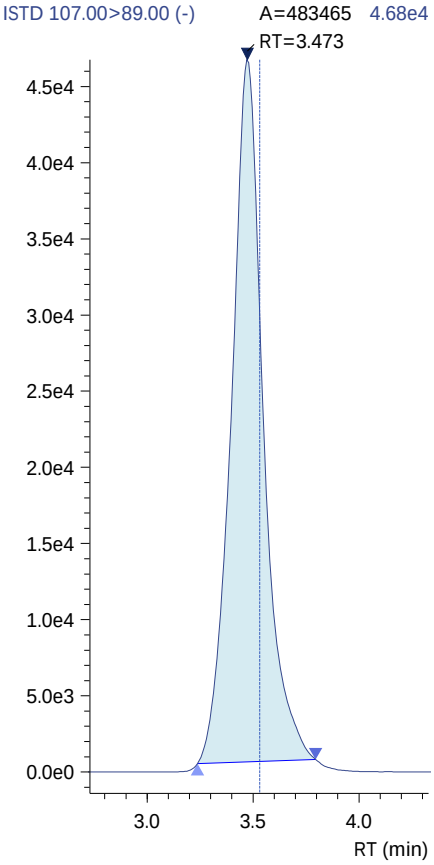
Conc 0.0605
R#1 27.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:36:01 PM

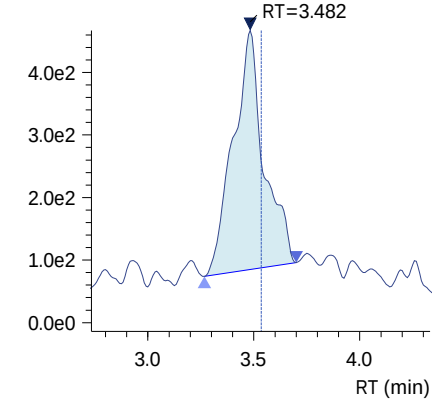
LODV

Sample ID: LODV
Date Acquired: 5/23/2024 3:29:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-014.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

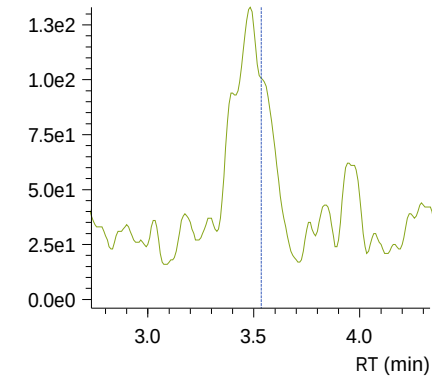
Perchlorate

Conc 0.0605
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=3874 4.67e2 RT=3.482



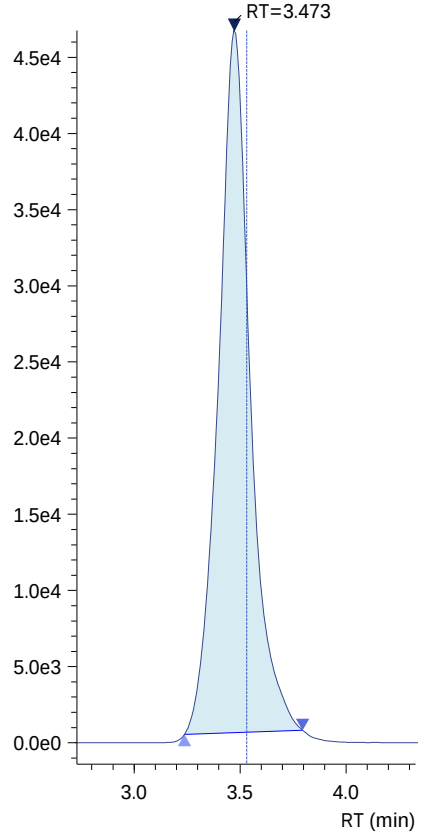
R1 101.00>85.00 (-) 1.33e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=483465 4.68e4 RT=3.473



Insight Report

Printed at 5/28/2024 12:34:59 PM

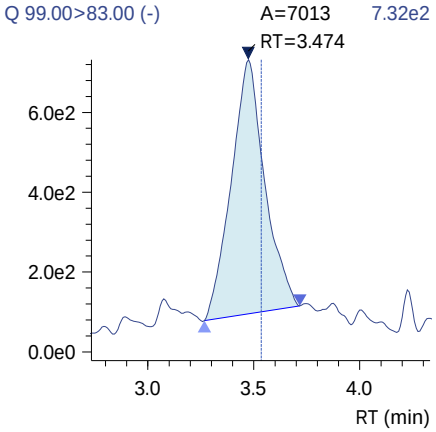
ICS

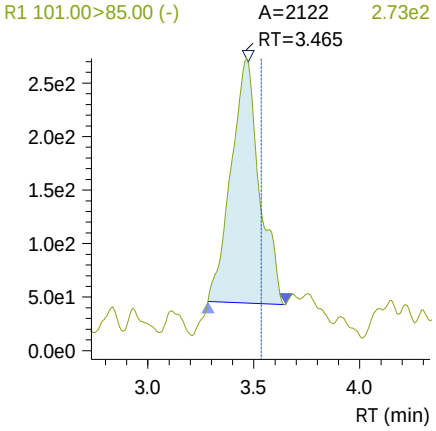
Sample ID: ICS
Date Acquired: 5/23/2024 3:35:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-015.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	7013	479067	0.1105	ng/mL	101.00 >85.00	30.25	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	4790 67	479067	1.0000	ng/mL	----	----	

Perchlorate

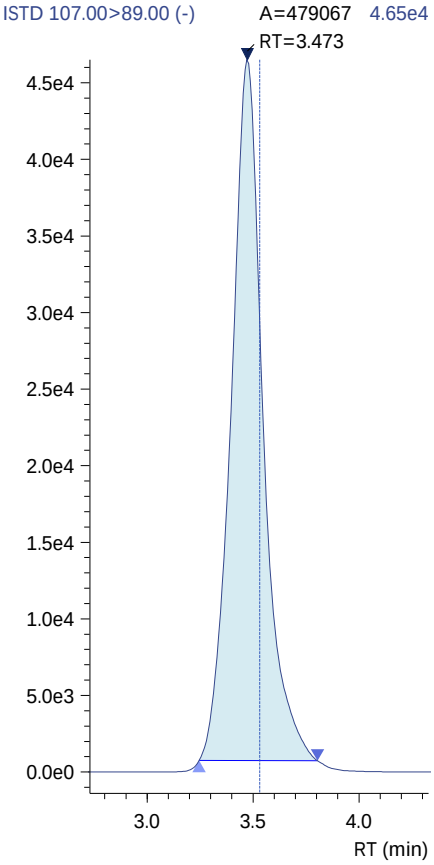
Conc 0.1105
R#1 30.25 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

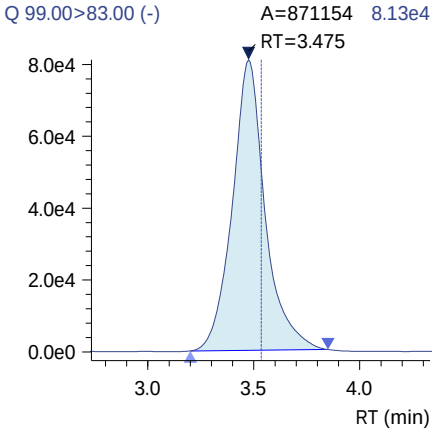
CCV

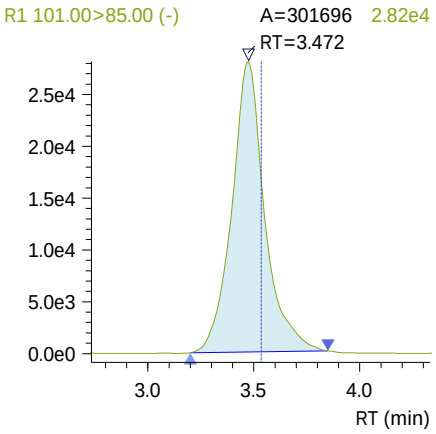
Sample ID: CCV
Date Acquired: 5/23/2024 3:40:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	871154	598396	10.9906	ng/mL	101.00 >85.00	34.63	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	598396	598396	1.0000	ng/mL	----	----	

Perchlorate

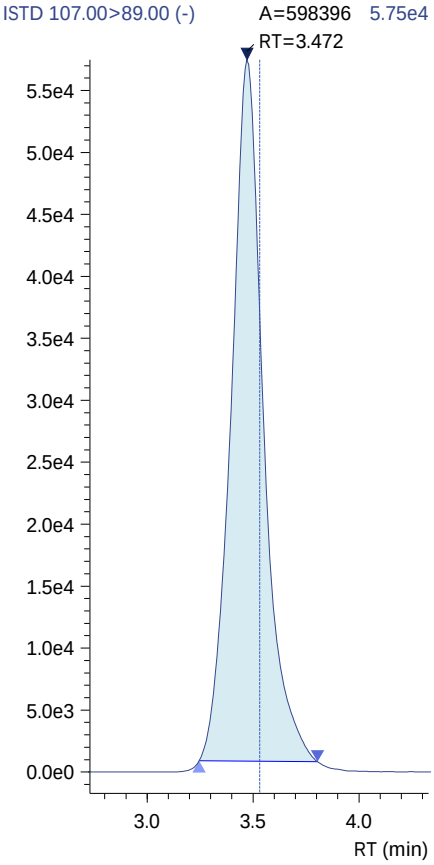
Conc 10.9906
R#1 34.63 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

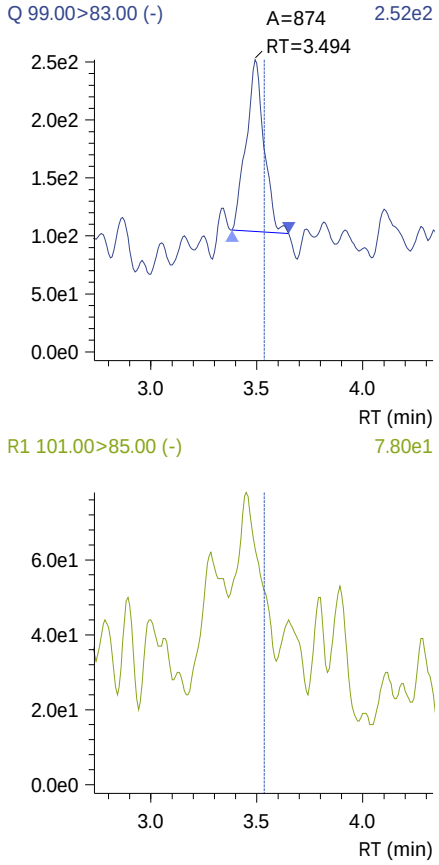
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:46:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-017.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	----	----	499880	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	499880	499880	1.0000	ng/mL	----	----	

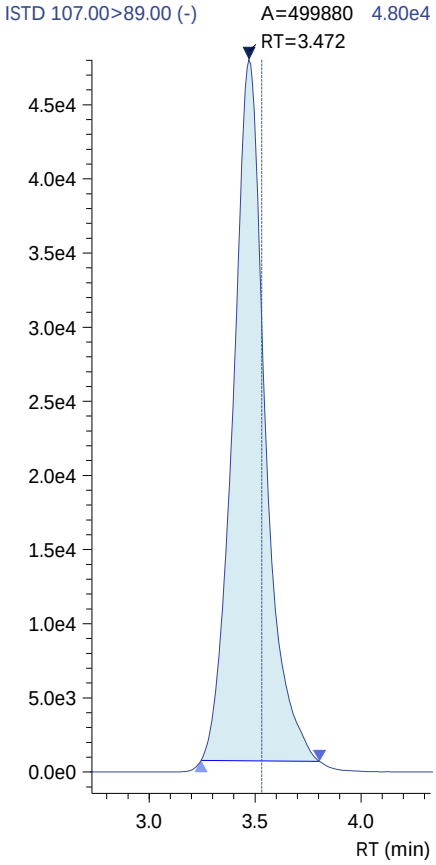
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

EQ2400248-01 MB

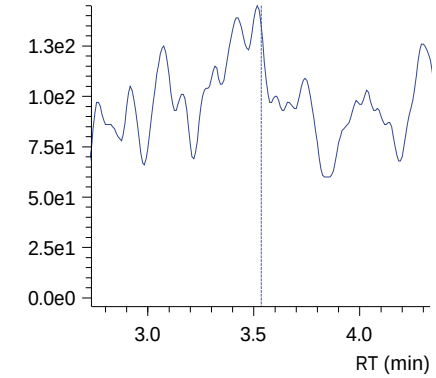
Sample ID: EQ2400248-01 MB
Date Acquired: 5/23/2024 3:51:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-018.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	478252	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	478252	478252	1.0000	ng/mL	----	----	

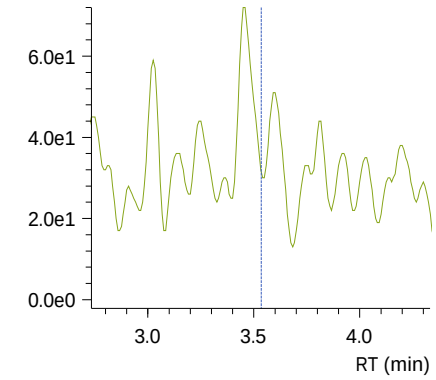
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.45e2



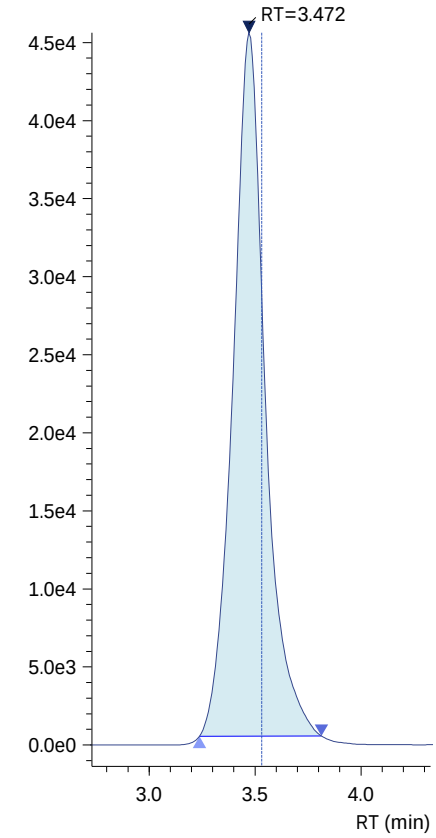
R1 101.00>85.00 (-) 7.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=478252 4.56e4



Insight Report

Printed at 5/28/2024 12:34:59 PM

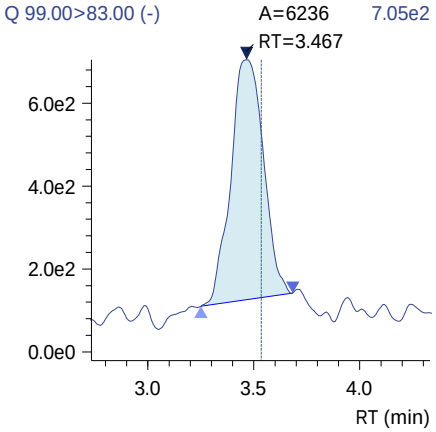
EQ2400248-02 LCS

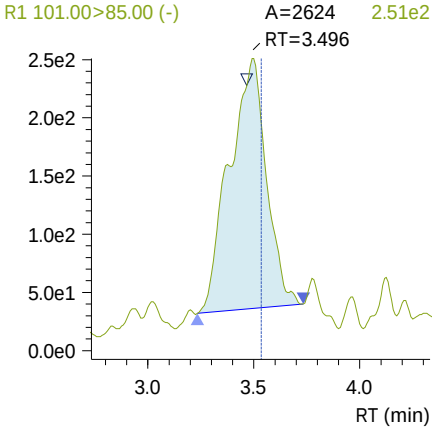
Sample ID: EQ2400248-02 LCS
Date Acquired: 5/23/2024 3:57:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-019.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.467	6236	505842	0.0931	ng/mL	101.00 >85.00	42.08	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	5058 42	505842	1.0000	ng/mL	----	----	

Perchlorate

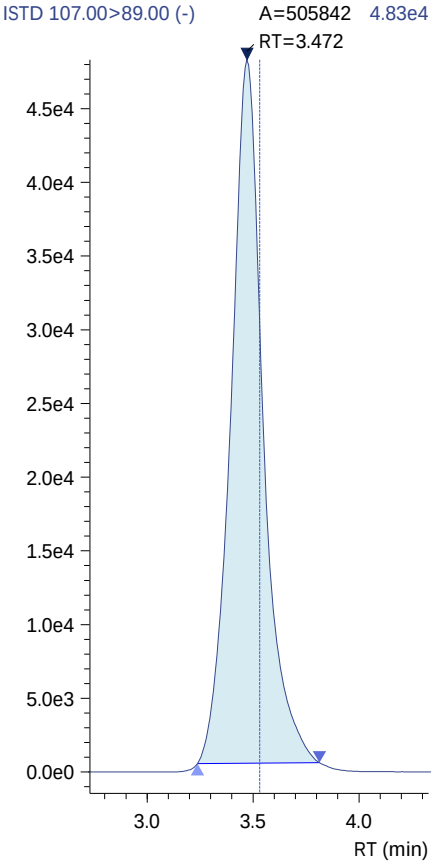
Conc 0.0931
R#1 42.08 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

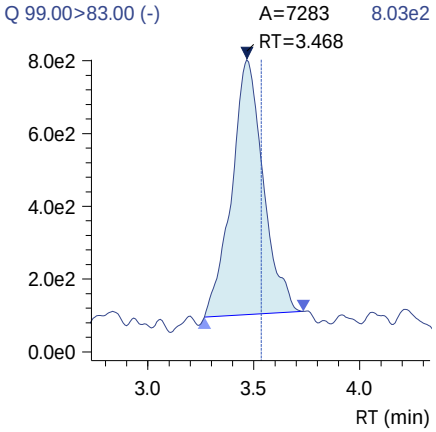
EQ2400248-03 DLCS

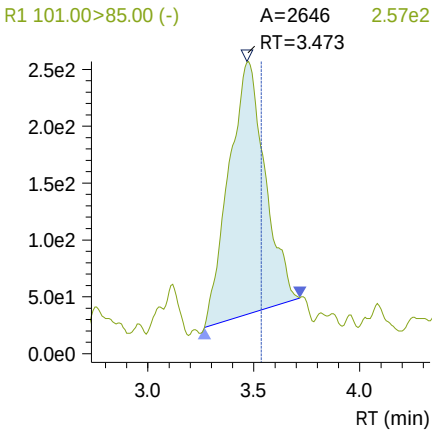
Sample ID: EQ2400248-03 DLCS
Date Acquired: 5/23/2024 4:02:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-020.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.468	7283	506833	0.1085	ng/mL	101.00 >85.00	36.33	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.469	5068 33	506833	1.0000	ng/mL	----	----	

Perchlorate

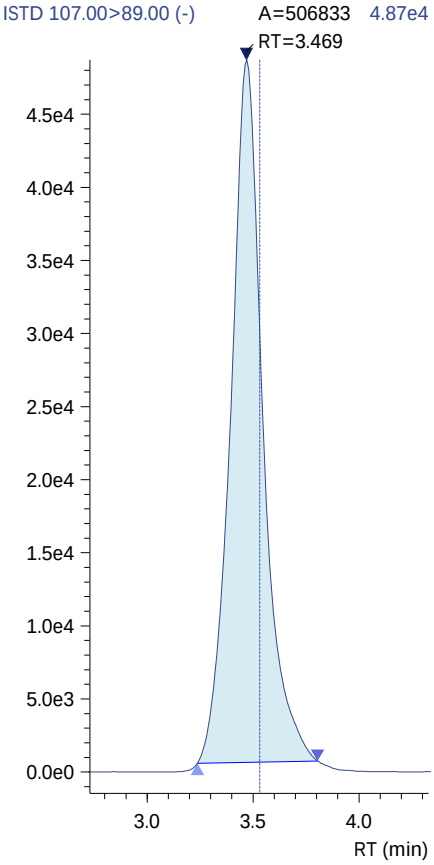
Conc 0.1085
R#1 36.33 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

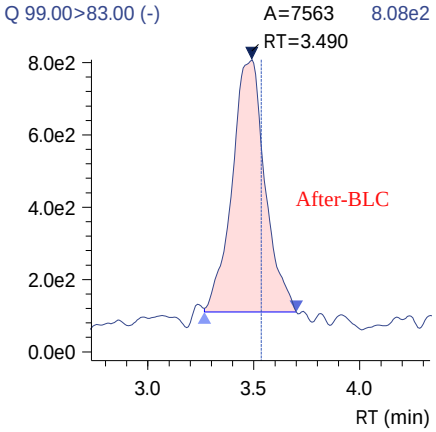
EQ2400248-04 ICS

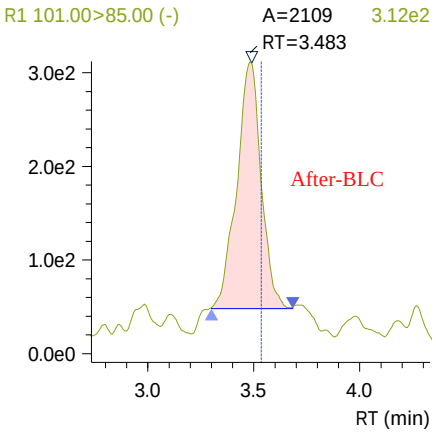
Sample ID: EQ2400248-04 ICS
Date Acquired: 5/23/2024 4:08:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-021.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.490	7563	510008	0.1120	ng/mL	101.00 >85.00	27.89	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.471	510008	510008	1.0000	ng/mL	----	----	

Perchlorate

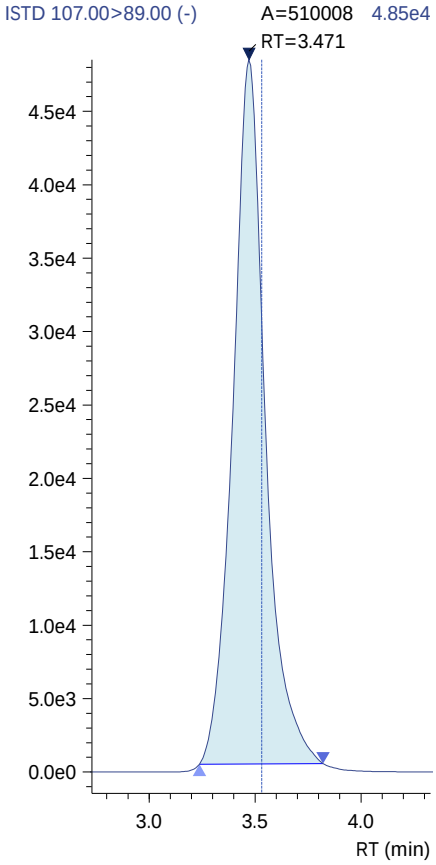
Conc 0.1120
R#1 27.89 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

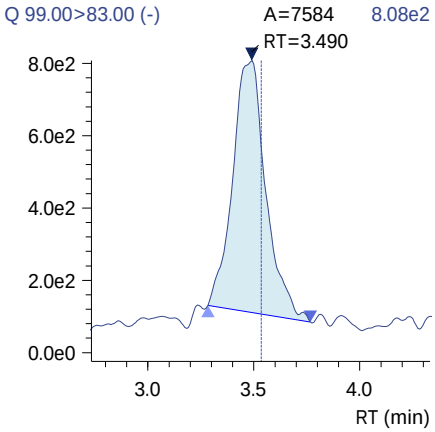
Printed at 5/28/2024 12:36:01 PM

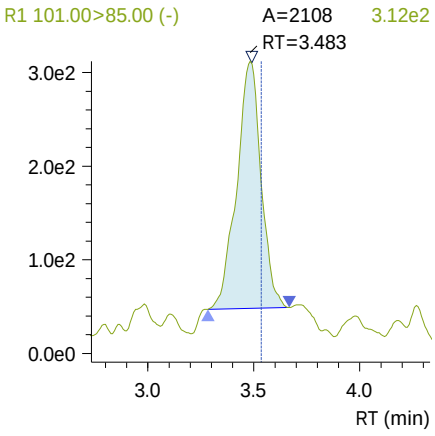
EQ2400248-04 ICS

Sample ID: EQ2400248-04 ICS
Date Acquired: 5/23/2024 4:08:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-021.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

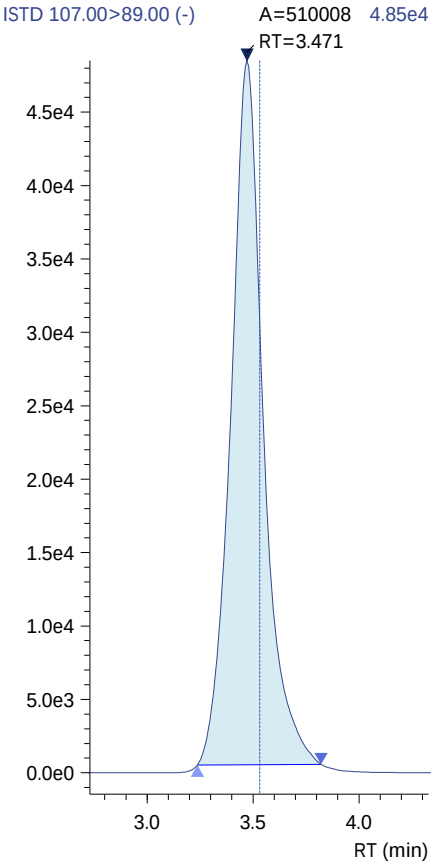
Conc 0.1123
R#1 27.80 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

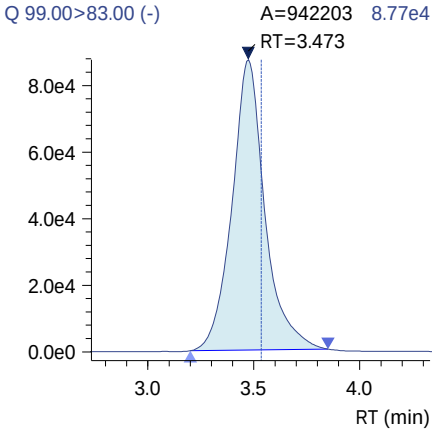
CCV

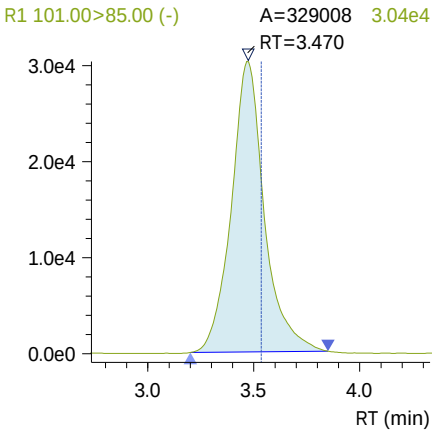
Sample ID: CCV
Date Acquired: 5/23/2024 4:47:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	942203	629224	11.3046	ng/mL	101.00 >85.00	34.92	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.471	629224	629224	1.0000	ng/mL	----	----	

Perchlorate

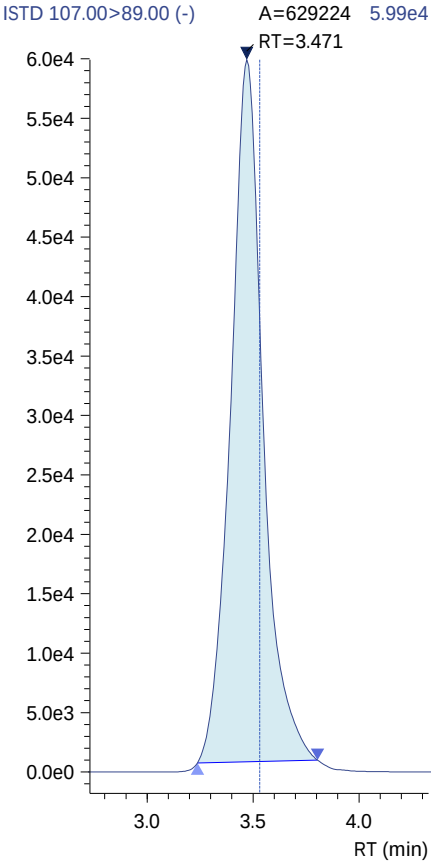
Conc 11.3046
R#1 34.92 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

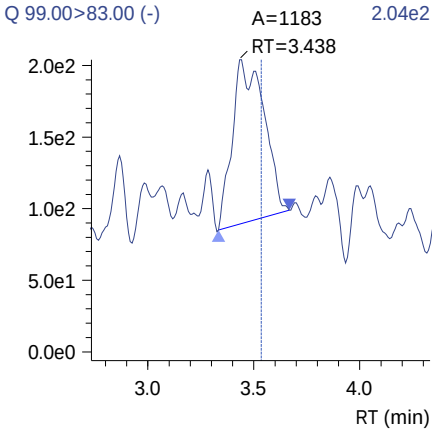
IB

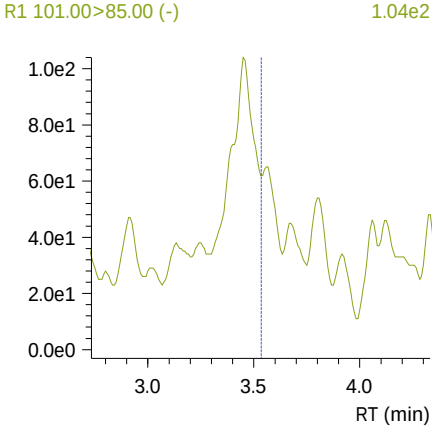
Sample ID: IB
Date Acquired: 5/23/2024 4:52:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-029.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	523113	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate-18O4 _IS	Auto	3.470	523113	523113	1.0000	ng/mL	----	----	

Perchlorate

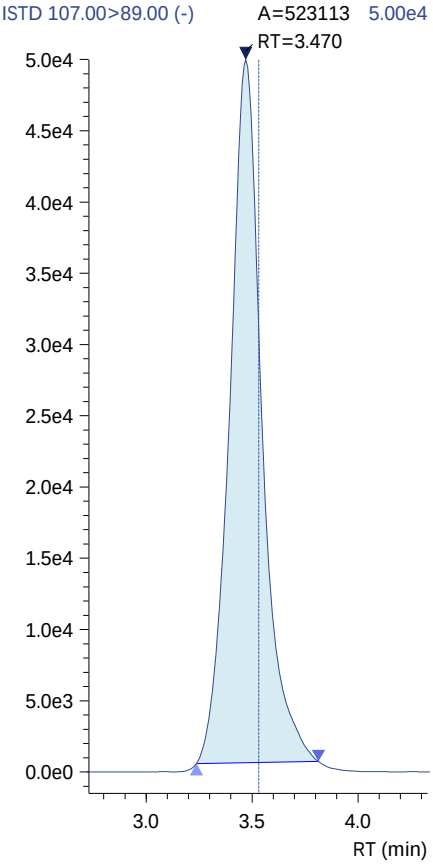
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:34:59 PM

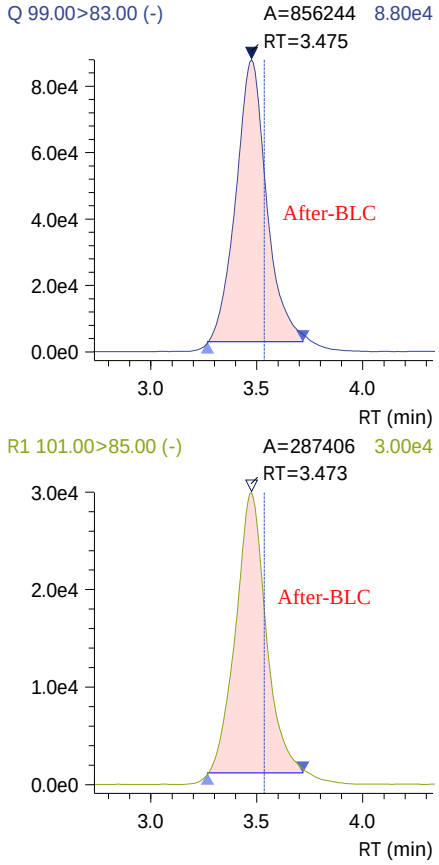
CCV

Sample ID: CCV
Date Acquired: 5/23/2024 5:31:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-036.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	M	3.475	8562 44	616948	10.4 777	ng/mL	101.00 >85.00	33.57	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.470	6169 48	616948	1.0000	ng/mL	----	----	

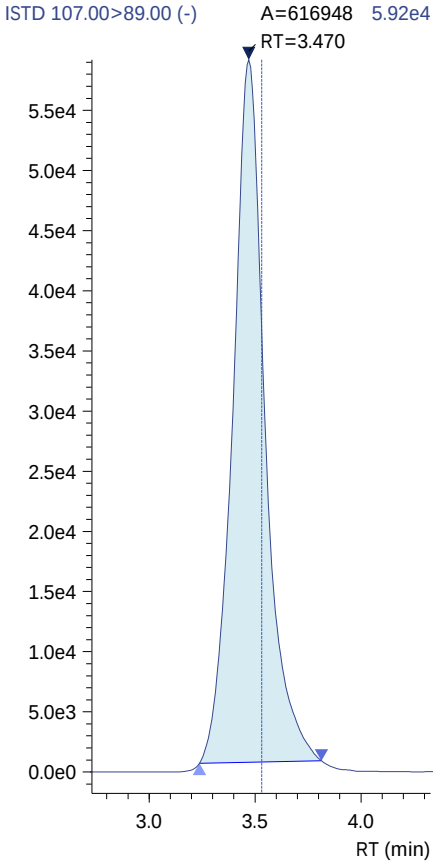
Perchlorate

Conc 10.4777
R#1 33.57 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 12:36:01 PM

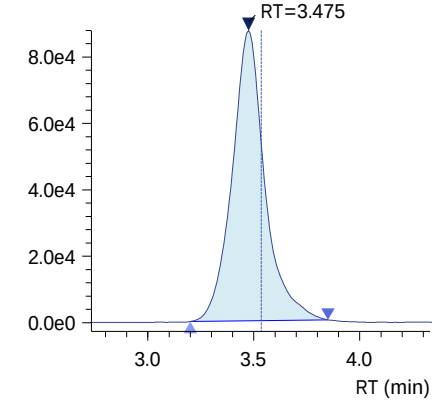
CCV

Sample ID: CCV
Date Acquired: 5/23/2024 5:31:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-036.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

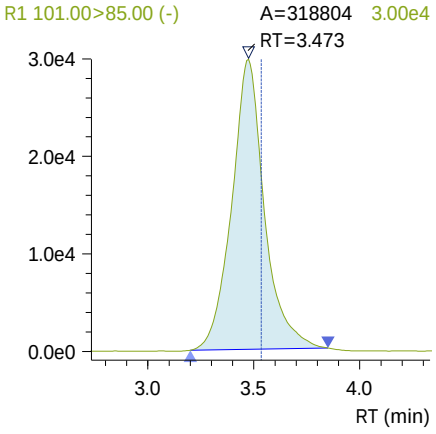
Perchlorate

Conc 11.5020
R#1 33.92 (34.10)

Q 99.00>83.00 (-) A=939947 8.80e4



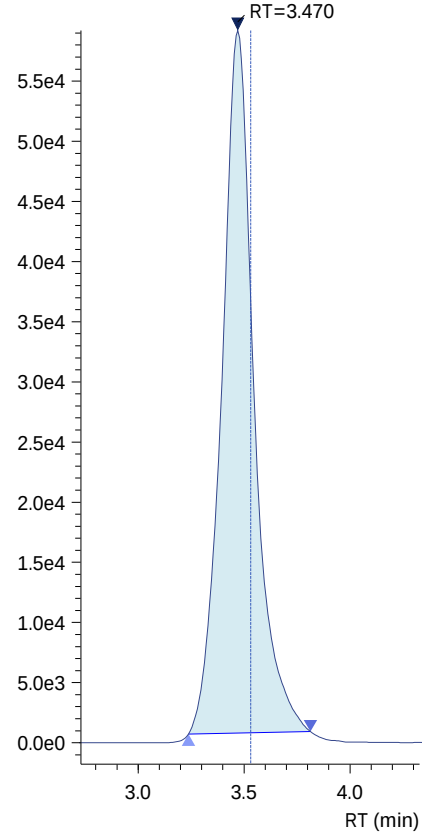
R1 101.00>85.00 (-) A=318804 3.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=616948 5.92e4



Insight Report

Printed at 5/28/2024 12:34:59 PM

IB

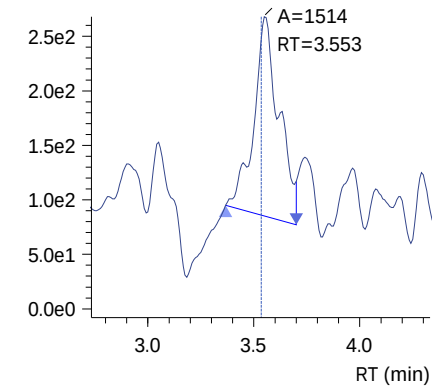
Sample ID: IB
Date Acquired: 5/23/2024 5:37:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-037.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	507736	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.553	507736	507736	1.0000	ng/mL	----	----	

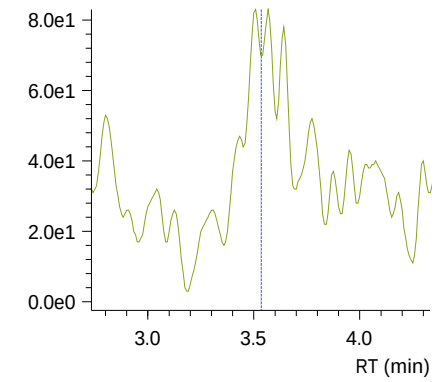
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.68e2



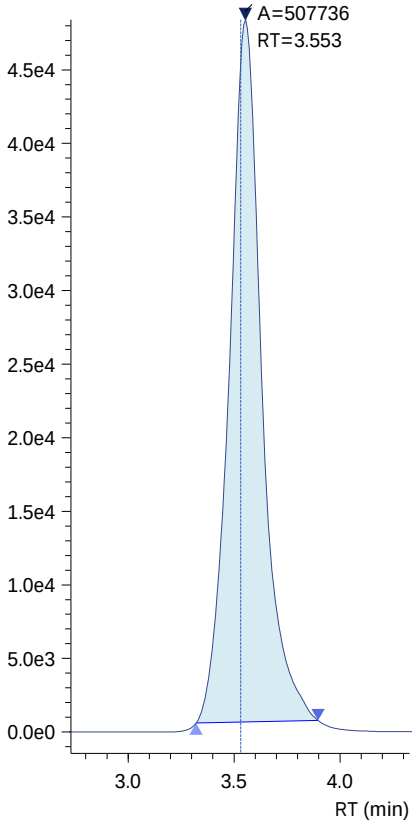
R1 101.00>85.00 (-) 8.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.84e4



Insight Report

Printed at 5/28/2024 1:22:02 PM

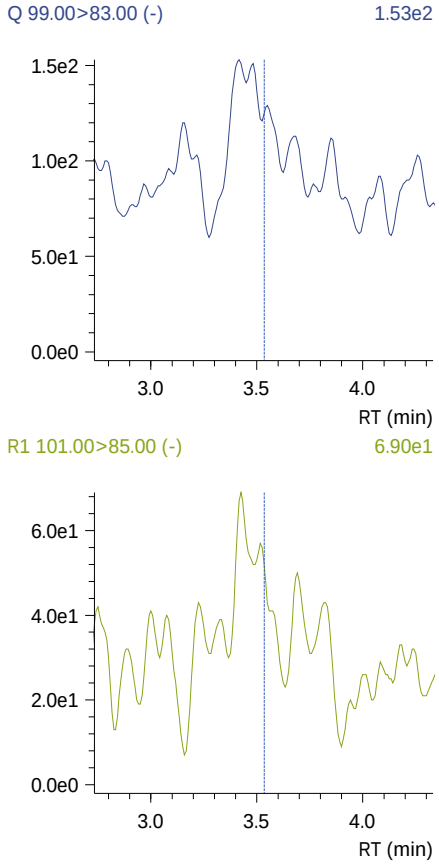
IB

Sample ID: IB
Date Acquired: 5/24/2024 8:25:44 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-001.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	ND(W/B)	----	----	352010	----	ng/mL	101.00 >85.00	0.00	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.471	352010	352010	1.0000	ng/mL	----	----	

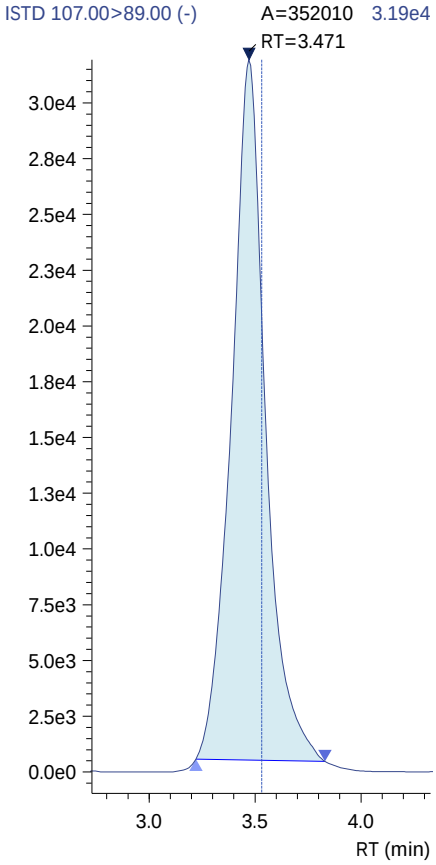
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 1:22:02 PM

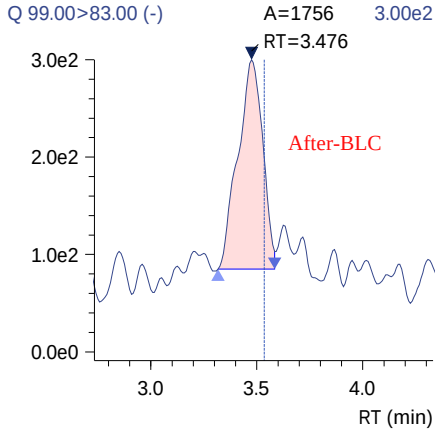
LODV

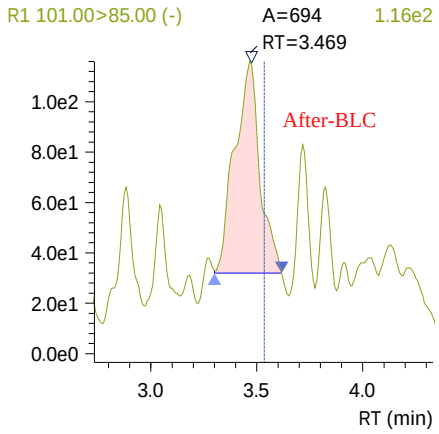
Sample ID: LODV
Date Acquired: 5/24/2024 8:31:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.476	1756	350745	0.0378	ng/mL	101.00 >85.00	39.55	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.479	350745	350745	1.0000	ng/mL	----	----	

Perchlorate

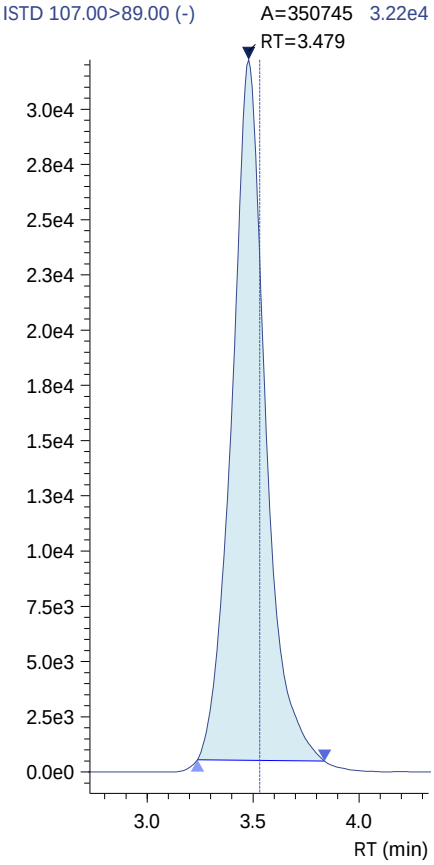
Conc 0.0378
R#1 39.55 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 7:40:33 AM

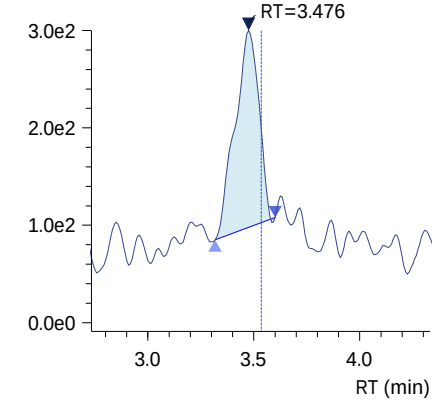
LODV

Sample ID: LODV
Date Acquired: 5/24/2024 8:31:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

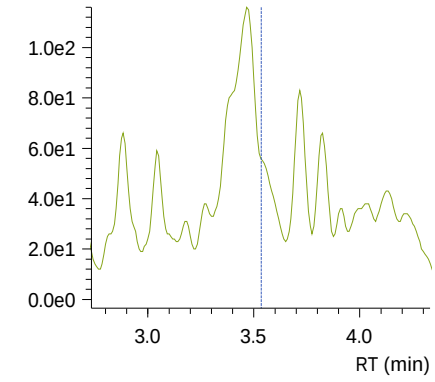
Perchlorate

Conc 0.0340
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1579 3.00e2
RT=3.476



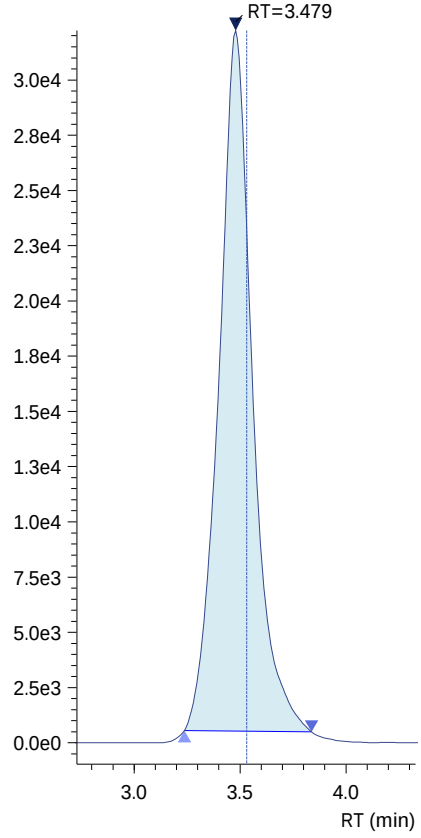
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=350745 3.22e4
RT=3.479



Insight Report

Printed at 5/28/2024 1:22:02 PM

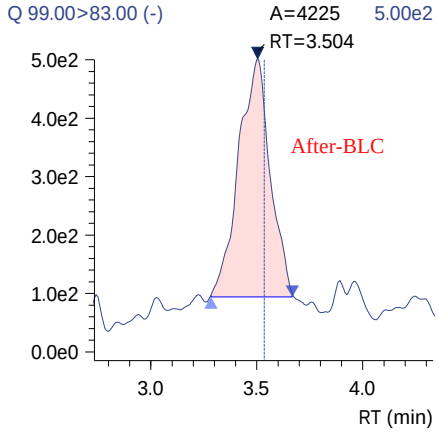
ICS

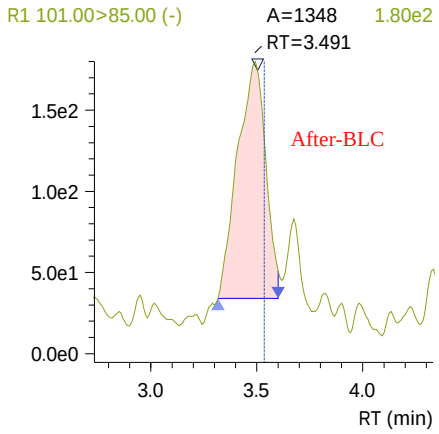
Sample ID: ICS
Date Acquired: 5/24/2024 8:36:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.504	4225	346910	0.0920	ng/mL	101.00 >85.00	31.91	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.476	3469 10	346910	1.0000	ng/mL	----	----	

Perchlorate

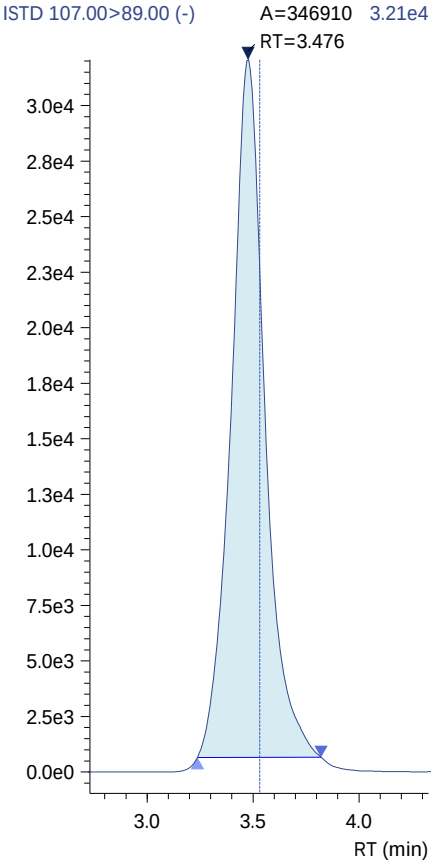
Conc 0.0920
R#1 31.91 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/29/2024 7:40:33 AM

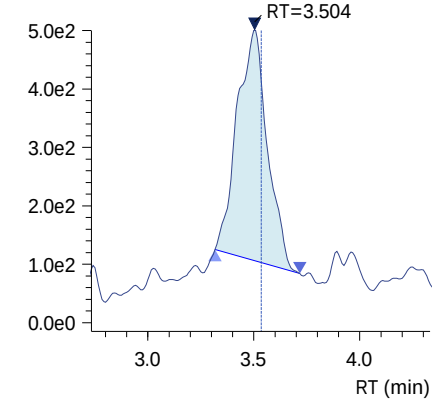
ICS

Sample ID: ICS
Date Acquired: 5/24/2024 8:36:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

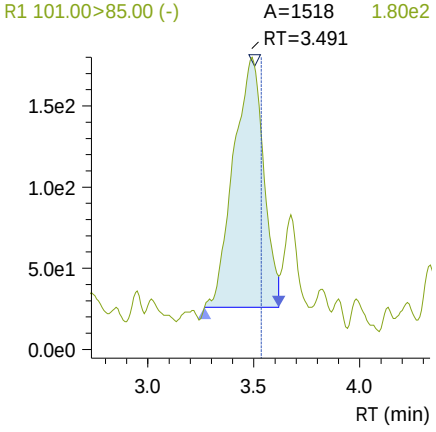
Perchlorate

Conc 0.0855
R#1 38.65 (34.10)

Q 99.00>83.00 (-) A=3928 5.00e2



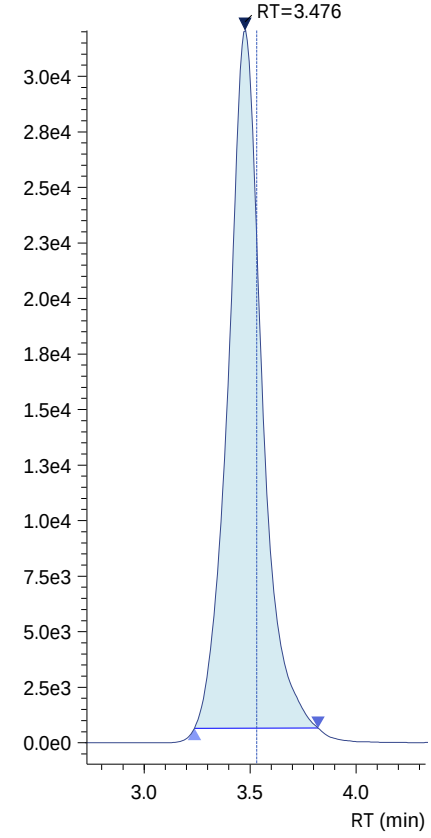
R1 101.00>85.00 (-) A=1518 1.80e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=346910 3.21e4



Insight Report

Printed at 5/28/2024 1:22:02 PM

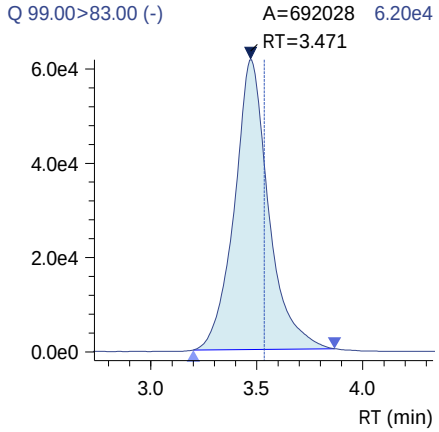
CCV

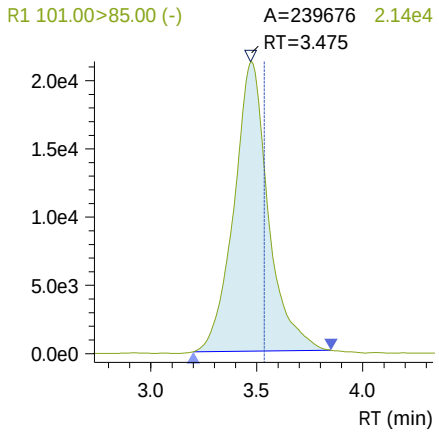
Sample ID: CCV
Date Acquired: 5/24/2024 9:01:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-007.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	6920 28	476870	10.9 557	ng/mL	101.00 >85.00	34.63	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.471	4768 70	476870	1.0000	ng/mL	----	----	

Perchlorate

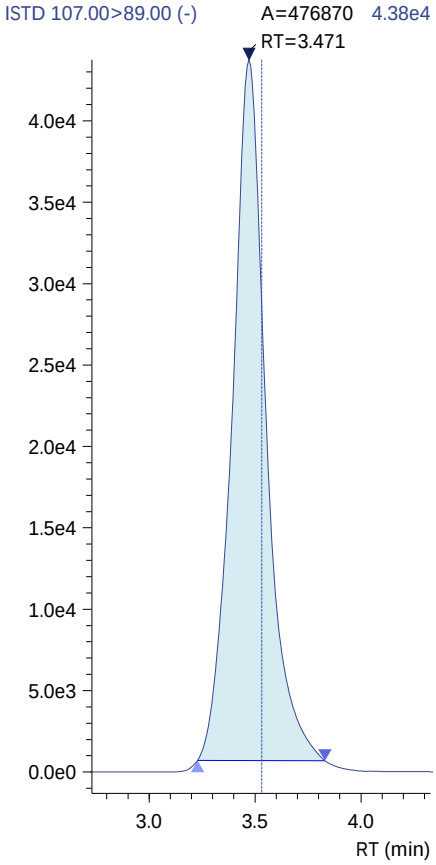
Conc 10.9557
R#1 34.63 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 1:22:02 PM

IB

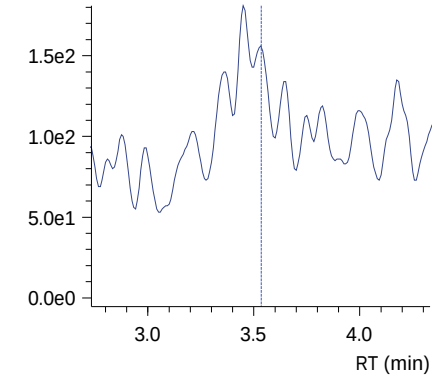
Sample ID: IB
Date Acquired: 5/24/2024 9:07:28 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	393935	----	ng/mL	101.00 >85.00	0.00	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.471	393935	393935	1.0000	ng/mL	----	----	

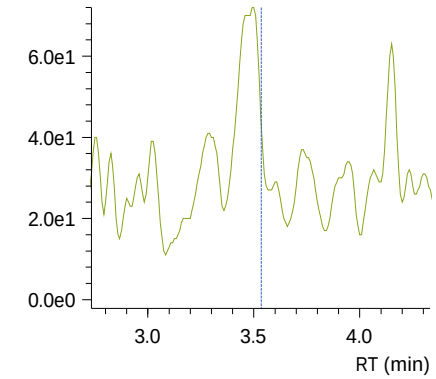
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.81e2



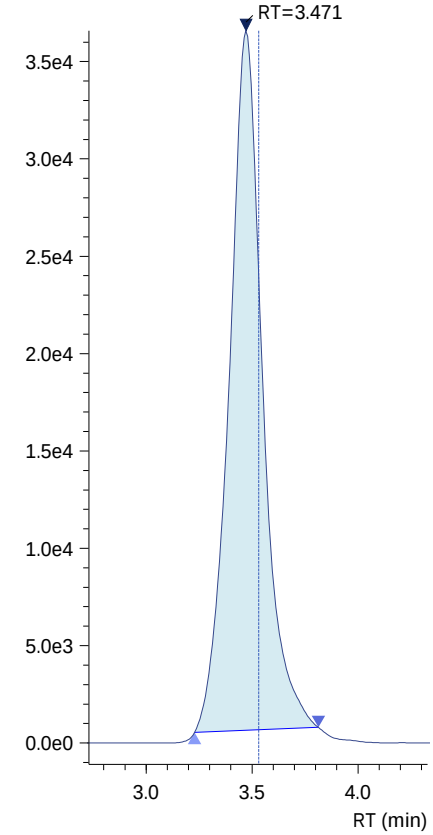
R1 101.00>85.00 (-) 7.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=393935 3.66e4



Insight Report

Printed at 5/28/2024 1:22:02 PM

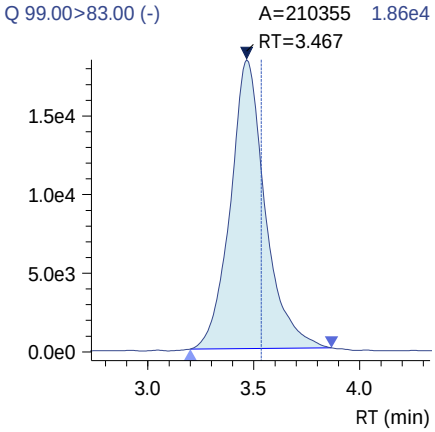
E2400498-01 10x

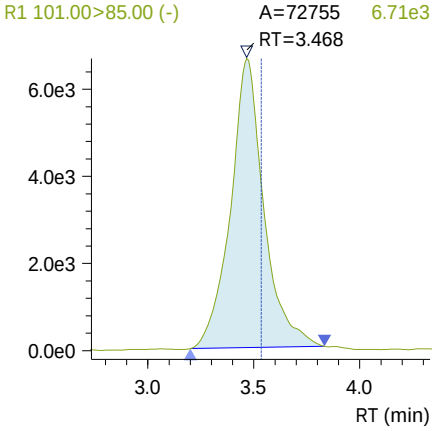
Sample ID: E2400498-01 10x
Date Acquired: 5/24/2024 9:46:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-015.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.467	210355	368909	4.3048	ng/mL	101.00 >85.00	34.59	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.466	368909	368909	1.0000	ng/mL	----	----	

Perchlorate

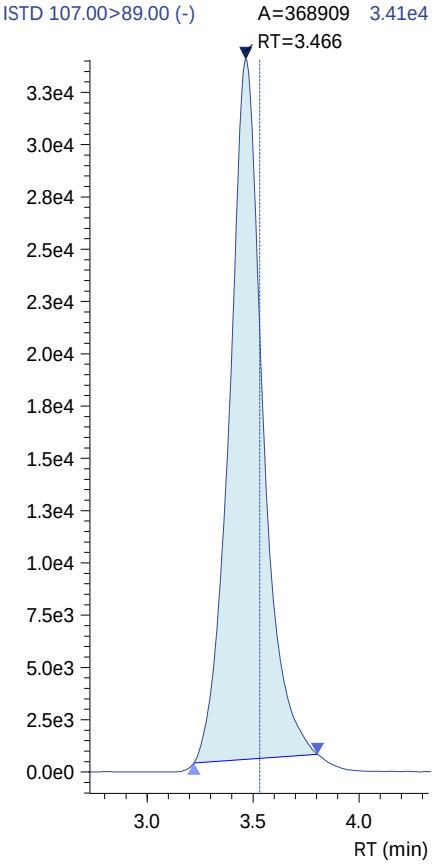
Conc 4.3048
R#1 34.59 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 1:22:02 PM

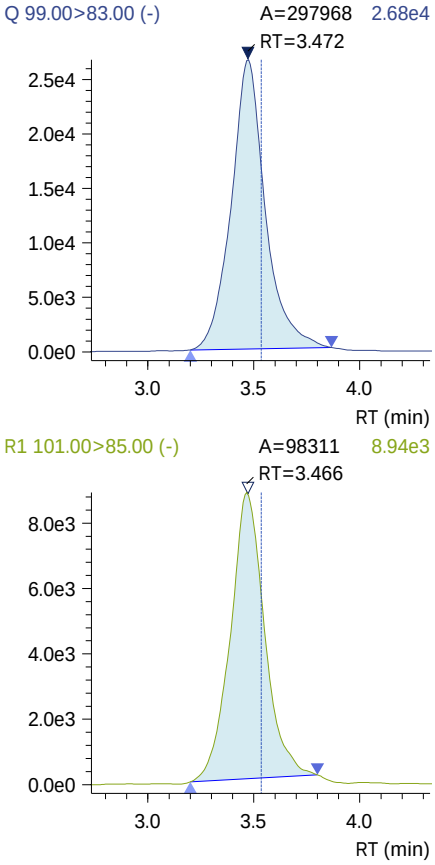
E2400498-02 2x

Sample ID: E2400498-02 2x
Date Acquired: 5/24/2024 9:51:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-016.lcd
Vial: 35 | 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	3.472	297968	384375	5.8524	ng/mL	101.00 >85.00	32.99	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.470	384375	384375	1.0000	ng/mL	----	----	

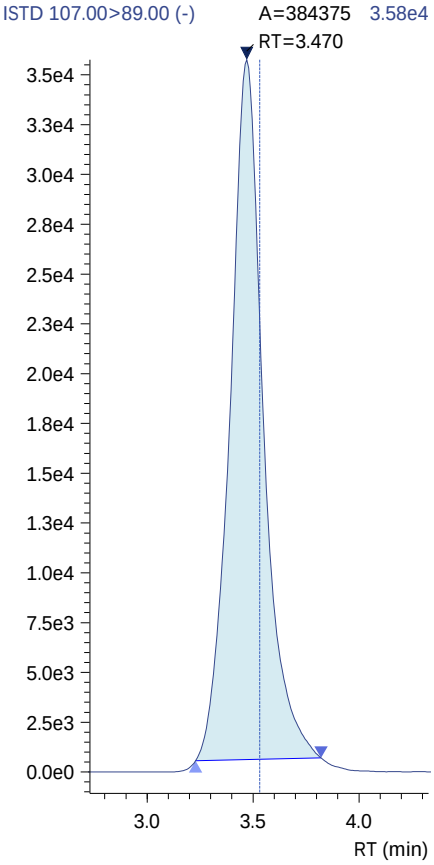
Perchlorate

Conc 5.8524
R#1 32.99 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 1:22:02 PM

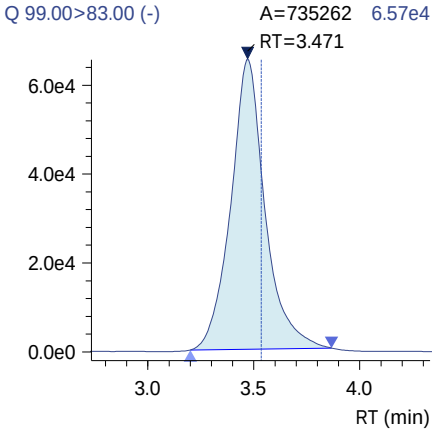
CCV

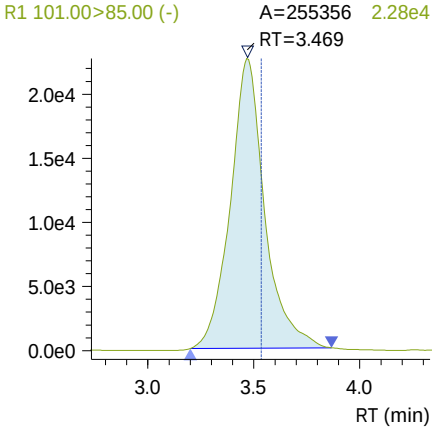
Sample ID: CCV
Date Acquired: 5/24/2024 9:57:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	735262	486900	11.4004	ng/mL	101.00 >85.00	34.73	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.468	486900	486900	1.0000	ng/mL	----	----	

Perchlorate

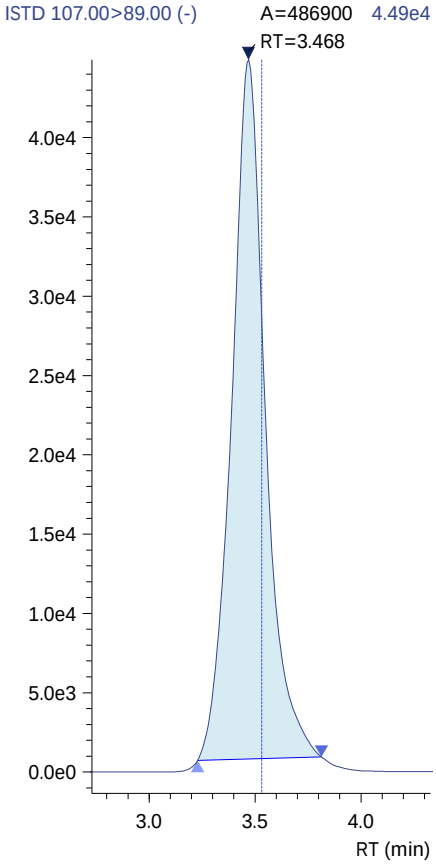
Conc 11.4004
R#1 34.73 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/28/2024 1:22:02 PM

IB

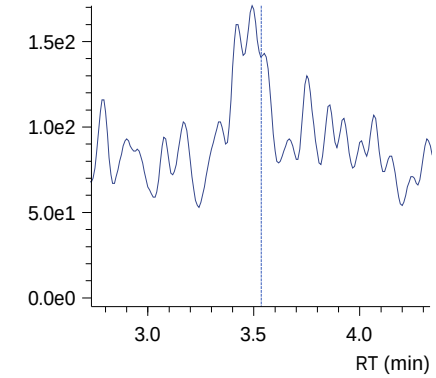
Sample ID: IB
Date Acquired: 5/24/2024 10:02:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240524\20240524-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	410766	----	ng/mL	101.00 >85.00	0.00	24.10 -44.76
Sodium Perchlorate-18O4_IS	Auto	3.467	410766	410766	1.0000	ng/mL	----	----	

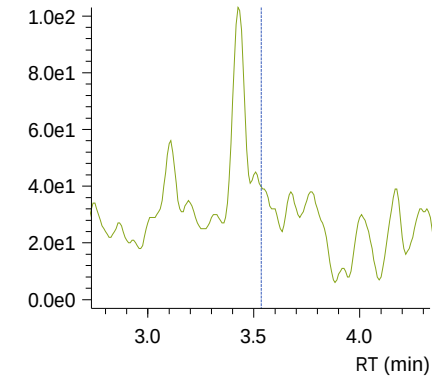
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.71e2



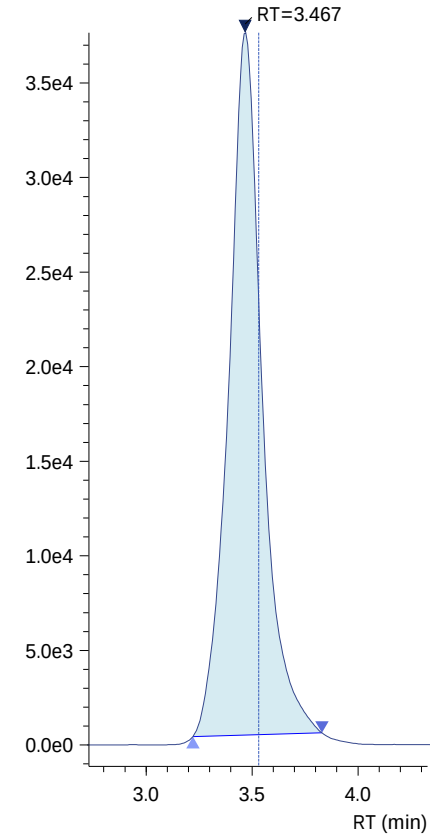
R1 101.00>85.00 (-) 1.03e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=410766 3.77e4



HS24050826 Wetchem NIT-AMM_W-E350.3 - ISE

ALS WO# HS24050826

ISE_W_350.3

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB					Date: 5-16-24 1000		
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F							
Probe Calibration Date: 5-16-24		Cal Std ID: 325103706			Probe ID: NH_3-10		
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:		
STD 1 (mg/L): 0.2		71.4	0.20		Std Level	mV	Conc., mg/L:
STD 2 (mg/L): 1		36.7	1.00		STD 4 (mg/L): 10	-17.7	10.00
STD 3 (mg/L): 5		-0.6	5.00		STD 5 (mg/L): 50	-57.8	50.00
LSC / MS Spike ID: 311202404					ICAL Date & Slope: 96.6% -57.0		
ICV Cal STD ID: 300/0709708							
DPD Reagent ID: 3100608715							

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		10.026			
CCB		↓	↓		0.001			
MBLK		↓	↓		0.002			
LCS		↓	↓		9.973			
0776-01		↓	↓		0.132		negative	
-01 MS		↓	↓		9.998		↓	
-01 MSD		↓	↓		10.007		↓	
0826-01		↓	↓		1.914		↓	
0709-01		↓	↓		0.151		↓	
0716-01		↓	↓	10x	22.676		↓	Nasty sample
CCV		↓	↓		10.110		↓	
CCB		↓	↓		0.004		↓	

Batch ID: 466915	Reported By HB	Reviewed By: SC

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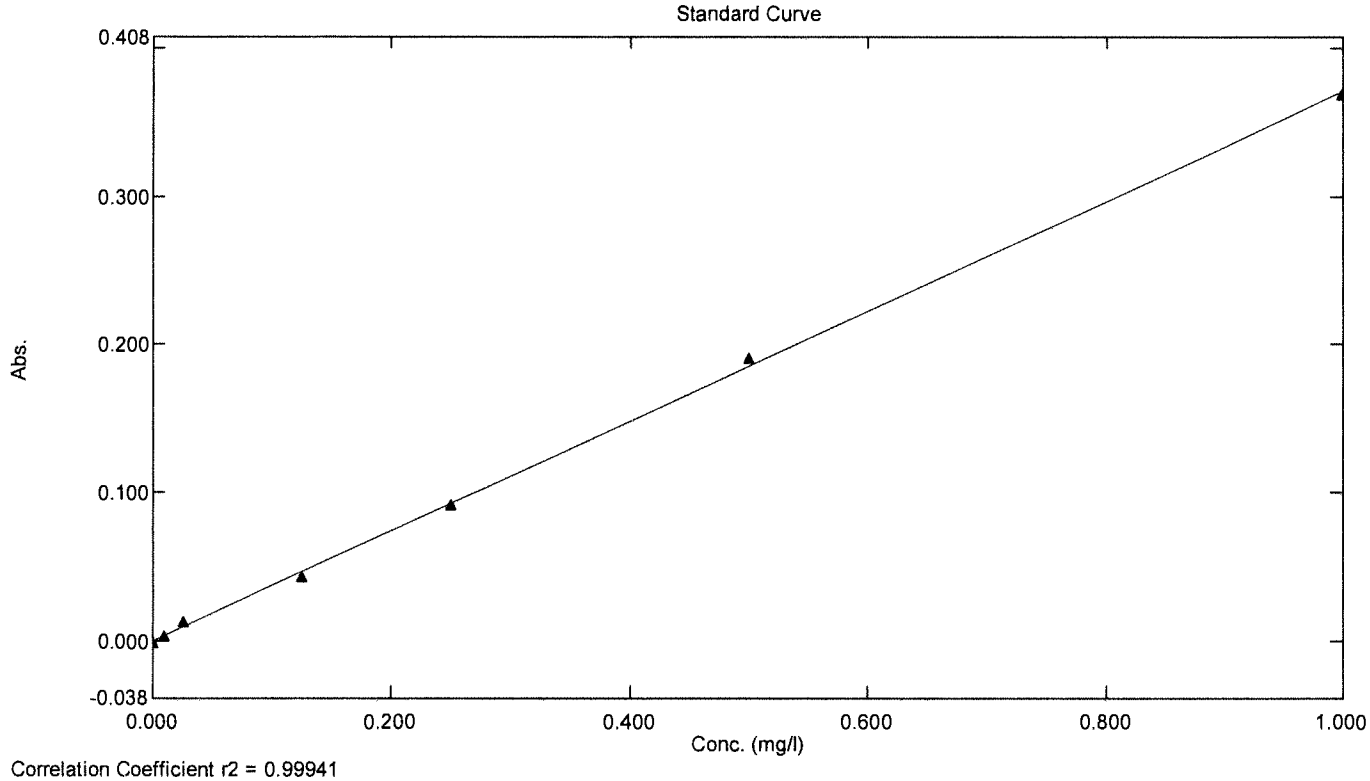
HS24050826 Wetchem P-ORTHO

ALS WO# HS24050826

Standard Table Report

06/19/2024 08:49:53 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05152024P_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

06/19/2024 08:50:46 AM

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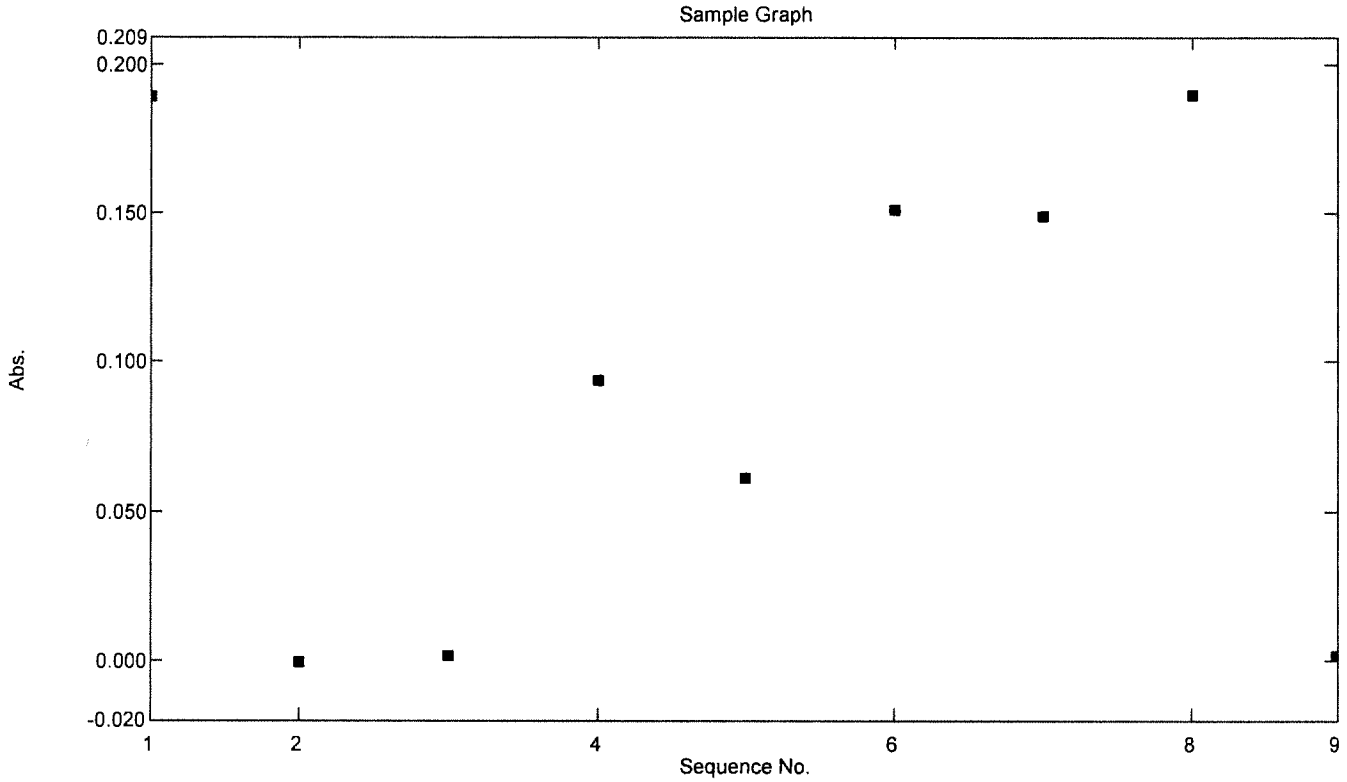


Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	05/15/2024	11:46:07 AM	0.510	0.189	325103411 WC-29
2	CCB	05/15/2024	11:46:56 AM	-0.002	-0.001	325101201
3	MBLK	05/15/2024	11:47:33 AM	0.003	0.001	325103604
4	LCS	05/15/2024	11:50:56 AM	0.252	0.094	325103412 WC-29
5	HS24050826.01	05/15/2024	11:51:34 AM	0.164	0.061	DF:50X
6	HS24050826.01MS	05/15/2024	11:53:51 AM	0.406	0.151	DF:50X
7	HS24050826.01MSD	05/15/2024	11:54:38 AM	0.401	0.149	DF:50X
8	CCV2	05/15/2024	11:55:11 AM	0.512	0.190	
9	CCB2	05/15/2024	11:55:32 AM	0.004	0.001	
10						

HS24050826 Wetchem TOC_W ICAL TABLE

ALS WO# HS24050826

C:\TOC-L\Data\2024_05_10_001CAL.tlx

	Type	Analysis	Sample Nam	Sample ID	Origin	Result	Notes	Status	Date / Time
1	Standard	NPOC	CAL	3100608307	05.10.2024.C			Completed	5/10/2024 7:
2	Unknown	NPOC	ICV	3100607917	05.10.2024.C	NPOC:9.61		Completed	5/10/2024 7:
3	Unknown	NPOC	ICB		05.10.2024.C	NPOC:0.03		Completed	5/10/2024 7:

	Vial
1	1, 2, 3, 4, 5,
2	8
3	1

HS24050826 Wetchem TOC_W ICAL

ALS WO# HS24050826

TOC-Control L Report

2024_05_10_001CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

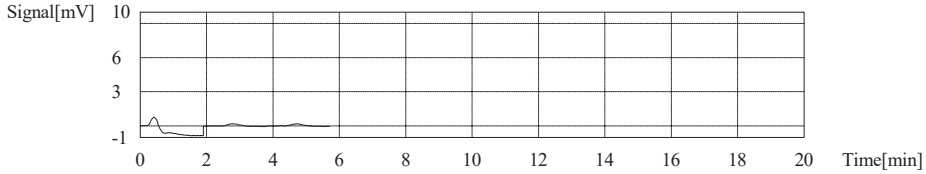
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.4225	50uL	1.000	*******		5/10/2024 6:09:54 PM
2	0.4649	50uL	1.000	*******		5/10/2024 6:12:23 PM
3	0.4009	50uL	1.000	*******		5/10/2024 6:14:52 PM

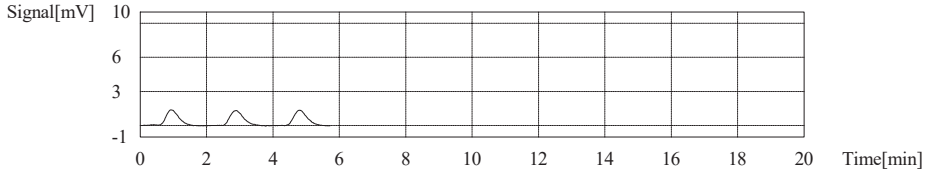
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 0.4294



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.530	50uL	1.000	*******		5/10/2024 6:19:54 PM
2	3.801	50uL	1.000	*******		5/10/2024 6:22:24 PM
3	3.850	50uL	1.000	*******		5/10/2024 6:24:53 PM

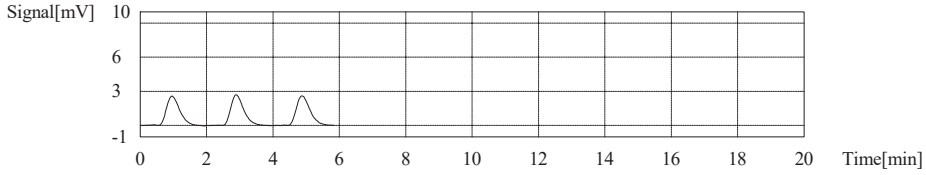
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 3.727



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.184	50uL	1.000	*******		5/10/2024 6:30:01 PM
2	7.300	50uL	1.000	*******		5/10/2024 6:32:33 PM
3	7.245	50uL	1.000	*******		5/10/2024 6:35:05 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 7.243



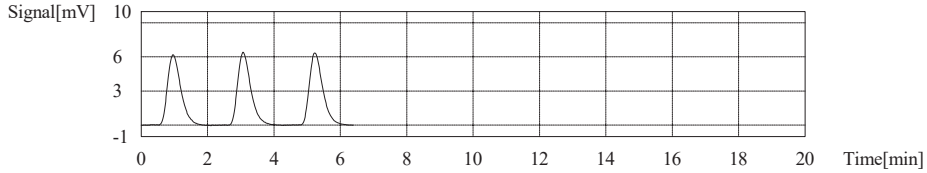
TOC-Control L Report

2024_05_10_001CAL.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.24	50uL	1.000	*******		5/10/2024 6:40:14 PM
2	17.77	50uL	1.000	*******		5/10/2024 6:42:59 PM
3	17.66	50uL	1.000	*******		5/10/2024 6:45:40 PM

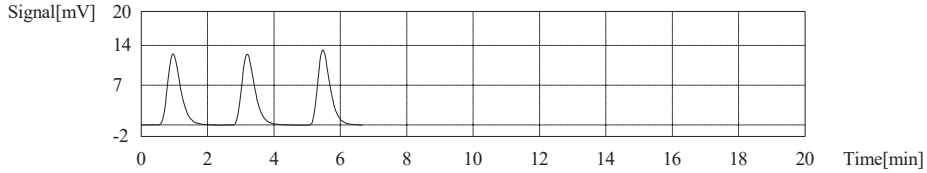
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 17.56



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	34.28	50uL	1.000	*******		5/10/2024 6:50:25 PM
2	34.02	50uL	1.000	*******		5/10/2024 6:53:19 PM
3	34.57	50uL	1.000	*******		5/10/2024 6:56:00 PM

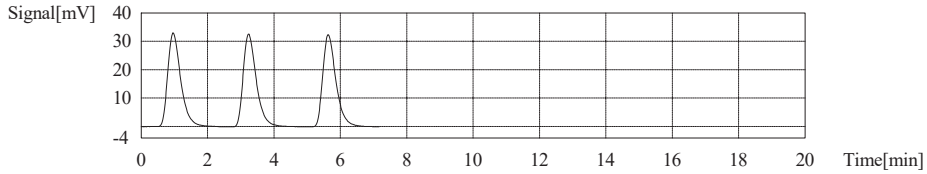
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 34.29



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	89.06	50uL	1.000	*******		5/10/2024 7:00:32 PM
2	88.80	50uL	1.000	*******		5/10/2024 7:03:30 PM
3	88.96	50uL	1.000	*******		5/10/2024 7:06:34 PM

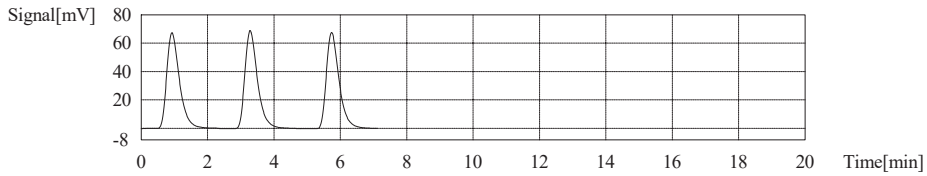
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 88.94



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	178.7	50uL	1.000	*******		5/10/2024 7:10:55 PM
2	181.8	50uL	1.000	*******		5/10/2024 7:13:57 PM
3	179.1	50uL	1.000	*******		5/10/2024 7:16:51 PM

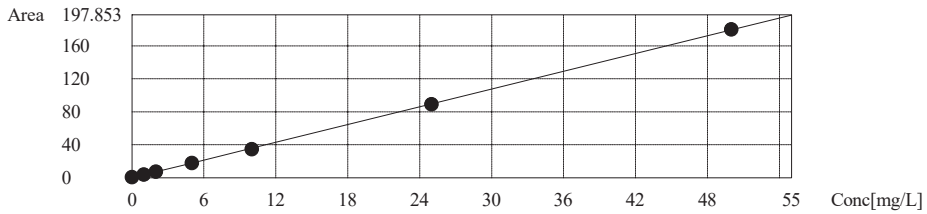
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 179.9



TOC-Control L Report

2024_05_10_001CAL.tlx

Slope:	3.592
Intercept	0.000
r^2	0.9999
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	05.10.2024.CAL.CELL.cal
Status	Completed
Chk. Result	

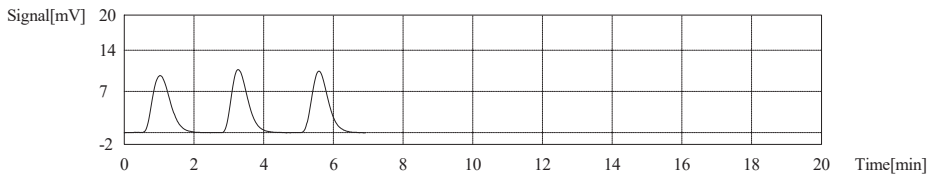
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.610mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.44	9.587mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:21:08 PM
2	34.60	9.632mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:24:00 PM
3	34.52	9.610mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:26:57 PM

Mean Area	34.52
Mean Conc.	9.610mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	05.10.2024.CAL.CELL.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03466mg/L

1. Det

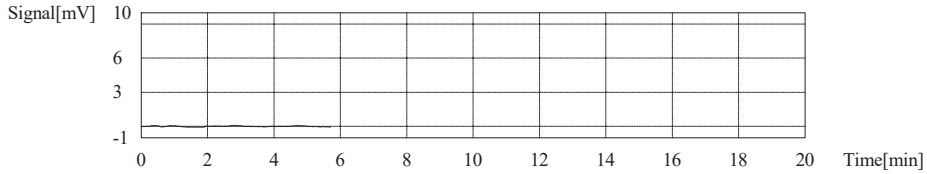
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2361	0.06573mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:41:06 PM
2	0.1374	0.03825mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:43:35 PM
3	0.000	0.000mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:46:04 PM

TOC-Control L Report

2024_05_10_001CAL.tlx

Mean Area	0.1245
Mean Conc.	0.03466mg/L



HS24050826 Wetchem TOC_W INJECT TABLE

ALS WO# HS24050826

C:\TOC-L\Data\2024_05_16_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes	Status
1	Unknown	NPOC	CCV	325103307	05.10.2024.	NPOC:25.03mg/L		Completed
2	Unknown	NPOC	CCB		05.10.2024.	NPOC:0.04576mg/		Completed
3	Unknown	NPOC	MBLK-05162024		05.10.2024.	NPOC:0.05467mg/		Completed
4	Unknown	NPOC	LCS-05162024	3100607917	05.10.2024.	NPOC:9.636mg/L		Completed
5	Unknown	NPOC	LCSD-05162024		05.10.2024.	NPOC:9.664mg/L		Completed
6	Unknown	NPOC	HS24050211-01		05.10.2024.	NPOC:2.017mg/L		Completed
7	Unknown	NPOC	HS24050211-01MS		05.10.2024.	NPOC:11.46mg/L		Completed
8	Unknown	NPOC	HS24050211-02		05.10.2024.	NPOC:4.263mg/L		Completed
9	Unknown	NPOC	HS24050211-03		05.10.2024.	NPOC:3.434mg/L		Completed
10	Unknown	NPOC	HS24050211-04		05.10.2024.	NPOC:2.413mg/L		Completed
11	Unknown	NPOC	HS24050211-05		05.10.2024.	NPOC:3.737mg/L		Completed
12	Unknown	NPOC	HS24050444-01		05.10.2024.	NPOC:3.385mg/L		Completed
13	Unknown	NPOC	CCV	325103307	05.10.2024.	NPOC:25.02mg/L		Completed
14	Unknown	NPOC	CCB		05.10.2024.	NPOC:0.6661mg/L		Completed
15	Unknown	NPOC	HS24050826-01		05.10.2024.	NPOC:6.095mg/L		Completed
16	Unknown	NPOC	HS24050918-01		05.10.2024.	NPOC:13.15mg/L		Completed
17	Unknown	NPOC	HS24050485-02		05.10.2024.	NPOC:0.6402mg/L		Completed
18	Unknown	NPOC	HS24050496-01		05.10.2024.	NPOC:4.519mg/L		Completed
19	Unknown	NPOC	CCV	325103307	05.10.2024.	NPOC:25.12mg/L		Completed
20	Unknown	NPOC	CCB		05.10.2024.	NPOC:0.07552mg/		Completed
21	Unknown	NPOC	MBLK-05162024		05.10.2024.	NPOC:0.05861mg/		Completed
22	Unknown	NPOC	LCS-05162024	3100607917	05.10.2024.	NPOC:9.633mg/L		Completed
23	Unknown	NPOC	LCSD-05162024		05.10.2024.	NPOC:9.626mg/L		Completed
24	Unknown	NPOC	HS24050511-01		05.10.2024.	NPOC:5.972mg/L		Completed
25	Unknown	NPOC	HS24050511-01MS		05.10.2024.	NPOC:15.14mg/L		Completed
26	Unknown	NPOC	HS24050511-02		05.10.2024.	NPOC:5.475mg/L		Completed
27	Unknown	NPOC	HS24050511-03		05.10.2024.	NPOC:6.772mg/L		Completed
28	Unknown	NPOC	HS24050511-04		05.10.2024.	NPOC:5.082mg/L		Completed
29	Unknown	NPOC	HS24050511-05		05.10.2024.	NPOC:6.226mg/L		Completed
30	Unknown	NPOC	HS24050611-02		05.10.2024.	NPOC:18.28mg/L		Completed
31	Unknown	NPOC	CCV	325103307	05.10.2024.	NPOC:25.06mg/L		Completed
32	Unknown	NPOC	CCB		05.10.2024.	NPOC:0.07582mg/		Completed
33	Unknown	NPOC	HS24050634-01		05.10.2024.	NPOC:0.8228mg/L		Completed
34	Unknown	NPOC	HS24050649-01		05.10.2024.	NPOC:6.465mg/L		Completed
35	Unknown	NPOC	HS24050674-01		05.10.2024.	NPOC:9.233mg/L		Completed
36	Unknown	NPOC	HS24050797-01		05.10.2024.	NPOC:0.1185mg/L		Completed
37	Unknown	NPOC	CCV	325103307	05.10.2024.	NPOC:25.04mg/L		Completed
38	Unknown	NPOC	CCB		05.10.2024.	NPOC:0.07370mg/		Completed

	Date / Time	Vial
1	5/16/2024 5:10:18 PM	1
2	5/16/2024 5:31:37 PM	2
3	5/16/2024 5:41:39 PM	3
4	5/16/2024 6:23:10 PM	4
5	5/16/2024 6:33:19 PM	5
6	5/16/2024 6:42:45 PM	6
7	5/16/2024 6:53:37 PM	7
8	5/16/2024 7:03:22 PM	8
9	5/16/2024 7:13:07 PM	9
10	5/16/2024 7:22:50 PM	10
11	5/16/2024 7:35:33 PM	11
12	5/16/2024 7:47:48 PM	12
13	5/16/2024 8:27:26 PM	1
14	5/16/2024 8:36:19 PM	2
15	5/16/2024 8:56:00 PM	13
16	5/16/2024 9:06:38 PM	14
17	5/16/2024 9:15:31 PM	15
18	5/16/2024 9:26:00 PM	16
19	5/16/2024 10:05:54 PM	1
20	5/16/2024 10:14:49 PM	2
21	5/16/2024 10:24:53 PM	3
22	5/16/2024 10:36:00 PM	4
23	5/16/2024 10:45:39 PM	5
24	5/16/2024 11:05:26 PM	17
25	5/16/2024 11:15:51 PM	18
26	5/16/2024 11:25:23 PM	19
27	5/16/2024 11:35:41 PM	20
28	5/16/2024 11:46:37 PM	21
29	5/16/2024 11:56:23 PM	22
30	5/17/2024 12:07:28 AM	23
31	5/17/2024 12:47:01 AM	24
32	5/17/2024 12:55:53 AM	25
33	5/17/2024 1:05:57 AM	26
34	5/17/2024 1:25:55 AM	27
35	5/17/2024 1:36:09 AM	28
36	5/17/2024 1:45:18 AM	29
37	5/17/2024 2:24:45 AM	24
38	5/17/2024 2:33:37 AM	25

HS24050826 Wetchem TOC_W INJECT

ALS WO# HS24050826

TOC-Control L Report

2024_05_16_002.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/Sparge Kit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325103307
Origin: 05.10.2024.CAL.CELL.cal
Status: Completed
Chk. Result

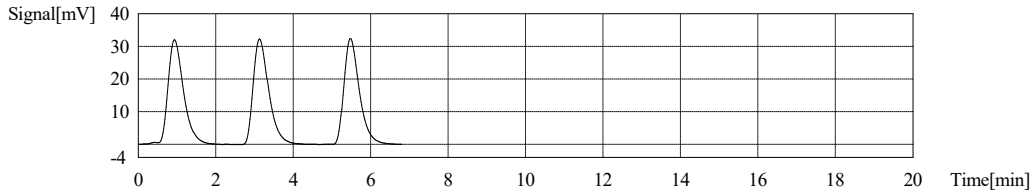
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.03mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.19	25.11mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:04:34 PM
2	89.81	25.00mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:07:28 PM
3	89.74	24.98mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:10:18 PM

Mean Area 89.91
Mean Conc. 25.03mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04576mg/L

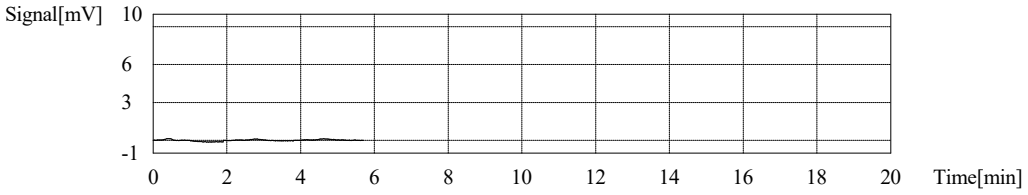
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3086	0.08591mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:26:40 PM
2	0.1845	0.05136mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:29:08 PM
3	0.000	0.000mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:31:37 PM

TOC-Control L Report

Mean Area 0.1644
Mean Conc. 0.04576mg/L



Sample

Sample Name: MBLK-05162024
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

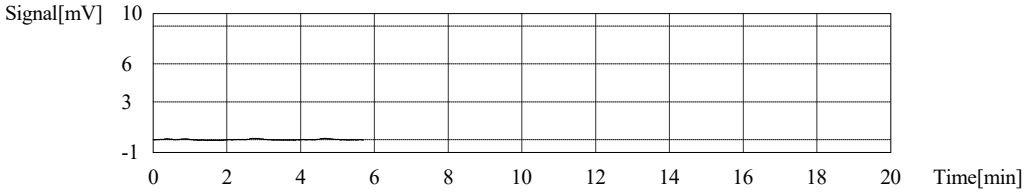
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05467mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.09240	0.02572mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:36:43 PM
2	0.1826	0.05083mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:39:11 PM
3	0.3142	0.08747mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 5:41:39 PM

Mean Area 0.1964
Mean Conc. 0.05467mg/L



Sample

Sample Name: LCS-05162024
Sample ID: 3100607917
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.636mg/L

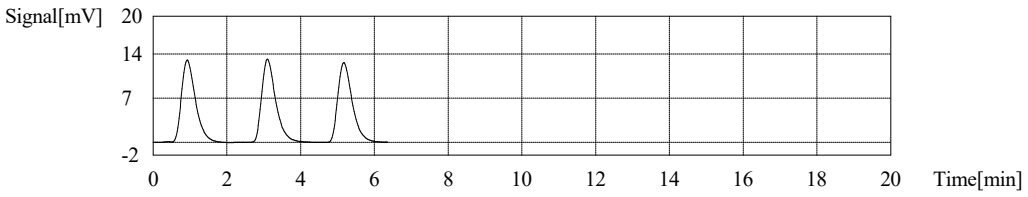
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.85	9.702mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:17:50 PM
2	34.67	9.651mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:20:28 PM
3	34.32	9.554mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:23:10 PM

TOC-Control L Report

Mean Area 34.61
Mean Conc. 9.636mg/L



Sample

Sample Name: LCSD-05162024
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

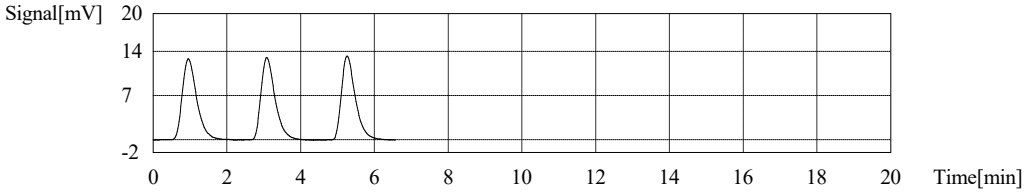
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.664mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.81	9.690mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:27:45 PM
2	34.63	9.640mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:30:31 PM
3	34.71	9.663mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:33:19 PM

Mean Area 34.72
Mean Conc. 9.664mg/L



Sample

Sample Name: HS24050211-01MS
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.46mg/L

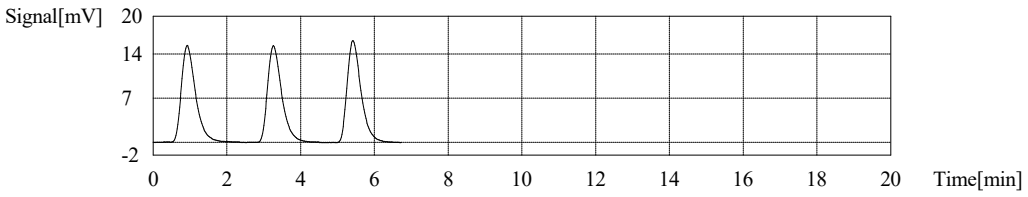
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.72	11.34mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:48:03 PM
2	40.59	11.30mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:50:48 PM
3	42.23	11.76mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 6:53:37 PM

TOC-Control L Report

Mean Area 41.18
Mean Conc. 11.46mg/L



Sample

Sample Name: CCV
Sample ID: 325103307
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

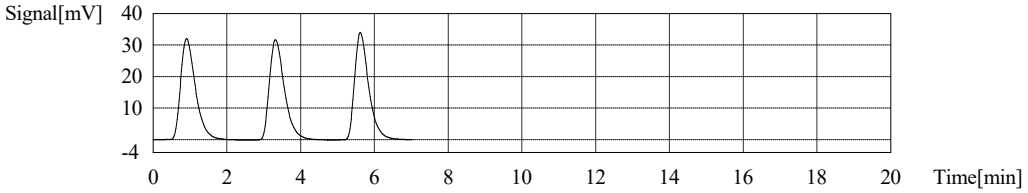
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.02mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.93	25.03mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:21:39 PM
2	89.58	24.94mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:24:33 PM
3	90.09	25.08mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:27:26 PM

Mean Area 89.87
Mean Conc. 25.02mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6661mg/L

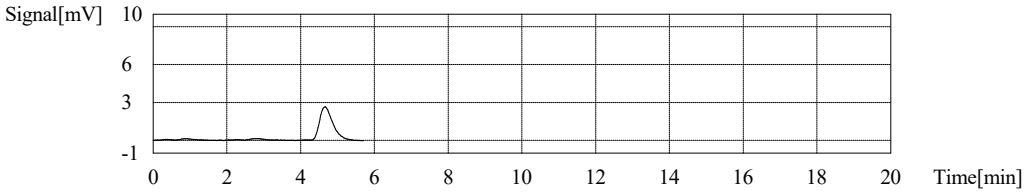
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2297	0.06394mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:31:21 PM
2	0.2915	0.08115mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:33:50 PM
3	6.657	1.853mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:36:19 PM

TOC-Control L Report

Mean Area 2.393
Mean Conc. 0.6661mg/L



Sample

Sample Name: HS24050826-01
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

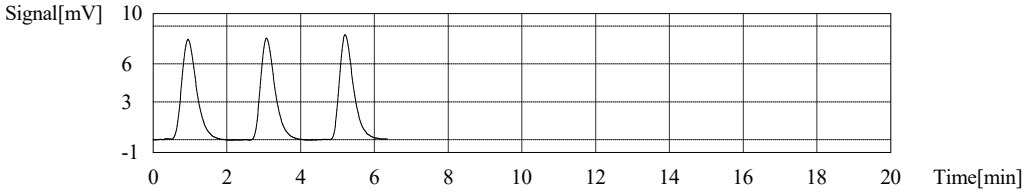
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.095mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.11	6.155mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:50:38 PM
2	21.75	6.055mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:53:22 PM
3	21.82	6.074mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 8:56:00 PM

Mean Area 21.89
Mean Conc. 6.095mg/L



Sample

Sample Name: CCV
Sample ID: 325103307
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.12mg/L

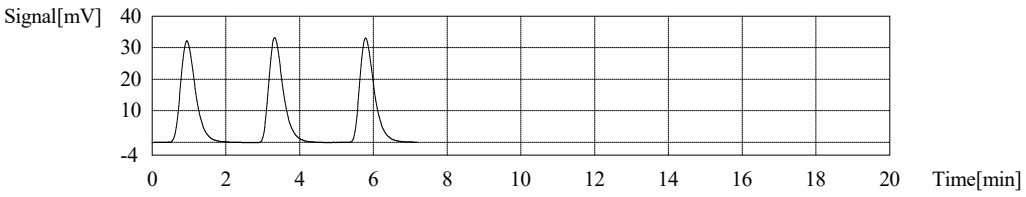
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.37	25.16mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 9:59:58 PM
2	90.08	25.08mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 10:03:01 PM
3	90.23	25.12mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 10:05:54 PM

TOC-Control L Report

Mean Area 90.23
Mean Conc. 25.12mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

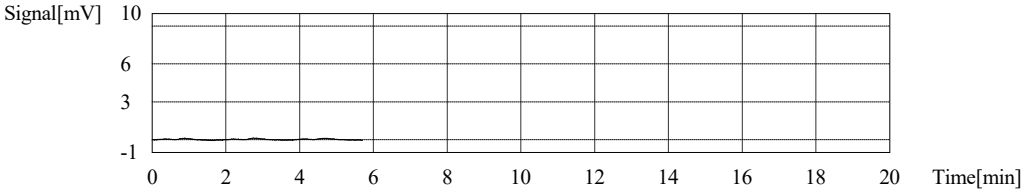
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07552mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3313	0.09223mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 10:09:51 PM
2	0.2637	0.07341mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 10:12:20 PM
3	0.2189	0.06094mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/16/2024 10:14:49 PM

Mean Area 0.2713
Mean Conc. 0.07552mg/L



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alsglobal.com

right solutions.
right partner.

WorkOrder: HS24050838

Groundwater Treatment Plant Bi-Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

17-Jun-2024

WorkOrder: HS24050838

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ALS Group USA, Corp
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ALS WO# HS24050838

HS24050838 Groundwater Treatment Plant BiWeekly Samples Final

ALS WO# HS24050838

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May 20, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24050838**

Laboratory Results for: **Groundwater Treatment Plant Bi-Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on May 15, 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: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 20-May-24

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

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050838-01	LH18/24-SP650_051424	Water		14-May-2024 13:00	15-May-2024 09:25	☐
HS24050838-02	Trip Blank	Water	CG-111123-465	14-May-2024 00:00	15-May-2024 09:25	☐

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Bi-Weekly Samples
Work Order: HS24050838

GCMS Volatiles by Method SW8260

Batch ID: R467121

Sample ID: HS24050989-08MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SW9056

Batch ID: R467122

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24050838
Sample ID: LH18/24-SP650_051424 Lab ID:HS24050838-01
Collection Date: 14-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	18-May-2024 05:49
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-May-2024 05:49
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-May-2024 05:49
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-May-2024 05:49
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-May-2024 05:49
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-May-2024 05:49
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:49
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24050838

Sample ID: LH18/24-SP650_051424 Lab ID:HS24050838-01

Collection Date: 14-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	18-May-2024 05:49
cis-1,2-Dichloroethene	**1.9**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-May-2024 05:49
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-May-2024 05:49
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-May-2024 05:49
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-May-2024 05:49
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:49
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:49
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:49
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*18-May-2024 05:49*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*1*	*18-May-2024 05:49*
Surr: Dibromofluoromethane	*110*			**0**	*80-119*	*%REC*	*1*	*18-May-2024 05:49*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*18-May-2024 05:49*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**833**		**4.00**	**5.00**	**10.0**	**mg/L**	20	18-May-2024 09:09
Sulfate	**51.6**		**0.200**	**0.250**	**0.500**	**mg/L**	1	18-May-2024 09:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24050838

Sample ID: Trip Blank Lab ID:HS24050838-02

Collection Date: 14-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	18-May-2024 05:28
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-May-2024 05:28
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-May-2024 05:28
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-May-2024 05:28
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-May-2024 05:28
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-May-2024 05:28
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-May-2024 05:28
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24050838

Sample ID: Trip Blank Lab ID:HS24050838-02

Collection Date: 14-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	18-May-2024 05:28
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-May-2024 05:28
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-May-2024 05:28
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-May-2024 05:28
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-May-2024 05:28
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-May-2024 05:28
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Trichlorofluoromethane	**3.0**		**0.30**	**1.0**	**1.0**	**ug/L**	1	18-May-2024 05:28
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-May-2024 05:28
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*1*	*18-May-2024 05:28*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*1*	*18-May-2024 05:28*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*18-May-2024 05:28*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*18-May-2024 05:28*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-May-24

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

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467121 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24050838-01	LH18/24-SP650_051424	14 May 2024 13:00			18 May 2024 05:49	1
HS24050838-02	Trip Blank	14 May 2024 00:00			18 May 2024 05:28	1
Batch ID: R467122 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24050838-01	LH18/24-SP650_051424	14 May 2024 13:00			18 May 2024 09:38	1
HS24050838-01	LH18/24-SP650_051424	14 May 2024 13:00			18 May 2024 09:09	20

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240518** Units: **ug/L** Analysis Date: **18-May-2024 05:06**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018031** 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

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240518** Units: **ug/L** Analysis Date: **18-May-2024 05:06**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018031** 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	*55.43*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.07*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*54.06*	*35*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*55.34*	*35*	*50*	*0*	*111*	*89 - 112*				

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240518** Units: **ug/L** Analysis Date: **18-May-2024 04:23**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018030** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.32	1.0	20	0	96.6	78 - 124				
1,1,1-Trichloroethane	18.45	1.0	20	0	92.3	74 - 131				
1,1,2,2-Tetrachloroethane	17.85	1.0	20	0	89.3	71 - 121				
1,1,2-Trichloroethane	20.2	1.0	20	0	101	80 - 119				
1,1-Dichloroethane	19.39	1.0	20	0	97.0	77 - 125				
1,1-Dichloroethene	19.57	1.0	20	0	97.8	71 - 131				
1,1-Dichloropropene	19.92	1.0	20	0	99.6	78 - 125				
1,2,3-Trichlorobenzene	19.6	1.0	20	0	98.0	69 - 129				
1,2,3-Trichloropropane	18.36	1.0	20	0	91.8	73 - 122				
1,2,4-Trichlorobenzene	18.31	1.0	20	0	91.6	69 - 130				
1,2,4-Trimethylbenzene	18.85	1.0	20	0	94.3	76 - 124				
1,2-Dibromo-3-chloropropane	15.85	1.0	20	0	79.2	62 - 128				
1,2-Dibromoethane	20.01	1.0	20	0	100	77 - 121				
1,2-Dichlorobenzene	19.4	1.0	20	0	97.0	80 - 119				
1,2-Dichloroethane	19.81	1.0	20	0	99.0	73 - 128				
1,2-Dichloropropane	19.89	1.0	20	0	99.4	78 - 122				
1,3,5-Trimethylbenzene	19.34	1.0	20	0	96.7	75 - 124				
1,3-Dichlorobenzene	19.17	1.0	20	0	95.8	80 - 119				
1,3-Dichloropropane	19.53	1.0	20	0	97.6	80 - 119				
1,4-Dichlorobenzene	19.17	1.0	20	0	95.8	79 - 118				
2,2-Dichloropropane	15.24	1.0	20	0	76.2	60 - 139				
2-Butanone	39.73	2.0	40	0	99.3	56 - 143				
2-Chlorotoluene	19.67	1.0	20	0	98.3	79 - 122				
2-Hexanone	38.3	2.0	40	0	95.8	57 - 139				
4-Chlorotoluene	19.8	1.0	20	0	99.0	78 - 122				
4-Isopropyltoluene	19.63	1.0	20	0	98.2	77 - 127				
4-Methyl-2-pentanone	36.65	2.0	40	0	91.6	67 - 130				
Acetone	50.9	2.0	40	0	127	39 - 160				
Benzene	19.58	1.0	20	0	97.9	79 - 120				
Bromobenzene	19.77	1.0	20	0	98.8	80 - 120				
Bromochloromethane	19.15	1.0	20	0	95.8	78 - 123				
Bromodichloromethane	18.9	1.0	20	0	94.5	79 - 125				
Bromoform	16	1.0	20	0	80.0	66 - 130				
Bromomethane	26.41	1.0	20	0	132	53 - 141				

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240518** Units: **ug/L** Analysis Date: **18-May-2024 04:23**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018030** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	39.24	2.0	40	0	98.1	64 - 133				
Carbon tetrachloride	18.58	1.0	20	0	92.9	72 - 136				
Chlorobenzene	19.09	1.0	20	0	95.4	82 - 118				
Chloroethane	19.46	1.0	20	0	97.3	60 - 138				
Chloroform	19.72	1.0	20	0	98.6	79 - 124				
Chloromethane	14.29	1.0	20	0	71.4	50 - 139				
cis-1,2-Dichloroethene	18.98	1.0	20	0	94.9	78 - 123				
cis-1,3-Dichloropropene	17.97	1.0	20	0	89.8	75 - 124				
Dibromochloromethane	18.06	1.0	20	0	90.3	74 - 126				
Dibromomethane	19.52	1.0	20	0	97.6	79 - 123				
Dichlorodifluoromethane	19.06	1.0	20	0	95.3	32 - 152				
Ethylbenzene	19.77	1.0	20	0	98.8	79 - 121				
Hexachlorobutadiene	19.02	1.0	20	0	95.1	66 - 134				
Isopropylbenzene	20.09	1.0	20	0	100	72 - 131				
m,p-Xylene	40.01	2.0	40	0	100	80 - 121				
Methylene chloride	18.06	2.0	20	0	90.3	74 - 124				
Naphthalene	17.98	1.0	20	0	89.9	61 - 128				
n-Butylbenzene	17.45	1.0	20	0	87.3	75 - 128				
n-Propylbenzene	20.34	1.0	20	0	102	76 - 126				
o-Xylene	19.83	1.0	20	0	99.2	78 - 122				
sec-Butylbenzene	19.81	1.0	20	0	99.0	77 - 126				
Styrene	20.09	1.0	20	0	100	78 - 123				
tert-Butylbenzene	20.64	1.0	20	0	103	78 - 124				
Tetrachloroethene	19.2	1.0	20	0	96.0	74 - 129				
Toluene	19.19	1.0	20	0	95.9	80 - 121				
trans-1,2-Dichloroethene	18.38	1.0	20	0	91.9	75 - 124				
trans-1,3-Dichloropropene	17.63	1.0	20	0	88.2	73 - 127				
Trichloroethene	21.23	1.0	20	0	106	79 - 123				
Trichlorofluoromethane	18.92	1.0	20	0	94.6	65 - 141				
Vinyl chloride	20	1.0	20	0	100	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.32*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.73*	*35*	*50*	*0*	*109*	*85 - 114*				
Surr: Dibromofluoromethane	*56.98*	*35*	*50*	*0*	*114*	*80 - 119*				
Surr: Toluene-d8	*55.66*	*35*	*50*	*0*	*111*	*89 - 112*				

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24050989-08MS** Units: **ug/L** Analysis Date: **18-May-2024 06:33**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018035** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.29	1.0	20	0	96.5	78 - 124				
1,1,1-Trichloroethane	20.37	1.0	20	0	102	74 - 131				
1,1,2,2-Tetrachloroethane	20.6	1.0	20	0	103	71 - 121				
1,1,2-Trichloroethane	20.5	1.0	20	0	102	80 - 119				
1,1-Dichloroethane	20.83	1.0	20	0.6309	101	77 - 125				
1,1-Dichloroethene	21.14	1.0	20	0	106	71 - 131				
1,1-Dichloropropene	21.34	1.0	20	0	107	78 - 125				
1,2,3-Trichlorobenzene	18.66	1.0	20	0	93.3	69 - 129				
1,2,3-Trichloropropane	18.48	1.0	20	0	92.4	73 - 122				
1,2,4-Trichlorobenzene	17.32	1.0	20	0	86.6	69 - 130				
1,2,4-Trimethylbenzene	22.02	1.0	20	2.226	99.0	76 - 124				
1,2-Dibromo-3-chloropropane	17.52	1.0	20	0	87.6	62 - 128				
1,2-Dibromoethane	20.13	1.0	20	0	101	77 - 121				
1,2-Dichlorobenzene	19.18	1.0	20	0	95.9	80 - 119				
1,2-Dichloroethane	20.22	1.0	20	0	101	73 - 128				
1,2-Dichloropropane	19.47	1.0	20	0	97.3	78 - 122				
1,3,5-Trimethylbenzene	22.82	1.0	20	2.109	104	75 - 124				
1,3-Dichlorobenzene	18.76	1.0	20	0	93.8	80 - 119				
1,3-Dichloropropane	20.06	1.0	20	0	100	80 - 119				
1,4-Dichlorobenzene	18.76	1.0	20	0	93.8	79 - 118				
2,2-Dichloropropane	14.35	1.0	20	0	71.7	60 - 139				
2-Butanone	39.2	2.0	40	0	98.0	56 - 143				
2-Chlorotoluene	20.37	1.0	20	0	102	79 - 122				
2-Hexanone	47.1	2.0	40	0	118	57 - 139				
4-Chlorotoluene	20.09	1.0	20	0	100	78 - 122				
4-Isopropyltoluene	20.96	1.0	20	0	105	77 - 127				
4-Methyl-2-pentanone	46.27	2.0	40	0	116	67 - 130				
Acetone	36.19	2.0	40	0	90.5	39 - 160				
Benzene	23.52	1.0	20	3.172	102	79 - 120				
Bromobenzene	19.77	1.0	20	0	98.8	80 - 120				
Bromochloromethane	19.6	1.0	20	0	98.0	78 - 123				
Bromodichloromethane	18.94	1.0	20	0	94.7	79 - 125				
Bromoform	15.79	1.0	20	0	78.9	66 - 130				
Bromomethane	28.54	1.0	20	0	143	53 - 141				S

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24050989-08MS** Units: **ug/L** Analysis Date: **18-May-2024 06:33**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018035** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	41.04	2.0	40	0	103	64 - 133				
Carbon tetrachloride	19.84	1.0	20	0	99.2	72 - 136				
Chlorobenzene	19.57	1.0	20	0	97.9	82 - 118				
Chloroethane	22.33	1.0	20	0	112	60 - 138				
Chloroform	20.09	1.0	20	0	100	79 - 124				
Chloromethane	13.21	1.0	20	0	66.1	50 - 139				
cis-1,2-Dichloroethene	22.05	1.0	20	2.408	98.2	78 - 123				
cis-1,3-Dichloropropene	16.91	1.0	20	0	84.5	75 - 124				
Dibromochloromethane	17.31	1.0	20	0	86.5	74 - 126				
Dibromomethane	19.12	1.0	20	0	95.6	79 - 123				
Dichlorodifluoromethane	20.37	1.0	20	0	102	32 - 152				
Ethylbenzene	25.62	1.0	20	3.948	108	79 - 121				
Hexachlorobutadiene	17.49	1.0	20	0	87.4	66 - 134				
Isopropylbenzene	22.26	1.0	20	0.8409	107	72 - 131				
m,p-Xylene	49.61	2.0	40	7.553	105	80 - 121				
Methylene chloride	18.14	2.0	20	0	90.7	74 - 124				
Naphthalene	24.07	1.0	20	3.902	101	61 - 128				
n-Butylbenzene	18.13	1.0	20	0	90.6	75 - 128				
n-Propylbenzene	22.72	1.0	20	1.256	107	76 - 126				
o-Xylene	25.25	1.0	20	4.433	104	78 - 122				
sec-Butylbenzene	21.46	1.0	20	0.6593	104	77 - 126				
Styrene	19.86	1.0	20	0	99.3	78 - 123				
tert-Butylbenzene	21.69	1.0	20	0	108	78 - 124				
Tetrachloroethene	20.12	1.0	20	0	101	74 - 129				
Toluene	42.81	1.0	20	20.67	111	80 - 121				
trans-1,2-Dichloroethene	19.61	1.0	20	0	98.1	75 - 124				
trans-1,3-Dichloropropene	16.78	1.0	20	0	83.9	73 - 127				
Trichloroethene	22.75	1.0	20	1.953	104	79 - 123				
Trichlorofluoromethane	21.17	1.0	20	0	106	65 - 141				
Vinyl chloride	21.97	1.0	20	0	110	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.74*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.42*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*56.2*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*58.71*	*35*	*50*	*0*	*117*	*89 - 112*				S

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24050989-08MSD** Units: **ug/L** Analysis Date: **18-May-2024 06:54**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018036** 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	18.53	1.0	20	0	92.7	78 - 124	19.29	4.04	20	
1,1,1-Trichloroethane	19.58	1.0	20	0	97.9	74 - 131	20.37	3.96	20	
1,1,2,2-Tetrachloroethane	19.71	1.0	20	0	98.5	71 - 121	20.6	4.44	20	
1,1,2-Trichloroethane	19.38	1.0	20	0	96.9	80 - 119	20.5	5.63	20	
1,1-Dichloroethane	20.37	1.0	20	0.6309	98.7	77 - 125	20.83	2.24	20	
1,1-Dichloroethene	20.45	1.0	20	0	102	71 - 131	21.14	3.31	20	
1,1-Dichloropropene	20.81	1.0	20	0	104	78 - 125	21.34	2.52	20	
1,2,3-Trichlorobenzene	18.02	1.0	20	0	90.1	69 - 129	18.66	3.49	20	
1,2,3-Trichloropropane	18.26	1.0	20	0	91.3	73 - 122	18.48	1.19	20	
1,2,4-Trichlorobenzene	17.19	1.0	20	0	86.0	69 - 130	17.32	0.742	20	
1,2,4-Trimethylbenzene	21.18	1.0	20	2.226	94.8	76 - 124	22.02	3.89	20	
1,2-Dibromo-3-chloropropane	17.7	1.0	20	0	88.5	62 - 128	17.52	1.04	20	
1,2-Dibromoethane	19.44	1.0	20	0	97.2	77 - 121	20.13	3.48	20	
1,2-Dichlorobenzene	18.68	1.0	20	0	93.4	80 - 119	19.18	2.62	20	
1,2-Dichloroethane	19.99	1.0	20	0	100.0	73 - 128	20.22	1.11	20	
1,2-Dichloropropane	19.19	1.0	20	0	95.9	78 - 122	19.47	1.46	20	
1,3,5-Trimethylbenzene	21.67	1.0	20	2.109	97.8	75 - 124	22.82	5.15	20	
1,3-Dichlorobenzene	18.17	1.0	20	0	90.8	80 - 119	18.76	3.2	20	
1,3-Dichloropropane	19.25	1.0	20	0	96.3	80 - 119	20.06	4.1	20	
1,4-Dichlorobenzene	18.17	1.0	20	0	90.8	79 - 118	18.76	3.2	20	
2,2-Dichloropropane	14.11	1.0	20	0	70.6	60 - 139	14.35	1.65	20	
2-Butanone	38.96	2.0	40	0	97.4	56 - 143	39.2	0.612	20	
2-Chlorotoluene	19.61	1.0	20	0	98.1	79 - 122	20.37	3.81	20	
2-Hexanone	46.87	2.0	40	0	117	57 - 139	47.1	0.476	20	
4-Chlorotoluene	19.31	1.0	20	0	96.5	78 - 122	20.09	3.97	20	
4-Isopropyltoluene	19.74	1.0	20	0	98.7	77 - 127	20.96	6	20	
4-Methyl-2-pentanone	46.09	2.0	40	0	115	67 - 130	46.27	0.384	20	
Acetone	35.83	2.0	40	0	89.6	39 - 160	36.19	0.995	20	
Benzene	23.01	1.0	20	3.172	99.2	79 - 120	23.52	2.19	20	
Bromobenzene	19.21	1.0	20	0	96.1	80 - 120	19.77	2.83	20	
Bromochloromethane	18.77	1.0	20	0	93.9	78 - 123	19.6	4.3	20	
Bromodichloromethane	18.39	1.0	20	0	91.9	79 - 125	18.94	2.95	20	
Bromoform	16.12	1.0	20	0	80.6	66 - 130	15.79	2.1	20	
Bromomethane	26.25	1.0	20	0	131	53 - 141	28.54	8.37	20	

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467121 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24050989-08MSD** Units: **ug/L** Analysis Date: **18-May-2024 06:54**
Client ID: Run ID: **VOA9_467121** SeqNo: **8018036** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	40.07	2.0	40	0	100	64 - 133	41.04	2.4	20	
Carbon tetrachloride	19.53	1.0	20	0	97.6	72 - 136	19.84	1.59	20	
Chlorobenzene	19.07	1.0	20	0	95.3	82 - 118	19.57	2.61	20	
Chloroethane	20.27	1.0	20	0	101	60 - 138	22.33	9.65	20	
Chloroform	19.64	1.0	20	0	98.2	79 - 124	20.09	2.27	20	
Chloromethane	13.15	1.0	20	0	65.8	50 - 139	13.21	0.442	20	
cis-1,2-Dichloroethene	21.67	1.0	20	2.408	96.3	78 - 123	22.05	1.72	20	
cis-1,3-Dichloropropene	16.78	1.0	20	0	83.9	75 - 124	16.91	0.781	20	
Dibromochloromethane	17.2	1.0	20	0	86.0	74 - 126	17.31	0.64	20	
Dibromomethane	19.25	1.0	20	0	96.2	79 - 123	19.12	0.66	20	
Dichlorodifluoromethane	19.92	1.0	20	0	99.6	32 - 152	20.37	2.22	20	
Ethylbenzene	24.45	1.0	20	3.948	103	79 - 121	25.62	4.65	20	
Hexachlorobutadiene	16.63	1.0	20	0	83.2	66 - 134	17.49	4.99	20	
Isopropylbenzene	21.66	1.0	20	0.8409	104	72 - 131	22.26	2.73	20	
m,p-Xylene	48.4	2.0	40	7.553	102	80 - 121	49.61	2.48	20	
Methylene chloride	17.67	2.0	20	0	88.4	74 - 124	18.14	2.61	20	
Naphthalene	23.94	1.0	20	3.902	100	61 - 128	24.07	0.557	20	
n-Butylbenzene	17.45	1.0	20	0	87.3	75 - 128	18.13	3.8	20	
n-Propylbenzene	21.58	1.0	20	1.256	102	76 - 126	22.72	5.16	20	
o-Xylene	24.88	1.0	20	4.433	102	78 - 122	25.25	1.49	20	
sec-Butylbenzene	20.57	1.0	20	0.6593	99.6	77 - 126	21.46	4.25	20	
Styrene	19.47	1.0	20	0	97.3	78 - 123	19.86	2.01	20	
tert-Butylbenzene	20.77	1.0	20	0	104	78 - 124	21.69	4.36	20	
Tetrachloroethene	19.71	1.0	20	0	98.5	74 - 129	20.12	2.06	20	
Toluene	41.56	1.0	20	20.67	104	80 - 121	42.81	2.95	20	
trans-1,2-Dichloroethene	19.33	1.0	20	0	96.6	75 - 124	19.61	1.48	20	
trans-1,3-Dichloropropene	16.77	1.0	20	0	83.9	73 - 127	16.78	0.0615	20	
Trichloroethene	22.26	1.0	20	1.953	102	79 - 123	22.75	2.16	20	
Trichlorofluoromethane	20.42	1.0	20	0	102	65 - 141	21.17	3.61	20	
Vinyl chloride	21.16	1.0	20	0	106	58 - 137	21.97	3.79	20	
Surr: 1,2-Dichloroethane-d4	*55.21*	*35*	*50*	*0*	*110*	*81 - 118*	*55.74*	*0.944*	*20*	
Surr: 4-Bromofluorobenzene	*55.49*	*35*	*50*	*0*	*111*	*85 - 114*	*56.42*	*1.65*	*20*	
Surr: Dibromofluoromethane	*55.25*	*35*	*50*	*0*	*110*	*80 - 119*	*56.2*	*1.71*	*20*	
Surr: Toluene-d8	*58.2*	*35*	*50*	*0*	*116*	*89 - 112*	*58.71*	*0.885*	*20*	S

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID:	**R467121 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24050838-01	HS24050838-02

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467122 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **18-May-2024 08:51**
Client ID: Run ID: **ICS-Integrion_467122** SeqNo: **8017904** 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: **18-May-2024 08:57**
Client ID: Run ID: **ICS-Integrion_467122** SeqNo: **8017905** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.77	0.500	20	0	104	80 - 120				
Sulfate	21.86	0.500	20	0	109	80 - 120				

MS Sample ID: **HS24050838-01MS** Units: **mg/L** Analysis Date: **18-May-2024 09:15**
Client ID: **LH18/24-SP650_051424** Run ID: **ICS-Integrion_467122** SeqNo: **8017907** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1036	10.0	200	833.2	101	80 - 120				O
Sulfate	263.3	10.0	200	49.64	107	80 - 120				

MS Sample ID: **HS24050586-04MS** Units: **mg/L** Analysis Date: **18-May-2024 10:25**
Client ID: Run ID: **ICS-Integrion_467122** SeqNo: **8017918** PrepDate: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14120	250	5000	9520	92.0	80 - 120				
Sulfate	5472	250	5000	102.2	107	80 - 120				

MSD Sample ID: **HS24050838-01MSD** Units: **mg/L** Analysis Date: **18-May-2024 09:20**
Client ID: **LH18/24-SP650_051424** Run ID: **ICS-Integrion_467122** SeqNo: **8017908** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1035	10.0	200	833.2	101	80 - 120	1036	0.0444	20	O
Sulfate	263.1	10.0	200	49.64	107	80 - 120	263.3	0.0752	20	

ALS Houston, US Date: 20-May-24

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

QC BATCH REPORT

Batch ID: R467122 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MSD Sample ID: **HS24050586-04MSD** Units: **mg/L** Analysis Date: **18-May-2024 10:31**
Client ID: Run ID: **ICS-Integrion_467122** SeqNo: **8017919** PrepDate: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14160	250	5000	9520	92.8	80 - 120	14120	0.279	20	
Sulfate	5498	250	5000	102.2	108	80 - 120	5472	0.475	20	

The following samples were analyzed in this batch: HS24050838-01

ALS Houston, US Date: 20-May-24

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

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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: 20-May-24

Sample Receipt Checklist

Work Order ID: HS24050838 **Date/Time Received:** 15-May-2024 09:25

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Paresh M. Giga (eSignature) 15-May-2024 12:26 (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):	2.8C/2.9C U/C	IR31
Cooler(s)/Kit(s):	49134	
Date/Time sample(s) sent to storage:	5/15/24 12:35	

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:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: James Guin

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. JVPCIBH.0001

Job:
GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

Prepared By: Scott Beesinger

P.O Number BILL to PCI

HS24050838

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

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC	Analyses: CHLORIDE, SULFATE	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_051424	Water	05/14/24 / 13:00		3	3										HCL	
LH18/24-SP650_05124	Water	05/14/24 / 13:00		1		1									NONE	
Trip Blank	Water	05/14/24		2	2										HCL	

Additional Remarks: **Standard TAT on all parameters**

Cooler# 401134 Temp 2.3 °C SM# 31 CF#10-1

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	05/14/24	13:30							Gm	05/15/24	08:25

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:\1-ces\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

u91134

CUSTODY SEAL

Date: 5/14/24 Time: 1330
Name: Scott Beesner
Company: BHATE

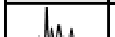
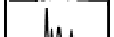
Seal Broken By:
Date: 05/15/24

u91134 MAY 15 2024

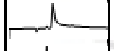
HS24050838 Wetchem 9056_anions_W

ALS WO# HS24050838

Sequence: 051824
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	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
	HS24050838-01DF20	REP	Unknown	RA1	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050838-01MSDF20	REP	Unknown	RA2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050838-01MSDDF	REP	Unknown	RA3	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050838-01	REP	Unknown	RA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	G3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050586-04MSDF50	REP	Unknown	RB3	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050586-04MSDDF	REP	Unknown	RB4	500.00		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		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 051824
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	Volume	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	4/3/2024 8:55:18 AM -05
Anions Processing Method ISO		STD2	5.0	Finished	4/3/2024 9:01:14 AM -05
Anions Processing Method ISO		STD3	5.0	Finished	4/3/2024 9:07:10 AM -05
Anions Processing Method ISO		STD4	5.0	Finished	4/3/2024 9:13:07 AM -05
Anions Processing Method ISO		STD5	5.0	Finished	4/3/2024 9:19:03 AM -05
Anions Processing Method ISO		STD6	5.0	Finished	4/3/2024 9:24:59 AM -05
Anions Processing Method ISO		ICV	5.0	Finished	4/3/2024 9:36:52 AM -05
Anions Processing Method ISO		ICB	5.0	Finished	4/3/2024 10:21:47 AM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/18/2024 8:33:54 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/18/2024 8:45:40 AM -0
Anions Processing Method ISO		MBLK	5.0	Finished	5/18/2024 8:51:33 AM -0
Anions Processing Method ISO		LCS	5.0	Finished	5/18/2024 8:57:26 AM -0
Anions Processing Method ISO		HS24050838-01DF20	5.0	Finished	5/18/2024 9:09:11 AM -0
Anions Processing Method ISO		HS24050838-01MSDF20	5.0	Finished	5/18/2024 9:15:04 AM -0
Anions Processing Method ISO		HS24050838-01MSDDF	5.0	Finished	5/18/2024 9:20:56 AM -0
Anions Processing Method ISO		HS24050838-01	5.0	Finished	5/18/2024 9:38:34 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/18/2024 9:56:23 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/18/2024 10:02:16 AM -
Anions Processing Method ISO		HS24050586-04MSDF50	5.0	Finished	5/18/2024 10:25:47 AM -
Anions Processing Method ISO		HS24050586-04MSDDF	5.0	Finished	5/18/2024 10:31:40 AM -
Anions Processing Method ISO		CCV	5.0	Finished	5/18/2024 11:12:50 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/18/2024 11:24:35 AM -
Anions Processing Method ISO		CCV1	5.0	Finished	5/18/2024 12:52:24 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/18/2024 1:04:10 PM -0

Sequence: 051824
Injection #6: STD6

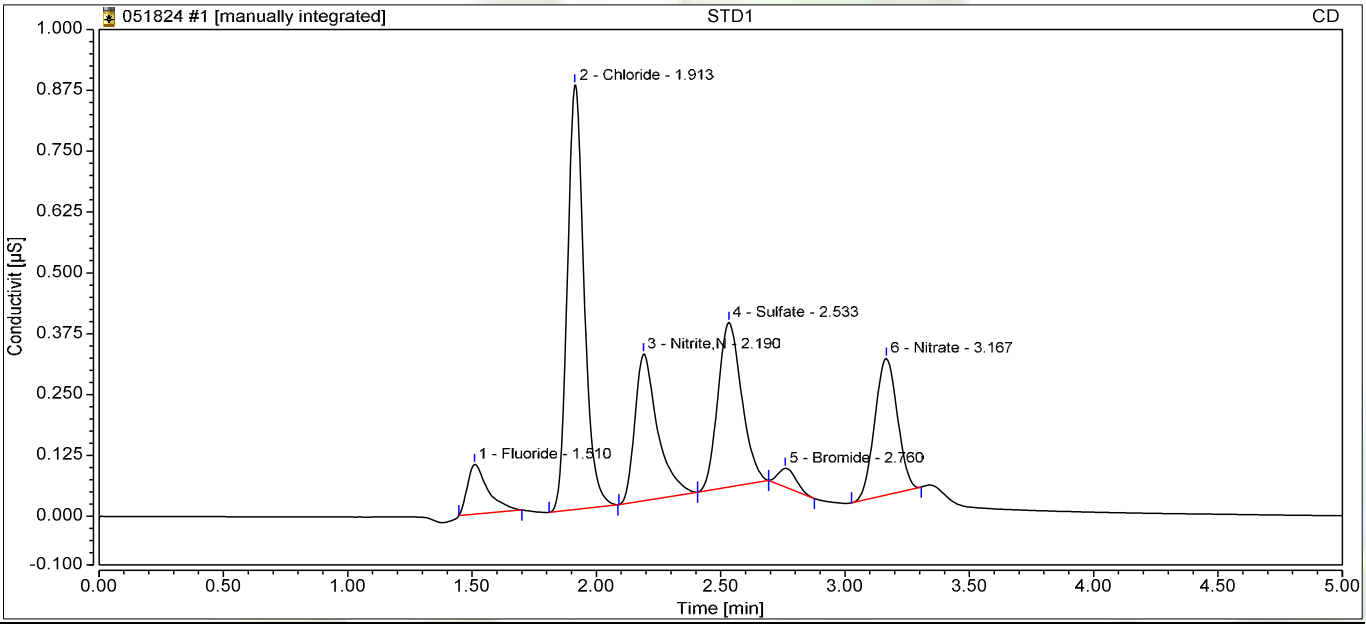
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***20.6898***	***0.99843***	***-0.0146***	***0.1949***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.4996	0.99990	-0.0096	0.1522	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	2.8239	0.99996	-0.0010	0.3209	-0.0035
4	Sulfate	Quad, WithOffset, 1/A	Area	6	6.9024	0.99984	-0.0083	0.0870	0.0001
5	Bromide	Quad, WithOffset, 1/A	Area	6	1.5271	0.99999	-0.0001	0.0340	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.7942	0.99983	-0.0032	0.3234	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	8.9029	0.99911	-0.0026	0.0210	-0.0003
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.0564	0.0307	0.0000
Maximum					**20.6898**	1.00000			
Minimum					1.5271	**0.99843**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*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:	**04/03/2024 08:55**	*Sample Weight:*	**1.0000**

Run Time:



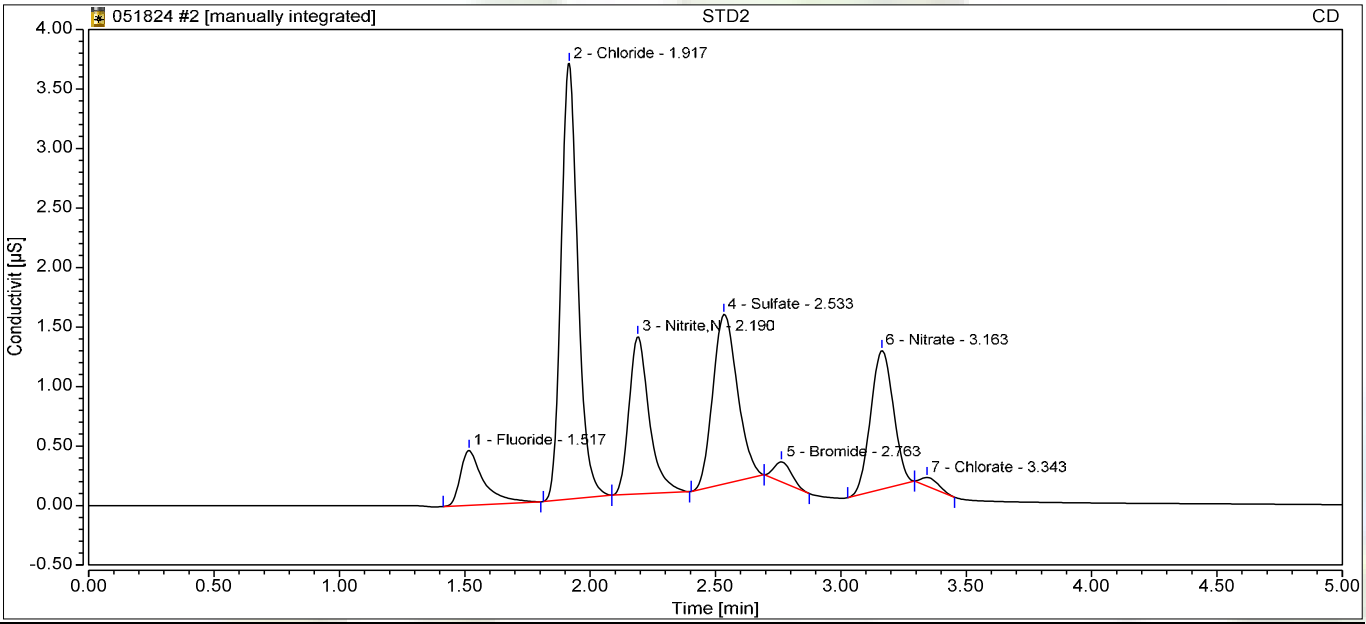
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB*	0.010	0.1255	0.1255	1.0000
2	1.91	Chloride	BMB	0.068	0.5104	0.5104	1.0000
3	2.19	Nitrite,N	BMB	0.032	0.1022	0.1022	1.0000
4	2.53	Sulfate	BMB	0.037	0.5258	0.5258	1.0000
5	2.76	Bromide	BMB	0.003	0.0977	0.0977	1.0000
6	3.17	Nitrate	BMB	0.030	0.1018	0.1018	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**	**0.180**		**1.46**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*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:	**04/03/2024 09:01**	*Sample Weight:*	**1.0000**

Run Time:



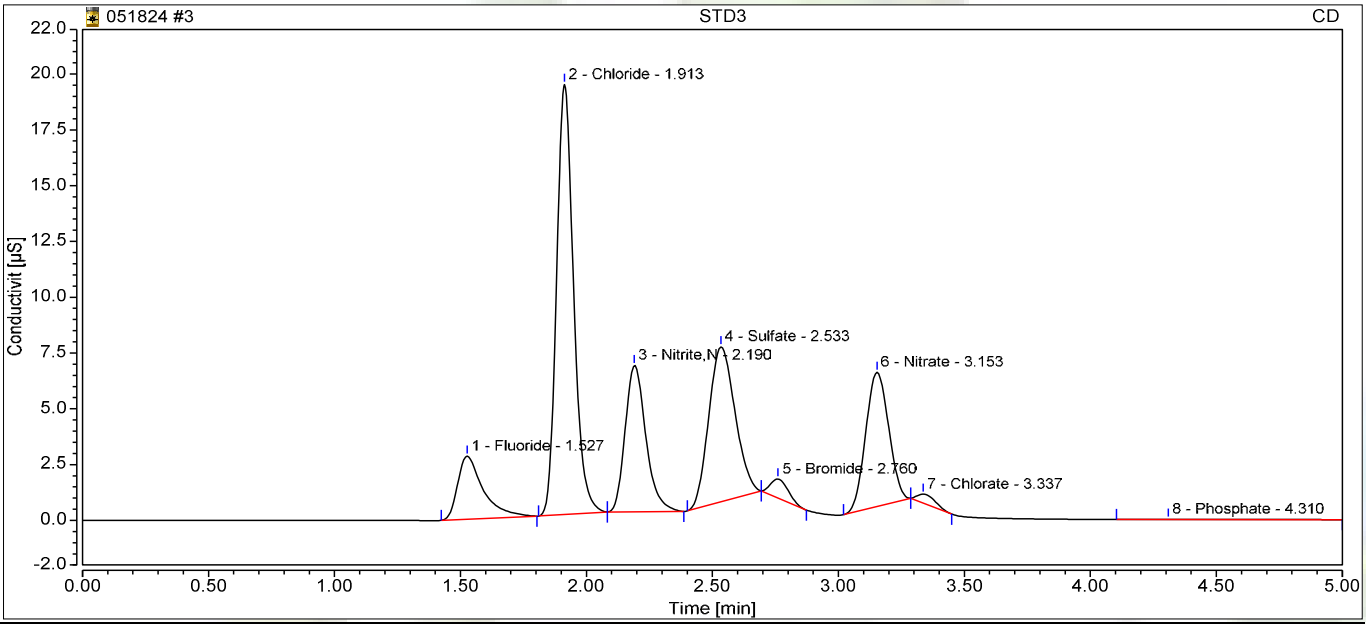
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.050	0.3309	0.3309	1.0000
2	1.92	Chloride	BMB	0.285	1.9321	1.9321	1.0000
3	2.19	Nitrite,N	BMB	0.124	0.3897	0.3897	1.0000
4	2.53	Sulfate	BMB	0.162	1.9522	1.9522	1.0000
5	2.76	Bromide	BMB	0.014	0.4090	0.4090	1.0000
6	3.16	Nitrate	BMB	0.122	0.3886	0.3886	1.0000
7	3.34	Chlorate	BMB	0.006	0.4212	0.4212	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.762**		**5.82**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*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:	**04/03/2024 09:07**	*Sample Weight:*	**1.0000**

Run Time:



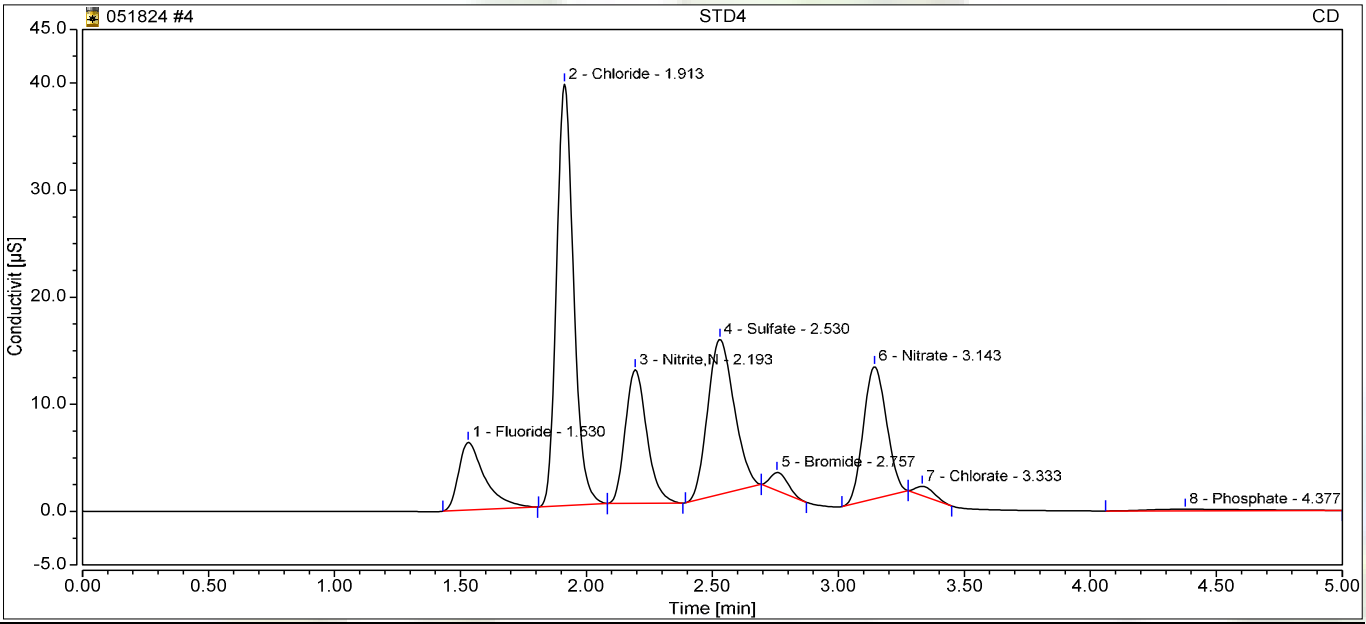
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.332	1.7778	1.7778	1.0000
2	1.91	Chloride	BMB	1.504	9.9432	9.9432	1.0000
3	2.19	Nitrite,N	BMB	0.625	1.9938	1.9938	1.0000
4	2.53	Sulfate	BMB	0.839	9.6367	9.6367	1.0000
5	2.76	Bromide	BMB	0.070	2.0082	2.0082	1.0000
6	3.15	Nitrate	BMB	0.637	1.9783	1.9783	1.0000
7	3.34	Chlorate	BMB	0.035	1.8534	1.8534	1.0000
8	4.31	Phosphate	BMB	0.005	2.0000	2.0000	1.0000
Total:			**0.000**	**4.046**		**31.19**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*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:	**04/03/2024 09:13**	*Sample Weight:*	**1.0000**

Run Time:



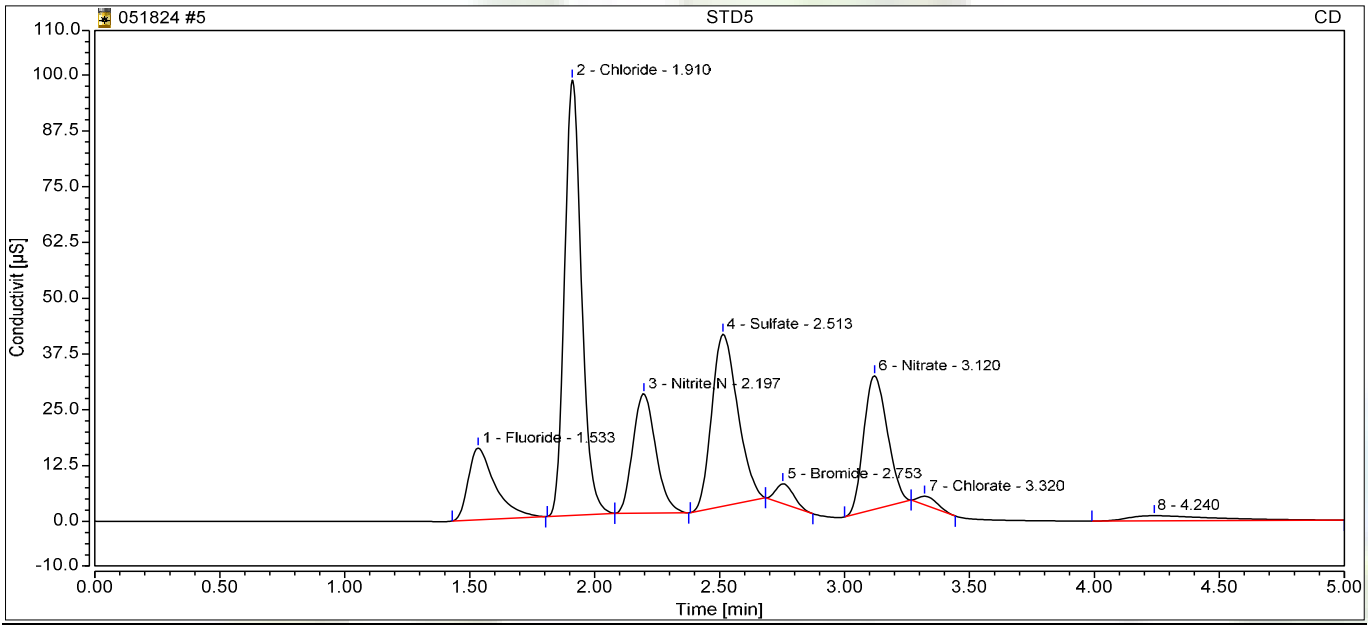
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.765	3.9993	3.9993	1.0000
2	1.91	Chloride	BMB	3.084	20.3219	20.3219	1.0000
3	2.19	Nitrite,N	BMB	1.239	4.0454	4.0454	1.0000
4	2.53	Sulfate	BMB	1.763	19.9326	19.9326	1.0000
5	2.76	Bromide	BMB	0.141	3.9866	3.9866	1.0000
6	3.14	Nitrate	BMB	1.311	4.0629	4.0629	1.0000
7	3.33	Chlorate	BMB	0.077	4.0038	4.0038	1.0000
8	4.38	Phosphate	BMB	0.067	4.0000	4.0000	1.0000
Total:			**0.000**	**8.445**		**64.35**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*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:	**04/03/2024 09:19**	*Sample Weight:*	**1.0000**

Run Time:



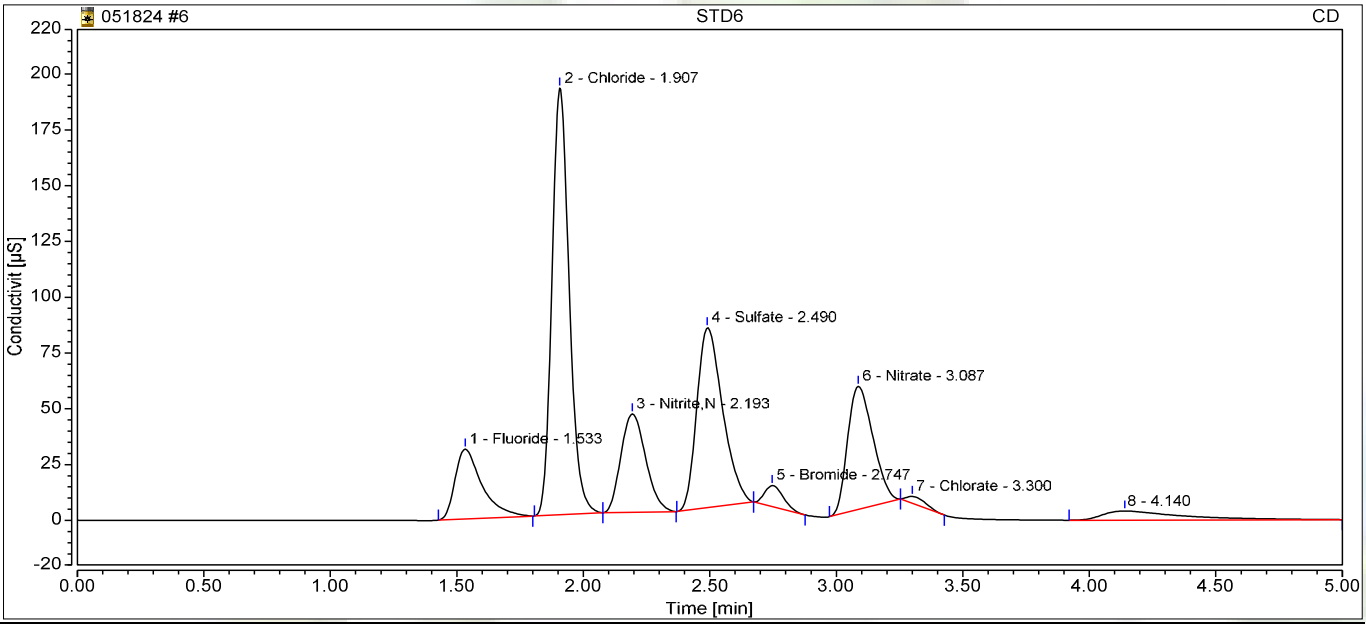
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.995	10.3144	10.3144	1.0000
2	1.91	Chloride	BMB	7.673	50.4728	50.4728	1.0000
3	2.20	Nitrite,N	BMB	2.842	9.9493	9.9493	1.0000
4	2.51	Sulfate	BMB	4.641	50.7445	50.7445	1.0000
5	2.75	Bromide	BMB	0.373	9.9956	9.9956	1.0000
6	3.12	Nitrate	BMB	3.281	10.1555	10.1555	1.0000
7	3.32	Chlorate	BMB	0.181	10.2906	10.2906	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**20.986**		**151.92**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*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:	**04/03/2024 09:24**	*Sample Weight:*	**1.0000**

Run Time:

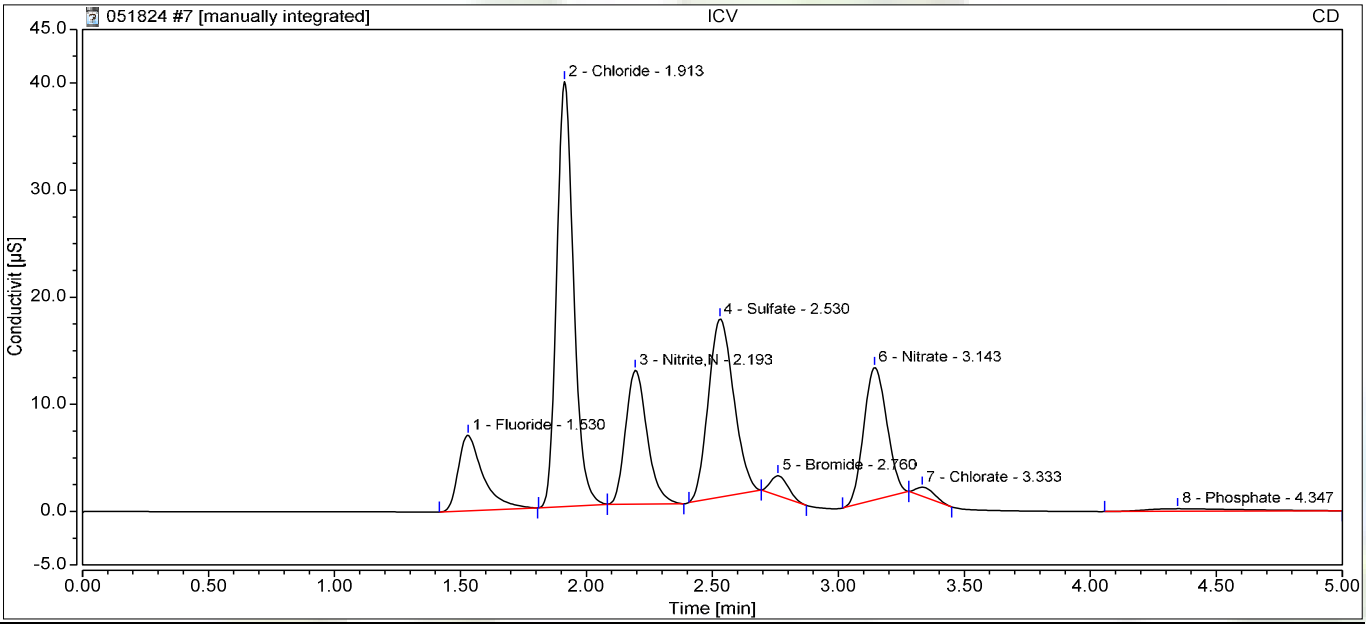


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	3.873	19.9521	19.9521	1.0000
2	1.91	Chloride	BMB	15.108	99.3195	99.3195	1.0000
3	2.19	Nitrite,N	BMB	5.009	20.0220	20.0220	1.0000
4	2.49	Sulfate	BMB	9.566	99.7024	99.7024	1.0000
5	2.75	Bromide	BMB	0.814	20.0032	20.0032	1.0000
6	3.09	Nitrate	BMB	6.404	19.8130	19.8130	1.0000
7	3.30	Chlorate	BMB	0.290	19.7813	19.7813	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**41.065**		**298.59**	

7 ICV			
Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*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:	**04/03/2024 09:36**	*Sample Weight:*	**1.0000**

Run Time:



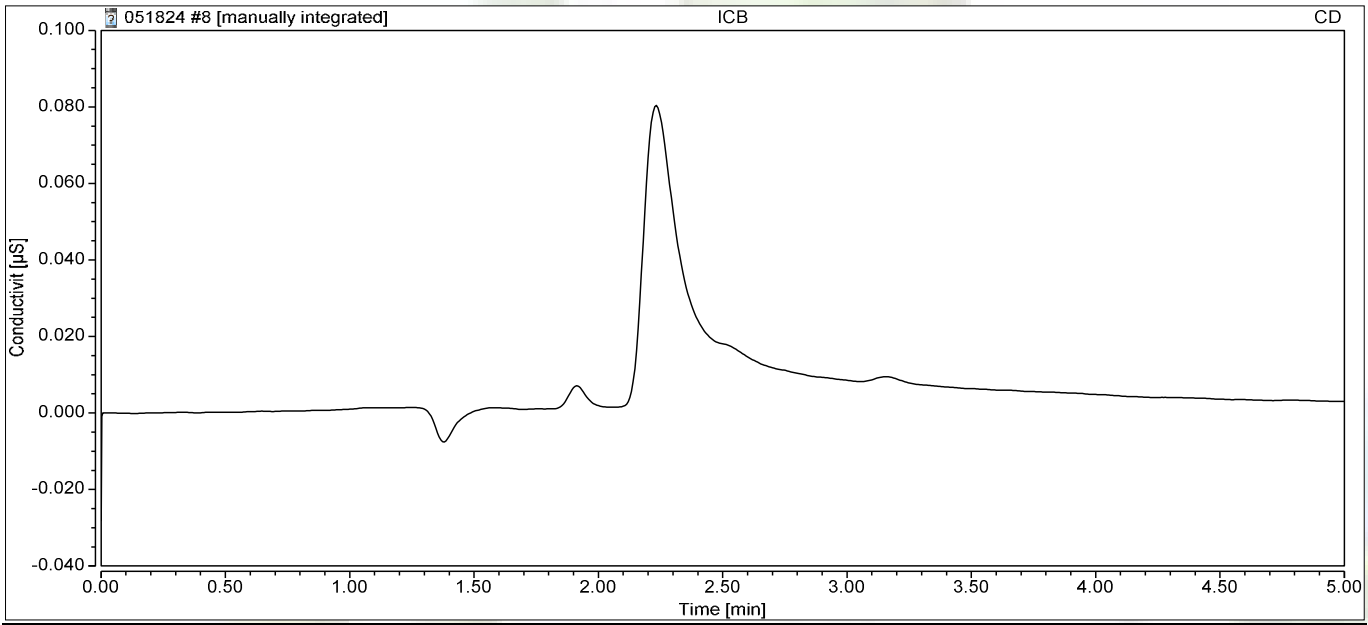
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.804	4.1985	4.1985	1.0000
2	1.91	Chloride	BMB	3.080	20.2963	20.2963	1.0000
3	2.19	Nitrite,N	BMB	1.241	4.0504	4.0504	1.0000
4	2.53	Sulfate	BMB*	1.942	21.9080	21.9080	1.0000
5	2.76	Bromide	BMB	0.153	4.3302	4.3302	1.0000
6	3.14	Nitrate	BMB	1.314	4.0742	4.0742	1.0000
7	3.33	Chlorate	BMB	0.075	3.9407	3.9407	1.0000
8	4.35	Phosphate	BMB	0.109	5.3705	5.3705	1.0000
Total:			**0.000**	**8.718**		**68.17**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*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:	**04/03/2024 10:21**	*Sample Weight:*	**1.0000**

Run Time:



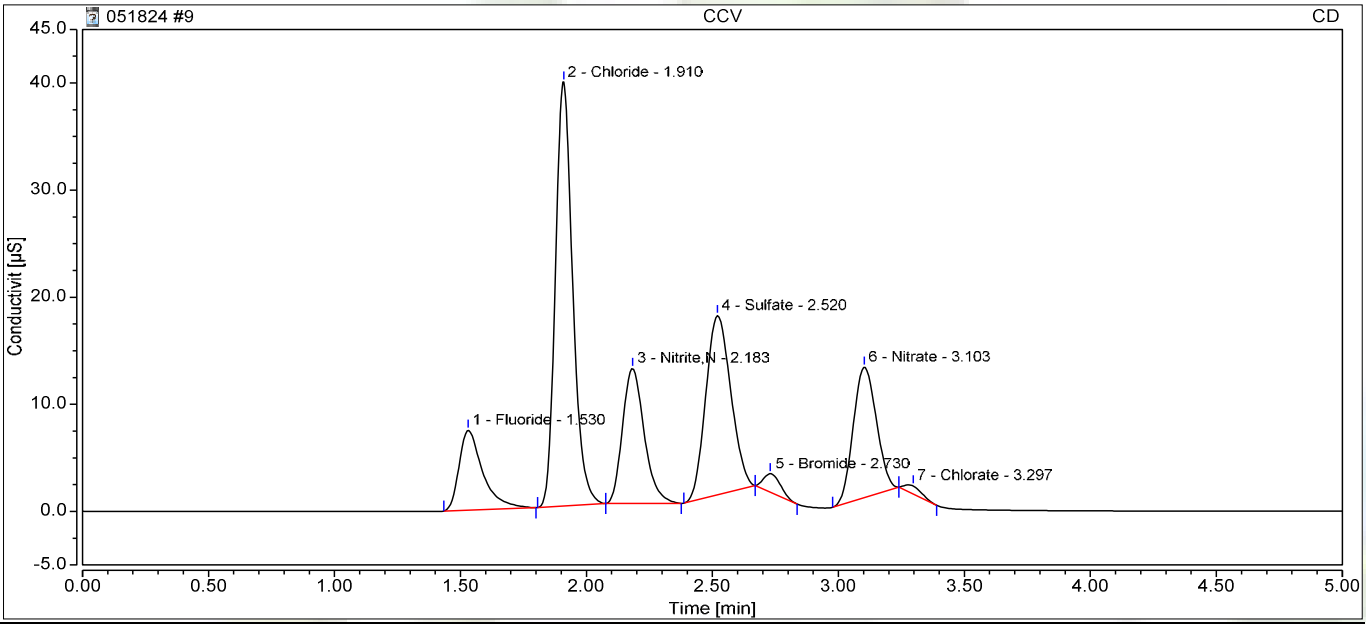
Integration Results

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:	**05/18/2024 08:33**	*Sample Weight:*	**1.0000**

Run Time:



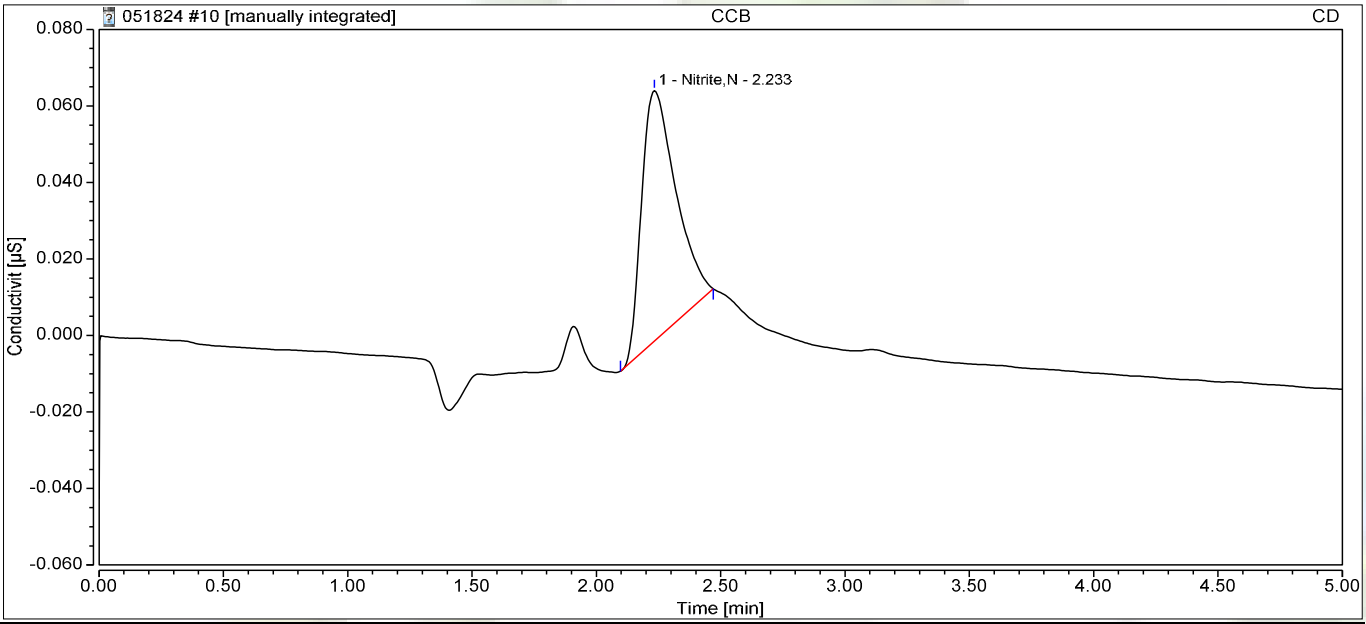
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.814	4.2507	4.2507	1.0000
2	1.91	Chloride	BMB	3.138	20.6795	20.6795	1.0000
3	2.18	Nitrite,N	BMB	1.258	4.1094	4.1094	1.0000
4	2.52	Sulfate	BMB	1.926	21.7324	21.7324	1.0000
5	2.73	Bromide	BMB	0.137	3.8725	3.8725	1.0000
6	3.10	Nitrate	BMB	1.296	4.0188	4.0188	1.0000
7	3.30	Chlorate	BMB	0.056	2.9191	2.9191	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.625**		**61.58**	

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:	**05/18/2024 08:45**	*Sample Weight:*	**1.0000**

Run Time:



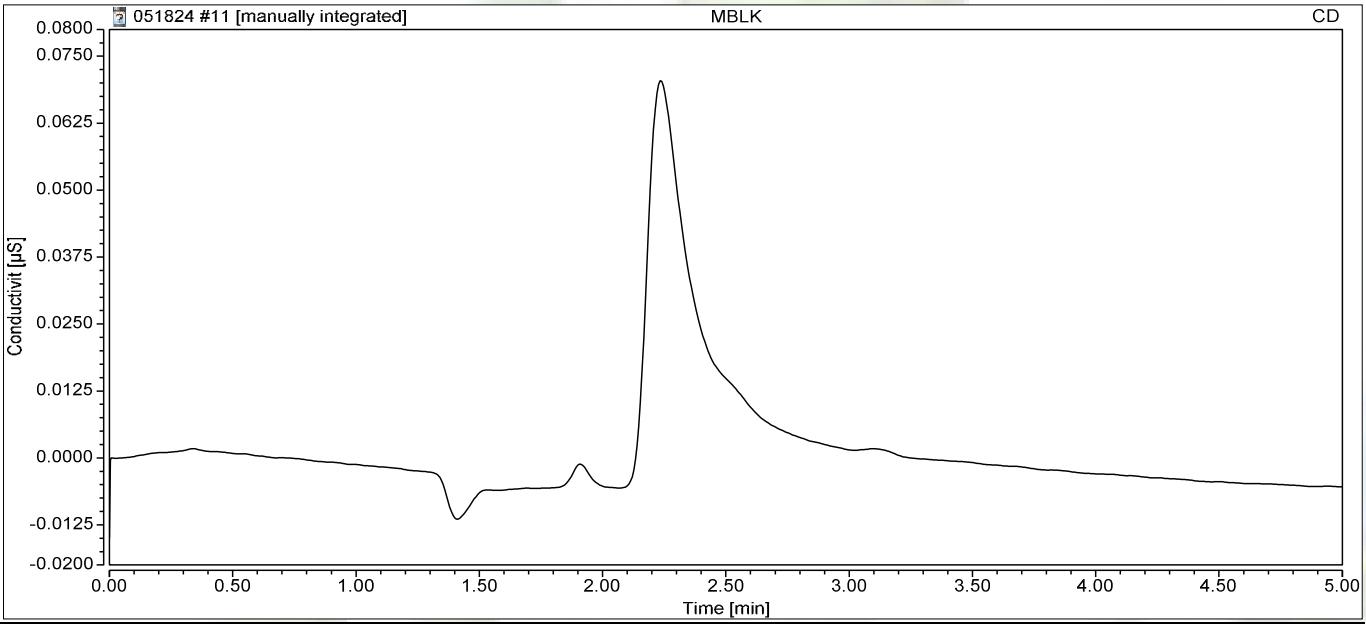
Integration Results

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	2.23	Nitrite,N	BMB*	0.010	0.0356	0.0356	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**	**0.010**		**0.04**	

11 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:	**05/18/2024 08:51**	*Sample Weight:*	**1.0000**

Run Time:



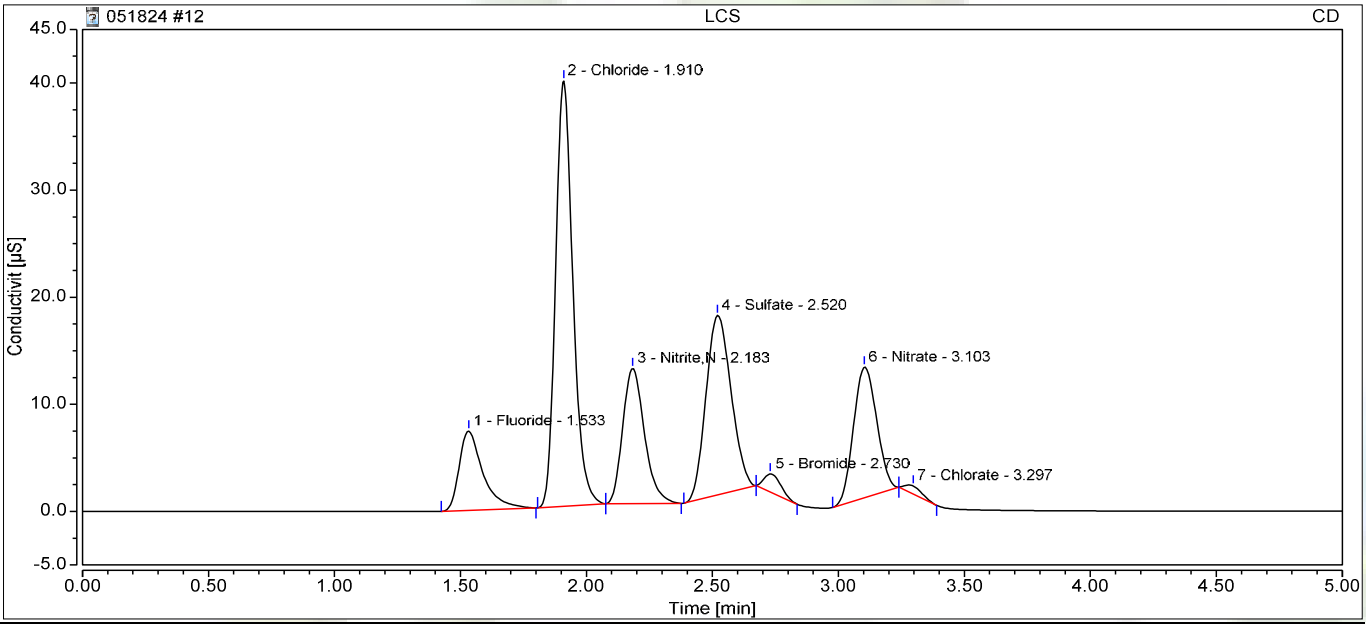
Integration Results

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**	

12 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:	**05/18/2024 08:57**	*Sample Weight:*	**1.0000**

Run Time:



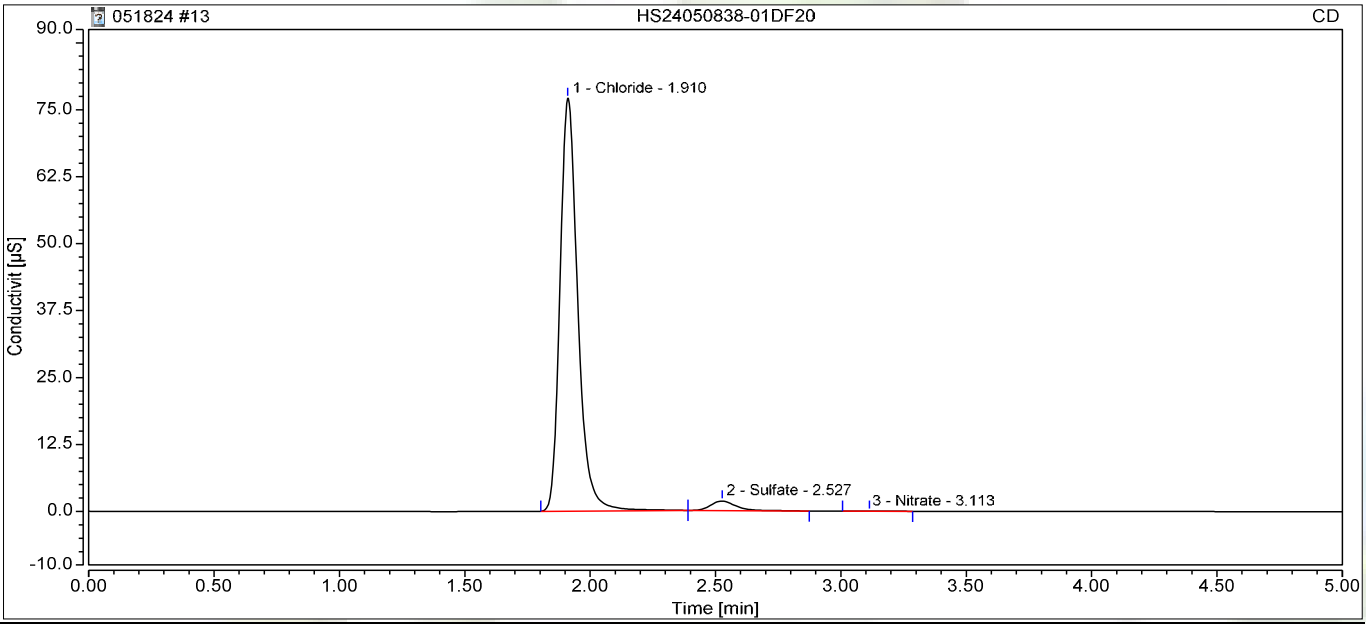
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.810	4.2334	4.2334	1.0000
2	1.91	Chloride	BMB	3.152	20.7689	20.7689	1.0000
3	2.18	Nitrite,N	BMB	1.263	4.1266	4.1266	1.0000
4	2.52	Sulfate	BMB	1.937	21.8578	21.8578	1.0000
5	2.73	Bromide	BMB	0.135	3.8248	3.8248	1.0000
6	3.10	Nitrate	BMB	1.298	4.0240	4.0240	1.0000
7	3.30	Chlorate	BMB	0.058	2.9942	2.9942	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.653**		**61.83**	

13 HS24050838-01DF20

Sample Name:	**HS24050838-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*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:	**05/18/2024 09:09**	*Sample Weight:*	**1.0000**

Run Time:



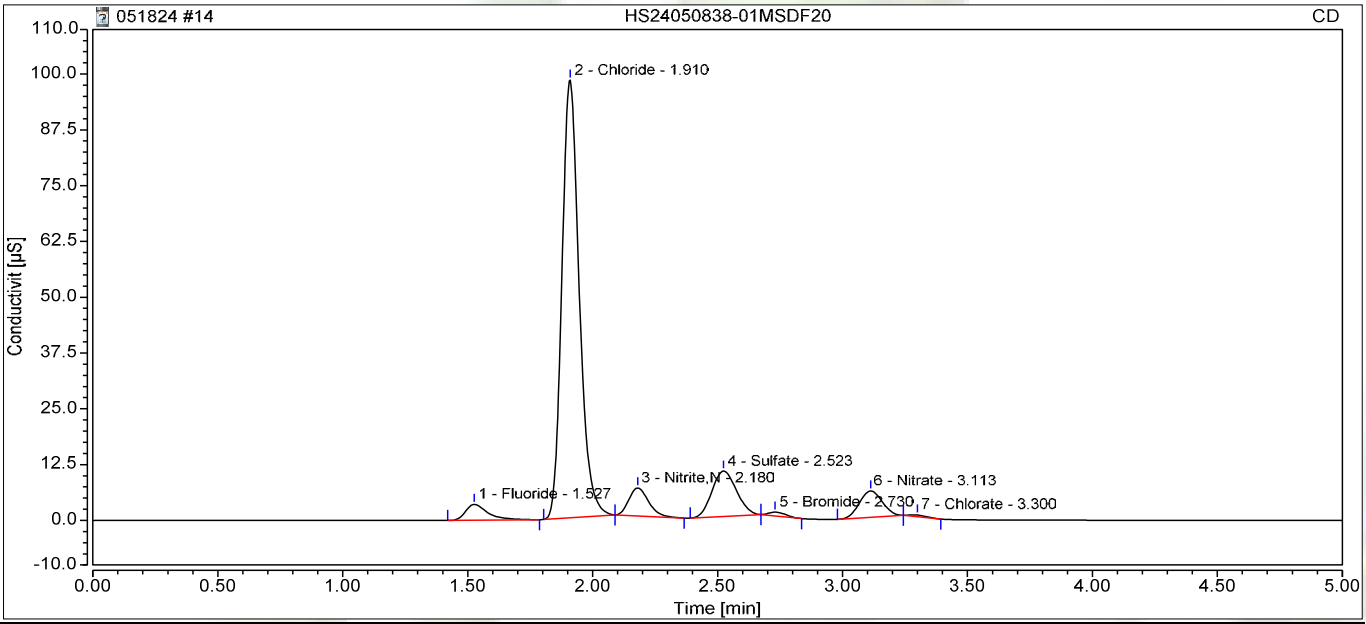
Integration Results

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	1.91	Chloride	BMB	6.331	41.6593	833.1856	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.53	Sulfate	BMB	0.208	2.4818	49.6369	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
3	3.11	Nitrate	BMB	0.002	0.0157	0.3147	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**	**6.542**		**883.14**	

14 HS24050838-01MSDF20

Sample Name:	**HS24050838-01MSDF20**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*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:	**05/18/2024 09:15**	*Sample Weight:*	**1.0000**

Run Time:



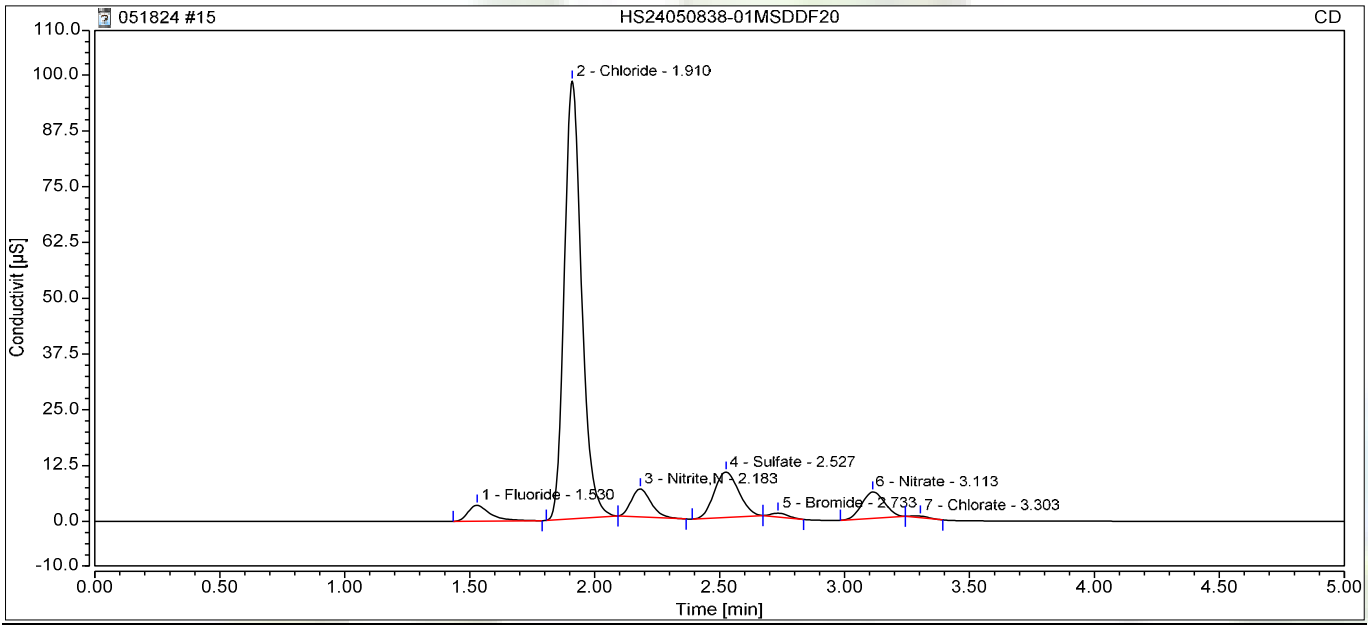
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.370	1.9727	39.4544	20.0000
2	1.91	Chloride	BMB	7.873	51.7890	1035.7794	20.0000
3	2.18	Nitrite,N	BMB	0.576	1.8351	36.7028	20.0000
4	2.52	Sulfate	BMB	1.153	13.1636	263.2727	20.0000
5	2.73	Bromide	BMB	0.066	1.9088	38.1758	20.0000
6	3.11	Nitrate	BMB	0.624	1.9409	38.8174	20.0000
7	3.30	Chlorate	BMB	0.028	1.4723	29.4464	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**10.690**		**1481.65**	

15 HS24050838-01MSDDF20

Sample Name:	**HS24050838-01MSDDF20**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*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:	**05/18/2024 09:20**	*Sample Weight:*	**1.0000**

Run Time:



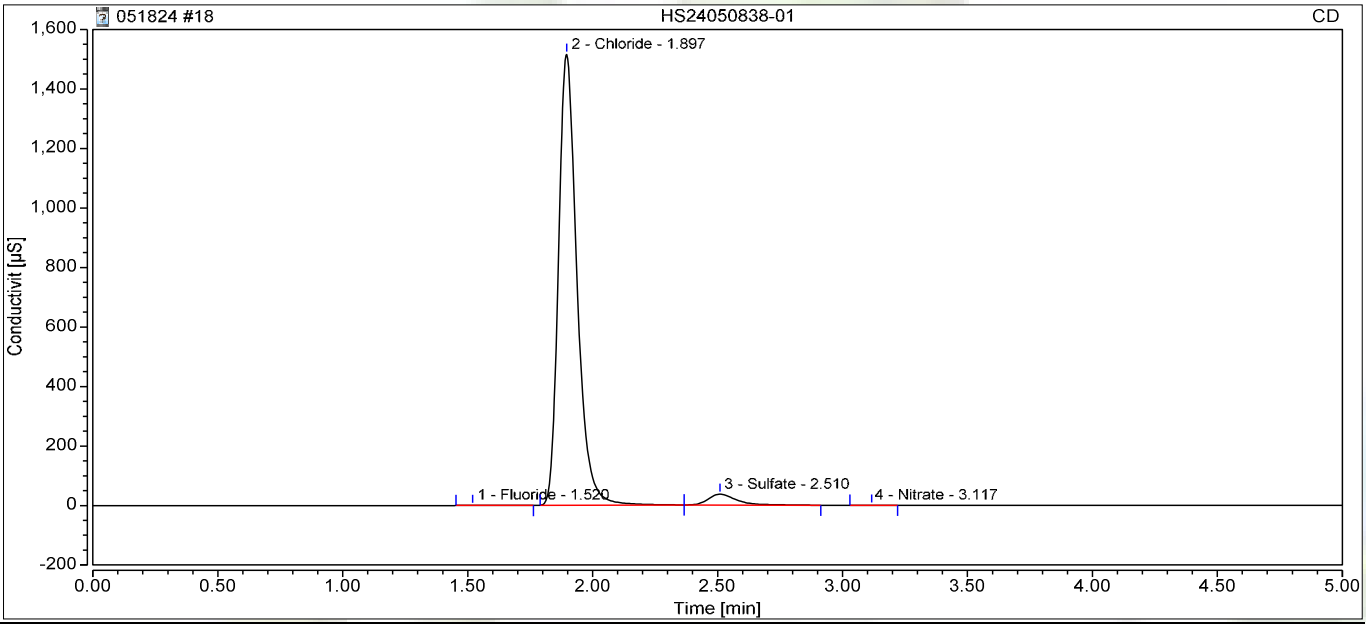
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.369	1.9664	39.3290	20.0000
2	1.91	Chloride	BMB	7.870	51.7655	1035.3108	20.0000
3	2.18	Nitrite,N	BMB	0.574	1.8277	36.5532	20.0000
4	2.53	Sulfate	BMB	1.152	13.1537	263.0737	20.0000
5	2.73	Bromide	BMB	0.067	1.9434	38.8671	20.0000
6	3.11	Nitrate	BMB	0.622	1.9338	38.6761	20.0000
7	3.30	Chlorate	BMB	0.029	1.5144	30.2880	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**10.682**		**1482.10**	

18 HS24050838-01

Sample Name:	**HS24050838-01**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*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:	**05/18/2024 09:38**	*Sample Weight:*	**1.0000**

Run Time:



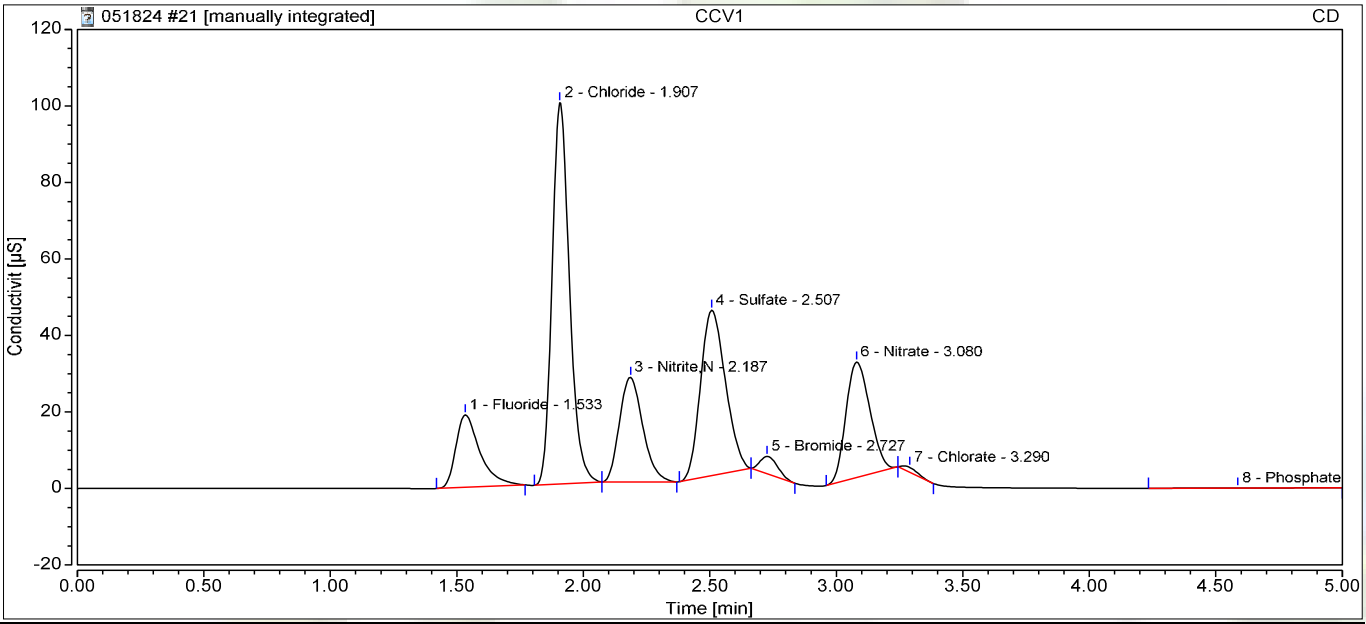
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.020	0.1773	0.1773	1.0000
2	1.90	Chloride	BMB	129.924	853.6340	853.6340	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.51	Sulfate	BMB	4.725	51.6227	51.6227	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.12	Nitrate	BMB	0.002	0.0159	0.0159	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**	**134.671**		**905.45**	

21 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**G3**	*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:	**05/18/2024 09:56**	*Sample Weight:*	**1.0000**

Run Time:



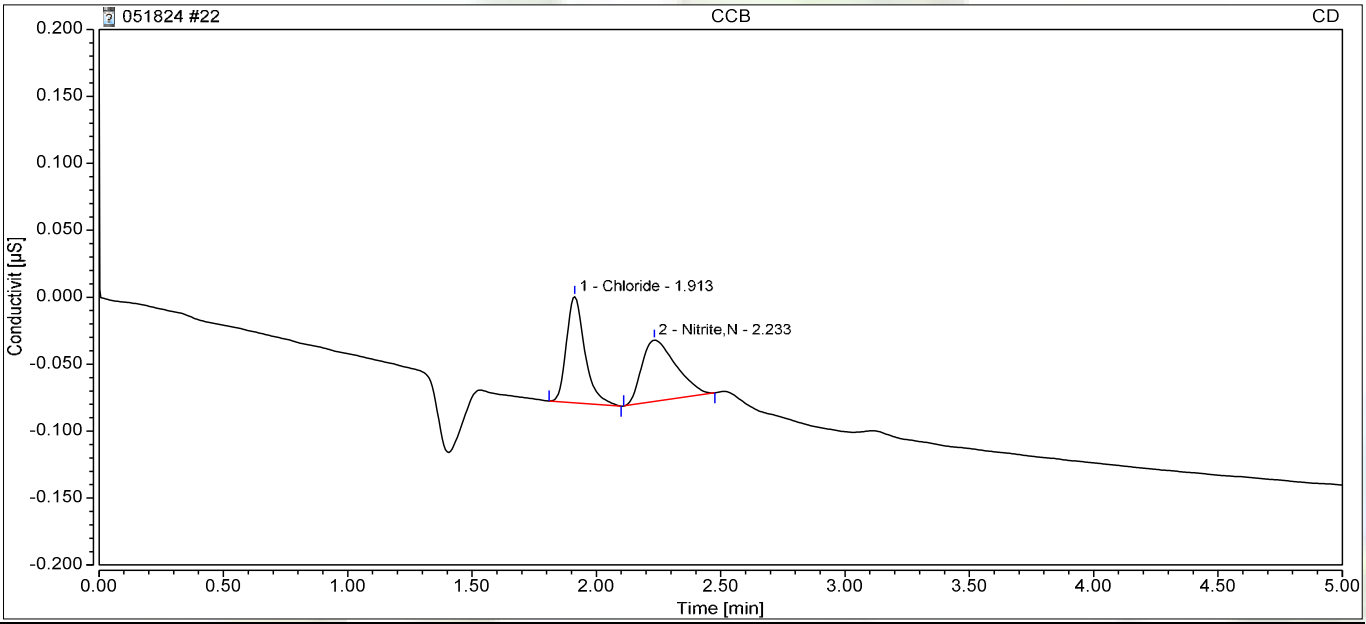
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB*	2.092	10.8112	10.8112	1.0000
2	1.91	Chloride	BMB	7.920	52.0978	52.0978	1.0000
3	2.19	Nitrite,N	BMB	2.921	10.2634	10.2634	1.0000
4	2.51	Sulfate	BMB	4.932	53.7677	53.7677	1.0000
5	2.73	Bromide	BMB	0.367	9.8433	9.8433	1.0000
6	3.08	Nitrate	BMB	3.314	10.2572	10.2572	1.0000
7	3.29	Chlorate	BMB	0.089	4.7087	4.7087	1.0000
8	4.59	Phosphate	BMB	0.011	2.1929	2.1929	1.0000
Total:			**0.000**	**21.647**		**153.94**	

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:	**05/18/2024 10:02**	*Sample Weight:*	**1.0000**

Run Time:



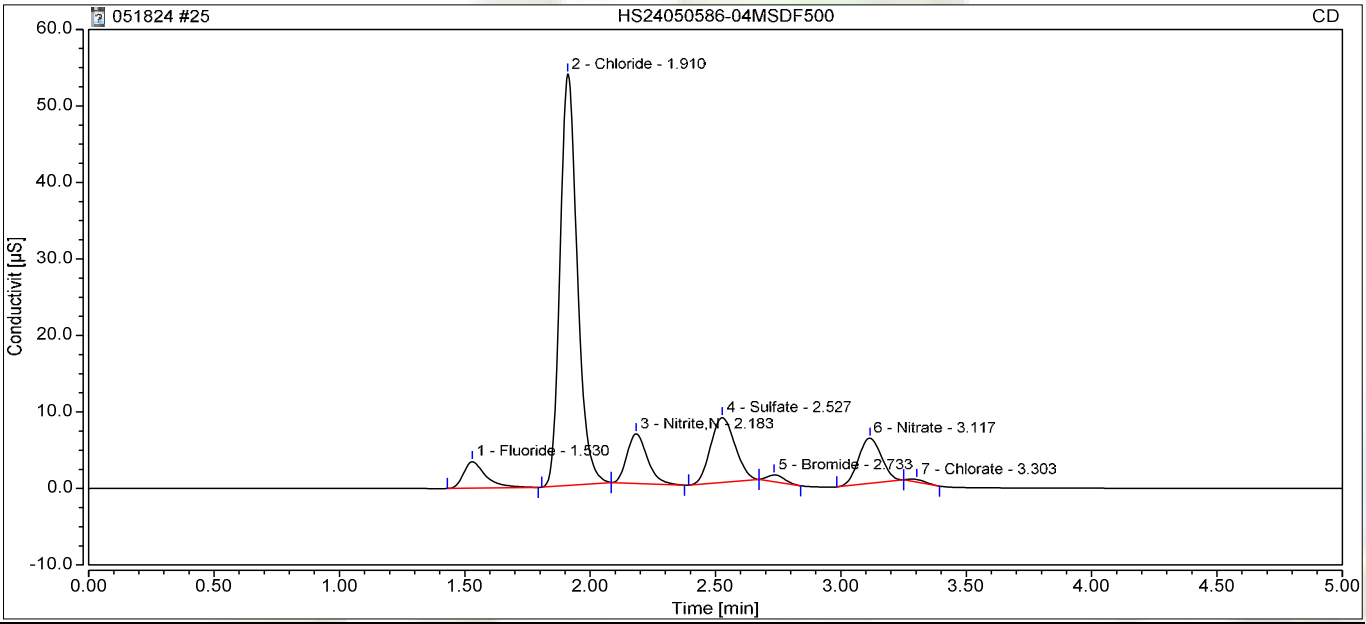
Integration Results

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	1.91	Chloride	BMB	0.007	0.1077	0.1077	1.0000
2	2.23	Nitrite,N	BMB	0.007	0.0257	0.0257	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**	**0.014**		**0.13**	

25 HS24050586-04MSDF500

Sample Name:	**HS24050586-04MSDF500**	*Injection Volume:*	**5.00**
Vial Number:	**RB3**	*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:*	**500.0000**
Recording Time:	**05/18/2024 10:25**	*Sample Weight:*	**1.0000**

Run Time:



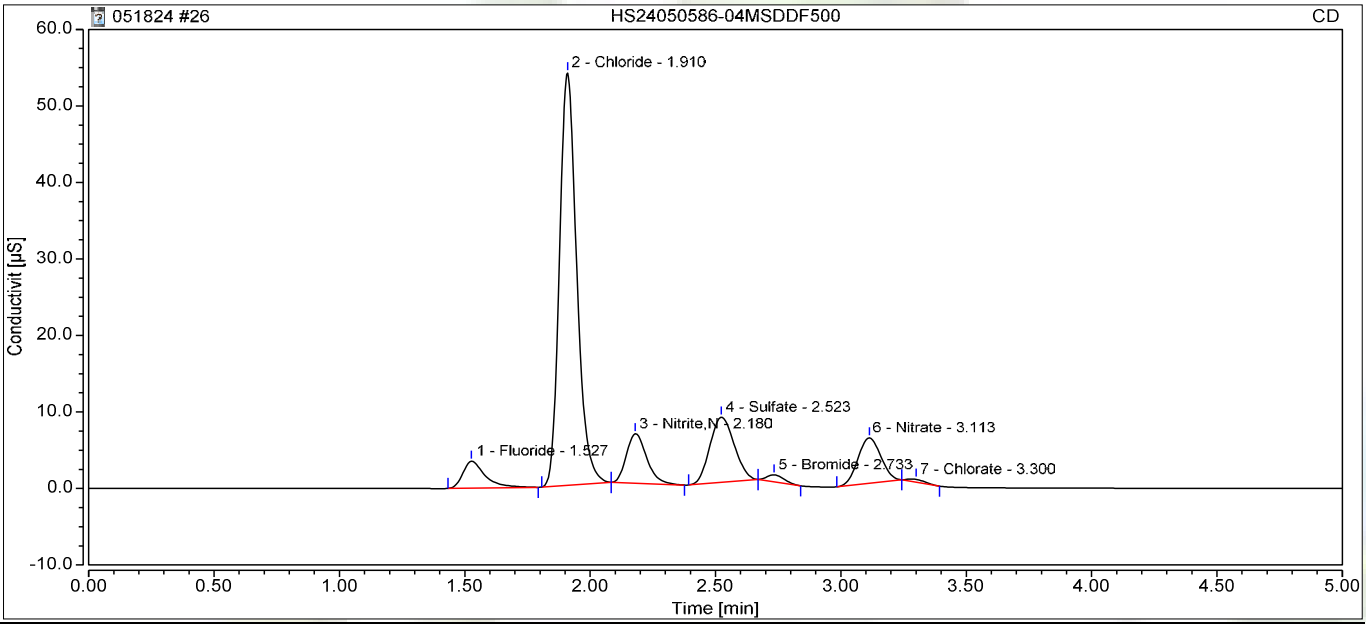
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.359	1.9195	959.7250	500.0000
2	1.91	Chloride	BMB	4.289	28.2383	14119.1500	500.0000
3	2.18	Nitrite,N	BMB	0.610	1.9457	972.8719	500.0000
4	2.53	Sulfate	BMB	0.955	10.9446	5472.2767	500.0000
5	2.73	Bromide	BMB	0.071	2.0391	1019.5519	500.0000
6	3.12	Nitrate	BMB	0.627	1.9492	974.5986	500.0000
7	3.30	Chlorate	BMB	0.026	1.3701	685.0727	500.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	500.0000
Total:			**0.000**	**6.937**		**24203.25**	

26 HS24050586-04MSDDF500

Sample Name:	**HS24050586-04MSDDF500**	*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:*	**500.0000**
Recording Time:	**05/18/2024 10:31**	*Sample Weight:*	**1.0000**

Run Time:



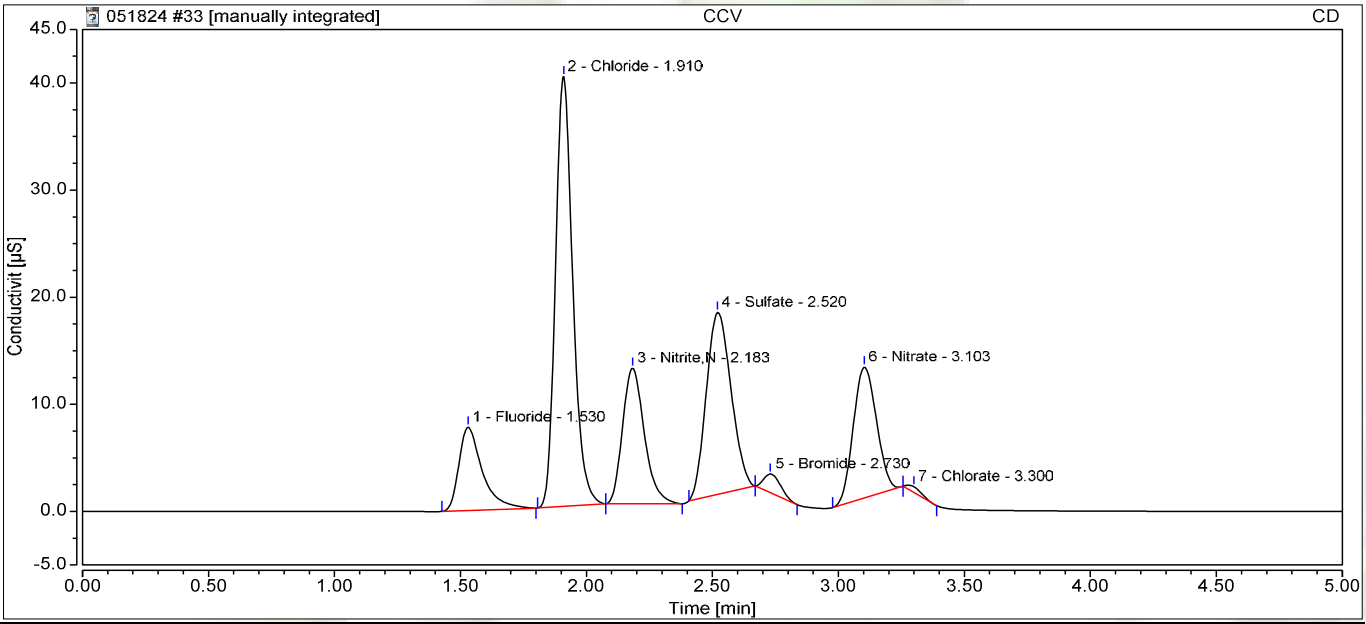
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.363	1.9381	969.0750	500.0000
2	1.91	Chloride	BMB	4.301	28.3171	14158.5414	500.0000
3	2.18	Nitrite,N	BMB	0.610	1.9460	973.0082	500.0000
4	2.52	Sulfate	BMB	0.960	10.9967	5498.3685	500.0000
5	2.73	Bromide	BMB	0.072	2.0781	1039.0293	500.0000
6	3.11	Nitrate	BMB	0.626	1.9463	973.1357	500.0000
7	3.30	Chlorate	BMB	0.028	1.4835	741.7311	500.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	500.0000
Total:			**0.000**	**6.960**		**24352.89**	

33 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:	**05/18/2024 11:12**	*Sample Weight:*	**1.0000**

Run Time:



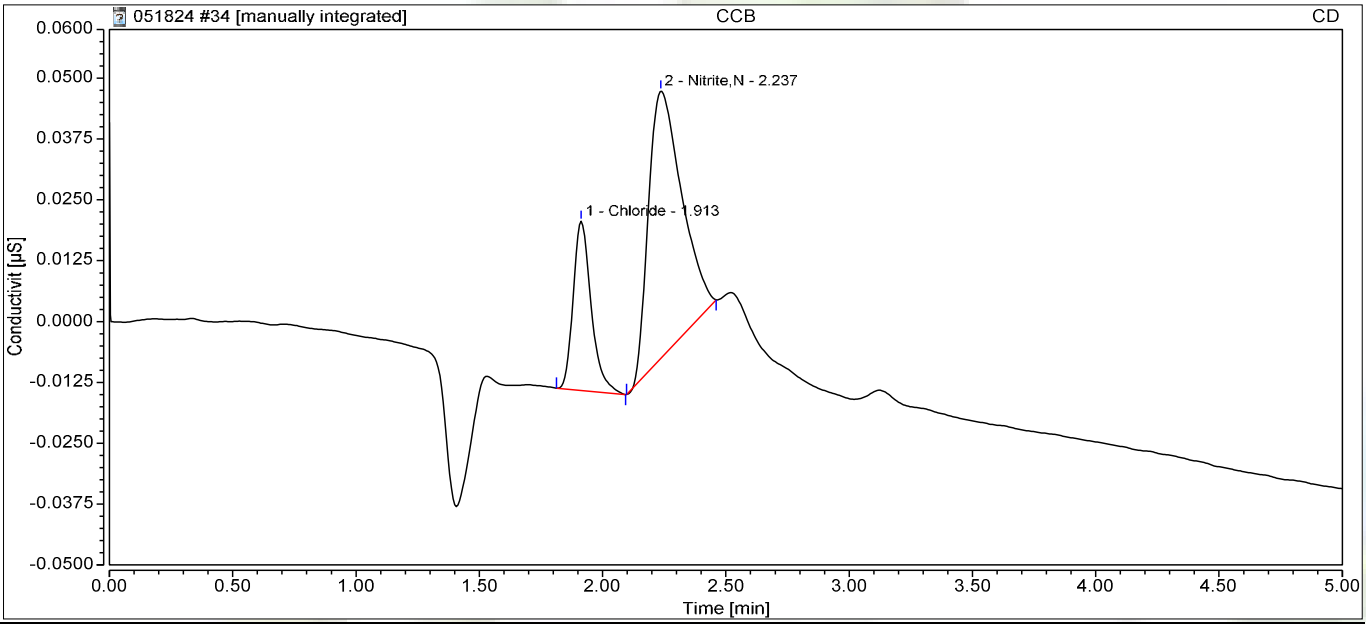
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.837	4.3705	4.3705	1.0000
2	1.91	Chloride	BMB	3.185	20.9888	20.9888	1.0000
3	2.18	Nitrite,N	BMB	1.267	4.1392	4.1392	1.0000
4	2.52	Sulfate	BMB*	1.934	21.8203	21.8203	1.0000
5	2.73	Bromide	BMB	0.138	3.8989	3.8989	1.0000
6	3.10	Nitrate	BMB	1.303	4.0387	4.0387	1.0000
7	3.30	Chlorate	BMB	0.034	1.8068	1.8068	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.698**		**61.06**	

34 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:	**05/18/2024 11:24**	*Sample Weight:*	**1.0000**

Run Time:



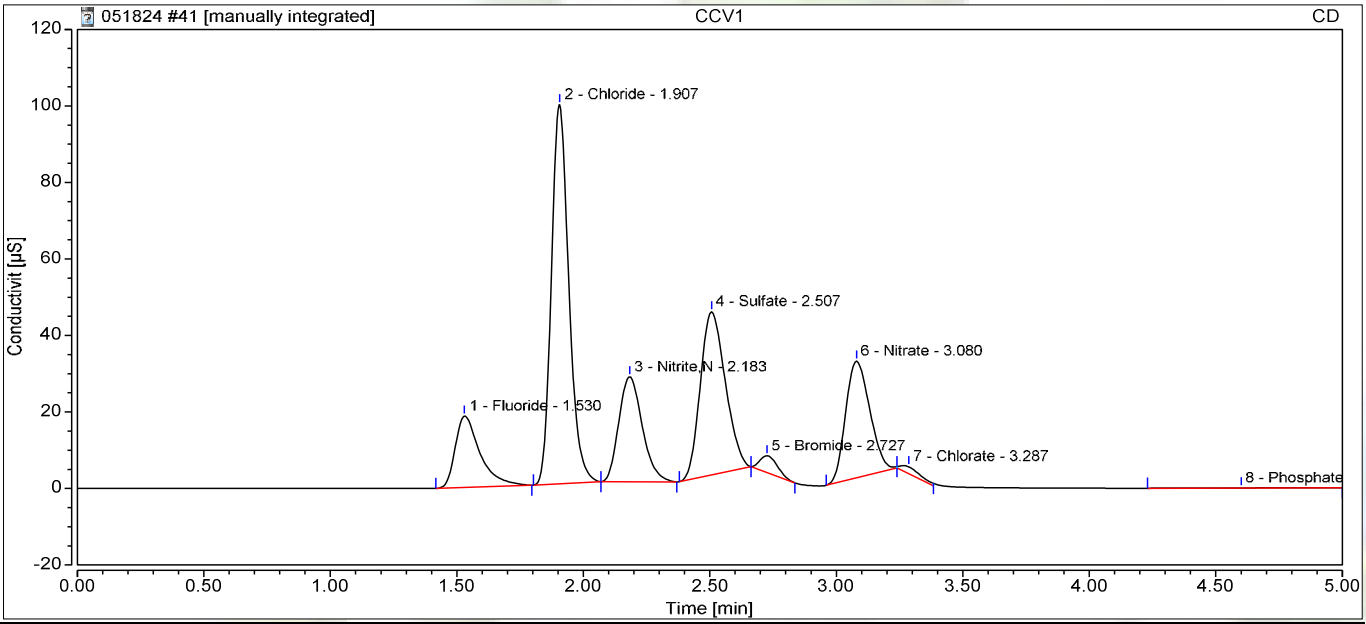
Integration Results

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
1	1.91	Chloride	BMB	0.003	0.0823	0.0823	1.0000
2	2.24	Nitrite,N	BMB*	0.009	0.0296	0.0296	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**	**0.011**		**0.11**	

41 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:	**05/18/2024 12:52**	*Sample Weight:*	**1.0000**

Run Time:



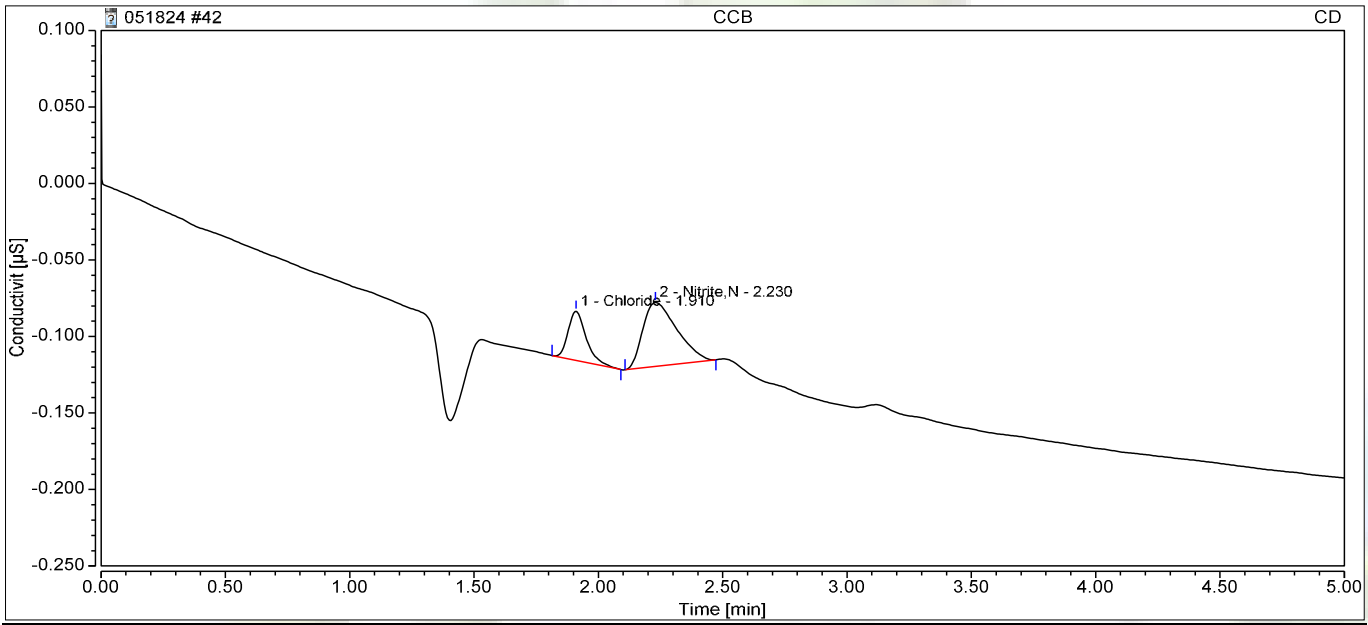
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.124	10.9740	10.9740	1.0000
2	1.91	Chloride	BMB	7.904	51.9908	51.9908	1.0000
3	2.18	Nitrite,N	BMB	2.945	10.3627	10.3627	1.0000
4	2.51	Sulfate	BMB	4.885	53.2769	53.2769	1.0000
5	2.73	Bromide	BMB	0.354	9.5302	9.5302	1.0000
6	3.08	Nitrate	BM *	3.378	10.4556	10.4556	1.0000
7	3.29	Chlorate	M *	0.167	9.3962	9.3962	1.0000
8	4.60	Phosphate	BMB	0.011	2.2053	2.2053	1.0000
Total:			**0.000**	**21.769**		**158.19**	

42 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:	**05/18/2024 13:04**	*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	1.91	Chloride	BMB	0.003	0.0809	0.0809	1.0000
2	2.23	Nitrite,N	BMB	0.007	0.0237	0.0237	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**	**0.009**		**0.10**	

HS24050838-MSVOA-SW8260

ALS WO# HS24050838

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Form 1

Organic Analysis Data Sheet

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 1 - Organic Analysis Data Sheet

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

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_051424	Collected	Received	Matrix	Basis
HS24050838-01	05/14/24 13:00	05/15/24 09:25	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	05/18/24 05:49	VOA9_467121	U051807.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D

Form 1 - Organic Analysis Data Sheet

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

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_051424	Collected	Received	Matrix	Basis
HS24050838-01	05/14/24 13:00	05/15/24 09:25	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	05/18/24 05:49	VOA9_467121	U051807.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
cis-1,2-Dichloroethene	ug/L	1.9		0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:49	VOA9_467121	U051807.D

Form 1 - Organic Analysis Data Sheet

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

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24050838-02	05/14/24 00:00	05/15/24 09:25	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	05/18/24 05:28	VOA9_467121	U051806.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Bi-Weekly Samples

Workorder: HS24050838

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24050838-02	05/14/24 00:00	05/15/24 09:25	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	05/18/24 05:28	VOA9_467121	U051806.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Trichlorofluoromethane	ug/L	3.0		0.30	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/18/24 05:28	VOA9_467121	U051806.D