LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 7

2025

Bate Stamp Numbers
01299766 – 01301703

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

VOLUME 7

2025

A.	Title:	(Cont'd) Report – Appendix C 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:	01299766–01301703

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\062524A.b
Acq Date Time	2024-06-25T11:21:20-05:00
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	94.609	1.975	2437566	0.95	100	94.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	87.550	2.538	561388	1.58	100	87.5	80	120	
V	51	2	He	102.288	3.408	1050465	2.99	100	102.3	80	120	
Cr	52	2	He	101.063	3.562	1181532	3.12	100	101.1	80	120	
Fe	56	2	He	109062.487	2.602	1203331422	2.21	100	109062.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.637	3.126	17803	2.68	100	102.6	80	120	
As	75	2	He	103.256	2.500	191219	2.08	100	103.3	80	120	
Ca	44	2	He	109984.747	1.562	7395528	1.15	100	109984.7	80	120	
Na	23	2	He	110850.587	2.517	196709744	2.10	100	110850.6	80	120	ICSB Main CR1 Failed
Mg	24	2	He	109003.593	2.869	119338295	2.47	100	109003.6	80	120	
K	39	2	He	111247.305	1.749	143282798	1.35	100	111247.3	80	120	ICSB Main CR1 Failed
Mn	55	2	He	100.356	3.314	910853	2.97	100	100.4	80	120	
Co	59	2	He	99.027	2.236	1781195	1.88	100	99.0	80	120	
Ni	60	2	He	95.961	2.911	443502	2.49	100	96.0	80	120	
Cu	63	2	He	96.236	2.654	1185047	2.26	100	96.2	80	120	
Zn	66	2	He	100.191	2.889	232306	2.45	100	100.2	80	120	
Al	27	2	He	101149.667	2.549	71396764	2.15	100	101149.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	478.279	1.542	1760748	0.57	100	478.3	80	120	
Al	27	1	No Gas	94900.610	2.494	2521311962	1.32	100	94900.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.215	2.177	7285419	0.88	100	537.2	80	120	
Ag	107	1	No Gas	98.922	0.442	3305458	0.22	100	98.9	80	120	
Cd	111	1	No Gas	98.955	1.982	658338	1.58	100	99.0	80	120	
Sr	88	1	No Gas	103.311	1.167	6774612	0.79	100	103.3	80	120	
Mo	95	1	No Gas	2078.382	0.658	26267556	0.37	100	2078.4	80	120	
Sn	118	1	No Gas	101.851	1.709	2200867	1.49	100	101.9	80	120	
Sb	121	1	No Gas	100.539	2.485	3038067	1.34	100	100.5	80	120	
Ba	137	1	No Gas	102.763	2.469	1138460	2.15	100	102.8	80	120	
Tl	205	1	No Gas	101.782	2.256	6532668	1.08	100	101.8	80	120	
Tl	203	1	No Gas	101.236	3.275	2657525	2.06	100	101.2	80	120	
Pb	208	1	No Gas	103.619	1.389	10395996	0.48	100	103.6	80	120	
U	238	1	No Gas	103.084	1.543	11189888	0.80	100	103.1	80	120	
Ca	43	2	He	105193.891	1.222	411866	0.80	100	105193.9	80	120	
Sb	121	2	He	99.772	3.009	1374442	2.60	100	99.8	80	120	
Ti	47	2	He	2071.419	2.344	812246	1.93	100	2071.4	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.183	2.773	2383092	1.60	100	96.2	80	120	
Se	82	1	No Gas	102.421	0.847	43169	0.48	100	102.4	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	1548509	0.95	1709896	90.56	70	120	
Ge	72	2	He	1139551	0.42	1177618	96.77	70	120	
Ge	72	1	No Gas	3963916	1.16	4162003	95.24	70	120	
In	115	1	No Gas	4889487	0.42	5301074	92.24	70	120	
Bi	209	1	No Gas	4748828	1.32	5272521	90.07	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	116CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:47:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	91003	0.00
Be	9	1	No Gas	230	12.29
V	51	2	He	3789	0.09
Cr	52	2	He	12990	0.01
Fe	56	2	He	20476	0.02
Se	78	2	He	153	2.60
As	75	2	He	346	0.32
Ca	44	2	He	920	0.82
Na	23	2	He	321941	0.00
Mg	24	2	He	893	0.52
K	39	2	He	124830	0.00
Mn	55	2	He	833	0.72
Co	59	2	He	803	0.24
Ni	60	2	He	423	1.96
Cu	63	2	He	757	1.57
Zn	66	2	He	943	0.96
Al	27	2	He	1797	0.70
B	11	1	No Gas	11521	0.02
Al	27	1	No Gas	64770	0.00
Si	28	1	No Gas	388377	0.00
Ag	107	1	No Gas	1130	0.54
Cd	111	1	No Gas	2	103340.62
Sr	88	1	No Gas	3444	0.10
Mo	95	1	No Gas	190	7.33
Sn	118	1	No Gas	6482	0.06
Sb	121	1	No Gas	597	0.90
Ba	137	1	No Gas	770	1.27
Tl	205	1	No Gas	2734	0.30
Tl	203	1	No Gas	1063	0.45
Pb	208	1	No Gas	5471	0.06
U	238	1	No Gas	3841	0.09
Ca	43	2	He	43	134.02
Sb	121	2	He	237	11.62
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	7002	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1676119	0.51
Ge	72	2	He	1163381	0.64
Ge	72	1	No Gas	4078799	0.57
In	115	1	No Gas	5144583	0.25

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4944446	1.35

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	117CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:49:38-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11772	0.02
V	51	2	He	23212	0.01
Cr	52	2	He	35322	0.00
Fe	56	2	He	2155481	0.00
Se	78	2	He	458	2.33
As	75	2	He	3747	0.04
Ca	44	2	He	14151	0.05
Na	23	2	He	654924	0.00
Mg	24	2	He	214489	0.00
K	39	2	He	369135	0.00
Mn	55	2	He	17908	0.02
Co	59	2	He	34687	0.01
Ni	60	2	He	9604	0.09
Cu	63	2	He	25267	0.01
Zn	66	2	He	6495	0.08
Al	27	2	He	3801	0.16
B	11	1	No Gas	47375	0.00
Al	27	1	No Gas	140429	0.00
Si	28	1	No Gas	529644	0.00
Ag	107	1	No Gas	69617	0.00
Cd	111	1	No Gas	13752	0.02
Sr	88	1	No Gas	131827	0.00
Mo	95	1	No Gas	25044	0.02
Sn	118	1	No Gas	50781	0.00
Sb	121	1	No Gas	60331	0.00
Ba	137	1	No Gas	24847	0.01
Tl	205	1	No Gas	135292	0.00
Tl	203	1	No Gas	56952	0.00
Pb	208	1	No Gas	202279	0.00
U	238	1	No Gas	199597	0.00
Ca	43	2	He	797	0.64
Sb	121	2	He	25084	0.01
Cu	63	1	No Gas	57507	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	1639782	0.41	1676119	97.83	70	120	
Ge	72	2	He	1169710	0.61	1163381	100.54	70	120	
Ge	72	1	No Gas	4098266	0.68	4078799	100.48	70	120	

Calibration Standard Report

In	115	1	No Gas	5137782	0.59	5144583	99.87	70	120	
Bi	209	1	No Gas	4967617	0.97	4944446	100.47	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	118CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:52:08-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	29162	0.00
V	51	2	He	51770	0.01
Cr	52	2	He	68185	0.01
Fe	56	2	He	5252887	0.00
Se	78	2	He	984	0.58
As	75	2	He	9142	0.03
Ca	44	2	He	32919	0.01
Na	23	2	He	1164117	0.00
Mg	24	2	He	529998	0.00
K	39	2	He	736485	0.00
Mn	55	2	He	43311	0.01
Co	59	2	He	87152	0.00
Ni	60	2	He	22676	0.02
Cu	63	2	He	59284	0.00
Zn	66	2	He	12589	0.04
Al	27	2	He	5088	0.10
B	11	1	No Gas	97622	0.00
Al	27	1	No Gas	190062	0.00
Si	28	1	No Gas	713460	0.00
Ag	107	1	No Gas	170821	0.00
Cd	111	1	No Gas	33166	0.01
Sr	88	1	No Gas	320927	0.00
Mo	95	1	No Gas	61895	0.00
Sn	118	1	No Gas	113983	0.00
Sb	121	1	No Gas	147473	0.00
Ba	137	1	No Gas	54450	0.01
Tl	205	1	No Gas	349044	0.00
Tl	203	1	No Gas	146964	0.00
Pb	208	1	No Gas	493261	0.00
U	238	1	No Gas	494594	0.00
Ca	43	2	He	1787	0.37
Sb	121	2	He	61523	0.01
Cu	63	1	No Gas	128742	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	1617927	0.35	1676119	96.53	70	120	
Ge	72	2	He	1158722	0.74	1163381	99.60	70	120	
Ge	72	1	No Gas	4067730	0.67	4078799	99.73	70	120	

Calibration Standard Report

In	115	1	No Gas	5148853	1.07	5144583	100.08	70	120	
Bi	209	1	No Gas	4977585	0.11	4944446	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	119CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:54:39-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57352	0.01
V	51	2	He	102740	0.00
Cr	52	2	He	126207	0.00
Fe	56	2	He	10743920	0.00
Se	78	2	He	1679	0.09
As	75	2	He	17827	0.02
Ca	44	2	He	65210	0.00
Na	23	2	He	2070850	0.00
Mg	24	2	He	1096589	0.00
K	39	2	He	1377702	0.00
Mn	55	2	He	87315	0.00
Co	59	2	He	177025	0.00
Ni	60	2	He	45806	0.01
Cu	63	2	He	122701	0.00
Zn	66	2	He	23534	0.01
Al	27	2	He	8603	0.05
B	11	1	No Gas	183989	0.00
Al	27	1	No Gas	320636	0.00
Si	28	1	No Gas	991058	0.00
Ag	107	1	No Gas	341807	0.00
Cd	111	1	No Gas	66141	0.00
Sr	88	1	No Gas	641792	0.00
Mo	95	1	No Gas	123765	0.00
Sn	118	1	No Gas	224037	0.00
Sb	121	1	No Gas	292506	0.00
Ba	137	1	No Gas	110132	0.00
Tl	205	1	No Gas	721277	0.00
Tl	203	1	No Gas	303208	0.00
Pb	208	1	No Gas	999973	0.00
U	238	1	No Gas	1008708	0.00
Ca	43	2	He	3877	0.11
Sb	121	2	He	125278	0.00
Cu	63	1	No Gas	247851	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	1575065	0.57	1676119	93.97	70	120	
Ge	72	2	He	1138781	1.09	1163381	97.89	70	120	
Ge	72	1	No Gas	4031888	0.21	4078799	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	5123282	0.75	5144583	99.59	70	120	
Bi	209	1	No Gas	5040043	0.30	4944446	101.93	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	120CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:57:08-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	554806	0.00
V	51	2	He	963216	0.00
Cr	52	2	He	1105734	0.00
Fe	56	2	He	104877322	0.00
Se	78	2	He	15483	0.02
As	75	2	He	172930	0.00
Ca	44	2	He	634861	0.00
Na	23	2	He	17609042	0.00
Mg	24	2	He	10690653	0.00
K	39	2	He	12412694	0.00
Mn	55	2	He	840741	0.00
Co	59	2	He	1710770	0.00
Ni	60	2	He	440247	0.00
Cu	63	2	He	1176878	0.00
Zn	66	2	He	220720	0.00
Al	27	2	He	67572	0.00
B	11	1	No Gas	1682651	0.00
Al	27	1	No Gas	2479820	0.00
Si	28	1	No Gas	6255444	0.00
Ag	107	1	No Gas	3234626	0.00
Cd	111	1	No Gas	637240	0.00
Sr	88	1	No Gas	6355008	0.00
Mo	95	1	No Gas	1205195	0.00
Sn	118	1	No Gas	2107881	0.00
Sb	121	1	No Gas	2790507	0.00
Ba	137	1	No Gas	1062548	0.00
Tl	205	1	No Gas	7269242	0.00
Tl	203	1	No Gas	2957485	0.00
Pb	208	1	No Gas	9889606	0.00
U	238	1	No Gas	10247645	0.00
Ca	43	2	He	37457	0.00
Sb	121	2	He	1206188	0.00
Cu	63	1	No Gas	2291888	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	1497358	0.53	1676119	89.33	70	120	
Ge	72	2	He	1121783	0.68	1163381	96.42	70	120	
Ge	72	1	No Gas	3905522	0.37	4078799	95.75	70	120	

Calibration Standard Report

In	115	1	No Gas	4999630	0.60	5144583	97.18	70	120	
Bi	209	1	No Gas	4891837	1.21	4944446	98.94	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	121CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:59:38-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1090310	0.00
V	51	2	He	1920442	0.00
Cr	52	2	He	2185686	0.00
Fe	56	2	He	205654770	0.00
Se	78	2	He	30343	0.01
As	75	2	He	341031	0.00
Ca	44	2	He	1256934	0.00
Na	23	2	He	34254963	0.00
Mg	24	2	He	20805941	0.00
K	39	2	He	24012158	0.00
Mn	55	2	He	1665308	0.00
Co	59	2	He	3347949	0.00
Ni	60	2	He	858609	0.00
Cu	63	2	He	2312817	0.00
Zn	66	2	He	425720	0.00
Al	27	2	He	129111	0.00
B	11	1	No Gas	3294656	0.00
Al	27	1	No Gas	4792184	0.00
Si	28	1	No Gas	11798675	0.00
Ag	107	1	No Gas	6301259	0.00
Cd	111	1	No Gas	1261911	0.00
Sr	88	1	No Gas	12478417	0.00
Mo	95	1	No Gas	2406098	0.00
Sn	118	1	No Gas	4131093	0.00
Sb	121	1	No Gas	5562198	0.00
Ba	137	1	No Gas	2098758	0.00
Tl	205	1	No Gas	14476419	0.00
Tl	203	1	No Gas	5896563	0.00
Pb	208	1	No Gas	19833060	0.00
U	238	1	No Gas	20877187	0.00
Ca	43	2	He	73611	0.00
Sb	121	2	He	2432431	0.00
Cu	63	1	No Gas	4471531	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	1429491	0.91	1676119	85.29	70	120	
Ge	72	2	He	1098050	0.73	1163381	94.38	70	120	
Ge	72	1	No Gas	3855346	0.92	4078799	94.52	70	120	

Calibration Standard Report

In	115	1	No Gas	4853657	0.21	5144583	94.35	70	120	
Bi	209	1	No Gas	4884541	0.75	4944446	98.79	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	125LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:11:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.017	2.017	2.12	127494	0.00	2	
Be	9	1	No Gas	2.004	2.004	2.19	11533	0.02	2	
V	51	2	He	1.927	1.927	0.83	22459	0.01	2	
Cr	52	2	He	1.900	1.900	1.50	33574	0.01	2	
Fe	56	2	He	200.958	200.958	1.23	2131452	0.01	200	
Se	78	2	He	2.188	2.188	2.87	485	0.45	2	
As	75	2	He	2.003	2.003	1.68	3816	0.05	2	
Ca	44	2	He	201.333	201.333	2.68	13784	1.46	200	
Na	23	2	He	138.740	138.740	1.43	551348	0.03	200	NewName Main CR1 Failed
Mg	24	2	He	197.791	197.791	1.47	211467	0.09	200	
K	39	2	He	194.890	194.890	1.62	358851	0.05	200	
Mn	55	2	He	1.977	1.977	3.10	17588	0.01	2	
Co	59	2	He	2.000	2.000	1.59	35005	0.01	2	
Ni	60	2	He	2.113	2.113	2.54	9684	0.02	2	
Cu	63	2	He	2.033	2.033	2.65	24743	0.01	2	
Zn	66	2	He	2.507	2.507	1.29	6368	0.04	2	
Al	27	2	He	2.806	2.806	11.29	3567	0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	12.495	12.495	2.25	53077	0.02	10	
Al	27	1	No Gas	2.932	2.932	4.41	134448	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.760	11.760	11.65	516388	0.00	10	
Ag	107	1	No Gas	2.018	2.018	1.88	67708	0.00	2	
Cd	111	1	No Gas	2.026	2.026	2.35	13349	0.02	2	
Sr	88	1	No Gas	1.947	1.947	1.36	130401	0.00	2	
Mo	95	1	No Gas	1.910	1.910	2.16	24129	0.01	2	
Sn	118	1	No Gas	2.093	2.093	2.53	51554	0.00	2	
Sb	121	1	No Gas	2.112	2.112	2.68	60886	0.00	2	
Ba	137	1	No Gas	2.223	2.223	2.57	25114	0.01	2	
Tl	205	1	No Gas	1.801	1.801	1.43	139174	0.00	2	
Tl	203	1	No Gas	1.858	1.858	0.94	58375	0.00	2	
Pb	208	1	No Gas	1.969	1.969	2.01	209612	0.00	2	
U	238	1	No Gas	1.878	1.878	1.25	208088	0.00	2	
Ca	43	2	He	193.860	193.860	11.45	770	25.18	200	
Sb	121	2	He	2.094	2.094	3.93	26113	0.01	2	
Ti	47	2	He	1.957	1.957	7.48	743	0.26	200	
Cu	63	1	No Gas	2.029	2.029	1.78	53501	0.00	2	
Se	82	1	No Gas	1.939	1.939	14.73	1177	0.16	2	
Zr	90	1	No Gas	1.648	1.648	2.26	68476	0.00	2	
Zr	90	2	He	1.691	1.691	0.11	28761	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1526050	0.49	1676119	91.05	70	120	
Ge	72	2	He	1122637	0.21	1163381	96.50	70	120	
Ge	72	1	No Gas	3966371	0.78	4078799	97.24	70	120	
In	115	1	No Gas	5087287	0.59	5144583	98.89	70	120	
Bi	209	1	No Gas	5106980	1.07	4944446	103.29	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	126LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:13:29-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.062	5.062	1.64	192457	0.00	5	
Be	9	1	No Gas	4.944	4.944	0.69	27796	0.02	5	
V	51	2	He	4.907	4.907	3.53	51910	0.01	5	
Cr	52	2	He	4.935	4.935	3.05	67685	0.01	5	
Fe	56	2	He	500.046	500.046	3.76	5311641	0.01	500	
Se	78	2	He	4.967	4.967	2.99	921	0.54	5	
As	75	2	He	4.972	4.972	1.83	9044	0.05	5	
Ca	44	2	He	501.470	501.470	2.79	33247	1.51	500	
Na	23	2	He	434.491	434.491	4.79	1071934	0.04	500	
Mg	24	2	He	493.228	493.228	3.82	529770	0.09	500	
K	39	2	He	489.295	489.295	3.79	724104	0.07	500	
Mn	55	2	He	4.935	4.935	3.90	42991	0.01	5	
Co	59	2	He	4.977	4.977	3.78	86554	0.01	5	
Ni	60	2	He	5.115	5.115	3.49	23030	0.02	5	
Cu	63	2	He	5.065	5.065	2.15	60985	0.01	5	
Zn	66	2	He	5.362	5.362	5.60	12676	0.04	5	
Al	27	2	He	5.152	5.152	11.41	5134	0.10	5	
B	11	1	No Gas	26.480	26.480	1.48	99487	0.03	25	
Al	27	1	No Gas	4.894	4.894	1.60	181312	0.00	5	
Si	28	1	No Gas	26.094	26.094	1.49	681860	0.00	25	
Ag	107	1	No Gas	5.113	5.113	2.46	168860	0.00	5	
Cd	111	1	No Gas	5.018	5.018	0.96	32871	0.02	5	
Sr	88	1	No Gas	4.809	4.809	1.52	315266	0.00	5	
Mo	95	1	No Gas	4.922	4.922	2.15	61557	0.01	5	
Sn	118	1	No Gas	5.084	5.084	1.53	115422	0.00	5	
Sb	121	1	No Gas	5.252	5.252	0.31	149728	0.00	5	
Ba	137	1	No Gas	4.988	4.988	1.46	55113	0.01	5	
Tl	205	1	No Gas	4.756	4.756	0.69	361715	0.00	5	
Tl	203	1	No Gas	4.922	4.922	0.94	152362	0.00	5	
Pb	208	1	No Gas	4.960	4.960	0.99	517621	0.00	5	
U	238	1	No Gas	4.717	4.717	1.28	514916	0.00	5	
Ca	43	2	He	467.477	467.477	8.35	1810	25.83	500	
Sb	121	2	He	5.061	5.061	3.36	63224	0.01	5	
Ti	47	2	He	4.584	4.584	15.47	1730	0.26	5	
Cu	63	1	No Gas	5.127	5.127	0.38	124150	0.00	5	
Se	82	1	No Gas	5.178	5.178	12.53	2414	0.21	5	
Zr	90	1	No Gas	4.388	4.388	1.44	179140	0.00	5	
Zr	90	2	He	4.428	4.428	4.42	73017	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1507153	0.32	1676119	89.92	70	120	

Sample Report

Ge	72	2	He	1131031	1.52	1163381	97.22	70	120	
Ge	72	1	No Gas	3944895	0.51	4078799	96.72	70	120	
In	115	1	No Gas	5059192	0.84	5144583	98.34	70	120	
Bi	209	1	No Gas	5090535	0.59	4944446	102.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	127_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:15:52-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.039	106.9	84314	1.4	0.5	
Be	9	1	No Gas	0.005	58.7	242	7.3	0.5	
V	51	2	He	-0.020	-35.4	3479	1.9	2.5	
Cr	52	2	He	-0.002	-2396.6	12583	5.2	2.5	
Fe	56	2	He	2.989	3.1	51483	2.0	100	
Se	78	2	He	-0.027	-597.7	145	17.5	1	
As	75	2	He	-0.012	-141.5	314	9.6	2.5	
Ca	44	2	He	42.639	7.5	3641	5.6	100	
Na	23	2	He	-56.344	-2.0	214242	1.0	100	
Mg	24	2	He	1.985	8.5	2994	5.9	100	
K	39	2	He	-3.774	-40.0	116543	1.7	100	
Mn	55	2	He	0.146	12.2	2057	7.2	2.5	
Co	59	2	He	0.005	130.1	860	12.3	2.5	
Ni	60	2	He	0.130	10.8	983	6.1	2.5	
Cu	63	2	He	0.066	4.2	1520	2.4	1	
Zn	66	2	He	0.942	7.3	2980	5.2	2.5	
Al	27	2	He	2.058	9.3	3097	4.2	5	
B	11	1	No Gas	1.967	5.1	17314	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.118	5.9	113930	2.5	5	
Si	28	1	No Gas	4.725	6.6	430864	1.0	10	
Ag	107	1	No Gas	-0.003	-164.7	1013	16.5	2.5	
Cd	111	1	No Gas	-0.001	-212.4	-6	-286.3	1	
Sr	88	1	No Gas	0.100	11.6	9904	7.4	2.5	
Mo	95	1	No Gas	0.012	6.0	340	2.9	2.5	
Sn	118	1	No Gas	0.041	50.9	7272	6.3	5	
Sb	121	1	No Gas	0.033	7.3	1510	4.3	2.5	
Ba	137	1	No Gas	0.221	14.3	3174	11.1	2.5	
Tl	205	1	No Gas	0.002	178.1	2990	10.2	1	
Tl	203	1	No Gas	0.006	65.1	1270	8.9	1	
Pb	208	1	No Gas	0.006	50.5	6271	4.7	2.5	
U	238	1	No Gas	0.003	75.2	4261	5.6	2.5	
Ca	43	2	He	30.325	13.1	157	9.8	100	
Sb	121	2	He	0.031	17.4	617	10.8	2.5	
Ti	47	2	He	-0.008	-198.8	13	43.3	2.5	
Se	82	1	No Gas	0.055	104.9	447	5.2	1	
Zr	90	1	No Gas	0.086	10.3	4784	7.6	2.5	
Zr	90	2	He	0.070	32.5	2864	12.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1536705	0.30	1676119	91.68	70	120	
Ge	72	2	He	1129419	0.19	1163381	97.08	70	120	
Ge	72	1	No Gas	3942786	0.19	4078799	96.67	70	120	
In	115	1	No Gas	5077277	0.28	5144583	98.69	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	5083205	0.55	4944446	102.81	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	128_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:18:16-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	99.498	2.460	2177117	2.37	100	99.5	90	110	
Be	9	1	No Gas	99.663	2.658	536902	2.66	100	99.7	90	110	
V	51	2	He	99.833	1.632	974654	1.60	100	99.8	90	110	
Cr	52	2	He	100.212	2.031	1118697	1.80	100	100.2	90	110	
Fe	56	2	He	10077.376	0.687	105560958	1.15	10000	100.8	90	110	
Se	78	2	He	101.341	2.780	15721	3.16	100	101.3	90	110	
As	75	2	He	100.233	1.379	174028	1.62	100	100.2	90	110	
Ca	44	2	He	9861.725	1.168	630454	1.62	10000	98.6	90	110	
Na	23	2	He	10020.113	0.647	17633239	1.51	10000	100.2	90	110	
Mg	24	2	He	10086.049	0.891	10704612	1.23	10000	100.9	90	110	
K	39	2	He	10033.475	1.427	12352314	1.74	10000	100.3	90	110	
Mn	55	2	He	99.976	1.300	846637	2.27	100	100.0	90	110	
Co	59	2	He	100.957	1.037	1722475	0.87	100	101.0	90	110	
Ni	60	2	He	101.174	1.239	443088	1.28	100	101.2	90	110	
Cu	63	2	He	100.887	1.441	1188162	1.13	100	100.9	90	110	
Zn	66	2	He	102.229	2.548	222732	1.77	100	102.2	90	110	
Al	27	2	He	101.700	2.062	67910	2.45	100	101.7	90	110	
B	11	1	No Gas	503.925	1.365	1646673	1.36	500	100.8	90	110	
Al	27	1	No Gas	98.015	2.661	2424660	1.98	100	98.0	90	110	
Si	28	1	No Gas	493.126	2.811	6125285	2.04	500	98.6	90	110	
Ag	107	1	No Gas	99.246	1.546	3192384	1.23	100	99.2	90	110	
Cd	111	1	No Gas	98.208	2.120	630472	2.15	100	98.2	90	110	
Sr	88	1	No Gas	98.939	1.831	6291956	1.36	100	98.9	90	110	
Mo	95	1	No Gas	98.045	1.291	1198185	0.93	100	98.0	90	110	
Sn	118	1	No Gas	99.381	1.674	2095373	1.59	100	99.4	90	110	
Sb	121	1	No Gas	98.636	2.147	2784794	1.55	100	98.6	90	110	
Ba	137	1	No Gas	98.472	2.089	1052154	1.70	100	98.5	90	110	
Tl	205	1	No Gas	98.785	2.262	7343951	2.57	100	98.8	90	110	
Tl	203	1	No Gas	98.566	1.754	2984190	2.21	100	98.6	90	110	
Pb	208	1	No Gas	98.360	2.202	10005159	2.66	100	98.4	90	110	
U	238	1	No Gas	98.346	2.280	10495651	2.72	100	98.3	90	110	
Ca	43	2	He	9929.435	2.559	37220	1.76	10000	99.3	90	110	
Sb	121	2	He	99.177	1.101	1221978	1.44	100	99.2	90	110	
Ti	47	2	He	101.082	1.683	37454	0.92	100	101.1	90	110	
Cu	63	1	No Gas	99.696	2.380	2275133	1.78	100	99.7	90	110	
Se	82	1	No Gas	100.663	2.338	38846	1.71	100	100.7	90	110	
Zr	90	1	No Gas	97.330	1.765	3867343	1.29	100	97.3	90	110	
Zr	90	2	He	97.795	0.591	1559828	1.35	100	97.8	90	1100	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1454301	0.00	1676119	86.77	70	120	
Ge	72	2	He	1118961	1.46	1163381	96.18	70	120	
Ge	72	1	No Gas	3921161	0.61	4078799	96.14	70	120	
In	115	1	No Gas	4957788	0.53	5144583	96.37	70	120	
Bi	209	1	No Gas	5013513	0.91	4944446	101.40	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	130ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:29:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.358	1.6	82287	0.3	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	19.9	325	8.6	0	ICSA Main CR1 Failed
V	51	2	He	0.267	9.7	5997	3.6	0	ICSA Main CR1 Failed
Cr	52	2	He	0.806	4.0	20562	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	98348.270	1.3	990302145	1.5	0	
Se	78	2	He	0.151	168.4	164	22.6	0	ICSA Main CR1 Failed
As	75	2	He	0.371	6.7	938	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	99406.286	1.8	6102115	2.1	0	
Na	23	2	He	99974.006	1.5	166468284	1.7	0	
Mg	24	2	He	98846.466	1.9	100855442	2.1	0	
K	39	2	He	101153.495	1.3	118678692	1.5	0	
Mn	55	2	He	1.810	2.9	15489	2.7	0	ICSA Main CR1 Failed
Co	59	2	He	1.010	1.2	17298	1.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.998	2.6	4591	1.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.708	3.9	8710	3.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.944	1.6	7015	1.3	0	ICSA Main CR1 Failed
Al	27	2	He	103953.730	1.9	65038362	2.1	0	
B	11	1	No Gas	3.288	9.6	19667	4.8	0	
Al	27	1	No Gas	98464.957	2.8	2217983434	1.9	0	
Si	28	1	No Gas	37.470	10.5	757742	6.5	0	
Ag	107	1	No Gas	0.025	22.7	1760	11.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.735	19.8	4351	18.6	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.887	3.4	55119	1.8	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2006.802	2.1	22649670	0.9	0	
Sn	118	1	No Gas	0.218	10.3	10001	4.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.164	10.5	4851	9.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.439	6.4	5014	4.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.006	40.7	2890	5.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	33.6	1243	7.2	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.874	2.6	85471	2.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.1	4271	3.5	0	ICSA Main CR1 Failed
Ca	43	2	He	95843.592	0.9	345112	1.2	0	
Sb	121	2	He	0.146	4.1	1947	3.9	0	ICSA Main CR1 Failed
Ti	47	2	He	2001.390	2.1	712750	2.2	0	
Se	82	1	No Gas	0.416	44.1	543	11.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383481	0.37	1676119	82.54	70	120	
Ge	72	2	He	1075739	0.47	1163381	92.47	70	120	
Ge	72	1	No Gas	3664810	1.04	4078799	89.85	70	120	
In	115	1	No Gas	4580139	1.50	5144583	89.03	70	120	
Bi	209	1	No Gas	4540268	0.63	4944446	91.83	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	131ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:32:11-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	101.638	1.890	2078349	1.54	100	101.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	96.891	1.764	488179	1.43	100	96.9	80	120	
V	51	2	He	99.387	2.466	954030	2.28	100	99.4	80	120	
Cr	52	2	He	97.577	2.732	1071343	2.49	100	97.6	80	120	
Fe	56	2	He	104873.313	2.892	1079903451	2.76	100	104873.3	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.827	3.107	15680	2.92	100	102.8	80	120	
As	75	2	He	100.327	2.567	171266	2.50	100	100.3	80	120	
Ca	44	2	He	104746.385	3.200	6575082	2.88	100	104746.4	80	120	ICSB Main CR1 Failed
Na	23	2	He	105760.470	2.387	180072257	2.23	100	105760.5	80	120	ICSB Main CR1 Failed
Mg	24	2	He	104449.605	2.907	108984382	2.78	100	104449.6	80	120	ICSB Main CR1 Failed
K	39	2	He	105904.002	2.042	127062011	2.03	100	105904.0	80	120	ICSB Main CR1 Failed
Mn	55	2	He	97.499	2.820	811730	2.70	100	97.5	80	120	
Co	59	2	He	96.529	2.584	1619375	2.56	100	96.5	80	120	
Ni	60	2	He	94.087	3.196	405161	3.07	100	94.1	80	120	
Cu	63	2	He	93.867	2.544	1087015	2.44	100	93.9	80	120	
Zn	66	2	He	98.536	3.575	211139	3.45	100	98.5	80	120	
Al	27	2	He	98705.068	2.485	63154012	2.53	100	98705.1	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	518.422	1.250	1584088	0.81	100	518.4	80	120	
Al	27	1	No Gas	94212.890	3.179	2179570421	1.84	100	94212.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	530.795	2.471	6301319	1.00	100	530.8	80	120	
Ag	107	1	No Gas	98.537	2.057	2962834	0.87	100	98.5	80	120	
Cd	111	1	No Gas	100.069	1.571	600531	0.85	100	100.1	80	120	
Sr	88	1	No Gas	104.207	3.641	6193324	1.82	100	104.2	80	120	
Mo	95	1	No Gas	2067.179	3.113	23607650	1.32	100	2067.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	103.654	2.524	2042502	1.01	100	103.7	80	120	
Sb	121	1	No Gas	104.423	1.629	2830034	0.72	100	104.4	80	120	
Ba	137	1	No Gas	102.771	1.706	1026480	0.50	100	102.8	80	120	
Tl	205	1	No Gas	97.338	0.869	6609837	0.63	100	97.3	80	120	
Tl	203	1	No Gas	97.747	1.039	2703125	0.80	100	97.7	80	120	
Pb	208	1	No Gas	103.277	1.340	9595010	1.10	100	103.3	80	120	
U	238	1	No Gas	104.453	1.397	10181597	1.16	100	104.5	80	120	
Ca	43	2	He	100740.236	2.838	370936	2.43	100	100740.2	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.227	2.794	1226244	2.56	100	101.2	80	120	
Ti	47	2	He	1990.942	3.139	725056	2.84	100	1990.9	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.523	2.354	2114542	1.02	100	96.5	80	120	
Se	82	1	No Gas	106.484	4.113	39414	2.76	100	106.5	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	1360186	0.44	1676119	81.15	70	120	
Ge	72	2	He	1100153	0.73	1163381	94.57	70	120	
Ge	72	1	No Gas	3764228	1.32	4078799	92.29	70	120	
In	115	1	No Gas	4635240	1.79	5144583	90.10	70	120	
Bi	209	1	No Gas	4579544	0.24	4944446	92.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	134_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:42:30-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.550	2.241	2061873	2.02	100	100.5	90	110	
Be	9	1	No Gas	100.052	1.868	505319	1.70	100	100.1	90	110	
V	51	2	He	99.859	0.584	965369	1.02	100	99.9	90	110	
Cr	52	2	He	100.180	0.831	1107406	0.92	100	100.2	90	110	
Fe	56	2	He	10111.096	0.279	104874045	0.76	10000	101.1	90	110	
Se	78	2	He	99.498	0.361	15285	0.45	100	99.5	90	110	
As	75	2	He	99.895	1.468	171738	1.55	100	99.9	90	110	
Ca	44	2	He	9724.528	1.427	615575	1.47	10000	97.2	90	110	
Na	23	2	He	9968.711	1.214	17371078	1.09	10000	99.7	90	110	
Mg	24	2	He	10025.231	1.036	10535448	1.03	10000	100.3	90	110	
K	39	2	He	10028.992	1.180	12225331	1.18	10000	100.3	90	110	
Mn	55	2	He	98.574	0.220	826507	0.78	100	98.6	90	110	
Co	59	2	He	101.461	0.395	1714134	0.67	100	101.5	90	110	
Ni	60	2	He	100.915	0.873	437613	0.61	100	100.9	90	110	
Cu	63	2	He	100.976	0.687	1177584	0.86	100	101.0	90	110	
Zn	66	2	He	101.242	0.983	218454	1.14	100	101.2	90	110	
Al	27	2	He	99.661	1.090	65928	1.31	100	99.7	90	110	
B	11	1	No Gas	511.988	1.184	1568355	1.13	500	102.4	90	110	
Al	27	1	No Gas	97.019	2.053	2343938	1.40	100	97.0	90	110	
Si	28	1	No Gas	482.926	1.955	5864650	1.60	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.724	1.652	3194823	1.10	100	99.7	90	110	
Cd	111	1	No Gas	98.143	1.836	627490	1.25	100	98.1	90	110	
Sr	88	1	No Gas	97.968	2.359	6205063	1.79	100	98.0	90	110	
Mo	95	1	No Gas	97.400	1.108	1185561	1.08	100	97.4	90	110	
Sn	118	1	No Gas	99.937	1.474	2098563	1.08	100	99.9	90	110	
Sb	121	1	No Gas	101.141	1.852	2788029	1.33	100	101.1	90	110	
Ba	137	1	No Gas	98.473	1.519	1047941	0.93	100	98.5	90	110	
Tl	205	1	No Gas	99.346	1.126	7459016	1.64	100	99.3	90	110	
Tl	203	1	No Gas	99.800	0.947	3051461	1.30	100	99.8	90	110	
Pb	208	1	No Gas	98.877	1.722	10157533	2.23	100	98.9	90	110	
U	238	1	No Gas	99.247	0.797	10696650	1.34	100	99.2	90	110	
Ca	43	2	He	9911.115	2.777	36789	2.39	10000	99.1	90	110	
Sb	121	2	He	100.093	1.084	1221112	0.81	100	100.1	90	110	
Ti	47	2	He	98.676	1.059	36208	1.34	100	98.7	90	110	
Cu	63	1	No Gas	99.448	1.635	2215962	1.50	100	99.4	90	110	
Se	82	1	No Gas	98.686	3.479	37188	2.69	100	98.7	90	110	
Zr	90	1	No Gas	95.462	2.317	3777884	1.88	100	95.5	90	110	
Zr	90	2	He	98.212	1.248	1550985	0.77	100	98.2	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	1363455	0.23	1676119	81.35	70	120	
Ge	72	2	He	1107920	0.57	1163381	95.23	70	120	
Ge	72	1	No Gas	3828711	1.61	4078799	93.87	70	120	
In	115	1	No Gas	4937954	0.74	5144583	95.98	70	120	
Bi	209	1	No Gas	5063257	0.64	4944446	102.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	135_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:44:54-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.003	826.4	79564	1.4	0.5	
Be	9	1	No Gas	0.015	64.9	280	19.3	0.5	
V	51	2	He	-0.173	-1.5	1995	2.2	2.5	
Cr	52	2	He	-0.483	-1.4	7275	2.5	2.5	
Fe	56	2	He	1.011	7.0	30752	3.9	100	
Se	78	2	He	0.095	106.1	165	11.0	2	
As	75	2	He	-0.034	-35.4	278	6.2	2.5	
Ca	44	2	He	3.112	10.6	1100	3.3	100	
Na	23	2	He	-81.597	-1.6	171139	0.1	100	
Mg	24	2	He	0.183	15.8	1070	4.3	100	
K	39	2	He	-1.240	-27.3	120354	1.5	100	
Mn	55	2	He	0.160	19.6	2190	13.5	2.5	
Co	59	2	He	0.004	56.4	857	5.8	2.5	
Ni	60	2	He	0.059	25.6	673	9.9	2.5	
Cu	63	2	He	0.041	28.0	1223	10.9	2	
Zn	66	2	He	0.669	8.6	2394	4.4	2.5	
Al	27	2	He	-0.961	-17.7	1120	9.4	5	
B	11	1	No Gas	3.471	10.7	21420	5.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.813	-21.0	42736	9.4	5	
Si	28	1	No Gas	0.666	66.0	381886	1.3	10	
Ag	107	1	No Gas	-0.012	-12.8	737	6.1	2.5	
Cd	111	1	No Gas	0.000	-422.4	0	-2056.6	1	
Sr	88	1	No Gas	-0.024	-9.9	1820	9.1	2.5	
Mo	95	1	No Gas	0.097	9.0	1400	7.5	2.5	
Sn	118	1	No Gas	0.014	122.5	6698	5.8	5	
Sb	121	1	No Gas	0.187	14.7	5868	13.2	2.5	
Ba	137	1	No Gas	0.013	31.2	903	5.5	2.5	
Tl	205	1	No Gas	0.012	45.6	3747	11.2	1	
Tl	203	1	No Gas	0.015	47.4	1577	14.5	1	
Pb	208	1	No Gas	0.009	47.4	6624	6.1	2.5	
U	238	1	No Gas	0.007	33.5	4794	5.4	2.5	
Ca	43	2	He	7.235	92.2	70	37.8	100	
Sb	121	2	He	0.139	13.1	1967	13.0	2.5	
Ti	47	2	He	-0.017	-161.8	10	100.0	2.5	
Cu	63	1	No Gas	-0.140	-3.3	3551	2.8	2.5	
Se	82	1	No Gas	-0.001	-10404.7	423	10.7	2	
Zr	90	1	No Gas	0.177	20.2	8490	16.9	2.5	
Zr	90	2	He	0.109	17.5	3521	9.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464404	1.12	1676119	87.37	70	120	
Ge	72	2	He	1135977	1.44	1163381	97.64	70	120	
Ge	72	1	No Gas	3928910	0.27	4078799	96.33	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5079849	0.51	5144583	98.74	70	120	
Bi	209	1	No Gas	5145448	0.60	4944446	104.07	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213798
Data File Name	136SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:47:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	-0.019	-0.019	-153.28	79922	0.00	2000	
Be	9	1	No Gas	0.010	0.010	50.47	257	0.00	2000	
V	51	2	He	-0.184	-0.184	-2.24	1867	-0.01	2000	
Cr	52	2	He	-0.451	-0.451	-2.69	7556	-0.01	2000	
Fe	56	2	He	2.172	2.172	3.42	42683	0.01	200000	
Se	78	2	He	0.119	0.119	121.98	167	0.07	2000	
As	75	2	He	-0.041	-0.041	-52.35	262	-0.02	2000	
Ca	44	2	He	21.240	21.240	10.30	2254	0.94	200000	
Na	23	2	He	-83.461	-83.461	-0.42	166312	-0.05	200000	
Mg	24	2	He	0.992	0.992	2.41	1924	0.05	200000	
K	39	2	He	-0.537	-0.537	-117.71	120086	0.00	200000	
Mn	55	2	He	0.546	0.546	3.38	5448	0.01	2000	
Co	59	2	He	-0.001	-0.001	-1089.80	763	0.00	2000	
Ni	60	2	He	0.232	0.232	10.35	1430	0.02	2000	
Cu	63	2	He	0.132	0.132	5.46	2300	0.01	2000	
Zn	66	2	He	1.940	1.940	4.37	5148	0.04	2000	
Al	27	2	He	0.529	0.529	91.52	2084	0.03	2000	
B	11	1	No Gas	1.364	1.364	13.04	14674	0.01	2000	
Al	27	1	No Gas	0.574	0.574	2.54	76260	0.00	2000	
Si	28	1	No Gas	2.829	2.829	7.45	407269	0.00	2000	
Ag	107	1	No Gas	-0.015	-0.015	-39.91	630	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	-352.35	-16	0.02	2000	
Sr	88	1	No Gas	-0.008	-0.008	-55.32	2897	0.00	2000	
Mo	95	1	No Gas	0.041	0.041	7.49	703	0.01	2000	
Sn	118	1	No Gas	0.153	0.153	13.35	9661	0.00	2000	
Sb	121	1	No Gas	0.051	0.051	1.87	2007	0.00	2000	
Ba	137	1	No Gas	0.011	0.011	101.48	873	0.00	2000	
Tl	205	1	No Gas	0.002	0.002	30.09	2990	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	44.76	1337	0.00	2000	
Pb	208	1	No Gas	0.015	0.015	21.67	7261	0.00	2000	
U	238	1	No Gas	0.003	0.003	94.33	4338	0.00	2000	
Ca	43	2	He	27.848	27.848	22.68	147	18.99	200000	
Sb	121	2	He	0.051	0.051	12.63	857	0.01	2000	
Ti	47	2	He	0.011	0.011	673.62	20	0.05	2000	
Cu	63	1	No Gas	-0.057	-0.057	-24.66	5455	0.00	2000	
Ca	44	1	No Gas	19.957	19.957	6.93	44378	0.04	200000	
Zn	66	1	No Gas	1.810	1.810	2.13	14004	0.01	2000	
Se	82	1	No Gas	-0.281	-0.281	-33.32	317	-0.09	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	1479387	0.60	1676119	88.26	70	120	
Ge	72	2	He	1125319	0.72	1163381	96.73	70	120	
Ge	72	1	No Gas	3929819	0.86	4078799	96.35	70	120	

Sample Report

In	115	1	No Gas	5056449	0.50	5144583	98.29	70	120	
Bi	209	1	No Gas	5170787	0.28	4944446	104.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:49:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	90.118	90.118	2.03	1865004	0.00	2000	
Be	9	1	No Gas	46.508	46.508	1.77	236176	0.02	2000	
V	51	2	He	46.335	46.335	3.53	449982	0.01	2000	
Cr	52	2	He	47.169	47.169	3.10	528120	0.01	2000	
Fe	56	2	He	4812.026	4812.026	2.91	49937048	0.01	200000	
Se	78	2	He	47.191	47.191	4.21	7328	0.64	2000	
As	75	2	He	47.172	47.172	2.29	81300	0.06	2000	
Ca	44	2	He	4767.361	4767.361	3.41	302308	1.58	200000	
Na	23	2	He	4680.112	4680.112	2.65	8320905	0.06	200000	
Mg	24	2	He	4806.518	4806.518	3.26	5053058	0.10	200000	
K	39	2	He	4746.942	4746.942	3.67	5850647	0.08	200000	
Mn	55	2	He	49.095	49.095	2.96	412167	0.01	2000	
Co	59	2	He	47.616	47.616	2.81	805106	0.01	2000	
Ni	60	2	He	48.371	48.371	1.29	210063	0.02	2000	
Cu	63	2	He	47.830	47.830	3.00	558357	0.01	2000	
Zn	66	2	He	55.087	55.087	2.09	119319	0.05	2000	
Al	27	2	He	105.182	105.182	3.15	69504	0.15	2000	
B	11	1	No Gas	414.139	414.139	1.26	1276784	0.03	2000	
Al	27	1	No Gas	101.489	101.489	2.94	2464515	0.00	2000	
Si	28	1	No Gas	498.782	498.782	2.71	6083123	0.01	2000	
Ag	107	1	No Gas	47.933	47.933	1.96	1543085	0.00	2000	
Cd	111	1	No Gas	46.529	46.529	2.25	298848	0.02	2000	
Sr	88	1	No Gas	82.851	82.851	2.89	5271516	0.00	2000	
Mo	95	1	No Gas	45.928	45.928	2.00	561612	0.01	2000	
Sn	118	1	No Gas	83.809	83.809	1.77	1768773	0.00	2000	
Sb	121	1	No Gas	49.259	49.259	2.75	1366666	0.00	2000	
Ba	137	1	No Gas	46.744	46.744	1.78	500070	0.01	2000	
Tl	205	1	No Gas	40.165	40.165	1.27	3047483	0.00	2000	
Tl	203	1	No Gas	39.873	39.873	1.19	1232024	0.00	2000	
Pb	208	1	No Gas	46.427	46.427	1.24	4820006	0.00	2000	
U	238	1	No Gas	85.576	85.576	1.30	9316118	0.00	2000	
Ca	43	2	He	4848.856	4848.856	6.46	18022	26.91	200000	
Sb	121	2	He	48.713	48.713	2.48	594625	0.01	2000	
Ti	47	2	He	128.774	128.774	3.91	47257	0.27	2000	
Cu	63	1	No Gas	46.788	46.788	2.18	1052631	0.00	2000	
Ca	44	1	No Gas	4744.246	4744.246	2.68	4254771	0.11	200000	
Zn	66	1	No Gas	53.433	53.433	2.47	330574	0.02	2000	
Se	82	1	No Gas	46.296	46.296	2.65	17779	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1370254	0.33	1676119	81.75	70	120	
Ge	72	2	He	1108488	1.10	1163381	95.28	70	120	
Ge	72	1	No Gas	3852818	1.23	4078799	94.46	70	120	

Sample Report

In	115	1	No Gas	4960094	1.07	5144583	96.41	70	120	
Bi	209	1	No Gas	5113667	0.95	4944446	103.42	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:52:05-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	3.244	16.218	3.03	145979	0.00	2000	
Be	9	1	No Gas	0.013	0.066	36.81	268	0.00	2000	
V	51	2	He	0.145	0.726	20.25	5081	0.00	2000	
Cr	52	2	He	-0.077	-0.384	-51.78	11705	0.00	2000	
Fe	56	2	He	45.694	228.469	0.77	500935	0.01	200000	
Se	78	2	He	0.176	0.880	96.69	175	0.10	2000	
As	75	2	He	0.063	0.317	42.18	444	0.01	2000	
Ca	44	2	He	3250.460	16252.298	0.74	209507	1.55	200000	
Na	23	2	He	36582.220	182911.100	1.06	63896271	0.06	200000	
Mg	24	2	He	1746.611	8733.054	0.98	1864384	0.09	200000	
K	39	2	He	221.549	1107.745	1.27	392285	0.06	200000	
Mn	55	2	He	41.009	205.045	1.47	349566	0.01	2000	
Co	59	2	He	0.186	0.932	10.85	3971	0.00	2000	
Ni	60	2	He	0.925	4.624	2.75	4477	0.02	2000	
Cu	63	2	He	0.220	1.101	5.06	3337	0.01	2000	
Zn	66	2	He	12.935	64.673	3.74	29138	0.04	2000	
Al	27	2	He	5.698	28.491	6.07	5464	0.10	2000	
B	11	1	No Gas	6.060	30.299	4.02	29400	0.02	2000	
Al	27	1	No Gas	5.572	27.861	2.30	196322	0.00	2000	
Si	28	1	No Gas	4737.154	23685.772	2.14	55559688	0.01	2000	>LDR
Ag	107	1	No Gas	-0.005	-0.024	-94.28	953	0.00	2000	
Cd	111	1	No Gas	0.029	0.147	18.70	195	0.02	2000	
Sr	88	1	No Gas	50.030	250.149	1.74	3253428	0.00	2000	
Mo	95	1	No Gas	0.074	0.372	7.74	1117	0.01	2000	
Sn	118	1	No Gas	0.570	2.849	2.54	18627	0.00	2000	
Sb	121	1	No Gas	0.083	0.413	10.87	2900	0.00	2000	
Ba	137	1	No Gas	39.688	198.441	0.57	433846	0.01	2000	
Tl	205	1	No Gas	0.051	0.254	38.05	6692	0.00	2000	
Tl	203	1	No Gas	0.057	0.283	48.76	2850	0.00	2000	
Pb	208	1	No Gas	0.020	0.102	11.44	7784	0.00	2000	
U	238	1	No Gas	0.124	0.619	1.18	17459	0.00	2000	
Ca	43	2	He	3386.574	16932.869	2.60	12789	26.48	200000	
Sb	121	2	He	0.072	0.358	4.11	1117	0.01	2000	
Ti	47	2	He	0.297	1.487	46.79	127	0.23	2000	
Cu	63	1	No Gas	0.293	1.463	2.33	13373	0.00	2000	
Ca	44	1	No Gas	3253.141	16265.704	2.06	2973953	0.11	200000	
Zn	66	1	No Gas	12.399	61.995	1.07	80019	0.02	2000	
Se	82	1	No Gas	-0.225	-1.126	-74.55	337	-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	1440651	0.26	1676119	85.95	70	120	
Ge	72	2	He	1124946	1.43	1163381	96.70	70	120	
Ge	72	1	No Gas	3916111	0.42	4078799	96.01	70	120	

Sample Report

In	115	1	No Gas	5066507	0.52	5144583	98.48	70	120	
Bi	209	1	No Gas	5117974	0.40	4944446	103.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:56:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	106.680	106.680	1.65	2224677	0.00	2000	
Be	9	1	No Gas	48.892	48.892	2.50	251739	0.02	2000	
V	51	2	He	48.943	48.943	1.46	475631	0.01	2000	
Cr	52	2	He	48.654	48.654	1.99	544933	0.01	2000	
Fe	56	2	He	5024.801	5024.801	1.20	52198906	0.01	200000	
Se	78	2	He	49.351	49.351	2.22	7666	0.64	2000	
As	75	2	He	49.353	49.353	2.35	85128	0.06	2000	
Ca	44	2	He	20761.088	20761.088	1.80	1315019	1.58	200000	
Na	23	2	He	180990.998	180990.998	1.81	310549649	0.06	200000	>LDR
Mg	24	2	He	13188.123	13188.123	1.83	13878134	0.10	200000	
K	39	2	He	5947.848	5947.848	2.16	7308952	0.08	200000	
Mn	55	2	He	238.452	238.452	1.51	2000898	0.01	2000	
Co	59	2	He	48.268	48.268	0.99	816986	0.01	2000	
Ni	60	2	He	50.235	50.235	0.94	218344	0.02	2000	
Cu	63	2	He	48.618	48.618	1.41	568136	0.01	2000	
Zn	66	2	He	57.661	57.661	2.59	124971	0.05	2000	
Al	27	2	He	107.557	107.557	1.92	71113	0.15	2000	
B	11	1	No Gas	447.064	447.064	1.46	1396772	0.03	2000	
Al	27	1	No Gas	105.530	105.530	2.28	2571165	0.00	2000	
Si	28	1	No Gas	23175.698	23175.698	1.95	267105849	0.01	2000	>LDR
Ag	107	1	No Gas	47.548	47.548	1.60	1510927	0.00	2000	
Cd	111	1	No Gas	48.228	48.228	1.41	305751	0.02	2000	
Sr	88	1	No Gas	327.595	327.595	1.94	20566071	0.00	2000	
Mo	95	1	No Gas	48.032	48.032	1.42	579760	0.01	2000	
Sn	118	1	No Gas	85.376	85.376	1.87	1778464	0.00	2000	
Sb	121	1	No Gas	49.815	49.815	2.41	1387901	0.00	2000	
Ba	137	1	No Gas	244.270	244.270	2.45	2576340	0.01	2000	
Tl	205	1	No Gas	41.752	41.752	2.35	2985330	0.00	2000	
Tl	203	1	No Gas	41.590	41.590	2.68	1211003	0.00	2000	
Pb	208	1	No Gas	48.029	48.029	1.24	4698955	0.00	2000	
U	238	1	No Gas	88.810	88.810	1.44	9111231	0.00	2000	
Ca	43	2	He	20503.621	20503.621	1.81	76175	26.92	200000	
Sb	121	2	He	49.645	49.645	1.60	606600	0.01	2000	
Ti	47	2	He	136.121	136.121	2.10	50007	0.27	2000	
Cu	63	1	No Gas	49.727	49.727	2.29	1123040	0.00	2000	
Ca	44	1	No Gas	20234.475	20234.475	1.86	18139493	0.11	200000	
Zn	66	1	No Gas	56.550	56.550	2.81	351169	0.02	2000	
Se	82	1	No Gas	48.703	48.703	1.08	18760	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1389407	0.10	1676119	82.89	70	120	
Ge	72	2	He	1109429	0.30	1163381	95.36	70	120	
Ge	72	1	No Gas	3868868	0.88	4078799	94.85	70	120	
In	115	1	No Gas	4895995	0.43	5144583	95.17	70	120	
Bi	209	1	No Gas	4819697	0.34	4944446	97.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:59:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	107.408	107.408	2.16	2264831	0.00	2000	
Be	9	1	No Gas	49.077	49.077	2.11	255558	0.02	2000	
V	51	2	He	49.027	49.027	1.95	487197	0.01	2000	
Cr	52	2	He	48.851	48.851	1.82	559430	0.01	2000	
Fe	56	2	He	5078.390	5078.390	0.94	53946448	0.01	200000	
Se	78	2	He	50.663	50.663	2.69	8043	0.63	2000	
As	75	2	He	49.619	49.619	2.10	87519	0.06	2000	
Ca	44	2	He	20945.361	20945.361	1.91	1356636	1.54	200000	
Na	23	2	He	180762.748	180762.748	1.68	317168955	0.06	200000	>LDR
Mg	24	2	He	13307.414	13307.414	1.78	14320306	0.09	200000	
K	39	2	He	5970.612	5970.612	1.77	7502182	0.08	200000	
Mn	55	2	He	240.242	240.242	0.79	2061454	0.01	2000	
Co	59	2	He	48.786	48.786	0.82	844387	0.01	2000	
Ni	60	2	He	50.523	50.523	0.94	224557	0.02	2000	
Cu	63	2	He	48.898	48.898	1.39	584305	0.01	2000	
Zn	66	2	He	58.399	58.399	2.55	129426	0.05	2000	
Al	27	2	He	109.732	109.732	2.79	74155	0.15	2000	
B	11	1	No Gas	449.441	449.441	1.59	1420119	0.03	2000	
Al	27	1	No Gas	106.533	106.533	1.34	2603719	0.00	2000	
Si	28	1	No Gas	23372.296	23372.296	0.96	270276196	0.01	2000	>LDR
Ag	107	1	No Gas	47.647	47.647	1.99	1528891	0.00	2000	
Cd	111	1	No Gas	48.432	48.432	2.24	310034	0.02	2000	
Sr	88	1	No Gas	330.254	330.254	2.03	20935986	0.00	2000	
Mo	95	1	No Gas	48.105	48.105	2.34	586309	0.01	2000	
Sn	118	1	No Gas	85.647	85.647	1.68	1801595	0.00	2000	
Sb	121	1	No Gas	50.433	50.433	1.15	1409941	0.00	2000	
Ba	137	1	No Gas	243.755	243.755	1.25	2596221	0.01	2000	
Tl	205	1	No Gas	42.492	42.492	2.57	3073187	0.00	2000	
Tl	203	1	No Gas	42.058	42.058	2.51	1238754	0.00	2000	
Pb	208	1	No Gas	48.288	48.288	2.32	4778825	0.00	2000	
U	238	1	No Gas	89.152	89.152	2.07	9252264	0.00	2000	
Ca	43	2	He	20914.338	20914.338	2.79	79453	26.32	200000	
Sb	121	2	He	49.766	49.766	1.33	621815	0.01	2000	
Ti	47	2	He	136.755	136.755	0.78	51375	0.27	2000	
Cu	63	1	No Gas	49.744	49.744	2.55	1127204	0.00	2000	
Ca	44	1	No Gas	20325.472	20325.472	1.62	18282326	0.11	200000	
Zn	66	1	No Gas	57.188	57.188	2.62	356306	0.02	2000	
Se	82	1	No Gas	49.004	49.004	1.54	18937	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1405331	0.77	1676119	83.84	70	120	
Ge	72	2	He	1134485	0.52	1163381	97.52	70	120	
Ge	72	1	No Gas	3881738	0.63	4078799	95.17	70	120	
In	115	1	No Gas	4944187	0.79	5144583	96.10	70	120	
Bi	209	1	No Gas	4876363	1.64	4944446	98.62	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:01:53-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	14.525	14.525	1.41	373909	0.00	2000	
Be	9	1	No Gas	92.602	92.602	2.08	484196	0.02	2000	
V	51	2	He	93.180	93.180	3.64	871269	0.01	2000	
Cr	52	2	He	92.457	92.457	3.14	989212	0.01	2000	
Fe	56	2	He	9521.782	9521.782	2.39	95500315	0.01	200000	
Se	78	2	He	93.833	93.833	0.76	13947	0.67	2000	
As	75	2	He	94.347	94.347	1.66	156861	0.06	2000	
Ca	44	2	He	24060.948	24060.948	2.94	1471542	1.64	200000	
Na	23	2	He	176156.061	176156.061	3.06	291886402	0.06	200000	
Mg	24	2	He	17225.310	17225.310	2.37	17503736	0.10	200000	
K	39	2	He	10317.894	10317.894	2.47	12158919	0.08	200000	
Mn	55	2	He	273.881	273.881	2.52	2219167	0.01	2000	
Co	59	2	He	92.979	92.979	1.50	1519013	0.01	2000	
Ni	60	2	He	93.410	93.410	1.51	391729	0.02	2000	
Cu	63	2	He	92.497	92.497	2.05	1043135	0.01	2000	
Zn	66	2	He	102.781	102.781	1.78	214436	0.05	2000	
Al	27	2	He	101.351	101.351	2.87	64802	0.16	2000	
B	11	1	No Gas	16.404	16.404	2.03	61410	0.03	2000	
Al	27	1	No Gas	99.747	99.747	1.91	2394994	0.00	2000	
Si	28	1	No Gas	22092.399	22092.399	2.77	250591936	0.01	2000	>LDR
Ag	107	1	No Gas	94.780	94.780	1.87	2983678	0.00	2000	
Cd	111	1	No Gas	92.977	92.977	1.34	584121	0.02	2000	
Sr	88	1	No Gas	232.845	232.845	2.23	14487509	0.00	2000	
Mo	95	1	No Gas	92.350	92.350	2.19	1104496	0.01	2000	
Sn	118	1	No Gas	0.398	0.398	6.37	14298	0.00	2000	
Sb	121	1	No Gas	95.812	95.812	1.89	2626741	0.00	2000	
Ba	137	1	No Gas	282.325	282.325	1.66	2950893	0.01	2000	
Tl	205	1	No Gas	93.035	93.035	2.36	6672509	0.00	2000	
Tl	203	1	No Gas	93.159	93.159	2.20	2720976	0.00	2000	
Pb	208	1	No Gas	93.215	93.215	1.49	9148190	0.00	2000	
U	238	1	No Gas	0.606	0.606	1.96	66107	0.00	2000	
Ca	43	2	He	23574.369	23574.369	4.21	84566	27.88	200000	
Sb	121	2	He	93.988	93.988	3.92	1108797	0.01	2000	
Ti	47	2	He	92.768	92.768	3.62	32916	0.28	2000	
Cu	63	1	No Gas	94.499	94.499	2.99	2094425	0.00	2000	
Ca	44	1	No Gas	24169.245	24169.245	2.95	21318319	0.11	200000	
Zn	66	1	No Gas	101.146	101.146	2.35	616115	0.02	2000	
Se	82	1	No Gas	93.147	93.147	4.46	34935	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1411394	0.51	1676119	84.21	70	120	
Ge	72	2	He	1071338	0.07	1163381	92.09	70	120	
Ge	72	1	No Gas	3807279	0.12	4078799	93.34	70	120	
In	115	1	No Gas	4851630	0.30	5144583	94.31	70	120	
Bi	209	1	No Gas	4837639	1.68	4944446	97.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	144_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:06:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.552	2.409	1954299	3.33	100	97.6	90	110	
Be	9	1	No Gas	97.275	1.527	479417	2.51	100	97.3	90	110	
V	51	2	He	96.083	1.787	872205	2.10	100	96.1	90	110	
Cr	52	2	He	96.516	1.709	1002089	1.73	100	96.5	90	110	
Fe	56	2	He	9787.536	1.586	95320909	2.50	10000	97.9	90	110	
Se	78	2	He	97.324	0.354	14041	1.66	100	97.3	90	110	
As	75	2	He	96.526	0.334	155815	1.26	100	96.5	90	110	
Ca	44	2	He	9436.495	0.476	560879	1.59	10000	94.4	90	110	
Na	23	2	He	9703.901	1.691	15886004	2.79	10000	97.0	90	110	
Mg	24	2	He	9724.745	1.784	9596472	2.93	10000	97.2	90	110	
K	39	2	He	9702.682	0.797	11108881	1.80	10000	97.0	90	110	
Mn	55	2	He	95.820	1.253	754331	1.73	100	95.8	90	110	
Co	59	2	He	98.328	1.418	1559730	2.04	100	98.3	90	110	
Ni	60	2	He	98.209	0.927	399861	1.33	100	98.2	90	110	
Cu	63	2	He	97.409	0.666	1066673	2.05	100	97.4	90	110	
Zn	66	2	He	98.450	1.176	199495	2.56	100	98.5	90	110	
Al	27	2	He	97.872	0.801	60821	2.26	100	97.9	90	110	
B	11	1	No Gas	491.582	0.617	1469668	1.49	500	98.3	90	110	
Al	27	1	No Gas	95.008	2.391	2184514	2.32	100	95.0	90	110	
Si	28	1	No Gas	480.285	2.398	5549526	2.20	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.527	2.271	2980253	1.67	100	97.5	90	110	
Cd	111	1	No Gas	96.019	1.816	585588	1.13	100	96.0	90	110	
Sr	88	1	No Gas	96.155	2.403	5809309	1.73	100	96.2	90	110	
Mo	95	1	No Gas	95.259	1.771	1105968	1.27	100	95.3	90	110	
Sn	118	1	No Gas	97.674	2.273	1956483	1.68	100	97.7	90	110	
Sb	121	1	No Gas	99.447	1.376	2607493	1.32	100	99.4	90	110	
Ba	137	1	No Gas	96.245	1.887	976991	1.34	100	96.2	90	110	
Tl	205	1	No Gas	96.511	1.564	6932289	1.88	100	96.5	90	110	
Tl	203	1	No Gas	96.436	1.376	2820946	1.66	100	96.4	90	110	
Pb	208	1	No Gas	96.434	1.288	9477230	1.55	100	96.4	90	110	
U	238	1	No Gas	96.828	2.417	9984069	2.68	100	96.8	90	110	
Ca	43	2	He	9496.983	0.899	33100	0.78	10000	95.0	90	110	
Sb	121	2	He	96.741	1.565	1108268	2.77	100	96.7	90	110	
Ti	47	2	He	97.289	1.854	33517	2.35	100	97.3	90	110	
Cu	63	1	No Gas	98.035	1.885	2077838	1.87	100	98.0	90	110	
Se	82	1	No Gas	93.104	4.526	33398	4.60	100	93.1	90	110	
Zr	90	1	No Gas	93.723	2.274	3537909	1.61	100	93.7	90	110	
Zr	90	2	He	94.723	1.871	1404681	2.67	100	94.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1330344	1.20	1676119	79.37	70	120	
Ge	72	2	He	1040242	1.55	1163381	89.42	70	120	
Ge	72	1	No Gas	3641278	0.28	4078799	89.27	70	120	
In	115	1	No Gas	4710168	0.70	5144583	91.56	70	120	
Bi	209	1	No Gas	4843888	0.36	4944446	97.97	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	145_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:09:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.068	43.2	77946	0.7	0.5	
Be	9	1	No Gas	0.017	39.1	280	12.5	0.5	
V	51	2	He	-0.048	-16.6	3013	2.5	2.5	
Cr	52	2	He	-0.466	-10.9	6975	7.9	2.5	
Fe	56	2	He	0.844	9.0	27093	2.1	100	
Se	78	2	He	0.160	86.7	163	12.0	2	
As	75	2	He	0.004	228.1	322	4.7	2.5	
Ca	44	2	He	4.017	32.5	1083	6.9	100	
Na	23	2	He	-56.582	-1.6	201152	0.7	100	
Mg	24	2	He	0.126	13.0	943	2.4	100	
K	39	2	He	-1.880	-31.4	111832	1.3	100	
Mn	55	2	He	0.183	4.4	2234	3.2	2.5	
Co	59	2	He	0.002	485.2	763	18.6	2.5	
Ni	60	2	He	0.076	19.7	703	8.7	2.5	
Cu	63	2	He	0.049	9.9	1233	4.9	2	
Zn	66	2	He	0.680	11.0	2264	7.5	2.5	
Al	27	2	He	-0.028	-6146.2	1622	65.9	5	
B	11	1	No Gas	4.355	7.2	23403	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.928	-4.1	37902	2.1	5	
Si	28	1	No Gas	1.241	3.4	368584	0.3	10	
Ag	107	1	No Gas	-0.014	-5.3	613	5.0	2.5	
Cd	111	1	No Gas	-0.002	-128.7	-12	-148.0	1	
Sr	88	1	No Gas	-0.028	-2.0	1483	3.5	2.5	
Mo	95	1	No Gas	0.059	22.7	883	17.0	2.5	
Sn	118	1	No Gas	0.068	109.9	7476	20.3	5	
Sb	121	1	No Gas	0.197	15.5	5831	13.7	2.5	
Ba	137	1	No Gas	0.013	181.9	860	28.6	2.5	
Tl	205	1	No Gas	0.015	36.9	3814	10.2	1	
Tl	203	1	No Gas	0.016	25.1	1533	7.4	1	
Pb	208	1	No Gas	0.008	21.1	6278	2.5	2.5	
U	238	1	No Gas	0.007	24.1	4591	3.6	2.5	
Ca	43	2	He	9.466	118.8	73	55.1	100	
Sb	121	2	He	0.160	12.2	2094	11.5	2.5	
Ti	47	2	He	0.013	212.0	20	50.0	2.5	
Cu	63	1	No Gas	-0.151	-7.2	3140	7.3	2.5	
Se	82	1	No Gas	-0.263	-41.8	307	13.2	2	
Zr	90	1	No Gas	0.182	19.3	8253	15.3	2.5	
Zr	90	2	He	0.113	5.2	3350	2.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1409852	0.65	1676119	84.11	70	120	
Ge	72	2	He	1062497	0.69	1163381	91.33	70	120	
Ge	72	1	No Gas	3726355	0.38	4078799	91.36	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4831228	1.15	5144583	93.91	70	120	
Bi	209	1	No Gas	4922551	0.50	4944446	99.56	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:33:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	28.706	28.706	2.34	871053	0.00	2000	
Be	9	1	No Gas	39.824	39.824	1.72	273241	0.01	2000	
V	51	2	He	45.468	45.468	1.07	482408	0.01	2000	
Cr	52	2	He	45.632	45.632	1.11	558492	0.01	2000	
Fe	56	2	He	4748.628	4748.628	0.94	53826288	0.01	200000	
Se	78	2	He	46.957	46.957	1.45	7966	0.59	2000	
As	75	2	He	46.047	46.047	0.82	86684	0.05	2000	
Ca	44	2	He	4615.138	4615.138	0.65	319686	1.44	200000	
Na	23	2	He	4825.776	4825.776	1.78	9361539	0.05	200000	
Mg	24	2	He	4714.874	4714.874	1.72	5414444	0.09	200000	
K	39	2	He	4698.212	4698.212	1.86	6326620	0.07	200000	
Mn	55	2	He	46.176	46.176	1.28	423490	0.01	2000	
Co	59	2	He	46.486	46.486	0.91	858538	0.01	2000	
Ni	60	2	He	47.058	47.058	2.26	223210	0.02	2000	
Cu	63	2	He	46.458	46.458	1.23	592399	0.01	2000	
Zn	66	2	He	47.400	47.400	1.53	112266	0.04	2000	
Al	27	2	He	64.303	64.303	1.57	47139	0.14	2000	
B	11	1	No Gas	292.657	292.657	1.38	1222622	0.02	2000	
Al	27	1	No Gas	64.566	64.566	1.89	1758851	0.00	2000	
Si	28	1	No Gas	374.589	374.589	1.93	5154045	0.01	2000	
Ag	107	1	No Gas	47.123	47.123	2.53	1684456	0.00	2000	
Cd	111	1	No Gas	45.549	45.549	1.55	324818	0.01	2000	
Sr	88	1	No Gas	65.255	65.255	2.35	4611268	0.00	2000	
Mo	95	1	No Gas	44.874	44.874	2.07	609302	0.01	2000	
Sn	118	1	No Gas	65.384	65.384	2.19	1533771	0.00	2000	
Sb	121	1	No Gas	47.266	47.266	1.70	1450566	0.00	2000	
Ba	137	1	No Gas	45.579	45.579	2.43	541465	0.01	2000	
Tl	205	1	No Gas	44.520	44.520	1.46	3701567	0.00	2000	
Tl	203	1	No Gas	44.038	44.038	1.65	1491099	0.00	2000	
Pb	208	1	No Gas	46.509	46.509	1.43	5291608	0.00	2000	
U	238	1	No Gas	30.684	30.684	1.72	3663554	0.00	2000	
Ca	43	2	He	4644.901	4644.901	3.89	18866	24.62	200000	
Sb	121	2	He	46.783	46.783	0.82	623752	0.01	2000	
Ti	47	2	He	80.164	80.164	0.74	32138	0.25	2000	
Cu	63	1	No Gas	47.170	47.170	1.14	1173648	0.00	2000	
Ca	44	1	No Gas	4747.857	4747.857	1.97	4709726	0.10	200000	
Zn	66	1	No Gas	46.517	46.517	2.17	318691	0.01	2000	
Se	82	1	No Gas	46.152	46.152	4.75	19608	0.24	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	1850979	1.18	1676119	110.43	70	120	
Ge	72	2	He	1210438	1.36	1163381	104.04	70	120	
Ge	72	1	No Gas	4260550	0.93	4078799	104.46	70	120	

Sample Report

In	115	1	No Gas	5507053	0.40	5144583	107.05	70	120	
Bi	209	1	No Gas	5604463	0.22	4944446	113.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	157_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:38:43-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.454	10.5	99199	0.9	0.5	
Be	9	1	No Gas	0.005	84.8	252	9.8	0.5	
V	51	2	He	-0.211	-3.6	1720	4.5	2.5	
Cr	52	2	He	-0.494	-5.4	7596	3.2	2.5	
Fe	56	2	He	0.809	6.2	30417	2.9	100	
Se	78	2	He	-0.039	-95.2	153	3.3	2	
As	75	2	He	-0.030	-35.3	303	6.6	2.5	
Ca	44	2	He	2.475	80.9	1127	13.4	100	
Na	23	2	He	5.376	36.8	344386	1.7	100	
Mg	24	2	He	0.305	45.9	1277	11.8	100	
K	39	2	He	-10.780	-17.3	115430	1.8	100	
Mn	55	2	He	0.161	4.9	2340	3.7	2.5	
Co	59	2	He	0.002	310.0	867	10.9	2.5	
Ni	60	2	He	0.028	73.1	573	18.2	2.5	
Cu	63	2	He	0.043	15.6	1337	5.5	2	
Zn	66	2	He	0.679	15.5	2570	9.7	2.5	
Al	27	2	He	-0.892	-13.5	1240	6.5	5	
B	11	1	No Gas	3.183	13.6	22793	7.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.977	-7.0	41549	4.3	5	
Si	28	1	No Gas	-1.910	-9.3	376744	0.3	10	
Ag	107	1	No Gas	-0.019	-13.5	527	17.1	2.5	
Cd	111	1	No Gas	-0.002	-145.3	-12	-170.1	1	
Sr	88	1	No Gas	-0.026	-3.6	1860	3.8	2.5	
Mo	95	1	No Gas	0.054	16.1	930	12.7	2.5	
Sn	118	1	No Gas	0.016	92.8	7255	4.9	5	
Sb	121	1	No Gas	0.189	16.8	6342	15.2	2.5	
Ba	137	1	No Gas	0.022	82.1	1070	19.2	2.5	
Tl	205	1	No Gas	0.013	49.0	4217	13.1	1	
Tl	203	1	No Gas	0.017	12.4	1797	4.3	1	
Pb	208	1	No Gas	0.002	77.2	6511	3.0	2.5	
U	238	1	No Gas	0.006	47.4	5104	7.0	2.5	
Ca	43	2	He	8.671	103.4	80	45.1	100	
Sb	121	2	He	0.146	2.5	2184	3.2	2.5	
Ti	47	2	He	-0.035	-41.6	3	173.2	2.5	
Cu	63	1	No Gas	-0.166	-4.2	3174	5.1	2.5	
Se	82	1	No Gas	-0.270	-45.5	343	14.9	2	
Zr	90	1	No Gas	0.178	22.5	9180	19.2	2.5	
Zr	90	2	He	0.119	9.3	3914	6.0	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	1629525	0.85	1676119	97.22	70	120	
Ge	72	2	He	1208116	1.09	1163381	103.85	70	120	
Ge	72	1	No Gas	4207683	0.27	4078799	103.16	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5458599	0.26	5144583	106.10	70	120	
Bi	209	1	No Gas	5634105	0.33	4944446	113.95	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	160_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:52:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	94.727	2.471	2053639	2.50	100	94.7	90	110	
Be	9	1	No Gas	100.967	2.094	537938	2.25	100	101.0	90	110	
V	51	2	He	98.163	1.264	988621	1.89	100	98.2	90	110	
Cr	52	2	He	98.420	1.459	1133569	1.93	100	98.4	90	110	
Fe	56	2	He	9429.504	1.052	101884568	1.58	10000	94.3	90	110	
Se	78	2	He	100.034	0.262	16008	1.40	100	100.0	90	110	
As	75	2	He	97.384	2.096	174439	3.18	100	97.4	90	110	
Ca	44	2	He	9003.431	0.772	593793	1.76	10000	90.0	90	110	
Na	23	2	He	9134.974	1.429	16609433	1.95	10000	91.3	90	110	
Mg	24	2	He	9246.090	1.872	10122249	2.31	10000	92.5	90	110	
K	39	2	He	9209.335	1.178	11704568	1.61	10000	92.1	90	110	
Mn	55	2	He	97.305	1.013	849924	1.77	100	97.3	90	110	
Co	59	2	He	100.127	0.864	1762218	1.79	100	100.1	90	110	
Ni	60	2	He	99.279	0.536	448484	1.11	100	99.3	90	110	
Cu	63	2	He	99.725	1.027	1211579	1.99	100	99.7	90	110	
Zn	66	2	He	99.110	1.845	222813	2.76	100	99.1	90	110	
Al	27	2	He	95.537	1.678	65914	2.59	100	95.5	90	110	
B	11	1	No Gas	464.198	1.256	1500924	1.43	500	92.8	90	110	
Al	27	1	No Gas	98.879	1.732	2468444	1.76	100	98.9	90	110	
Si	28	1	No Gas	481.488	1.886	6045715	1.78	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.494	2.677	3367670	1.56	100	100.5	90	110	
Cd	111	1	No Gas	101.219	2.662	676956	1.64	100	101.2	90	110	
Sr	88	1	No Gas	99.870	2.932	6616722	1.92	100	99.9	90	110	
Mo	95	1	No Gas	97.098	2.193	1236270	1.14	100	97.1	90	110	
Sn	118	1	No Gas	102.844	2.160	2258925	1.32	100	102.8	90	110	
Sb	121	1	No Gas	109.601	1.424	3123276	1.49	100	109.6	90	110	
Ba	137	1	No Gas	102.548	2.289	1141538	1.19	100	102.5	90	110	
Tl	205	1	No Gas	106.156	1.934	8452439	1.09	100	106.2	90	110	
Tl	203	1	No Gas	106.435	1.492	3451367	0.66	100	106.4	90	110	
Pb	208	1	No Gas	102.627	1.415	11180800	0.76	100	102.6	90	110	
U	238	1	No Gas	96.692	1.190	11052592	0.43	100	96.7	90	110	
Ca	43	2	He	9016.196	1.585	34867	1.39	10000	90.2	90	110	
Sb	121	2	He	103.951	2.529	1321132	2.94	100	104.0	90	110	
Ti	47	2	He	95.061	1.926	36341	3.02	100	95.1	90	110	
Cu	63	1	No Gas	102.840	1.471	2368685	1.61	100	102.8	90	110	
Se	82	1	No Gas	103.627	3.459	40354	3.61	100	103.6	90	110	
Zr	90	1	No Gas	51.966	3.069	2151762	1.98	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.682	2.189	851150	2.82	100	51.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438259	0.29	1676119	85.81	70	120	
Ge	72	2	He	1154127	1.15	1163381	99.20	70	120	
Ge	72	1	No Gas	3957525	0.30	4078799	97.03	70	120	
In	115	1	No Gas	5165893	1.10	5144583	100.41	70	120	
Bi	209	1	No Gas	5370438	0.86	4944446	108.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	161_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:54:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.610	1.029	2041240	1.54	100	95.6	90	110	
Be	9	1	No Gas	102.485	1.168	537906	1.73	100	102.5	90	110	
V	51	2	He	100.231	2.105	1008073	2.45	100	100.2	90	110	
Cr	52	2	He	99.401	1.781	1143273	2.02	100	99.4	90	110	
Fe	56	2	He	9487.578	1.447	102378175	1.53	10000	94.9	90	110	
Se	78	2	He	100.827	1.131	16114	1.83	100	100.8	90	110	
As	75	2	He	99.027	1.910	177131	2.46	100	99.0	90	110	
Ca	44	2	He	9248.044	2.846	609103	3.06	10000	92.5	90	110	
Na	23	2	He	9343.703	2.234	16957993	1.67	10000	93.4	90	110	
Mg	24	2	He	9480.477	2.534	10365035	2.52	10000	94.8	90	110	
K	39	2	He	9539.387	2.440	12103944	2.51	10000	95.4	90	110	
Mn	55	2	He	98.323	1.005	857667	1.13	100	98.3	90	110	
Co	59	2	He	101.307	1.434	1780573	1.38	100	101.3	90	110	
Ni	60	2	He	100.589	1.764	453808	1.75	100	100.6	90	110	
Cu	63	2	He	101.821	2.086	1235372	2.30	100	101.8	90	110	
Zn	66	2	He	101.613	0.835	228098	1.08	100	101.6	90	110	
Al	27	2	He	98.933	3.430	68105	3.72	100	98.9	90	110	
B	11	1	No Gas	474.009	0.830	1509610	1.12	500	94.8	90	110	
Al	27	1	No Gas	98.338	1.682	2466195	1.61	100	98.3	90	110	
Si	28	1	No Gas	477.698	2.043	6027787	1.88	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.702	1.747	3408189	1.15	100	102.7	90	110	
Cd	111	1	No Gas	103.567	1.708	685919	1.15	100	103.6	90	110	
Sr	88	1	No Gas	101.126	1.525	6634884	0.97	100	101.1	90	110	
Mo	95	1	No Gas	99.077	1.327	1249165	0.76	100	99.1	90	110	
Sn	118	1	No Gas	103.712	2.198	2255601	1.61	100	103.7	90	110	
Sb	121	1	No Gas	108.511	1.834	3105971	1.82	100	108.5	90	110	
Ba	137	1	No Gas	102.938	2.375	1134672	1.78	100	102.9	90	110	
Tl	205	1	No Gas	107.679	0.207	8556904	1.28	100	107.7	90	110	
Tl	203	1	No Gas	106.389	0.368	3443058	1.45	100	106.4	90	110	
Pb	208	1	No Gas	103.679	0.723	11273002	1.69	100	103.7	90	110	
U	238	1	No Gas	97.779	1.169	11155154	2.18	100	97.8	90	110	
Ca	43	2	He	9412.011	3.365	36351	3.41	10000	94.1	90	110	
Sb	121	2	He	106.238	1.856	1348364	1.74	100	106.2	90	110	
Ti	47	2	He	99.646	1.382	38039	1.63	100	99.6	90	110	
Cu	63	1	No Gas	102.521	1.092	2371827	1.04	100	102.5	90	110	
Se	82	1	No Gas	105.180	0.548	41133	0.62	100	105.2	90	110	
Zr	90	1	No Gas	51.952	1.240	2130377	0.82	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.813	2.369	852060	1.83	100	51.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1416842	0.58	1676119	84.53	70	120	
Ge	72	2	He	1152678	1.29	1163381	99.08	70	120	
Ge	72	1	No Gas	3975139	0.12	4078799	97.46	70	120	
In	115	1	No Gas	5115001	0.60	5144583	99.43	70	120	
Bi	209	1	No Gas	5359255	1.09	4944446	108.39	70	120	

Sample Report

Sample Table

Sample Name	HS24060899-03
Data File Name	168SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:11:46-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	9.080	9.080	0.86	244804	0.00	2000	
Be	9	1	No Gas	0.096	0.096	1.28	647	0.01	2000	
V	51	2	He	4.590	4.590	1.96	44445	0.01	2000	
Cr	52	2	He	211.173	211.173	1.20	2157181	0.01	2000	
Fe	56	2	He	13105.929	13105.929	1.93	126359728	0.01	200000	
Se	78	2	He	0.920	0.920	17.80	266	0.35	2000	
As	75	2	He	0.666	0.666	9.88	1369	0.05	2000	
Ca	44	2	He	35948.822	35948.822	1.37	2113236	1.70	200000	
Na	23	2	He	31018.425	31018.425	1.54	49645059	0.06	200000	
Mg	24	2	He	6965.849	6965.849	1.80	6805418	0.10	200000	
K	39	2	He	364.087	364.087	1.73	519078	0.07	200000	
Mn	55	2	He	47.284	47.284	1.01	368925	0.01	2000	
Co	59	2	He	5.011	5.011	1.49	79368	0.01	2000	
Ni	60	2	He	558.143	558.143	0.81	2248335	0.02	2000	
Cu	63	2	He	16.172	16.172	1.41	175880	0.01	2000	
Zn	66	2	He	8.639	8.639	1.19	18092	0.05	2000	
Al	27	2	He	148.450	148.450	1.83	90506	0.16	2000	
B	11	1	No Gas	19.597	19.597	0.61	66659	0.03	2000	
Al	27	1	No Gas	145.525	145.525	1.39	3268057	0.00	2000	
Si	28	1	No Gas	23945.391	23945.391	1.23	256039136	0.01	2000	>LDR
Ag	107	1	No Gas	0.004	0.004	54.75	1167	0.00	2000	
Cd	111	1	No Gas	0.090	0.090	22.86	547	0.02	2000	
Sr	88	1	No Gas	305.435	305.435	2.26	18425973	0.00	2000	
Mo	95	1	No Gas	1.569	1.569	0.92	18373	0.01	2000	
Sn	118	1	No Gas	0.288	0.288	12.13	11672	0.00	2000	
Sb	121	1	No Gas	0.184	0.184	3.48	5274	0.00	2000	
Ba	137	1	No Gas	312.935	312.935	0.90	3171654	0.01	2000	
Tl	205	1	No Gas	0.003	0.003	68.05	2934	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	43.46	1253	0.00	2000	
Pb	208	1	No Gas	0.229	0.229	2.99	28306	0.00	2000	
U	238	1	No Gas	0.179	0.179	3.22	22554	0.00	2000	
Ca	43	2	He	34943.704	34943.704	0.40	120484	29.00	200000	
Sb	121	2	He	0.188	0.188	4.79	2340	0.01	2000	
Ti	47	2	He	1.580	1.580	13.10	553	0.29	2000	
Cu	63	1	No Gas	16.046	16.046	1.37	340396	0.00	2000	
Ca	44	1	No Gas	35860.949	35860.949	1.30	29809377	0.12	200000	
Zn	66	1	No Gas	8.274	8.274	1.05	49757	0.02	2000	
Se	82	1	No Gas	0.570	0.570	48.27	587	0.10	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	1316382	0.86	1676119	78.54	70	120	
Ge	72	2	He	1029888	0.86	1163381	88.53	70	120	
Ge	72	1	No Gas	3589359	0.52	4078799	88.00	70	120	

Sample Report

In	115	1	No Gas	4704904	0.69	5144583	91.45	70	120	
Bi	209	1	No Gas	4914607	0.94	4944446	99.40	70	120	

Sample Report

Sample Table

Sample Name	HS24060899-05
Data File Name	169SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:14:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	15.596	15.596	1.65	360891	0.00	2000	
Be	9	1	No Gas	0.033	0.033	46.58	332	0.01	2000	
V	51	2	He	1.806	1.806	1.93	19533	0.01	2000	
Cr	52	2	He	13.120	13.120	3.68	144858	0.01	2000	
Fe	56	2	He	38919.820	38919.820	3.06	375335528	0.01	200000	
Se	78	2	He	0.133	0.133	62.98	155	0.09	2000	
As	75	2	He	4.008	4.008	2.91	6702	0.06	2000	
Ca	44	2	He	17573.395	17573.395	2.19	1033844	1.70	200000	
Na	23	2	He	45795.694	45795.694	2.02	73188174	0.06	200000	
Mg	24	2	He	9870.753	9870.753	1.90	9646589	0.10	200000	
K	39	2	He	2068.516	2068.516	1.43	2432688	0.09	200000	
Mn	55	2	He	777.135	777.135	3.29	6054135	0.01	2000	
Co	59	2	He	0.594	0.594	4.97	10044	0.01	2000	
Ni	60	2	He	8.598	8.598	1.85	35018	0.02	2000	
Cu	63	2	He	1.339	1.339	1.43	15189	0.01	2000	
Zn	66	2	He	7.270	7.270	3.81	15362	0.05	2000	
Al	27	2	He	115.858	115.858	2.62	71012	0.16	2000	
B	11	1	No Gas	30.335	30.335	2.15	96027	0.03	2000	
Al	27	1	No Gas	113.702	113.702	2.33	2548575	0.00	2000	
Si	28	1	No Gas	16278.201	16278.201	2.47	172993377	0.01	2000	>LDR
Ag	107	1	No Gas	0.000	0.000	1444.28	1043	0.00	2000	
Cd	111	1	No Gas	0.315	0.315	7.40	1925	0.02	2000	
Sr	88	1	No Gas	349.146	349.146	2.35	21118122	0.00	2000	
Mo	95	1	No Gas	1.981	1.981	1.87	23210	0.01	2000	
Sn	118	1	No Gas	0.346	0.346	8.20	12866	0.00	2000	
Sb	121	1	No Gas	0.154	0.154	5.21	4471	0.00	2000	
Ba	137	1	No Gas	257.834	257.834	1.71	2620117	0.01	2000	
Tl	205	1	No Gas	-0.002	-0.002	-38.33	2570	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	2057.76	1067	0.00	2000	
Pb	208	1	No Gas	0.519	0.519	3.91	57392	0.00	2000	
U	238	1	No Gas	0.056	0.056	3.56	9704	0.00	2000	
Ca	43	2	He	17471.787	17471.787	3.19	60284	28.98	200000	
Sb	121	2	He	0.149	0.149	7.63	1904	0.01	2000	
Ti	47	2	He	2.254	2.254	11.53	783	0.29	2000	
Cu	63	1	No Gas	1.478	1.478	3.79	36699	0.00	2000	
Ca	44	1	No Gas	17181.560	17181.560	2.29	14198304	0.12	200000	
Zn	66	1	No Gas	6.871	6.871	2.92	41450	0.02	2000	
Se	82	1	No Gas	-0.292	-0.292	-39.60	283	-0.10	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	1286851	0.19	1676119	76.78	70	120	
Ge	72	2	He	1030367	0.49	1163381	88.57	70	120	
Ge	72	1	No Gas	3565431	0.50	4078799	87.41	70	120	

Sample Report

In	115	1	No Gas	4717389	0.77	5144583	91.70	70	120	
Bi	209	1	No Gas	4935667	0.46	4944446	99.82	70	120	

Sample Report

Sample Table

Sample Name	HS24060899-07
Data File Name	170SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:16:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	7.057	7.057	1.53	198492	0.00	2000	
Be	9	1	No Gas	0.002	0.002	66.36	183	0.00	2000	
V	51	2	He	6.494	6.494	2.44	61821	0.01	2000	
Cr	52	2	He	9.890	9.890	2.50	112588	0.01	2000	
Fe	56	2	He	28.587	28.587	2.44	295249	0.01	200000	
Se	78	2	He	1.100	1.100	32.78	293	0.37	2000	
As	75	2	He	0.560	0.560	12.37	1205	0.05	2000	
Ca	44	2	He	38483.060	38483.060	2.83	2274031	1.69	200000	
Na	23	2	He	19729.370	19729.370	1.95	31849583	0.06	200000	
Mg	24	2	He	2761.099	2761.099	2.67	2712283	0.10	200000	
K	39	2	He	1728.753	1728.753	1.74	2061364	0.08	200000	
Mn	55	2	He	3.888	3.888	0.82	31179	0.01	2000	
Co	59	2	He	0.163	0.163	2.44	3284	0.00	2000	
Ni	60	2	He	0.650	0.650	2.27	3010	0.02	2000	
Cu	63	2	He	0.897	0.897	5.95	10451	0.01	2000	
Zn	66	2	He	10.630	10.630	1.34	22188	0.05	2000	
Al	27	2	He	72.655	72.655	3.27	45357	0.16	2000	
B	11	1	No Gas	56.343	56.343	1.18	168174	0.03	2000	
Al	27	1	No Gas	67.597	67.597	1.18	1537138	0.00	2000	
Si	28	1	No Gas	8463.312	8463.312	0.74	90048949	0.01	2000	>LDR
Ag	107	1	No Gas	0.012	0.012	49.42	1397	0.00	2000	
Cd	111	1	No Gas	0.102	0.102	18.79	624	0.02	2000	
Sr	88	1	No Gas	423.006	423.006	0.63	25625830	0.00	2000	
Mo	95	1	No Gas	1.410	1.410	1.65	16587	0.01	2000	
Sn	118	1	No Gas	0.529	0.529	3.68	16551	0.00	2000	
Sb	121	1	No Gas	0.288	0.288	2.31	7903	0.00	2000	
Ba	137	1	No Gas	110.113	110.113	0.86	1121133	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	934.49	2804	0.00	2000	
Tl	203	1	No Gas	0.005	0.005	22.22	1233	0.00	2000	
Pb	208	1	No Gas	0.081	0.081	5.72	13810	0.00	2000	
U	238	1	No Gas	0.653	0.653	1.19	73575	0.00	2000	
Ca	43	2	He	38071.799	38071.799	3.13	131981	28.85	200000	
Sb	121	2	He	0.296	0.296	5.12	3581	0.01	2000	
Ti	47	2	He	0.638	0.638	38.52	233	0.27	2000	
Cu	63	1	No Gas	0.805	0.805	3.84	22759	0.00	2000	
Ca	44	1	No Gas	36700.160	36700.160	1.12	30282162	0.12	200000	
Zn	66	1	No Gas	9.889	9.889	1.64	58558	0.02	2000	
Se	82	1	No Gas	0.766	0.766	20.38	650	0.12	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	1267352	0.73	1676119	75.61	70	120	
Ge	72	2	He	1035515	1.35	1163381	89.01	70	120	
Ge	72	1	No Gas	3562970	0.21	4078799	87.35	70	120	

Sample Report

In	115	1	No Gas	4724370	0.56	5144583	91.83	70	120	
Bi	209	1	No Gas	5015233	1.16	4944446	101.43	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	172_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:22:50-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.580	1.895	1924077	2.36	100	95.6	90	110	
Be	9	1	No Gas	102.052	1.189	505031	1.80	100	102.1	90	110	
V	51	2	He	100.677	2.254	950090	2.82	100	100.7	90	110	
Cr	52	2	He	101.574	2.157	1095938	2.63	100	101.6	90	110	
Fe	56	2	He	9627.994	2.805	97487762	3.24	10000	96.3	90	110	
Se	78	2	He	101.565	0.972	15229	1.72	100	101.6	90	110	
As	75	2	He	99.941	1.207	167718	1.41	100	99.9	90	110	
Ca	44	2	He	9215.957	1.478	569548	2.16	10000	92.2	90	110	
Na	23	2	He	9295.562	0.907	15832876	1.66	10000	93.0	90	110	
Mg	24	2	He	9426.381	0.900	9670489	1.75	10000	94.3	90	110	
K	39	2	He	9415.508	0.754	11211536	1.70	10000	94.2	90	110	
Mn	55	2	He	99.289	2.112	812660	2.50	100	99.3	90	110	
Co	59	2	He	102.382	2.791	1688418	2.90	100	102.4	90	110	
Ni	60	2	He	101.173	1.921	428280	2.16	100	101.2	90	110	
Cu	63	2	He	102.639	2.240	1168457	2.62	100	102.6	90	110	
Zn	66	2	He	100.921	2.465	212588	3.06	100	100.9	90	110	
Al	27	2	He	98.265	1.868	63487	2.99	100	98.3	90	110	
B	11	1	No Gas	465.428	1.100	1397790	1.59	500	93.1	90	110	
Al	27	1	No Gas	97.662	1.475	2324431	1.75	100	97.7	90	110	
Si	28	1	No Gas	473.760	1.343	5675407	1.55	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.055	1.476	3255687	1.72	100	102.1	90	110	
Cd	111	1	No Gas	102.446	1.922	652250	2.16	100	102.4	90	110	
Sr	88	1	No Gas	99.779	1.823	6293305	2.08	100	99.8	90	110	
Mo	95	1	No Gas	97.436	2.300	1180965	2.57	100	97.4	90	110	
Sn	118	1	No Gas	103.598	0.571	2165979	0.83	100	103.6	90	110	
Sb	121	1	No Gas	109.473	1.267	2973290	1.58	100	109.5	90	110	
Ba	137	1	No Gas	103.012	1.275	1091588	1.51	100	103.0	90	110	
Tl	205	1	No Gas	105.893	1.081	8195735	1.52	100	105.9	90	110	
Tl	203	1	No Gas	105.641	1.615	3329763	2.00	100	105.6	90	110	
Pb	208	1	No Gas	102.433	0.464	10847005	0.85	100	102.4	90	110	
U	238	1	No Gas	96.994	1.002	10776499	1.36	100	97.0	90	110	
Ca	43	2	He	9326.807	1.915	33805	3.05	10000	93.3	90	110	
Sb	121	2	He	107.828	1.262	1284226	2.19	100	107.8	90	110	
Ti	47	2	He	100.082	2.807	35847	2.85	100	100.1	90	110	
Cu	63	1	No Gas	101.873	0.892	2236381	1.26	100	101.9	90	110	
Se	82	1	No Gas	102.053	3.321	37883	3.66	100	102.1	90	110	
Zr	90	1	No Gas	50.844	1.598	2004268	1.86	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.937	1.894	801568	2.90	100	51.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1335890	0.61	1676119	79.70	70	120	
Ge	72	2	He	1081518	1.18	1163381	92.96	70	120	
Ge	72	1	No Gas	3771797	0.38	4078799	92.47	70	120	
In	115	1	No Gas	4916677	0.27	5144583	95.57	70	120	
Bi	209	1	No Gas	5219533	0.48	4944446	105.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	173_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:25:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.210	15.7	81183	0.9	0.5	
Be	9	1	No Gas	0.098	33.3	708	24.0	0.5	
V	51	2	He	-0.160	-3.5	2062	2.9	2.5	
Cr	52	2	He	-0.456	-9.6	7372	6.1	2.5	
Fe	56	2	He	4.450	13.4	65575	9.7	100	
Se	78	2	He	0.089	78.2	159	6.2	2	
As	75	2	He	0.015	205.8	354	14.6	2.5	
Ca	44	2	He	5.360	47.8	1213	13.6	100	
Na	23	2	He	-57.326	-2.3	208188	1.3	100	
Mg	24	2	He	3.688	18.3	4721	15.1	100	
K	39	2	He	-2.227	-64.3	116029	1.9	100	
Mn	55	2	He	0.213	6.1	2577	4.8	2.5	
Co	59	2	He	0.037	22.6	1390	10.4	2.5	
Ni	60	2	He	0.102	18.8	843	10.4	2.5	
Cu	63	2	He	0.071	10.4	1543	5.5	2	
Zn	66	2	He	0.766	6.4	2540	4.6	2.5	
Al	27	2	He	-0.807	-12.4	1190	5.0	5	
B	11	1	No Gas	3.007	18.4	19240	9.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.863	-5.5	40596	2.7	5	
Si	28	1	No Gas	0.423	95.6	370315	0.5	10	
Ag	107	1	No Gas	0.053	51.6	2840	31.0	2.5	
Cd	111	1	No Gas	0.094	32.4	616	31.7	1	
Sr	88	1	No Gas	0.063	50.8	7419	27.2	2.5	
Mo	95	1	No Gas	0.146	25.8	2000	22.9	2.5	
Sn	118	1	No Gas	0.091	22.0	8273	4.6	5	
Sb	121	1	No Gas	0.097	28.5	3230	23.8	2.5	
Ba	137	1	No Gas	0.095	36.1	1777	20.3	2.5	
Tl	205	1	No Gas	0.113	34.1	11970	27.3	1	
Tl	203	1	No Gas	0.111	35.9	4761	28.9	1	
Pb	208	1	No Gas	0.096	36.7	16471	25.2	2.5	
U	238	1	No Gas	0.087	39.5	14176	29.6	2.5	
Ca	43	2	He	5.972	93.2	63	32.9	100	
Sb	121	2	He	0.057	12.7	917	9.8	2.5	
Ti	47	2	He	0.011	244.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.086	-47.4	4671	19.1	2.5	
Se	82	1	No Gas	-0.135	-166.4	363	22.2	2	
Zr	90	1	No Gas	0.077	31.9	4367	22.1	2.5	
Zr	90	2	He	0.037	37.5	2290	10.1	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	1415964	0.17	1676119	84.48	70	120	
Ge	72	2	He	1106349	0.55	1163381	95.10	70	120	
Ge	72	1	No Gas	3838591	0.89	4078799	94.11	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5033074	0.60	5144583	97.83	70	120	
Bi	209	1	No Gas	5363685	1.73	4944446	108.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	176SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:41:21-05:00
Sample Type	Sample
Dilution	10
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	1.714	17.144	4.27	113877	0.00	2000	
Be	9	1	No Gas	0.004	0.040	85.66	218	0.00	2000	
V	51	2	He	0.004	0.045	218.61	3696	0.00	2000	
Cr	52	2	He	-0.345	-3.454	-3.51	8700	0.00	2000	
Fe	56	2	He	22.531	225.305	1.47	256254	0.01	200000	
Se	78	2	He	0.122	1.223	138.69	167	0.07	2000	
As	75	2	He	0.014	0.136	104.18	357	0.00	2000	
Ca	44	2	He	1590.695	15906.950	2.58	102670	1.55	200000	
Na	23	2	He	18192.815	181928.152	1.28	31835337	0.06	200000	
Mg	24	2	He	864.203	8642.026	1.50	920125	0.09	200000	
K	39	2	He	106.483	1064.826	0.85	250443	0.04	200000	
Mn	55	2	He	20.642	206.421	1.69	175835	0.01	2000	
Co	59	2	He	0.096	0.957	11.61	2410	0.00	2000	
Ni	60	2	He	0.418	4.178	7.71	2240	0.02	2000	
Cu	63	2	He	0.133	1.326	10.43	2294	0.01	2000	
Zn	66	2	He	6.547	65.466	1.58	15149	0.04	2000	
Al	27	2	He	2.315	23.154	18.46	3244	0.07	2000	
B	11	1	No Gas	1.251	12.511	7.61	13910	0.01	2000	
Al	27	1	No Gas	2.563	25.632	11.55	123924	0.00	2000	
Si	28	1	No Gas	2361.573	23615.726	2.26	27894256	0.01	2000	>LDR
Ag	107	1	No Gas	-0.007	-0.075	-7.87	870	0.00	2000	
Cd	111	1	No Gas	0.019	0.191	43.40	128	0.01	2000	
Sr	88	1	No Gas	24.999	249.995	2.22	1631385	0.00	2000	
Mo	95	1	No Gas	0.019	0.186	32.36	420	0.00	2000	
Sn	118	1	No Gas	0.229	2.293	8.80	11338	0.00	2000	
Sb	121	1	No Gas	0.024	0.240	19.52	1250	0.00	2000	
Ba	137	1	No Gas	20.170	201.698	0.64	221401	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-2182.88	2940	0.00	2000	
Tl	203	1	No Gas	-0.002	-0.022	-109.08	1073	0.00	2000	
Pb	208	1	No Gas	0.007	0.068	15.25	6627	0.00	2000	
U	238	1	No Gas	0.061	0.607	4.63	11012	0.00	2000	
Ca	43	2	He	1648.108	16481.078	3.58	6228	26.46	200000	
Sb	121	2	He	0.016	0.161	39.95	427	0.00	2000	
Ti	47	2	He	0.145	1.451	31.82	70	0.21	2000	
Cu	63	1	No Gas	0.021	0.214	55.26	7209	0.00	2000	
Ca	44	1	No Gas	1618.164	16181.638	1.83	1492926	0.11	200000	
Zn	66	1	No Gas	6.228	62.275	1.58	41526	0.01	2000	
Se	82	1	No Gas	-0.016	-0.157	-1126.35	417	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438714	0.39	1676119	85.84	70	120	
Ge	72	2	He	1121471	0.38	1163381	96.40	70	120	
Ge	72	1	No Gas	3917207	0.34	4078799	96.04	70	120	

Sample Report

In	115	1	No Gas	5079107	0.10	5144583	98.73	70	120	
Bi	209	1	No Gas	5322337	0.52	4944446	107.64	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	177SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:43:45-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	53.144	106.289	2.02	1106292	0.00	2000	
Be	9	1	No Gas	24.224	48.449	2.76	120482	0.02	2000	
V	51	2	He	24.028	48.056	1.58	230324	0.01	2000	
Cr	52	2	He	24.165	48.331	2.09	270983	0.01	2000	
Fe	56	2	He	2541.617	5083.235	1.72	25849239	0.01	200000	
Se	78	2	He	25.072	50.144	4.26	3882	0.65	2000	
As	75	2	He	24.496	48.992	1.46	41515	0.06	2000	
Ca	44	2	He	10020.180	20040.361	1.37	621586	1.61	200000	
Na	23	2	He	89736.794	179473.588	1.40	150843014	0.06	200000	
Mg	24	2	He	6588.058	13176.116	2.04	6785336	0.10	200000	
K	39	2	He	2946.774	5893.549	1.25	3602602	0.08	200000	
Mn	55	2	He	119.616	239.232	0.95	982710	0.01	2000	
Co	59	2	He	24.565	49.131	2.01	407299	0.01	2000	
Ni	60	2	He	25.193	50.385	0.99	107360	0.02	2000	
Cu	63	2	He	24.602	49.204	2.67	281711	0.01	2000	
Zn	66	2	He	30.319	60.639	0.51	64729	0.05	2000	
Al	27	2	He	53.602	107.204	2.69	35525	0.15	2000	
B	11	1	No Gas	216.679	433.357	1.43	658207	0.03	2000	
Al	27	1	No Gas	51.452	102.904	2.57	1263022	0.00	2000	
Si	28	1	No Gas	11309.789	22619.577	2.90	128295001	0.01	2000	>LDR
Ag	107	1	No Gas	23.964	47.927	2.22	763984	0.00	2000	
Cd	111	1	No Gas	24.308	48.617	1.75	154512	0.02	2000	
Sr	88	1	No Gas	162.713	325.426	3.03	10241929	0.00	2000	
Mo	95	1	No Gas	23.508	47.015	2.48	284555	0.01	2000	
Sn	118	1	No Gas	42.464	84.928	1.91	889975	0.00	2000	
Sb	121	1	No Gas	25.318	50.636	1.08	693624	0.00	2000	
Ba	137	1	No Gas	121.518	243.036	2.96	1285260	0.01	2000	
Tl	205	1	No Gas	20.220	40.441	2.76	1532825	0.00	2000	
Tl	203	1	No Gas	20.231	40.461	1.75	624509	0.00	2000	
Pb	208	1	No Gas	23.625	47.251	1.33	2451071	0.00	2000	
U	238	1	No Gas	43.656	87.312	0.91	4745844	0.00	2000	
Ca	43	2	He	9982.687	19965.375	2.37	36318	27.49	200000	
Sb	121	2	He	25.598	51.196	1.22	306217	0.01	2000	
Ti	47	2	He	67.596	135.192	0.59	24311	0.28	2000	
Cu	63	1	No Gas	24.876	49.751	2.17	555416	0.00	2000	
Ca	44	1	No Gas	9963.888	19927.777	1.75	8792213	0.11	200000	
Zn	66	1	No Gas	28.548	57.096	0.81	175528	0.02	2000	
Se	82	1	No Gas	24.234	48.467	5.86	9380	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1341212	0.53	1676119	80.02	70	120	
Ge	72	2	He	1085752	0.32	1163381	93.33	70	120	
Ge	72	1	No Gas	3802419	0.30	4078799	93.22	70	120	

Sample Report

In	115	1	No Gas	4909495	1.62	5144583	95.43	70	120	
Bi	209	1	No Gas	5104730	0.73	4944446	103.24	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	178SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:46:13-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	53.272	106.545	1.81	1107681	0.00	2000	
Be	9	1	No Gas	24.081	48.161	1.66	119653	0.02	2000	
V	51	2	He	23.906	47.811	1.92	229339	0.01	2000	
Cr	52	2	He	23.941	47.881	1.93	268773	0.01	2000	
Fe	56	2	He	2513.312	5026.624	1.98	25581056	0.01	200000	
Se	78	2	He	24.770	49.541	0.19	3840	0.65	2000	
As	75	2	He	24.159	48.318	1.67	40978	0.06	2000	
Ca	44	2	He	9926.309	19852.618	2.24	616209	1.61	200000	
Na	23	2	He	89013.439	178026.878	2.03	149733861	0.06	200000	
Mg	24	2	He	6520.049	13040.099	1.54	6720233	0.10	200000	
K	39	2	He	2918.474	5836.948	1.83	3571822	0.08	200000	
Mn	55	2	He	118.746	237.493	2.57	976269	0.01	2000	
Co	59	2	He	24.370	48.740	2.45	404367	0.01	2000	
Ni	60	2	He	25.103	50.205	1.95	107056	0.02	2000	
Cu	63	2	He	24.406	48.812	1.04	279682	0.01	2000	
Zn	66	2	He	28.697	57.394	1.49	61364	0.05	2000	
Al	27	2	He	54.214	108.427	1.14	35943	0.15	2000	
B	11	1	No Gas	217.805	435.611	1.95	660912	0.03	2000	
Al	27	1	No Gas	51.443	102.885	3.51	1266173	0.00	2000	
Si	28	1	No Gas	11297.009	22594.017	3.20	128492805	0.01	2000	>LDR
Ag	107	1	No Gas	23.911	47.822	1.80	764185	0.00	2000	
Cd	111	1	No Gas	24.214	48.428	2.20	154275	0.02	2000	
Sr	88	1	No Gas	162.162	324.325	1.89	10233270	0.00	2000	
Mo	95	1	No Gas	23.417	46.833	1.88	284159	0.01	2000	
Sn	118	1	No Gas	42.754	85.508	1.60	898193	0.00	2000	
Sb	121	1	No Gas	25.574	51.148	2.39	702497	0.00	2000	
Ba	137	1	No Gas	123.291	246.582	2.03	1307308	0.01	2000	
Tl	205	1	No Gas	20.028	40.057	2.11	1538133	0.00	2000	
Tl	203	1	No Gas	20.152	40.305	1.88	630270	0.00	2000	
Pb	208	1	No Gas	23.578	47.156	1.83	2478322	0.00	2000	
U	238	1	No Gas	43.270	86.539	0.85	4765983	0.00	2000	
Ca	43	2	He	10320.470	20640.941	1.72	37571	27.47	200000	
Sb	121	2	He	25.233	50.466	1.81	302069	0.01	2000	
Ti	47	2	He	66.163	132.327	2.25	23817	0.28	2000	
Cu	63	1	No Gas	24.951	49.901	3.00	558560	0.00	2000	
Ca	44	1	No Gas	9912.366	19824.731	3.34	8769989	0.11	200000	
Zn	66	1	No Gas	28.506	57.012	2.84	175743	0.02	2000	
Se	82	1	No Gas	23.735	47.469	4.64	9220	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1339822	0.21	1676119	79.94	70	120	
Ge	72	2	He	1086649	1.03	1163381	93.40	70	120	
Ge	72	1	No Gas	3812922	0.73	4078799	93.48	70	120	

Sample Report

In	115	1	No Gas	4920664	0.49	5144583	95.65	70	120	
Bi	209	1	No Gas	5171875	1.22	4944446	104.60	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	179SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:48:41-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	7.707	15.414	0.96	223574	0.00	2000	
Be	9	1	No Gas	48.157	96.314	1.99	240289	0.02	2000	
V	51	2	He	47.847	95.693	0.86	455329	0.01	2000	
Cr	52	2	He	47.520	95.041	0.99	521399	0.01	2000	
Fe	56	2	He	4968.057	9936.115	0.74	50530004	0.01	200000	
Se	78	2	He	50.017	100.033	2.53	7605	0.66	2000	
As	75	2	He	48.381	96.761	1.88	81718	0.06	2000	
Ca	44	2	He	12105.104	24210.208	1.61	751063	1.61	200000	
Na	23	2	He	90458.522	180917.044	1.52	152113931	0.06	200000	
Mg	24	2	He	8923.691	17847.382	1.44	9195351	0.10	200000	
K	39	2	He	5334.231	10668.461	1.44	6430191	0.08	200000	
Mn	55	2	He	141.918	283.836	0.74	1166289	0.01	2000	
Co	59	2	He	48.584	97.168	1.11	805134	0.01	2000	
Ni	60	2	He	49.806	99.613	0.94	211973	0.02	2000	
Cu	63	2	He	48.379	96.759	1.35	553540	0.01	2000	
Zn	66	2	He	54.581	109.162	1.24	115869	0.05	2000	
Al	27	2	He	52.916	105.832	1.35	35104	0.15	2000	
B	11	1	No Gas	8.152	16.304	4.24	33768	0.02	2000	
Al	27	1	No Gas	51.167	102.334	2.88	1246655	0.00	2000	
Si	28	1	No Gas	11206.201	22412.401	2.82	126141208	0.01	2000	>LDR
Ag	107	1	No Gas	48.865	97.730	1.89	1564980	0.00	2000	
Cd	111	1	No Gas	48.402	96.804	1.52	309261	0.02	2000	
Sr	88	1	No Gas	118.276	236.551	2.31	7485776	0.00	2000	
Mo	95	1	No Gas	46.542	93.084	2.21	566199	0.01	2000	
Sn	118	1	No Gas	0.203	0.405	3.92	10458	0.00	2000	
Sb	121	1	No Gas	49.781	99.561	2.29	1352761	0.00	2000	
Ba	137	1	No Gas	144.825	289.650	2.44	1539824	0.01	2000	
Tl	205	1	No Gas	47.516	95.032	1.20	3621288	0.00	2000	
Tl	203	1	No Gas	47.247	94.494	1.25	1466398	0.00	2000	
Pb	208	1	No Gas	47.325	94.649	1.60	4935674	0.00	2000	
U	238	1	No Gas	0.346	0.693	5.81	41851	0.00	2000	
Ca	43	2	He	11939.673	23879.345	1.25	43445	27.48	200000	
Sb	121	2	He	49.531	99.062	1.83	592570	0.01	2000	
Ti	47	2	He	49.858	99.716	2.09	17942	0.28	2000	
Cu	63	1	No Gas	48.719	97.439	2.03	1073256	0.00	2000	
Ca	44	1	No Gas	12328.855	24657.709	3.08	10788695	0.11	200000	
Zn	66	1	No Gas	52.739	105.479	2.72	319586	0.02	2000	
Se	82	1	No Gas	48.568	97.136	3.97	18249	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1346434	0.16	1676119	80.33	70	120	
Ge	72	2	He	1086243	0.95	1163381	93.37	70	120	
Ge	72	1	No Gas	3773611	1.10	4078799	92.52	70	120	

Sample Report

In	115	1	No Gas	4934465	0.27	5144583	95.92	70	120	
Bi	209	1	No Gas	5137205	0.94	4944446	103.90	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	184_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:07:53-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.017	1.230	1916848	1.37	100	96.0	90	110	
Be	9	1	No Gas	103.294	1.737	507031	1.93	100	103.3	90	110	
V	51	2	He	99.303	3.015	939239	2.28	100	99.3	90	110	
Cr	52	2	He	99.183	3.025	1072808	2.22	100	99.2	90	110	
Fe	56	2	He	9483.686	3.124	96237739	2.27	10000	94.8	90	110	
Se	78	2	He	100.185	4.083	15057	3.47	100	100.2	90	110	
As	75	2	He	99.555	2.648	167462	2.11	100	99.6	90	110	
Ca	44	2	He	9154.792	2.976	567048	2.40	10000	91.5	90	110	
Na	23	2	He	9309.643	2.194	15892682	1.47	10000	93.1	90	110	
Mg	24	2	He	9412.361	2.554	9677968	1.90	10000	94.1	90	110	
K	39	2	He	9373.544	1.865	11187793	1.33	10000	93.7	90	110	
Mn	55	2	He	98.550	2.482	808442	1.66	100	98.5	90	110	
Co	59	2	He	101.235	2.673	1673344	1.81	100	101.2	90	110	
Ni	60	2	He	101.102	3.224	428951	2.52	100	101.1	90	110	
Cu	63	2	He	101.894	2.934	1162574	2.07	100	101.9	90	110	
Zn	66	2	He	101.532	1.629	214358	1.14	100	101.5	90	110	
Al	27	2	He	98.829	2.901	63982	2.55	100	98.8	90	110	
B	11	1	No Gas	467.334	1.227	1392117	1.38	500	93.5	90	110	
Al	27	1	No Gas	96.751	1.907	2296660	2.16	100	96.8	90	110	
Si	28	1	No Gas	469.520	1.859	5611497	1.95	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.909	0.626	3215092	1.32	100	100.9	90	110	
Cd	111	1	No Gas	102.062	1.566	648988	2.02	100	102.1	90	110	
Sr	88	1	No Gas	99.672	0.722	6278345	1.01	100	99.7	90	110	
Mo	95	1	No Gas	96.890	1.434	1172814	1.61	100	96.9	90	110	
Sn	118	1	No Gas	103.093	1.301	2152715	1.59	100	103.1	90	110	
Sb	121	1	No Gas	109.418	1.271	2963088	1.25	100	109.4	90	110	
Ba	137	1	No Gas	102.416	1.799	1083950	2.39	100	102.4	90	110	
Tl	205	1	No Gas	105.634	1.386	8196864	1.96	100	105.6	90	110	
Tl	203	1	No Gas	105.059	1.254	3319909	1.73	100	105.1	90	110	
Pb	208	1	No Gas	101.583	1.333	10785257	2.13	100	101.6	90	110	
U	238	1	No Gas	96.961	1.189	10800357	1.49	100	97.0	90	110	
Ca	43	2	He	9235.717	3.166	33544	2.09	10000	92.4	90	110	
Sb	121	2	He	105.920	1.797	1264372	1.28	100	105.9	90	110	
Ti	47	2	He	98.635	2.630	35412	2.25	100	98.6	90	110	
Cu	63	1	No Gas	101.563	1.616	2223150	1.95	100	101.6	90	110	
Se	82	1	No Gas	103.576	0.829	38328	0.83	100	103.6	90	110	
Zr	90	1	No Gas	50.669	0.899	1994807	1.22	100	50.7	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.148	2.327	791124	1.53	100	51.1	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1325117	0.65	1676119	79.06	70	120	
Ge	72	2	He	1084144	1.09	1163381	93.19	70	120	
Ge	72	1	No Gas	3760875	0.52	4078799	92.21	70	120	
In	115	1	No Gas	4910483	0.87	5144583	95.45	70	120	
Bi	209	1	No Gas	5232986	0.94	4944446	105.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:37:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.602	2.103	1909078	2.61	100	96.6	90	110	
Be	9	1	No Gas	104.158	2.177	506221	2.64	100	104.2	90	110	
V	51	2	He	100.930	2.027	934733	2.43	100	100.9	90	110	
Cr	52	2	He	100.437	2.591	1063668	3.02	100	100.4	90	110	
Fe	56	2	He	9568.008	1.937	95074682	2.15	10000	95.7	90	110	
Se	78	2	He	101.762	1.790	14974	2.28	100	101.8	90	110	
As	75	2	He	100.750	2.907	165949	3.45	100	100.8	90	110	
Ca	44	2	He	9359.178	1.785	567617	2.12	10000	93.6	90	110	
Na	23	2	He	9486.946	1.363	15851834	1.56	10000	94.9	90	110	
Mg	24	2	He	9538.159	1.762	9603041	2.11	10000	95.4	90	110	
K	39	2	He	9502.388	1.830	11103335	2.16	10000	95.0	90	110	
Mn	55	2	He	99.679	2.197	800658	2.31	100	99.7	90	110	
Co	59	2	He	102.304	2.384	1655774	2.47	100	102.3	90	110	
Ni	60	2	He	102.102	2.380	424166	2.41	100	102.1	90	110	
Cu	63	2	He	102.677	2.137	1147124	2.26	100	102.7	90	110	
Zn	66	2	He	101.864	1.820	210563	2.08	100	101.9	90	110	
Al	27	2	He	99.134	1.063	62836	1.80	100	99.1	90	110	
B	11	1	No Gas	470.612	1.729	1387899	1.86	500	94.1	90	110	
Al	27	1	No Gas	98.101	1.386	2300673	2.31	100	98.1	90	110	
Si	28	1	No Gas	470.960	0.948	5561782	1.84	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.744	0.994	3190048	1.28	100	100.7	90	110	
Cd	111	1	No Gas	102.609	1.454	648436	1.74	100	102.6	90	110	
Sr	88	1	No Gas	99.806	1.346	6248242	1.61	100	99.8	90	110	
Mo	95	1	No Gas	96.513	0.925	1161073	1.21	100	96.5	90	110	
Sn	118	1	No Gas	103.381	1.292	2145441	1.57	100	103.4	90	110	
Sb	121	1	No Gas	110.361	0.695	2953699	1.64	100	110.4	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	102.687	1.180	1080074	1.45	100	102.7	90	110	
Tl	205	1	No Gas	105.725	1.540	8145606	1.04	100	105.7	90	110	
Tl	203	1	No Gas	105.585	1.212	3312940	0.84	100	105.6	90	110	
Pb	208	1	No Gas	101.885	0.425	10740764	0.65	100	101.9	90	110	
U	238	1	No Gas	96.537	1.274	10677588	1.31	100	96.5	90	110	
Ca	43	2	He	9330.908	0.588	33186	1.28	10000	93.3	90	110	
Sb	121	2	He	107.320	1.517	1254324	1.75	100	107.3	90	110	
Ti	47	2	He	100.240	1.359	35238	2.01	100	100.2	90	110	
Cu	63	1	No Gas	102.464	1.398	2216618	2.33	100	102.5	90	110	
Se	82	1	No Gas	106.011	1.163	38762	2.13	100	106.0	90	110	
Zr	90	1	No Gas	50.778	0.817	1986786	1.07	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	52.349	2.020	792799	2.25	100	52.3	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1311975	0.92	1676119	78.27	70	120	
Ge	72	2	He	1061393	0.77	1163381	91.23	70	120	
Ge	72	1	No Gas	3716739	0.98	4078799	91.12	70	120	
In	115	1	No Gas	4880196	0.29	5144583	94.86	70	120	
Bi	209	1	No Gas	5196400	1.07	4944446	105.10	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:39:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.156	6.9	78263	0.1	0.5	
Be	9	1	No Gas	0.096	31.0	682	22.5	0.5	
V	51	2	He	-0.143	-6.6	2182	3.8	2.5	
Cr	52	2	He	-0.459	-2.7	7205	2.2	2.5	
Fe	56	2	He	5.307	4.9	73013	3.8	100	
Se	78	2	He	0.141	22.8	164	3.2	2	
As	75	2	He	0.026	33.1	367	3.6	2.5	
Ca	44	2	He	10.378	29.3	1500	12.2	100	
Na	23	2	He	-62.126	-0.1	196166	1.0	100	
Mg	24	2	He	5.505	6.7	6498	5.3	100	
K	39	2	He	1.095	31.7	117740	1.0	100	
Mn	55	2	He	0.249	17.7	2824	12.7	2.5	
Co	59	2	He	0.041	13.8	1427	5.6	2.5	
Ni	60	2	He	0.110	20.1	863	11.4	2.5	
Cu	63	2	He	0.102	12.1	1873	7.8	2	
Zn	66	2	He	0.795	1.8	2554	1.9	2.5	
Al	27	2	He	-0.641	-33.2	1273	11.3	5	
B	11	1	No Gas	2.721	20.7	17921	9.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.593	-13.2	46069	3.6	5	
Si	28	1	No Gas	0.086	762.3	359504	1.7	10	
Ag	107	1	No Gas	0.059	44.0	2977	27.9	2.5	
Cd	111	1	No Gas	0.090	44.6	581	44.3	1	
Sr	88	1	No Gas	0.122	31.9	11095	22.4	2.5	
Mo	95	1	No Gas	0.159	8.3	2127	7.8	2.5	
Sn	118	1	No Gas	0.120	16.0	8780	4.4	5	
Sb	121	1	No Gas	0.107	28.0	3447	23.1	2.5	
Ba	137	1	No Gas	0.145	23.7	2290	16.3	2.5	
Tl	205	1	No Gas	0.103	29.9	11042	22.8	1	
Tl	203	1	No Gas	0.111	31.9	4708	25.0	1	
Pb	208	1	No Gas	0.089	27.7	15424	18.0	2.5	
U	238	1	No Gas	0.081	27.8	13288	20.0	2.5	
Ca	43	2	He	15.535	52.5	97	29.9	100	
Sb	121	2	He	0.058	9.2	920	7.8	2.5	
Ti	47	2	He	0.040	119.9	30	57.7	2.5	
Cu	63	1	No Gas	-0.068	-32.0	4971	9.1	2.5	
Se	82	1	No Gas	-0.135	-40.8	357	5.8	2	
Zr	90	1	No Gas	0.077	27.5	4341	19.8	2.5	
Zr	90	2	He	0.041	26.7	2314	7.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383746	0.17	1676119	82.56	70	120	
Ge	72	2	He	1085236	0.98	1163381	93.28	70	120	
Ge	72	1	No Gas	3765611	0.52	4078799	92.32	70	120	

Continuing Calibration Blank (CCB) Report

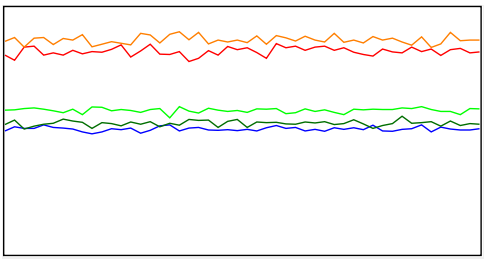
In	115	1	No Gas	4960361	0.55	5144583	96.42	70	120	
Bi	209	1	No Gas	5299915	0.82	4944446	107.19	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq. Date-Time	6/25/2024 9:15:11 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	8229	82290.73		
24	50000	29188	291881.17		
59	100000	50763	507626.89		
115	100000	86958	869579.47		
208	100000	53101	531012.52		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.037	5.000	
24	1.594	5.000	
59	1.685	5.000	
115	1.884	5.000	
208	2.024	5.000	

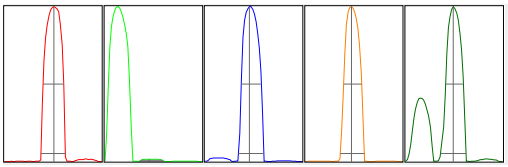
Mass	Background	Background (Required)	Background (Flag)
9	1.200		
24	3.400		
59	1.100		
115	1.700		
208	4.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.066 %
Doubly Charged	70 / 140 1.008 %

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	8414.64	9.05	8.90 - 9.10	
24	29368.60	23.90	23.90 - 24.10	
59	51640.05	58.90	58.90 - 59.10	
115	87898.89	114.95	114.90 - 115.10	
208	53310.84	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.747		
59	0.62	0.779		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

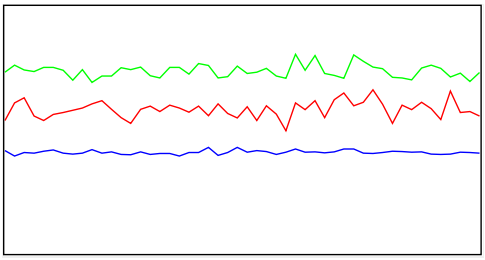
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec] 0.306
Integration Time [sec] 0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	292	2915.10		
24	2000	1477	14773.28		
59	50000	20440	204403.23		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

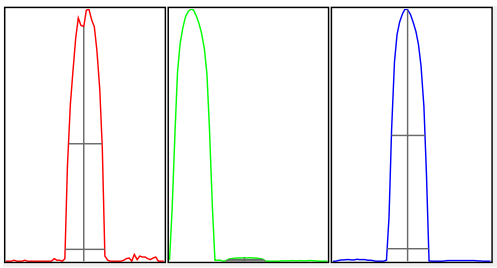
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.890	5.000	Fail
24	3.603	5.000	
59	1.911	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.700		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.394 %
Doubly Charged 70 / 140 0.828 %

Resolution/Axis



Integration Time [sec] 0.1
Acquisition Time [sec] 22.24
Y Axis Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	282.79	9.00	8.90 - 9.10	
24	1482.83	23.95	23.90 - 24.10	
59	20564.08	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.746		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.779		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

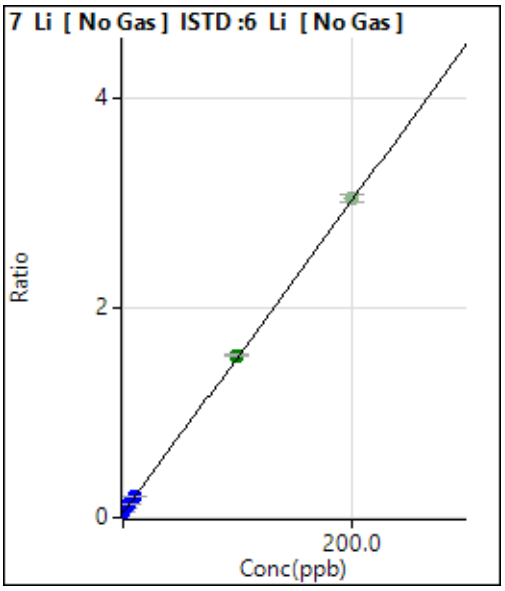
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 140_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

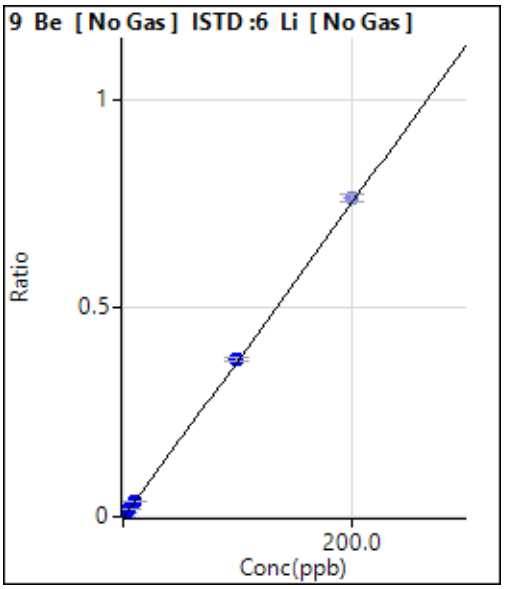
Level	Standard Data File	Sample Name	Acq. Date-Time
1	133CALB.d	CAL BLK	6/26/2024 4:47:01 PM
2	134CALS.d	2/10/200	6/26/2024 4:49:32 PM
3	135CALS.d	5/25/500	6/26/2024 4:52:02 PM
4	136CALS.d	10/50/100	6/26/2024 4:54:32 PM
5	137CALS.d	100/500/10K	6/26/2024 4:57:02 PM
6	138CALS.d	200/1000/20K	6/26/2024 4:59:31 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59739.42	0.0586	P	0.5	
2	☐	2.000	1.849	86936.29	0.0861	P	1.2	-7.5
3	☐	5.000	4.802	129606.31	0.1300	P	1.8	-4.0
4	☐	10.000	9.750	200285.92	0.2036	P	1.3	-2.5
5	☐	100.000	100.038	1414536.59	1.5463	A	1.5	0.0
6	☑	200.000		2653793.29	3.0422	A	1.8	

y = 0.0149 * x + 0.0586
R = 1.0000
DL = 0.05751 ppb
BEC = 3.938 ppb

Weight: <None>
Min Conc: <None>

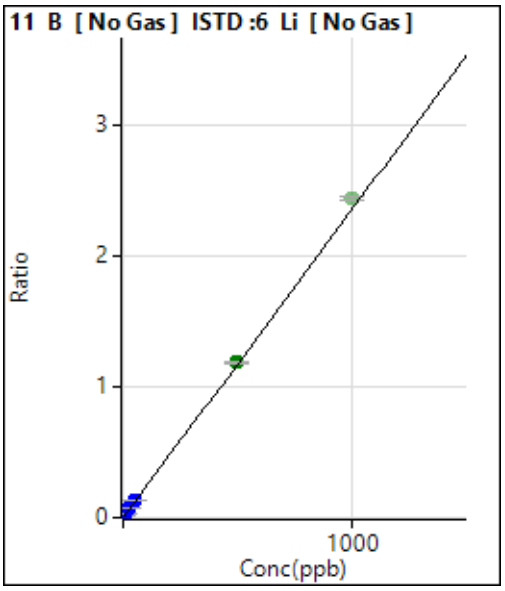


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88.33	0.0001	P	13.1	
2	☐	2.000	1.828	7055.14	0.0070	P	1.0	-8.6
3	☐	5.000	4.820	18225.08	0.0183	P	4.3	-3.6
4	☐	10.000	9.782	36411.44	0.0370	P	0.4	-2.2
5	☐	100.000	100.034	345473.25	0.3776	P	2.1	0.0
6	☑	200.000		666285.16	0.7638	P	2.3	

y = 0.0038 * x + 8.6598E-005
R = 1.0000
DL = 0.008996 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

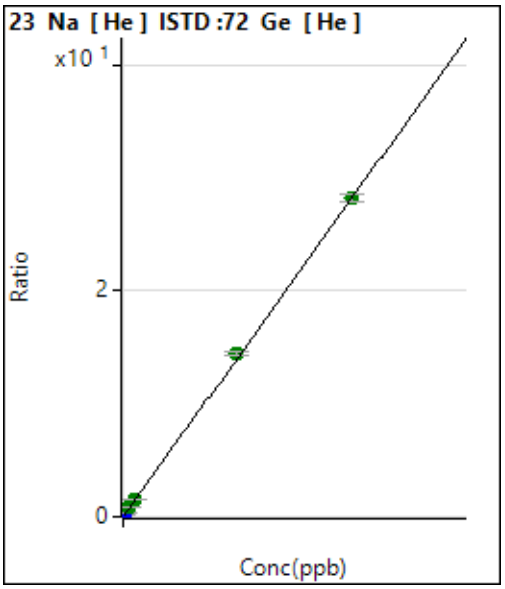
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12960.97	0.0127	P	2.0	
2	☐	10.000	9.617	35709.72	0.0354	P	1.1	-3.8
3	☐	25.000	23.824	68611.09	0.0688	P	1.0	-4.7
4	☐	50.000	48.860	125691.89	0.1278	P	3.2	-2.3
5	☐	500.000	500.180	1089085.66	1.1905	A	1.2	0.0
6	☑	1000.000		2132865.70	2.4450	A	1.3	

y = 0.0024 * x + 0.0127
R = 1.0000
DL = 0.3315 ppb
BEC = 5.396 ppb

Weight: <None>
Min Conc: <None>

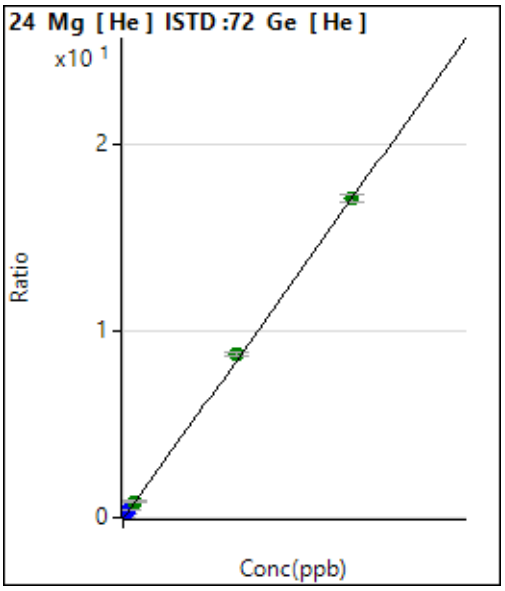


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146783.30	0.1396	P	1.4	
2	☐	200.000	177.705	408291.71	0.3899	P	1.8	-11.1
3	☐	500.000	483.339	848457.20	0.8205	A	1.3	-3.3
4	☐	1000.000	1003.641	1585793.26	1.5534	A	1.3	0.4
5	☐	10000.00	10151.20	14003940.63	14.4393	A	1.8	1.5
6	☐	20000.00	19924.85	27350490.43	28.2072	A	2.4	-0.4

y = 0.0014 * x + 0.1396
R = 1.0000
DL = 4.253 ppb
BEC = 99.11 ppb

Weight: <None>
Min Conc: <None>

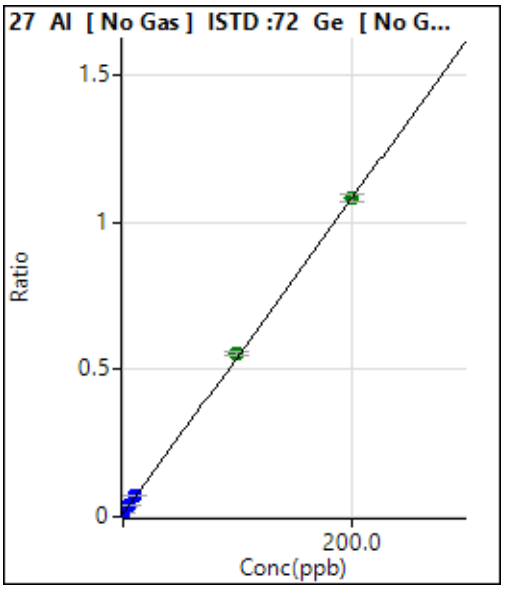
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8726.18	0.0083	P	4.3	
2	☐	200.000	182.984	173615.92	0.1658	P	3.1	-8.5
3	☐	500.000	481.677	437267.96	0.4229	P	1.5	-3.7
4	☐	1000.000	1007.165	893387.10	0.8751	A	1.6	0.7
5	☐	10000.00	10166.53	8494172.37	8.7582	A	2.0	1.7
6	☐	20000.00	19917.00	16628555.59	17.1499	A	2.8	-0.4

y = 8.6065E-004 * x + 0.0083
R = 0.9999
DL = 1.246 ppb
BEC = 9.644 ppb

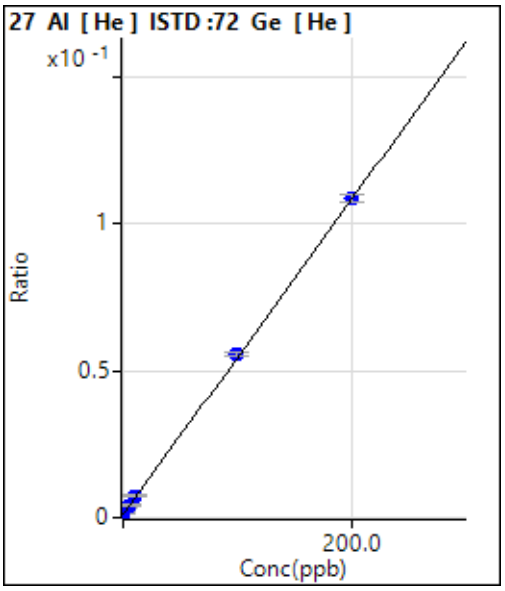
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55051.69	0.0151	P	1.8	
2	☐	2.000	3.282	118462.80	0.0327	P	1.6	64.1
3	☐	5.000	5.039	150024.81	0.0421	P	0.7	0.8
4	☐	10.000	10.635	253416.03	0.0720	P	2.2	6.3
5	☐	100.000	100.929	1885819.87	0.5553	A	2.1	0.9
6	☐	200.000	199.490	3588785.05	1.0828	A	2.8	-0.3

y = 0.0054 * x + 0.0151
R = 1.0000
DL = 0.1551 ppb
BEC = 2.821 ppb

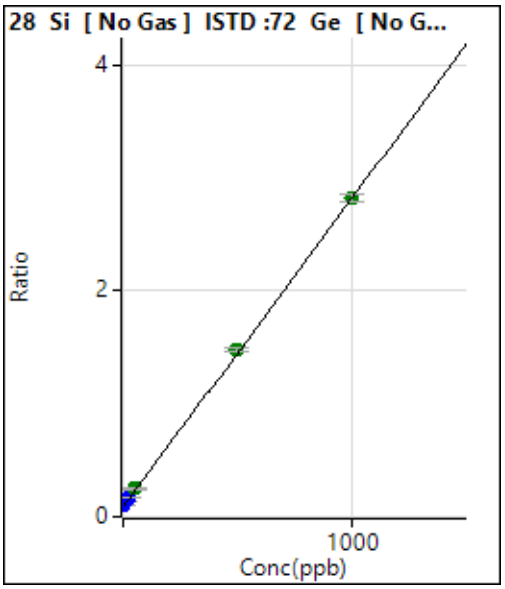
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0016	P	10.2	
2	☐	2.000	2.991	3350.45	0.0032	P	2.8	49.6
3	☐	5.000	4.926	4380.76	0.0042	P	1.2	-1.5
4	☐	10.000	10.519	7385.39	0.0072	P	7.9	5.2
5	☐	100.000	100.622	53829.69	0.0555	P	2.8	0.6
6	☐	200.000	199.655	105254.43	0.1085	P	2.1	-0.2

y = 5.3567E-004 * x + 0.0016
R = 1.0000
DL = 0.9129 ppb
BEC = 2.983 ppb

Weight: <None>
Min Conc: <None>

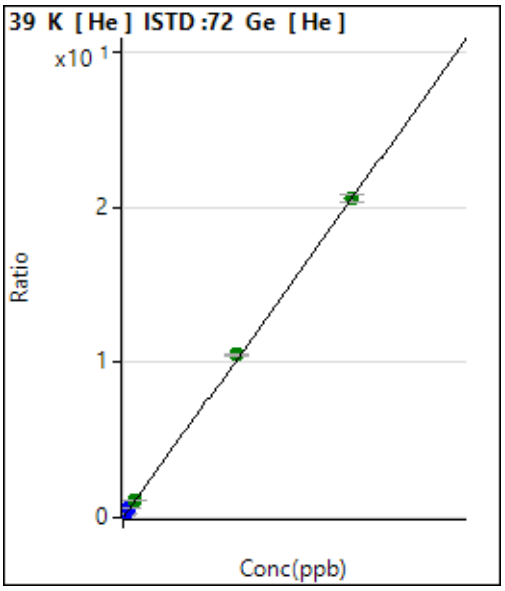


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368920.63	0.1012	P	1.1	
2	☐	10.000	11.991	485632.29	0.1339	P	0.6	19.9
3	☐	25.000	26.152	615457.02	0.1726	P	1.0	4.6
4	☐	50.000	54.305	877776.08	0.2494	A	2.6	8.6
5	☐	500.000	504.971	5025941.59	1.4799	A	2.3	1.0
6	☐	1000.000	997.250	9359982.99	2.8239	A	2.3	-0.3

y = 0.0027 * x + 0.1012
R = 1.0000
DL = 1.206 ppb
BEC = 37.06 ppb

Weight: <None>
Min Conc: <None>

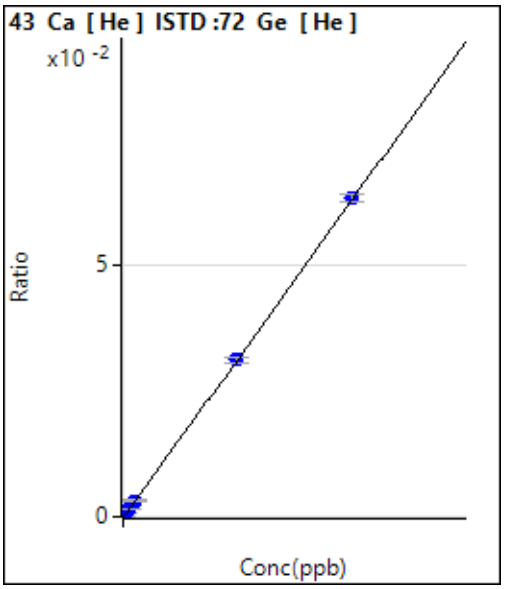
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101288.72	0.0963	P	1.3	
2	☐	200.000	181.230	296313.44	0.2830	P	1.4	-9.4
3	☐	500.000	482.962	613955.67	0.5937	P	1.4	-3.4
4	☐	1000.000	1003.062	1152885.14	1.1293	A	1.2	0.3
5	☐	10000.00	10146.94	10228327.56	10.5460	A	1.2	1.5
6	☐	20000.00	19926.98	19991319.29	20.6178	A	2.8	-0.4

y = 0.0010 * x + 0.0963
R = 1.0000
DL = 3.774 ppb
BEC = 93.55 ppb

Weight: <None>
Min Conc: <None>

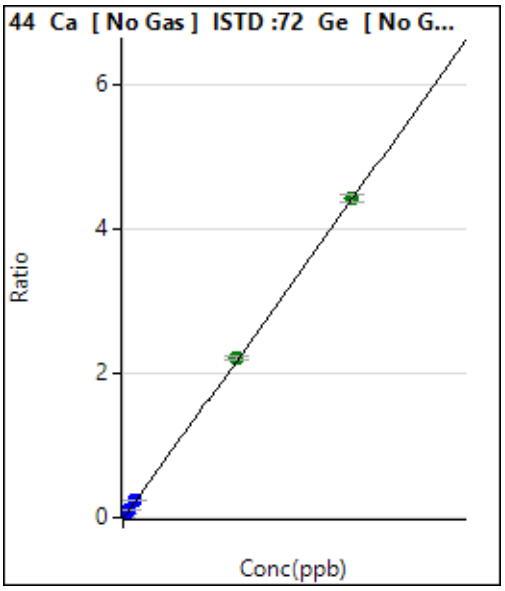


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	53.1	
2	☐	200.000	190.907	673.36	0.0006	P	18.5	-4.5
3	☐	500.000	491.614	1643.46	0.0016	P	7.5	-1.7
4	☐	1000.000	1001.817	3263.79	0.0032	P	10.7	0.2
5	☐	10000.00	9890.718	30259.79	0.0312	P	3.5	-1.1
6	☐	20000.00	20054.85	61284.74	0.0632	P	2.6	0.3

y = 3.1494E-006 * x + 4.1190E-005
R = 1.0000
DL = 20.83 ppb
BEC = 13.08 ppb

Weight: <None>
Min Conc: <None>

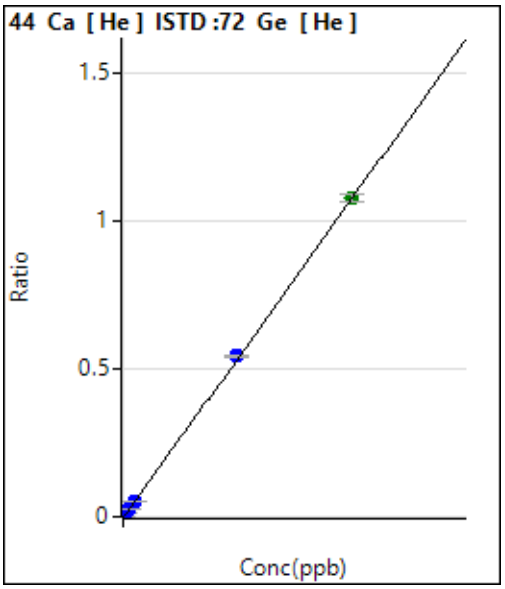
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17087.41	0.0047	P	1.1	
2	☐	200.000	201.566	178411.74	0.0492	P	2.7	0.8
3	☐	500.000	502.319	412283.89	0.1156	P	0.5	0.5
4	☐	1000.000	1023.091	811379.68	0.2306	P	2.4	2.3
5	☐	10000.00	10020.40	7529956.55	2.2171	A	1.9	0.2
6	☐	20000.00	19988.56	14643984.36	4.4180	A	2.2	-0.1

y = 2.2079E-004 * x + 0.0047
R = 1.0000
DL = 0.7153 ppb
BEC = 21.22 ppb

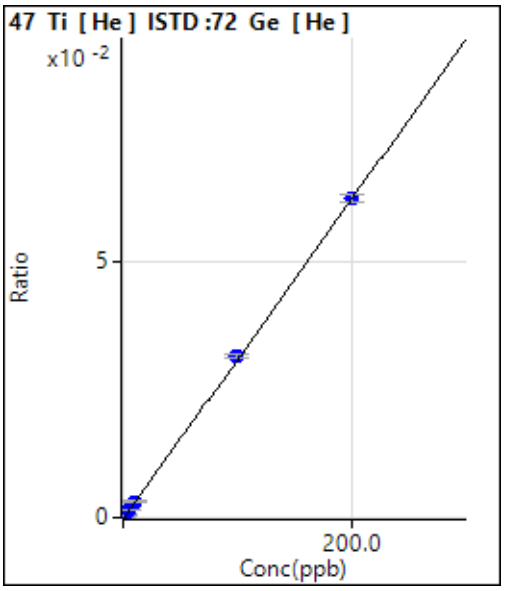
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0007	P	4.5	
2	☐	200.000	195.744	11831.84	0.0113	P	0.8	-2.1
3	☐	500.000	488.245	27991.78	0.0271	P	2.9	-2.4
4	☐	1000.000	996.381	55601.11	0.0545	P	1.5	-0.4
5	☐	10000.00	10080.44	527807.86	0.5442	P	1.3	0.8
6	☐	20000.00	19960.29	1044197.12	1.0769	A	2.4	-0.2

y = 5.3914E-005 * x + 7.4515E-004
R = 1.0000
DL = 1.862 ppb
BEC = 13.82 ppb

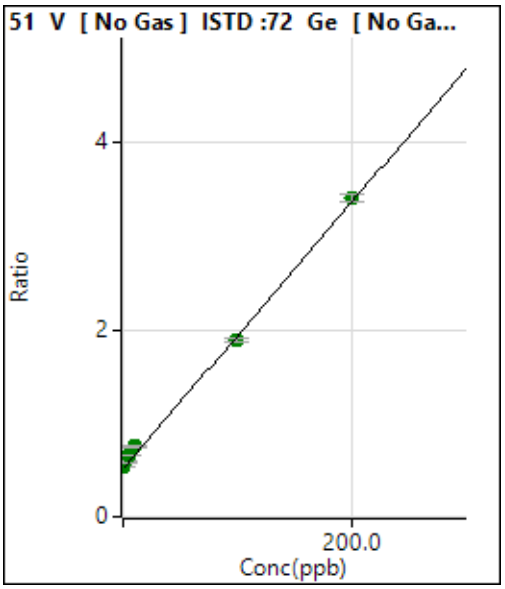
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.740	586.69	0.0006	P	25.3	-13.0
3	☐	5.000	4.584	1496.78	0.0014	P	7.6	-8.3
4	☐	10.000	10.050	3220.44	0.0032	P	4.6	0.5
5	☐	100.000	100.810	30550.63	0.0315	P	2.0	0.8
6	☐	200.000	199.606	60461.52	0.0624	P	2.7	-0.2

y = 3.1232E-004 * x + 1.5861E-005
R = 1.0000
DL = 0.1394 ppb
BEC = 0.05078 ppb

Weight: <None>
Min Conc: <None>

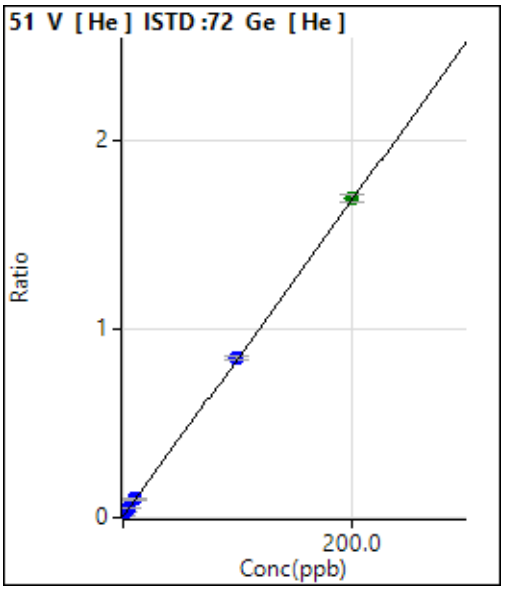


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943223.28	0.5329	A	0.4	
2	☐	2.000	3.761	2126773.10	0.5864	A	0.7	88.1
3	☐	5.000	9.020	2358541.03	0.6613	A	0.6	80.4
4	☐	10.000	15.667	2659965.39	0.7559	A	2.5	56.7
5	☐	100.000	95.137	6409059.95	1.8871	A	2.3	-4.9
6	☐	200.000	202.030	11298388.69	3.4087	A	2.1	1.0

y = 0.0142 * x + 0.5329
R = 0.9991
DL = 0.4021 ppb
BEC = 37.44 ppb

Weight: <None>
Min Conc: <None>

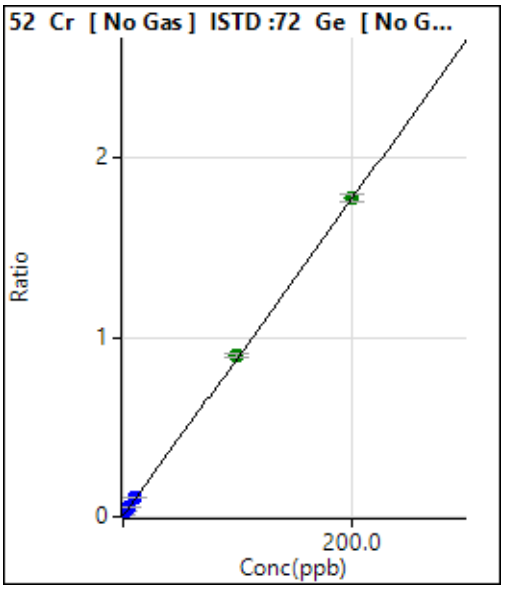
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14058.27	0.0134	P	3.1	
2	☐	2.000	1.876	30514.65	0.0291	P	1.5	-6.2
3	☐	5.000	4.836	55859.63	0.0540	P	2.3	-3.3
4	☐	10.000	9.993	99400.10	0.0974	P	1.9	-0.1
5	☐	100.000	99.210	821733.56	0.8473	P	2.0	-0.8
6	☐	200.000	200.401	1646384.00	1.6979	A	1.8	0.2

y = 0.0084 * x + 0.0134
R = 1.0000
DL = 0.1495 ppb
BEC = 1.591 ppb

Weight: <None>
Min Conc: <None>

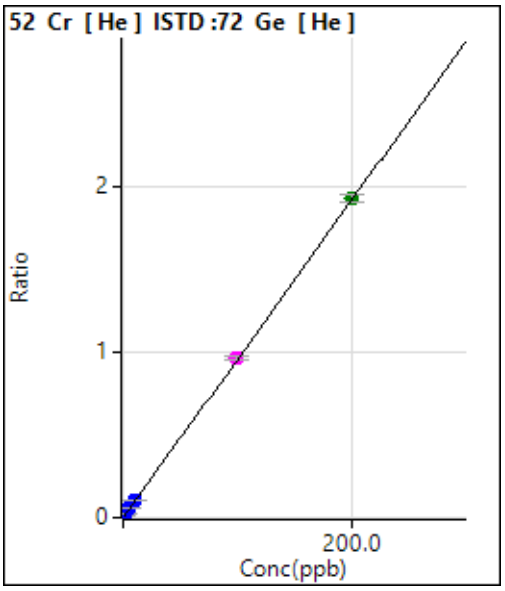


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47093.54	0.0129	P	1.7	
2	☐	2.000	2.007	111146.81	0.0306	P	1.1	0.4
3	☐	5.000	5.099	206720.77	0.0580	P	1.1	2.0
4	☐	10.000	10.352	367238.17	0.1044	P	2.1	3.5
5	☐	100.000	100.460	3057634.75	0.9003	A	2.0	0.5
6	☐	200.000	199.750	5891257.62	1.7774	A	1.9	-0.1

y = 0.0088 * x + 0.0129
R = 1.0000
DL = 0.07386 ppb
BEC = 1.462 ppb

Weight: <None>
Min Conc: <None>

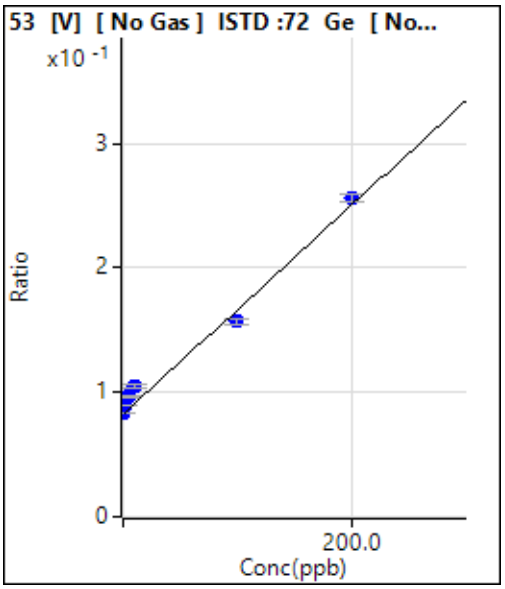
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9503.37	0.0090	P	1.1	
2	☐	2.000	1.847	28011.95	0.0267	P	2.8	-7.7
3	☐	5.000	4.749	56431.70	0.0546	P	1.5	-5.0
4	☐	10.000	9.952	106637.83	0.1045	P	1.7	-0.5
5	☐	100.000	99.668	935667.04	0.9647	M	2.6	-0.3
6	☐	200.000	200.176	1869980.13	1.9285	A	2.0	0.1

y = 0.0096 * x + 0.0090
R = 1.0000
DL = 0.03085 ppb
BEC = 0.9426 ppb

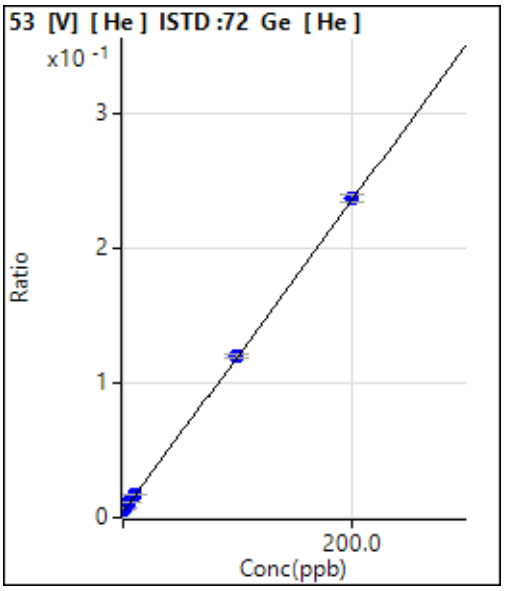
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	305748.07	0.0838	P	0.6	
2	☐	2.000	6.661	324325.33	0.0894	P	1.1	233.1
3	☐	5.000	15.479	345330.51	0.0968	P	1.2	209.6
4	☐	10.000	25.205	369413.37	0.1050	P	2.4	152.0
5	☐	100.000	86.872	532129.78	0.1567	P	3.1	-13.1
6	☐	200.000	205.495	849012.41	0.2562	P	2.6	2.7

y = 8.3849E-004 * x + 0.0838
R = 0.9930
DL = 1.658 ppb
BEC = 100 ppb

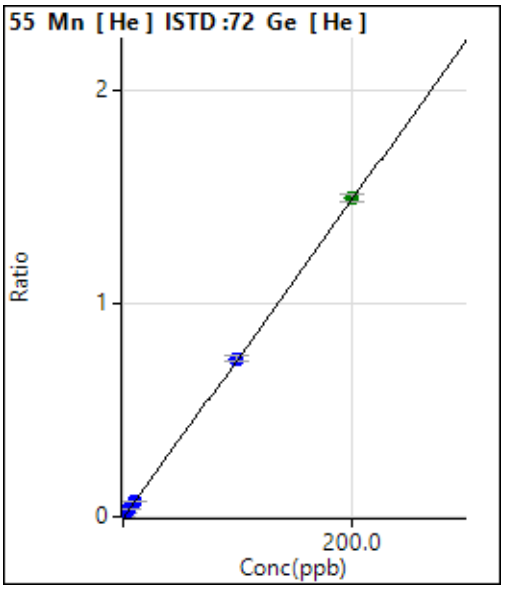
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5747.97	0.0055	P	4.2	
2	☐	2.000	1.936	8065.82	0.0077	P	1.8	-3.2
3	☐	5.000	4.901	11508.30	0.0111	P	1.7	-2.0
4	☐	10.000	10.211	17618.15	0.0173	P	6.7	2.1
5	☐	100.000	98.990	116197.83	0.1198	P	2.3	-1.0
6	☐	200.000	200.498	229853.61	0.2370	P	2.4	0.2

y = 0.0012 * x + 0.0055
R = 1.0000
DL = 0.5962 ppb
BEC = 4.733 ppb

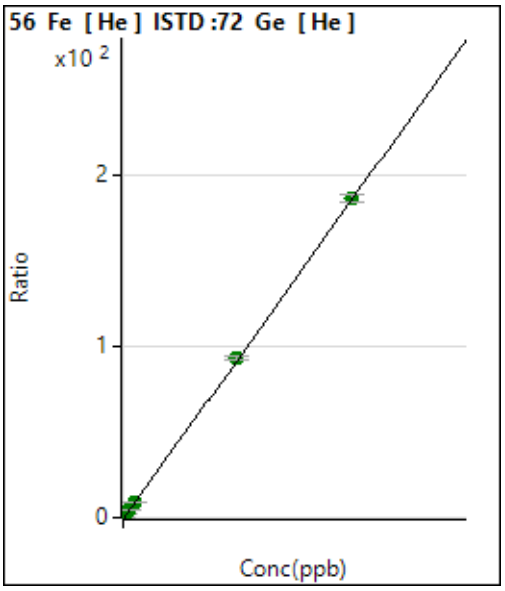
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0007	P	8.6	
2	☐	2.000	1.820	14958.28	0.0143	P	1.2	-9.0
3	☐	5.000	4.776	37594.95	0.0364	P	2.1	-4.5
4	☐	10.000	9.748	75009.68	0.0735	P	2.0	-2.5
5	☐	100.000	99.354	720131.50	0.7425	P	2.8	-0.6
6	☐	200.000	200.343	1451115.91	1.4966	A	2.5	0.2

y = 0.0075 * x + 6.9108E-004
R = 1.0000
DL = 0.02387 ppb
BEC = 0.09255 ppb

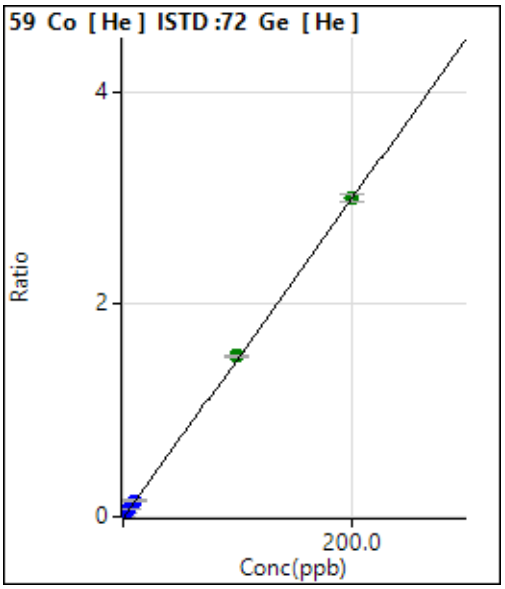
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17014.07	0.0162	P	0.4	
2	☐	200.000	183.589	1805418.72	1.7241	A	2.8	-8.2
3	☐	500.000	476.693	4602724.41	4.4509	A	1.6	-4.7
4	☐	1000.000	993.113	9448265.69	9.2552	A	1.4	-0.7
5	☐	10000.00	9989.267	90143201.99	92.9477	A	2.5	-0.1
6	☐	20000.00	20006.45	180487183.9	186.139	A	2.3	0.0

y = 0.0093 * x + 0.0162
R = 1.0000
DL = 0.0221 ppb
BEC = 1.739 ppb

Weight: <None>
Min Conc: <None>

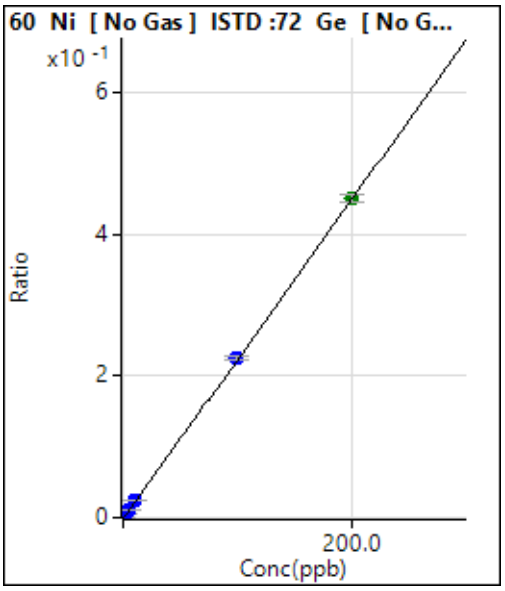


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	476.68	0.0005	P	10.6	
2	☐	2.000	1.806	28900.54	0.0276	P	2.1	-9.7
3	☐	5.000	4.802	75114.60	0.0726	P	2.7	-4.0
4	☐	10.000	10.128	155856.56	0.1527	P	1.6	1.3
5	☐	100.000	100.727	1468712.95	1.5143	A	1.5	0.7
6	☐	200.000	199.637	2909683.60	3.0009	A	2.8	-0.2

y = 0.0150 * x + 4.5345E-004
R = 1.0000
DL = 0.009553 ppb
BEC = 0.03017 ppb

Weight: <None>
Min Conc: <None>

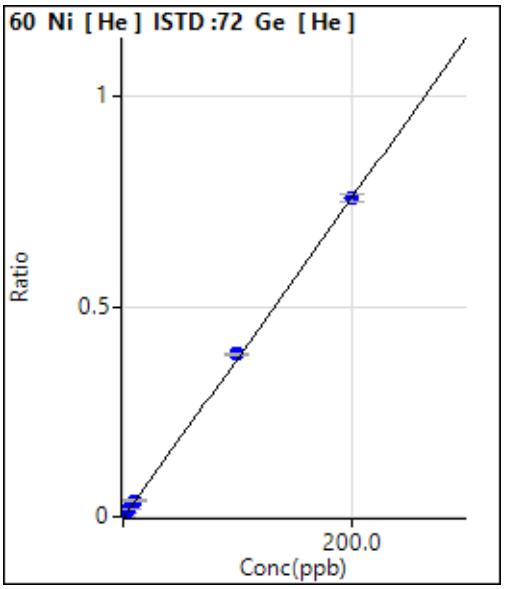
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.75	0.0004	P	10.2	
2	☐	2.000	2.010	17694.91	0.0049	P	4.1	0.5
3	☐	5.000	5.102	42251.83	0.0118	P	2.2	2.0
4	☐	10.000	10.325	83099.39	0.0236	P	2.6	3.3
5	☐	100.000	100.266	768430.48	0.2263	P	2.5	0.3
6	☐	200.000	199.848	1493604.09	0.4506	A	2.6	-0.1

y = 0.0023 * x + 3.5020E-004
R = 1.0000
DL = 0.04778 ppb
BEC = 0.1554 ppb

Weight: <None>
Min Conc: <None>

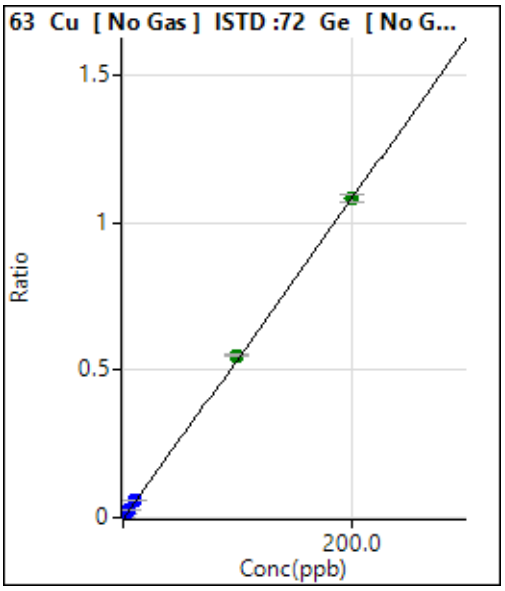


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	23.8	
2	☐	2.000	1.859	7695.60	0.0073	P	4.4	-7.1
3	☐	5.000	5.023	20071.57	0.0194	P	4.2	0.5
4	☐	10.000	10.127	39680.93	0.0389	P	1.1	1.3
5	☐	100.000	101.765	376592.83	0.3883	P	1.0	1.8
6	☐	200.000	199.112	736351.86	0.7594	P	3.0	-0.4

y = 0.0038 * x + 2.6008E-004
R = 0.9999
DL = 0.04861 ppb
BEC = 0.06821 ppb

Weight: <None>
Min Conc: <None>

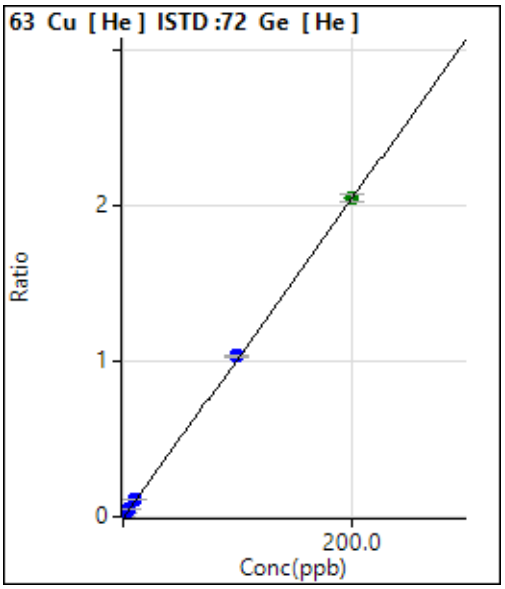
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1720.14	0.0005	P	3.1	
2	☐	2.000	2.097	43071.06	0.0119	P	1.4	4.9
3	☐	5.000	5.175	102067.18	0.0286	P	1.2	3.5
4	☐	10.000	10.391	200512.21	0.0570	P	2.4	3.9
5	☐	100.000	101.386	1874150.55	0.5518	A	2.0	1.4
6	☐	200.000	199.282	3593687.55	1.0842	A	2.1	-0.4

y = 0.0054 * x + 4.7176E-004
R = 1.0000
DL = 0.008055 ppb
BEC = 0.08675 ppb

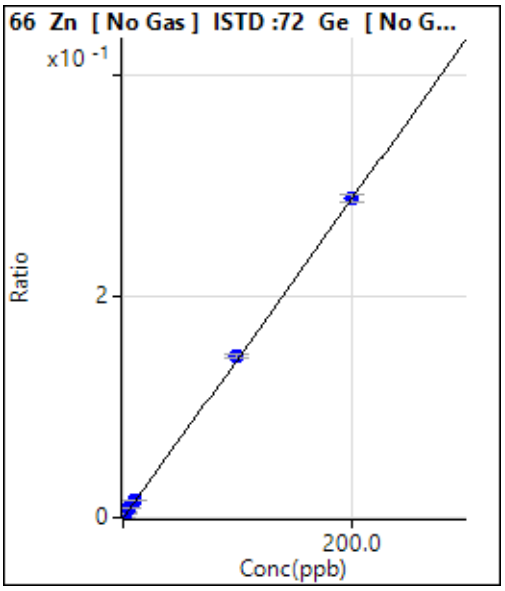
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0006	P	17.6	
2	☐	2.000	1.920	21286.71	0.0203	P	1.5	-4.0
3	☐	5.000	5.006	53798.75	0.0520	P	3.3	0.1
4	☐	10.000	10.267	108260.04	0.1061	P	1.1	2.7
5	☐	100.000	100.544	1002080.51	1.0332	P	0.8	0.5
6	☐	200.000	199.715	1989361.22	2.0517	A	2.6	-0.1

y = 0.0103 * x + 6.0565E-004
R = 1.0000
DL = 0.03114 ppb
BEC = 0.05897 ppb

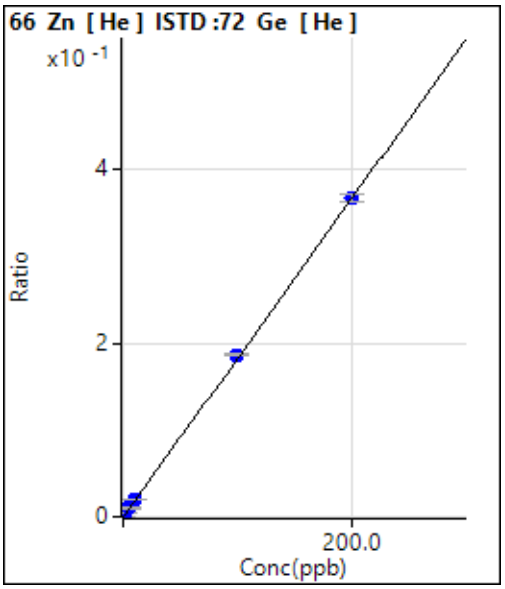
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2747.00	0.0008	P	2.7	
2	☐	2.000	2.469	15642.52	0.0043	P	5.4	23.5
3	☐	5.000	5.190	29368.43	0.0082	P	2.1	3.8
4	☐	10.000	10.188	54330.92	0.0154	P	1.7	1.9
5	☐	100.000	100.839	496222.88	0.1461	P	1.7	0.8
6	☐	200.000	199.562	955953.26	0.2884	P	2.4	-0.2

y = 0.0014 * x + 7.5337E-004
R = 1.0000
DL = 0.04282 ppb
BEC = 0.5226 ppb

Weight: <None>
Min Conc: <None>

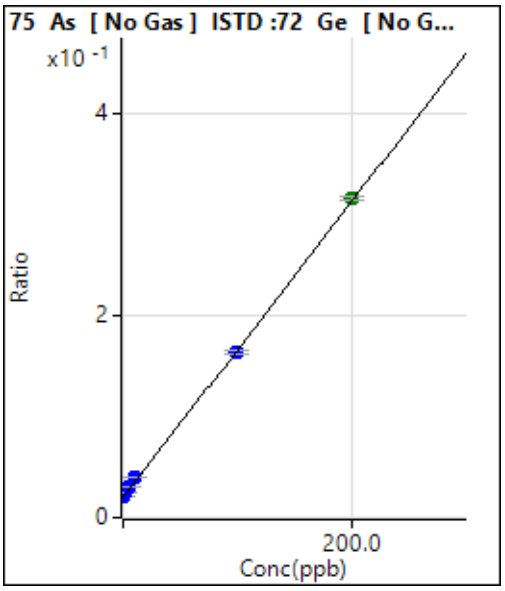


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1103.40	0.0010	P	4.6	
2	☐	2.000	2.115	5161.05	0.0049	P	5.2	5.8
3	☐	5.000	4.957	10490.85	0.0101	P	4.7	-0.9
4	☐	10.000	10.318	20395.45	0.0200	P	1.1	3.2
5	☐	100.000	101.088	180879.80	0.1865	P	0.5	1.1
6	☐	200.000	199.440	355802.53	0.3669	P	2.6	-0.3

y = 0.0018 * x + 0.0010
R = 1.0000
DL = 0.07876 ppb
BEC = 0.572 ppb

Weight: <None>
Min Conc: <None>

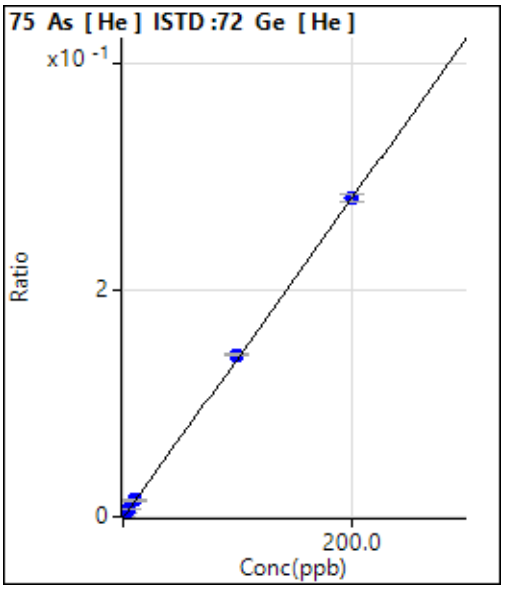
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78944.74	0.0216	P	1.0	
2	☐	2.000	2.654	92630.33	0.0255	P	1.2	32.7
3	☐	5.000	6.309	110222.10	0.0309	P	0.9	26.2
4	☐	10.000	12.432	140369.70	0.0399	P	2.1	24.3
5	☐	100.000	97.338	558562.32	0.1645	P	2.6	-2.7
6	☐	200.000	201.170	1050143.39	0.3168	A	1.3	0.6

y = 0.0015 * x + 0.0216
R = 0.9998
DL = 0.423 ppb
BEC = 14.75 ppb

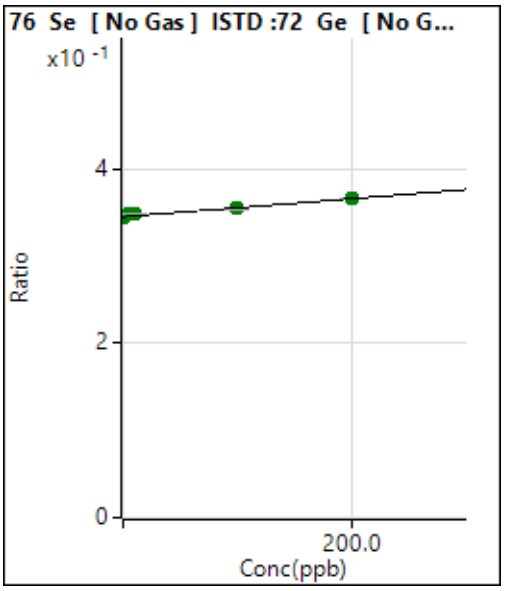
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0004	P	5.7	
2	☐	2.000	1.778	3035.91	0.0029	P	5.3	-11.1
3	☐	5.000	4.792	7396.48	0.0072	P	2.5	-4.2
4	☐	10.000	9.947	14730.21	0.0144	P	4.0	-0.5
5	☐	100.000	101.319	139044.84	0.1434	P	1.7	1.3
6	☐	200.000	199.350	273165.88	0.2817	P	2.7	-0.3

y = 0.0014 * x + 3.9001E-004
R = 1.0000
DL = 0.04714 ppb
BEC = 0.2764 ppb

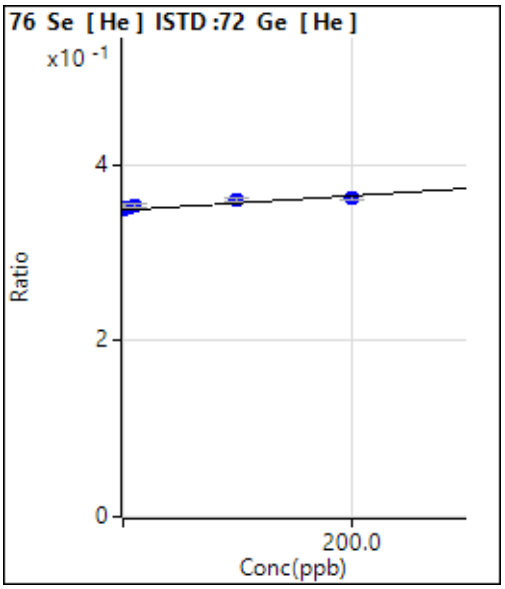
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1259563.94	0.3454	A	0.6	
2	☐	2.000	4.398	1254367.24	0.3459	A	0.7	119.9
3	☐	5.000	27.806	1242312.33	0.3483	A	0.2	456.1
4	☐	10.000	41.566	1230978.50	0.3498	A	0.1	315.7
5	☐	100.000	90.143	1205194.02	0.3549	A	0.6	-9.9
6	☐	200.000	202.756	1215354.33	0.3666	A	0.2	1.4

y = 1.0468E-004 * x + 0.3454
R = 0.9826
DL = 57.59 ppb
BEC = 3300 ppb

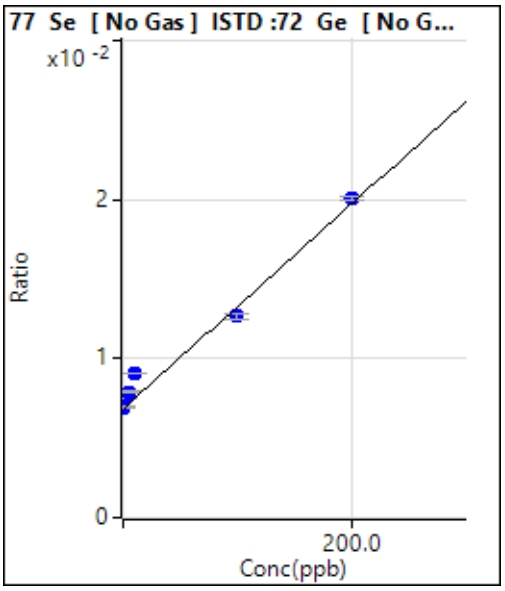
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366481.23	0.3486	P	1.1	
2	☐	2.000	48.090	369229.85	0.3526	P	1.5	2304.5
3	☐	5.000	36.512	363563.47	0.3516	P	1.1	630.2
4	☐	10.000	66.945	361524.51	0.3541	P	0.9	569.4
5	☐	100.000	154.505	350501.39	0.3614	P	1.2	54.5
6	☐	200.000	168.652	351611.58	0.3626	P	1.3	-15.7

y = 8.3210E-005 * x + 0.3486
R = 0.9063
DL = 135.9 ppb
BEC = 4189 ppb

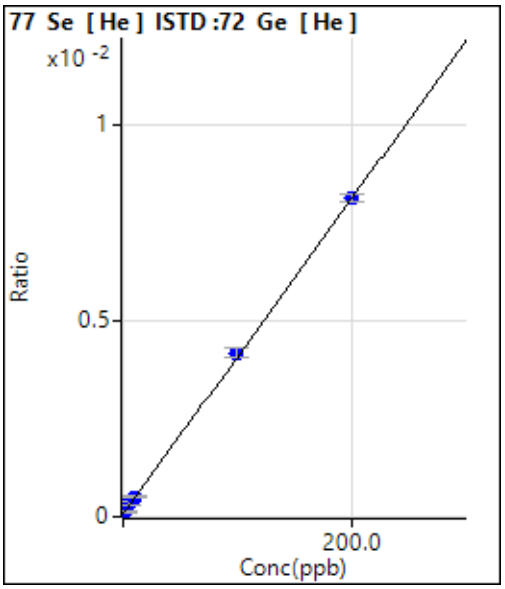
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25327.12	0.0069	P	0.3	
2	☐	2.000	9.861	27488.06	0.0076	P	1.8	393.0
3	☐	5.000	14.315	28049.40	0.0079	P	1.5	186.3
4	☐	10.000	32.965	31894.33	0.0091	P	1.0	229.6
5	☐	100.000	88.673	42934.63	0.0126	P	2.5	-11.3
6	☐	200.000	204.204	66498.56	0.0201	P	1.1	2.1

y = 6.4230E-005 * x + 0.0069
R = 0.9910
DL = 1.081 ppb
BEC = 108.1 ppb

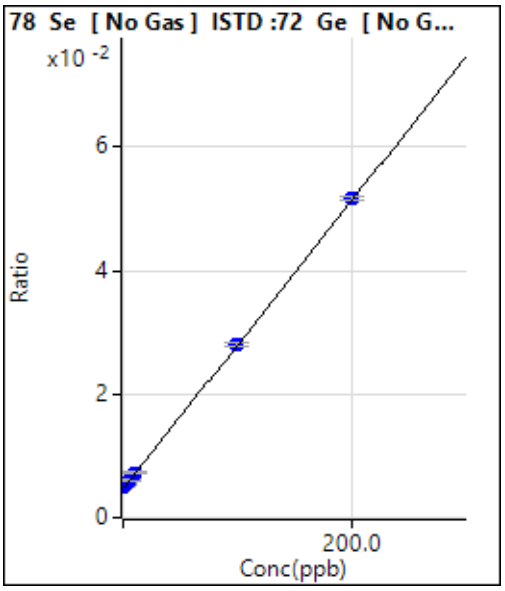
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.34	0.0001	P	54.3	
2	☐	2.000	0.708	143.34	0.0001	P	44.2	-64.6
3	☐	5.000	5.878	356.68	0.0003	P	18.0	17.6
4	☐	10.000	9.879	516.69	0.0005	P	6.1	-1.2
5	☐	100.000	101.057	4057.35	0.0042	P	5.6	1.1
6	☐	200.000	199.469	7902.42	0.0082	P	2.8	-0.3

y = 4.0319E-005 * x + 1.0794E-004
R = 0.9999
DL = 4.361 ppb
BEC = 2.677 ppb

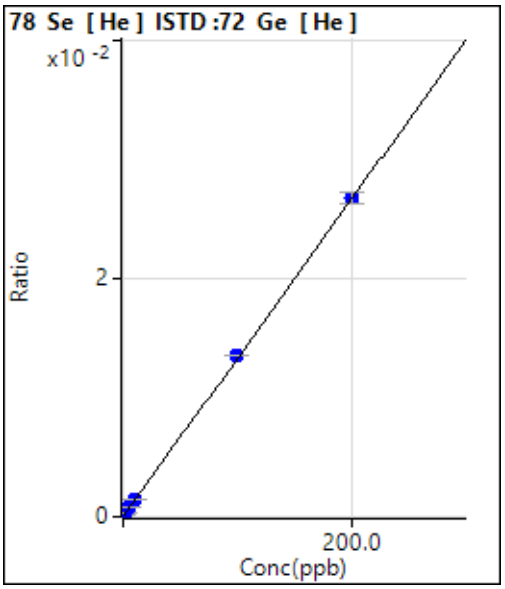
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17938.70	0.0049	P	2.2	
2	☐	2.000	2.233	19727.93	0.0054	P	1.5	11.6
3	☐	5.000	4.687	21440.55	0.0060	P	2.3	-6.3
4	☐	10.000	10.216	25691.13	0.0073	P	3.2	2.2
5	☐	100.000	98.802	94946.15	0.0280	P	2.2	-1.2
6	☐	200.000	200.594	171336.94	0.0517	P	1.7	0.3

y = 2.3317E-004 * x + 0.0049
R = 1.0000
DL = 1.385 ppb
BEC = 21.1 ppb

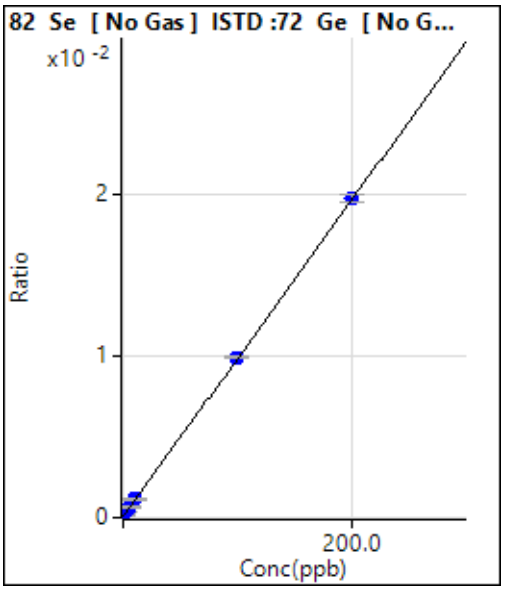
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147.33	0.0001	P	28.0	
2	☐	2.000	1.709	385.34	0.0004	P	3.2	-14.5
3	☐	5.000	4.697	792.69	0.0008	P	7.5	-6.1
4	☐	10.000	9.558	1444.08	0.0014	P	3.2	-4.4
5	☐	100.000	100.808	13173.03	0.0136	P	0.2	0.8
6	☐	200.000	199.628	25942.65	0.0268	P	4.2	-0.2

y = 1.3334E-004 * x + 1.4015E-004
R = 1.0000
DL = 0.8815 ppb
BEC = 1.051 ppb

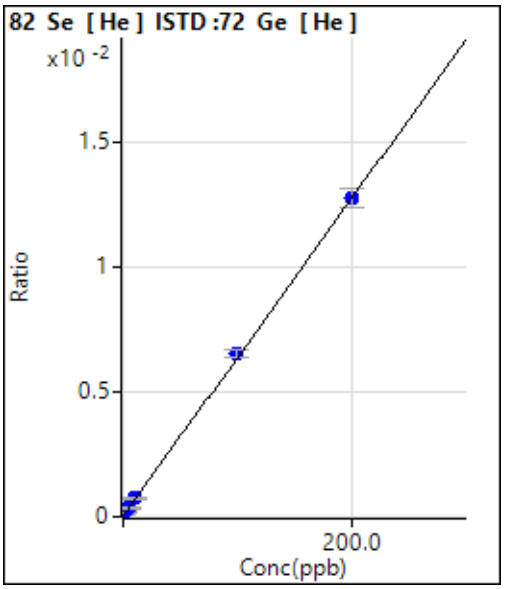
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	18.5	
2	☐	2.000	2.006	1333.43	0.0004	P	12.0	0.3
3	☐	5.000	4.866	2306.90	0.0006	P	2.9	-2.7
4	☐	10.000	10.165	4094.02	0.0012	P	9.7	1.7
5	☐	100.000	99.620	33601.89	0.0099	P	1.3	-0.4
6	☐	200.000	200.185	65326.83	0.0197	P	2.2	0.1

y = 9.7590E-005 * x + 1.7197E-004
R = 1.0000
DL = 0.9754 ppb
BEC = 1.762 ppb

Weight: <None>
Min Conc: <None>

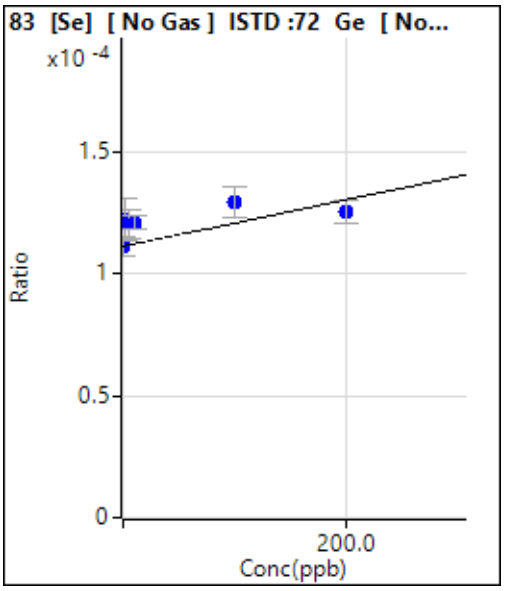


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.916	226.67	0.0002	P	27.7	-4.2
3	☐	5.000	3.976	360.01	0.0003	P	19.4	-20.5
4	☐	10.000	10.265	763.37	0.0007	P	10.9	2.6
5	☐	100.000	101.499	6348.26	0.0065	P	4.6	1.5
6	☐	200.000	199.264	12372.50	0.0128	P	5.9	-0.4

y = 6.3575E-005 * x + 9.5091E-005
R = 0.9999
DL = 0.4342 ppb
BEC = 1.496 ppb

Weight: <None>
Min Conc: <None>

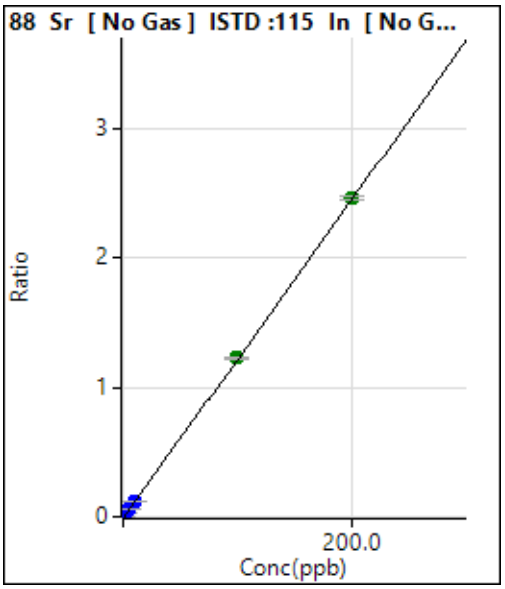
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	406.68	0.0001	P	7.4	
2	☐	2.000	112.119	443.35	0.0001	P	14.4	5506.0
3	☐	5.000	94.532	430.01	0.0001	P	10.1	1790.6
4	☐	10.000	101.445	426.68	0.0001	P	4.7	914.4
5	☐	100.000	188.560	440.02	0.0001	P	10.3	88.6
6	☐	200.000	147.808	416.68	0.0001	P	7.4	-26.1

y = 9.5946E-008 * x + 1.1150E-004
R = 0.6227
DL = 259.1 ppb
BEC = 1162 ppb

Weight: <None>
Min Conc: <None>

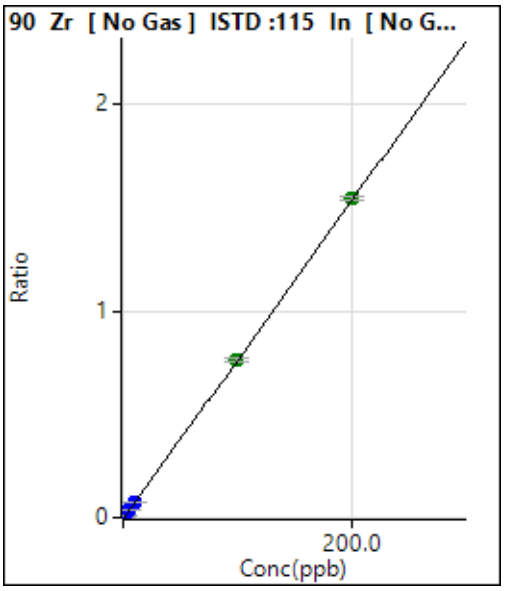


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3243.79	0.0006	P	2.4	
2	☐	2.000	1.891	121575.82	0.0239	P	2.9	-5.5
3	☐	5.000	4.814	297238.57	0.0598	P	2.9	-3.7
4	☐	10.000	9.788	598141.36	0.1209	P	1.3	-2.1
5	☐	100.000	99.672	5841576.58	1.2258	A	1.8	-0.3
6	☐	200.000	200.180	11477721.91	2.4614	A	1.3	0.1

y = 0.0123 * x + 6.3032E-004
R = 1.0000
DL = 0.003626 ppb
BEC = 0.05128 ppb

Weight: <None>
Min Conc: <None>

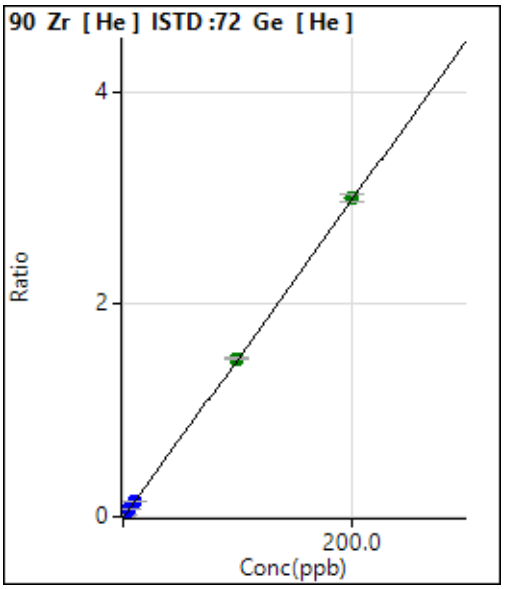
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1643.48	0.0003	P	3.6	
2	☐	2.000	1.530	61644.08	0.0121	P	2.9	-23.5
3	☐	5.000	4.318	166883.04	0.0336	P	2.5	-13.6
4	☐	10.000	9.245	353780.02	0.0715	P	1.5	-7.6
5	☐	100.000	99.045	3637456.72	0.7633	A	1.8	-1.0
6	☐	200.000	200.537	7205272.81	1.5452	A	1.0	0.3

y = 0.0077 * x + 3.1937E-004
R = 1.0000
DL = 0.004508 ppb
BEC = 0.04146 ppb

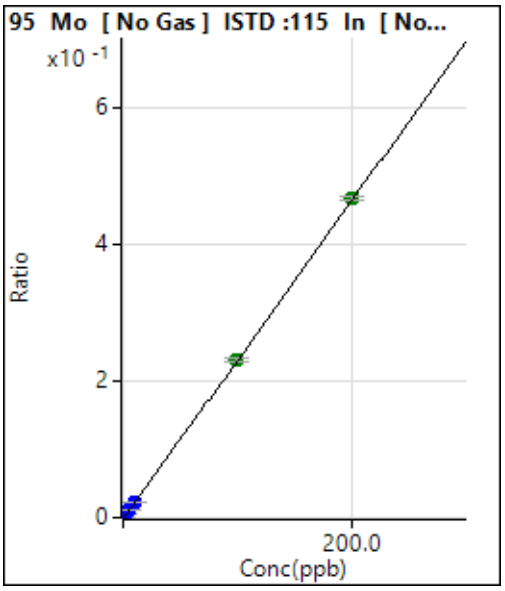
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0017	P	4.5	
2	☐	2.000	1.493	25133.68	0.0240	P	4.4	-25.3
3	☐	5.000	4.231	67156.83	0.0649	P	4.1	-15.4
4	☐	10.000	9.130	141066.41	0.1382	P	2.0	-8.7
5	☐	100.000	99.181	1439931.75	1.4848	A	1.4	-0.8
6	☐	200.000	200.477	2908314.44	2.9995	A	2.8	0.2

y = 0.0150 * x + 0.0017
R = 1.0000
DL = 0.01499 ppb
BEC = 0.1117 ppb

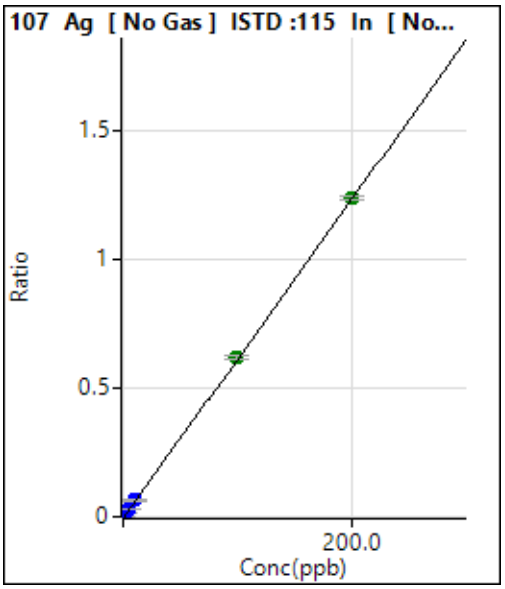
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	32.4	
2	☐	2.000	1.906	22796.24	0.0045	P	5.3	-4.7
3	☐	5.000	4.857	56414.97	0.0114	P	3.5	-2.9
4	☐	10.000	10.011	115525.56	0.0234	P	3.4	0.1
5	☐	100.000	98.826	1097333.92	0.2303	A	2.4	-1.2
6	☐	200.000	200.591	2179323.67	0.4674	A	0.9	0.3

y = 0.0023 * x + 3.6244E-005
R = 1.0000
DL = 0.01512 ppb
BEC = 0.01556 ppb

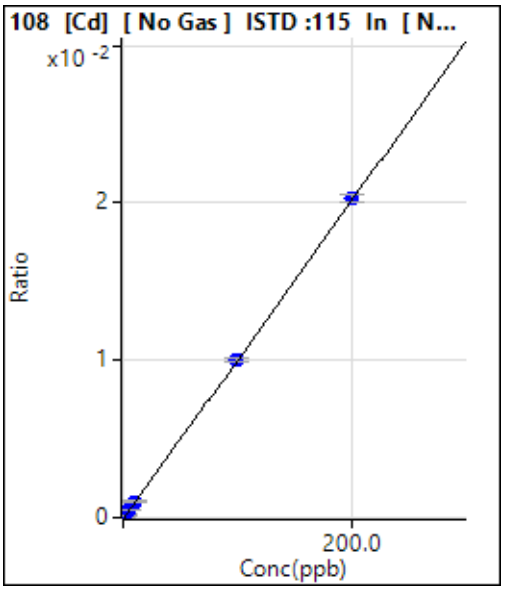
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0001	P	12.1	
2	☐	2.000	1.991	63075.50	0.0124	P	2.8	-0.4
3	☐	5.000	5.051	155559.92	0.0313	P	1.9	1.0
4	☐	10.000	10.310	315587.03	0.0638	P	2.2	3.1
5	☐	100.000	100.027	2947292.25	0.6185	A	1.7	0.0
6	☐	200.000	199.970	5765372.41	1.2364	A	1.3	0.0

y = 0.0062 * x + 7.1920E-005
R = 1.0000
DL = 0.004233 ppb
BEC = 0.01163 ppb

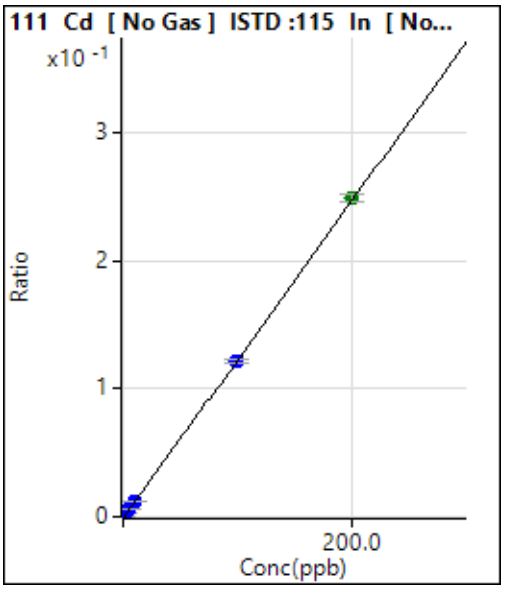
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.961	1023.40	0.0002	P	17.8	-1.9
3	☐	5.000	5.047	2550.31	0.0005	P	3.1	0.9
4	☐	10.000	10.091	5061.05	0.0010	P	7.2	0.9
5	☐	100.000	98.947	47708.71	0.0100	P	1.9	-1.1
6	☐	200.000	200.521	94607.17	0.0203	P	2.5	0.3

y = 1.0116E-004 * x + 2.5896E-006
R = 1.0000
DL = 0.06651 ppb
BEC = 0.0256 ppb

Weight: <None>
Min Conc: <None>

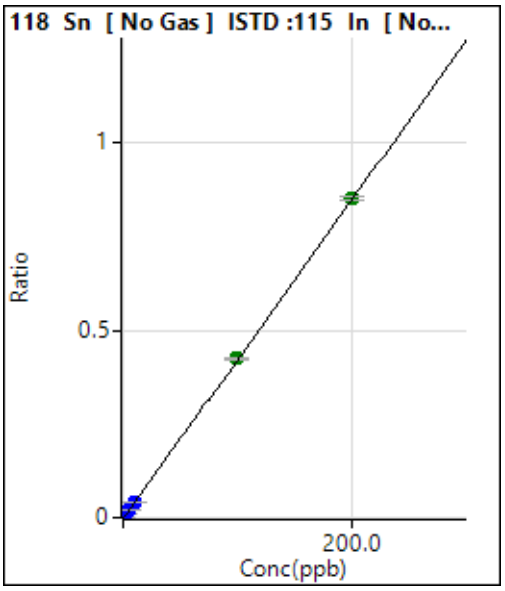


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.97	0.0000	P	-2100.	
2	☐	2.000	1.896	11948.48	0.0023	P	7.1	-5.2
3	☐	5.000	4.998	30742.46	0.0062	P	3.3	0.0
4	☐	10.000	9.862	60368.26	0.0122	P	1.0	-1.4
5	☐	100.000	98.072	578468.91	0.1214	P	2.0	-1.9
6	☐	200.000	200.972	1160024.12	0.2488	A	2.0	0.5

y = 0.0012 * x - 1.9229E-007
R = 0.9999
DL = 0.009788 ppb
BEC = -0.0001553 ppb

Weight: <None>
Min Conc: <None>

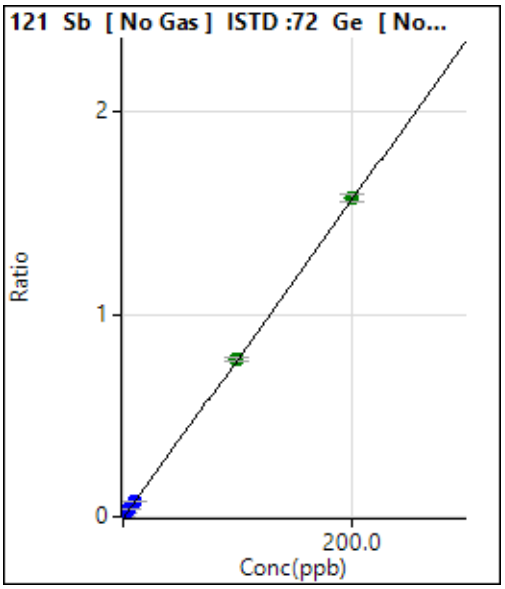
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6208.23	0.0012	P	10.1	
2	☐	2.000	1.930	47916.62	0.0094	P	2.9	-3.5
3	☐	5.000	4.911	109703.60	0.0221	P	2.7	-1.8
4	☐	10.000	9.865	213280.86	0.0431	P	1.2	-1.4
5	☐	100.000	99.758	2025766.32	0.4251	A	1.4	-0.2
6	☐	200.000	200.131	3971292.65	0.8516	A	1.5	0.1

y = 0.0042 * x + 0.0012
R = 1.0000
DL = 0.08604 ppb
BEC = 0.284 ppb

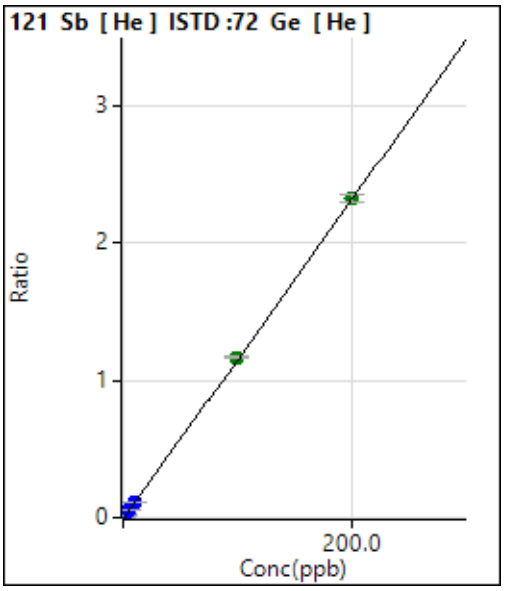
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.36	0.0002	P	4.7	
2	☐	2.000	1.887	54475.33	0.0150	P	0.3	-5.7
3	☐	5.000	4.871	137223.71	0.0385	P	1.7	-2.6
4	☐	10.000	9.875	273761.82	0.0778	P	2.2	-1.2
5	☐	100.000	99.131	2646404.39	0.7792	A	2.2	-0.9
6	☐	200.000	200.445	5221636.07	1.5754	A	2.3	0.2

y = 0.0079 * x + 1.9291E-004
R = 1.0000
DL = 0.003448 ppb
BEC = 0.02455 ppb

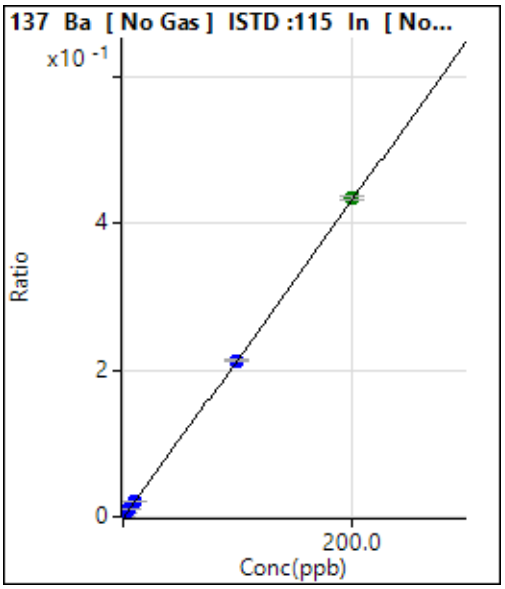
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	22.2	
2	☐	2.000	1.797	22202.22	0.0212	P	2.0	-10.2
3	☐	5.000	4.737	57270.27	0.0554	P	0.6	-5.3
4	☐	10.000	9.812	116754.38	0.1144	P	2.3	-1.9
5	☐	100.000	100.109	1128856.18	1.1640	A	1.4	0.1
6	☐	200.000	199.963	2254087.41	2.3247	A	2.2	0.0

y = 0.0116 * x + 3.1689E-004
R = 1.0000
DL = 0.01817 ppb
BEC = 0.02726 ppb

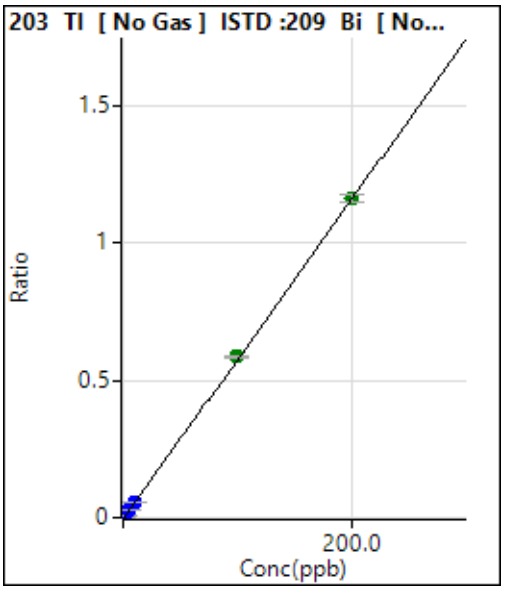
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	813.37	0.0002	P	7.2	
2	☐	2.000	2.109	24028.92	0.0047	P	1.4	5.5
3	☐	5.000	4.877	53174.64	0.0107	P	2.1	-2.5
4	☐	10.000	9.835	105908.60	0.0214	P	1.1	-1.7
5	☐	100.000	98.443	1014679.88	0.2129	P	1.2	-1.6
6	☐	200.000	200.789	2024538.35	0.4341	A	1.4	0.4

y = 0.0022 * x + 1.5806E-004
R = 1.0000
DL = 0.01589 ppb
BEC = 0.07313 ppb

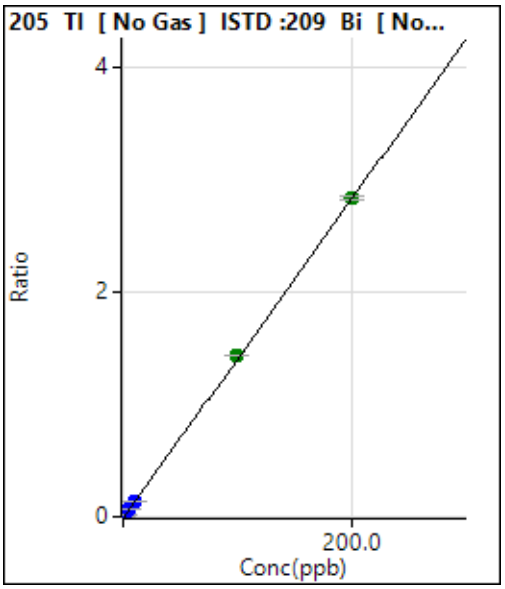
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	730.04	0.0001	P	15.1	
2	☐	2.000	1.652	53607.41	0.0098	P	0.6	-17.4
3	☐	5.000	4.842	152701.87	0.0284	P	0.3	-3.2
4	☐	10.000	9.457	296169.43	0.0552	P	1.2	-5.4
5	☐	100.000	100.622	3027705.58	0.5865	A	0.6	0.6
6	☐	200.000	199.724	5874836.16	1.1641	A	2.2	-0.1

y = 0.0058 * x + 1.3153E-004
R = 1.0000
DL = 0.01024 ppb
BEC = 0.02257 ppb

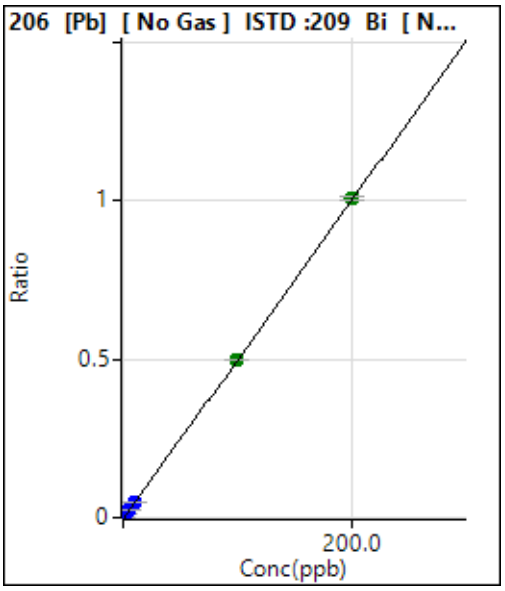
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1996.86	0.0004	P	6.0	
2	☐	2.000	1.634	129578.22	0.0236	P	3.2	-18.3
3	☐	5.000	4.699	361702.04	0.0672	P	1.9	-6.0
4	☐	10.000	9.227	705021.99	0.1315	P	0.9	-7.7
5	☐	100.000	100.820	7399073.85	1.4334	A	0.7	0.8
6	☐	200.000	199.640	14322744.79	2.8379	A	1.7	-0.2

y = 0.0142 * x + 3.5987E-004
R = 1.0000
DL = 0.004558 ppb
BEC = 0.02532 ppb

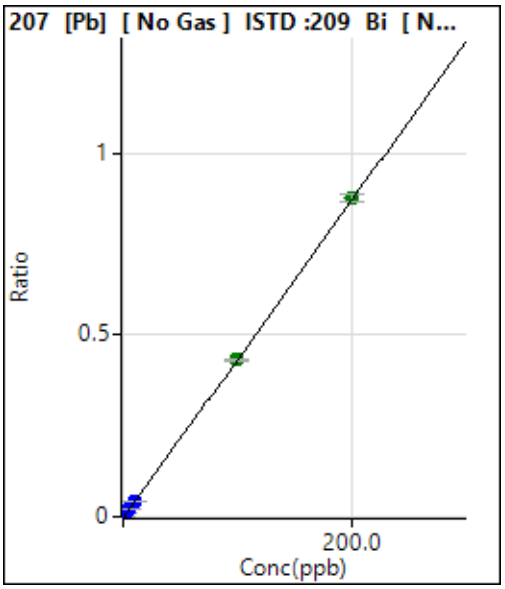
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.43	0.0002	P	17.3	
2	☐	2.000	1.893	53503.70	0.0097	P	2.2	-5.3
3	☐	5.000	4.873	133113.80	0.0247	P	1.9	-2.5
4	☐	10.000	9.940	269069.84	0.0502	P	0.8	-0.6
5	☐	100.000	99.279	2577457.46	0.4993	A	0.5	-0.7
6	☐	200.000	200.368	5084786.38	1.0075	A	1.5	0.2

y = 0.0050 * x + 2.1879E-004
R = 1.0000
DL = 0.02254 ppb
BEC = 0.04352 ppb

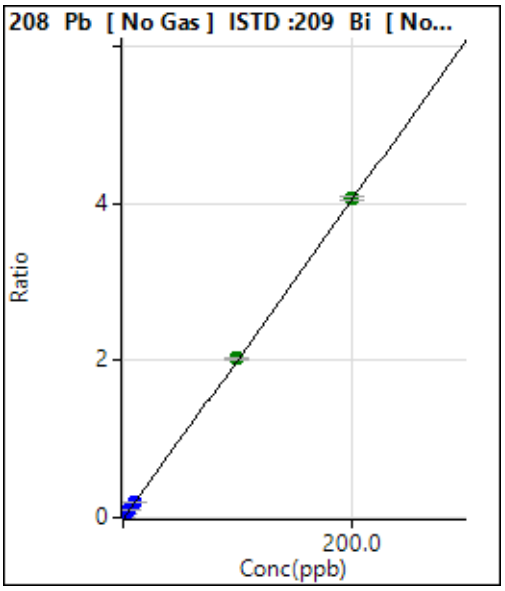
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.81	0.0002	P	13.2	
2	☐	2.000	1.871	46014.07	0.0084	P	0.7	-6.4
3	☐	5.000	4.952	117636.39	0.0218	P	1.0	-1.0
4	☐	10.000	9.948	234132.76	0.0437	P	1.1	-0.5
5	☐	100.000	98.923	2232702.21	0.4325	A	1.1	-1.1
6	☐	200.000	200.543	4424276.08	0.8766	A	1.9	0.3

y = 0.0044 * x + 1.9776E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.04525 ppb

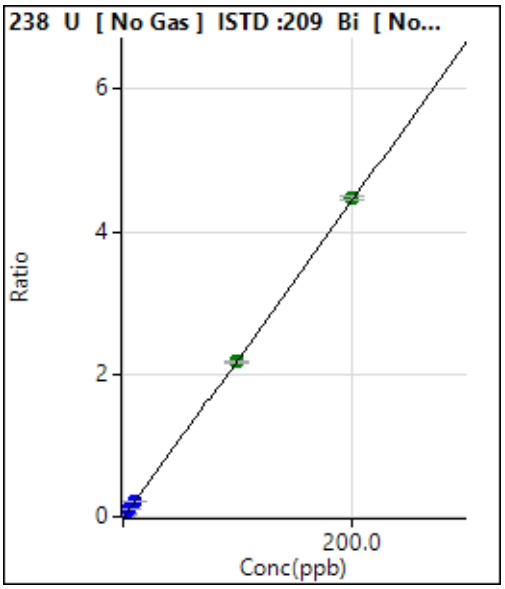
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4787.19	0.0009	P	8.1	
2	☐	2.000	1.872	213589.44	0.0389	P	2.1	-6.4
3	☐	5.000	4.840	534140.95	0.0992	P	1.3	-3.2
4	☐	10.000	9.814	1073244.63	0.2002	P	0.8	-1.9
5	☐	100.000	99.517	10438210.00	2.0221	A	1.1	-0.5
6	☐	200.000	200.256	20531264.80	4.0681	A	1.7	0.1

y = 0.0203 * x + 8.6300E-004
R = 1.0000
DL = 0.01029 ppb
BEC = 0.04249 ppb

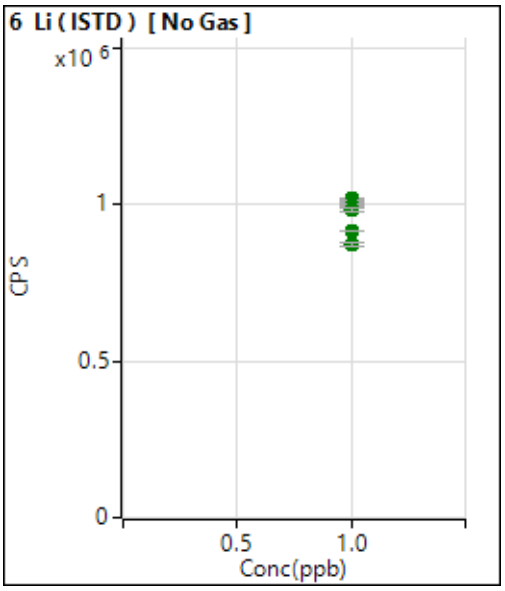
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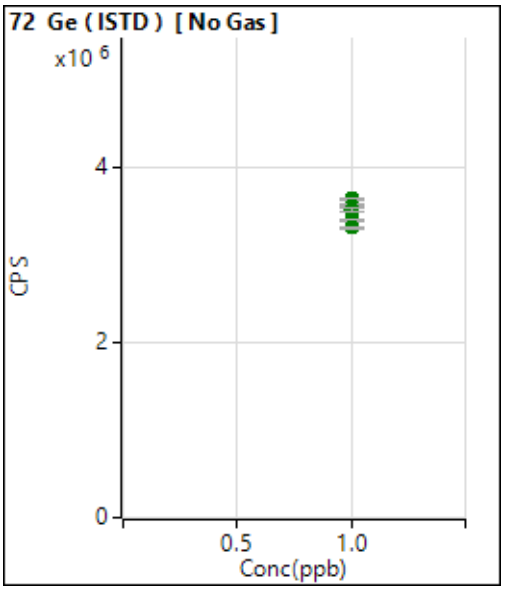
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3160.47	0.0006	P	6.0	
2	☐	2.000	1.778	220531.44	0.0401	P	2.0	-11.1
3	☐	5.000	4.627	557513.72	0.1035	P	2.1	-7.5
4	☐	10.000	9.359	1119490.77	0.2088	P	1.0	-6.4
5	☐	100.000	98.013	11260761.50	2.1814	A	1.3	-2.0
6	☐	200.000	201.037	22578060.50	4.4737	A	1.7	0.5

y = 0.0223 * x + 5.6967E-004
R = 0.9999
DL = 0.004613 ppb
BEC = 0.0256 ppb

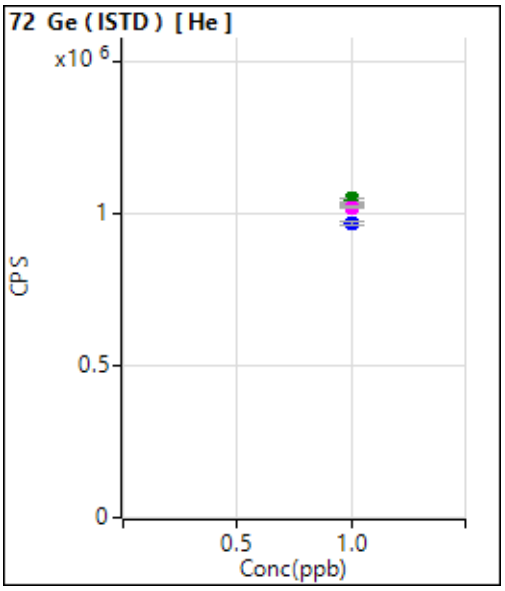
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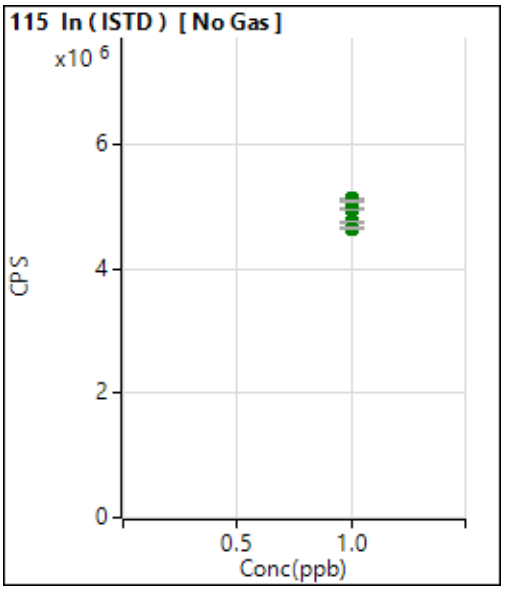
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1020039.89		A	0.1	
2	☐	1.000		1010092.07		A	0.4	
3	☐	1.000		997164.74		A	0.4	
4	☐	1.000		983995.18		A	0.9	
5	☐	1.000		914781.54		A	0.5	
6	☐	1.000		872359.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3646514.53		A	0.5	
2	☐	1.000		3626668.49		A	0.5	
3	☐	1.000		3566538.07		A	0.7	
4	☐	1.000		3519434.43		A	1.0	
5	☐	1.000		3396379.22		A	0.5	
6	☐	1.000		3314861.72		A	0.7	

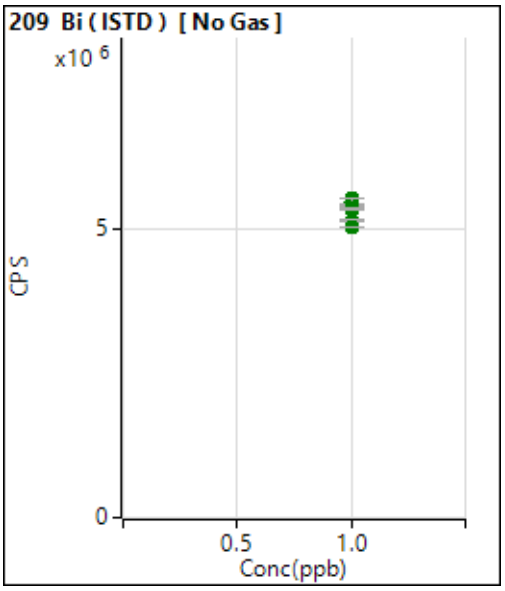


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1051401.00		A	0.4	
2	☐	1.000		1047146.91		A	1.1	
3	☐	1.000		1034070.84		A	0.7	
4	☐	1.000		1020836.86		M	0.5	
5	☐	1.000		969884.26		P	1.3	
6	☐	1.000		969784.23		P	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5146220.51		A	0.4	
2	☐	1.000		5093500.24		A	0.4	
3	☐	1.000		4969773.97		A	0.3	
4	☐	1.000		4945533.58		A	0.0	
5	☐	1.000		4765147.85		A	0.4	
6	☐	1.000		4662977.46		A	0.7	

Calibration for 140_ICV.d



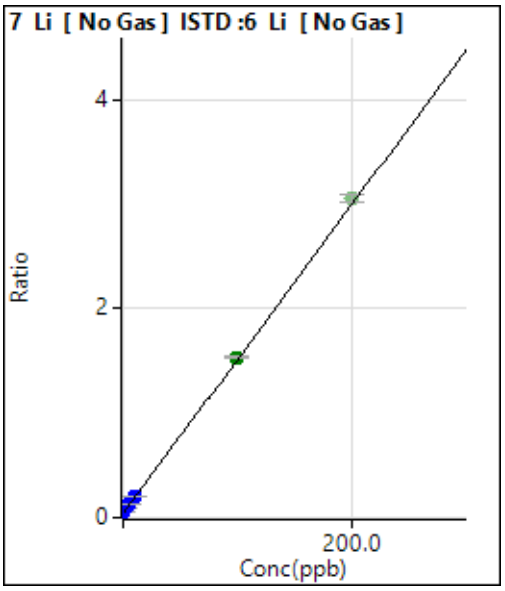
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5548360.75		A	0.4	
2	☐	1.000		5494022.21		A	1.5	
3	☐	1.000		5385780.54		A	0.5	
4	☐	1.000		5360983.46		A	0.5	
5	☐	1.000		5161866.80		A	0.7	
6	☐	1.000		5046773.47		A	0.6	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

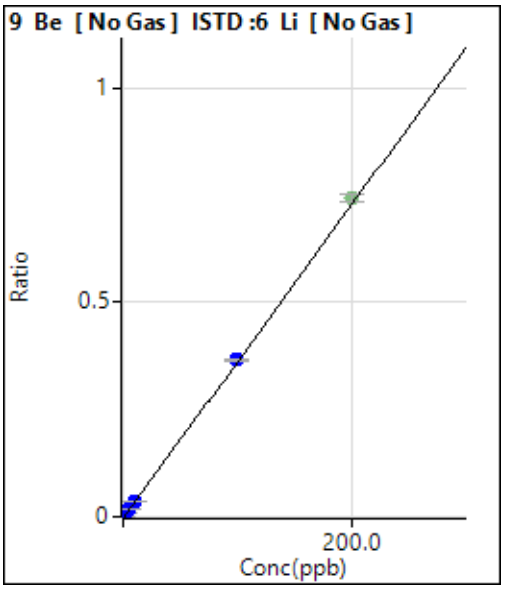
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

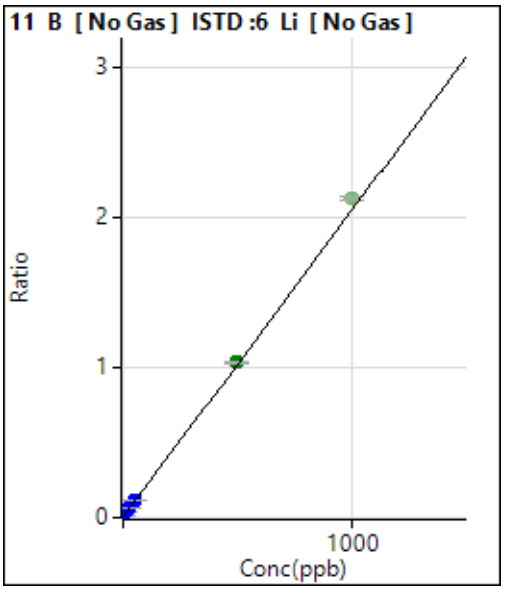


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

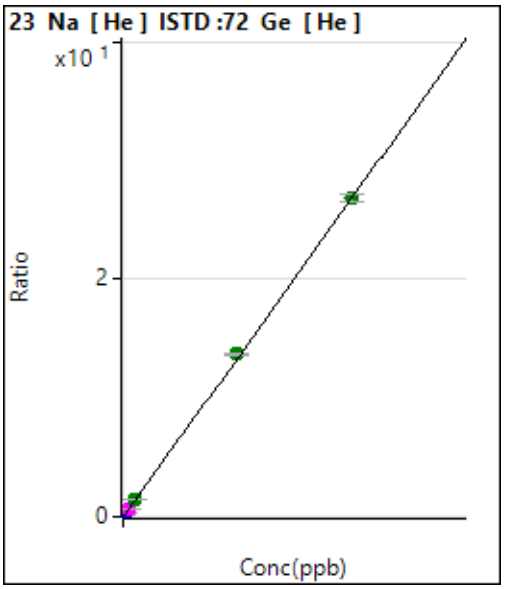
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

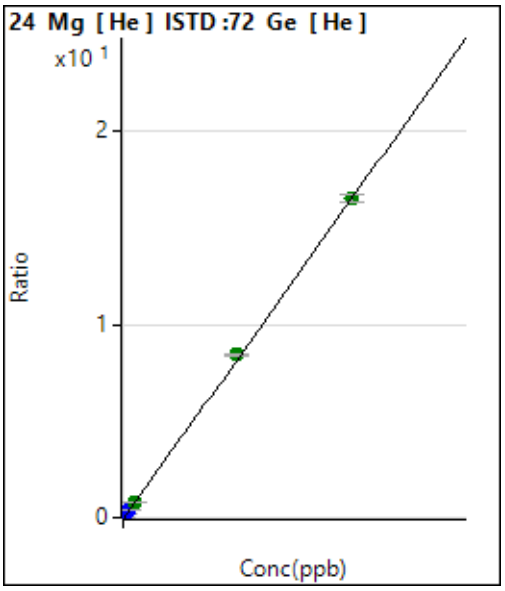


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

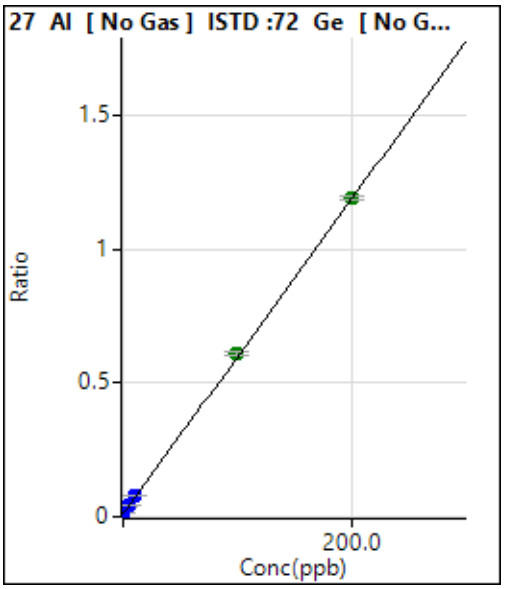
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

Weight: <None>
Min Conc: <None>

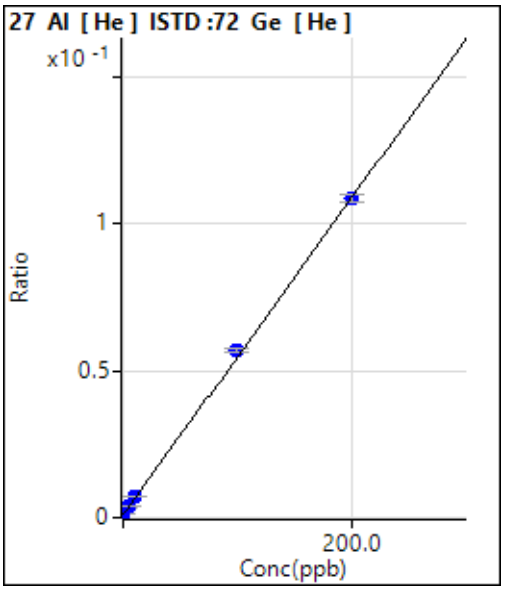


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

Weight: <None>
Min Conc: <None>

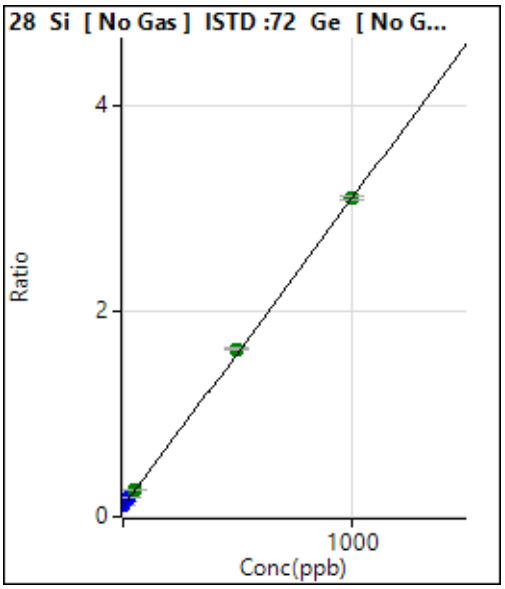
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

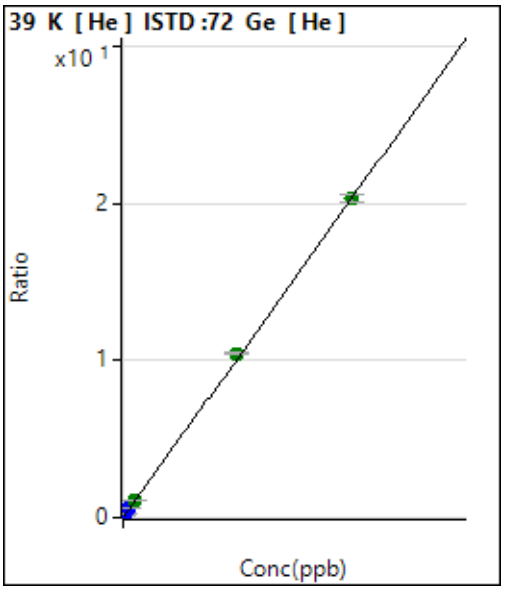


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

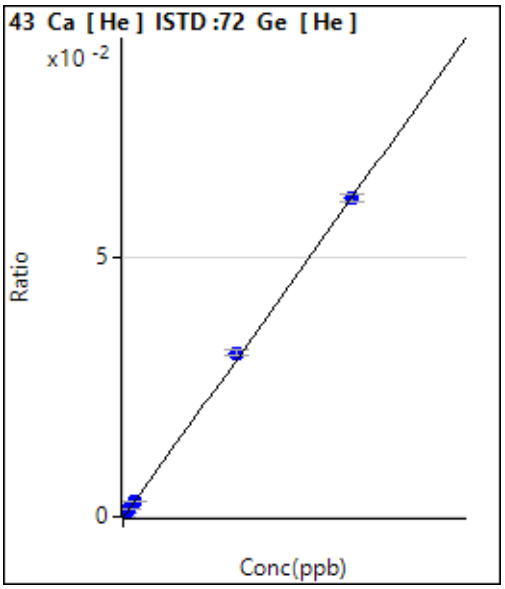
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

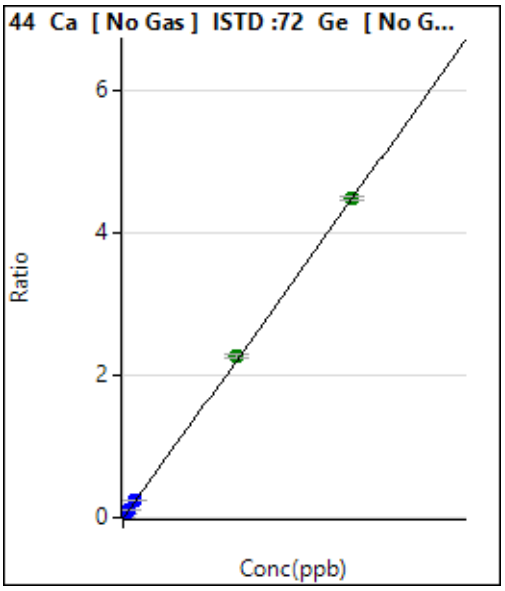


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

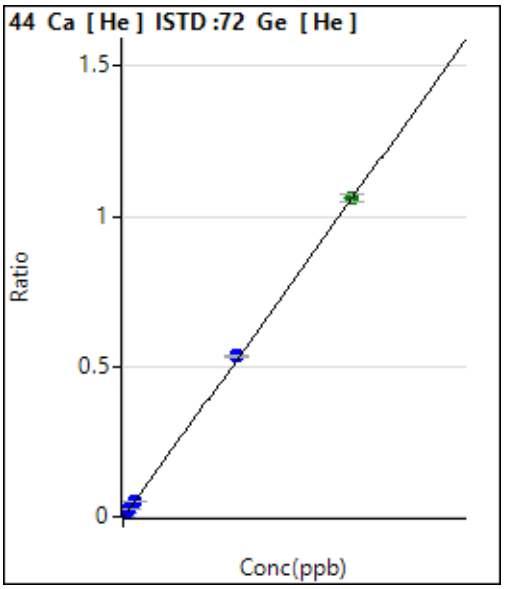
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

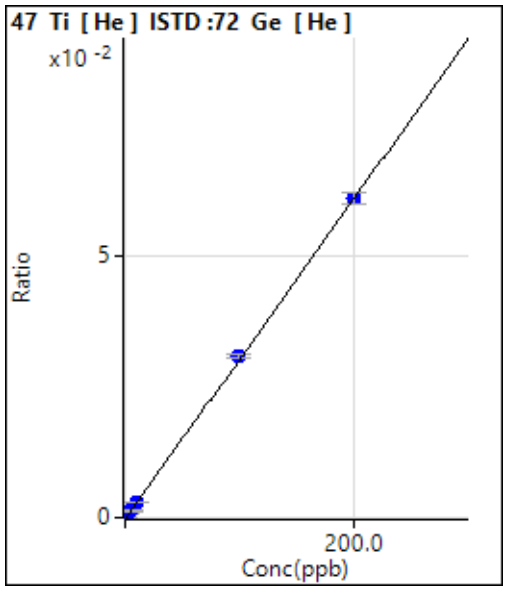
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

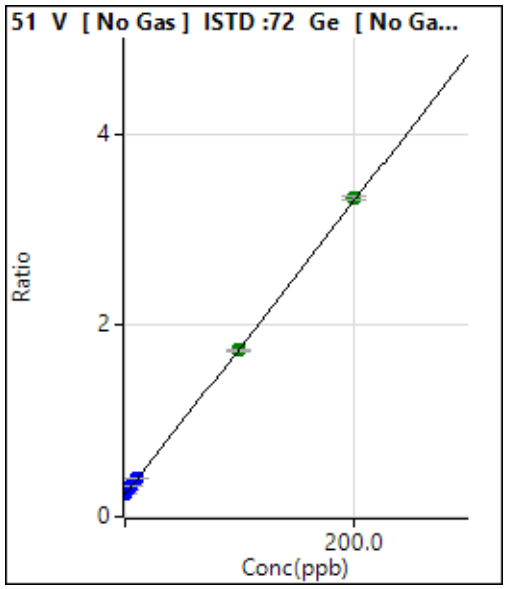
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

Weight: <None>
Min Conc: <None>

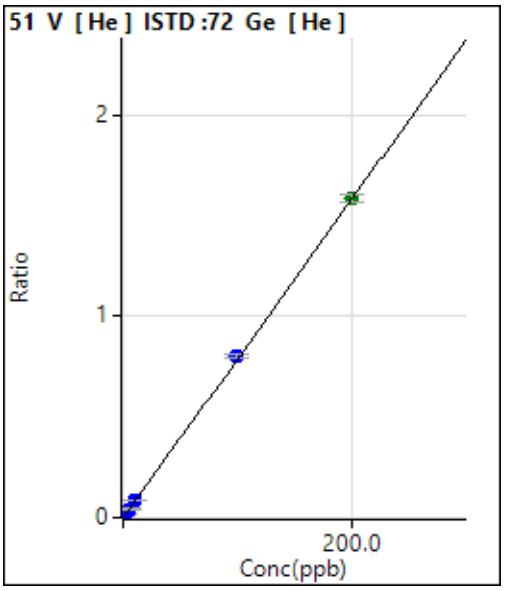


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

Weight: <None>
Min Conc: <None>

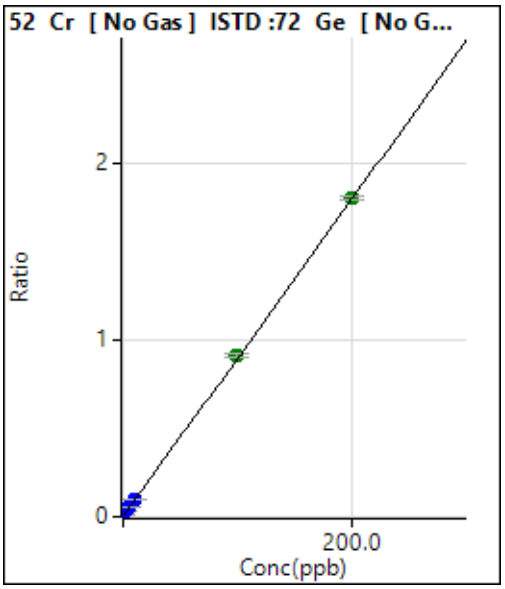
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

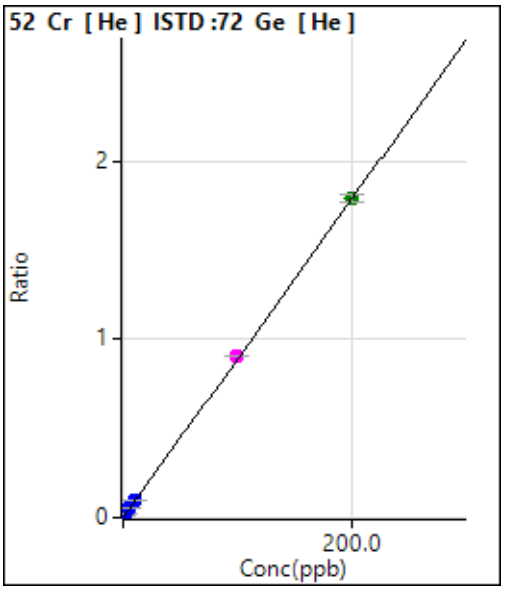


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

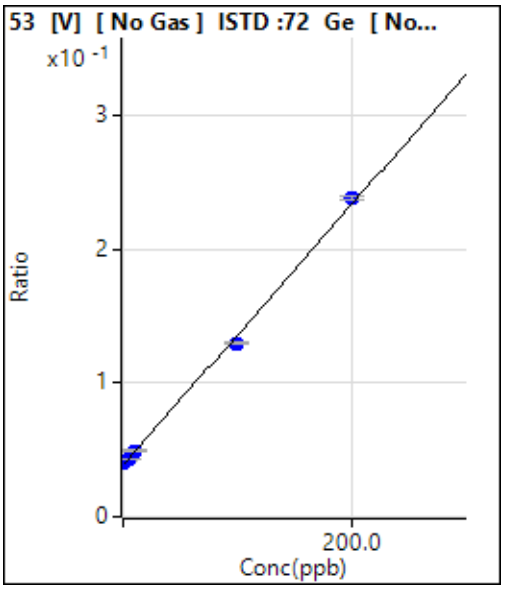
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

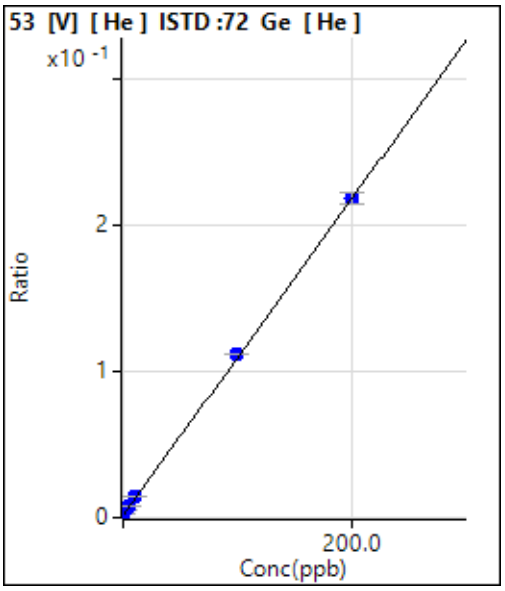
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

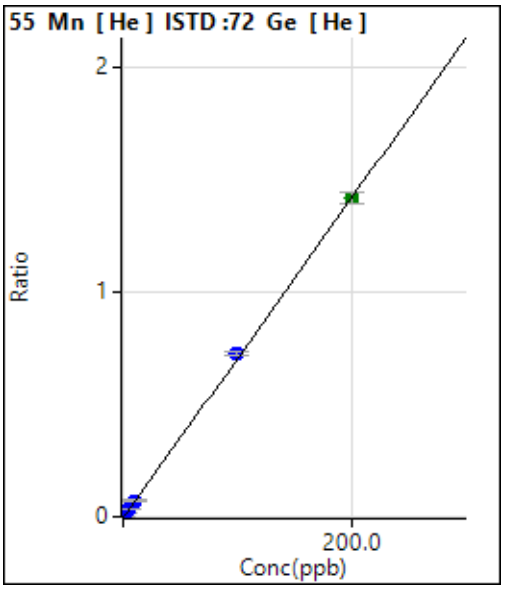
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

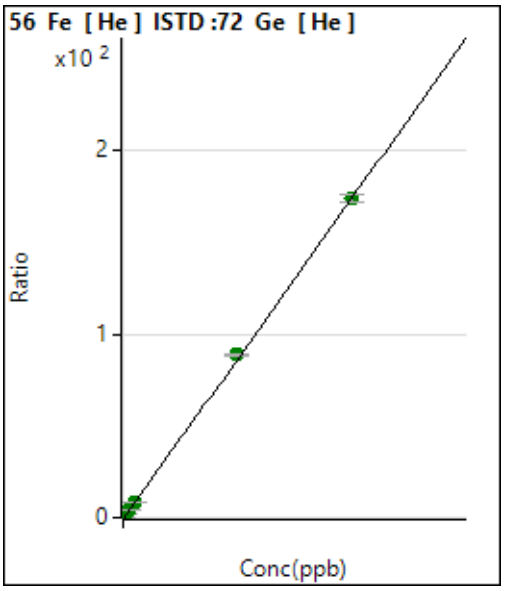


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

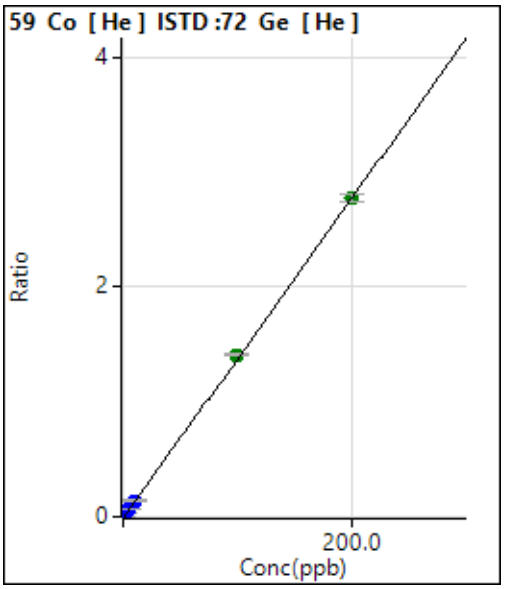
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

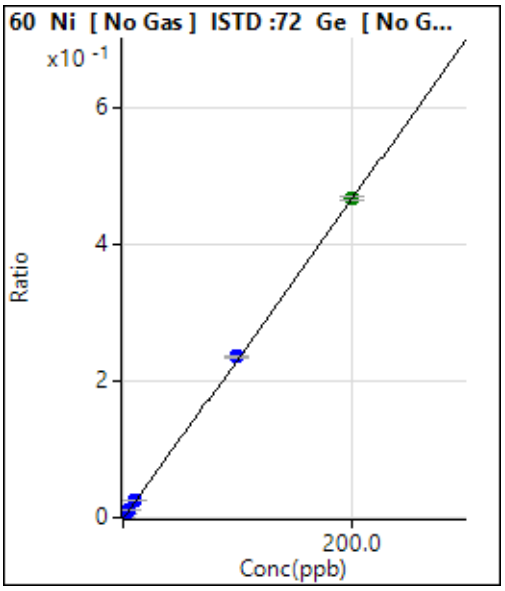


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

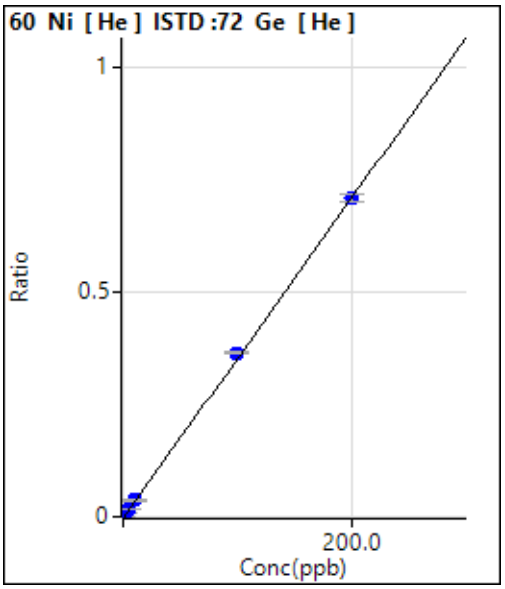
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

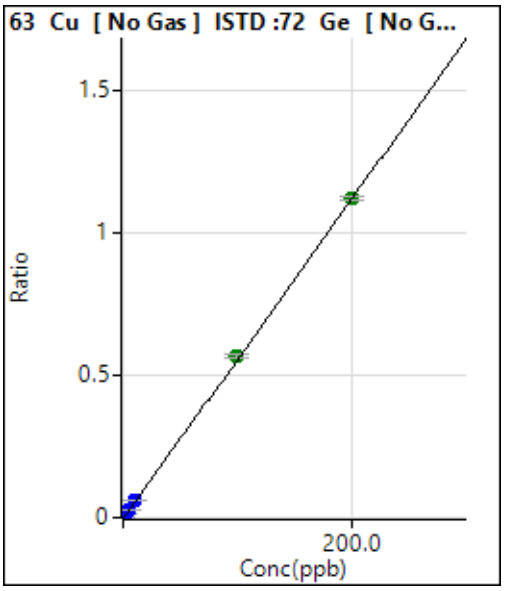


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

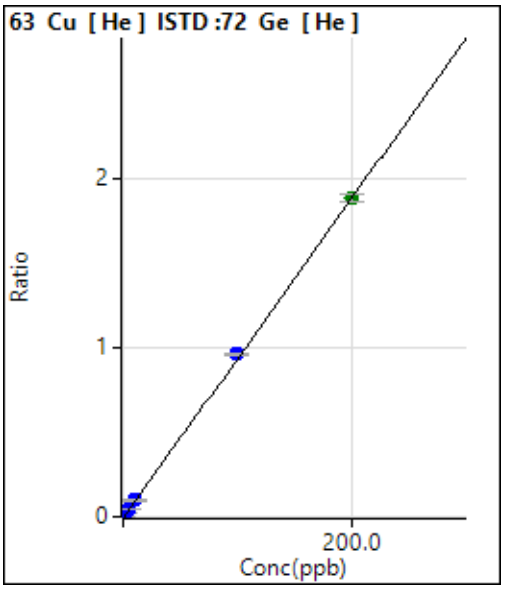
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

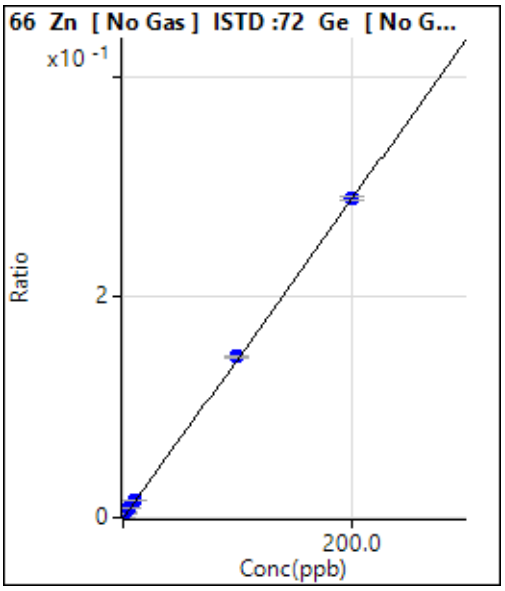


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

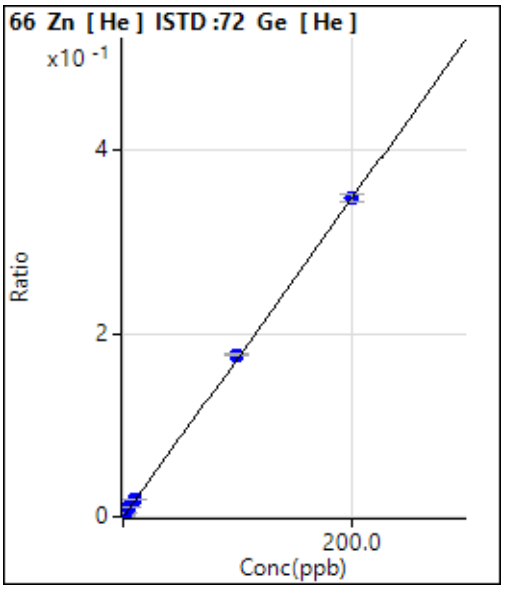
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

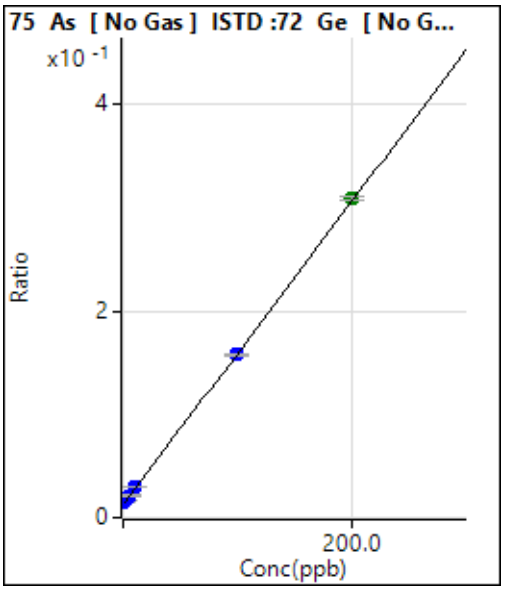


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

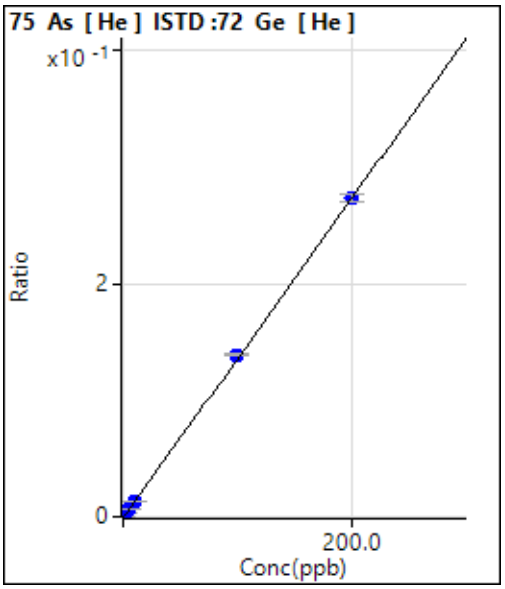
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

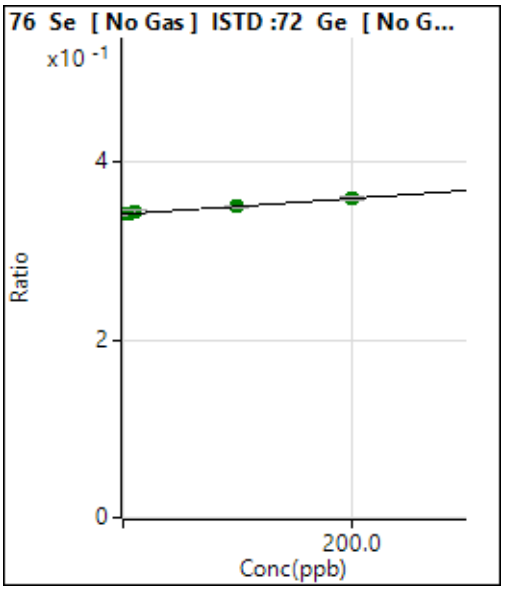


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

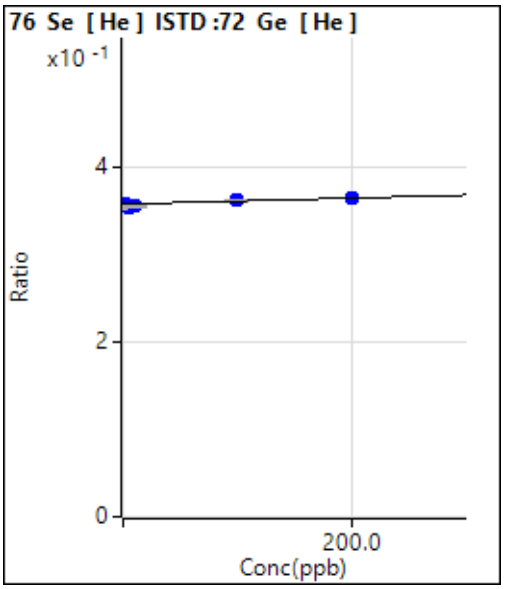
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

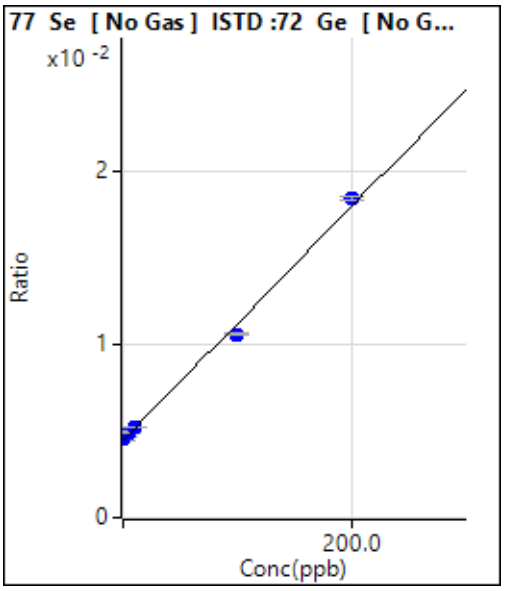


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

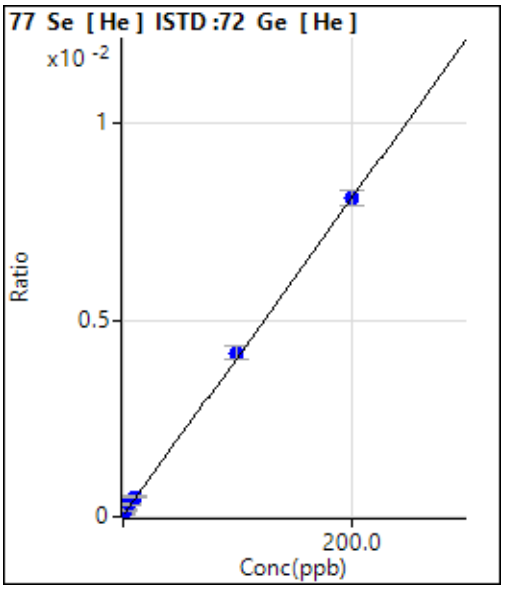
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

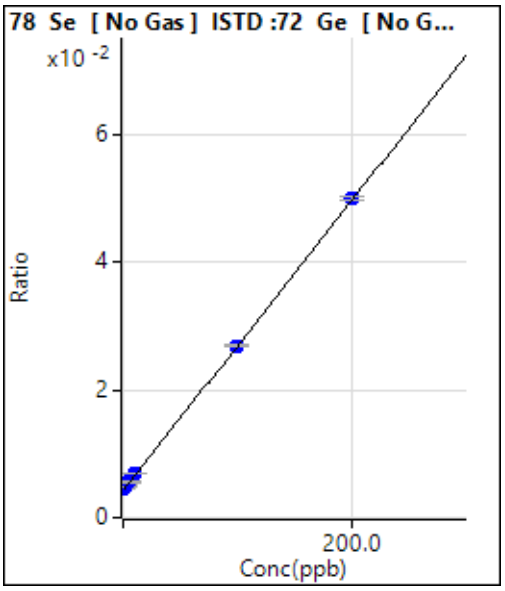


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

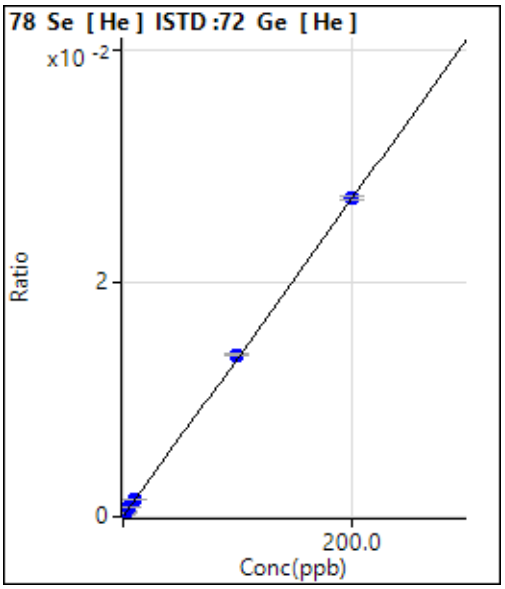
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

Weight: <None>
Min Conc: <None>

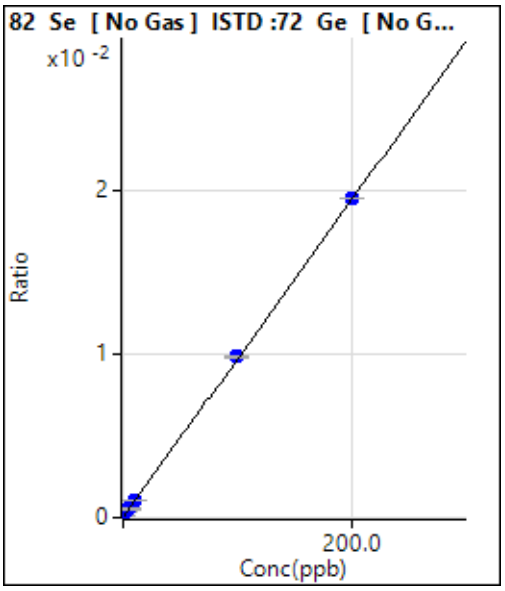


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

Weight: <None>
Min Conc: <None>

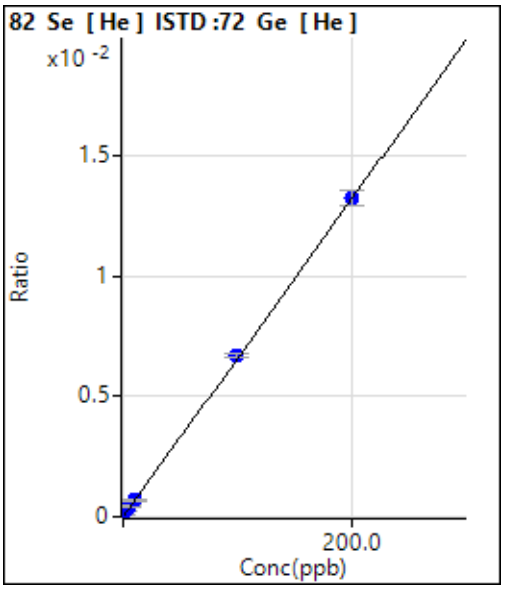
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

Weight: <None>
Min Conc: <None>

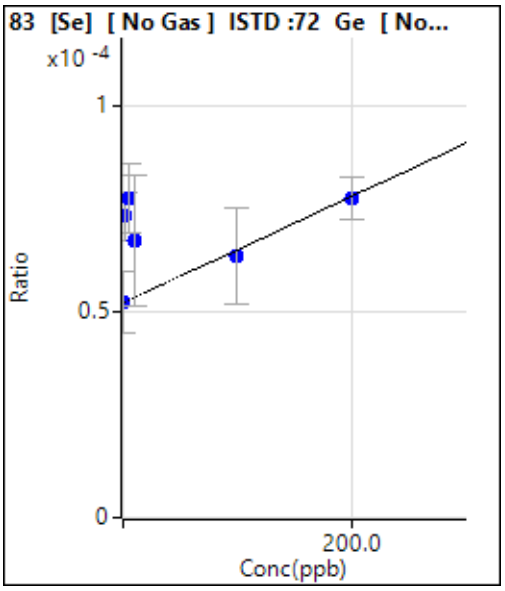


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

Weight: <None>
Min Conc: <None>

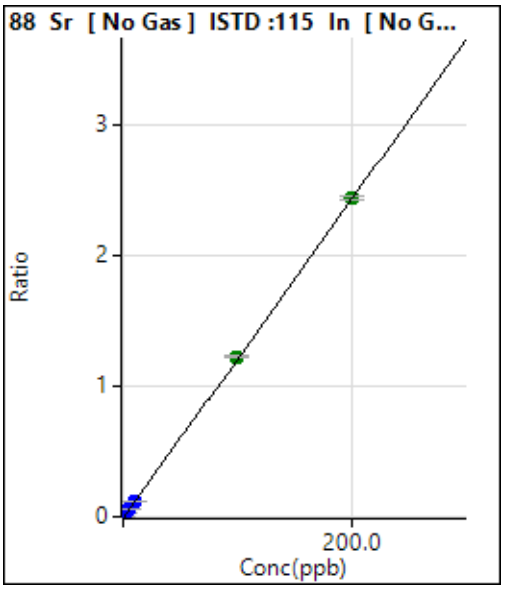
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

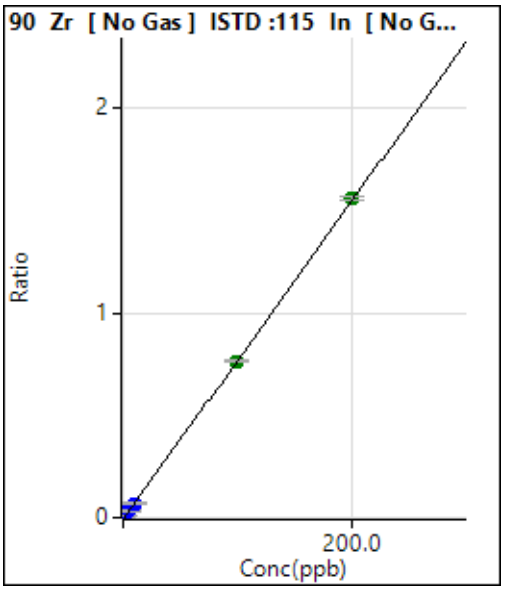


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

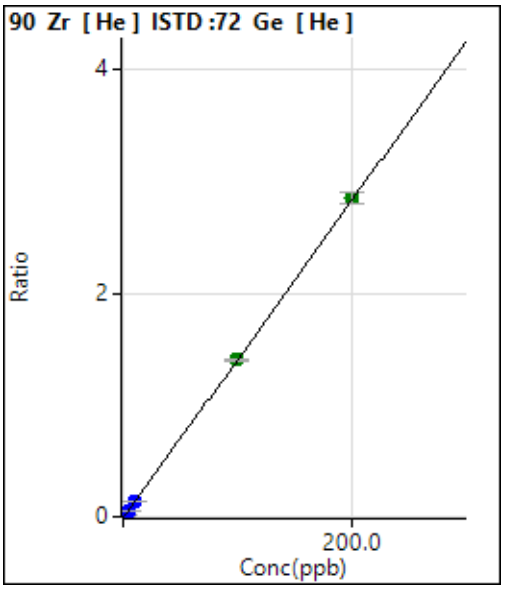
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

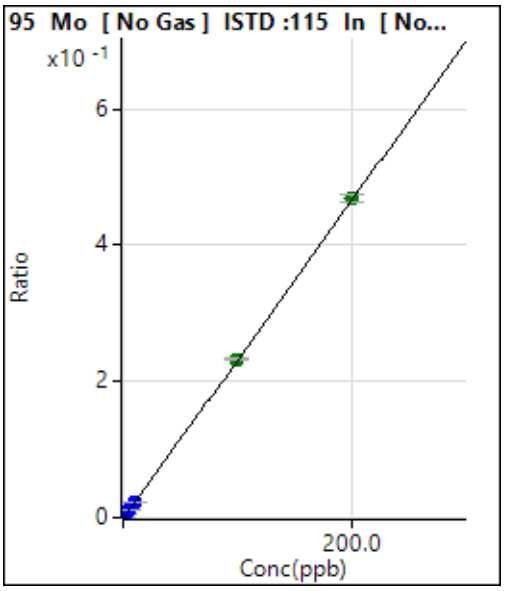


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

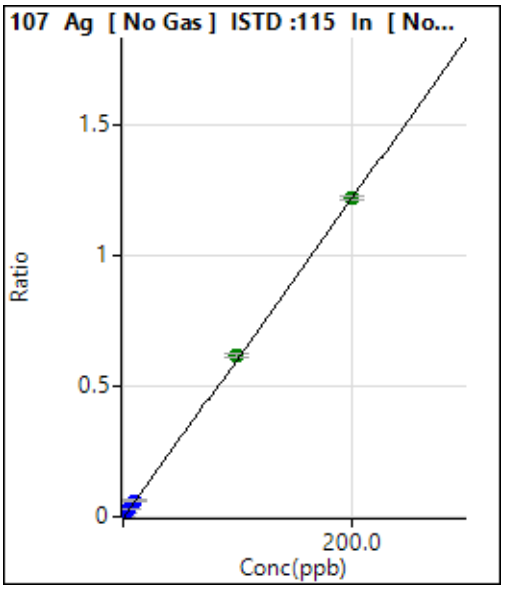
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

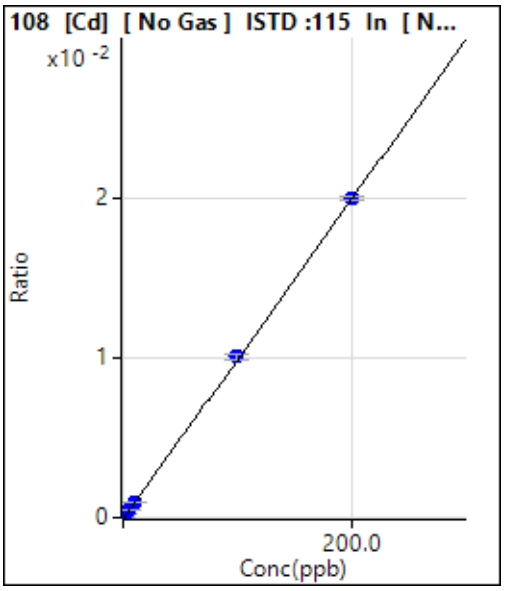
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

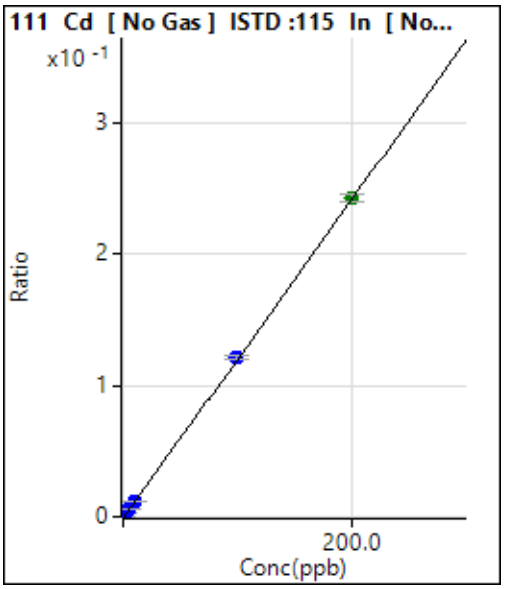
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

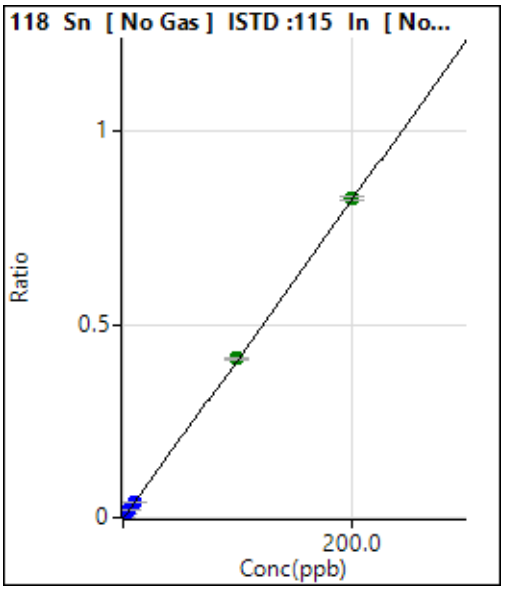


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

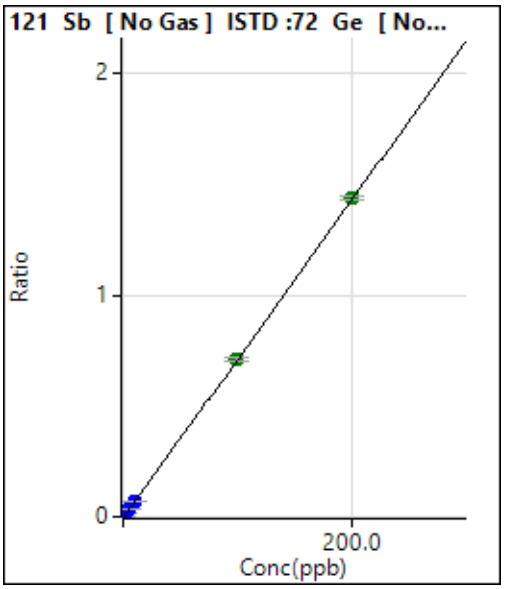
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

Weight: <None>
Min Conc: <None>

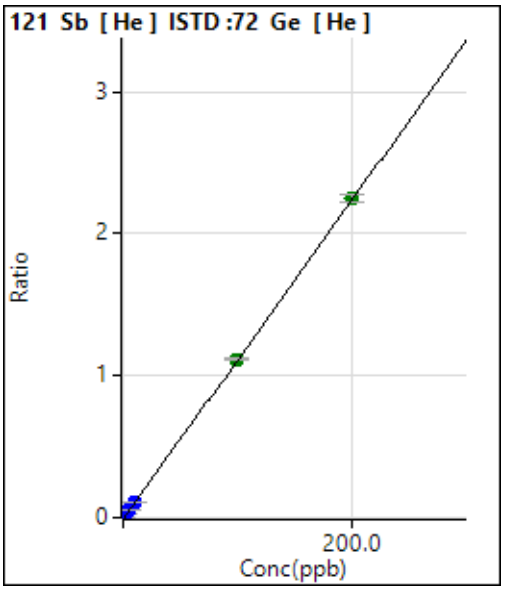


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

Weight: <None>
Min Conc: <None>

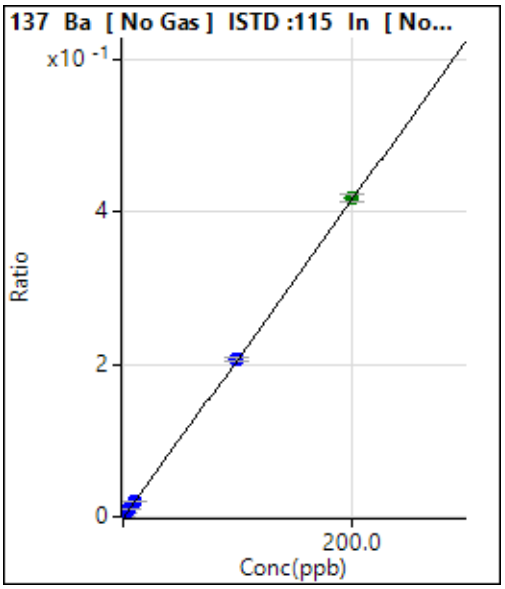
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

Weight: <None>
Min Conc: <None>

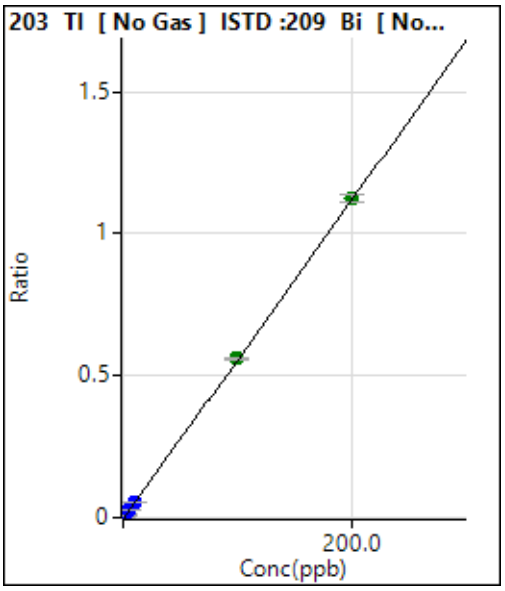


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

Weight: <None>
Min Conc: <None>

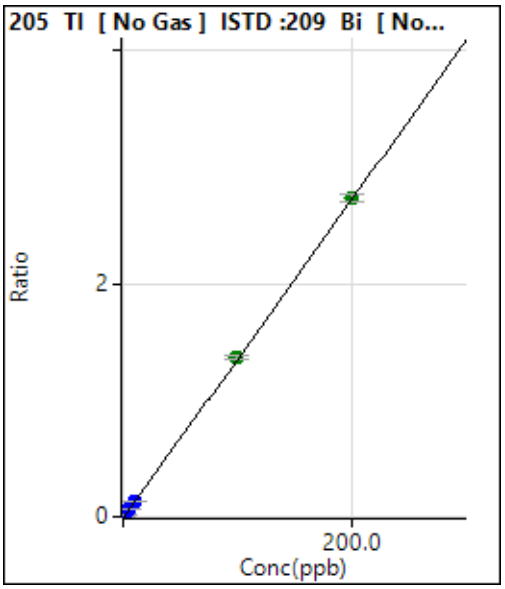
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

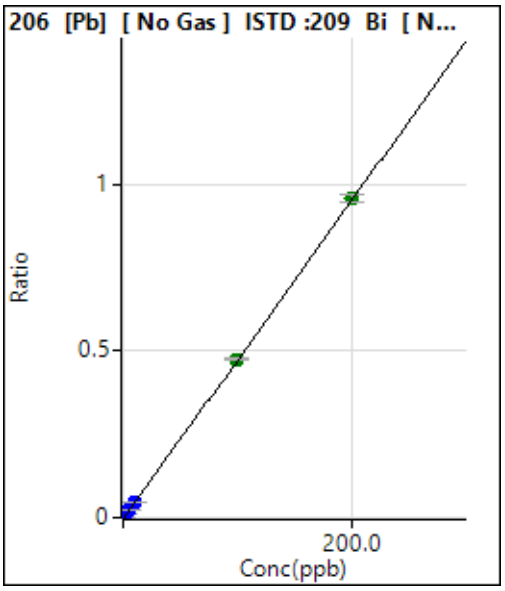


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

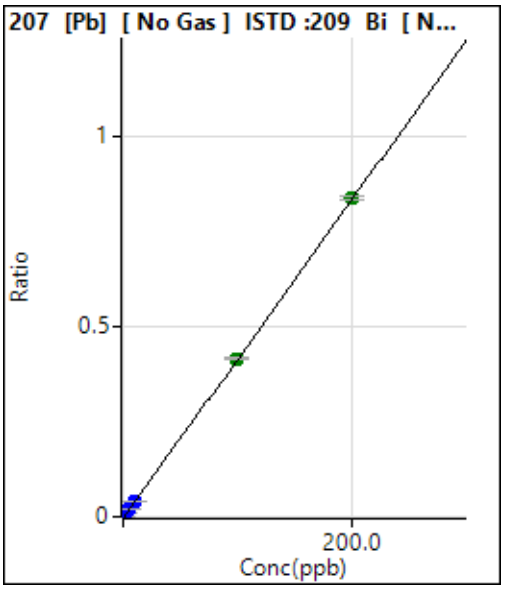
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

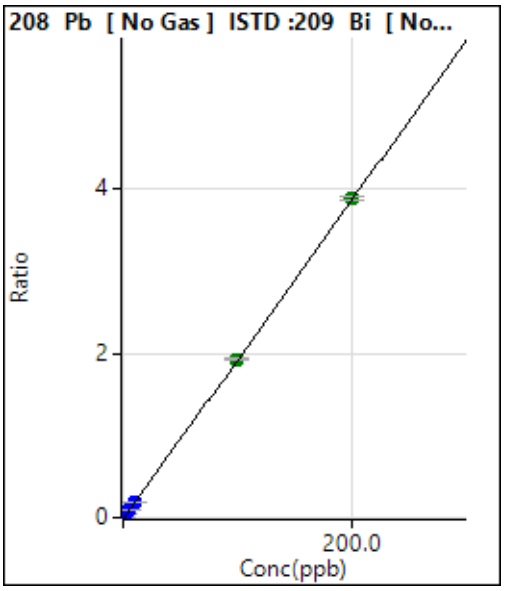


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

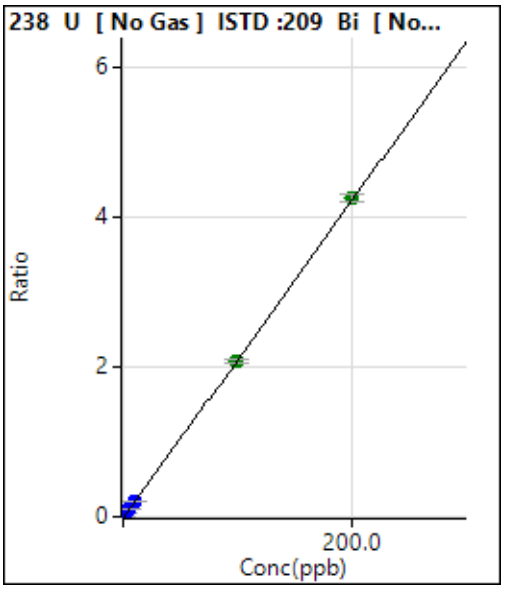
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

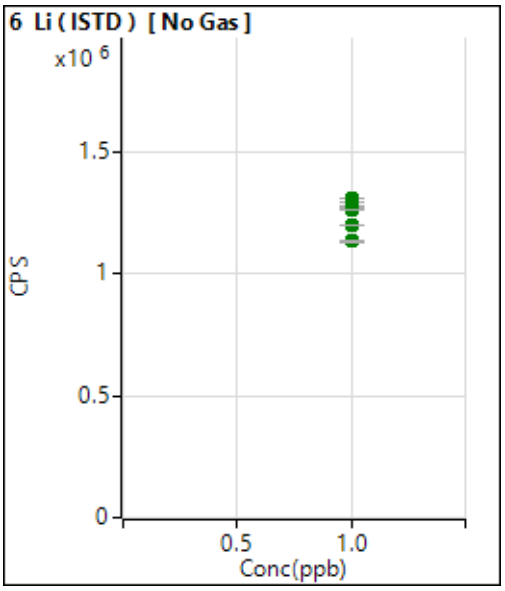
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Min Conc: <None>



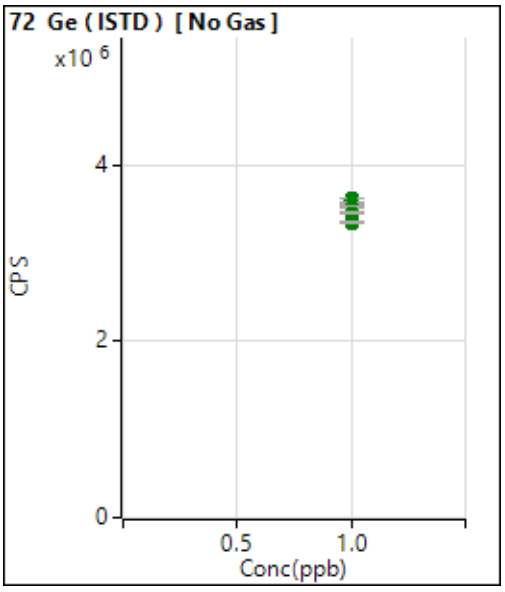
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

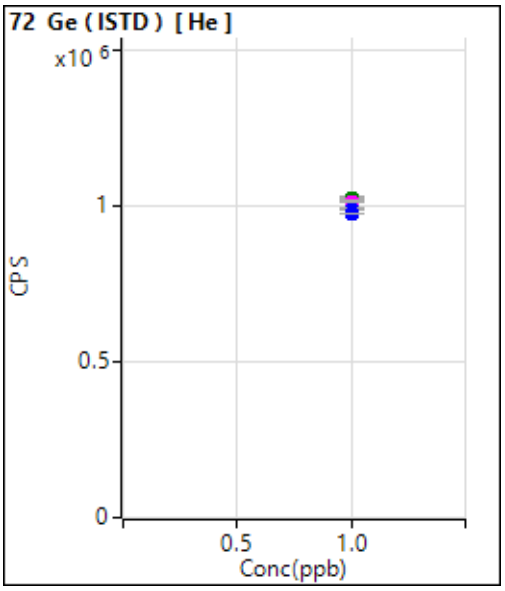
Weight: <None>
Min Conc: <None>



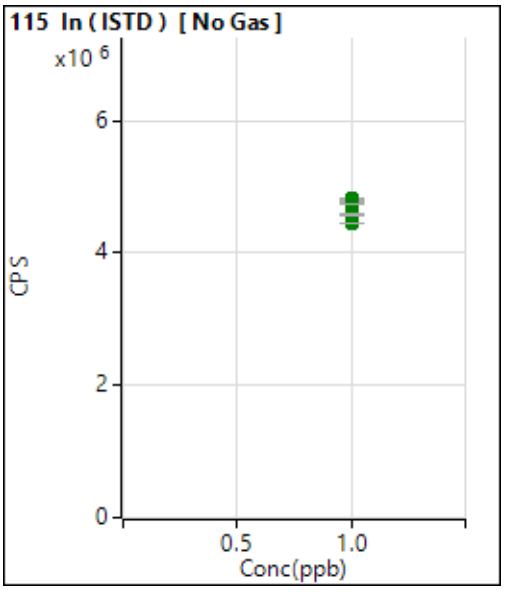
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

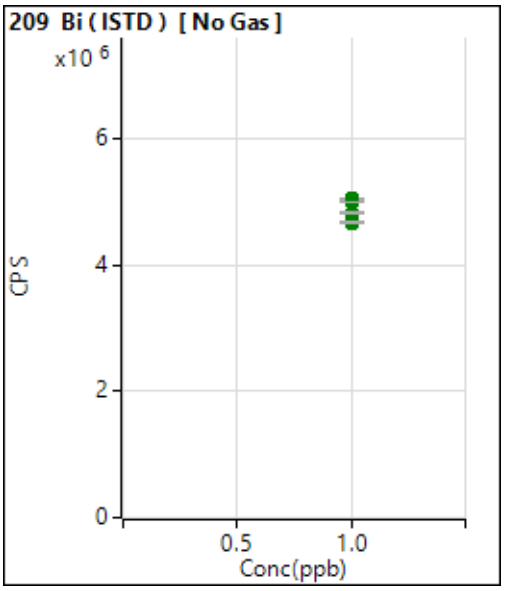


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:42:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	73766	0.00
Be	9	1	No Gas	152	1.25
V	51	2	He	6458	0.04
Cr	52	2	He	8549	0.02
Fe	56	2	He	15726	0.02
Se	78	2	He	153	6.44
As	75	2	He	276	3.55
Ca	44	2	He	863	1.73
Na	23	2	He	95800	0.00
Mg	24	2	He	1183	0.99
K	39	2	He	96274	0.00
Mn	55	2	He	797	2.62
Co	59	2	He	473	1.57
Ni	60	2	He	327	6.38
Cu	63	2	He	633	1.80
Zn	66	2	He	1080	1.12
Al	27	2	He	1503	1.07
B	11	1	No Gas	18711	0.00
Al	27	1	No Gas	59948	0.00
Si	28	1	No Gas	409186	0.00
Ag	107	1	No Gas	563	3.54
Cd	111	1	No Gas	2	80860.30
Sr	88	1	No Gas	2720	0.04
Mo	95	1	No Gas	180	8.17
Sn	118	1	No Gas	5995	0.07
Sb	121	1	No Gas	630	3.41
Ba	137	1	No Gas	750	1.07
Tl	205	1	No Gas	2420	0.45
Tl	203	1	No Gas	967	1.62
Pb	208	1	No Gas	4887	0.10
U	238	1	No Gas	3044	0.06
Ca	43	2	He	47	115.56
Sb	121	2	He	333	1.37
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	2580	0.26

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1311506	0.45
Ge	72	2	He	1024231	0.83
Ge	72	1	No Gas	3625271	0.57
In	115	1	No Gas	4826624	0.32

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5040996	0.42

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:44:58-05:00
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	9258	0.05
V	51	2	He	21895	0.01
Cr	52	2	He	25621	0.00
Fe	56	2	He	1745376	0.00
Se	78	2	He	418	1.43
As	75	2	He	3008	0.06
Ca	44	2	He	11672	0.03
Na	23	2	He	353014	0.00
Mg	24	2	He	163017	0.00
K	39	2	He	293451	0.00
Mn	55	2	He	15095	0.04
Co	59	2	He	27959	0.01
Ni	60	2	He	7389	0.03
Cu	63	2	He	20656	0.01
Zn	66	2	He	5208	0.11
Al	27	2	He	3244	0.30
B	11	1	No Gas	44891	0.00
Al	27	1	No Gas	130487	0.00
Si	28	1	No Gas	531313	0.00
Ag	107	1	No Gas	59111	0.01
Cd	111	1	No Gas	11652	0.06
Sr	88	1	No Gas	115681	0.00
Mo	95	1	No Gas	21401	0.02
Sn	118	1	No Gas	45455	0.00
Sb	121	1	No Gas	52116	0.01
Ba	137	1	No Gas	23081	0.01
Tl	205	1	No Gas	121094	0.00
Tl	203	1	No Gas	50916	0.01
Pb	208	1	No Gas	194684	0.00
U	238	1	No Gas	201087	0.00
Ca	43	2	He	670	1.02
Sb	121	2	He	22002	0.01
Cu	63	1	No Gas	44542	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	1296399	0.10	1311506	98.85	70	120	
Ge	72	2	He	1020789	1.19	1024231	99.66	70	120	
Ge	72	1	No Gas	3598501	1.00	3625271	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4819855	0.59	4826624	99.86	70	120	
Bi	209	1	No Gas	5052988	0.47	5040996	100.24	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\062624A.b
Acq Date Time	2024-06-26T10:47:39-05:00
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	22374	0.02
V	51	2	He	43310	0.01
Cr	52	2	He	51335	0.01
Fe	56	2	He	4134671	0.00
Se	78	2	He	782	0.62
As	75	2	He	6593	0.04
Ca	44	2	He	25560	0.01
Na	23	2	He	725631	0.00
Mg	24	2	He	393955	0.00
K	39	2	He	571831	0.00
Mn	55	2	He	34430	0.00
Co	59	2	He	67066	0.00
Ni	60	2	He	17652	0.03
Cu	63	2	He	46385	0.01
Zn	66	2	He	9964	0.03
Al	27	2	He	4071	0.11
B	11	1	No Gas	79278	0.00
Al	27	1	No Gas	162172	0.00
Si	28	1	No Gas	675400	0.00
Ag	107	1	No Gas	146314	0.00
Cd	111	1	No Gas	28352	0.01
Sr	88	1	No Gas	274822	0.00
Mo	95	1	No Gas	52998	0.01
Sn	118	1	No Gas	100455	0.00
Sb	121	1	No Gas	125139	0.00
Ba	137	1	No Gas	49202	0.00
Tl	205	1	No Gas	322863	0.00
Tl	203	1	No Gas	137123	0.00
Pb	208	1	No Gas	466644	0.00
U	238	1	No Gas	493779	0.00
Ca	43	2	He	1420	0.69
Sb	121	2	He	52916	0.01
Cu	63	1	No Gas	105069	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	1278168	0.43	1311506	97.46	70	120	
Ge	72	2	He	1016079	0.65	1024231	99.20	70	120	
Ge	72	1	No Gas	3562326	0.47	3625271	98.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4765232	0.22	4826624	98.73	70	120	
Bi	209	1	No Gas	4994818	0.33	5040996	99.08	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\062624A.b
Acq Date Time	2024-06-26T10:50:20-05:00
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	45561	0.00
V	51	2	He	84157	0.00
Cr	52	2	He	99220	0.00
Fe	56	2	He	8848571	0.00
Se	78	2	He	1492	0.15
As	75	2	He	14023	0.01
Ca	44	2	He	53995	0.00
Na	23	2	He	1443042	0.00
Mg	24	2	He	836661	0.00
K	39	2	He	1111672	0.00
Mn	55	2	He	73348	0.00
Co	59	2	He	143134	0.00
Ni	60	2	He	36963	0.02
Cu	63	2	He	98121	0.00
Zn	66	2	He	18600	0.01
Al	27	2	He	7175	0.02
B	11	1	No Gas	143787	0.00
Al	27	1	No Gas	276086	0.00
Si	28	1	No Gas	942178	0.00
Ag	107	1	No Gas	295295	0.00
Cd	111	1	No Gas	57393	0.00
Sr	88	1	No Gas	558292	0.00
Mo	95	1	No Gas	108290	0.00
Sn	118	1	No Gas	195612	0.00
Sb	121	1	No Gas	253345	0.00
Ba	137	1	No Gas	97568	0.00
Tl	205	1	No Gas	641551	0.00
Tl	203	1	No Gas	270115	0.00
Pb	208	1	No Gas	953267	0.00
U	238	1	No Gas	1002348	0.00
Ca	43	2	He	3054	0.20
Sb	121	2	He	112713	0.00
Cu	63	1	No Gas	208125	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	1261654	0.20	1311506	96.20	70	120	
Ge	72	2	He	1013448	0.56	1024231	98.95	70	120	
Ge	72	1	No Gas	3524403	0.32	3625271	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	4733708	0.27	4826624	98.07	70	120	
Bi	209	1	No Gas	4986533	0.17	5040996	98.92	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\062624A.b
Acq Date Time	2024-06-26T10:53:00-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	438437	0.00
V	51	2	He	780977	0.00
Cr	52	2	He	884236	0.00
Fe	56	2	He	86135269	0.00
Se	78	2	He	13360	0.02
As	75	2	He	136005	0.00
Ca	44	2	He	520925	0.00
Na	23	2	He	13217808	0.00
Mg	24	2	He	8181836	0.00
K	39	2	He	10054267	0.00
Mn	55	2	He	704323	0.00
Co	59	2	He	1378711	0.00
Ni	60	2	He	353702	0.00
Cu	63	2	He	937572	0.00
Zn	66	2	He	174511	0.00
Al	27	2	He	54623	0.01
B	11	1	No Gas	1230939	0.00
Al	27	1	No Gas	2066305	0.00
Si	28	1	No Gas	5540167	0.00
Ag	107	1	No Gas	2794774	0.00
Cd	111	1	No Gas	549564	0.00
Sr	88	1	No Gas	5465713	0.00
Mo	95	1	No Gas	1048424	0.00
Sn	118	1	No Gas	1846912	0.00
Sb	121	1	No Gas	2414256	0.00
Ba	137	1	No Gas	931776	0.00
Tl	205	1	No Gas	6527912	0.00
Tl	203	1	No Gas	2677534	0.00
Pb	208	1	No Gas	9036795	0.00
U	238	1	No Gas	9844995	0.00
Ca	43	2	He	30771	0.01
Sb	121	2	He	1086596	0.00
Cu	63	1	No Gas	1925848	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	1199804	0.86	1311506	91.48	70	120	
Ge	72	2	He	991120	0.62	1024231	96.77	70	120	
Ge	72	1	No Gas	3419623	1.02	3625271	94.33	70	120	

Calibration Standard Report

In	115	1	No Gas	4559231	1.01	4826624	94.46	70	120	
Bi	209	1	No Gas	4766725	0.73	5040996	94.56	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\062624A.b
Acq Date Time	2024-06-26T10:55:37-05:00
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	817241	0.00
V	51	2	He	1390010	0.00
Cr	52	2	He	1567590	0.00
Fe	56	2	He	152570694	0.00
Se	78	2	He	23825	0.01
As	75	2	He	245444	0.00
Ca	44	2	He	917403	0.00
Na	23	2	He	23642475	0.00
Mg	24	2	He	14414825	0.00
K	39	2	He	18019990	0.00
Mn	55	2	He	1233953	0.00
Co	59	2	He	2427490	0.00
Ni	60	2	He	624570	0.00
Cu	63	2	He	1656046	0.00
Zn	66	2	He	308434	0.00
Al	27	2	He	95010	0.01
B	11	1	No Gas	2345911	0.00
Al	27	1	No Gas	3821074	0.00
Si	28	1	No Gas	10015220	0.00
Ag	107	1	No Gas	5253095	0.00
Cd	111	1	No Gas	1033290	0.00
Sr	88	1	No Gas	10447917	0.00
Mo	95	1	No Gas	2011616	0.00
Sn	118	1	No Gas	3501678	0.00
Sb	121	1	No Gas	4613875	0.00
Ba	137	1	No Gas	1761568	0.00
Tl	205	1	No Gas	12296686	0.00
Tl	203	1	No Gas	5036372	0.00
Pb	208	1	No Gas	17369800	0.00
U	238	1	No Gas	19040135	0.00
Ca	43	2	He	55042	0.01
Sb	121	2	He	1942208	0.00
Cu	63	1	No Gas	3594160	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	1149741	1.25	1311506	87.67	70	120	
Ge	72	2	He	980532	0.26	1024231	95.73	70	120	
Ge	72	1	No Gas	3348719	0.89	3625271	92.37	70	120	

Calibration Standard Report

In	115	1	No Gas	4489168	0.54	4826624	93.01	70	120	
Bi	209	1	No Gas	4657439	0.91	5040996	92.39	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\062624A.b
Acq Date Time	2024-06-26T11:06:59-05:00
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	439243	0.00
V	51	2	He	793395	0.00
Cr	52	2	He	898049	0.00
Fe	56	2	He	87995329	0.00
Se	78	2	He	13672	0.01
As	75	2	He	137683	0.00
Ca	44	2	He	529957	0.00
Na	23	2	He	13562842	0.00
Mg	24	2	He	8355099	0.00
K	39	2	He	10326336	0.00
Mn	55	2	He	718660	0.00
Co	59	2	He	1393368	0.00
Ni	60	2	He	359924	0.00
Cu	63	2	He	948808	0.00
Zn	66	2	He	175069	0.00
Al	27	2	He	56179	0.01
B	11	1	No Gas	1241149	0.00
Al	27	1	No Gas	2108614	0.00
Si	28	1	No Gas	5629440	0.00
Ag	107	1	No Gas	2837640	0.00
Cd	111	1	No Gas	555906	0.00
Sr	88	1	No Gas	5622582	0.00
Mo	95	1	No Gas	1063037	0.00
Sn	118	1	No Gas	1883908	0.00
Sb	121	1	No Gas	2462252	0.00
Ba	137	1	No Gas	946776	0.00
Tl	205	1	No Gas	6577152	0.00
Tl	203	1	No Gas	2698179	0.00
Pb	208	1	No Gas	9298823	0.00
U	238	1	No Gas	10041080	0.00
Ca	43	2	He	31352	0.01
Sb	121	2	He	1102755	0.00
Cu	63	1	No Gas	1959324	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	1199454	0.20	1311506	91.46	70	120	
Ge	72	2	He	988164	0.54	1024231	96.48	70	120	
Ge	72	1	No Gas	3455665	0.51	3625271	95.32	70	120	

Calibration Standard Report

In	115	1	No Gas	4584169	0.31	4826624	94.98	70	120	
Bi	209	1	No Gas	4817898	0.54	5040996	95.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:09:29-05:00
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	843817	0.00
V	51	2	He	1545285	0.00
Cr	52	2	He	1743352	0.00
Fe	56	2	He	169492937	0.00
Se	78	2	He	26583	0.01
As	75	2	He	266474	0.00
Ca	44	2	He	1032824	0.00
Na	23	2	He	26127261	0.00
Mg	24	2	He	16108926	0.00
K	39	2	He	19779666	0.00
Mn	55	2	He	1377897	0.00
Co	59	2	He	2700155	0.00
Ni	60	2	He	691304	0.00
Cu	63	2	He	1833855	0.00
Zn	66	2	He	338842	0.00
Al	27	2	He	105779	0.00
B	11	1	No Gas	2411542	0.00
Al	27	1	No Gas	3998174	0.00
Si	28	1	No Gas	10398479	0.00
Ag	107	1	No Gas	5436208	0.00
Cd	111	1	No Gas	1080698	0.00
Sr	88	1	No Gas	10854979	0.00
Mo	95	1	No Gas	2083281	0.00
Sn	118	1	No Gas	3671236	0.00
Sb	121	1	No Gas	4824383	0.00
Ba	137	1	No Gas	1855808	0.00
Tl	205	1	No Gas	12762014	0.00
Tl	203	1	No Gas	5248397	0.00
Pb	208	1	No Gas	18139289	0.00
U	238	1	No Gas	19870879	0.00
Ca	43	2	He	60033	0.01
Sb	121	2	He	2189284	0.00
Cu	63	1	No Gas	3754985	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	1134408	0.74	1311506	86.50	70	120	
Ge	72	2	He	973177	0.24	1024231	95.02	70	120	
Ge	72	1	No Gas	3349657	0.47	3625271	92.40	70	120	

Calibration Standard Report

In	115	1	No Gas	4443871	0.12	4826624	92.07	70	120	
Bi	209	1	No Gas	4665365	0.67	5040996	92.55	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	021_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:15:11-05:00
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	100.222	1.855	1802956	1.92	100	100.2	90	110	
Be	9	1	No Gas	100.898	2.239	433580	2.32	100	100.9	90	110	
V	51	2	He	101.096	1.292	796454	1.08	100	101.1	90	110	
Cr	52	2	He	101.532	1.174	903539	0.92	100	101.5	90	110	
Fe	56	2	He	10173.860	1.246	87853115	1.07	10000	101.7	90	110	
Se	78	2	He	99.460	0.831	13503	0.54	100	99.5	90	110	
As	75	2	He	101.756	1.164	138100	0.98	100	101.8	90	110	
Ca	44	2	He	10094.252	1.876	530162	1.60	10000	100.9	90	110	
Na	23	2	He	10127.308	2.189	13515515	2.12	10000	101.3	90	110	
Mg	24	2	He	10171.308	1.682	8345853	1.61	10000	101.7	90	110	
K	39	2	He	10099.196	1.567	10224257	1.37	10000	101.0	90	110	
Mn	55	2	He	101.635	1.566	714402	1.38	100	101.6	90	110	
Co	59	2	He	101.991	1.665	1401468	1.61	100	102.0	90	110	
Ni	60	2	He	102.173	1.423	360180	1.29	100	102.2	90	110	
Cu	63	2	He	102.151	1.931	953945	1.76	100	102.2	90	110	
Zn	66	2	He	102.900	1.013	177857	0.77	100	102.9	90	110	
Al	27	2	He	99.810	4.378	54626	4.19	100	99.8	90	110	
B	11	1	No Gas	502.893	1.140	1221090	1.24	500	100.6	90	110	
Al	27	1	No Gas	100.878	2.414	2085315	2.17	100	100.9	90	110	
Si	28	1	No Gas	502.785	2.747	5529521	2.04	500	100.6	90	110	
Ag	107	1	No Gas	100.264	2.028	2813301	2.04	100	100.3	90	110	
Cd	111	1	No Gas	99.886	1.075	555466	1.12	100	99.9	90	110	
Sr	88	1	No Gas	99.437	1.619	5562432	1.73	100	99.4	90	110	
Mo	95	1	No Gas	98.573	1.962	1055026	2.08	100	98.6	90	110	
Sn	118	1	No Gas	99.497	1.347	1880896	1.41	100	99.5	90	110	
Sb	121	1	No Gas	99.766	2.203	2445623	2.01	100	99.8	90	110	
Ba	137	1	No Gas	98.859	1.904	942793	2.06	100	98.9	90	110	
Tl	205	1	No Gas	101.042	2.224	6657688	2.66	100	101.0	90	110	
Tl	203	1	No Gas	100.849	2.138	2731479	2.50	100	100.8	90	110	
Pb	208	1	No Gas	99.701	2.350	9329071	2.83	100	99.7	90	110	
U	238	1	No Gas	98.308	1.773	10046433	2.27	100	98.3	90	110	
Ca	43	2	He	10197.790	1.545	31239	1.31	10000	102.0	90	110	
Sb	121	2	He	99.342	1.339	1101363	1.26	100	99.3	90	110	
Ti	47	2	He	102.476	0.481	30891	0.73	100	102.5	90	110	
Cu	63	1	No Gas	101.583	2.116	1947780	2.09	100	101.6	90	110	
Se	82	1	No Gas	99.278	1.073	33204	1.19	100	99.3	90	110	
Zr	90	1	No Gas	97.875	2.145	3480387	2.35	100	97.9	90	110	
Zr	90	2	He	98.920	2.012	1388252	1.92	100	98.9	90	1100	

QC ISTD Table

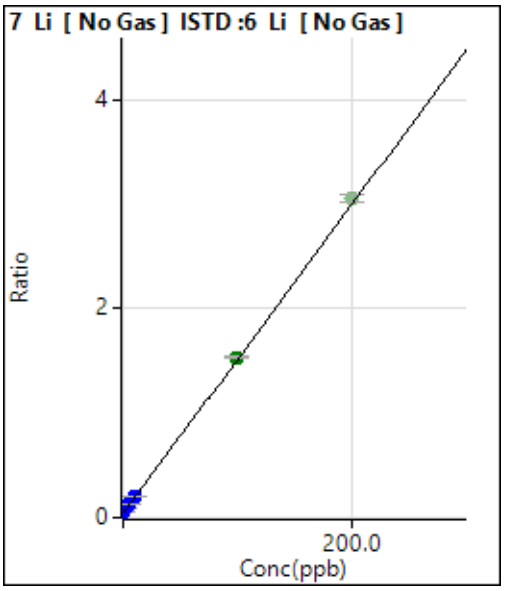
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1173827	0.16	1311506	89.50	70	120	
Ge	72	2	He	987170	0.29	1024231	96.38	70	120	
Ge	72	1	No Gas	3411266	0.96	3625271	94.10	70	120	
In	115	1	No Gas	4575856	0.33	4826624	94.80	70	120	
Bi	209	1	No Gas	4818893	0.55	5040996	95.59	70	120	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

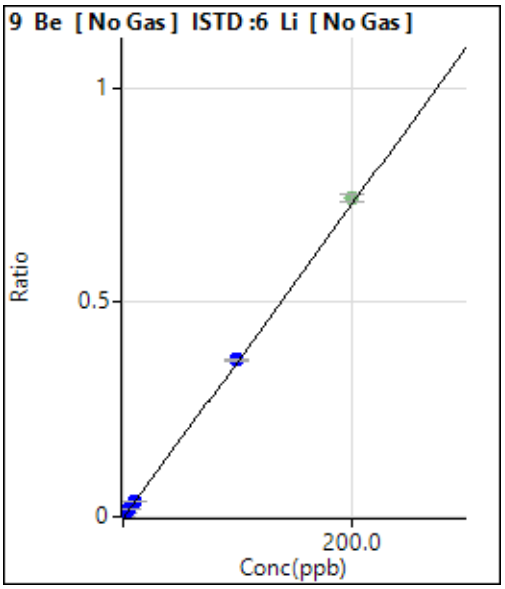
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

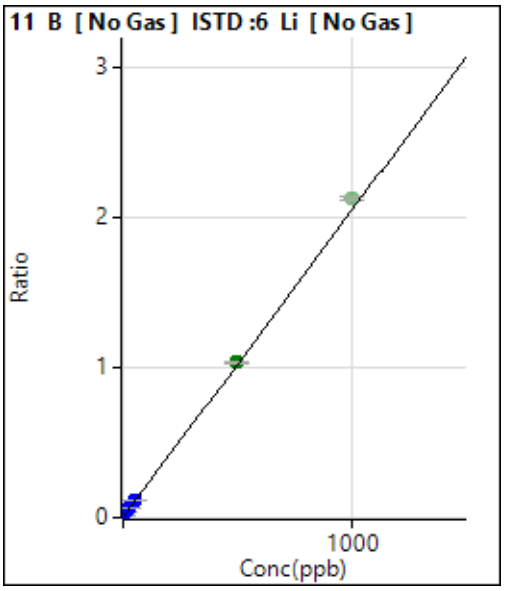


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

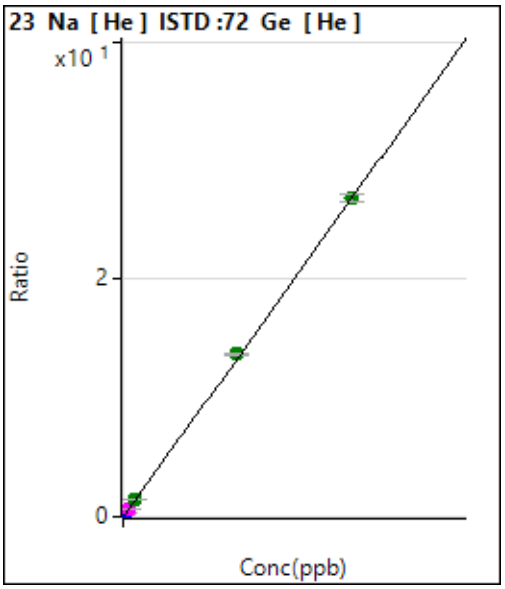
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

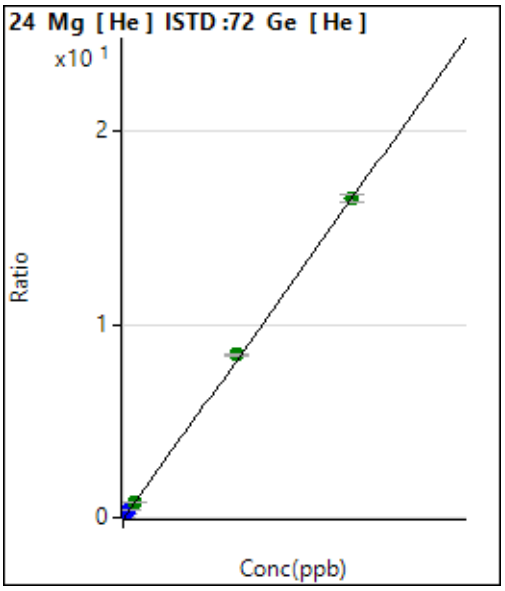


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

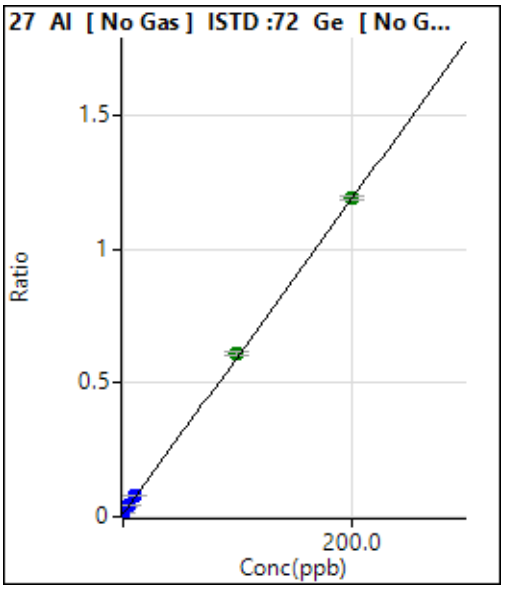
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

Weight: <None>
Min Conc: <None>

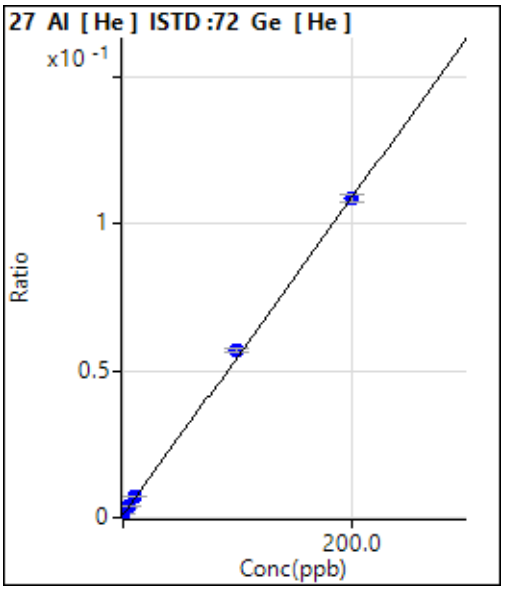


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

Weight: <None>
Min Conc: <None>

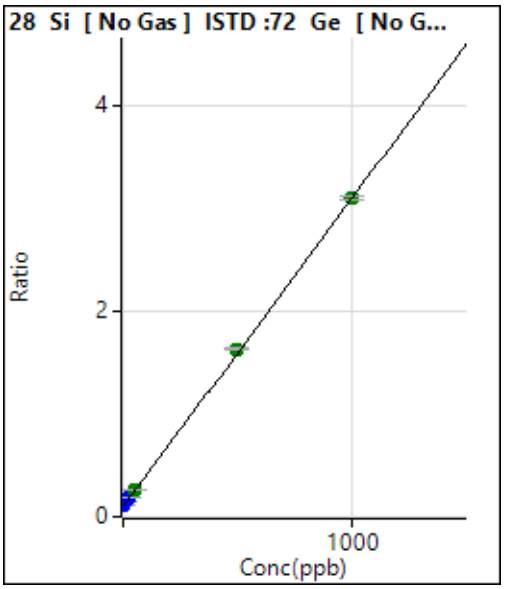
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

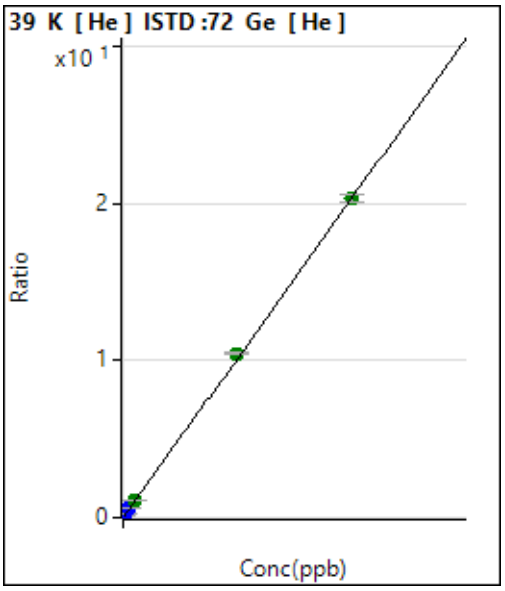


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

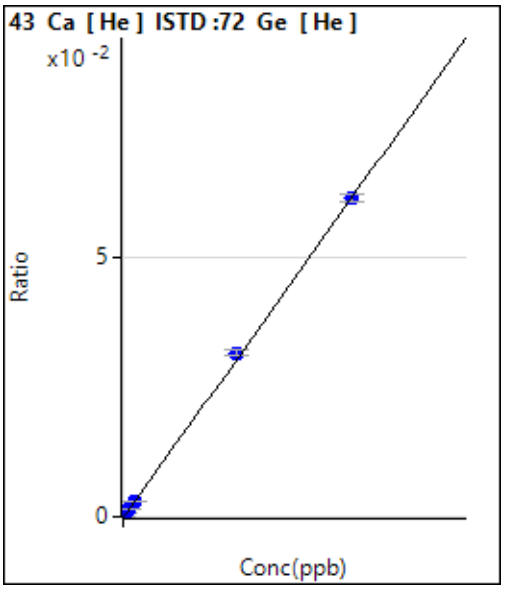
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

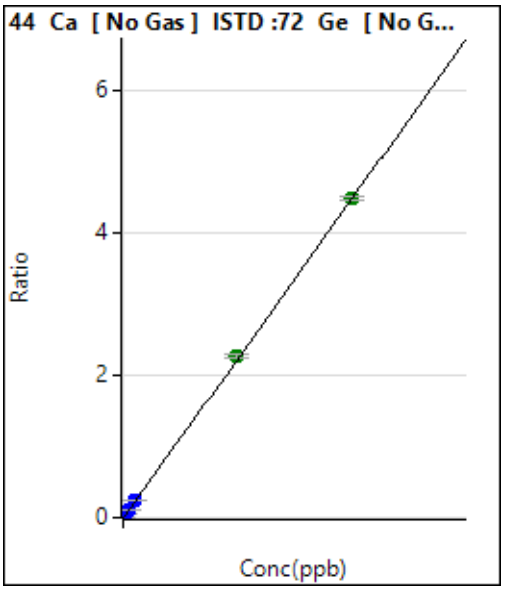


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

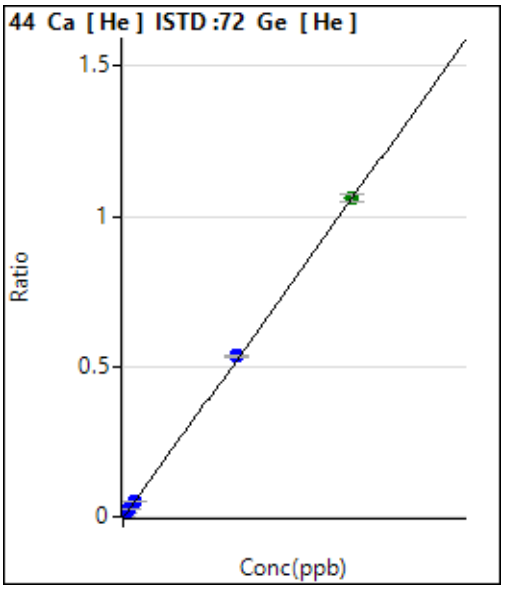
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

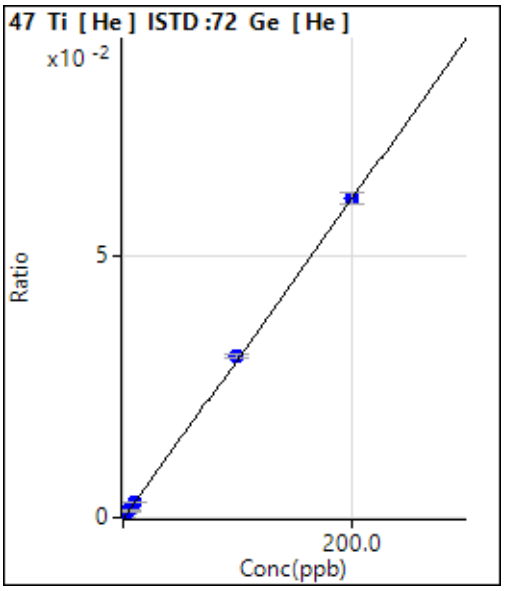
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

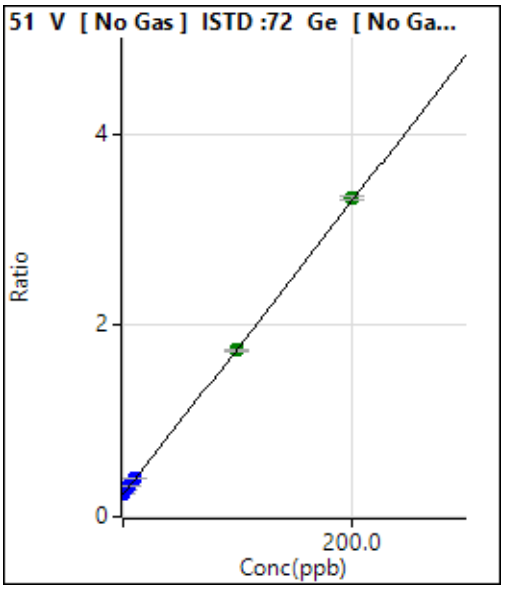
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

Weight: <None>
Min Conc: <None>

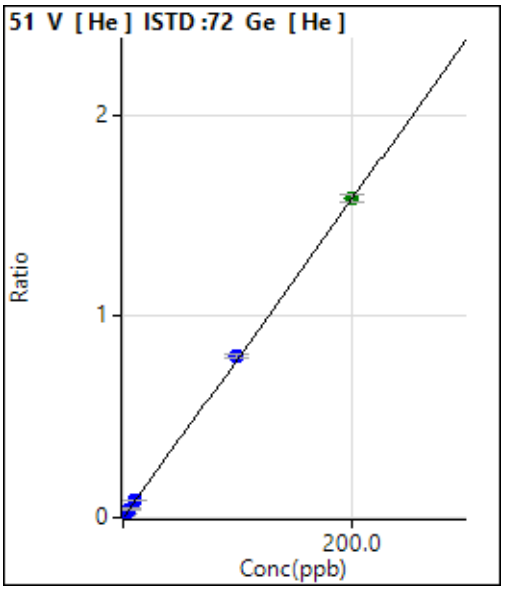


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

Weight: <None>
Min Conc: <None>

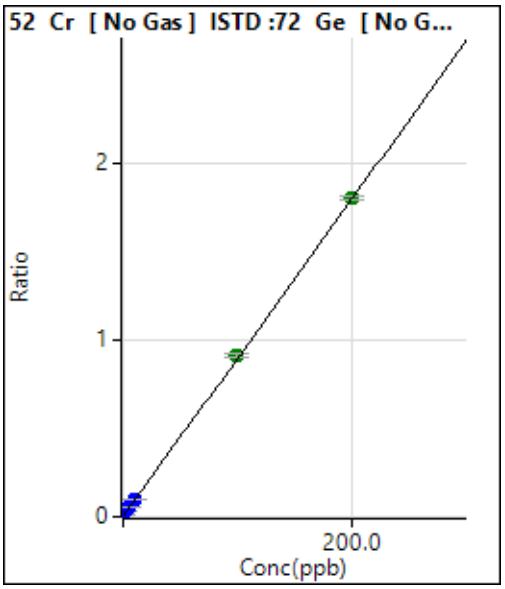
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

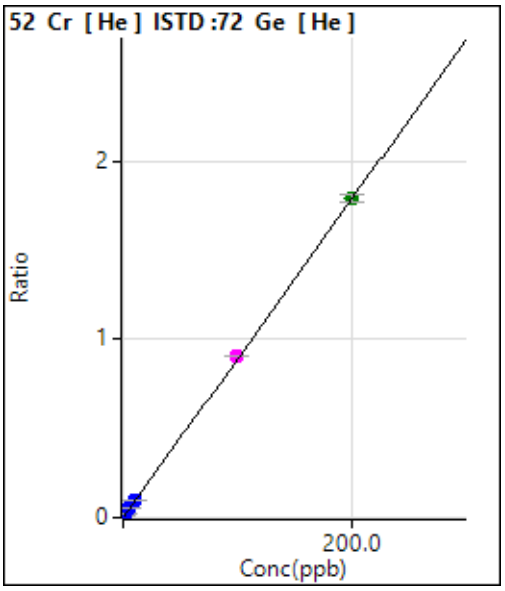


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

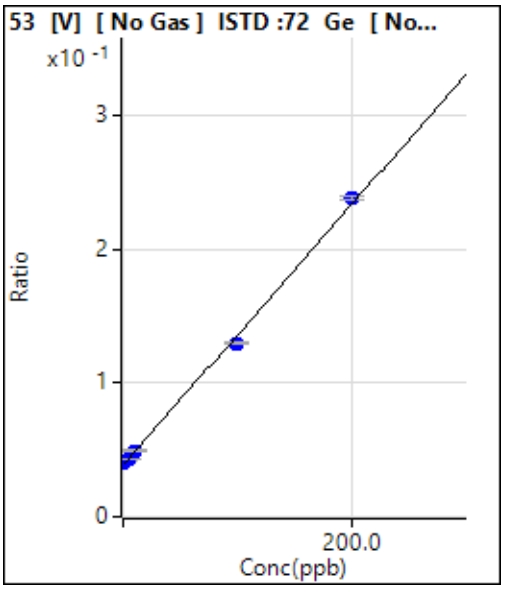
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

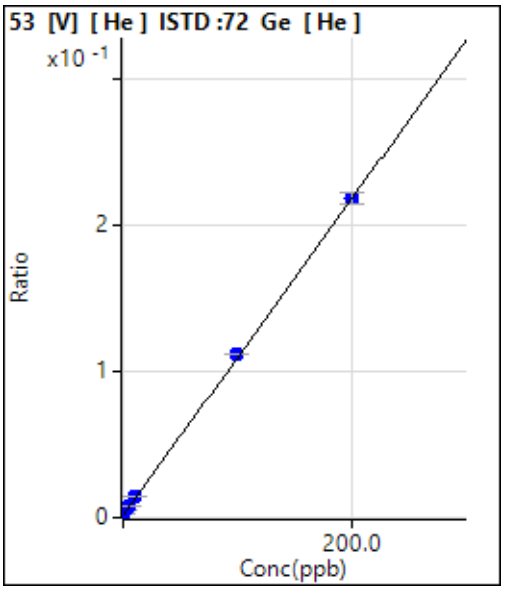
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

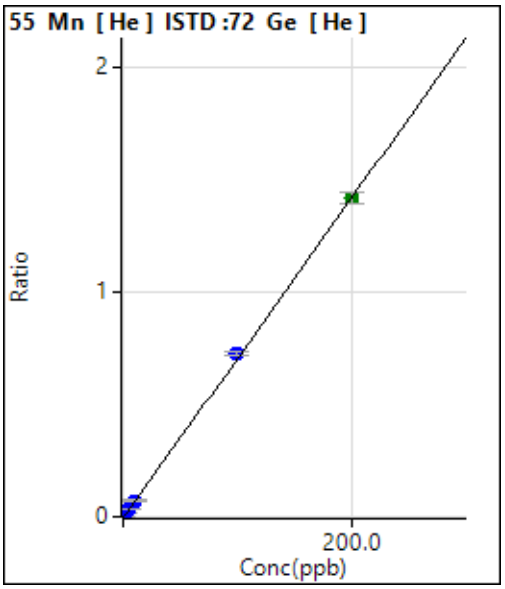
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

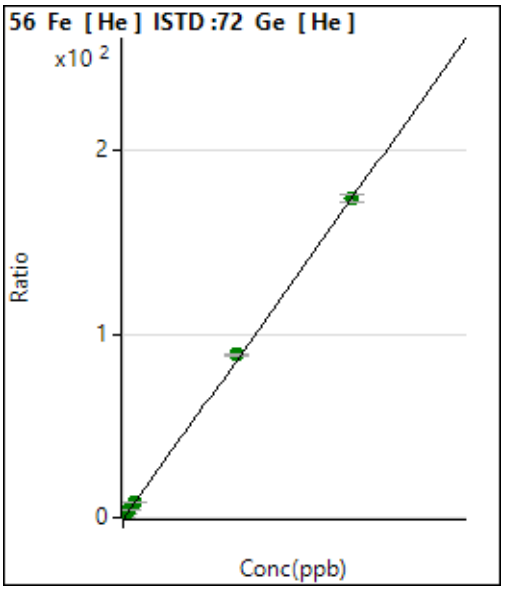


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

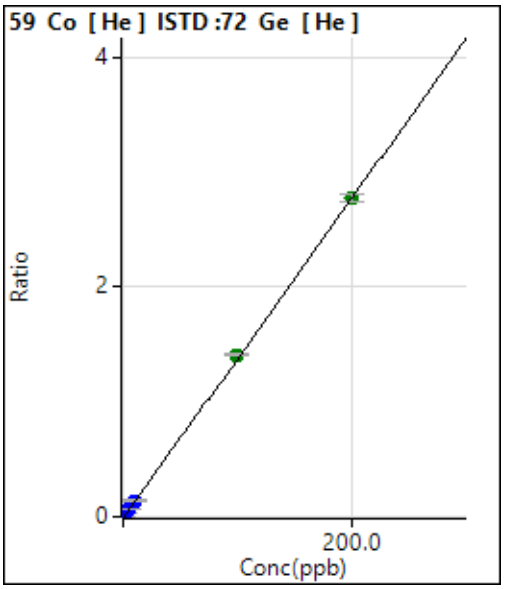
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

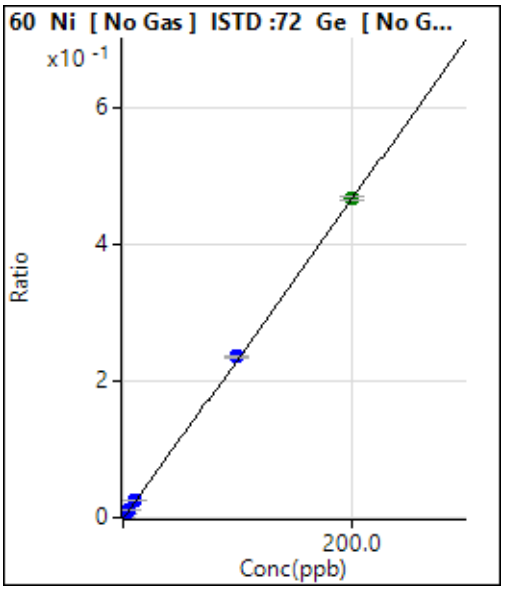


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

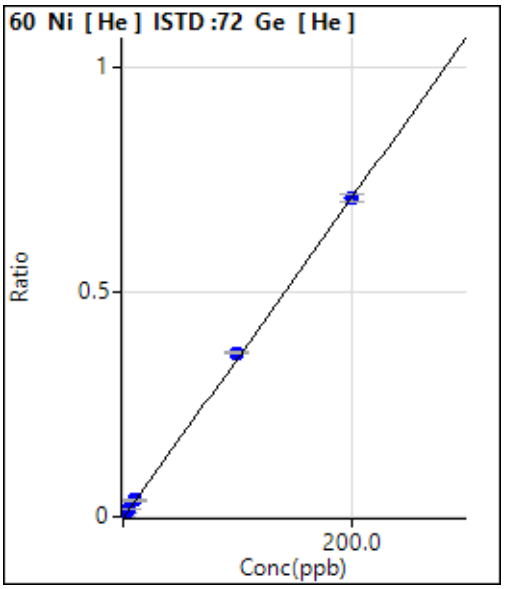
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

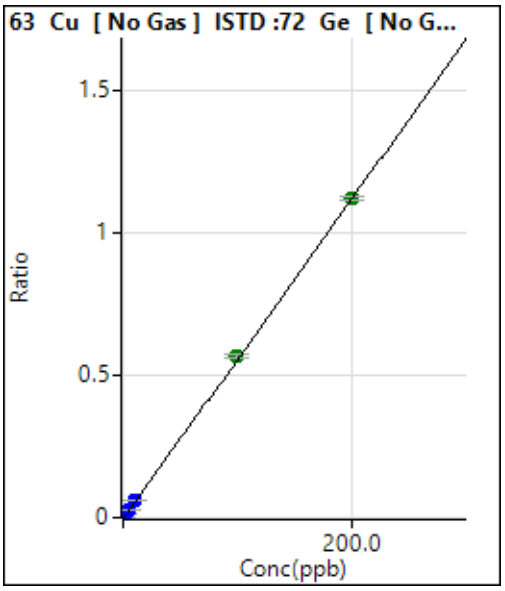


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

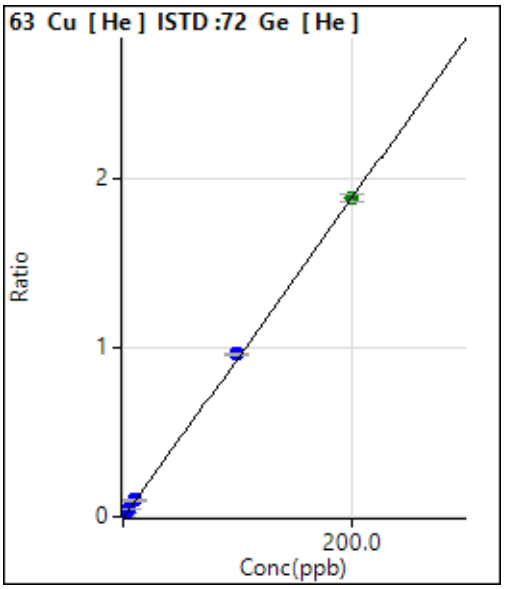
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

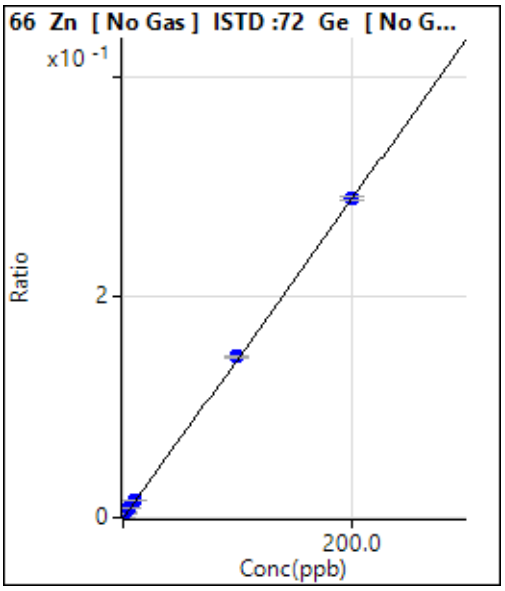


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

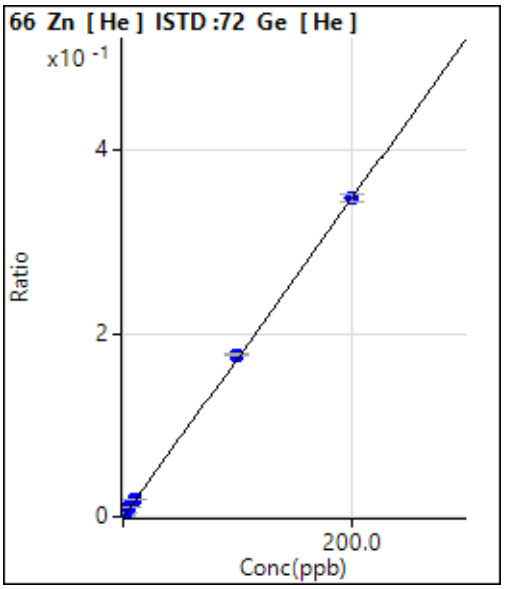
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

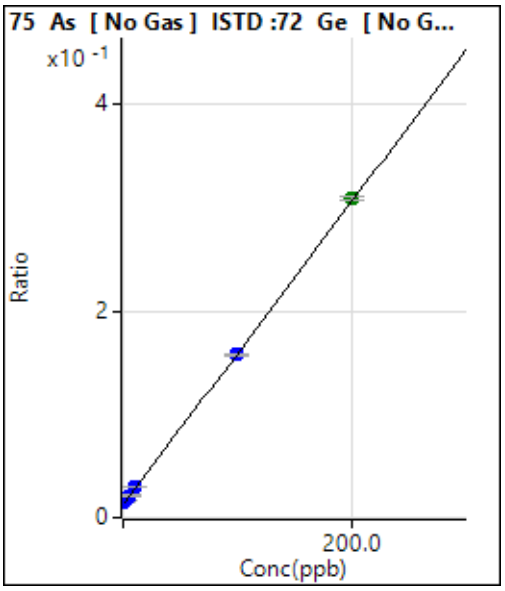
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

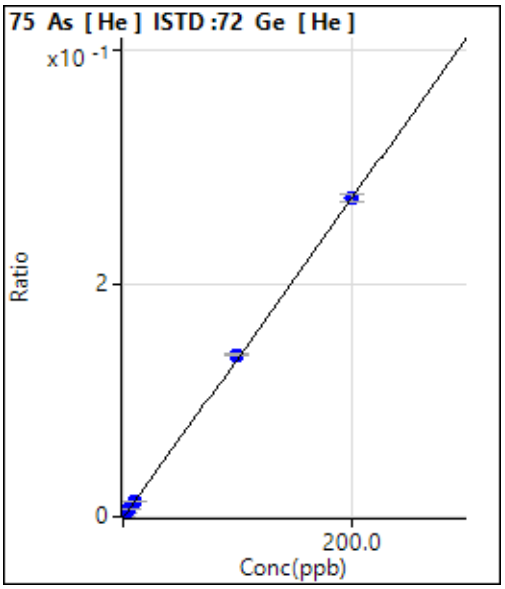
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

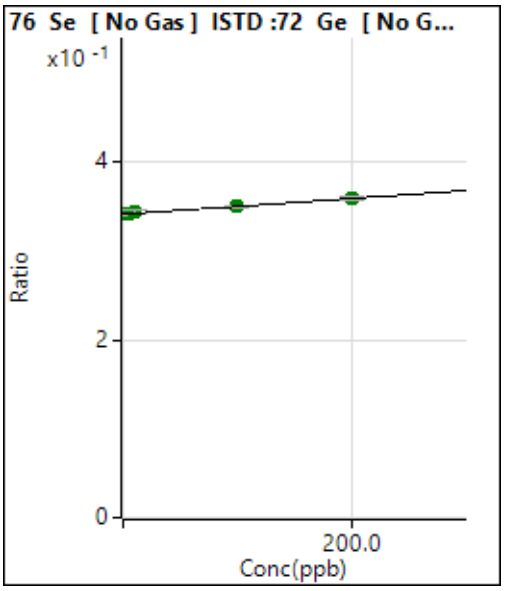


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

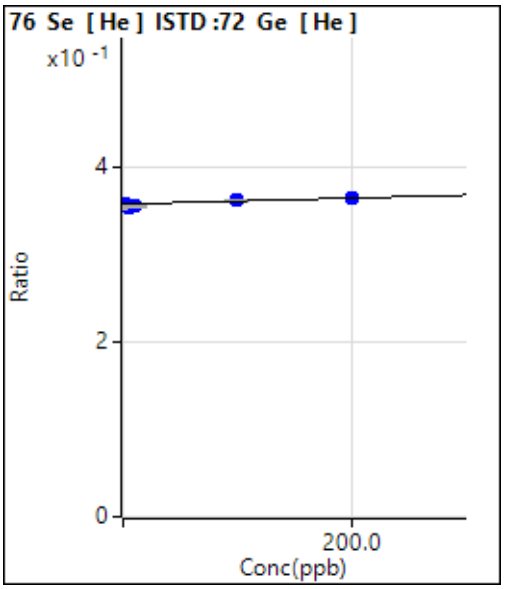
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

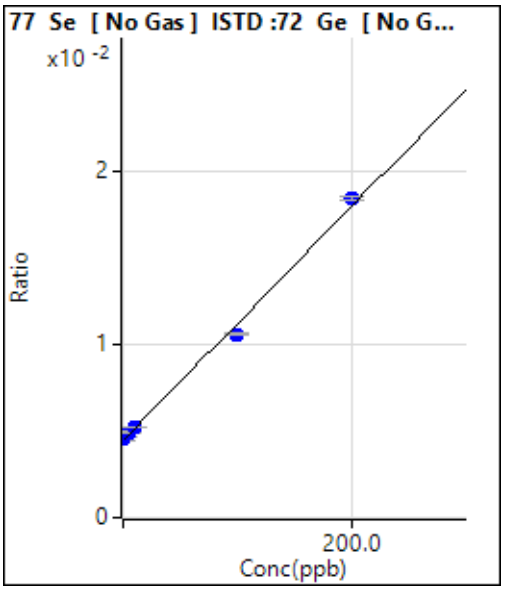


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

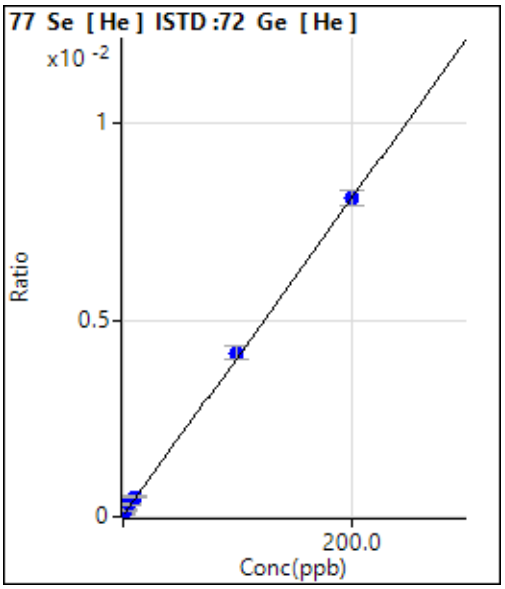
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

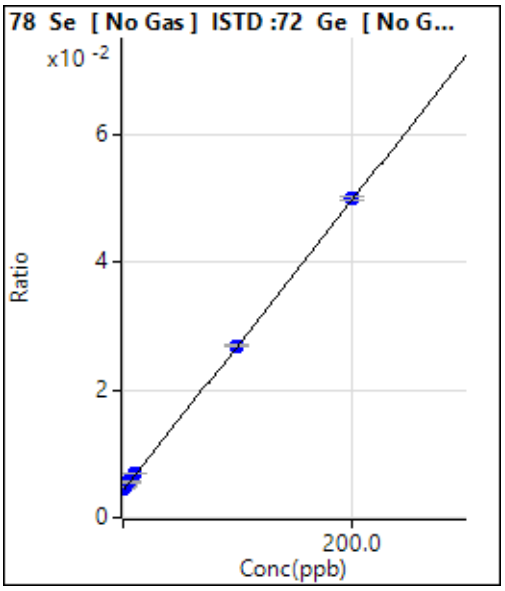


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

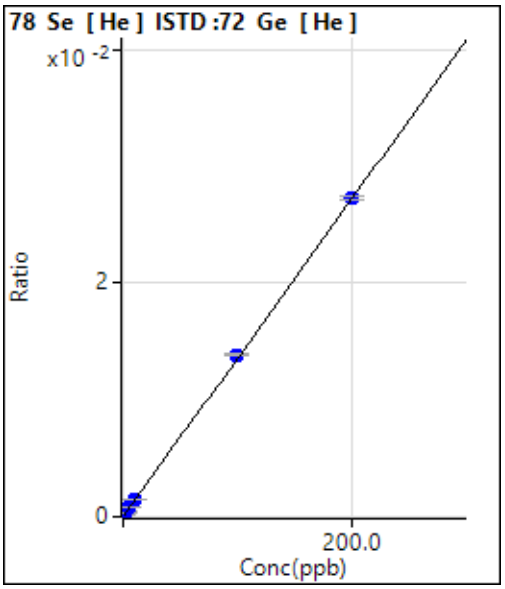
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

Weight: <None>
Min Conc: <None>

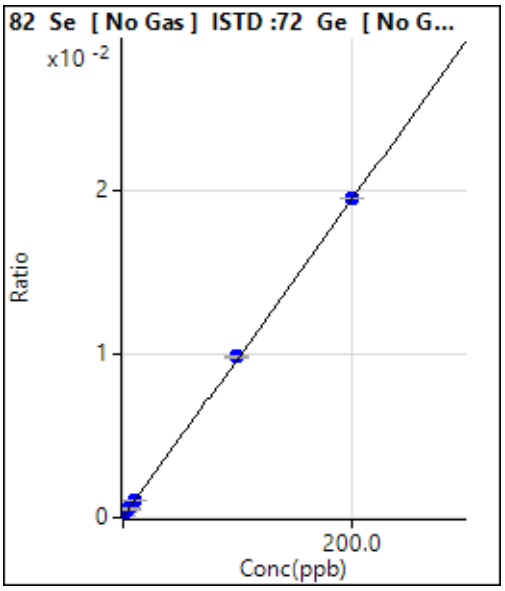


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

Weight: <None>
Min Conc: <None>

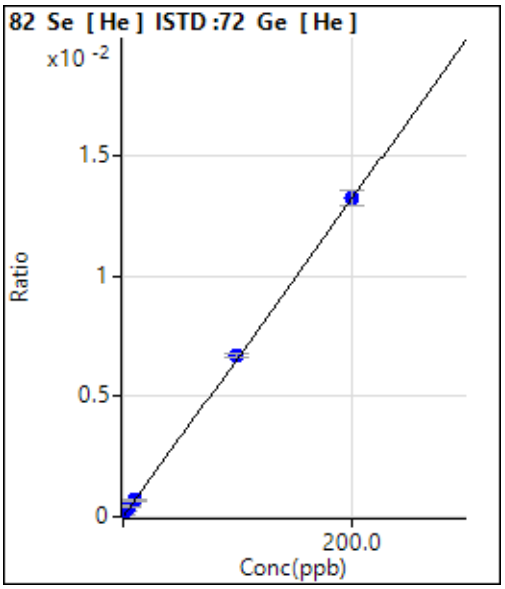
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

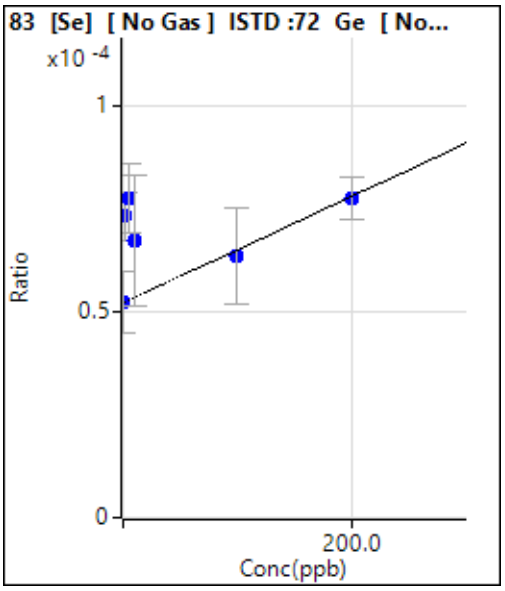
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

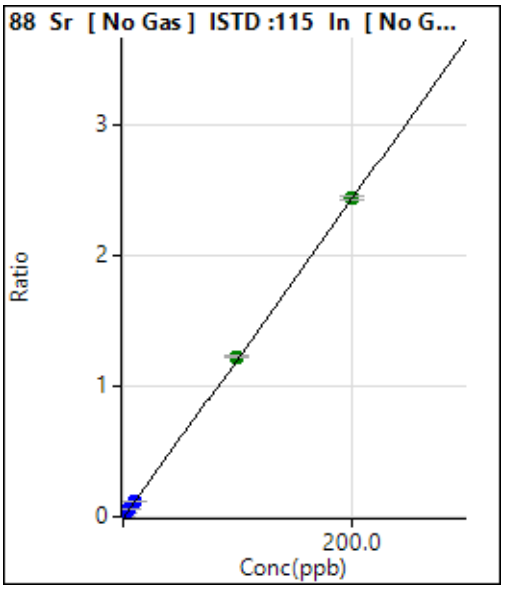
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

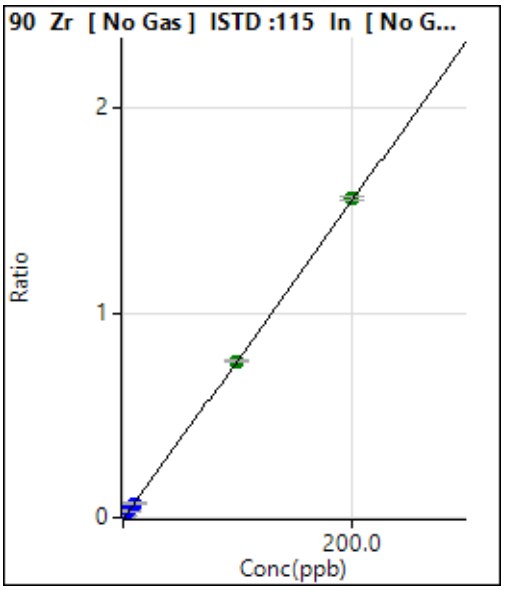


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

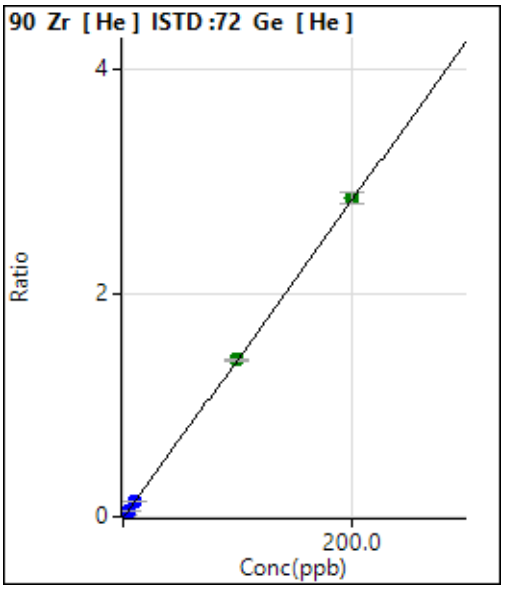
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

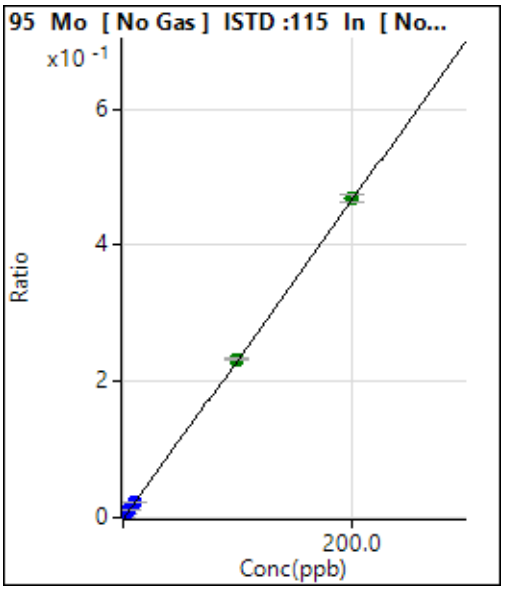


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

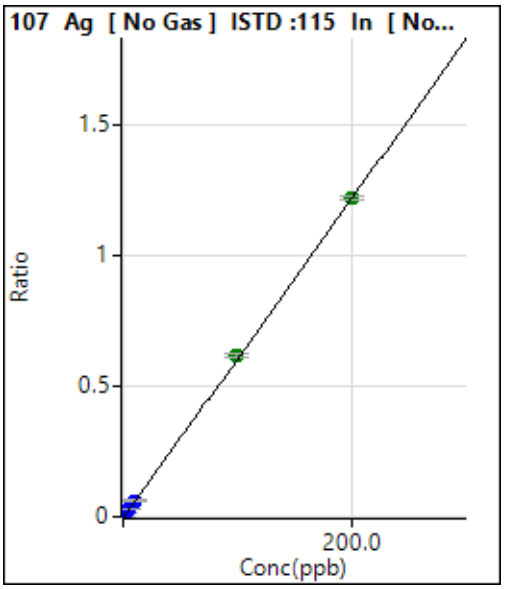
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

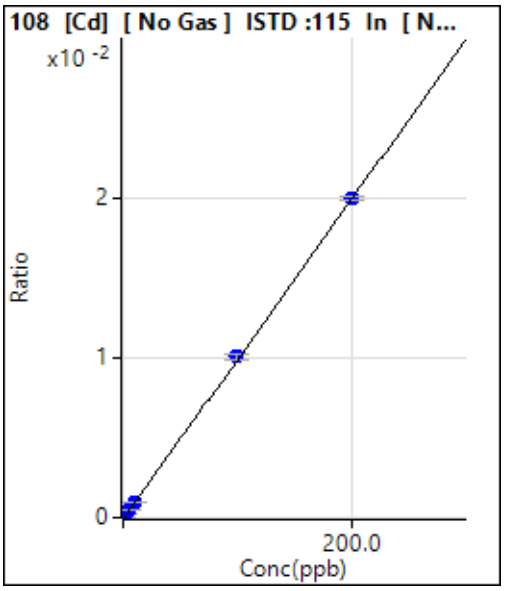
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

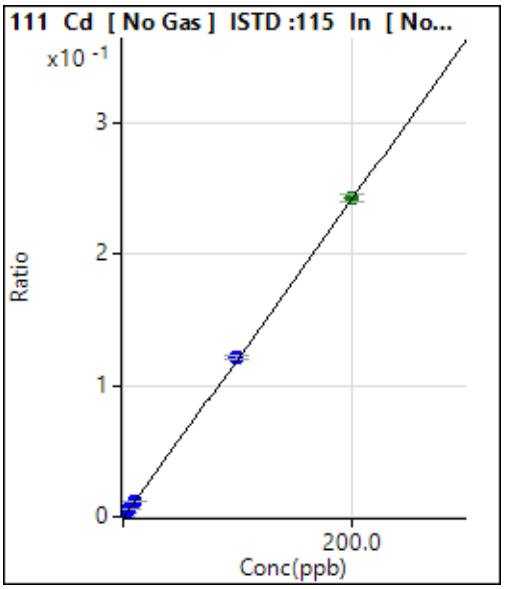
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

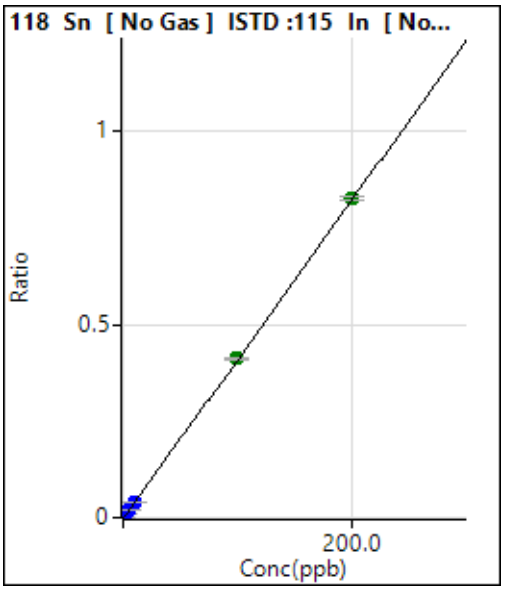


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

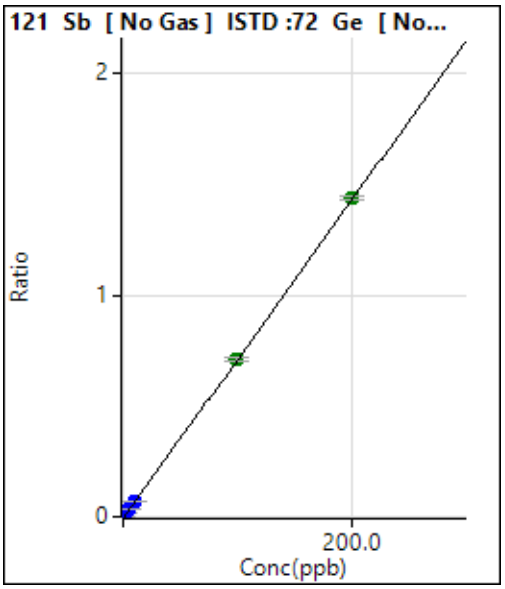
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

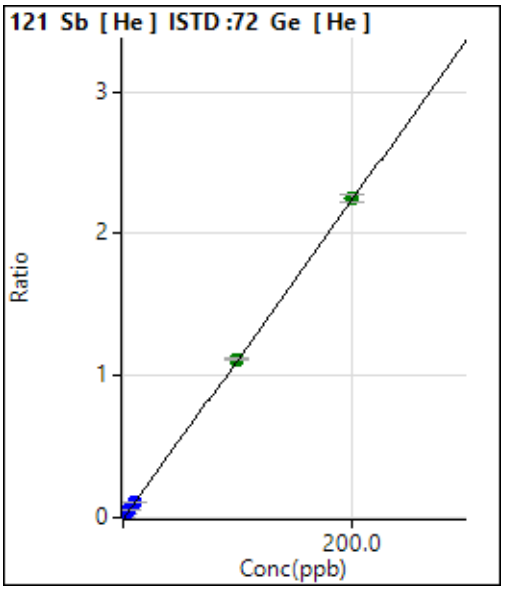
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

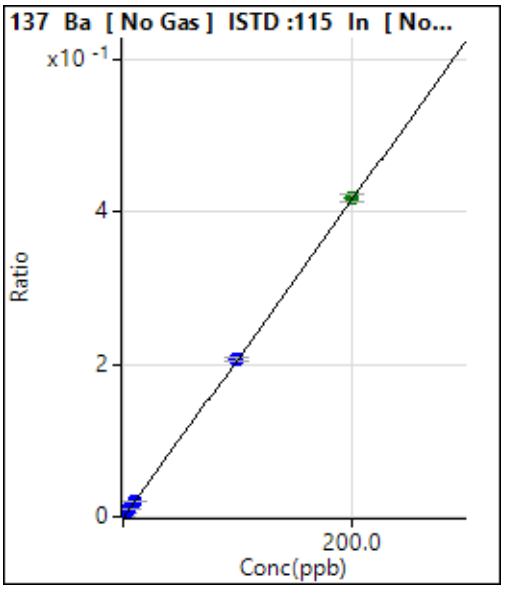
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

Weight: <None>
Min Conc: <None>

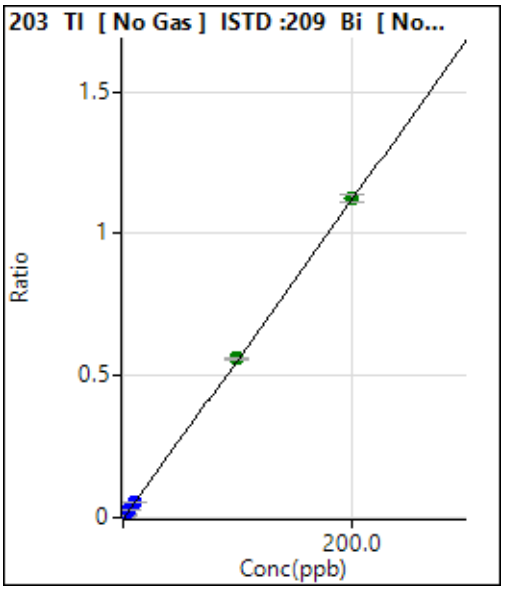


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

Weight: <None>
Min Conc: <None>

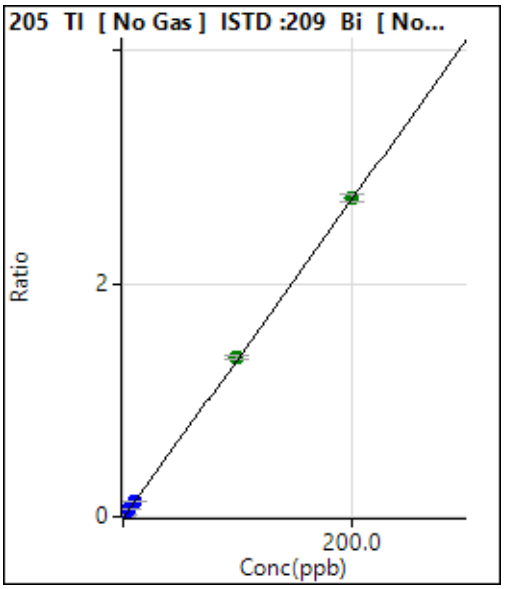
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

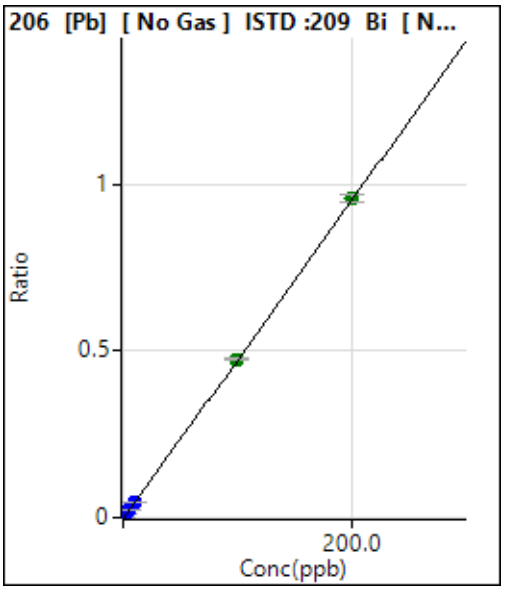


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

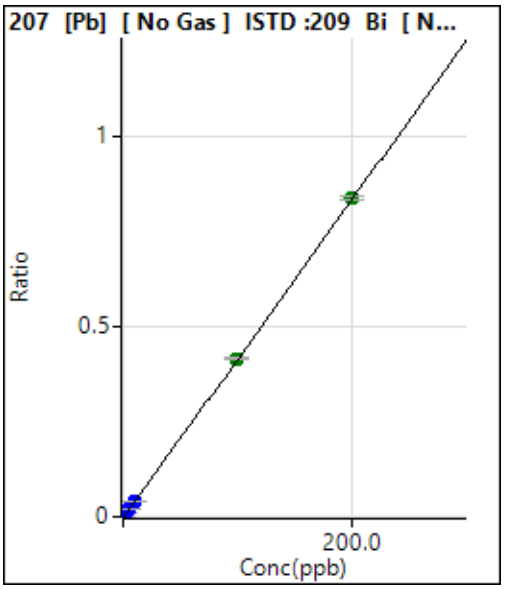
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

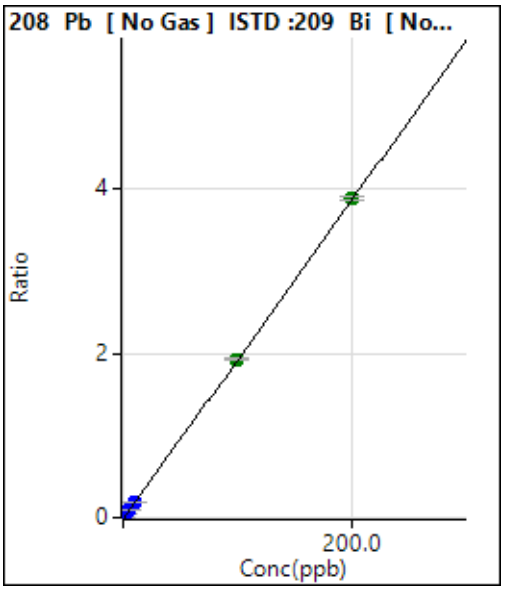


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

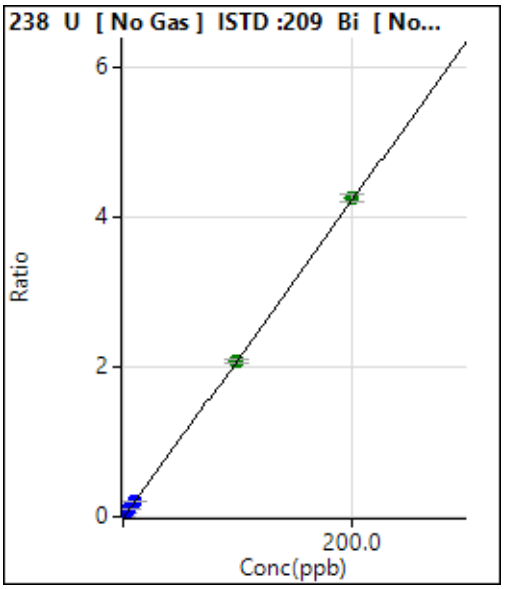
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

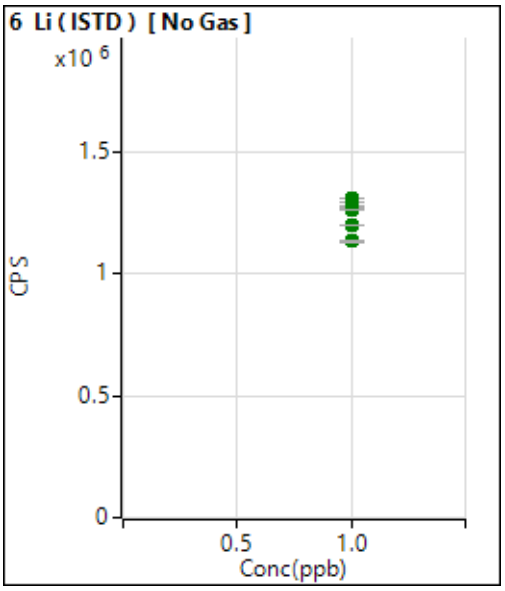
Weight: <None>
Min Conc: <None>



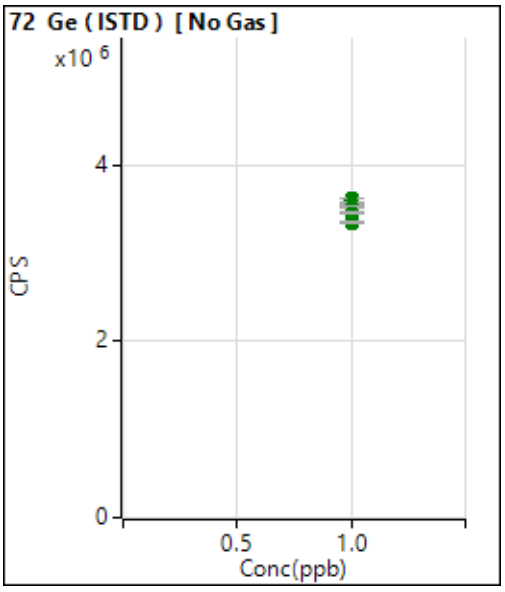
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

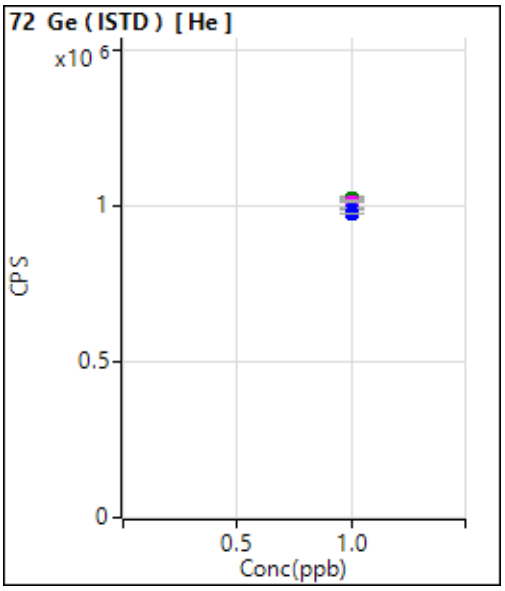
Weight: <None>
Min Conc: <None>



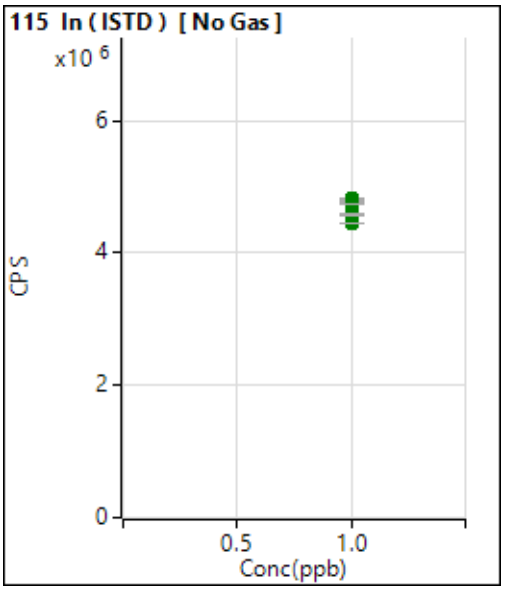
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

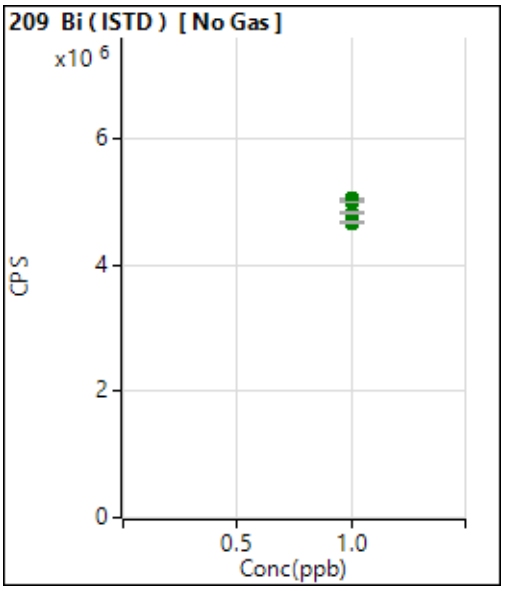


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:19:59-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.058	2.058	3.26	107386	0.00	2	
Be	9	1	No Gas	2.069	2.069	4.75	9528	0.02	2	
V	51	2	He	1.886	1.886	2.91	21277	0.01	2	
Cr	52	2	He	2.168	2.168	1.89	27758	0.01	2	
Fe	56	2	He	219.280	219.280	3.01	1936430	0.01	200	
Se	78	2	He	2.080	2.080	2.81	433	0.48	2	
As	75	2	He	2.130	2.130	1.69	3197	0.07	2	
Ca	44	2	He	233.630	233.630	3.86	13277	1.76	200	
Na	23	2	He	290.982	290.982	2.07	485048	0.06	200	NewName Main CR1 Failed
Mg	24	2	He	222.535	222.535	1.46	186421	0.12	200	
K	39	2	He	210.372	210.372	3.79	308290	0.07	200	
Mn	55	2	He	2.208	2.208	2.05	16510	0.01	2	
Co	59	2	He	2.165	2.165	2.53	30648	0.01	2	
Ni	60	2	He	2.300	2.300	0.84	8539	0.03	2	
Cu	63	2	He	2.318	2.318	2.30	22569	0.01	2	
Zn	66	2	He	2.552	2.552	3.62	5508	0.05	2	
Al	27	2	He	4.397	4.397	8.43	3847	0.11	2	NewName Main CR1 Failed
B	11	1	No Gas	11.993	11.993	1.49	48012	0.02	10	
Al	27	1	No Gas	3.973	3.973	7.84	140242	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.041	11.041	6.42	512457	0.00	10	
Ag	107	1	No Gas	2.120	2.120	3.75	61957	0.00	2	
Cd	111	1	No Gas	2.080	2.080	2.20	11945	0.02	2	
Sr	88	1	No Gas	2.276	2.276	2.00	134066	0.00	2	
Mo	95	1	No Gas	2.056	2.056	1.04	22903	0.01	2	
Sn	118	1	No Gas	2.160	2.160	3.63	47920	0.00	2	
Sb	121	1	No Gas	2.139	2.139	1.53	54552	0.00	2	
Ba	137	1	No Gas	2.393	2.393	2.79	24279	0.01	2	
Tl	205	1	No Gas	1.842	1.842	0.93	127557	0.00	2	
Tl	203	1	No Gas	1.915	1.915	2.20	54454	0.00	2	
Pb	208	1	No Gas	2.078	2.078	1.94	205375	0.00	2	
U	238	1	No Gas	1.966	1.966	2.01	210215	0.00	2	
Ca	43	2	He	266.477	266.477	18.95	873	30.51	200	NewName Main CR1 Failed
Sb	121	2	He	2.164	2.164	3.98	24663	0.01	2	
Ti	47	2	He	2.147	2.147	6.18	663	0.32	200	
Cu	63	1	No Gas	2.237	2.237	3.28	46586	0.00	2	
Se	82	1	No Gas	2.358	2.358	8.92	1243	0.19	2	
Zr	90	1	No Gas	1.793	1.793	3.66	67274	0.00	2	
Zr	90	2	He	1.900	1.900	2.82	28644	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1239564	0.51	1311506	94.51	70	120	
Ge	72	2	He	1001743	0.68	1024231	97.80	70	120	
Ge	72	1	No Gas	3510359	0.90	3625271	96.83	70	120	
In	115	1	No Gas	4725931	0.74	4826624	97.91	70	120	
Bi	209	1	No Gas	4972731	0.53	5040996	98.65	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:22:23-05:00
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	4.964	4.964	2.27	159916	0.00	5	
Be	9	1	No Gas	5.026	5.026	3.85	22855	0.02	5	
V	51	2	He	4.977	4.977	1.38	46220	0.01	5	
Cr	52	2	He	5.226	5.226	3.11	55639	0.01	5	
Fe	56	2	He	521.772	521.772	2.10	4629401	0.01	500	
Se	78	2	He	4.774	4.774	9.29	808	0.59	5	
As	75	2	He	5.154	5.154	3.32	7422	0.07	5	
Ca	44	2	He	519.756	519.756	1.64	28770	1.81	500	
Na	23	2	He	574.257	574.257	1.75	874163	0.07	500	
Mg	24	2	He	527.396	527.396	1.51	444332	0.12	500	
K	39	2	He	509.147	509.147	1.18	618180	0.08	500	
Mn	55	2	He	5.335	5.335	2.23	39156	0.01	5	
Co	59	2	He	5.271	5.271	1.64	74628	0.01	5	
Ni	60	2	He	5.393	5.393	4.33	19781	0.03	5	
Cu	63	2	He	5.221	5.221	4.01	50530	0.01	5	
Zn	66	2	He	5.401	5.401	1.57	10571	0.05	5	
Al	27	2	He	6.208	6.208	12.68	4874	0.13	5	
B	11	1	No Gas	25.581	25.581	1.09	82041	0.03	25	
Al	27	1	No Gas	5.625	5.625	2.31	174372	0.00	5	
Si	28	1	No Gas	25.790	25.790	0.80	667378	0.00	25	
Ag	107	1	No Gas	5.202	5.202	1.98	152259	0.00	5	
Cd	111	1	No Gas	5.007	5.007	1.50	28946	0.02	5	
Sr	88	1	No Gas	5.154	5.154	1.44	302243	0.00	5	
Mo	95	1	No Gas	4.974	4.974	2.07	55511	0.01	5	
Sn	118	1	No Gas	5.094	5.094	1.21	105705	0.00	5	
Sb	121	1	No Gas	5.176	5.176	0.87	131070	0.00	5	
Ba	137	1	No Gas	5.133	5.133	2.26	51585	0.01	5	
Tl	205	1	No Gas	4.951	4.951	1.59	342706	0.00	5	
Tl	203	1	No Gas	5.031	5.031	0.85	143078	0.00	5	
Pb	208	1	No Gas	5.053	5.053	1.83	497930	0.00	5	
U	238	1	No Gas	4.859	4.859	0.72	520948	0.00	5	
Ca	43	2	He	522.554	522.554	11.54	1683	31.04	500	
Sb	121	2	He	5.175	5.175	0.86	59078	0.01	5	
Ti	47	2	He	4.893	4.893	2.72	1517	0.32	5	
Cu	63	1	No Gas	5.351	5.351	0.30	107881	0.00	5	
Se	82	1	No Gas	4.873	4.873	11.40	2097	0.23	5	
Zr	90	1	No Gas	4.461	4.461	0.76	166289	0.00	5	
Zr	90	2	He	4.634	4.634	0.95	68158	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1234538	0.60	1311506	94.13	70	120	

Sample Report

Ge	72	2	He	1011062	0.80	1024231	98.71	70	120	
Ge	72	1	No Gas	3508086	0.50	3625271	96.77	70	120	
In	115	1	No Gas	4756222	0.73	4826624	98.54	70	120	
Bi	209	1	No Gas	5028036	0.84	5040996	99.74	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:24:47-05:00
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	0.019	82.1	70126	0.4	0.5	
Be	9	1	No Gas	0.051	17.1	373	10.8	0.5	
V	51	2	He	-0.122	-6.6	5378	2.4	2.5	
Cr	52	2	He	0.136	19.5	9624	2.5	2.5	
Fe	56	2	He	10.257	3.0	105736	3.8	100	
Se	78	2	He	-0.048	-158.3	144	6.4	1	
As	75	2	He	0.072	52.3	371	15.4	2.5	
Ca	44	2	He	58.325	5.9	3964	3.9	100	
Na	23	2	He	65.923	0.3	183184	1.3	100	
Mg	24	2	He	16.534	2.9	14988	2.3	100	
K	39	2	He	4.179	44.3	98835	0.8	100	
Mn	55	2	He	0.254	4.7	2604	3.2	2.5	
Co	59	2	He	0.075	3.8	1513	3.3	2.5	
Ni	60	2	He	0.214	20.8	1087	13.6	2.5	
Cu	63	2	He	0.129	9.7	1847	5.3	1	
Zn	66	2	He	0.858	3.8	2564	2.5	2.5	
Al	27	2	He	3.346	6.6	3294	3.1	5	
B	11	1	No Gas	1.394	8.6	21228	1.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.814	4.5	116321	1.5	5	
Si	28	1	No Gas	4.852	9.7	447496	0.4	10	
Ag	107	1	No Gas	0.056	15.4	2180	11.6	2.5	
Cd	111	1	No Gas	0.054	14.1	317	13.8	1	
Sr	88	1	No Gas	0.332	3.8	21955	3.5	2.5	
Mo	95	1	No Gas	0.071	18.3	970	14.9	2.5	
Sn	118	1	No Gas	0.132	16.2	8483	5.0	5	
Sb	121	1	No Gas	0.078	14.3	2590	11.7	2.5	
Ba	137	1	No Gas	0.306	10.8	3771	8.5	2.5	
Tl	205	1	No Gas	0.051	5.7	5875	3.1	1	
Tl	203	1	No Gas	0.055	9.0	2490	4.6	1	
Pb	208	1	No Gas	0.061	6.2	10709	2.9	2.5	
U	238	1	No Gas	0.049	7.4	8196	4.7	2.5	
Ca	43	2	He	37.637	61.1	163	44.3	100	
Sb	121	2	He	0.072	2.2	1140	1.5	2.5	
Ti	47	2	He	0.098	18.7	37	15.7	2.5	
Se	82	1	No Gas	-0.135	-119.9	397	13.9	1	
Zr	90	1	No Gas	0.140	12.9	6665	9.9	2.5	
Zr	90	2	He	0.125	7.9	3404	3.0	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	1240530	0.37	1311506	94.59	70	120	
Ge	72	2	He	1006196	1.20	1024231	98.24	70	120	
Ge	72	1	No Gas	3511854	0.77	3625271	96.87	70	120	
In	115	1	No Gas	4755517	0.23	4826624	98.53	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4983861	0.91	5040996	98.87	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:31:37-05:00
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	0.402	16.7	73158	2.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.040	24.2	310	13.8	0	ICSA Main CR1 Failed
V	51	2	He	0.108	12.3	6981	1.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.887	5.2	15866	2.1	0	ICSA Main CR1 Failed
Fe	56	2	He	104065.120	1.0	887599560	0.8	0	
Se	78	2	He	0.045	259.2	152	10.4	0	ICSA Main CR1 Failed
As	75	2	He	0.466	7.2	886	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	103526.129	1.5	5363905	1.3	0	
Na	23	2	He	104988.990	1.0	137562371	0.8	0	
Mg	24	2	He	104432.673	1.9	84640867	1.7	0	
K	39	2	He	104873.469	1.7	104026042	1.5	0	
Mn	55	2	He	1.903	2.2	13957	2.2	0	ICSA Main CR1 Failed
Co	59	2	He	1.053	2.0	14745	2.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.173	3.6	4394	3.0	0	ICSA Main CR1 Failed
Cu	63	2	He	0.745	3.0	7475	2.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.199	4.7	6458	3.5	0	ICSA Main CR1 Failed
Al	27	2	He	107490.812	2.0	56576767	1.9	0	
B	11	1	No Gas	2.226	5.9	22126	0.6	0	
Al	27	1	No Gas	99157.656	2.8	1956115918	1.4	0	
Si	28	1	No Gas	31.187	3.7	690922	3.0	0	
Ag	107	1	No Gas	0.037	8.5	1490	4.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.767	8.7	4062	9.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.951	1.5	53034	0.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2052.198	2.3	20893881	0.8	0	
Sn	118	1	No Gas	0.214	15.6	9240	5.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.104	14.9	3070	10.7	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.466	3.1	4904	2.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	24.4	3194	9.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.023	4.9	1420	0.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.922	1.6	84008	0.2	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	6.7	4594	2.6	0	ICSA Main CR1 Failed
Ca	43	2	He	101572.100	1.7	306977	1.4	0	
Sb	121	2	He	0.091	22.4	1313	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2098.088	1.3	624667	1.1	0	
Se	82	1	No Gas	0.192	51.6	483	5.2	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1176516	1.47	1311506	89.71	70	120	
Ge	72	2	He	975218	0.45	1024231	95.21	70	120	
Ge	72	1	No Gas	3346497	1.41	3625271	92.31	70	120	
In	115	1	No Gas	4354521	1.63	4826624	90.22	70	120	
Bi	209	1	No Gas	4453690	1.29	5040996	88.35	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	028ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:34:07-05:00
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	100.769	2.436	1853517	1.25	100	100.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	94.717	3.401	416224	2.31	100	94.7	80	120	
V	51	2	He	106.085	3.356	842507	1.92	100	106.1	80	120	
Cr	52	2	He	105.779	3.691	948915	2.30	100	105.8	80	120	
Fe	56	2	He	113019.480	3.191	984034252	1.76	100	113019.5	80	120	
Se	78	2	He	109.393	3.572	14962	2.24	100	109.4	80	120	
As	75	2	He	109.267	2.246	149541	0.79	100	109.3	80	120	
Ca	44	2	He	112979.751	2.893	5975697	1.47	100	112979.8	80	120	
Na	23	2	He	115465.714	3.136	154430901	1.79	100	115465.7	80	120	
Mg	24	2	He	113598.350	3.360	93984719	1.95	100	113598.3	80	120	
K	39	2	He	114484.776	2.867	115918375	1.41	100	114484.8	80	120	
Mn	55	2	He	105.914	3.648	750712	2.27	100	105.9	80	120	
Co	59	2	He	104.674	3.523	1450416	2.11	100	104.7	80	120	
Ni	60	2	He	102.423	3.723	364097	2.36	100	102.4	80	120	
Cu	63	2	He	101.031	2.656	951520	1.24	100	101.0	80	120	
Zn	66	2	He	105.865	1.906	184523	0.72	100	105.9	80	120	
Al	27	2	He	105915.734	3.164	56908519	1.77	100	105915.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	511.520	2.427	1269901	1.29	100	511.5	80	120	
Al	27	1	No Gas	97956.378	1.878	1988718157	1.32	100	97956.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	548.728	1.350	6056455	0.76	100	548.7	80	120	
Ag	107	1	No Gas	101.051	2.852	2797575	2.06	100	101.1	80	120	
Cd	111	1	No Gas	102.650	2.680	563220	1.81	100	102.6	80	120	
Sr	88	1	No Gas	106.801	2.337	5894592	1.52	100	106.8	80	120	
Mo	95	1	No Gas	2124.316	2.788	22429511	1.94	100	2124.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.020	2.333	1939952	1.47	100	104.0	80	120	
Sb	121	1	No Gas	103.787	2.104	2568058	1.54	100	103.8	80	120	
Ba	137	1	No Gas	103.756	2.129	976293	1.52	100	103.8	80	120	
Tl	205	1	No Gas	93.558	2.054	5862032	1.94	100	93.6	80	120	
Tl	203	1	No Gas	93.195	2.174	2400291	1.98	100	93.2	80	120	
Pb	208	1	No Gas	106.785	1.811	9500810	1.71	100	106.8	80	120	
U	238	1	No Gas	107.975	1.531	10492153	1.36	100	108.0	80	120	
Ca	43	2	He	109610.718	2.886	338178	1.49	100	109610.7	80	120	
Sb	121	2	He	104.464	4.158	1167849	2.94	100	104.5	80	120	
Ti	47	2	He	2170.275	3.062	659619	1.61	100	2170.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	99.202	1.725	1920038	1.17	100	99.2	80	120	
Se	82	1	No Gas	108.277	2.461	36513	1.87	100	108.3	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	1200658	1.09	1311506	91.55	70	120	
Ge	72	2	He	995805	1.48	1024231	97.22	70	120	
Ge	72	1	No Gas	3443358	0.56	3625271	94.98	70	120	
In	115	1	No Gas	4515532	0.91	4826624	93.55	70	120	
Bi	209	1	No Gas	4582613	0.39	5040996	90.91	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	033_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:52:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.726	2.870	1663970	2.86	100	96.7	90	110	
Be	9	1	No Gas	97.928	2.434	401883	2.51	100	97.9	90	110	
V	51	2	He	98.999	1.916	775883	2.06	100	99.0	90	110	
Cr	52	2	He	99.945	1.702	884798	2.05	100	99.9	90	110	
Fe	56	2	He	9923.979	1.472	85234640	1.54	10000	99.2	90	110	
Se	78	2	He	100.015	2.490	13503	2.16	100	100.0	90	110	
As	75	2	He	99.217	1.186	133935	1.17	100	99.2	90	110	
Ca	44	2	He	9716.968	1.485	507644	1.62	10000	97.2	90	110	
Na	23	2	He	9729.978	1.953	12918961	2.02	10000	97.3	90	110	
Mg	24	2	He	9784.549	1.429	7985408	1.63	10000	97.8	90	110	
K	39	2	He	9800.020	1.498	9871014	1.78	10000	98.0	90	110	
Mn	55	2	He	99.572	1.342	696153	1.40	100	99.6	90	110	
Co	59	2	He	100.578	2.109	1374603	2.12	100	100.6	90	110	
Ni	60	2	He	100.144	1.464	351128	1.45	100	100.1	90	110	
Cu	63	2	He	100.404	2.290	932584	2.16	100	100.4	90	110	
Zn	66	2	He	100.642	2.867	173040	2.81	100	100.6	90	110	
Al	27	2	He	99.470	1.525	54151	1.29	100	99.5	90	110	
B	11	1	No Gas	482.612	1.755	1119759	1.84	500	96.5	90	110	
Al	27	1	No Gas	97.131	3.383	1995640	2.57	100	97.1	90	110	
Si	28	1	No Gas	477.567	3.727	5234200	2.74	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.902	2.840	2820332	2.55	100	99.9	90	110	
Cd	111	1	No Gas	97.830	2.953	547369	2.71	100	97.8	90	110	
Sr	88	1	No Gas	97.380	2.598	5480784	2.32	100	97.4	90	110	
Mo	95	1	No Gas	96.338	3.660	1037369	3.27	100	96.3	90	110	
Sn	118	1	No Gas	99.055	2.263	1884031	1.91	100	99.1	90	110	
Sb	121	1	No Gas	100.677	3.173	2450413	2.45	100	100.7	90	110	
Ba	137	1	No Gas	97.217	2.728	932797	2.35	100	97.2	90	110	
Tl	205	1	No Gas	101.506	2.816	6721182	2.40	100	101.5	90	110	
Tl	203	1	No Gas	100.915	3.127	2746732	2.71	100	100.9	90	110	
Pb	208	1	No Gas	98.773	2.421	9287785	2.02	100	98.8	90	110	
U	238	1	No Gas	96.435	2.148	9903843	1.75	100	96.4	90	110	
Ca	43	2	He	10104.404	5.433	30784	5.22	10000	101.0	90	110	
Sb	121	2	He	98.690	2.313	1088253	2.41	100	98.7	90	110	
Ti	47	2	He	98.974	1.081	29675	1.41	100	99.0	90	110	
Cu	63	1	No Gas	99.561	2.826	1895488	2.16	100	99.6	90	110	
Se	82	1	No Gas	96.843	1.521	32172	1.13	100	96.8	90	110	
Zr	90	1	No Gas	83.327	3.431	2981302	3.11	100	83.3	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.218	1.715	1175805	1.86	100	84.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1121003	0.17	1311506	85.47	70	120	
Ge	72	2	He	981848	0.63	1024231	95.86	70	120	
Ge	72	1	No Gas	3387313	0.73	3625271	93.44	70	120	
In	115	1	No Gas	4604167	0.52	4826624	95.39	70	120	
Bi	209	1	No Gas	4843283	0.42	5040996	96.08	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	034_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:55:01-05:00
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	0.019	155.0	67482	0.5	0.5	
Be	9	1	No Gas	0.035	28.1	292	15.0	0.5	
V	51	2	He	-0.493	-2.4	2400	4.2	2.5	
Cr	52	2	He	0.132	60.3	9510	7.7	2.5	
Fe	56	2	He	4.838	11.2	57566	7.9	100	
Se	78	2	He	0.029	158.3	153	4.0	2	
As	75	2	He	0.035	23.8	317	3.8	2.5	
Ca	44	2	He	19.084	12.1	1853	6.9	100	
Na	23	2	He	9.514	11.8	106153	1.4	100	
Mg	24	2	He	0.947	20.0	1940	7.9	100	
K	39	2	He	6.896	4.3	100849	0.5	100	
Mn	55	2	He	0.571	0.9	4834	0.7	2.5	
Co	59	2	He	0.021	45.7	750	17.6	2.5	
Ni	60	2	He	0.518	15.3	2164	13.3	2.5	
Cu	63	2	He	0.148	3.4	2014	2.7	2	
Zn	66	2	He	3.089	4.2	6422	3.1	2.5	CCB Main CR1 Failed
Al	27	2	He	5.124	5.4	4227	3.4	5	CCB Main CR1 Failed
B	11	1	No Gas	1.611	38.1	20959	7.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	4.772	2.1	156667	1.3	5	
Si	28	1	No Gas	-1.933	-7.9	375523	0.4	10	
Ag	107	1	No Gas	0.485	20.1	14558	19.7	2.5	
Cd	111	1	No Gas	0.001	741.3	5	435.9	1	
Sr	88	1	No Gas	0.000	-946.6	2630	7.3	2.5	
Mo	95	1	No Gas	0.120	17.9	1500	15.6	2.5	
Sn	118	1	No Gas	0.201	11.7	9744	4.3	5	
Sb	121	1	No Gas	0.194	5.4	5488	4.8	2.5	
Ba	137	1	No Gas	0.012	56.8	847	7.9	2.5	
Tl	205	1	No Gas	0.053	40.7	5992	25.5	1	
Tl	203	1	No Gas	0.052	37.2	2404	23.4	1	
Pb	208	1	No Gas	0.022	10.3	6914	4.0	2.5	
U	238	1	No Gas	0.009	38.2	3944	8.1	2.5	
Ca	43	2	He	23.033	66.2	117	40.5	100	
Sb	121	2	He	0.179	3.6	2337	3.5	2.5	
Ti	47	2	He	0.077	127.7	30	100.0	2.5	
Cu	63	1	No Gas	0.137	14.3	5188	7.4	2.5	
Se	82	1	No Gas	-0.320	-50.9	333	16.5	2	
Zr	90	1	No Gas	0.089	12.6	4731	8.4	2.5	
Zr	90	2	He	0.066	5.3	2554	1.6	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	1193841	0.29	1311506	91.03	70	120	
Ge	72	2	He	998489	0.38	1024231	97.49	70	120	
Ge	72	1	No Gas	3507060	0.11	3625271	96.74	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4705548	0.37	4826624	97.49	70	120	
Bi	209	1	No Gas	4980439	1.04	5040996	98.80	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:15:58-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
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	3.192	15.958	3.00	135255	0.00	2000	
Be	9	1	No Gas	0.004	0.021	48.60	172	0.00	2000	
V	51	2	He	0.152	0.759	9.35	7409	0.00	2000	
Cr	52	2	He	-0.144	-0.721	-24.68	6965	0.00	2000	
Fe	56	2	He	47.713	238.564	2.03	426857	0.01	200000	
Se	78	2	He	0.172	0.858	61.67	171	0.10	2000	
As	75	2	He	0.106	0.529	41.73	409	0.03	2000	
Ca	44	2	He	3426.752	17133.760	1.53	180434	1.90	200000	
Na	23	2	He	39831.359	199156.797	1.71	52857528	0.08	200000	
Mg	24	2	He	1892.473	9462.366	1.46	1552923	0.12	200000	
K	39	2	He	243.842	1219.212	3.11	337220	0.07	200000	
Mn	55	2	He	59.724	298.622	4.95	419874	0.01	2000	
Co	59	2	He	0.281	1.407	11.38	4318	0.01	2000	
Ni	60	2	He	0.490	2.451	7.59	2040	0.02	2000	
Cu	63	2	He	0.140	0.701	5.97	1917	0.01	2000	
Zn	66	2	He	0.801	4.005	7.70	2417	0.03	2000	
Al	27	2	He	0.698	3.492	46.78	1820	0.04	2000	
B	11	1	No Gas	0.338	1.691	18.45	19570	0.00	2000	
Al	27	1	No Gas	0.406	2.031	41.33	66028	0.00	2000	
Si	28	1	No Gas	5116.943	25584.714	2.49	53933068	0.01	2000	>LDR
Ag	107	1	No Gas	0.091	0.453	34.15	3034	0.00	2000	
Cd	111	1	No Gas	0.022	0.112	58.23	125	0.02	2000	
Sr	88	1	No Gas	53.301	266.504	2.52	2939345	0.00	2000	
Mo	95	1	No Gas	0.047	0.233	12.50	660	0.01	2000	
Sn	118	1	No Gas	-0.098	-0.489	-7.44	3784	0.00	2000	
Sb	121	1	No Gas	0.041	0.205	24.20	1633	0.00	2000	
Ba	137	1	No Gas	41.913	209.567	2.31	394298	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-16759.67	2210	0.00	2000	
Tl	203	1	No Gas	0.005	0.023	76.92	1000	0.00	2000	
Pb	208	1	No Gas	0.133	0.663	1.25	16321	0.00	2000	
U	238	1	No Gas	0.122	0.612	3.52	14729	0.00	2000	
Ca	43	2	He	3421.550	17107.751	5.65	10504	32.57	200000	
Sb	121	2	He	0.037	0.183	13.46	727	0.01	2000	
Ti	47	2	He	0.277	1.386	42.58	90	0.31	2000	
Cu	63	1	No Gas	0.511	2.553	6.13	12479	0.00	2000	
Ca	44	1	No Gas	3375.444	16877.220	2.57	2678437	0.13	200000	
Zn	66	1	No Gas	0.953	4.765	9.97	7352	0.01	2000	
Se	82	1	No Gas	-0.118	-0.592	-269.93	400	-0.03	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	1308436	0.37	1311506	99.77	70	120	
Ge	72	2	He	986673	0.49	1024231	96.33	70	120	
Ge	72	1	No Gas	3488473	1.30	3625271	96.23	70	120	

Sample Report

In	115	1	No Gas	4509714	0.81	4826624	93.43	70	120	
Bi	209	1	No Gas	4605533	0.82	5040996	91.36	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:18:22-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	15.975	15.975	1.28	399778	0.00	2000	
Be	9	1	No Gas	103.992	103.992	1.67	521055	0.02	2000	
V	51	2	He	108.074	108.074	1.24	791272	0.01	2000	
Cr	52	2	He	108.451	108.451	1.57	896865	0.01	2000	
Fe	56	2	He	11192.131	11192.131	1.04	89861892	0.01	200000	
Se	78	2	He	115.767	115.767	1.85	14591	0.79	2000	
As	75	2	He	116.198	116.198	1.23	146598	0.08	2000	
Ca	44	2	He	29136.952	29136.952	1.98	1421529	2.05	200000	
Na	23	2	He	214109.052	214109.052	1.50	263954589	0.08	200000	>LDR
Mg	24	2	He	21264.701	21264.701	1.53	16222373	0.13	200000	
K	39	2	He	13150.260	13150.260	1.68	12352814	0.11	200000	
Mn	55	2	He	412.045	412.045	2.08	2691007	0.02	2000	
Co	59	2	He	110.313	110.313	1.08	1409374	0.01	2000	
Ni	60	2	He	108.647	108.647	0.81	356097	0.03	2000	
Cu	63	2	He	108.068	108.068	1.07	938360	0.01	2000	
Zn	66	2	He	118.677	118.677	1.55	190587	0.06	2000	
Al	27	2	He	117.288	117.288	1.60	59452	0.20	2000	
B	11	1	No Gas	8.452	8.452	1.82	43127	0.02	2000	
Al	27	1	No Gas	116.684	116.684	1.14	2347502	0.00	2000	
Si	28	1	No Gas	27109.486	27109.486	0.77	271316283	0.01	2000	>LDR
Ag	107	1	No Gas	108.214	108.214	5.38	2788493	0.00	2000	
Cd	111	1	No Gas	107.440	107.440	1.74	549019	0.02	2000	
Sr	88	1	No Gas	268.263	268.263	0.76	13783683	0.00	2000	
Mo	95	1	No Gas	82.876	82.876	2.62	814722	0.01	2000	
Sn	118	1	No Gas	-0.258	-0.258	-3.61	747	-0.03	2000	
Sb	121	1	No Gas	98.303	98.303	0.56	2353635	0.00	2000	
Ba	137	1	No Gas	319.515	319.515	1.40	2798467	0.01	2000	
Tl	205	1	No Gas	86.831	86.831	2.11	6312512	0.00	2000	
Tl	203	1	No Gas	86.154	86.154	2.67	2574218	0.00	2000	
Pb	208	1	No Gas	81.430	81.430	1.80	8409465	0.00	2000	
U	238	1	No Gas	0.487	0.487	0.47	58090	0.00	2000	
Ca	43	2	He	29090.614	29090.614	2.72	82789	35.14	200000	
Sb	121	2	He	100.741	100.741	1.06	1038428	0.01	2000	
Ti	47	2	He	114.127	114.127	2.53	31990	0.36	2000	
Cu	63	1	No Gas	111.695	111.695	0.68	2091617	0.01	2000	
Ca	44	1	No Gas	27853.963	27853.963	0.77	20853393	0.13	200000	
Zn	66	1	No Gas	115.229	115.229	1.65	558231	0.02	2000	
Se	82	1	No Gas	108.551	108.551	2.99	35427	0.31	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	1368566	1.28	1311506	104.35	70	120	
Ge	72	2	He	917824	0.88	1024231	89.61	70	120	
Ge	72	1	No Gas	3331451	2.34	3625271	91.90	70	120	
In	115	1	No Gas	4203975	1.85	4826624	87.10	70	120	
Bi	209	1	No Gas	5318721	3.61	5040996	105.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:20:49-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	16.126	16.126	2.20	397833	0.00	2000	
Be	9	1	No Gas	102.134	102.134	1.33	505373	0.02	2000	
V	51	2	He	105.780	105.780	2.96	766091	0.01	2000	
Cr	52	2	He	106.488	106.488	2.95	871070	0.01	2000	
Fe	56	2	He	10967.891	10967.891	2.16	87100595	0.01	200000	
Se	78	2	He	113.730	113.730	2.44	14180	0.80	2000	
As	75	2	He	115.167	115.167	2.32	143708	0.08	2000	
Ca	44	2	He	29188.204	29188.204	2.69	1408358	2.07	200000	
Na	23	2	He	215886.018	215886.018	2.69	263226463	0.08	200000	>LDR
Mg	24	2	He	21195.656	21195.656	2.75	15992016	0.13	200000	
K	39	2	He	12938.482	12938.482	2.82	12021195	0.11	200000	
Mn	55	2	He	414.661	414.661	4.42	2677447	0.02	2000	
Co	59	2	He	107.662	107.662	2.31	1360564	0.01	2000	
Ni	60	2	He	106.594	106.594	2.21	345561	0.03	2000	
Cu	63	2	He	107.096	107.096	1.80	919817	0.01	2000	
Zn	66	2	He	117.456	117.456	3.16	186537	0.06	2000	
Al	27	2	He	114.339	114.339	4.44	57337	0.20	2000	
B	11	1	No Gas	8.748	8.748	1.77	43409	0.02	2000	
Al	27	1	No Gas	119.609	119.609	2.52	2282262	0.01	2000	
Si	28	1	No Gas	27876.504	27876.504	1.83	264748023	0.01	2000	>LDR
Ag	107	1	No Gas	111.020	111.020	5.25	2670786	0.00	2000	
Cd	111	1	No Gas	107.811	107.811	2.37	513961	0.02	2000	
Sr	88	1	No Gas	278.652	278.652	1.94	13358818	0.00	2000	
Mo	95	1	No Gas	85.389	85.389	1.00	783646	0.01	2000	
Sn	118	1	No Gas	-0.255	-0.255	-3.69	757	-0.03	2000	
Sb	121	1	No Gas	97.048	97.048	0.90	2205143	0.00	2000	
Ba	137	1	No Gas	323.061	323.061	2.29	2639729	0.01	2000	
Tl	205	1	No Gas	82.660	82.660	1.63	5801931	0.00	2000	
Tl	203	1	No Gas	82.045	82.045	1.67	2367247	0.00	2000	
Pb	208	1	No Gas	77.638	77.638	1.69	7739206	0.00	2000	
U	238	1	No Gas	0.478	0.478	1.55	55170	0.00	2000	
Ca	43	2	He	28982.165	28982.165	3.07	81558	35.54	200000	
Sb	121	2	He	100.350	100.350	2.52	1023140	0.01	2000	
Ti	47	2	He	112.928	112.928	2.08	31306	0.36	2000	
Cu	63	1	No Gas	111.980	111.980	0.94	1989913	0.01	2000	
Ca	44	1	No Gas	28352.300	28352.300	1.13	20142028	0.14	200000	
Zn	66	1	No Gas	114.609	114.609	1.47	526811	0.02	2000	
Se	82	1	No Gas	109.002	109.002	1.34	33752	0.32	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	1351698	0.44	1311506	103.06	70	120	
Ge	72	2	He	908181	2.73	1024231	88.67	70	120	
Ge	72	1	No Gas	3161782	0.38	3625271	87.22	70	120	
In	115	1	No Gas	3923441	1.38	4826624	81.29	70	120	
Bi	209	1	No Gas	5133825	1.47	5040996	101.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:23:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	16.403	16.403	3.12	404203	0.00	2000	
Be	9	1	No Gas	102.913	102.913	3.14	510232	0.02	2000	
V	51	2	He	103.206	103.206	2.11	750261	0.01	2000	
Cr	52	2	He	104.473	104.473	1.72	857794	0.01	2000	
Fe	56	2	He	10771.334	10771.334	1.67	85840089	0.01	200000	
Se	78	2	He	113.924	113.924	1.71	14253	0.80	2000	
As	75	2	He	112.735	112.735	2.16	141174	0.08	2000	
Ca	44	2	He	28656.868	28656.868	1.71	1387655	2.07	200000	
Na	23	2	He	212071.389	212071.389	2.11	259492143	0.08	200000	>LDR
Mg	24	2	He	20697.084	20697.084	1.85	15671514	0.13	200000	
K	39	2	He	12662.452	12662.452	1.48	11809089	0.11	200000	
Mn	55	2	He	403.051	403.051	1.76	2612515	0.02	2000	
Co	59	2	He	105.522	105.522	1.76	1338156	0.01	2000	
Ni	60	2	He	104.892	104.892	1.02	341243	0.03	2000	
Cu	63	2	He	104.320	104.320	1.13	899076	0.01	2000	
Zn	66	2	He	115.874	115.874	2.47	184720	0.06	2000	
Al	27	2	He	112.946	112.946	1.26	56875	0.20	2000	
B	11	1	No Gas	8.577	8.577	4.74	43025	0.02	2000	
Al	27	1	No Gas	118.919	118.919	2.32	2236397	0.01	2000	
Si	28	1	No Gas	28693.372	28693.372	2.37	268574523	0.01	2000	>LDR
Ag	107	1	No Gas	108.164	108.164	2.97	2573963	0.00	2000	
Cd	111	1	No Gas	107.454	107.454	2.13	506808	0.02	2000	
Sr	88	1	No Gas	279.508	279.508	1.65	13256844	0.00	2000	
Mo	95	1	No Gas	84.743	84.743	1.45	769312	0.01	2000	
Sn	118	1	No Gas	-0.260	-0.260	-1.22	660	-0.04	2000	
Sb	121	1	No Gas	97.097	97.097	2.57	2174395	0.00	2000	
Ba	137	1	No Gas	326.053	326.053	1.38	2635840	0.01	2000	
Tl	205	1	No Gas	82.136	82.136	2.34	5730432	0.00	2000	
Tl	203	1	No Gas	82.147	82.147	3.29	2355478	0.00	2000	
Pb	208	1	No Gas	77.336	77.336	2.20	7662924	0.00	2000	
U	238	1	No Gas	0.475	0.475	4.33	54393	0.00	2000	
Ca	43	2	He	28848.818	28848.818	2.11	81481	35.41	200000	
Sb	121	2	He	97.907	97.907	1.87	1001733	0.01	2000	
Ti	47	2	He	110.992	110.992	3.01	30878	0.36	2000	
Cu	63	1	No Gas	111.704	111.704	1.78	1956420	0.01	2000	
Ca	44	1	No Gas	28683.627	28683.627	2.31	20083049	0.14	200000	
Zn	66	1	No Gas	113.918	113.918	1.69	516144	0.02	2000	
Se	82	1	No Gas	108.049	108.049	4.55	32970	0.33	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	1354736	1.56	1311506	103.30	70	120	
Ge	72	2	He	911032	0.50	1024231	88.95	70	120	
Ge	72	1	No Gas	3116664	1.45	3625271	85.97	70	120	
In	115	1	No Gas	3881112	0.74	4826624	80.41	70	120	
Bi	209	1	No Gas	5104647	3.15	5040996	101.26	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:33:12-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.283	1.798	1848806	3.32	100	96.3	90	110	
Be	9	1	No Gas	95.472	1.389	437237	2.90	100	95.5	90	110	
V	51	2	He	104.049	2.010	774203	1.77	100	104.0	90	110	
Cr	52	2	He	104.550	2.064	878698	1.81	100	104.6	90	110	
Fe	56	2	He	10275.487	1.600	83823912	1.58	10000	102.8	90	110	
Se	78	2	He	101.165	1.308	12973	1.75	100	101.2	90	110	
As	75	2	He	103.607	1.679	132827	1.33	100	103.6	90	110	
Ca	44	2	He	10246.287	2.043	508374	1.85	10000	102.5	90	110	
Na	23	2	He	10427.595	1.856	13143728	1.61	10000	104.3	90	110	
Mg	24	2	He	10465.224	2.129	8112032	2.06	10000	104.7	90	110	
K	39	2	He	10397.938	2.174	9941929	2.06	10000	104.0	90	110	
Mn	55	2	He	104.016	1.747	690678	1.47	100	104.0	90	110	
Co	59	2	He	103.596	1.894	1344782	1.88	100	103.6	90	110	
Ni	60	2	He	104.388	2.224	347646	2.46	100	104.4	90	110	
Cu	63	2	He	103.851	1.539	916185	1.47	100	103.9	90	110	
Zn	66	2	He	103.778	2.412	169443	2.16	100	103.8	90	110	
Al	27	2	He	104.669	2.305	54050	2.11	100	104.7	90	110	
B	11	1	No Gas	455.806	0.842	1181123	2.40	500	91.2	90	110	
Al	27	1	No Gas	104.583	2.291	2088441	2.34	100	104.6	90	110	
Si	28	1	No Gas	521.350	3.672	5531098	3.79	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.630	1.802	2708671	2.07	100	102.6	90	110	
Cd	111	1	No Gas	100.648	2.100	526480	2.51	100	100.6	90	110	
Sr	88	1	No Gas	102.342	2.048	5384774	2.21	100	102.3	90	110	
Mo	95	1	No Gas	100.486	2.609	1011663	3.05	100	100.5	90	110	
Sn	118	1	No Gas	101.137	1.271	1798277	1.64	100	101.1	90	110	
Sb	121	1	No Gas	99.171	1.862	2350759	2.17	100	99.2	90	110	
Ba	137	1	No Gas	100.189	1.862	898717	2.16	100	100.2	90	110	
Tl	205	1	No Gas	104.016	2.046	6329561	2.47	100	104.0	90	110	
Tl	203	1	No Gas	103.468	1.311	2588125	1.79	100	103.5	90	110	
Pb	208	1	No Gas	101.010	1.988	8728486	2.26	100	101.0	90	110	
U	238	1	No Gas	97.681	1.437	9218801	1.65	100	97.7	90	110	
Ca	43	2	He	10325.075	2.413	29879	2.35	10000	103.3	90	110	
Sb	121	2	He	100.991	1.795	1057726	1.82	100	101.0	90	110	
Ti	47	2	He	105.644	1.276	30086	1.86	100	105.6	90	110	
Cu	63	1	No Gas	102.933	1.408	1908352	1.50	100	102.9	90	110	
Se	82	1	No Gas	98.275	2.156	31788	2.66	100	98.3	90	110	
Zr	90	1	No Gas	87.929	2.314	2941106	2.54	100	87.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	86.847	2.053	1151565	1.85	100	86.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1250833	1.60	1311506	95.37	70	120	
Ge	72	2	He	932591	0.83	1024231	91.05	70	120	
Ge	72	1	No Gas	3298332	0.79	3625271	90.98	70	120	
In	115	1	No Gas	4304087	0.89	4826624	89.17	70	120	
Bi	209	1	No Gas	4450495	0.62	5040996	88.29	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:35:36-05:00
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	0.237	15.5	73855	0.9	0.5	
Be	9	1	No Gas	0.006	86.3	170	13.5	0.5	
V	51	2	He	0.176	5.3	7186	0.1	2.5	
Cr	52	2	He	0.112	34.9	8720	2.9	2.5	
Fe	56	2	He	4.274	2.2	49198	1.8	100	
Se	78	2	He	0.225	94.8	168	15.5	2	
As	75	2	He	0.084	22.5	358	6.0	2.5	
Ca	44	2	He	45.957	13.6	3064	10.3	100	
Na	23	2	He	33.742	1.3	129523	0.4	100	
Mg	24	2	He	1.830	3.9	2497	1.4	100	
K	39	2	He	9.415	14.9	96602	0.6	100	
Mn	55	2	He	0.179	3.3	1917	1.7	2.5	
Co	59	2	He	0.010	50.5	567	12.8	2.5	
Ni	60	2	He	0.155	18.9	813	11.7	2.5	
Cu	63	2	He	0.079	15.1	1273	7.6	2	
Zn	66	2	He	0.874	8.2	2404	5.5	2.5	
Al	27	2	He	2.554	21.8	2657	11.3	5	
B	11	1	No Gas	2.445	39.2	23807	10.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.530	11.6	103288	6.0	5	
Si	28	1	No Gas	6.578	3.5	435411	0.8	10	
Ag	107	1	No Gas	0.093	20.7	2964	16.7	2.5	
Cd	111	1	No Gas	0.002	228.9	11	190.0	1	
Sr	88	1	No Gas	0.109	6.0	8209	5.1	2.5	
Mo	95	1	No Gas	0.137	3.8	1553	3.9	2.5	
Sn	118	1	No Gas	0.113	20.9	7402	6.7	5	
Sb	121	1	No Gas	0.151	8.0	4144	7.4	2.5	
Ba	137	1	No Gas	0.233	6.9	2780	4.4	2.5	
Tl	205	1	No Gas	0.041	51.9	4754	28.4	1	
Tl	203	1	No Gas	0.045	45.9	2027	26.6	1	
Pb	208	1	No Gas	0.016	19.2	5811	4.5	2.5	
U	238	1	No Gas	0.003	42.8	3074	5.0	2.5	
Ca	43	2	He	63.773	14.2	227	11.1	100	
Sb	121	2	He	0.131	8.0	1670	5.7	2.5	
Ti	47	2	He	0.049	70.9	20	50.0	2.5	
Cu	63	1	No Gas	0.172	3.3	5505	2.4	2.5	
Se	82	1	No Gas	0.041	280.5	427	8.2	2	
Zr	90	1	No Gas	0.108	20.0	4988	15.3	2.5	
Zr	90	2	He	0.078	16.2	2540	5.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1236150	0.39	1311506	94.25	70	120	
Ge	72	2	He	932872	0.81	1024231	91.08	70	120	
Ge	72	1	No Gas	3283397	0.55	3625271	90.57	70	120	

Continuing Calibration Blank (CCB) Report

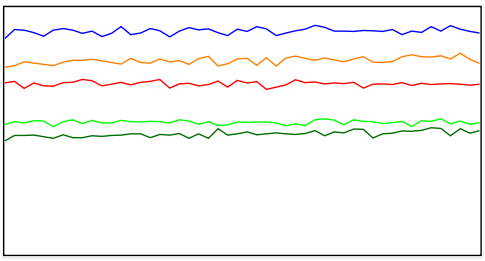
In	115	1	No Gas	4335697	0.93	4826624	89.83	70	120	
Bi	209	1	No Gas	4554468	0.53	5040996	90.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq. Date-Time	6/26/2024 9:44:19 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	6914	69141.63		
24	50000	26745	267454.27		
59	50000	45257	452570.16		
115	100000	78557	785565.27		
208	100000	48777	487773.85		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.335	5.000	
24	1.476	5.000	
59	1.329	5.000	
115	1.690	5.000	
208	2.491	5.000	

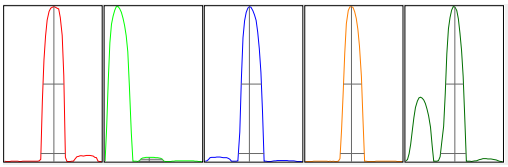
Mass	Background	Background (Required)	Background (Flag)
9	2.200		
24	1.700		
59	1.300		
115	1.400		
208	3.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.109 %
Doubly Charged	70 / 140 0.890 %

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	7001.27	9.05	8.90 - 9.10	
24	27121.43	23.90	23.90 - 24.10	
59	45960.25	58.90	58.90 - 59.10	
115	79360.88	114.95	114.90 - 115.10	
208	47685.70	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.743		
24	0.66	0.766		
59	0.62	0.780		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

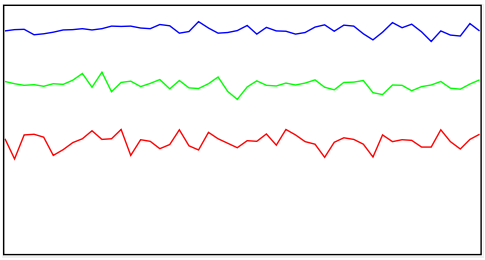
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	226	2262.38		
24	2000	1366	13661.16		
59	20000	18118	181179.61		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

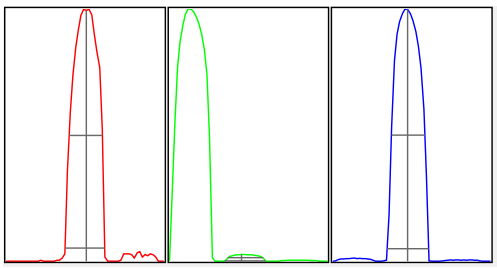
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.711	5.000	Fail
24	2.932	5.000	
59	1.861	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.600		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.428 %
Doubly Charged	70 / 140 0.809 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	236.78	9.05	8.90 - 9.10	
24	1431.78	23.90	23.90 - 24.10	
59	18623.73	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743		
24	0.66	0.766		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water	<2	10	10	1	1	DOD
HS24060694-01MS	A		<2	10	10	1	1	
HS24060694-01MSD	A		<2	10	10	1	1	
HS24060694-01PDS	A		<2	10	10	1	1	
HS24060694-01SD	A		<2	10	10	1	1	
HS24060694-02	C	Water	<2	10	10	1	1	
HS24060694-03	C	Water	<2	10	10	1	1	
HS24060694-06	C	Water	<2	10	10	1	1	
HS24060694-08	C	Water	<2	10	10	1	1	
HS24060747-03	C	Groundwater	<2	10	10	1	1	
HS24060747-05	C	Groundwater	<2	10	10	1	1	
HS24060747-07	C	Groundwater	<2	10	10	1	1	
HS24060747-09	C	Groundwater	<2	10	10	1	1	
HS24060795-03	C	Water	<2	10	10	1	1	
HS24060795-04	C	Water	<2	10	10	1	1	
HS24060795-05	C	Water	<2	10	10	1	1	
HS24060795-07	C	Water	<2	10	10	1	1	
HS24060795-08	C	Water	<2	10	10	1	1	
HS24060795-09	C	Water	<2	10	10	1	1	
HS24060899-03	C	Water	<2	10	10	1	1	
HS24060899-05	C	Water	<2	10	10	1	1	
HS24060899-07	C	Water	<2	10	10	1	1	
LCS-213798	A			10	10	1	1	
MBLK-213798	A			10	10	1	1	

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB9
3010A	Thermometer ID	S06761
3010A	Thermometer Location	F6
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water		10	10	1	1	
HS24060694-02	C	Water		10	10	1	1	
HS24060694-02MS	A			10	10	1	1	
HS24060694-02MSD	A			10	10	1	1	
HS24060694-03	C	Water		10	10	1	1	
HS24060694-06	C	Water		10	10	1	1	
HS24060694-08	C	Water		10	10	1	1	
HS24060747-03	C	Groundwater		10	10	1	1	
HS24060747-05	C	Groundwater		10	10	1	1	
HS24060747-07	C	Groundwater		10	10	1	1	
HS24060747-09	C	Groundwater		10	10	1	1	
HS24060795-03	C	Water		10	10	1	1	
HS24060795-04	C	Water		10	10	1	1	
HS24060795-05	C	Water		10	10	1	1	
HS24060795-07	C	Water		10	10	1	1	
HS24060795-08	C	Water		10	10	1	1	
HS24060795-09	C	Water		10	10	1	1	
HS24060899-03	C	Water		10	10	1	1	
HS24060899-05	C	Water		10	10	1	1	
HS24060899-07	C	Water		10	10	1	1	
LCS-214008	A			10	10	1	1	
MBLK-214008	A			10	10	1	1	

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

HS24060899 ALS Middletown Report 3366031_333106

ALS WO# HS24060899

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24060899
Workorder 3366031
Report ID 333106 on 6/28/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

Project HS24060899
Workorder 3366031

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366031001	MW12-061324	Ground Water	06/13/2024 07:15	06/26/2024 09:36	CBC	Collected By Client
3366031002	1824DPTMW06_061324	Ground Water	06/13/2024 08:00	06/26/2024 09:36	CBC	Collected By Client
3366031003	AWD4_061324	Ground Water	06/13/2024 08:45	06/26/2024 09:36	CBC	Collected By Client
3366031004	18CPTMW15_061324	Ground Water	06/13/2024 09:30	06/26/2024 09:36	CBC	Collected By Client
3366031005	18WW08_061324	Ground Water	06/13/2024 11:00	06/26/2024 09:36	CBC	Collected By Client
3366031006	18WW22_061324	Ground Water	06/13/2024 11:45	06/26/2024 09:36	CBC	Collected By Client
3366031007	CO4_061324	Ground Water	06/13/2024 12:30	06/26/2024 09:36	CBC	Collected By Client
3366031008	Trip Blank	Ground Water	06/13/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte cis-1,2-Dichloroethene. The % Recovery was reported as 126 and the control limits were 78 to 123.

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Detected Results Summary

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	2.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	6.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	56.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.79J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	421	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	0.97J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,2-Dichloroethane	1.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.42J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	8.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	12.3	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.88J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	2.9	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	2.1	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	18.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Vinyl Chloride	0.41J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.39J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	0.94J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.58J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.3	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Results

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloroethane	2.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloroethene	6.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
cis-1,2-Dichloroethene	56.9	1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 01:16	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 01:16	PDK	A

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Results

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
trans-1,2-Dichloroethene	0.79J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Trichloroethene	421		ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:29	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Vinyl Chloride	0.97J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	81 – 118	06/27/2024 18:29	
1,2-Dichloroethane-d4	17060-07-0	106%	81 – 118	06/27/2024 01:16	
4-Bromofluorobenzene	460-00-4	101%	85 – 114	06/27/2024 18:29	
4-Bromofluorobenzene	460-00-4	97%	85 – 114	06/27/2024 01:16	
Dibromofluoromethane	1868-53-7	106%	80 – 119	06/27/2024 18:29	
Dibromofluoromethane	1868-53-7	97.4%	80 – 119	06/27/2024 01:16	
Toluene-d8	2037-26-5	107%	89 – 112	06/27/2024 18:29	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 01:16	

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Results

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloroethane	1.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichloroethane	1.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloromethane	0.42J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
cis-1,2-Dichloroethene	8.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:50	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:50	ILY	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Trichloroethene	12.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.7%	81 – 118	06/27/2024 13:50	
4-Bromofluorobenzene	460-00-4	93.2%	85 – 114	06/27/2024 13:50	
Dibromofluoromethane	1868-53-7	96.9%	80 – 119	06/27/2024 13:50	
Toluene-d8	2037-26-5	96.5%	89 – 112	06/27/2024 13:50	

Project HS24060899
Workorder 3366031

Results

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
cis-1,2-Dichloroethene	0.88J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:10	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:10	ILY	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Trichloroethene	2.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 14:10	
4-Bromofluorobenzene	460-00-4	96.7%	85 – 114	06/27/2024 14:10	
Dibromofluoromethane	1868-53-7	98.1%	80 – 119	06/27/2024 14:10	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 14:10	

Project HS24060899
Workorder 3366031

Results

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichloroethane	0.44J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
cis-1,2-Dichloroethene	2.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:17	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:17	PDK	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Trichloroethene	18.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Vinyl Chloride	0.41J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	81 – 118	06/27/2024 02:17	
4-Bromofluorobenzene	460-00-4	99.3%	85 – 114	06/27/2024 02:17	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 02:17	
Toluene-d8	2037-26-5	104%	89 – 112	06/27/2024 02:17	

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Workorder 3366031

Results

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
cis-1,2-Dichloroethene	0.39J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:37	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:37	PDK	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Trichloroethene	0.94J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 02:37	
4-Bromofluorobenzene	460-00-4	97%	85 – 114	06/27/2024 02:37	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/27/2024 02:37	
Toluene-d8	2037-26-5	99.1%	89 – 112	06/27/2024 02:37	

Project HS24060899
Workorder 3366031

Results

Client Sample ID	18WW22_061324	Collected	06/13/2024 11:45
Lab Sample ID	3366031006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:58	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:58	PDK	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	18WW22_061324	Collected	06/13/2024 11:45
Lab Sample ID	3366031006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	118%	81 – 118	06/27/2024 02:58	
4-Bromofluorobenzene	460-00-4	108%	85 – 114	06/27/2024 02:58	
Dibromofluoromethane	1868-53-7	103%	80 – 119	06/27/2024 02:58	
Toluene-d8	2037-26-5	110%	89 – 112	06/27/2024 02:58	

Project HS24060899
Workorder 3366031

Results

Client Sample ID	CO4_061324	Collected	06/13/2024 12:30
Lab Sample ID	3366031007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 03:18	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 03:18	PDK	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	CO4_061324	Collected	06/13/2024 12:30
Lab Sample ID	3366031007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 03:18	
4-Bromofluorobenzene	460-00-4	94.5%	85 – 114	06/27/2024 03:18	
Dibromofluoromethane	1868-53-7	91.6%	80 – 119	06/27/2024 03:18	
Toluene-d8	2037-26-5	99.9%	89 – 112	06/27/2024 03:18	

Project HS24060899
Workorder 3366031

Results

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
cis-1,2-Dichloroethene	0.58J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 00:55	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 00:55	PDK	A

Project HS24060899
Workorder 3366031

Results

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Trichloroethene	1.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	81 – 118	06/27/2024 00:55	
4-Bromofluorobenzene	460-00-4	99.6%	85 – 114	06/27/2024 00:55	
Dibromofluoromethane	1868-53-7	95.4%	80 – 119	06/27/2024 00:55	
Toluene-d8	2037-26-5	106%	89 – 112	06/27/2024 00:55	

Project HS24060899
Workorder 3366031

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366031001	MW12-061324	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366031002	1824DPTMW06_061324	SW846 8260D	N/A	
3366031003	AWD4_061324	SW846 8260D	N/A	
3366031004	18CPTMW15_061324	SW846 8260D	N/A	
3366031005	18WW08_061324	SW846 8260D	N/A	
3366031006	18WW22_061324	SW846 8260D	N/A	
3366031007	CO4_061324	SW846 8260D	N/A	
3366031008	Trip Blank	SW846 8260D	N/A	

Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1234508	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366031007	3366031005	3366031008	3366031004
3366031006	3366031001		

Method Blank 3844895 (MB) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.30	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.90	30	92.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3844896 (LCS) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	20.20		20	101	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.90		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.70		20	118	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.20		20	111	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.90		20	104	79 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	LCS	19.90		20	99.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	22.80		20	114	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.90		20	124	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.50		20	107	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.20		20	90.8	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.60		20	97.9	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.30		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20.20		20	101	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.90		20	115	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	23.70		20	119	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.10		20	111	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	23.20		20	116	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.50		20	108	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	113		100	113	39 - 160		
Benzene	71-43-2	LCS	20		20	100	79 - 120		
Bromobenzene	108-86-1	LCS	22.40		20	112	80 - 120		
Bromochloromethane	74-97-5	LCS	21.70		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	19.40		20	97.1	79 - 125		
Bromoform	75-25-2	LCS	18.70		20	93.4	66 - 130		
Bromomethane	74-83-9	LCS	21.30		20	106	53 - 141		
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.80		20	88.9	72 - 136		
Chlorobenzene	108-90-7	LCS	21.60		20	108	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.70		20	93.4	74 - 126		
Chloroethane	75-00-3	LCS	20.10		20	101	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	20.60		20	103	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.40		20	107	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20		20	99.9	75 - 124		
Dibromomethane	74-95-3	LCS	21.10		20	106	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.30		20	102	32 - 152		
Ethylbenzene	100-41-4	LCS	20.40		20	102	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.80		20	114	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.30		20	122	72 - 131		
Methylene Chloride	75-09-2	LCS	20.50		20	103	74 - 124		
mp-Xylene	108383/106423	LCS	40.30		40	101	80 - 121		
Naphthalene	91-20-3	LCS	19.50		20	97.3	61 - 128		
n-Butylbenzene	104-51-8	LCS	23		20	115	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.90		20	114	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.50		20	118	79 - 122		
o-Xylene	95-47-6	LCS	20.10		20	101	78 - 122		
p-Chlorotoluene	106-43-4	LCS	24.20		20	121	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	22.70		20	114	77 - 127		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
sec-Butylbenzene	135-98-8	LCS	24.20		20	121	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	24.10		20	120	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.50		20	103	74 - 129		
Toluene	108-88-3	LCS	20.60		20	103	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20.90		20	105	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	100	73 - 127		
Trichloroethene	79-01-6	LCS	19.20		20	95.9	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.20		20	101	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.90	30	99.7	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	31.20	30	104	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.30	30	97.7	80 - 119	
Toluene-d8	2037-26-5	LCS	30.20	30	101	89 - 112	

Matrix Spike 3844909 (MS) 3366031001 For QC Batch 1234508

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3844910 (MSD) 3366031001 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.10	0	20	100	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.10	0	20	95.6	78 - 124	RPD 4.80 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.30	0	20	111	74 - 131	RPD 6.14 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.70	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	115	71 - 121	RPD 3.18 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.10	0	20	111	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	106	80 - 119	RPD 3.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	26.10	2.80	20	116	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	23.90	2.80	20	105	77 - 125	RPD 8.65 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	29.90	6.40	20	117	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	28.10	6.40	20	109	71 - 131	RPD 6.02 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.20	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.40	0	20	107	79 - 125	RPD 7.72 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	0	20	91	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.80	0	20	89.2	69 - 129	RPD 1.99 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.40	0	20	112	73 - 122		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichloropropane	96-18-4	MSD	22	0	20	110	73 - 122	RPD 1.98 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.30	0	20	112	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.10	0	20	111	69 - 130	RPD 0.92 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.20	0	20	106	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	20.50	0	20	103	76 - 124	RPD 3.16 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18	0	20	90.1	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18	0	20	90.1	62 - 128	RPD 0.04 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19.50	0	20	97.6	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.7	77 - 121	RPD 0.88 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	22.70	0	20	113	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	21.90	0	20	109	80 - 119	RPD 3.44 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	23.80	0	20	119	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	22	0	20	110	73 - 128	RPD 7.64 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.40	0	20	112	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.10	0	20	105	78 - 122	RPD 5.99 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.20	0	20	116	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.40	0	20	112	75 - 124	RPD 3.71 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.50	0	20	113	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	21.90	0	20	109	80 - 119	RPD 2.89 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.60	0	20	113	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.70	0	20	108	80 - 119	RPD 4.08 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.30	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	21.70	0	20	108	79 - 118	RPD 3.12 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.90	0	20	114	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20.30	0	20	101	60 - 139	RPD 11.90 (Max-30)	
2-Butanone	78-93-3	MS	101	0	100	101	56 - 143		
2-Butanone	78-93-3	MSD	95	0	100	95	56 - 143	RPD 6.52 (Max-30)	
2-Hexanone	591-78-6	MS	101	0	100	101	57 - 139		
2-Hexanone	591-78-6	MSD	97.40	0	100	97.4	57 - 139	RPD 3.82 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	104	0	100	104	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	67 - 130	RPD 3.57 (Max-30)	
Acetone	67-64-1	MS	97.60	0	100	97.6	39 - 160		
Acetone	67-64-1	MSD	94.10	0	100	94.1	39 - 160	RPD 3.72 (Max-30)	
Benzene	71-43-2	MS	22.30	0.24	20	110	79 - 120		
Benzene	71-43-2	MSD	20.50	0.24	20	101	79 - 120	RPD 8.48 (Max-30)	
Bromobenzene	108-86-1	MS	22.20	0	20	111	80 - 120		
Bromobenzene	108-86-1	MSD	21.20	0	20	106	80 - 120	RPD 4.61 (Max-30)	
Bromochloromethane	74-97-5	MS	22.70	0	20	113	78 - 123		
Bromochloromethane	74-97-5	MSD	21.10	0	20	106	78 - 123	RPD 7.20 (Max-30)	
Bromodichloromethane	75-27-4	MS	20	0	20	100	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.60	0	20	93	79 - 125	RPD 7.20 (Max-30)	
Bromoform	75-25-2	MS	17.60	0	20	87.9	66 - 130		
Bromoform	75-25-2	MSD	17.60	0	20	88	66 - 130	RPD 0.04 (Max-30)	
Bromomethane	74-83-9	MS	24.30	0	20	122	53 - 141		
Bromomethane	74-83-9	MSD	22.50	0	20	112	53 - 141	RPD 7.90 (Max-30)	
Carbon Disulfide	75-15-0	MS	22.30	0	20	111	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.50	0	20	103	64 - 133	RPD 8.27 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	20.40	0	20	102	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.60	0	20	92.8	72 - 136	RPD 9.62 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	MS	21.80	0	20	109	82 - 118		
Chlorobenzene	108-90-7	MSD	21.10	0	20	106	82 - 118	RPD 3.13 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.50	0	20	92.6	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.90	0	20	89.4	74 - 126	RPD 3.47 (Max-30)	
Chloroethane	75-00-3	MS	21.80	0	20	109	60 - 138		
Chloroethane	75-00-3	MSD	19.70	0	20	98.5	60 - 138	RPD 10.10 (Max-30)	
Chloroform	67-66-3	MS	22.60	0	20	113	79 - 124		
Chloroform	67-66-3	MSD	20.40	0	20	102	79 - 124	RPD 10.20 (Max-30)	
Chloromethane	74-87-3	MS	22.60	0	20	113	50 - 139		
Chloromethane	74-87-3	MSD	20.70	0	20	103	50 - 139	RPD 8.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	82.10	56.90	20	126*	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	76.20	56.90	20	96.3	78 - 123	RPD 7.51 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.30	0	20	96.6	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.20	0	20	91.1	75 - 124	RPD 5.85 (Max-30)	
Dibromomethane	74-95-3	MS	21.20	0	20	106	79 - 123		
Dibromomethane	74-95-3	MSD	20.50	0	20	102	79 - 123	RPD 3.61 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	21.70	0	20	109	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.6	32 - 152	RPD 10.80 (Max-30)	
Ethylbenzene	100-41-4	MS	20.80	0	20	104	79 - 121		
Ethylbenzene	100-41-4	MSD	19.90	0	20	99.3	79 - 121	RPD 4.44 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.80	0	20	99	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.20	0	20	101	66 - 134	RPD 1.78 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	23.50	0	20	118	72 - 131	RPD 3.44 (Max-30)	
Methylene Chloride	75-09-2	MS	21.70	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.30	0	20	101	74 - 124	RPD 6.84 (Max-30)	
mp-Xylene	108383/106423	MS	41.10	0	40	103	80 - 121		
mp-Xylene	108383/106423	MSD	39.30	0	40	98.2	80 - 121	RPD 4.43 (Max-30)	
Naphthalene	91-20-3	MS	18.50	0	20	92.5	61 - 128		
Naphthalene	91-20-3	MSD	17.90	0	20	89.6	61 - 128	RPD 3.18 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.70	0	20	113	75 - 128		
n-Butylbenzene	104-51-8	MSD	21.10	0	20	106	75 - 128	RPD 7 (Max-30)	
n-Propylbenzene	103-65-1	MS	23.70	0	20	118	76 - 126		
n-Propylbenzene	103-65-1	MSD	22.40	0	20	112	76 - 126	RPD 5.32 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.40	0	20	117	79 - 122		
o-Chlorotoluene	95-49-8	MSD	22.60	0	20	113	79 - 122	RPD 3.66 (Max-30)	
o-Xylene	95-47-6	MS	20.30	0	20	101	78 - 122		
o-Xylene	95-47-6	MSD	19.60	0	20	97.9	78 - 122	RPD 3.35 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.50	0	20	117	78 - 122		
p-Chlorotoluene	106-43-4	MSD	22.80	0	20	114	78 - 122	RPD 3.03 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.40	0	20	117	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	22.40	0	20	112	77 - 127	RPD 4.58 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.60	0	20	123	77 - 126		
sec-Butylbenzene	135-98-8	MSD	23.40	0	20	117	77 - 126	RPD 4.97 (Max-30)	
Styrene	100-42-5	MS	21.20	0	20	106	78 - 123		
Styrene	100-42-5	MSD	20	0	20	100	78 - 123	RPD 5.62 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24	0	20	120	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22.90	0	20	115	78 - 124	RPD 4.76 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Tetrachloroethene	127-18-4	MS	20.90	0	20	104	74 - 129		
Tetrachloroethene	127-18-4	MSD	20	0	20	100	74 - 129	RPD 4.23 (Max-30)	
Toluene	108-88-3	MS	20.90	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.90	0	20	99.3	80 - 121	RPD 5.10 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.60	0.79	20	114	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	22.40	0.79	20	108	75 - 124	RPD 5.35 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.60	0	20	98	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	94.9	73 - 127	RPD 3.23 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.10	0	20	106	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.30	0	20	96.4	65 - 141	RPD 9.03 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.90	0.97	20	110	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.50	0.97	20	97.6	58 - 137	RPD 11.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33.50	30	112	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.80	30	103	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	28	30	93.3	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	96	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.40	30	101	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	28.30	30	94.4	80 - 119	
Toluene-d8	2037-26-5	MS	29.10	30	97.2	89 - 112	
Toluene-d8	2037-26-5	MSD	29.10	30	97	89 - 112	

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366031002 3366031001 3366031003

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

Project HS24060899
Workorder 3366031

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366031001	MW12-061324	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366031002	1824DPTMW06_061324	N/A	N/A	N/A		SW846 8260D	1235282
3366031003	AWD4_061324	N/A	N/A	N/A		SW846 8260D	1235282
3366031004	18CPTMW15_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031005	18WW08_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031006	18WW22_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031007	CO4_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031008	Trip Blank	N/A	N/A	N/A		SW846 8260D	1234508

10450 Star
Houston, T
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F: +1 281
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3366031
Logged By: CXW
PM: SSL

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 26142

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057
Phone: +1 717 702 2244

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:	HS24060899
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID		MATRIX	COLLECT DATE
	ANALYSIS REQUESTED				DUE DATE
1.	**HS24060899-01**	**MW12_061324**	8-G/HCL MS/MSD MTSE 6/27/24	**Water**	**13 Jun 2024 07:15**
	Custom selection				28 Jun 2024
2.	**HS24060899-02**	**1824DPTMW06_061324**	2-G/HCL	**Water**	**13 Jun 2024 08:00**
	Custom selection				28 Jun 2024
3.	**HS24060899-03**	**AWD4_061324**	2-G/HCL	**Water**	**13 Jun 2024 08:45**
	Custom selection				28 Jun 2024
4.	**HS24060899-04**	**18CPTMW15_061324**	2-G/HCL	**Water**	**13 Jun 2024 09:30**
	Custom selection				28 Jun 2024
5.	**HS24060899-06**	**18WW08_061324**		**Water**	**13 Jun 2024 11:00**
	Custom selection				28 Jun 2024
6.	**HS24060899-07**	**18WW22_061324**		**Water**	**13 Jun 2024 11:45**
	Custom selection				28 Jun 2024
7.	**HS24060899-08**	**CO4_061324**		**Water**	**13 Jun 2024 12:30**
	Custom selection				28 Jun 2024
8.	**HS24060899-09**	**Trip Blank**		**Water**	**13 Jun 2024 00:00**
	Custom selection				28 Jun 2024

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6/28/2024 12:21 PM

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26142**

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 10 | Therm ID: 570

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N NA
CRG Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N
NIs 4 Days?	
Rad Screen (uCi)	
Courier/Tracking #:	738879234761 Y 0
SDWA Compliance	
PWSID	
WV Containers 0-6°C	Y N NA

*No Sampler, GK, G/HCL MJE 6/26/24

pm notified 6/27/24

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

HS24060899 E2400691 Perch Level IV Report

ALS WO# HS24060899

June 26, 2024 Service Request No:E2400691

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060899

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 14, 2024
For your reference, these analyses have been assigned our service request number **E2400691.**

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.:**	E2400691
Project:	HS24060899	**Date Received:**	06/14/24
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

Eight samples were received for analysis at ALS Environmental in Houston on 06/14/24.

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:

EQ2400335: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

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:**E2400691
Project: HS24060899

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400691-001	MW12_061324	6/13/2024	0715
E2400691-002	1824DPTMW06_061324	6/13/2024	0800
E2400691-003	AWD4_061324	6/13/2024	0845
E2400691-004	18CPTMW15_061324	6/13/2024	0930
E2400691-005	18WW09_061324	6/13/2024	1020
E2400691-006	18WW08_061324	6/13/2024	1100
E2400691-007	18WW22_061324	6/13/2024	1145
E2400691-008	CO4_061324	6/13/2024	1230

Service Request Summary

Folder #: **E2400691**
Client Name: ALS Environmental - US
Project Name: HS24060899
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/14/24
Internal Due Date: 6/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 10C
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400691-001	MW12_061324	Water	06/13/24 0715	**IV**
E2400691-002	1824DPTMW06_061324	Water	06/13/24 0800	**IV**
E2400691-003	AWD4_061324	Water	06/13/24 0845	**IV**
E2400691-004	18CPTMW15_061324	Water	06/13/24 0930	**IV**
E2400691-005	18WW09_061324	Water	06/13/24 1020	**IV**
E2400691-006	18WW08_061324	Water	06/13/24 1100	**IV**
E2400691-007	18WW22_061324	Water	06/13/24 1145	**IV**
E2400691-008	CO4_061324	Water	06/13/24 1230	**IV**

Service Request Summary

Folder #: **E2400691**
Client Name: ALS Environmental - US
Project Name: HS24060899
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/14/24
Internal Due Date: 6/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 10C
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
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
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E2400691 5
ALS Laboratory Group
HS24060899

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26012**

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:	HS24060899
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060899-01**	**MW12_061324**	**Water**	**13 Jun 2024 07:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
2.	**HS24060899-02**	**1824DPTMW06_061324**	**Water**	**13 Jun 2024 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
3.	**HS24060899-03**	**AWD4_061324**	**Water**	**13 Jun 2024 08:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
4.	**HS24060899-04**	**18CPTMW15_061324**	**Water**	**13 Jun 2024 09:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
5.	**HS24060899-05**	**18WW09_061324**	**Water**	**13 Jun 2024 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
6.	**HS24060899-06**	**18WW08_061324**	**Water**	**13 Jun 2024 11:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
7.	**HS24060899-07**	**18WW22_061324**	**Water**	**13 Jun 2024 11:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
8.	**HS24060899-08**	**CO4_061324**	**Water**	**13 Jun 2024 12:30**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26012**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS24060899-01 MS/MSD

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1744

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400691 5
ALS Laboratory Group
HS24060899

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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Sample Receipt Checklist

Work Order ID: HS24060899 **Date/Time received:** 14 Jun 2024 09:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Ragen Giga

Completed/By: 14 Jun 2024 14:49 Nilesh D. Ranchod **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	2 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): 1.2C/1.3C UC/C ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 06/14/2024 15:00

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
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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#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	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

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	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: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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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:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	E2400691-001	**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	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:13	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0800
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	1824DPTMW06_061324	**Units:**	µg/L
Lab Code:	E2400691-002	**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	**18.8**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:19	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0845
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	AWD4_061324	**Units:**	µg/L
Lab Code:	E2400691-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**579**		10.0	5.00	2.50	100	6/21/24	6/24/24 11:04	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0930
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18CPTMW15_061324	**Units:**	µg/L
Lab Code:	E2400691-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**98.3**		1.00	0.500	0.250	10	6/21/24	6/24/24 11:10	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1020
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW09_061324	**Units:**	µg/L
Lab Code:	E2400691-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:35	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1100
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW08_061324	**Units:**	µg/L
Lab Code:	E2400691-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9.52**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:41	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1145
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW22_061324	**Units:**	µg/L
Lab Code:	E2400691-007	**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	**0.179**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:46	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1230
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	CO4_061324	**Units:**	µg/L
Lab Code:	E2400691-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 16:03	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**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	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**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	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	06/13/24
Sample Matrix:	Water	**Date Received:**	06/14/24
		Date Analyzed:	06/21/24
		Date Extracted:	06/21/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	MW12_061324	**Units:**	ug/L
Lab Code:	E2400691-001	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400335-05			Duplicate Matrix Spike EQ2400335-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	0.116	0.100	116	0.114	0.100	114	84-119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	EQ2400335-05	**Basis:**	NA
Run Type:	Matrix Spike		

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	**0.116**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 13:24	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	EQ2400335-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

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	**0.114**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 13:47	440426	845357	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
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843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

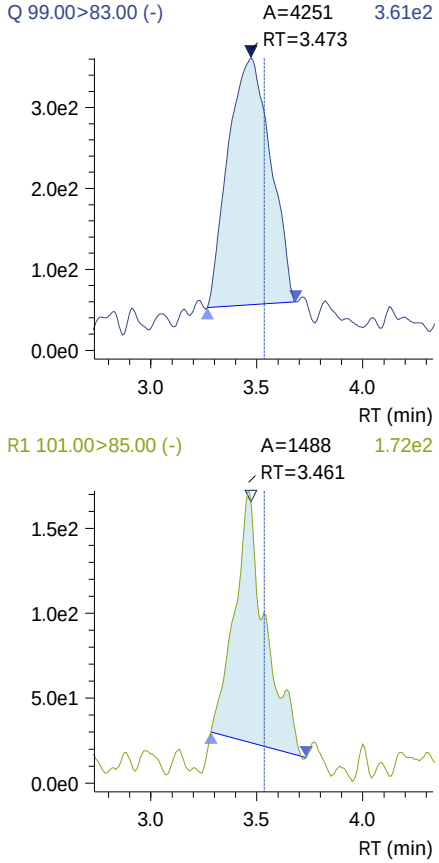
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

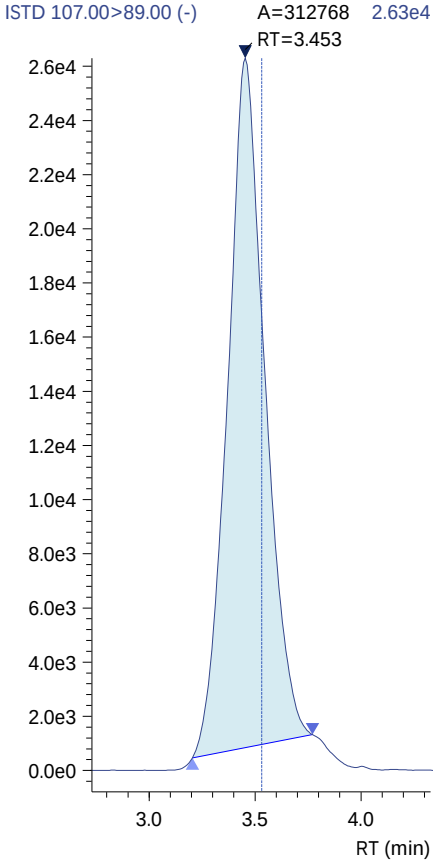
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

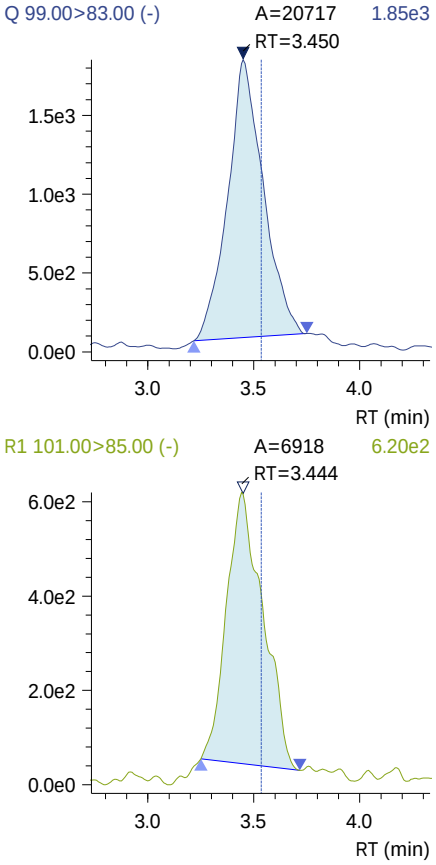
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

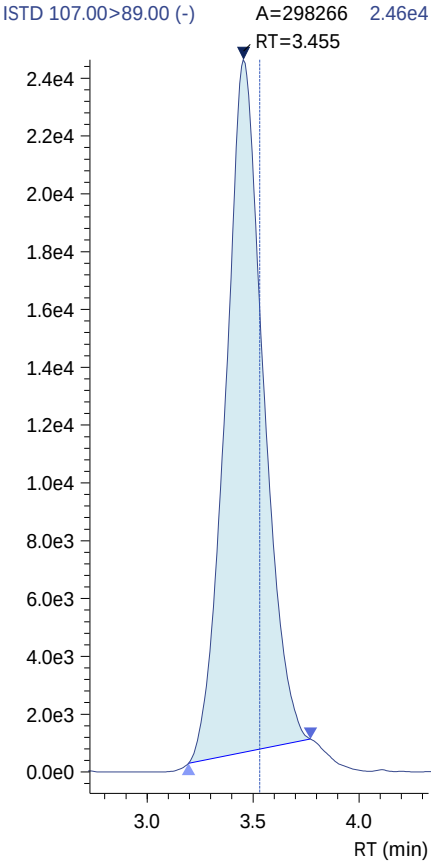
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

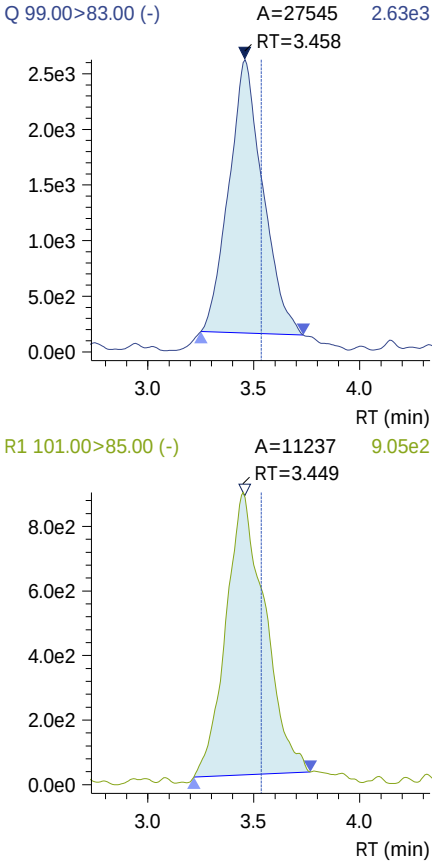
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

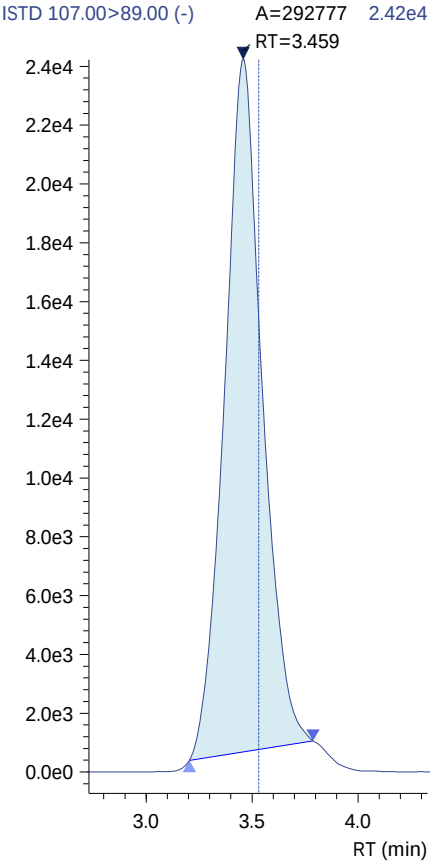
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

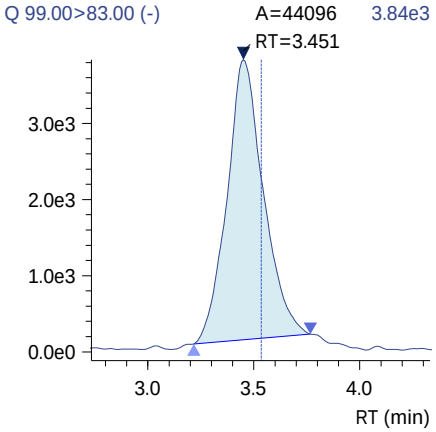
Perchlorate ICAL 4

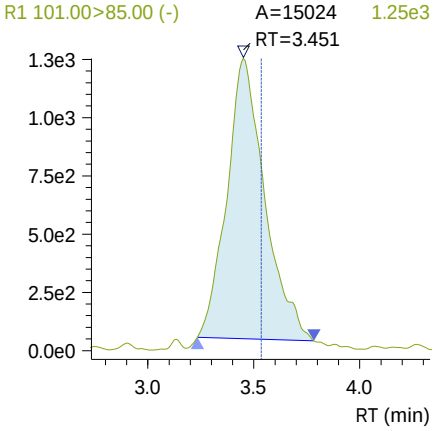
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

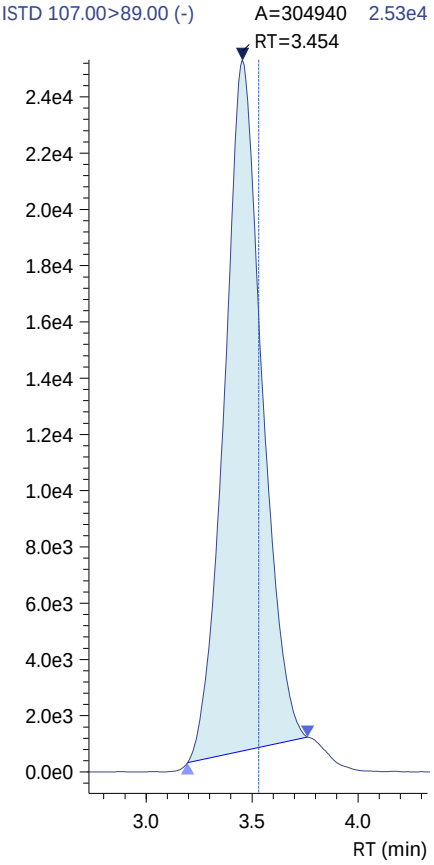
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

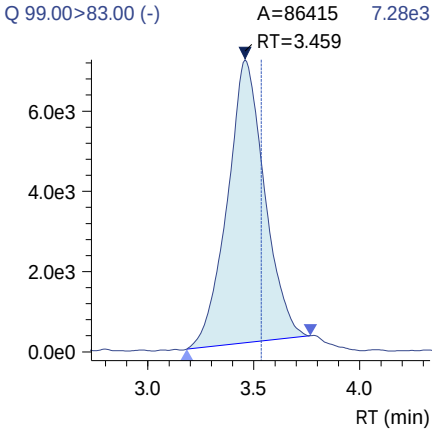
Perchlorate ICAL 5

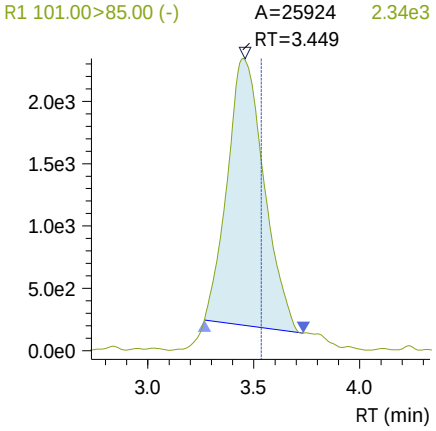
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

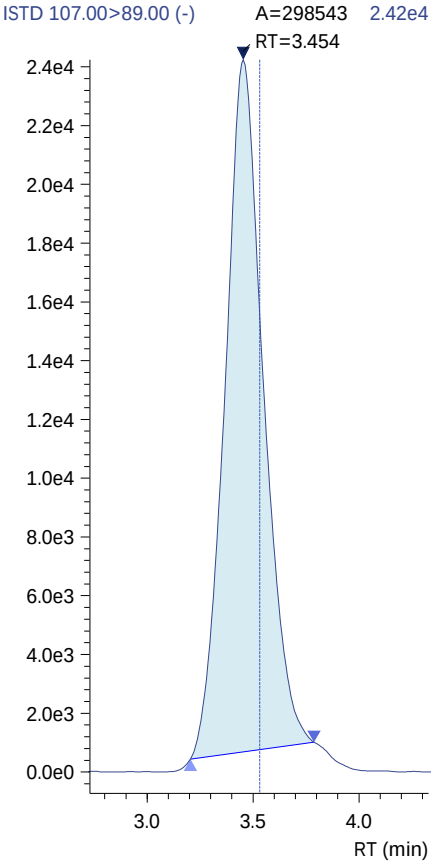
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

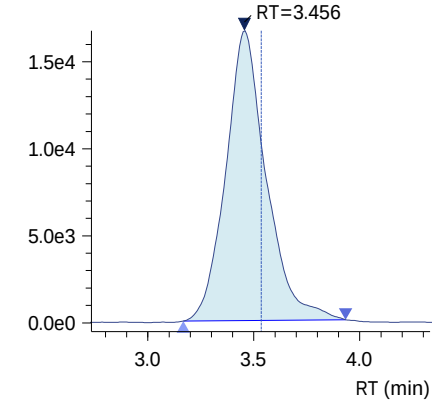
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

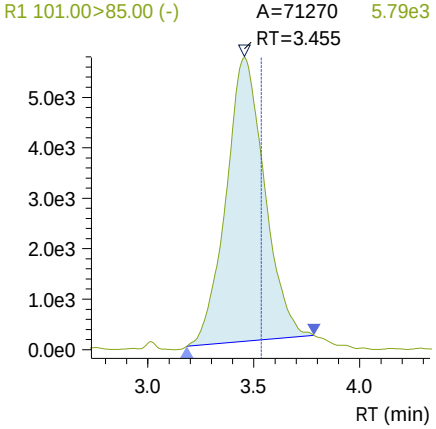
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



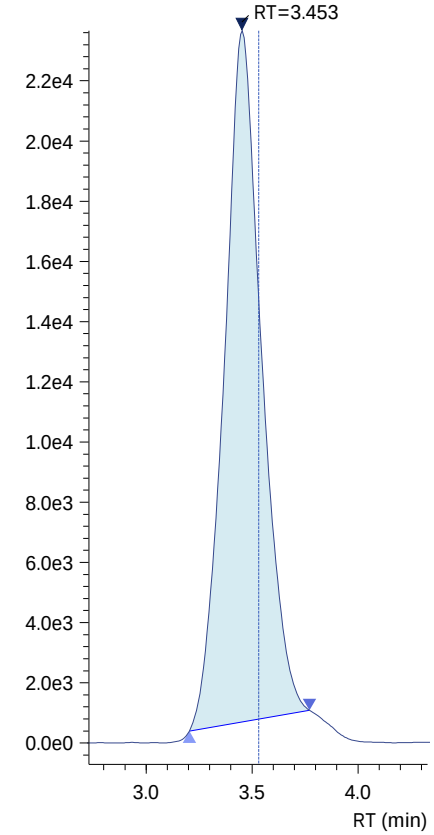
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

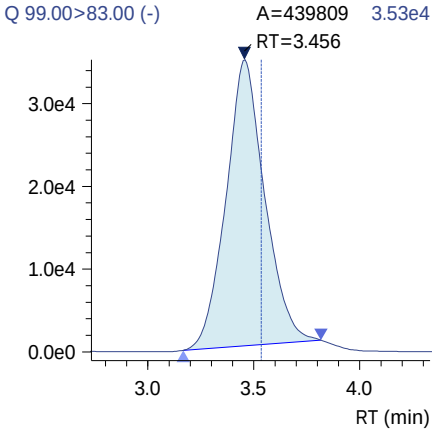
Perchlorate ICAL 7

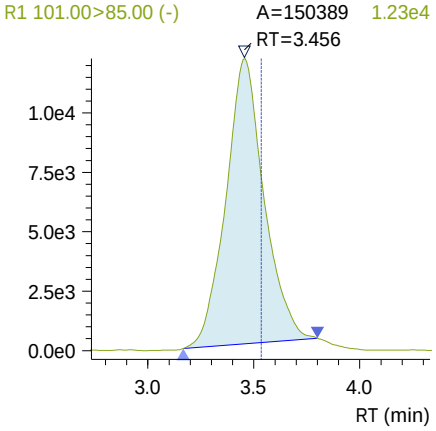
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

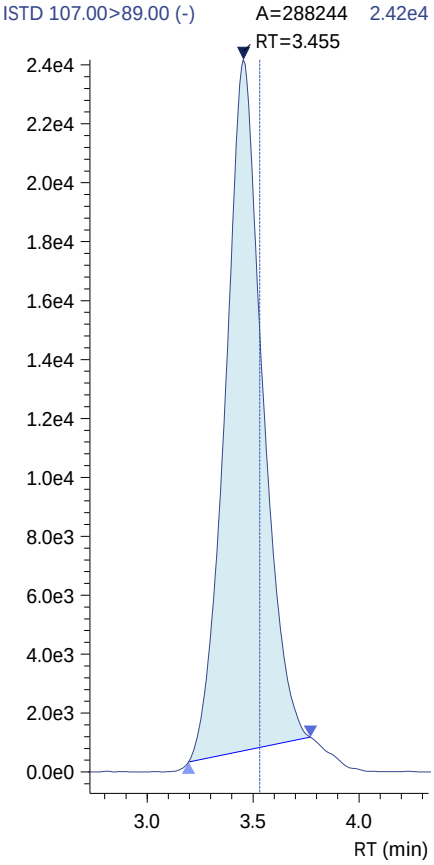
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

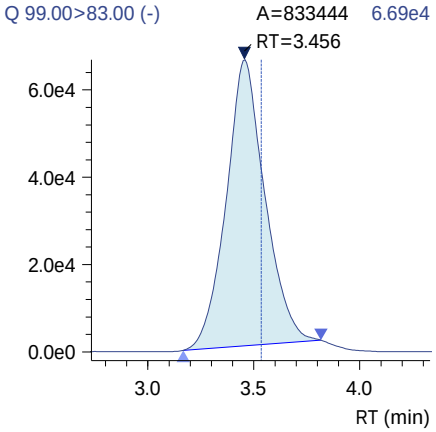
Perchlorate ICAL 8

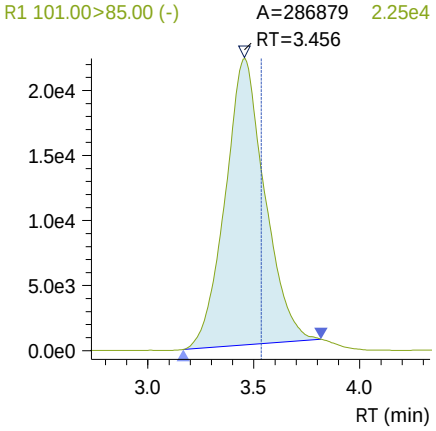
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

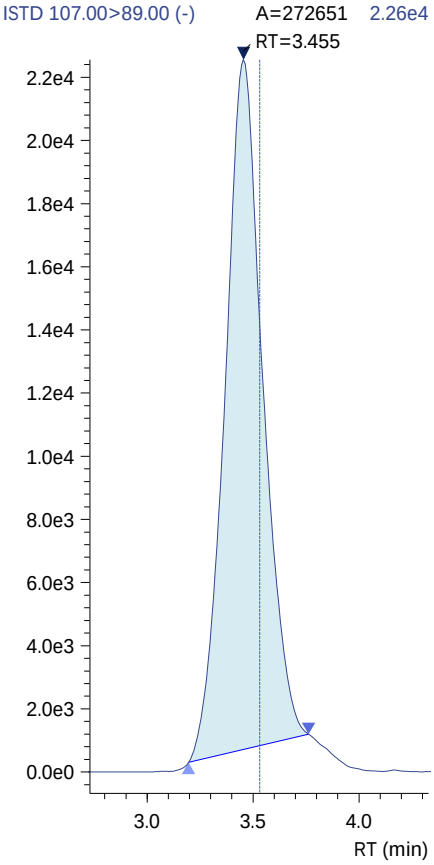
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

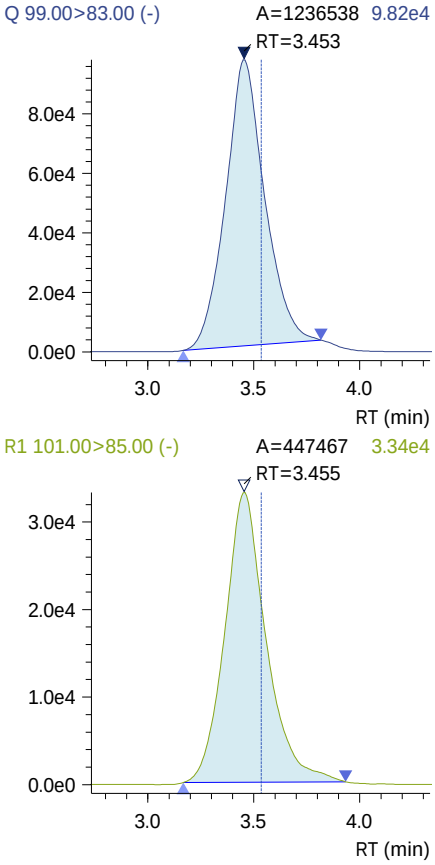
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

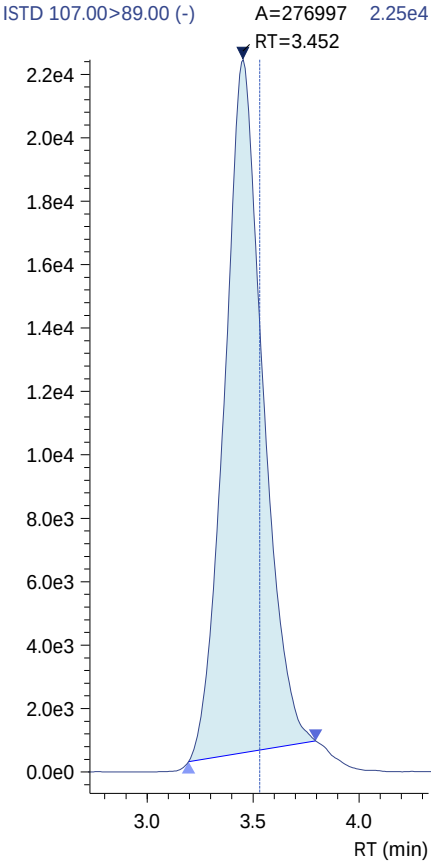
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

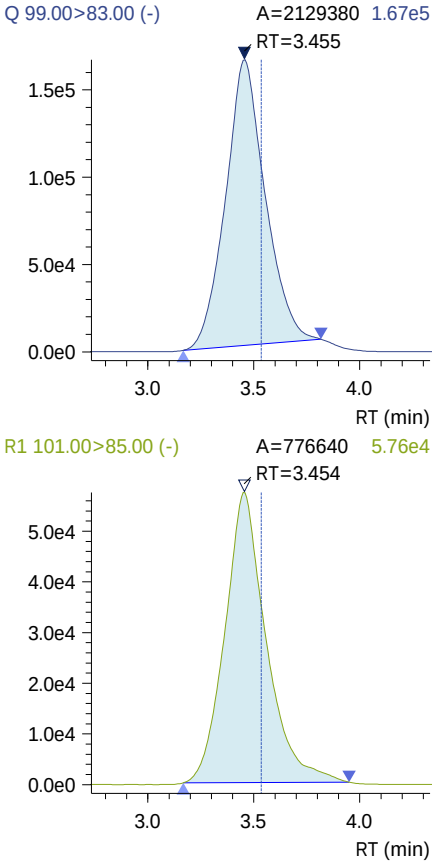
Perchlorate ICAL 10

Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

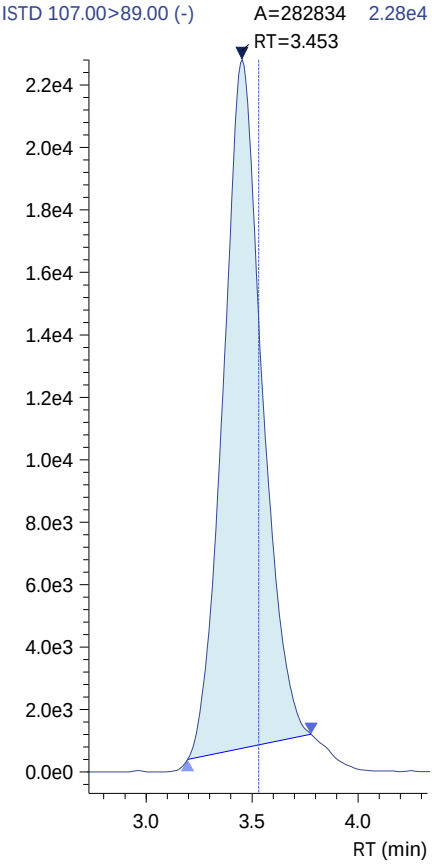
Perchlorate

Conc 51.5649
R#1 36.47 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

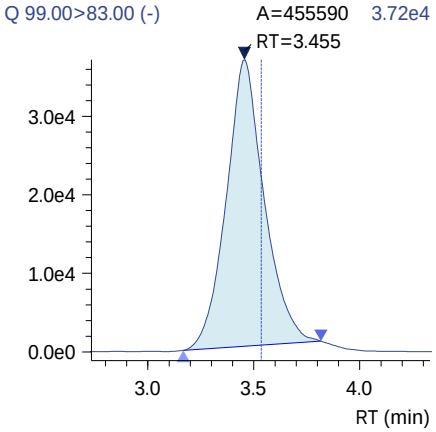
PerchlorateICV

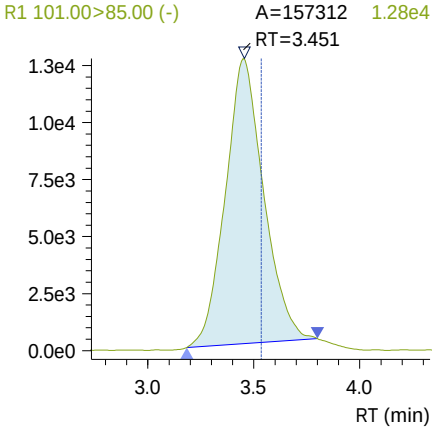
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

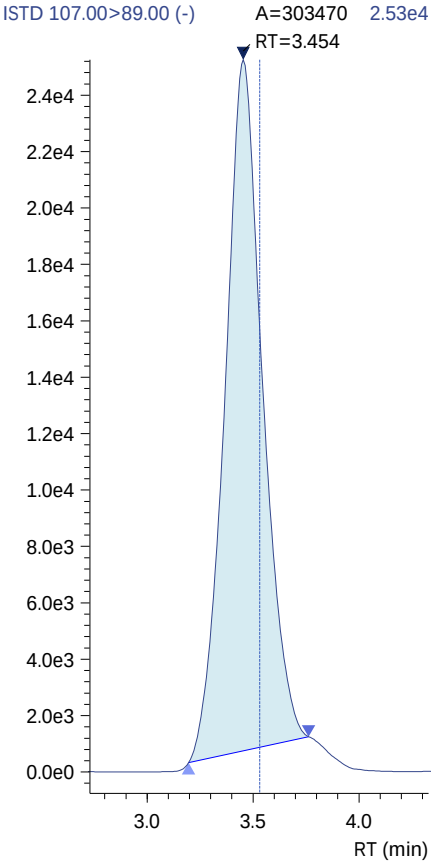
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240621-001	IB	Perchlorate6850c.lcm	1x		6/21/2024 8:56
2	20240621-002	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:01
3	20240621-003	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:07
4	20240621-004	LODV	Perchlorate6850c.lcm	1x		6/21/2024 9:12
5	20240621-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 9:18
6	20240621-006	CCV	Perchlorate6850c.lcm	1x		6/21/2024 9:23
7	20240621-007	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:29
8	20240621-008	EQ2400335-01MB	Perchlorate6850c.lcm	1x		6/21/2024 10:17
9	20240621-009	EQ2400335-02LCS	Perchlorate6850c.lcm	1x		6/21/2024 12:36
10	20240621-010	EQ2400335-03DLCS	Perchlorate6850c.lcm	1x		6/21/2024 12:42
11	20240621-011	EQ2400335-04ICS	Perchlorate6850c.lcm	1x		6/21/2024 12:47
12	20240621-012	E2400687-007x10	Perchlorate6850c.lcm	10x		6/21/2024 12:53
13	20240621-013	E2400687-008x10	Perchlorate6850c.lcm	10x		6/21/2024 12:58
14	20240621-014	E2400687-009x10	Perchlorate6850c.lcm	10x		6/21/2024 13:04
15	20240621-015	EQ2400332-05MSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:13
16	20240621-016	EQ2400332-06DMSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:19
17	20240621-017	EQ2400335-05MS	Perchlorate6850c.lcm	1x		6/21/2024 13:24
18	20240621-018	EQ2400335-06DMS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:30
19	20240621-019	CCV	Perchlorate6850c.lcm	1x		6/21/2024 13:36
20	20240621-020	IB	Perchlorate6850c.lcm	1x		6/21/2024 13:41
21	20240621-021	EQ2400335-06DMS	Perchlorate6850c.lcm	1x		6/21/2024 13:47
22	20240621-022	E2400702-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:52
23	20240621-023	E2400702-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:58
24	20240621-024	E2400706-001	Perchlorate6850c.lcm	1x		6/21/2024 14:03
25	20240621-025	E2400706-002	Perchlorate6850c.lcm	1x		6/21/2024 14:09
26	20240621-026	E2400685-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:14
27	20240621-027	E2400685-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:20
28	20240621-028	E2400685-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:25
29	20240621-029	E2400685-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:31
30	20240621-030	E2400685-005	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:37
31	20240621-031	CCV	Perchlorate6850c.lcm	1x		6/21/2024 14:42
32	20240621-032	IB	Perchlorate6850c.lcm	1x		6/21/2024 14:48
33	20240621-033	E2400685-006	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:57
34	20240621-034	E2400685-007	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:02
35	20240621-035	E2400685-008	Perchlorate6850c.lcm	1x		6/21/2024 15:08
36	20240621-036	E2400691-001	Perchlorate6850c.lcm	1x		6/21/2024 15:13
37	20240621-037	E2400691-002	Perchlorate6850c.lcm	1x		6/21/2024 15:19
38	20240621-038	E2400691-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:24
39	20240621-039	E2400691-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:30
40	20240621-040	E2400691-005	Perchlorate6850c.lcm	1x		6/21/2024 15:35
41	20240621-041	E2400691-006	Perchlorate6850c.lcm	1x		6/21/2024 15:41

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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
42	20240621-042	E2400691-007	Perchlorate6850c.lcm	1x		6/21/2024 15:46
43	20240621-043	CCV	Perchlorate6850c.lcm	1x		6/21/2024 15:52
44	20240621-044	IB	Perchlorate6850c.lcm	1x		6/21/2024 15:57
45	20240621-045	E2400691-008	Perchlorate6850c.lcm	1x		6/21/2024 16:03
46	20240621-046	E2400702-001x10	Perchlorate6850c.lcm	10x		6/21/2024 16:09
47	20240621-047	E2400702-002x10	Perchlorate6850c.lcm	10x		6/21/2024 16:14
48	20240621-048	E2400685-002x100	Perchlorate6850c.lcm	100x		6/21/2024 16:20
49	20240621-049	E2400685-003x100	Perchlorate6850c.lcm	100x		6/21/2024 16:25
50	20240621-050	E2400685-004x100	Perchlorate6850c.lcm	100x		6/21/2024 16:31
51	20240621-051	E2400685-005x200	Perchlorate6850c.lcm	200x		6/21/2024 16:36
52	20240621-052	CCV	Perchlorate6850c.lcm	1x		6/21/2024 16:42
53	20240621-053	IB	Perchlorate6850c.lcm	1x		6/21/2024 16:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240624-001	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:53
2	20240624-002	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:58
3	20240624-003	IB	Perchlorate6850c.lcm	1x		6/24/2024 9:04
4	20240624-004	LODV	Perchlorate6850c.lcm	1x		6/24/2024 9:09
5	20240624-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 9:15
6	20240624-006	CCV	Perchlorate6850c.lcm	1x		6/24/2024 9:20
7	20240624-007	IB	Perchlorate6850c.lcm	1x		6/24/2024 10:20
8	20240624-008	EQ2400343-001MB	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:25
9	20240624-009	EQ2400343-02LCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:31
10	20240624-010	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:36
11	20240624-011	EQ2400343-04ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:42
12	20240624-012	E2400685-001X10	Perchlorate6850c.lcm	10x		6/24/2024 10:47
13	20240624-013	E2400685-006X100	Perchlorate6850c.lcm	100x		6/24/2024 10:53
14	20240624-014	E2400685-007X500	Perchlorate6850c.lcm	500x		6/24/2024 10:59
15	20240624-015	E2400691-003X100	Perchlorate6850c.lcm	100x		6/24/2024 11:04
16	20240624-016	E2400691-004X10	Perchlorate6850c.lcm	10x		6/24/2024 11:10
17	20240624-017	CCV	Perchlorate6850c.lcm	1x		6/24/2024 11:15
18	20240624-018	IB	Perchlorate6850c.lcm	1x		6/24/2024 11:21
19	20240624-019	EQ2400343-004MB	Perchlorate6850c.lcm	1x		6/24/2024 13:40
20	20240624-020	EQ2400343-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 13:46
21	20240624-021	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 13:57
22	20240624-022	EQ2400343-05ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:03
23	20240624-023	EQ2400345-001MB	Perchlorate6850c.lcm	1x		6/24/2024 14:08
24	20240624-024	EQ2400345-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 14:14
25	20240624-025	EQ2400345-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 14:19
26	20240624-026	EQ2400345-04ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:25
27	20240624-027	E2400710-001	Perchlorate6850c.lcm	1x		6/24/2024 14:30
28	20240624-028	E2400696-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:36
29	20240624-029	CCV	Perchlorate6850c.lcm	1x		6/24/2024 14:41
30	20240624-030	IB	Perchlorate6850c.lcm	1x		6/24/2024 14:47
31	20240624-031	E2400696-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:52
32	20240624-032	E2400696-003	Perchlorate6850c.lcm	1x		6/24/2024 14:58
33	20240624-033	E2400696-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:03
34	20240624-034	E2400696-005	Perchlorate6850c.lcm	1x		6/24/2024 15:09
35	20240624-035	E2400696-006	Perchlorate6850c.lcm	1x		6/24/2024 15:14
36	20240624-036	E2400696-007	Perchlorate6850c.lcm	1x		6/24/2024 15:20
37	20240624-037	E2400696-008	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:25
38	20240624-038	E2400696-009	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:31
39	20240624-039	E2400696-010	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:36
40	20240624-040	E2400715-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:42
41	20240624-041	CCV	Perchlorate6850c.lcm	1x		6/24/2024 15:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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
42	20240624-042	IB	Perchlorate6850c.lcm	1x		6/24/2024 15:53
43	20240624-043	E2400715-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:59
44	20240624-044	E2400715-003	Perchlorate6850c.lcm	1x		6/24/2024 16:04
45	20240624-045	E2400715-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:10
46	20240624-046	E2400715-005	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:15
47	20240624-047	E2400715-006	Perchlorate6850c.lcm	1x		6/24/2024 16:21
48	20240624-048	E2400715-007	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:26
49	20240624-049	E2400715-008	Perchlorate6850c.lcm	1x		6/24/2024 16:32
50	20240624-050	E2400716-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:37
51	20240624-051	E2400716-002	Perchlorate6850c.lcm	1x		6/24/2024 16:43
52	20240624-052	E2400716-003	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:48
53	20240624-053	CCV	Perchlorate6850c.lcm	1x		6/24/2024 16:54
54	20240624-054	IB	Perchlorate6850c.lcm	1x		6/24/2024 16:59
55	20240624-055	E2400716-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 17:05
56	20240624-056	E2400716-005	Perchlorate6850c.lcm	1x		6/24/2024 17:11
57	20240624-057	E2400716-006	Perchlorate6850c.lcm	1x		6/24/2024 17:16
58	20240624-058	E2400716-007	Perchlorate6850c.lcm	1x		6/24/2024 17:22
59	20240624-059	E2400716-008	Perchlorate6850c.lcm	1x		6/24/2024 17:27
60	20240624-060	E2400716-009	Perchlorate6850c.lcm	1x		6/24/2024 17:33
61	20240624-061	E2400716-010	Perchlorate6850c.lcm	1x		6/24/2024 17:38
62	20240624-062	EQ2400345-05MS	Perchlorate6850c.lcm	1x		6/24/2024 17:44
63	20240624-063	EQ2400345-06DMS	Perchlorate6850c.lcm	1x		6/24/2024 17:49
64	20240624-064	E2400721-001	Perchlorate6850c.lcm	1x		6/24/2024 17:55
65	20240624-065	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:00
66	20240624-066	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:06
67	20240624-067	E2400721-002	Perchlorate6850c.lcm	1x		6/24/2024 18:11
68	20240624-068	E2400721-003	Perchlorate6850c.lcm	1x		6/24/2024 18:17
69	20240624-069	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:22
70	20240624-070	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:28

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24 09:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-01
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-01	179,641	3.45
Method Blank	EQ2400335-01	176,581	3.45
Lab Control Sample	EQ2400335-02	212,039	3.45
Duplicate Lab Control Sample	EQ2400335-03	210,352	3.44
MW12_061324MS	EQ2400335-05	203,560	3.43

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: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24 13:36

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-02
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-02	205,946	3.44
MW12_061324DMS	EQ2400335-06	186,835	3.43

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: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24 14:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-03
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-03	211,144	3.44
MW12_061324	E2400691-001	201,562	3.43
1824DPTMW06_061324	E2400691-002	145,598	3.42
18WW09_061324	E2400691-005	242,115	3.45
18WW08_061324	E2400691-006	194,844	3.44
18WW22_061324	E2400691-007	219,131	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24 15:52

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-04
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-04	202,336	3.44
CO4_061324	E2400691-008	225,572	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24 16:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-052
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-05
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-05	207,383	3.44

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: HS24060899

Service Request: E2400691
Date Analyzed: 6/24/24 09:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400349-01
Analysis Lot: 845372
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400349-01	198,308	3.45
AWD4_061324	E2400691-003	236,527	3.45
18CPTMW15_061324	E2400691-004	238,093	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/24/24 11:15

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400349-02
Analysis Lot: 845372
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400349-02	223,642	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24

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\20240621\20240621-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.83	0.1460	0.1436	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24

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\20240621\20240621-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1482	1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24

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\20240621\20240621-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.32	0.1460	0.1361	-6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24

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\20240621\20240621-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.46	0.1460	0.1382	-5.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/21/24

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\20240621\20240621-052

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.16	0.1460	0.1338	-8.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/24/24

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\20240624\20240624-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845372
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.41	0.1460	0.1374	-5.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060899

Service Request: E2400691
Date Analyzed: 6/24/24

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\20240624\20240624-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845372
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.91	0.1460	0.1447	-0.9	NA	± 15 %	Average RF

Insight Report

Printed at 6/25/2024 12:31:04 PM

Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

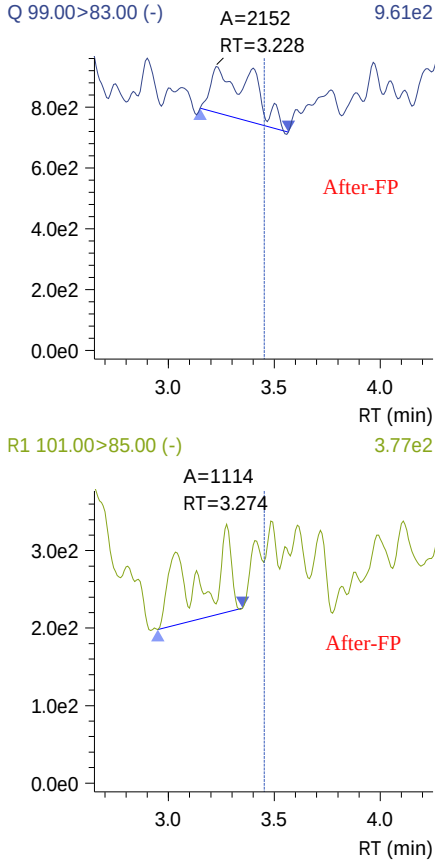
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.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	----	----	173255	----	ng/mL	101.00 >85.00	51.76	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	173255	173255	1.0000	ng/mL	----	----	

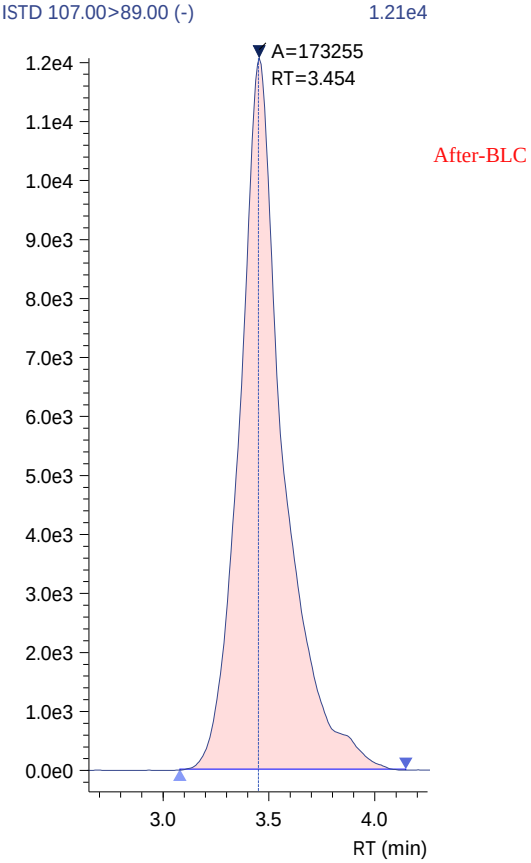
Perchlorate

Conc ----
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

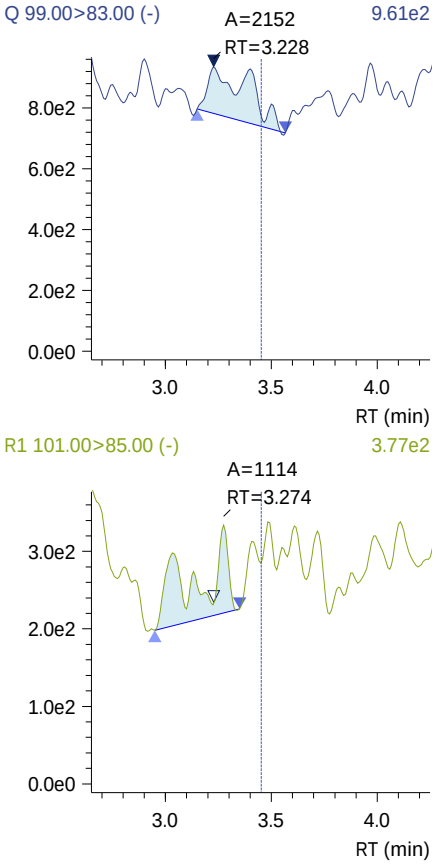
Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

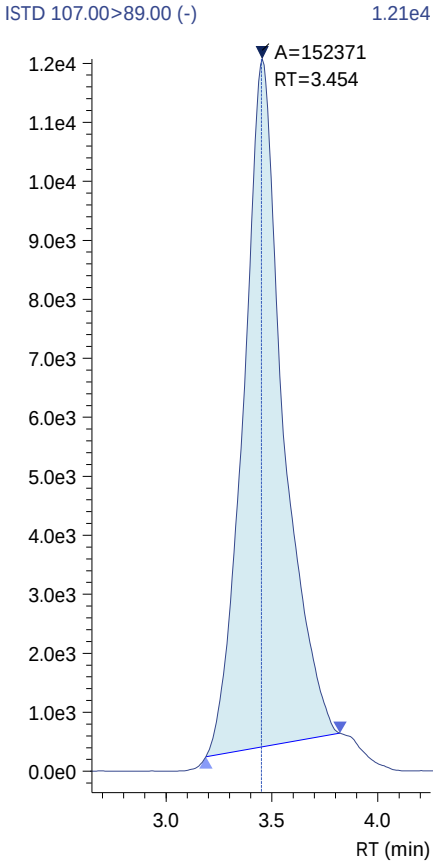
Perchlorate

Conc 0.0967
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

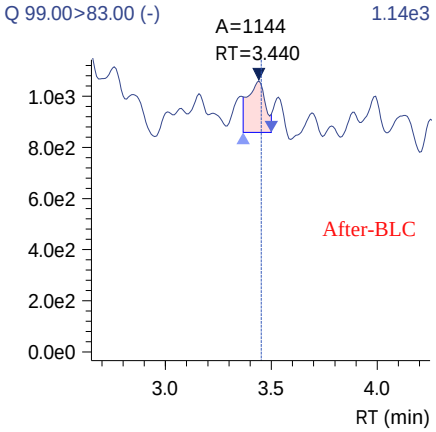
LODV

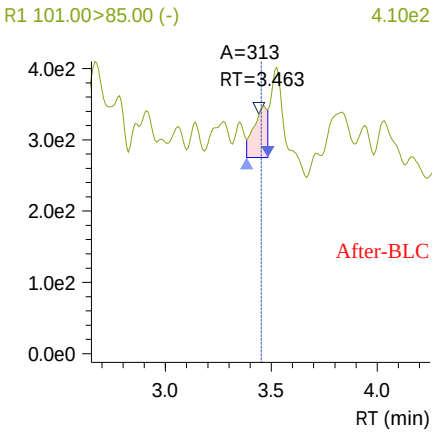
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Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	1144	164052	0.0477	ng/mL	101.00 >85.00	27.42	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.457	164052	164052	1.0000	ng/mL	----	----	

Perchlorate

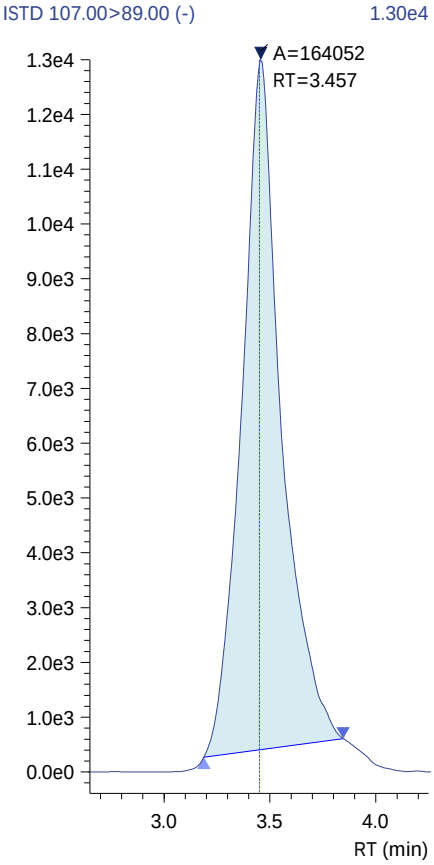
Conc 0.0477
R#1 27.42 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

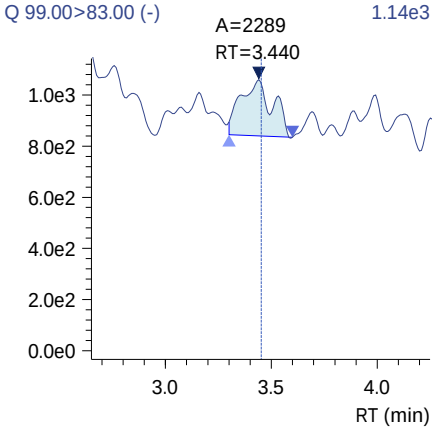
LODV

Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

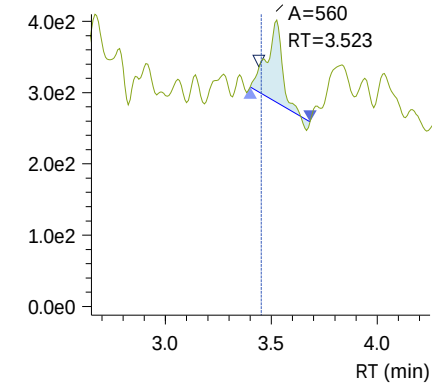
Perchlorate

Conc 0.0956
R#1 24.48 (35.24)

Q 99.00>83.00 (-) 1.14e3



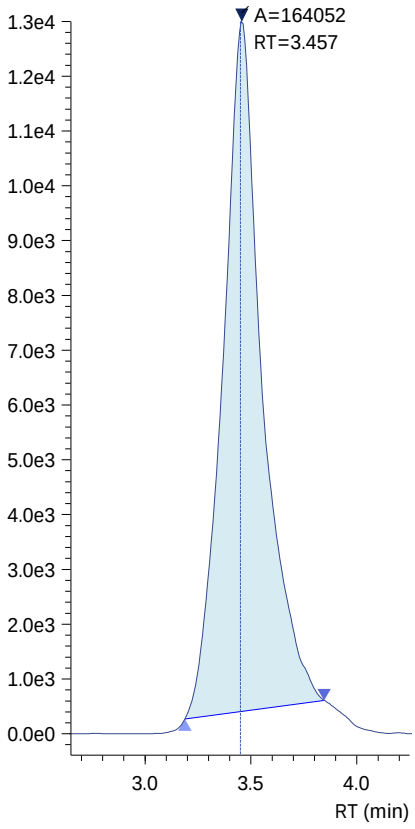
R1 101.00>85.00 (-) 4.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

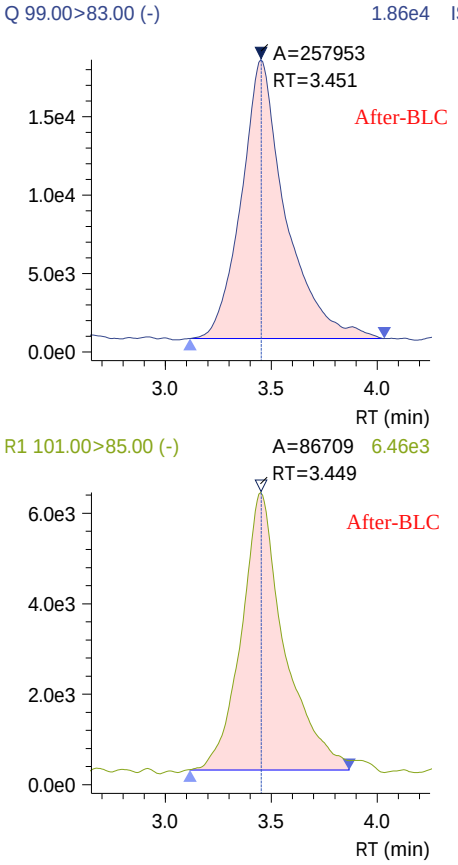
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.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	3.451	257953	179641	9.8348	ng/mL	101.00 >85.00	33.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179641	179641	1.0000	ng/mL	----	----	

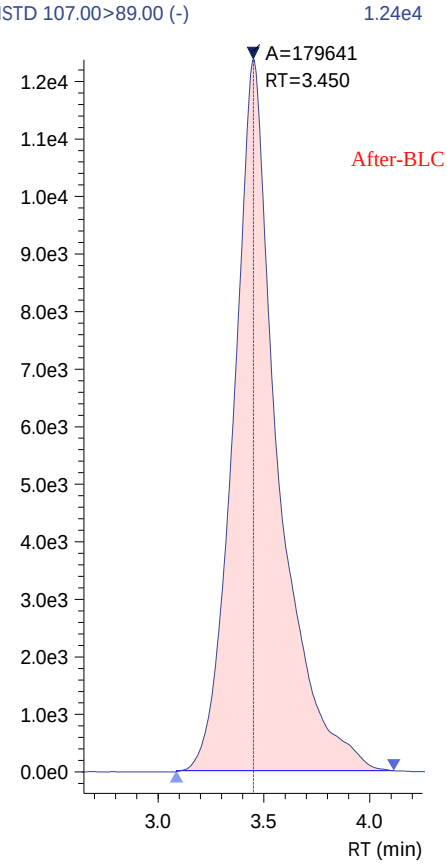
Perchlorate

Conc 9.8348
R#1 33.61 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

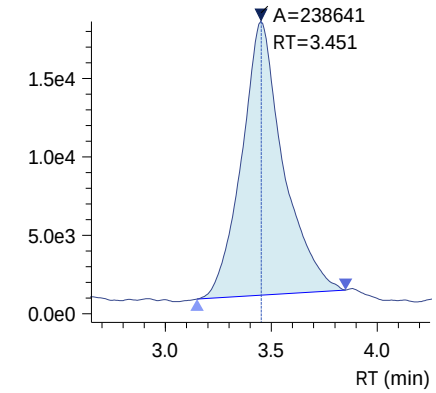
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

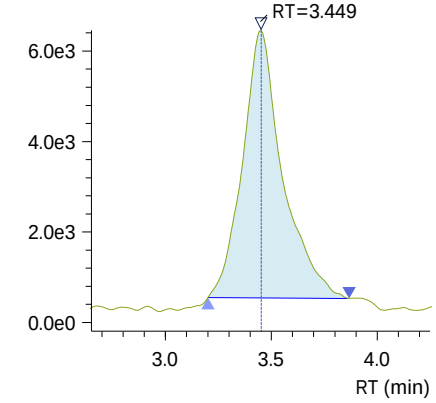
Perchlorate

Conc 10.3651
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 1.86e4



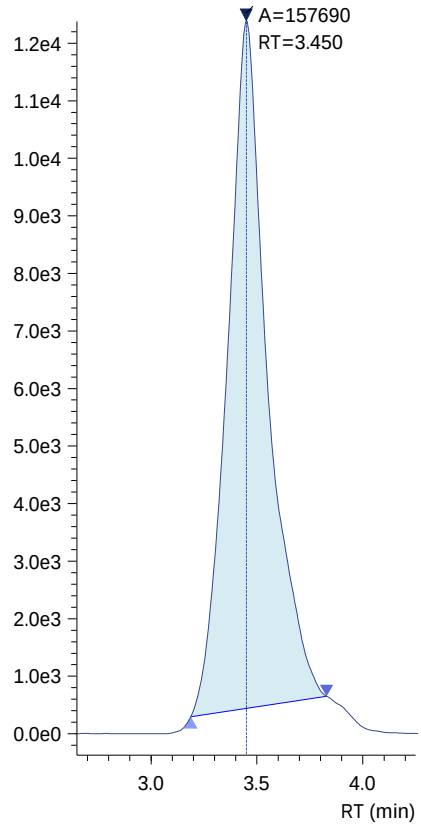
R1 101.00>85.00 (-) A=77739 6.46e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

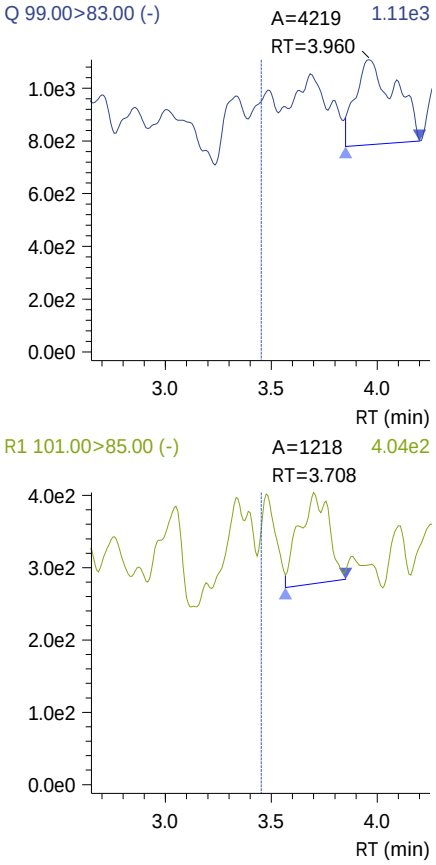
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.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)	----	----	179856	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179856	179856	1.0000	ng/mL	----	----	

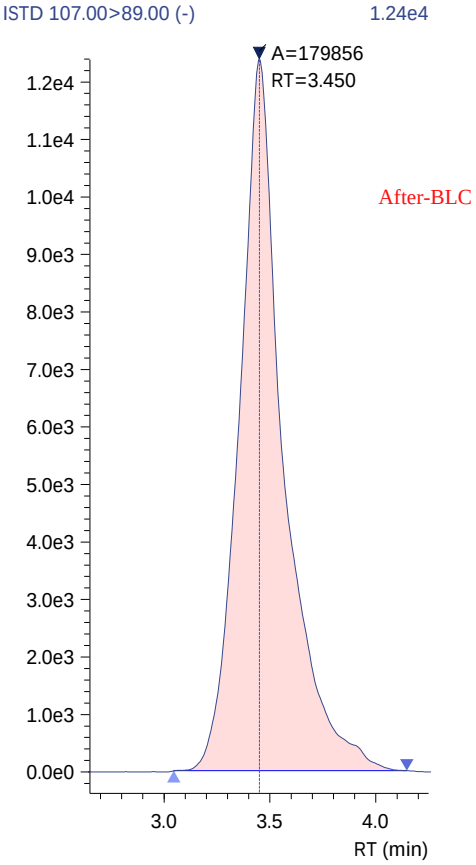
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

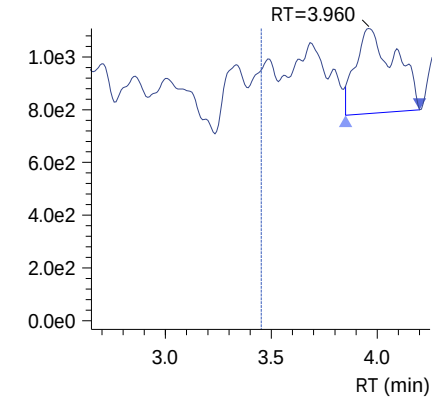
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

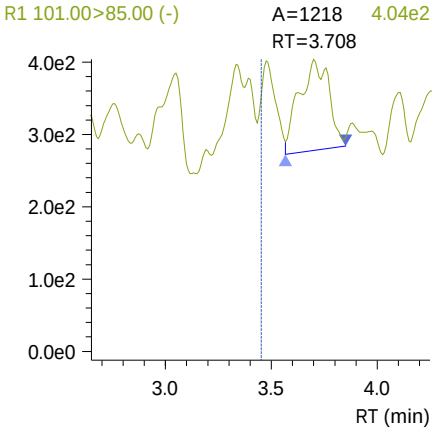
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4219 1.11e3



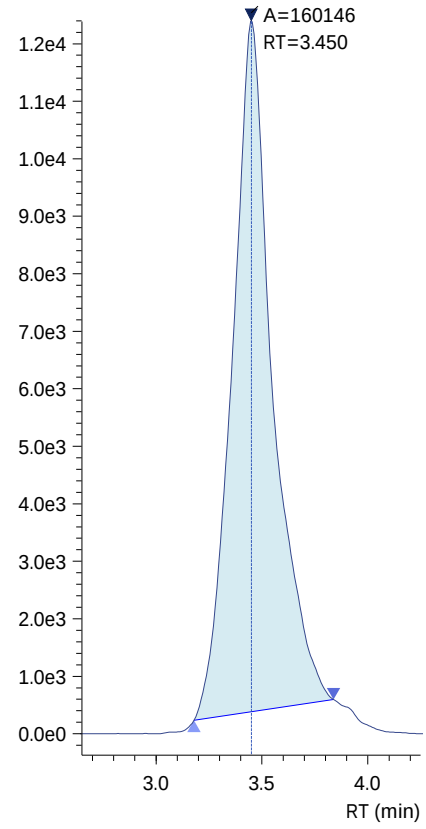
R1 101.00>85.00 (-) A=1218 4.04e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

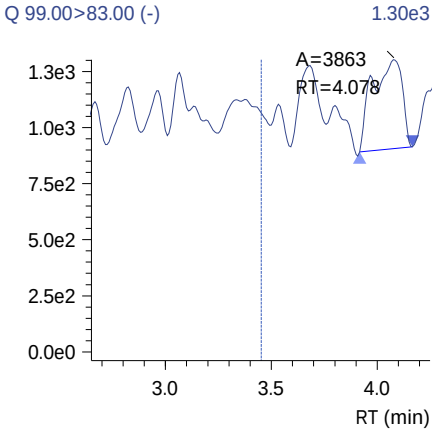
EQ2400335-01MB

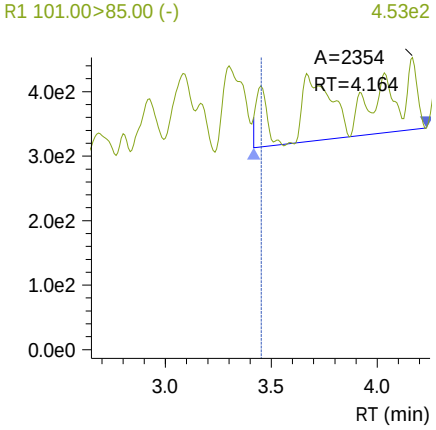
Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	176581	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.449	176581	176581	1.0000	ng/mL	----	----	

Perchlorate

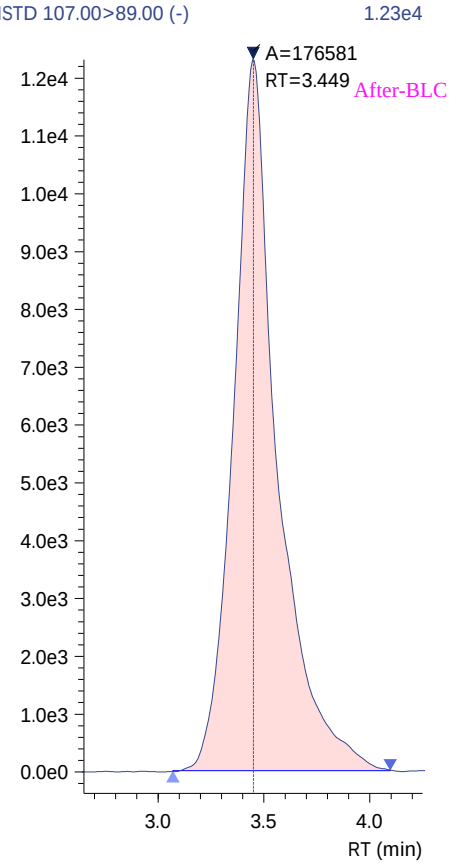
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

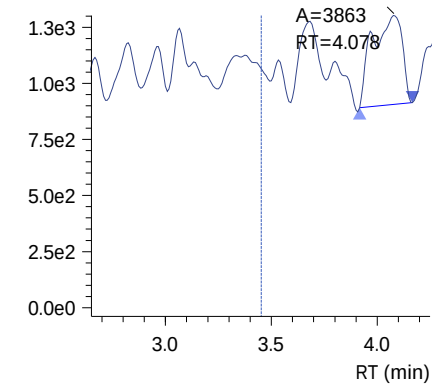
EQ2400335-01MB

Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

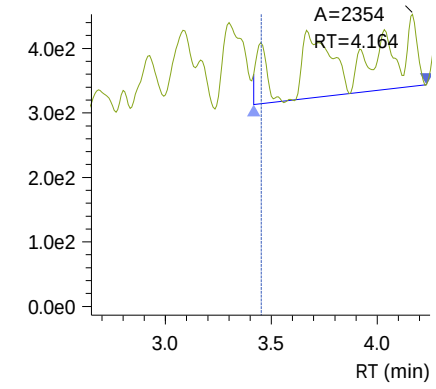
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.30e3



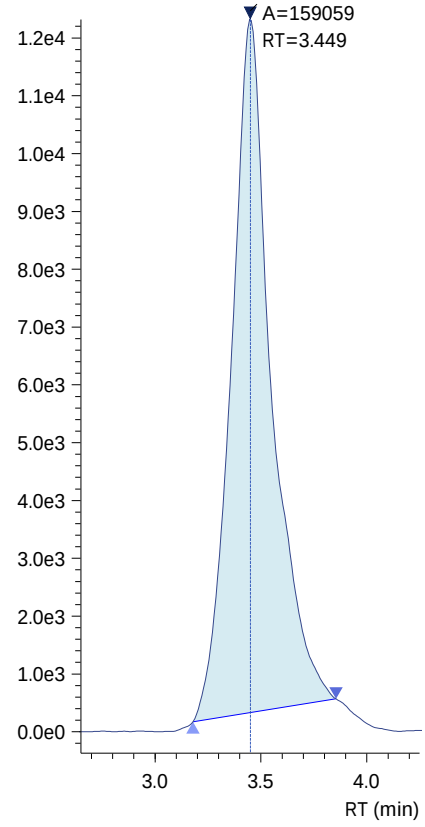
R1 101.00>85.00 (-) 4.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

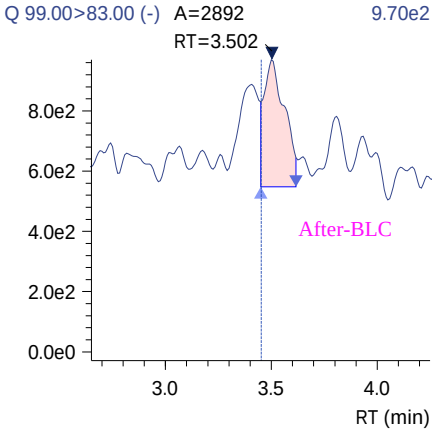
EQ2400335-02LCS

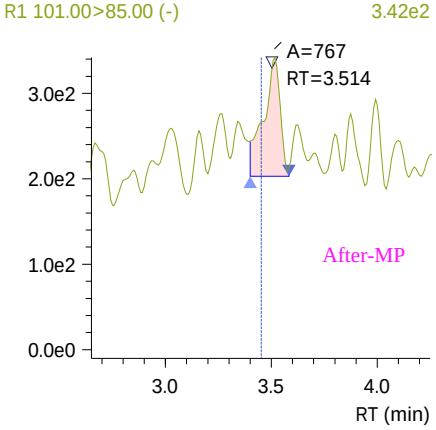
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Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.502	2892	212039	0.0934	ng/mL	101.00 >85.00	26.52	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.445	2120 39	212039	1.0000	ng/mL	----	----	

Perchlorate

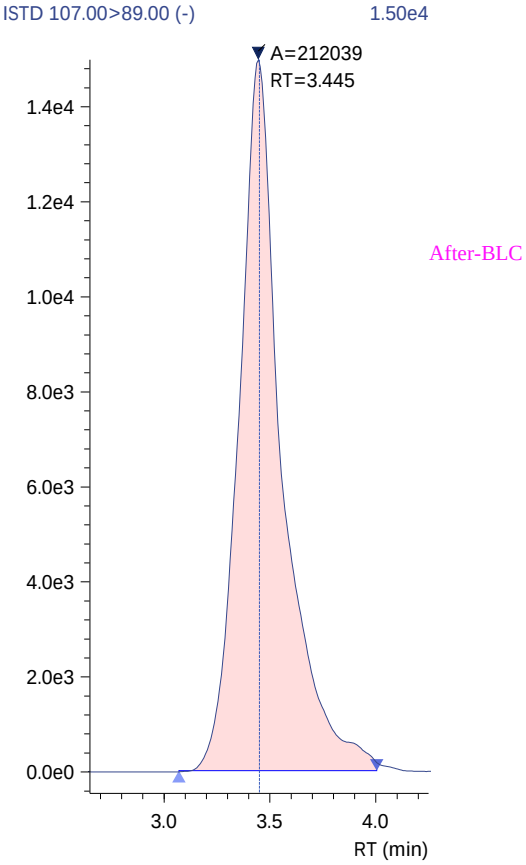
Conc 0.0934
R#1 26.52 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

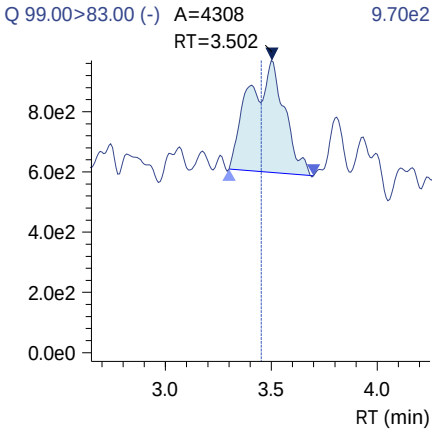
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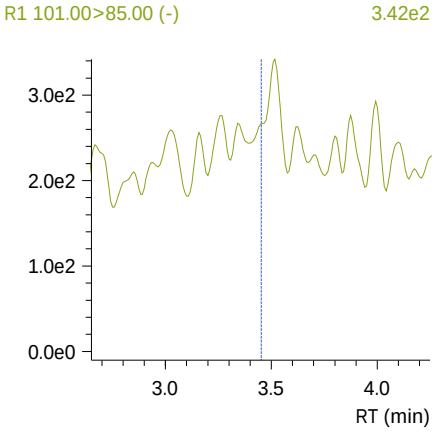
EQ2400335-02LCS

Sample ID: EQ2400335-02LCS
Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

Perchlorate

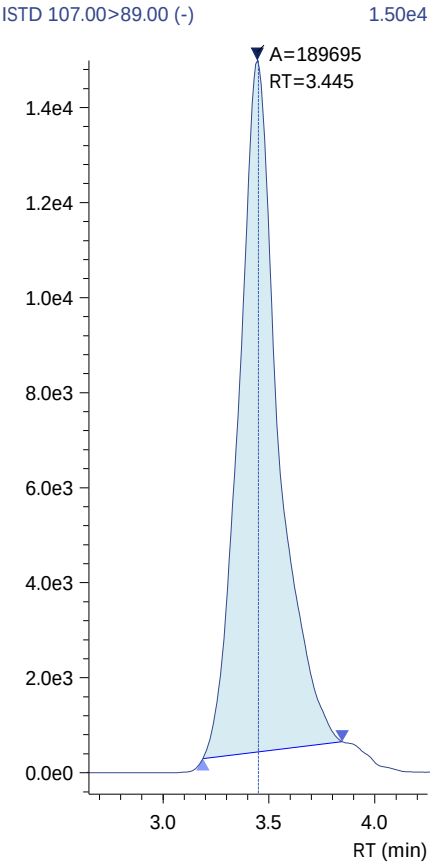
Conc 0.1556
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

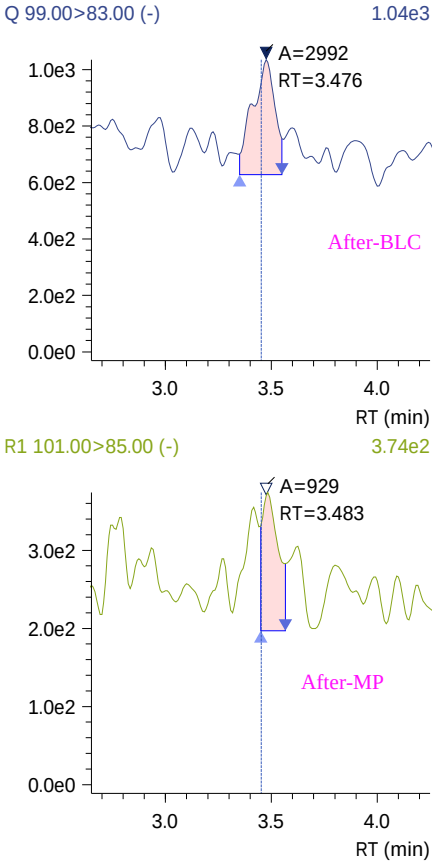
EQ2400335-03DLCS

Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | 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	3.476	2992	210352	0.0974	ng/mL	101.00 >85.00	31.05	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	210352	210352	1.0000	ng/mL	----	----	

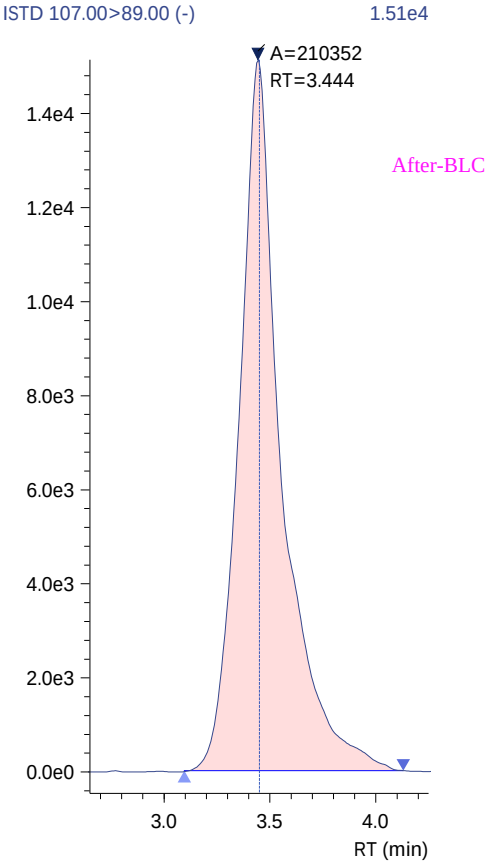
Perchlorate

Conc 0.0974
R#1 31.05 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

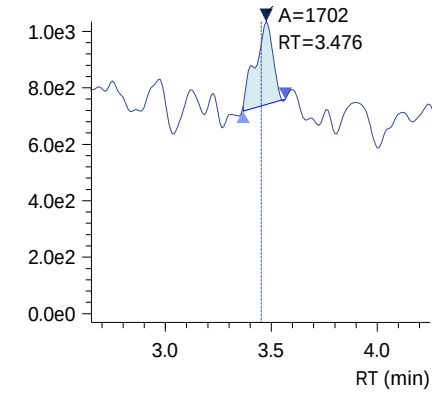
EQ2400335-03DLCS

Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 3

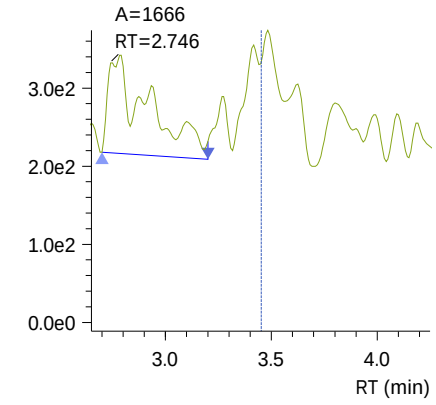
Perchlorate

Conc 0.0625
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.04e3



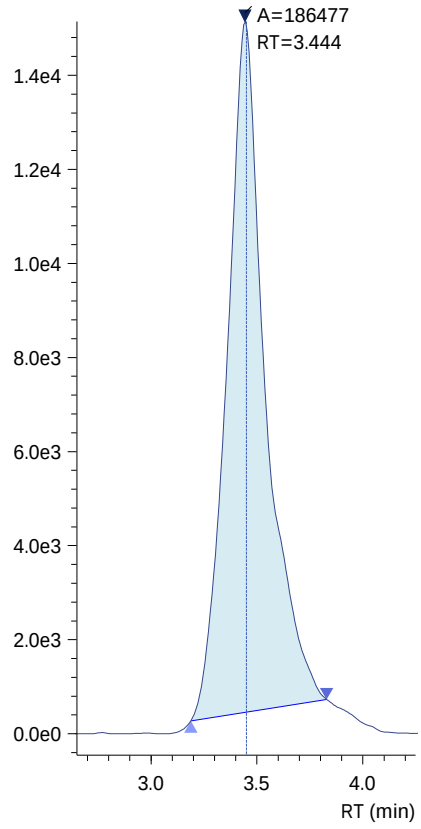
R1 101.00>85.00 (-) 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

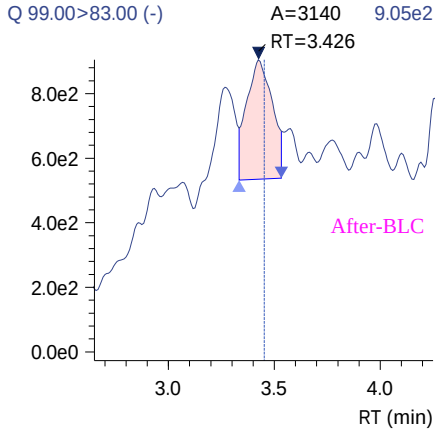
EQ2400335-04ICS

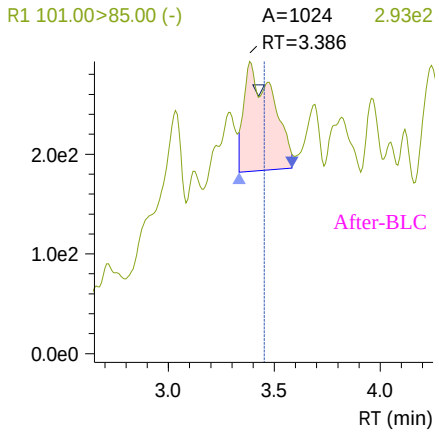
Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.426	3140	203937	0.1055	ng/mL	101.00 >85.00	32.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2039 37	203937	1.0000	ng/mL	----	----	

Perchlorate

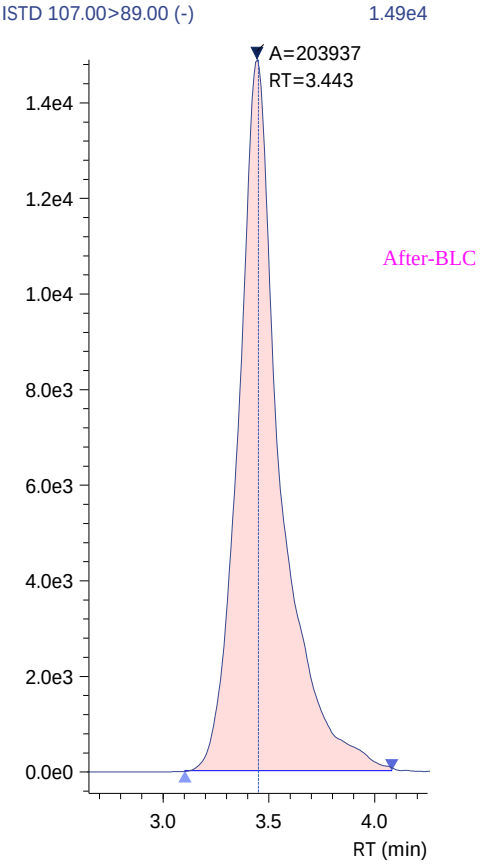
Conc 0.1055
R#1 32.61 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

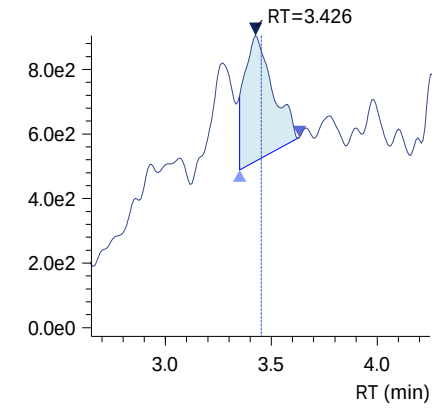
EQ2400335-04ICS

Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

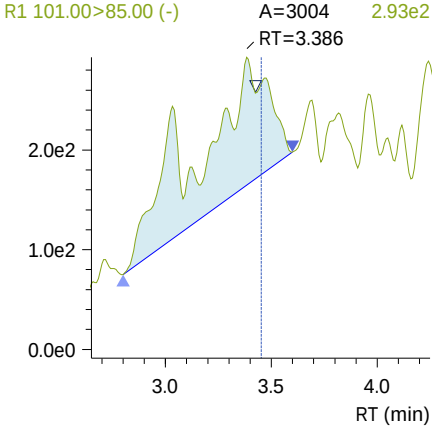
Perchlorate

Conc 0.1361
R#1 83.13 (35.24)

Q 99.00>83.00 (-) A=3614 9.05e2



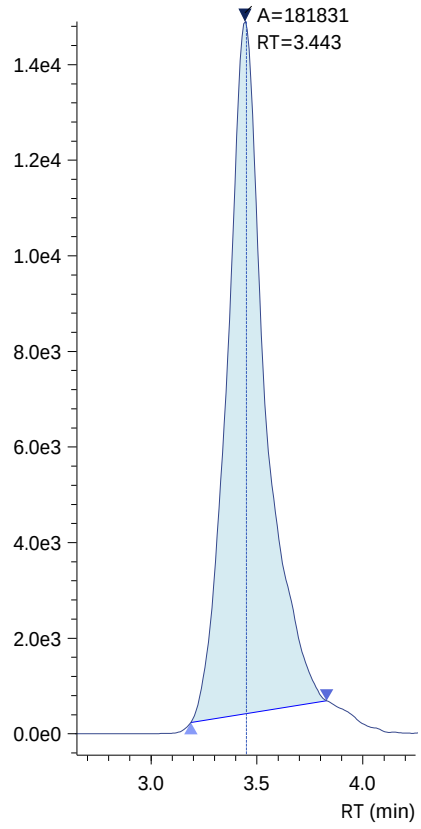
R1 101.00>85.00 (-) A=3004 2.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

CCV

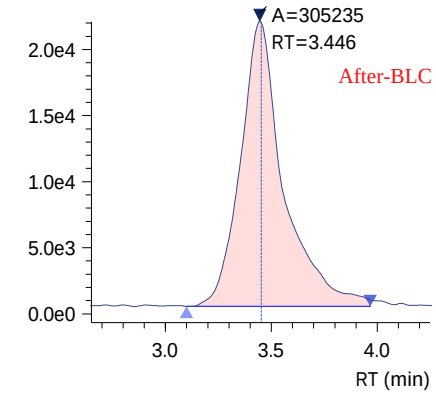
Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.446	3052 35	205946	10.1 511	ng/mL	101.00 >85.00	33.43	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2059 46	205946	1.0000	ng/mL	----	----	

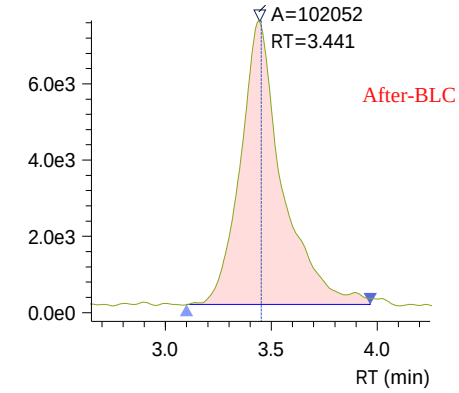
Perchlorate

Conc 10.1511
R#1 33.43 (35.24)

Q 99.00>83.00 (-) 2.21e4



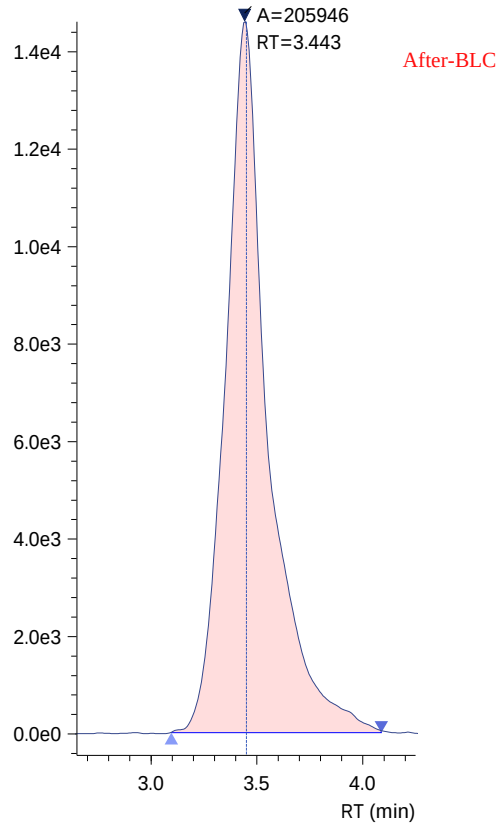
R1 101.00>85.00 (-) 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/25/2024 12:31:43 PM

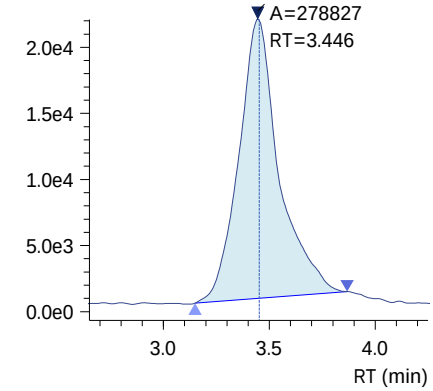
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

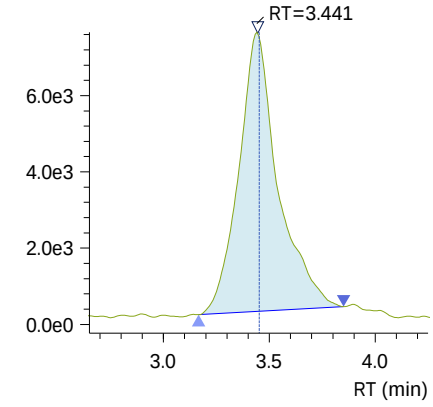
Perchlorate

Conc 10.4489
R#1 33.79 (35.24)

Q 99.00>83.00 (-) 2.21e4



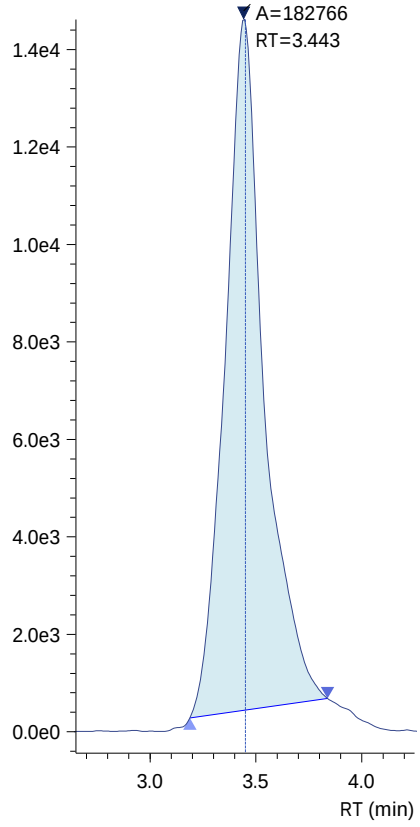
R1 101.00>85.00 (-) A=94215 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

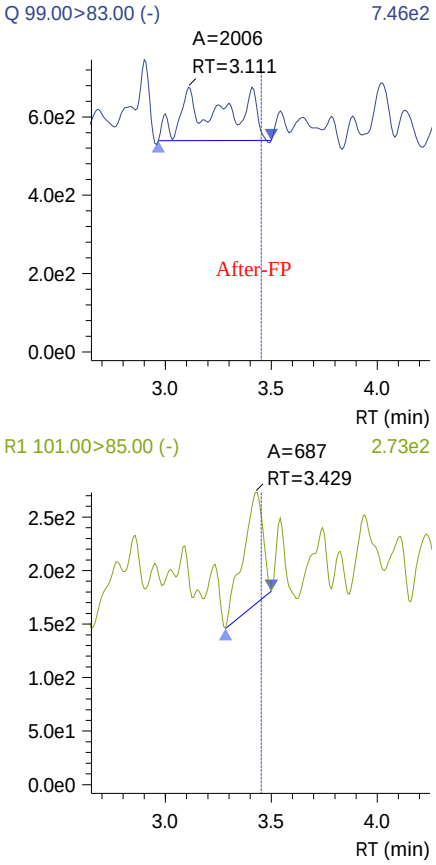
IB

Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.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	----	----	186191	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	186191	186191	1.0000	ng/mL	----	----	

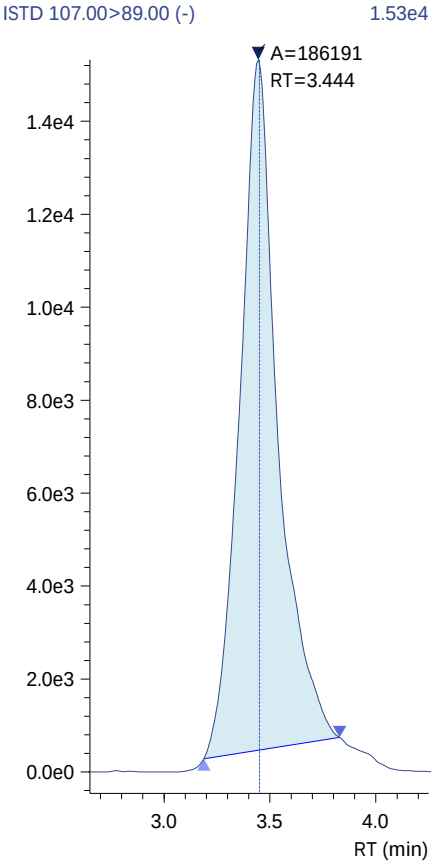
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

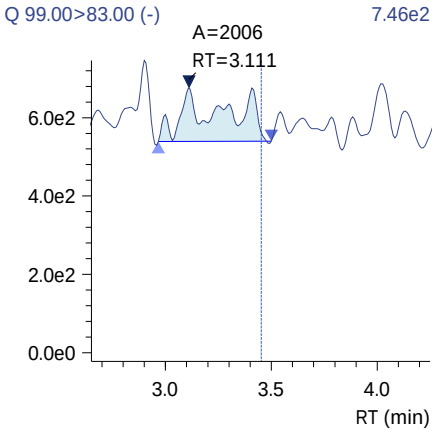
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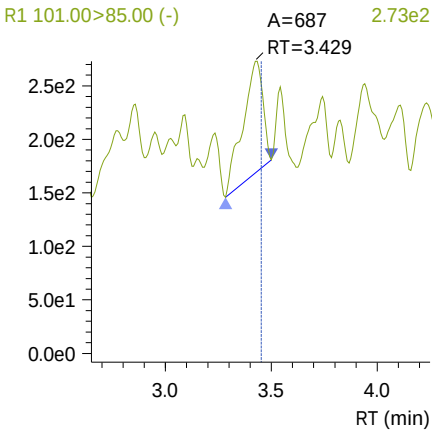
IB

Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

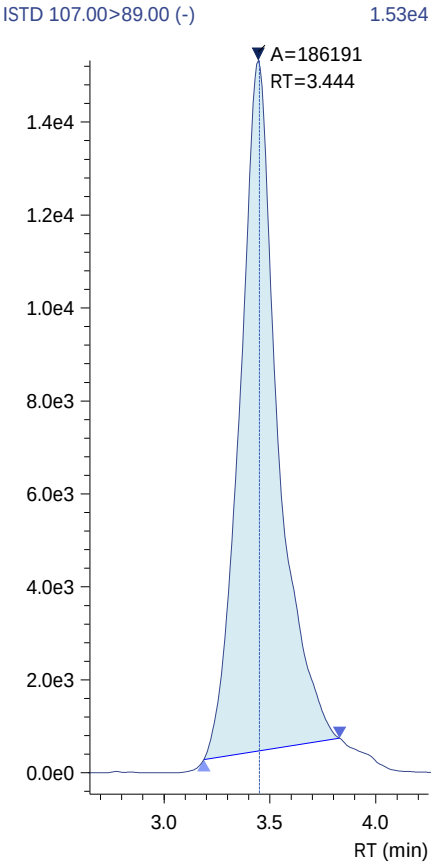
Conc 0.0738
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

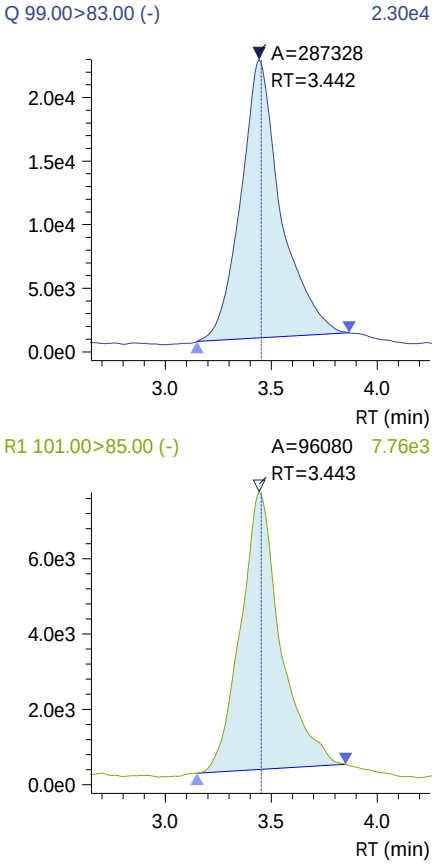
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-031.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	3.442	2873 28	211144	9.3204	ng/mL	101.00 >85.00	33.44	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	2111 44	211144	1.0000	ng/mL	----	----	

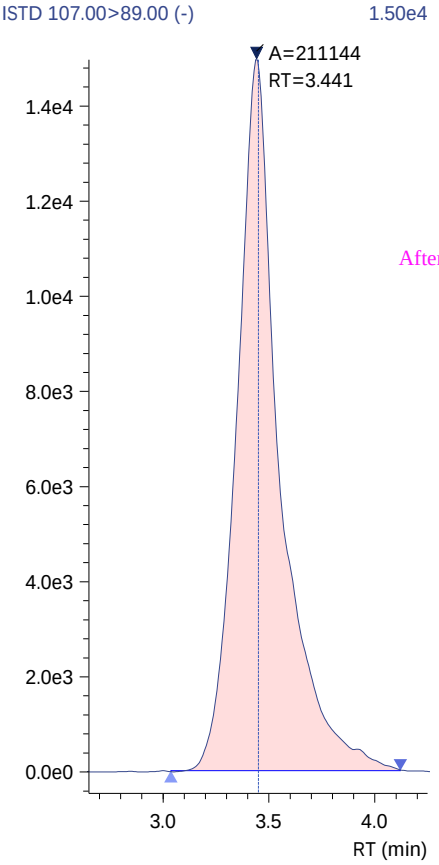
Perchlorate

Conc 9.3204
R#1 33.44 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

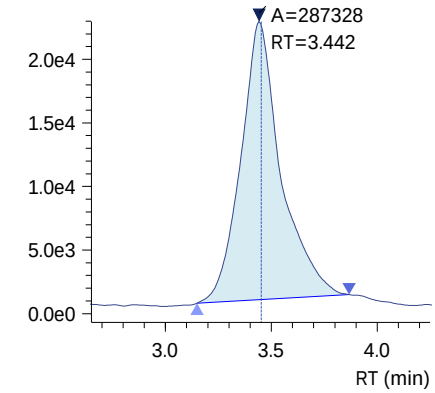
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

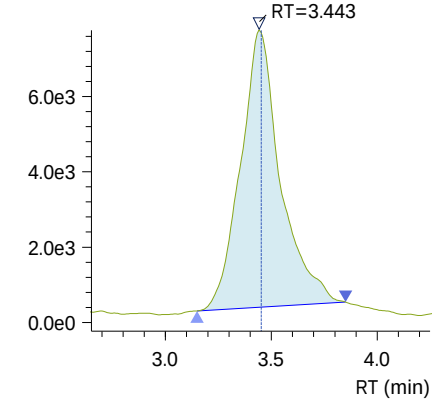
Perchlorate

Conc 10.3005
R#1 33.44 (35.24)

Q 99.00>83.00 (-) 2.30e4



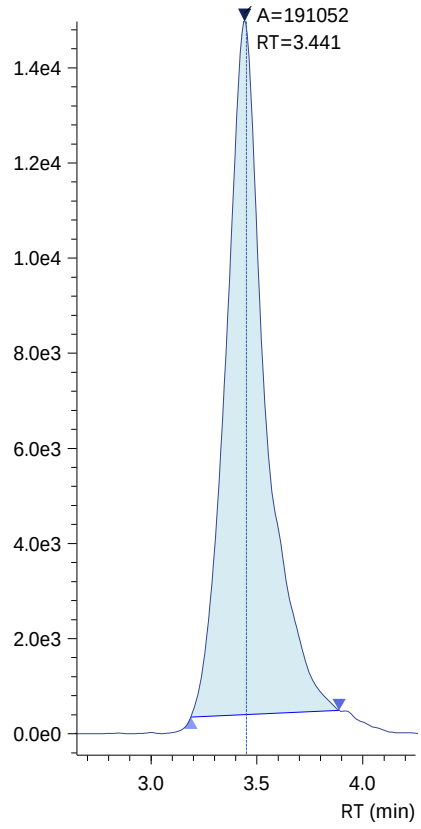
R1 101.00>85.00 (-) A=96080 7.76e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

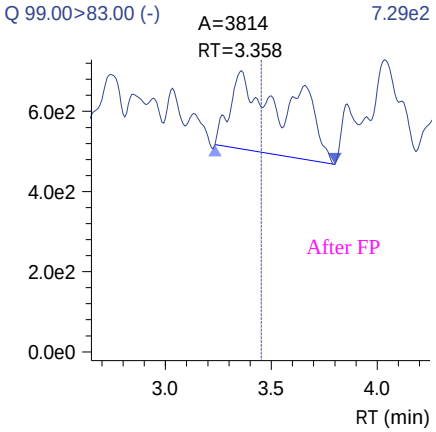
IB

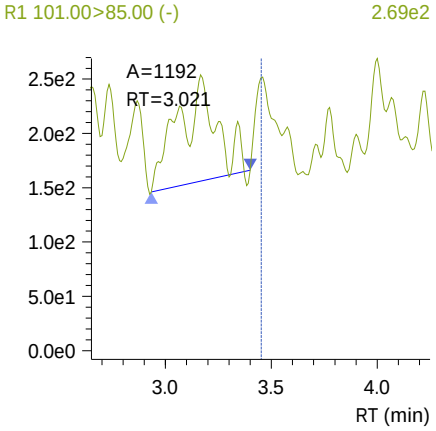
Sample ID: IB
Date Acquired: 6/21/2024 2:48:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	192805	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.443	192805	192805	1.0000	ng/mL	----	----	

Perchlorate

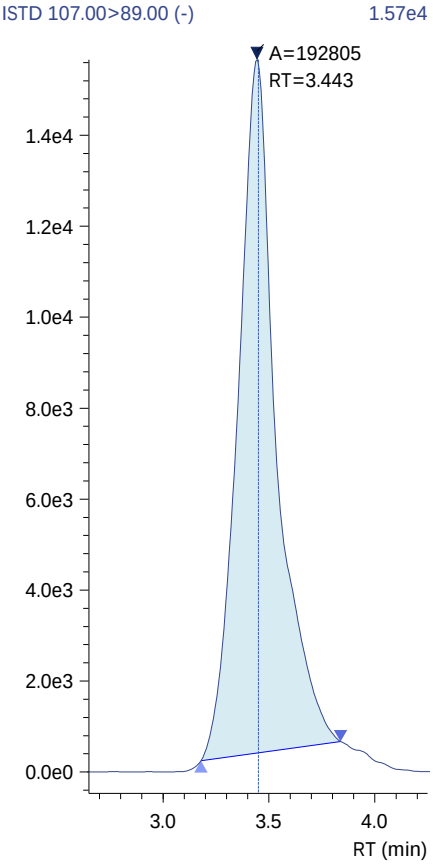
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

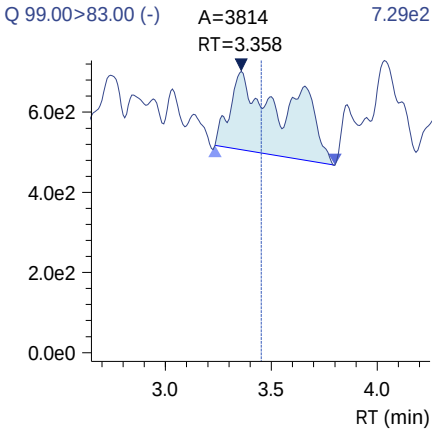
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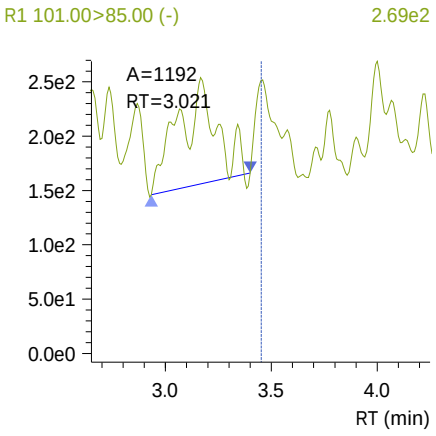
IB

Sample ID: IB
Date Acquired: 6/21/2024 2:48:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

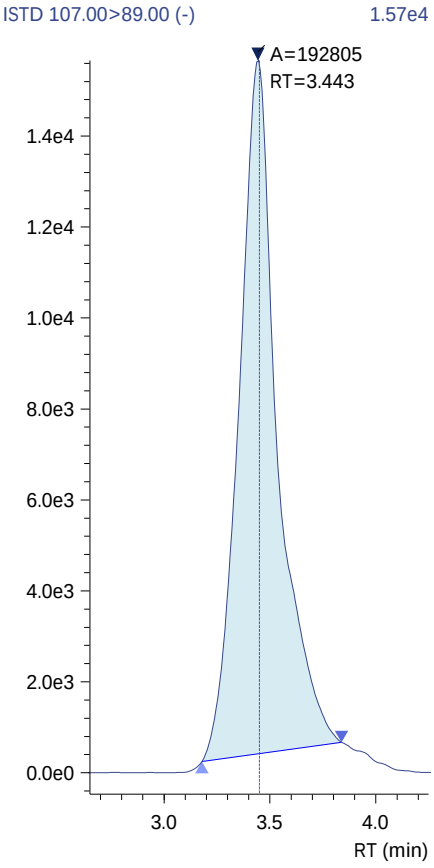
Conc 0.1355
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

CCV

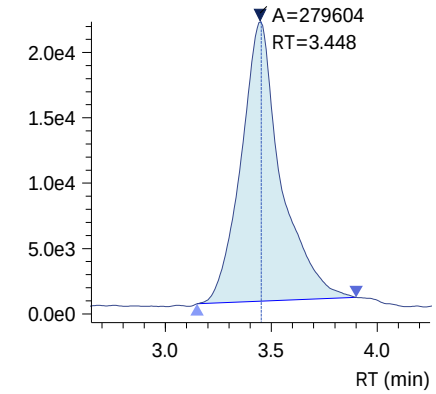
Sample ID: CCV
Date Acquired: 6/21/2024 3:52:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.448	279604	202336	9.4646	ng/mL	101.00 >85.00	33.25	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.438	202336	202336	1.0000	ng/mL	----	----	

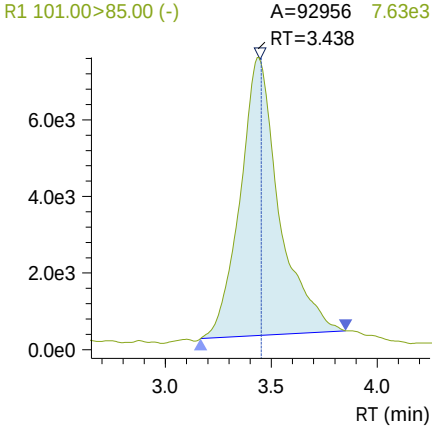
Perchlorate

Conc 9.4646
R#1 33.25 (35.24)

Q 99.00>83.00 (-) 2.24e4



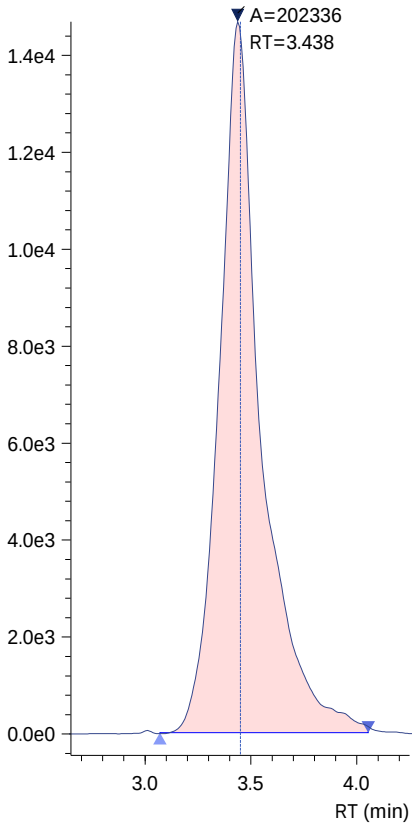
R1 101.00>85.00 (-) A=92956 7.63e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.47e4



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

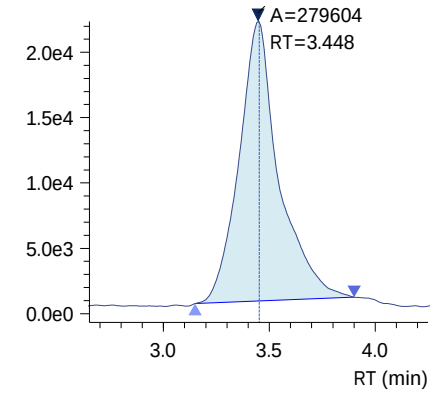
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 3:52:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

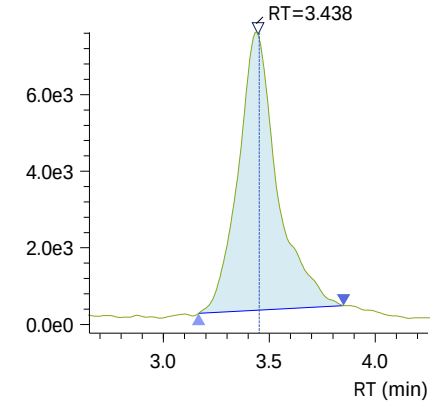
Perchlorate

Conc 10.4703
R#1 33.25 (35.24)

Q 99.00>83.00 (-) 2.24e4



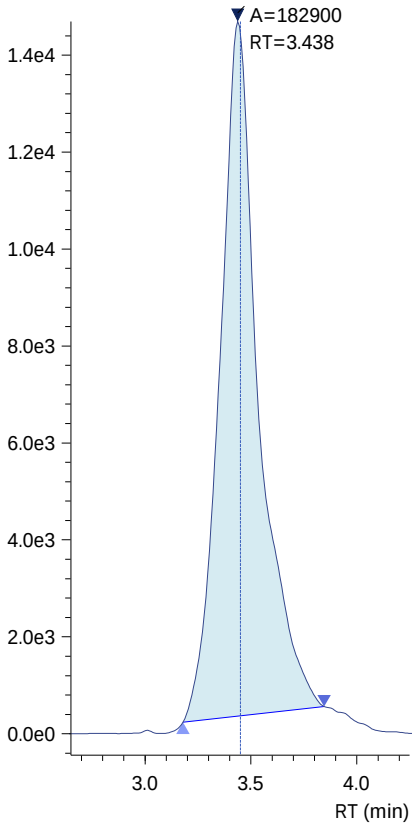
R1 101.00>85.00 (-) A=92956 7.63e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.47e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

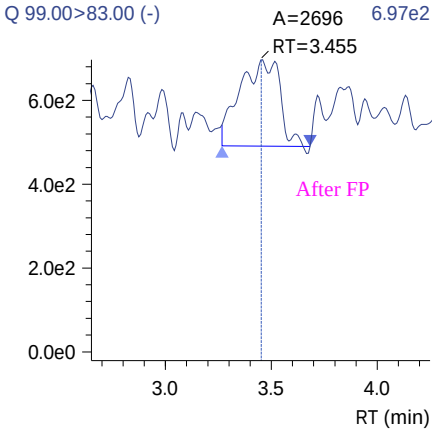
IB

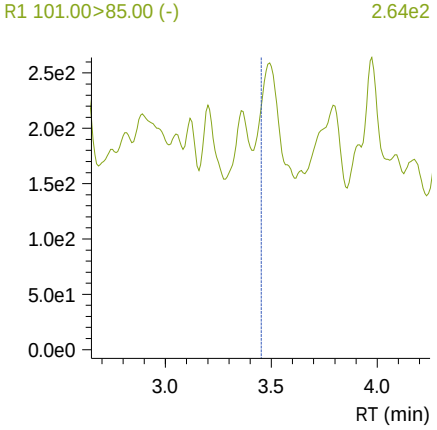
Sample ID: IB
Date Acquired: 6/21/2024 3:57:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	209137	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	209137	209137	1.0000	ng/mL	----	----	

Perchlorate

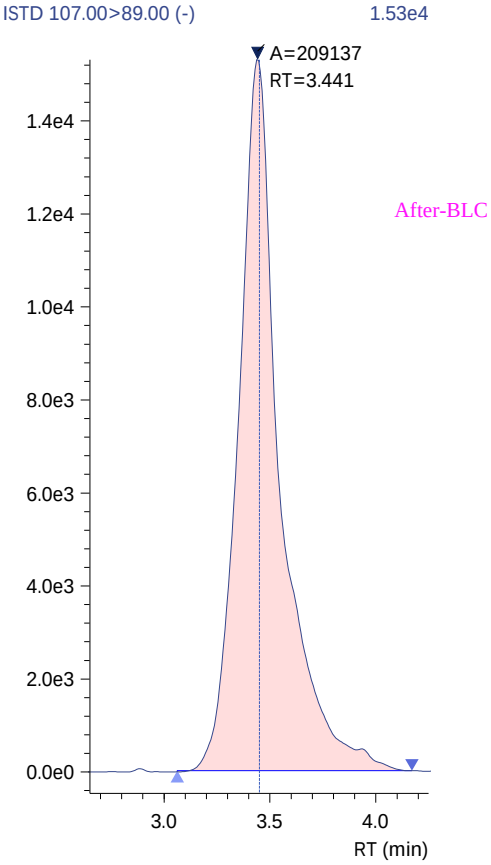
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

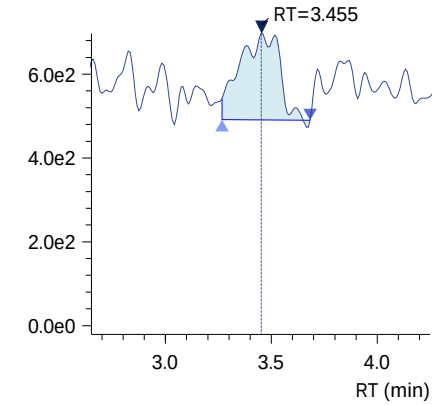
IB

Sample ID: IB
Date Acquired: 6/21/2024 3:57:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

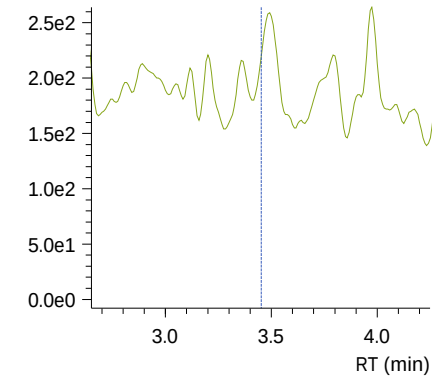
Perchlorate

Conc 0.1004
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=2696 6.97e2



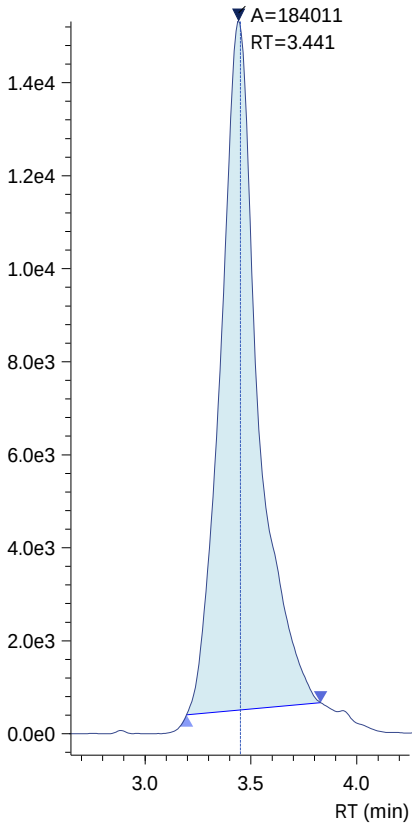
R1 101.00>85.00 (-) 2.64e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.53e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

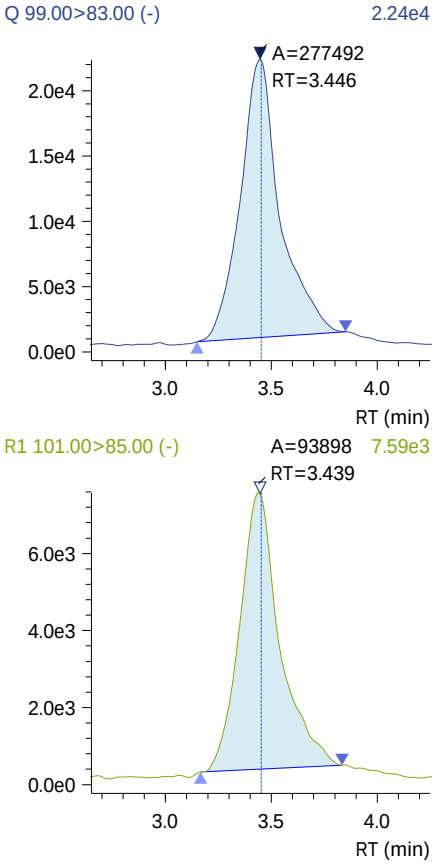
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 4:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-052.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	3.446	277492	207383	9.1645	ng/mL	101.00 >85.00	33.84	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.440	207383	207383	1.0000	ng/mL	----	----	

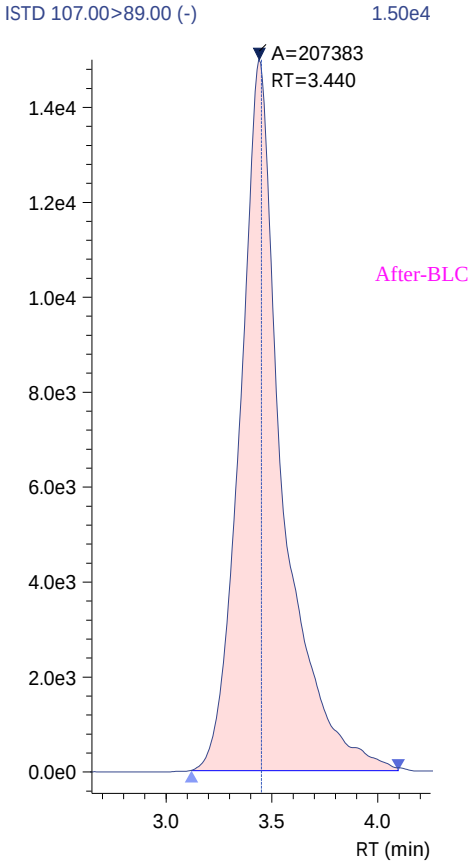
Perchlorate

Conc 9.1645
R#1 33.84 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

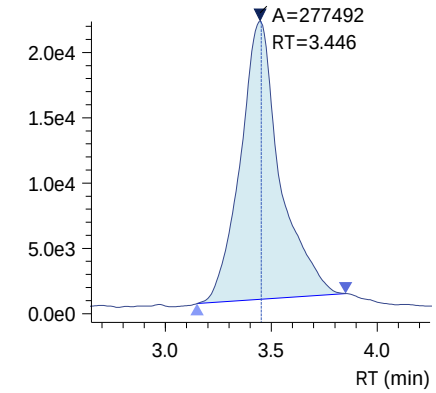
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 4:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-052.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

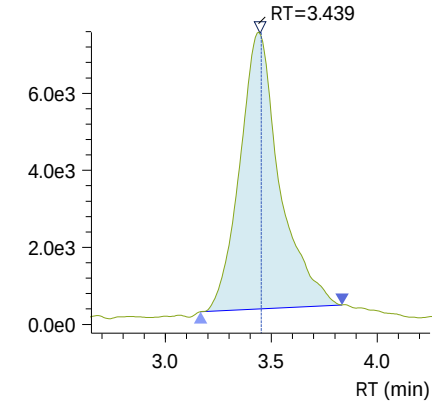
Perchlorate

Conc 10.1401
R#1 33.84 (35.24)

Q 99.00>83.00 (-) 2.24e4



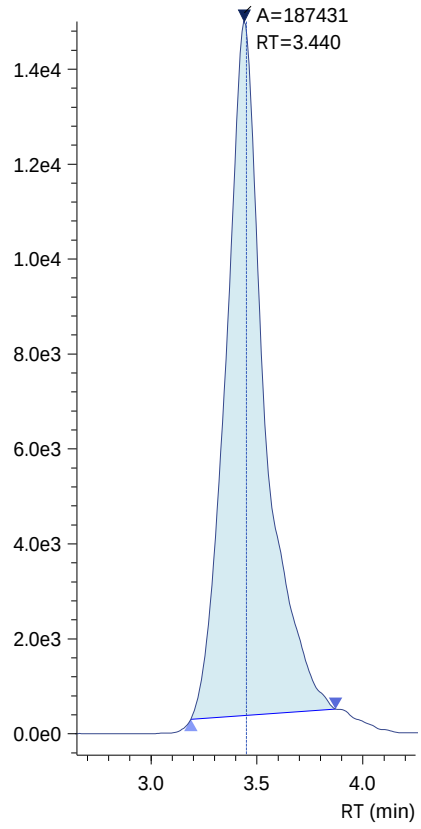
R1 101.00>85.00 (-) A=93898 7.59e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

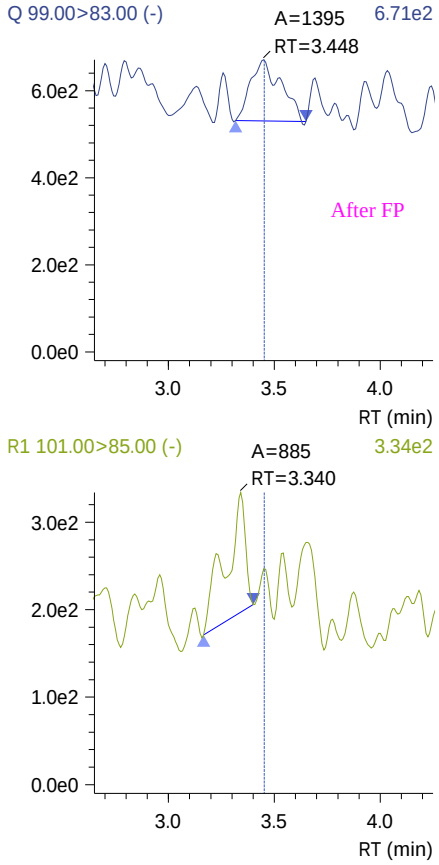
IB

Sample ID: IB
Date Acquired: 6/21/2024 4:47:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-053.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	----	----	190035	----	ng/mL	101.00 >85.00	63.46	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.441	190035	190035	1.0000	ng/mL	----	----	

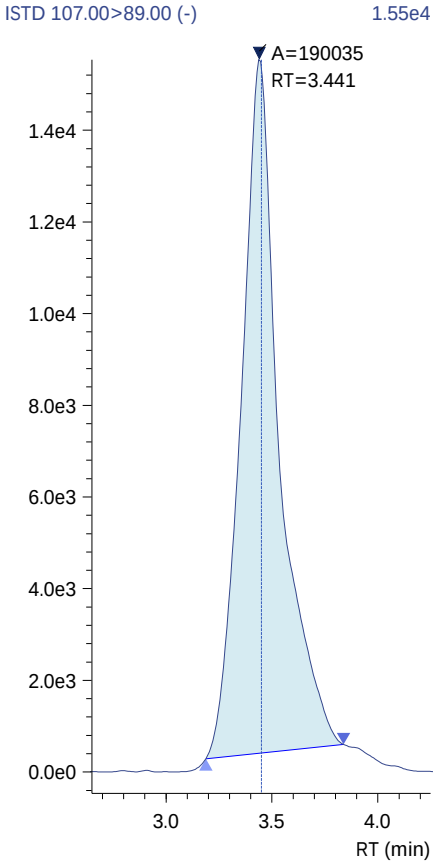
Perchlorate

Conc ----
R#1 63.46 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

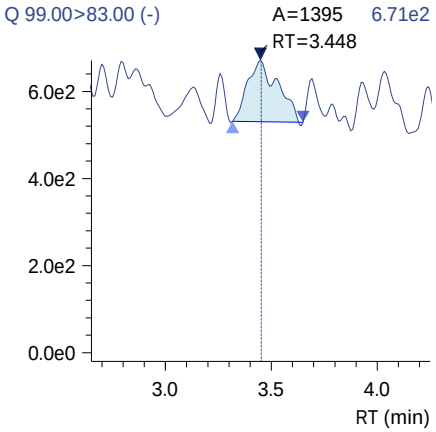
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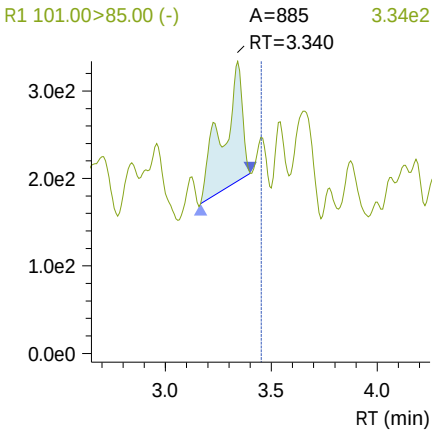
IB

Sample ID: IB
Date Acquired: 6/21/2024 4:47:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-053.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

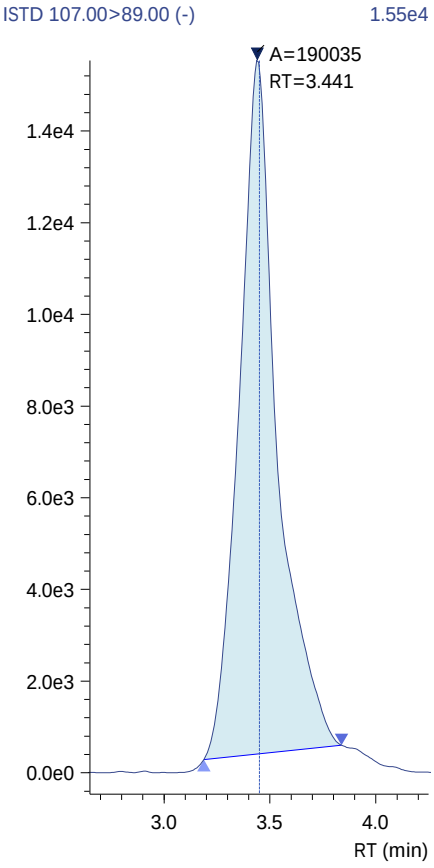
Conc 0.0503
R#1 63.46 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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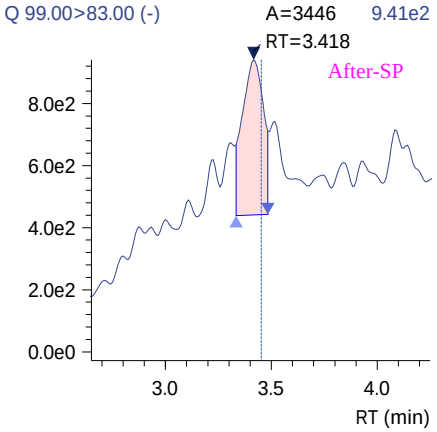
EQ2400335-05MS

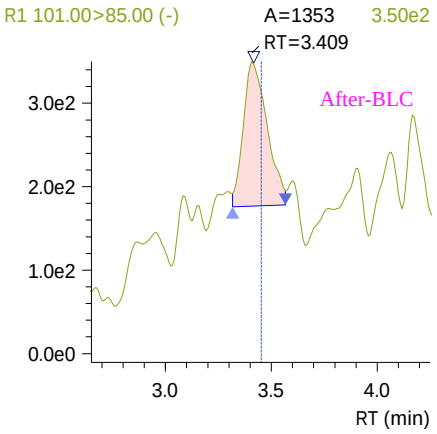
Sample ID: EQ2400335-05MS
Date Acquired: 6/21/2024 1:24:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-017.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.418	3446	203560	0.1159	ng/mL	101.00 >85.00	39.27	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.429	2035 60	203560	1.0000	ng/mL	----	----	

Perchlorate

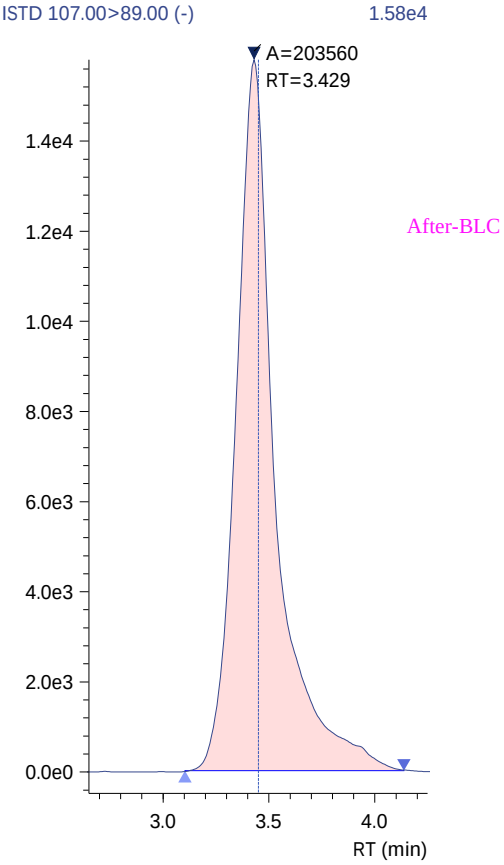
Conc 0.1159
R#1 39.27 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

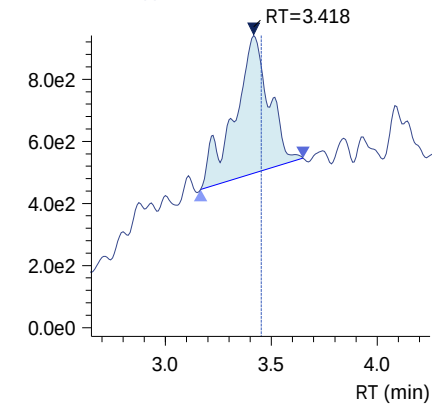
EQ2400335-05MS

Sample ID: EQ2400335-05MS
Date Acquired: 6/21/2024 1:24:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-017.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 3

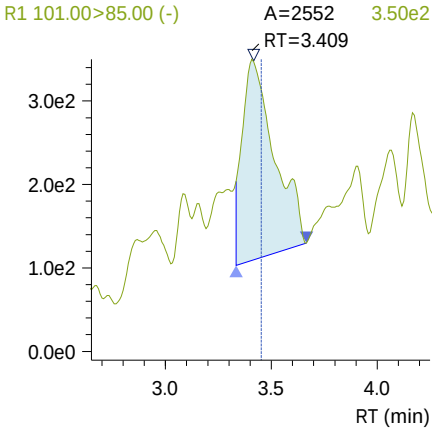
Perchlorate

Conc 0.1971
R#1 50.23 (35.24)

Q 99.00>83.00 (-) A=5081 9.41e2



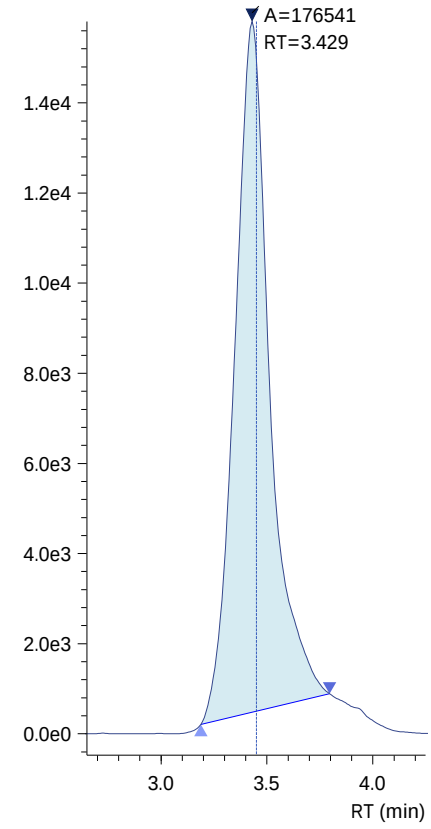
R1 101.00>85.00 (-) A=2552 3.50e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



Insight Report

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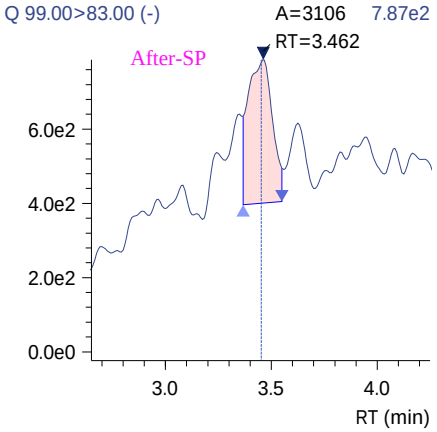
EQ2400335-06DMS

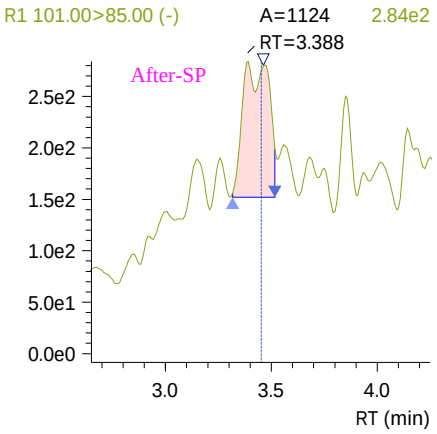
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Date Acquired: 6/21/2024 1:47:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-021.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.462	3106	186835	0.1139	ng/mL	101.00 >85.00	36.20	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.428	1868 35	186835	1.0000	ng/mL	----	----	

Perchlorate

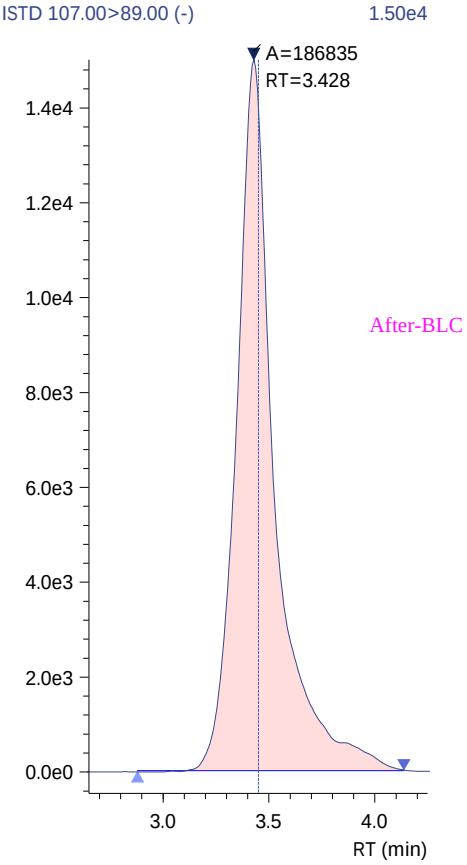
Conc 0.1139
R#1 36.20 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

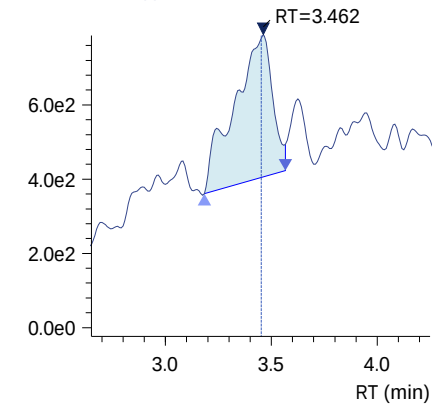
EQ2400335-06DMS

Sample ID: EQ2400335-06DMS
Date Acquired: 6/21/2024 1:47:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-021.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 3

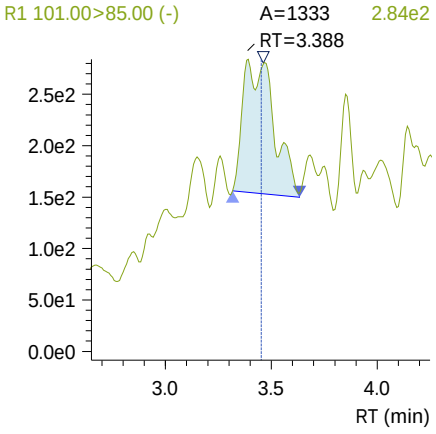
Perchlorate

Conc 0.2036
R#1 27.38 (35.24)

Q 99.00>83.00 (-) A=4868 7.87e2



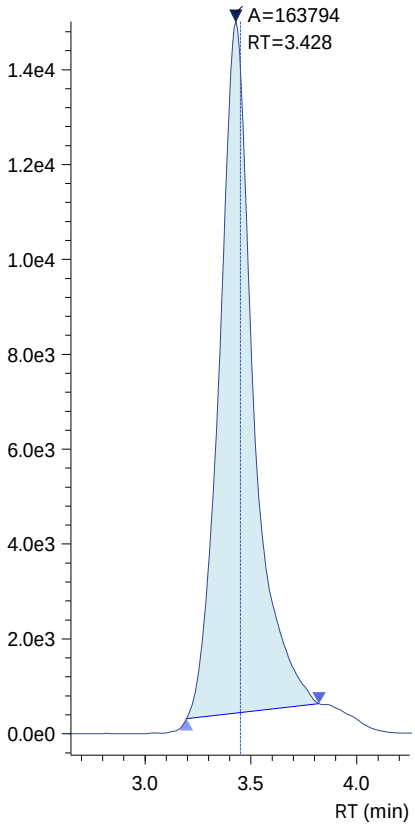
R1 101.00>85.00 (-) A=1333 2.84e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

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E2400691-001

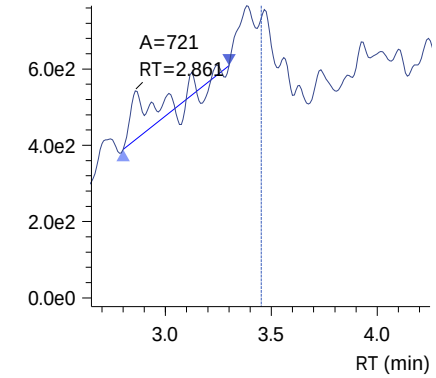
Sample ID: E2400691-001
Date Acquired: 6/21/2024 3:13:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-036.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	201562	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.431	201562	201562	1.0000	ng/mL	----	----	

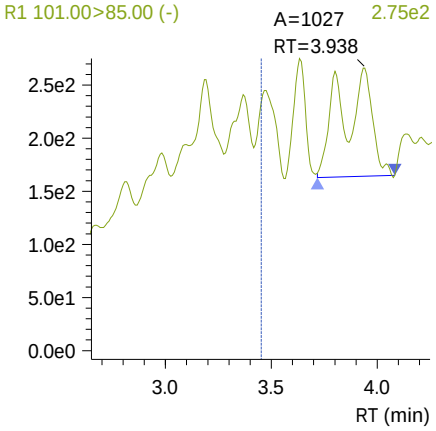
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.66e2



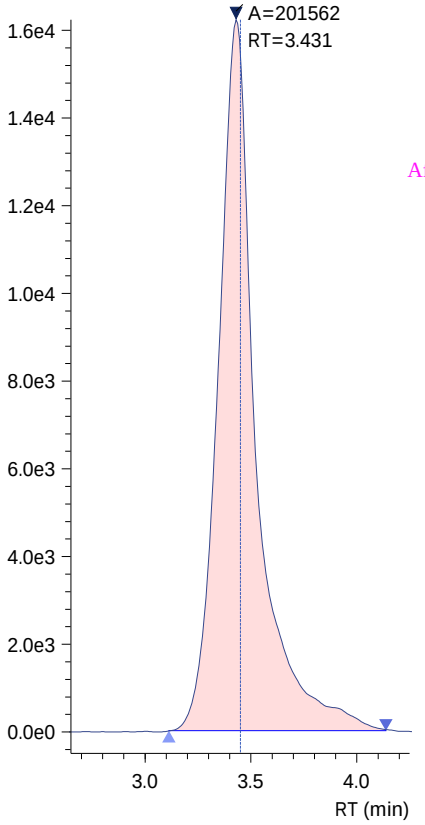
R1 101.00>85.00 (-) 2.75e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

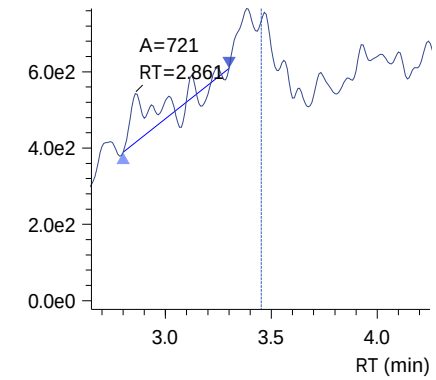
E2400691-001

Sample ID: E2400691-001
Date Acquired: 6/21/2024 3:13:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-036.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 3

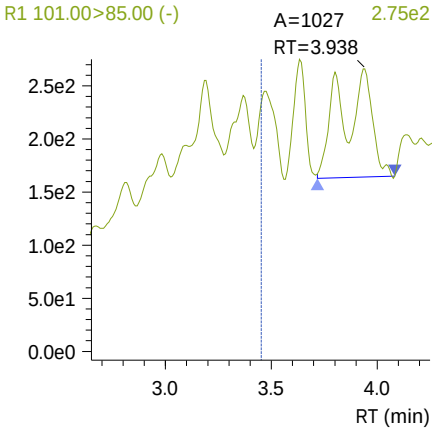
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.66e2



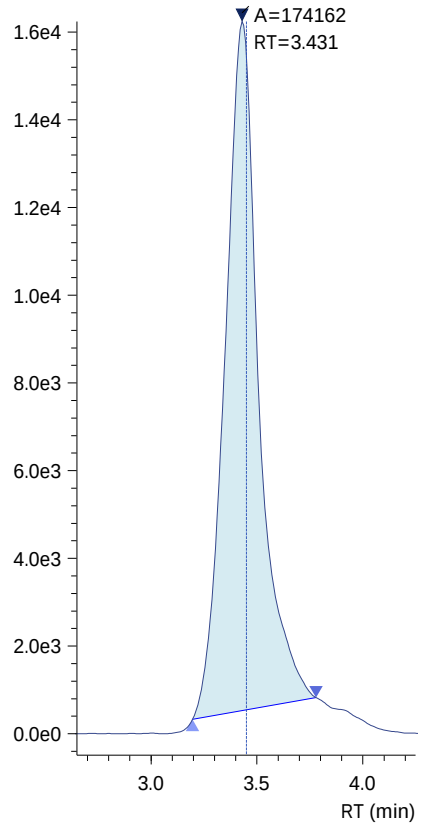
R1 101.00>85.00 (-) 2.75e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

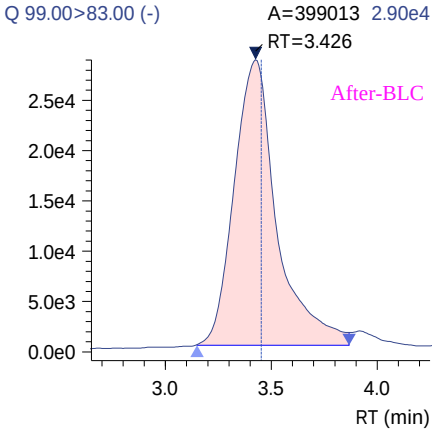
E2400691-002

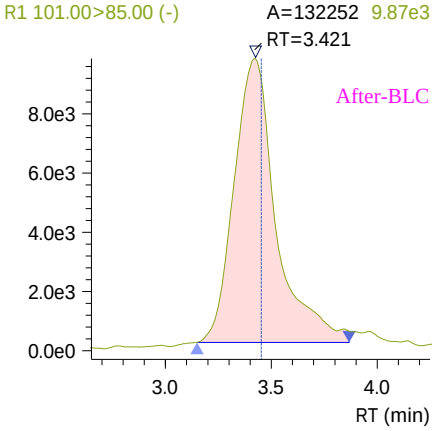
Sample ID: E2400691-002
Date Acquired: 6/21/2024 3:19:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-037.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.426	3990 13	145598	18.7 700	ng/mL	101.00 >85.00	33.15	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.424	1455 98	145598	1.0000	ng/mL	----	----	

Perchlorate

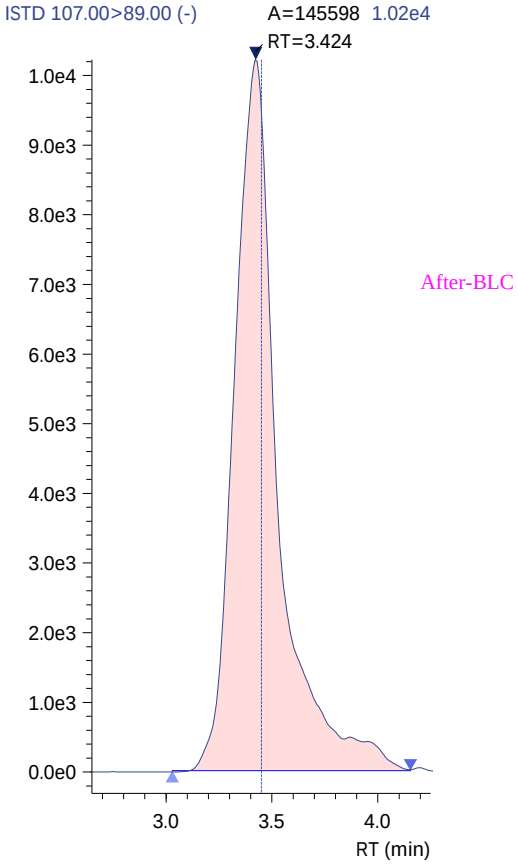
Conc 18.7700
R#1 33.15 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

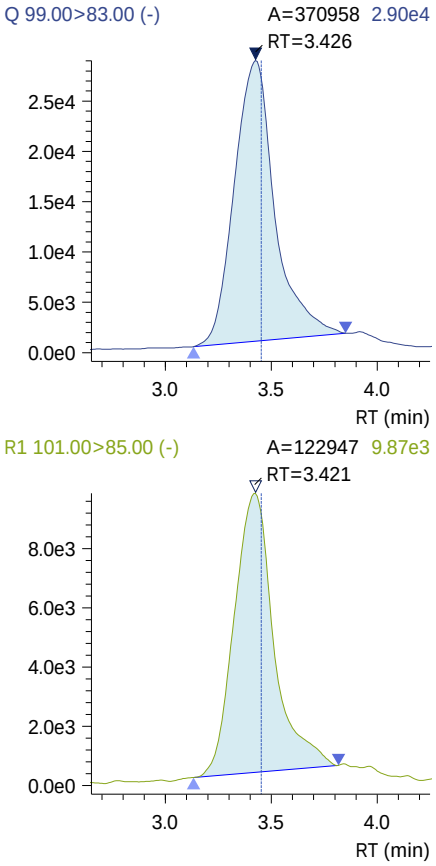
Printed at 6/26/2024 11:50:37 AM

E2400691-002

Sample ID: E2400691-002
Date Acquired: 6/21/2024 3:19:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-037.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 3

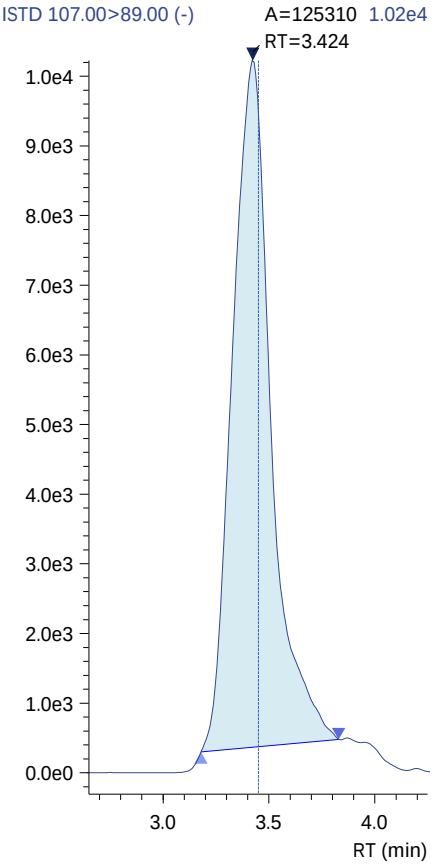
Perchlorate

Conc 20.2755
R#1 33.14 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

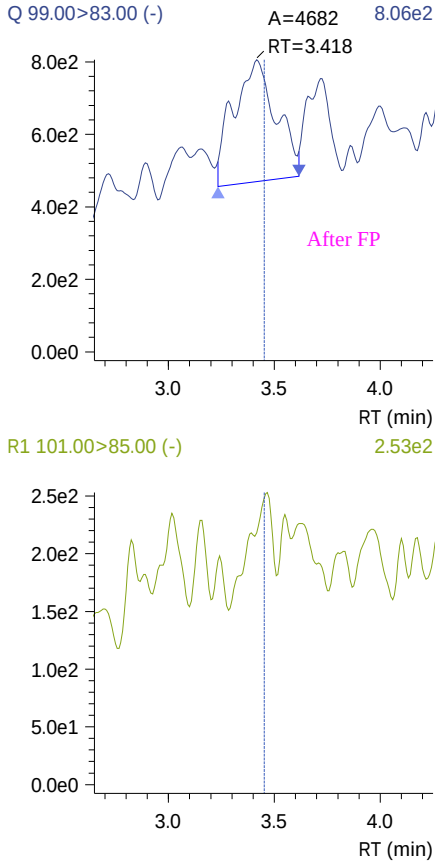
E2400691-005

Sample ID: E2400691-005
Date Acquired: 6/21/2024 3:35:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-040.lcd
Vial: 23 | 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	NI	----	----	242115	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	242115	242115	1.0000	ng/mL	----	----	

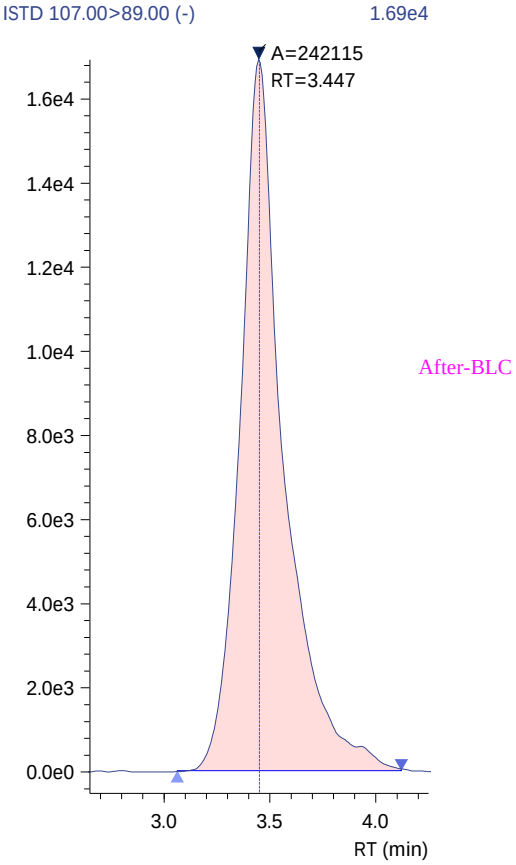
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

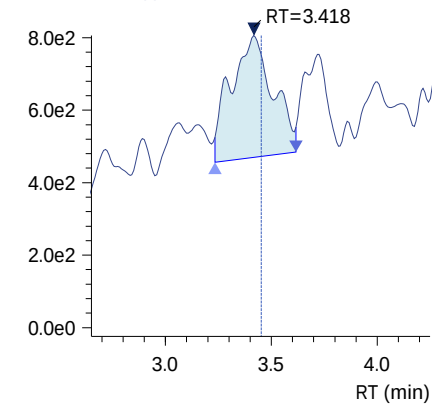
E2400691-005

Sample ID: E2400691-005
Date Acquired: 6/21/2024 3:35:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-040.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 3

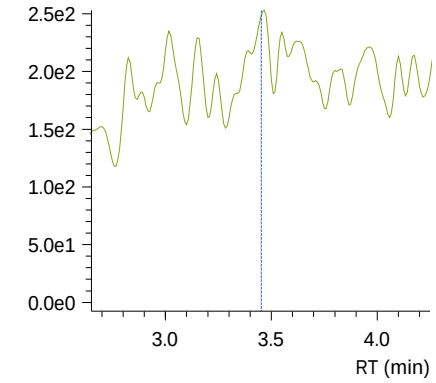
Perchlorate

Conc 0.1496
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4682 8.06e2



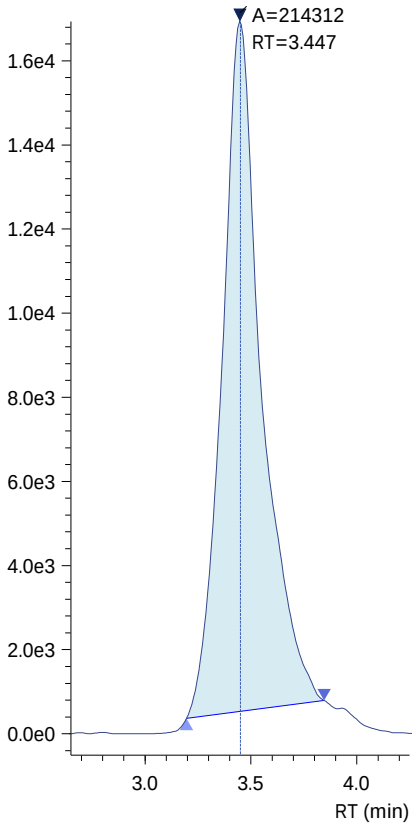
R1 101.00>85.00 (-) 2.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.69e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

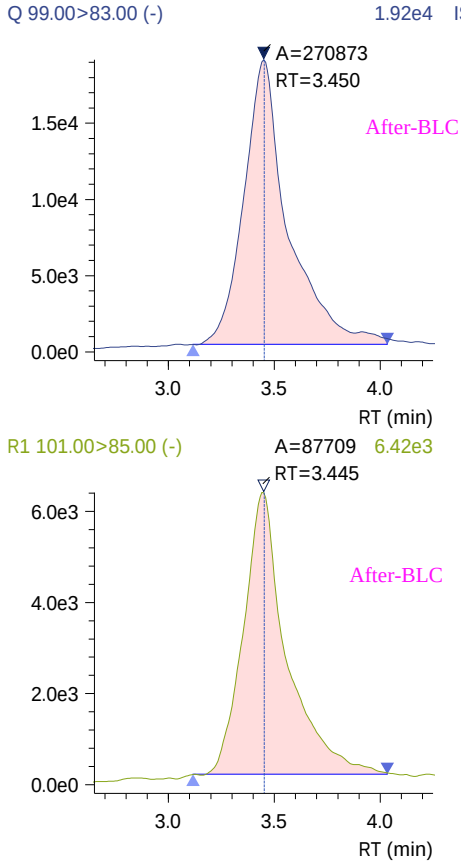
E2400691-006

Sample ID: E2400691-006
Date Acquired: 6/21/2024 3:41:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-041.lcd
Vial: 24 | 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	3.450	2708 73	194844	9.5216	ng/mL	101.00 >85.00	32.38	23.46 -43.30
Sodium Perchlorate-18O4 _IS	M	3.441	1948 44	194844	1.0000	ng/mL	----	----	

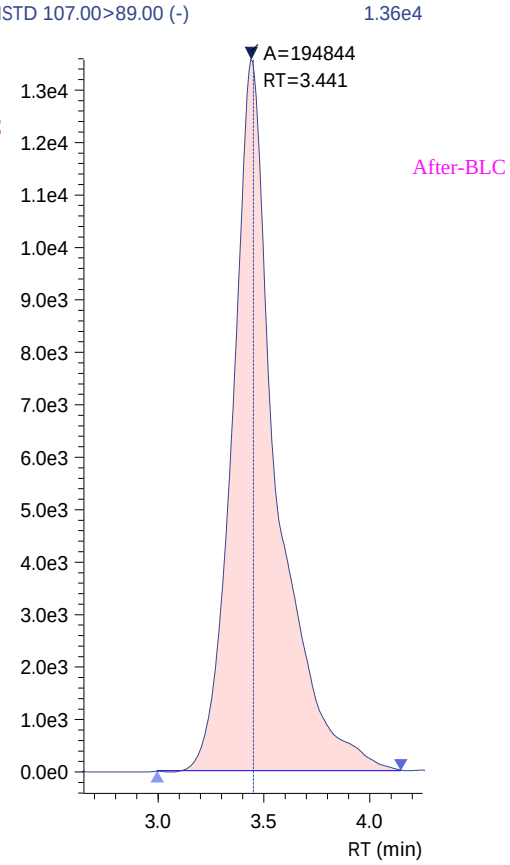
Perchlorate

Conc 9.5216
R#1 32.38 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

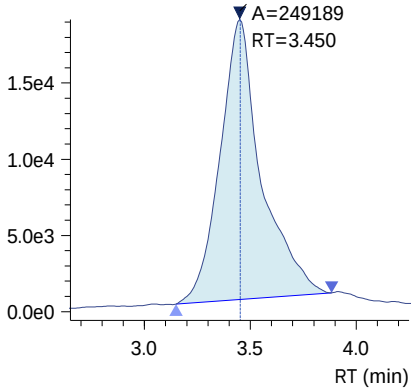
E2400691-006

Sample ID: E2400691-006
Date Acquired: 6/21/2024 3:41:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-041.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 3

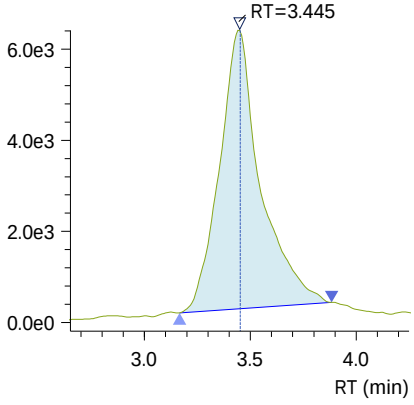
Perchlorate

Conc 9.9308
R#1 33.07 (35.24)

Q 99.00>83.00 (-) 1.92e4



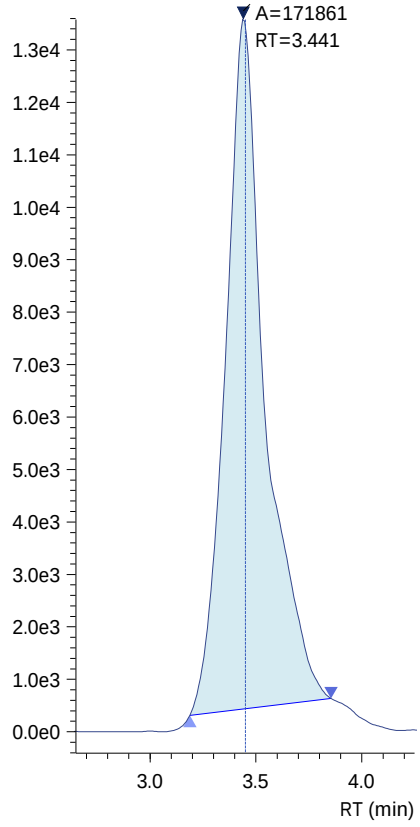
R1 101.00>85.00 (-) A=82399 6.42e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.36e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

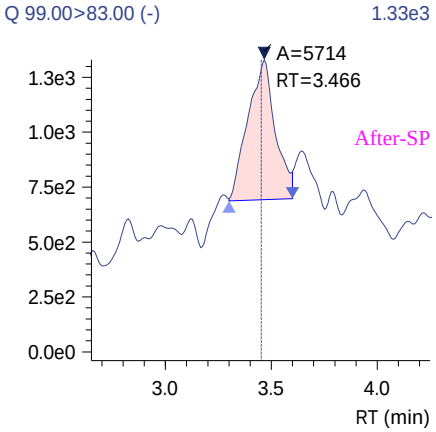
E2400691-007

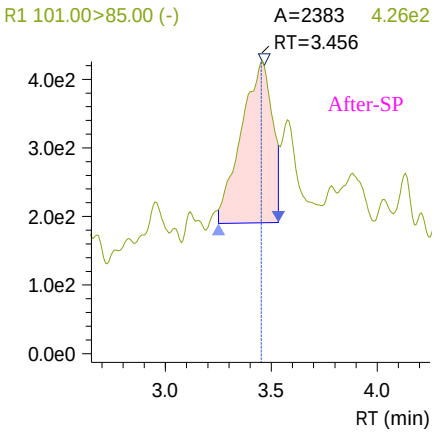
Sample ID: E2400691-007
Date Acquired: 6/21/2024 3:46:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-042.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.466	5714	219131	0.1786	ng/mL	101.00 >85.00	41.70	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	219131	219131	1.0000	ng/mL	----	----	

Perchlorate

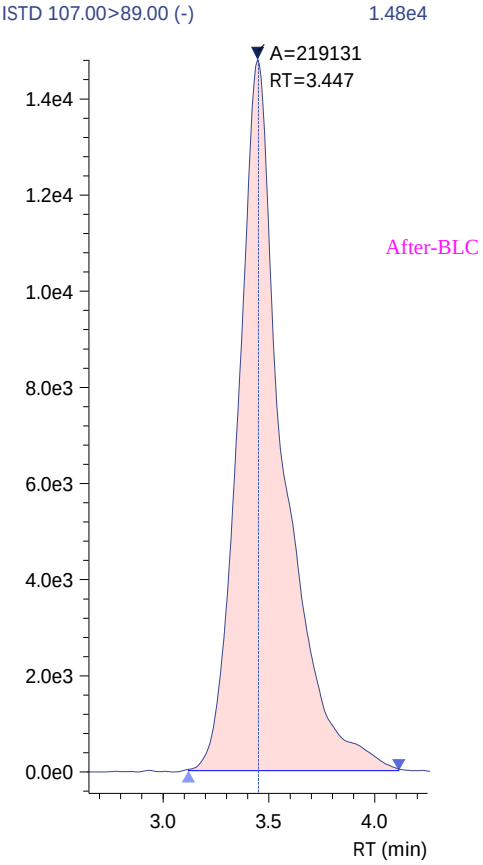
Conc 0.1786
R#1 41.70 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

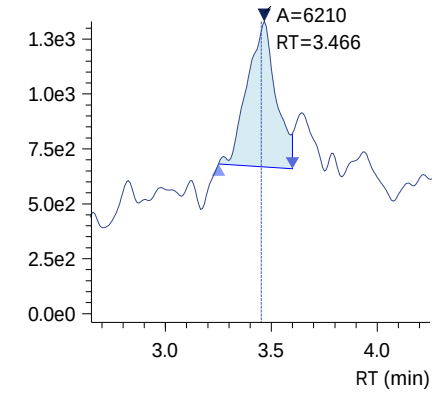
E2400691-007

Sample ID: E2400691-007
Date Acquired: 6/21/2024 3:46:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-042.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 3

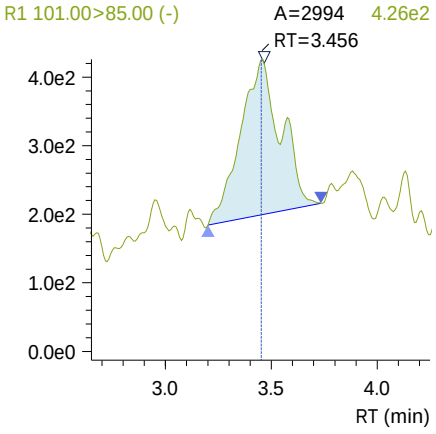
Perchlorate

Conc 0.2163
R#1 48.20 (35.24)

Q 99.00>83.00 (-) 1.33e3



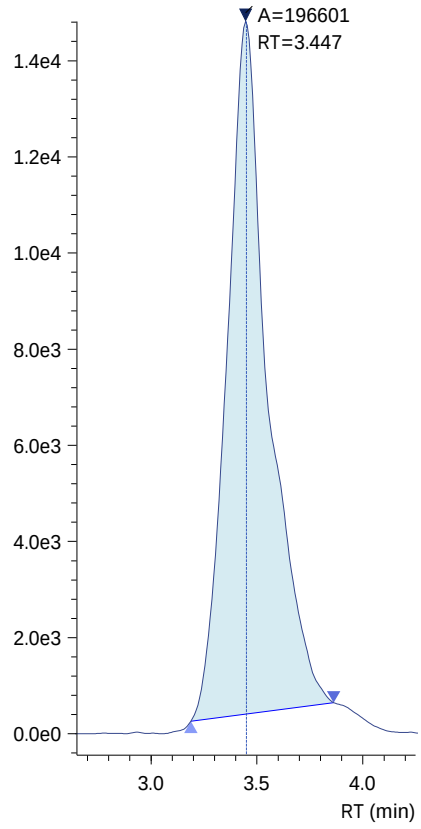
R1 101.00>85.00 (-) A=2994 4.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

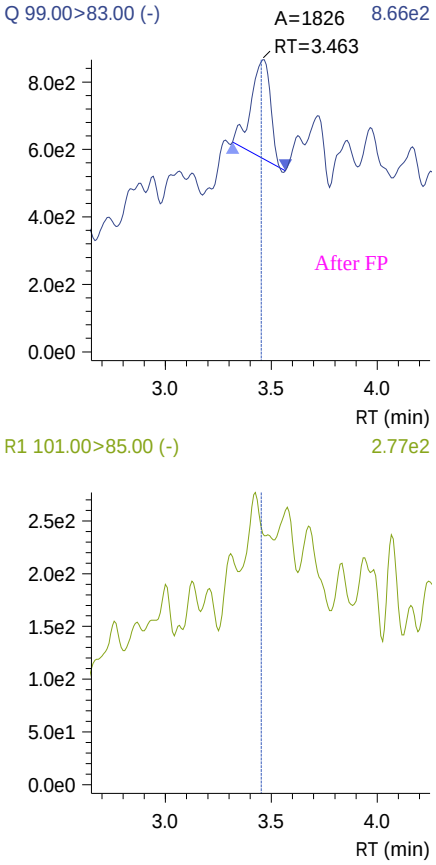
E2400691-008

Sample ID: E2400691-008
Date Acquired: 6/21/2024 4:03:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-045.lcd
Vial: 26 | 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	NI	----	----	225572	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4 _IS	M	3.447	225572	225572	1.0000	ng/mL	----	----	

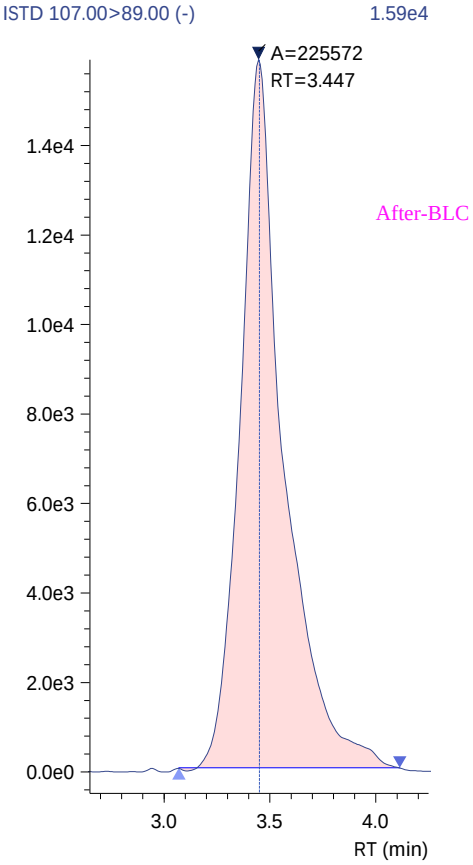
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

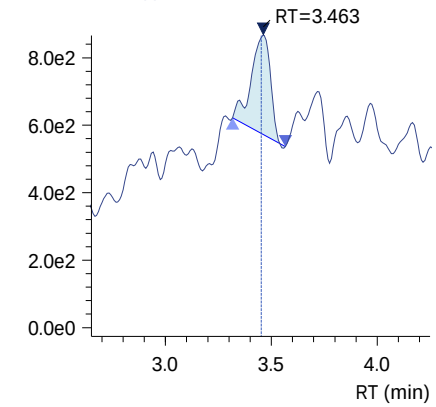
E2400691-008

Sample ID: E2400691-008
Date Acquired: 6/21/2024 4:03:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-045.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 3

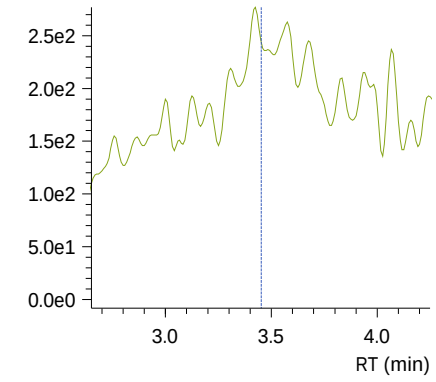
Perchlorate

Conc 0.0617
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1826 8.66e2



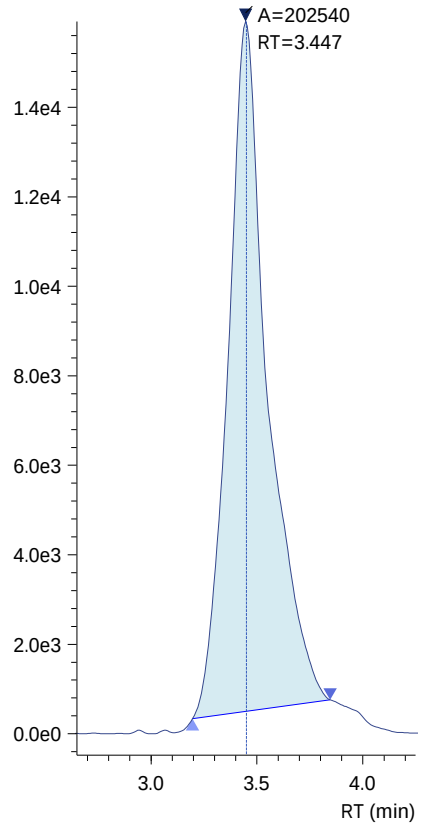
R1 101.00>85.00 (-) 2.77e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.59e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

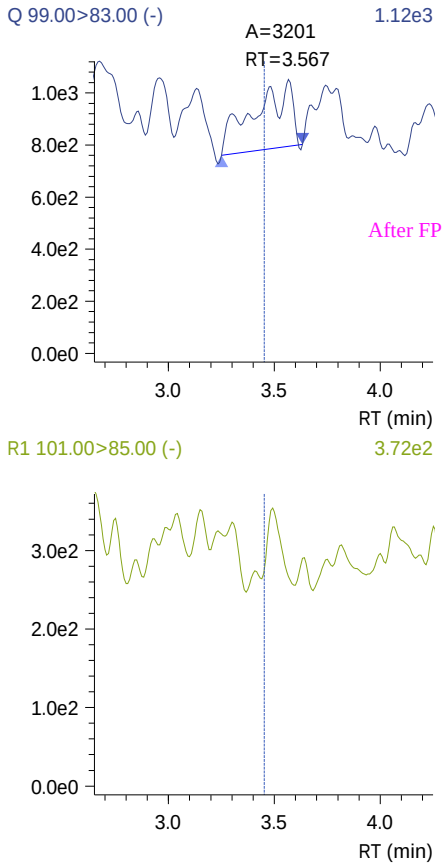
IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.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	----	----	182988	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.457	182988	182988	1.0000	ng/mL	----	----	

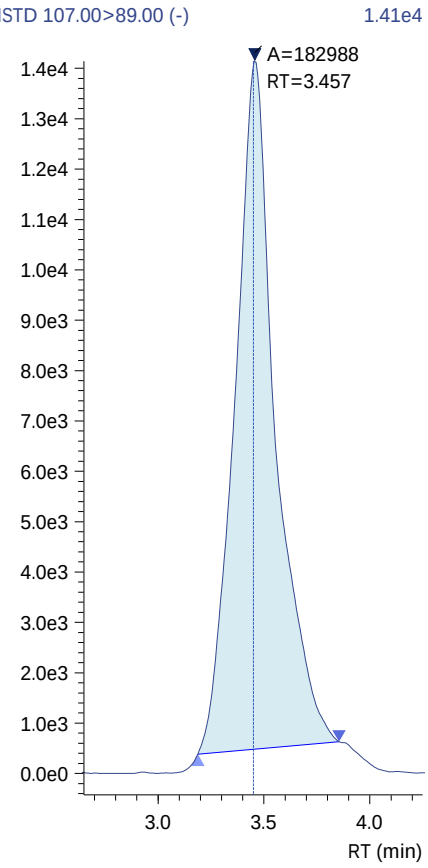
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

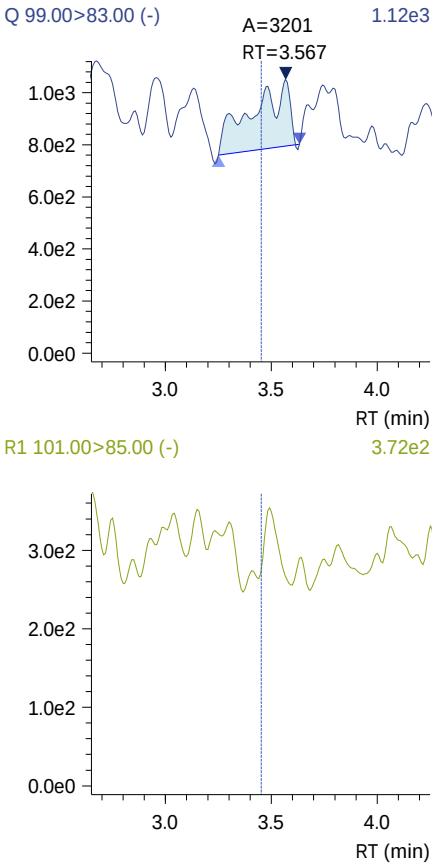
Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

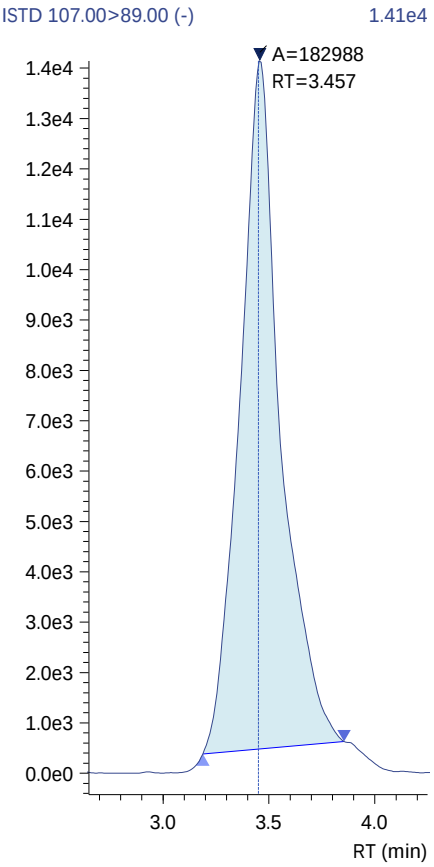
Perchlorate

Conc 0.1198
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

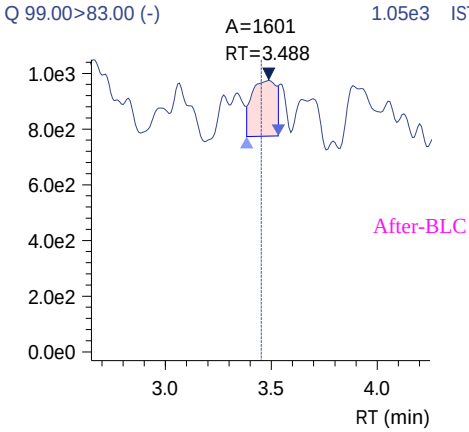
LODV

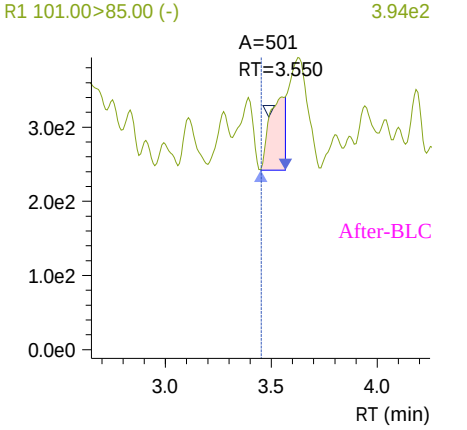
Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.488	1601	198442	0.0552	ng/mL	101.00 >85.00	31.30	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.453	198442	198442	1.0000	ng/mL	----	----	

Perchlorate

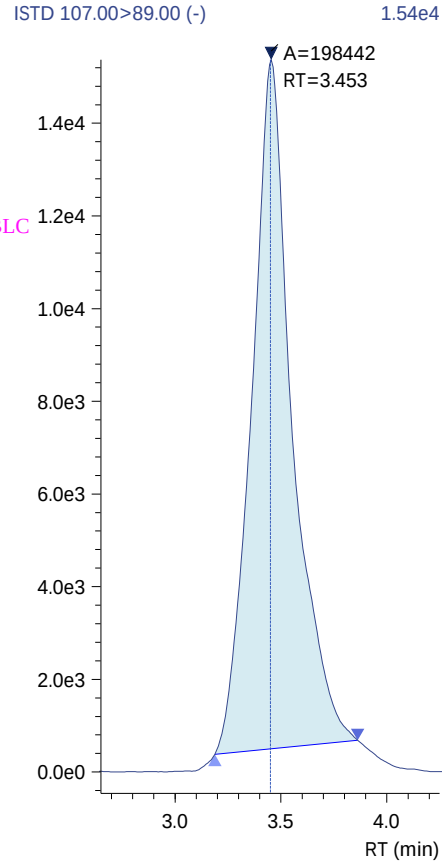
Conc 0.0552
R#1 31.30 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

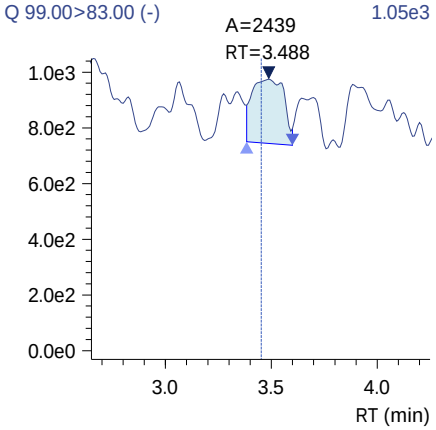
Printed at 6/26/2024 11:58:29 AM

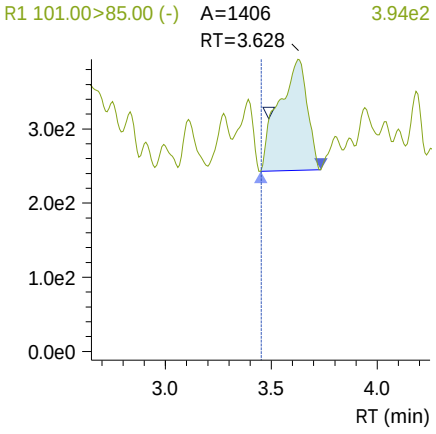
LODV

Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

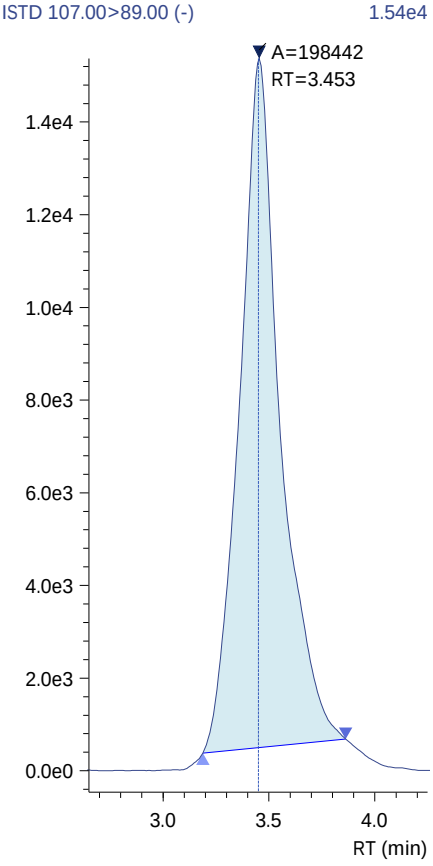
Conc 0.0842
R#1 57.62 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

CCV

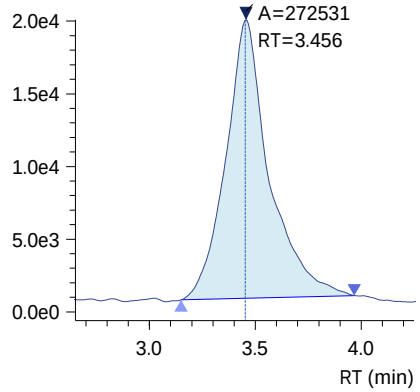
Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	272531	198308	9.4126	ng/mL	101.00 >85.00	31.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.453	198308	198308	1.0000	ng/mL	----	----	

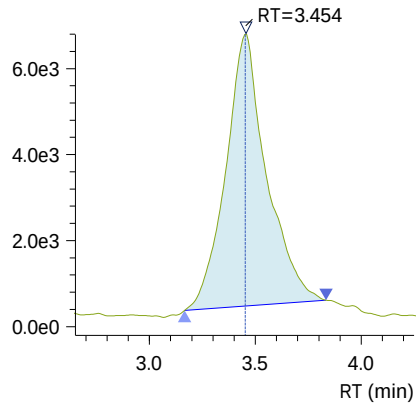
Perchlorate

Conc 9.4126
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



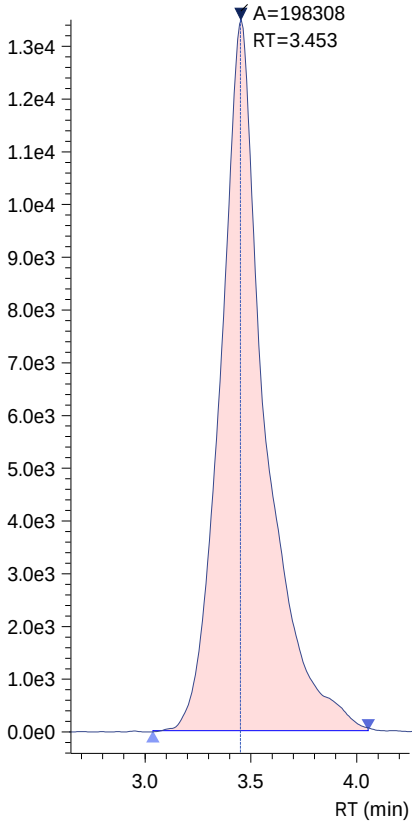
R1 101.00>85.00 (-) A=84538 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

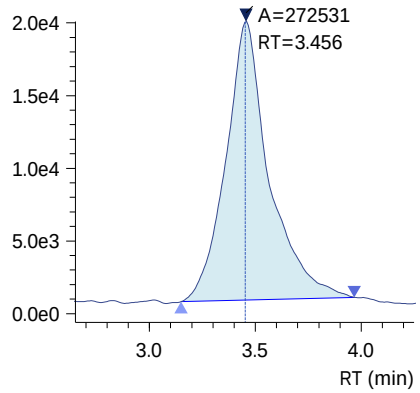
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

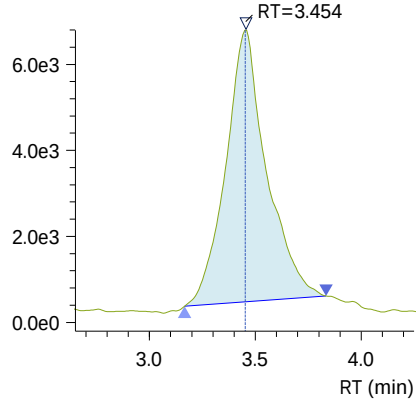
Perchlorate

Conc 10.6506
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



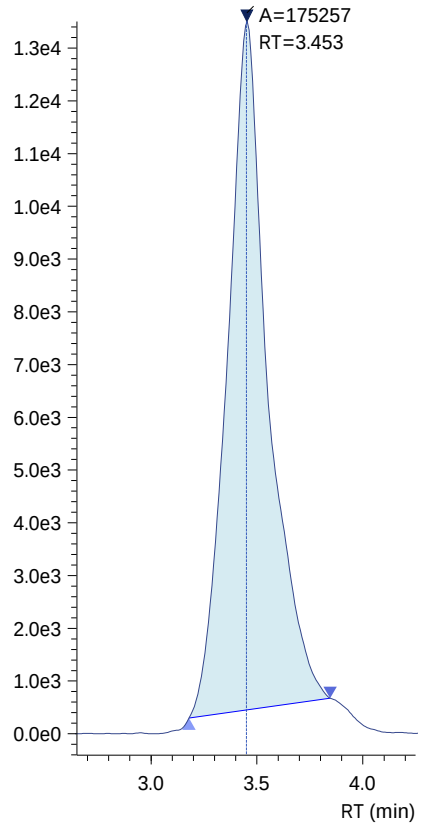
R1 101.00>85.00 (-) A=84538 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

IB

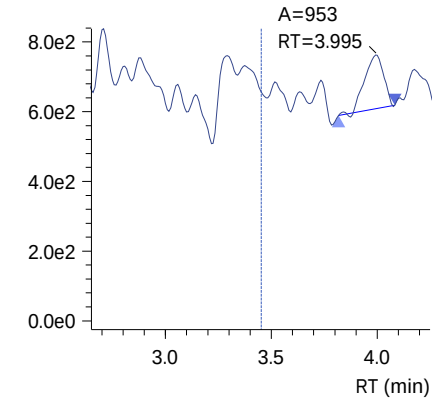
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Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	227162	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.453	227162	227162	1.0000	ng/mL	----	----	

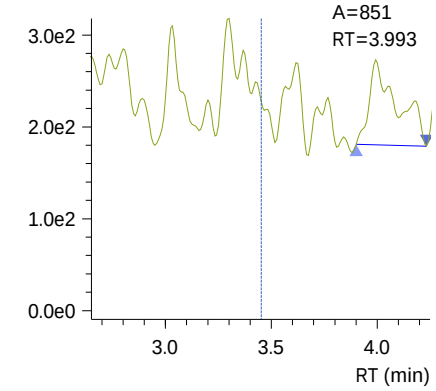
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



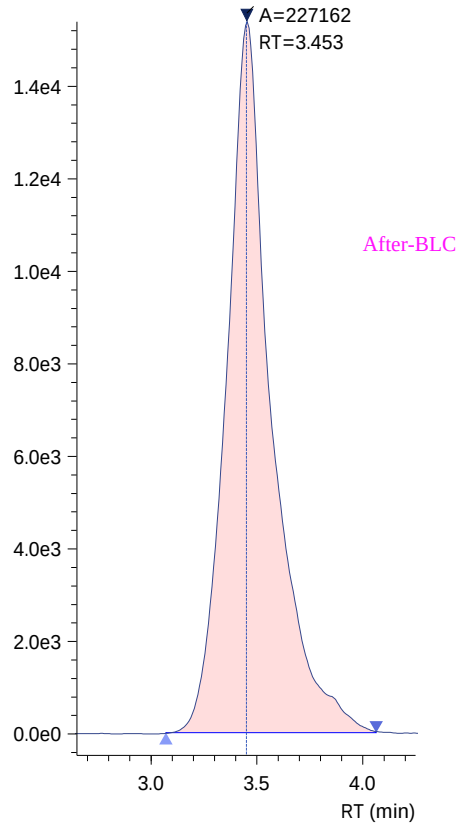
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

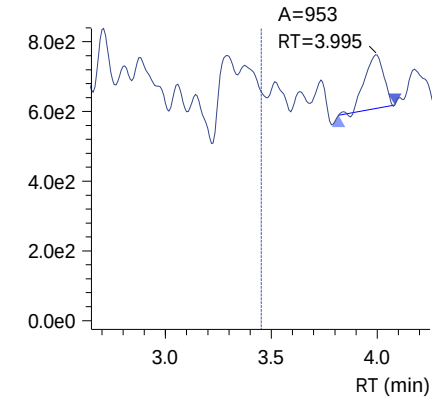
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

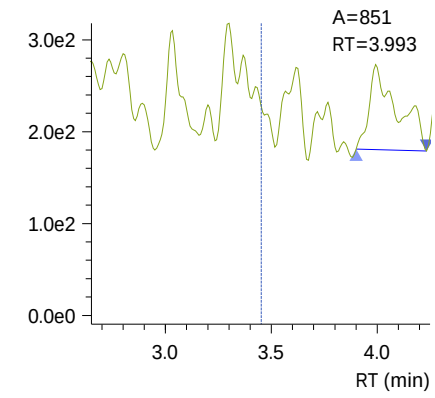
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



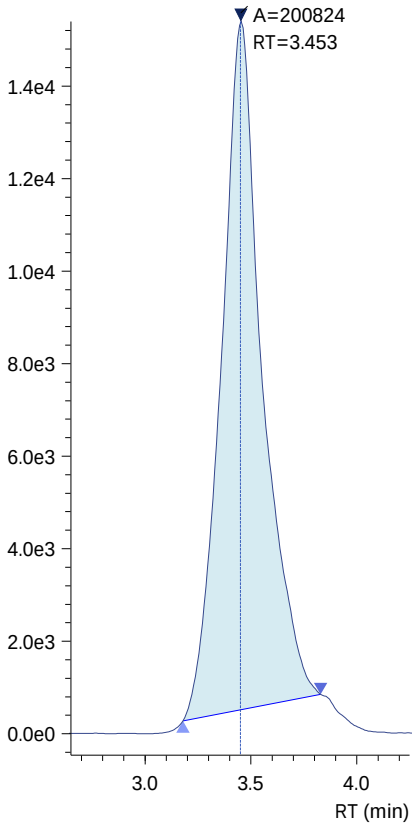
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

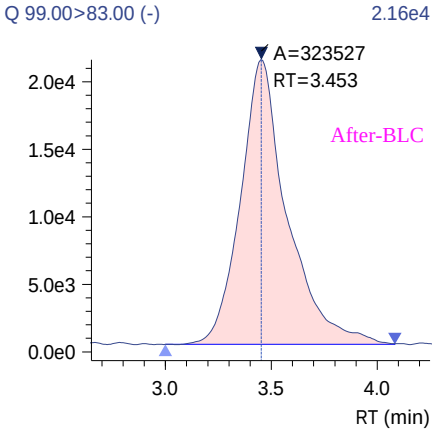
CCV

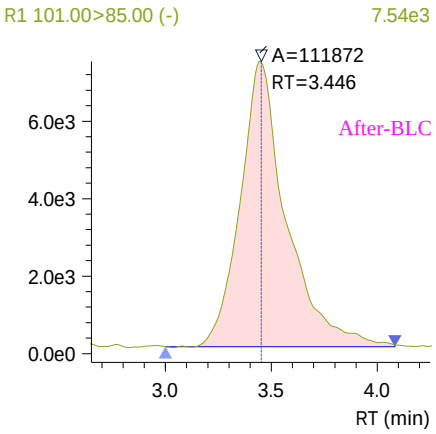
Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	323527	223642	9.9081	ng/mL	101.00 >85.00	34.58	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.449	223642	223642	1.0000	ng/mL	----	----	

Perchlorate

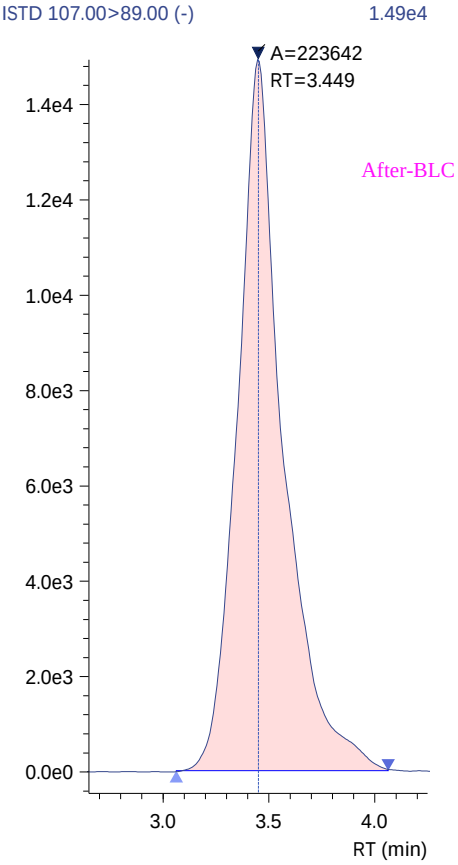
Conc 9.9081
R#1 34.58 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

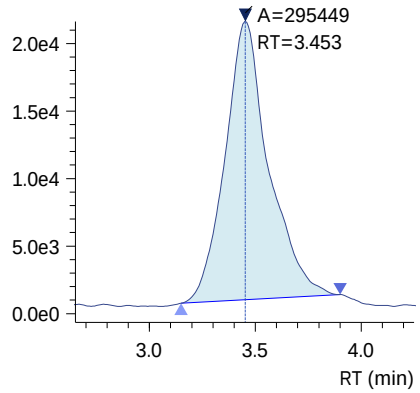
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

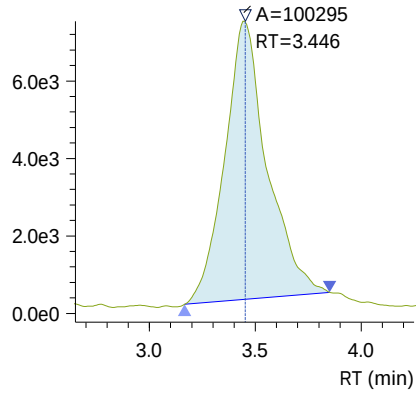
Perchlorate

Conc 10.2540
R#1 33.95 (35.24)

Q 99.00>83.00 (-) 2.16e4



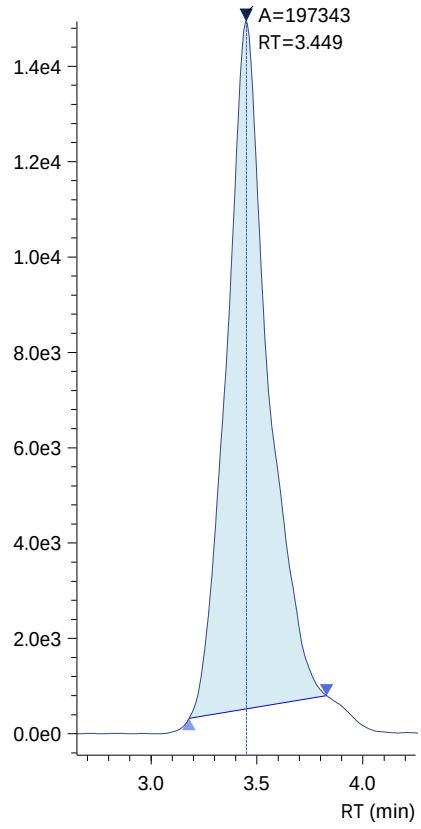
R1 101.00>85.00 (-) 7.54e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

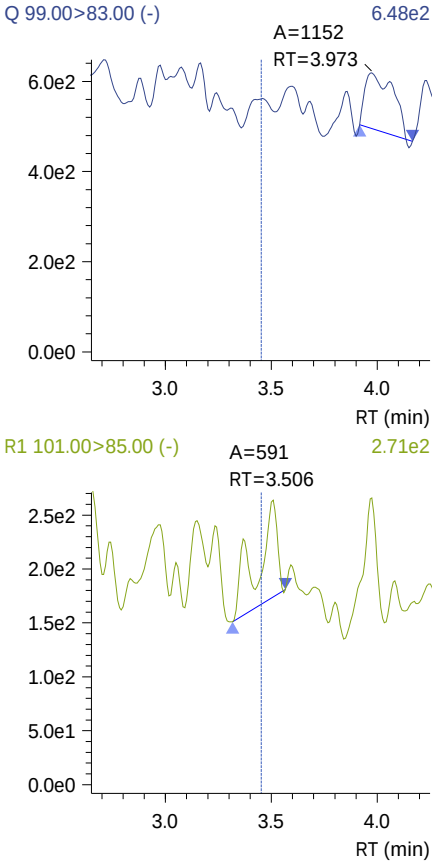
IB

Sample ID: IB
Date Acquired: 6/24/2024 11:21:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-018.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)	----	----	201405	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	Auto	3.447	201405	201405	1.0000	ng/mL	----	----	

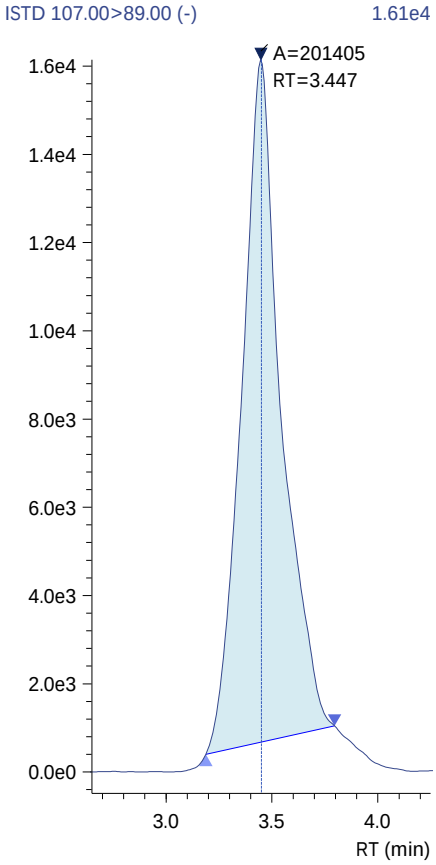
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

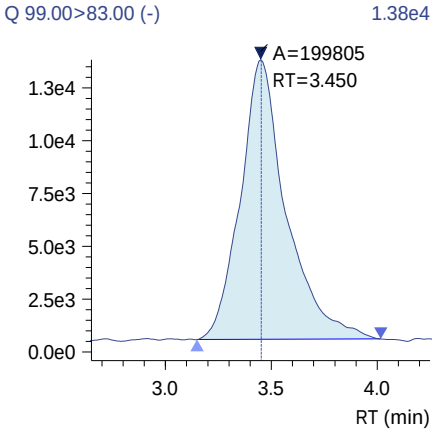
E2400691-003X100

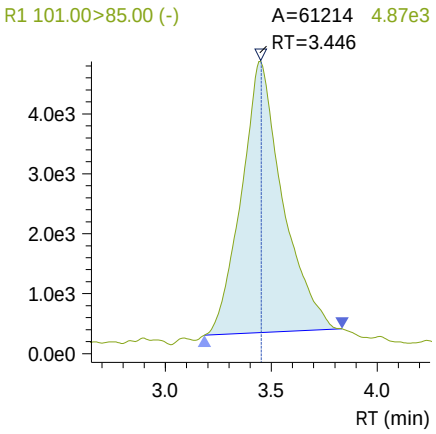
Sample ID: E2400691-003
Date Acquired: 6/24/2024 11:04:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	199805	236527	5.7857	ng/mL	101.00 >85.00	30.64	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.446	236527	236527	1.0000	ng/mL	----	----	

Perchlorate

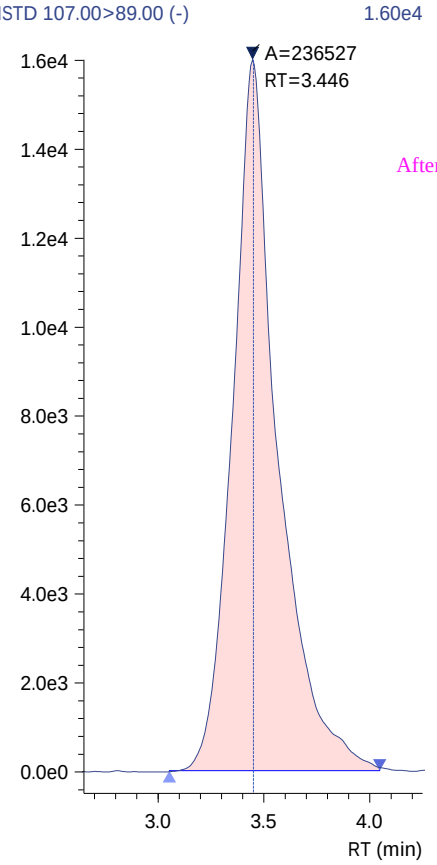
Conc 5.7857
R#1 30.64 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

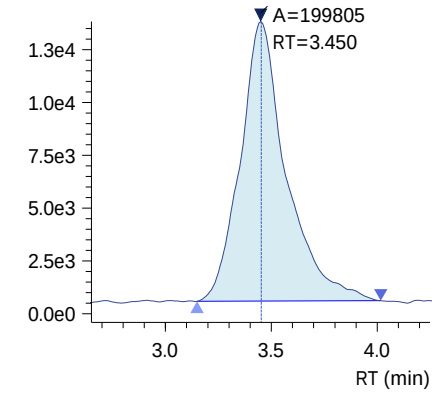
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Acquired by: System Administrator
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Vial: 8 | Inj. Volume: 10.0000uL | Tray: 5

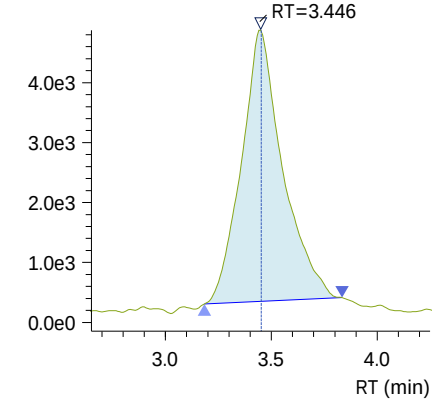
Perchlorate

Conc 6.5634
R#1 30.64 (35.24)

Q 99.00>83.00 (-) 1.38e4



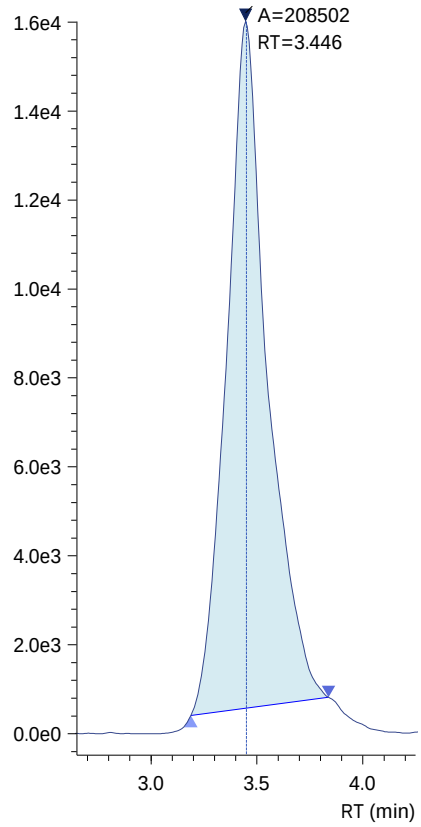
R1 101.00>85.00 (-) A=61214 4.87e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.60e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400691-004X10

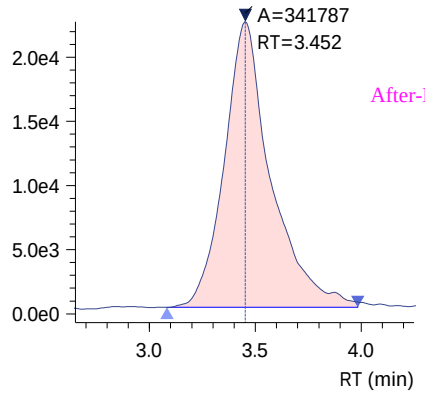
Sample ID: E2400691-004
Date Acquired: 6/24/2024 11:10:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	341787	238093	9.8320	ng/mL	101.00 >85.00	34.69	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.447	238093	238093	1.0000	ng/mL	----	----	

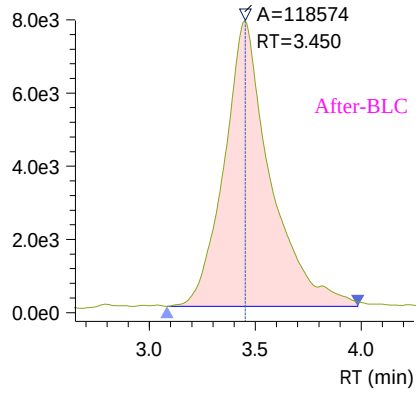
Perchlorate

Conc 9.8320
R#1 34.69 (35.24)

Q 99.00>83.00 (-) 2.28e4



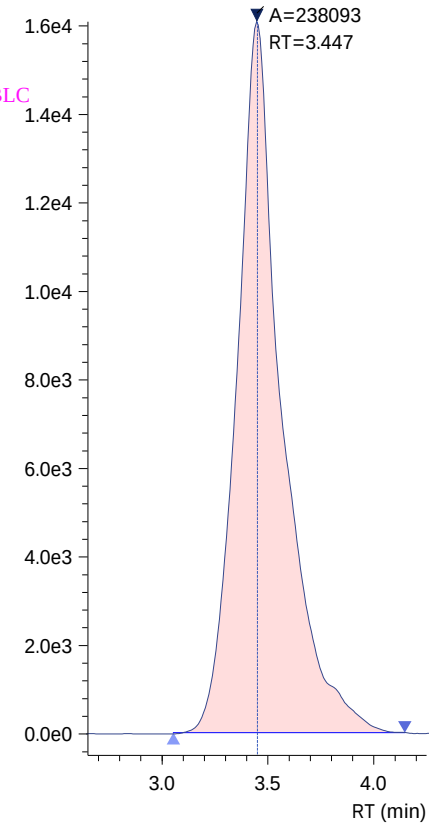
R1 101.00>85.00 (-) 7.98e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

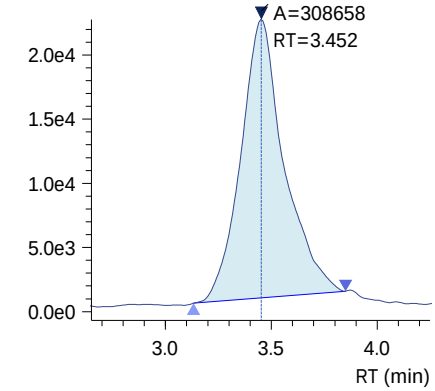
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 5

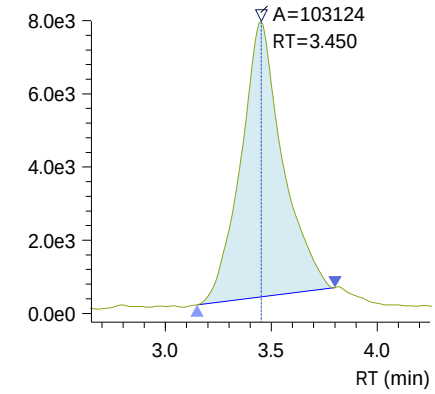
Perchlorate

Conc 10.2269
R#1 33.41 (35.24)

Q 99.00>83.00 (-) 2.28e4



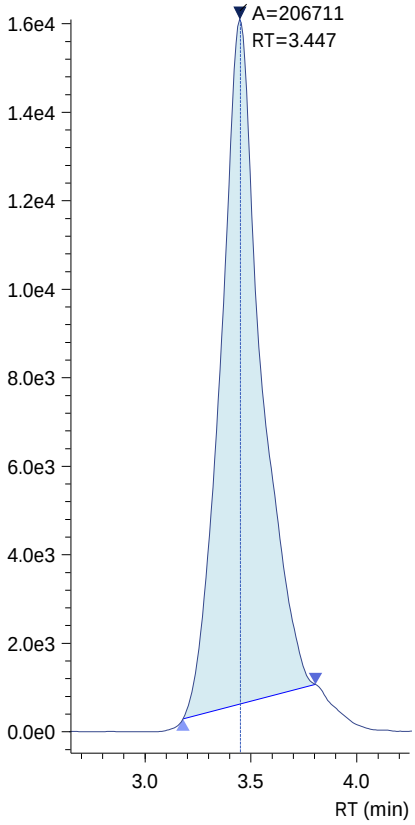
R1 101.00>85.00 (-) 7.98e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



HS24060985 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24060985

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HS24060985 ALS MIddletown PA SUB Data_3366028_334020
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Form 2 - Surrogates
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
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Raw Data SV_6_470987 240701
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Form 5A - HG04_470770 MS
Form 5A - ICPMS07_470725 MS
Form 5B - ICPMS07_470725 PDS
Form 5B - ICPMS07_470915 PDS
Form 7 - HG04_470770 LCS

10450 Stancliff Rd. Suite 210
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F: +1 281 530 5887
alsglobal.com

WorkOrder: HS24060985

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24060985 LHAAP 18 24 Final REV01

ALS WO# HS24060985

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August 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060985**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 11 sample(s) on Jun 15, 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: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24060985

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060985-01	18CPTMW10DW_061424	Groundwater		14-Jun-2024 07:35	15-Jun-2024 09:00	☐
HS24060985-02	18CPTMW10DW_061424_a	Groundwater		14-Jun-2024 07:35	15-Jun-2024 09:00	☐
HS24060985-03	18CPTMW10SW_061424	Groundwater		14-Jun-2024 06:50	15-Jun-2024 09:00	☐
HS24060985-04	MW9_061424	Groundwater		14-Jun-2024 08:20	15-Jun-2024 09:00	☐
HS24060985-05	MW10_-061424	Groundwater		14-Jun-2024 09:00	15-Jun-2024 09:00	☐
HS24060985-06	18WW10_061424	Groundwater		14-Jun-2024 09:45	15-Jun-2024 09:00	☐
HS24060985-07	MW17_061424	Groundwater		14-Jun-2024 10:30	15-Jun-2024 09:00	☐
HS24060985-08	MW16_061424	Groundwater		14-Jun-2024 11:15	15-Jun-2024 09:00	☐
HS24060985-09	17WW08_061424	Groundwater		14-Jun-2024 12:00	15-Jun-2024 09:00	☐
HS24060985-10	17WW08_061424_a	Groundwater		14-Jun-2024 12:00	15-Jun-2024 09:00	☐
HS24060985-11	Trip Blank	Water		14-Jun-2024 00:00	15-Jun-2024 09:00	☐

Revision:1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060985

Work Order Comments

• This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

• The analysis for VOCs was subcontracted to ALS Environmental in Middletown PA, MI. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213834

Sample ID: LCSD-213834

• The RPD between the LCS and LCSD was outside of the control limit.

Metals by Method SW7470A

Batch ID: 214230

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 214140

Sample ID: HS24061196-10MS

• MS and MSD are for an unrelated sample

Sample ID: HS24061196-10PDS

• PDS is for an unrelated sample

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW10DW_061424
Collection Date: 14-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0429**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:09
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:09
Arsenic	**0.000748**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Barium	**0.376**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:09
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:09
Calcium	**64.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:09
Chromium	**0.00480**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Cobalt	**0.000276**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	28-Jun-2024 20:09
Iron	**5.73**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:09
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:09
Magnesium	**12.9**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:09
Manganese	**0.290**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Nickel	**0.00223**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
Potassium	**54.4**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:09
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:09
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:09
Sodium	**153**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:09
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:09
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:09
Zinc	**0.00804**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:09
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Jun-2024 12:39
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW10DW_061424_a
Collection Date: 14-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0495**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:12
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:12
Arsenic	**0.000764**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Barium	**0.374**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:12
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:12
Calcium	**63.3**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:12
Chromium	**0.00460**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Cobalt	**0.000282**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	28-Jun-2024 20:12
Iron	**5.75**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:12
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:12
Magnesium	**12.7**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:12
Manganese	**0.286**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Nickel	**0.00131**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
Potassium	**53.3**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:12
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:12
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:12
Sodium	**149**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:12
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:12
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:12
Zinc	**0.00876**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:12
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Jun-2024 12:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW10SW_061424
Collection Date: 14-Jun-2024 06:50

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	29-Jun-2024 15:50
Surr: 2-Fluorobiphenyl	*63.8*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 15:50*
Surr: 4-Terphenyl-d14	*56.3*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 15:50*
Surr: Nitrobenzene-d5	*69.0*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 15:50*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW9_061424
Collection Date: 14-Jun-2024 08:20

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.19**		**0.010**	**0.020**	**0.030**	**ug/L**	1	29-Jun-2024 16:08
Surr: 2-Fluorobiphenyl	*63.5*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:08*
Surr: 4-Terphenyl-d14	*83.0*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:08*
Surr: Nitrobenzene-d5	*77.3*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:08*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0194**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:14
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:14
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:14
Barium	**0.0993**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:14
Cadmium	**0.000254**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Jun-2024 20:14
Calcium	**11.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:14
Chromium	**0.0384**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Cobalt	**0.00763**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Copper	**0.00225**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Iron	**0.979**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:14
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:14
Magnesium	**2.95**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:14
Manganese	**0.243**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Nickel	**0.137**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
Potassium	**0.349**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:14
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:14
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:14
Sodium	**14.1**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:14
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:14
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:14
Zinc	**0.0195**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:14
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 28-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Jun-2024 12:51
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW10_-061424
Collection Date: 14-Jun-2024 09:00

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.011**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	29-Jun-2024 16:25
Surr: 2-Fluorobiphenyl	*106*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:25*
Surr: 4-Terphenyl-d14	*68.0*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:25*
Surr: Nitrobenzene-d5	*106*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:25*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW10_061424
Collection Date: 14-Jun-2024 09:45

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.013**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	29-Jun-2024 16:42
Surr: 2-Fluorobiphenyl	*72.8*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:42*
Surr: 4-Terphenyl-d14	*55.0*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:42*
Surr: Nitrobenzene-d5	*80.7*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 16:42*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW17_061424
Collection Date: 14-Jun-2024 10:30

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.018**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	29-Jun-2024 17:00
Surr: 2-Fluorobiphenyl	*92.3*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 17:00*
Surr: 4-Terphenyl-d14	*73.3*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 17:00*
Surr: Nitrobenzene-d5	*103*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2024 17:00*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW16_061424
Collection Date: 14-Jun-2024 11:15

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 20-Jun-2024		Analyst: MBG
1,4-Dioxane	**2.1**		**0.10**	**0.20**	**0.30**	**ug/L**	10	01-Jul-2024 17:35
Surr: 2-Fluorobiphenyl	*97.1*			**0**	*40-140*	*%REC*	*10*	*01-Jul-2024 17:35*
Surr: 4-Terphenyl-d14	*106*			**0**	*40-140*	*%REC*	*10*	*01-Jul-2024 17:35*
Surr: Nitrobenzene-d5	*80.7*			**0**	*40-140*	*%REC*	*10*	*01-Jul-2024 17:35*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 17WW08_061424
Collection Date: 14-Jun-2024 12:00

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0163**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:17
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:17
Arsenic	**0.00664**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Barium	**0.360**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:17
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:17
Calcium	**82.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:17
Chromium	**0.596**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Cobalt	**0.0199**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Copper	**0.0221**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Iron	**29.9**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:17
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:17
Magnesium	**50.5**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:17
Manganese	**1.34**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Nickel	**0.826**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Potassium	**1.87**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:17
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:17
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:17
Sodium	**465**		**0.280**	**1.00**	**4.00**	**mg/L**	20	01-Jul-2024 11:39
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:17
Vanadium	**0.000889**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
Zinc	**0.0100**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:17
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Jun-2024 12:53
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 17WW08_061424_a
Collection Date: 14-Jun-2024 12:00

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0179**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:19
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:19
Arsenic	**0.00690**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Barium	**0.379**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:19
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:19
Calcium	**86.5**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:19
Chromium	**0.640**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Cobalt	**0.0207**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Copper	**0.0229**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Iron	**31.8**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:19
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:19
Magnesium	**52.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:19
Manganese	**1.41**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Nickel	**0.865**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Potassium	**1.95**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:19
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:19
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:19
Sodium	**489**		**0.280**	**1.00**	**4.00**	**mg/L**	20	01-Jul-2024 11:41
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:19
Vanadium	**0.000978**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
Zinc	**0.00963**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:19
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Jun-2024 12:55
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 14-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060985
Lab ID:HS24060985-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Batch ID: 213834 **Start Date:** 20 Jun 2024 12:12 **End Date:** 20 Jun 2024 12:12
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060985-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060985-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060985-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060985-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060985-07	1	1000 (mL)	1 (mL)	0.001	1-L plastic, Neat
HS24060985-08	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 214140 **Start Date:** 26 Jun 2024 13:00 **End Date:** 26 Jun 2024 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060985-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-10		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214230 **Start Date:** 28 Jun 2024 07:30 **End Date:** 28 Jun 2024 07:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060985-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060985-10		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213834 (1)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS24060985-03	18CPTMW10SW_061424	14 Jun 2024 06:50		20 Jun 2024 12:12	29 Jun 2024 15:50	1
HS24060985-04	MW9_061424	14 Jun 2024 08:20		20 Jun 2024 12:12	29 Jun 2024 16:08	1
HS24060985-05	MW10_-061424	14 Jun 2024 09:00		20 Jun 2024 12:12	29 Jun 2024 16:25	1
HS24060985-06	18WW10_061424	14 Jun 2024 09:45		20 Jun 2024 12:12	29 Jun 2024 16:42	1
HS24060985-07	MW17_061424	14 Jun 2024 10:30		20 Jun 2024 12:12	29 Jun 2024 17:00	1
HS24060985-08	MW16_061424	14 Jun 2024 11:15		20 Jun 2024 12:12	01 Jul 2024 17:35	10
Batch ID: 214140 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS24060985-01	18CPTMW10DW_061424	14 Jun 2024 07:35		26 Jun 2024 13:00	28 Jun 2024 20:09	1
HS24060985-02	18CPTMW10DW_061424_a	14 Jun 2024 07:35		26 Jun 2024 13:00	28 Jun 2024 20:12	1
HS24060985-04	MW9_061424	14 Jun 2024 08:20		26 Jun 2024 13:00	28 Jun 2024 20:14	1
HS24060985-09	17WW08_061424	14 Jun 2024 12:00		26 Jun 2024 13:00	28 Jun 2024 20:17	1
HS24060985-09	17WW08_061424	14 Jun 2024 12:00		26 Jun 2024 13:00	01 Jul 2024 11:39	20
HS24060985-10	17WW08_061424_a	14 Jun 2024 12:00		26 Jun 2024 13:00	28 Jun 2024 20:19	1
HS24060985-10	17WW08_061424_a	14 Jun 2024 12:00		26 Jun 2024 13:00	01 Jul 2024 11:41	20
Batch ID: 214230 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS24060985-01	18CPTMW10DW_061424	14 Jun 2024 07:35		28 Jun 2024 07:30	28 Jun 2024 12:39	1
HS24060985-02	18CPTMW10DW_061424_a	14 Jun 2024 07:35		28 Jun 2024 07:30	28 Jun 2024 12:50	1
HS24060985-04	MW9_061424	14 Jun 2024 08:20		28 Jun 2024 07:30	28 Jun 2024 12:51	1
HS24060985-09	17WW08_061424	14 Jun 2024 12:00		28 Jun 2024 07:30	28 Jun 2024 12:53	1
HS24060985-10	17WW08_061424_a	14 Jun 2024 12:00		28 Jun 2024 07:30	28 Jun 2024 12:55	1
Batch ID: R470524 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS24060985-01	18CPTMW10DW_061424	14 Jun 2024 07:35			26 Jun 2024 15:58	1
HS24060985-02	18CPTMW10DW_061424_a	14 Jun 2024 07:35			26 Jun 2024 15:58	1
HS24060985-03	18CPTMW10SW_061424	14 Jun 2024 06:50			26 Jun 2024 15:58	1
HS24060985-04	MW9_061424	14 Jun 2024 08:20			26 Jun 2024 15:58	1
HS24060985-05	MW10_-061424	14 Jun 2024 09:00			26 Jun 2024 15:58	1
HS24060985-06	18WW10_061424	14 Jun 2024 09:45			26 Jun 2024 15:58	1
HS24060985-07	MW17_061424	14 Jun 2024 10:30			26 Jun 2024 15:58	1
HS24060985-08	MW16_061424	14 Jun 2024 11:15			26 Jun 2024 15:58	1
HS24060985-09	17WW08_061424	14 Jun 2024 12:00			26 Jun 2024 15:58	1
HS24060985-10	17WW08_061424_a	14 Jun 2024 12:00			26 Jun 2024 15:58	1
Batch ID: R470880 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24060985-11	Trip Blank	14 Jun 2024 00:00			30 Jun 2024 19:11	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470880 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Groundwater	
HS24060985-01	18CPTMW10DW_061424	14 Jun 2024 07:35			30 Jun 2024 19:11	1
HS24060985-02	18CPTMW10DW_061424_a	14 Jun 2024 07:35			30 Jun 2024 19:11	1
HS24060985-03	18CPTMW10SW_061424	14 Jun 2024 06:50			30 Jun 2024 19:11	1
HS24060985-04	MW9_061424	14 Jun 2024 08:20			30 Jun 2024 19:11	1
HS24060985-05	MW10_-061424	14 Jun 2024 09:00			30 Jun 2024 19:11	1
HS24060985-06	18WW10_061424	14 Jun 2024 09:45			30 Jun 2024 19:11	1
HS24060985-08	MW16_061424	14 Jun 2024 11:15			30 Jun 2024 19:11	1
HS24060985-09	17WW08_061424	14 Jun 2024 12:00			30 Jun 2024 19:11	1
HS24060985-10	17WW08_061424_a	14 Jun 2024 12:00			30 Jun 2024 19:11	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:45**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108622** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00200	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:47**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108623** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1056	0.0100	0.1	0	106	84 - 117				
Antimony	0.0496	0.00500	0.05	0	99.2	85 - 117				
Arsenic	0.04777	0.00500	0.05	0	95.5	84 - 116				
Barium	0.04654	0.00500	0.05	0	93.1	86 - 114				
Beryllium	0.04656	0.00200	0.05	0	93.1	83 - 121				
Cadmium	0.04692	0.00200	0.05	0	93.8	87 - 115				
Calcium	4.991	0.500	5	0	99.8	87 - 118				
Chromium	0.04745	0.00500	0.05	0	94.9	85 - 116				
Cobalt	0.04758	0.00500	0.05	0	95.2	86 - 115				
Copper	0.0479	0.00500	0.05	0	95.8	85 - 118				
Iron	4.866	0.200	5	0	97.3	87 - 118				
Lead	0.04589	0.00500	0.05	0	91.8	88 - 115				
Magnesium	4.93	0.200	5	0	98.6	83 - 118				
Manganese	0.04827	0.00500	0.05	0	96.5	87 - 115				
Nickel	0.04813	0.00500	0.05	0	96.3	85 - 117				
Potassium	4.876	0.200	5	0	97.5	87 - 115				
Selenium	0.0482	0.00500	0.05	0	96.4	80 - 120				
Silver	0.04791	0.00500	0.05	0	95.8	85 - 116				
Sodium	4.861	0.200	5	0	97.2	85 - 117				
Thallium	0.04203	0.00200	0.05	0	84.1	82 - 116				
Vanadium	0.04702	0.00500	0.05	0	94.0	86 - 115				
Zinc	0.04791	0.00500	0.05	0	95.8	83 - 119				

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24061196-10MS** Units: **mg/L** Analysis Date: **28-Jun-2024 19:55**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108626** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1047	0.0100	0.1	0.01321	91.5	84 - 117				
Antimony	0.04675	0.00500	0.05	0.000125	93.2	85 - 117				
Arsenic	0.04648	0.00500	0.05	0.000633	91.7	84 - 116				
Barium	0.6684	0.00500	0.05	0.6415	53.8	86 - 114				SO
Beryllium	0.04185	0.00200	0.05	0.000025	83.6	83 - 121				
Cadmium	0.04557	0.00200	0.05	0.000134	90.9	87 - 115				
Calcium	27.42	0.500	5	23.67	75.0	87 - 118				SO
Chromium	0.04454	0.00500	0.05	0.00071	87.7	85 - 116				
Cobalt	0.04518	0.00500	0.05	0.001239	87.9	86 - 115				
Copper	0.04654	0.00500	0.05	0.000738	91.6	85 - 118				
Iron	34.79	0.200	5	31.81	59.5	87 - 118				SO
Lead	0.04493	0.00500	0.05	0.000162	89.5	88 - 115				
Magnesium	12.18	0.200	5	8.035	82.9	83 - 118				S
Manganese	0.527	0.00500	0.05	0.5086	36.8	87 - 115				SO
Nickel	0.04609	0.00500	0.05	0.002044	88.1	85 - 117				
Potassium	7.074	0.200	5	2.622	89.0	87 - 115				
Selenium	0.04554	0.00500	0.05	0.000235	90.6	80 - 120				
Silver	0.04496	0.00500	0.05	0.000019	89.9	85 - 116				
Sodium	136.2	0.200	5	138.3	-42.3	85 - 117				SO
Thallium	0.04021	0.00200	0.05	0.000044	80.3	82 - 116				S
Vanadium	0.0445	0.00500	0.05	-0.000436	89.9	86 - 115				
Zinc	0.05782	0.00500	0.05	0.01508	85.5	83 - 119				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24061196-10MSD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:57**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108627** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Aluminum	0.1096	0.0100	0.1	0.01321	96.4	84 - 117	0.1047	4.58	20	
Antimony	0.04833	0.00500	0.05	0.000125	96.4	85 - 117	0.04675	3.33	20	
Arsenic	0.04732	0.00500	0.05	0.000633	93.4	84 - 116	0.04648	1.8	20	
Barium	0.6672	0.00500	0.05	0.6415	51.4	86 - 114	0.6684	0.179	20	SO
Beryllium	0.04283	0.00200	0.05	0.000025	85.6	83 - 121	0.04185	2.33	20	
Cadmium	0.04597	0.00200	0.05	0.000134	91.7	87 - 115	0.04557	0.87	20	
Calcium	28.26	0.500	5	23.67	91.9	87 - 118	27.42	3.02	20	O
Chromium	0.04651	0.00500	0.05	0.00071	91.6	85 - 116	0.04454	4.33	20	
Cobalt	0.047	0.00500	0.05	0.001239	91.5	86 - 115	0.04518	3.96	20	
Copper	0.04868	0.00500	0.05	0.000738	95.9	85 - 118	0.04654	4.51	20	
Iron	35.89	0.200	5	31.81	81.6	87 - 118	34.79	3.13	20	SO
Lead	0.0449	0.00500	0.05	0.000162	89.5	88 - 115	0.04493	0.0534	20	
Magnesium	12.66	0.200	5	8.035	92.5	83 - 118	12.18	3.86	20	
Manganese	0.5434	0.00500	0.05	0.5086	69.6	87 - 115	0.527	3.07	20	SO
Nickel	0.04818	0.00500	0.05	0.002044	92.3	85 - 117	0.04609	4.44	20	
Potassium	7.325	0.200	5	2.622	94.1	87 - 115	7.074	3.5	20	
Selenium	0.04714	0.00500	0.05	0.000235	93.8	80 - 120	0.04554	3.45	20	
Silver	0.04493	0.00500	0.05	0.000019	89.8	85 - 116	0.04496	0.0667	20	
Sodium	141.9	0.200	5	138.3	71.2	85 - 117	136.2	4.08	20	SO
Thallium	0.04049	0.00200	0.05	0.000044	80.9	82 - 116	0.04021	0.694	20	S
Vanadium	0.04584	0.00500	0.05	-0.000436	92.6	86 - 115	0.0445	2.98	20	
Zinc	0.05896	0.00500	0.05	0.01508	87.8	83 - 119	0.05782	1.95	20	

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **28-Jun-2024 20:00**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108628** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1029	0.0100	0.1	0.01321	89.7	80 - 120				
Antimony	0.0918	0.00500	0.1	0.000125	91.7	80 - 120				
Arsenic	0.093	0.00500	0.1	0.000633	92.4	80 - 120				
Barium	0.7017	0.00500	0.1	0.6415	60.2	80 - 120				SO
Beryllium	0.08428	0.00200	0.1	0.000025	84.3	80 - 120				
Cadmium	0.09034	0.00200	0.1	0.000134	90.2	80 - 120				
Calcium	31.7	0.500	10	23.67	80.3	80 - 120				
Chromium	0.0899	0.00500	0.1	0.00071	89.2	80 - 120				
Cobalt	0.09192	0.00500	0.1	0.001239	90.7	80 - 120				
Copper	0.08952	0.00500	0.1	0.000738	88.8	80 - 120				
Lead	0.08967	0.00500	0.1	0.000162	89.5	80 - 120				
Magnesium	16.9	0.200	10	8.035	88.6	80 - 120				
Manganese	0.5771	0.00500	0.1	0.5086	68.5	80 - 120				SO
Nickel	0.09226	0.00500	0.1	0.002044	90.2	80 - 120				
Potassium	11.8	0.200	10	2.622	91.8	80 - 120				
Selenium	0.09238	0.00500	0.1	0.000235	92.1	80 - 120				
Silver	0.09255	0.00500	0.1	0.000019	92.5	80 - 120				
Sodium	141.9	0.200	10	138.3	35.4	80 - 120				SO
Thallium	0.09236	0.00200	0.1	0.000044	92.3	80 - 120				
Vanadium	0.09037	0.00500	0.1	-0.000436	90.8	80 - 120				
Zinc	0.1018	0.00500	0.1	0.01508	86.7	80 - 120				

PDS Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **01-Jul-2024 11:36**
Client ID: Run ID: **ICPMS07_470915** SeqNo: **8111150** PrepDate: **26-Jun-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	131.8	2.00	100	32.06	99.8	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:52**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108625** PrepDate: **26-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.01321	0	10	U
Antimony	0.00625	0.0250					0.000125	0	10	U
Arsenic	0.00625	0.0250					0.000633	0	10	U
Barium	0.6208	0.0250					0.6415	3.23	10	
Beryllium	0.00250	0.0100					0.000025	0	10	U
Cadmium	0.00250	0.0100					0.000134	0	10	U
Calcium	23.17	2.50					23.67	2.09	10	
Chromium	0.00625	0.0250					0.00071	0	10	U
Cobalt	0.00133	0.0250					0.001239	0	10	J
Copper	0.0100	0.0250					0.000738	0	10	U
Lead	0.00625	0.0250					0.000162	0	10	U
Magnesium	7.959	1.00					8.035	0.953	10	
Manganese	0.5008	0.0250					0.5086	1.53	10	
Nickel	0.00625	0.0250					0.002044	0	10	U
Potassium	2.513	1.00					2.622	4.14	10	
Selenium	0.00625	0.0250					0.000235	0	10	U
Silver	0.00250	0.0250					0.000019	0	10	U
Sodium	137.7	1.00					138.3	0.452	10	
Thallium	0.00250	0.0100					0.000044	0	10	U
Vanadium	0.00625	0.0250					-0.000436	0	10	U
Zinc	0.01415	0.0250					0.01508	0	10	J

SD Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **01-Jul-2024 11:34**
Client ID: Run ID: **ICPMS07_470915** SeqNo: **8111149** PrepDate: **26-Jun-2024** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	32.05	10.0					32.06	0.0435	10	

The following samples were analyzed in this batch: HS24060985-01 HS24060985-02 HS24060985-04 HS24060985-09 HS24060985-10

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 214230 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214230** Units: **mg/L** Analysis Date: **28-Jun-2024 12:35**
Client ID: Run ID: **HG04_470770** SeqNo: **8106625** PrepDate: **28-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-214230** Units: **mg/L** Analysis Date: **28-Jun-2024 12:37**
Client ID: Run ID: **HG04_470770** SeqNo: **8106626** PrepDate: **28-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.000200	0.005	0	99.6	82 - 119				

MS Sample ID: **HS24060985-01MS** Units: **mg/L** Analysis Date: **28-Jun-2024 12:40**
Client ID: **18CPTMW10DW_061424** Run ID: **HG04_470770** SeqNo: **8106628** PrepDate: **28-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00495	0.000200	0.005	0.00001200	98.8	82 - 119				

MSD Sample ID: **HS24060985-01MSD** Units: **mg/L** Analysis Date: **28-Jun-2024 12:48**
Client ID: **18CPTMW10DW_061424** Run ID: **HG04_470770** SeqNo: **8106631** PrepDate: **28-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00490	0.000200	0.005	0.00001200	97.8	82 - 119	0.004950	1.02	20	

The following samples were analyzed in this batch: HS24060985-01 HS24060985-02 HS24060985-04 HS24060985-09 HS24060985-10

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

QC BATCH REPORT

Batch ID: 213834 (1) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 14:58**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117290** PrepDate: **20-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.06599*	*0*	*0.08*	*0*	*82.5*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09292*	*0*	*0.08*	*0*	*116*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06278*	*0*	*0.08*	*0*	*78.5*	*40 - 140*				

LCS Sample ID: **LCS-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 15:15**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117291** PrepDate: **20-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06136	0.030	0.08	0	76.7	40 - 140				
Surr: 2-Fluorobiphenyl	*0.05815*	*0*	*0.08*	*0*	*72.7*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.04582*	*0*	*0.08*	*0*	*57.3*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06435*	*0*	*0.08*	*0*	*80.4*	*40 - 140*				

LCSD Sample ID: **LCSD-213834** Units: **ug/L** Analysis Date: **29-Jun-2024 15:33**
Client ID: Run ID: **SV-6_470987** SeqNo: **8117292** PrepDate: **20-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06341	0.030	0.08	0	79.3	40 - 140	0	200	20	R
Surr: 2-Fluorobiphenyl	*0.05359*	*0*	*0.08*	*0*	*67.0*	*40 - 140*	*0.06447*	*18.4*	*20*	
Surr: 4-Terphenyl-d14	*0.03425*	*0*	*0.08*	*0*	*42.8*	*40 - 140*	*0.07743*	*77.3*	*20*	R
Surr: Nitrobenzene-d5	*0.06272*	*0*	*0.08*	*0*	*78.4*	*40 - 140*	*0.06476*	*3.2*	*20*	

The following samples were analyzed in this batch: HS24060985-03 HS24060985-04 HS24060985-05 HS24060985-06 HS24060985-07 HS24060985-08

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24060985**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

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ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24060985 **Date/Time Received:** 15-Jun-2024 09:00

Client Name: Bhate Environmental **Received by:** Ruben Estrada-Jr

Completed By: /S/ Paresh M. Giga (eSignature) 17-Jun-2024 11:30 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **GW/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):	2.2C/2.3C U/C	IR31	
Cooler(s)/Kit(s):	51016		
Date/Time sample(s) sent to storage:	6/17/24 12:00		
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:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
18GPTMW10DUP-061424	14-Jun-2024	0735	-	N		wb	5	X	X	X					
18GPTMW10DUP-061424-a	14-Jun-2024	0735	-	FD		wb	5	X	X	X					
18GPTMW10SW-061424	14-Jun-2024	0650	-	N		wb	5	X	X		X				
MW9-061424	14-Jun-2024	0820	-	N		wb	6	X	X	X	X				
MW10-061424	14-Jun-2024	0900	-	N		wb	5	X	X		X				
18WW10-061424	14-Jun-2024	0905	-	N		wb	5	X	X		X				
MW17-061424	14-Jun-2024	1030	-	N		wb	2		X		X				
MW16-061424	14-Jun-2024	1115	-	N		wb	5	X	X		X				
17WW08-061424	14-Jun-2024	1200	-	N		wb	5	X	X	X					
17WW08-061424-a	14-Jun-2024	1200	-	FD		wb	5	X	X	X					
TRIP BLANK	14-Jun-2024		-	TB		w	2	X							

Sample Analysis Requested (5)

Quality Assurance Samples (6)

HS24060985
Bhate Environmental Associates, Inc.
LHAAP 18 24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

	Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	6/14/24	1400	[signature]	6/15/24	0900
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

____ Fed ____ Ex ____ Airbill Number:

Analytical Lab: ALS 10450 Stanciff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wasasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

IR31 +0.1 2.2c
Cooler# 51016

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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5858
Fax. +1 281 530 5887

51016

CUSTODY SEAL
Date: 6/14/23 Time: 1430
Name: Scott Beesinger
Company: BHATE

51016

JUN 15 2023

ORIGIN ID:SGRA (903) 930-8193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 08JUN23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3701
DIMS: 26x14x14 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5858

REF: LHAAP - 18 24 (1 OF 2) = BO 93545-JG
RMA:

FedEx Express

FedEx
TRK# 0721 6230 3000 9590

SATURDAY 12:00P
PRIORITY OVERNIGHT

77099
TX-US
IAH

XO SGRA

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June 26, 2024 Service Request No:E2400696

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060985

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 15, 2024
For your reference, these analyses have been assigned our service request number **E2400696.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

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Client:	ALS Environmental - US	**Service Request No.:**	E2400696
Project:	HS24060985	**Date Received:**	06/15/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 06/15/24.

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:

EQ2400343: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

Samples E2400696-009, 010, ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run.

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:**E2400696
Project: HS24060985

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400696-001	18CPTMW10DW-061424	6/14/2024	0735
E2400696-002	18CPTMW10DW-061424-a	6/14/2024	0735
E2400696-003	18CPTMW10SW-061424	6/14/2024	0650
E2400696-004	MW9-061424	6/14/2024	0820
E2400696-005	MW10-061424	6/14/2024	0900
E2400696-006	18WW10-061424	6/14/2024	0945
E2400696-007	MW17-061424	6/14/2024	1030
E2400696-008	MW16-061424	6/14/2024	1115
E2400696-009	17WW08-061424	6/14/2024	1200
E2400696-010	17WW08-061424-a	6/14/2024	1200

Service Request Summary

Folder #: **E2400696**
Client Name: ALS Environmental - US
Project Name: HS24060985
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/15/24
Internal Due Date: 6/27/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400696-001	18CPTMW10DW-061424	Ground Water	06/14/24 0735	**IV**
E2400696-002	18CPTMW10DW-061424-a	Ground Water	06/14/24 0735	**IV**
E2400696-003	18CPTMW10SW-061424	Ground Water	06/14/24 0650	**IV**
E2400696-004	MW9-061424	Ground Water	06/14/24 0820	**IV**
E2400696-005	MW10-061424	Ground Water	06/14/24 0900	**IV**
E2400696-006	18WW10-061424	Ground Water	06/14/24 0945	**IV**
E2400696-007	MW17-061424	Ground Water	06/14/24 1030	**IV**
E2400696-008	MW16-061424	Ground Water	06/14/24 1115	**IV**
E2400696-009	17WW08-061424	Ground Water	06/14/24 1200	**IV**
E2400696-010	17WW08-061424-a	Ground Water	06/14/24 1200	**IV**

Service Request Summary

Folder #: **E2400696**
Client Name: ALS Environmental - US
Project Name: HS24060985
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
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Date Received: 06/15/24
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QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
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

E24060696

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Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26021**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060985
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060985-01**	**18CPTMW10DW-061424**	**Groundwater**	**14 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
2.	**HS24060985-02**	**18CPTMW10DW-061424-a**	**Groundwater**	**14 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
3.	**HS24060985-03**	**18CPTMW10SW-061424**	**Groundwater**	**14 Jun 2024 06:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
4.	**HS24060985-04**	**MW9-061424**	**Groundwater**	**14 Jun 2024 08:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
5.	**HS24060985-05**	**MW10-061424**	**Groundwater**	**14 Jun 2024 09:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
6.	**HS24060985-06**	**18WW10-061424**	**Groundwater**	**14 Jun 2024 09:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
7.	**HS24060985-07**	**MW17-061424**	**Groundwater**	**14 Jun 2024 10:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
8.	**HS24060985-08**	**MW16-061424**	**Groundwater**	**14 Jun 2024 11:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26021**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
9.	**HS24060985-09**	**17WW08-061424**	**Groundwater**	**14 Jun 2024 12:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
10.	**HS24060985-10**	**17WW08-061424-a**	**Groundwater**	**14 Jun 2024 12:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 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: 6-17-24 1810

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E24006964

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: HS24060985 **Date/Time received:** 15 Jun 2024 09:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Ruben Estrada-Jr

Completed/By: 17 Jun 2024 11:30 (Date/Time) Paresh M. Giga (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: GW/Water **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s): none	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.2C/2.3C U/C IR31

Cooler Information: 1 Cooler(s), 51016

Date/Time sample(s) sent to storage: 6/17/24 12:00

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#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400696-001	18CPTMW10DW-061424	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2400696-002	18CPTMW10DW-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400696-003	18CPTMW10SW-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400696-004	MW9-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
5	E2400696-005	MW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
6	E2400696-006	18WW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
7	E2400696-007	MW17-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2400696-008	MW16-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
9	E2400696-009	17WW08-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
10	E2400696-010	17WW08-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
11	E2400710-001	2406130941A BLM-27-270	.01	6850/ClO4			Water	10mL	
12	E2400715-001	1824DOTTMW02_061724	.01	6850/ClO4 DOD			Water	10mL	
13	E2400715-002	18WW18_061724	.01	6850/ClO4 DOD			Water	10mL	
14	E2400715-003	CO3_061724	.01	6850/ClO4 DOD			Water	10mL	
15	E2400715-004	1824DOTTMW01_061724	.01	6850/ClO4 DOD			Water	10mL	
16	E2400715-005	18CPTMW18_061724	.01	6850/ClO4 DOD			Water	10mL	
17	E2400715-006	1824DOTTMW03_061724	.01	6850/ClO4 DOD			Water	10mL	
18	E2400715-007	MW19_061724	.01	6850/ClO4 DOD			Water	10mL	
19	E2400715-008	MW18_061724	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400343-02	LCS		6850/ClO4			Liquid	10mL	
21	EQ2400343-03	DLCS		6850/ClO4			Liquid	10mL	
22	EQ2400343-04	MB		6850/ClO4			Liquid	10mL	
23	EQ2400343-05	ICS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400343-02 10.00µL EQ2400343-02 10.00µL EQ2400343-03 10.00µL EQ2400343-03 10.00µL EQ2400343-05 10.00µL EQ2400343-05 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400343-05 20.00µL EQ2400343-05 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400696-001 100.00µL E2400696-002 100.00µL E2400696-003 100.00µL E2400696-004 100.00µL E2400696-005 100.00µL E2400696-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

E2400696-007	100.00µL	E2400696-008	100.00µL	E2400696-009	100.00µL	E2400696-010	100.00µL	E2400710-001	100.00µL	E2400715-001	100.00µL
E2400715-002	100.00µL	E2400715-003	100.00µL	E2400715-004	100.00µL	E2400715-005	100.00µL	E2400715-006	100.00µL	E2400715-007	100.00µL
E2400715-008	100.00µL	EQ2400343-02	100.00µL	EQ2400343-02	100.00µL	EQ2400343-03	100.00µL	EQ2400343-03	100.00µL	EQ2400343-04	100.00µL
EQ2400343-04	100.00µL	EQ2400343-05	100.00µL	EQ2400343-05	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: 6/24/24 10:15
Finished: 6/24/24 11:30
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10DW-061424	**Units:**	µg/L
Lab Code:	E2400696-001	**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	**1070**		10.0	5.00	2.50	100	6/24/24	6/25/24 13:55	440489	845503	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10DW-061424-a	**Units:**	µg/L
Lab Code:	E2400696-002	**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	**1100**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:00	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0650
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10SW-061424	**Units:**	µg/L
Lab Code:	E2400696-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 14:58	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0820
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW9-061424	**Units:**	µg/L
Lab Code:	E2400696-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**642**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:06	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0900
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW10-061424	**Units:**	µg/L
Lab Code:	E2400696-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:09	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0945
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18WW10-061424	**Units:**	µg/L
Lab Code:	E2400696-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:14	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1030
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW17-061424	**Units:**	µg/L
Lab Code:	E2400696-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:20	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1115
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW16-061424	**Units:**	µg/L
Lab Code:	E2400696-008	**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	**674**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:11	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1200
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	17WW08-061424	**Units:**	µg/L
Lab Code:	E2400696-009	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:17	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1200
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	17WW08-061424-a	**Units:**	µg/L
Lab Code:	E2400696-010	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:22	440489	845503	

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400343-04	**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	6/24/24	6/24/24 13:40	440489	845501	

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

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Analyzed:**	06/24/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/24/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845501

	Lab Control Sample EQ2400343-02			Duplicate Lab Control Sample EQ2400343-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.110	0.100	110	0.114	0.100	114	84-119	4	15

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.110**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:46	440489	845501	

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-03	**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	**0.114**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:57	440489	845501	

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24060985
Workorder 3366028
Report ID 334020 on 6/30/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project HS24060985
Workorder 3366028

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366028001	HS24060985-01	Ground Water	06/14/2024 07:35	06/26/2024 09:36	CBC	Collected By Client
3366028002	HS24060985-02	Ground Water	06/14/2024 07:35	06/26/2024 09:36	CBC	Collected By Client
3366028003	HS24060985-03	Ground Water	06/14/2024 06:50	06/26/2024 09:36	CBC	Collected By Client
3366028004	HS24060985-04	Ground Water	06/14/2024 08:20	06/26/2024 09:36	CBC	Collected By Client
3366028005	HS24060985-05	Ground Water	06/14/2024 09:00	06/26/2024 09:36	CBC	Collected By Client
3366028006	HS24060985-06	Ground Water	06/14/2024 09:45	06/26/2024 09:36	CBC	Collected By Client
3366028007	HS24060985-08	Ground Water	06/14/2024 11:15	06/26/2024 09:36	CBC	Collected By Client
3366028008	HS24060985-09	Ground Water	06/14/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366028009	HS24060985-10	Ground Water	06/14/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366028010	HS24060985-11	Ground Water	06/14/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Project HS24060985
Workorder 3366028

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project HS24060985
Workorder 3366028

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	19.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	18.8	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.43J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	4.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.35J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	63.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.57J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1470	ug/L	10.0	7.5	3.3	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.34J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	4.5	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	2.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	12.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,2-Dichloroethane	78.0	ug/L	1.0	0.75	0.33	SW846 8260D	#
Acetone	3.2J	ug/L	5.0	3.8	1.6	SW846 8260D	#
Benzene	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	0.50J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	51.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.88J	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.99J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	668	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	2.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	1.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichlorofluoromethane	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloromethane	0.44J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
cis-1,2-Dichloroethene	1.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:30	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:30	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Trichloroethene	19.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 14:30	
4-Bromofluorobenzene	460-00-4	93.1%	85 – 114	06/27/2024 14:30	
Dibromofluoromethane	1868-53-7	99.3%	80 – 119	06/27/2024 14:30	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 14:30	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloromethane	0.44J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
cis-1,2-Dichloroethene	1.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:49	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:49	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Trichloroethene	18.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/27/2024 14:49	
4-Bromofluorobenzene	460-00-4	95.7%	85 – 114	06/27/2024 14:49	
Dibromofluoromethane	1868-53-7	102%	80 – 119	06/27/2024 14:49	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 14:49	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloromethane	0.43J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 15:09	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 15:09	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Trichloroethene	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.4%	81 – 118	06/27/2024 15:09	
4-Bromofluorobenzene	460-00-4	92.4%	85 – 114	06/27/2024 15:09	
Dibromofluoromethane	1868-53-7	97.2%	80 – 119	06/27/2024 15:09	
Toluene-d8	2037-26-5	96.5%	89 – 112	06/27/2024 15:09	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloroethane	1.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloroethene	4.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloroform	1.5		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloromethane	0.35J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
cis-1,2-Dichloroethene	63.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 15:29	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 15:29	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
trans-1,2-Dichloroethene	0.57J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Trichloroethene	1470		ug/L	10.0	7.5	3.3	SW846 8260D	10	06/28/2024 17:32	TMP	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/28/2024 17:32	
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 15:29	
4-Bromofluorobenzene	460-00-4	99.7%	85 – 114	06/28/2024 17:32	
4-Bromofluorobenzene	460-00-4	93.5%	85 – 114	06/27/2024 15:29	
Dibromofluoromethane	1868-53-7	90.7%	80 – 119	06/28/2024 17:32	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/27/2024 15:29	
Toluene-d8	2037-26-5	98.7%	89 – 112	06/28/2024 17:32	
Toluene-d8	2037-26-5	97.5%	89 – 112	06/27/2024 15:29	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
cis-1,2-Dichloroethene	0.34J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 12:26	TMP	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 12:26	TMP	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Trichloroethene	4.5		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	81 – 118	06/28/2024 12:26	
4-Bromofluorobenzene	460-00-4	103%	85 – 114	06/28/2024 12:26	
Dibromofluoromethane	1868-53-7	97.5%	80 – 119	06/28/2024 12:26	
Toluene-d8	2037-26-5	105%	89 – 112	06/28/2024 12:26	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 16:09	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 16:09	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Trichloroethene	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 16:09	
4-Bromofluorobenzene	460-00-4	104%	85 – 114	06/27/2024 16:09	
Dibromofluoromethane	1868-53-7	98.8%	80 – 119	06/27/2024 16:09	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 16:09	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloroethane	2.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloroethene	12.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichloroethane	78.0		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
Acetone	3.2J	J	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
Benzene	0.38J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloroform	0.50J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloromethane	0.38J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
cis-1,2-Dichloroethene	51.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 16:29	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 16:29	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Tetrachloroethene	0.88J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
trans-1,2-Dichloroethene	0.99J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Trichloroethene	668		ug/L	10.0	7.5	3.3	SW846 8260D	10	06/28/2024 17:52	TMP	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Vinyl Chloride	2.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	113%	81 – 118	06/28/2024 17:52	
1,2-Dichloroethane-d4	17060-07-0	112%	81 – 118	06/27/2024 16:29	
4-Bromofluorobenzene	460-00-4	104%	85 – 114	06/28/2024 17:52	
4-Bromofluorobenzene	460-00-4	93.5%	85 – 114	06/27/2024 16:29	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/28/2024 17:52	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/27/2024 16:29	
Toluene-d8	2037-26-5	105%	89 – 112	06/28/2024 17:52	
Toluene-d8	2037-26-5	98.6%	89 – 112	06/27/2024 16:29	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-09	Collected	06/14/2024 12:00
Lab Sample ID	3366028008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 12:46	TMP	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 12:46	TMP	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-09	Collected	06/14/2024 12:00
Lab Sample ID	3366028008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/28/2024 12:46	
4-Bromofluorobenzene	460-00-4	92.8%	85 – 114	06/28/2024 12:46	
Dibromofluoromethane	1868-53-7	93%	80 – 119	06/28/2024 12:46	
Toluene-d8	2037-26-5	98.3%	89 – 112	06/28/2024 12:46	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 17:09	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 17:09	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Trichloroethene	1.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 17:09	
4-Bromofluorobenzene	460-00-4	95.2%	85 – 114	06/27/2024 17:09	
Dibromofluoromethane	1868-53-7	102%	80 – 119	06/27/2024 17:09	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 17:09	

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 12:50	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 12:50	ILY	A

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Project HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Trichlorofluoromethane	2.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.3%	81 – 118	06/27/2024 12:50	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/27/2024 12:50	
Dibromofluoromethane	1868-53-7	97%	80 – 119	06/27/2024 12:50	
Toluene-d8	2037-26-5	103%	89 – 112	06/27/2024 12:50	

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Project HS24060985
Workorder 3366028

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366028001	HS24060985-01	SW846 8260D	N/A	
3366028002	HS24060985-02	SW846 8260D	N/A	
3366028003	HS24060985-03	SW846 8260D	N/A	
3366028004	HS24060985-04	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366028005	HS24060985-05	SW846 8260D	N/A	
3366028006	HS24060985-06	SW846 8260D	N/A	
3366028007	HS24060985-08	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366028008	HS24060985-09	SW846 8260D	N/A	
3366028009	HS24060985-10	SW846 8260D	N/A	
3366028010	HS24060985-11	SW846 8260D	N/A	

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366028006	3366028001	3366028002	3366028009
3366028003	3366028010	3366028007	3366028004

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	

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VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

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VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U

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VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		

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VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

QC Batch

QC Batch	1236144	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366028005 3366028007 3366028008 3366028004

Method Blank 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	26.80	30	89.4	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	92	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.10		20	95.6	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.50		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.70		20	104	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.80		20	104	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.50		20	108	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.60		20	103	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.50		20	97.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.20		20	106	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.10		20	121	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19		20	94.8	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.90		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.5	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.80		20	104	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.10		20	110	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.60		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.80		20	109	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	107	60 - 139		
2-Butanone	78-93-3	LCS	104		100	104	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	67 - 130		

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Acetone	67-64-1	LCS	108		100	108	39 - 160		
Benzene	71-43-2	LCS	19.90		20	99.3	79 - 120		
Bromobenzene	108-86-1	LCS	20.10		20	100	80 - 120		
Bromochloromethane	74-97-5	LCS	21.20		20	106	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.80		20	94.2	79 - 125		
Bromoform	75-25-2	LCS	18.10		20	90.3	66 - 130		
Bromomethane	74-83-9	LCS	20		20	100	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.10		20	106	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87.2	72 - 136		
Chlorobenzene	108-90-7	LCS	20.60		20	103	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.4	74 - 126		
Chloroethane	75-00-3	LCS	20.30		20	102	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	20.10		20	100	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.10		20	106	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.90		20	94.3	75 - 124		
Dibromomethane	74-95-3	LCS	20.20		20	101	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.10		20	101	32 - 152		
Ethylbenzene	100-41-4	LCS	19.10		20	95.7	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.70		20	113	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.20		20	121	72 - 131		
Methylene Chloride	75-09-2	LCS	21.40		20	107	74 - 124		
mp-Xylene	108383/106423	LCS	38.90		40	97.2	80 - 121		
Naphthalene	91-20-3	LCS	19.90		20	99.6	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.30		20	107	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.10		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.30		20	96.4	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.40		20	112	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.80		20	109	77 - 127		
sec-Butylbenzene	135-98-8	LCS	22.90		20	115	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.20		20	101	74 - 129		
Toluene	108-88-3	LCS	19.60		20	98.2	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.50		20	108	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.60		20	97.9	73 - 127		
Trichloroethene	79-01-6	LCS	20.20		20	101	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.30		20	96.5	65 - 141		
Vinyl Chloride	75-01-4	LCS	19.70		20	98.7	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.40	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.20	30	97.3	85 - 114	

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Project HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Dibromofluoromethane	1868-53-7	LCS	29.70	30	98.9	80 - 119	
Toluene-d8	2037-26-5	LCS	30.30	30	101	89 - 112	

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Workorder 3366028

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366028001	HS24060985-01	N/A	N/A	N/A		SW846 8260D	1235282
3366028002	HS24060985-02	N/A	N/A	N/A		SW846 8260D	1235282
3366028003	HS24060985-03	N/A	N/A	N/A		SW846 8260D	1235282
3366028004	HS24060985-04	N/A	N/A	N/A		SW846 8260D	1236144
		N/A	N/A	N/A		SW846 8260D	1235282
3366028005	HS24060985-05	N/A	N/A	N/A		SW846 8260D	1236144
3366028006	HS24060985-06	N/A	N/A	N/A		SW846 8260D	1235282
3366028007	HS24060985-08	N/A	N/A	N/A		SW846 8260D	1236144
		N/A	N/A	N/A		SW846 8260D	1235282
3366028008	HS24060985-09	N/A	N/A	N/A		SW846 8260D	1236144
3366028009	HS24060985-10	N/A	N/A	N/A		SW846 8260D	1235282
3366028010	HS24060985-11	N/A	N/A	N/A		SW846 8260D	1235282

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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: **Texas**

COC ID: **26140**

3366028
Logged By: MJE
PM: SSL

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

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:	HS24060985
TSR:	Sonia West

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID	MATRIX	COLLECT DATE / DUE DATE
1.	**HS24060985-01**	**18CPTMW10DW_061424**	**Groundwater**	**14 Jun 2024 07:35**
	Custom selection 1-G|HCL MJE 6/26/24			01 Jul 2024
2.	**HS24060985-02**	**18CPTMW10DW_061424_a**	**Groundwater**	**14 Jun 2024 07:35**
	Custom selection 2-G|HCL			01 Jul 2024
3.	**HS24060985-03**	**18CPTMW10SW_061424**	**Groundwater**	**14 Jun 2024 06:50**
	Custom selection			01 Jul 2024
4.	**HS24060985-04**	**MW9_061424** 2-G|HCL	**Groundwater**	**14 Jun 2024 08:20**
	Custom selection			01 Jul 2024
5.	**HS24060985-05**	**MW10_-061424**	**Groundwater**	**14 Jun 2024 09:00**
	Custom selection			01 Jul 2024
6.	**HS24060985-06**	**18WW10_061424**	**Groundwater**	**14 Jun 2024 09:45**
	Custom selection			01 Jul 2024
7.	**HS24060985-08**	**MW16_061424**	**Groundwater**	**14 Jun 2024 11:15**
	Custom selection			01 Jul 2024
8.	**HS24060985-09**	**17WW08_061424**	**Groundwater**	**14 Jun 2024 12:00**
	Custom selection			01 Jul 2024
9.	**HS24060985-10**	**17WW08_061424_a**	**Groundwater**	**14 Jun 2024 12:00**

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47 of 48
6/30/2024 3:40 PM

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26140**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Custom selection			01 Jul 2024
10.	**HS24060985-11**	**Trip Blank**	**Water**	**14 Jun 2024 00:00**
	Custom selection			01 Jul 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

	MJE
Receipt Info Completed By:	
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NI≤4 Days?	Y (N)
Rad Screen (uCi)	—
Courier/Tracking #:	773879234761
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

*No sampler, 6/C, 6/HCl - MJE 6/26/24

PM notified 1452724

Relinquished By: AM Date/Time: 6/25/24 18:00

Received By: Fedex Date/Time:

~~Cooler ID(s)~~: Fedex ~~Temperature(s)~~: 6/26/24 936

6/26/24 936

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HS24060985-MSSEMI-SW8270SIM

ALS WO# HS24060985

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right partner.

Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060985

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470987

18CPTMW10SW_061424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060985-03	Groundwater	06/29/24 15:50	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	11.D	0.051	0.08	63.8		40-140
4-Terphenyl-d14	11.D	0.045	0.08	56.3		40-140
Nitrobenzene-d5	11.D	0.055	0.08	69.0		40-140

MW9_061424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060985-04	Groundwater	06/29/24 16:08	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	12.D	0.051	0.08	63.5		40-140
4-Terphenyl-d14	12.D	0.066	0.08	83.0		40-140
Nitrobenzene-d5	12.D	0.062	0.08	77.3		40-140

MW10_-061424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060985-05	Groundwater	06/29/24 16:25	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	13.D	0.085	0.08	106		40-140
4-Terphenyl-d14	13.D	0.054	0.08	68.0		40-140
Nitrobenzene-d5	13.D	0.085	0.08	106		40-140

18WW10_061424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060985-06	Groundwater	06/29/24 16:42	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	14.D	0.058	0.08	72.8		40-140
4-Terphenyl-d14	14.D	0.044	0.08	55.0		40-140
Nitrobenzene-d5	14.D	0.065	0.08	80.7		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060985

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470987

MW17_061424

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/29/24 17:00	%REC	1

Lab Sample ID HS24060985-07

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	15.D	0.074	0.08	92.3		40-140
4-Terphenyl-d14	15.D	0.059	0.08	73.3		40-140
Nitrobenzene-d5	15.D	0.082	0.08	103		40-140

MW16_061424

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	07/01/24 17:35	%REC	10

Lab Sample ID HS24060985-08

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	16.D	0.078	0.08	97.1		40-140
4-Terphenyl-d14	16.D	0.085	0.08	106		40-140
Nitrobenzene-d5	16.D	0.065	0.08	80.7		40-140

LCS-213834

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/29/24 15:15	%REC	1

Lab Sample ID LCS-213834

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	09.D	0.05815	0.08	72.7		40-140
4-Terphenyl-d14	09.D	0.04582	0.08	57.3		40-140
Nitrobenzene-d5	09.D	0.06435	0.08	80.4		40-140

LCSD-213834

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/29/24 15:33	%REC	1

Lab Sample ID LCSD-213834

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	10.D	0.05359	0.08	67.0		40-140
4-Terphenyl-d14	10.D	0.03425	0.08	42.8		40-140
Nitrobenzene-d5	10.D	0.06272	0.08	78.4		40-140

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS24060985
Project	LHAAP 18 24		

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470987

MBLK-213834

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	MBLK-213834	Aqueous	06/29/24 14:58	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	08.D	0.06599	0.08	82.5		40-140
4-Terphenyl-d14	08.D	0.09292	0.08	116		40-140
Nitrobenzene-d5	08.D	0.06278	0.08	78.5		40-140

right solutions.
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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060985

EPA 3510

SAMPLENUM LCS-213834

SV-6_470987				LCS-213834		LCSD-213834					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/29/24	Run Date	06/29/24				
Prep Date	06/20/24	Analysis Batch	213834	Run Time	15:15	Run Time	15:33				
Prep Method	SW3510	Prep Batch	213834	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	0.06136	77		0.06341	79		20	200	

right solutions.
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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060985

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Prep Batch	Inst ID
MBLK-213834	06/20/24	213834	Aqueous	06/29/24 14:58	213834	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Prep Batch	Inst ID	FileID
LCS-213834	LCS-213834	LCS	06/29/24 15:15	213834	SV6	09.D
LCSD-213834	LCSD-213834	LCSD	06/29/24 15:33	213834	SV6	10.D
18CPTMW10SW_061424	HS24060985-03	SAMP	06/29/24 15:50	213834	SV6	11.D
MW9_061424	HS24060985-04	SAMP	06/29/24 16:08	213834	SV6	12.D
MW10_-061424	HS24060985-05	SAMP	06/29/24 16:25	213834	SV6	13.D
18WW10_061424	HS24060985-06	SAMP	06/29/24 16:42	213834	SV6	14.D
MW17_061424	HS24060985-07	SAMP	06/29/24 17:00	213834	SV6	15.D
MW16_061424	HS24060985-08	SAMP	07/01/24 17:35	213834	SV6	16.D

right solutions.
right partner.

Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.08	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

ALS Houston, US Date: 26-Jul-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985 **Run ID:** SV-6_470987

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 29-Jun-2024
Injection Time: 11:59

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	0.1
51	10.0 - 80.0% of mass 198	27.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	0.0
69	Mass 69 relative abundance	31.3
70	Less than 2.0% of mass 69	0.0 (0.0) 1
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	1.4
127	10.0 - 80.0% of mass 198	41.8
197	Less than 2.0% of mass 198	15.7
197	Less than 2.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
198	Base peak, 100% relative abundance	94.4
199	5.0 - 9.0% of mass 198	15.1
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	0.0
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1.0% of mass 198	0.0
365	Greater than 1.0% of mass 198	3.2
441	Present, but < 24.0% of mass 442	0.0
441	Present, but < 24.0% of mass 442	71.1
442	greater than 50.0% of mass 198	0.0
442	greater than 50.0% of mass 198	106.0
443	15.0 - 24.0% of mass 442	0.0 (0.0) 2
443	15.0 - 24.0% of mass 442	20.6 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
14DX-0.08	14DX-0.08	05A.D	29-Jun-2024 13:58
MBLK-213834	MBLK-213834	08.D	29-Jun-2024 14:58
LCS-213834	LCS-213834	09.D	29-Jun-2024 15:15
LCSD-213834	LCSD-213834	10.D	29-Jun-2024 15:33
18CPTMW10SW_061424	HS24060985-03	11.D	29-Jun-2024 15:50
MW9_061424	HS24060985-04	12.D	29-Jun-2024 16:08
MW10_-061424	HS24060985-05	13.D	29-Jun-2024 16:25
18WW10_061424	HS24060985-06	14.D	29-Jun-2024 16:42
MW17_061424	HS24060985-07	15.D	29-Jun-2024 17:00
14DX-0.08	14DX-0.08	23.D	29-Jun-2024 19:19
14DX-0.08	14DX-0.08	04.D	01-Jul-2024 13:00
MW16_061424	HS24060985-08	16.D	01-Jul-2024 17:35
14DX-0.08	14DX-0.08	17.D	01-Jul-2024 17:52

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

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060985

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id 14DX ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID 14DX ICV-0.08
SampleType METHSPIKE
Inj Date 18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	80-120	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

ALS Environmental–Houston Laboratory
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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060985

RunID 04.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 01-JUL-2024 1300
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	0.294	0.010	-2.126	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.27	0.010	-16.827	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.69	0.010	-17.116	20.0	Averaged	
1,4-Dioxane	0.214	0.189	0.010	-11.838	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060985

RunID 05A.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 05A.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1358
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	0.261	0.010	-12.979	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.34	0.010	-12.276	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.63	0.010	-19.957	20.0	Averaged	
1,4-Dioxane	0.214	0.180	0.010	-15.962	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060985

RunID 17.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 17.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 01-JUL-2024 1752
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.256	0.010	-14.862	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.64	0.010	7.00	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.71	0.010	-16.093	20.0	Averaged	
1,4-Dioxane	0.214	0.180	0.010	-15.899	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060985

RunID 23.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 23.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1919
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	0.247	0.010	-17.572	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.39	0.010	-9.071	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.18	0.010	-42.007	20.0	Averaged	*
1,4-Dioxane	0.214	0.180	0.010	-15.915	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	8105	5.85	6578	8.36	6794	9.86
	UPPER LIMIT	16210	6.35	13156	8.86	13588	10.36
	LOWER LIMIT	4053	5.35	3289	7.86	3397	9.36
	CLIENT SAMPLE NO.						
01	MBLK-213834	7029	5.85	10453	8.36	6052	9.86
02	LCS-213834	5492	5.85	4776	8.36	4771	9.86
03	LCSD-213834	7748	5.85	7330	8.36	7279	9.85
04	HS24060985-3	6147	5.85	5545	8.36	5618	9.86
05	HS24060985-4	5916	5.85	5106	8.36	5647	9.85
06	HS24060985-5	6598	5.85	6180	8.36	6338	9.86
07	HS24060985-6	6985	5.85	6666	8.36	6824	9.86
08	HS24060985-7	5815	5.85	5336	8.36	5625	9.86
09	HS24060985-8	6255	5.85	295*	8.32	5797	9.85
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1993	1.93	7115	2.88	4286	4.46
	UPPER LIMIT	3986	2.43	14230	3.38	8572	4.96
	LOWER LIMIT	997	1.43	3558	2.38	2143	3.96
	CLIENT SAMPLE NO.						
01	MBLK-213834	2749	1.92	5842	2.88	3645	4.46
02	LCS-213834	1438	1.92	4462	2.88	2780	4.46
03	LCSD-213834	1848	1.92	6548	2.88	3928	4.46
04	HS24060985-3	2548	1.91	5033	2.88	3054	4.46
05	HS24060985-4	2442	1.92	4605	2.88	3005	4.46
06	HS24060985-5	1678	1.92	4919	2.88	3360	4.46
07	HS24060985-6	2713	1.92	5690	2.88	3531	4.46
08	HS24060985-7	2405	1.92	4543	2.88	2938	4.46
09	HS24060985-8	2510	1.92	355*	2.81	183*	4.31
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 07/01/24

Instrument ID: SV6 Time Analyzed: 1300

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1774	1.84	5505	2.80	3383	4.37
	UPPER LIMIT	3548	2.34	11010	3.30	6766	4.87
	LOWER LIMIT	887	1.34	2753	2.30	1692	3.87
	CLIENT SAMPLE NO.						
01	HS24060985-8	2421	1.84	4953	2.80	3823	4.37
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 07/01/24

Instrument ID: SV6 Time Analyzed: 1300

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	6893	5.76	6069	8.27	5983	9.72
	UPPER LIMIT	13786	6.26	12138	8.77	11966	10.22
	LOWER LIMIT	3447	5.26	3035	7.77	2992	9.22
	CLIENT SAMPLE NO.						
01	HS24060985-8	6391	5.76	6385	8.28	6928	9.73
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Prep Batch Report

Batch ID:	213834	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	20 Jun 2024 06:30 AM	**Original Factor:**	0.001
End Date:	20 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060985-03	C	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24060985-04	D	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24060985-05	C	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24060985-06	C	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24060985-07	B	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24060985-08	C	Groundwater	7	1000	1	0.001	1	ph adj 1/13clno
HS24061001-02	A	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061001-03	A	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061052-01	A	Water	7	570	1	0.001754	1.754	ph adj 1/13clno Out of Hold
HS24061218-01	C	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061218-02	D	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061218-03	D	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061218-04	C	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061218-05	D	Water	7	1000	1	0.001	1	ph adj 1/13clno
HS24061218-06	C	Water	7	1000	1	0.001	1	ph adj 1/13clno
LCS-213834	A		5	1000	1	0.001	1	ph adj 1/13clno
LCS1-213834	A		5	1000	1	0.001	1	ph adj 1/13clno
LCSD-213834	A		5	1000	1	0.001	1	ph adj 1/13clno
LCSD1-213834	A		5	1000	1	0.001	1	ph adj 1/13clno
MBLK-213834	A		5	1000	1	0.001	1	ph adj 1/13clno

Prep Batch Report

Batch ID:	213834	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	20 Jun 2024 06:30 AM	**Original Factor:**	0.001
End Date:	20 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-13)d(14-20)l ()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

right solutions.
right partner.

Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

SV06 -Logbook

Batch: 60588 **Analyst:** Marco Gutierrez

Date: 06-29-2024 **Reviewer:**

Method: R8270D 14DX/LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-29-2024 11:59 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-29-2024 12:12 pm	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	DFTPP	TUNE	06-29-2024 12:31 pm	1.00	0.00 gm	0.00 mL	03.D		Y	NA
4	PAHLVI-0.025	CCV	06-29-2024 12:51 pm	1.00	33.00 mL	2000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.08	CCV	06-29-2024 01:58 pm	1.00	1000.00 mL	1000.00 mL	05A.D	Liquid	Y	NA
6	HS24060795-01X10	SAMP	06-29-2024 02:23 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS24060899-02X10	SAMP	06-29-2024 02:40 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	MBLK-213834	SAMP	06-29-2024 02:58 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCS-213834	SAMP	06-29-2024 03:15 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	LCSD-213834	SAMP	06-29-2024 03:33 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24060985-03	SAMP	06-29-2024 03:50 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24060985-04	SAMP	06-29-2024 04:08 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24060985-05	SAMP	06-29-2024 04:25 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24060985-06	SAMP	06-29-2024 04:42 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24060985-07	SAMP	06-29-2024 05:00 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060985-08	SAMP	06-29-2024 05:17 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24061218-01	SAMP	06-29-2024 05:35 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24061218-02	SAMP	06-29-2024 05:52 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24061218-03	SAMP	06-29-2024 06:10 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24061218-04	SAMP	06-29-2024 06:27 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24061218-05	SAMP	06-29-2024 06:45 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24061218-06	SAMP	06-29-2024 07:02 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	14DX-0.08	SAMP	06-29-2024 07:19 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060619-07	SAMP	06-29-2024 07:37 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060619-08	SAMP	06-29-2024 07:54 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060619-09	SAMP	06-29-2024 08:12 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060619-10	SAMP	06-29-2024 08:29 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060619-11	SAMP	06-29-2024 08:47 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060619-12	SAMP	06-29-2024 09:04 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24061052-01	SAMP	06-29-2024 09:21 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	MBLK-214211	SAMP	06-29-2024 09:39 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	LCS-214211	SAMP	06-29-2024 09:56 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
33	LCSD-214211	SAMP	06-29-2024 10:14 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
34	HS24061637-01	SAMP	06-29-2024 10:31 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
35	HS24060967-01X1H	SAMP	06-29-2024 10:48 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
36	HS24060967-01X10	SAMP	06-29-2024 11:06 pm	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
37	HS24061616-01	SAMP	06-29-2024 11:23 pm	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

SV06 -Logbook

Batch: 60596 **Analyst:** Marco Gutierrez

Date: 07-01-2024 **Reviewer:**

Method: R8270D LVI/14dx **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	07-01-2024 11:45 am	1.00	0.00 gm	0.00 mL	01A.D		Y	NA
2	SLSTD-2.5	CCV	07-01-2024 11:57 am	1.00	1000.00 mL	1000.00 mL	02A.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	07-01-2024 12:42 pm	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	07-01-2024 01:00 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	PAHLVI-0.025	CCV	07-01-2024 01:46 pm	1.00	33.00 mL	2000.00 mL	05.D	Liquid	Y	NA
6	PAHLVI-0.025	CCV	07-01-2024 02:10 pm	1.00	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	HS24061637-01RR	SAMP	07-01-2024 02:42 pm	1.00	33.00 mL	2000.00 mL	07.D	Liquid	Y	NA
8	IS TEST	SAMP	07-01-2024 03:00 pm	1.00	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS24060967-01	SAMP	07-01-2024 03:17 pm	100.0(	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	MBLK-214349	SAMP	07-01-2024 03:50 pm	1.00	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	LCS-214349	SAMP	07-01-2024 04:08 pm	1.00	33.00 mL	2000.00 mL	11.D	Liquid	Y	NA
12	LCSD-214349	SAMP	07-01-2024 04:25 pm	1.00	33.00 mL	2000.00 mL	12.D	Liquid	Y	NA
13	HS24061803-01	SAMP	07-01-2024 04:43 pm	1.00	33.00 mL	2000.00 mL	13.D	Liquid	Y	NA
14	HS24061803-02	SAMP	07-01-2024 05:00 pm	1.00	33.00 mL	2000.00 mL	14.D	Liquid	Y	NA
15	HS24061803-03	SAMP	07-01-2024 05:18 pm	1.00	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	HS24060985-08X10	SAMP	07-01-2024 05:35 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	07-01-2024 05:52 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\01.D Page 1
Report Date: 29-Jun-2024 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2024 11:59
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.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	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.223	5.571	-0.348	198	12554			0.00- 100.00	100.00(Q)
5.223	6.357	-1.134	51	8			10.00- 80.00	0.06
5.223	6.357	-1.134	68	0	0.0	0.0	0.00- 2.00	0.00
5.223	6.357	-1.134	69	0	0.0	0.0	0.00- 0.00	0.00
5.223	6.357	-1.134	70	0	0.0	0.0	0.00- 2.00	0.00
5.223	6.357	-1.134	127	174			10.00- 80.00	1.39
5.223	6.357	-1.134	197	1968			0.00- 2.00	15.68
5.223	6.357	-1.134	199	1899			5.00- 9.00	15.13
5.223	6.357	-1.134	275	0	0.0	0.0	10.00- 60.00	0.00
5.223	6.357	-1.134	365	0	0.0	0.0	1.00- 100.00	0.00
5.223	6.357	-1.134	441	0	0.0	0.0	0.01- 99.99	0.00
5.223	6.357	-1.134	442	0	0.0	0.0	50.00- 150.00	0.00
5.223	6.357	-1.134	443	0	0.0	0.0	15.00- 24.00	0.00

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D Page 1
Report Date: 29-Jun-2024 14:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 13:58
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 29-Jun-2024 14:15 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5 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	1.926	1.926	(1.000)	1993	0.10000	(aQM)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	7115	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1487	0.08000	0.06962(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	4286	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.862	3.862	(0.866)	4598	0.08000	0.07018(M)
* 126 Phenanthrene-d10	188	5.849	5.849	(1.000)	8105	0.10000	
* 182 Chrysene-d12	240	8.361	8.361	(1.000)	6578	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	8581	0.08000	0.06403(M)
* 198 Perylene-d12	264	9.856	9.856	(1.000)	6794	0.10000	
1 1,4-Dioxane	58	0.778	0.778	(0.404)	287	0.08000	0.06723(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\240629.b\05A.D

Date : 29-JUN-2024 13:58

Client ID: 14DX-0.08

Instrument: SV6.i

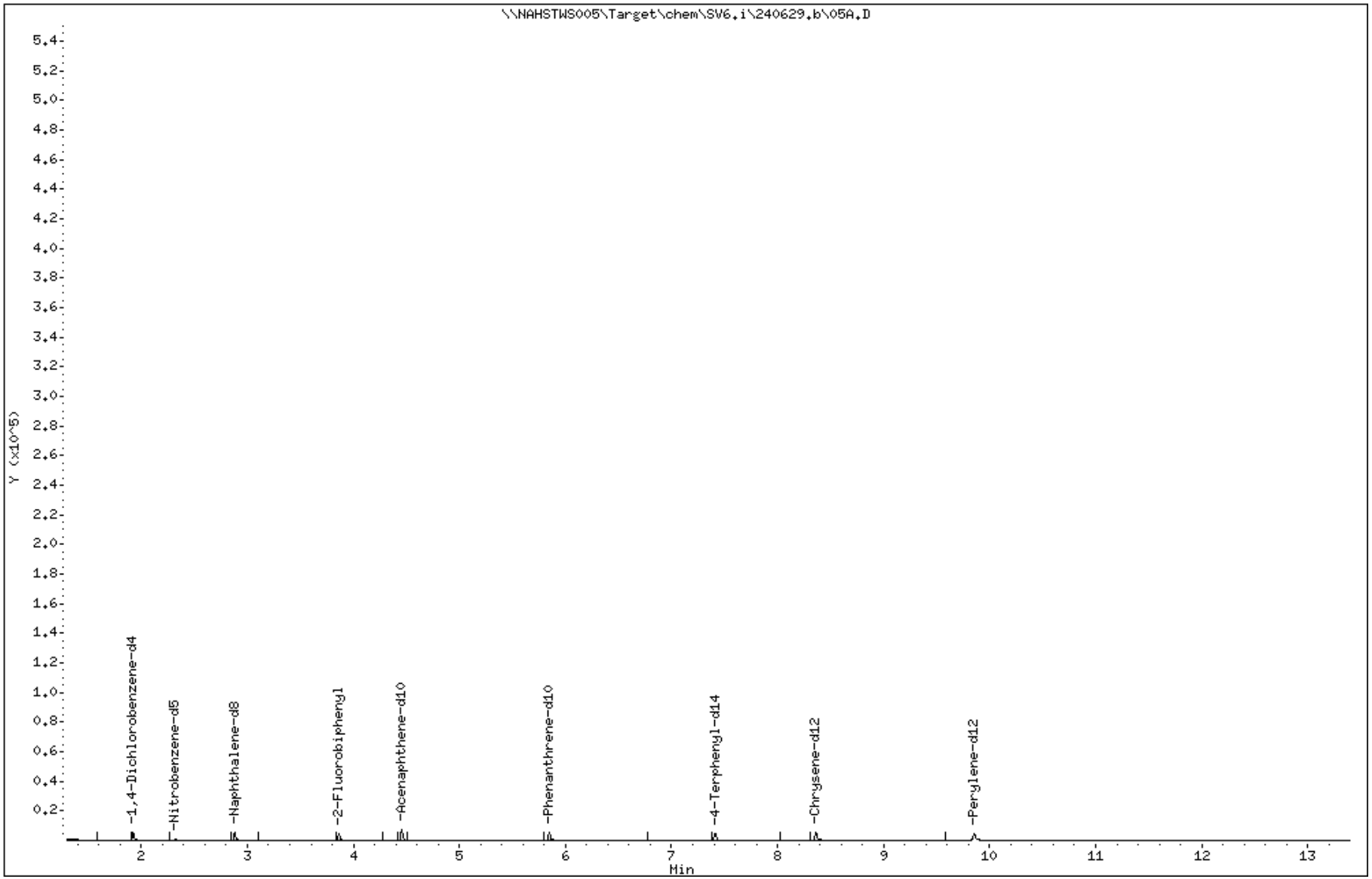
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



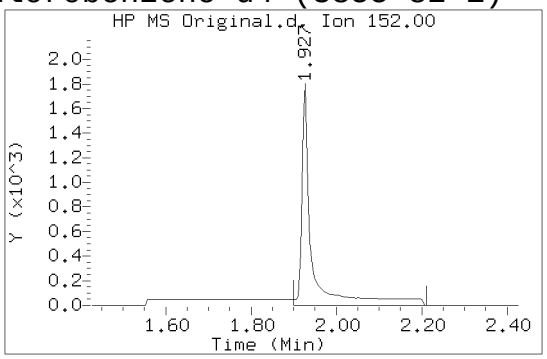
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

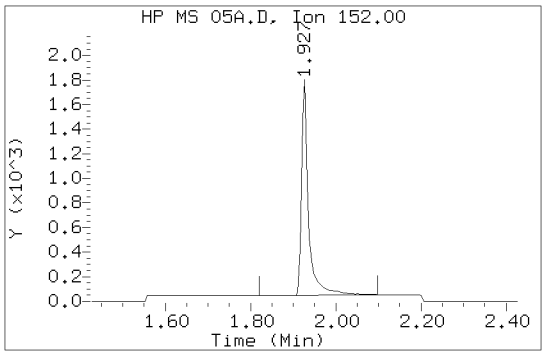
BEFORE

MASS
152
AREA
2940
HEIGHT
1802
29-Jun-2024
14:13
ALSHS
Server



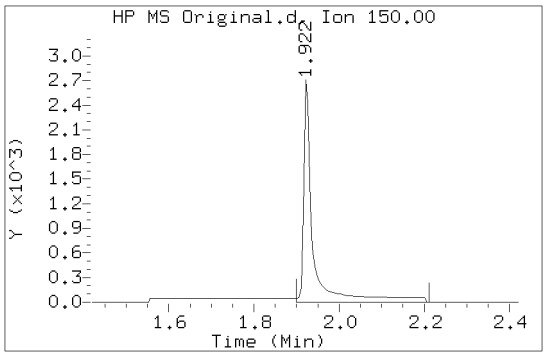
AFTER

MASS
152
AREA
1993
HEIGHT
1752
29-Jun-2024
14:15



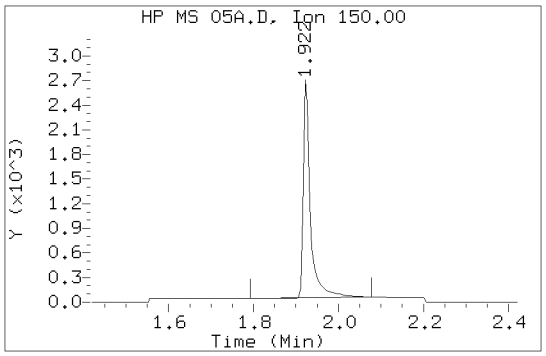
BEFORE

MASS
150
AREA
4154
HEIGHT
2708
29-Jun-2024
14:13
ALSHS
Server



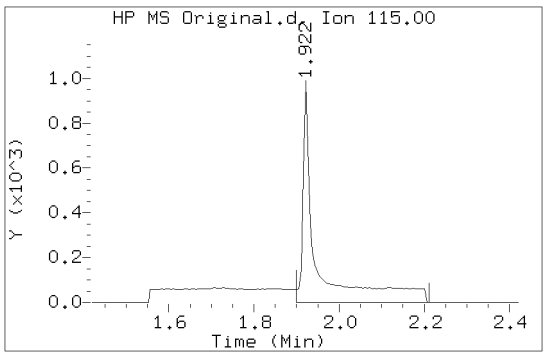
AFTER

MASS
150
AREA
3076
HEIGHT
2653
29-Jun-2024
14:15



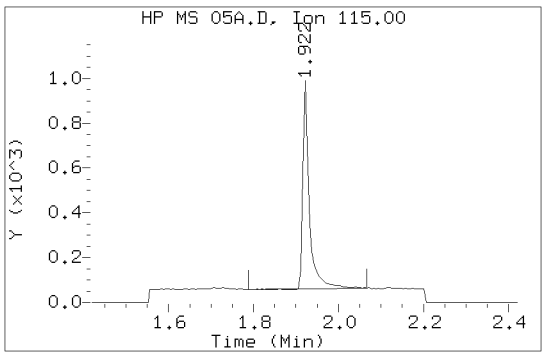
BEFORE

MASS
115
AREA
2134
HEIGHT
990
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
115
AREA
1012
HEIGHT
930
29-Jun-2024
14:15

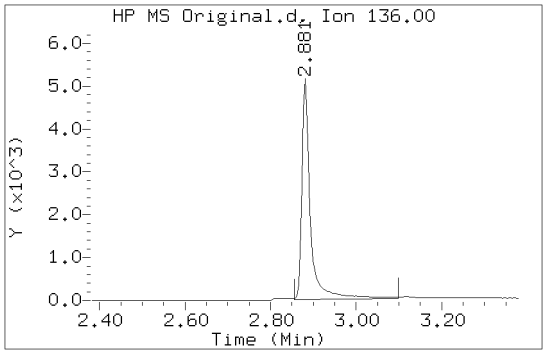


Naphthalene-d8 (1146-65-2)

Reason Code:

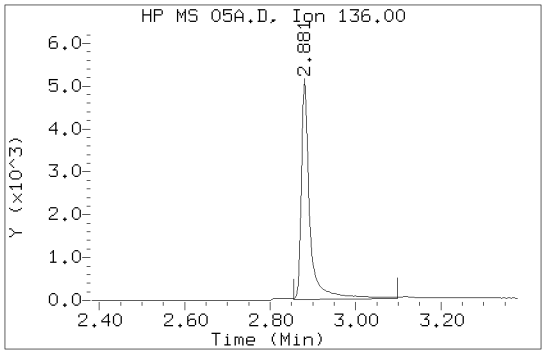
BEFORE

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:15



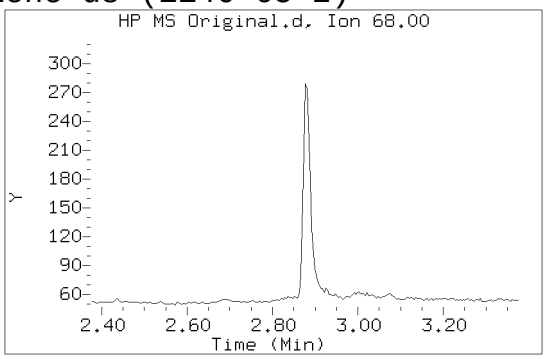
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

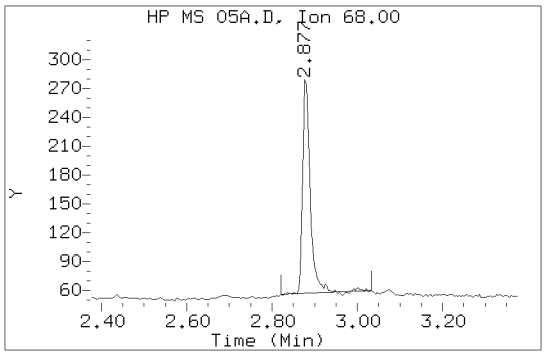
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
68
AREA
273
HEIGHT
221
29-Jun-2024
14:15

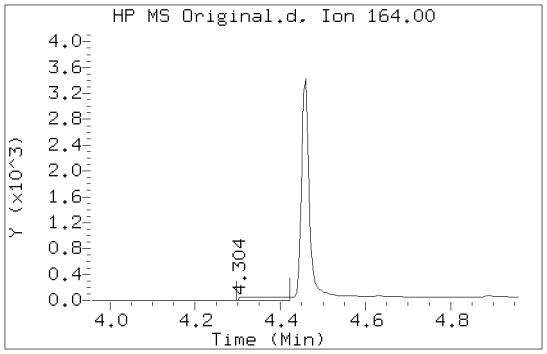


Acenaphthene-d10 (15067-26-2)

Reason Code:

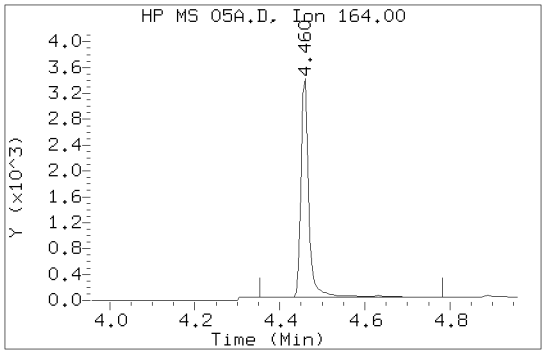
BEFORE

MASS
164
AREA
356
HEIGHT
52
29-Jun-2024
14:13
ALSHS
Server



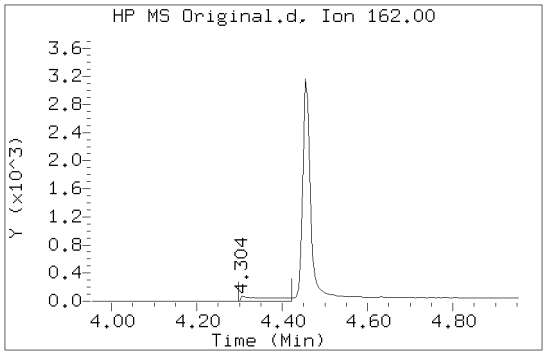
AFTER

MASS
164
AREA
4286
HEIGHT
3377
29-Jun-2024
14:15



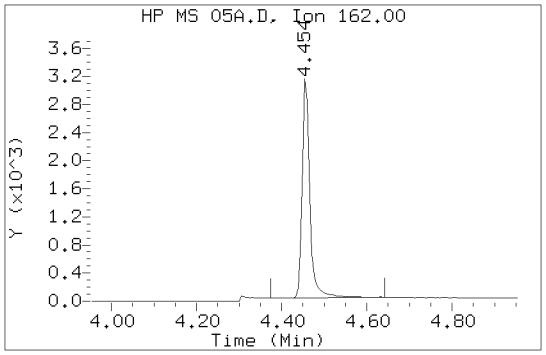
BEFORE

MASS
162
AREA
367
HEIGHT
75
29-Jun-2024
14:13
ALSHS
Server



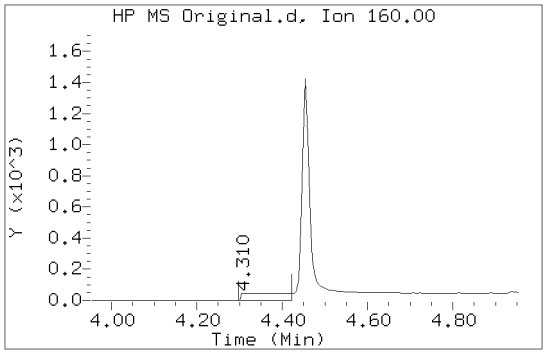
AFTER

MASS
162
AREA
3825
HEIGHT
3112
29-Jun-2024
14:15



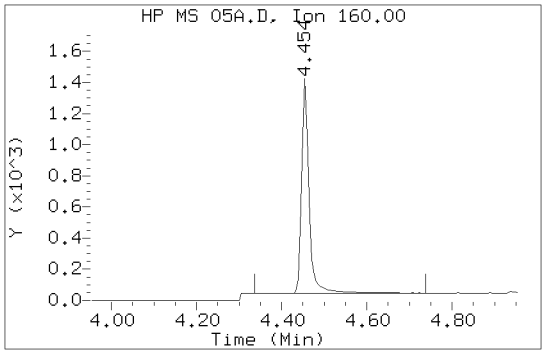
BEFORE

MASS
160
AREA
332
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
160
AREA
1655
HEIGHT
1377
29-Jun-2024
14:15

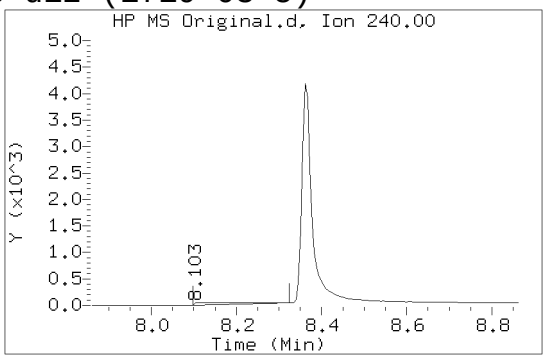


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

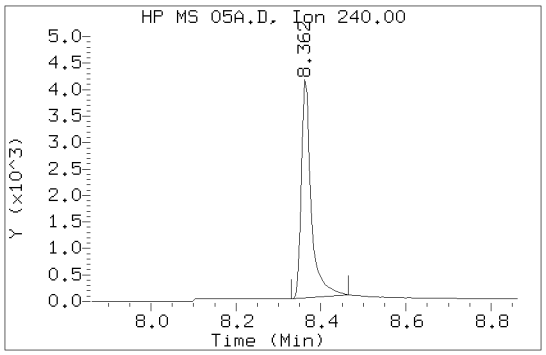
Chrysene-d12 (1719-03-5)

Reason Code:

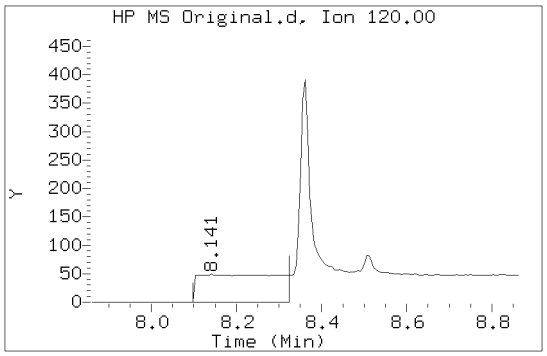
BEFORE
MASS
240
AREA
295
HEIGHT
43
29-Jun-2024
14:13
ALSHS
Server



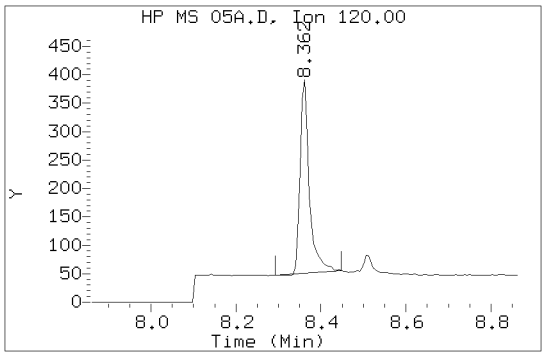
AFTER
MASS
240
AREA
6578
HEIGHT
4123
29-Jun-2024
14:15



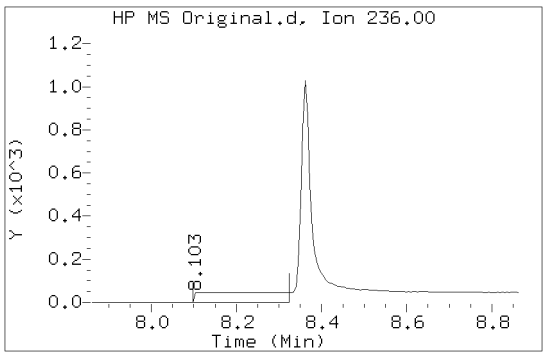
BEFORE
MASS
120
AREA
640
HEIGHT
50
29-Jun-2024
14:13
ALSHS
Server



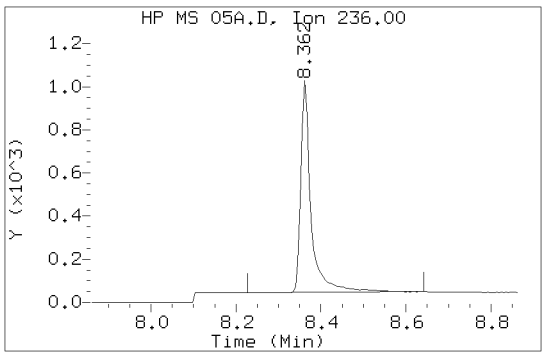
AFTER
MASS
120
AREA
509
HEIGHT
340
29-Jun-2024
14:15



BEFORE
MASS
236
AREA
612
HEIGHT
46
29-Jun-2024
14:13
ALSHS
Server



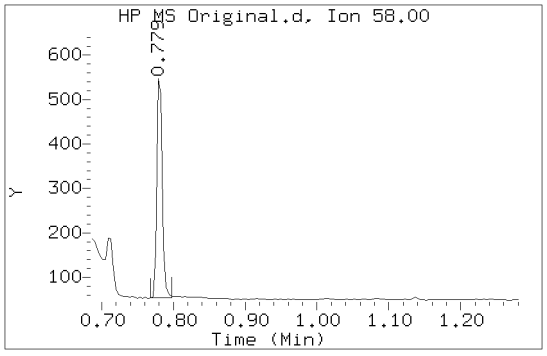
AFTER
MASS
236
AREA
1625
HEIGHT
981
29-Jun-2024
14:15



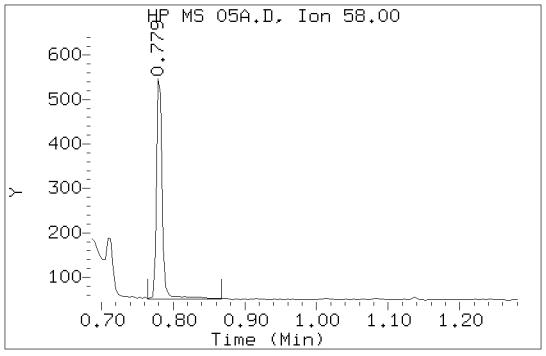
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
266
HEIGHT
493
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
58
AREA
287
HEIGHT
496
29-Jun-2024
14:15

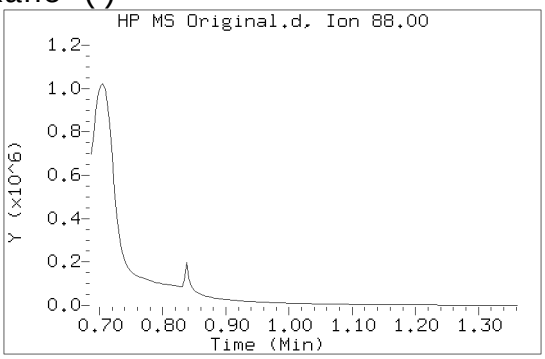


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

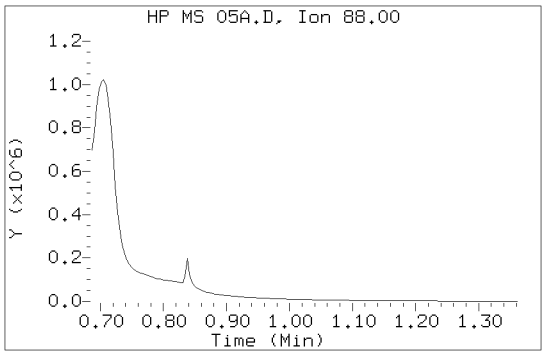
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



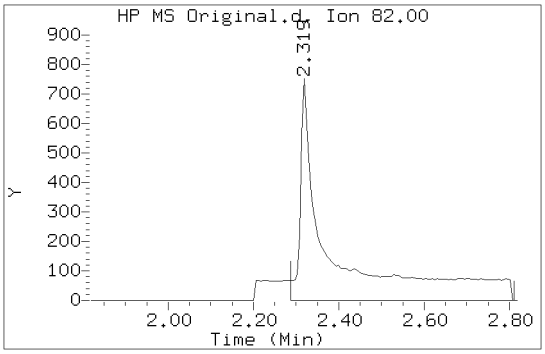
AFTER
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:15



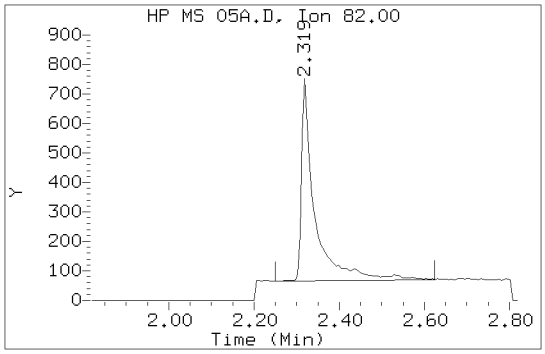
Nitrobenzene-d5 (4165-60-0)

Reason Code:

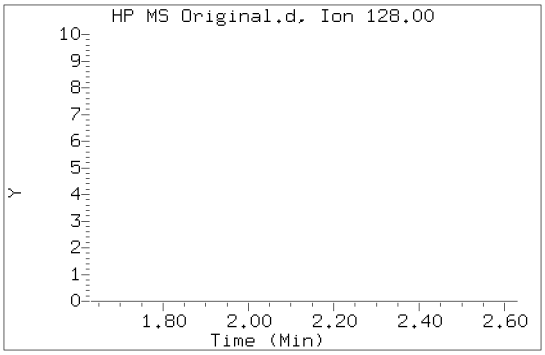
BEFORE
MASS
82
AREA
3627
HEIGHT
752
29-Jun-2024
14:13
ALSHS
Server



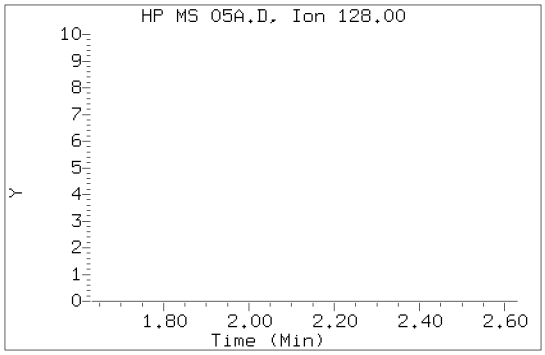
AFTER
MASS
82
AREA
1487
HEIGHT
686
29-Jun-2024
14:15



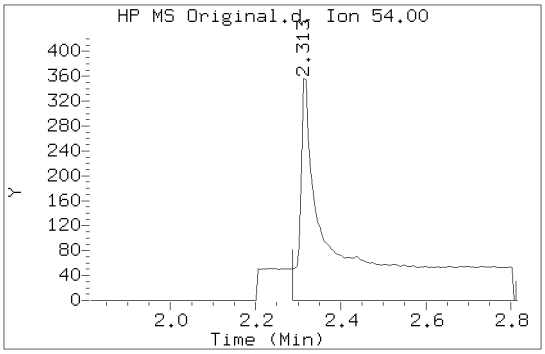
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



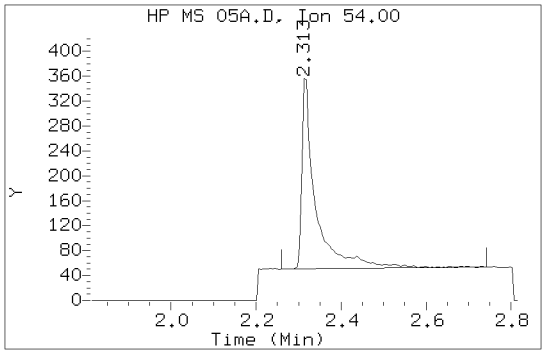
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:15



BEFORE
MASS
54
AREA
2320
HEIGHT
356
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
54
AREA
696
HEIGHT
305
29-Jun-2024
14:15



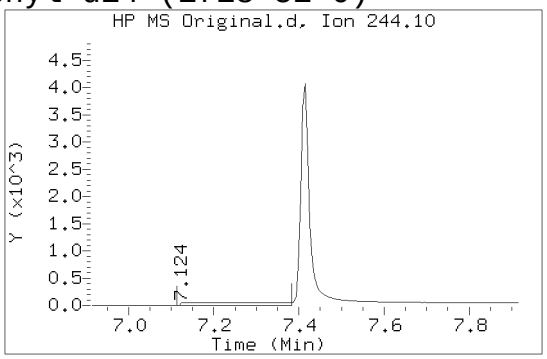
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

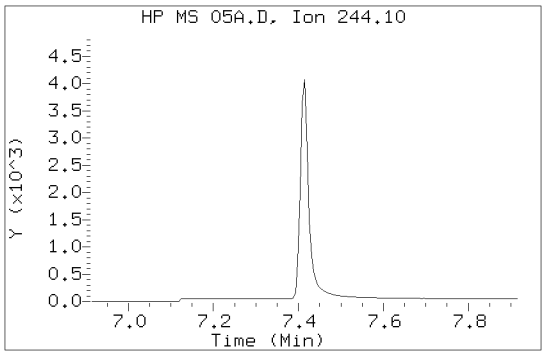
BEFORE

MASS
244.1
AREA
704
HEIGHT
45
29-Jun-2024
14:13
ALSHS
Server



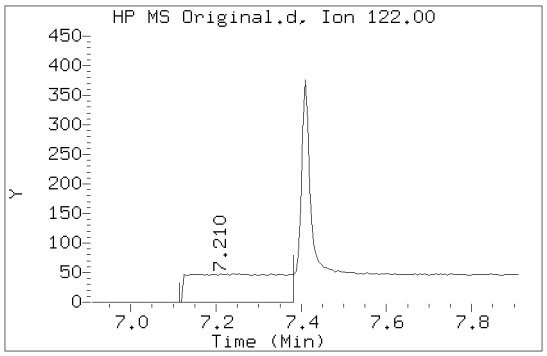
AFTER

MASS
244.1
AREA
8581
HEIGHT
4073
29-Jun-2024
14:15



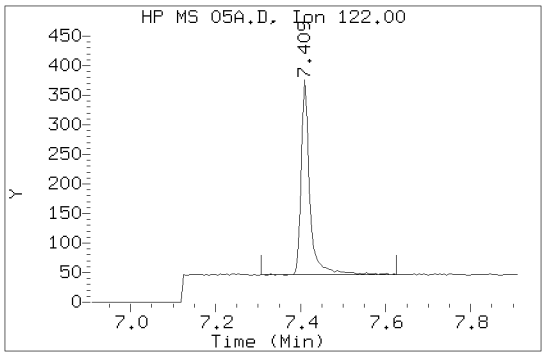
BEFORE

MASS
122
AREA
740
HEIGHT
48
29-Jun-2024
14:13
ALSHS
Server



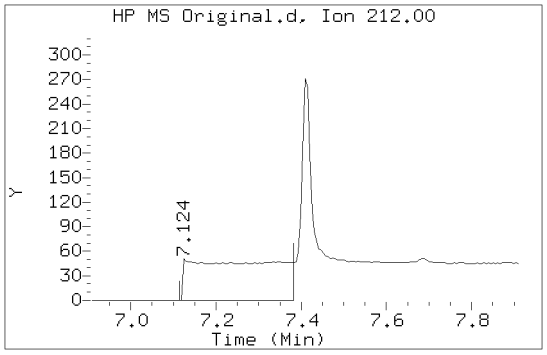
AFTER

MASS
122
AREA
455
HEIGHT
329
29-Jun-2024
14:15



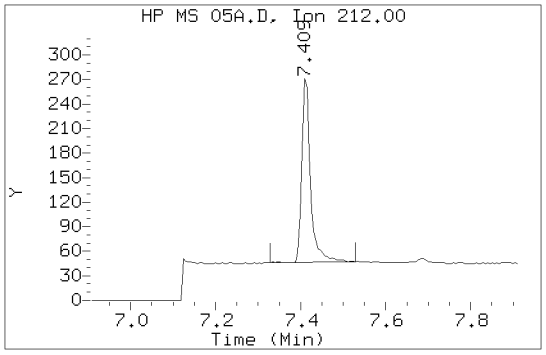
BEFORE

MASS
212
AREA
725
HEIGHT
51
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
212
AREA
318
HEIGHT
224
29-Jun-2024
14:15

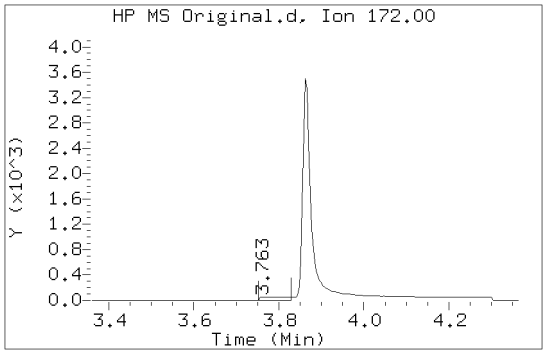


2-Fluorobiphenyl (321-60-8)

Reason Code:

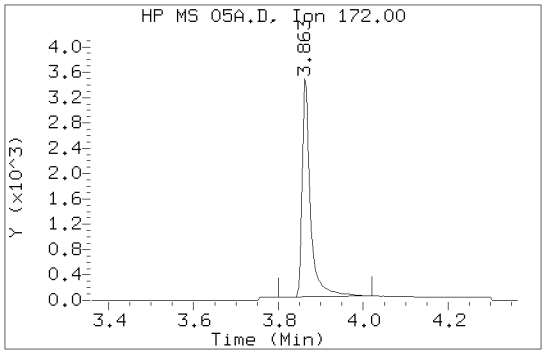
BEFORE

MASS
172
AREA
215
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
172
AREA
4598
HEIGHT
3444
29-Jun-2024
14:15



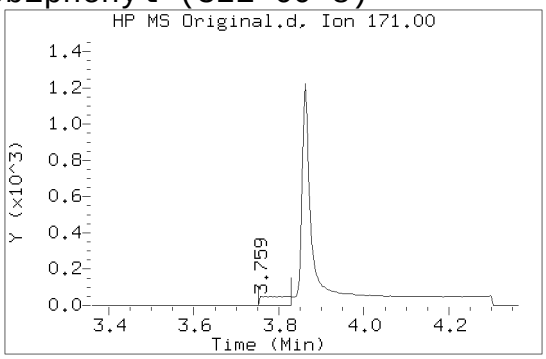
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

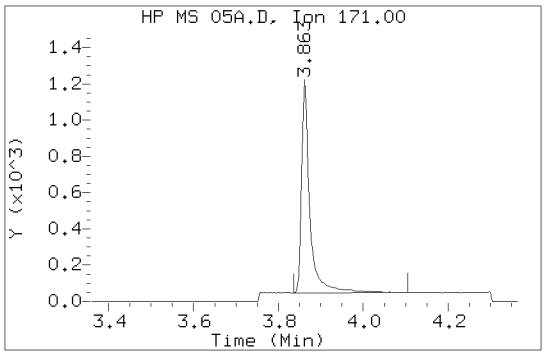
BEFORE

MASS
171
AREA
222
HEIGHT
49
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
171
AREA
1572
HEIGHT
1176
29-Jun-2024
14:15



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D Page 1
Report Date: 26-Jul-2024 08:49

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Lab Smp Id: MBLK-213834
Inj Date : 29-JUN-2024 14:58
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213834
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 08:48 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	2749	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	5842	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1101	0.06278	0.06278(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3645	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	3677	0.06599	0.06599(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	7029	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	10453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	19786	0.09292	0.09292(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	6052	0.10000	

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\240629.b\08.D

Date : 29-JUN-2024 14:58

Client ID:

Instrument: SV6.i

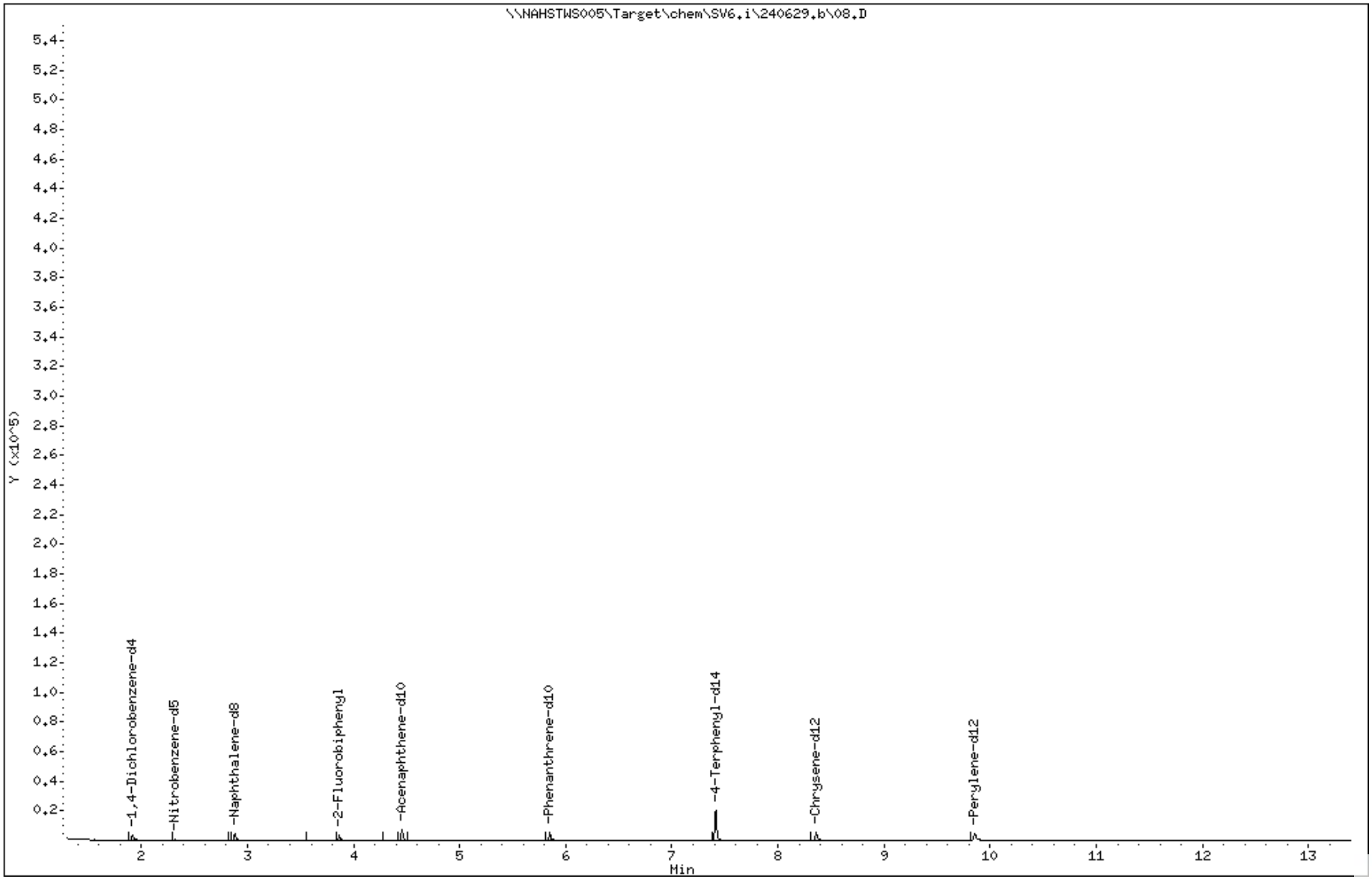
Sample Info: MBLK-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

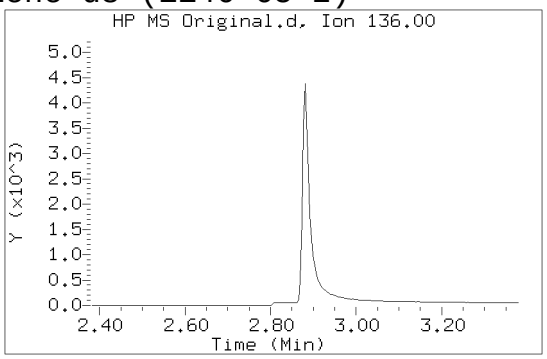


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

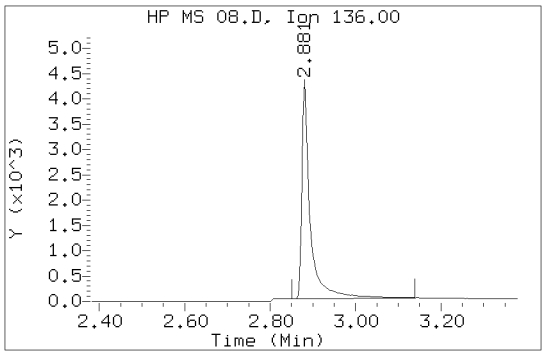
Naphthalene-d8 (1146-65-2)

Reason Code: MBA

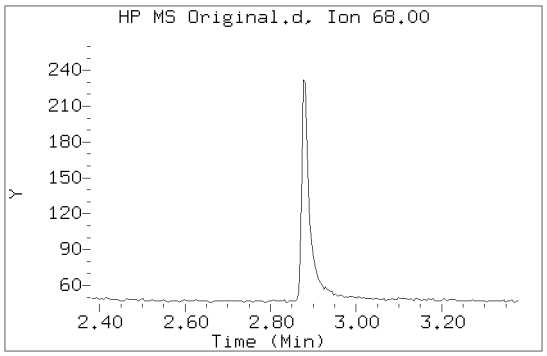
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



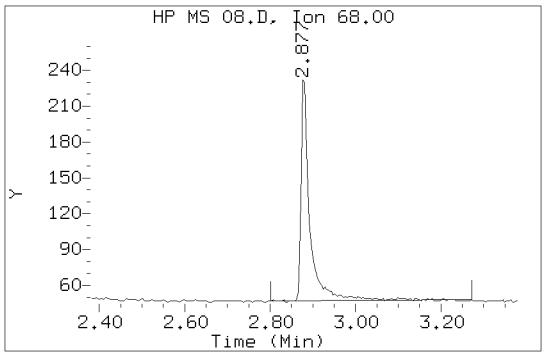
AFTER
MASS
136
AREA
5842
HEIGHT
4331
26-Jul-2024
08:49
ALSHS
S



BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



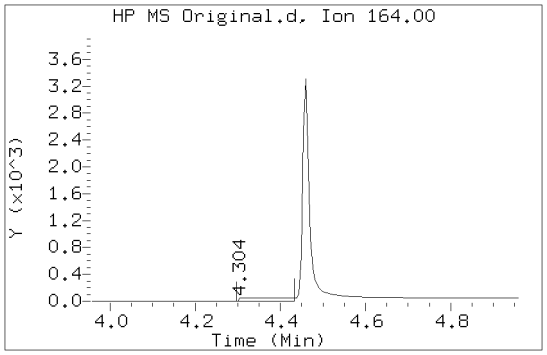
AFTER
MASS
68
AREA
261
HEIGHT
184
26-Jul-2024
08:49
ALSHS
S



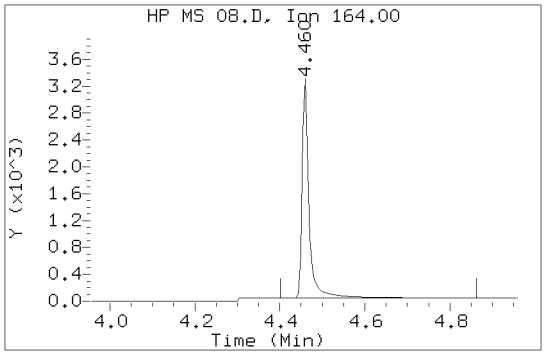
Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

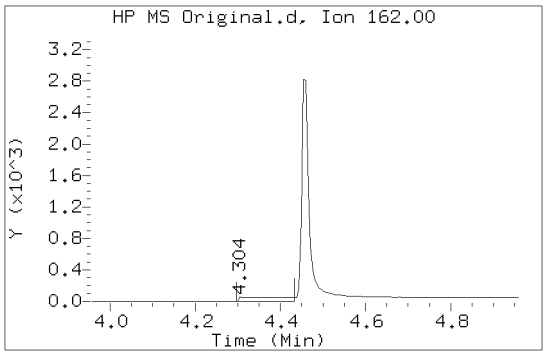
BEFORE
MASS
164
AREA
361
HEIGHT
47
29-Jun-2024
15:13
ALSHS
Server



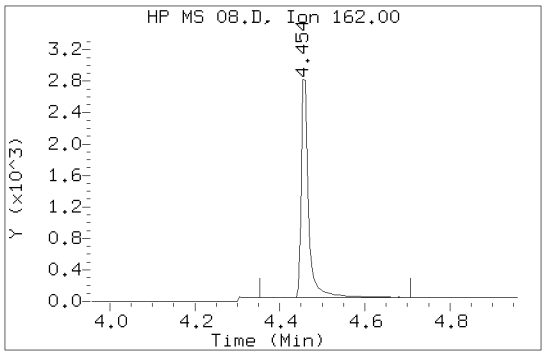
AFTER
MASS
164
AREA
3645
HEIGHT
3262
26-Jul-2024
08:49
ALSHS
S



BEFORE
MASS
162
AREA
367
HEIGHT
57
29-Jun-2024
15:13
ALSHS
Server



AFTER
MASS
162
AREA
3303
HEIGHT
2770
26-Jul-2024
08:49
ALSHS
S



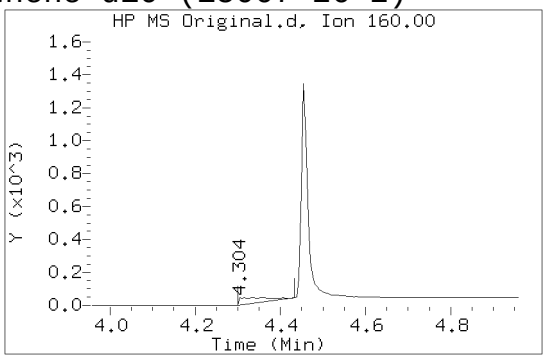
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

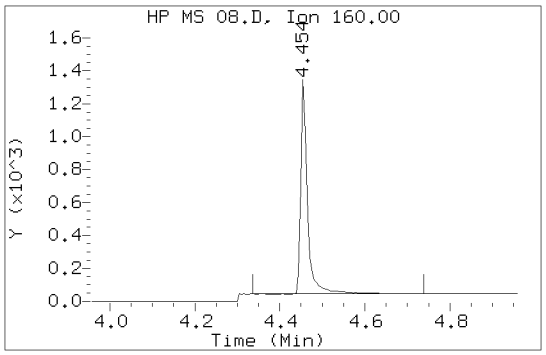
BEFORE

MASS
160
AREA
166
HEIGHT
43
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
160
AREA
1408
HEIGHT
1300
26-Jul-2024
08:49
ALSHS
S

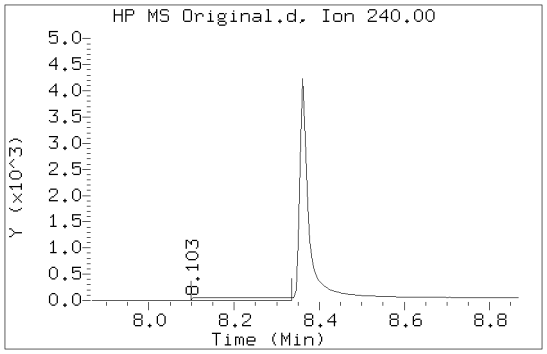


Chrysene-d12 (1719-03-5)

Reason Code: MBA

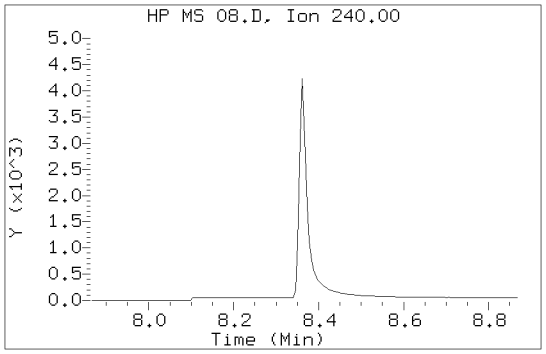
BEFORE

MASS
240
AREA
642
HEIGHT
46
29-Jun-2024
15:13
ALSHS
Server



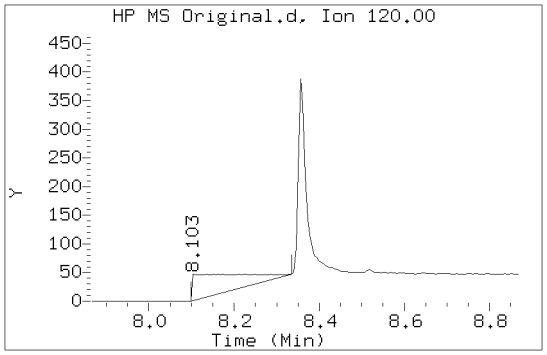
AFTER

MASS
240
AREA
10453
HEIGHT
4232
26-Jul-2024
08:49
ALSHS
S



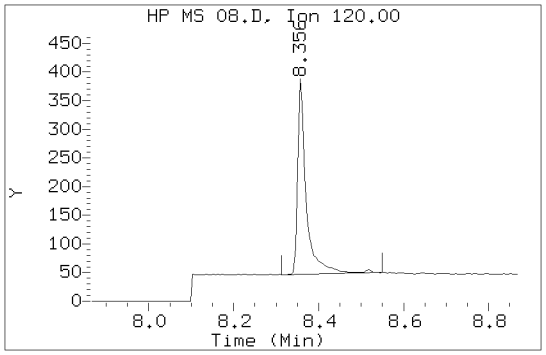
BEFORE

MASS
120
AREA
316
HEIGHT
45
29-Jun-2024
15:13
ALSHS
Server



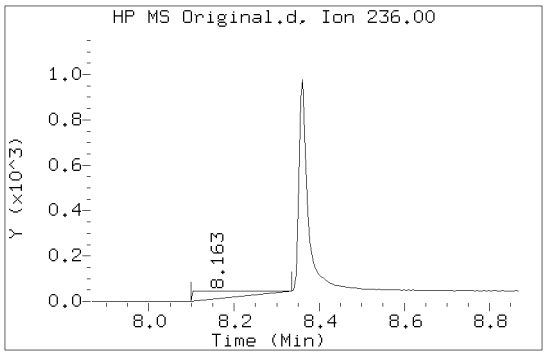
AFTER

MASS
120
AREA
479
HEIGHT
341
26-Jul-2024
08:49
ALSHS
S



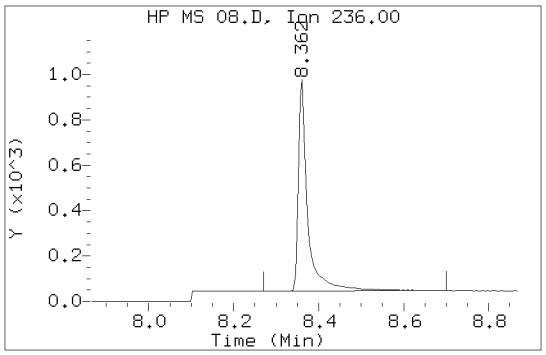
BEFORE

MASS
236
AREA
306
HEIGHT
33
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
236
AREA
1432
HEIGHT
932
26-Jul-2024
08:49
ALSHS
S



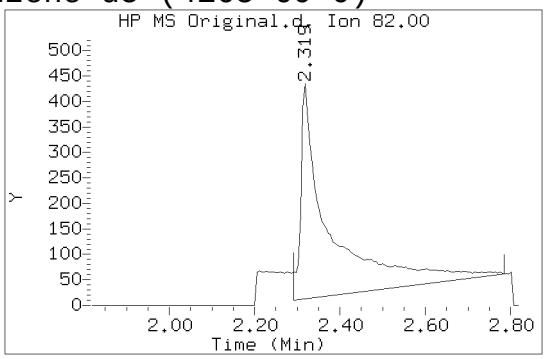
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

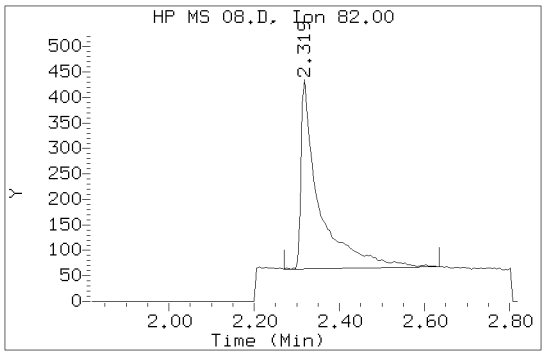
BEFORE

MASS
82
AREA
1985
HEIGHT
422
29-Jun-2024
15:13
ALSHS
Server



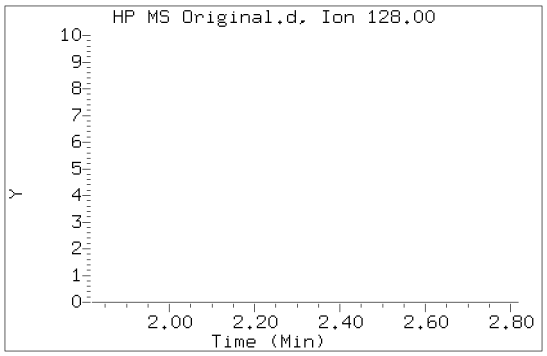
AFTER

MASS
82
AREA
1101
HEIGHT
371
26-Jul-2024
08:49
ALSHS
S



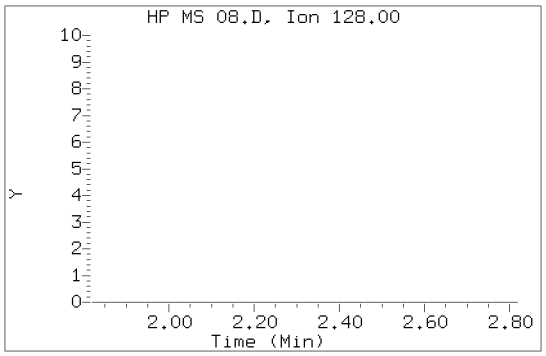
BEFORE

MASS
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AREA
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HEIGHT
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29-Jun-2024
15:13
ALSHS
Server



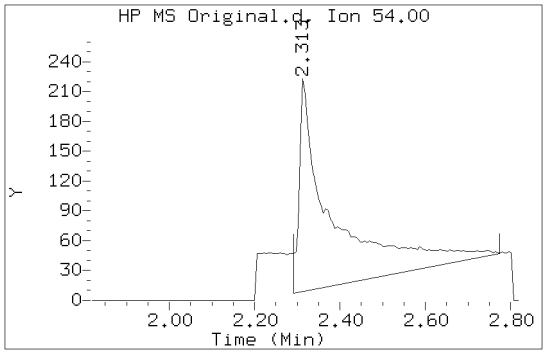
AFTER

MASS
128
AREA
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HEIGHT
0
26-Jul-2024
08:49
ALSHS
S



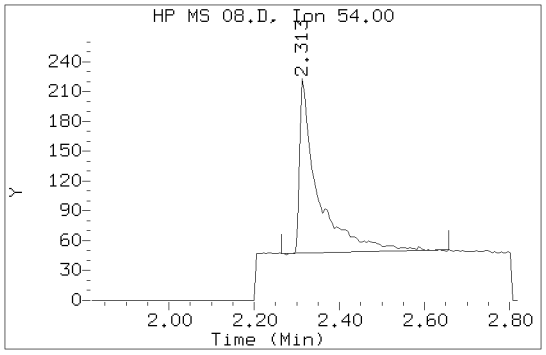
BEFORE

MASS
54
AREA
1168
HEIGHT
214
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
54
AREA
518
HEIGHT
175
26-Jul-2024
08:49
ALSHS
S

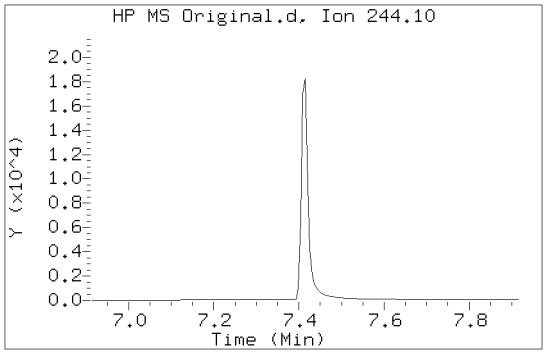


4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

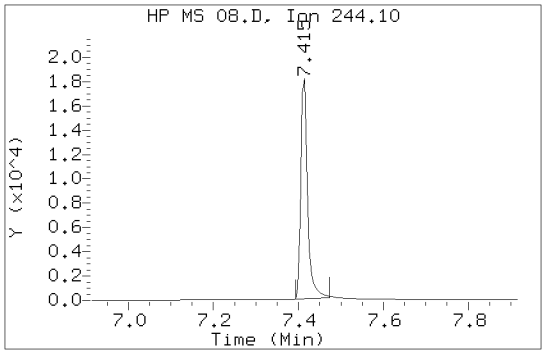
BEFORE

MASS
244.1
AREA
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HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
244.1
AREA
19786
HEIGHT
18099
26-Jul-2024
08:49
ALSHS
S



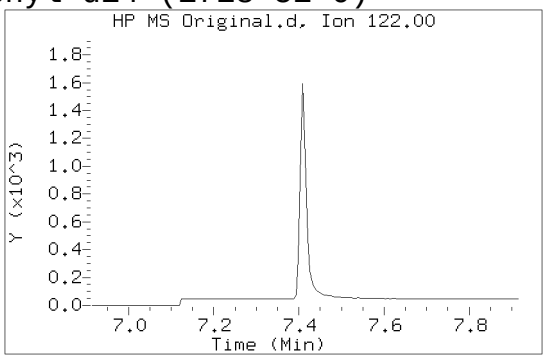
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\08.D
Inj Date : 29-JUN-2024 14:58
InstruID : SV6.i
LabSampID : MBLK-213834

4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

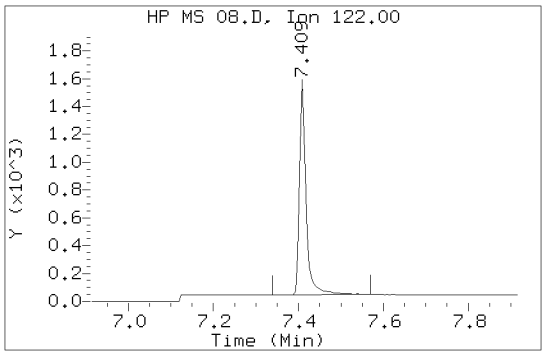
BEFORE

MASS
122
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



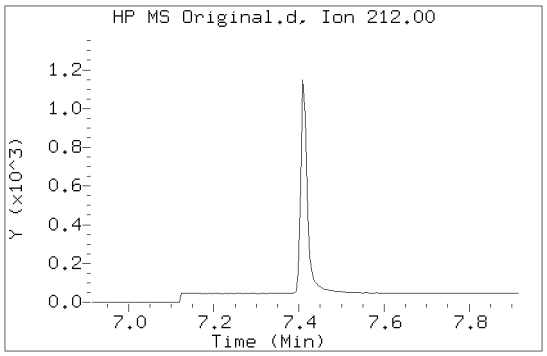
AFTER

MASS
122
AREA
1651
HEIGHT
1546
26-Jul-2024
08:49
ALSHS
S



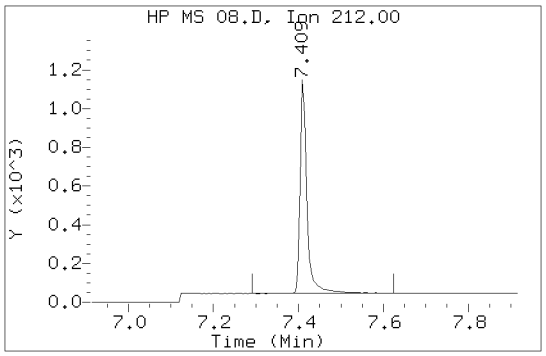
BEFORE

MASS
212
AREA
0
HEIGHT
0
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
212
AREA
1220
HEIGHT
1102
26-Jul-2024
08:49
ALSHS
S

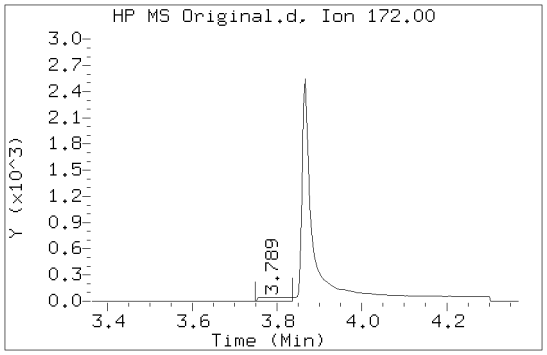


2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

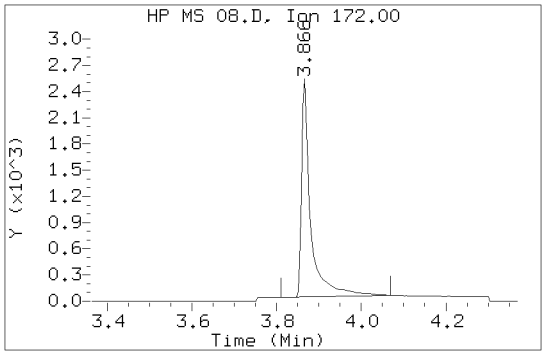
BEFORE

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AREA
224
HEIGHT
45
29-Jun-2024
15:13
ALSHS
Server



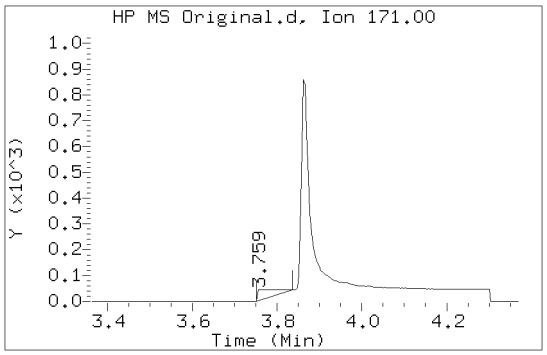
AFTER

MASS
172
AREA
3677
HEIGHT
2497
26-Jul-2024
08:49
ALSHS
S



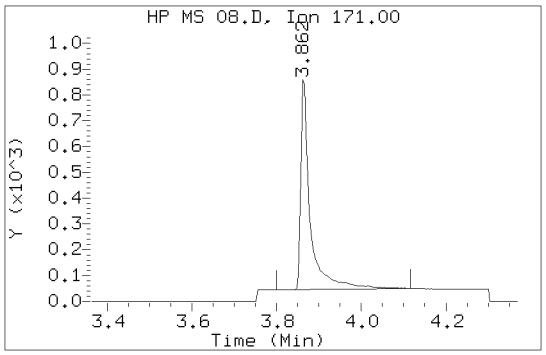
BEFORE

MASS
171
AREA
105
HEIGHT
41
29-Jun-2024
15:13
ALSHS
Server



AFTER

MASS
171
AREA
1255
HEIGHT
813
26-Jul-2024
08:49
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D Page 1
Report Date: 01-Jul-2024 16:22

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Lab Smp Id: LCS-213834
Inj Date : 29-JUN-2024 15:15
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213834
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.916	1.916	(1.000)	1438	0.10000	(aM)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	4462	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	862	0.06435	0.06435(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	2780	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2471	0.05815	0.05814(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	5492	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	4776	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	4458	0.04582	0.04582(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	4771	0.10000	
1 1,4-Dioxane	58	0.731	0.719	(0.382)	189	0.06136	0.06136(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\240629.b\09.D

Date : 29-JUN-2024 15:15

Client ID:

Instrument: SV6.i

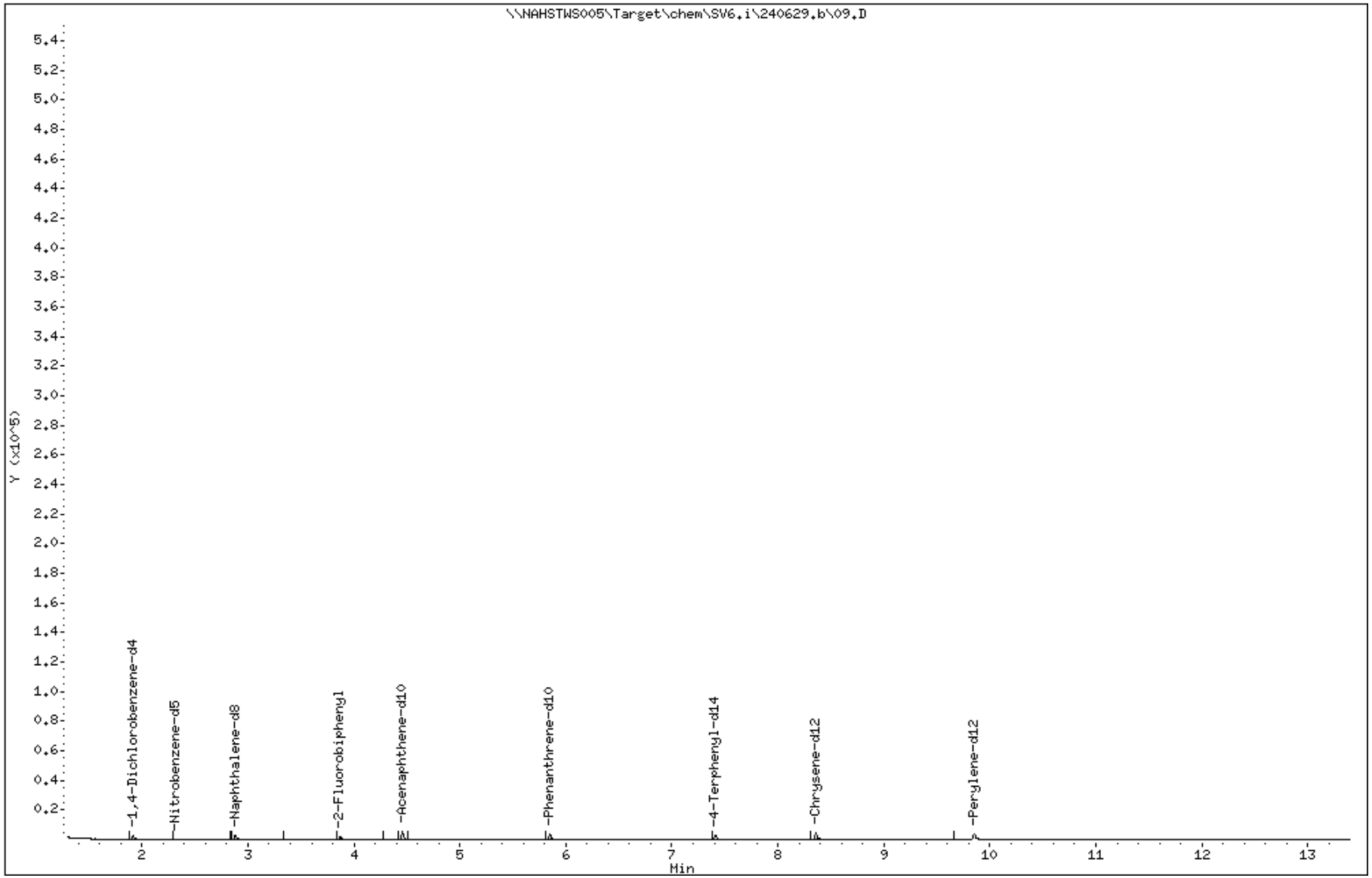
Sample Info: LCS-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



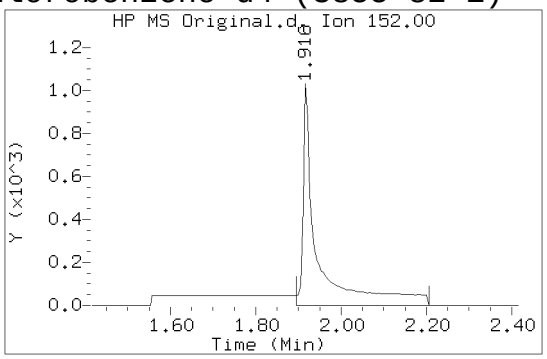
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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code: MBA

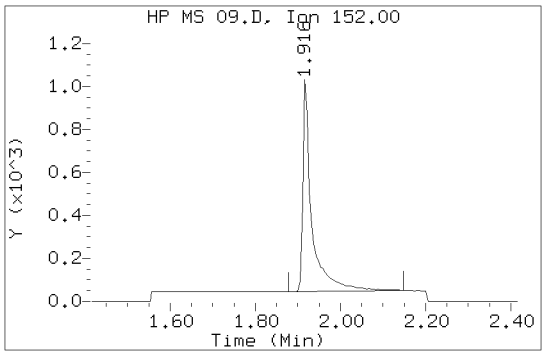
BEFORE

MASS
152
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HEIGHT
1032
29-Jun-2024
15:29
ALSHS
Server



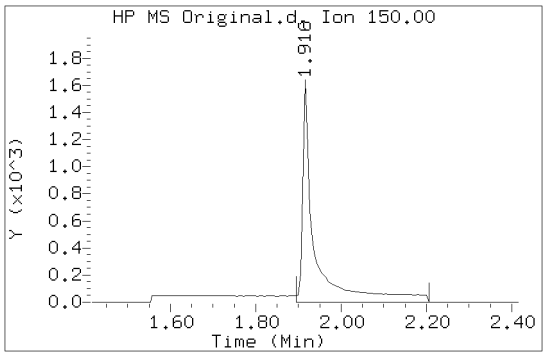
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HEIGHT
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01-Jul-2024
16:22



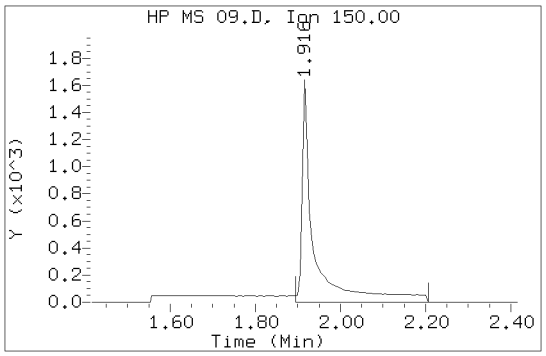
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29-Jun-2024
15:29
ALSHS
Server



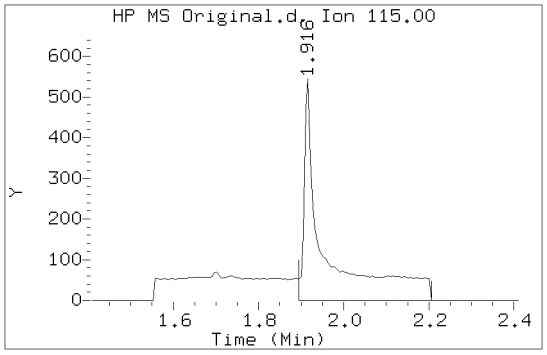
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AREA
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HEIGHT
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01-Jul-2024
16:22



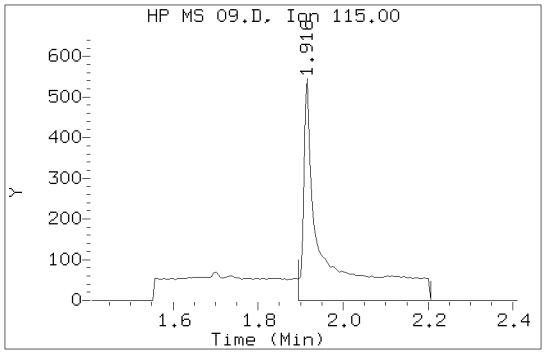
BEFORE

MASS
115
AREA
1740
HEIGHT
545
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
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AREA
1740
HEIGHT
545
01-Jul-2024
16:22

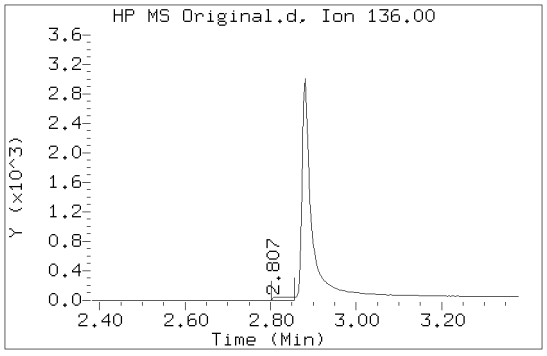


Naphthalene-d8 (1146-65-2)

Reason Code:

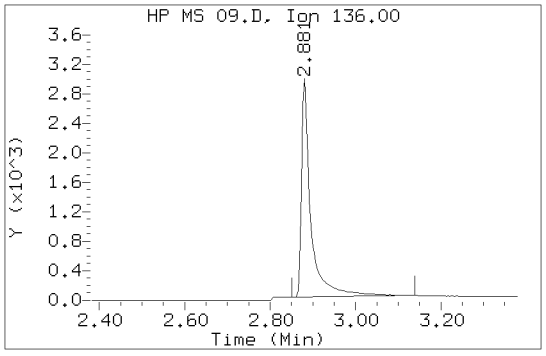
BEFORE

MASS
136
AREA
144
HEIGHT
46
29-Jun-2024
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ALSHS
Server



AFTER

MASS
136
AREA
4462
HEIGHT
2956
01-Jul-2024
16:22



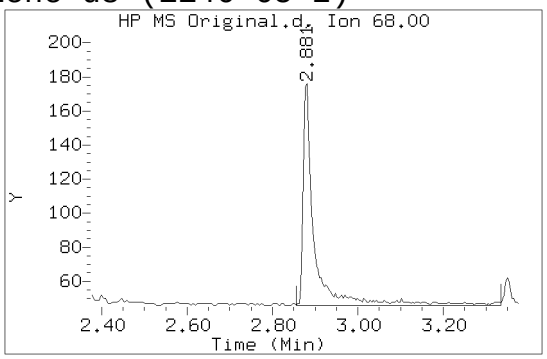
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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

Naphthalene-d8 (1146-65-2)

Reason Code:

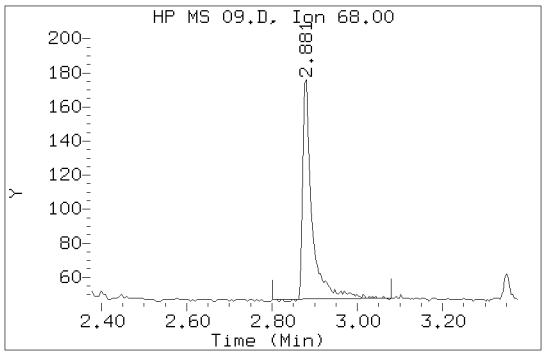
BEFORE

MASS
68
AREA
237
HEIGHT
130
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
68
AREA
193
HEIGHT
128
01-Jul-2024
16:22

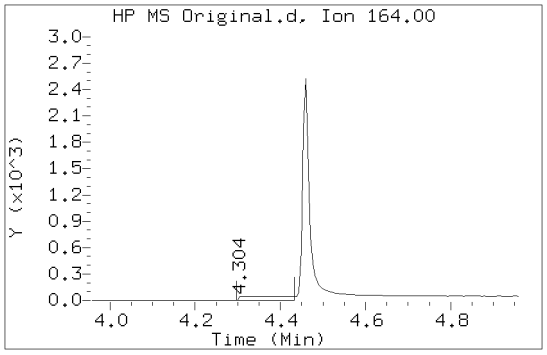


Acenaphthene-d10 (15067-26-2)

Reason Code:

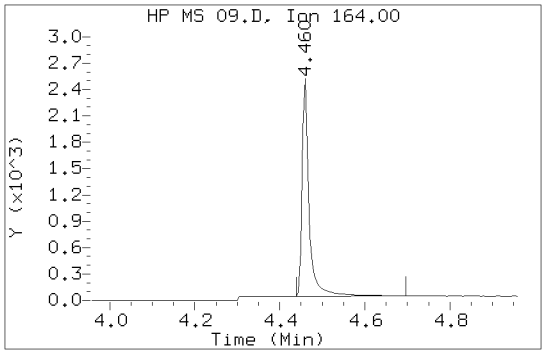
BEFORE

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AREA
358
HEIGHT
46
29-Jun-2024
15:29
ALSHS
Server



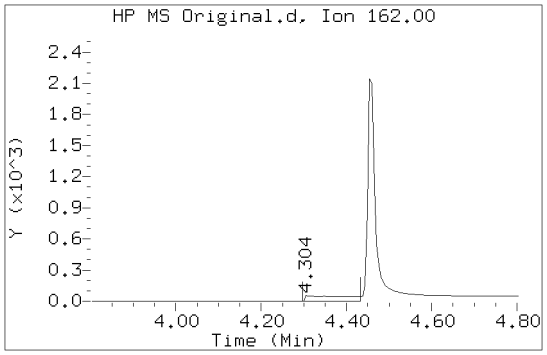
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2475
01-Jul-2024
16:22



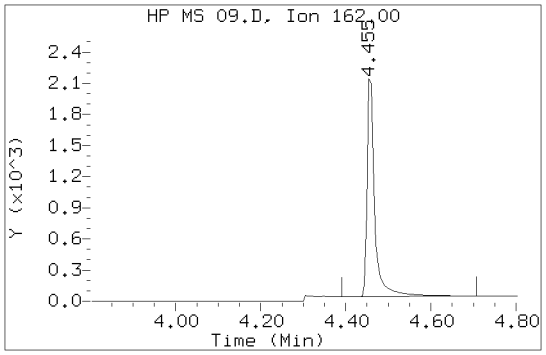
BEFORE

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AREA
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HEIGHT
56
29-Jun-2024
15:29
ALSHS
Server



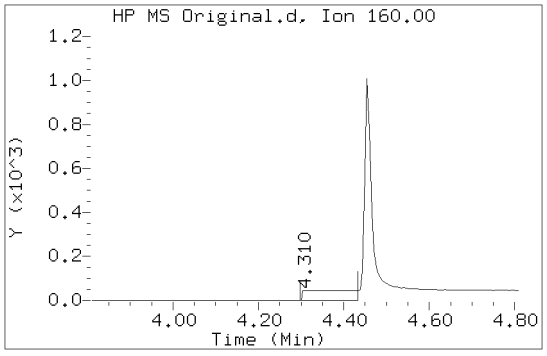
AFTER

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AREA
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HEIGHT
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01-Jul-2024
16:22



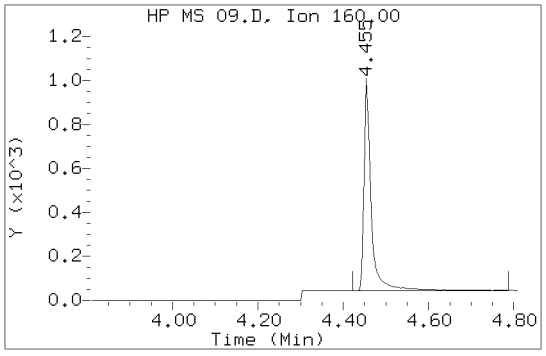
BEFORE

MASS
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AREA
346
HEIGHT
45
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
160
AREA
1114
HEIGHT
963
01-Jul-2024
16:22



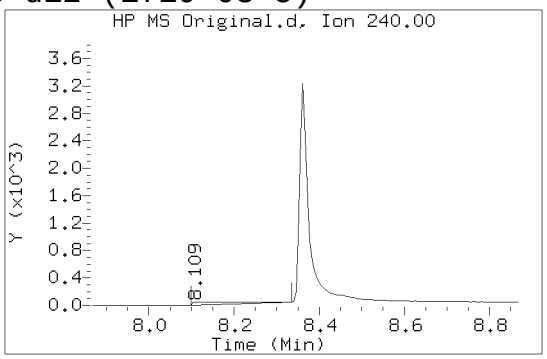
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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

Chrysene-d12 (1719-03-5)

Reason Code:

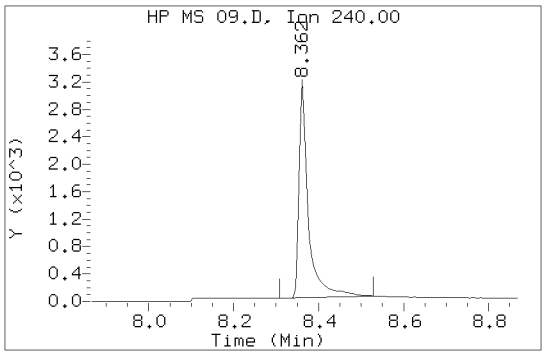
BEFORE

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AREA
303
HEIGHT
42
29-Jun-2024
15:29
ALSHS
Server



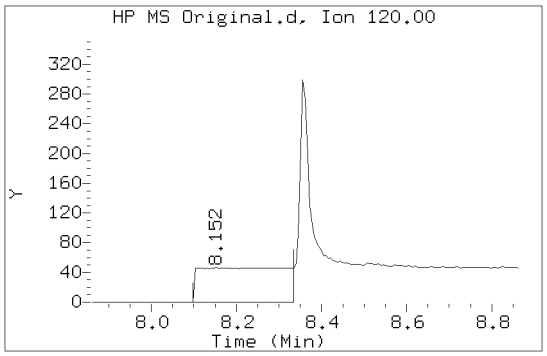
AFTER

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AREA
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HEIGHT
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01-Jul-2024
16:22



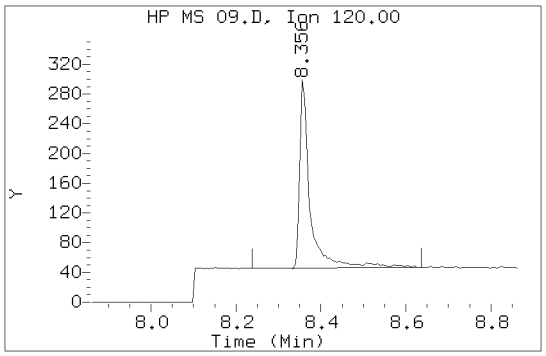
BEFORE

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AREA
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29-Jun-2024
15:29
ALSHS
Server



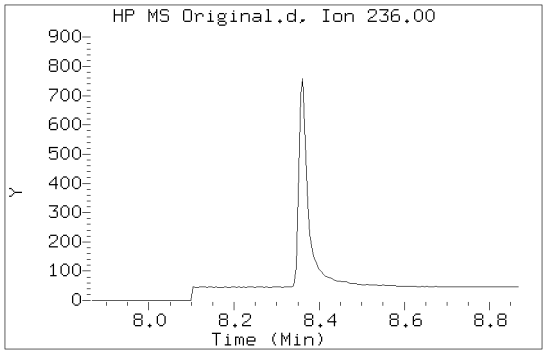
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AREA
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HEIGHT
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01-Jul-2024
16:22



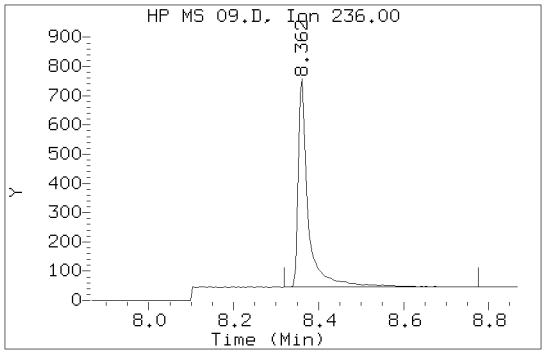
BEFORE

MASS
236
AREA
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HEIGHT
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29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
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AREA
1176
HEIGHT
712
01-Jul-2024
16:22

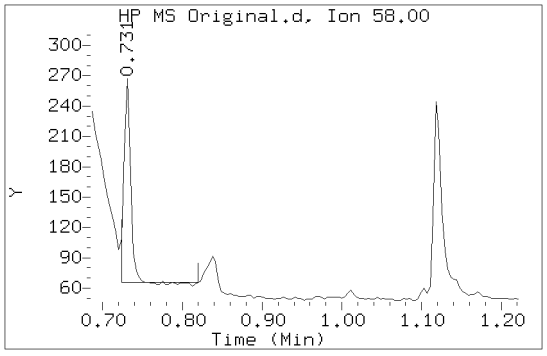


1,4-Dioxane ()

Reason Code:

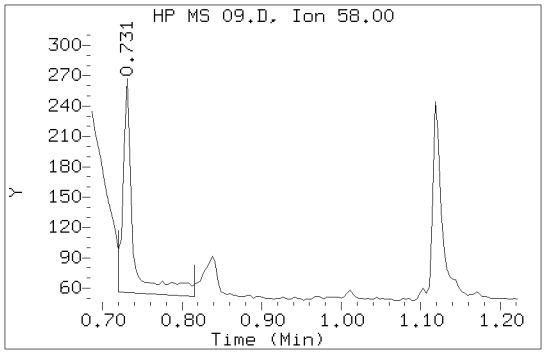
BEFORE

MASS
58
AREA
111
HEIGHT
201
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
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AREA
189
HEIGHT
211
01-Jul-2024
16:22



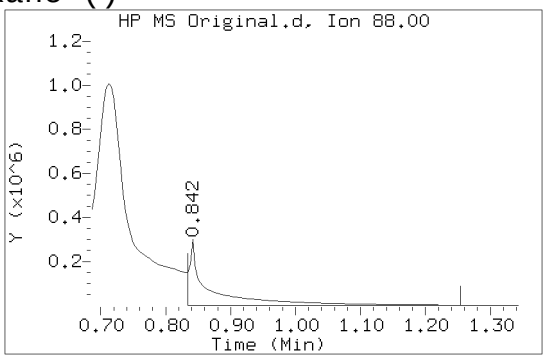
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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

1,4-Dioxane ()

Reason Code:

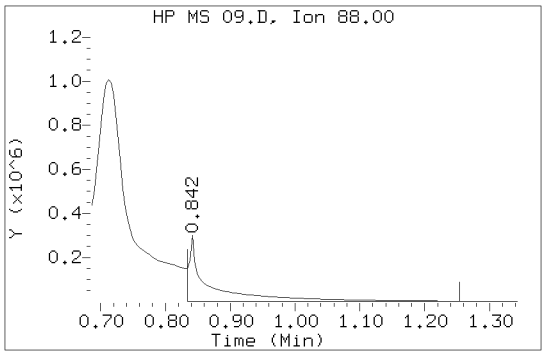
BEFORE

MASS
88
AREA
606865
HEIGHT
297844
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
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AREA
606865
HEIGHT
297844
01-Jul-2024
16:22

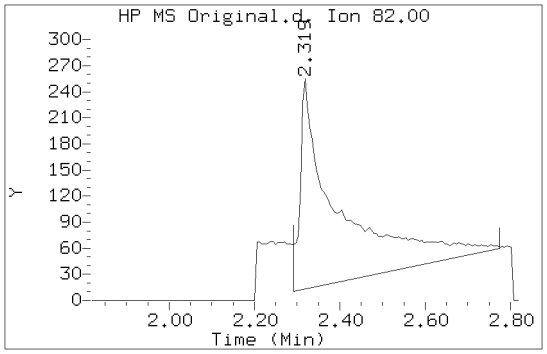


Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

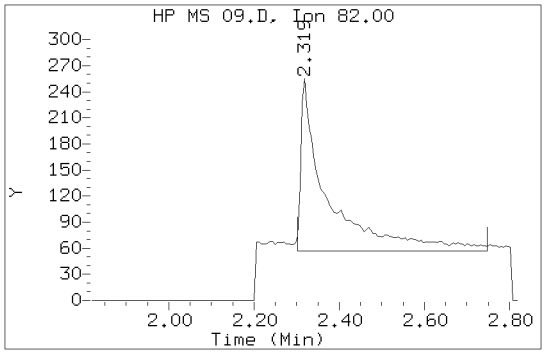
BEFORE

MASS
82
AREA
1521
HEIGHT
242
29-Jun-2024
15:29
ALSHS
Server



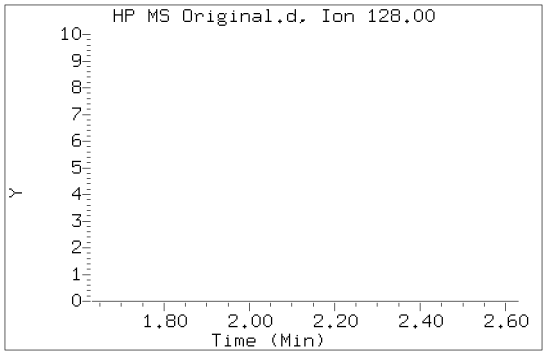
AFTER

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AREA
862
HEIGHT
198
01-Jul-2024
16:22



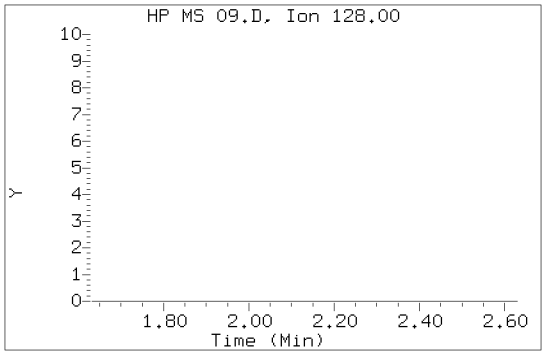
BEFORE

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128
AREA
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HEIGHT
0
29-Jun-2024
15:29
ALSHS
Server



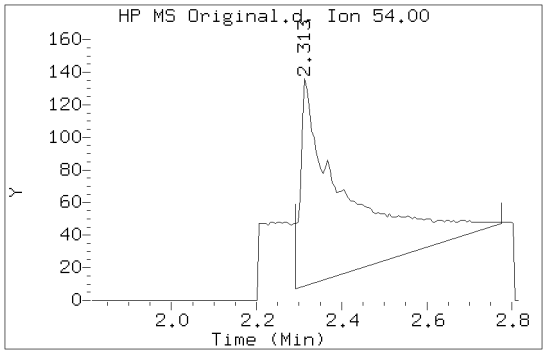
AFTER

MASS
128
AREA
0
HEIGHT
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01-Jul-2024
16:22



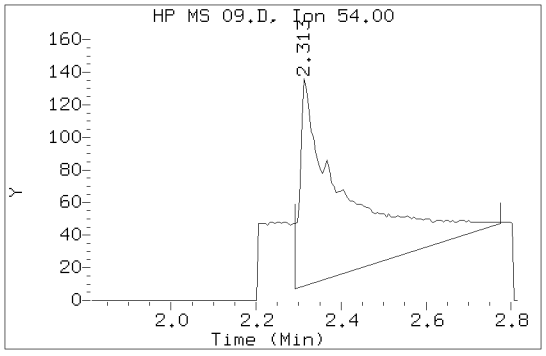
BEFORE

MASS
54
AREA
946
HEIGHT
127
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
54
AREA
946
HEIGHT
127
01-Jul-2024
16:22



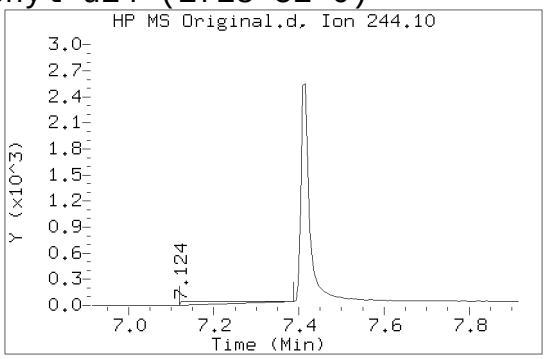
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Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

4-Terphenyl-d14 (1718-51-0)

Reason Code:

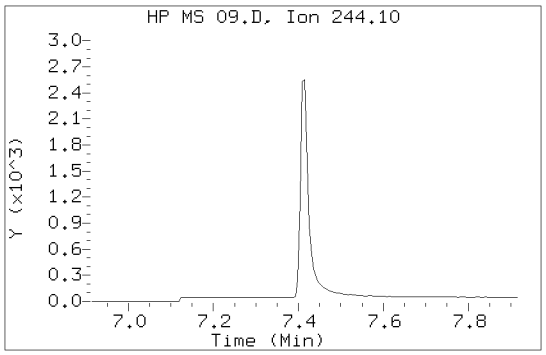
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AREA
347
HEIGHT
43
29-Jun-2024
15:29
ALSHS
Server



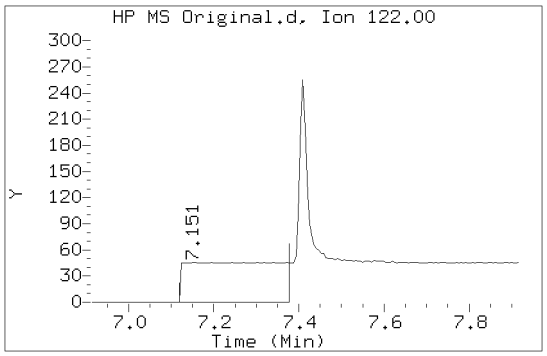
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AREA
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HEIGHT
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01-Jul-2024
16:22



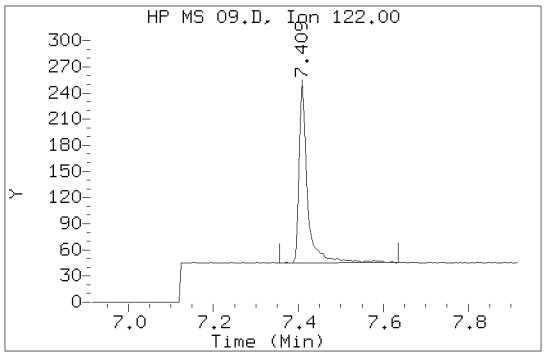
BEFORE

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AREA
700
HEIGHT
46
29-Jun-2024
15:29
ALSHS
Server



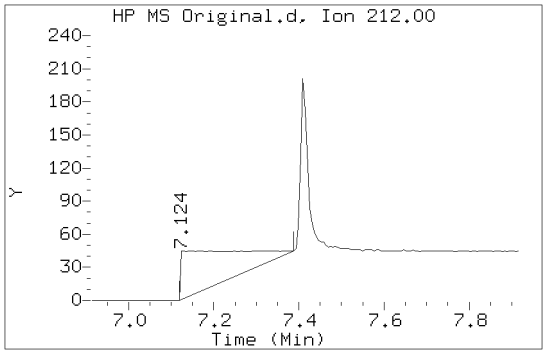
AFTER

MASS
122
AREA
281
HEIGHT
209
01-Jul-2024
16:22



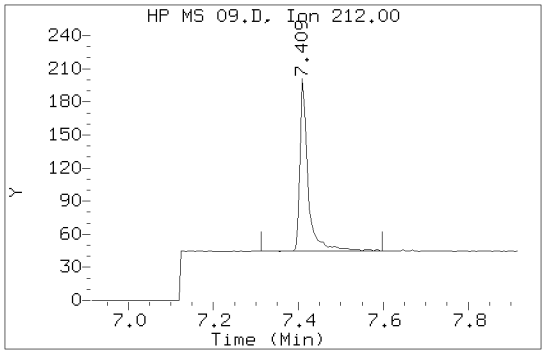
BEFORE

MASS
212
AREA
349
HEIGHT
44
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
212
AREA
203
HEIGHT
156
01-Jul-2024
16:22

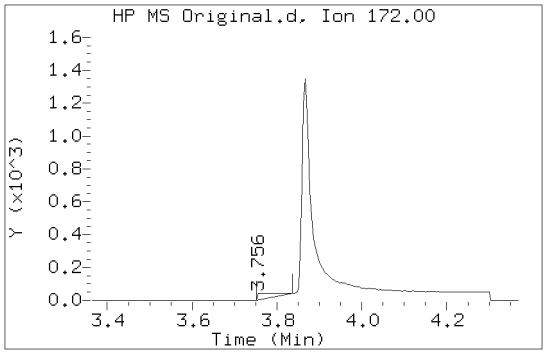


2-Fluorobiphenyl (321-60-8)

Reason Code:

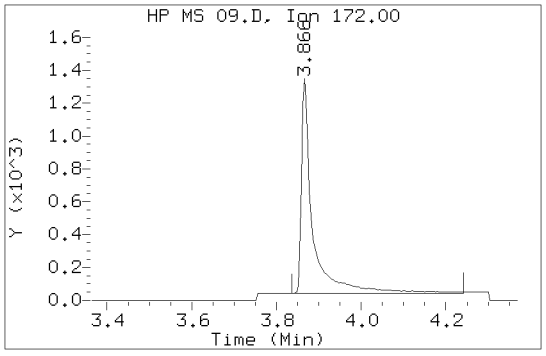
BEFORE

MASS
172
AREA
106
HEIGHT
42
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
172
AREA
2471
HEIGHT
1308
01-Jul-2024
16:22



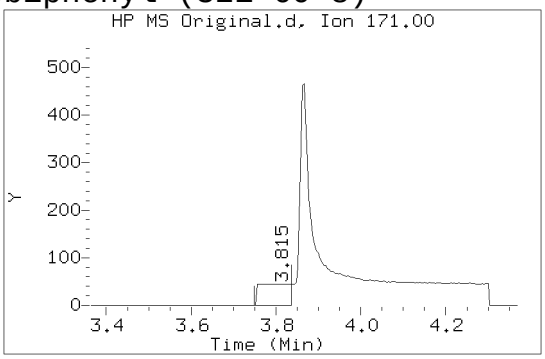
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\09.D
Inj Date : 29-JUN-2024 15:15
InstruID : SV6.i
LabSampID : LCS-213834

2-Fluorobiphenyl (321-60-8)

Reason Code:

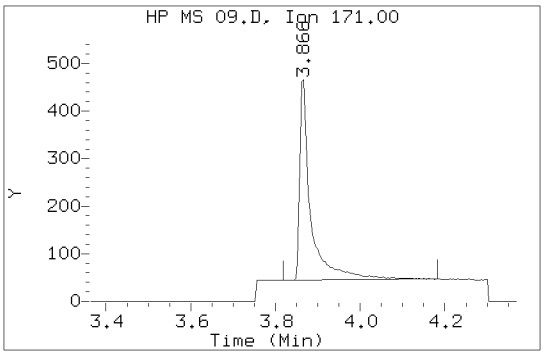
BEFORE

MASS
171
AREA
223
HEIGHT
45
29-Jun-2024
15:29
ALSHS
Server



AFTER

MASS
171
AREA
763
HEIGHT
421
01-Jul-2024
16:22



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D Page 1
Report Date: 01-Jul-2024 16:23

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Lab Smp Id: LCSD-213834
Inj Date : 29-JUN-2024 15:33
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213834
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	1848	0.10000	(aM)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	6548	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1233	0.06272	0.06272(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3928	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	3218	0.05359	0.05359(M)
* 126 Phenanthrene-d10	188	5.850	5.855	(1.000)	7748	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	7330	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.409	7.414	(0.886)	5114	0.03425	0.03425(M)
* 198 Perylene-d12	264	9.851	9.861	(1.000)	7279	0.10000	
1 1,4-Dioxane	58	0.764	0.719	(0.398)	251	0.06341	0.06341(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\240629.b\10.D

Date : 29-JUN-2024 15:33

Client ID:

Instrument: SV6.i

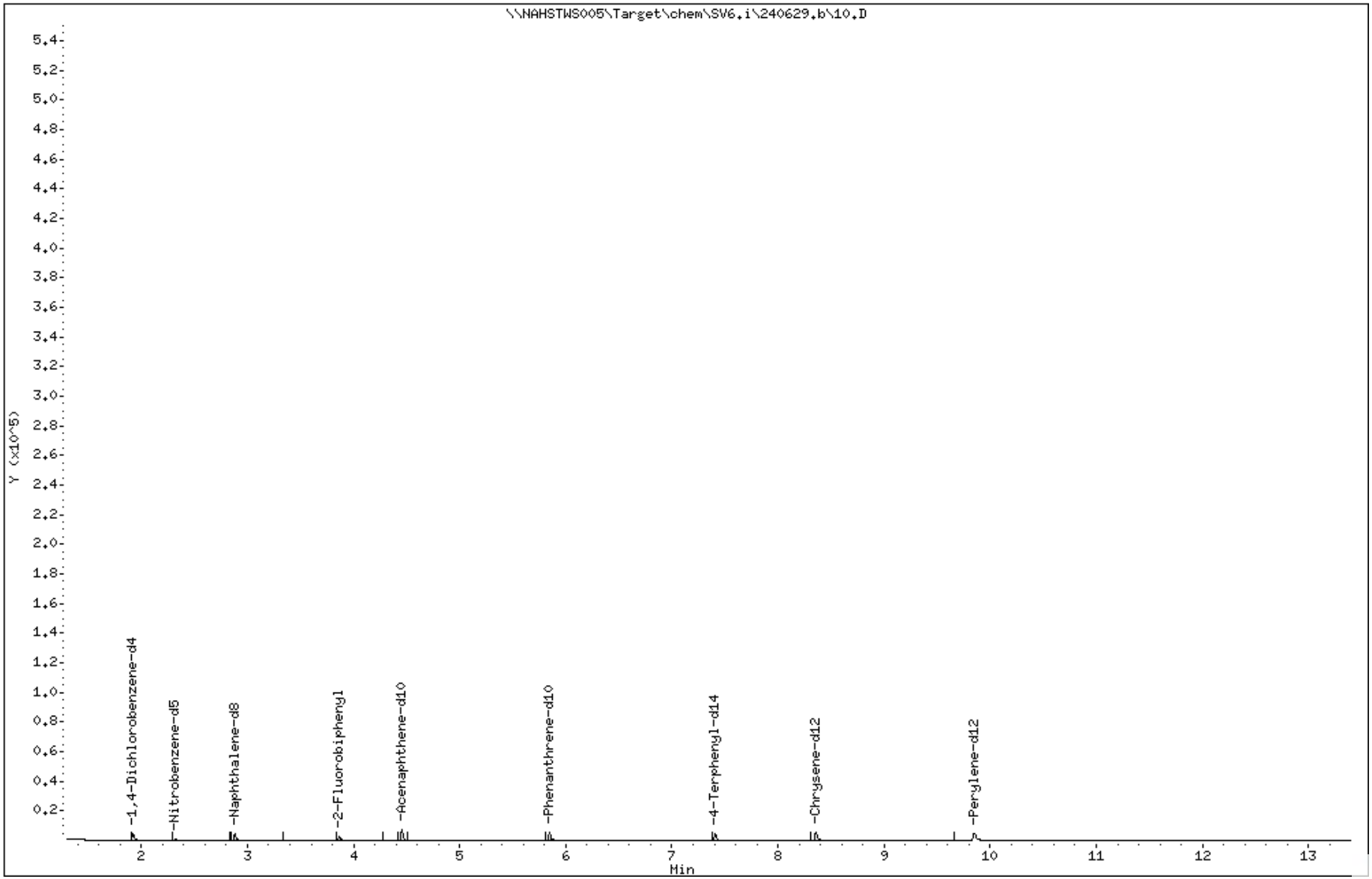
Sample Info: LCSD-213834

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

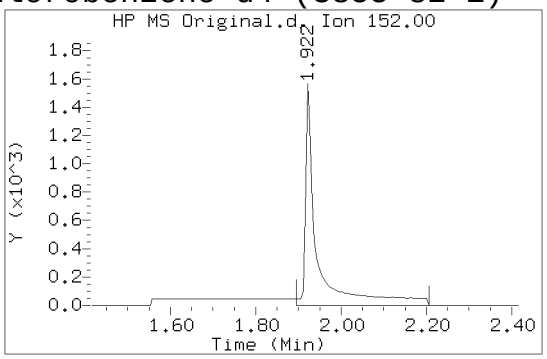


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

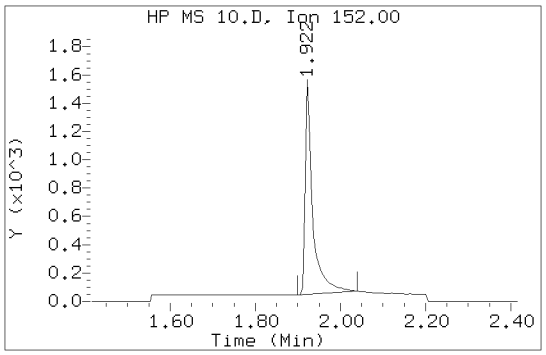
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

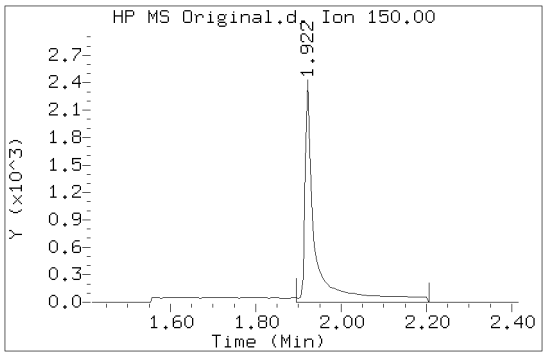
BEFORE
MASS
152
AREA
2925
HEIGHT
1566
29-Jun-2024
15:48
ALSHS
Server



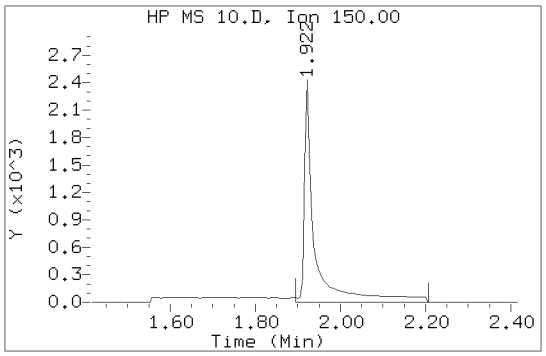
AFTER
MASS
152
AREA
1848
HEIGHT
1516
01-Jul-2024
16:23



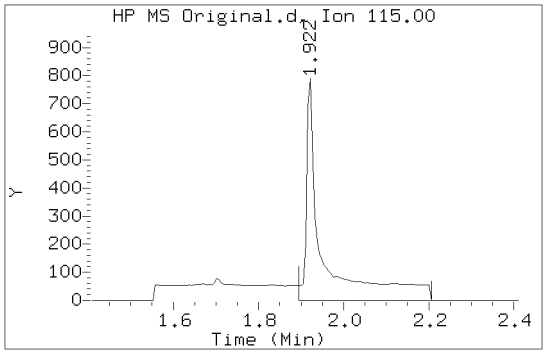
BEFORE
MASS
150
AREA
4106
HEIGHT
2430
29-Jun-2024
15:48
ALSHS
Server



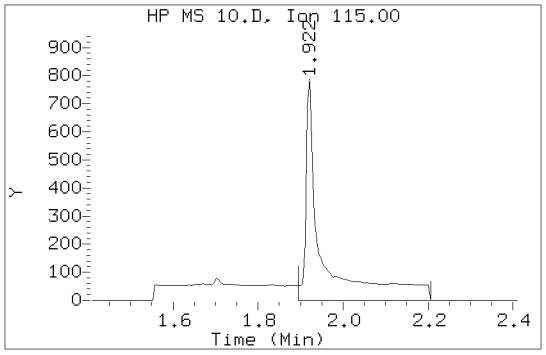
AFTER
MASS
150
AREA
4106
HEIGHT
2430
01-Jul-2024
16:23



BEFORE
MASS
115
AREA
2027
HEIGHT
789
29-Jun-2024
15:48
ALSHS
Server



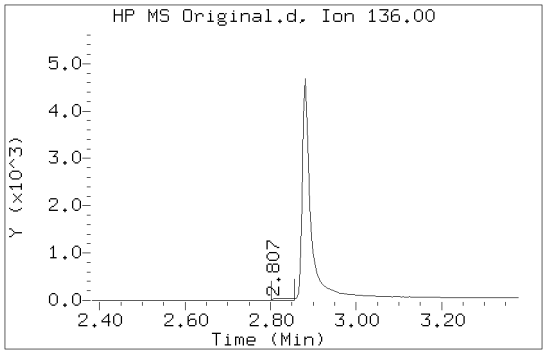
AFTER
MASS
115
AREA
2027
HEIGHT
789
01-Jul-2024
16:23



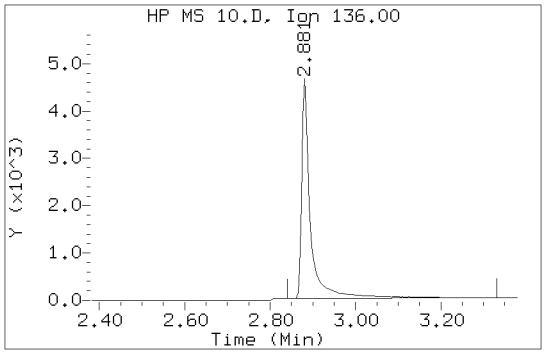
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
143
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server



AFTER
MASS
136
AREA
6548
HEIGHT
4637
01-Jul-2024
16:23



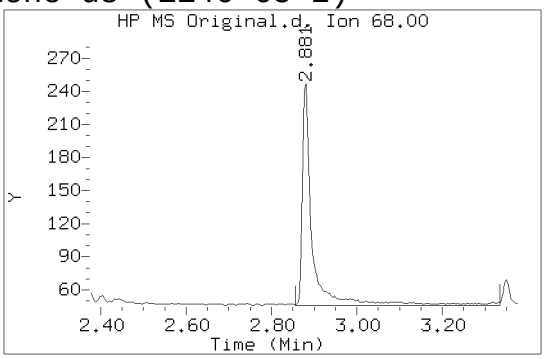
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

Naphthalene-d8 (1146-65-2)

Reason Code:

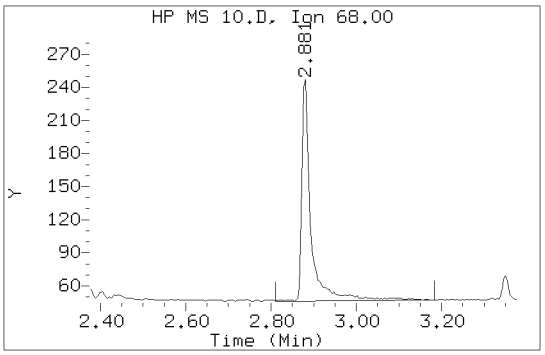
BEFORE

MASS
68
AREA
329
HEIGHT
201
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
68
AREA
305
HEIGHT
200
01-Jul-2024
16:23

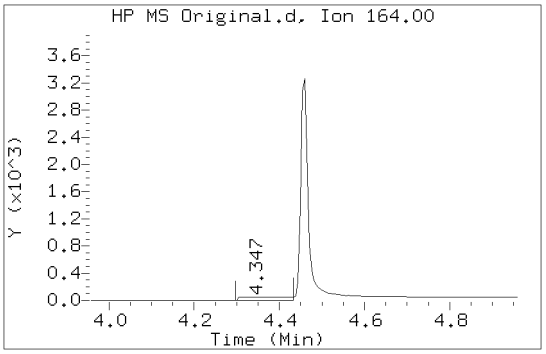


Acenaphthene-d10 (15067-26-2)

Reason Code:

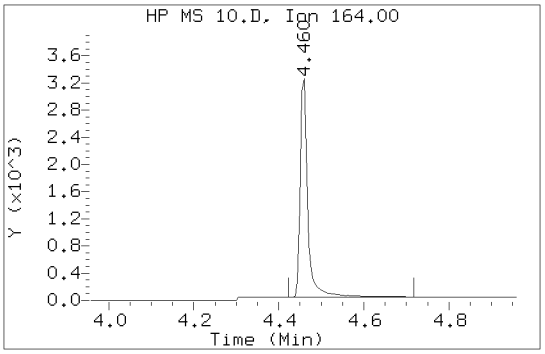
BEFORE

MASS
164
AREA
360
HEIGHT
47
29-Jun-2024
15:48
ALSHS
Server



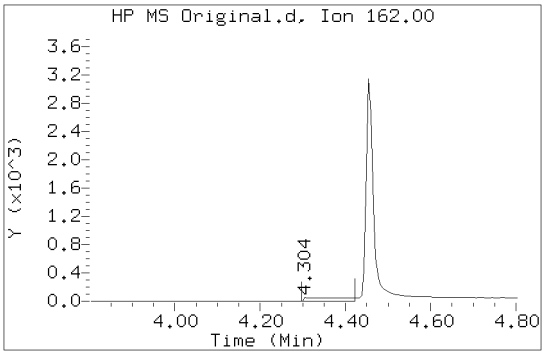
AFTER

MASS
164
AREA
3928
HEIGHT
3215
01-Jul-2024
16:23



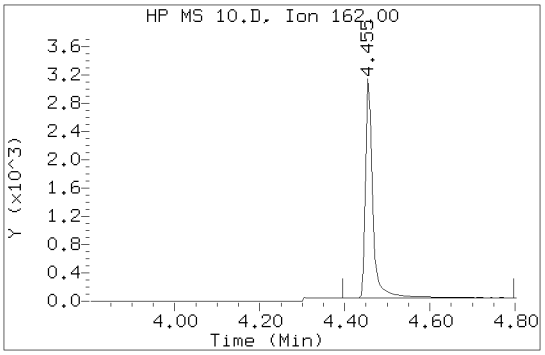
BEFORE

MASS
162
AREA
333
HEIGHT
52
29-Jun-2024
15:48
ALSHS
Server



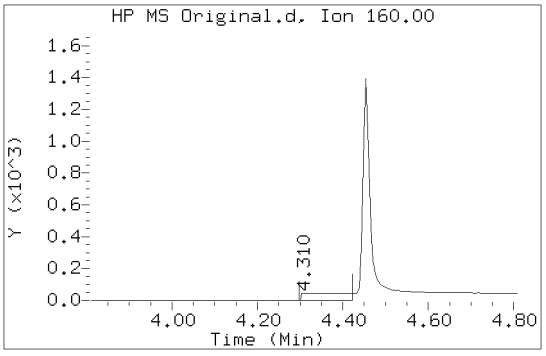
AFTER

MASS
162
AREA
3685
HEIGHT
3094
01-Jul-2024
16:23



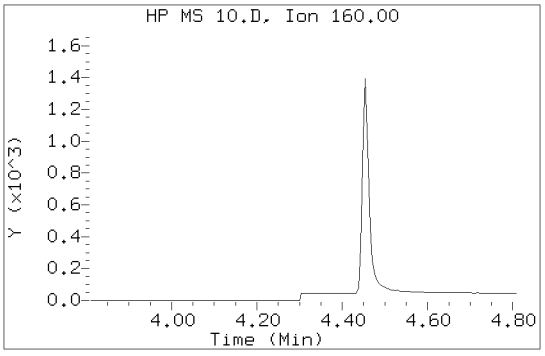
BEFORE

MASS
160
AREA
319
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
160
AREA
1563
HEIGHT
1348
01-Jul-2024
16:23



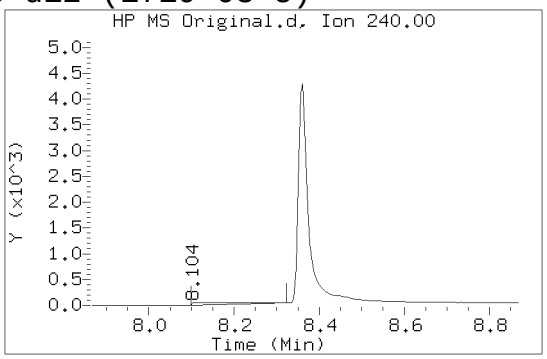
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

Chrysene-d12 (1719-03-5)

Reason Code:

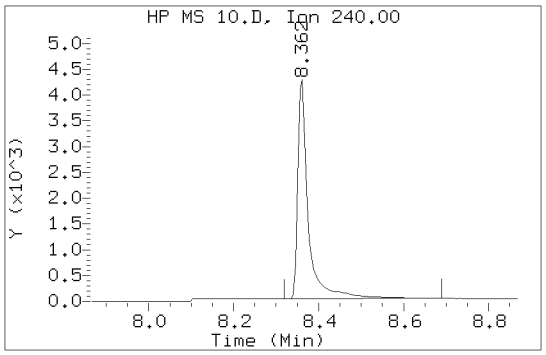
BEFORE

MASS
240
AREA
290
HEIGHT
43
29-Jun-2024
15:48
ALSHS
Server



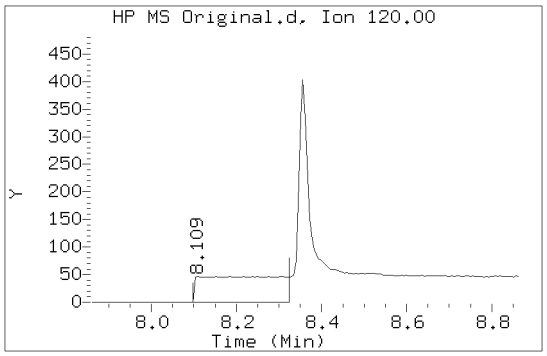
AFTER

MASS
240
AREA
7330
HEIGHT
4251
01-Jul-2024
16:23



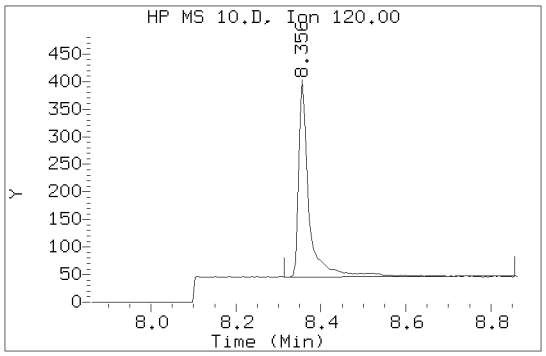
BEFORE

MASS
120
AREA
626
HEIGHT
47
29-Jun-2024
15:48
ALSHS
Server



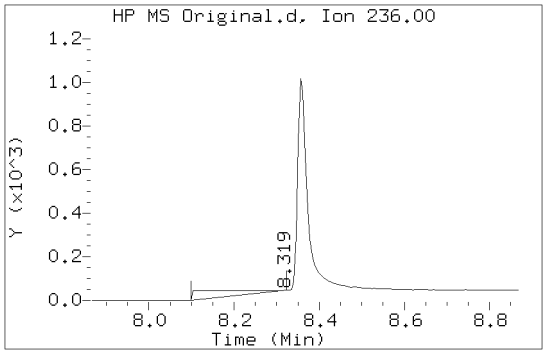
AFTER

MASS
120
AREA
591
HEIGHT
356
01-Jul-2024
16:23



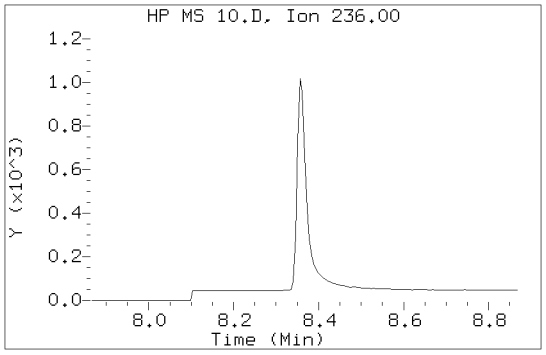
BEFORE

MASS
236
AREA
288
HEIGHT
1
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
236
AREA
1698
HEIGHT
971
01-Jul-2024
16:23

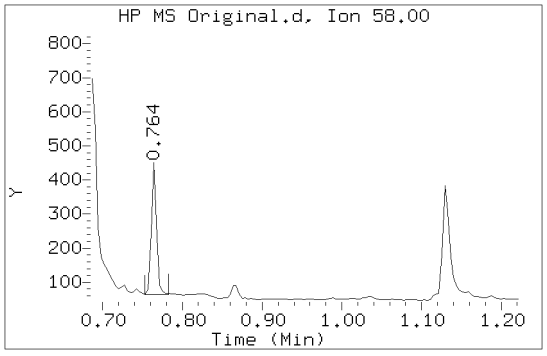


1,4-Dioxane ()

Reason Code:

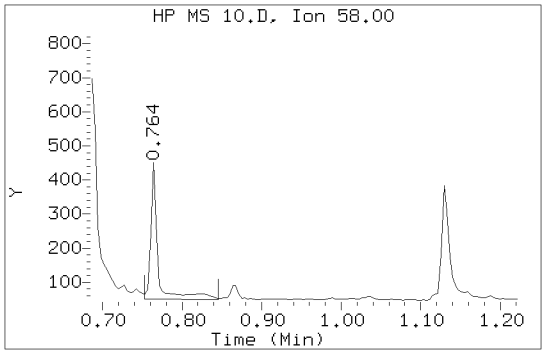
BEFORE

MASS
58
AREA
176
HEIGHT
388
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
58
AREA
251
HEIGHT
401
01-Jul-2024
16:23



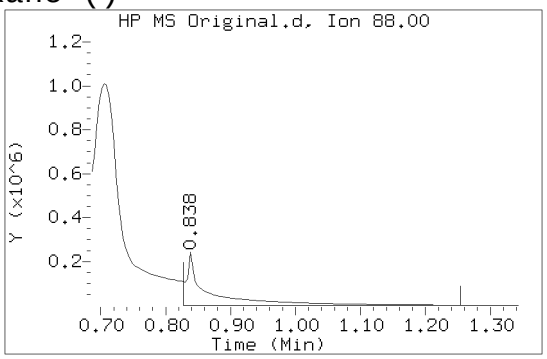
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

1,4-Dioxane ()

Reason Code:

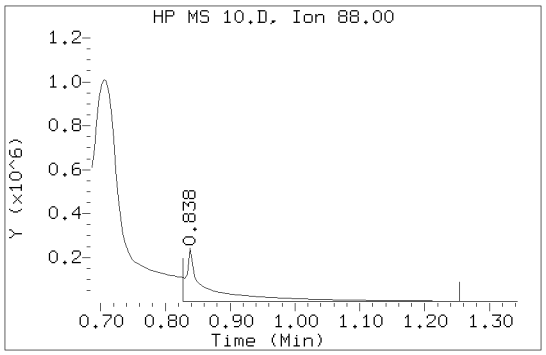
BEFORE

MASS
88
AREA
534655
HEIGHT
242773
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
88
AREA
534655
HEIGHT
242773
01-Jul-2024
16:23

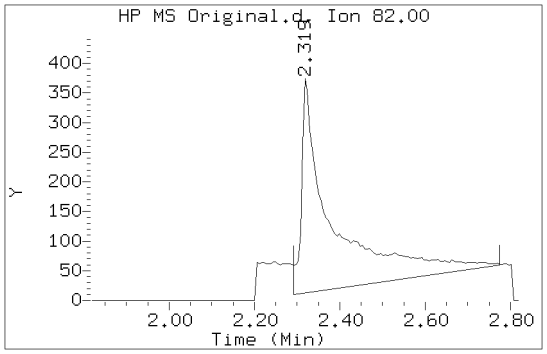


Nitrobenzene-d5 (4165-60-0)

Reason Code:

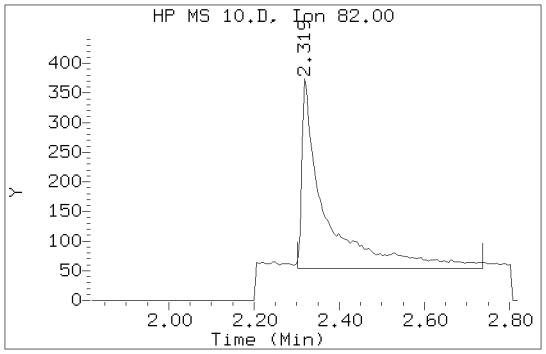
BEFORE

MASS
82
AREA
1813
HEIGHT
361
29-Jun-2024
15:48
ALSHS
Server



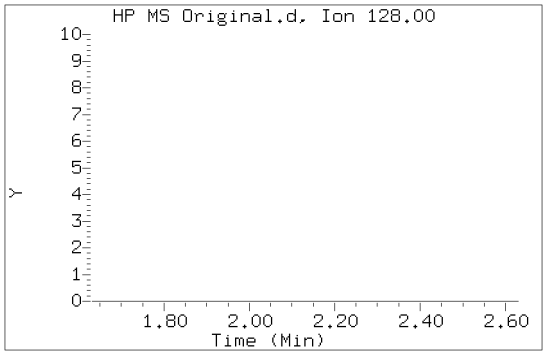
AFTER

MASS
82
AREA
1233
HEIGHT
320
01-Jul-2024
16:23



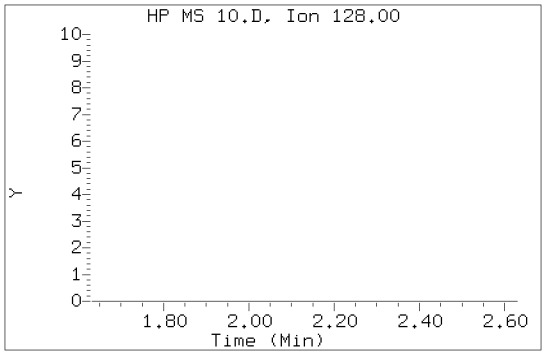
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
15:48
ALSHS
Server



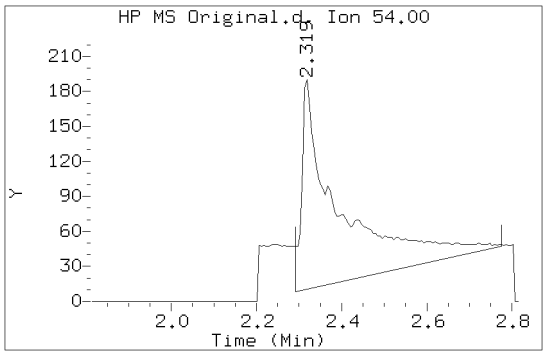
AFTER

MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:23



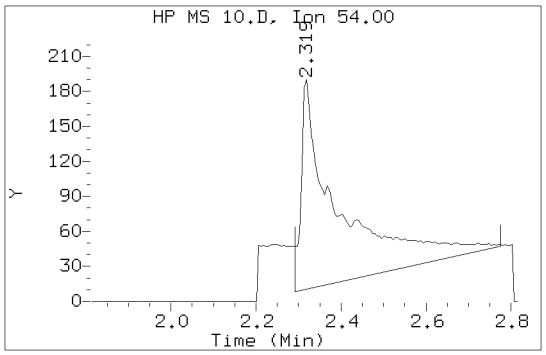
BEFORE

MASS
54
AREA
1111
HEIGHT
179
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
54
AREA
1111
HEIGHT
179
01-Jul-2024
16:23



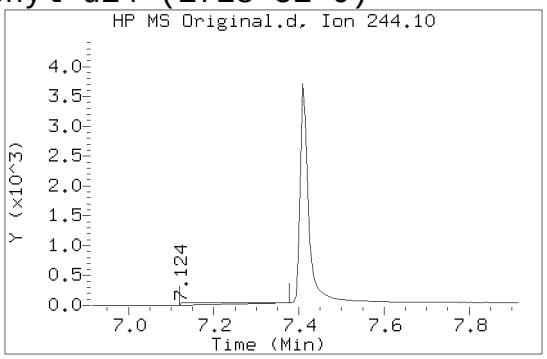
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

4-Terphenyl-d14 (1718-51-0)

Reason Code:

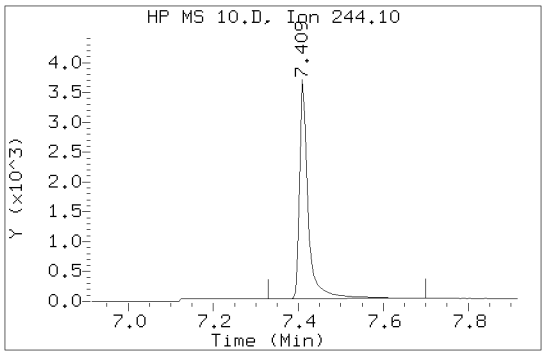
BEFORE

MASS
244.1
AREA
333
HEIGHT
43
29-Jun-2024
15:48
ALSHS
Server



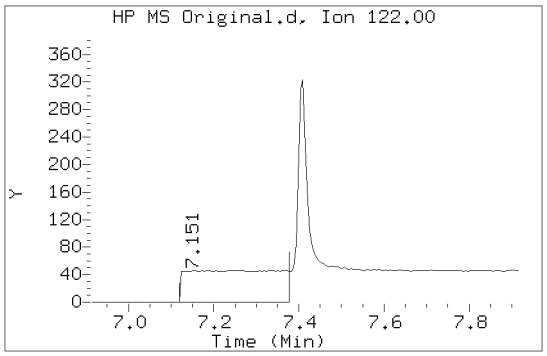
AFTER

MASS
244.1
AREA
5114
HEIGHT
3668
01-Jul-2024
16:23



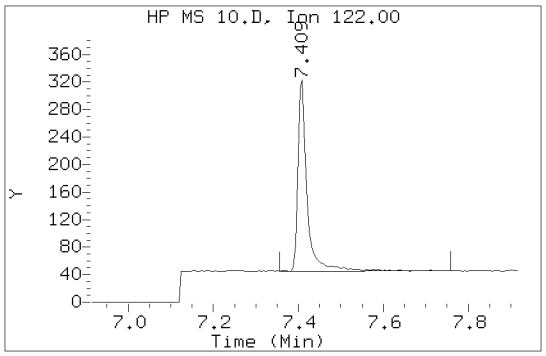
BEFORE

MASS
122
AREA
704
HEIGHT
46
29-Jun-2024
15:48
ALSHS
Server



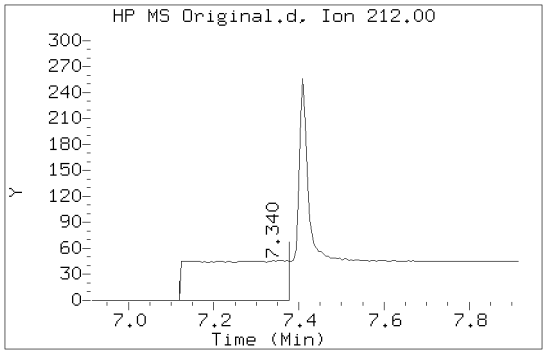
AFTER

MASS
122
AREA
413
HEIGHT
277
01-Jul-2024
16:23



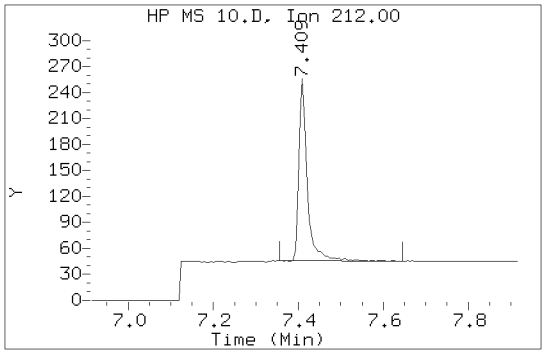
BEFORE

MASS
212
AREA
695
HEIGHT
46
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
212
AREA
286
HEIGHT
210
01-Jul-2024
16:23

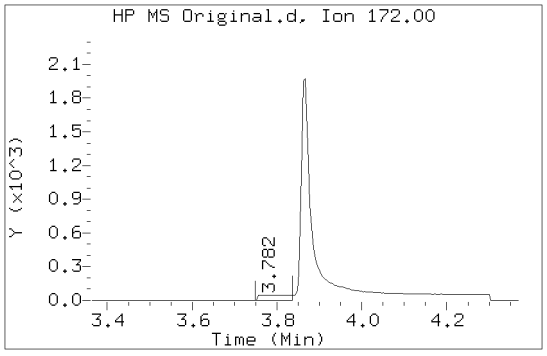


2-Fluorobiphenyl (321-60-8)

Reason Code:

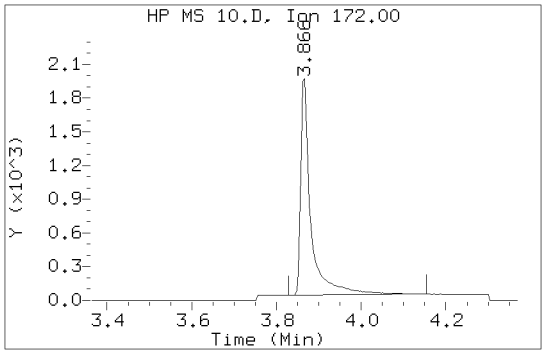
BEFORE

MASS
172
AREA
223
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
172
AREA
3218
HEIGHT
1927
01-Jul-2024
16:23



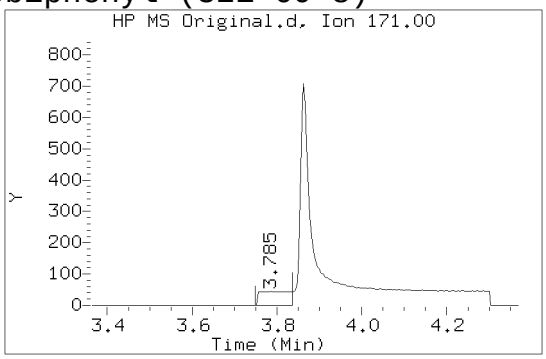
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\10.D
Inj Date : 29-JUN-2024 15:33
InstruID : SV6.i
LabSampID : LCSD-213834

2-Fluorobiphenyl (321-60-8)

Reason Code:

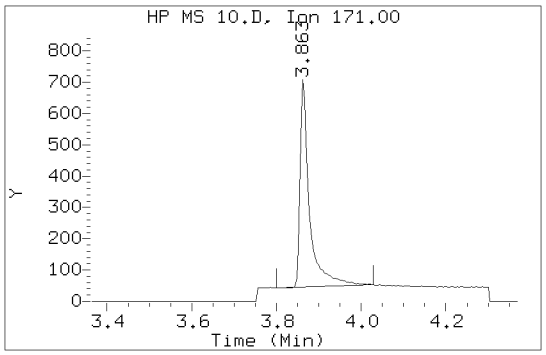
BEFORE

MASS
171
AREA
223
HEIGHT
45
29-Jun-2024
15:48
ALSHS
Server



AFTER

MASS
171
AREA
1007
HEIGHT
661
01-Jul-2024
16:23



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D Page 1
Report Date: 26-Jul-2024 08:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D
Lab Smp Id: HS24060985-03
Inj Date : 29-JUN-2024 15:50
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-03
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 08:52 r.patel 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: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.910	1.916	(1.000)	2548	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	5033	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.313	2.318	(0.803)	834	0.05520	0.05520(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3054	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2382	0.05102	0.05102(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	6147	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	5545	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	5087	0.04503	0.04503(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	5618	0.10000	

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\240629.b\11.D

Date : 29-JUN-2024 15:50

Client ID:

Instrument: SV6.i

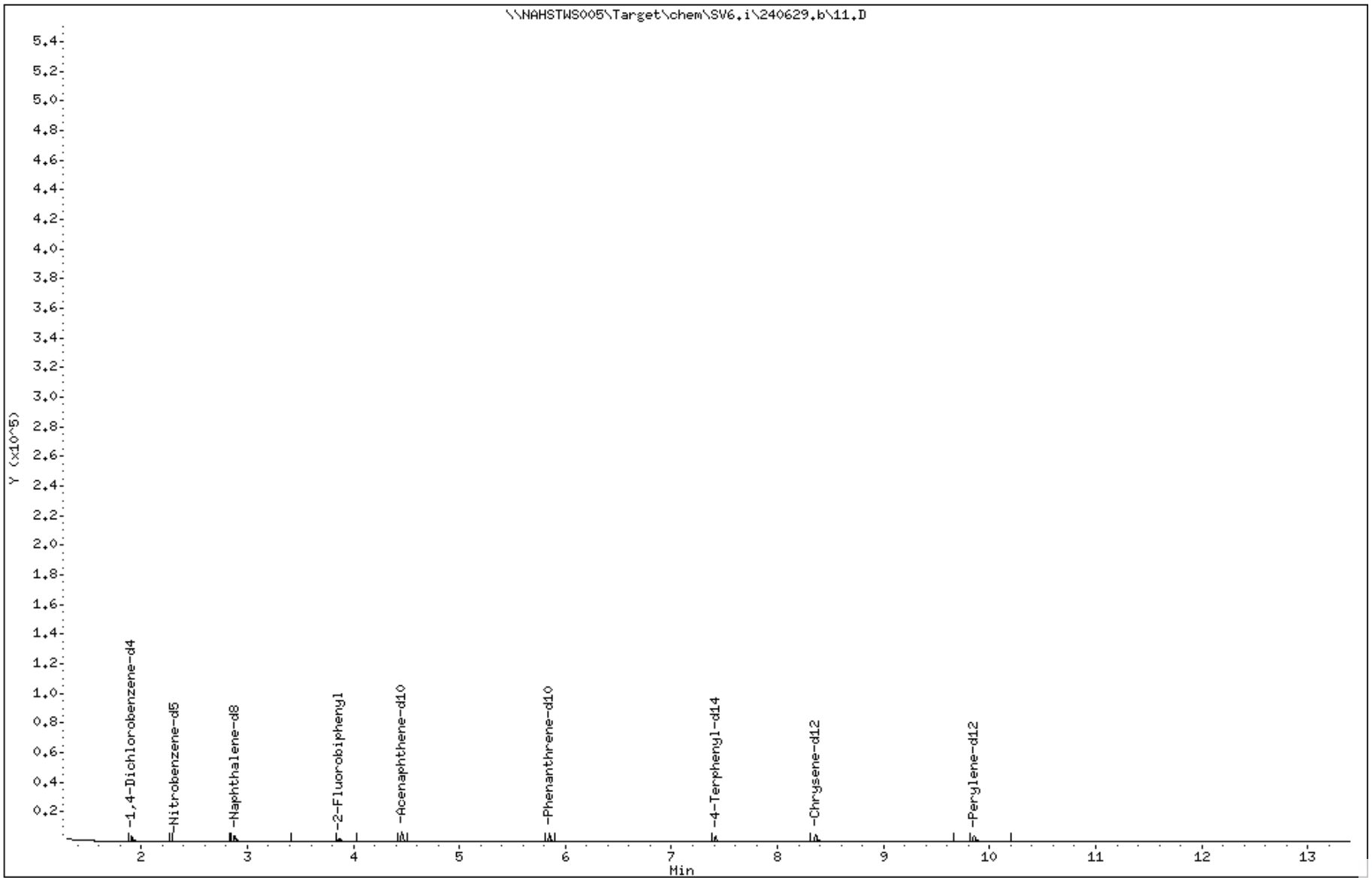
Sample Info: HS24060985-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



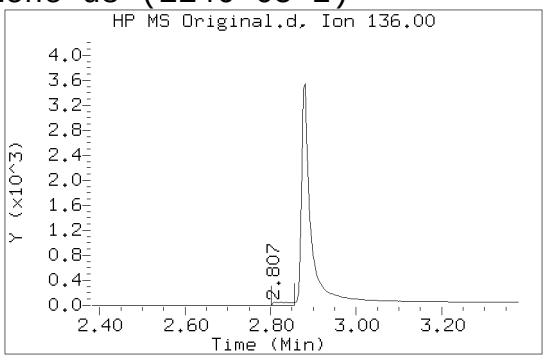
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D
Inj Date : 29-JUN-2024 15:50
InstruID : SV6.i
LabSampID : HS24060985-03

Naphthalene-d8 (1146-65-2)

Reason Code: MBA

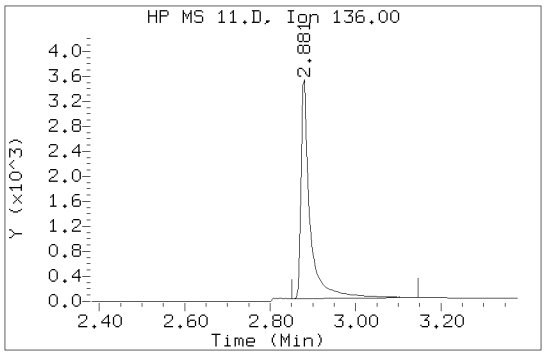
BEFORE

MASS
136
AREA
148
HEIGHT
47
29-Jun-2024
16:05
ALSHS
Server



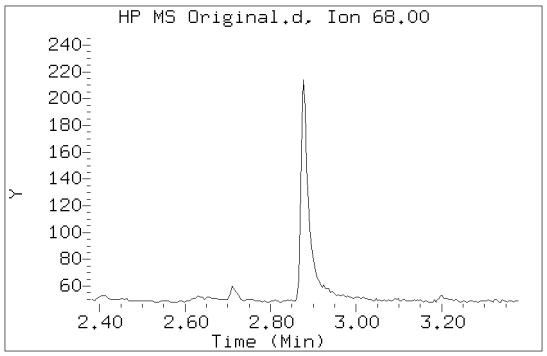
AFTER

MASS
136
AREA
5033
HEIGHT
3497
26-Jul-2024
08:53
ALSHS
S



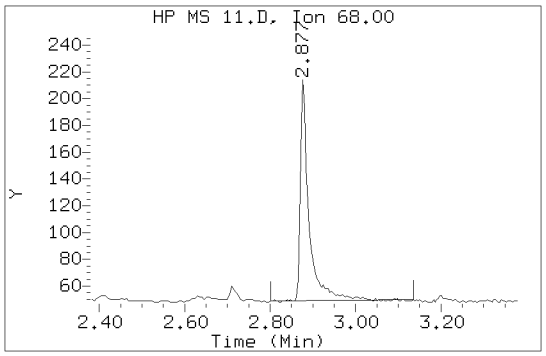
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
68
AREA
226
HEIGHT
164
26-Jul-2024
08:53
ALSHS
S

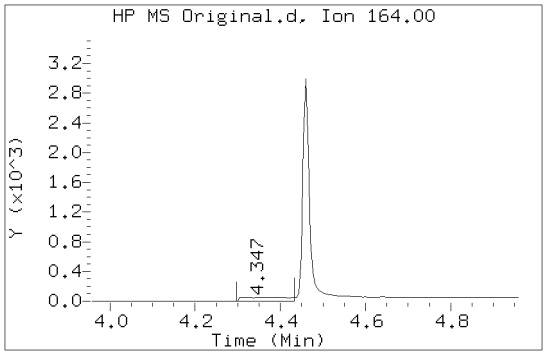


Acenaphthene-d10 (15067-26-2)

Reason Code:

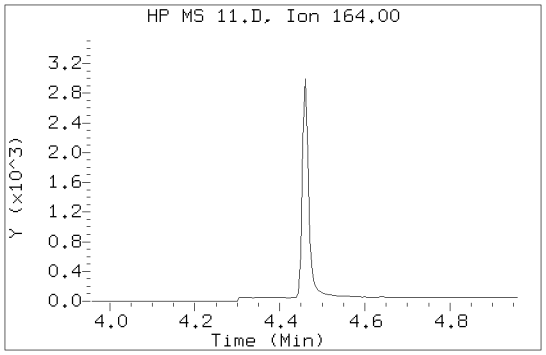
BEFORE

MASS
164
AREA
381
HEIGHT
51
29-Jun-2024
16:05
ALSHS
Server



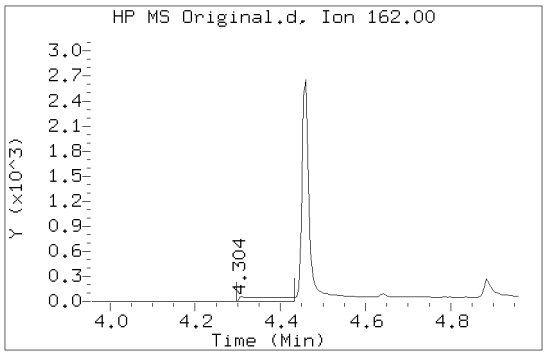
AFTER

MASS
164
AREA
3054
HEIGHT
2940
26-Jul-2024
08:53
ALSHS
S



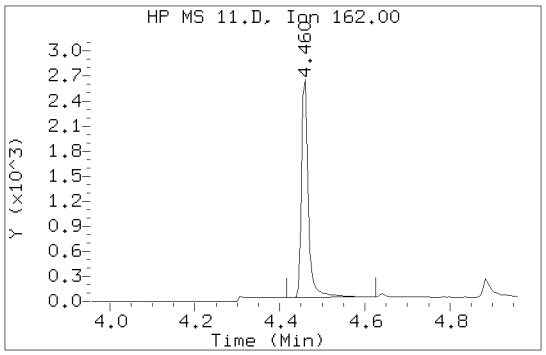
BEFORE

MASS
162
AREA
375
HEIGHT
57
29-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
162
AREA
2866
HEIGHT
2608
26-Jul-2024
08:53
ALSHS
S



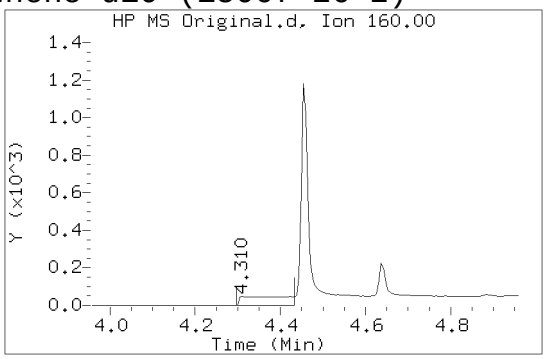
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D
Inj Date : 29-JUN-2024 15:50
InstruID : SV6.i
LabSampID : HS24060985-03

Acenaphthene-d10 (15067-26-2)

Reason Code:

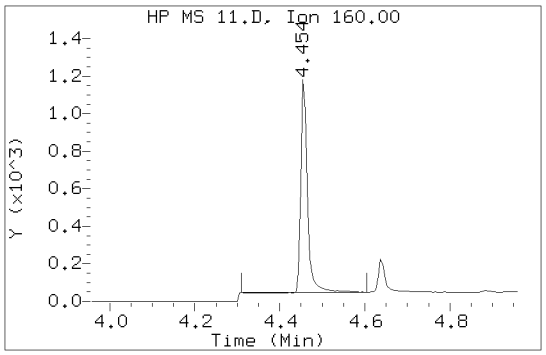
BEFORE

MASS
160
AREA
359
HEIGHT
47
29-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
160
AREA
1197
HEIGHT
1133
26-Jul-2024
08:53
ALSHS
S

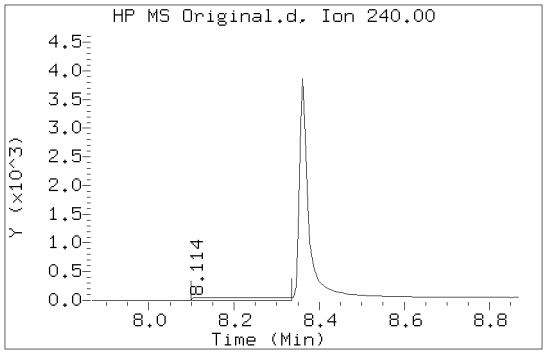


Chrysene-d12 (1719-03-5)

Reason Code:

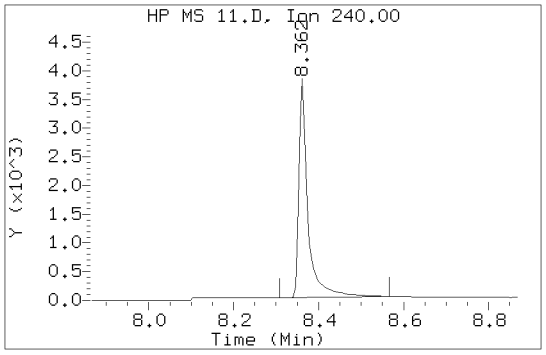
BEFORE

MASS
240
AREA
668
HEIGHT
48
29-Jun-2024
16:05
ALSHS
Server



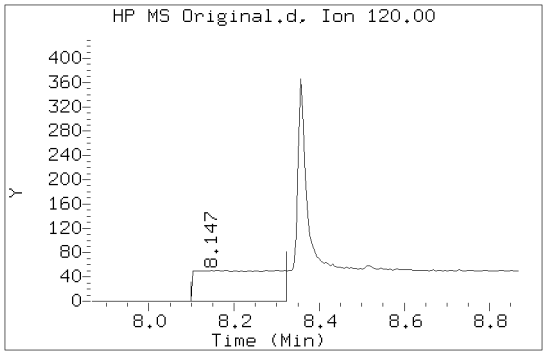
AFTER

MASS
240
AREA
5545
HEIGHT
3812
26-Jul-2024
08:53
ALSHS
S



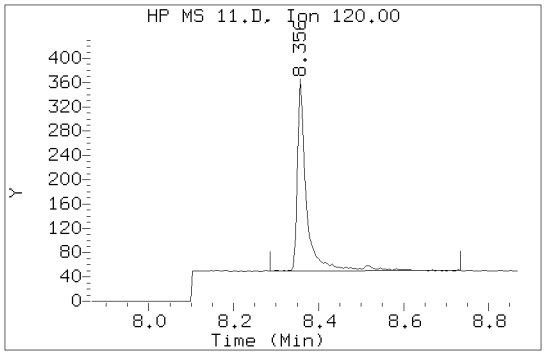
BEFORE

MASS
120
AREA
678
HEIGHT
51
29-Jun-2024
16:05
ALSHS
Server



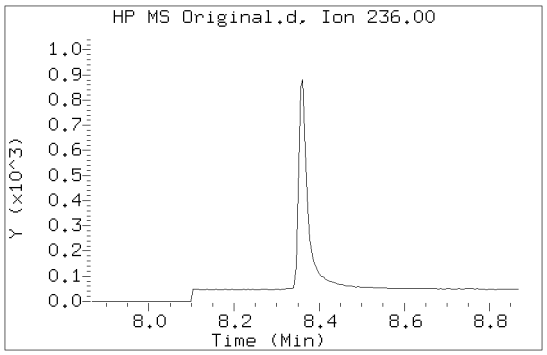
AFTER

MASS
120
AREA
466
HEIGHT
315
26-Jul-2024
08:53
ALSHS
S



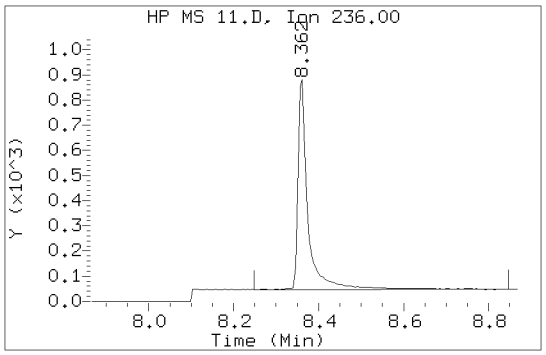
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2024
16:05
ALSHS
Server



AFTER

MASS
236
AREA
1336
HEIGHT
833
26-Jul-2024
08:53
ALSHS
S

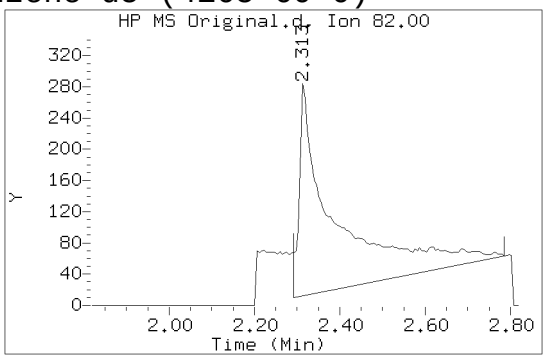


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D
Inj Date : 29-JUN-2024 15:50
InstruID : SV6.i
LabSampID : HS24060985-03

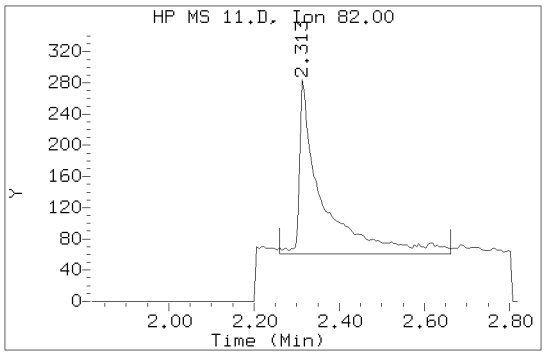
Nitrobenzene-d5 (4165-60-0)

Reason Code:

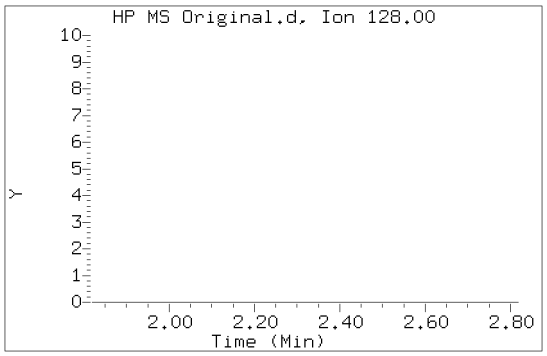
BEFORE
MASS
82
AREA
1605
HEIGHT
271
29-Jun-2024
16:05
ALSHS
Server



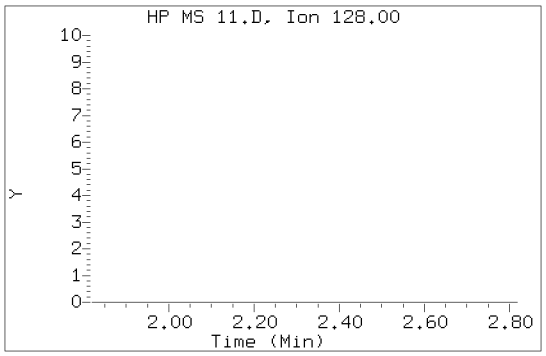
AFTER
MASS
82
AREA
834
HEIGHT
223
26-Jul-2024
08:53
ALSHS
S



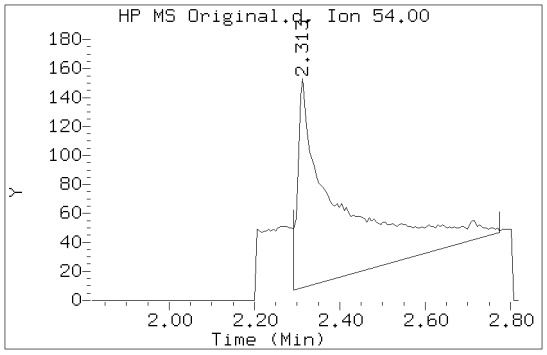
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
16:05
ALSHS
Server



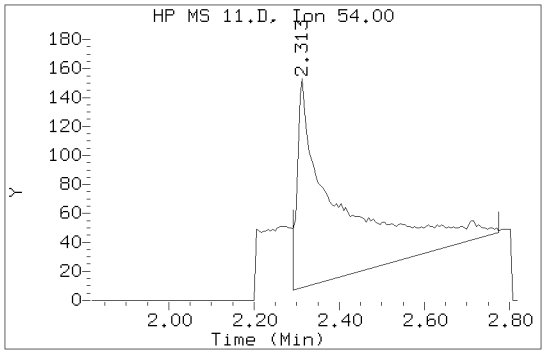
AFTER
MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
08:53
ALSHS
S



BEFORE
MASS
54
AREA
987
HEIGHT
144
29-Jun-2024
16:05
ALSHS
Server



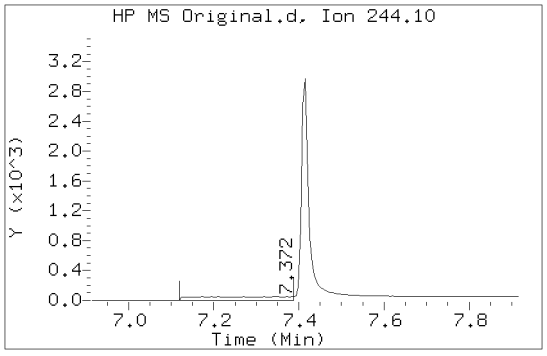
AFTER
MASS
54
AREA
987
HEIGHT
144
26-Jul-2024
08:53
ALSHS
S



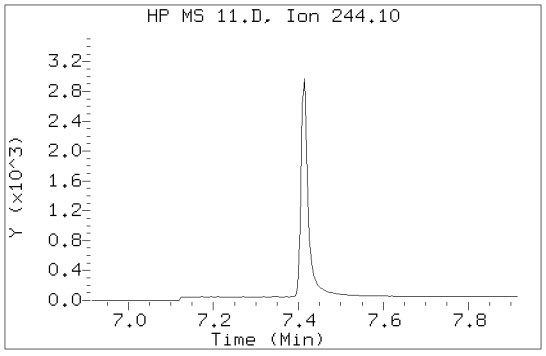
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
761
HEIGHT
49
29-Jun-2024
16:05
ALSHS
Server



AFTER
MASS
244.1
AREA
5087
HEIGHT
2951
26-Jul-2024
08:53
ALSHS
S

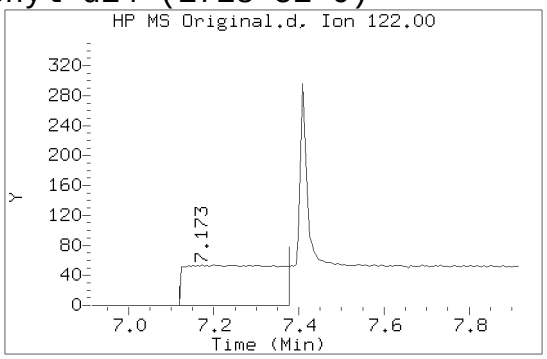


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\11.D
Inj Date : 29-JUN-2024 15:50
InstruID : SV6.i
LabSampID : HS24060985-03

4-Terphenyl-d14 (1718-51-0)

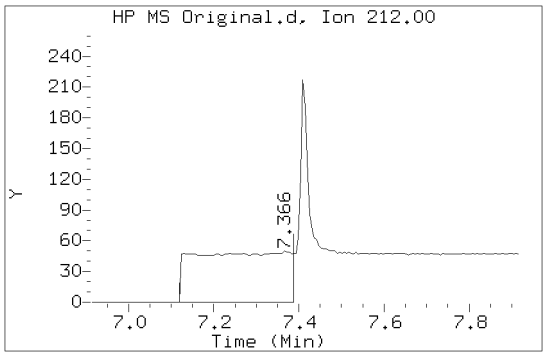
BEFORE

MASS
122
AREA
812
HEIGHT
54
29-Jun-2024
16:05
ALSHS
Server



BEFORE

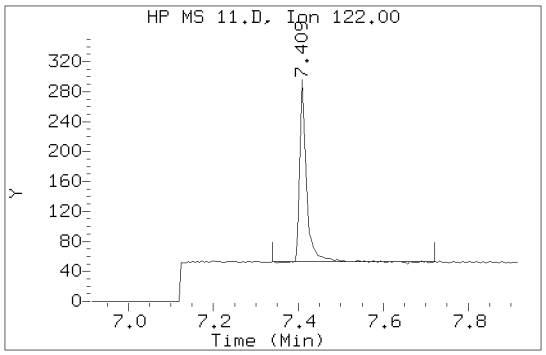
MASS
212
AREA
759
HEIGHT
50
29-Jun-2024
16:05
ALSHS
Server



Reason Code:

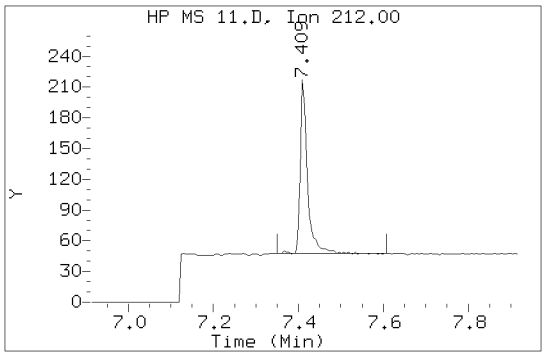
AFTER

MASS
122
AREA
259
HEIGHT
243
26-Jul-2024
08:53
ALSHS
S



AFTER

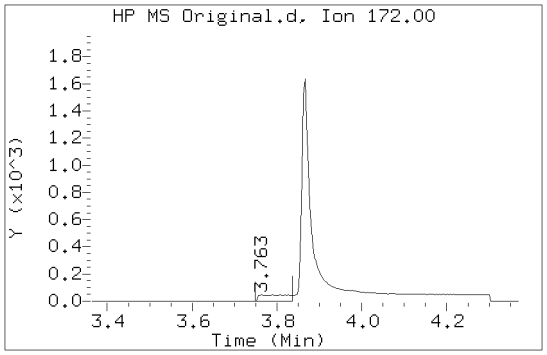
MASS
212
AREA
192
HEIGHT
169
26-Jul-2024
08:53
ALSHS
S



2-Fluorobiphenyl (321-60-8)

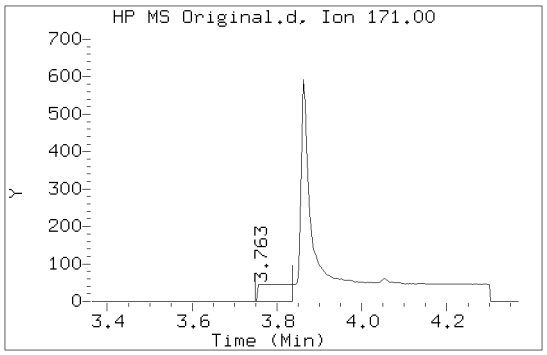
BEFORE

MASS
172
AREA
224
HEIGHT
45
29-Jun-2024
16:05
ALSHS
Server



BEFORE

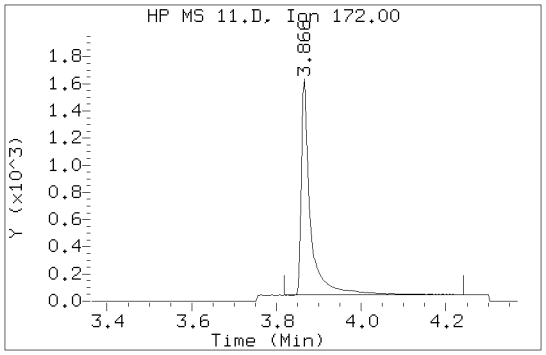
MASS
171
AREA
224
HEIGHT
45
29-Jun-2024
16:05
ALSHS
Server



Reason Code:

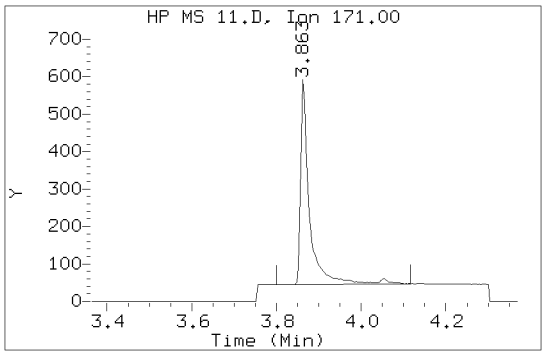
AFTER

MASS
172
AREA
2382
HEIGHT
1590
26-Jul-2024
08:53
ALSHS
S



AFTER

MASS
171
AREA
780
HEIGHT
546
26-Jul-2024
08:53
ALSHS
S



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Lab Smp Id: HS24060985-04
Inj Date : 29-JUN-2024 16:08
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-04
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 26-Jul-2024 08:48 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	2442	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	4605	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	855	0.06185	0.06185(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3005	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2332	0.05077	0.05077(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	5916	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	5106	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	6903	0.06636	0.06636(M)
* 198 Perylene-d12	264	9.851	9.861	(1.000)	5647	0.10000	
1 1,4-Dioxane	58	0.745	0.719	(0.388)	1004	0.19195	0.1919(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\240629.b\12.D

Date : 29-JUN-2024 16:08

Client ID:

Instrument: SV6.i

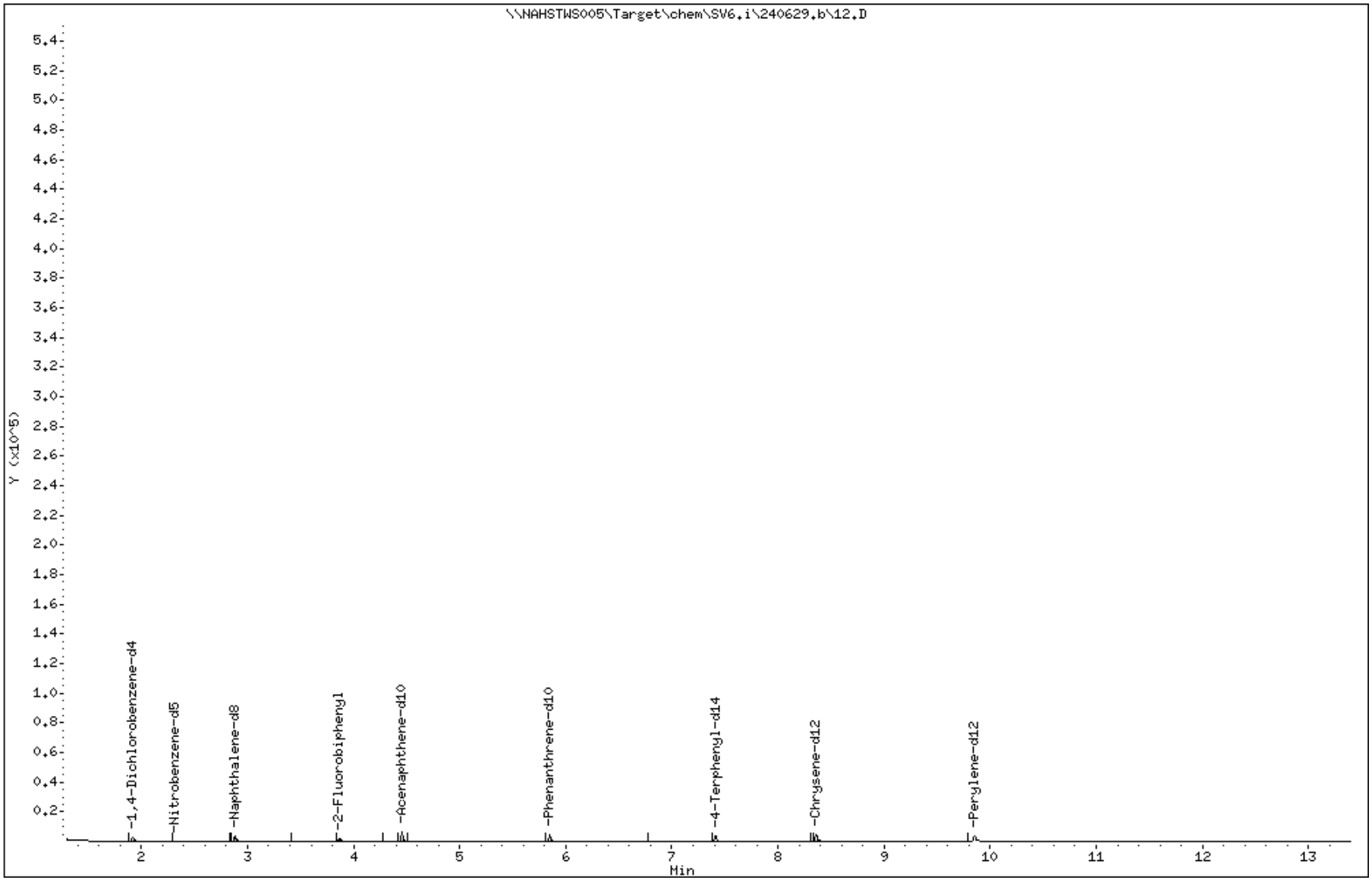
Sample Info: HS24060985-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D Page 2

Date : 29-JUN-2024 16:08

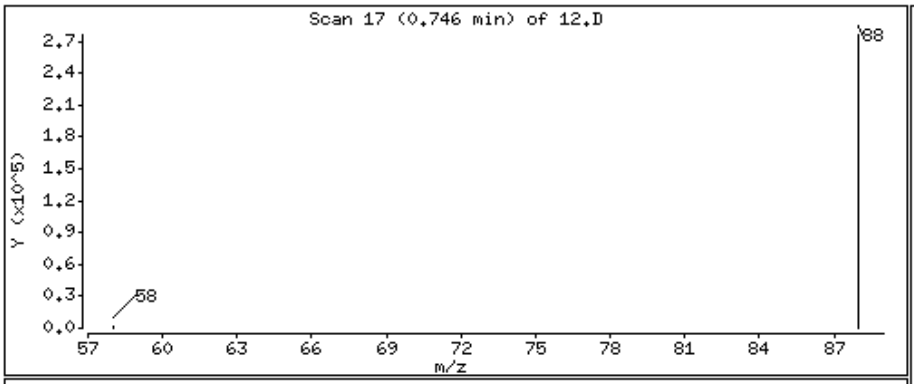
Client ID: Instrument: SV6.i

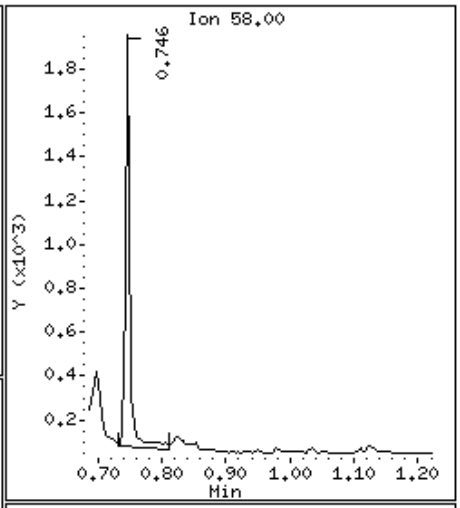
Sample Info: HS24060985-04

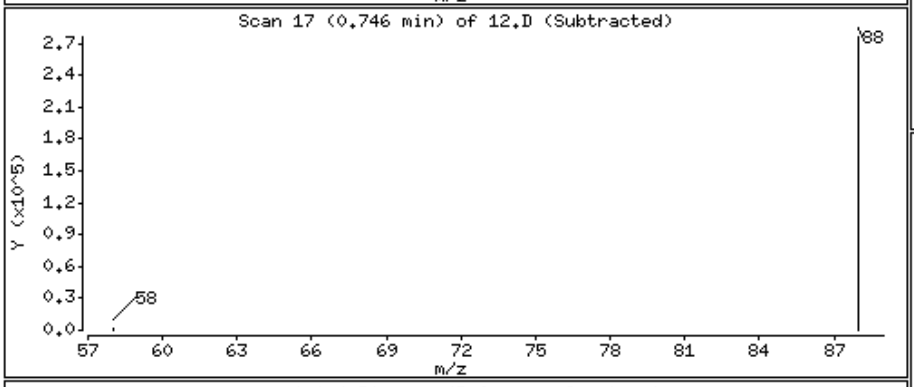
Purge Volume: 1000.0 Operator: LG

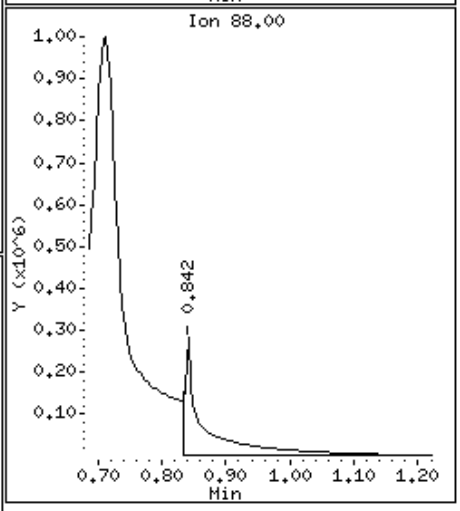
Column phase: RTX-5SIL MS Column diameter: 0.28

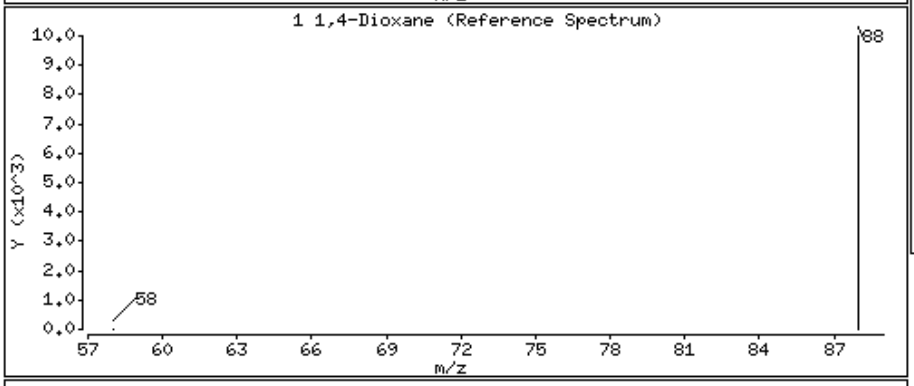
1 1,4-Dioxane Concentration: 0.1919 ug/L

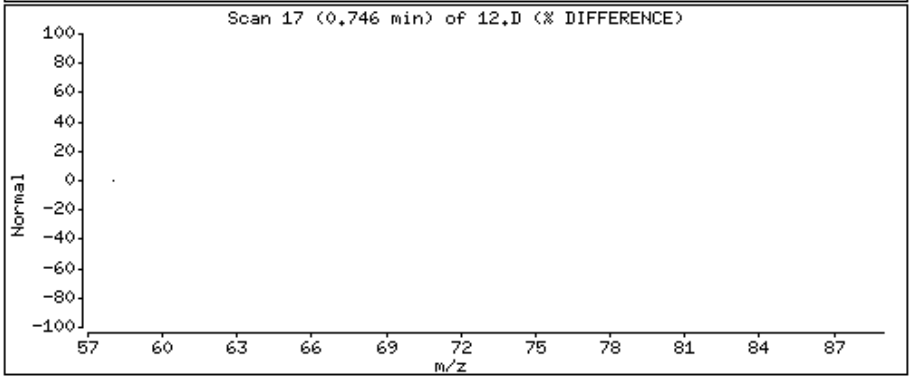












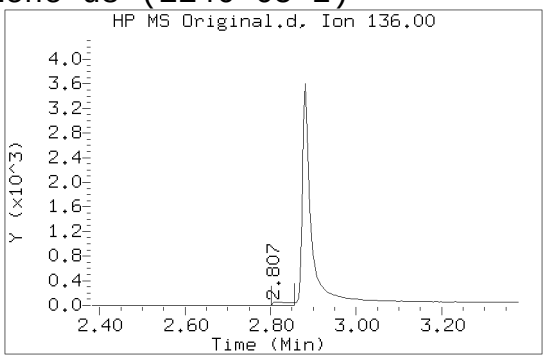
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Inj Date : 29-JUN-2024 16:08
InstruID : SV6.i
LabSampID : HS24060985-04

Naphthalene-d8 (1146-65-2)

Reason Code:

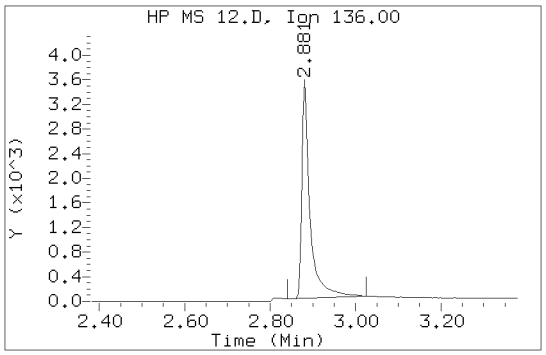
BEFORE

MASS
136
AREA
149
HEIGHT
49
29-Jun-2024
16:23
ALSHS
Server



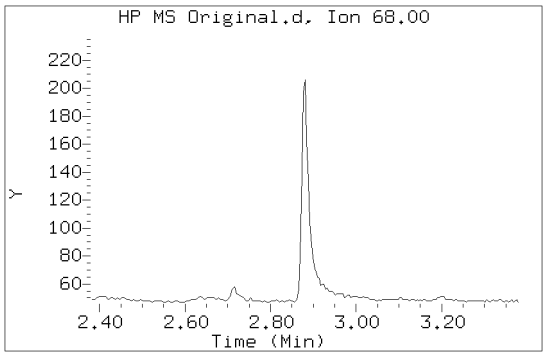
AFTER

MASS
136
AREA
4605
HEIGHT
3547
26-Jul-2024
08:49
ALSHS
S



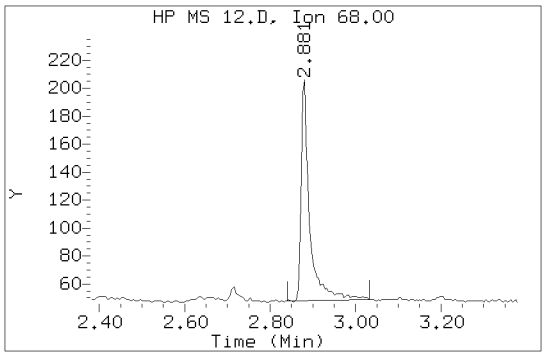
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
68
AREA
214
HEIGHT
157
26-Jul-2024
08:49
ALSHS
S

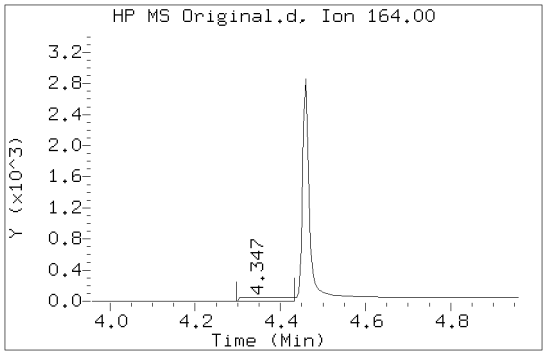


Acenaphthene-d10 (15067-26-2)

Reason Code:

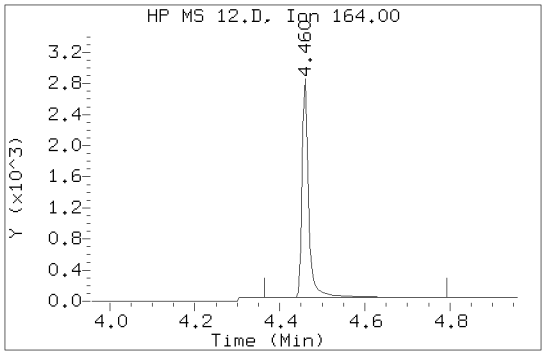
BEFORE

MASS
164
AREA
369
HEIGHT
49
29-Jun-2024
16:23
ALSHS
Server



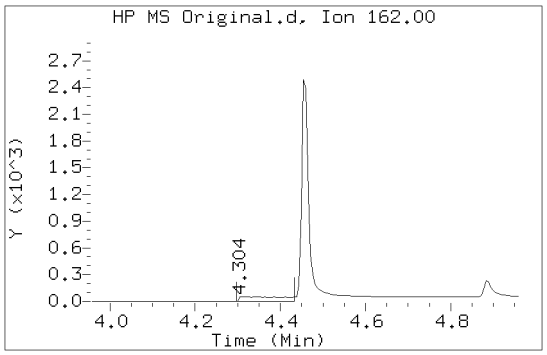
AFTER

MASS
164
AREA
3005
HEIGHT
2811
26-Jul-2024
08:49
ALSHS
S



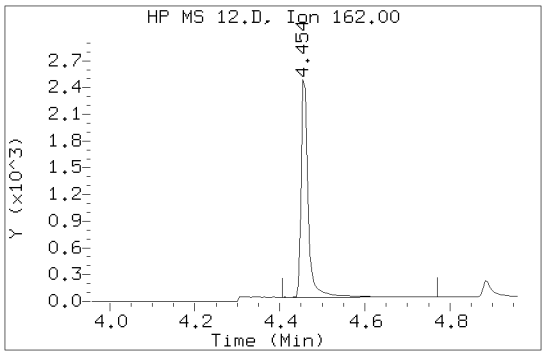
BEFORE

MASS
162
AREA
368
HEIGHT
52
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
162
AREA
2797
HEIGHT
2441
26-Jul-2024
08:49
ALSHS
S

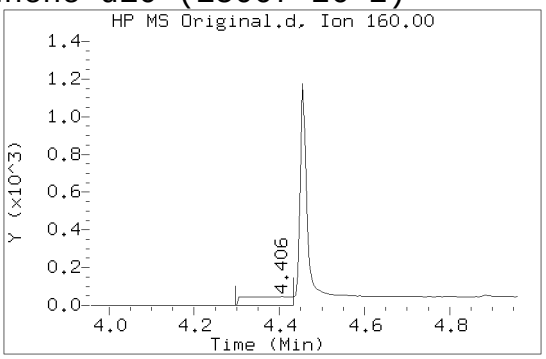


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Inj Date : 29-JUN-2024 16:08
InstruID : SV6.i
LabSampID : HS24060985-04

Acenaphthene-d10 (15067-26-2)

BEFORE

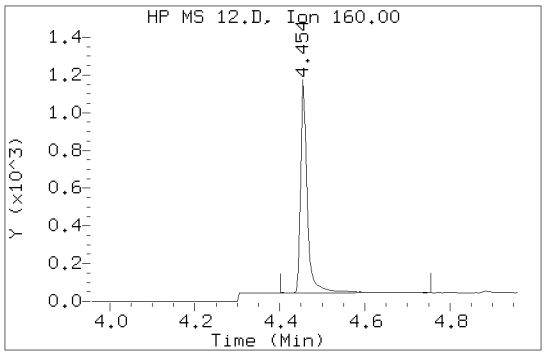
MASS
160
AREA
353
HEIGHT
46
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
160
AREA
1208
HEIGHT
1129
26-Jul-2024
08:49
ALSHS
S

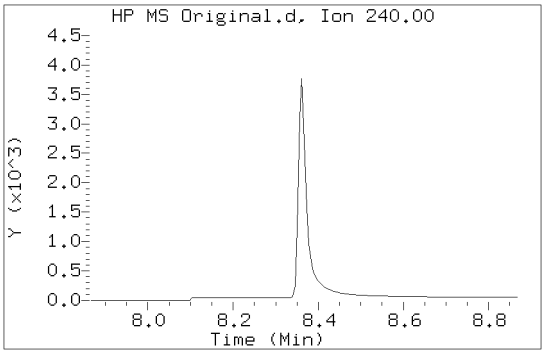
Reason Code:



Chrysene-d12 (1719-03-5)

BEFORE

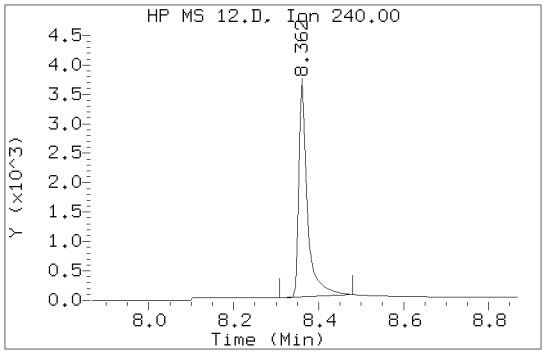
MASS
240
AREA
0
HEIGHT
0
29-Jun-2024
16:23
ALSHS
Server



AFTER

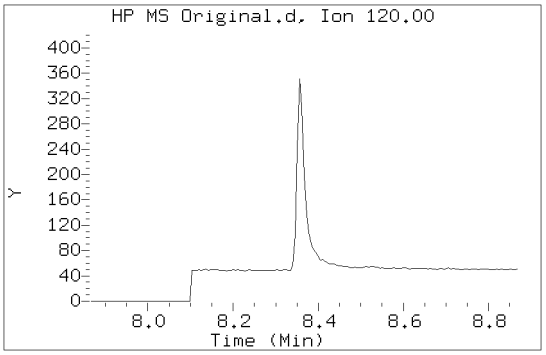
MASS
240
AREA
5106
HEIGHT
3704
26-Jul-2024
08:49
ALSHS
S

Reason Code:



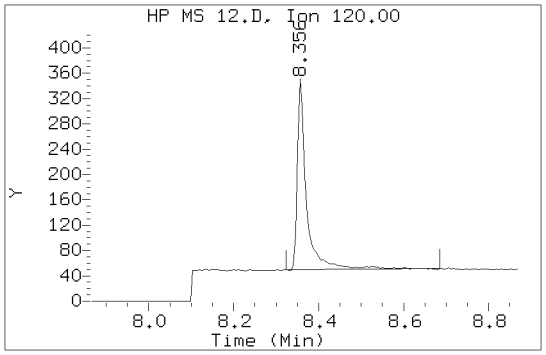
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2024
16:23
ALSHS
Server



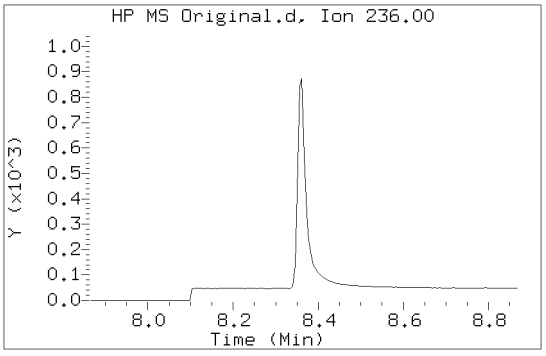
AFTER

MASS
120
AREA
443
HEIGHT
300
26-Jul-2024
08:49
ALSHS
S



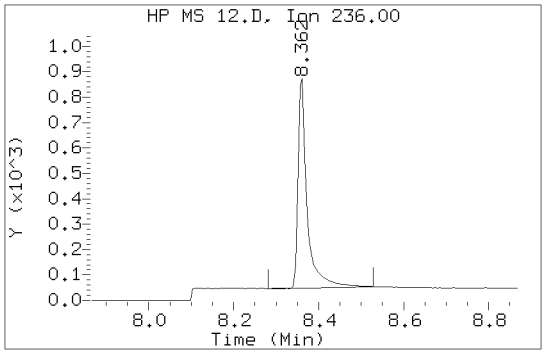
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
236
AREA
1218
HEIGHT
824
26-Jul-2024
08:49
ALSHS
S



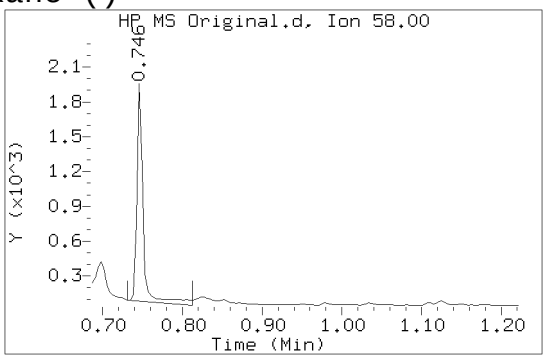
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Inj Date : 29-JUN-2024 16:08
InstruID : SV6.i
LabSampID : HS24060985-04

1,4-Dioxane ()

Reason Code:

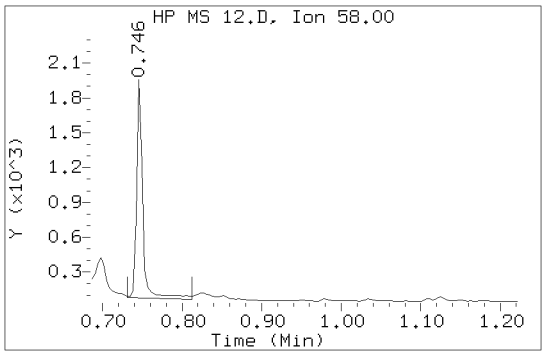
BEFORE

MASS
58
AREA
1027
HEIGHT
1873
29-Jun-2024
16:23
ALSHS
Server



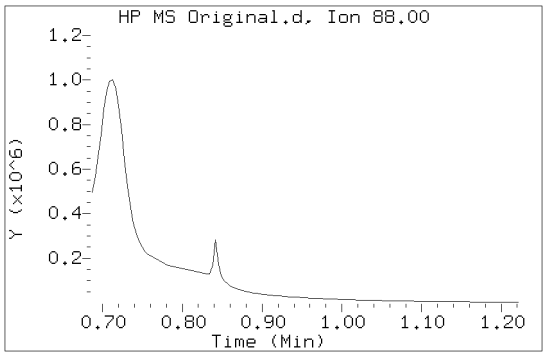
AFTER

MASS
58
AREA
1004
HEIGHT
1877
26-Jul-2024
08:49
ALSHS
S



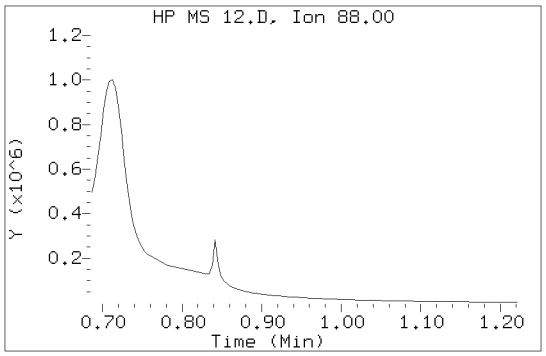
BEFORE

MASS
88
AREA
559049
HEIGHT
280675
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
88
AREA
559049
HEIGHT
280675
26-Jul-2024
08:49
ALSHS
S

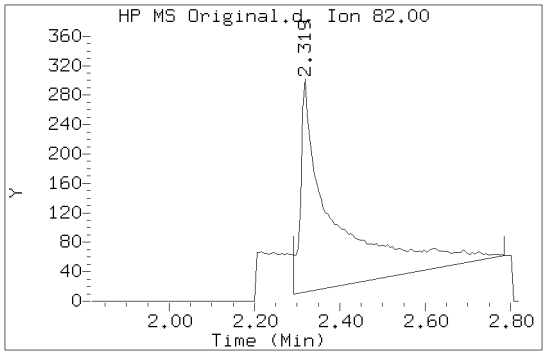


Nitrobenzene-d5 (4165-60-0)

Reason Code:

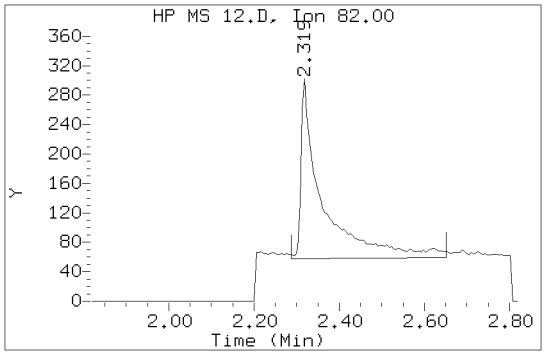
BEFORE

MASS
82
AREA
1579
HEIGHT
289
29-Jun-2024
16:23
ALSHS
Server



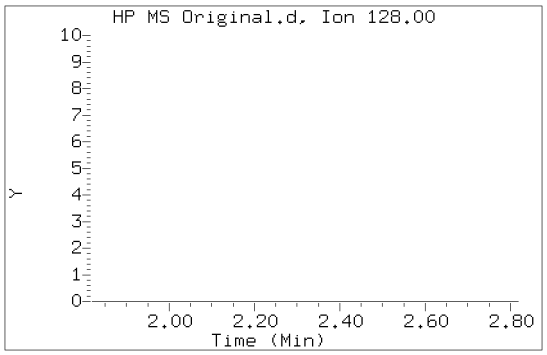
AFTER

MASS
82
AREA
855
HEIGHT
243
26-Jul-2024
08:49
ALSHS
S



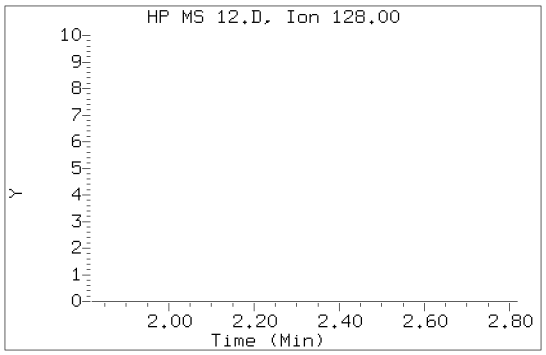
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
16:23
ALSHS
Server



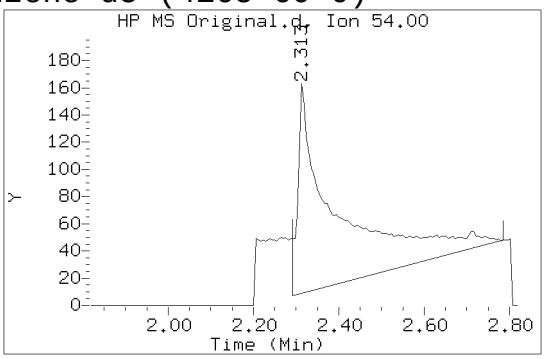
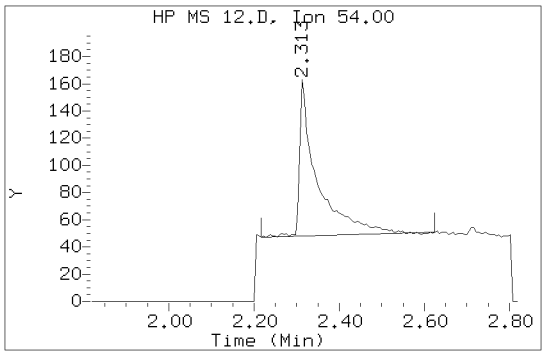
AFTER

MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
08:49
ALSHS
S

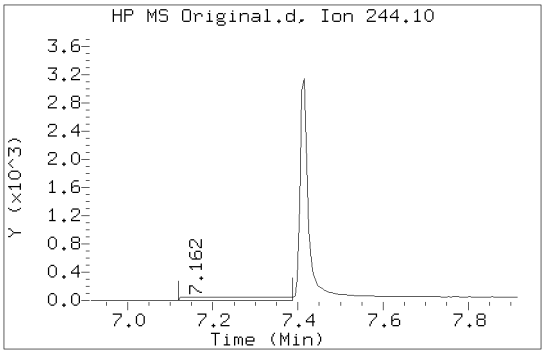
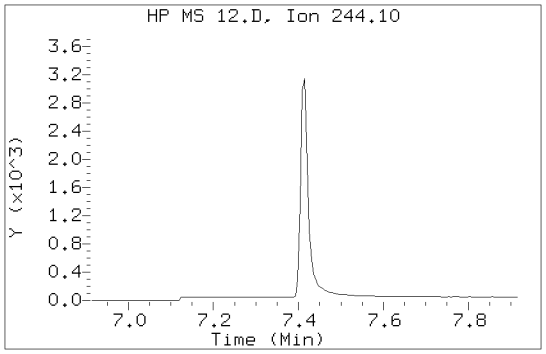


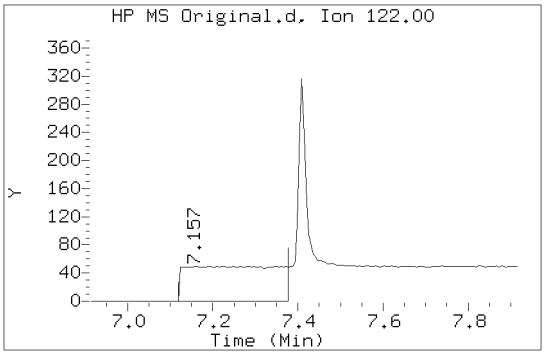
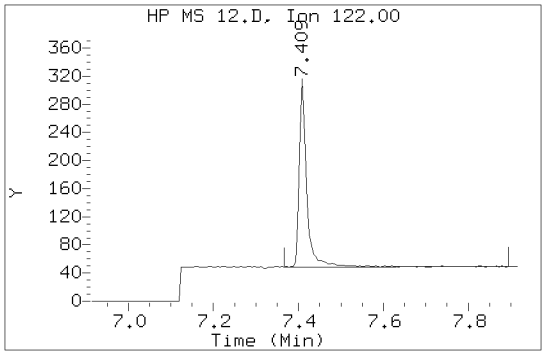
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Inj Date : 29-JUN-2024 16:08
InstruID : SV6.i
LabSampID : HS24060985-04

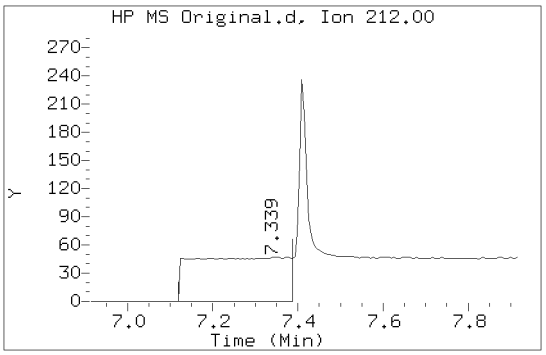
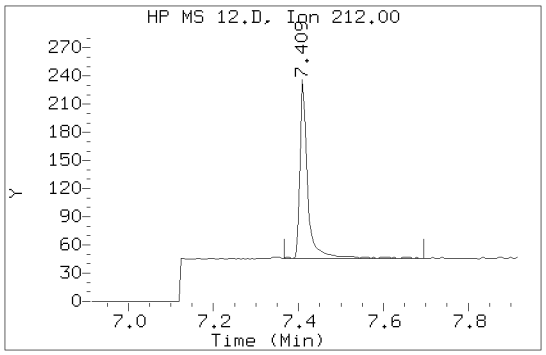
Nitrobenzene-d5 (4165-60-0)

BEFORE		AFTER		Reason Code:
MASS		MASS		
54		54		
AREA		AREA		
985		328		
HEIGHT		HEIGHT		
154		115		
29-Jun-2024		26-Jul-2024		
16:23		08:49		
ALSHS		ALSHS		
Server		S		

4-Terphenyl-d14 (1718-51-0)

BEFORE		AFTER		Reason Code:
MASS		MASS		
244.1		244.1		
AREA		AREA		
725		6903		
HEIGHT		HEIGHT		
46		3141		
29-Jun-2024		26-Jul-2024		
16:23		08:49		
ALSHS		ALSHS		
Server		S		

BEFORE		AFTER		
MASS		MASS		
122		122		
AREA		AREA		
748		331		
HEIGHT		HEIGHT		
49		267		
29-Jun-2024		26-Jul-2024		
16:23		08:49		
ALSHS		ALSHS		
Server		S		

BEFORE		AFTER		
MASS		MASS		
212		212		
AREA		AREA		
738		236		
HEIGHT		HEIGHT		
47		190		
29-Jun-2024		26-Jul-2024		
16:23		08:49		
ALSHS		ALSHS		
Server		S		

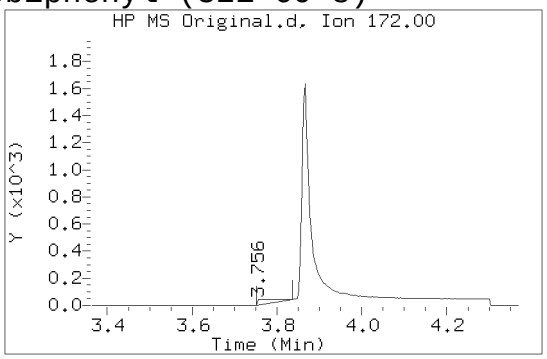
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\12.D
Inj Date : 29-JUN-2024 16:08
InstruID : SV6.i
LabSampID : HS24060985-04

2-Fluorobiphenyl (321-60-8)

Reason Code:

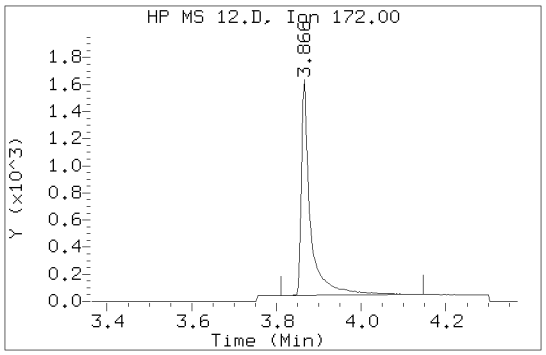
BEFORE

MASS
172
AREA
106
HEIGHT
42
29-Jun-2024
16:23
ALSHS
Server



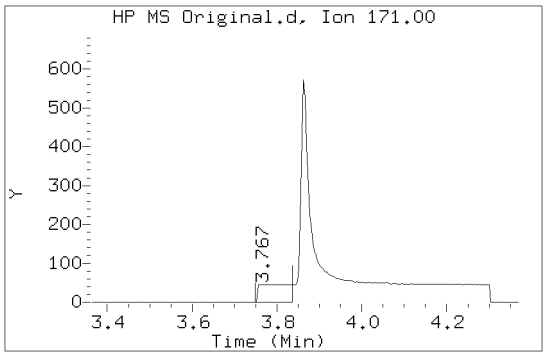
AFTER

MASS
172
AREA
2332
HEIGHT
1590
26-Jul-2024
08:49
ALSHS
S



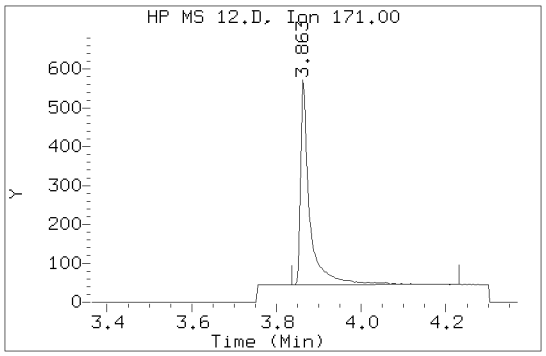
BEFORE

MASS
171
AREA
224
HEIGHT
45
29-Jun-2024
16:23
ALSHS
Server



AFTER

MASS
171
AREA
790
HEIGHT
527
26-Jul-2024
08:49
ALSHS
S



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Lab Smp Id: HS24060985-05
Inj Date : 29-JUN-2024 16:25
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 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

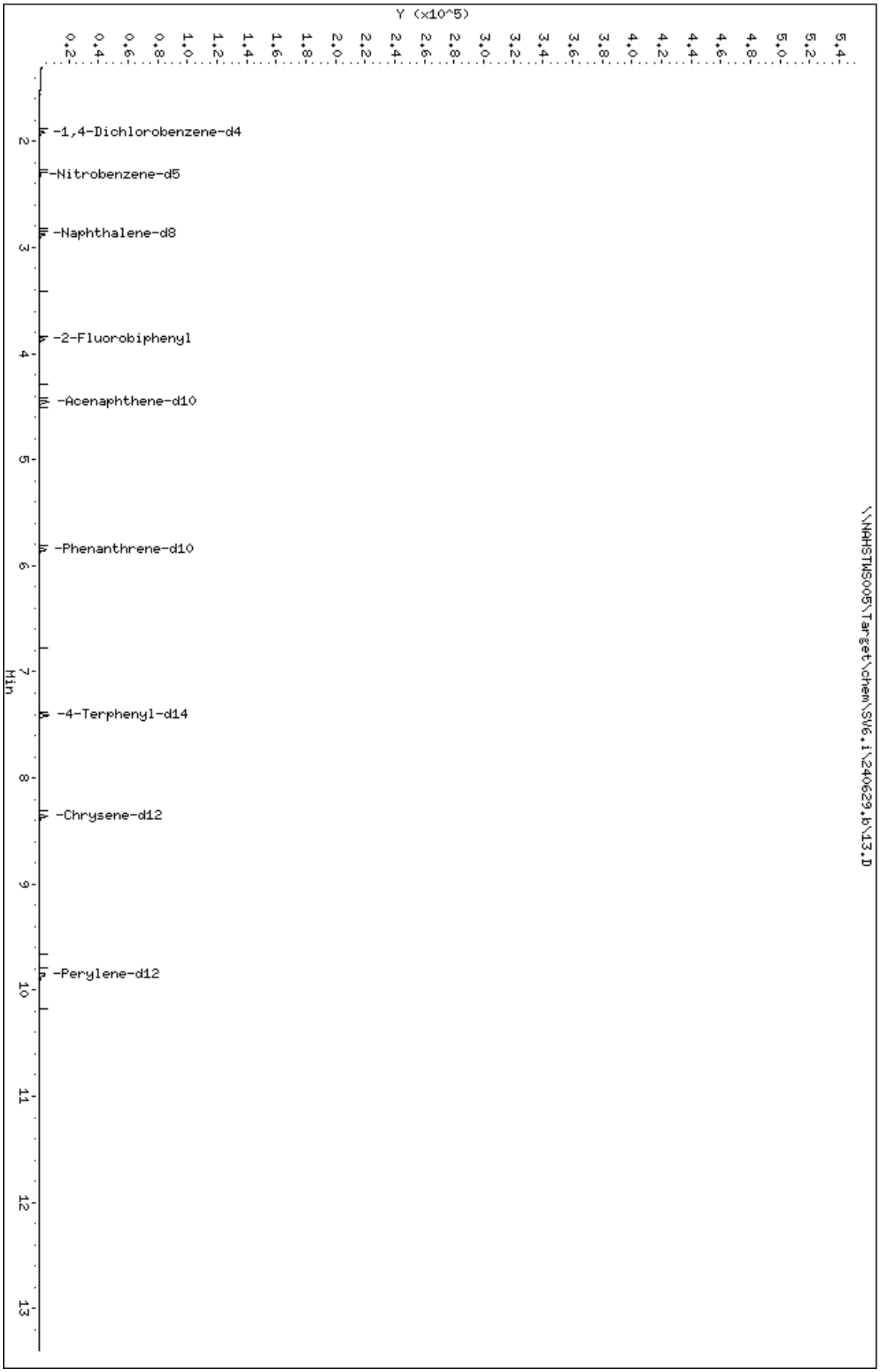
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.916	1.916	(1.000)	1678	0.10000	(aM)
* 45 Naphthalene-d8	136	2.877	2.880	(1.000)	4919	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.313	2.318	(0.804)	1256	0.08505	0.08505(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3360	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	4346	0.08461	0.08461(M)
* 126 Phenanthrene-d10	188	5.850	5.855	(1.000)	6598	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	6180	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.409	7.414	(0.886)	6849	0.05440	0.05440(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	6338	0.10000	
1 1,4-Dioxane	58	0.727	0.719	(0.380)	375	0.10434	0.1043(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\SW6.i\240629.b\13.D
Date : 29-JUN-2024 16:25
Client ID:
Sample Info: HS24060985-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SW6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D

Date : 29-JUN-2024 16:25

Client ID:

Instrument: SV6.i

Sample Info: HS24060985-05

Purge Volume: 1000.0

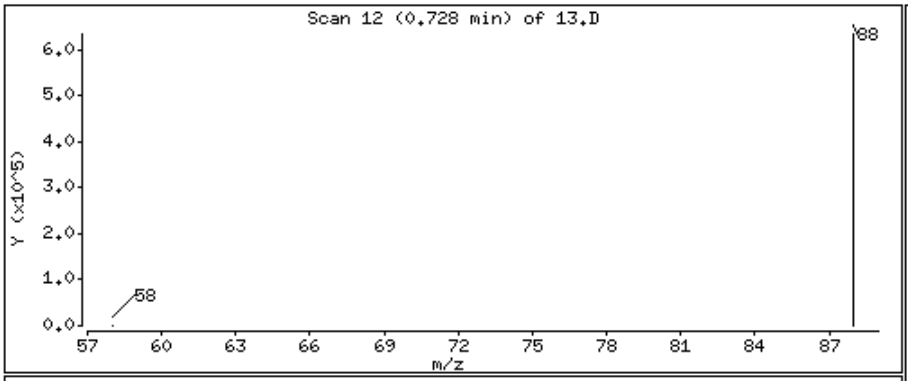
Operator: LG

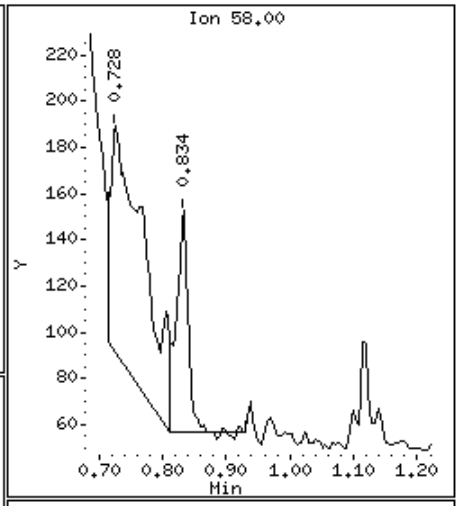
Column phase: RTX-5SIL MS

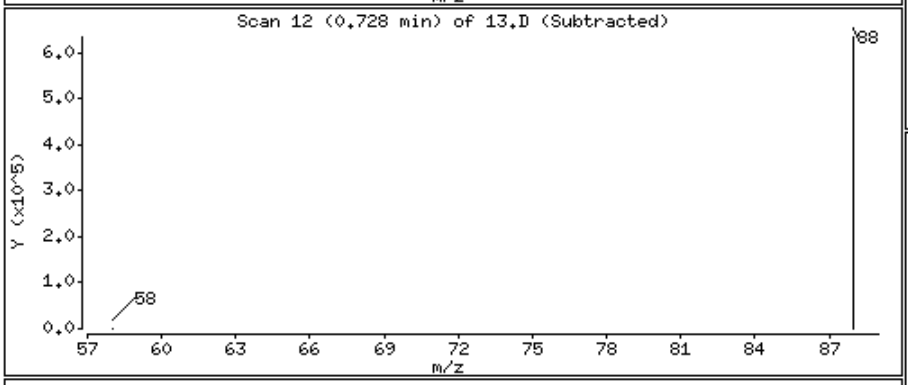
Column diameter: 0.28

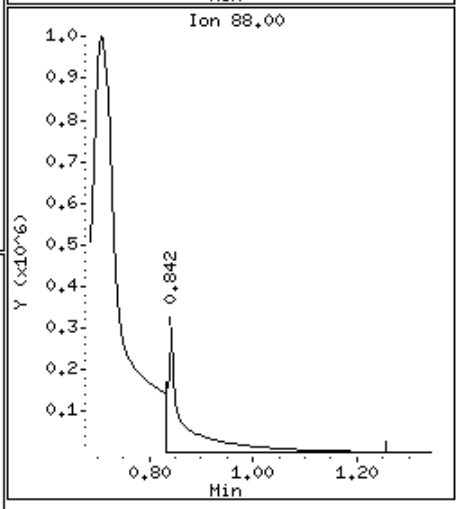
1 1,4-Dioxane

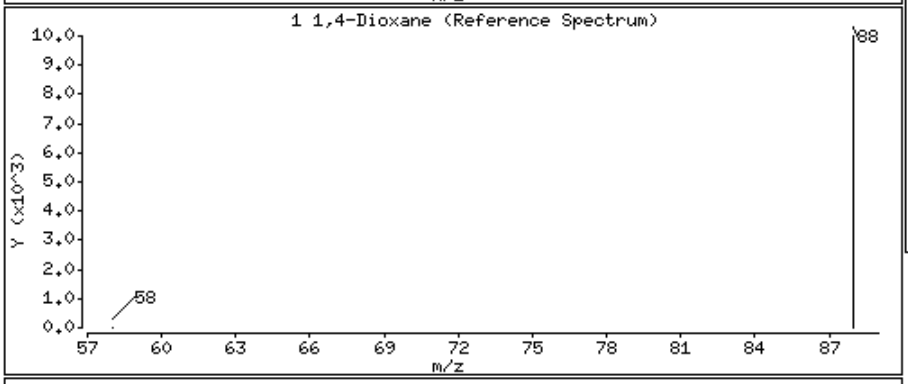
Concentration: 0.1043 ug/L

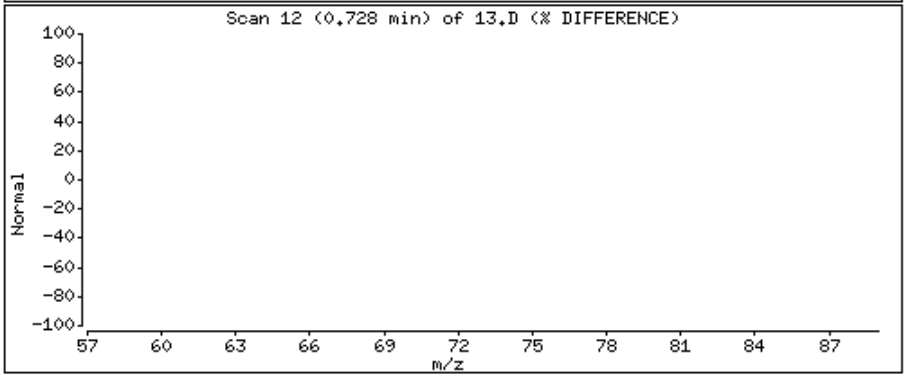












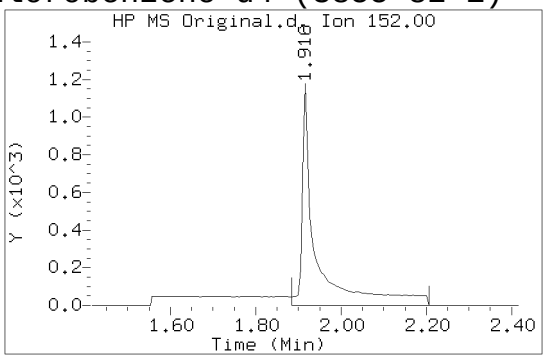
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Inj Date : 29-JUN-2024 16:25
InstruID : SV6.i
LabSampID : HS24060985-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

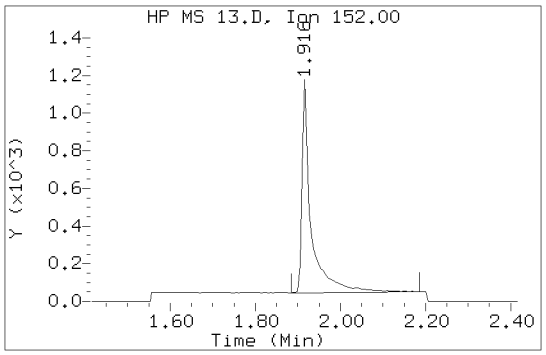
BEFORE

MASS
152
AREA
2618
HEIGHT
1178
29-Jun-2024
16:42
ALSHS
Server



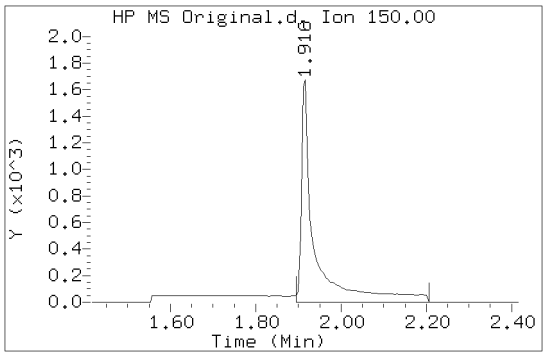
AFTER

MASS
152
AREA
1678
HEIGHT
1132
01-Jul-2024
16:33



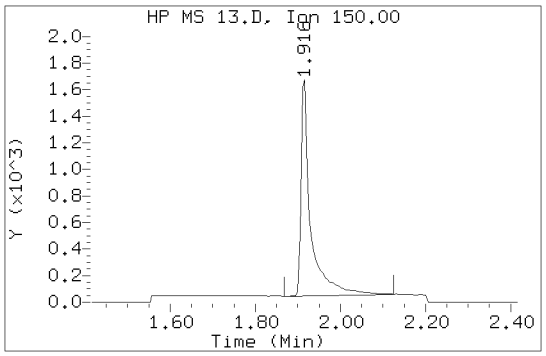
BEFORE

MASS
150
AREA
3573
HEIGHT
1674
29-Jun-2024
16:42
ALSHS
Server



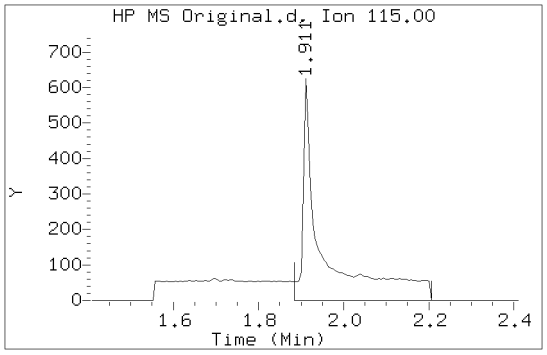
AFTER

MASS
150
AREA
2560
HEIGHT
1626
01-Jul-2024
16:33



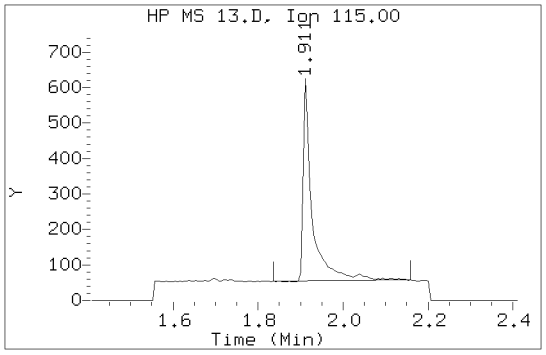
BEFORE

MASS
115
AREA
1925
HEIGHT
625
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
115
AREA
837
HEIGHT
569
01-Jul-2024
16:33

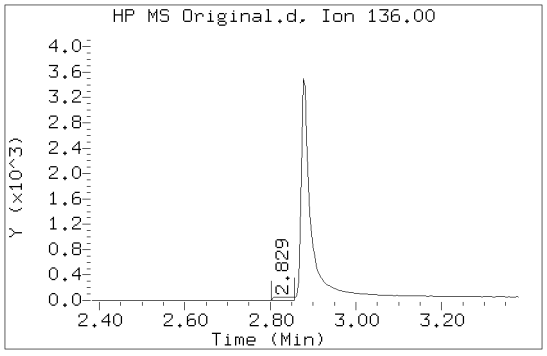


Naphthalene-d8 (1146-65-2)

Reason Code:

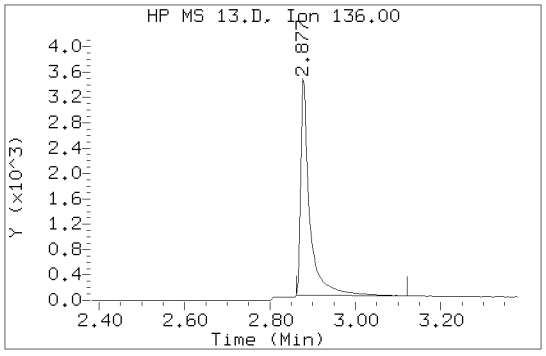
BEFORE

MASS
136
AREA
150
HEIGHT
48
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
136
AREA
4919
HEIGHT
3414
01-Jul-2024
16:33

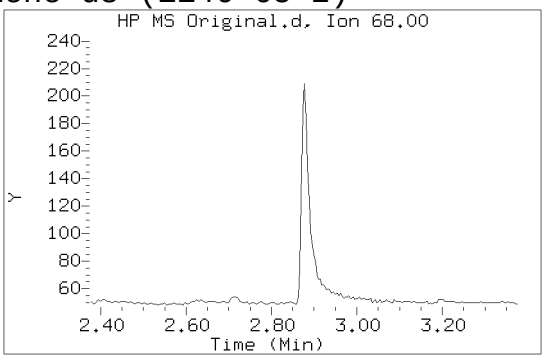


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Inj Date : 29-JUN-2024 16:25
InstruID : SV6.i
LabSampID : HS24060985-05

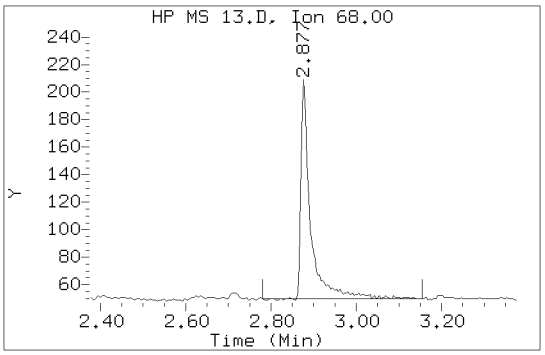
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



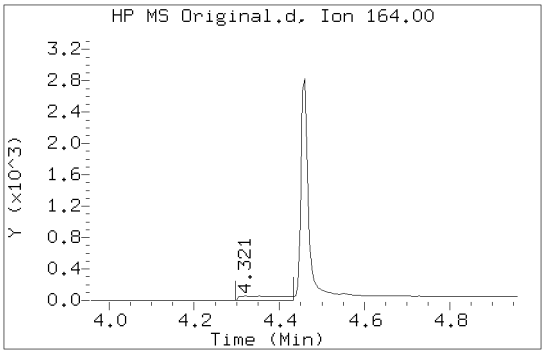
AFTER
MASS
68
AREA
251
HEIGHT
159
01-Jul-2024
16:33



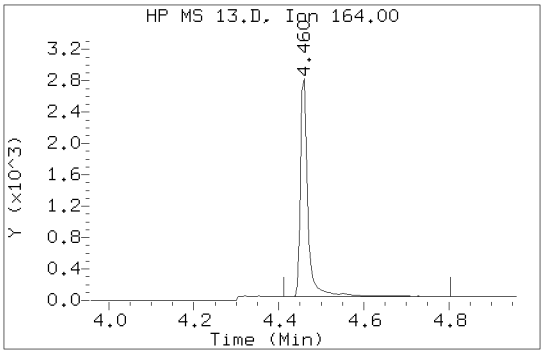
Acenaphthene-d10 (15067-26-2)

Reason Code:

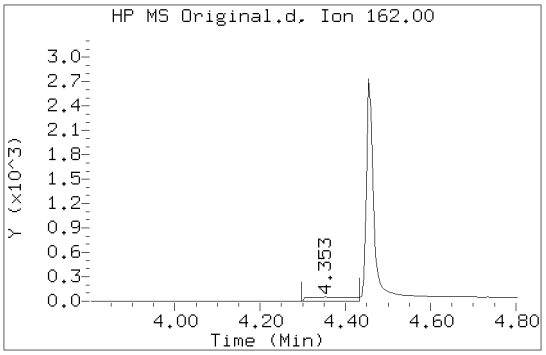
BEFORE
MASS
164
AREA
392
HEIGHT
54
29-Jun-2024
16:42
ALSHS
Server



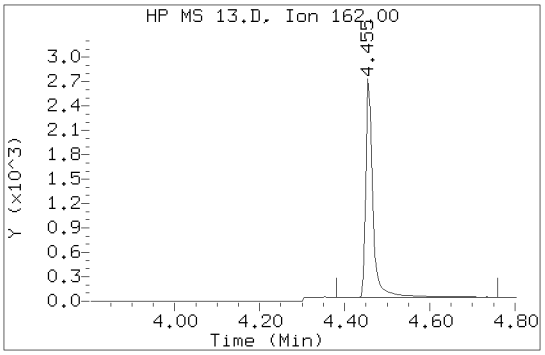
AFTER
MASS
164
AREA
3360
HEIGHT
2776
01-Jul-2024
16:33



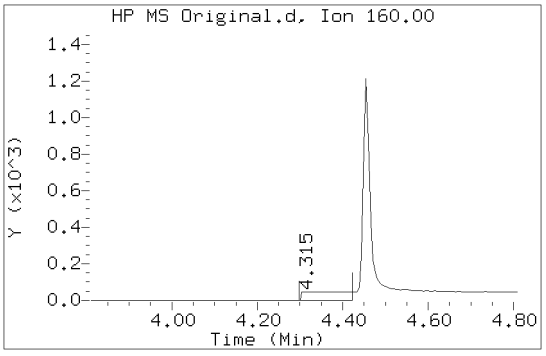
BEFORE
MASS
162
AREA
376
HEIGHT
52
29-Jun-2024
16:42
ALSHS
Server



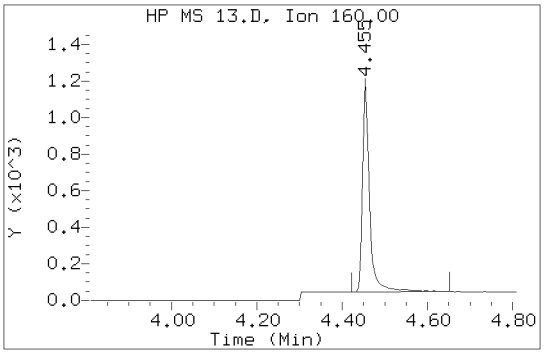
AFTER
MASS
162
AREA
3091
HEIGHT
2684
01-Jul-2024
16:33



BEFORE
MASS
160
AREA
327
HEIGHT
46
29-Jun-2024
16:42
ALSHS
Server



AFTER
MASS
160
AREA
1307
HEIGHT
1167
01-Jul-2024
16:33



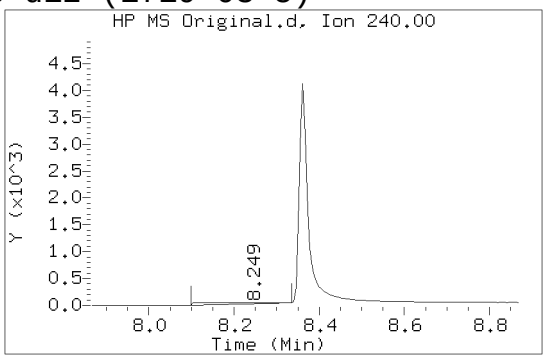
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Inj Date : 29-JUN-2024 16:25
InstruID : SV6.i
LabSampID : HS24060985-05

Chrysene-d12 (1719-03-5)

Reason Code:

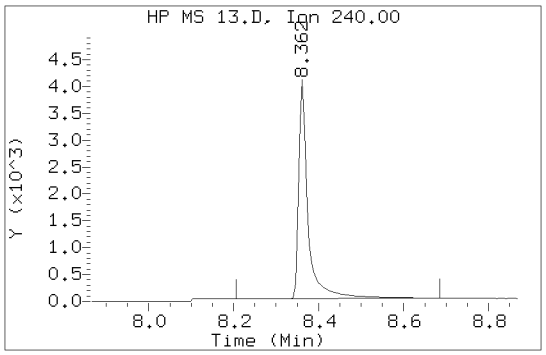
BEFORE

MASS
240
AREA
322
HEIGHT
18
29-Jun-2024
16:42
ALSHS
Server



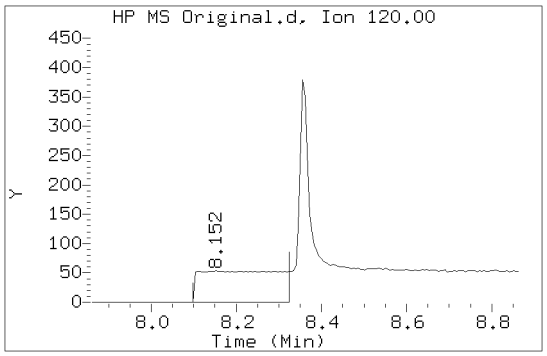
AFTER

MASS
240
AREA
6180
HEIGHT
4075
01-Jul-2024
16:33



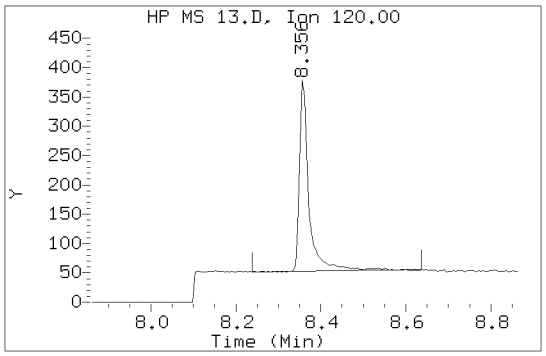
BEFORE

MASS
120
AREA
712
HEIGHT
54
29-Jun-2024
16:42
ALSHS
Server



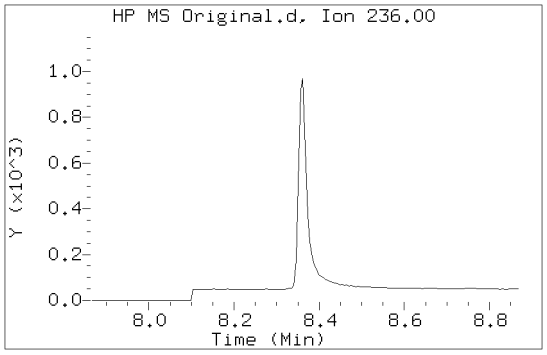
AFTER

MASS
120
AREA
500
HEIGHT
326
01-Jul-2024
16:33



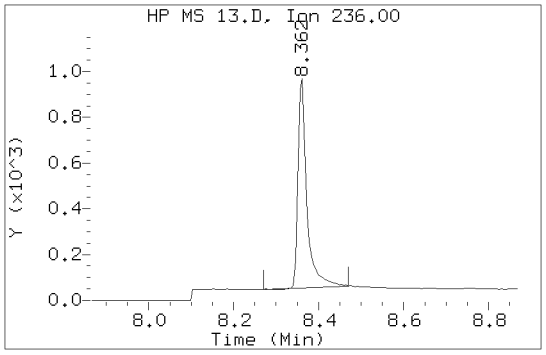
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
236
AREA
1319
HEIGHT
914
01-Jul-2024
16:33

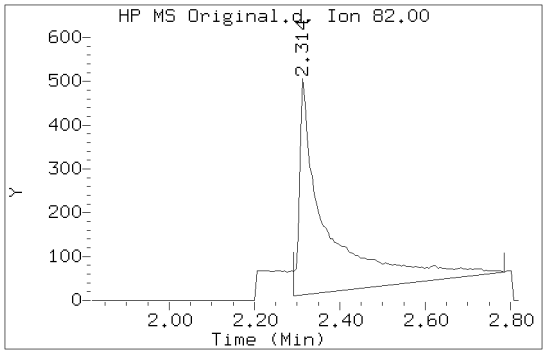


Nitrobenzene-d5 (4165-60-0)

Reason Code:

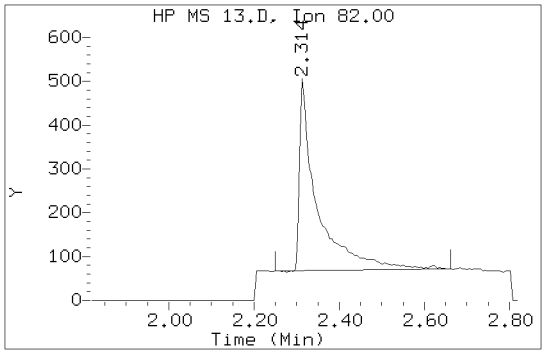
BEFORE

MASS
82
AREA
2224
HEIGHT
493
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
82
AREA
1256
HEIGHT
437
01-Jul-2024
16:33

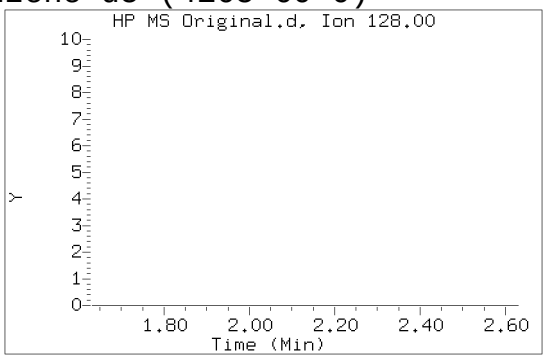


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Inj Date : 29-JUN-2024 16:25
InstruID : SV6.i
LabSampID : HS24060985-05

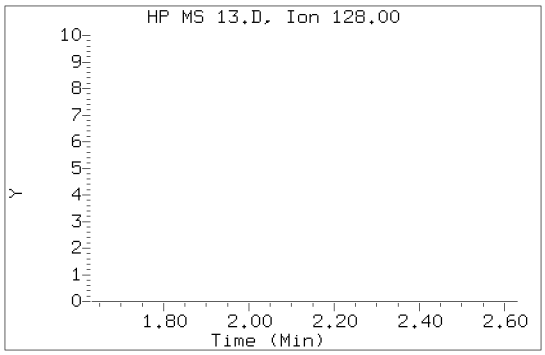
Nitrobenzene-d5 (4165-60-0)

Reason Code:

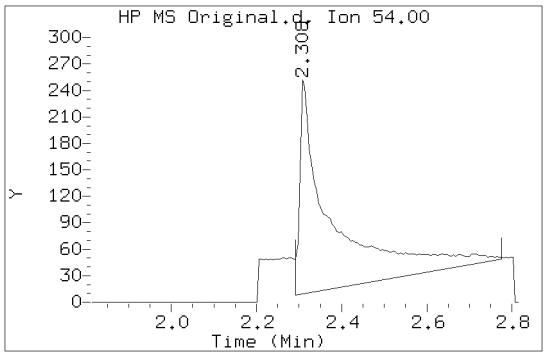
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



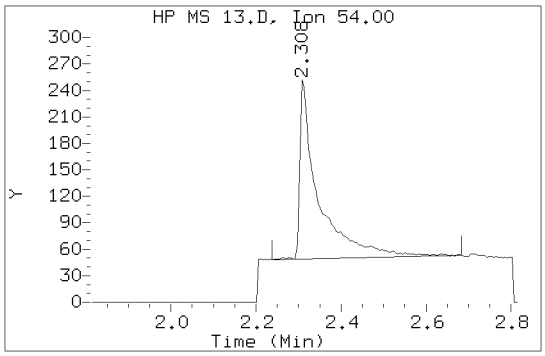
AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:33



BEFORE
MASS
54
AREA
1281
HEIGHT
242
29-Jun-2024
16:42
ALSHS
Server



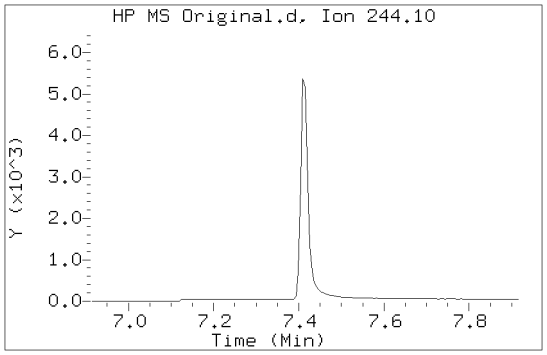
AFTER
MASS
54
AREA
622
HEIGHT
203
01-Jul-2024
16:33



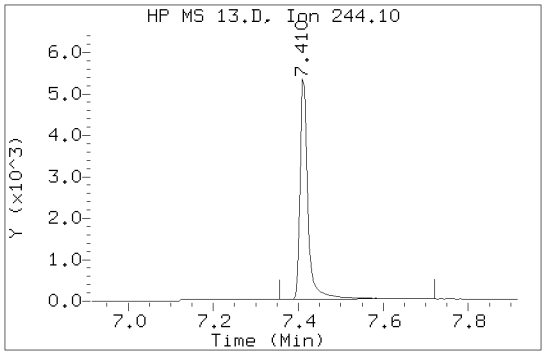
4-Terphenyl-d14 (1718-51-0)

Reason Code:

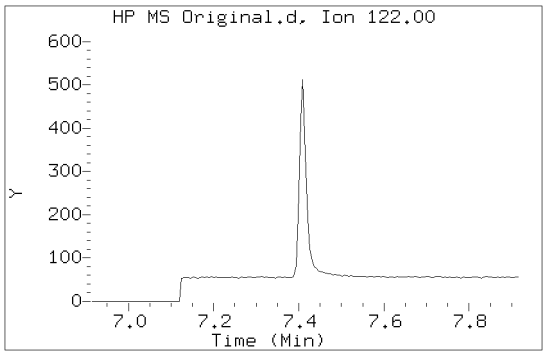
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



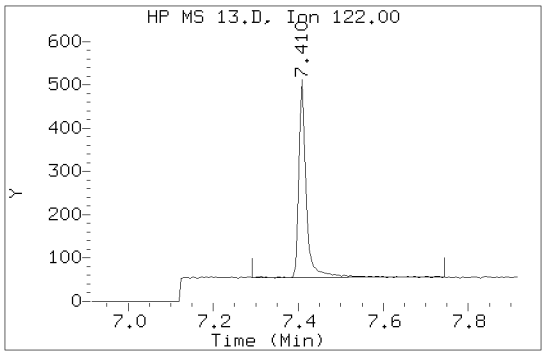
AFTER
MASS
244.1
AREA
6849
HEIGHT
5313
01-Jul-2024
16:33



BEFORE
MASS
122
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



AFTER
MASS
122
AREA
547
HEIGHT
456
01-Jul-2024
16:33



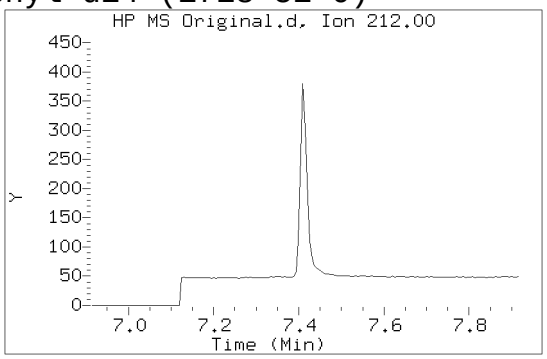
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\13.D
Inj Date : 29-JUN-2024 16:25
InstruID : SV6.i
LabSampID : HS24060985-05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

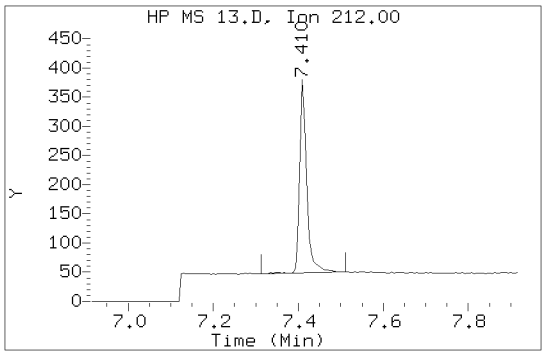
BEFORE

MASS
212
AREA
0
HEIGHT
0
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
212
AREA
376
HEIGHT
331
01-Jul-2024
16:33

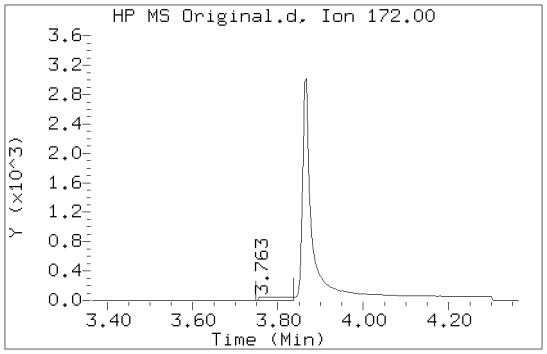


2-Fluorobiphenyl (321-60-8)

Reason Code:

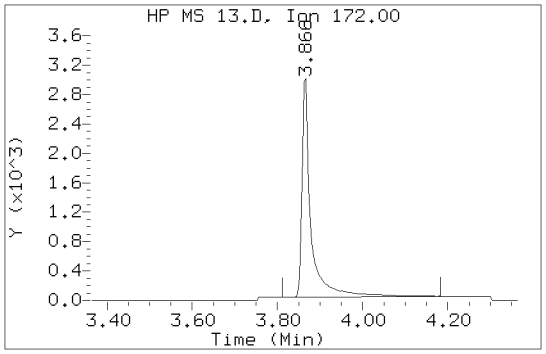
BEFORE

MASS
172
AREA
226
HEIGHT
45
29-Jun-2024
16:42
ALSHS
Server



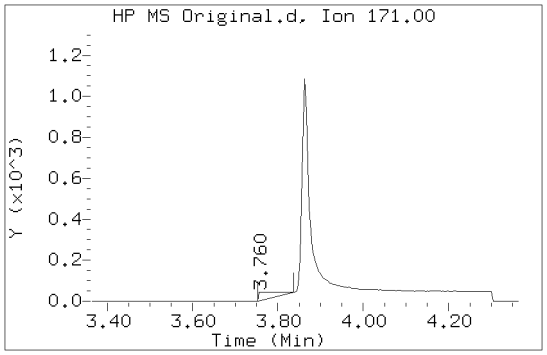
AFTER

MASS
172
AREA
4346
HEIGHT
2970
01-Jul-2024
16:33



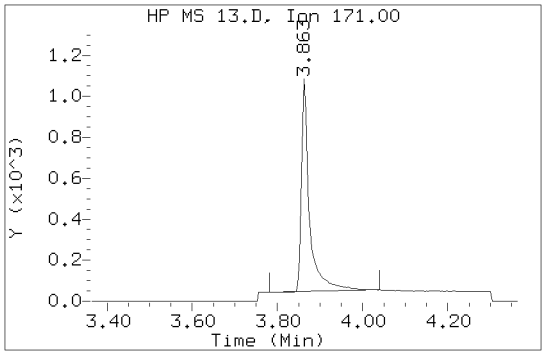
BEFORE

MASS
171
AREA
107
HEIGHT
41
29-Jun-2024
16:42
ALSHS
Server



AFTER

MASS
171
AREA
1368
HEIGHT
1037
01-Jul-2024
16:33



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\14.D Page 1
Report Date: 01-Jul-2024 16:36

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\14.D
Lab Smp Id: HS24060985-06
Inj Date : 29-JUN-2024 16:42
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	2713	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	5690	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1103	0.06457	0.06457(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3531	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	3144	0.05825	0.05825(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	6985	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	6666	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	5975	0.04400	0.04400(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	6824	0.10000	
1 1,4-Dioxane	58	0.731	0.719	(0.380)	77	0.01325	0.01325(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\240629.b\14.D

Date : 29-JUN-2024 16:42

Client ID:

Instrument: SV6.i

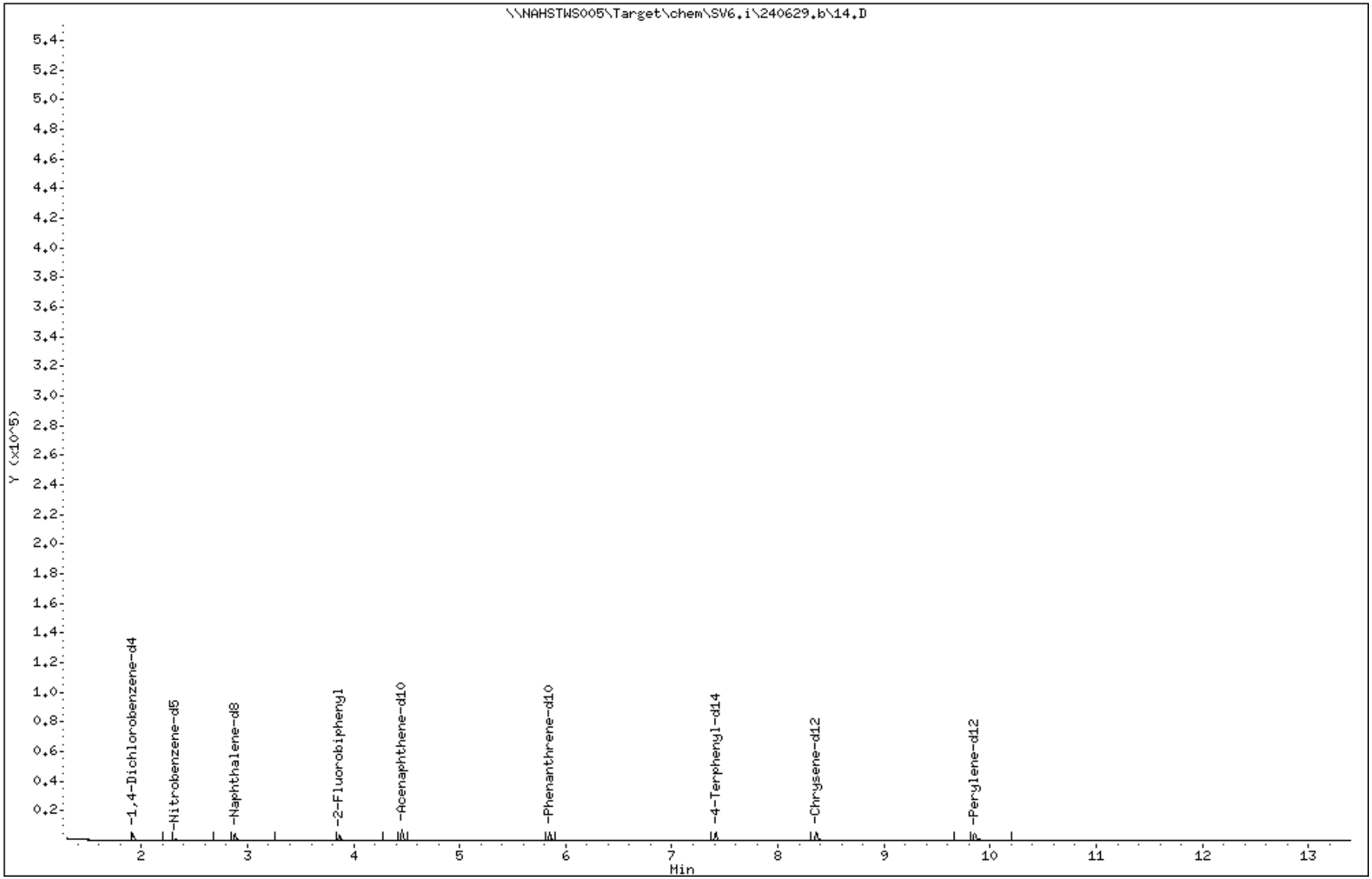
Sample Info: HS24060985-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\14.D Page 2

Date : 29-JUN-2024 16:42

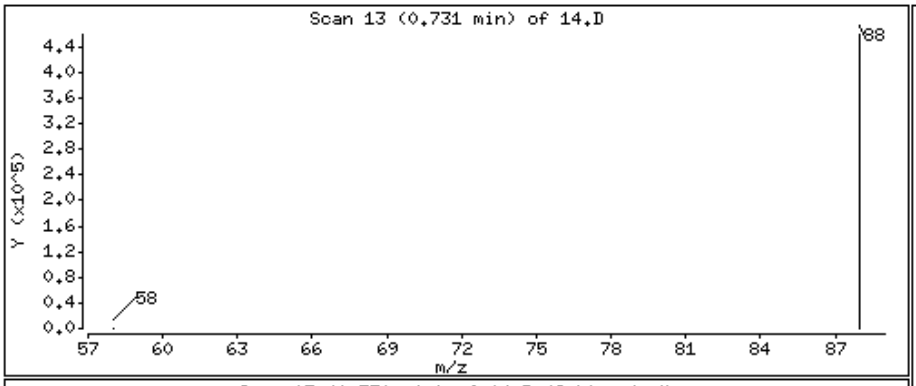
Client ID: Instrument: SV6.i

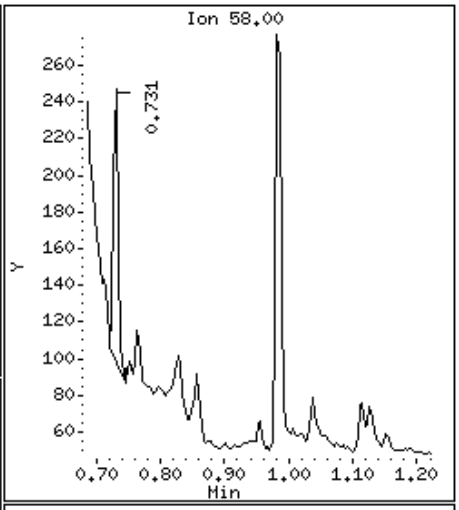
Sample Info: HS24060985-06

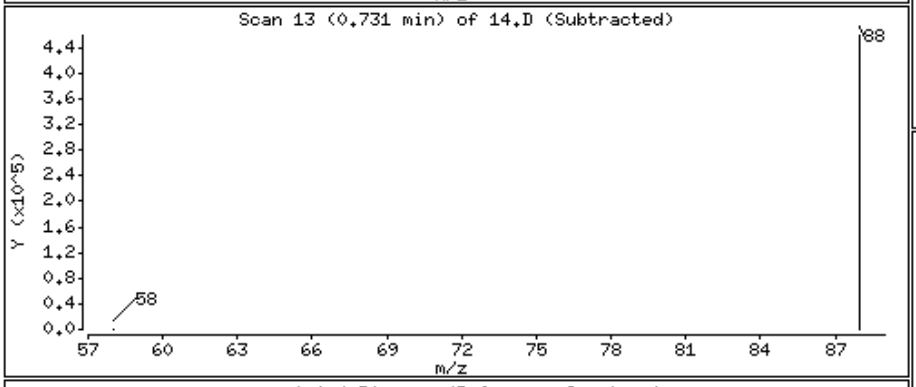
Purge Volume: 1000.0 Operator: LG

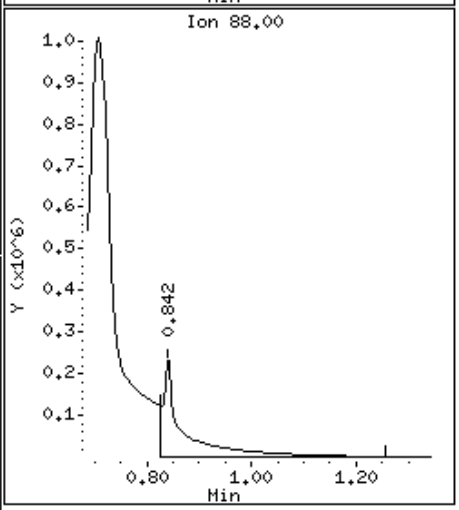
Column phase: RTX-5SIL MS Column diameter: 0.28

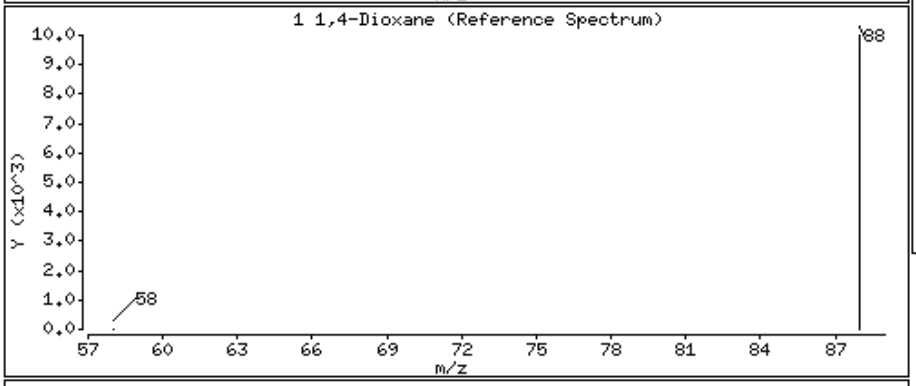
1 1,4-Dioxane Concentration: 0.01325 ug/L

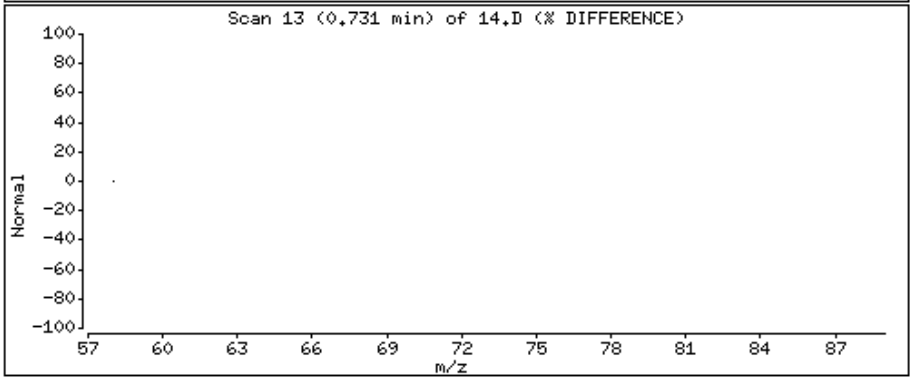












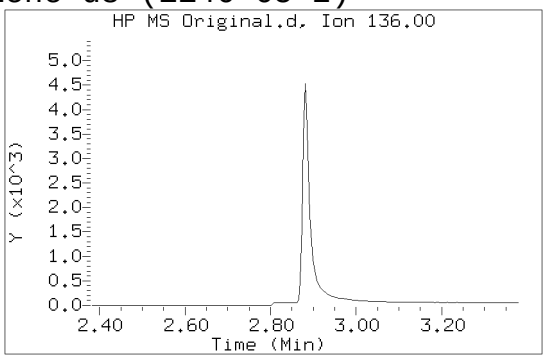
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\14.D
Inj Date : 29-JUN-2024 16:42
InstruID : SV6.i
LabSampID : HS24060985-06

Naphthalene-d8 (1146-65-2)

Reason Code:

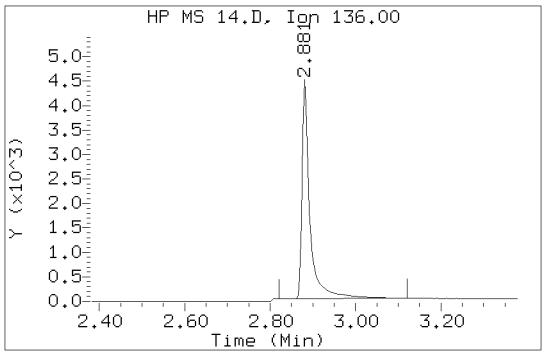
BEFORE

MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
16:57
ALSHS
Server



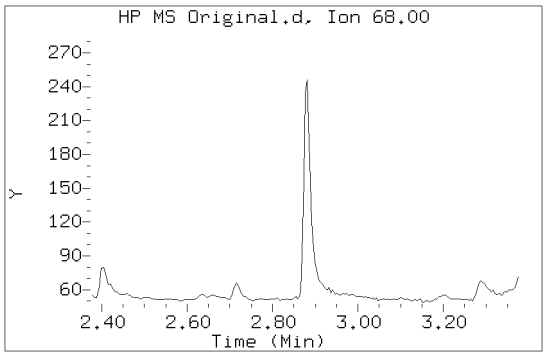
AFTER

MASS
136
AREA
5690
HEIGHT
4478
01-Jul-2024
16:36



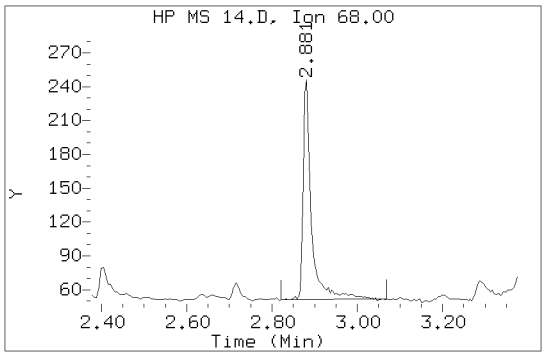
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
68
AREA
260
HEIGHT
194
01-Jul-2024
16:36

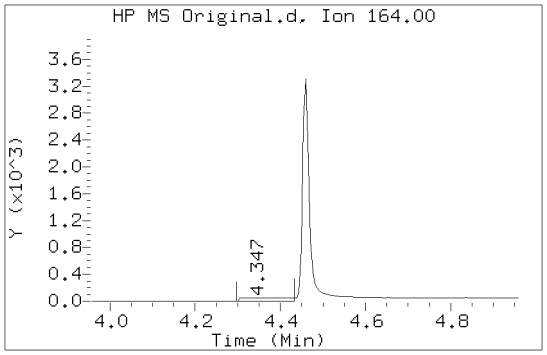


Acenaphthene-d10 (15067-26-2)

Reason Code:

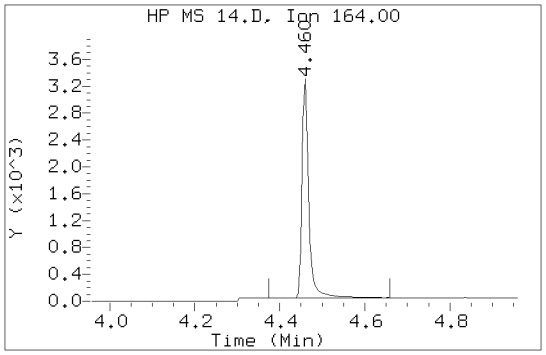
BEFORE

MASS
164
AREA
374
HEIGHT
50
29-Jun-2024
16:57
ALSHS
Server



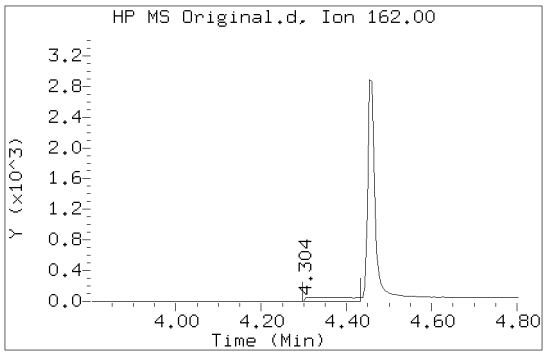
AFTER

MASS
164
AREA
3531
HEIGHT
3261
01-Jul-2024
16:36



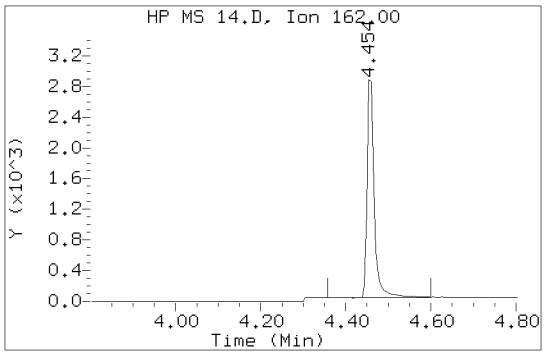
BEFORE

MASS
162
AREA
372
HEIGHT
51
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
162
AREA
3224
HEIGHT
2838
01-Jul-2024
16:36



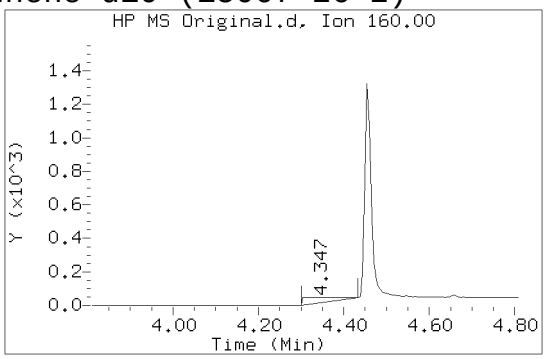
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Inj Date : 29-JUN-2024 16:42
InstruID : SV6.i
LabSampID : HS24060985-06

Acenaphthene-d10 (15067-26-2)

Reason Code:

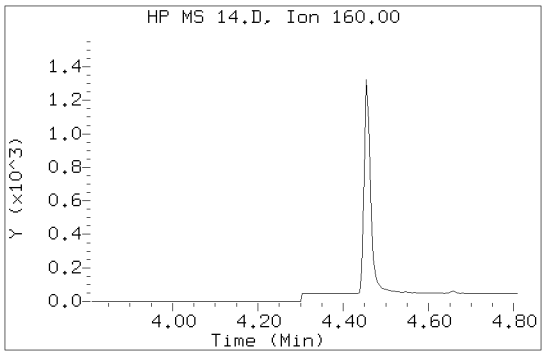
BEFORE

MASS
160
AREA
168
HEIGHT
29
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
160
AREA
1425
HEIGHT
1278
01-Jul-2024
16:36

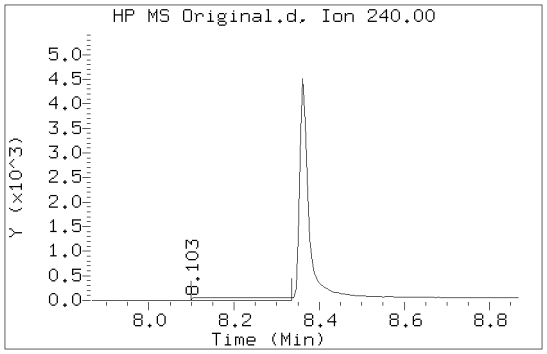


Chrysene-d12 (1719-03-5)

Reason Code:

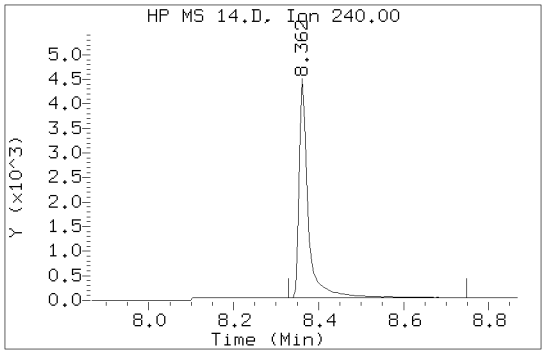
BEFORE

MASS
240
AREA
657
HEIGHT
47
29-Jun-2024
16:57
ALSHS
Server



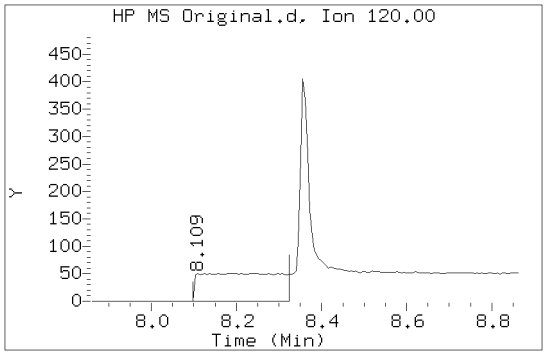
AFTER

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AREA
6666
HEIGHT
4466
01-Jul-2024
16:36



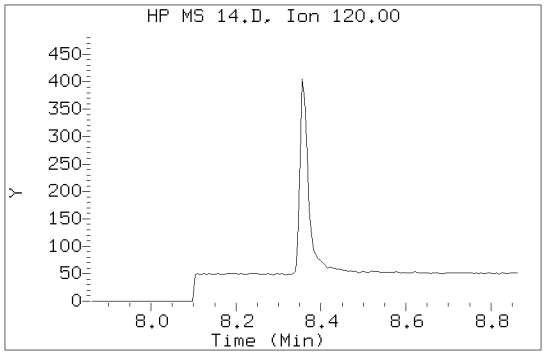
BEFORE

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AREA
667
HEIGHT
50
29-Jun-2024
16:57
ALSHS
Server



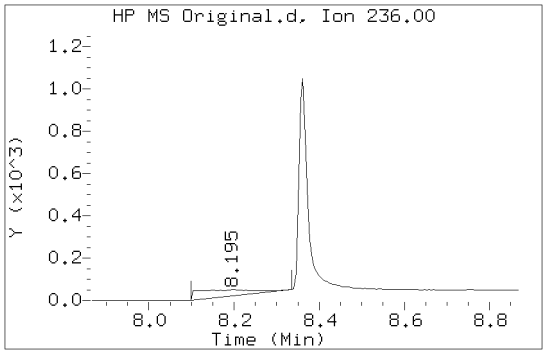
AFTER

MASS
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AREA
574
HEIGHT
355
01-Jul-2024
16:36



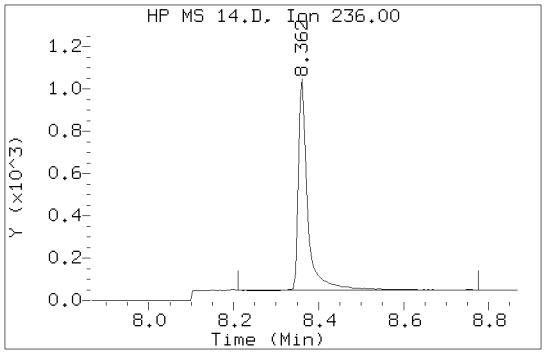
BEFORE

MASS
236
AREA
306
HEIGHT
30
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
236
AREA
1545
HEIGHT
1001
01-Jul-2024
16:36

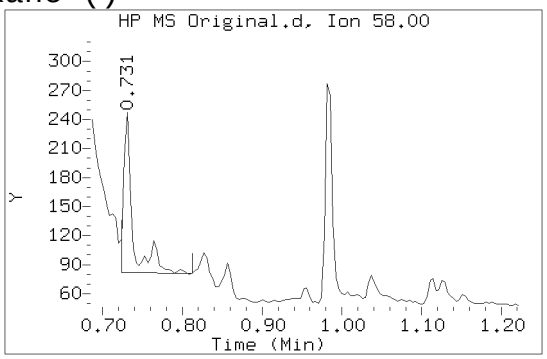


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Inj Date : 29-JUN-2024 16:42
InstruID : SV6.i
LabSampID : HS24060985-06

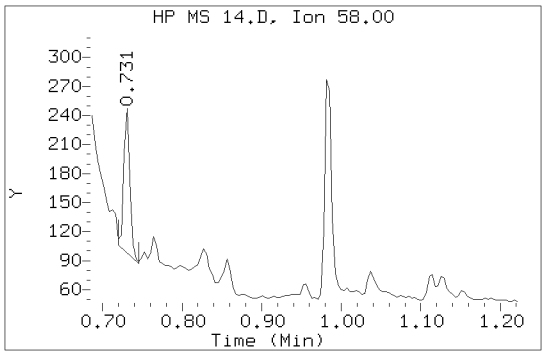
1,4-Dioxane ()

Reason Code:

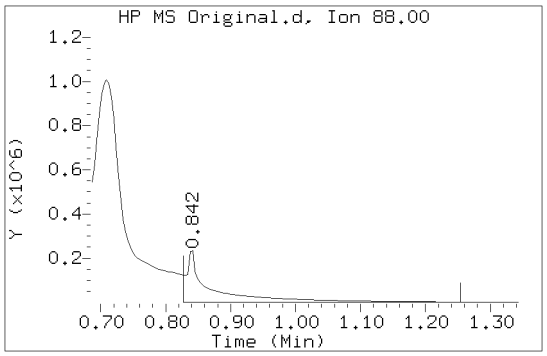
BEFORE
MASS
58
AREA
128
HEIGHT
165
29-Jun-2024
16:57
ALSHS
Server



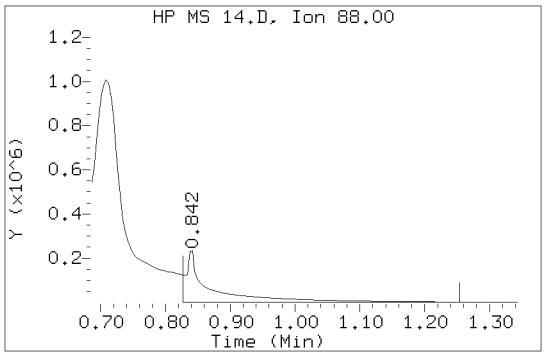
AFTER
MASS
58
AREA
77
HEIGHT
149
01-Jul-2024
16:36



BEFORE
MASS
88
AREA
589189
HEIGHT
231988
29-Jun-2024
16:57
ALSHS
Server



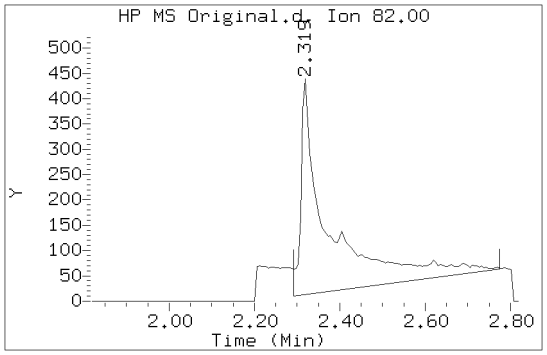
AFTER
MASS
88
AREA
589189
HEIGHT
231988
01-Jul-2024
16:36



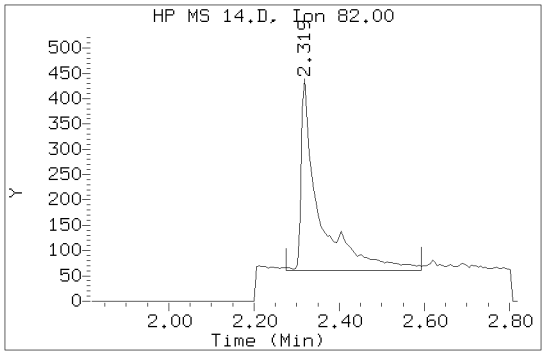
Nitrobenzene-d5 (4165-60-0)

Reason Code:

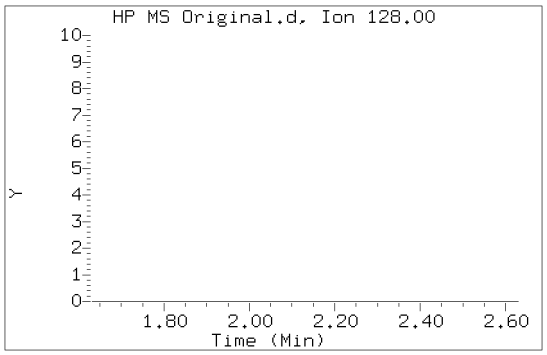
BEFORE
MASS
82
AREA
1899
HEIGHT
426
29-Jun-2024
16:57
ALSHS
Server



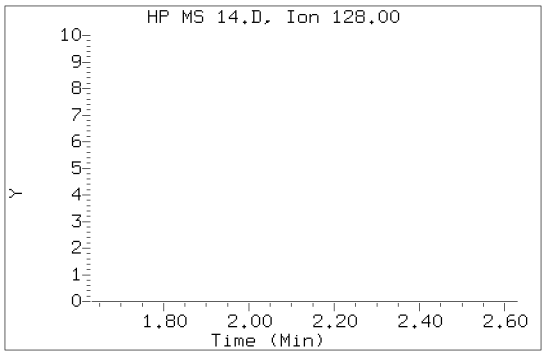
AFTER
MASS
82
AREA
1103
HEIGHT
378
01-Jul-2024
16:36



BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
16:57
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:36



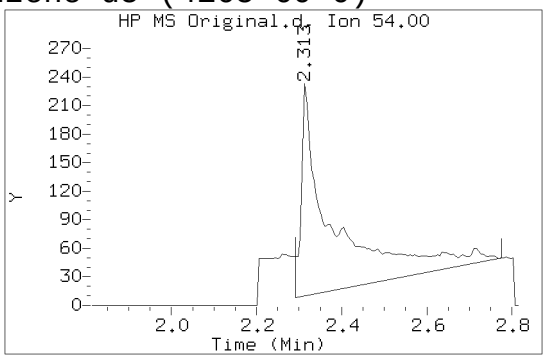
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Inj Date : 29-JUN-2024 16:42
InstruID : SV6.i
LabSampID : HS24060985-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

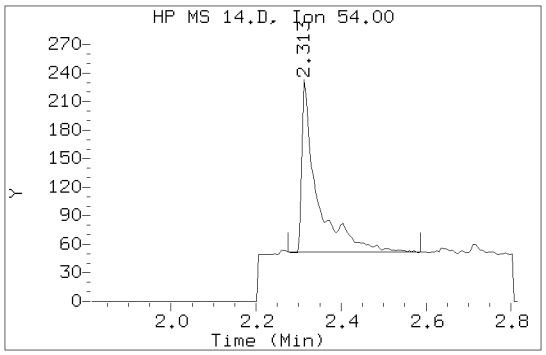
BEFORE

MASS
54
AREA
1130
HEIGHT
223
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
54
AREA
446
HEIGHT
181
01-Jul-2024
16:36

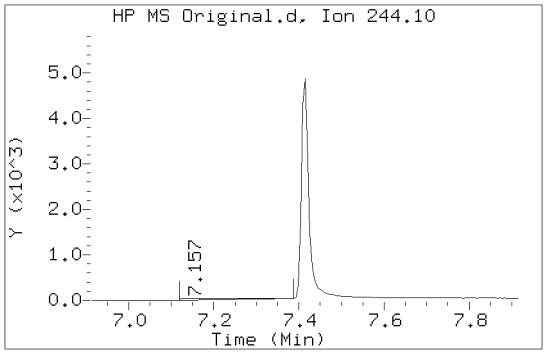


4-Terphenyl-d14 (1718-51-0)

Reason Code:

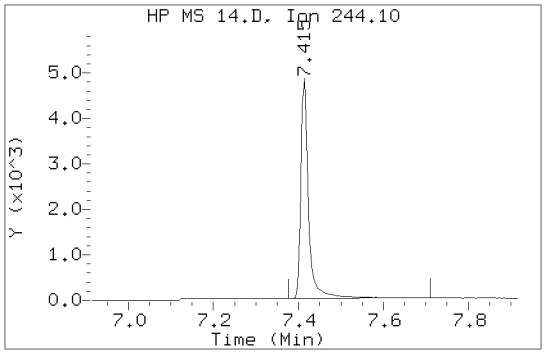
BEFORE

MASS
244.1
AREA
351
HEIGHT
39
29-Jun-2024
16:57
ALSHS
Server



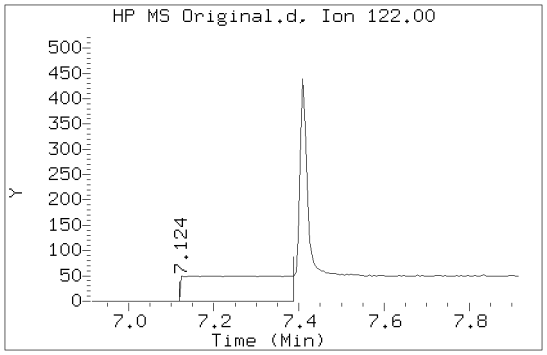
AFTER

MASS
244.1
AREA
5975
HEIGHT
4827
01-Jul-2024
16:36



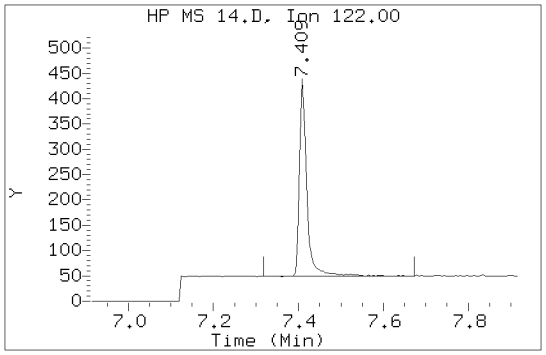
BEFORE

MASS
122
AREA
793
HEIGHT
50
29-Jun-2024
16:57
ALSHS
Server



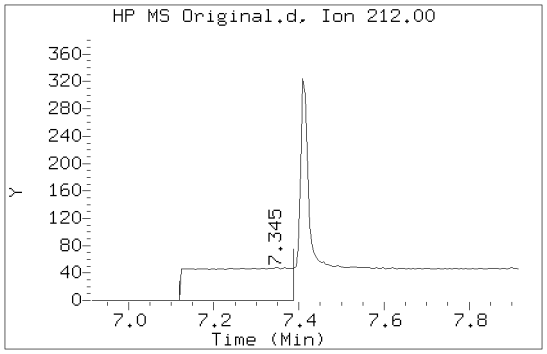
AFTER

MASS
122
AREA
466
HEIGHT
389
01-Jul-2024
16:36



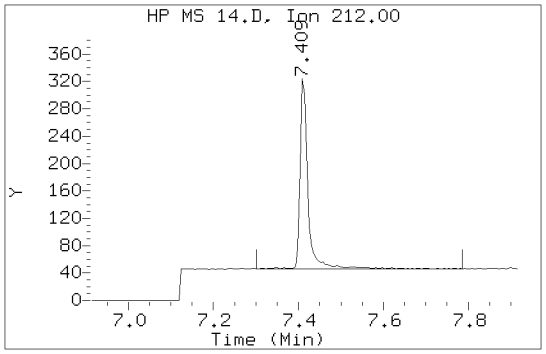
BEFORE

MASS
212
AREA
748
HEIGHT
48
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
212
AREA
364
HEIGHT
278
01-Jul-2024
16:36



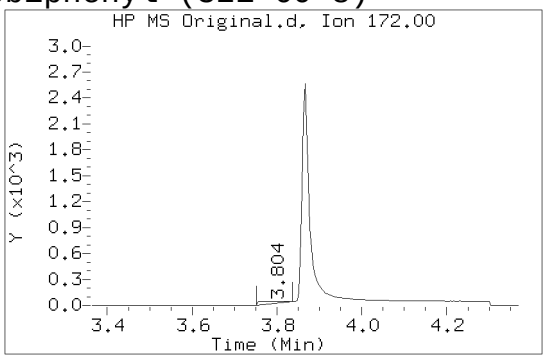
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\14.D
Inj Date : 29-JUN-2024 16:42
InstruID : SV6.i
LabSampID : HS24060985-06

2-Fluorobiphenyl (321-60-8)

Reason Code:

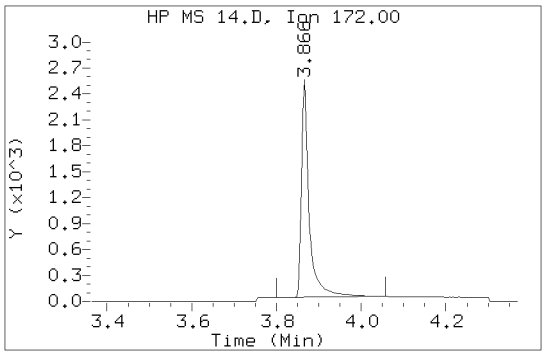
BEFORE

MASS
172
AREA
105
HEIGHT
17
29-Jun-2024
16:57
ALSHS
Server



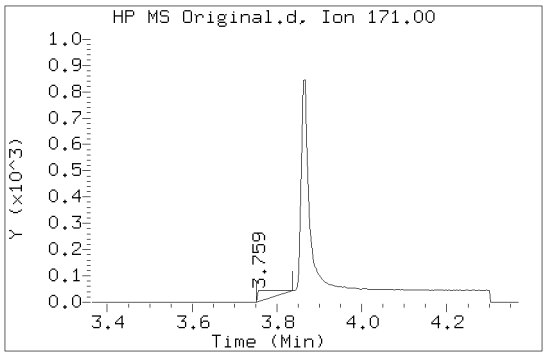
AFTER

MASS
172
AREA
3144
HEIGHT
2517
01-Jul-2024
16:36



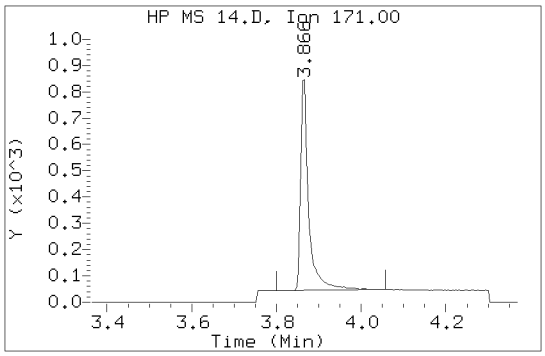
BEFORE

MASS
171
AREA
105
HEIGHT
41
29-Jun-2024
16:57
ALSHS
Server



AFTER

MASS
171
AREA
1052
HEIGHT
799
01-Jul-2024
16:36



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D Page 1
Report Date: 01-Jul-2024 16:38

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D
Lab Smp Id: HS24060985-07
Inj Date : 29-JUN-2024 17:00
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-07
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: 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	1.916	1.916	(1.000)	2405	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	4543	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.313	2.318	(0.803)	1123	0.08234	0.08234(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	2938	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	3315	0.07381	0.07381(M)
* 126 Phenanthrene-d10	188	5.850	5.855	(1.000)	5815	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	5336	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	6372	0.05862	0.05862(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	5625	0.10000	
1 1,4-Dioxane	58	0.720	0.719	(0.376)	95	0.01844	0.01844(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\240629.b\15.D

Date : 29-JUN-2024 17:00

Client ID:

Instrument: SV6.i

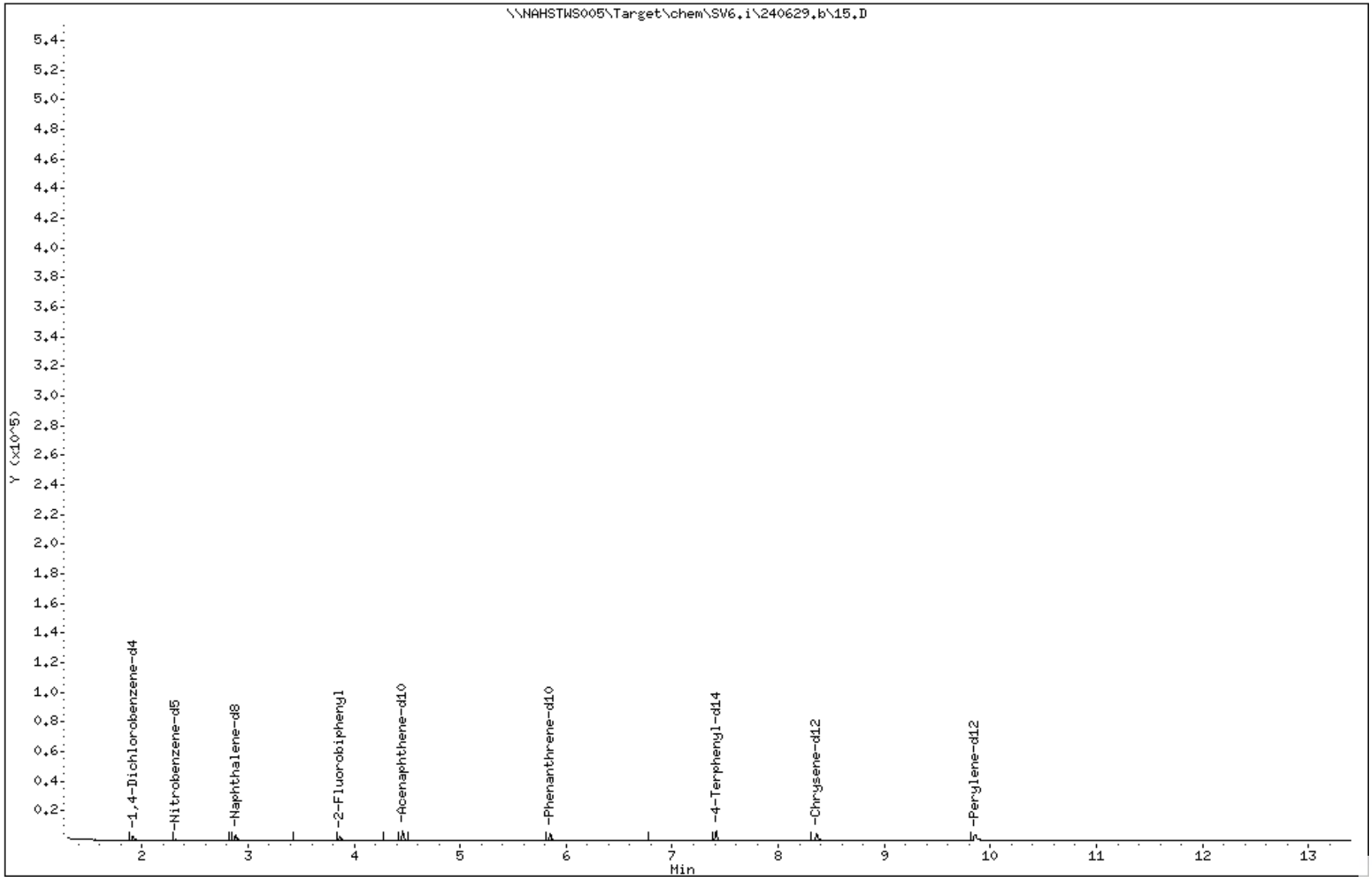
Sample Info: HS24060985-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D

Date : 29-JUN-2024 17:00

Client ID:

Instrument: SV6.i

Sample Info: HS24060985-07

Purge Volume: 1000.0

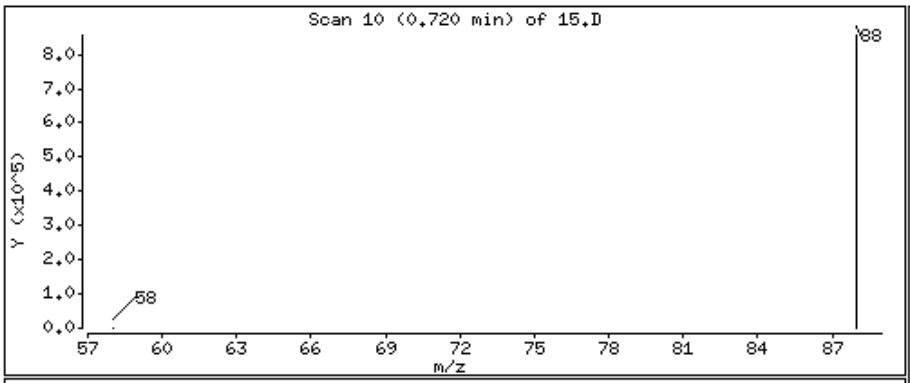
Operator: LG

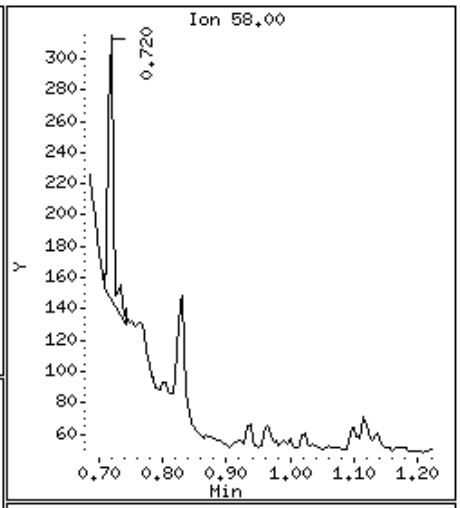
Column phase: RTX-5SIL MS

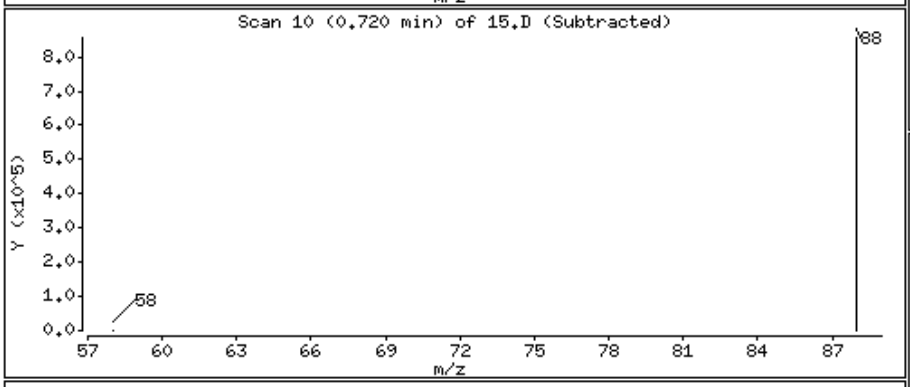
Column diameter: 0.28

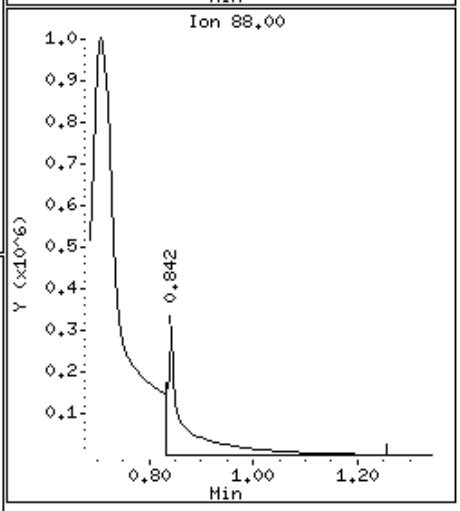
1 1,4-Dioxane

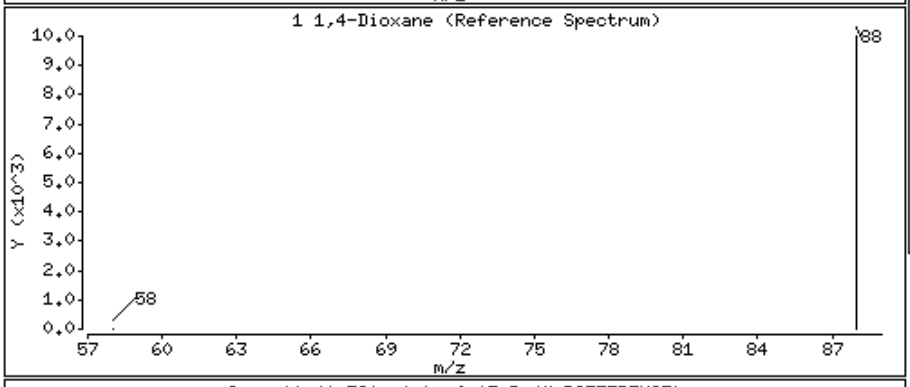
Concentration: 0.01844 ug/L

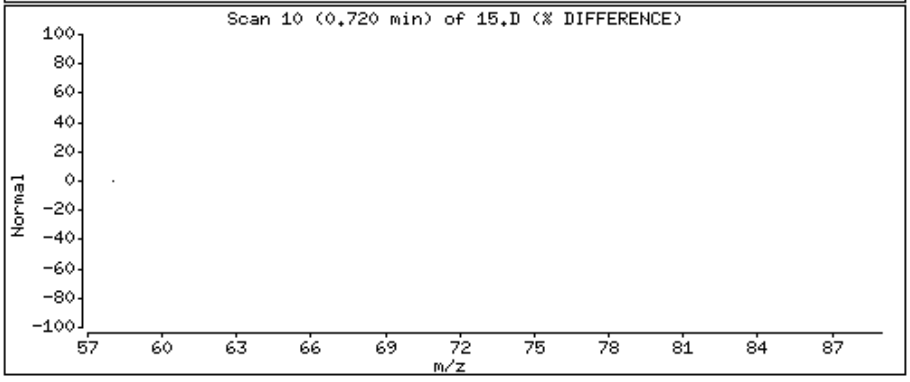












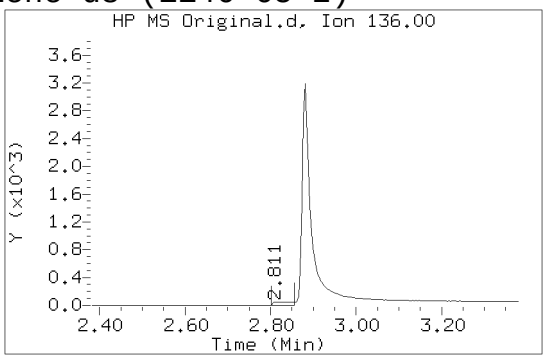
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Inj Date : 29-JUN-2024 17:00
InstruID : SV6.i
LabSampID : HS24060985-07

Naphthalene-d8 (1146-65-2)

Reason Code:

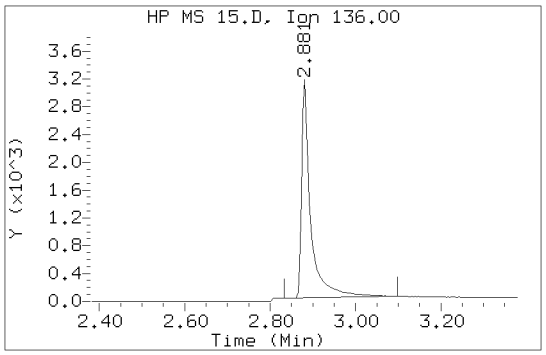
BEFORE

MASS
136
AREA
150
HEIGHT
48
29-Jun-2024
17:16
ALSHS
Server



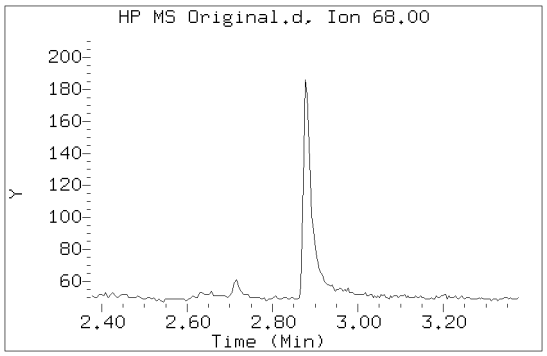
AFTER

MASS
136
AREA
4543
HEIGHT
3138
01-Jul-2024
16:38



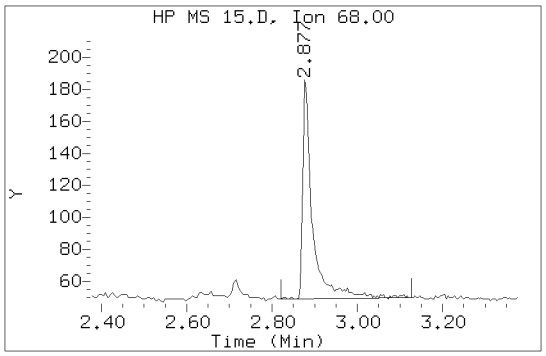
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
17:16
ALSHS
Server



AFTER

MASS
68
AREA
217
HEIGHT
136
01-Jul-2024
16:38

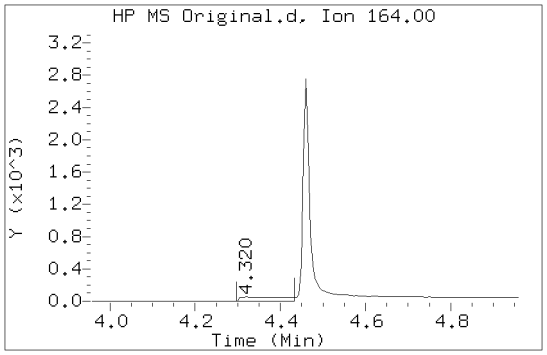


Acenaphthene-d10 (15067-26-2)

Reason Code:

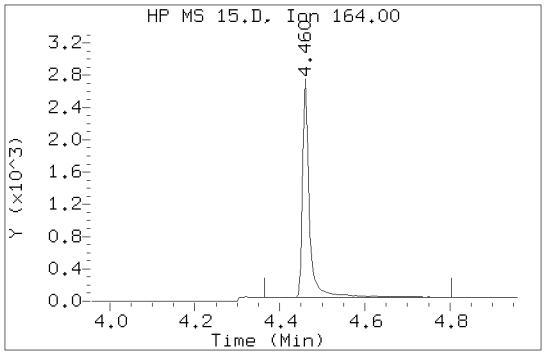
BEFORE

MASS
164
AREA
386
HEIGHT
52
29-Jun-2024
17:16
ALSHS
Server



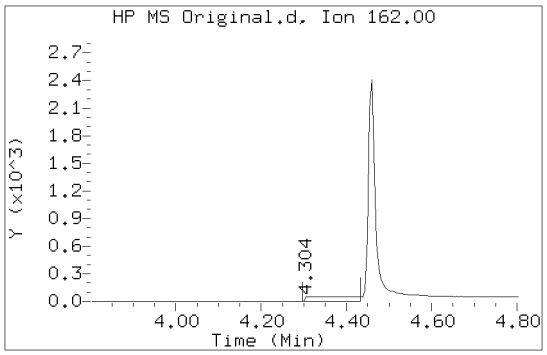
AFTER

MASS
164
AREA
2938
HEIGHT
2704
01-Jul-2024
16:38



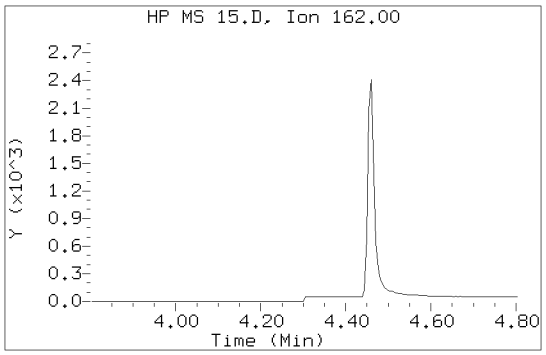
BEFORE

MASS
162
AREA
372
HEIGHT
51
29-Jun-2024
17:16
ALSHS
Server



AFTER

MASS
162
AREA
2578
HEIGHT
2359
01-Jul-2024
16:38



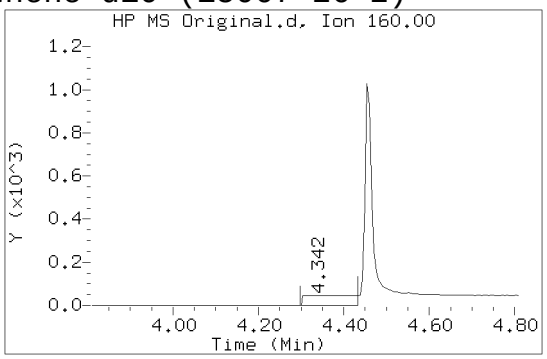
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D
Inj Date : 29-JUN-2024 17:00
InstruID : SV6.i
LabSampID : HS24060985-07

Acenaphthene-d10 (15067-26-2)

Reason Code:

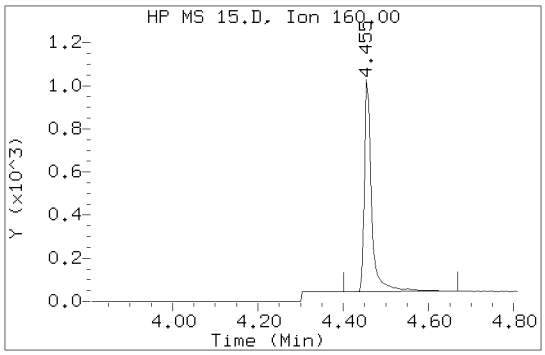
BEFORE

MASS
160
AREA
353
HEIGHT
46
29-Jun-2024
17:16
ALSHS
Server



AFTER

MASS
160
AREA
1140
HEIGHT
982
01-Jul-2024
16:38

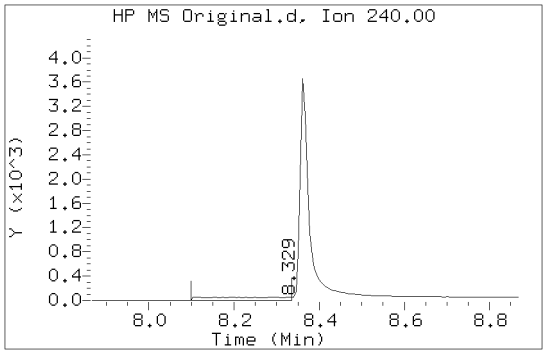


Chrysene-d12 (1719-03-5)

Reason Code:

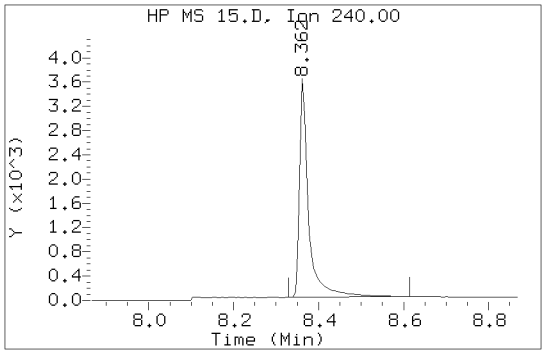
BEFORE

MASS
240
AREA
674
HEIGHT
49
29-Jun-2024
17:16
ALSHS
Server



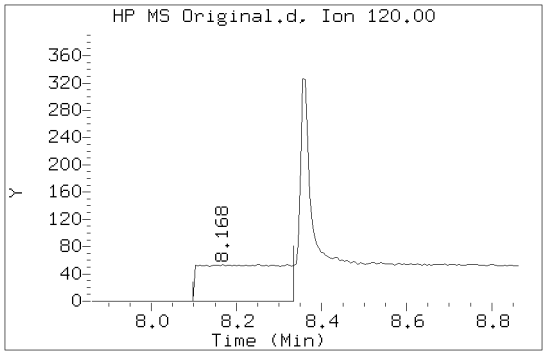
AFTER

MASS
240
AREA
5336
HEIGHT
3605
01-Jul-2024
16:38



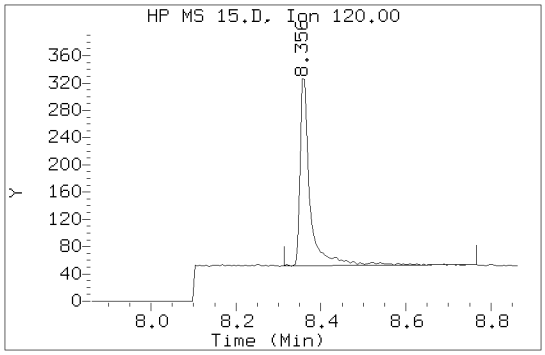
BEFORE

MASS
120
AREA
745
HEIGHT
54
29-Jun-2024
17:16
ALSHS
Server



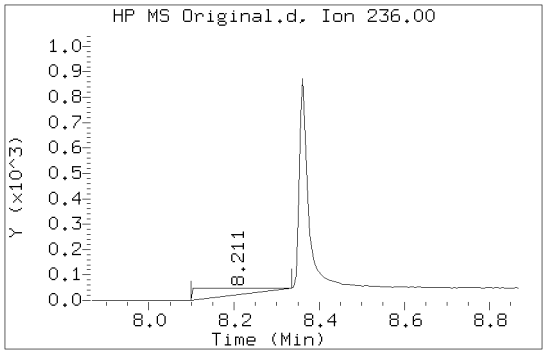
AFTER

MASS
120
AREA
447
HEIGHT
273
01-Jul-2024
16:38



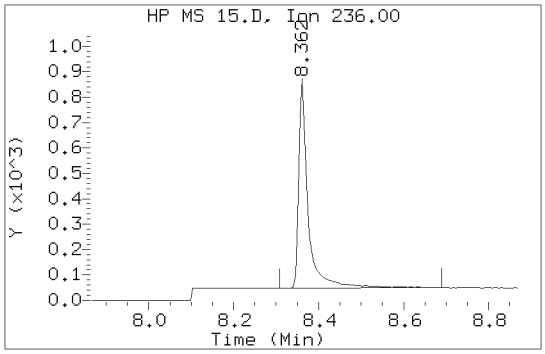
BEFORE

MASS
236
AREA
323
HEIGHT
25
29-Jun-2024
17:16
ALSHS
Server



AFTER

MASS
236
AREA
1254
HEIGHT
825
01-Jul-2024
16:38

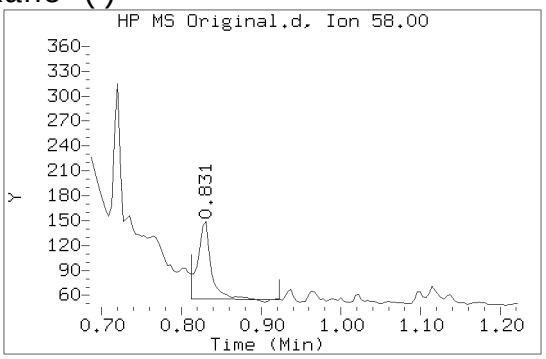


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D
Inj Date : 29-JUN-2024 17:00
InstruID : SV6.i
LabSampID : HS24060985-07

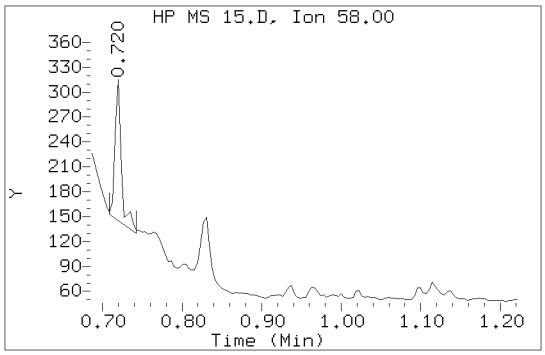
1,4-Dioxane ()

Reason Code:

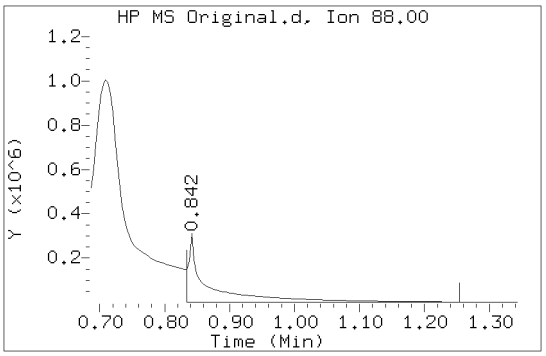
BEFORE
MASS
58
AREA
108
HEIGHT
93
29-Jun-2024
17:16
ALSHS
Server



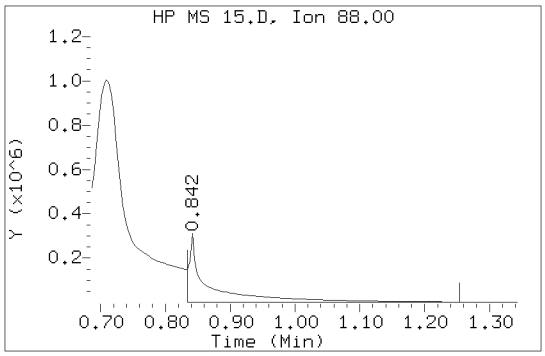
AFTER
MASS
58
AREA
95
HEIGHT
169
01-Jul-2024
16:38



BEFORE
MASS
88
AREA
615213
HEIGHT
308271
29-Jun-2024
17:16
ALSHS
Server



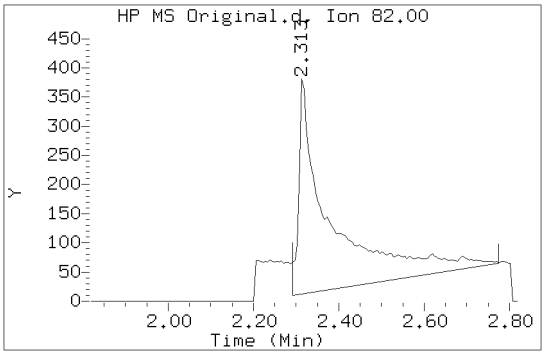
AFTER
MASS
88
AREA
615213
HEIGHT
308271
01-Jul-2024
16:38



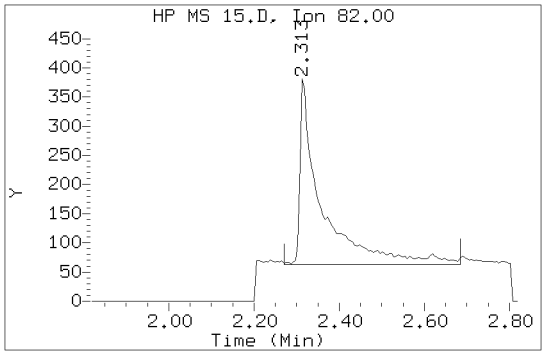
Nitrobenzene-d5 (4165-60-0)

Reason Code:

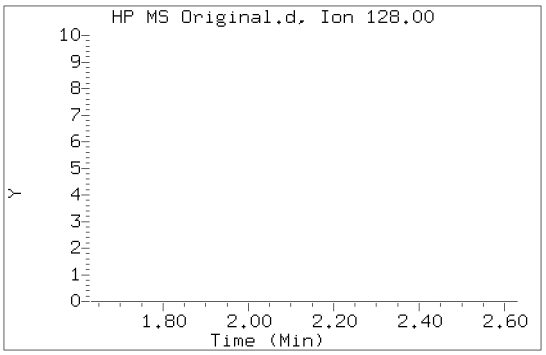
BEFORE
MASS
82
AREA
1904
HEIGHT
368
29-Jun-2024
17:16
ALSHS
Server



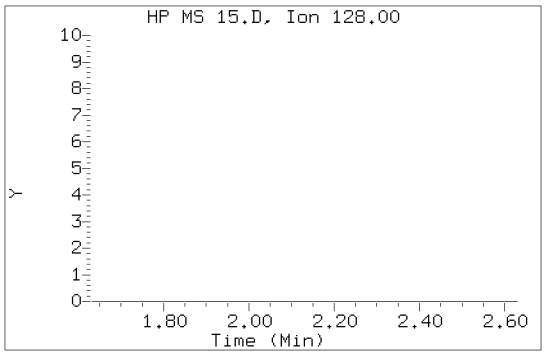
AFTER
MASS
82
AREA
1123
HEIGHT
318
01-Jul-2024
16:38



BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
17:16
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
16:38

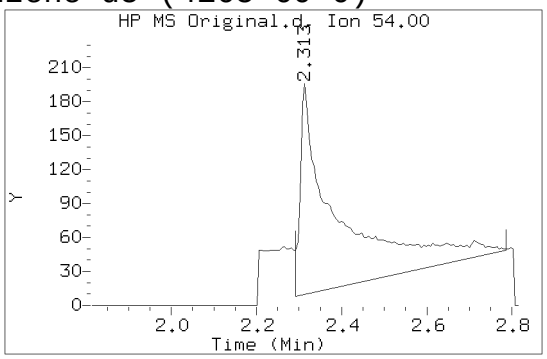


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\15.D
Inj Date : 29-JUN-2024 17:00
InstruID : SV6.i
LabSampID : HS24060985-07

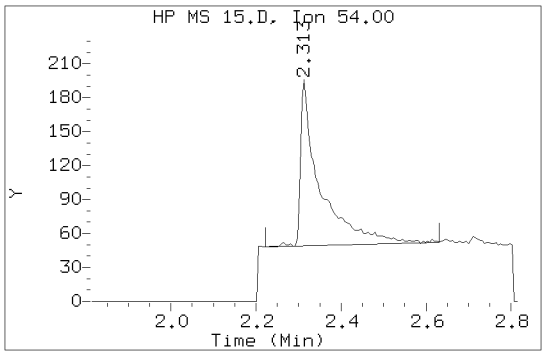
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
1144
HEIGHT
186
29-Jun-2024
17:16
ALSHS
Server



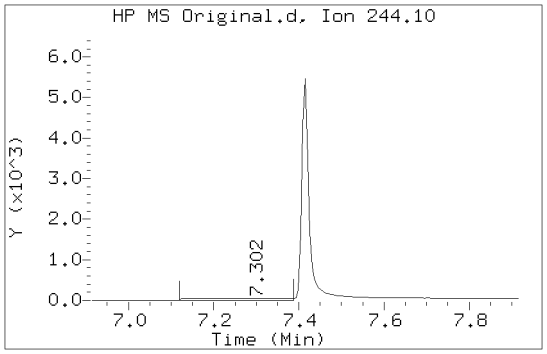
AFTER
MASS
54
AREA
474
HEIGHT
147
01-Jul-2024
16:38



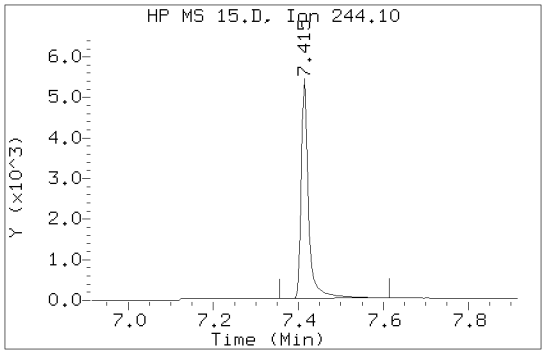
4-Terphenyl-d14 (1718-51-0)

Reason Code:

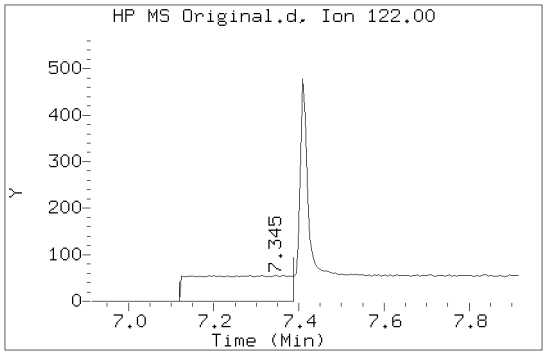
BEFORE
MASS
244.1
AREA
753
HEIGHT
48
29-Jun-2024
17:16
ALSHS
Server



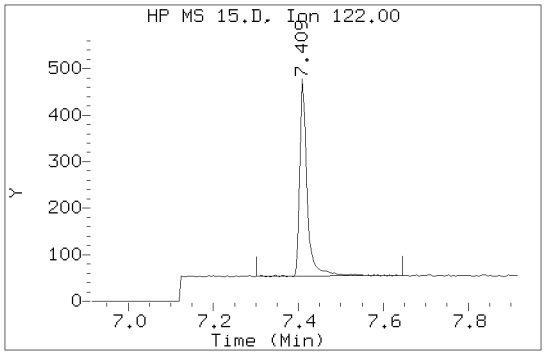
AFTER
MASS
244.1
AREA
6372
HEIGHT
5412
01-Jul-2024
16:38



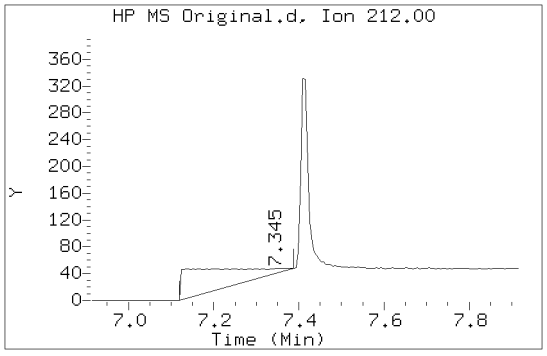
BEFORE
MASS
122
AREA
867
HEIGHT
56
29-Jun-2024
17:16
ALSHS
Server



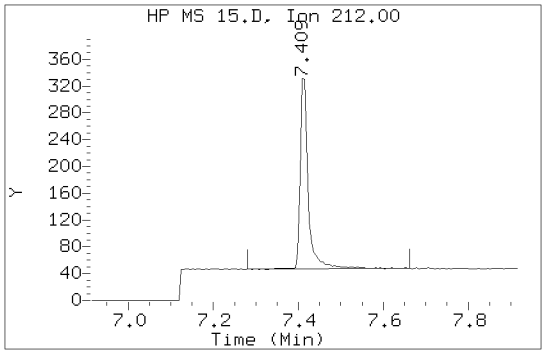
AFTER
MASS
122
AREA
504
HEIGHT
423
01-Jul-2024
16:38



BEFORE
MASS
212
AREA
360
HEIGHT
7
29-Jun-2024
17:16
ALSHS
Server



AFTER
MASS
212
AREA
367
HEIGHT
283
01-Jul-2024
16:38

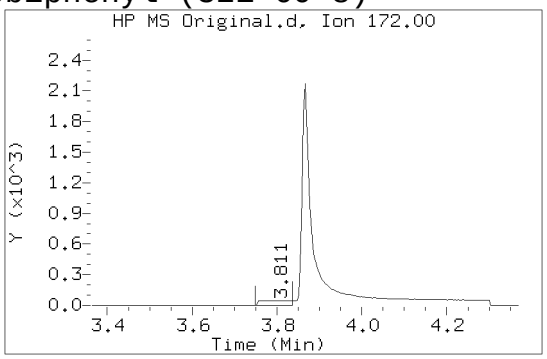


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Inj Date : 29-JUN-2024 17:00
InstruID : SV6.i
LabSampID : HS24060985-07

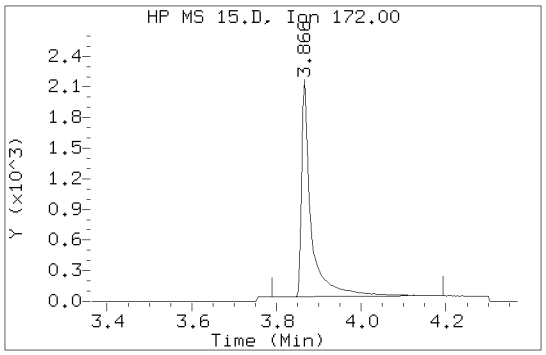
2-Fluorobiphenyl (321-60-8)

Reason Code:

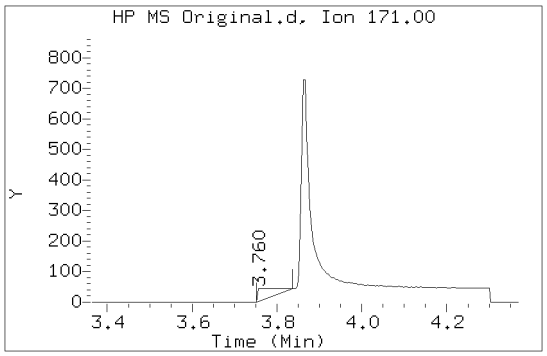
BEFORE
MASS
172
AREA
224
HEIGHT
45
29-Jun-2024
17:16
ALSHS
Server



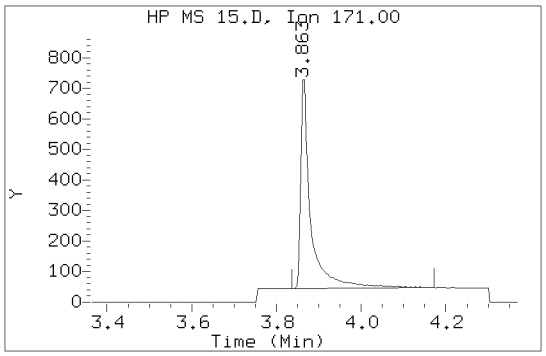
AFTER
MASS
172
AREA
3315
HEIGHT
2124
01-Jul-2024
16:38



BEFORE
MASS
171
AREA
105
HEIGHT
41
29-Jun-2024
17:16
ALSHS
Server



AFTER
MASS
171
AREA
1109
HEIGHT
682
01-Jul-2024
16:38



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 19:19
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23 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	1.916	1.916	(1.000)	1978	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	6976	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1381	0.08000	0.06594(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	2152	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2393	0.08000	0.07274(M)
* 126 Phenanthrene-d10	188	5.855	5.855	(1.000)	6903	0.10000	(M)
* 182 Chrysene-d12	240	8.366	8.366	(1.000)	6088	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.886)	5754	0.08000	0.04639(M)
* 198 Perylene-d12	264	9.861	9.861	(1.000)	7898	0.10000	(M)
1 1,4-Dioxane	58	0.719	0.719	(0.376)	285	0.08000	0.06727(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\240629.b\23.D

Date : 29-JUN-2024 19:19

Client ID: 14DX-0.08

Instrument: SV6.i

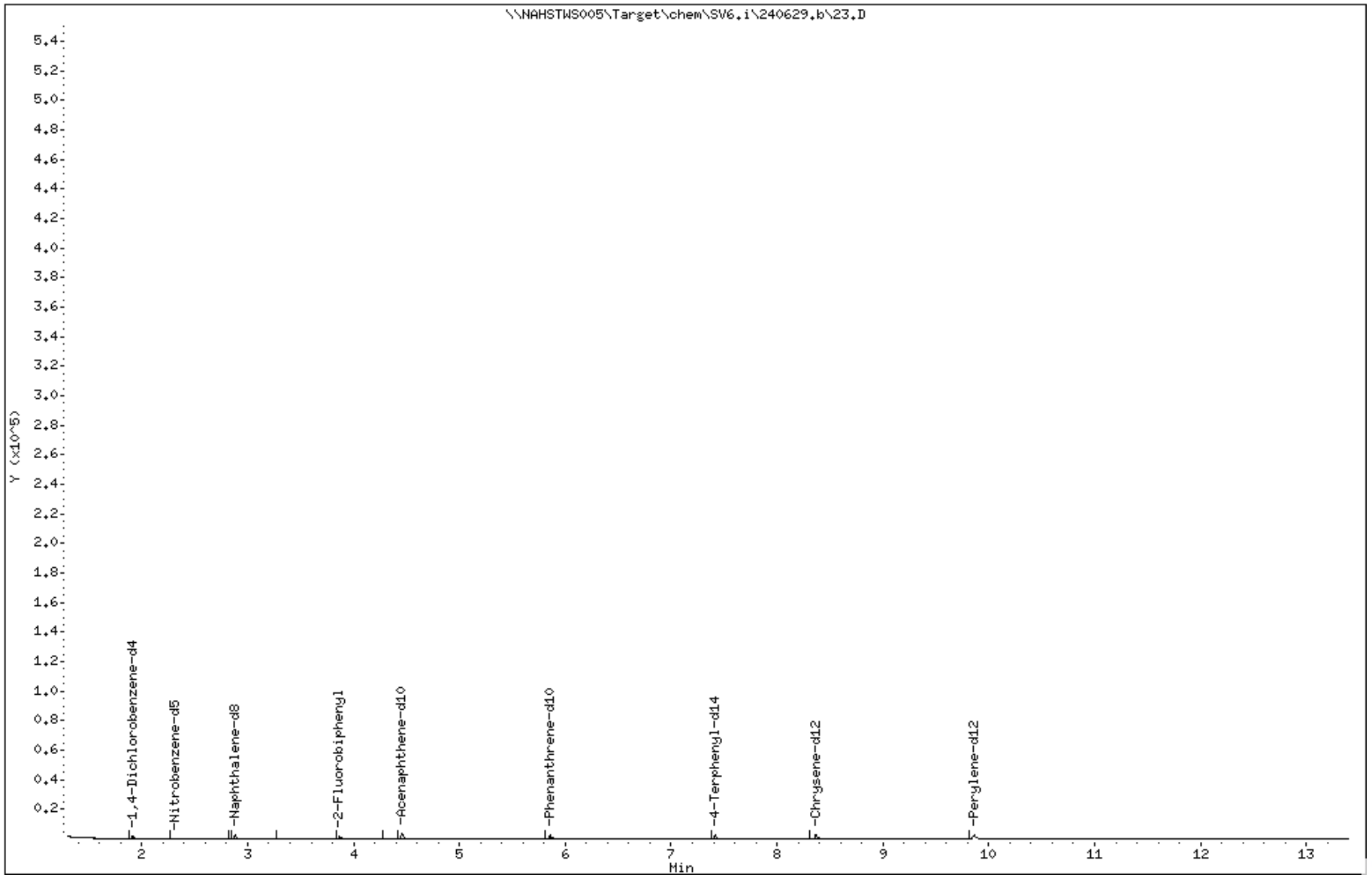
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

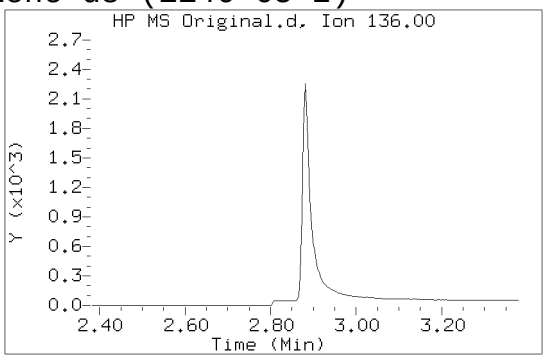


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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

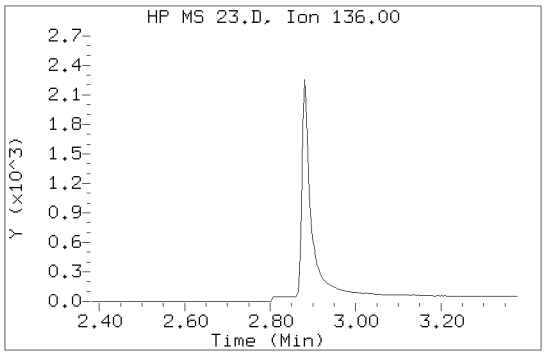
Naphthalene-d8 (1146-65-2)

Reason Code:

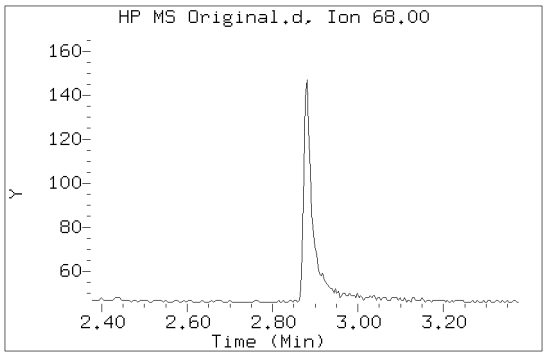
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



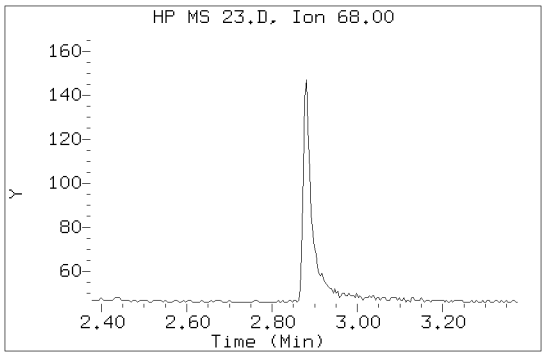
AFTER
MASS
136
AREA
6976
HEIGHT
2254
01-Jul-2024
08:34



BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



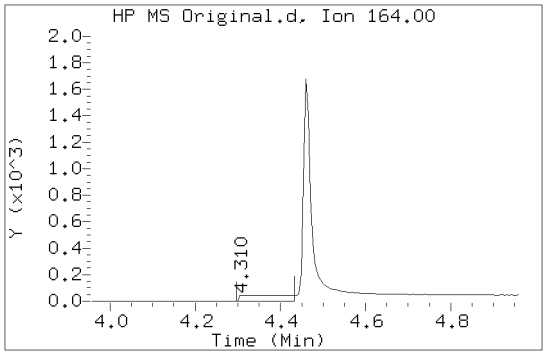
AFTER
MASS
68
AREA
0
HEIGHT
0
01-Jul-2024
08:34



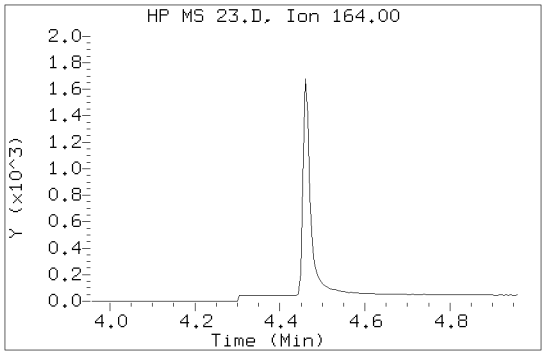
Acenaphthene-d10 (15067-26-2)

Reason Code:

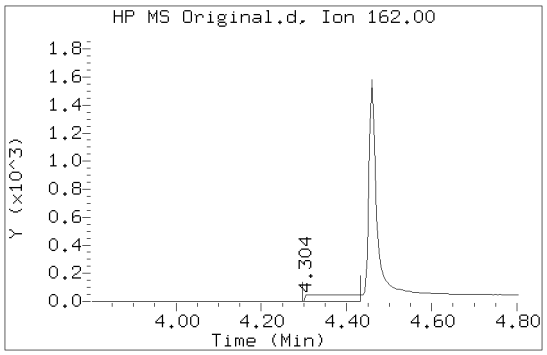
BEFORE
MASS
164
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



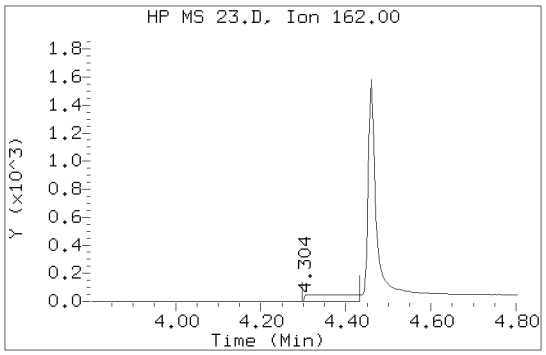
AFTER
MASS
164
AREA
2152
HEIGHT
1632
01-Jul-2024
08:34



BEFORE
MASS
162
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
162
AREA
353
HEIGHT
46
01-Jul-2024
08:34



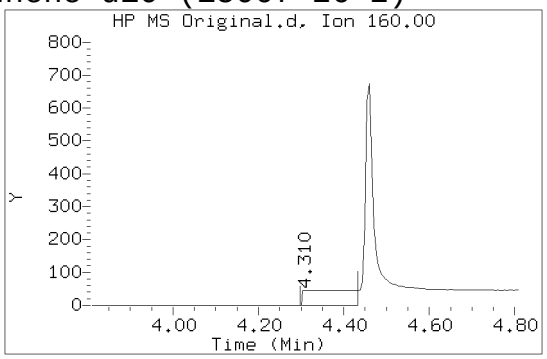
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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

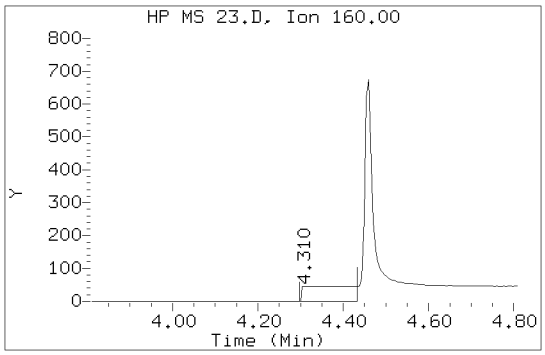
BEFORE

MASS
160
AREA
347
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
160
AREA
347
HEIGHT
45
01-Jul-2024
08:34

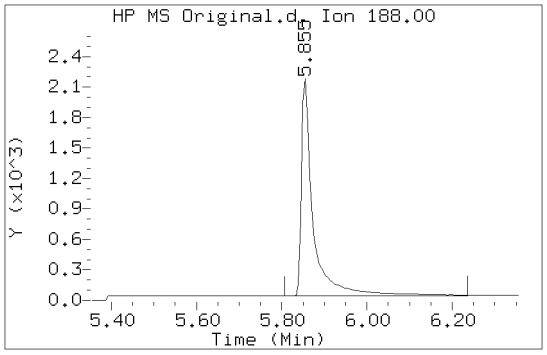


Phenanthrene-d10 (1517-22-2)

Reason Code:

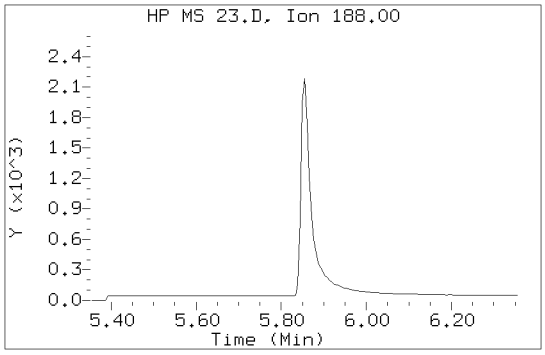
BEFORE

MASS
188
AREA
4105
HEIGHT
2138
29-Jun-2024
19:34
ALSHS
Server



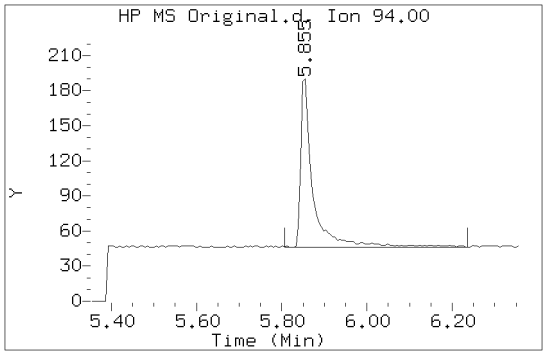
AFTER

MASS
188
AREA
6903
HEIGHT
2169
01-Jul-2024
08:34



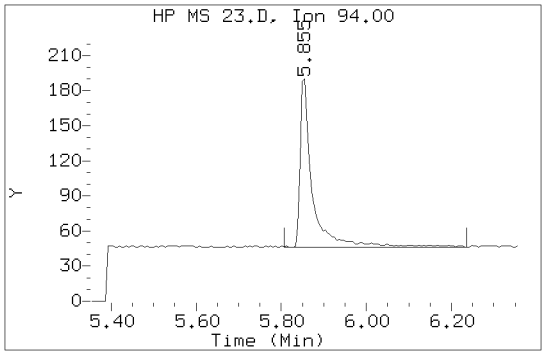
BEFORE

MASS
94
AREA
295
HEIGHT
144
29-Jun-2024
19:34
ALSHS
Server



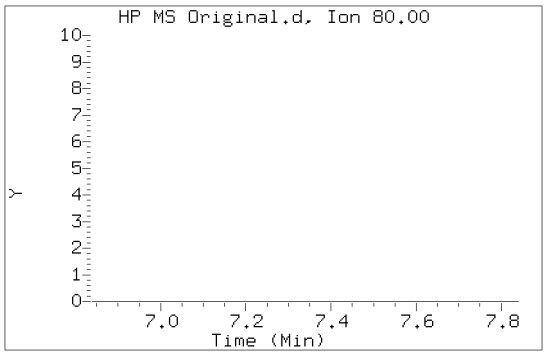
AFTER

MASS
94
AREA
295
HEIGHT
144
01-Jul-2024
08:34



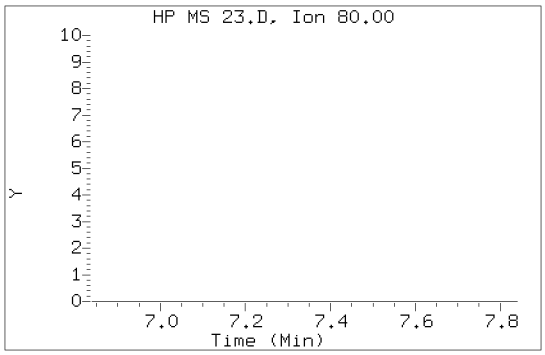
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
08:34



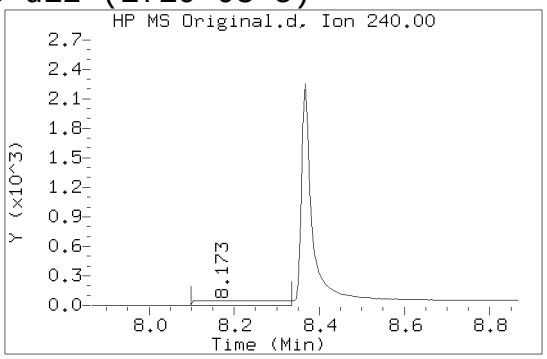
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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

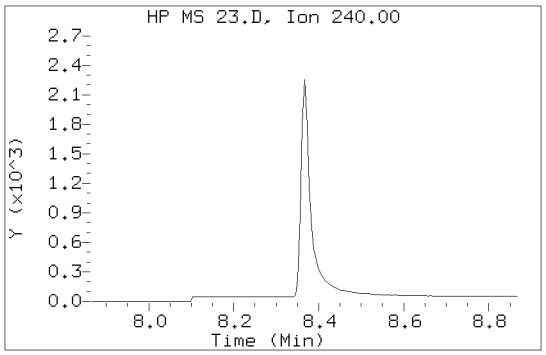
BEFORE

MASS
240
AREA
638
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



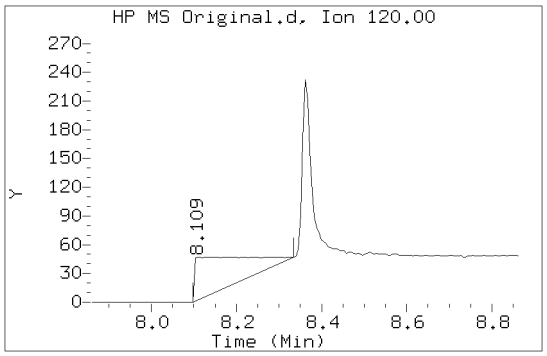
AFTER

MASS
240
AREA
6088
HEIGHT
2244
01-Jul-2024
08:34



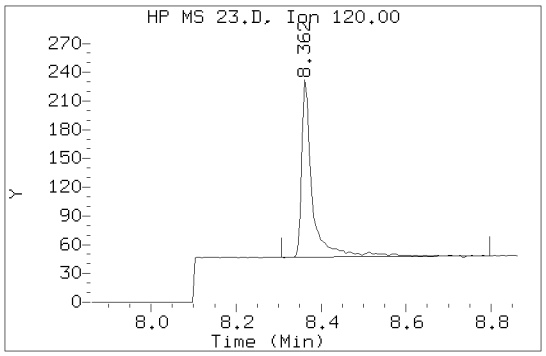
BEFORE

MASS
120
AREA
323
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



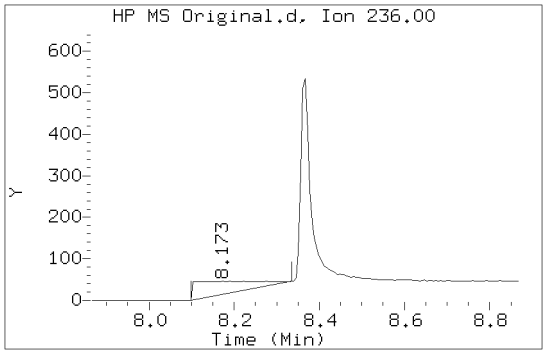
AFTER

MASS
120
AREA
325
HEIGHT
184
01-Jul-2024
08:34



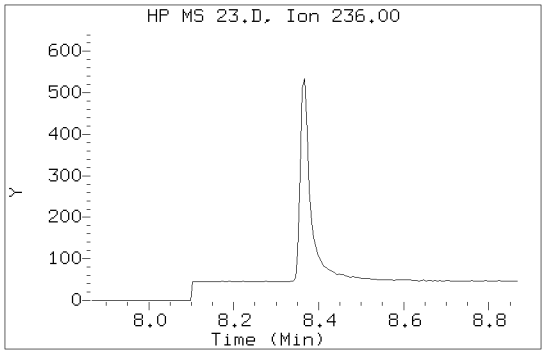
BEFORE

MASS
236
AREA
306
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
236
AREA
894
HEIGHT
488
01-Jul-2024
08:34

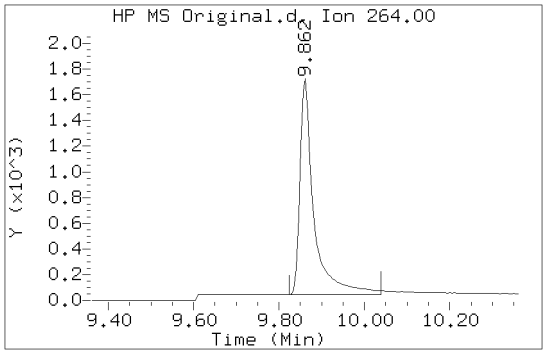


Perylene-d12 (1520-96-3)

Reason Code:

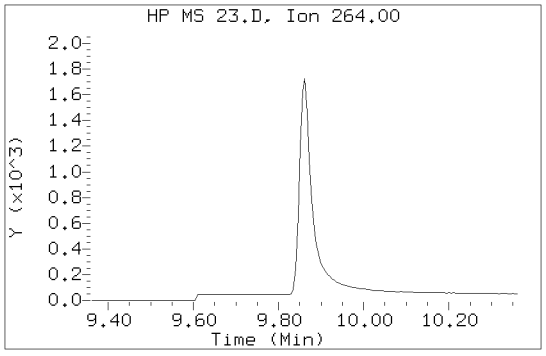
BEFORE

MASS
264
AREA
3817
HEIGHT
1679
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
264
AREA
7898
HEIGHT
1717
01-Jul-2024
08:34

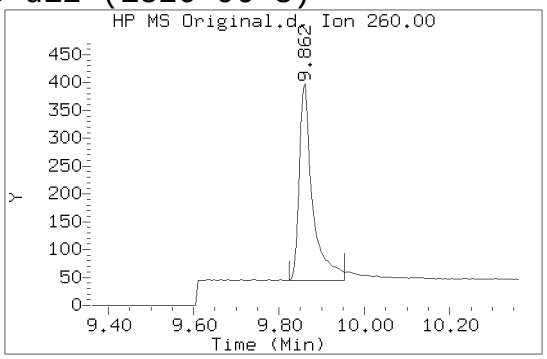


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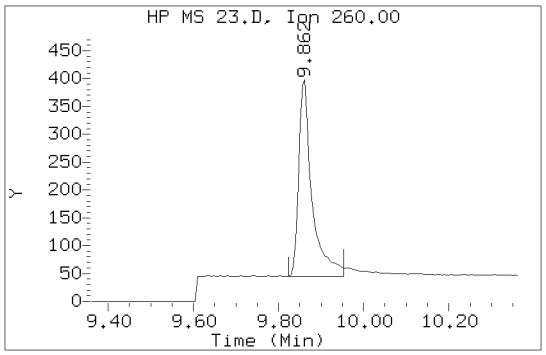
Perylene-d12 (1520-96-3)

Reason Code:

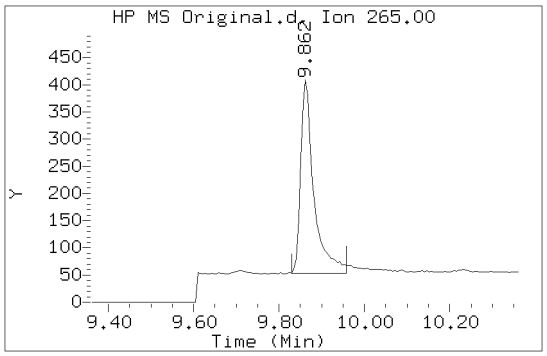
BEFORE
MASS
260
AREA
764
HEIGHT
353
29-Jun-2024
19:34
ALSHS
Server



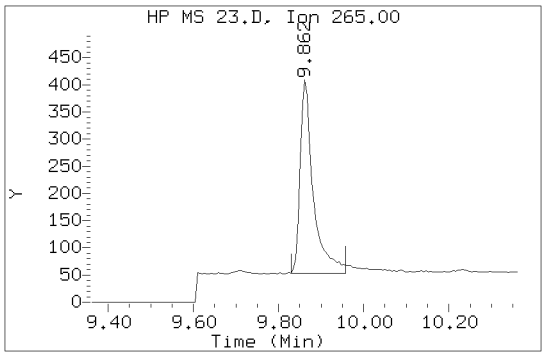
AFTER
MASS
260
AREA
764
HEIGHT
353
01-Jul-2024
08:34



BEFORE
MASS
265
AREA
769
HEIGHT
356
29-Jun-2024
19:34
ALSHS
Server



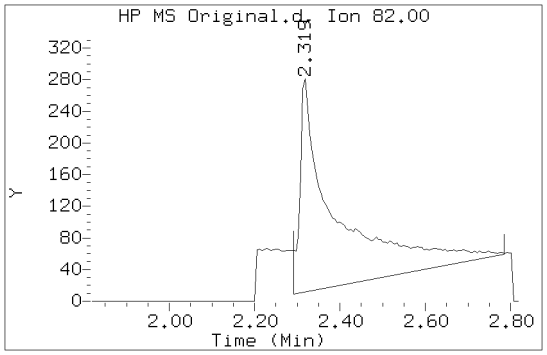
AFTER
MASS
265
AREA
769
HEIGHT
356
01-Jul-2024
08:34



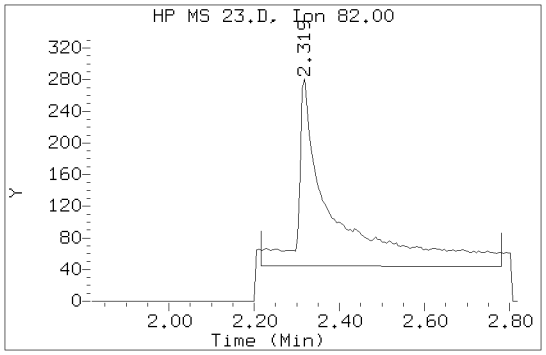
Nitrobenzene-d5 (4165-60-0)

Reason Code:

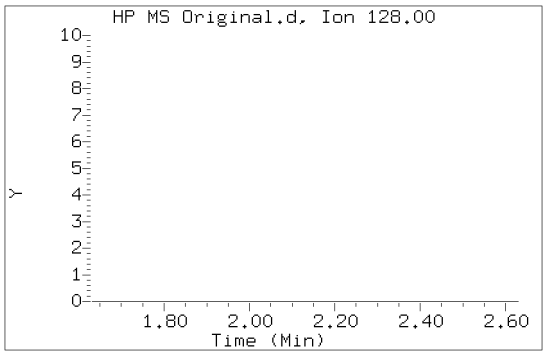
BEFORE
MASS
82
AREA
1609
HEIGHT
269
29-Jun-2024
19:34
ALSHS
Server



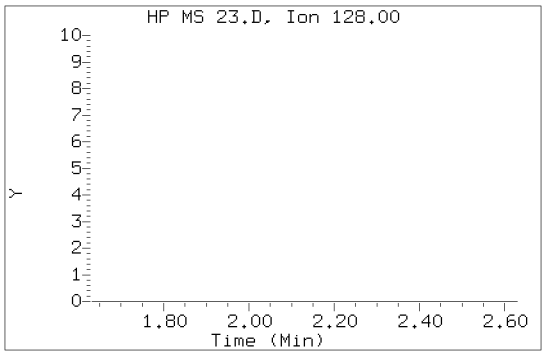
AFTER
MASS
82
AREA
1381
HEIGHT
236
01-Jul-2024
08:34



BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
08:34

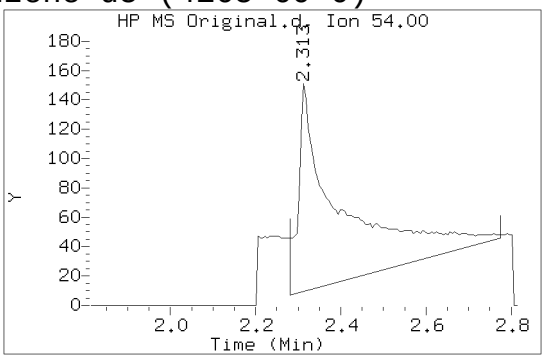


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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

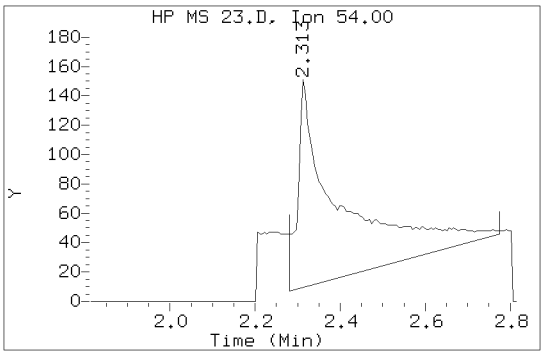
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
981
HEIGHT
141
29-Jun-2024
19:34
ALSHS
Server



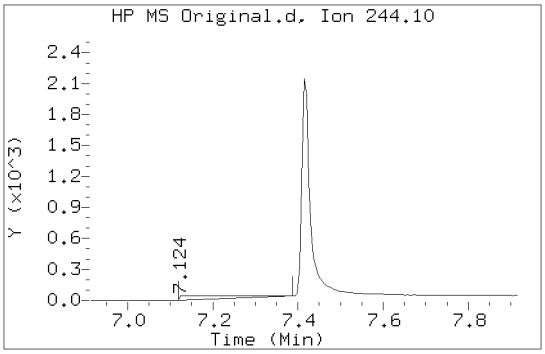
AFTER
MASS
54
AREA
981
HEIGHT
141
01-Jul-2024
08:34



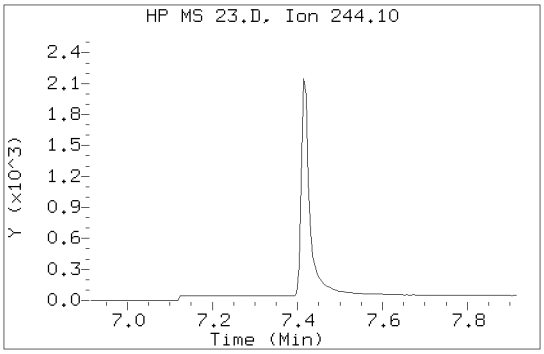
4-Terphenyl-d14 (1718-51-0)

Reason Code:

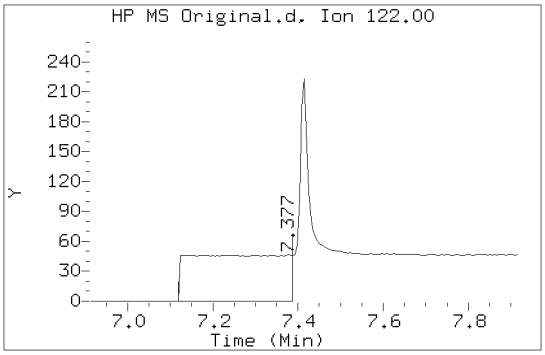
BEFORE
MASS
244.1
AREA
345
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



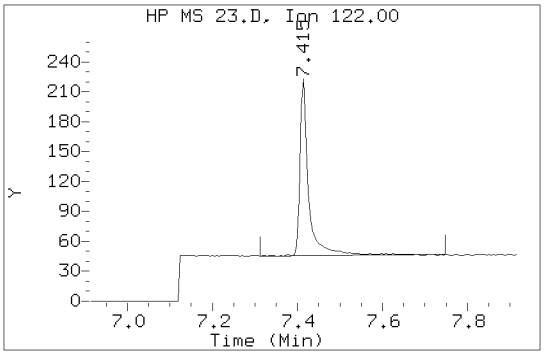
AFTER
MASS
244.1
AREA
5754
HEIGHT
2147
01-Jul-2024
08:34



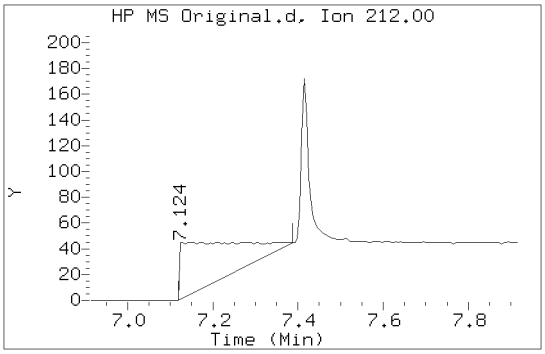
BEFORE
MASS
122
AREA
738
HEIGHT
47
29-Jun-2024
19:34
ALSHS
Server



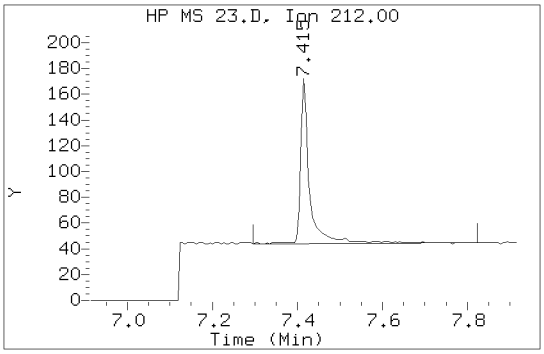
AFTER
MASS
122
AREA
249
HEIGHT
177
01-Jul-2024
08:34



BEFORE
MASS
212
AREA
351
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
212
AREA
184
HEIGHT
127
01-Jul-2024
08:34

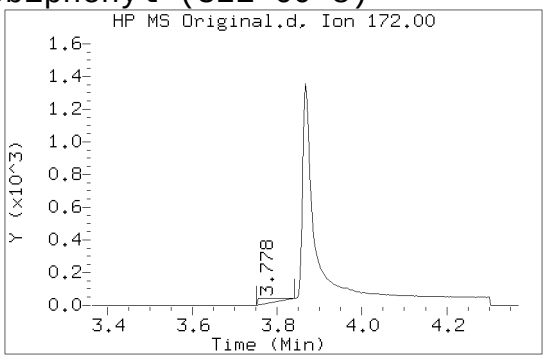


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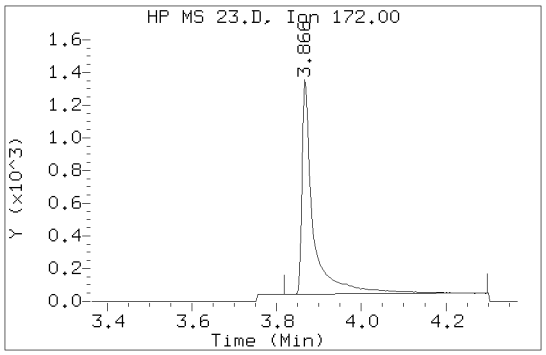
2-Fluorobiphenyl (321-60-8)

Reason Code:

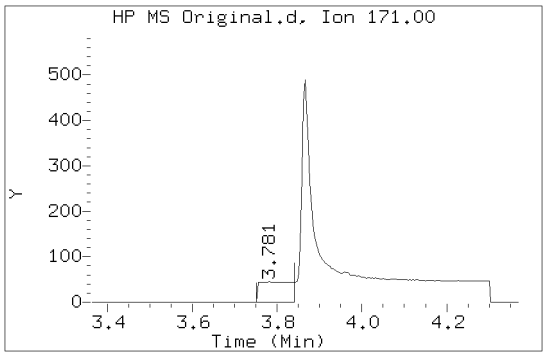
BEFORE
MASS
172
AREA
109
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



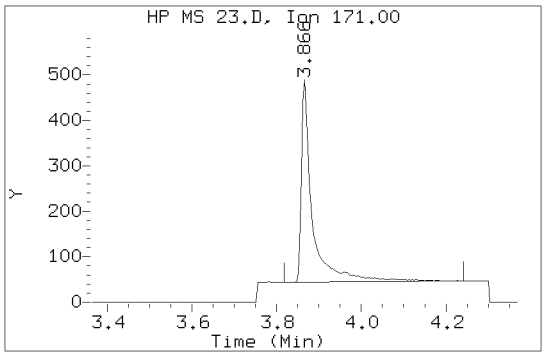
AFTER
MASS
172
AREA
2393
HEIGHT
1310
01-Jul-2024
08:34



BEFORE
MASS
171
AREA
233
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
171
AREA
791
HEIGHT
444
01-Jul-2024
08:34



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D Page 1
Report Date: 01-Jul-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D
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Inj Date : 01-JUL-2024 11:45
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
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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	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.886	5.571	-1.685	198	60824			0.00- 100.00	94.35
3.886	6.357	-2.471	51	16912			10.00- 80.00	27.80
3.886	6.357	-2.471	68	0	0.0	0.0	0.00- 2.00	0.00
3.886	6.357	-2.471	69	19064			0.00- 0.00	31.34
3.886	6.357	-2.471	70	154			0.00- 2.00	0.81
3.886	6.357	-2.471	127	25400			10.00- 80.00	41.76
3.886	6.357	-2.471	197	0	0.0	0.0	0.00- 2.00	0.00
3.886	6.357	-2.471	199	4211			5.00- 9.00	6.92
3.886	6.357	-2.471	275	15754			10.00- 60.00	25.90
3.886	6.357	-2.471	365	1951			1.00- 100.00	3.21
3.886	6.357	-2.471	441	8895			0.01- 99.99	71.07
3.886	6.357	-2.471	442	64464			50.00- 150.00	105.98
3.886	6.357	-2.471	443	12516			15.00- 24.00	19.42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	27.80
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.34
70	Less than 2.00% of mass 69	0.25 (0.81)
127	10.00 - 80.00% of mass 198	41.76
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	25.90
365	1.00 - 100.00% of mass 198	3.21
441	Present, but less than mass 443	14.62
442	50.00 - 150.00% of mass 198	105.98
443	15.00 - 24.00% of mass 442	20.58 (19.42)

Data File: 01A.D
Spectrum: HP ChemStation MS 01A.D, Scan 242: 3.881 min. (SUB)
Location of Maximum: 442.00
Number of points: 197

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	212	121.90	414	189.00	617	265.00	908
39.10	1206	123.00	735	191.10	270	265.90	172
44.00	151	124.00	260	191.90	815	273.00	1027
49.00	162	124.90	301	192.90	485	274.00	2597
50.00	4248	127.00	25400	194.00	153	275.00	15754
51.10	16912	128.00	1878	194.70	177	276.00	2108
52.00	800	129.00	9215	195.90	2036	277.00	1266
55.90	701	130.00	654	197.90	60824	277.80	214
57.00	1365	131.00	221	198.90	4211	282.90	176
61.00	264	133.90	219	200.00	355	284.90	344
62.00	244	134.90	736	201.30	321	292.60	183
63.00	750	135.80	220	202.80	341	293.10	208
65.00	367	137.00	336	204.00	2107	294.80	178
69.00	19064	140.00	157	205.00	3379	296.00	4071
70.00	154	141.00	1287	206.00	15142	296.90	503
72.90	192	141.90	376	207.00	2016	303.00	431
74.00	1932	143.00	310	208.00	519	313.80	227
75.00	3084	145.90	251	208.90	265	314.90	436
76.00	1123	147.00	637	210.10	483	315.90	204
77.10	19984	147.90	1365	210.90	719	321.00	164
78.00	1430	148.90	256	214.80	231	323.00	1475
79.00	1334	153.00	280	216.00	384	324.10	246
80.00	958	153.80	342	216.90	3690	326.90	296
81.00	1543	155.00	761	218.00	443	333.00	191
82.00	387	156.00	962	220.90	3015	333.90	764
83.00	448	157.60	387	222.90	1073	334.90	328
84.00	33	157.90	186	224.00	8352	340.90	220
85.00	290	159.00	208	225.00	2144	346.00	199
86.10	329	159.90	491	226.90	3071	352.00	543
86.90	265	161.00	644	227.90	475	353.00	250
91.00	289	165.00	408	229.00	756	353.90	547
92.10	300	166.00	357	231.00	370	365.00	1951
93.00	2176	167.00	2687	233.90	216	365.90	181
98.00	1692	167.90	881	235.00	268	372.00	676
98.90	1428	169.00	201	235.70	151	373.00	194
99.90	171	172.00	165	236.90	217	382.80	207
101.00	885	173.00	236	241.10	236	401.90	323
102.90	283	173.90	725	241.80	332	403.00	637
103.90	602	175.10	829	243.00	472	421.00	383
105.10	651	175.90	289	244.00	6732	422.00	389
105.90	258	176.70	361	245.00	1017	423.00	2988
107.00	7276	178.10	224	246.00	1240	424.00	716
108.00	1071	178.90	1871	247.00	217	439.10	194
108.90	211	180.00	1194	248.90	263	441.00	8895
110.00	12101	181.00	621	253.10	328	442.00	64464

111.00	1847	183.90	179	255.00	34520	443.00	12516
111.90	448	185.00	1091	256.00	5184	444.00	1192
116.00	397	186.00	7057	257.00	446		
117.00	4506	187.00	1830	258.00	1570		
117.90	270	188.10	318	259.00	270		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D

Date : 01-JUL-2024 11:45

Client ID: DFTPP

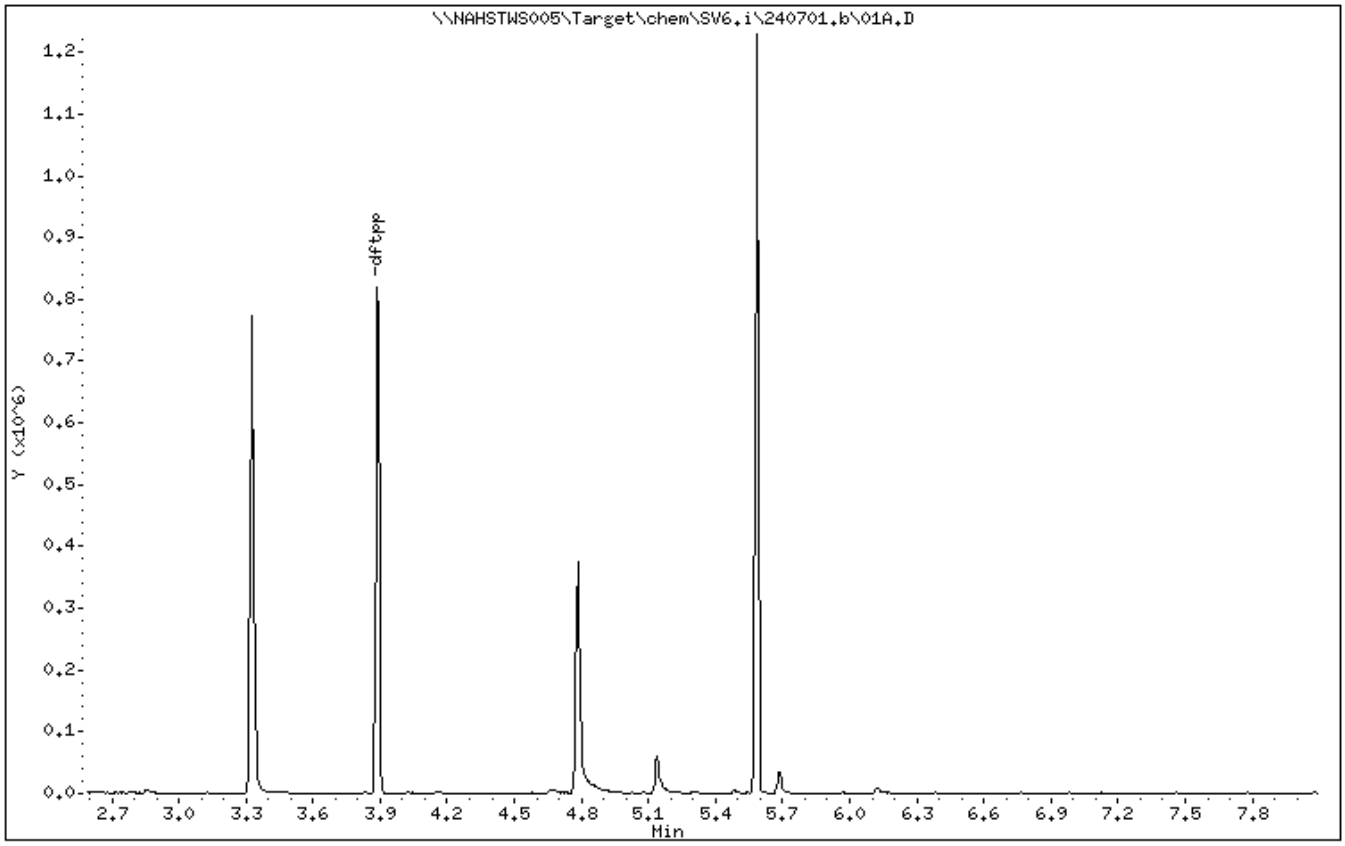
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D Page 2

Date : 01-JUL-2024 11:45

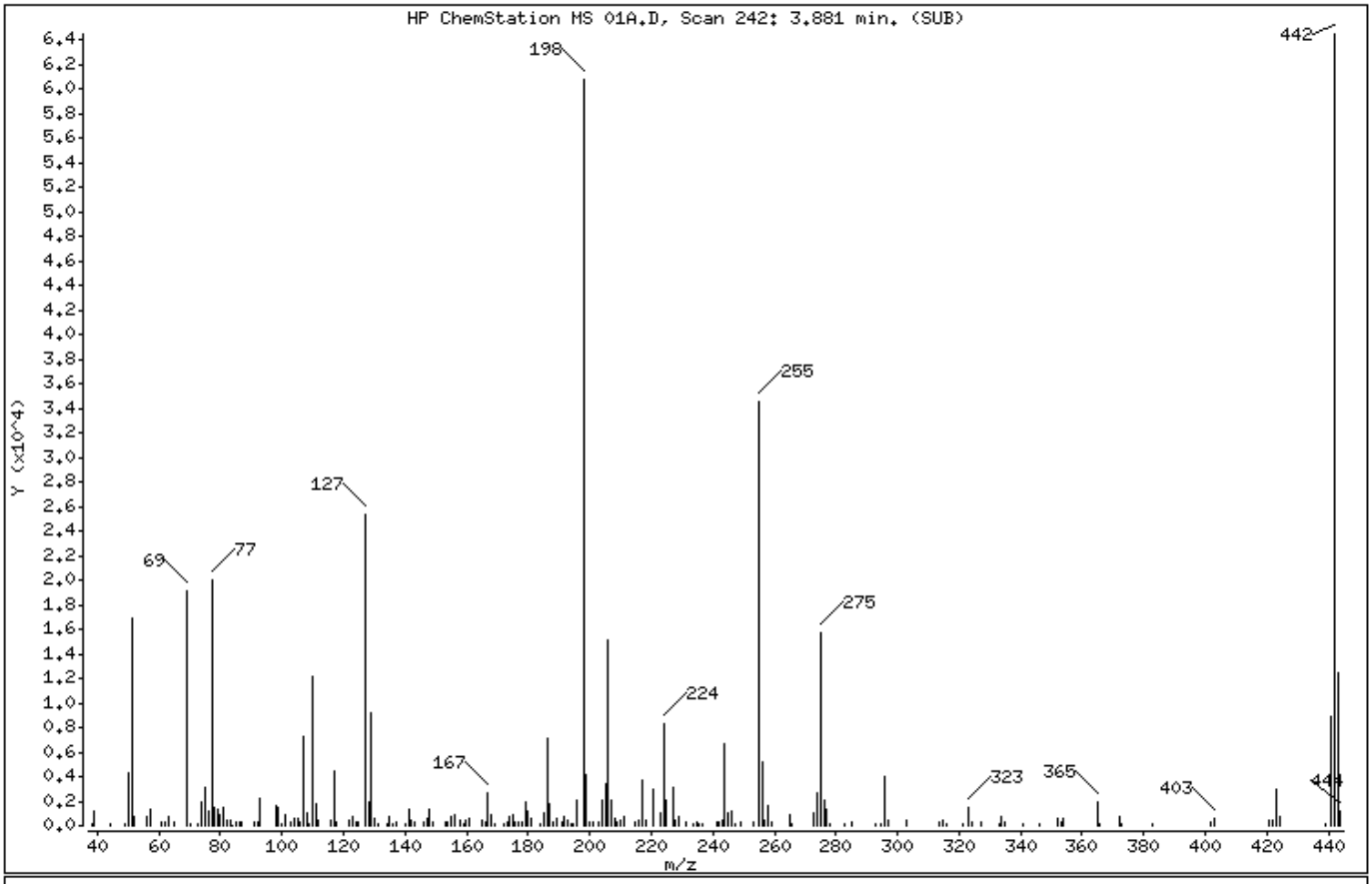
Client ID: DFTPP Instrument: SV6.i

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
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68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.34
70	Less than 2.00% of mass 69	0.25 (0.81)
127	10.00 - 80.00% of mass 198	41.76
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	25.90
365	1.00 - 100.00% of mass 198	3.21
441	Present, but less than mass 443	14.62
442	50.00 - 150.00% of mass 198	105.98
443	15.00 - 24.00% of mass 442	20.58 (19.42)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D Page 3

Date : 01-JUL-2024 11:45

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01A.D
Spectrum: HP ChemStation MS 01A.D, Scan 242: 3.881 min. (SUB)
Location of Maximum: 442.00
Number of points: 197

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	212	121.90	414	189.00	617	265.00	908
39.10	1206	123.00	735	191.10	270	265.90	172
44.00	151	124.00	260	191.90	815	273.00	1027
49.00	162	124.90	301	192.90	485	274.00	2597
50.00	4248	127.00	25400	194.00	153	275.00	15754
51.10	16912	128.00	1878	194.70	177	276.00	2108
52.00	800	129.00	9215	195.90	2036	277.00	1266
55.90	701	130.00	654	197.90	60824	277.80	214
57.00	1365	131.00	221	198.90	4211	282.90	176
61.00	264	133.90	219	200.00	355	284.90	344
62.00	244	134.90	736	201.30	321	292.60	183
63.00	750	135.80	220	202.80	341	293.10	208
65.00	367	137.00	336	204.00	2107	294.80	178
69.00	19064	140.00	157	205.00	3379	296.00	4071
70.00	154	141.00	1287	206.00	15142	296.90	503
72.90	192	141.90	376	207.00	2016	303.00	431
74.00	1932	143.00	310	208.00	519	313.80	227
75.00	3084	145.90	251	208.90	265	314.90	436
76.00	1123	147.00	637	210.10	483	315.90	204
77.10	19984	147.90	1365	210.90	719	321.00	164
78.00	1430	148.90	256	214.80	231	323.00	1475
79.00	1334	153.00	280	216.00	384	324.10	246
80.00	958	153.80	342	216.90	3690	326.90	296
81.00	1543	155.00	761	218.00	443	333.00	191
82.00	387	156.00	962	220.90	3015	333.90	764
83.00	448	157.60	387	222.90	1073	334.90	328
84.00	33	157.90	186	224.00	8352	340.90	220
85.00	290	159.00	208	225.00	2144	346.00	199
86.10	329	159.90	491	226.90	3071	352.00	543
86.90	265	161.00	644	227.90	475	353.00	250
91.00	289	165.00	408	229.00	756	353.90	547
92.10	300	166.00	357	231.00	370	365.00	1951
93.00	2176	167.00	2687	233.90	216	365.90	181
98.00	1692	167.90	881	235.00	268	372.00	676
98.90	1428	169.00	201	235.70	151	373.00	194

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\01A.D

Date : 01-JUL-2024 11:45

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01A.D
Spectrum: HP ChemStation MS 01A.D, Scan 242: 3.881 min. (SUB)
Location of Maximum: 442.00
Number of points: 197

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.90	171	172.00	165	236.90	217	382.80	207
101.00	885	173.00	236	241.10	236	401.90	323
102.90	283	173.90	725	241.80	332	403.00	637
103.90	602	175.10	829	243.00	472	421.00	383
105.10	651	175.90	289	244.00	6732	422.00	389
105.90	258	176.70	361	245.00	1017	423.00	2988
107.00	7276	178.10	224	246.00	1240	424.00	716
108.00	1071	178.90	1871	247.00	217	439.10	194
108.90	211	180.00	1194	248.90	263	441.00	8895
110.00	12101	181.00	621	253.10	328	442.00	64464
111.00	1847	183.90	179	255.00	34520	443.00	12516
111.90	448	185.00	1091	256.00	5184	444.00	1192
116.00	397	186.00	7057	257.00	446		
117.00	4506	187.00	1830	258.00	1570		
117.90	270	188.10	318	259.00	270		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D Page 1
Report Date: 01-Jul-2024 14:23

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 01-JUL-2024 13:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240701.b\DXSIM.m
Meth Date : 01-Jul-2024 14:19 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: 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	1.843	1.843	(1.000)	1774	0.10000	(aM)
* 45 Naphthalene-d8	136	2.796	2.796	(1.000)	5505	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.240	2.240	(0.801)	1294	0.08000	0.07830(M)
* 86 Acenaphthene-d10	164	4.365	4.365	(1.000)	3383	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.777	3.777	(0.865)	3441	0.08000	0.06654(M)
* 126 Phenanthrene-d10	188	5.755	5.755	(1.000)	6893	0.10000	(M)
* 182 Chrysene-d12	240	8.267	8.267	(1.000)	6069	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.320	7.320	(0.885)	8198	0.08000	0.06631(M)
* 198 Perylene-d12	264	9.724	9.724	(1.000)	5983	0.10000	(M)
1 1,4-Dioxane	58	0.690	0.690	(0.375)	268	0.08000	0.07053(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\240701.b\04.D

Date : 01-JUL-2024 13:00

Client ID: 14DX-0.08

Instrument: SV6.i

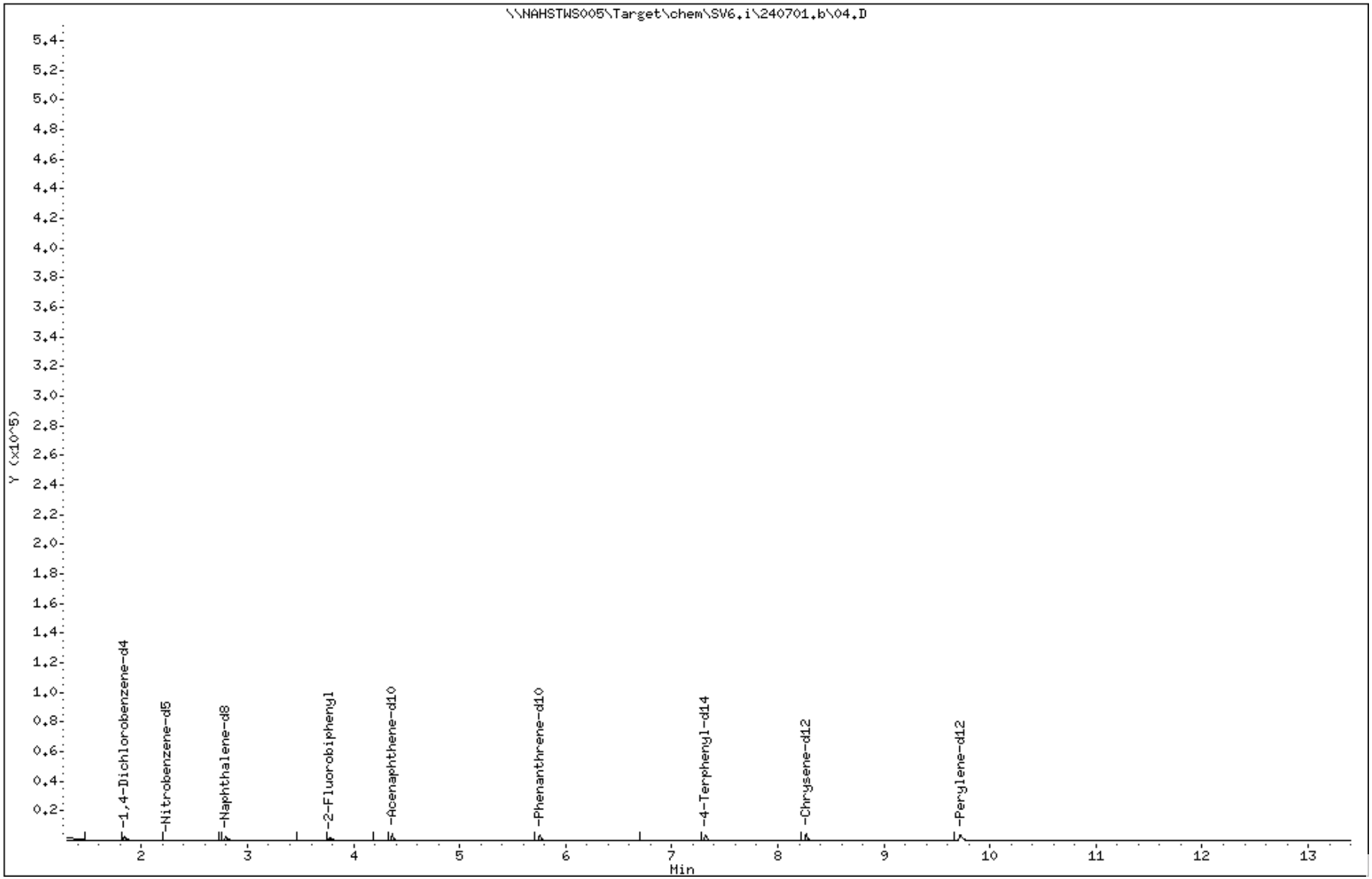
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



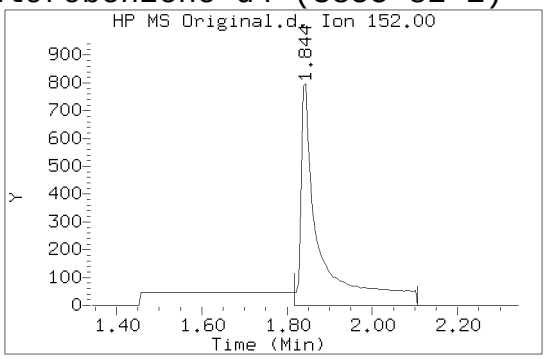
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Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

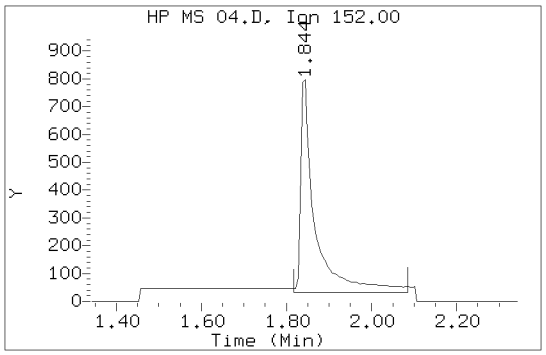
BEFORE

MASS
152
AREA
2365
HEIGHT
797
01-Jul-2024
13:16
ALSHS
Server



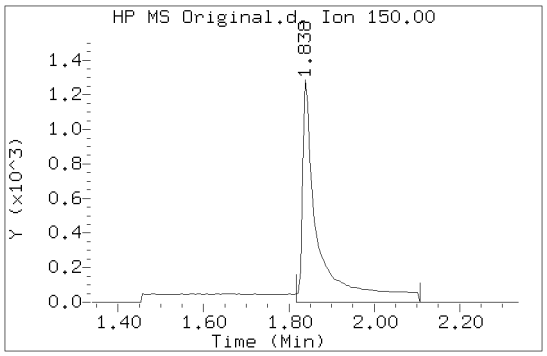
AFTER

MASS
152
AREA
1774
HEIGHT
764
01-Jul-2024
14:23



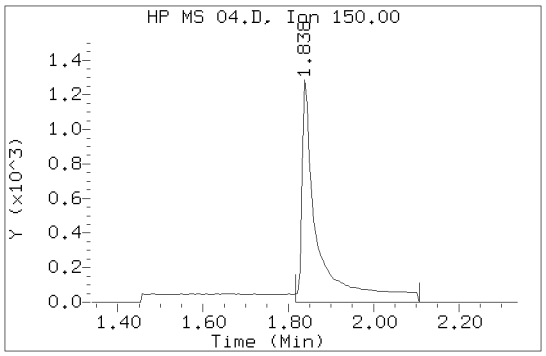
BEFORE

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AREA
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HEIGHT
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01-Jul-2024
13:16
ALSHS
Server



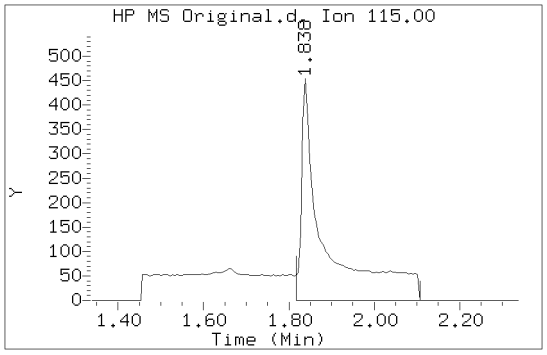
AFTER

MASS
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AREA
3253
HEIGHT
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01-Jul-2024
14:23



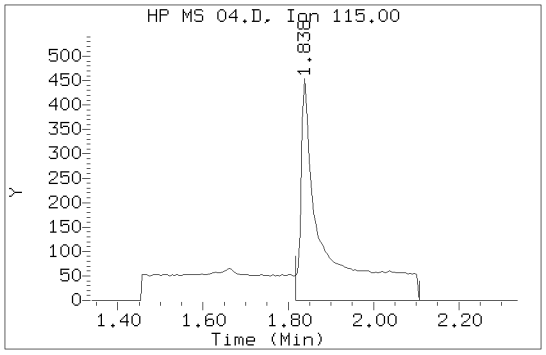
BEFORE

MASS
115
AREA
1688
HEIGHT
454
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
115
AREA
1688
HEIGHT
454
01-Jul-2024
14:23

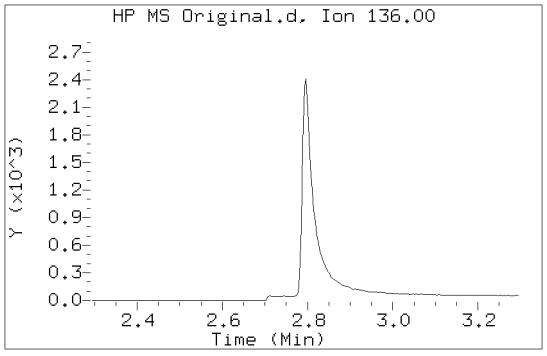


Naphthalene-d8 (1146-65-2)

Reason Code:

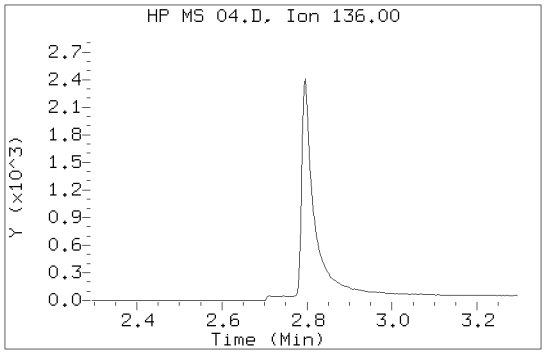
BEFORE

MASS
136
AREA
5885
HEIGHT
2403
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
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AREA
5505
HEIGHT
2375
01-Jul-2024
14:23



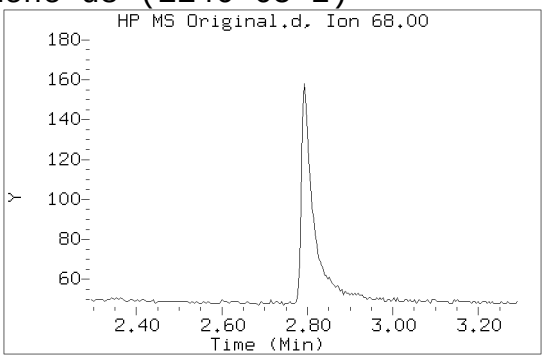
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Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

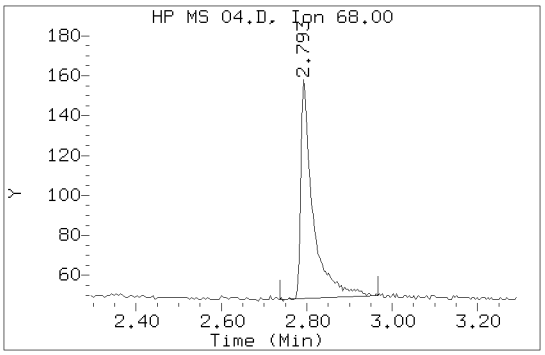
BEFORE

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AREA
249
HEIGHT
110
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
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AREA
215
HEIGHT
109
01-Jul-2024
14:23

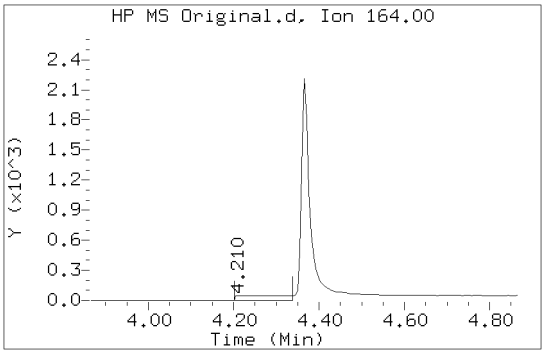


Acenaphthene-d10 (15067-26-2)

Reason Code:

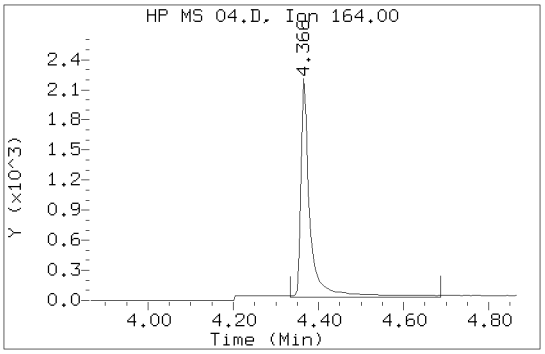
BEFORE

MASS
164
AREA
375
HEIGHT
46
01-Jul-2024
13:16
ALSHS
Server



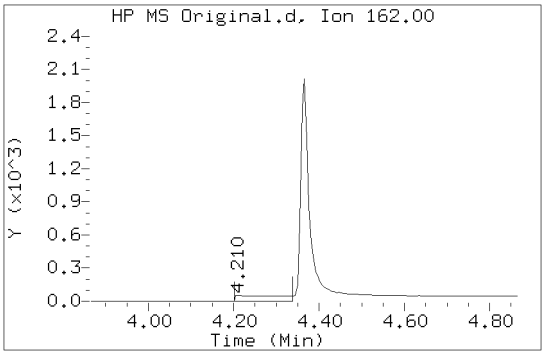
AFTER

MASS
164
AREA
3383
HEIGHT
2180
01-Jul-2024
14:23



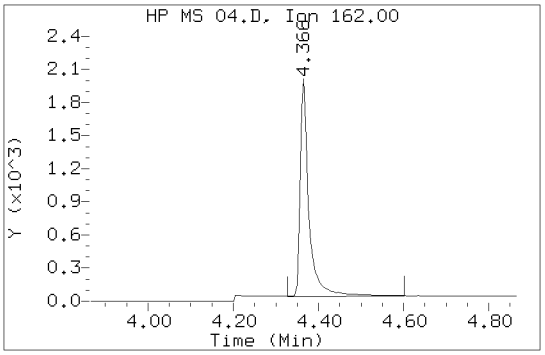
BEFORE

MASS
162
AREA
383
HEIGHT
53
01-Jul-2024
13:16
ALSHS
Server



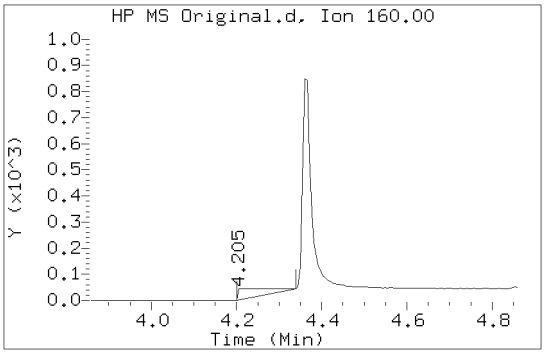
AFTER

MASS
162
AREA
2868
HEIGHT
1971
01-Jul-2024
14:23



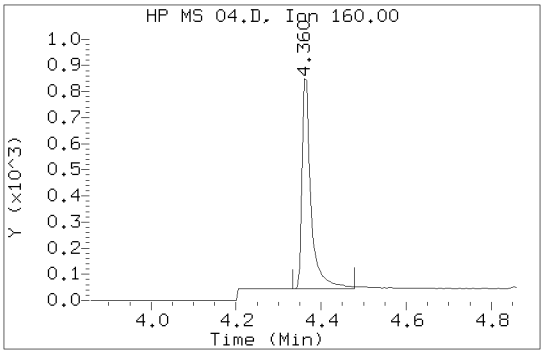
BEFORE

MASS
160
AREA
175
HEIGHT
43
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
160
AREA
1184
HEIGHT
805
01-Jul-2024
14:23

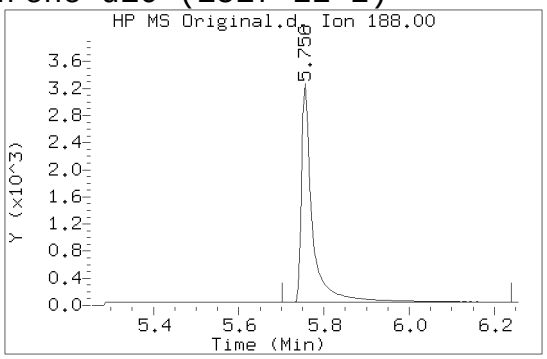


Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

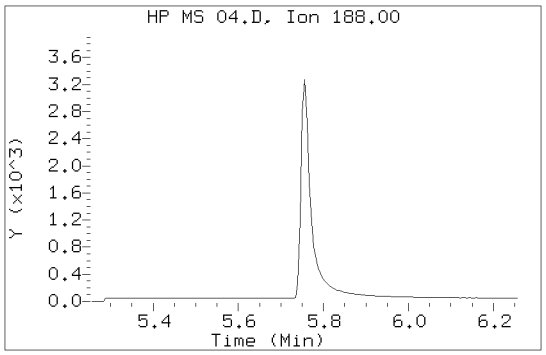
Phenanthrene-d10 (1517-22-2)

Reason Code:

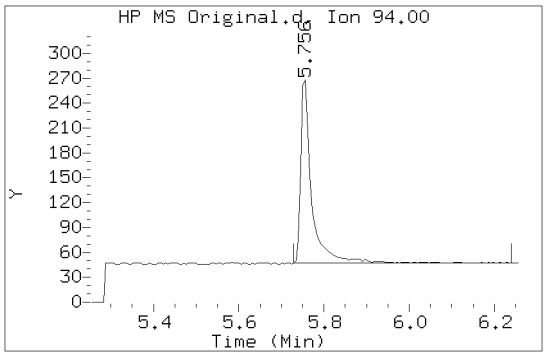
BEFORE
MASS
188
AREA
5875
HEIGHT
3227
01-Jul-2024
13:16
ALSHS
Server



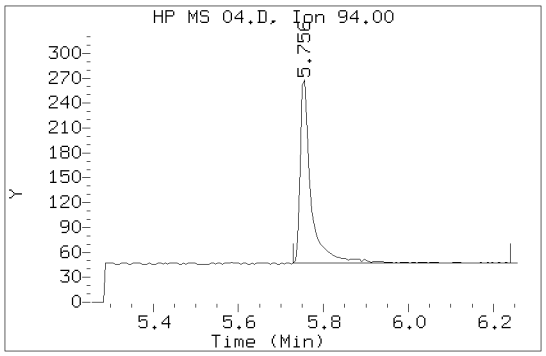
AFTER
MASS
188
AREA
6893
HEIGHT
3247
01-Jul-2024
14:23



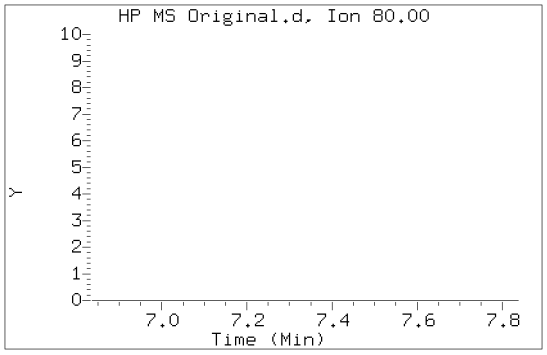
BEFORE
MASS
94
AREA
400
HEIGHT
221
01-Jul-2024
13:16
ALSHS
Server



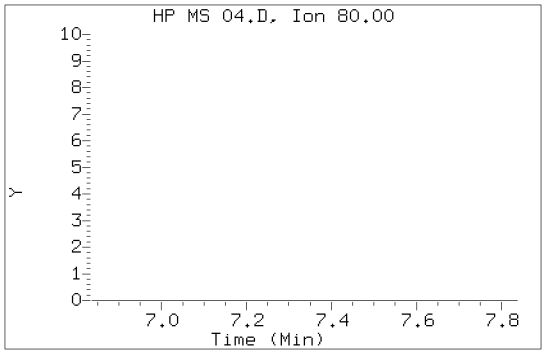
AFTER
MASS
94
AREA
400
HEIGHT
221
01-Jul-2024
14:23



BEFORE
MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
13:16
ALSHS
Server



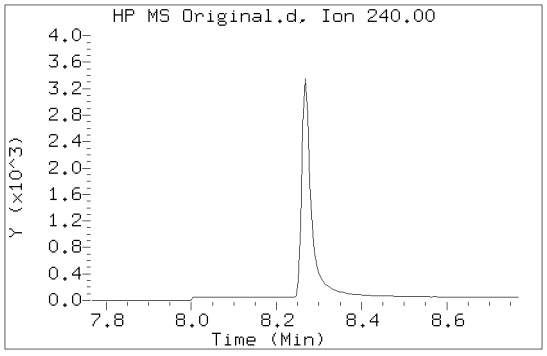
AFTER
MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
14:23



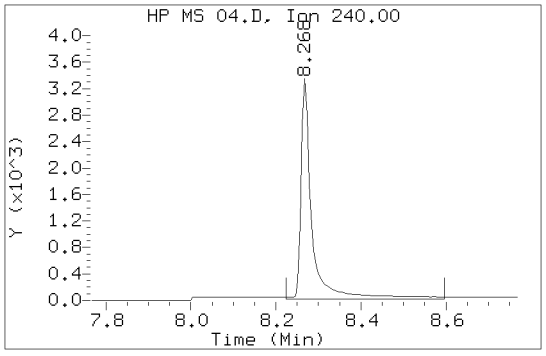
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
6083
HEIGHT
3336
01-Jul-2024
13:16
ALSHS
Server



AFTER
MASS
240
AREA
6069
HEIGHT
3333
01-Jul-2024
14:23

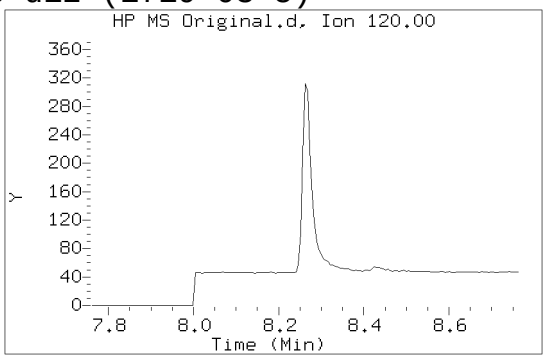


Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

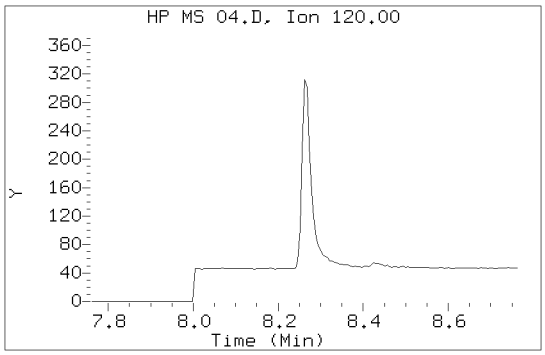
Chrysene-d12 (1719-03-5)

Reason Code:

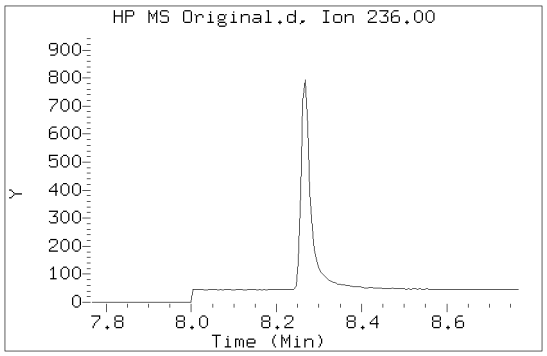
BEFORE
MASS
120
AREA
1073
HEIGHT
297
01-Jul-2024
13:16
ALSHS
Server



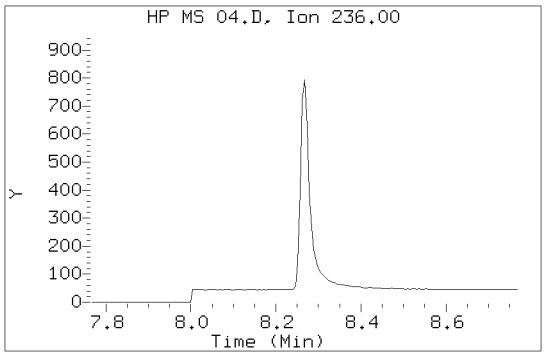
AFTER
MASS
120
AREA
1073
HEIGHT
297
01-Jul-2024
14:23



BEFORE
MASS
236
AREA
1272
HEIGHT
748
01-Jul-2024
13:16
ALSHS
Server



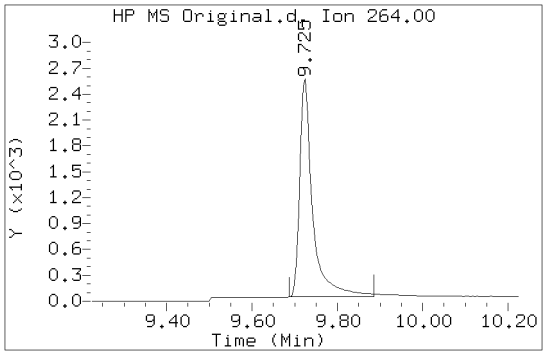
AFTER
MASS
236
AREA
1272
HEIGHT
748
01-Jul-2024
14:23



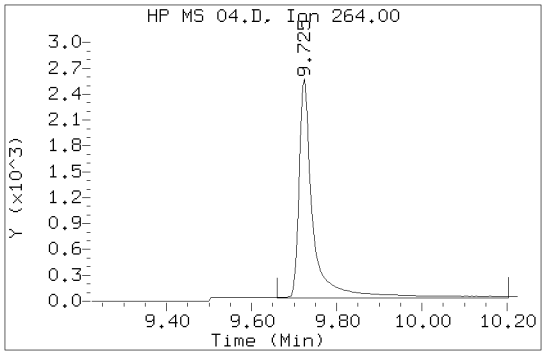
Perylene-d12 (1520-96-3)

Reason Code:

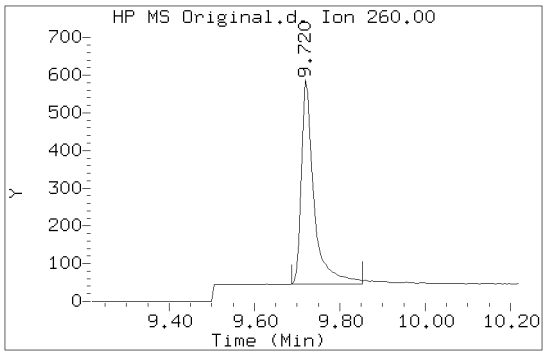
BEFORE
MASS
264
AREA
5390
HEIGHT
2528
01-Jul-2024
13:16
ALSHS
Server



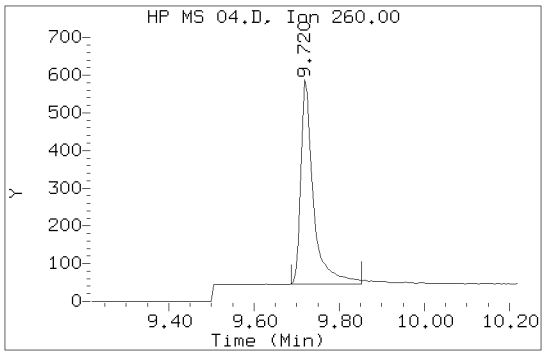
AFTER
MASS
264
AREA
5983
HEIGHT
2539
01-Jul-2024
14:23



BEFORE
MASS
260
AREA
1116
HEIGHT
542
01-Jul-2024
13:16
ALSHS
Server



AFTER
MASS
260
AREA
1116
HEIGHT
542
01-Jul-2024
14:23

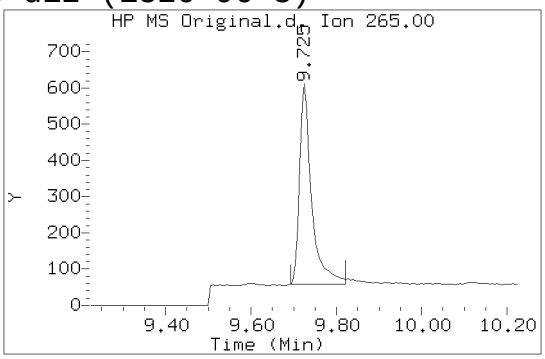


Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

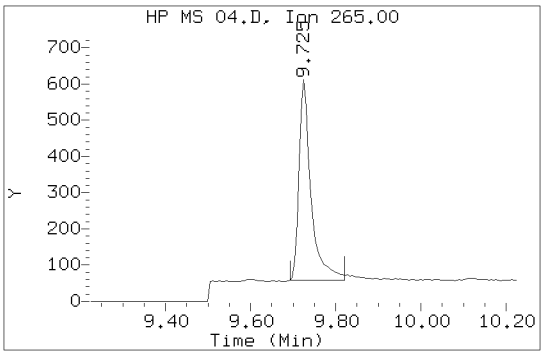
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
1083
HEIGHT
553
01-Jul-2024
13:16
ALSHS
Server



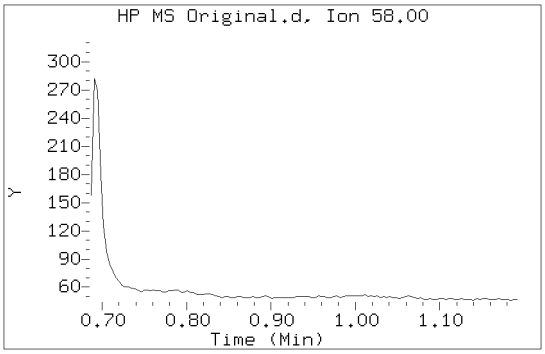
AFTER
MASS
265
AREA
1083
HEIGHT
553
01-Jul-2024
14:23



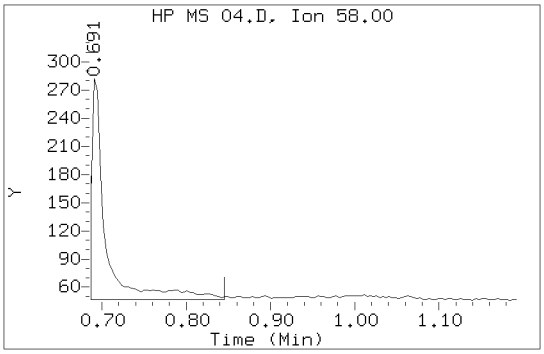
1,4-Dioxane ()

Reason Code:

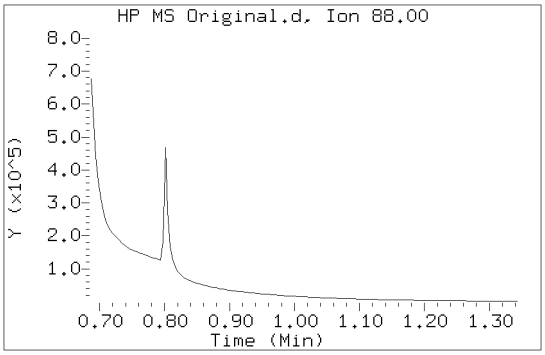
BEFORE
MASS
58
AREA
0
HEIGHT
0
01-Jul-2024
13:16
ALSHS
Server



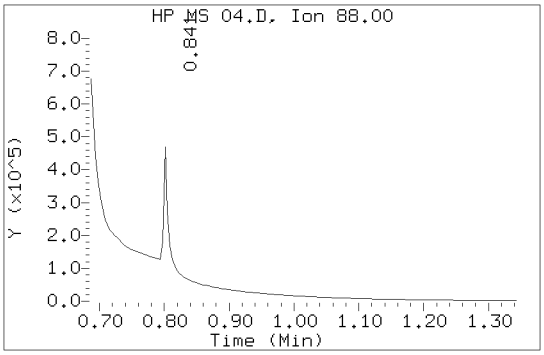
AFTER
MASS
58
AREA
268
HEIGHT
235
01-Jul-2024
14:23



BEFORE
MASS
88
AREA
0
HEIGHT
0
01-Jul-2024
13:16
ALSHS
Server



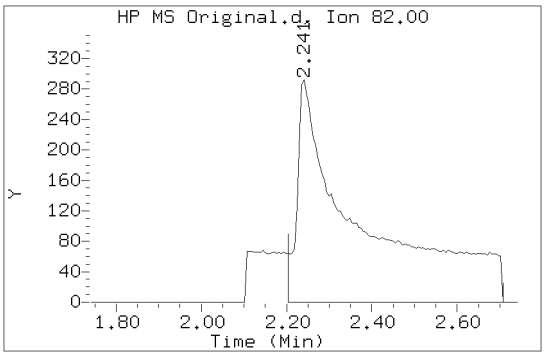
AFTER
MASS
88
AREA
0
HEIGHT
0
01-Jul-2024
14:23



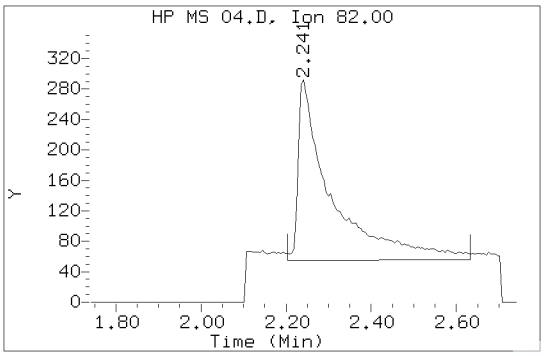
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
3006
HEIGHT
292
01-Jul-2024
13:16
ALSHS
Server



AFTER
MASS
82
AREA
1294
HEIGHT
236
01-Jul-2024
14:23

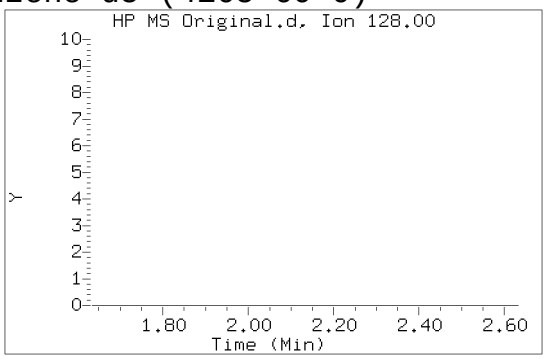


Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

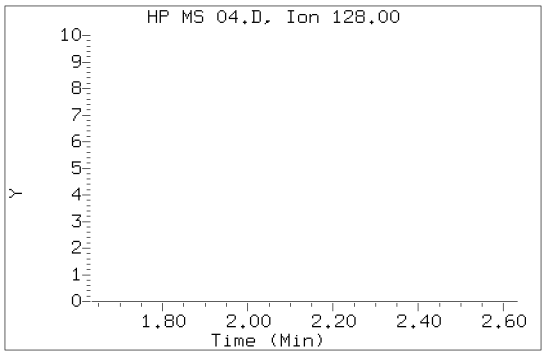
Nitrobenzene-d5 (4165-60-0)

Reason Code:

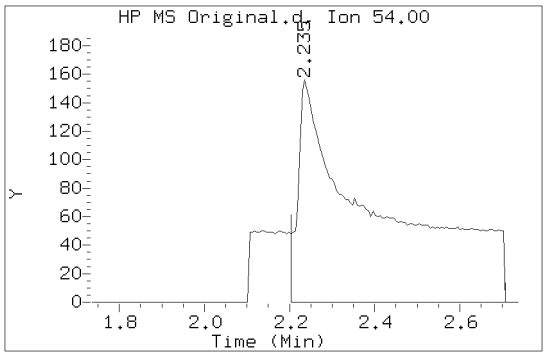
BEFORE
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
13:16
ALSHS
Server



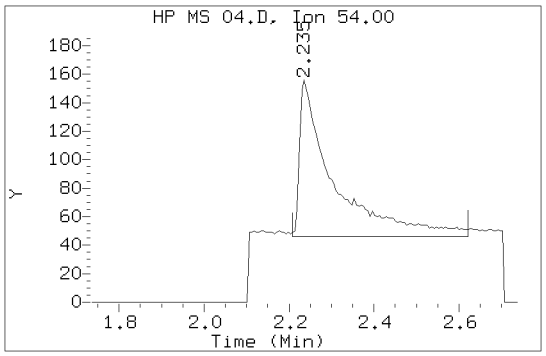
AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
14:23



BEFORE
MASS
54
AREA
2030
HEIGHT
156
01-Jul-2024
13:16
ALSHS
Server



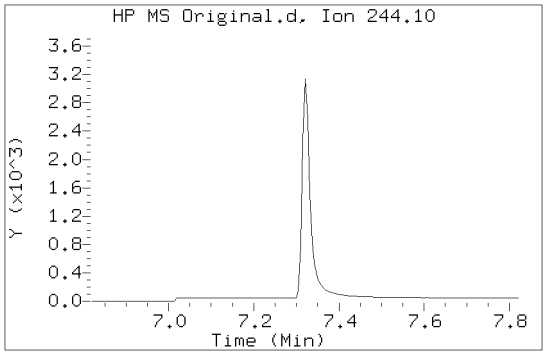
AFTER
MASS
54
AREA
615
HEIGHT
110
01-Jul-2024
14:23



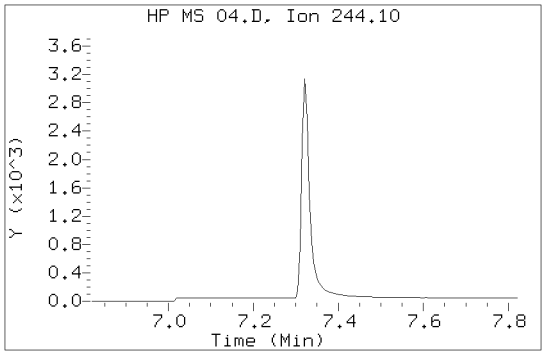
4-Terphenyl-d14 (1718-51-0)

Reason Code:

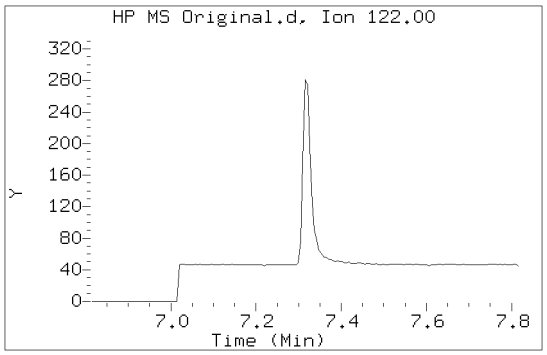
BEFORE
MASS
244.1
AREA
4864
HEIGHT
3120
01-Jul-2024
13:16
ALSHS
Server



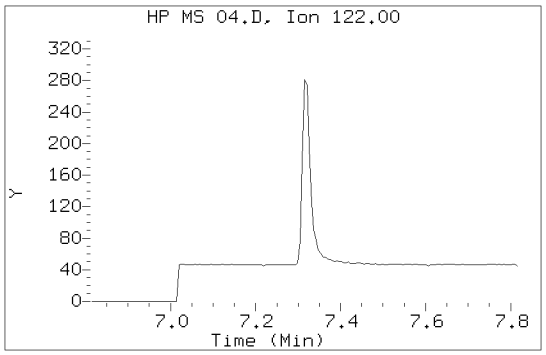
AFTER
MASS
244.1
AREA
8198
HEIGHT
3156
01-Jul-2024
14:23



BEFORE
MASS
122
AREA
915
HEIGHT
265
01-Jul-2024
13:16
ALSHS
Server



AFTER
MASS
122
AREA
915
HEIGHT
265
01-Jul-2024
14:23



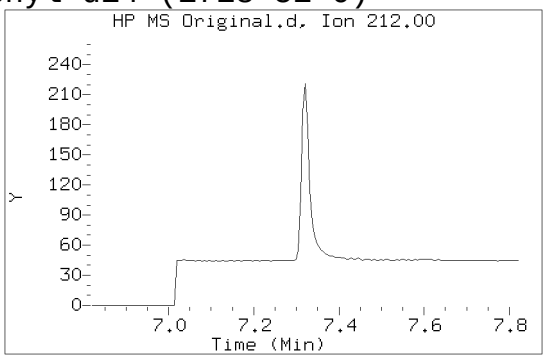
Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\04.D
Inj Date : 01-JUL-2024 13:00
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

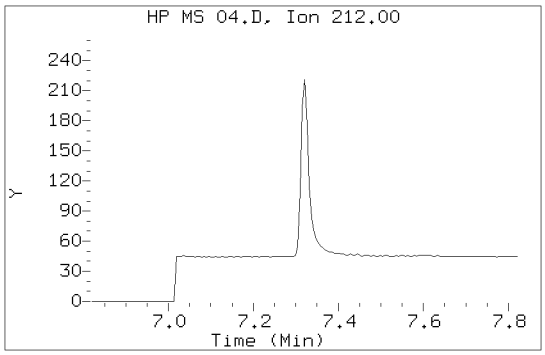
BEFORE

MASS
212
AREA
784
HEIGHT
205
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
212
AREA
784
HEIGHT
205
01-Jul-2024
14:23

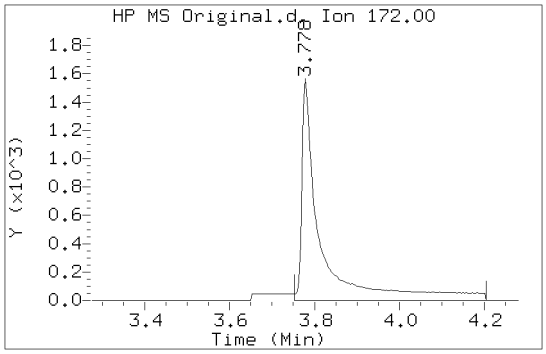


2-Fluorobiphenyl (321-60-8)

Reason Code:

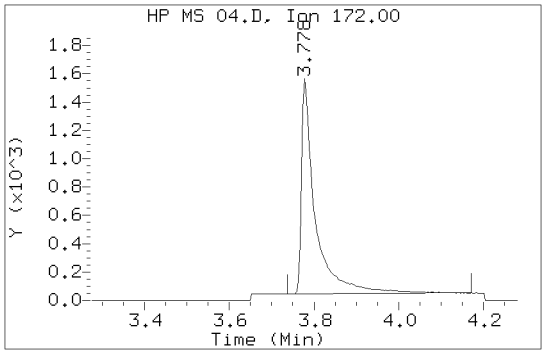
BEFORE

MASS
172
AREA
4782
HEIGHT
1565
01-Jul-2024
13:16
ALSHS
Server



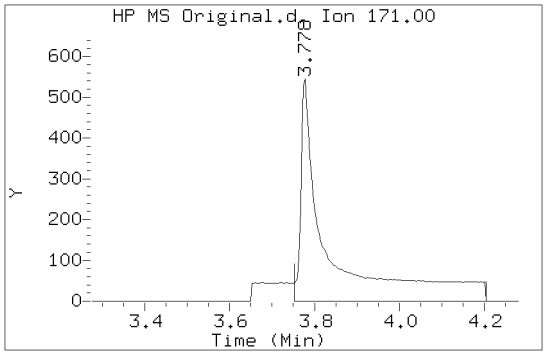
AFTER

MASS
172
AREA
3441
HEIGHT
1519
01-Jul-2024
14:23



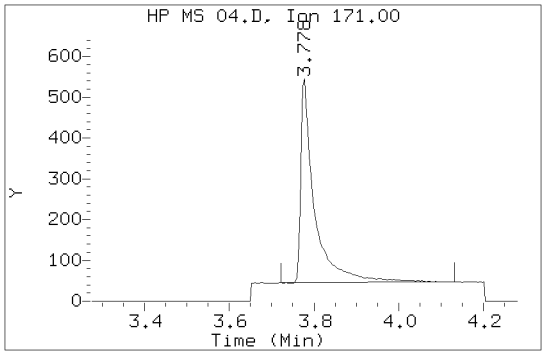
BEFORE

MASS
171
AREA
2396
HEIGHT
545
01-Jul-2024
13:16
ALSHS
Server



AFTER

MASS
171
AREA
1127
HEIGHT
499
01-Jul-2024
14:23



Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\16.D Page 1
Report Date: 02-Jul-2024 08:44

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240701.b\16.D
Lab Smp Id: HS24060985-08
Inj Date : 01-JUL-2024 17:35
Operator : LG Inst ID: SV6.i
Smp Info : HS24060985-08X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240701.b\DXSIM.m
Meth Date : 01-Jul-2024 14:19 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16
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	1.842	1.843	(1.000)	2421	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.728	2.796	(1.000)	248	0.10000	
$ 33 Nitrobenzene-d5	82	2.250	2.240	(0.825)	2503	3.36193	33.62(AR)
* 86 Acenaphthene-d10	164	4.369	4.365	(1.000)	3823	0.10000	
$ 69 2-Fluorobiphenyl	172	3.784	3.777	(0.866)	1611	0.02757	0.2757(QR)
* 126 Phenanthrene-d10	188	5.760	5.755	(1.000)	6391	0.10000	
* 182 Chrysene-d12	240	8.142	8.267	(1.000)	401	0.10000	(Q)
$ 158 4-Terphenyl-d14	244	7.206	7.320	(0.885)	810	0.09915	0.9915(QR)
* 198 Perylene-d12	264	9.734	9.724	(1.000)	6929	0.10000	
1 1,4-Dioxane	58	0.693	0.690	(0.376)	1074	0.20711	2.071(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\16.D

Date : 01-JUL-2024 17:35

Client ID:

Instrument: SV6.i

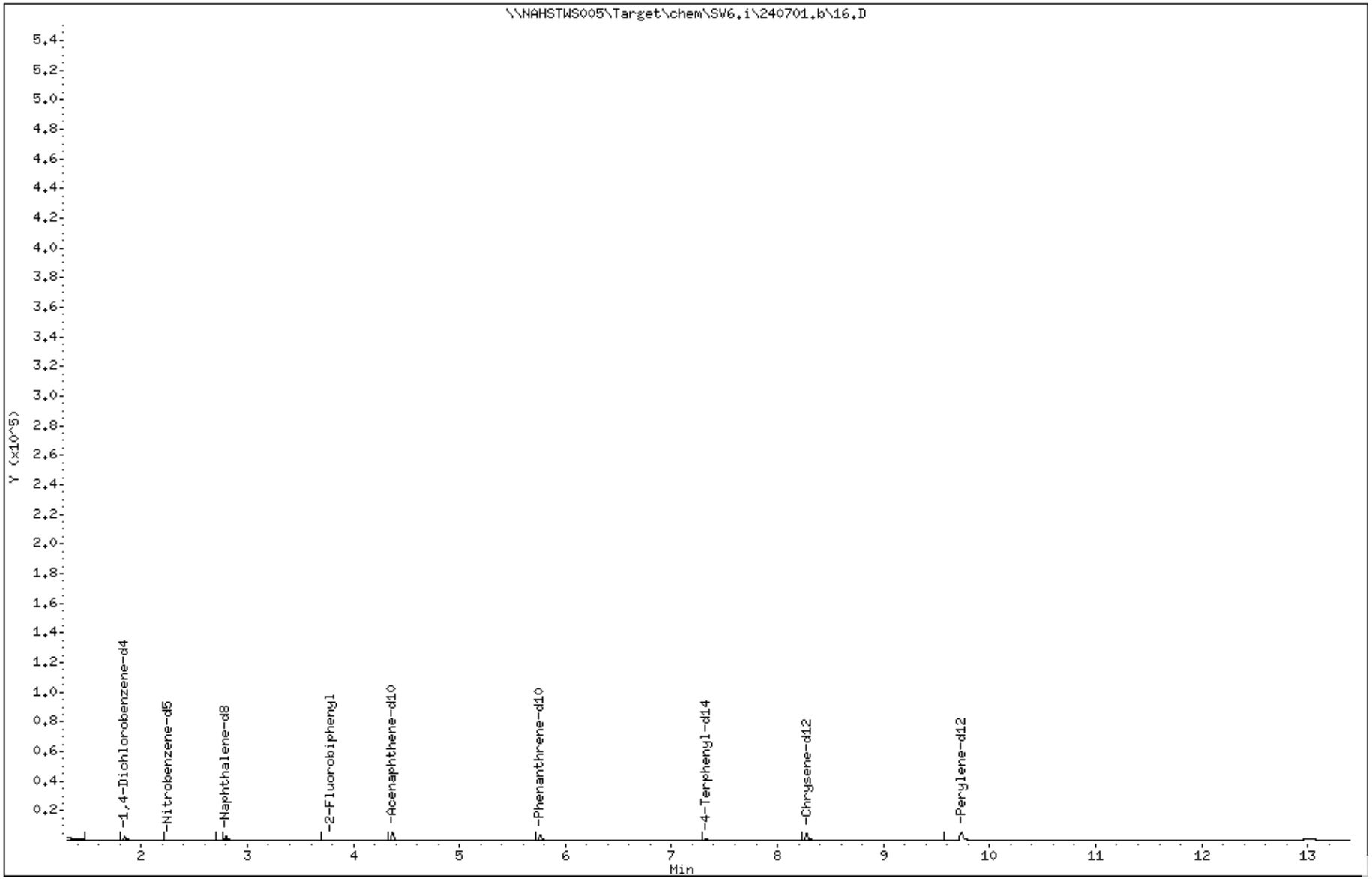
Sample Info: HS24060985-08X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\16.D Page 2

Date : 01-JUL-2024 17:35

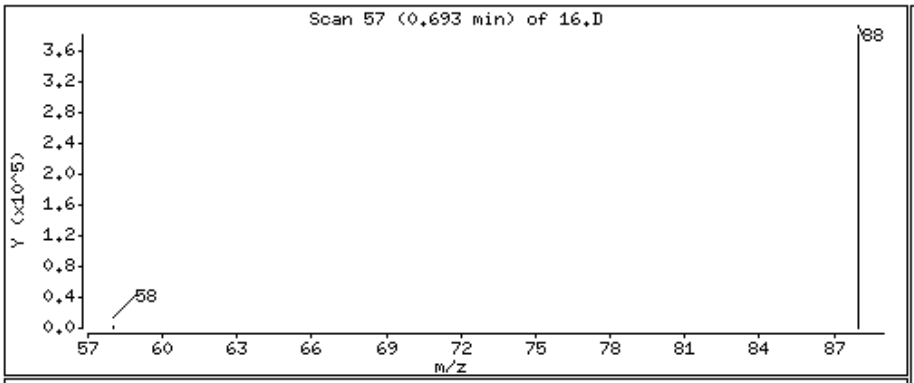
Client ID: Instrument: SV6.i

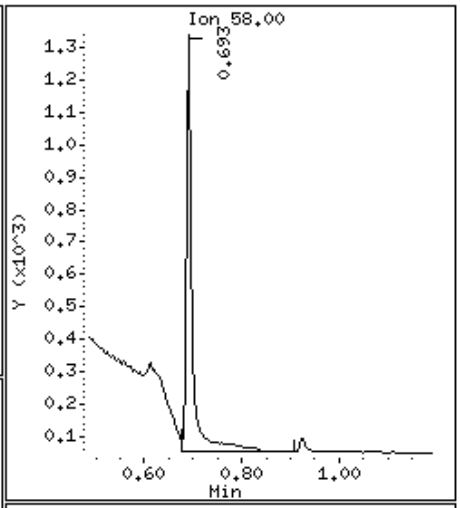
Sample Info: HS24060985-08X10

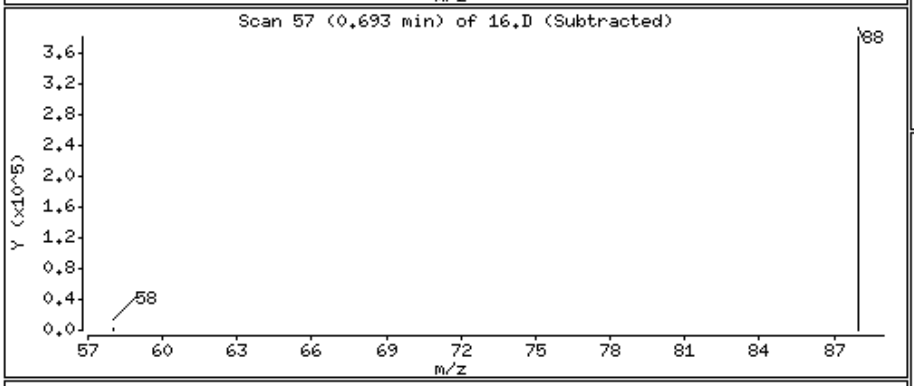
Purge Volume: 1000.0 Operator: LG

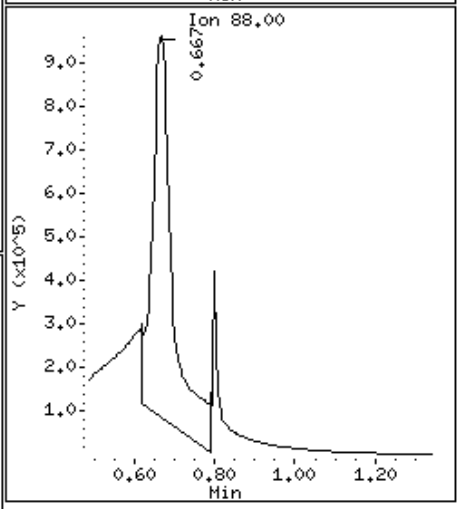
Column phase: RTX-5SIL MS Column diameter: 0.28

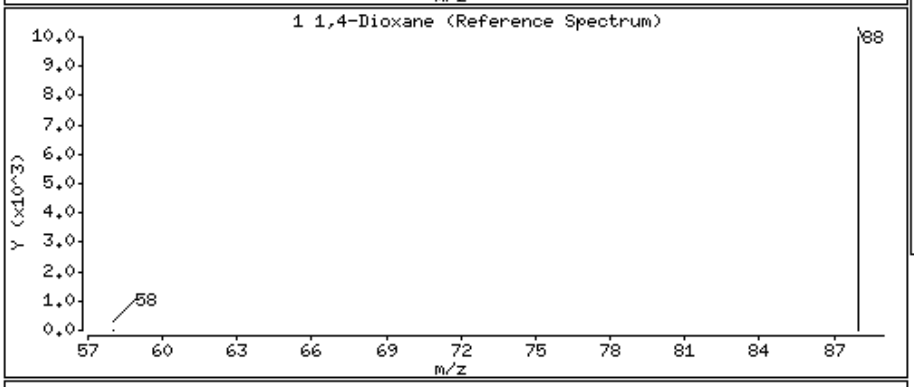
1 1,4-Dioxane Concentration: 2.071 ug/L

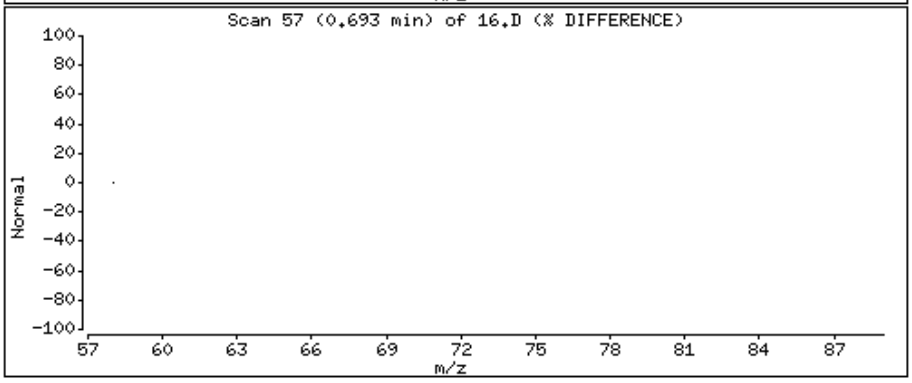












Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\16.D
Inj Date : 01-JUL-2024 17:35
InstruID : SV6.i
LabSampID : HS24060985-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240701.b\17.D Page 1
Report Date: 26-Jul-2024 08:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240701.b\17.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 01-JUL-2024 17:52
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240701.b\DXSIM.m
Meth Date : 26-Jul-2024 08:50 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	1.847	1.847	(1.000)	1707	0.10000	(aM)
* 45 Naphthalene-d8	136	2.802	2.802	(1.000)	4607	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.245	2.245	(0.801)	942	0.08000	0.06811(M)
* 86 Acenaphthene-d10	164	4.370	4.370	(1.000)	3394	0.10000	
$ 69 2-Fluorobiphenyl	172	3.784	3.784	(0.866)	4441	0.08000	0.08560
* 126 Phenanthrene-d10	188	5.760	5.760	(1.000)	5519	0.10000	
* 182 Chrysene-d12	240	8.277	8.277	(1.000)	5165	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.325	7.325	(0.885)	7063	0.08000	0.06712(QM)
* 198 Perylene-d12	264	9.734	9.734	(1.000)	5941	0.10000	
1 1,4-Dioxane	58	0.696	0.696	(0.377)	246	0.08000	0.06728(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\240701.b\17.D

Date : 01-JUL-2024 17:52

Client ID: 14DX-0.08

Instrument: SV6.i

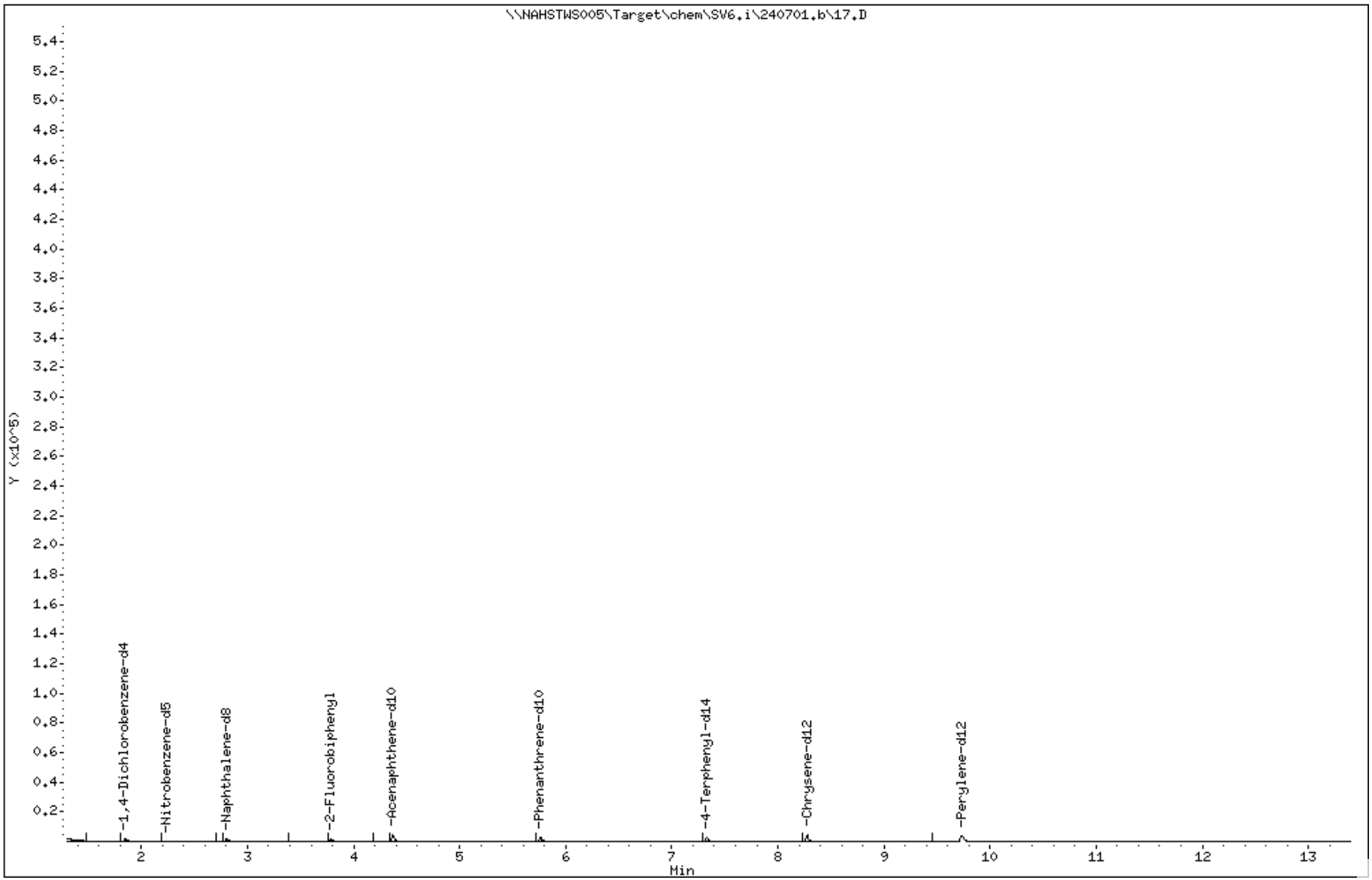
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



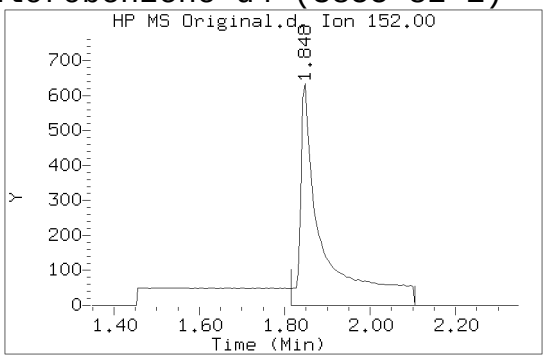
Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\17.D
Inj Date : 01-JUL-2024 17:52
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code: MBA

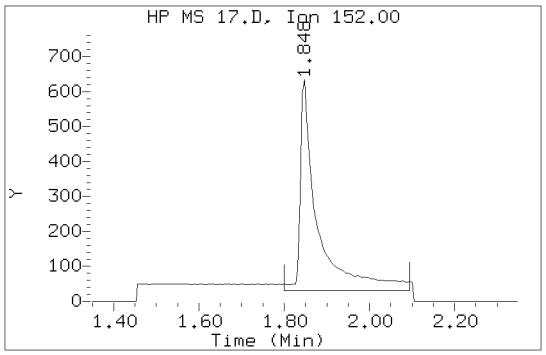
BEFORE

MASS
152
AREA
2236
HEIGHT
634
01-Jul-2024
18:12
ALSHS
Server



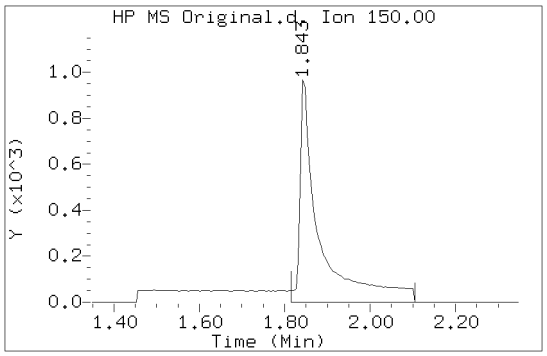
AFTER

MASS
152
AREA
1707
HEIGHT
603
26-Jul-2024
08:50
ALSHS
S



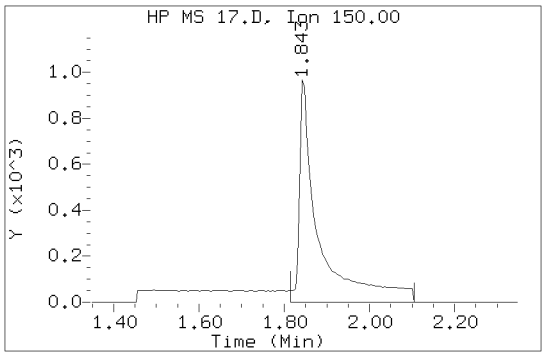
BEFORE

MASS
150
AREA
3042
HEIGHT
967
01-Jul-2024
18:12
ALSHS
Server



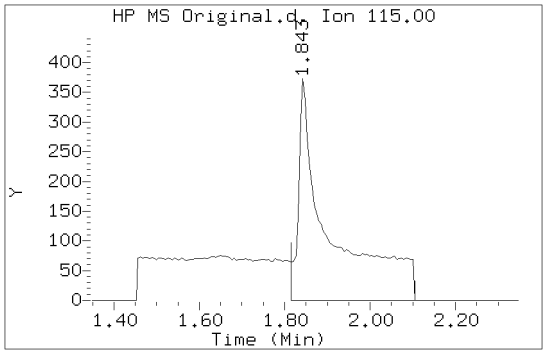
AFTER

MASS
150
AREA
3042
HEIGHT
967
26-Jul-2024
08:50
ALSHS
S



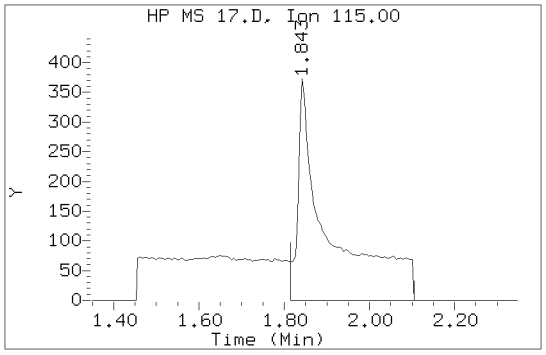
BEFORE

MASS
115
AREA
1866
HEIGHT
373
01-Jul-2024
18:12
ALSHS
Server



AFTER

MASS
115
AREA
1866
HEIGHT
373
26-Jul-2024
08:50
ALSHS
S

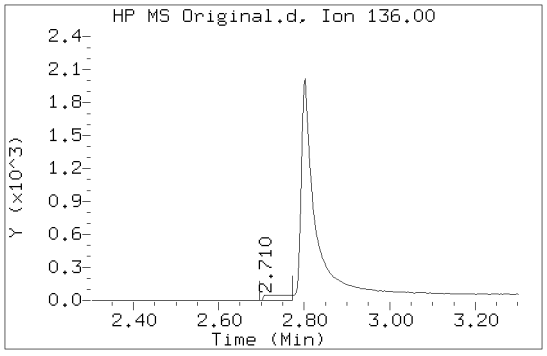


Naphthalene-d8 (1146-65-2)

Reason Code: MBA

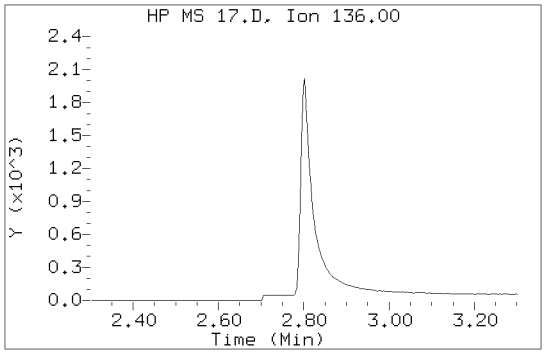
BEFORE

MASS
136
AREA
207
HEIGHT
48
01-Jul-2024
18:12
ALSHS
Server



AFTER

MASS
136
AREA
4607
HEIGHT
1970
26-Jul-2024
08:50
ALSHS
S



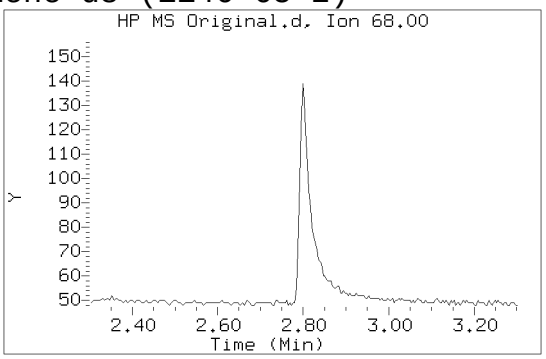
Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\17.D
Inj Date : 01-JUL-2024 17:52
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code: MBA

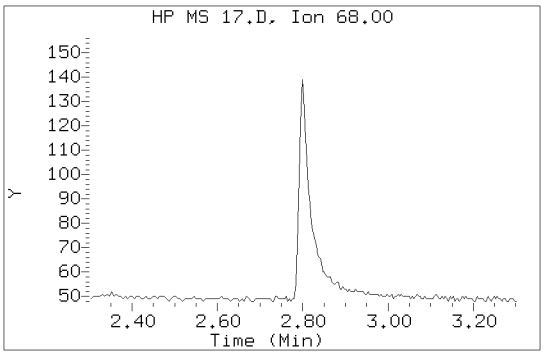
BEFORE

MASS
68
AREA
0
HEIGHT
0
01-Jul-2024
18:12
ALSHS
Server



AFTER

MASS
68
AREA
238
HEIGHT
91
26-Jul-2024
08:50
ALSHS
S

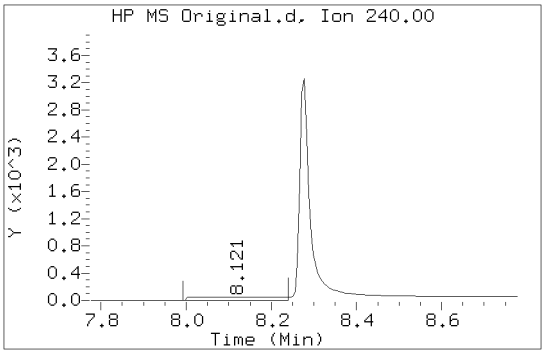


Chrysene-d12 (1719-03-5)

Reason Code:

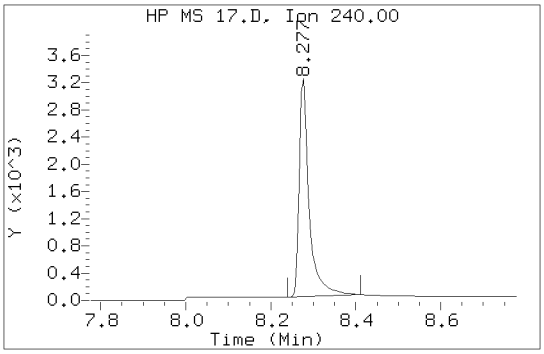
BEFORE

MASS
240
AREA
704
HEIGHT
50
01-Jul-2024
18:12
ALSHS
Server



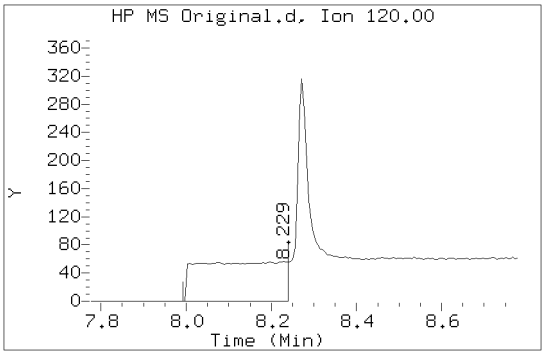
AFTER

MASS
240
AREA
5165
HEIGHT
3202
26-Jul-2024
08:50
ALSHS
S



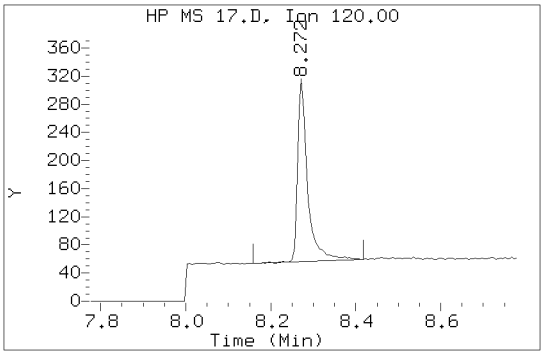
BEFORE

MASS
120
AREA
786
HEIGHT
57
01-Jul-2024
18:12
ALSHS
Server



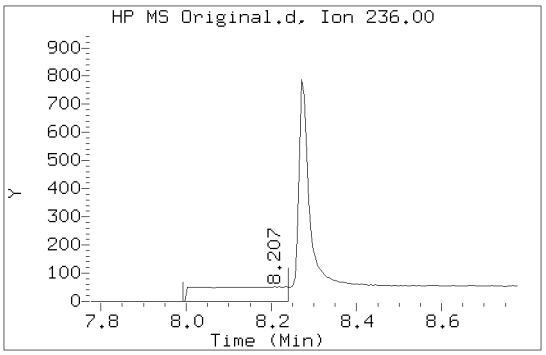
AFTER

MASS
120
AREA
421
HEIGHT
259
26-Jul-2024
08:50
ALSHS
S



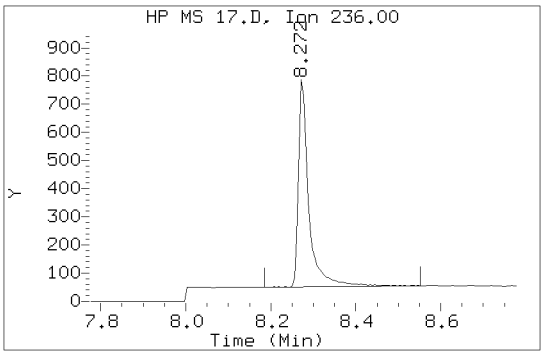
BEFORE

MASS
236
AREA
725
HEIGHT
52
01-Jul-2024
18:12
ALSHS
Server



AFTER

MASS
236
AREA
1259
HEIGHT
736
26-Jul-2024
08:50
ALSHS
S

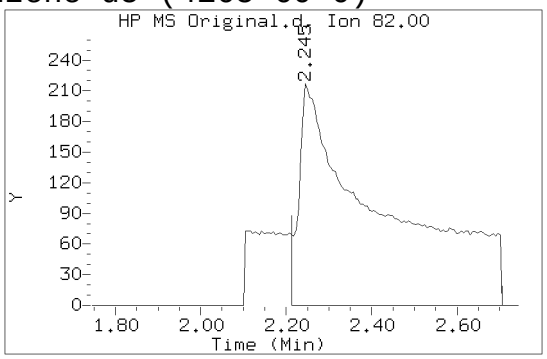


Data File : \\NAHSTWS005\Target\chem\SV6.i\240701.b\17.D
Inj Date : 01-JUL-2024 17:52
InstruID : SV6.i
LabSampID : 14DX-0.08

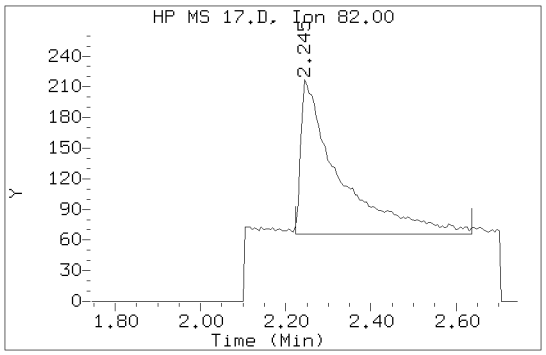
Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

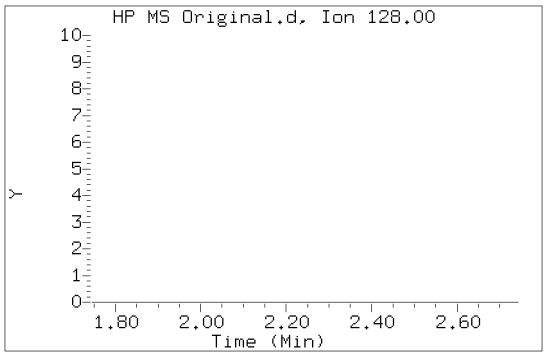
BEFORE
MASS
82
AREA
2914
HEIGHT
217
01-Jul-2024
18:12
ALSHS
Server



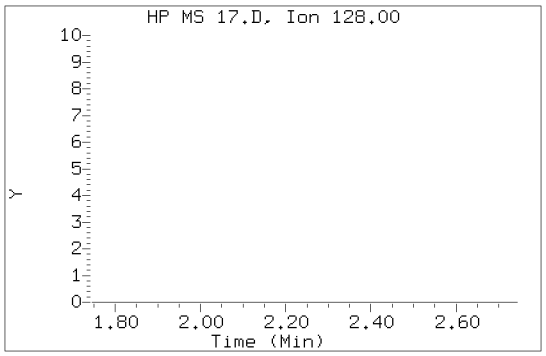
AFTER
MASS
82
AREA
942
HEIGHT
151
26-Jul-2024
08:50
ALSHS
S



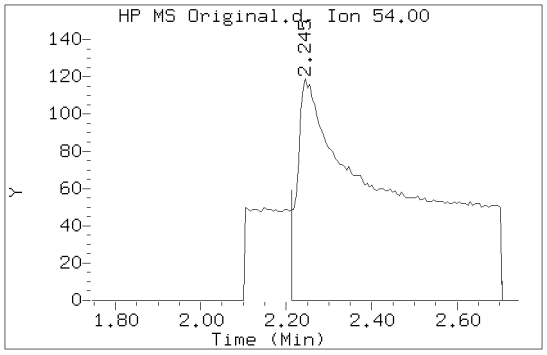
BEFORE
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
18:12
ALSHS
Server



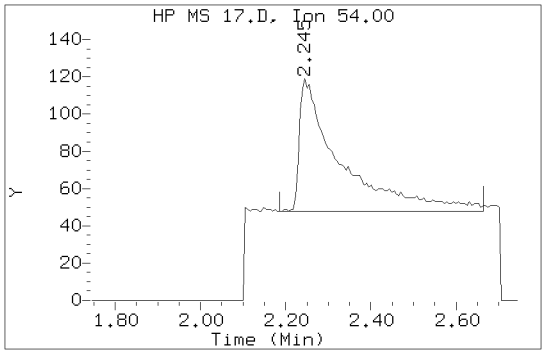
AFTER
MASS
128
AREA
0
HEIGHT
0
26-Jul-2024
08:50
ALSHS
S



BEFORE
MASS
54
AREA
1898
HEIGHT
119
01-Jul-2024
18:12
ALSHS
Server



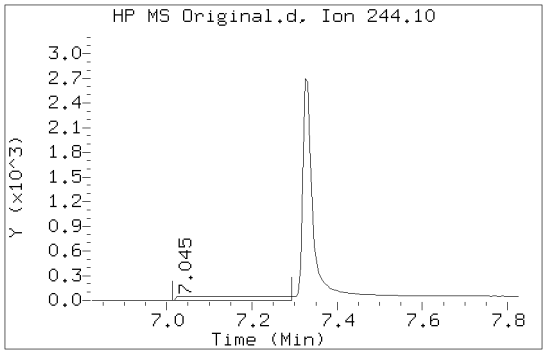
AFTER
MASS
54
AREA
471
HEIGHT
71
26-Jul-2024
08:50
ALSHS
S



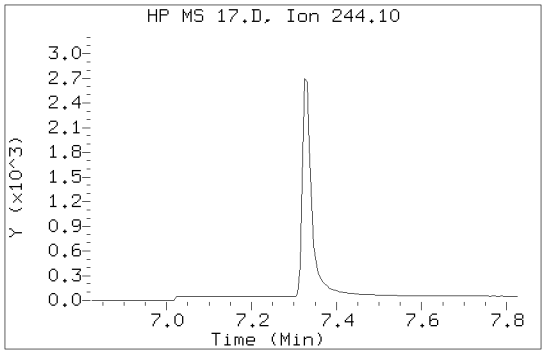
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
760
HEIGHT
47
01-Jul-2024
18:12
ALSHS
Server



AFTER
MASS
244.1
AREA
7063
HEIGHT
2696
26-Jul-2024
08:50
ALSHS
S



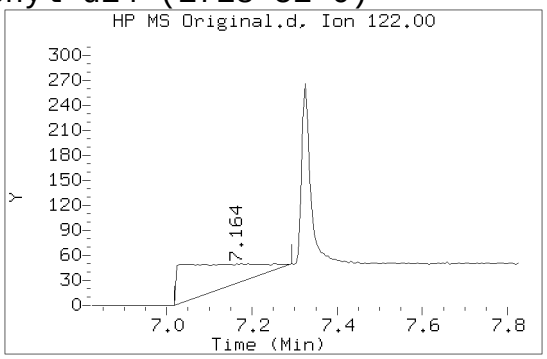
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InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

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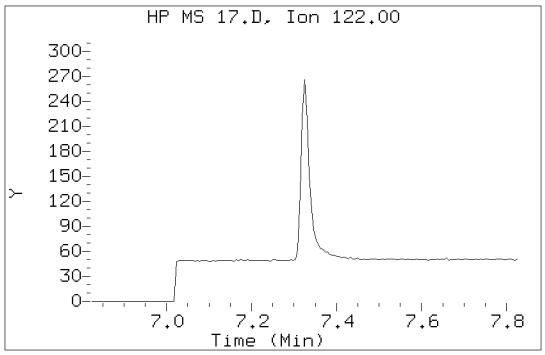
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01-Jul-2024
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Server



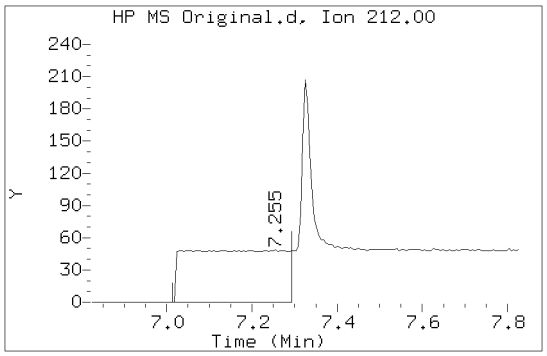
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S



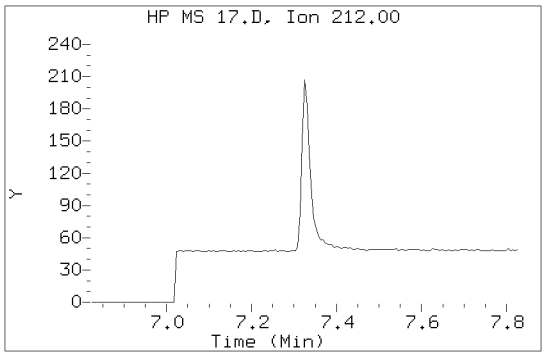
BEFORE

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HEIGHT
49
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18:12
ALSHS
Server



AFTER

MASS
212
AREA
3064
HEIGHT
207
26-Jul-2024
08:50
ALSHS
S



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060985

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/26/2024

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

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1

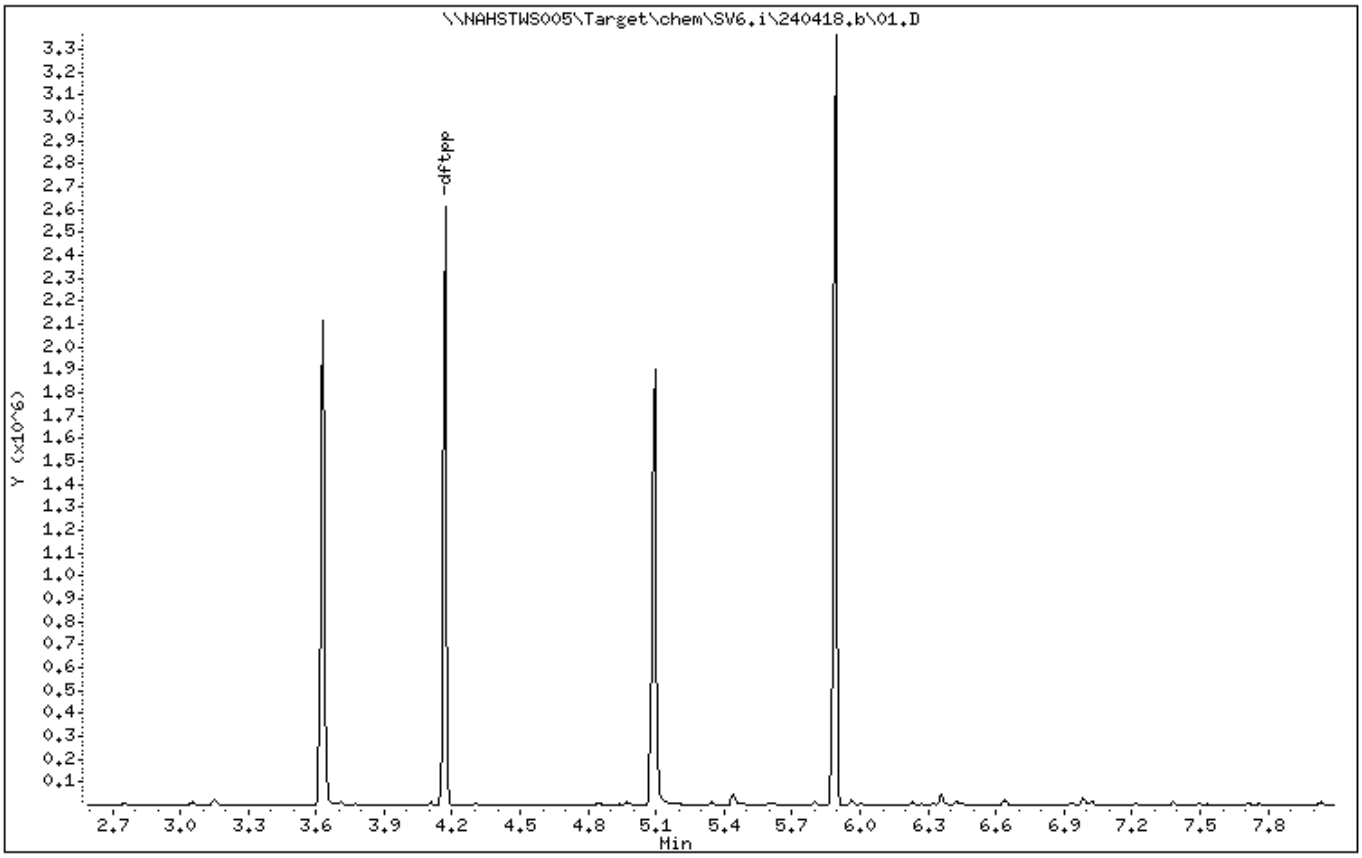
Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 2

Date : 18-APR-2024 10:39

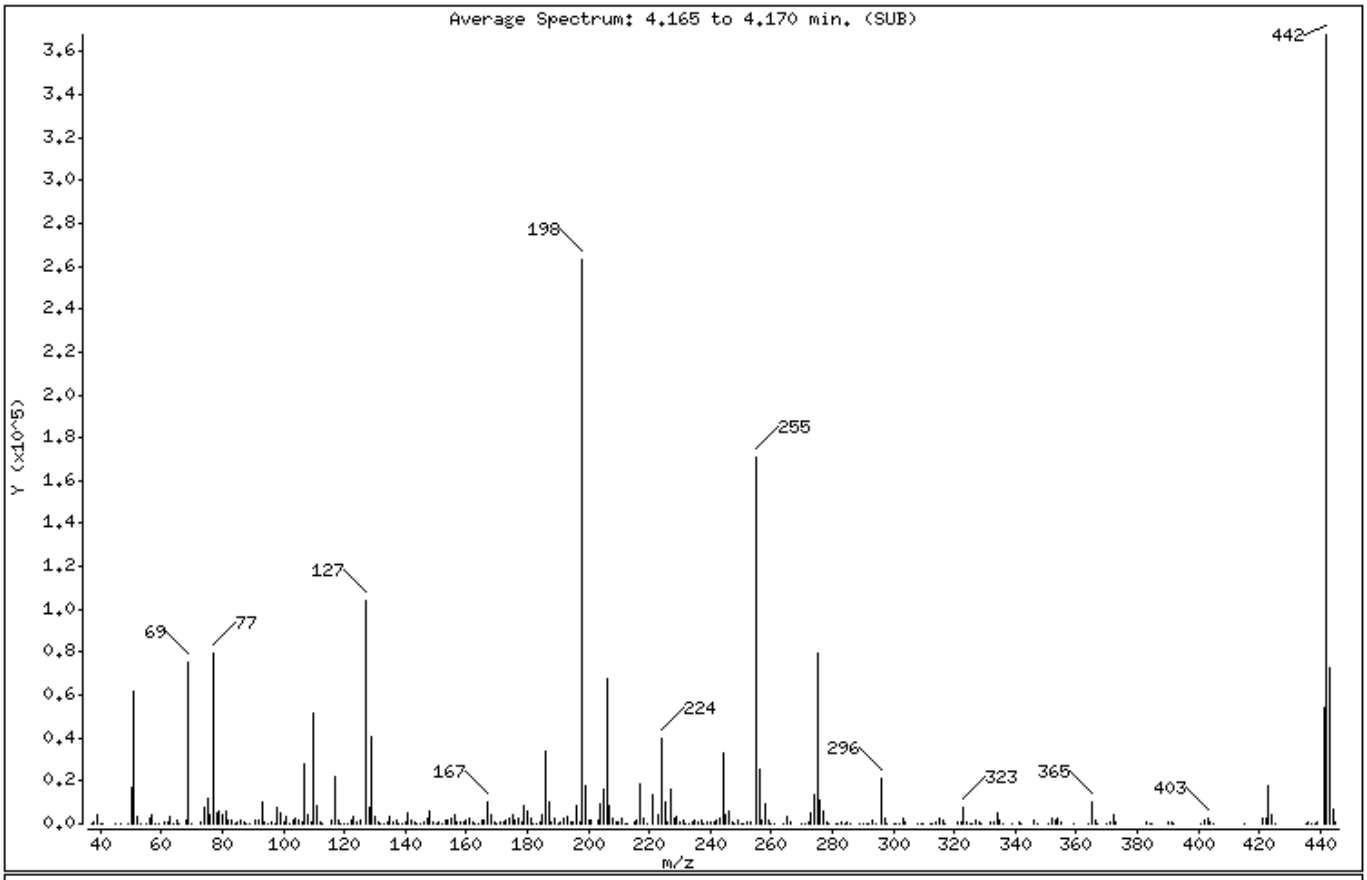
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 5

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

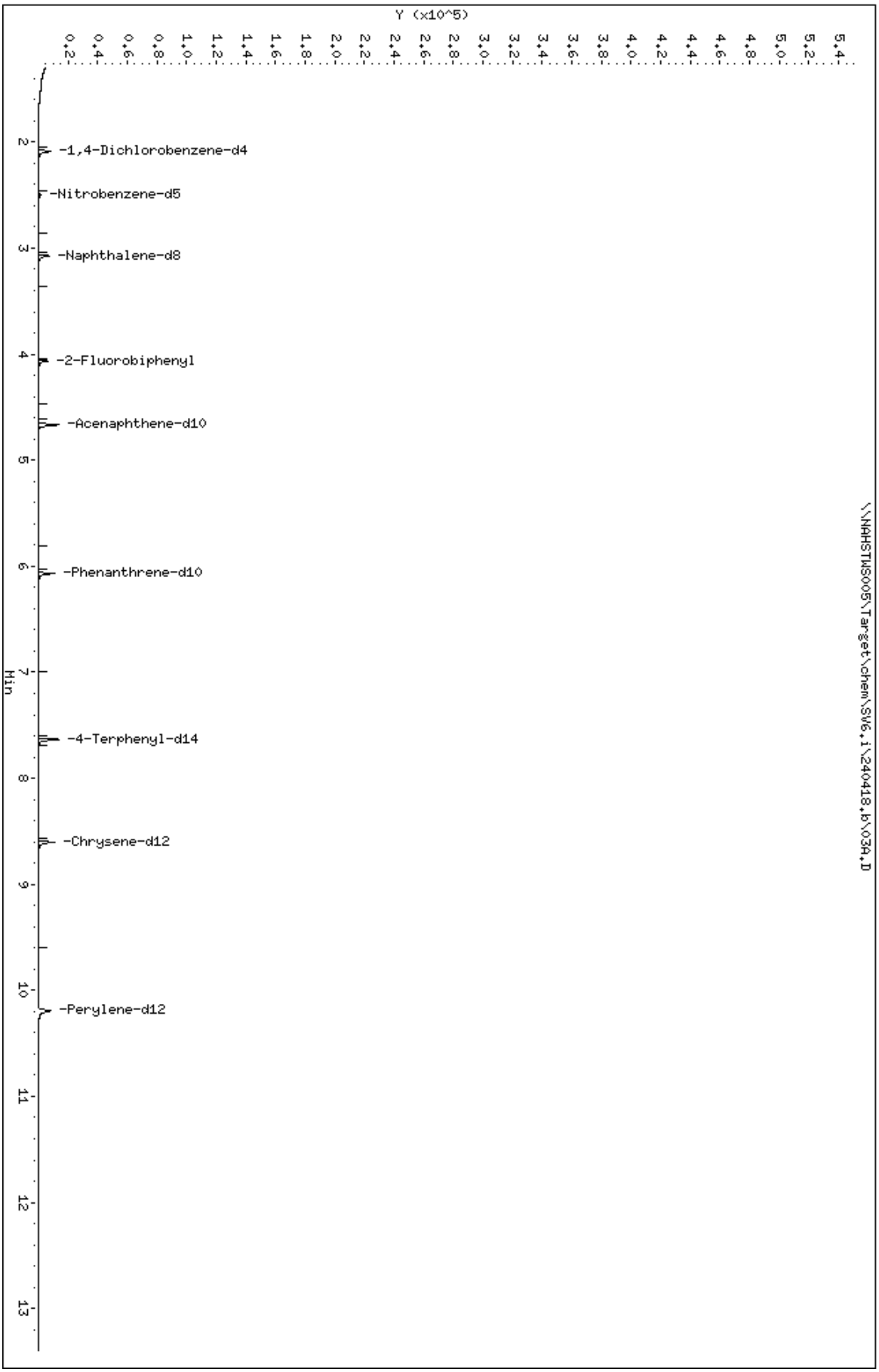
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Date : 18-APR-2024 12:24
Client ID: 14DX-0.08
Sample Info: 14DX-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

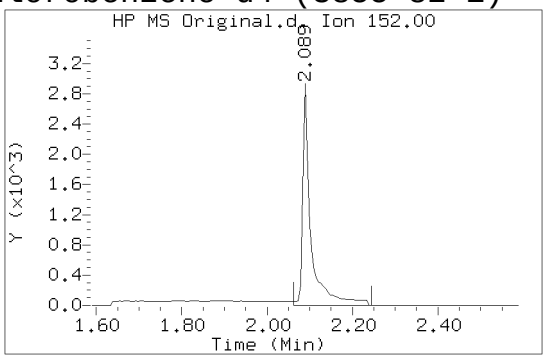


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

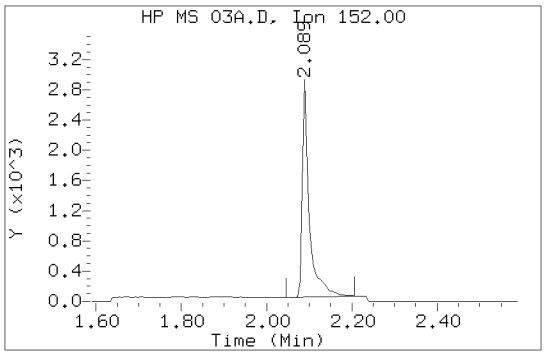
1,4-Dichlorobenzene-d4 (3855-82-1)

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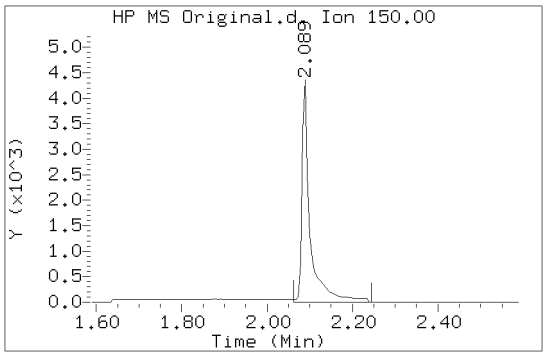
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



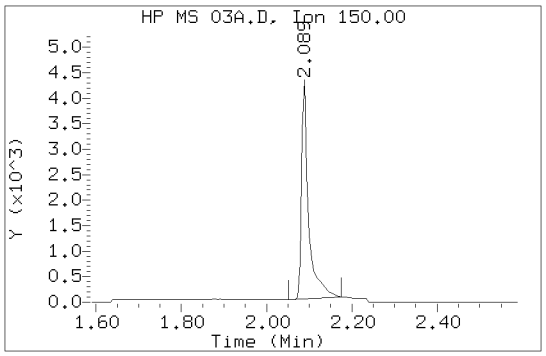
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



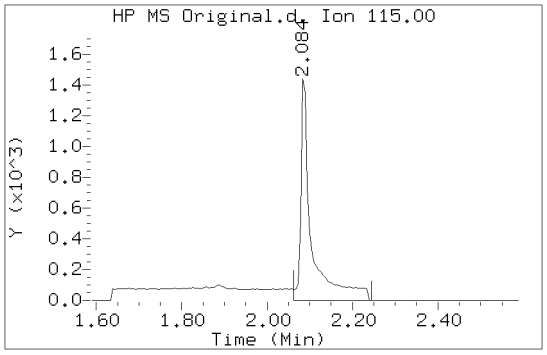
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



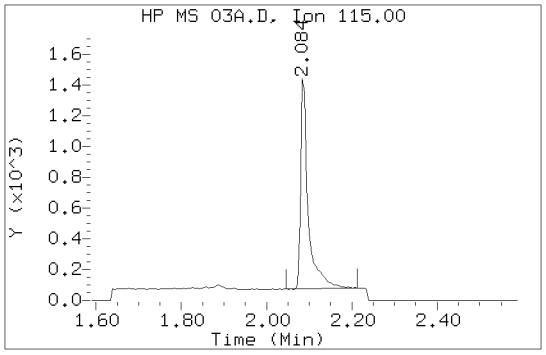
AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



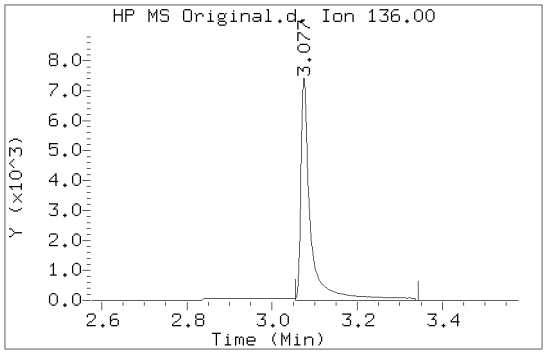
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



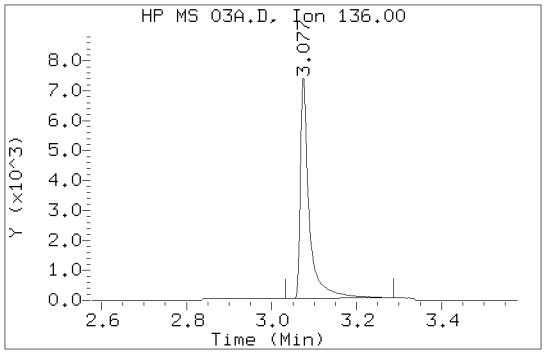
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05



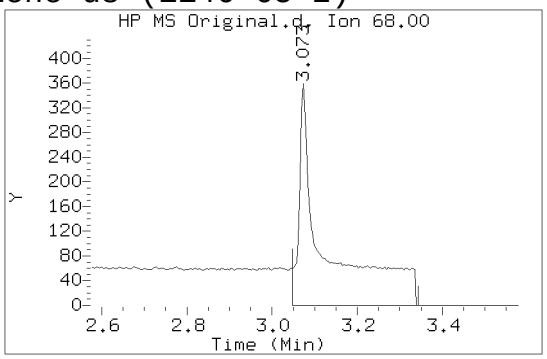
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

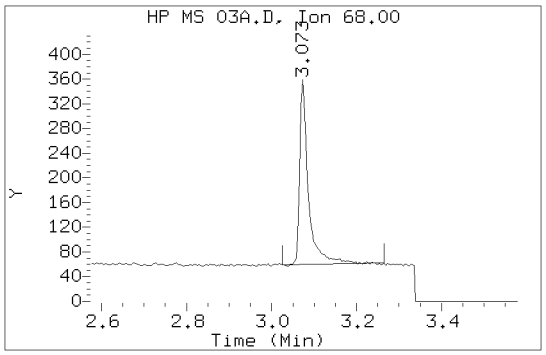
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05

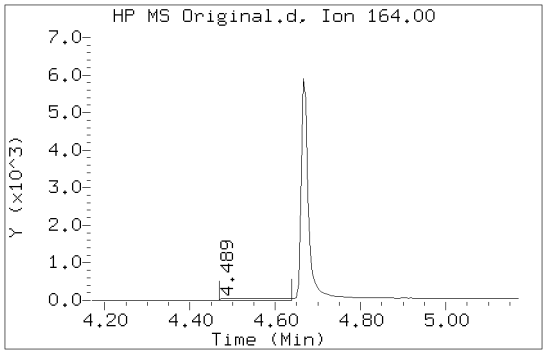


Acenaphthene-d10 (15067-26-2)

Reason Code:

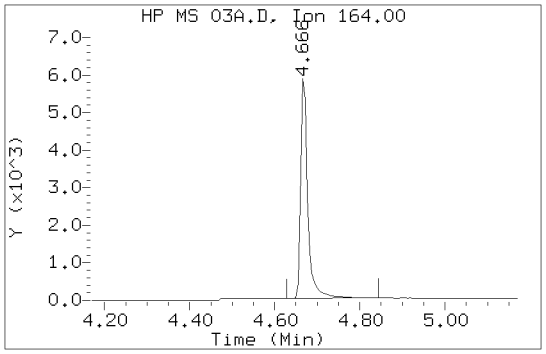
BEFORE

MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



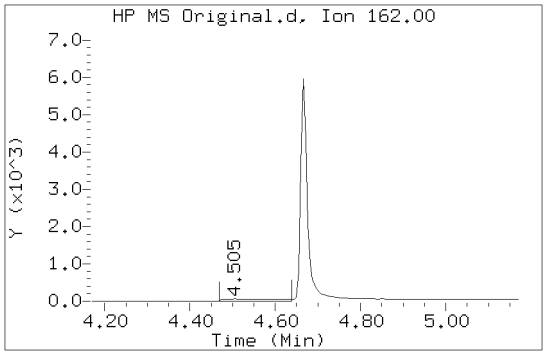
AFTER

MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



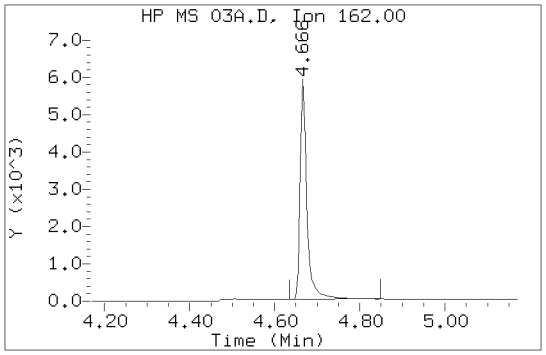
BEFORE

MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



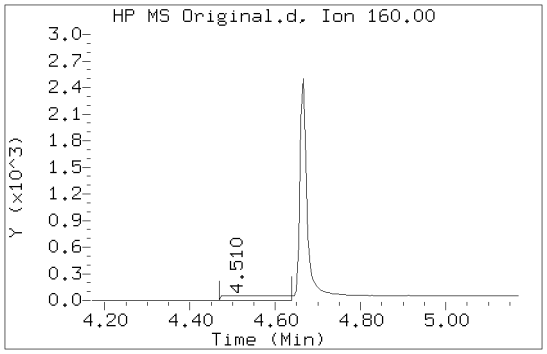
AFTER

MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



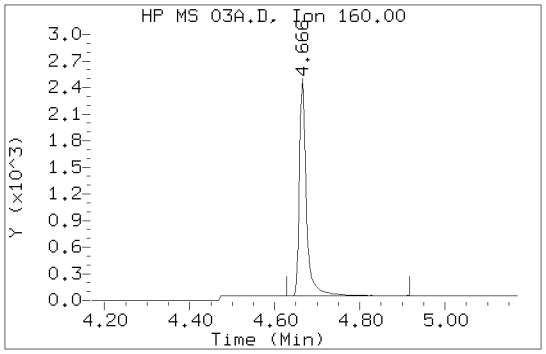
BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05



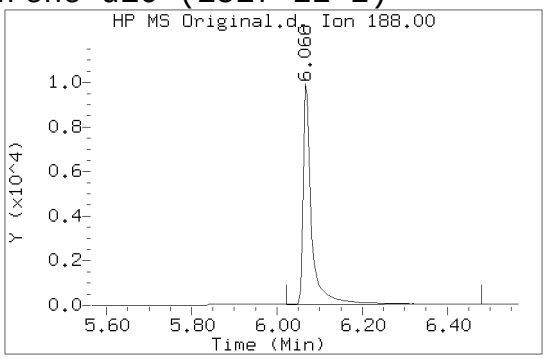
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

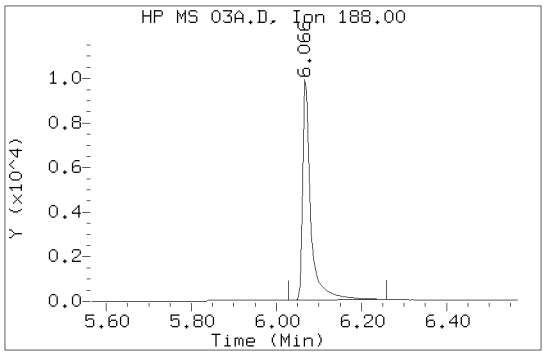
BEFORE

MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



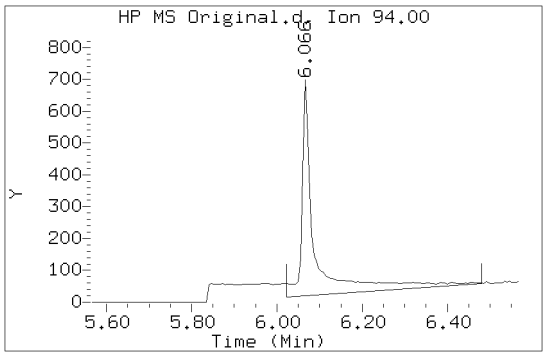
AFTER

MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



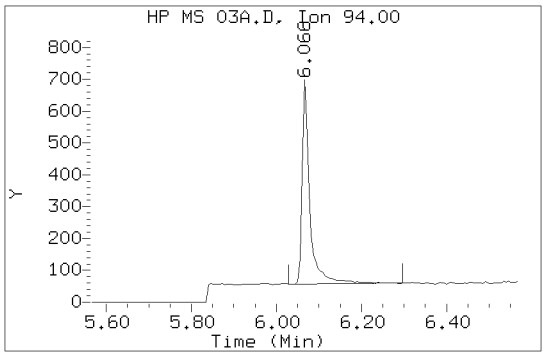
BEFORE

MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



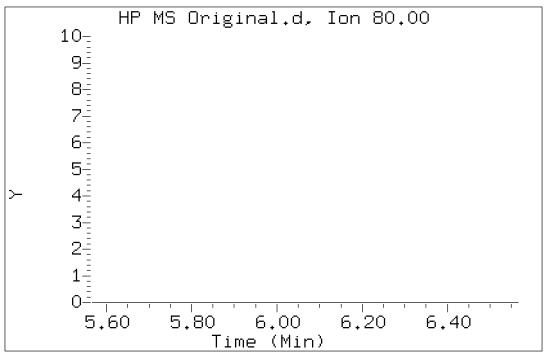
AFTER

MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



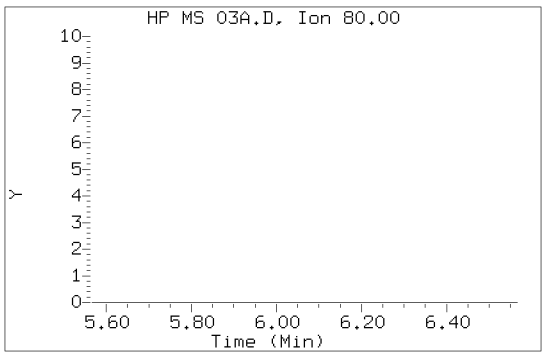
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

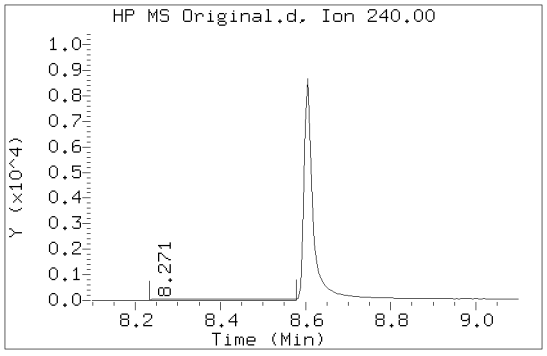


Chrysene-d12 (1719-03-5)

Reason Code:

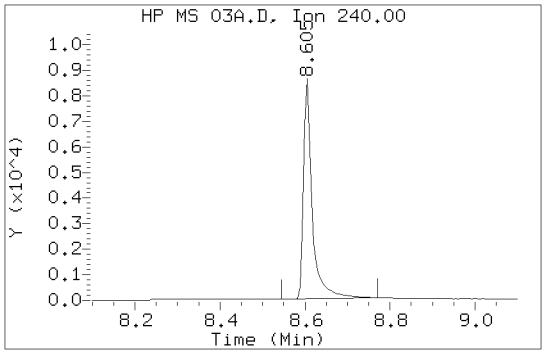
BEFORE

MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05



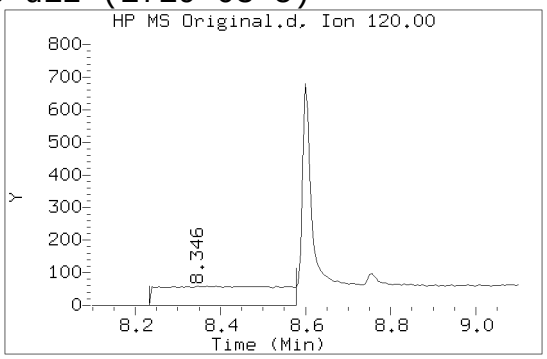
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

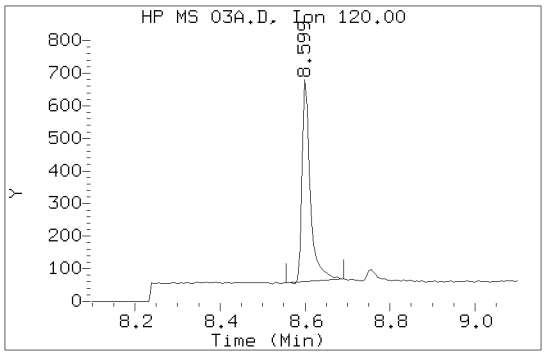
BEFORE

MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



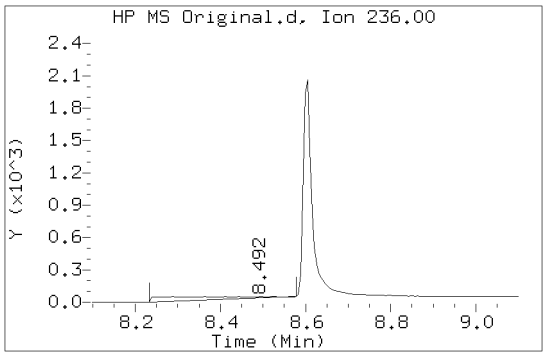
AFTER

MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



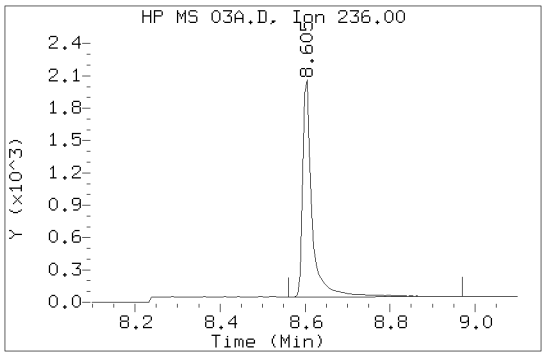
BEFORE

MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05

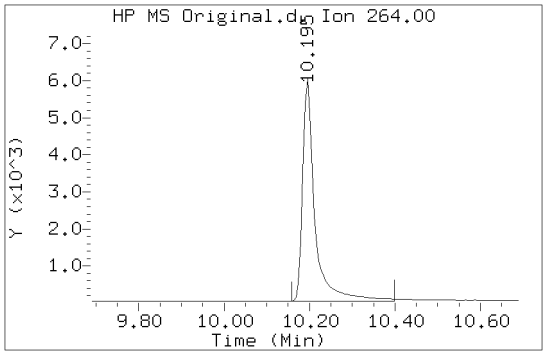


Perylene-d12 (1520-96-3)

Reason Code:

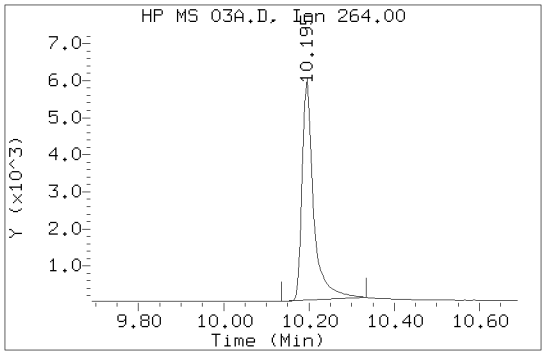
BEFORE

MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



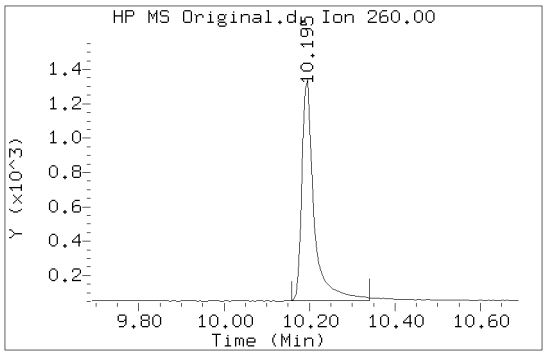
AFTER

MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



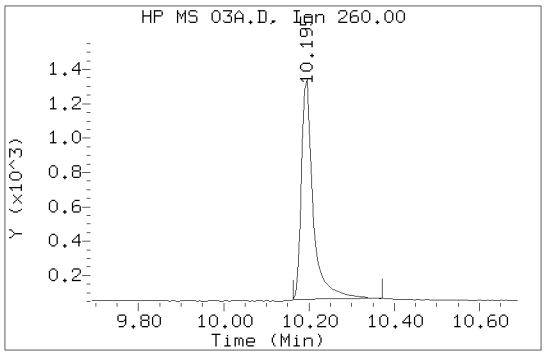
BEFORE

MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



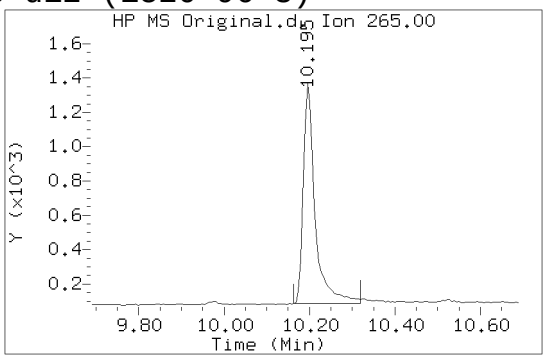
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

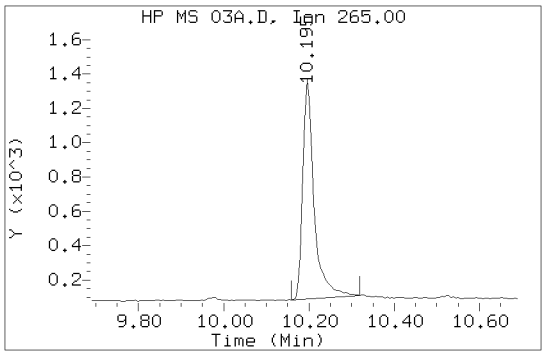
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

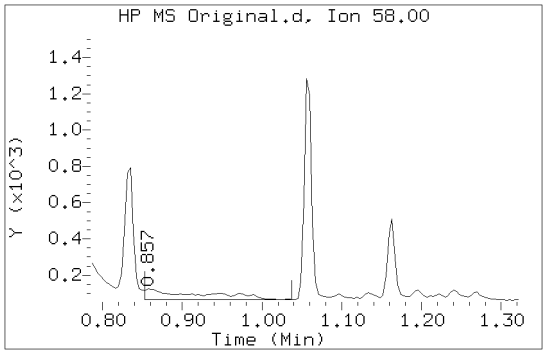


1,4-Dioxane ()

Reason Code:

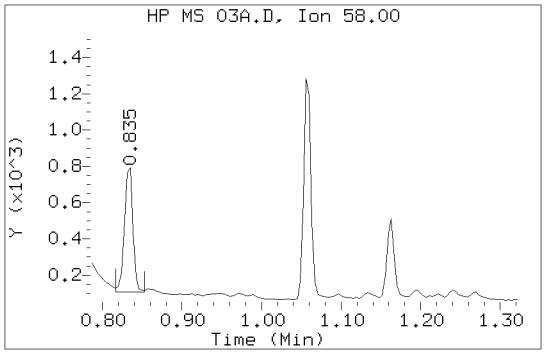
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



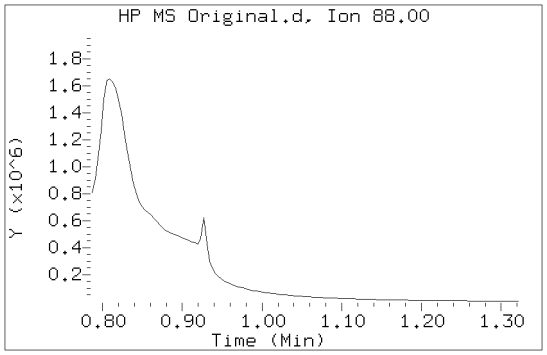
AFTER

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



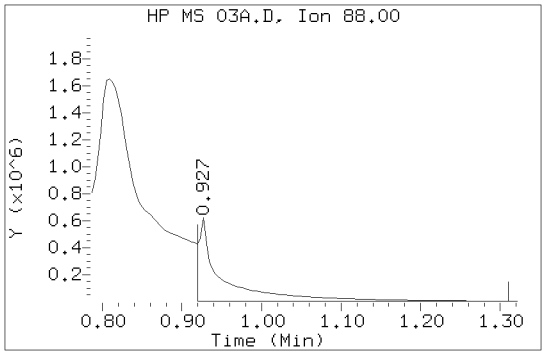
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

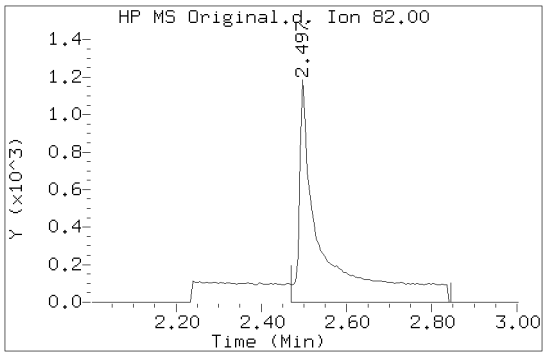


Nitrobenzene-d5 (4165-60-0)

Reason Code:

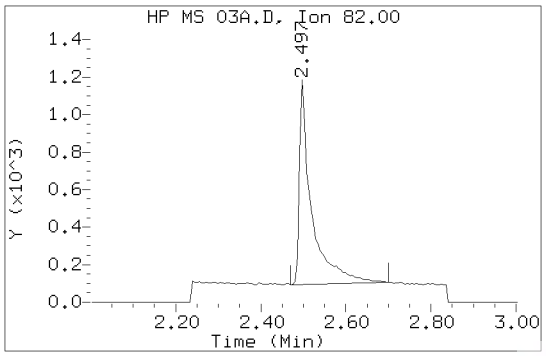
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

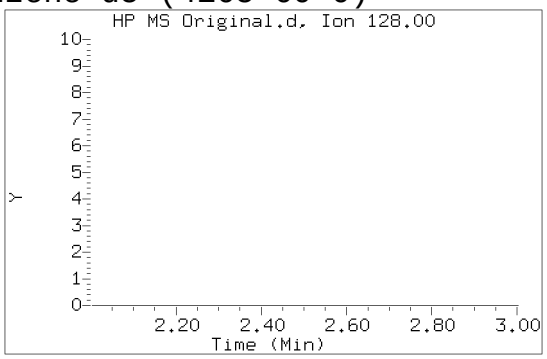


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

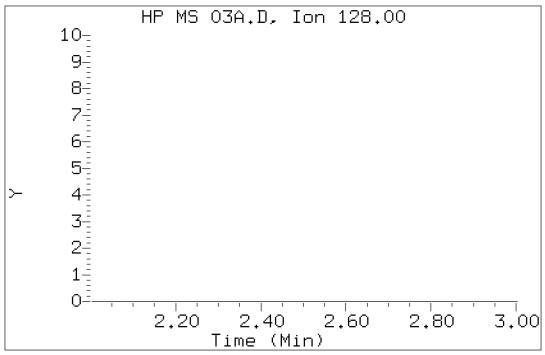
Nitrobenzene-d5 (4165-60-0)

Reason Code:

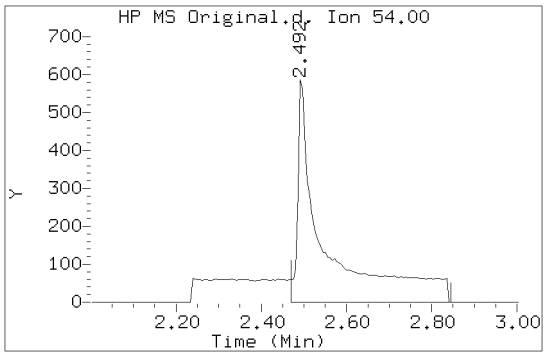
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



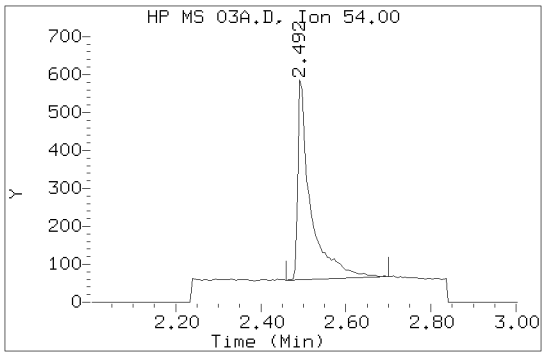
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



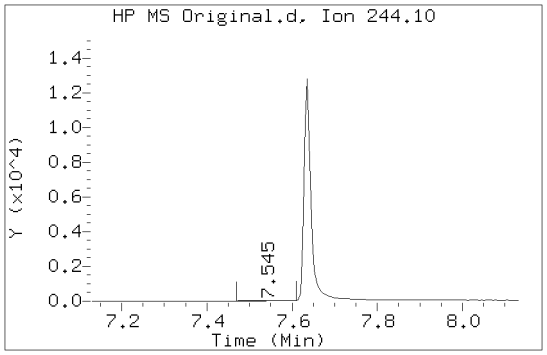
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



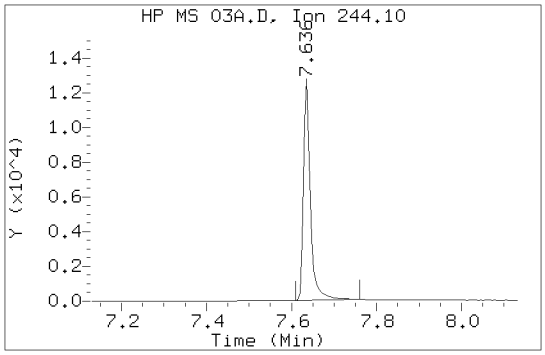
4-Terphenyl-d14 (1718-51-0)

Reason Code:

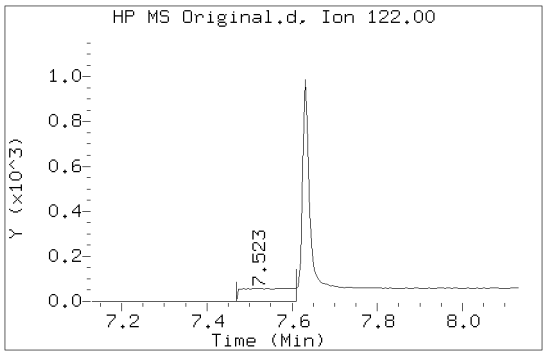
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



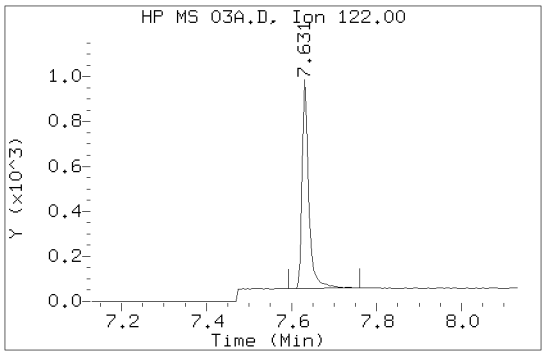
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05

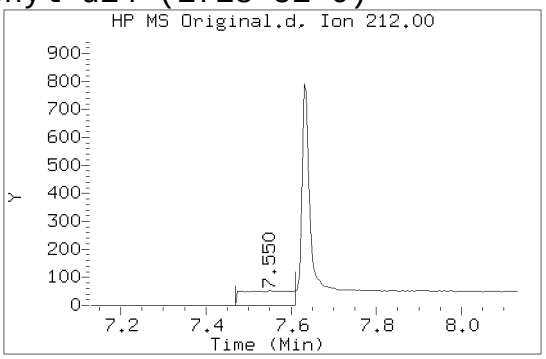


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

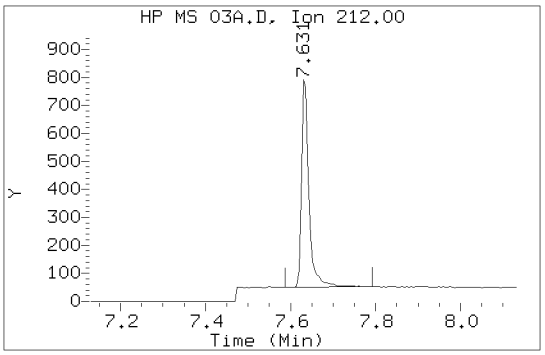
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

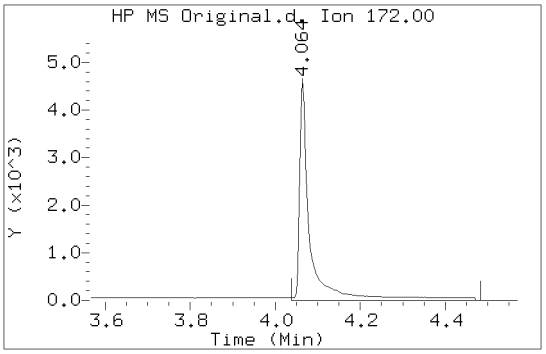


Reason Code:

2-Fluorobiphenyl (321-60-8)

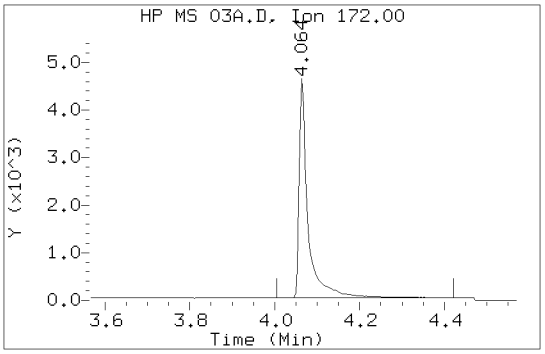
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



AFTER

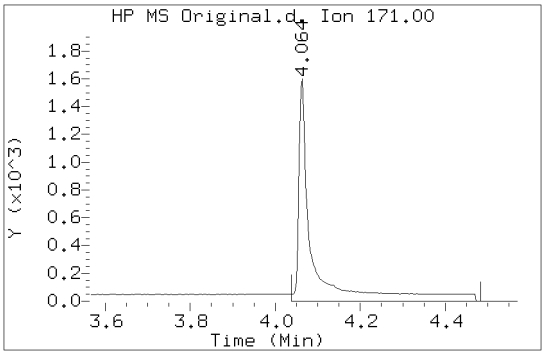
MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



Reason Code:

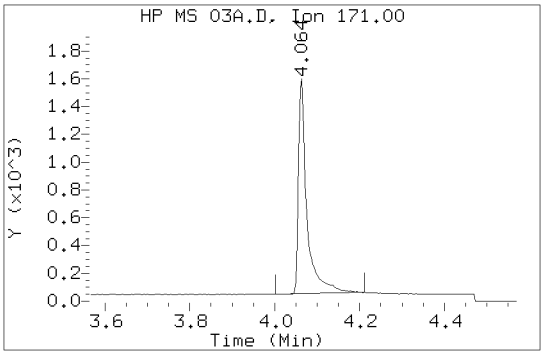
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Reason Code:

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

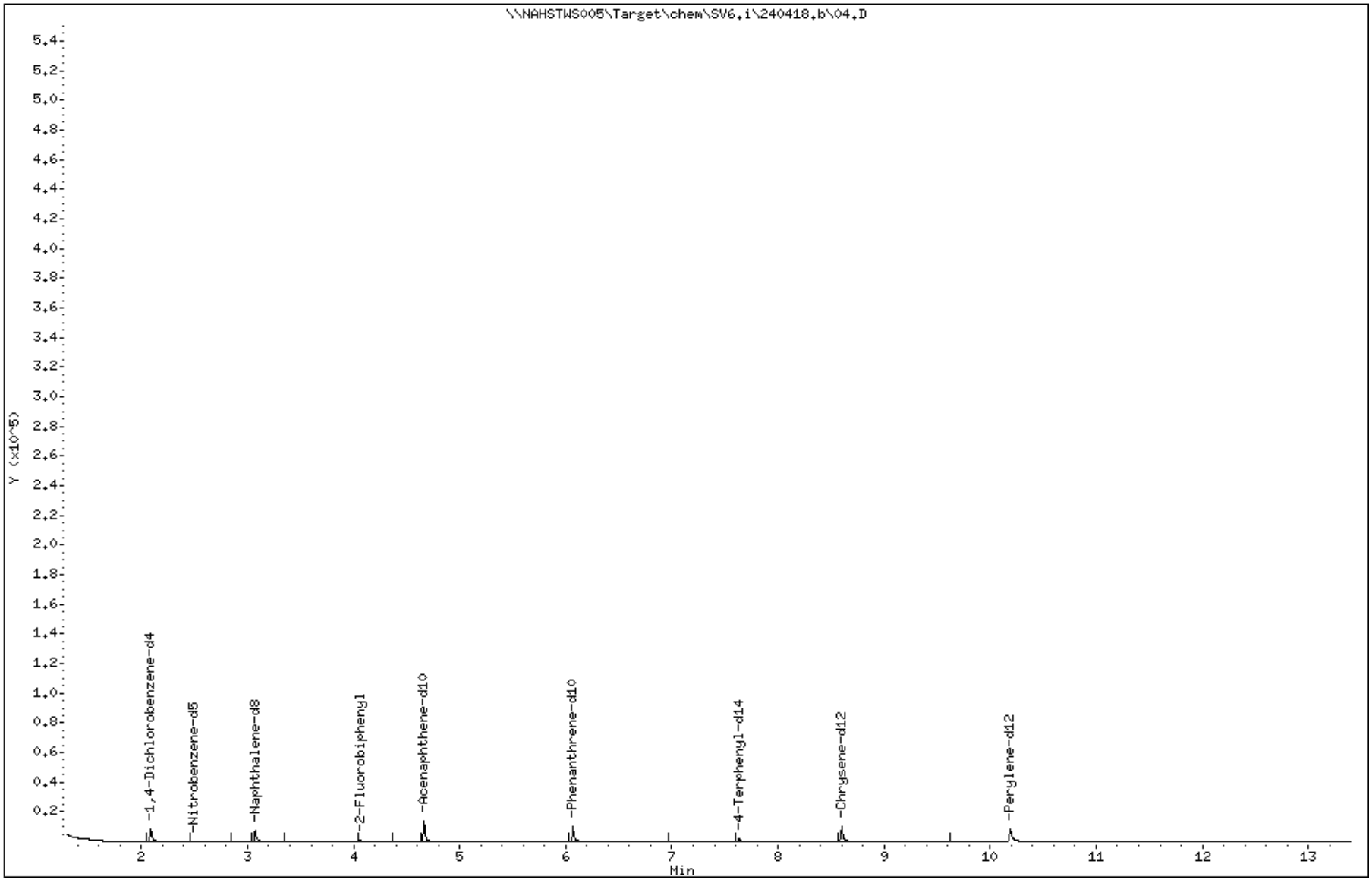
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



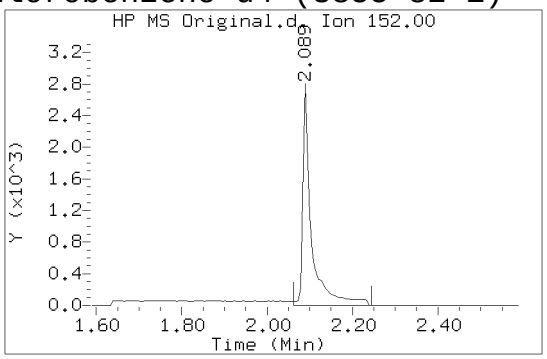
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

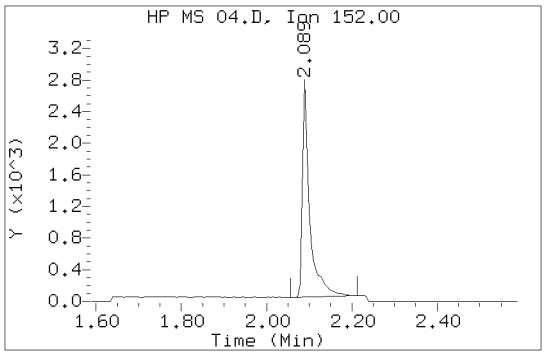
BEFORE

MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



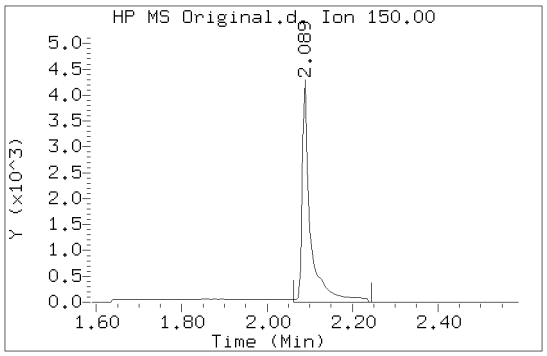
AFTER

MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



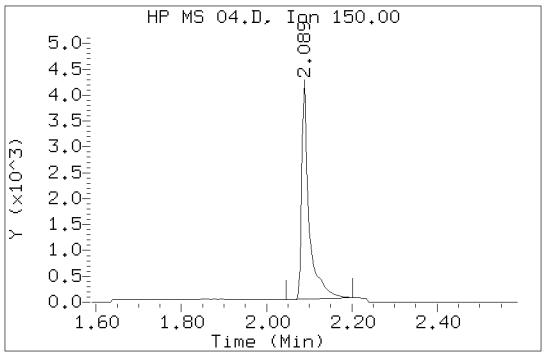
BEFORE

MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



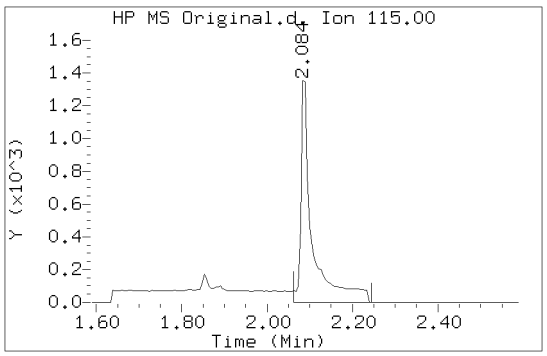
AFTER

MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



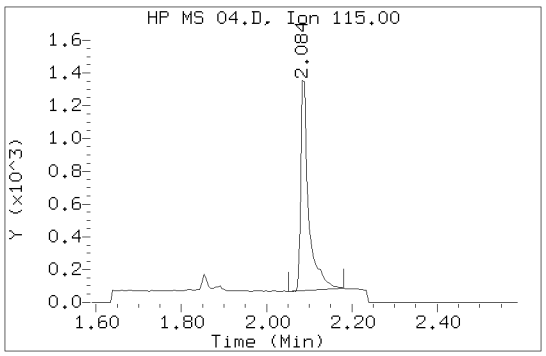
BEFORE

MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05

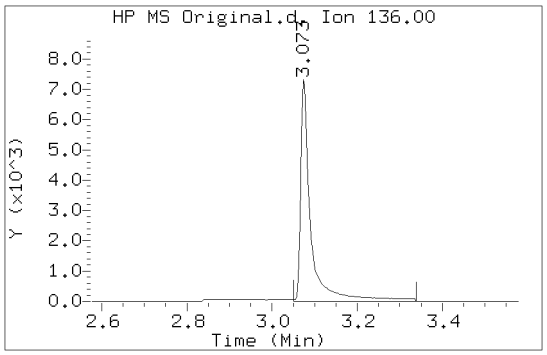


Naphthalene-d8 (1146-65-2)

Reason Code:

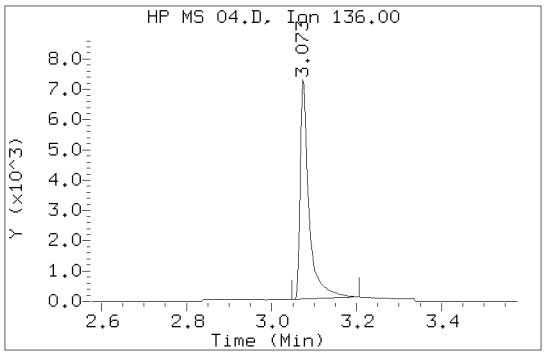
BEFORE

MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



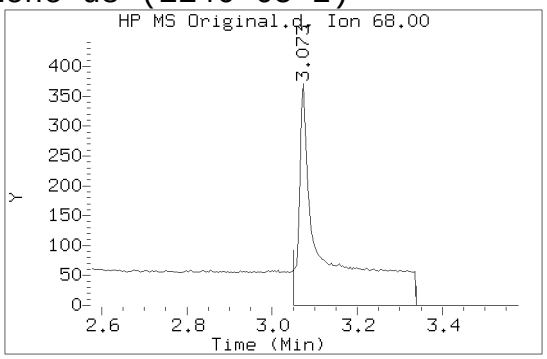
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

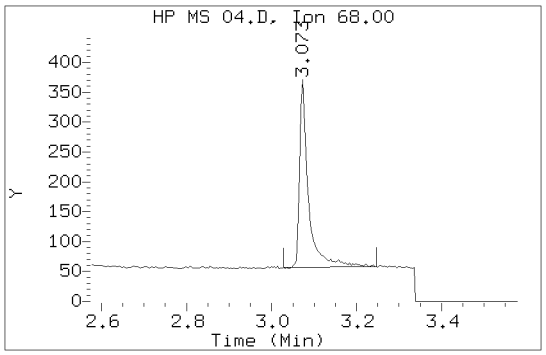
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

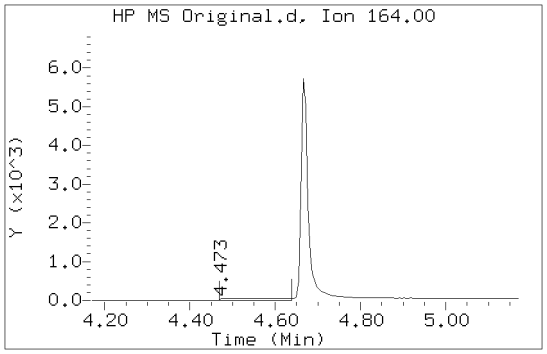


Acenaphthene-d10 (15067-26-2)

Reason Code:

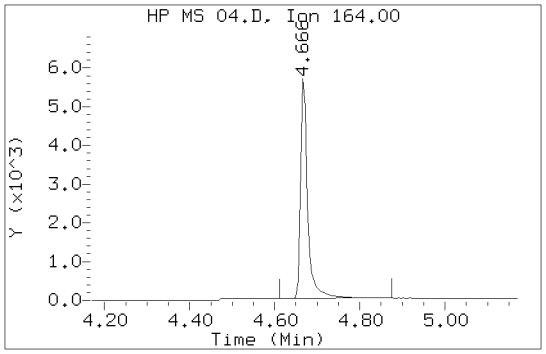
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



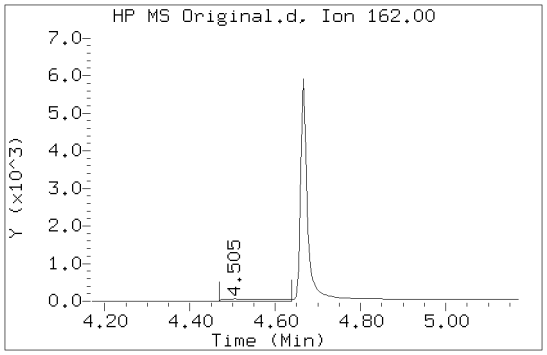
AFTER

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



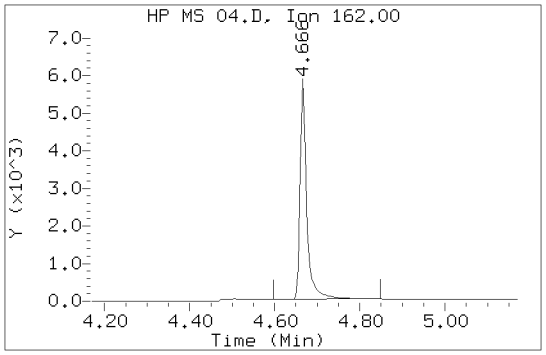
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



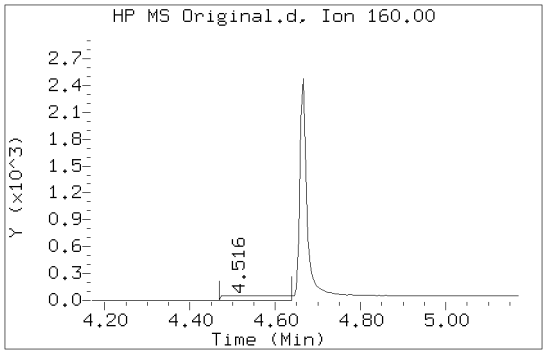
AFTER

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



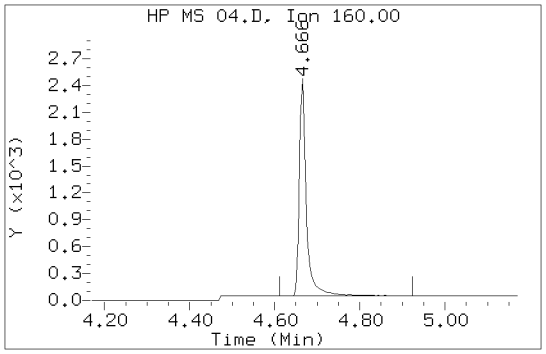
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



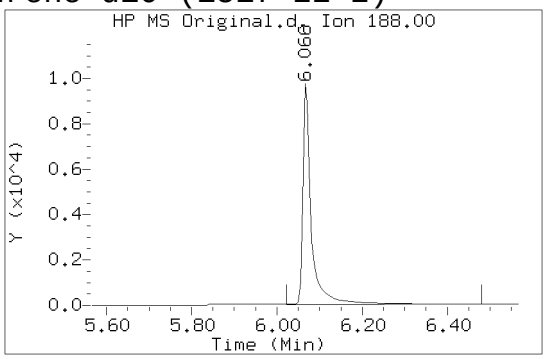
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Phenanthrene-d10 (1517-22-2)

Reason Code:

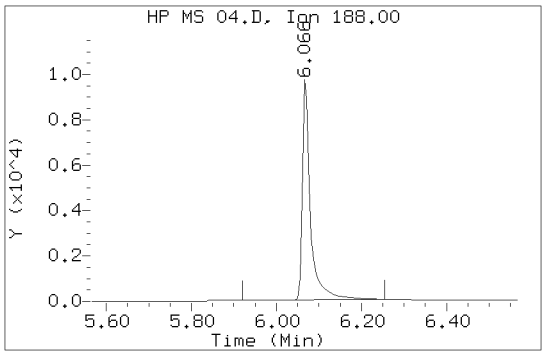
BEFORE

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



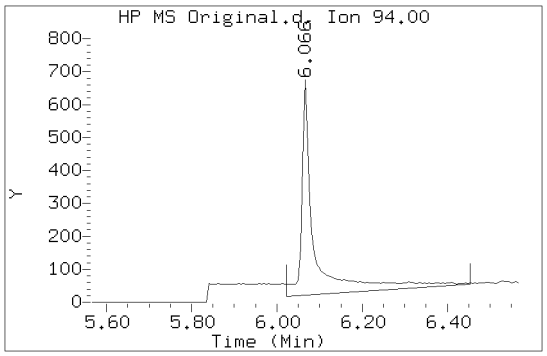
AFTER

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



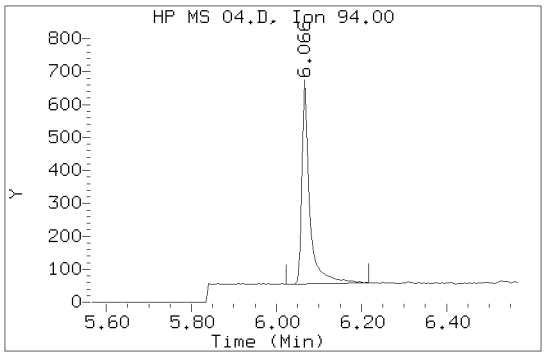
BEFORE

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



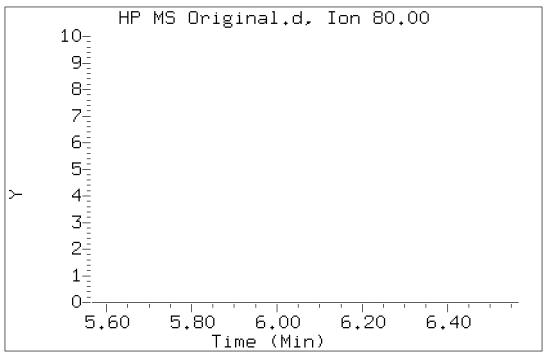
AFTER

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



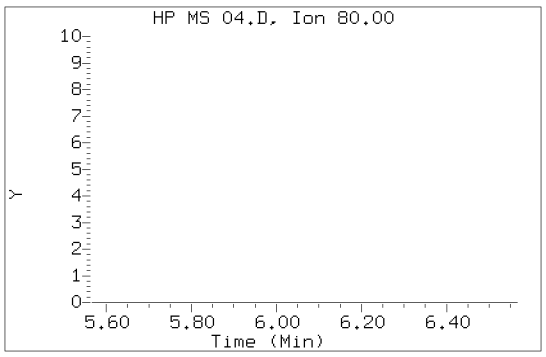
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

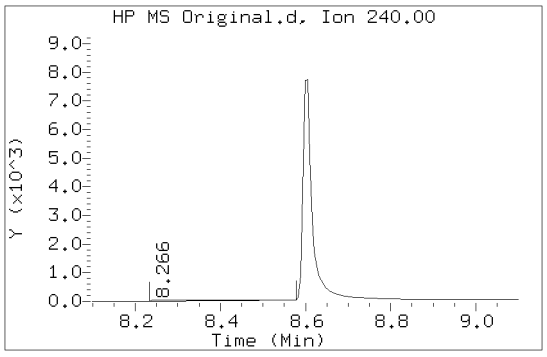


Chrysene-d12 (1719-03-5)

Reason Code:

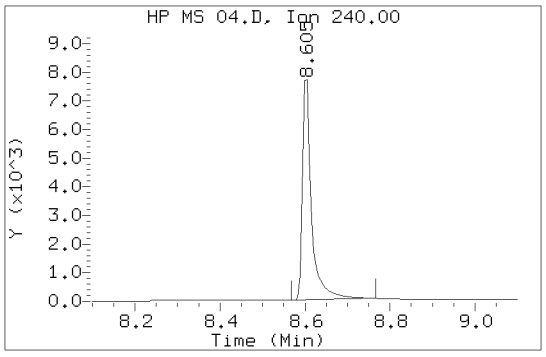
BEFORE

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

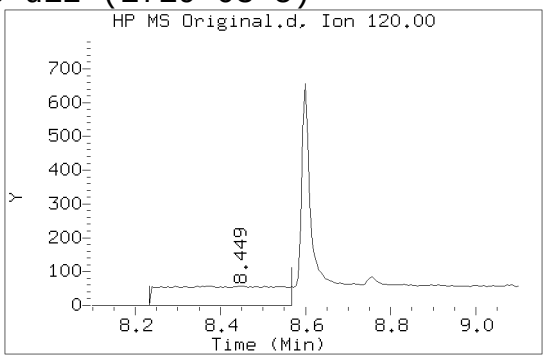


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

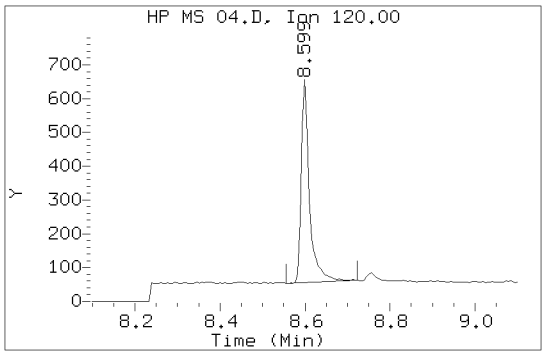
Chrysene-d12 (1719-03-5)

Reason Code:

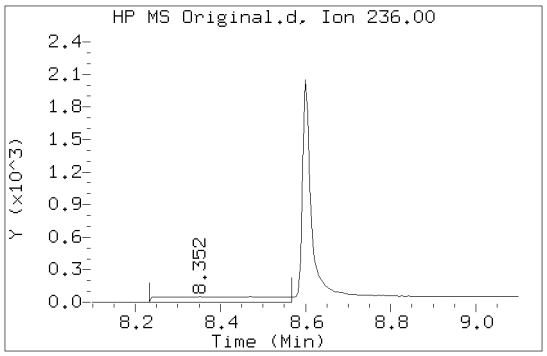
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



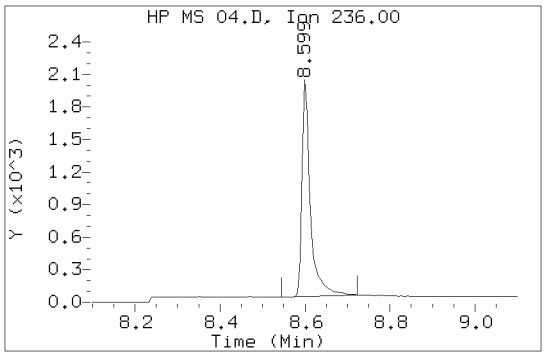
AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



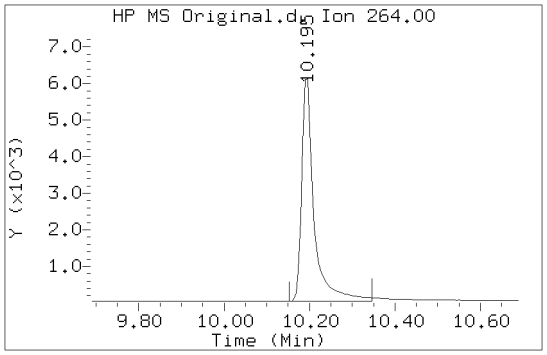
AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



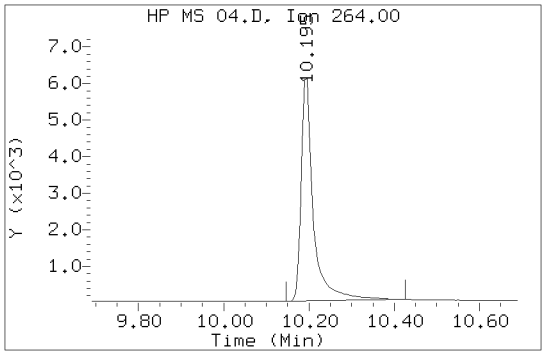
Perylene-d12 (1520-96-3)

Reason Code:

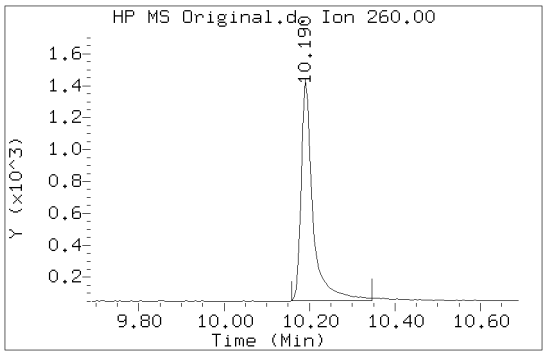
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



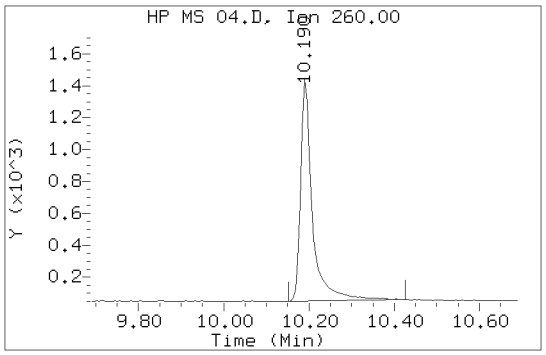
AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05

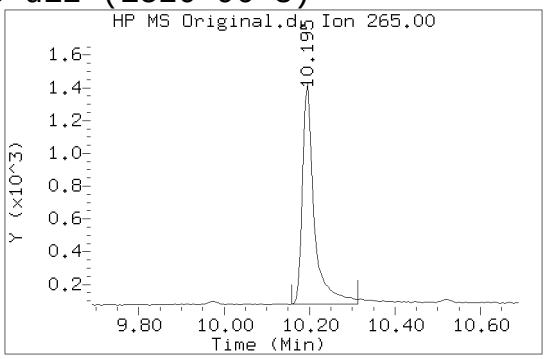


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

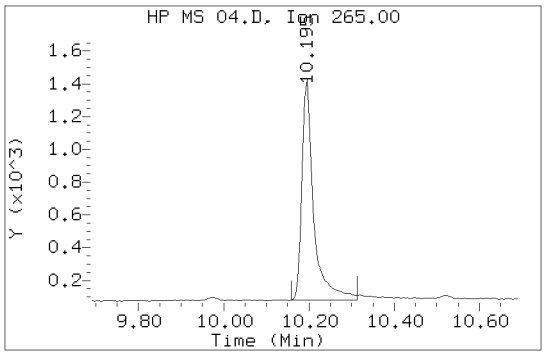
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



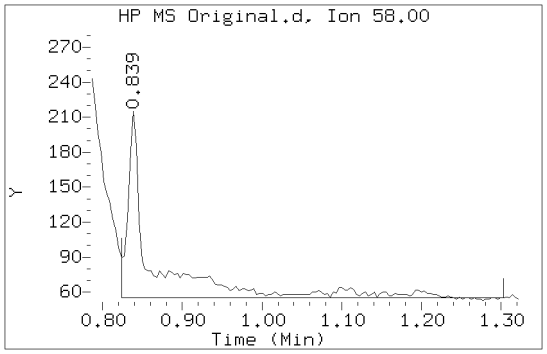
AFTER
MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05



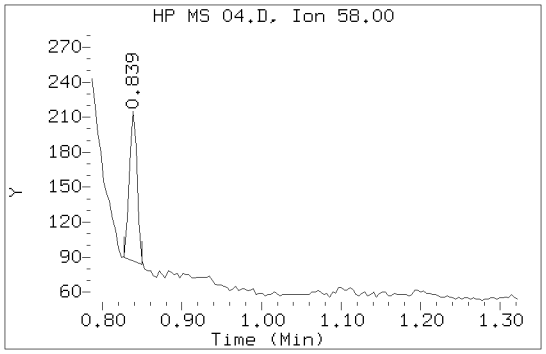
1,4-Dioxane ()

Reason Code:

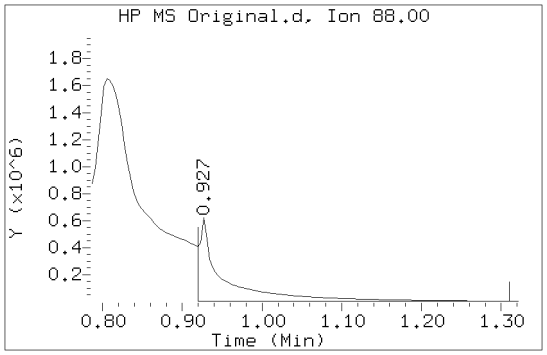
BEFORE
MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



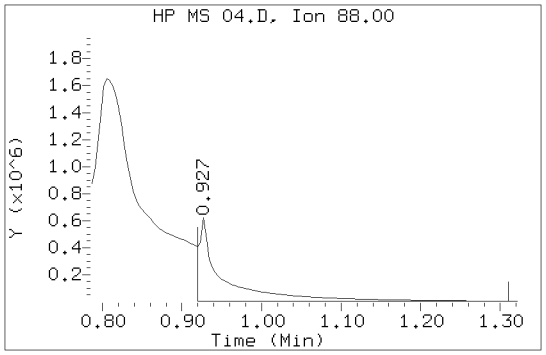
AFTER
MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



BEFORE
MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



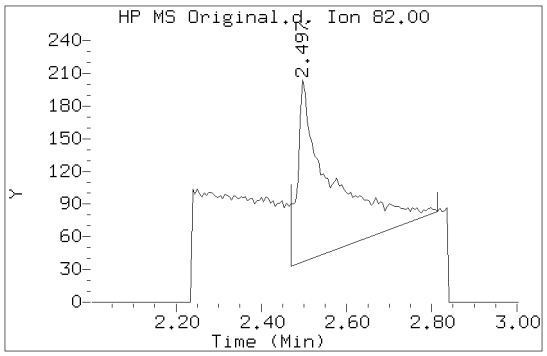
AFTER
MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05



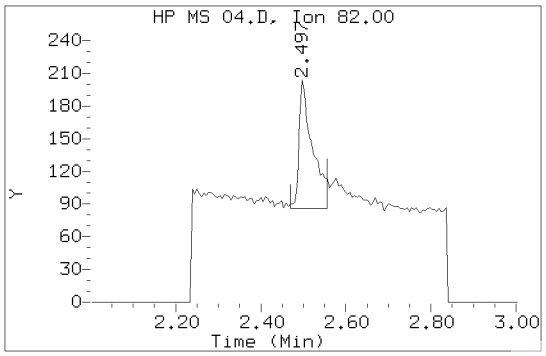
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05



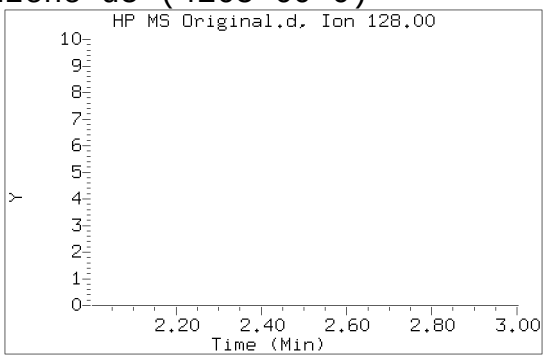
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

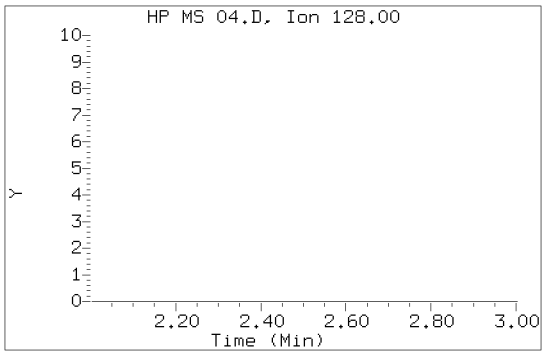
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



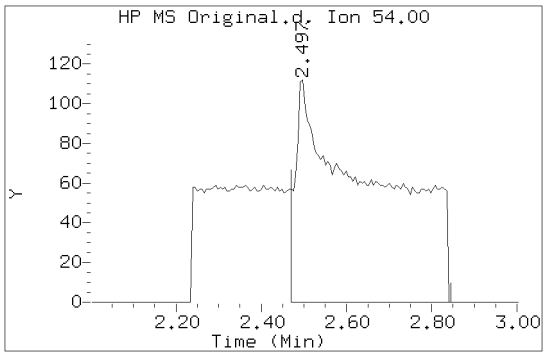
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



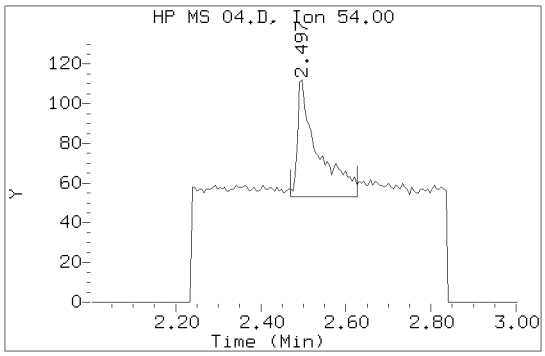
BEFORE

MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05

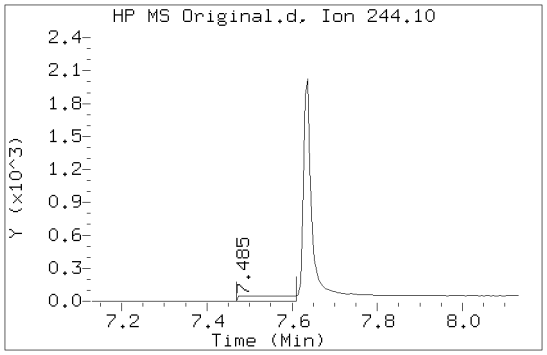


4-Terphenyl-d14 (1718-51-0)

Reason Code:

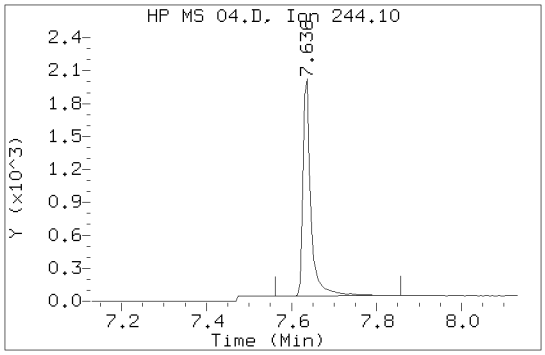
BEFORE

MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



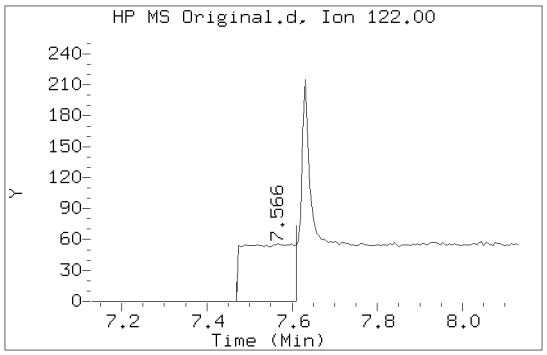
AFTER

MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



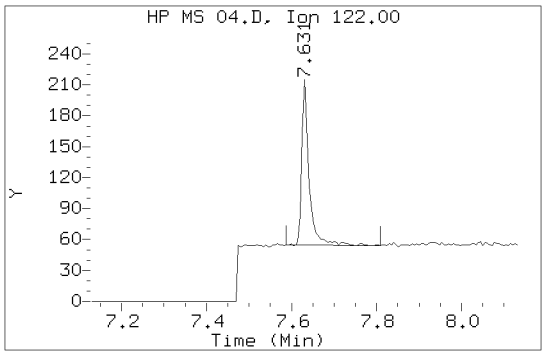
BEFORE

MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



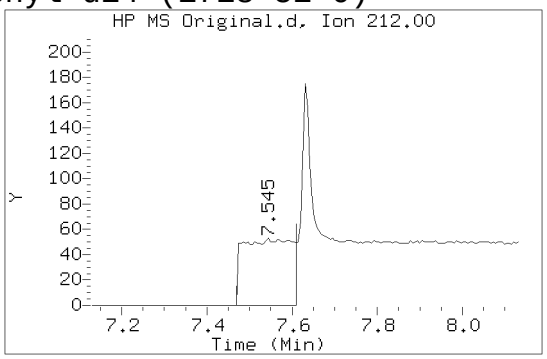
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

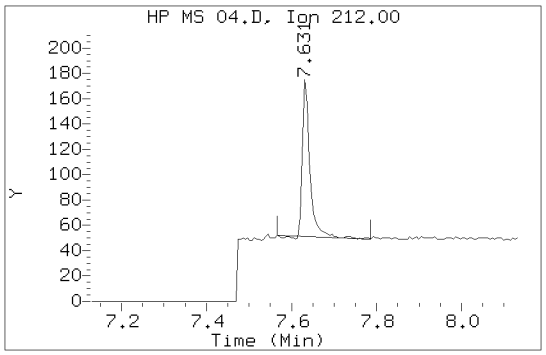
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

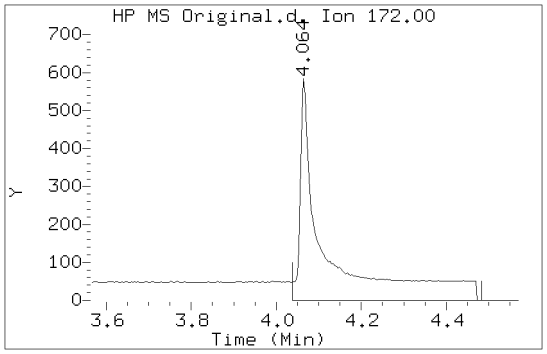


2-Fluorobiphenyl (321-60-8)

Reason Code:

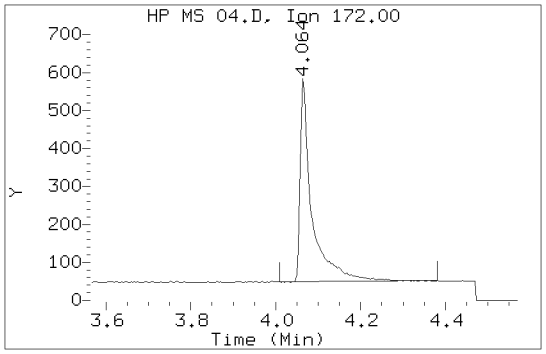
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



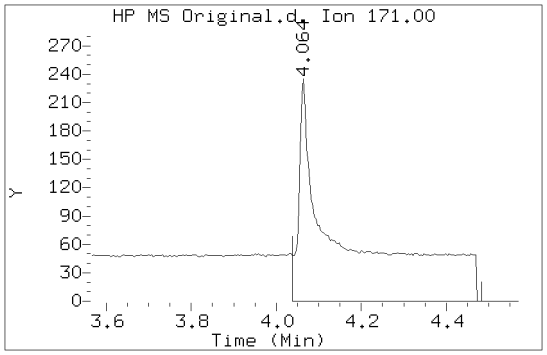
AFTER

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



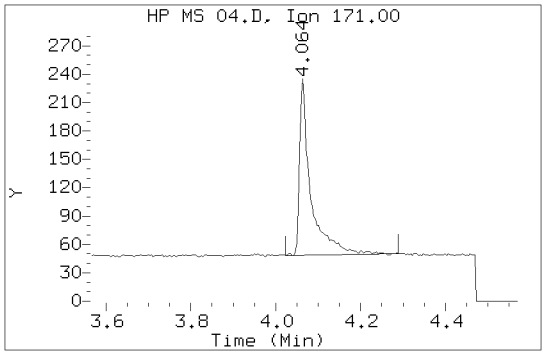
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

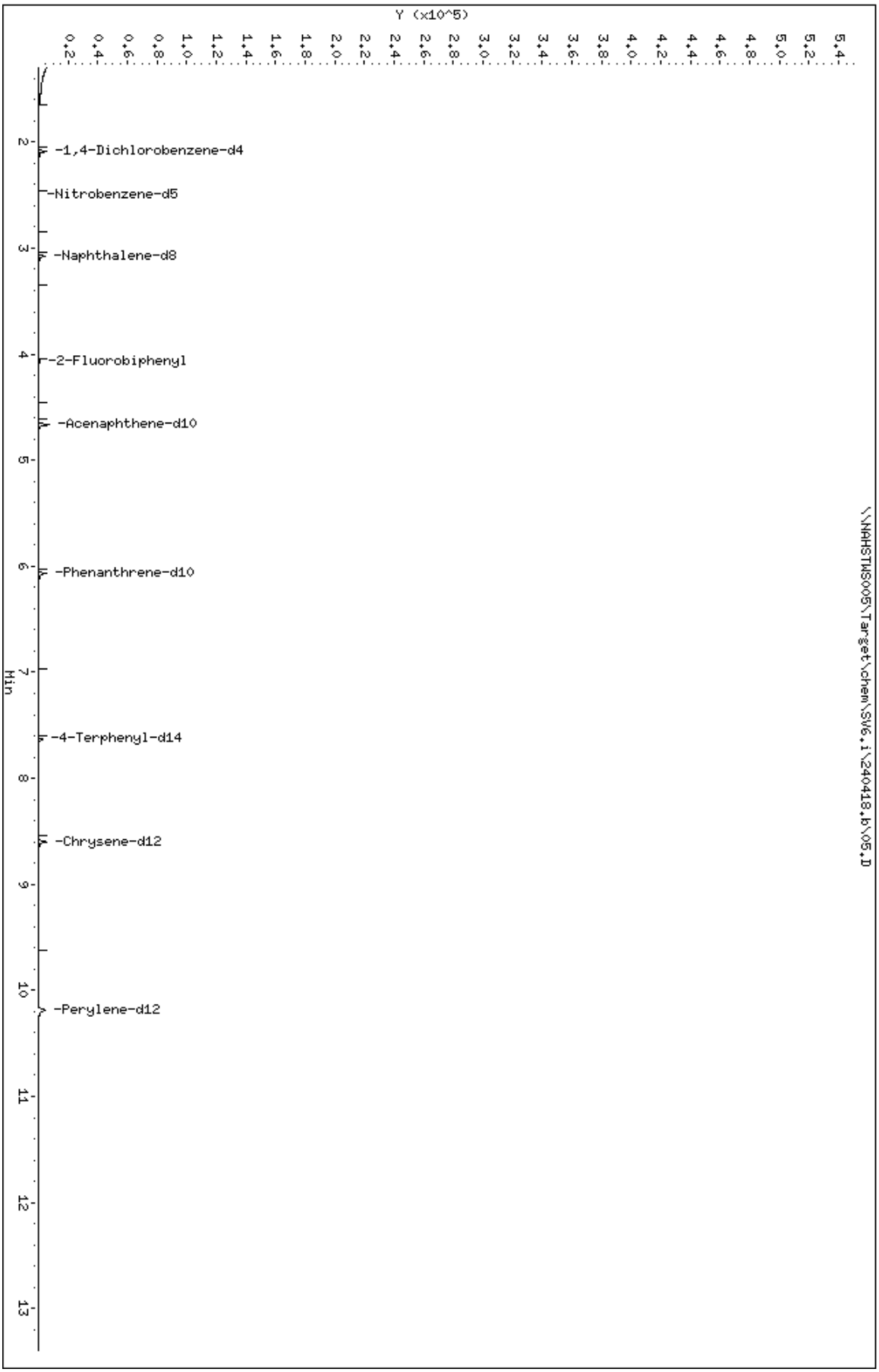
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Date : 18-APR-2024 13:07
Client ID:
Sample Info: 14DX-0.03
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

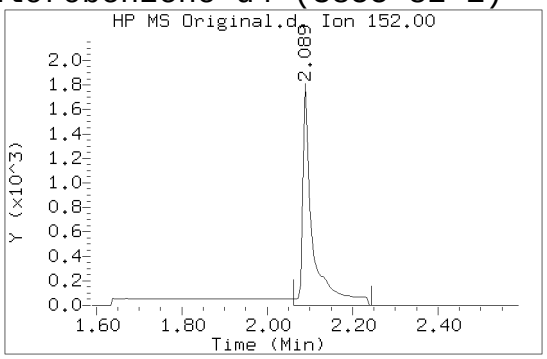


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

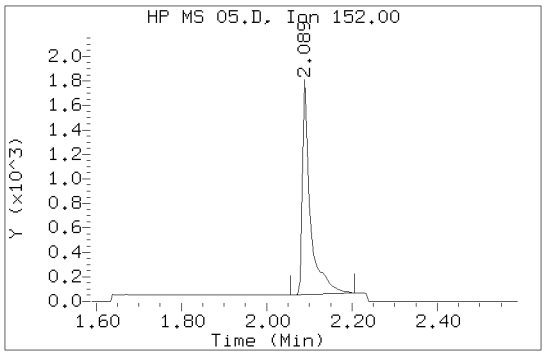
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

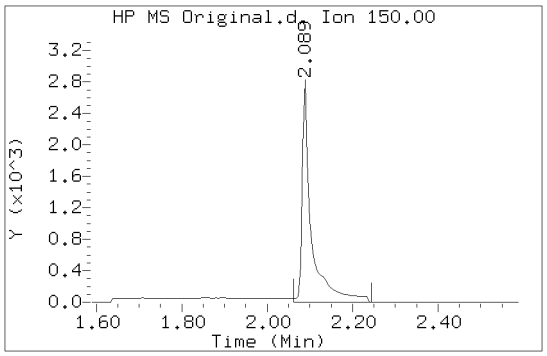
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



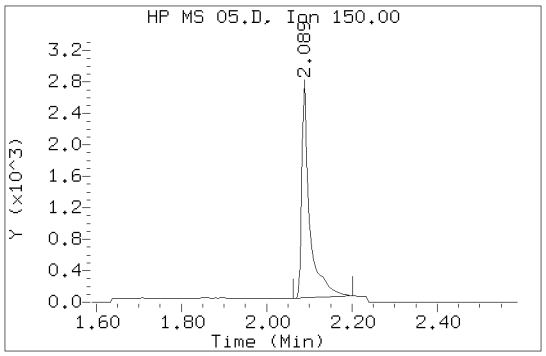
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



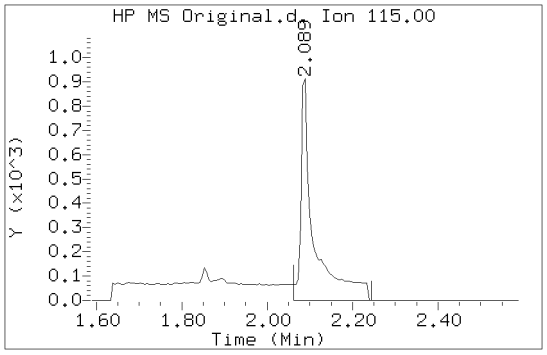
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



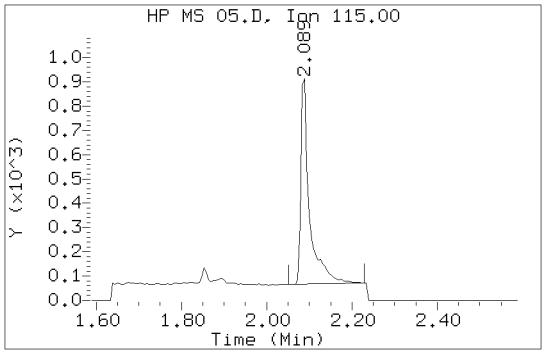
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



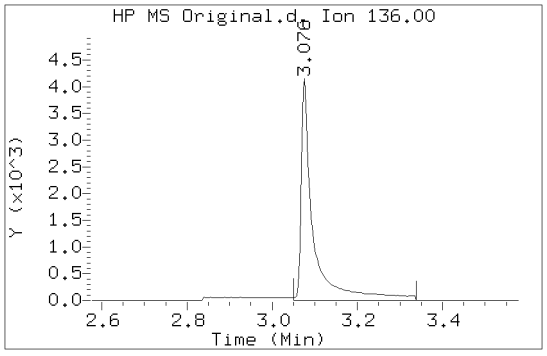
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



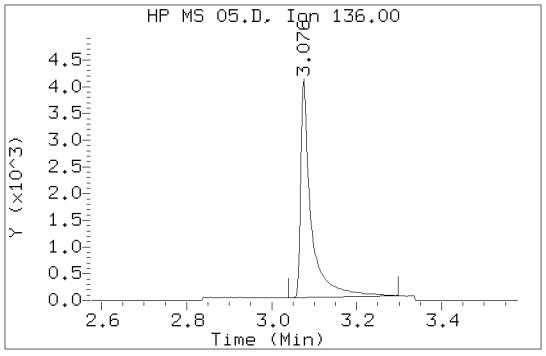
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05



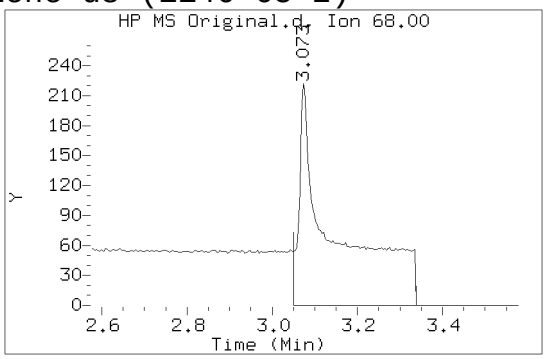
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

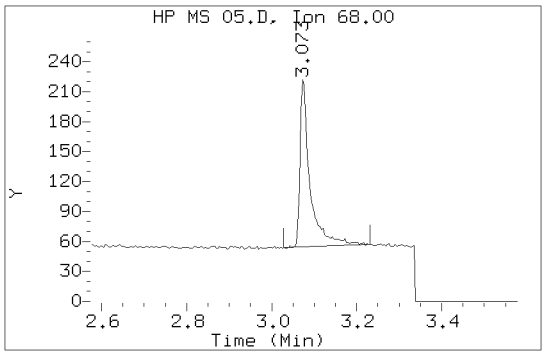
BEFORE

MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05

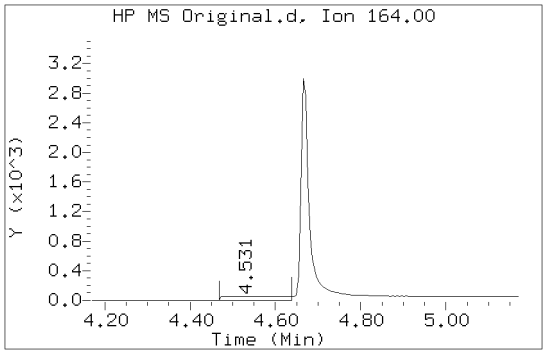


Acenaphthene-d10 (15067-26-2)

Reason Code:

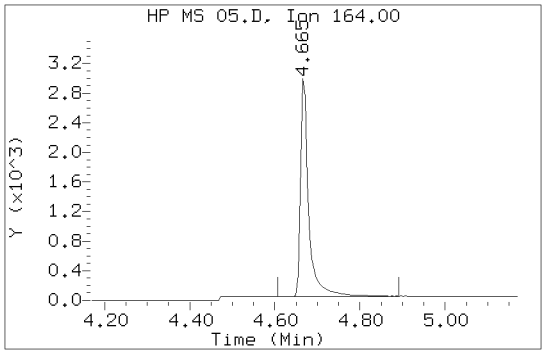
BEFORE

MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



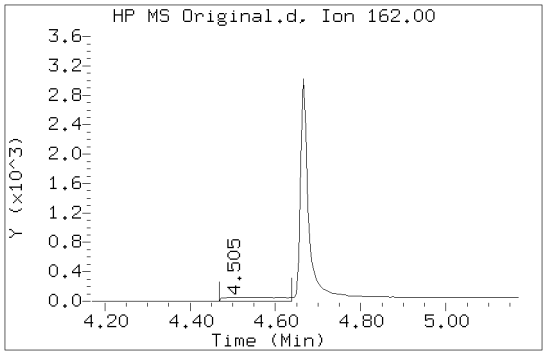
AFTER

MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



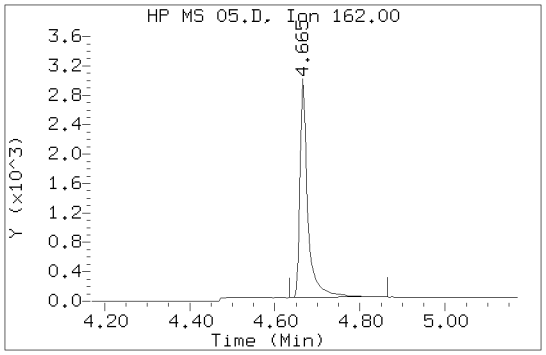
BEFORE

MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



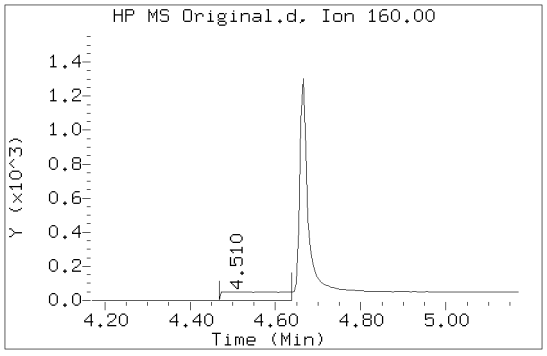
AFTER

MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



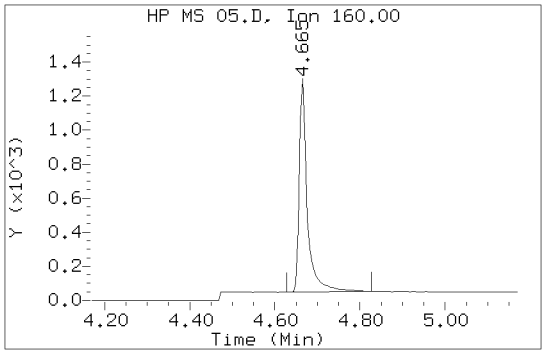
BEFORE

MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



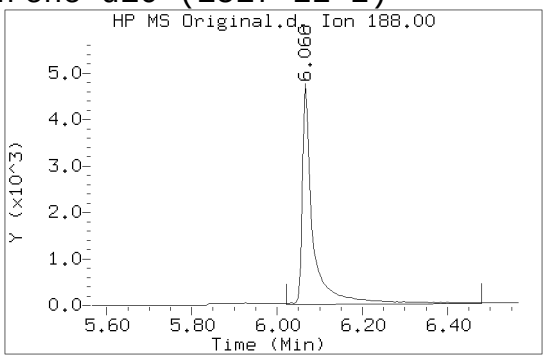
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Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

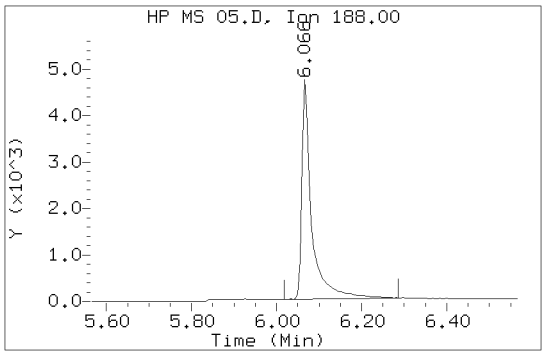
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



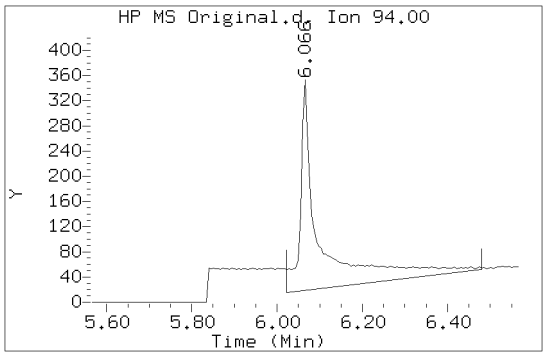
AFTER

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



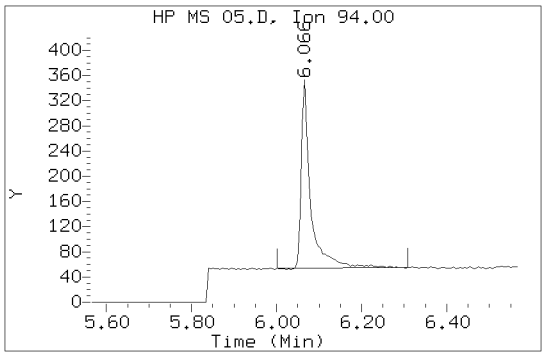
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



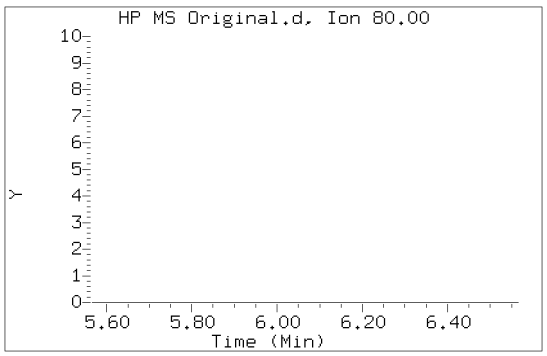
AFTER

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



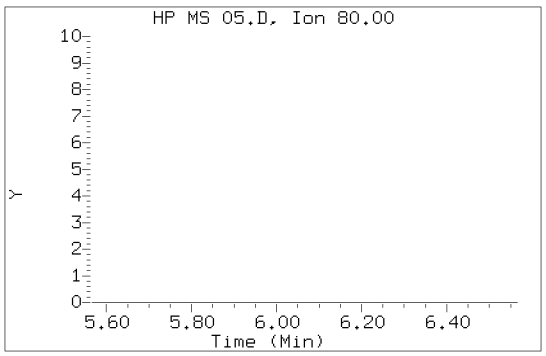
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

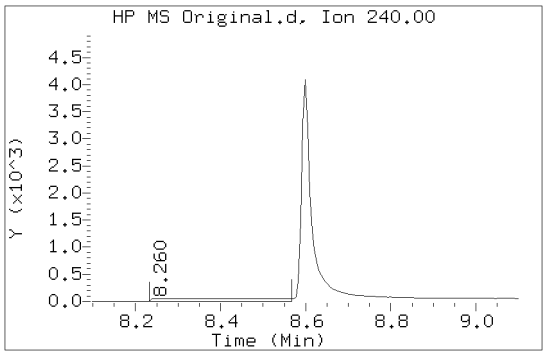


Chrysene-d12 (1719-03-5)

Reason Code:

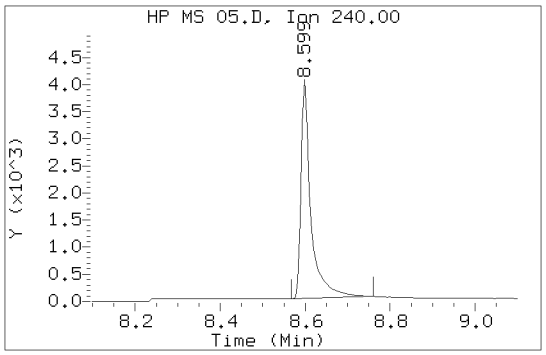
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



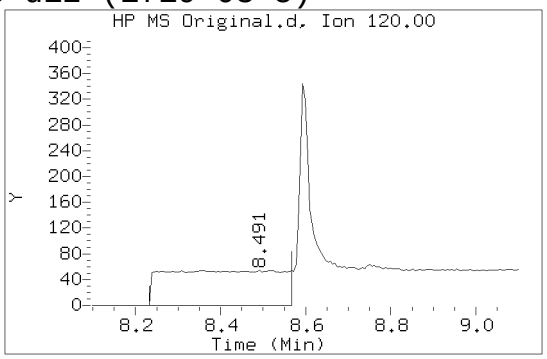
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

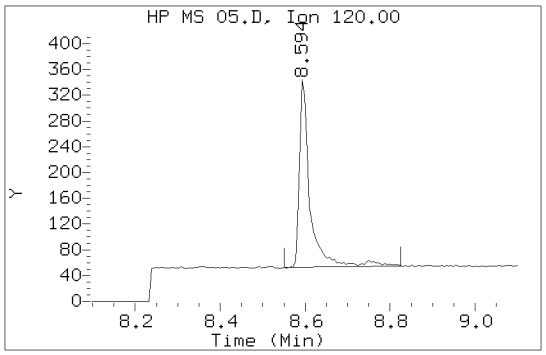
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



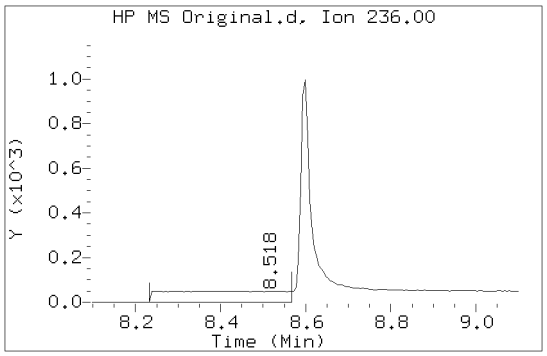
AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



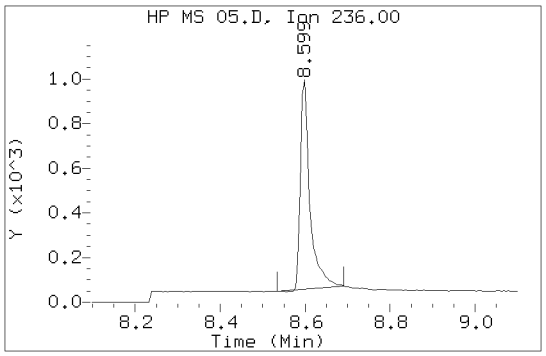
BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

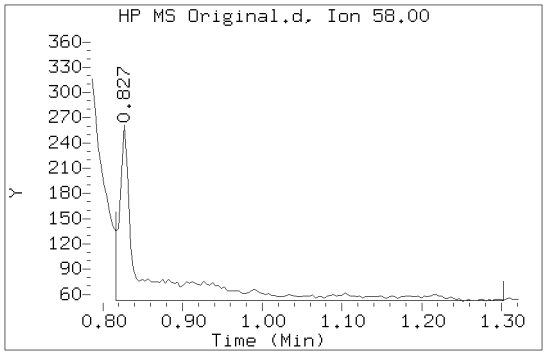


1,4-Dioxane ()

Reason Code:

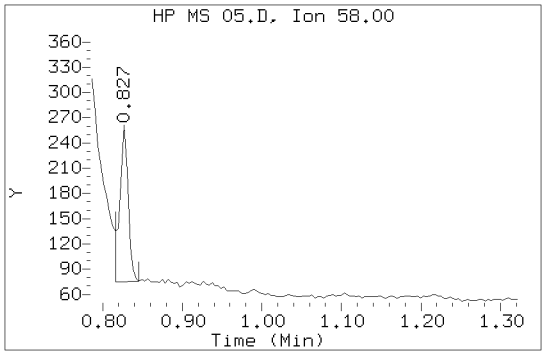
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



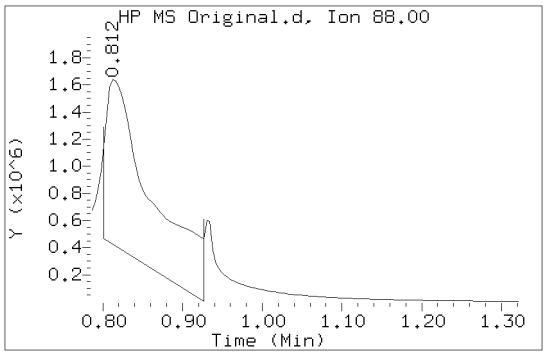
AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



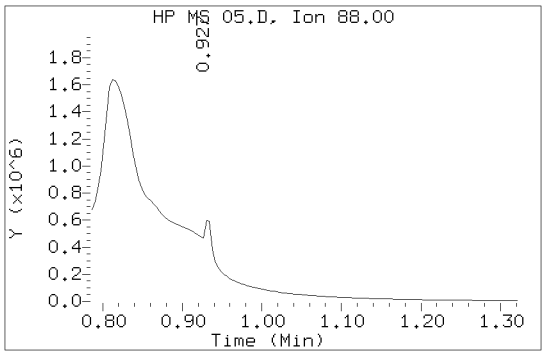
BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

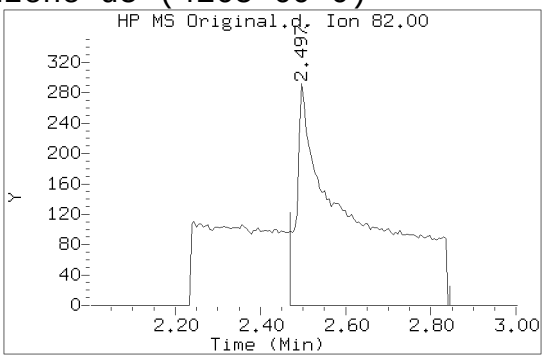


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Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

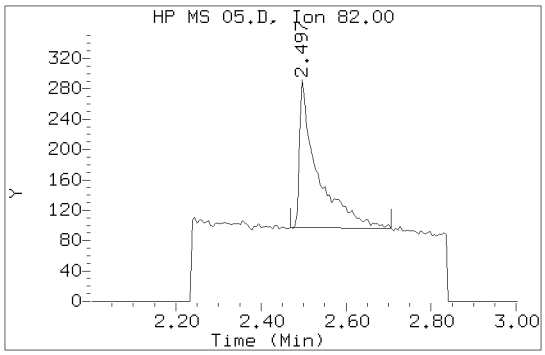
Nitrobenzene-d5 (4165-60-0)

Reason Code:

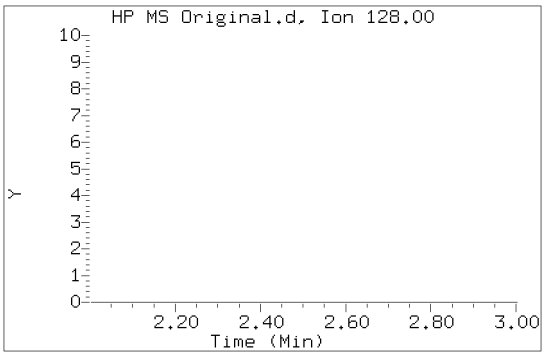
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



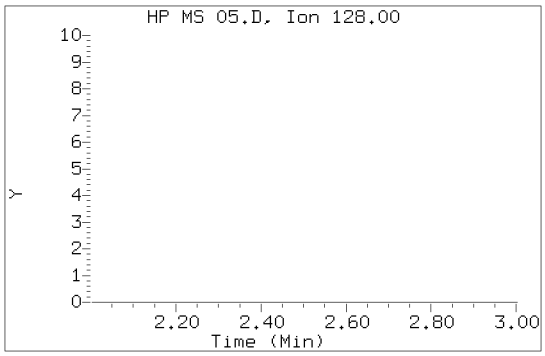
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



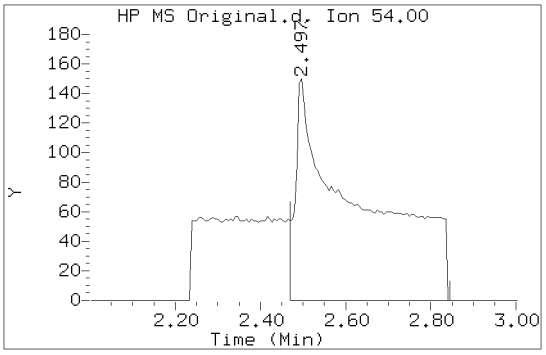
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



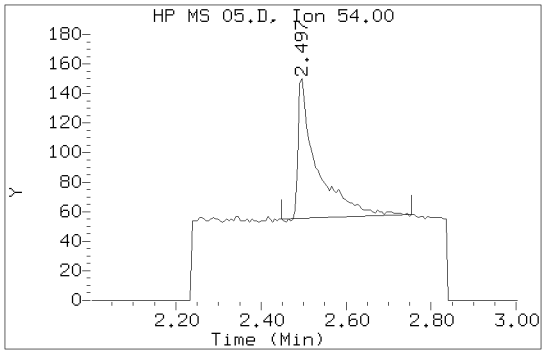
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



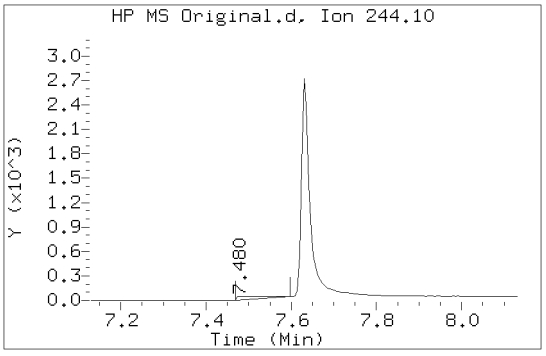
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



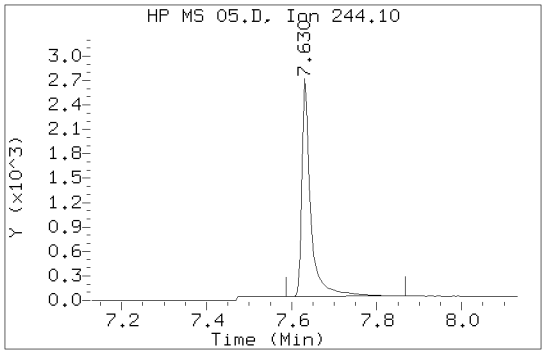
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05



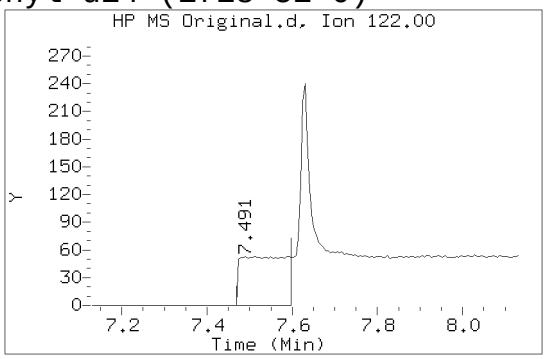
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

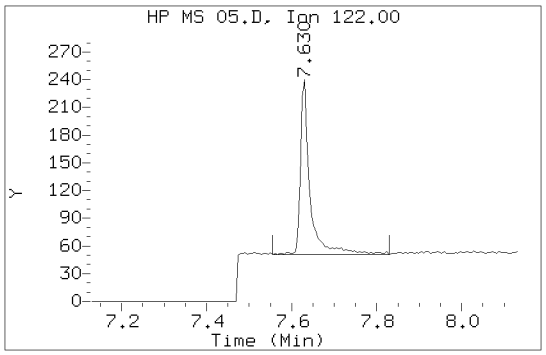
BEFORE

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



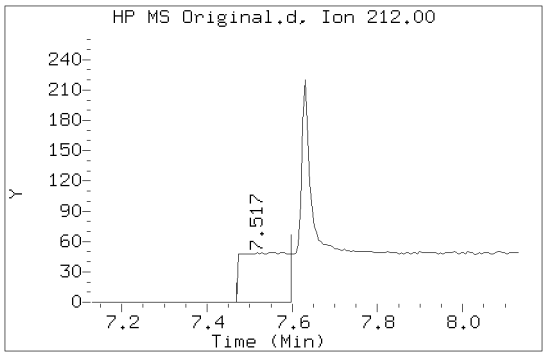
AFTER

MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



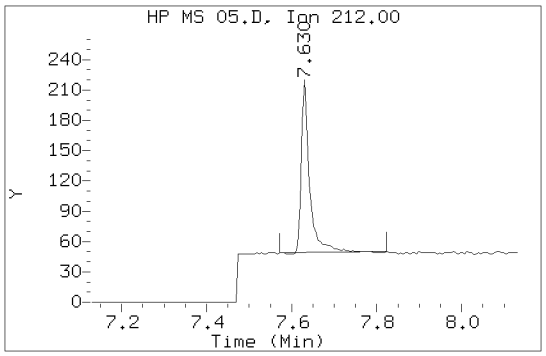
BEFORE

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05

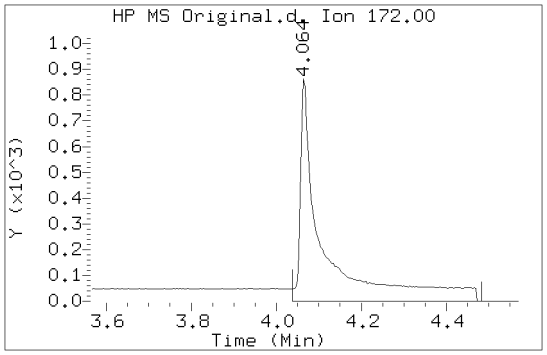


2-Fluorobiphenyl (321-60-8)

Reason Code:

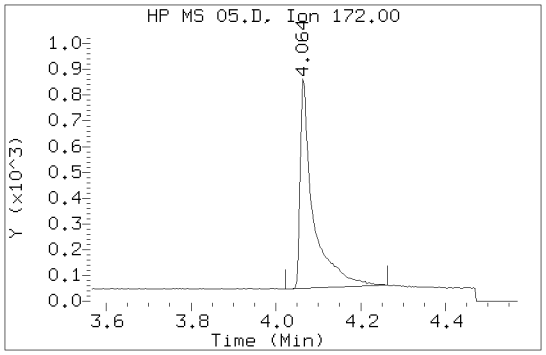
BEFORE

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



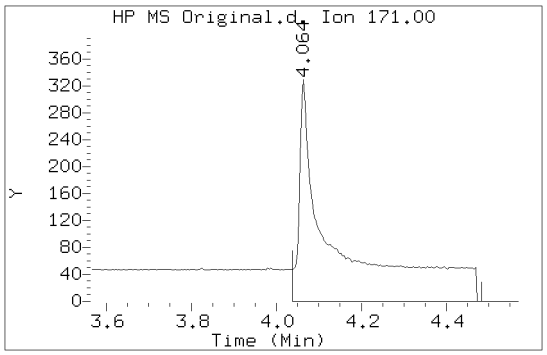
AFTER

MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



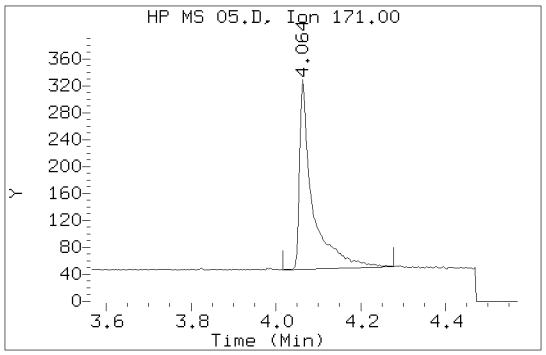
BEFORE

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

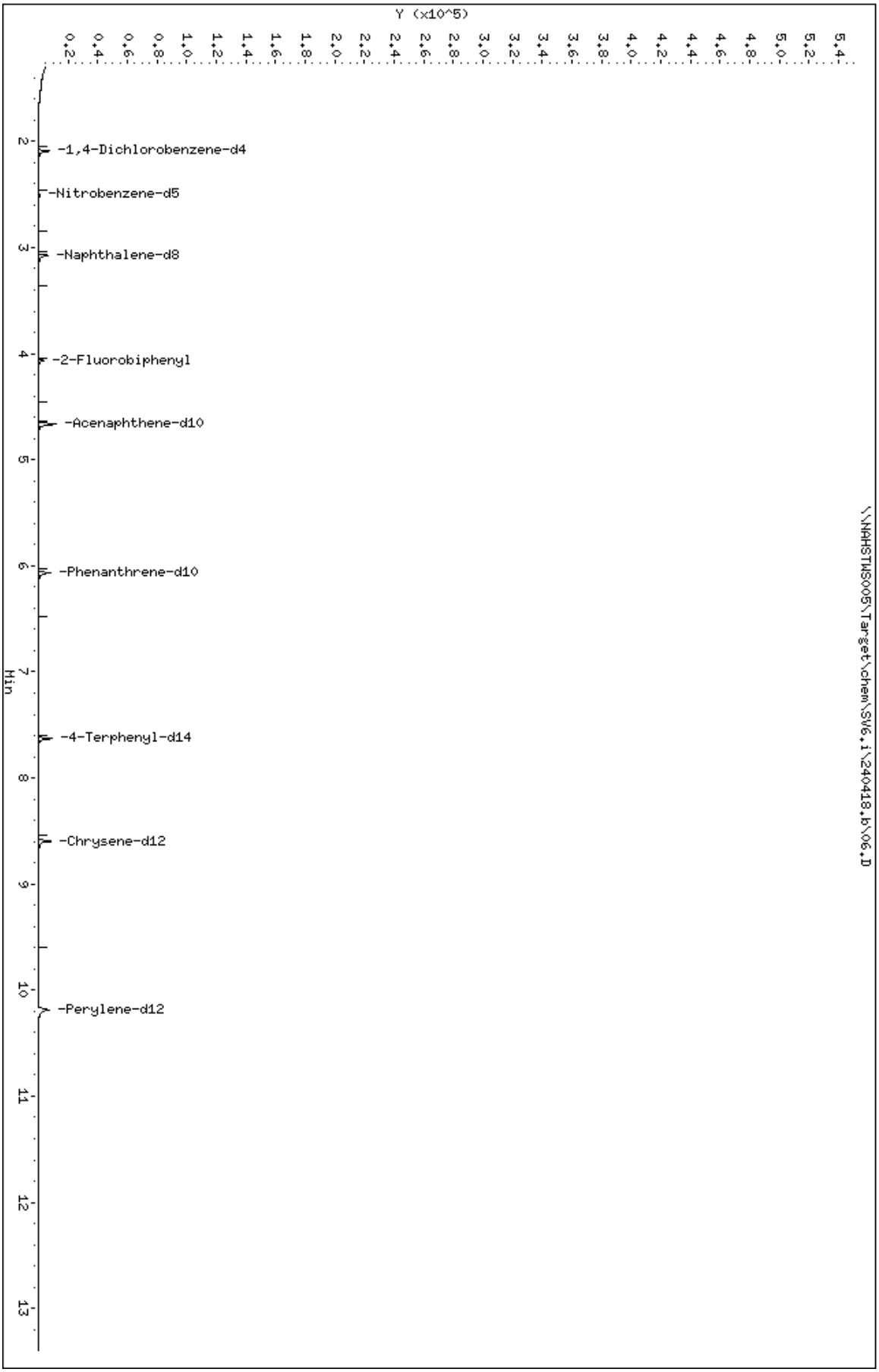
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021(M)

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Date : 18-APR-2024 13:25
Client ID:
Sample Info: 14DX-0.05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

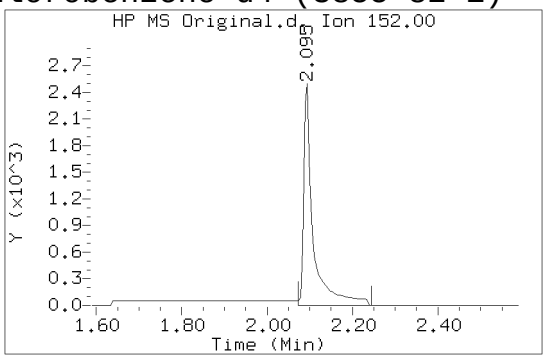
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

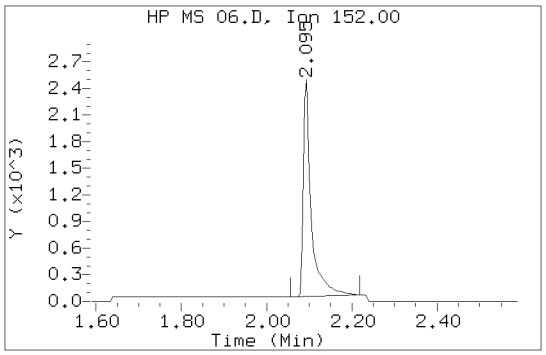
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

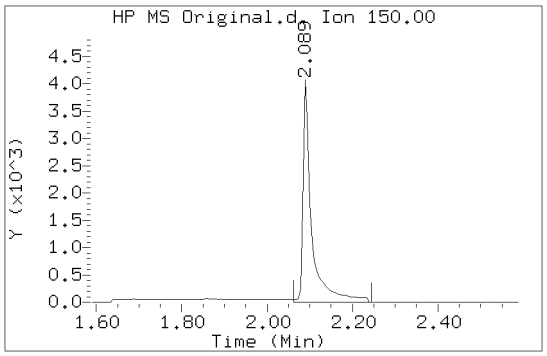
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



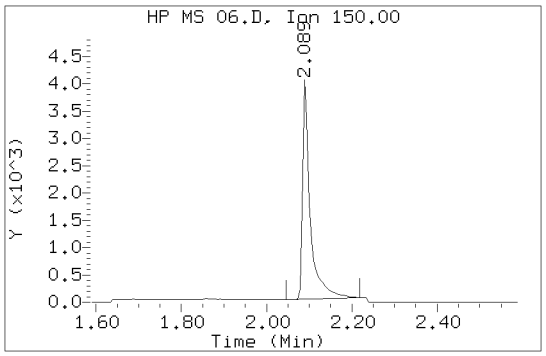
AFTER
MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



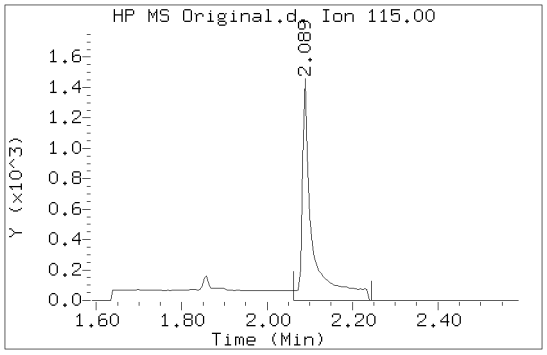
BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



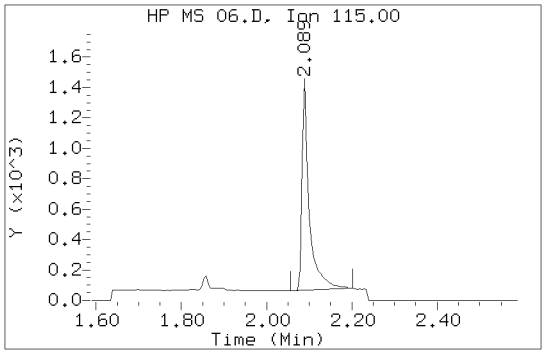
AFTER
MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05



BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



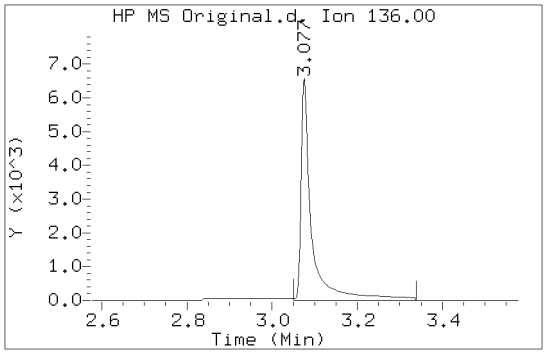
AFTER
MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05



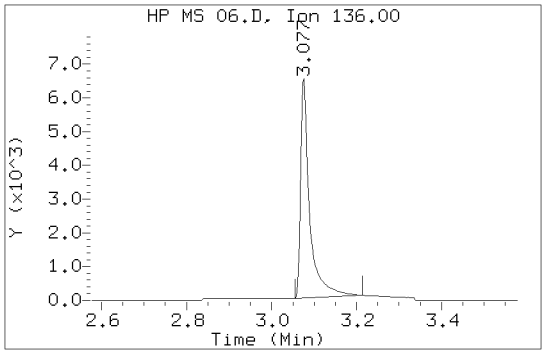
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05



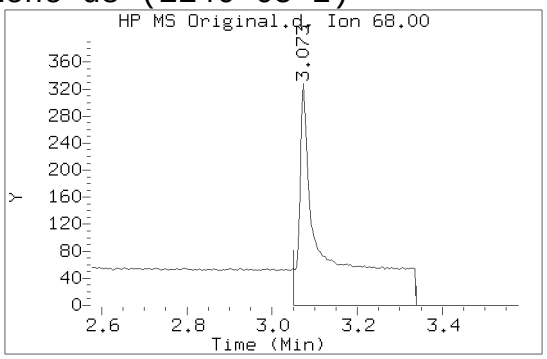
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

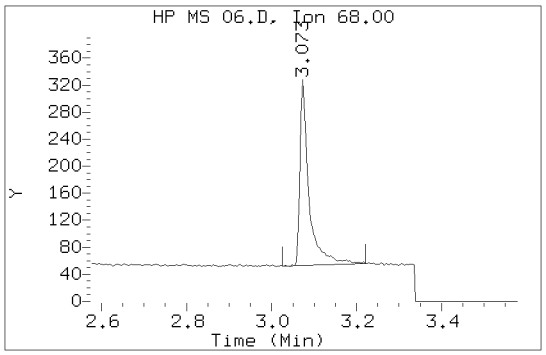
BEFORE

MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05

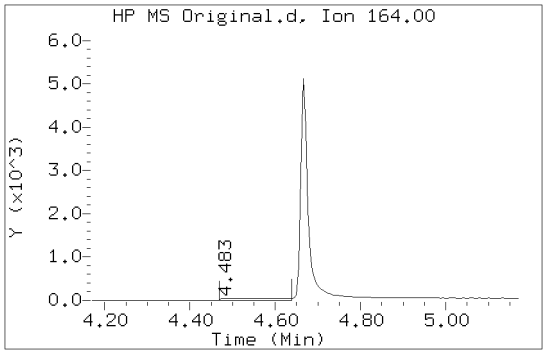


Acenaphthene-d10 (15067-26-2)

Reason Code:

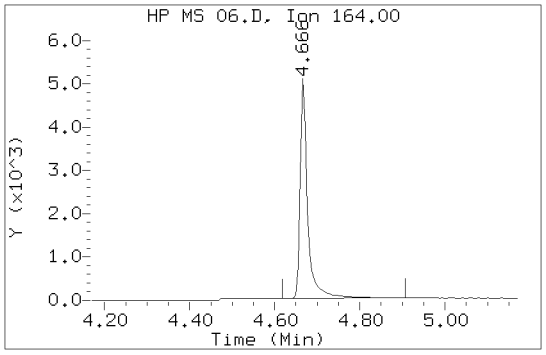
BEFORE

MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



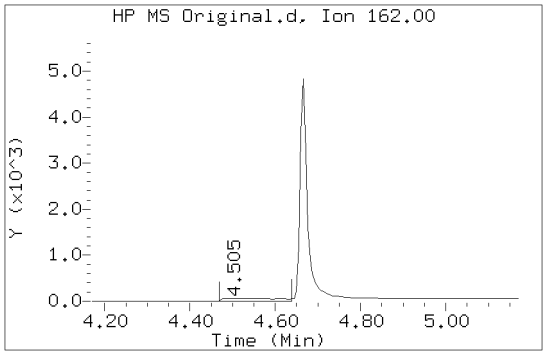
AFTER

MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



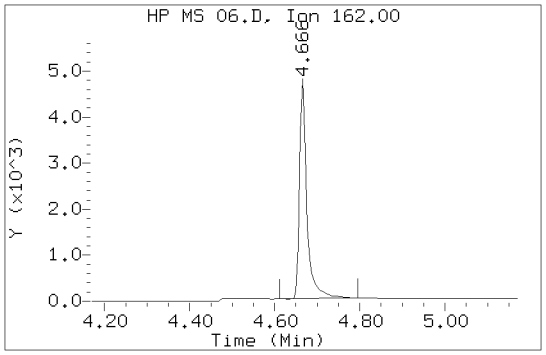
BEFORE

MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



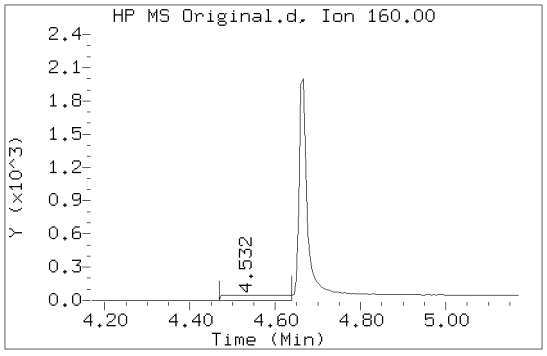
AFTER

MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



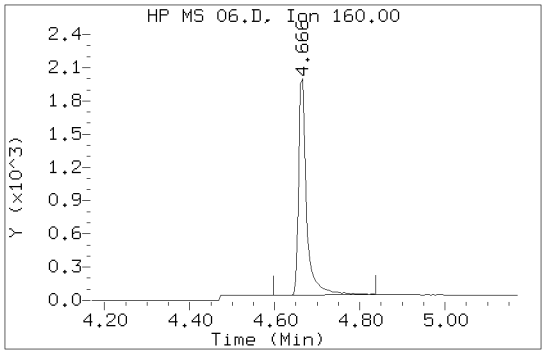
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



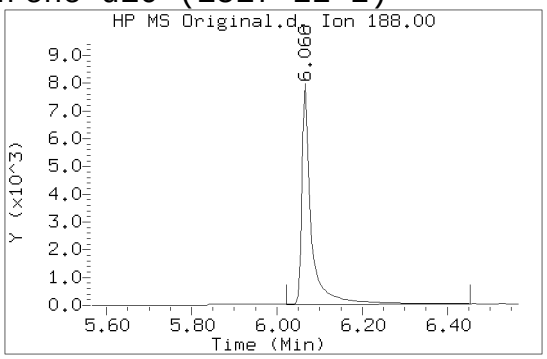
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

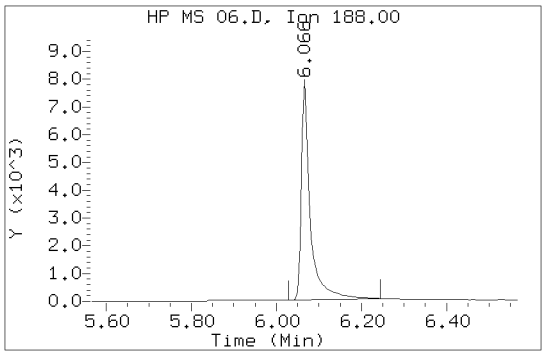
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



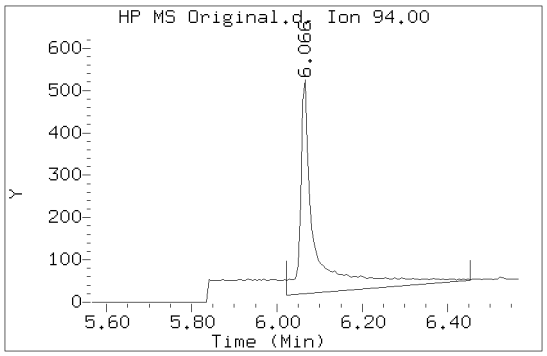
AFTER

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



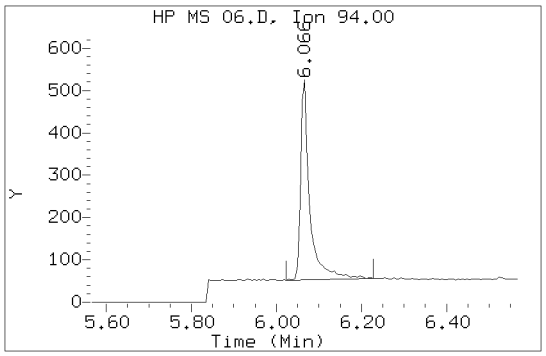
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



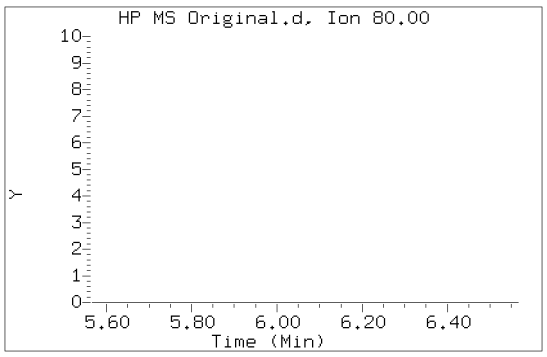
AFTER

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



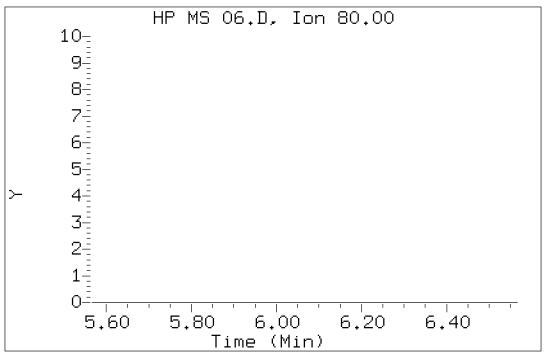
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

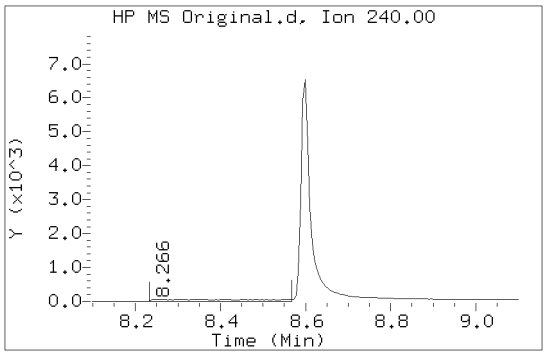


Chrysene-d12 (1719-03-5)

Reason Code:

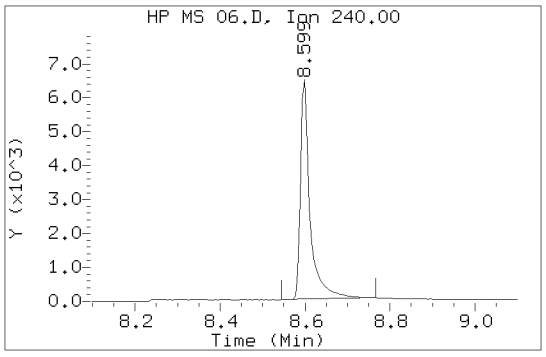
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05

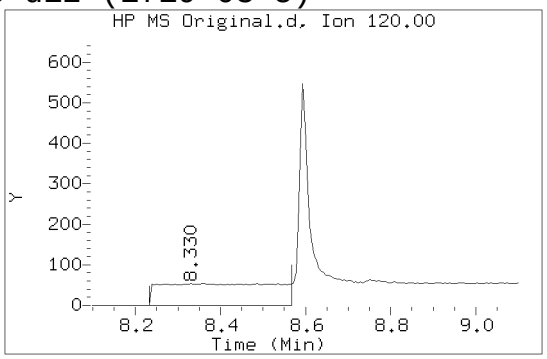


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

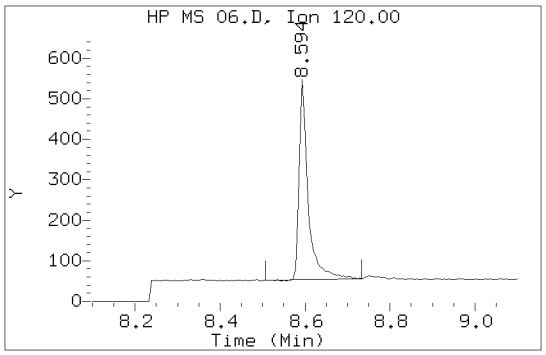
Chrysene-d12 (1719-03-5)

Reason Code:

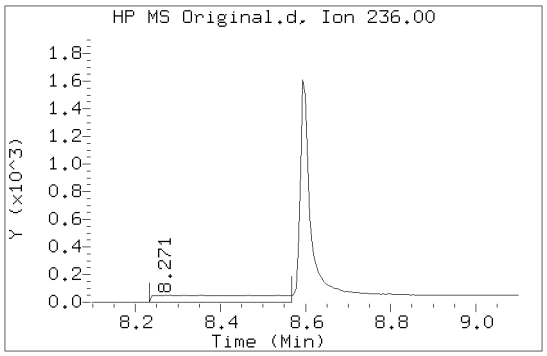
BEFORE
MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



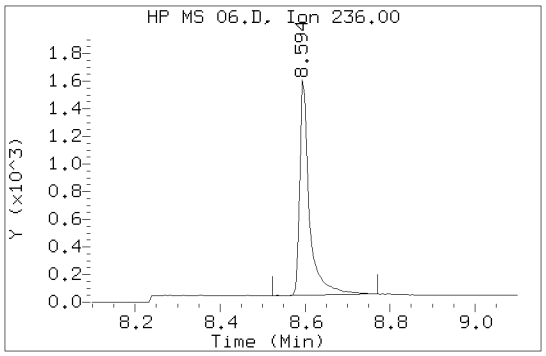
AFTER
MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



BEFORE
MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



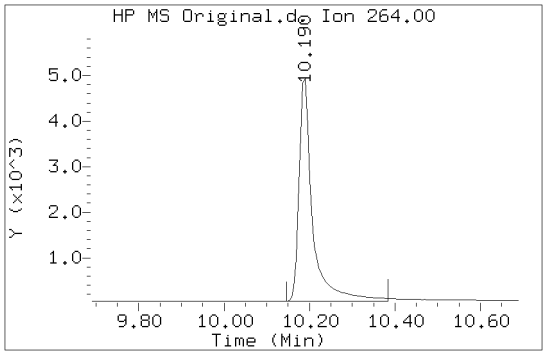
AFTER
MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05



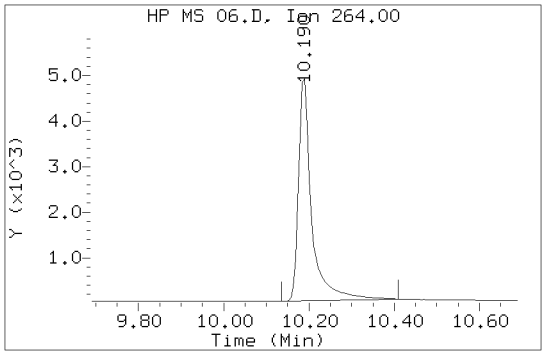
Perylene-d12 (1520-96-3)

Reason Code:

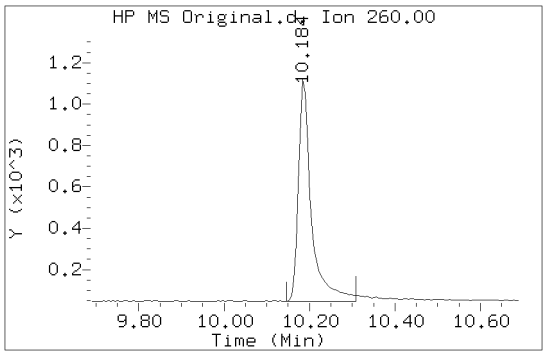
BEFORE
MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



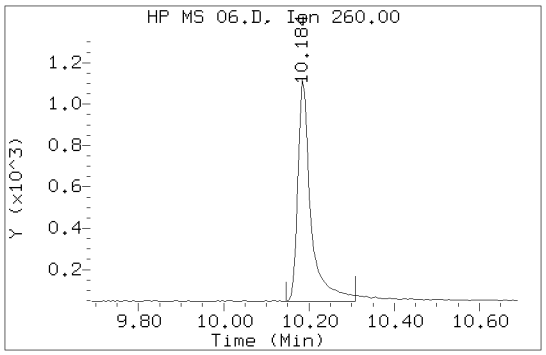
AFTER
MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



BEFORE
MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



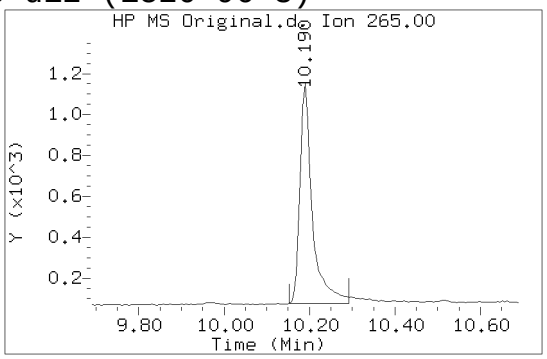
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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

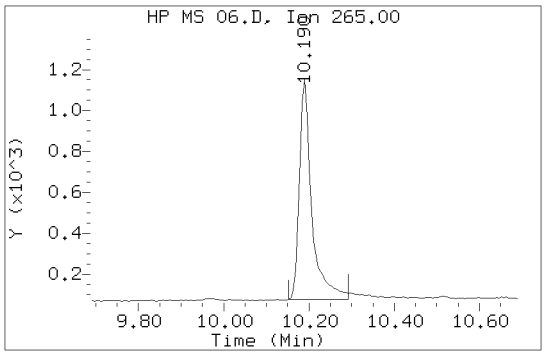
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

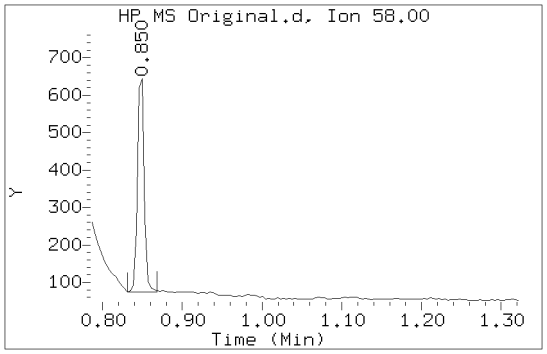


1,4-Dioxane ()

Reason Code:

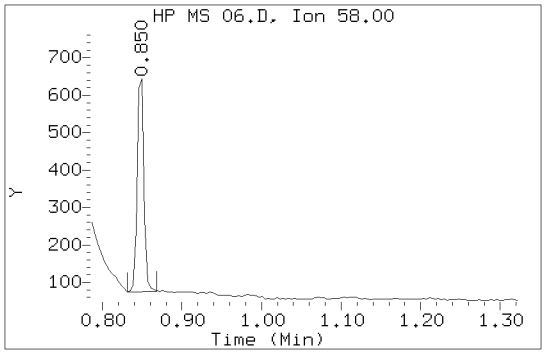
BEFORE

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AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



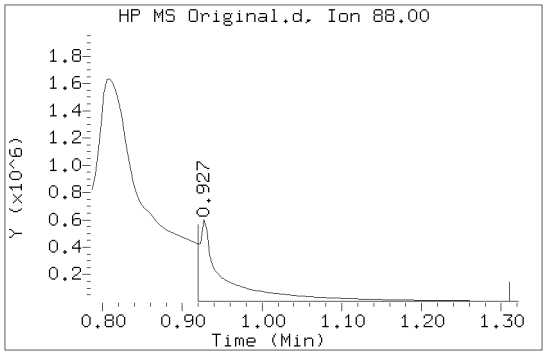
AFTER

MASS
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AREA
339
HEIGHT
568
28-May-2024
13:05



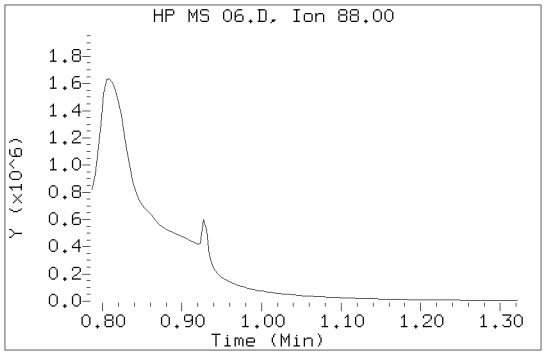
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
28-May-2024
13:05

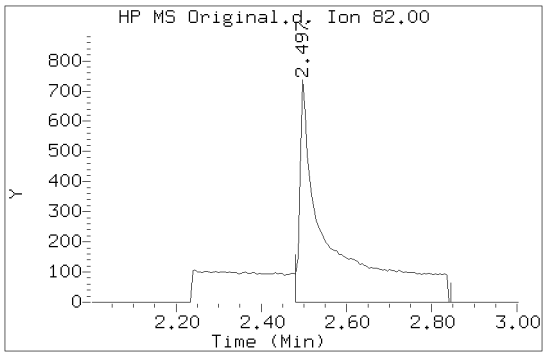


Nitrobenzene-d5 (4165-60-0)

Reason Code:

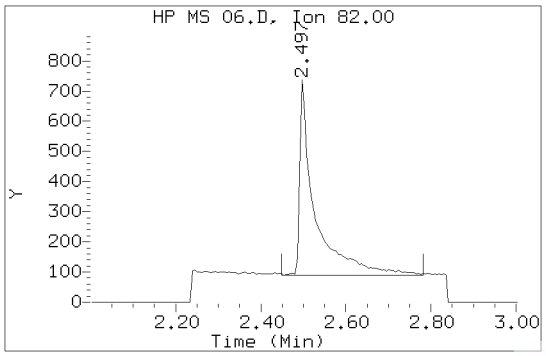
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05

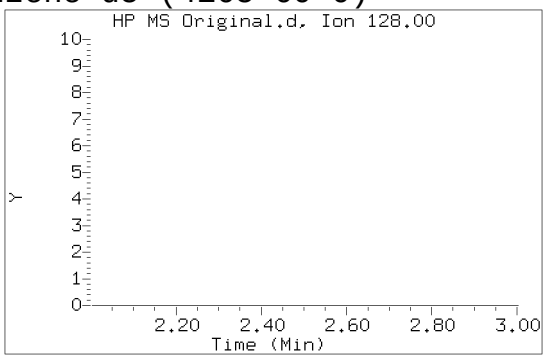


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

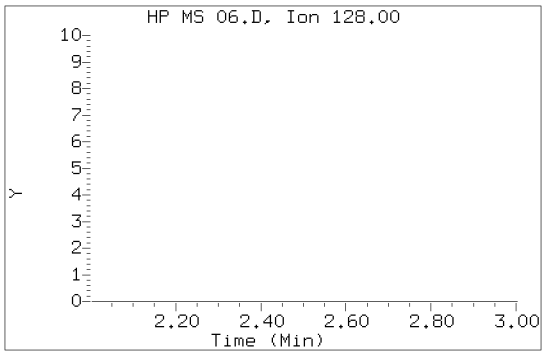
Nitrobenzene-d5 (4165-60-0)

Reason Code:

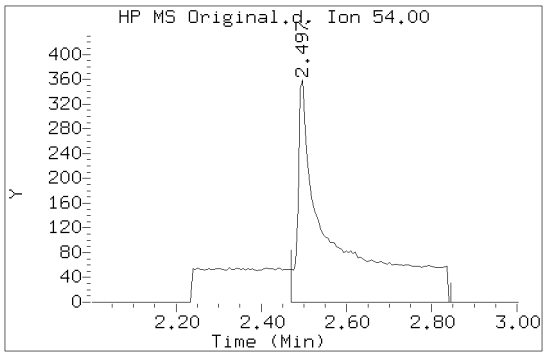
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MASS
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AREA
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HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



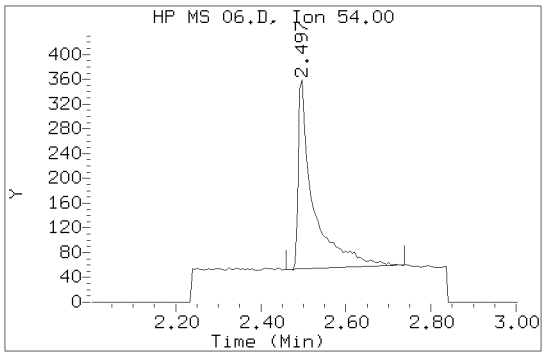
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



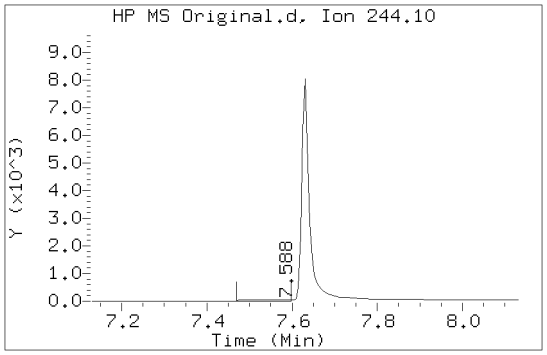
AFTER
MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05



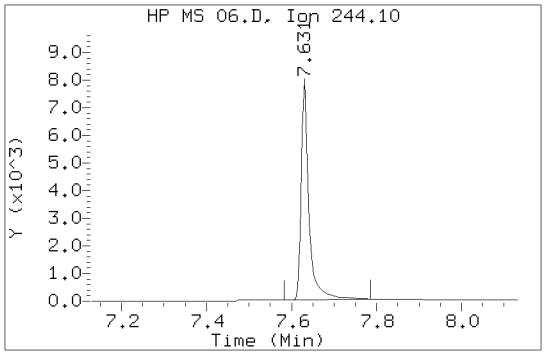
4-Terphenyl-d14 (1718-51-0)

Reason Code:

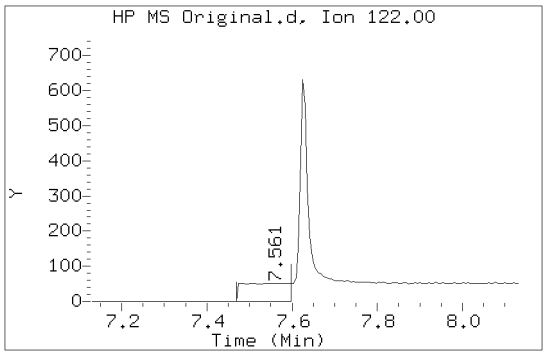
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



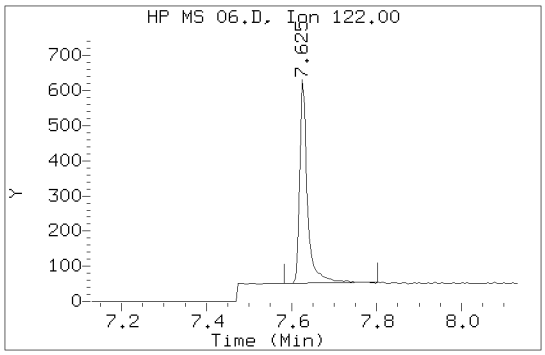
AFTER
MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



BEFORE
MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



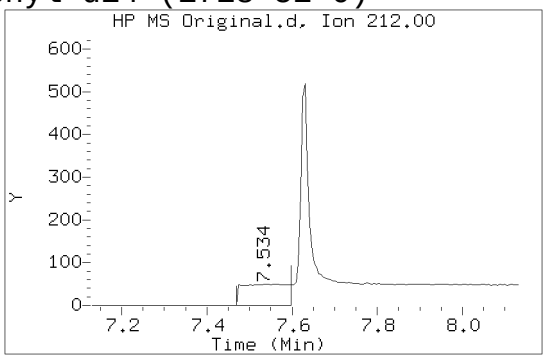
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

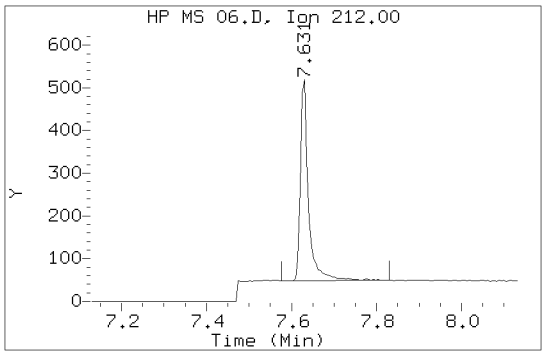
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

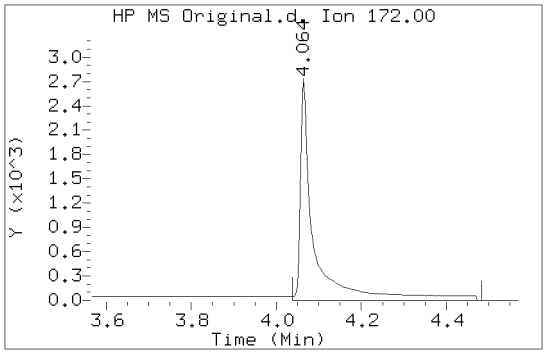


2-Fluorobiphenyl (321-60-8)

Reason Code:

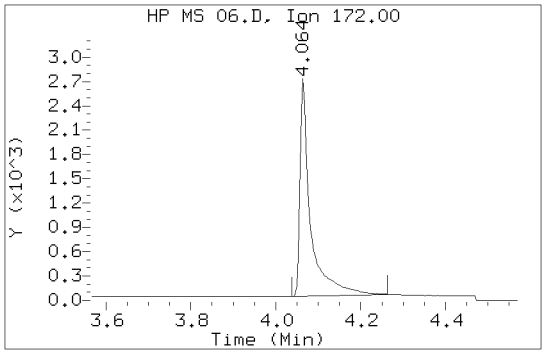
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



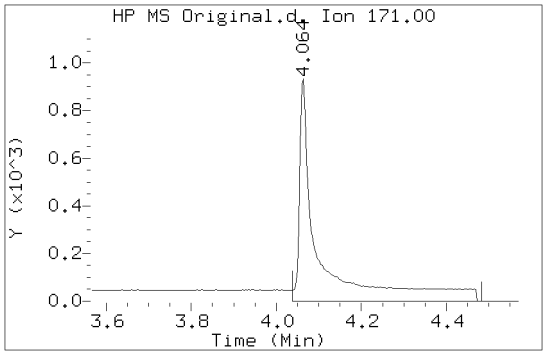
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



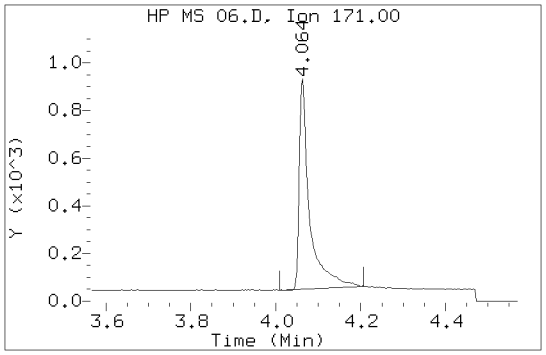
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

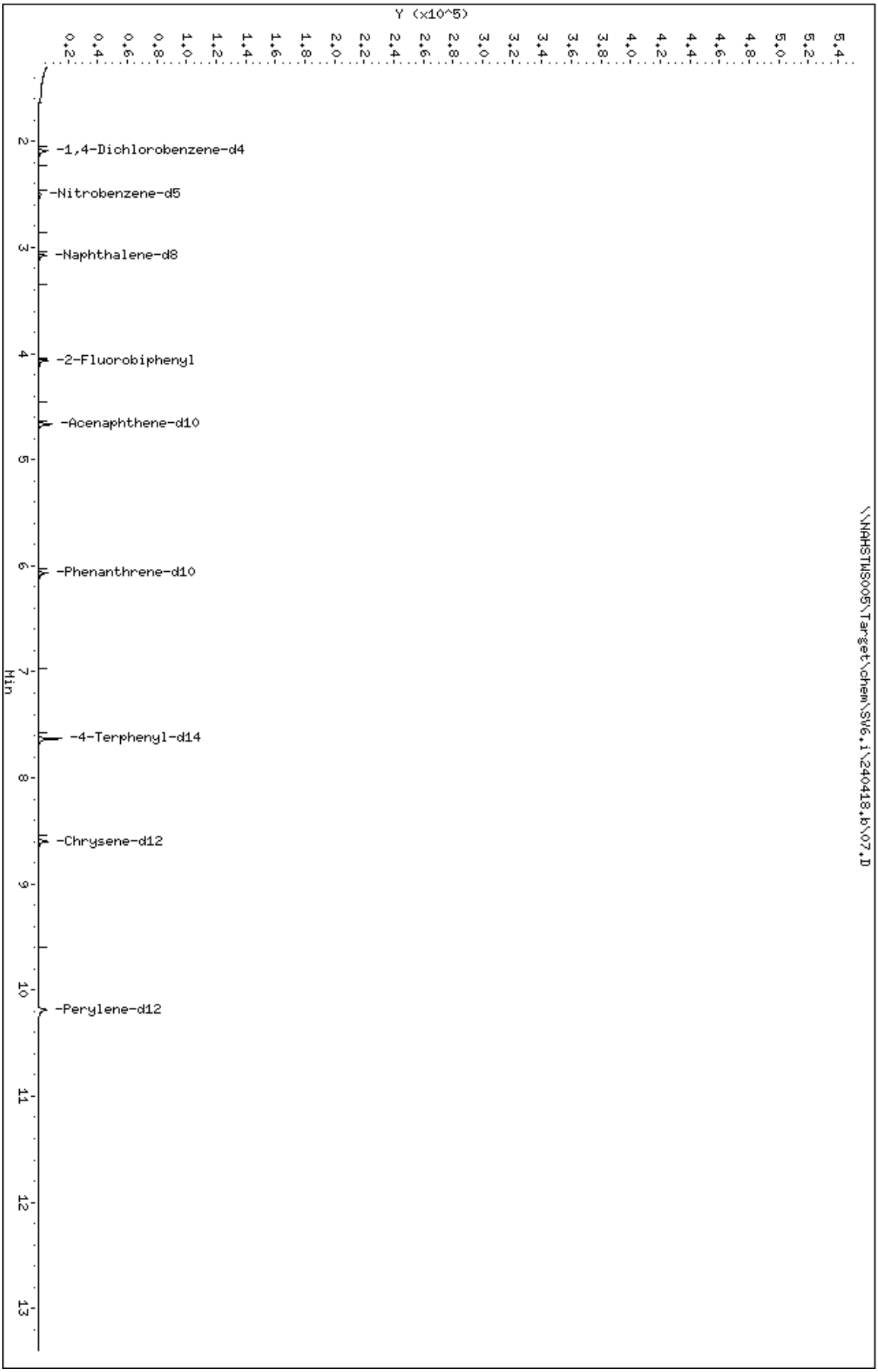
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Date : 18-APR-2024 13:42
Client ID:
Sample Info: 14DX-0.10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

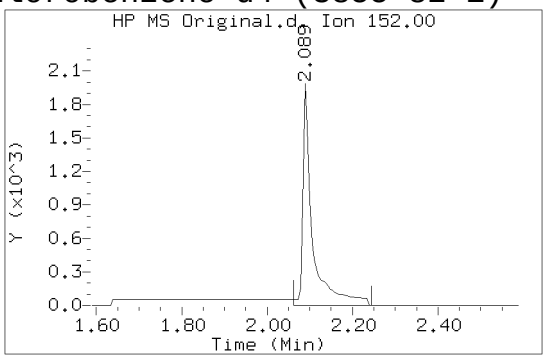


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

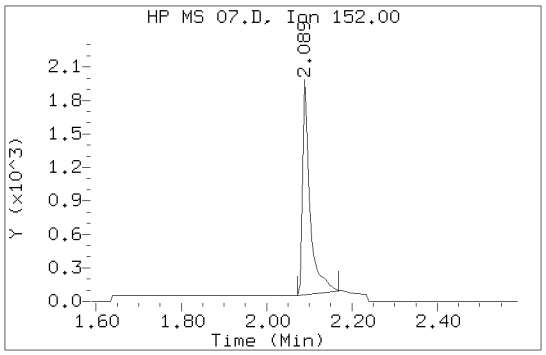
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

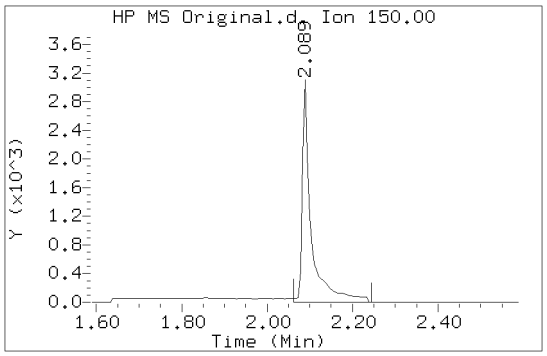
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



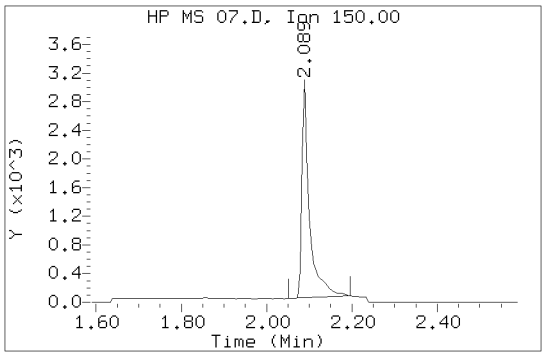
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



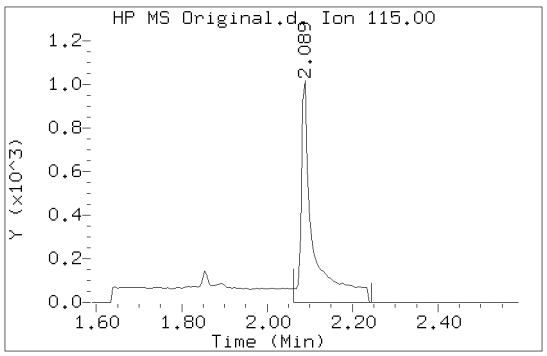
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



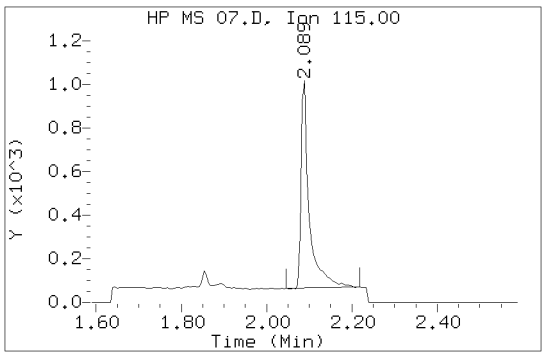
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



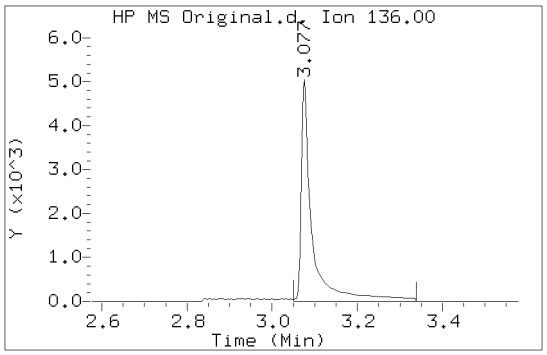
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



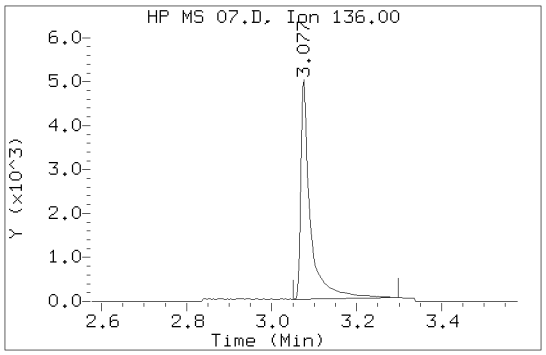
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



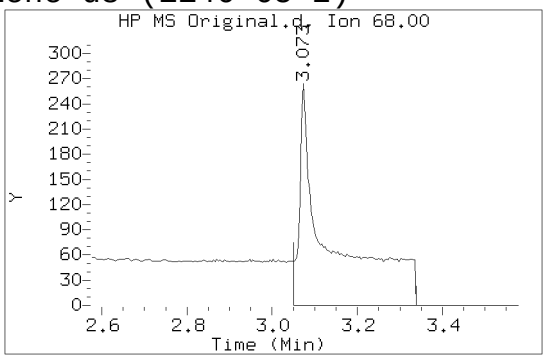
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

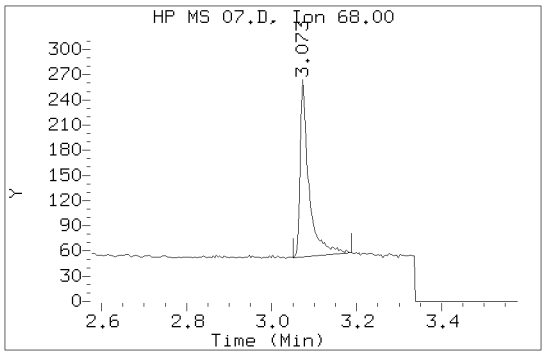
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

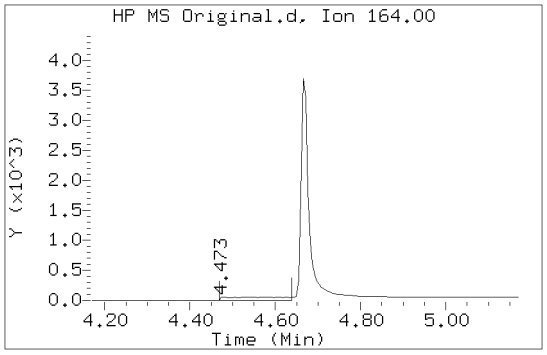


Acenaphthene-d10 (15067-26-2)

Reason Code:

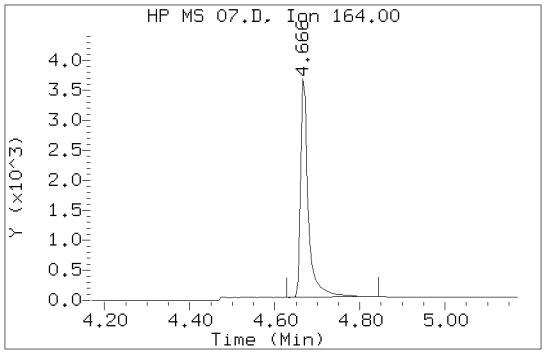
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



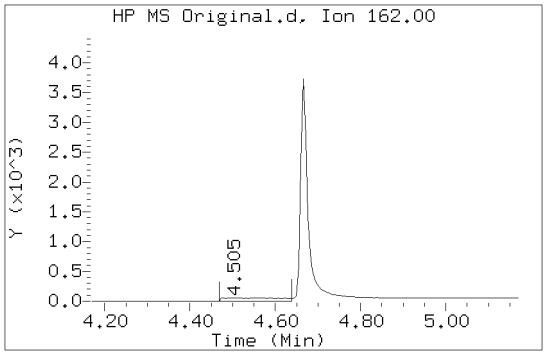
AFTER

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



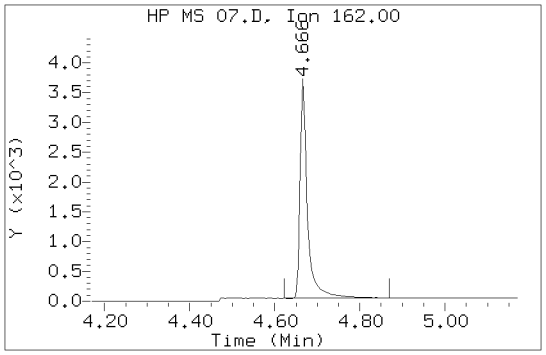
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



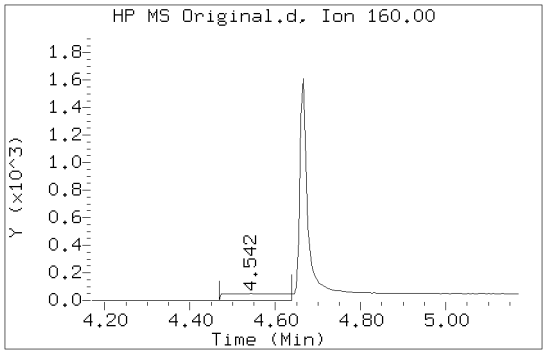
AFTER

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



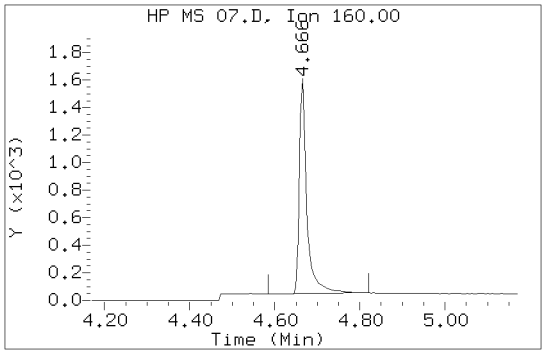
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



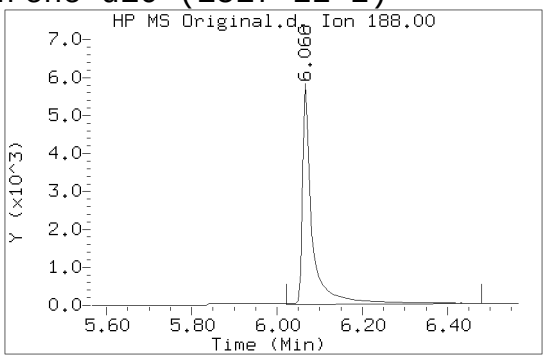
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

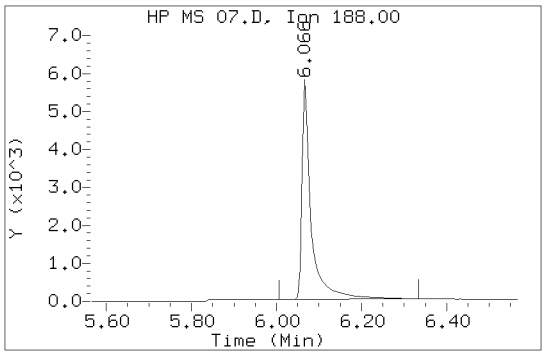
BEFORE

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



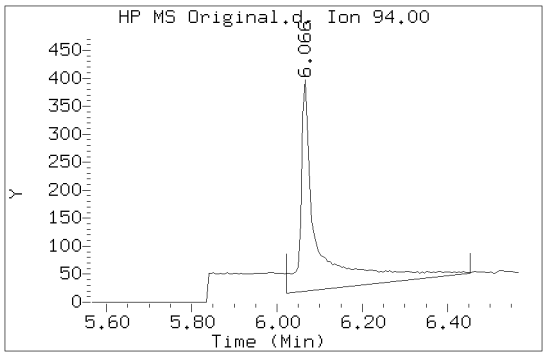
AFTER

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



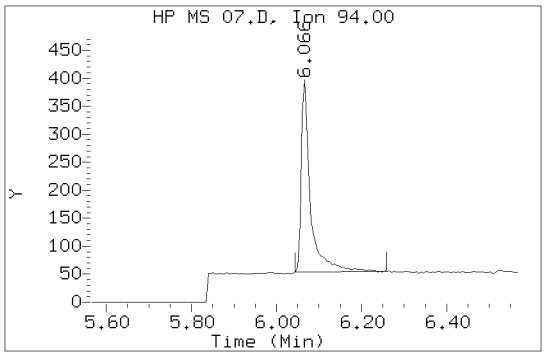
BEFORE

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



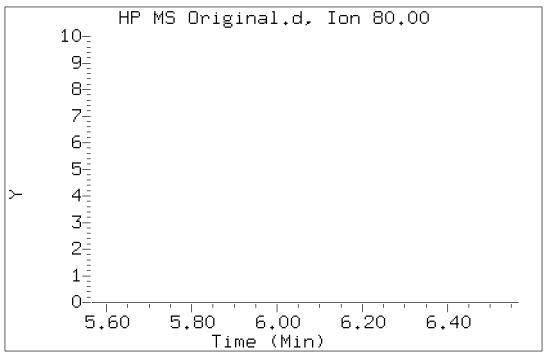
AFTER

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



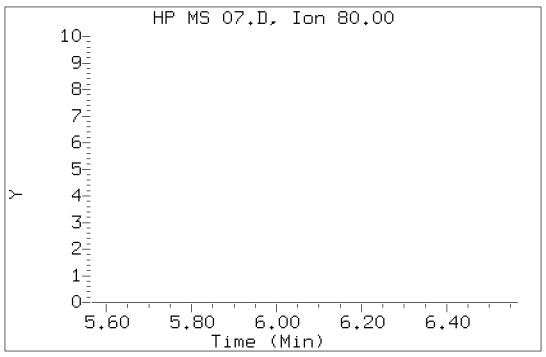
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

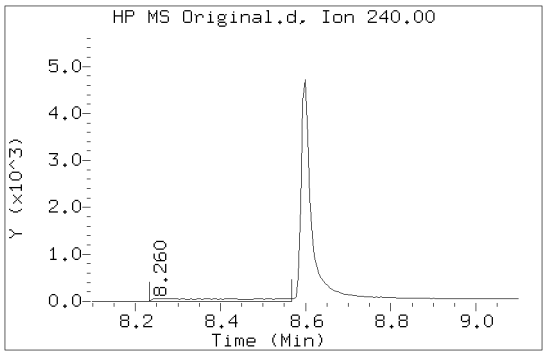


Chrysene-d12 (1719-03-5)

Reason Code:

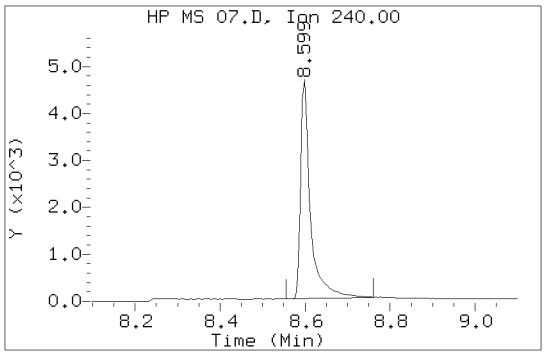
BEFORE

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



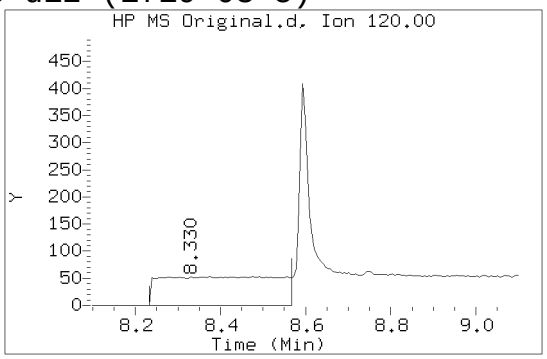
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

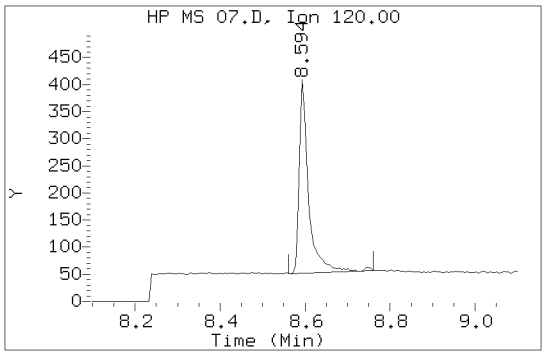
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



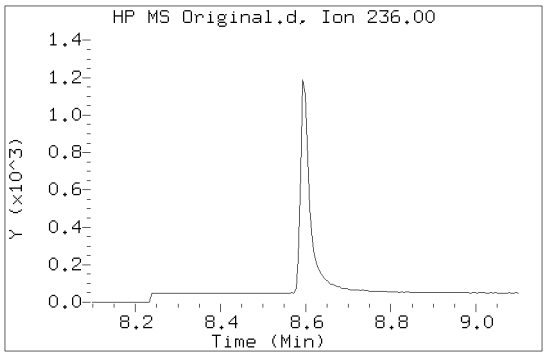
AFTER

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



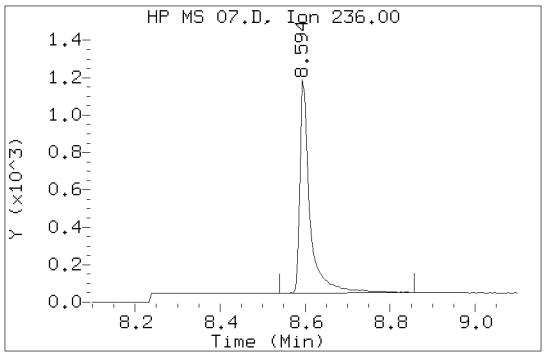
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

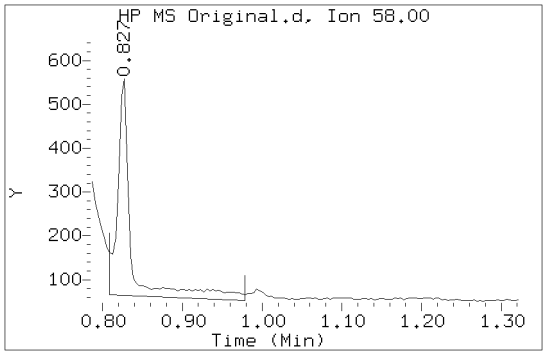


1,4-Dioxane ()

Reason Code:

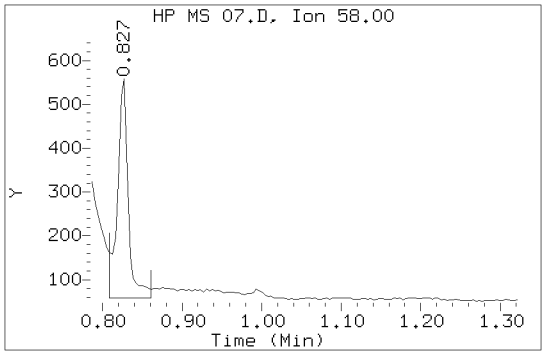
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



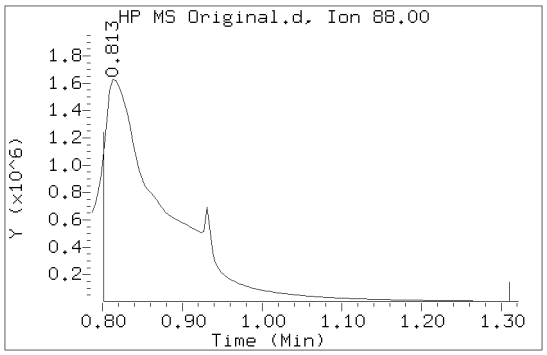
AFTER

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



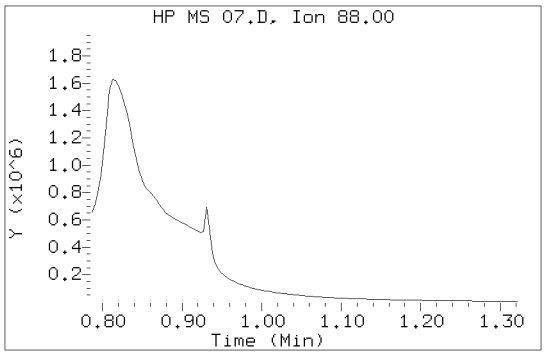
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54



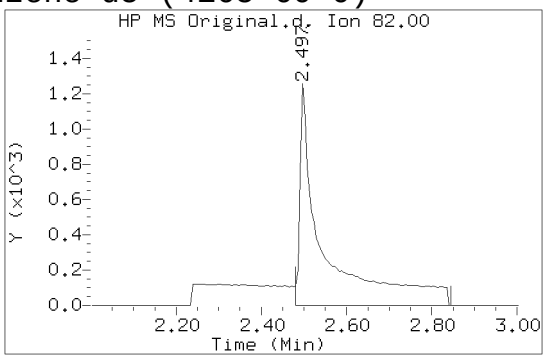
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

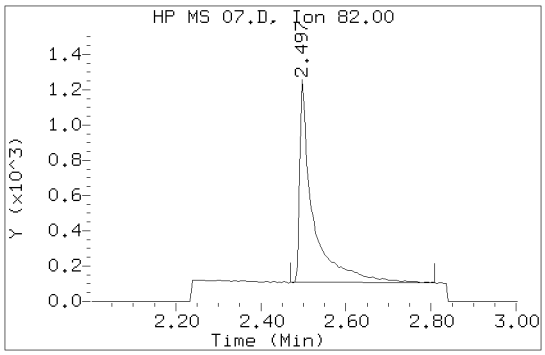
BEFORE

MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



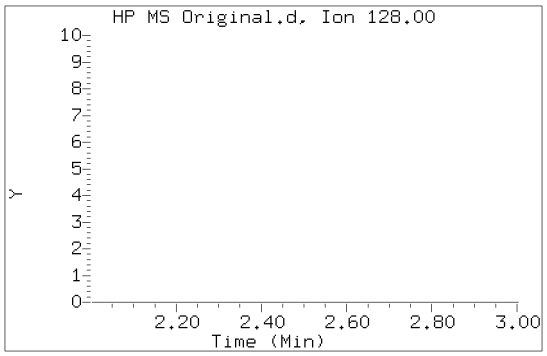
AFTER

MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



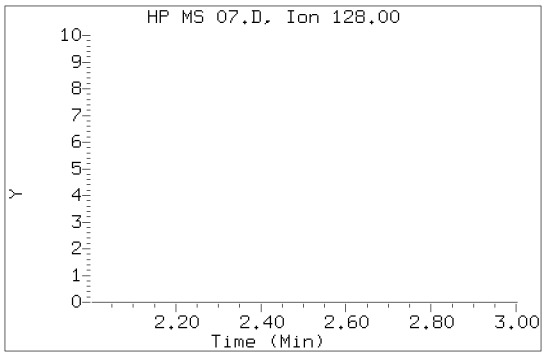
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



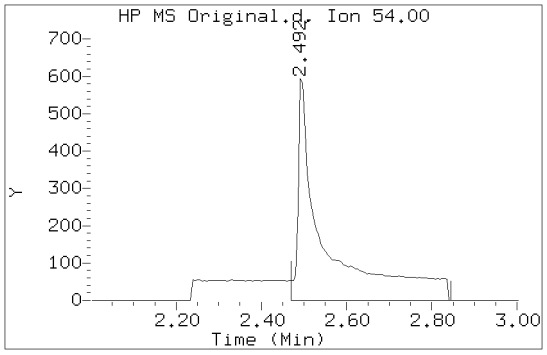
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



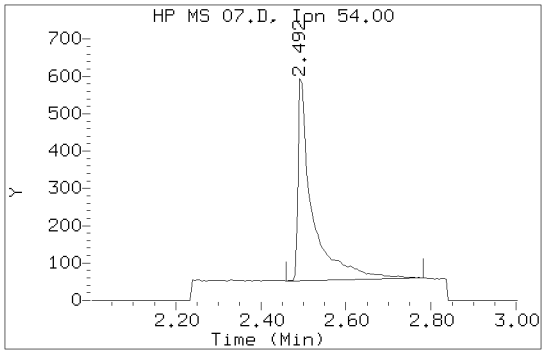
BEFORE

MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54

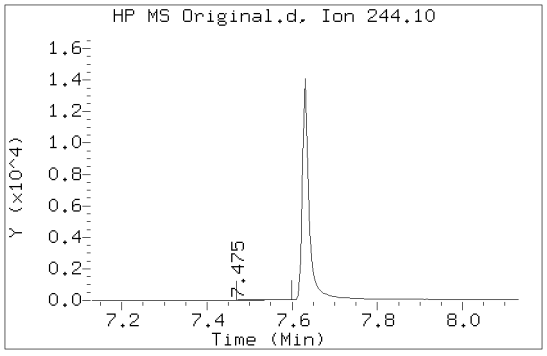


4-Terphenyl-d14 (1718-51-0)

Reason Code:

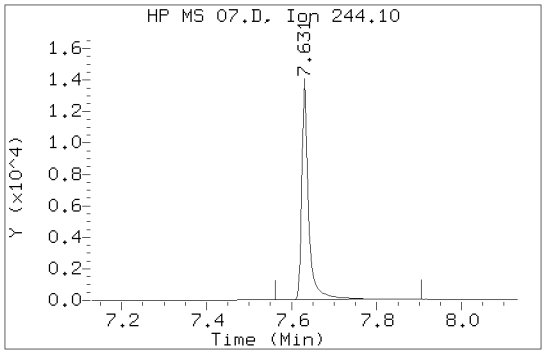
BEFORE

MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



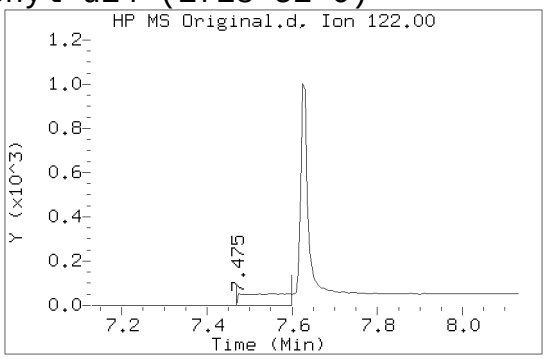
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

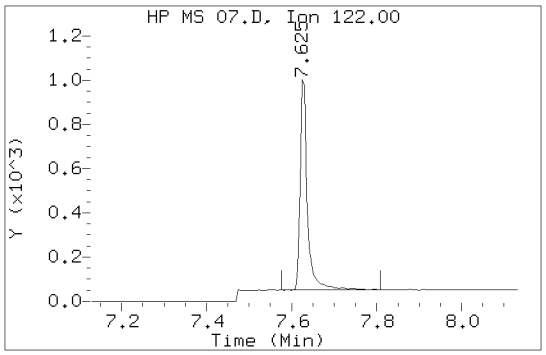
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



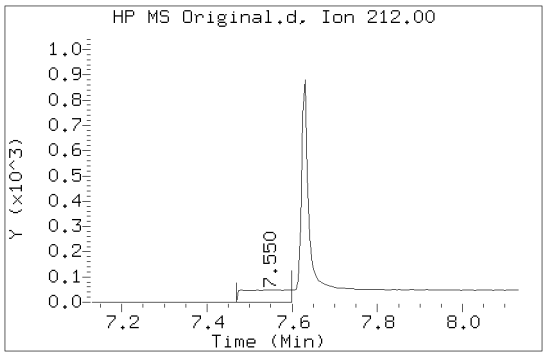
AFTER

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



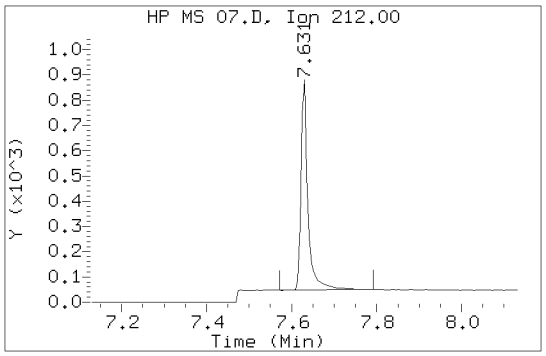
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

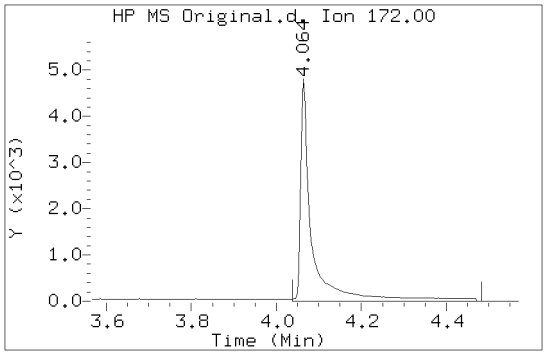


2-Fluorobiphenyl (321-60-8)

Reason Code:

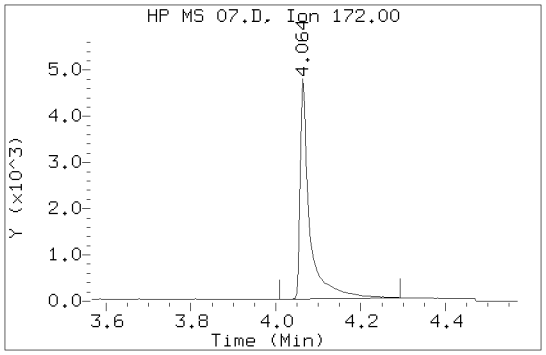
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



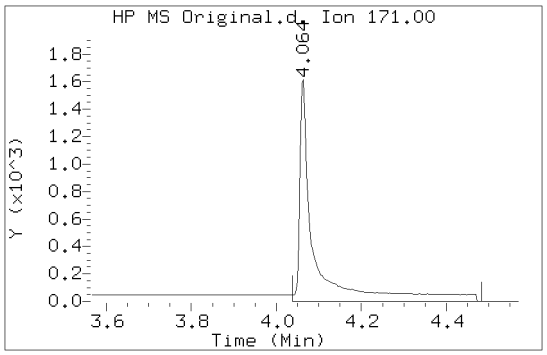
AFTER

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



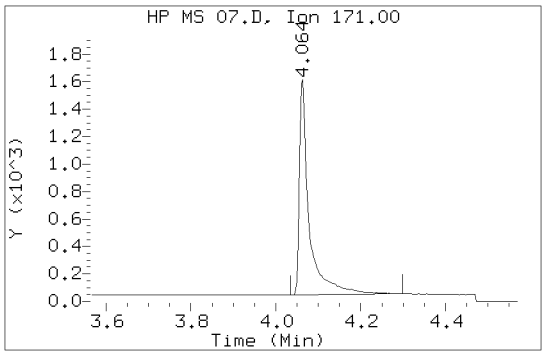
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

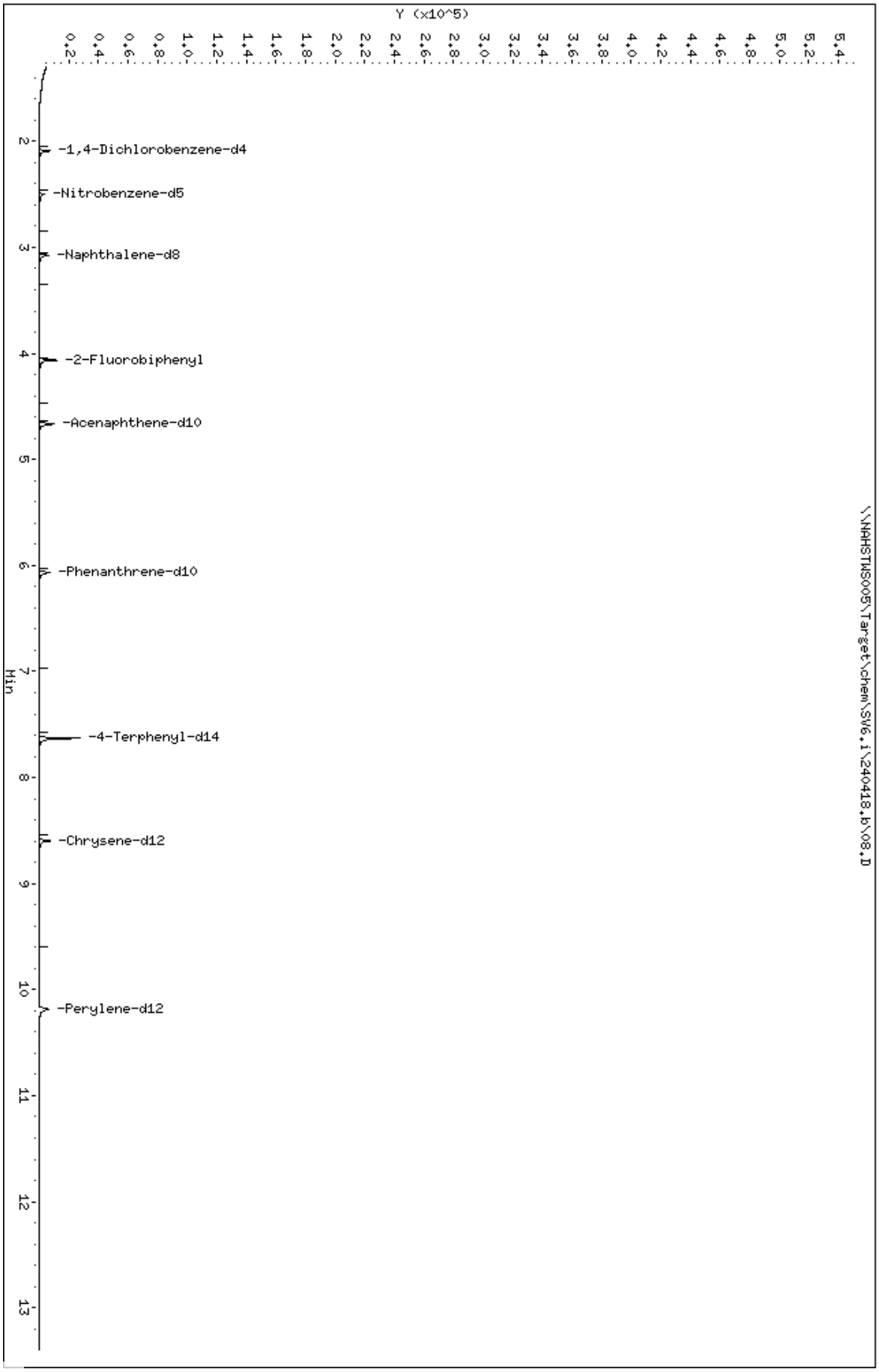
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Date : 18-APR-2024 14:00
Client ID:
Sample Info: 14DX-0.15
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

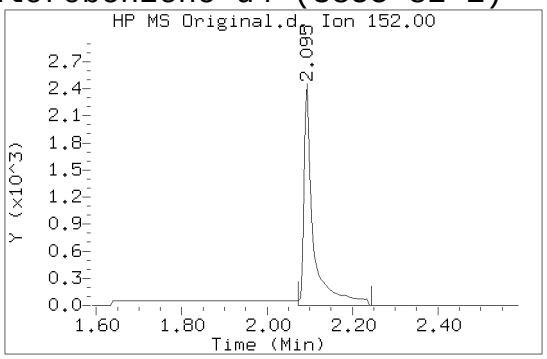
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

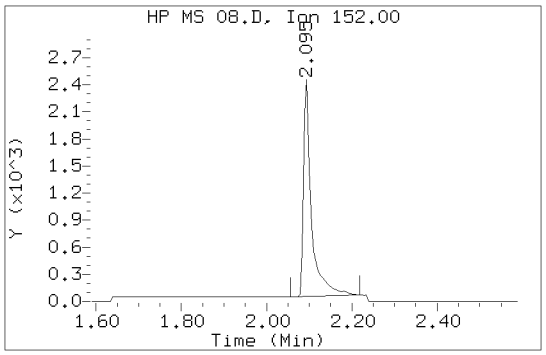
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

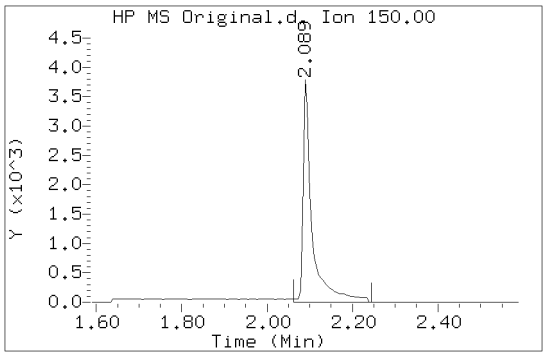
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



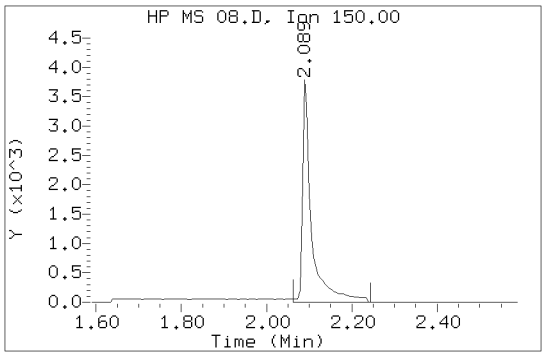
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



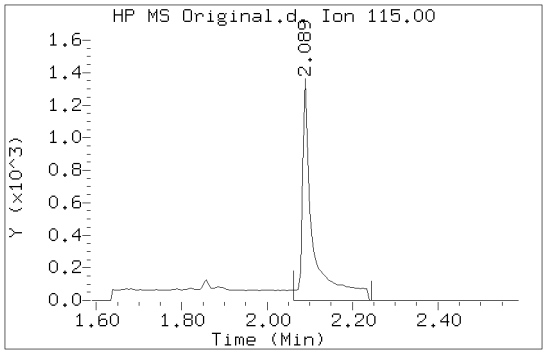
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



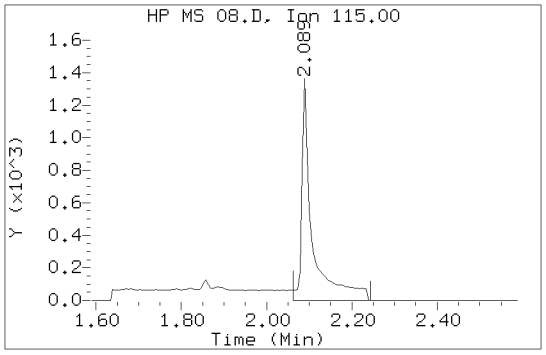
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



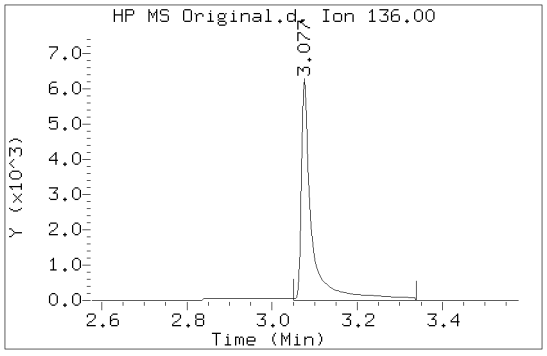
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



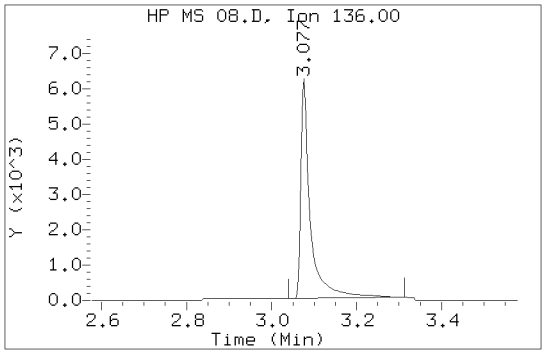
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



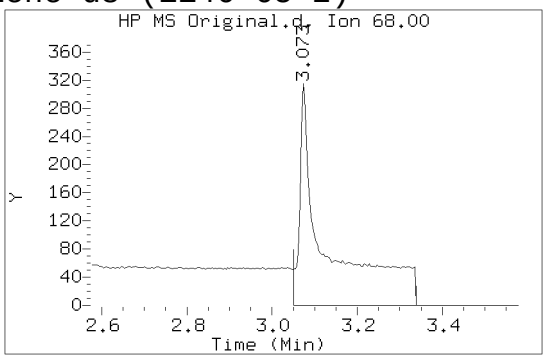
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

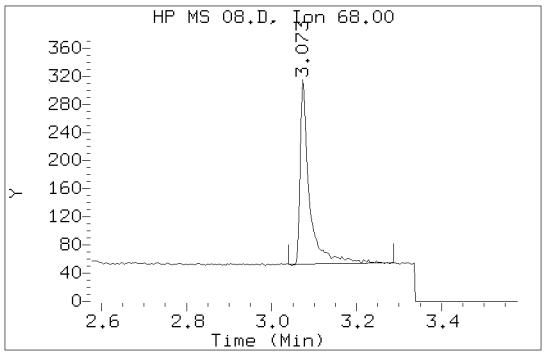
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

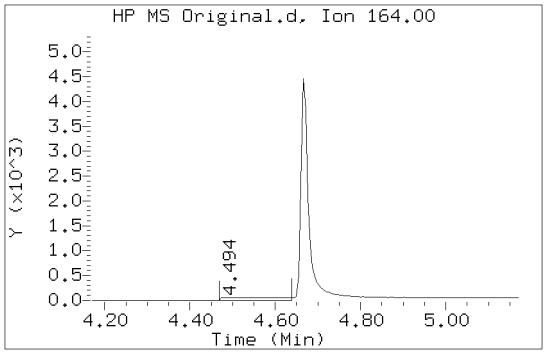


Acenaphthene-d10 (15067-26-2)

Reason Code:

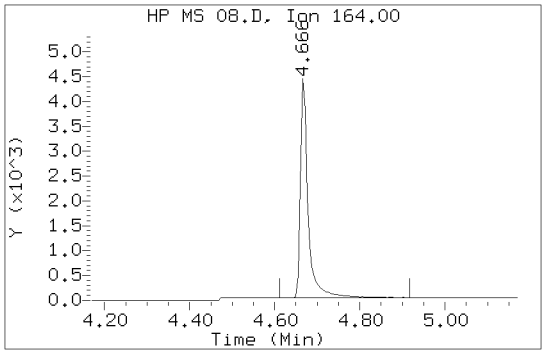
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



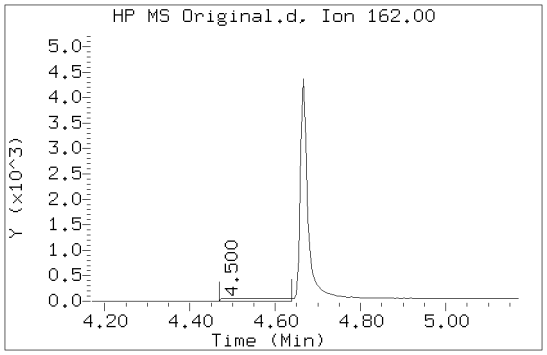
AFTER

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



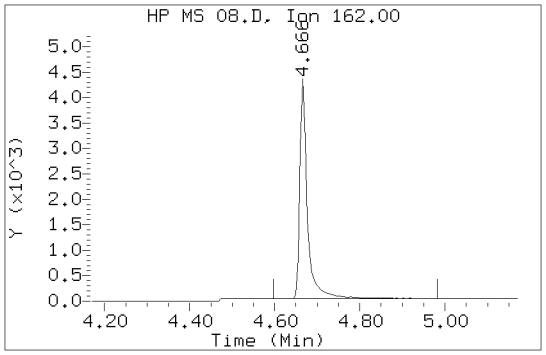
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



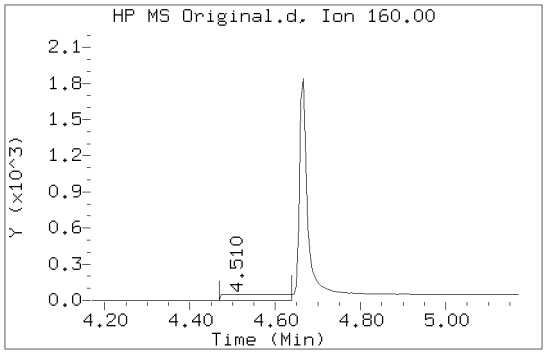
AFTER

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



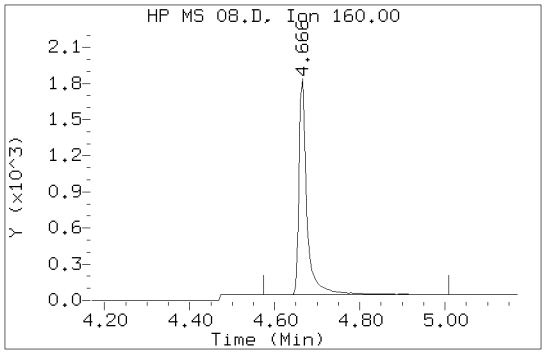
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



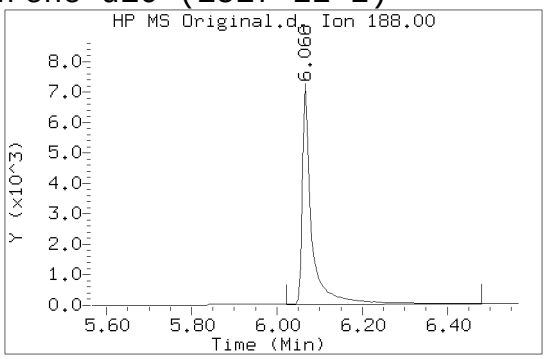
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

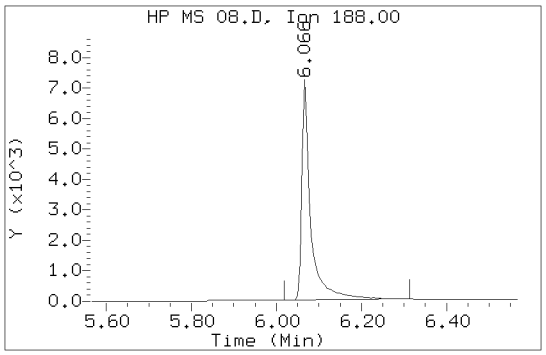
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



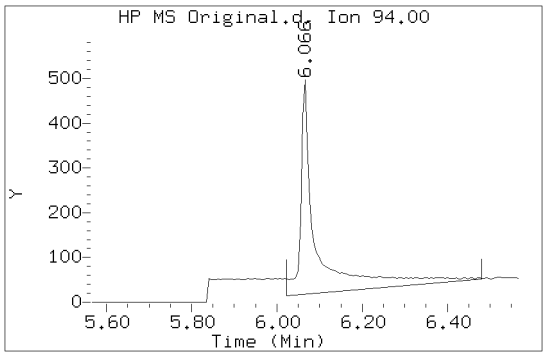
AFTER

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



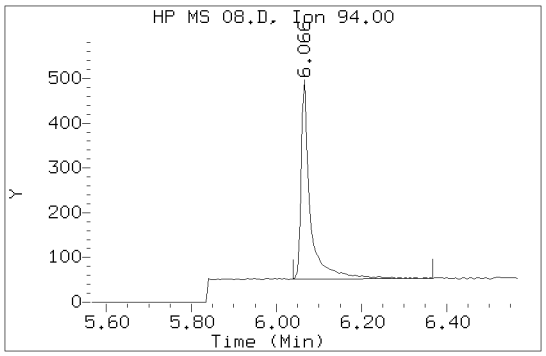
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



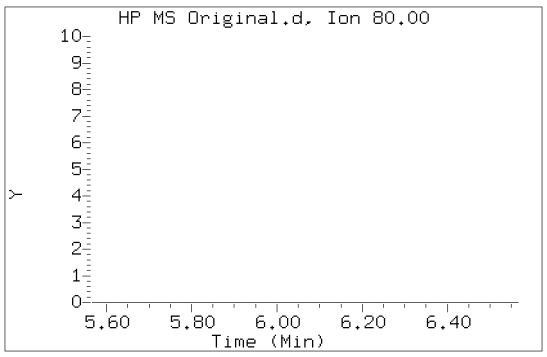
AFTER

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



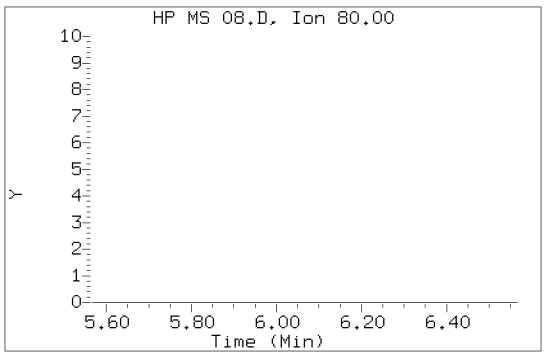
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

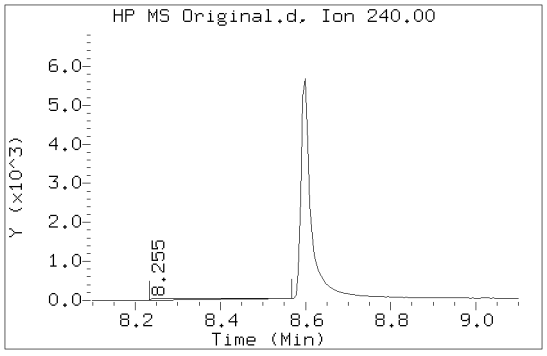


Chrysene-d12 (1719-03-5)

Reason Code:

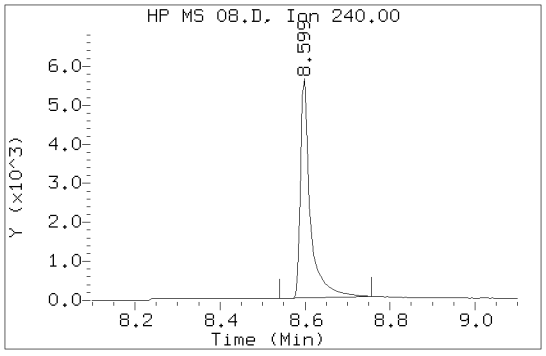
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



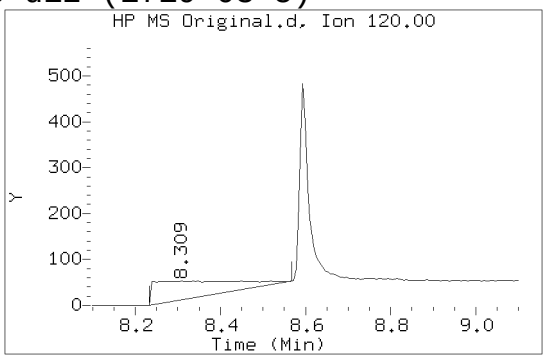
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

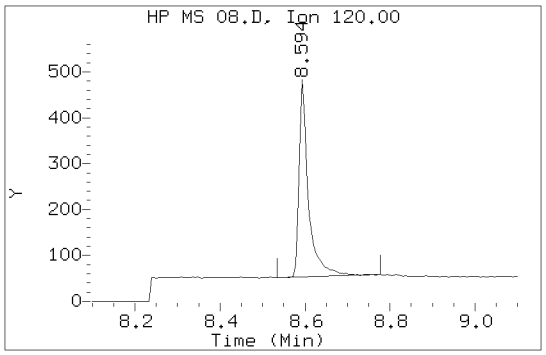
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



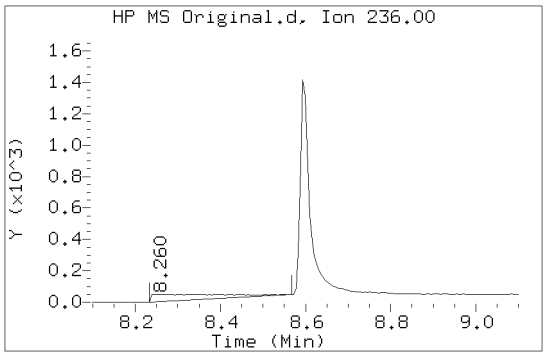
AFTER

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



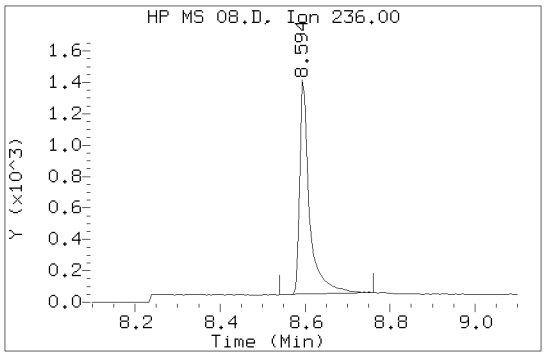
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

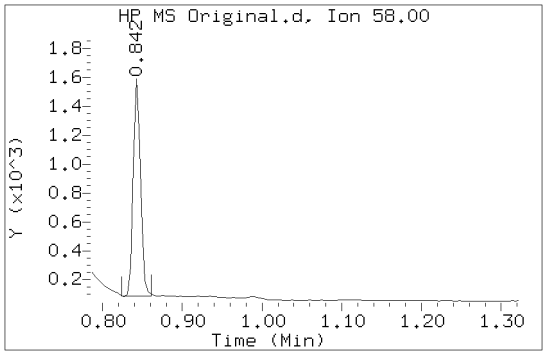


1,4-Dioxane ()

Reason Code:

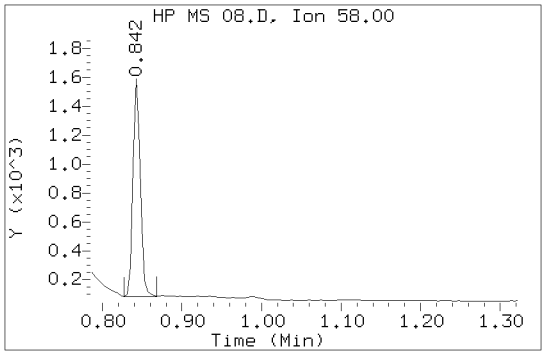
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



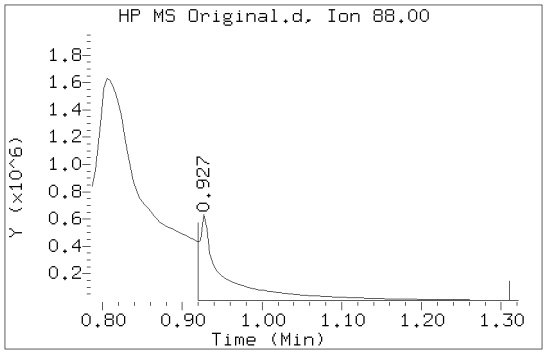
AFTER

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



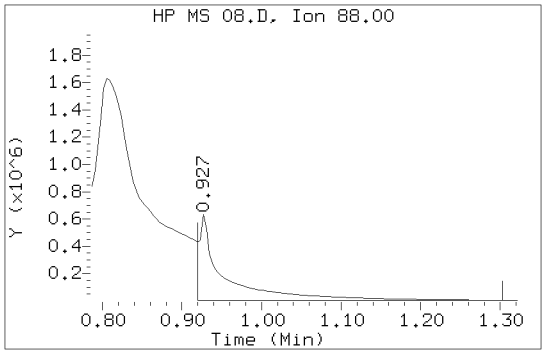
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



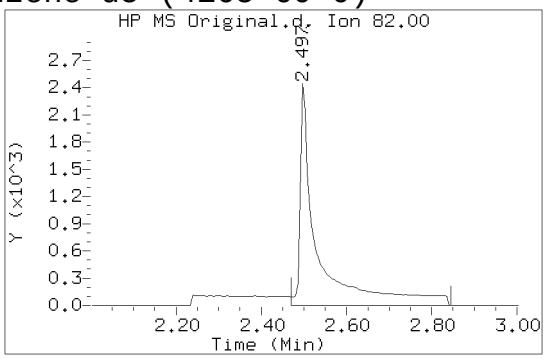
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Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

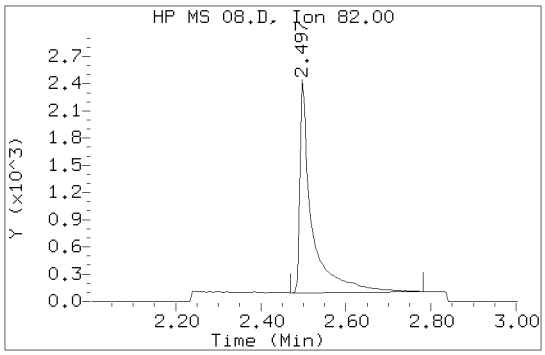
BEFORE

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



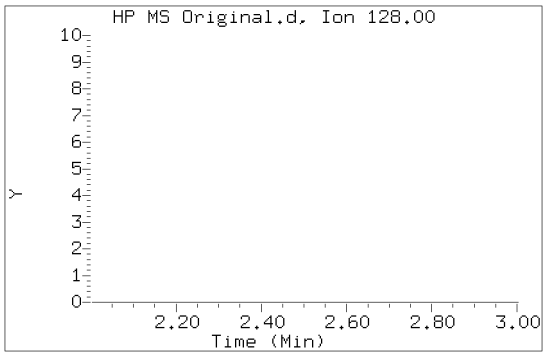
AFTER

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



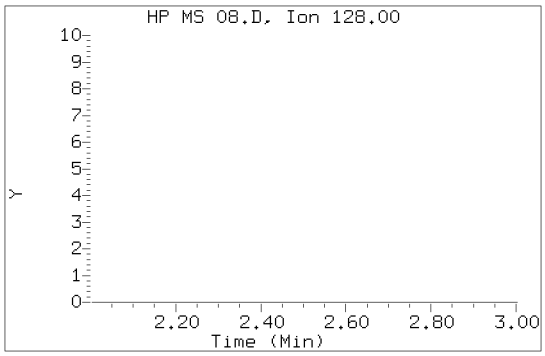
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



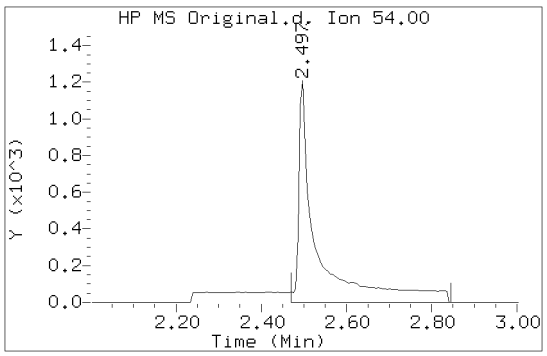
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



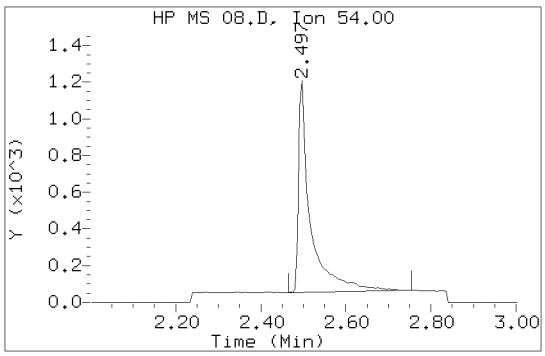
BEFORE

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

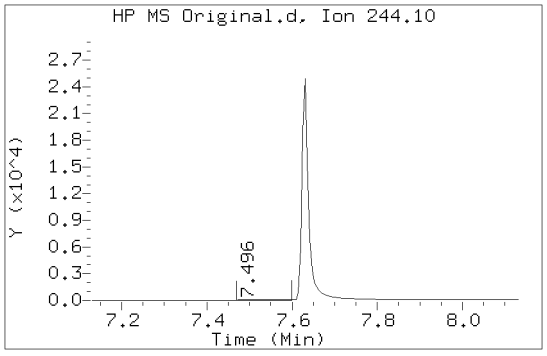


4-Terphenyl-d14 (1718-51-0)

Reason Code:

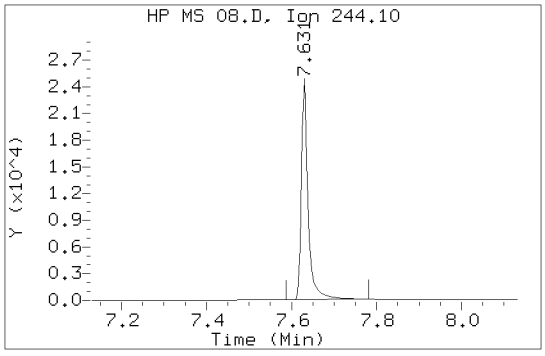
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



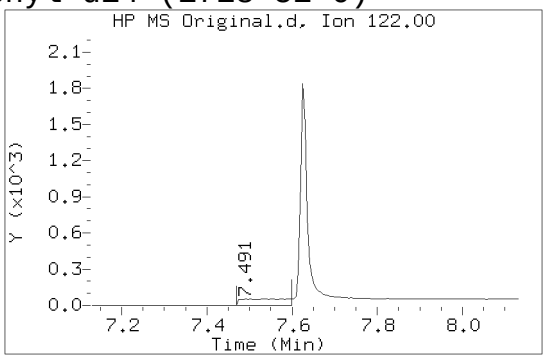
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

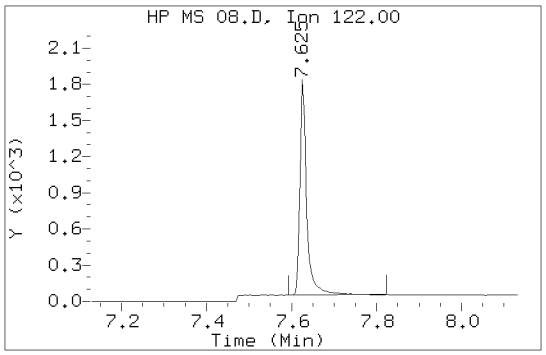
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



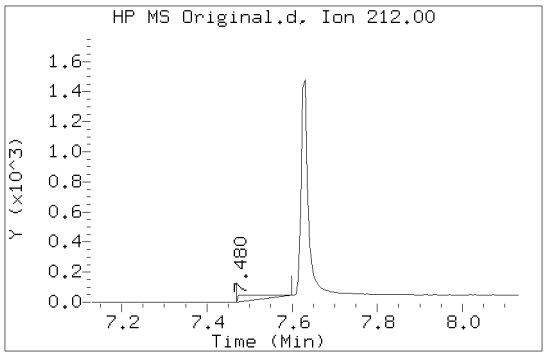
AFTER

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



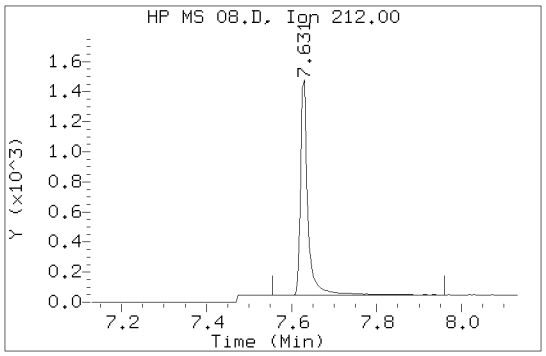
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

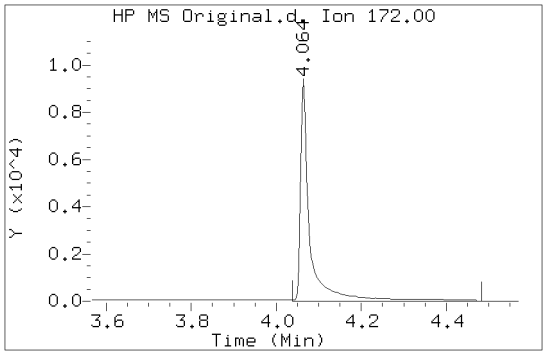


2-Fluorobiphenyl (321-60-8)

Reason Code:

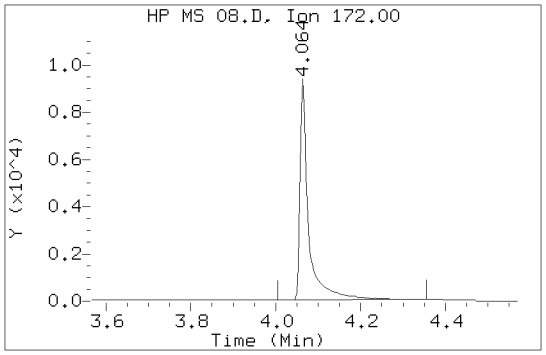
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



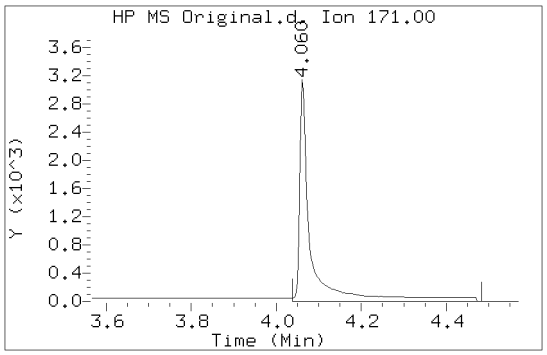
AFTER

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



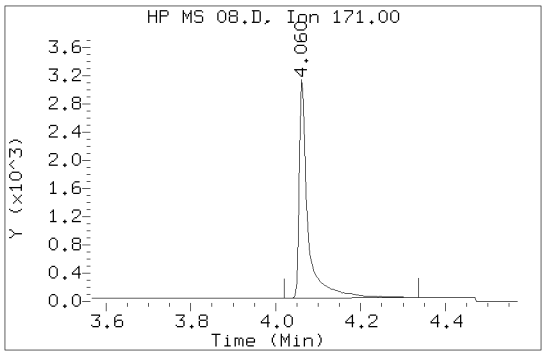
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

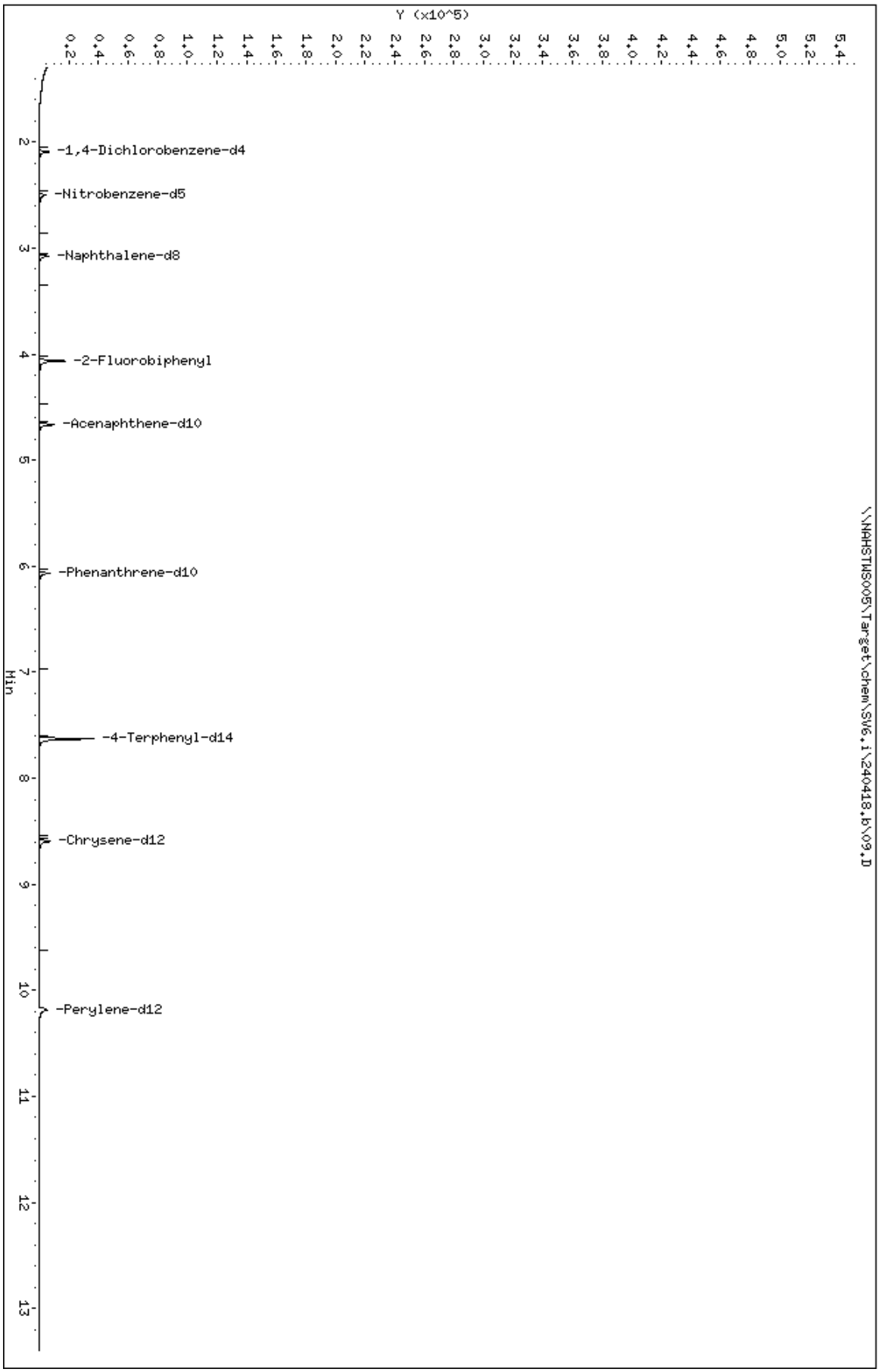
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

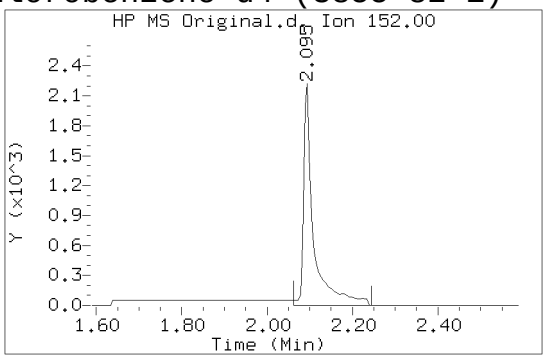
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

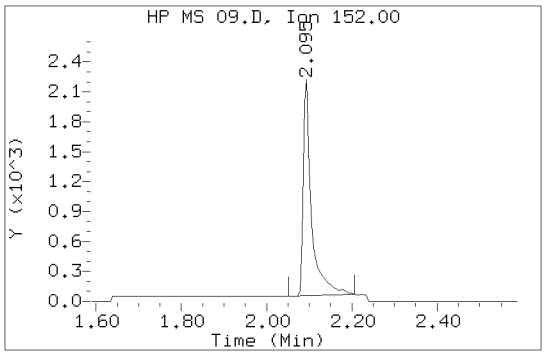
BEFORE

MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



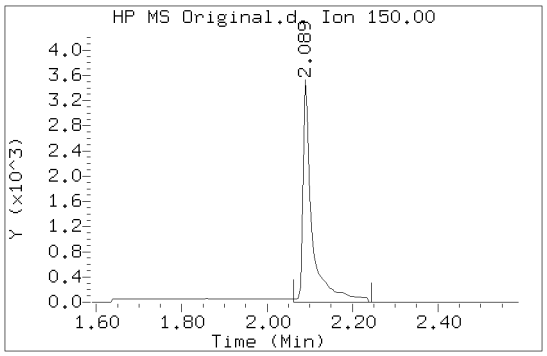
AFTER

MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



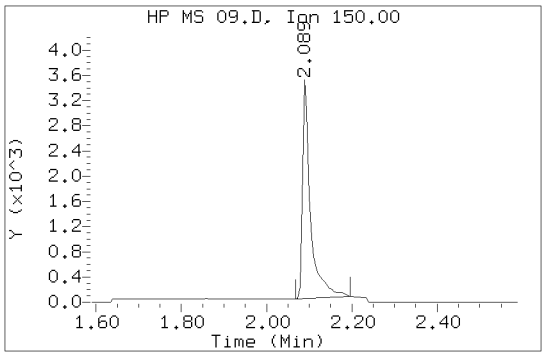
BEFORE

MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



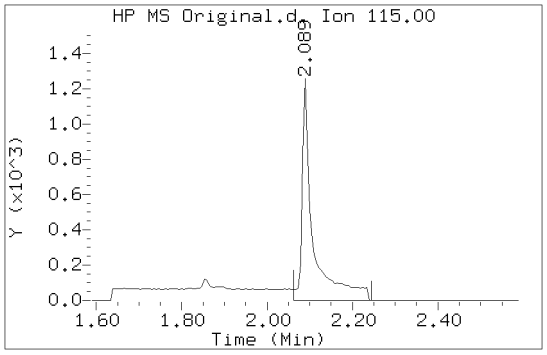
AFTER

MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54



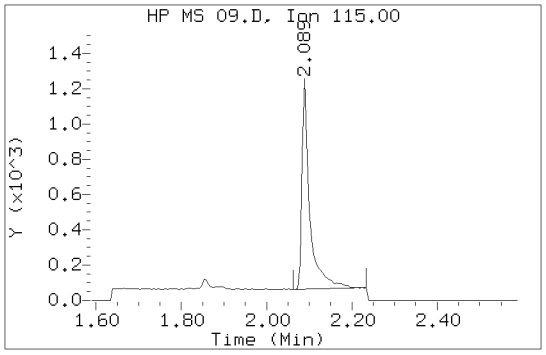
BEFORE

MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54

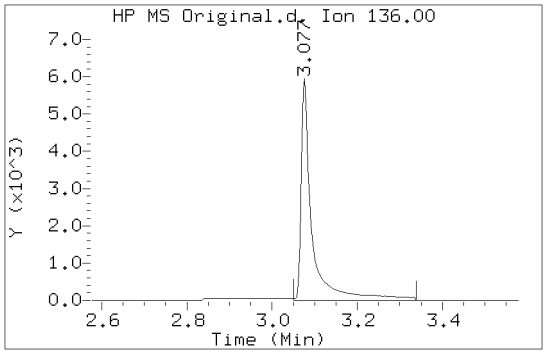


Naphthalene-d8 (1146-65-2)

Reason Code:

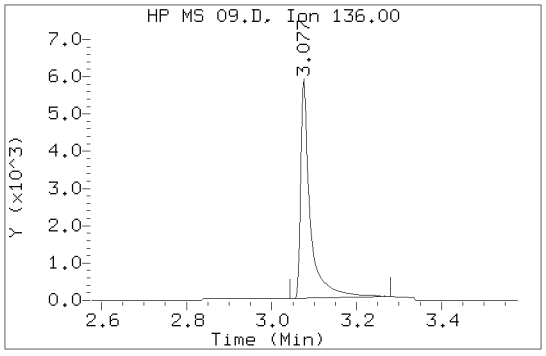
BEFORE

MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54

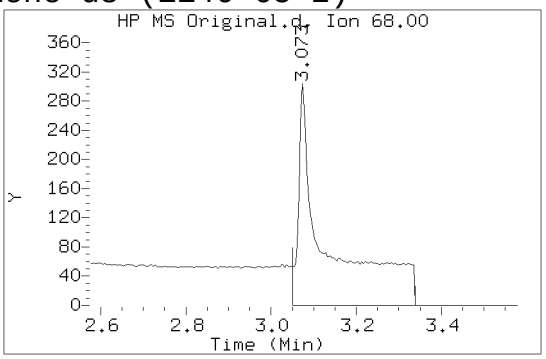


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

BEFORE

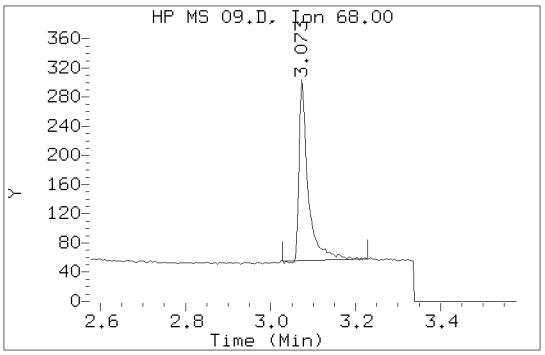
MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



Reason Code:

AFTER

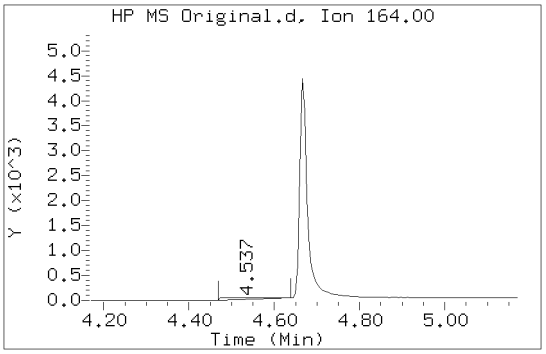
MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54



Acenaphthene-d10 (15067-26-2)

BEFORE

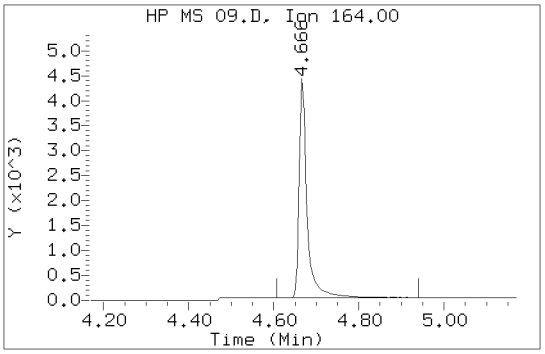
MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



Reason Code:

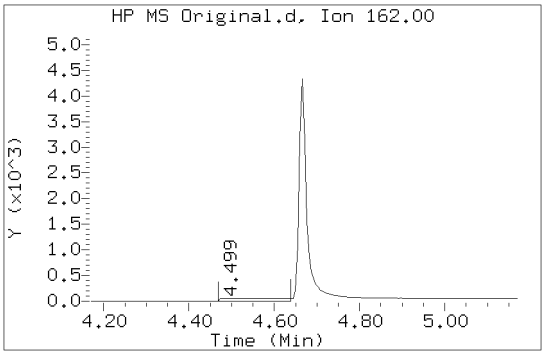
AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



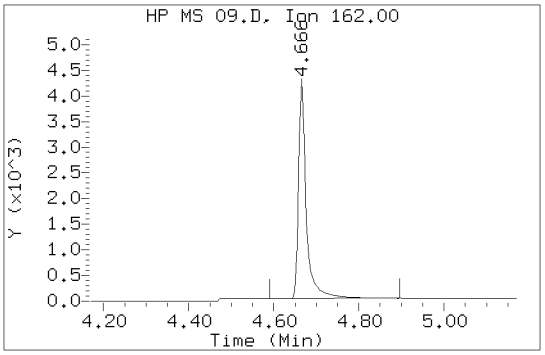
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



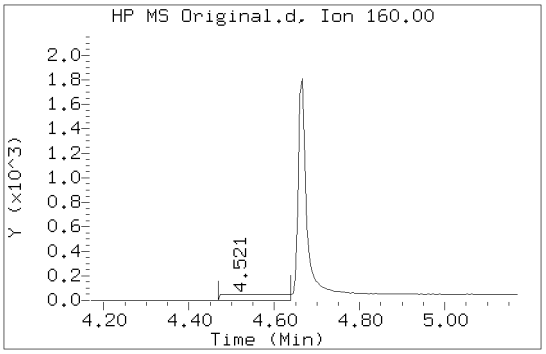
AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



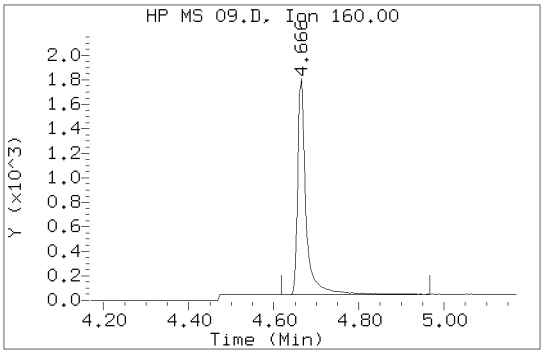
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



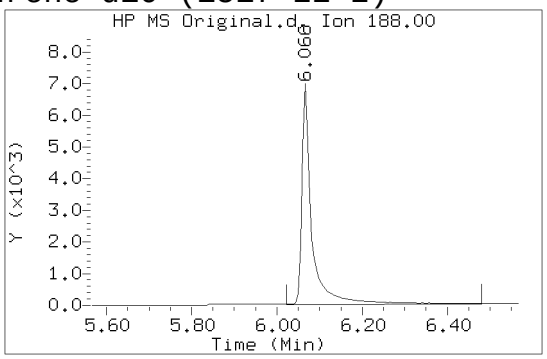
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

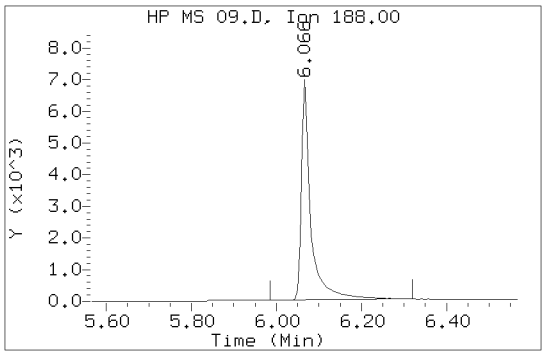
BEFORE

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



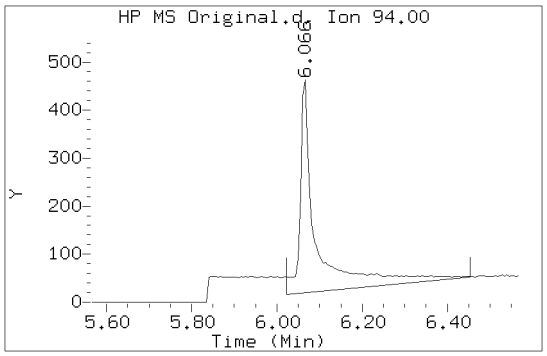
AFTER

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



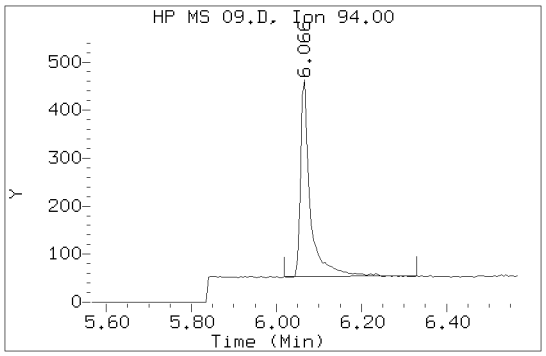
BEFORE

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



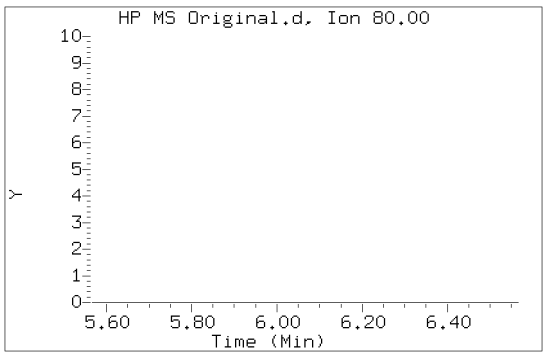
AFTER

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



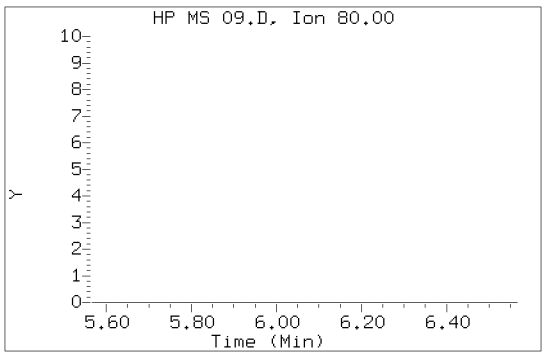
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

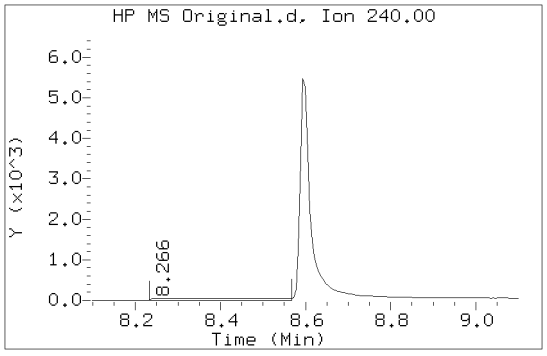


Chrysene-d12 (1719-03-5)

Reason Code:

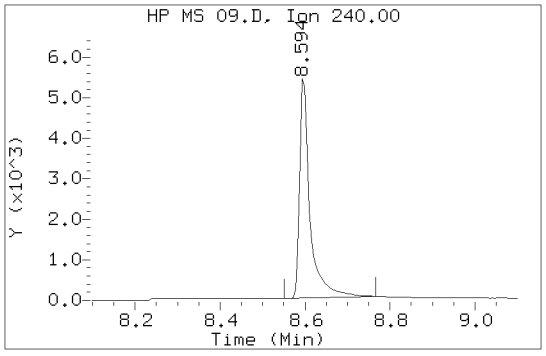
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54



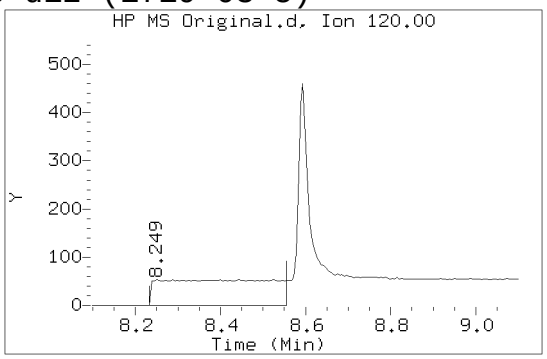
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

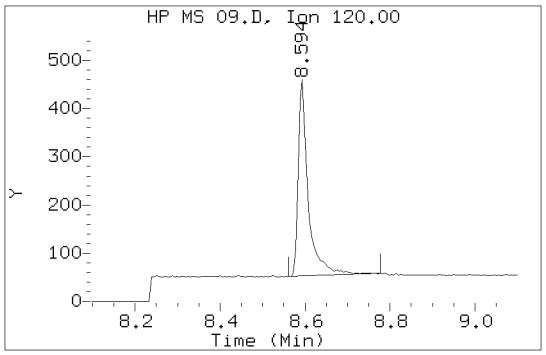
BEFORE

MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



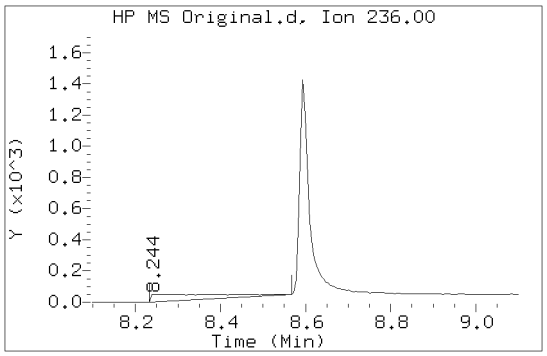
AFTER

MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



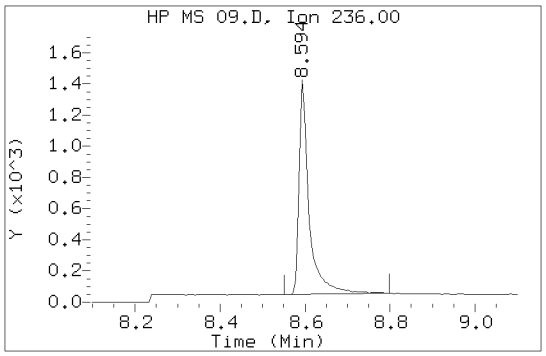
BEFORE

MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54

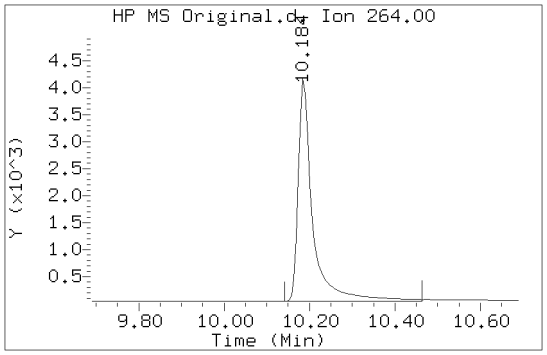


Perylene-d12 (1520-96-3)

Reason Code:

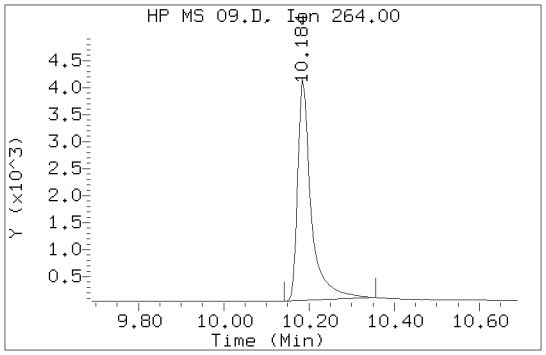
BEFORE

MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



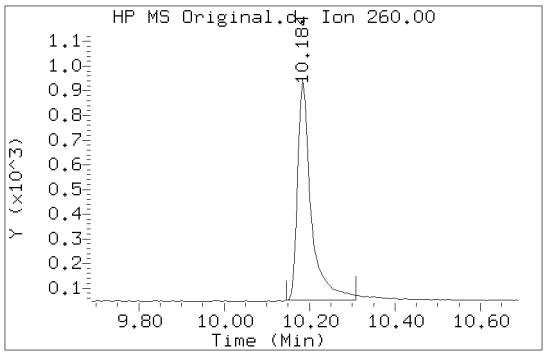
AFTER

MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



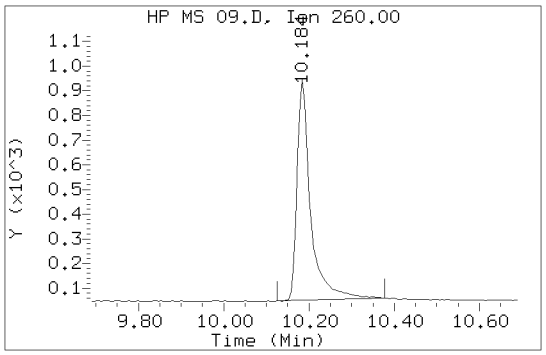
BEFORE

MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



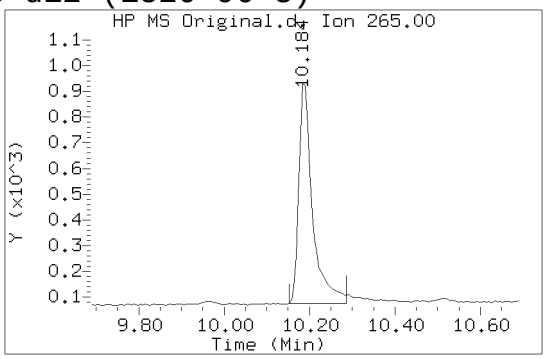
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

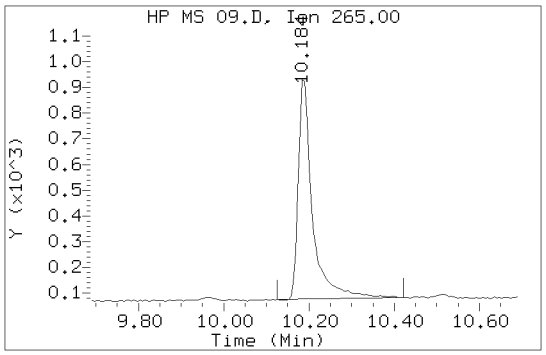
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

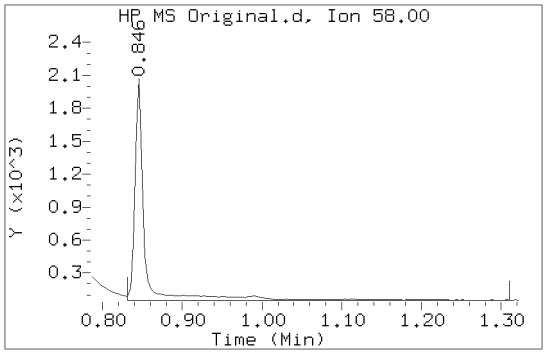


1,4-Dioxane ()

Reason Code:

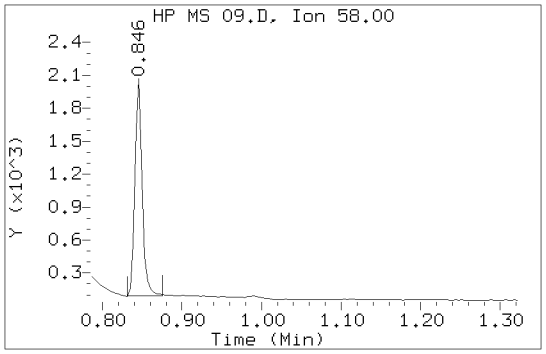
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



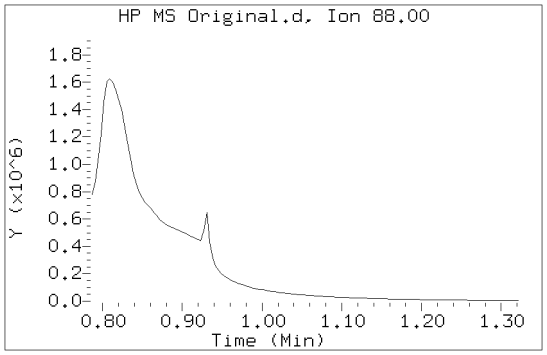
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



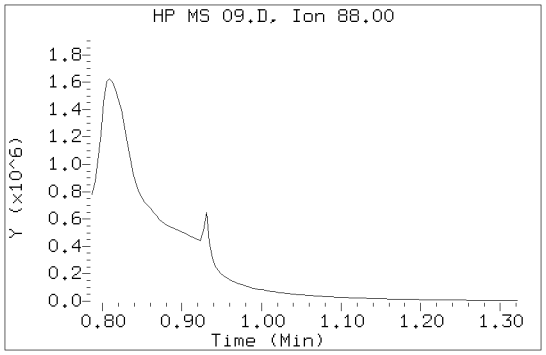
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

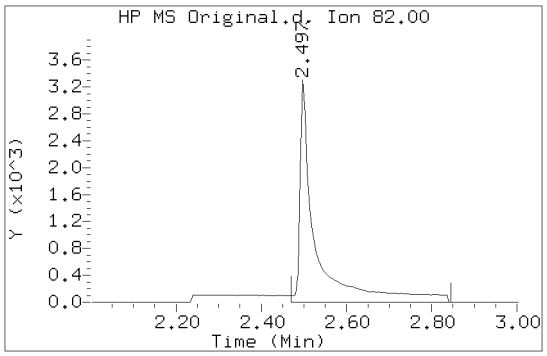


Nitrobenzene-d5 (4165-60-0)

Reason Code:

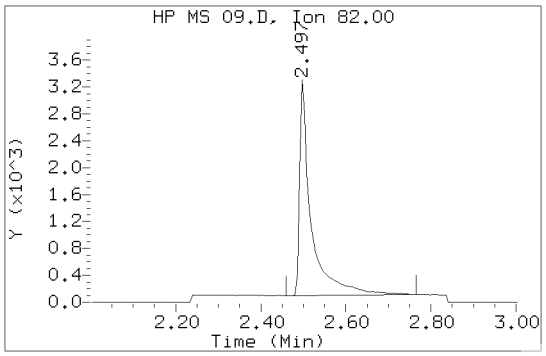
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54



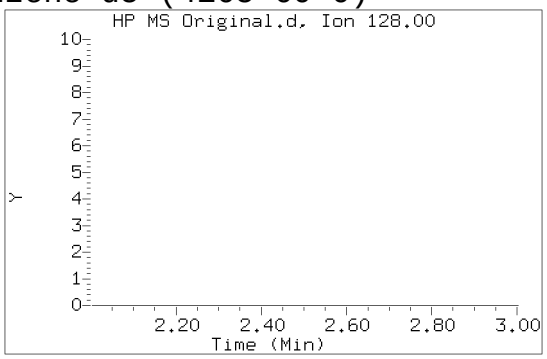
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Nitrobenzene-d5 (4165-60-0)

Reason Code:

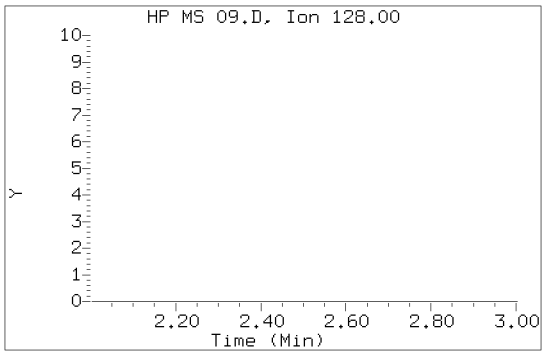
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



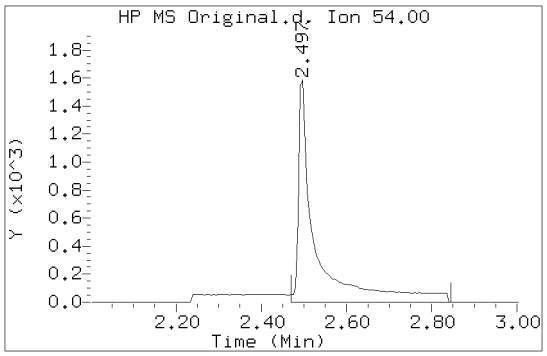
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



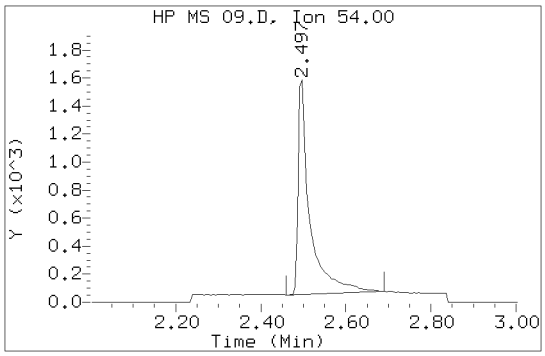
BEFORE

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54

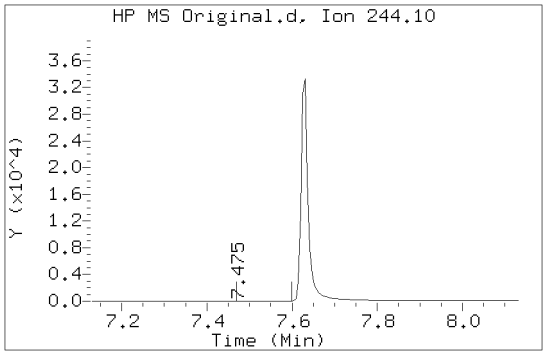


4-Terphenyl-d14 (1718-51-0)

Reason Code:

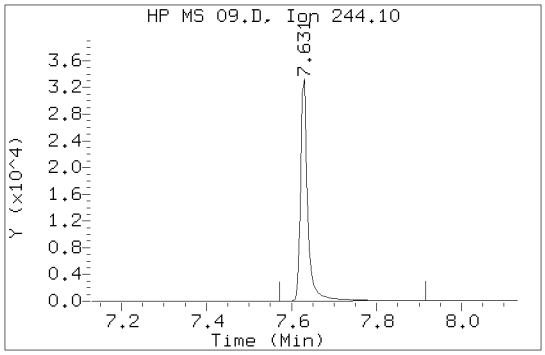
BEFORE

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



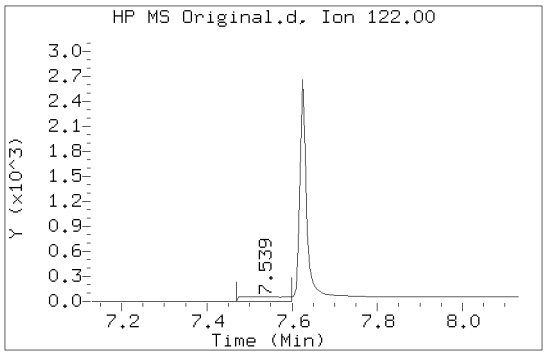
AFTER

MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



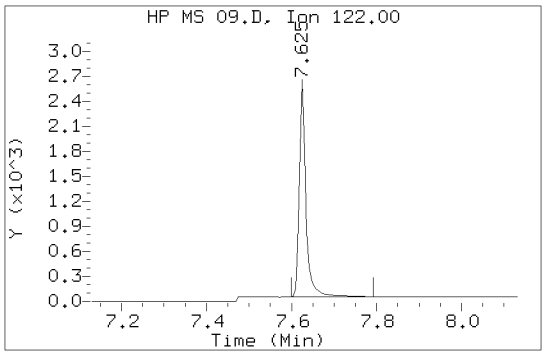
BEFORE

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



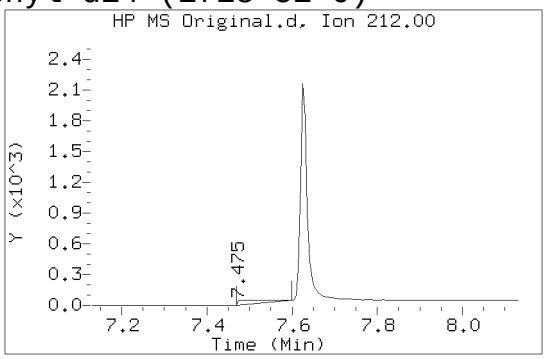
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

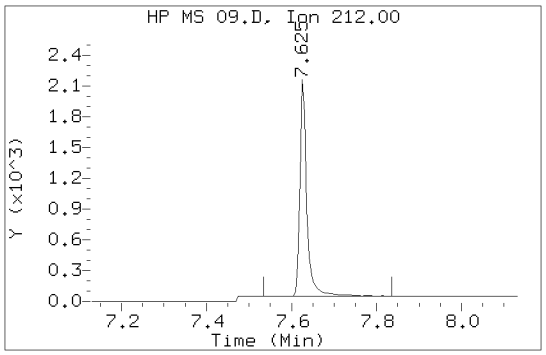
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

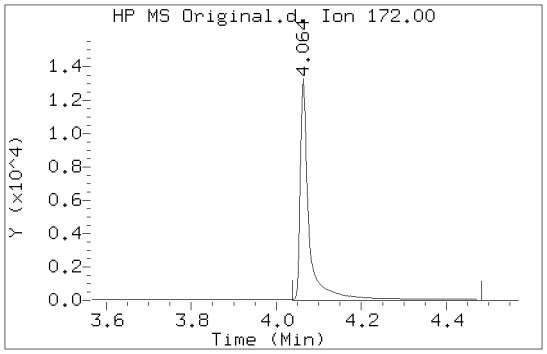


2-Fluorobiphenyl (321-60-8)

Reason Code:

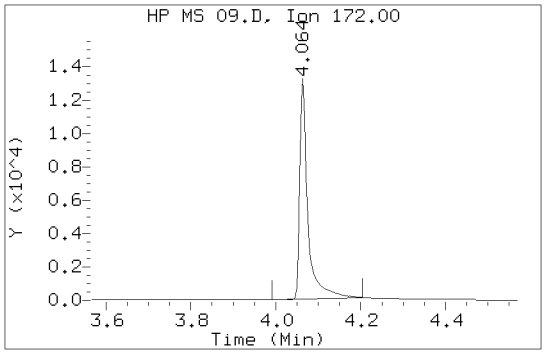
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



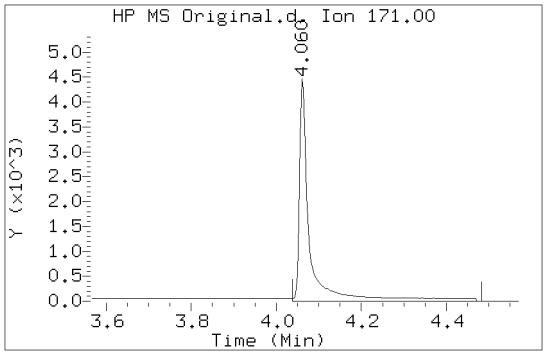
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



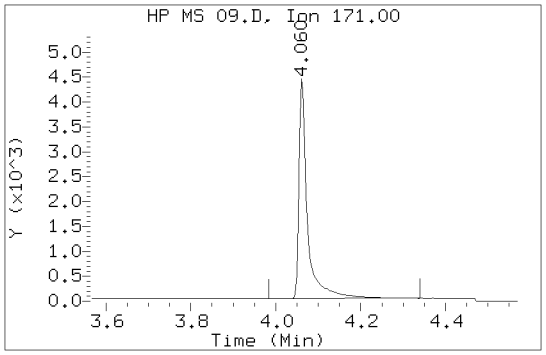
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

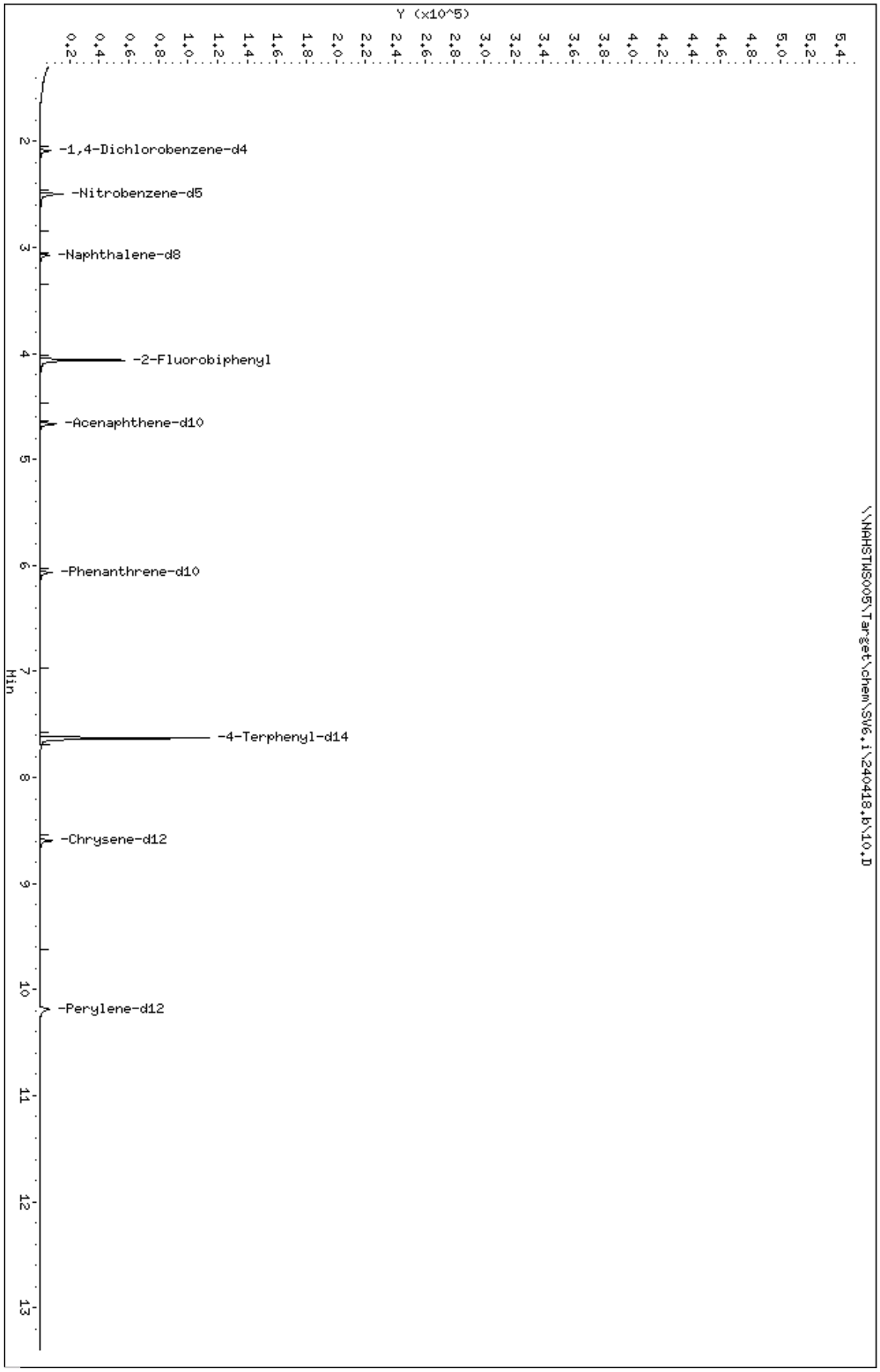
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Date : 18-APR-2024 14:35
Client ID:
Sample Info: 14DX-0.50
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

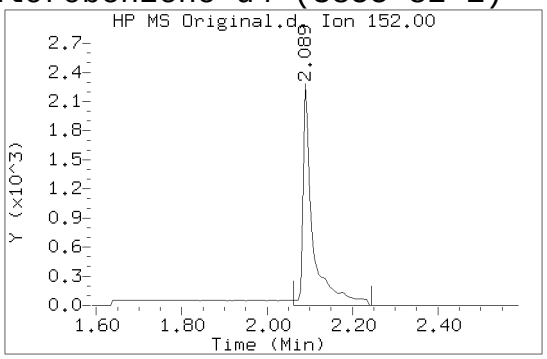


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

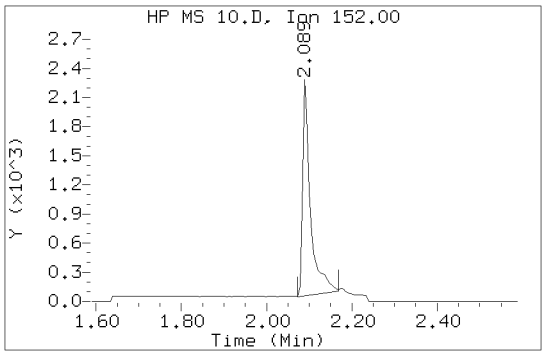
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

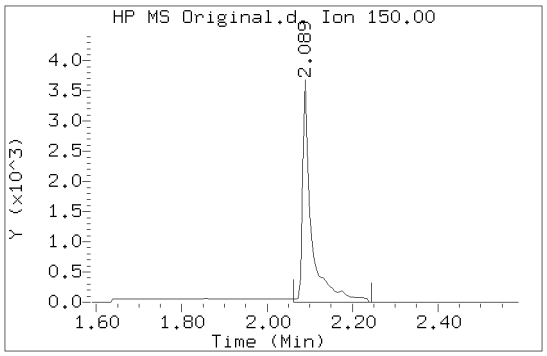
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



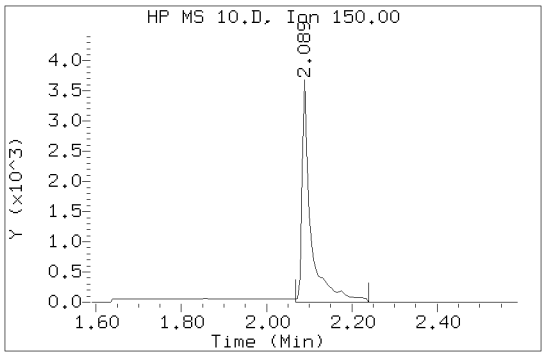
AFTER
MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



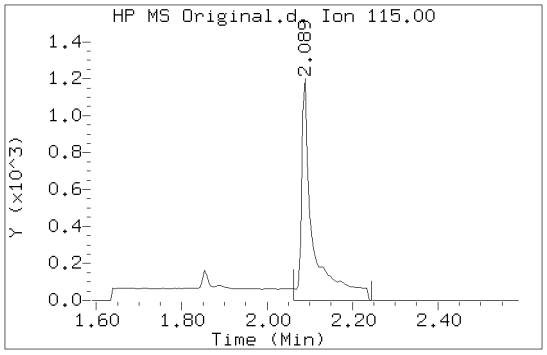
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



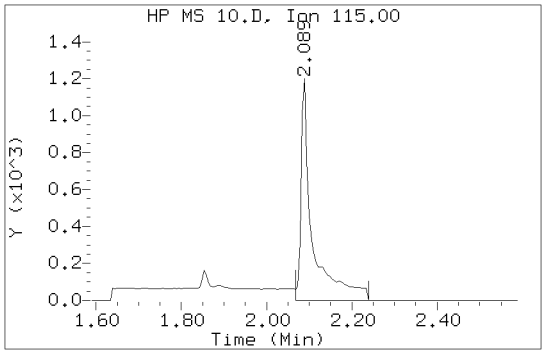
AFTER
MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



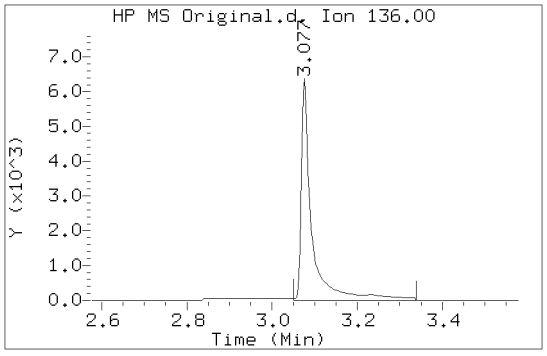
AFTER
MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05



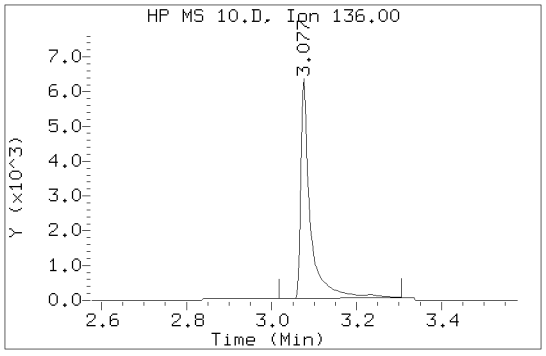
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



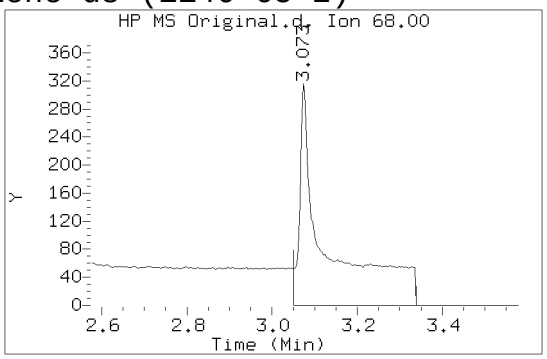
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

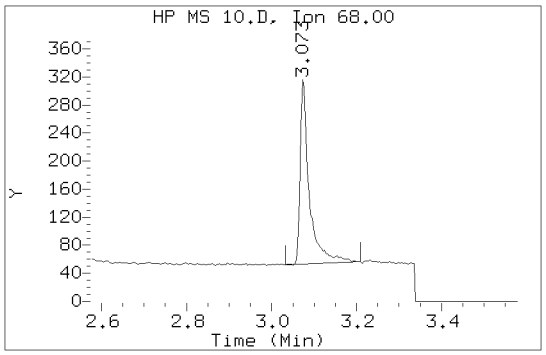
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

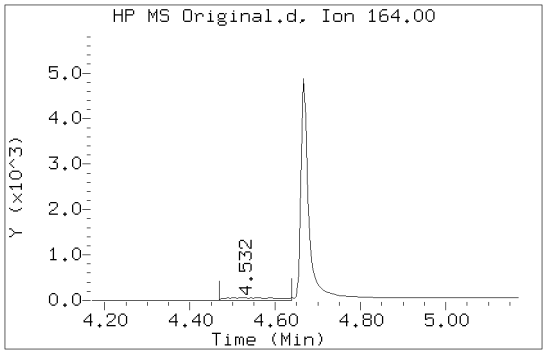


Acenaphthene-d10 (15067-26-2)

Reason Code:

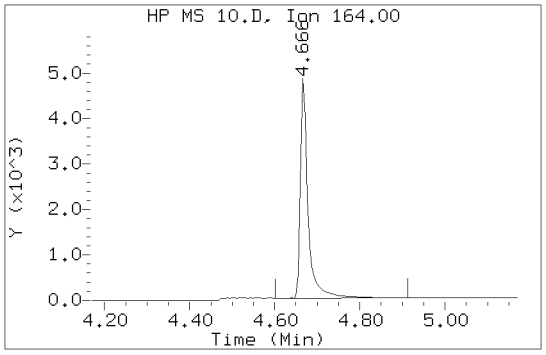
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



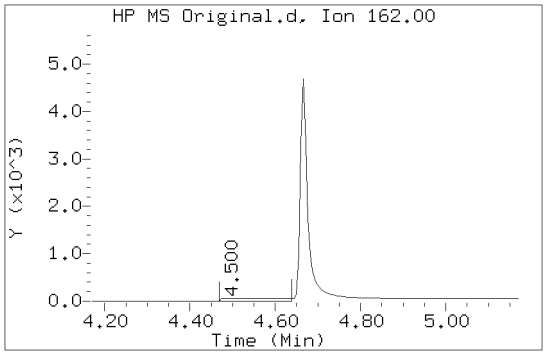
AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



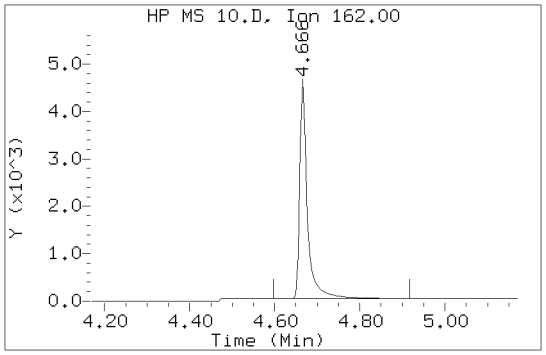
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



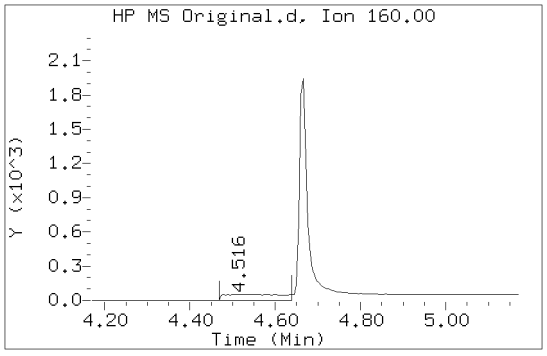
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MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



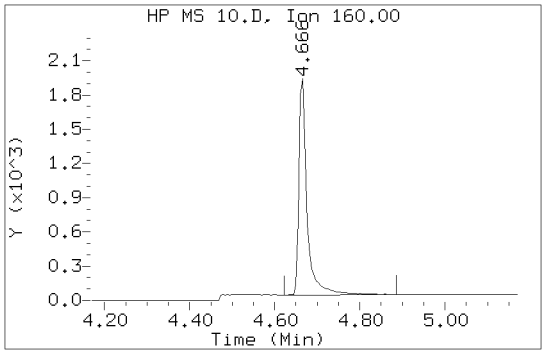
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



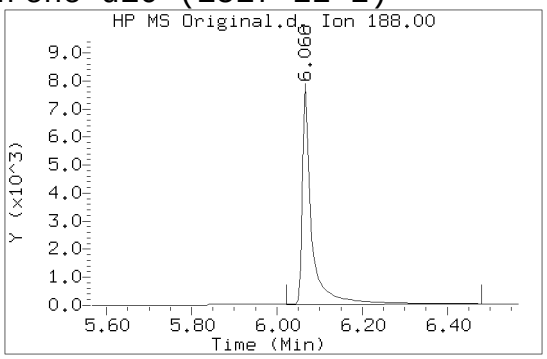
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

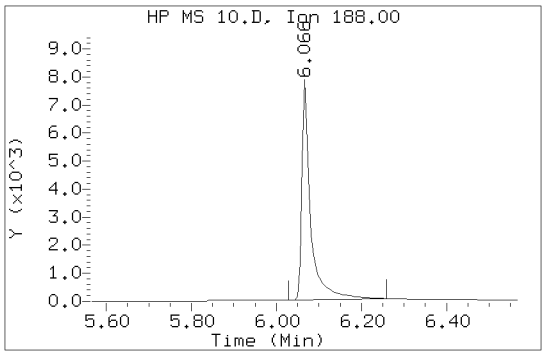
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



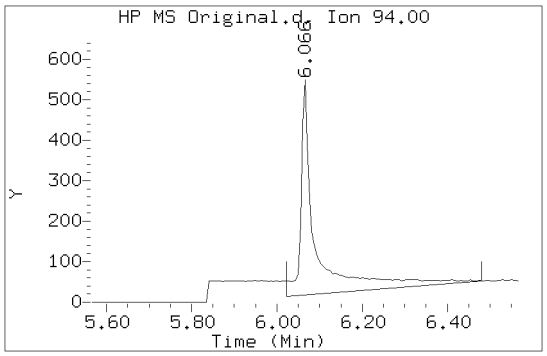
AFTER

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



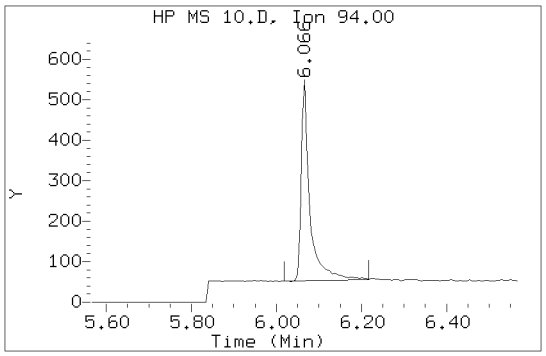
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



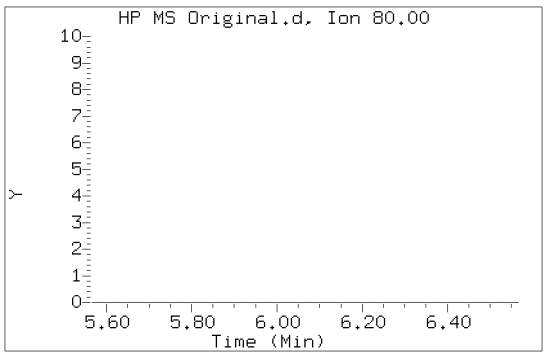
AFTER

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



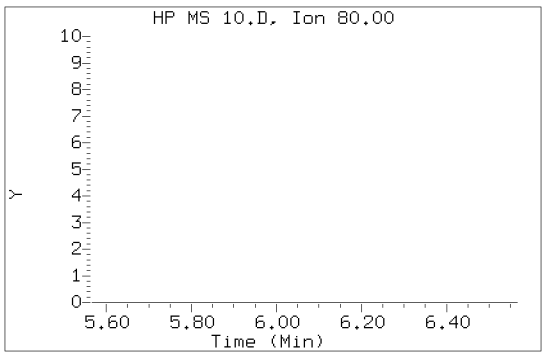
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

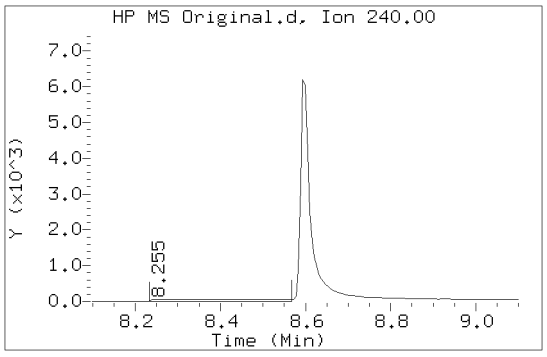


Chrysene-d12 (1719-03-5)

Reason Code:

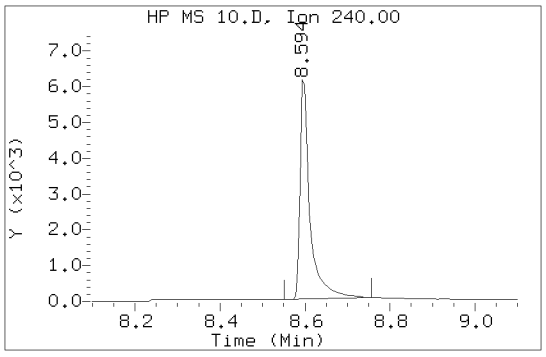
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



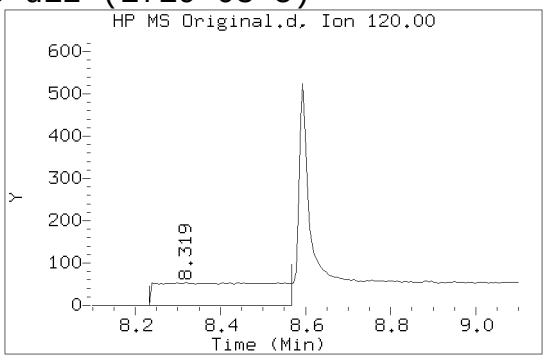
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

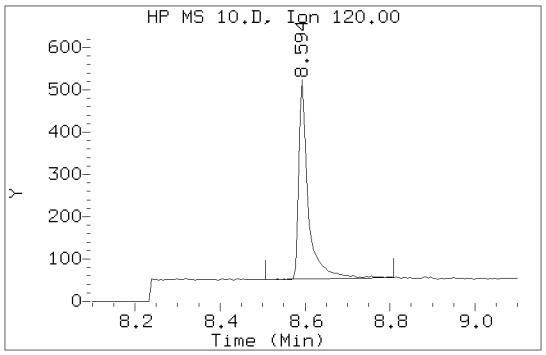
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



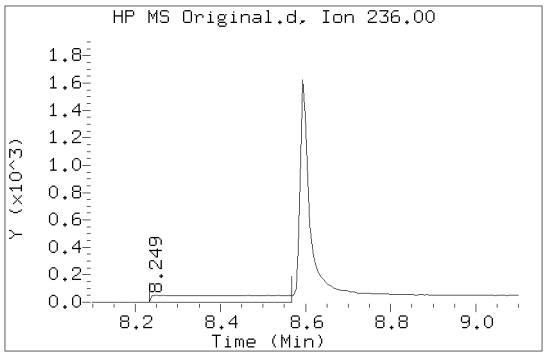
AFTER

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



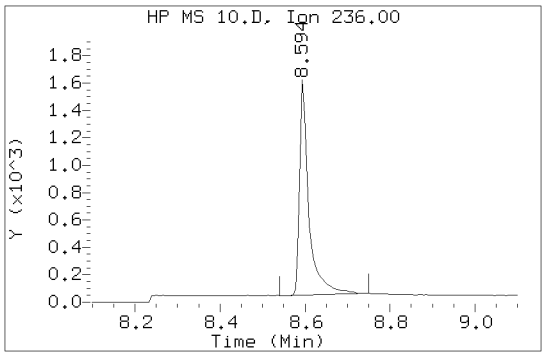
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

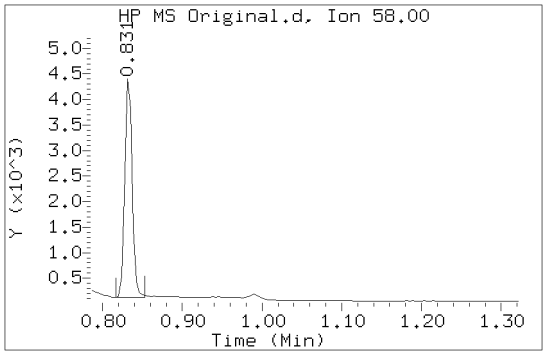


1,4-Dioxane ()

Reason Code:

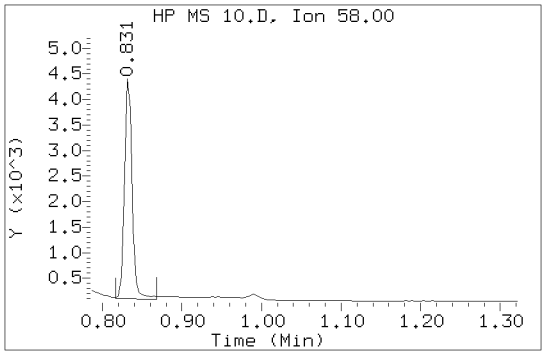
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



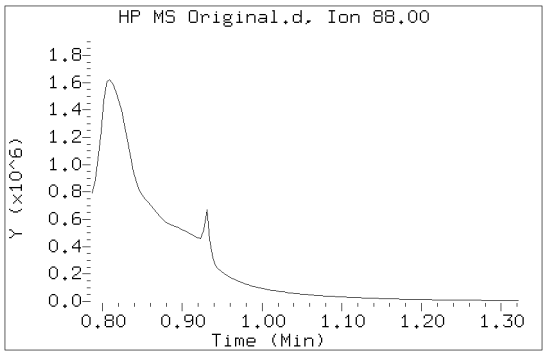
AFTER

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



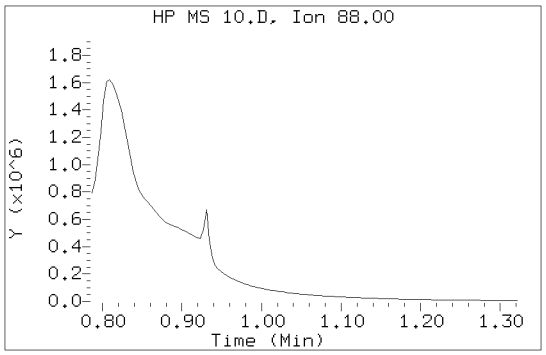
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

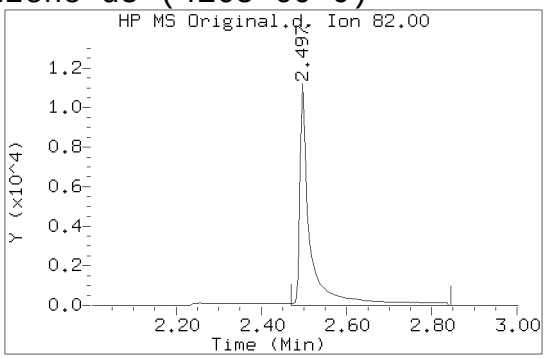


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

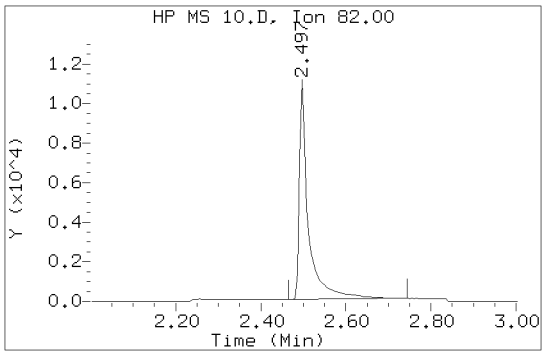
Nitrobenzene-d5 (4165-60-0)

Reason Code:

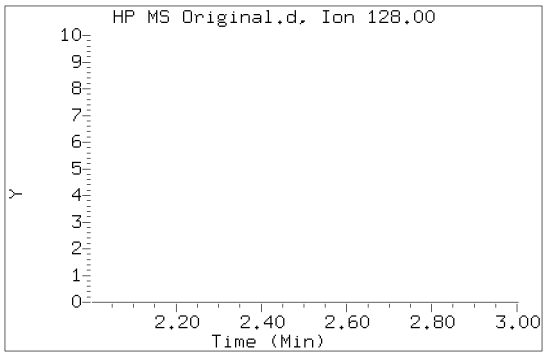
BEFORE
MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



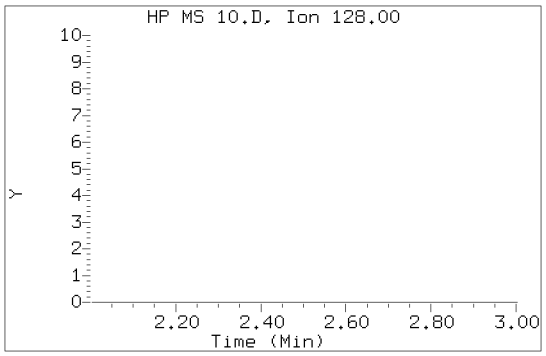
AFTER
MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



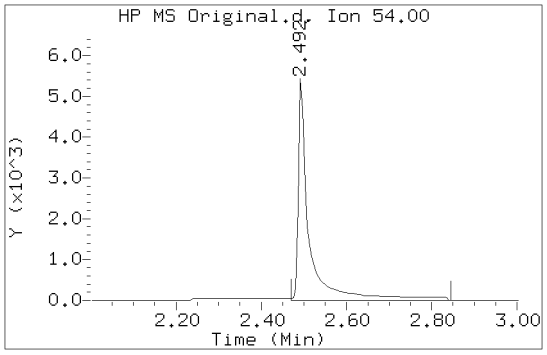
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



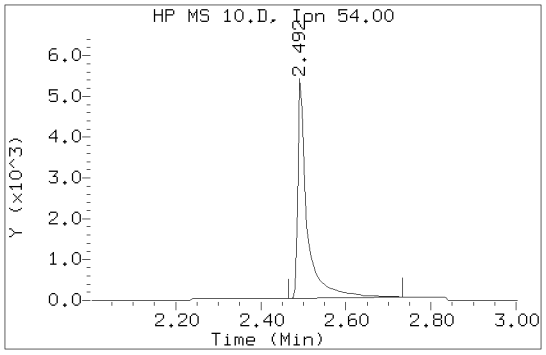
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



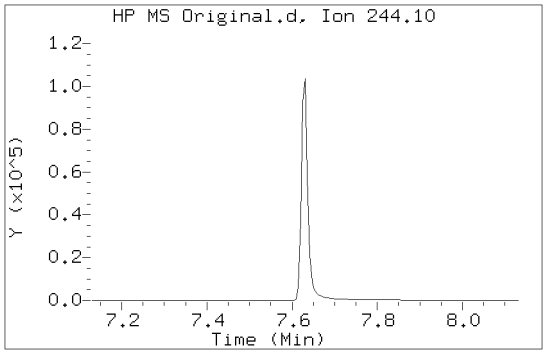
AFTER
MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05



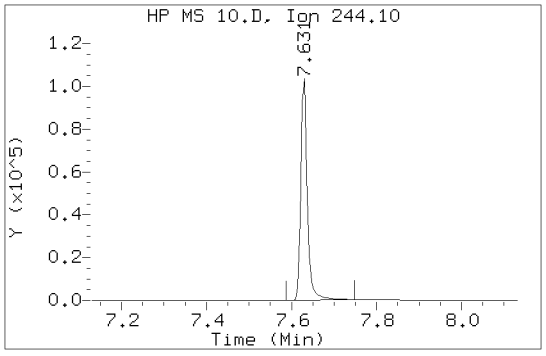
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05

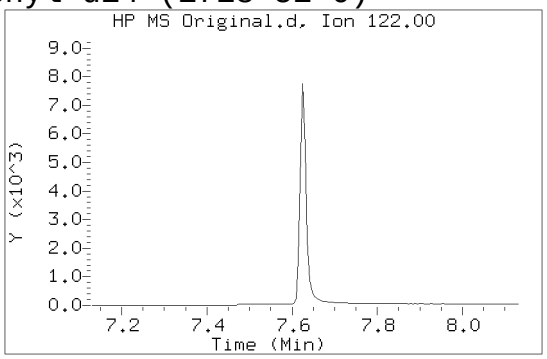


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

4-Terphenyl-d14 (1718-51-0)

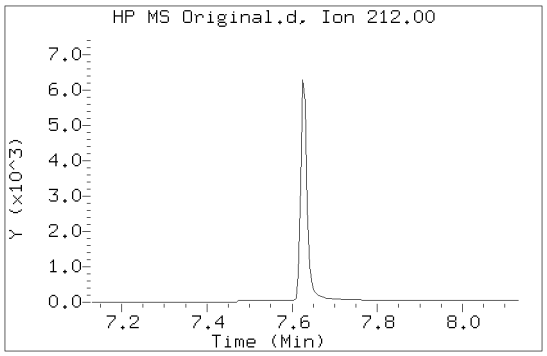
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



BEFORE

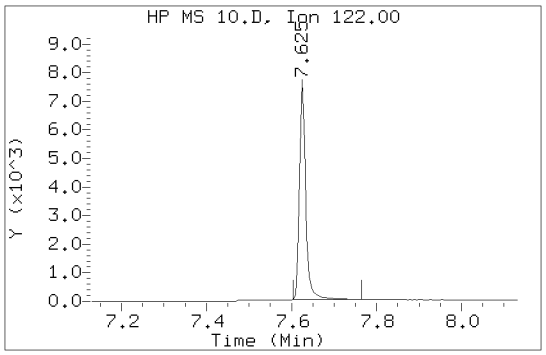
MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



Reason Code:

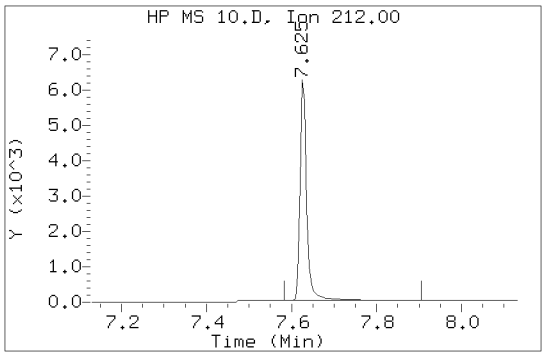
AFTER

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



AFTER

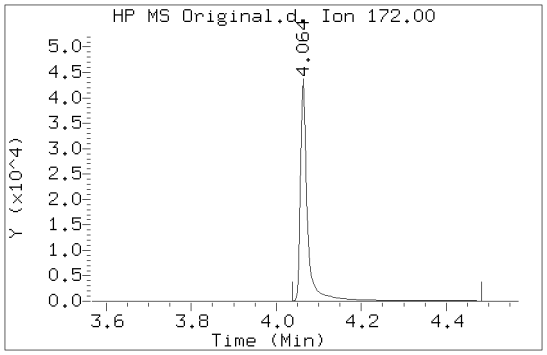
MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05



2-Fluorobiphenyl (321-60-8)

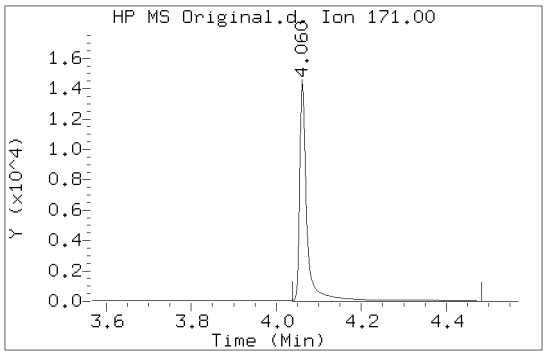
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



BEFORE

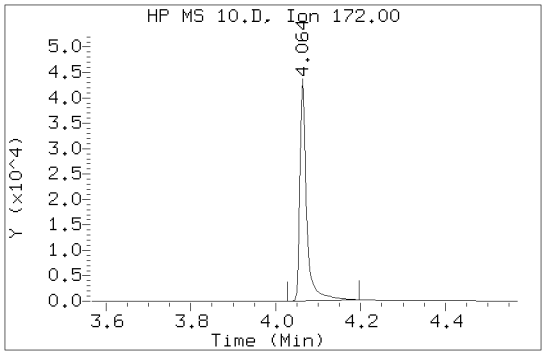
MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



Reason Code:

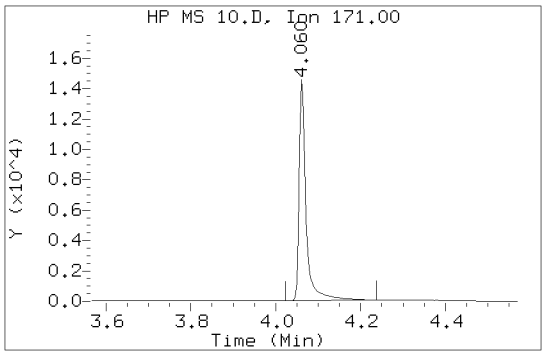
AFTER

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



AFTER

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 25-Jul-2024 11:39

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 25-Jul-2024 11:38 donna.brou Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7019

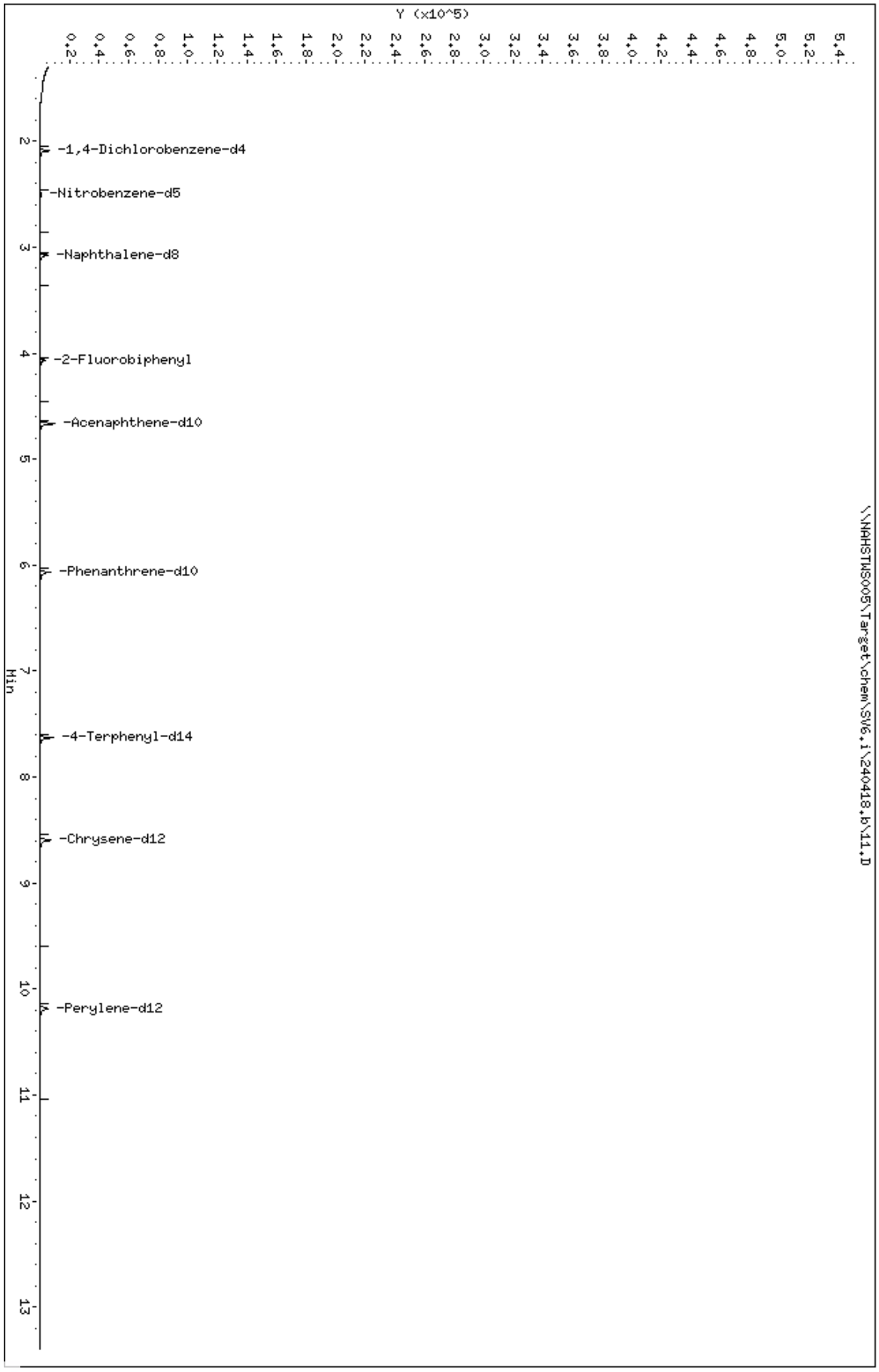
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Date : 18-APR-2024 14:53
Client ID: 14DX ICV-0.08
Sample Info: 14DX ICV-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

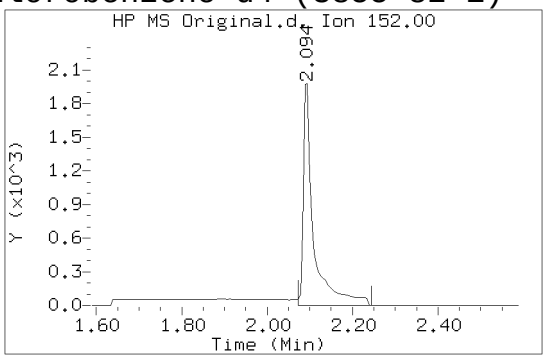
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

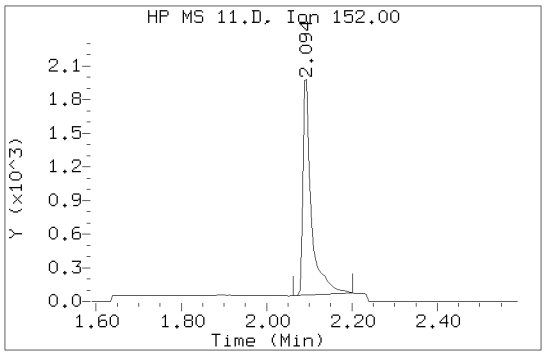
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

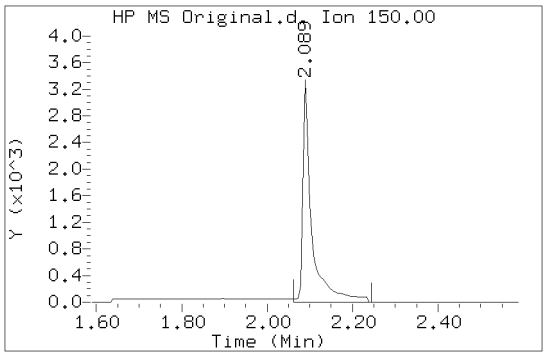
BEFORE
MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



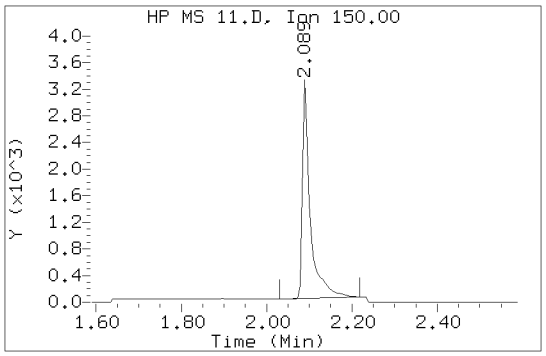
AFTER
MASS
152
AREA
2645
HEIGHT
1921
25-Jul-2024
11:39



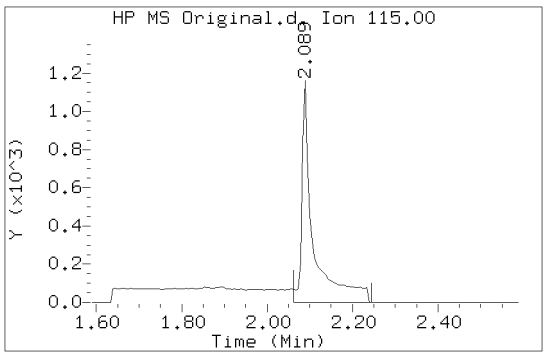
BEFORE
MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



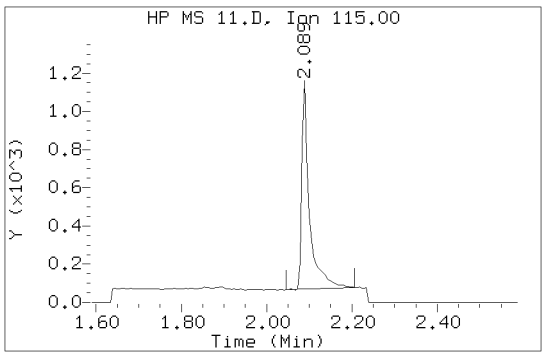
AFTER
MASS
150
AREA
4160
HEIGHT
3281
25-Jul-2024
11:39



BEFORE
MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



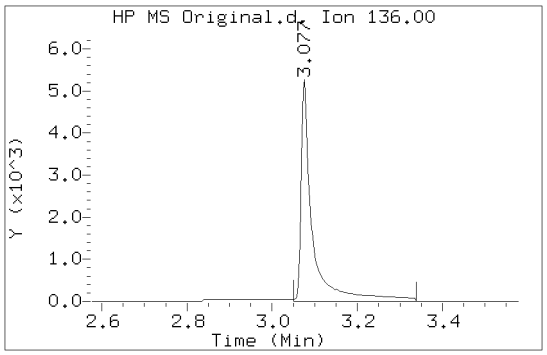
AFTER
MASS
115
AREA
1363
HEIGHT
1092
25-Jul-2024
11:39



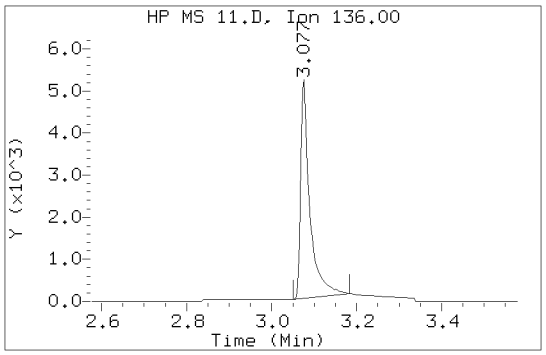
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
136
AREA
7708
HEIGHT
5193
25-Jul-2024
11:39



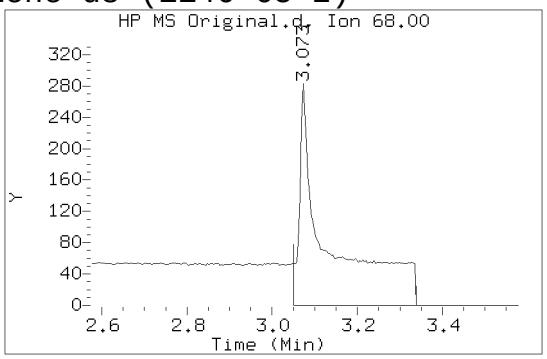
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

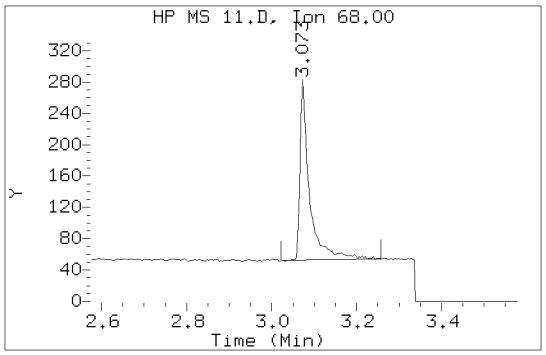
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
68
AREA
353
HEIGHT
230
25-Jul-2024
11:39

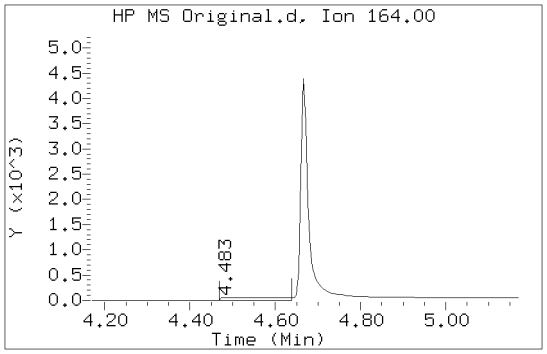


Acenaphthene-d10 (15067-26-2)

Reason Code:

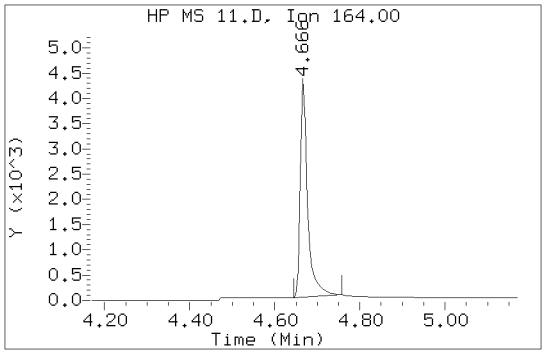
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



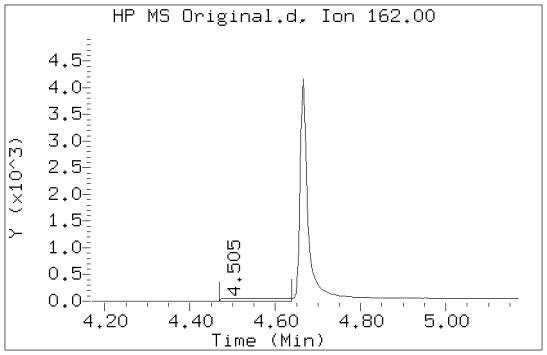
AFTER

MASS
164
AREA
5072
HEIGHT
4329
25-Jul-2024
11:39



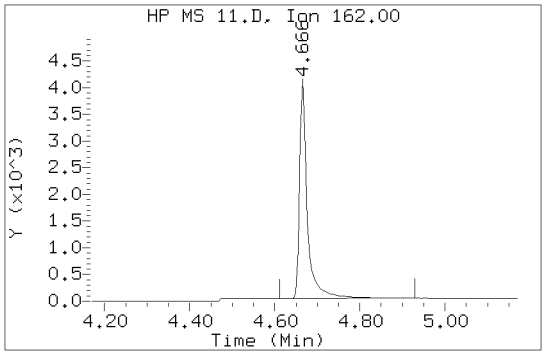
BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



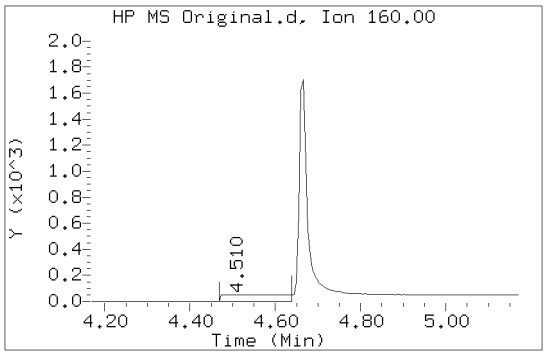
AFTER

MASS
162
AREA
5122
HEIGHT
4113
25-Jul-2024
11:39



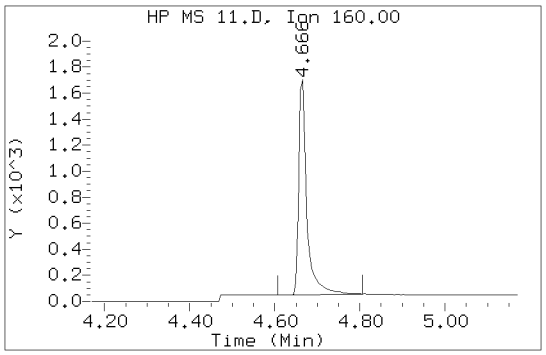
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
160
AREA
2174
HEIGHT
1653
25-Jul-2024
11:39



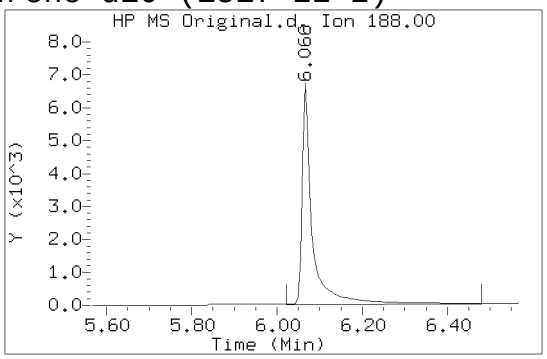
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Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

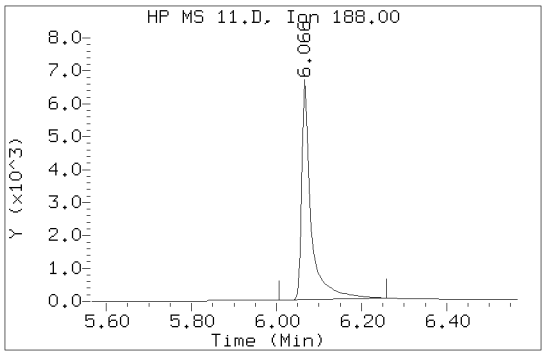
BEFORE

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



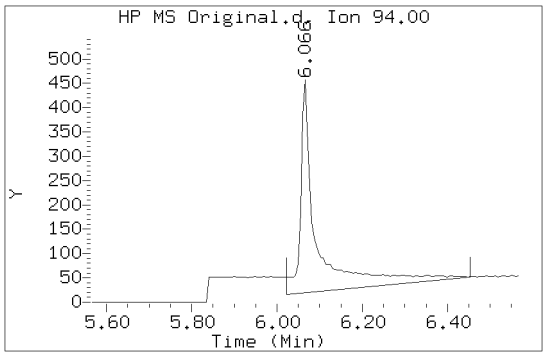
AFTER

MASS
188
AREA
10292
HEIGHT
6674
25-Jul-2024
11:39



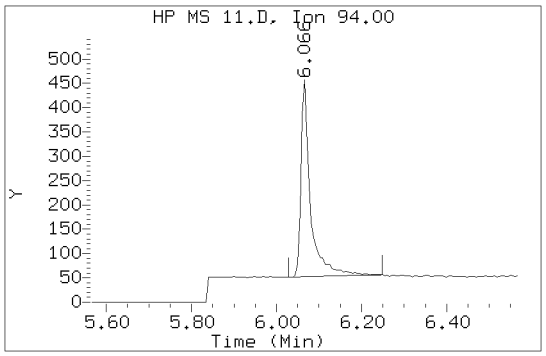
BEFORE

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



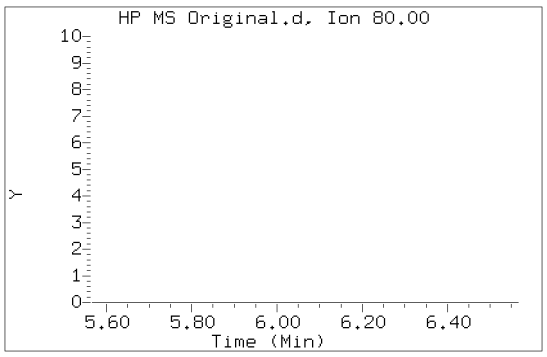
AFTER

MASS
94
AREA
624
HEIGHT
404
25-Jul-2024
11:39



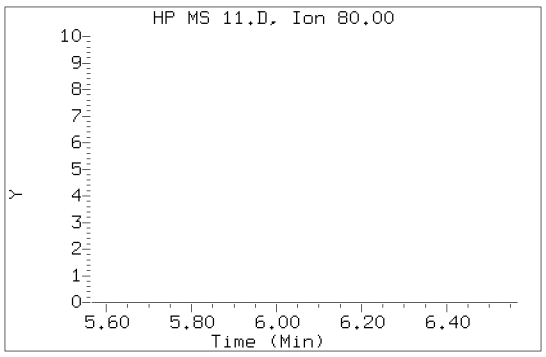
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
25-Jul-2024
11:39

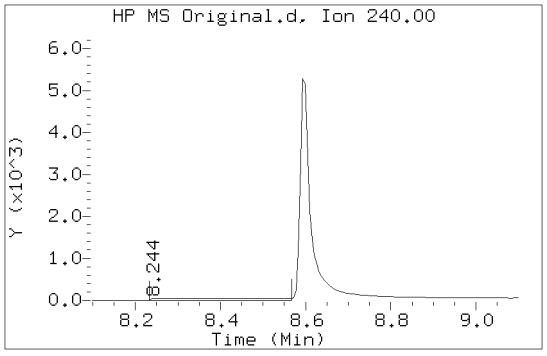


Chrysene-d12 (1719-03-5)

Reason Code:

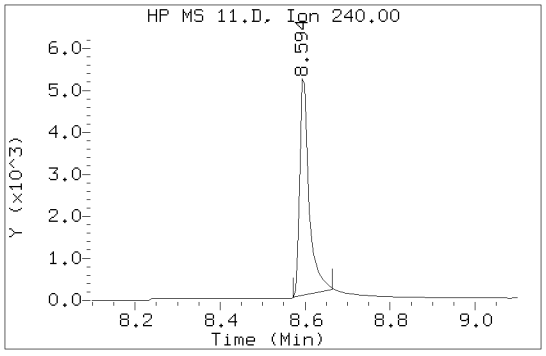
BEFORE

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

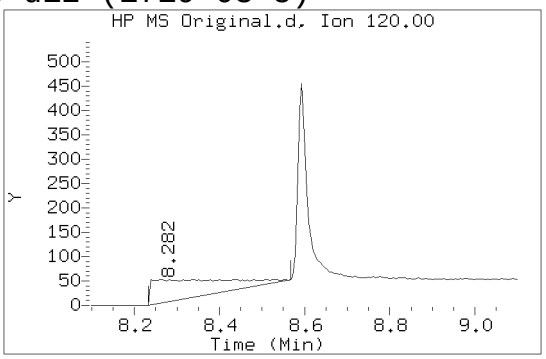
MASS
240
AREA
7884
HEIGHT
5168
25-Jul-2024
11:39



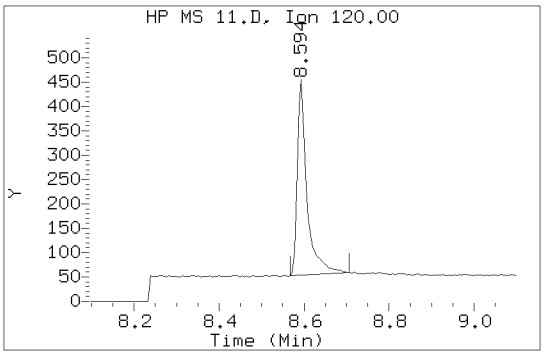
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Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Chrysene-d12 (1719-03-5)

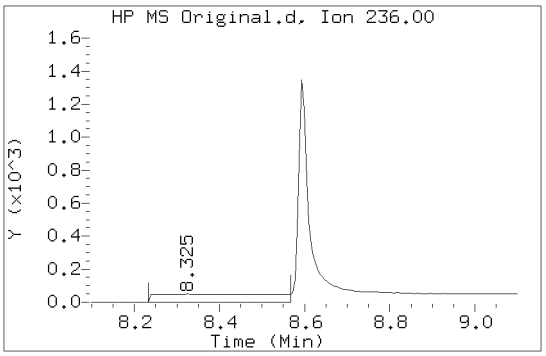
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



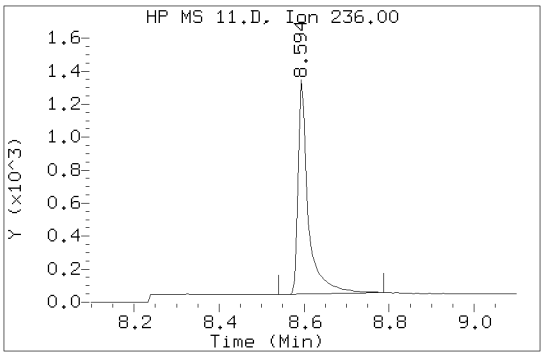
AFTER
MASS
120
AREA
625
HEIGHT
400
25-Jul-2024
11:39



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



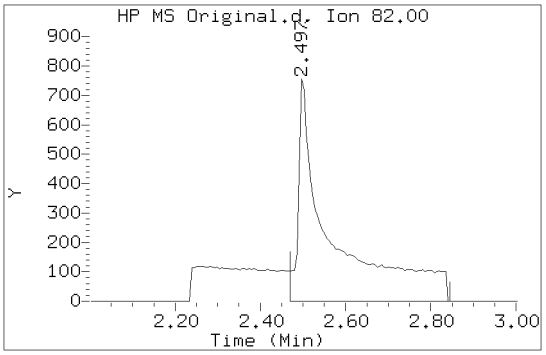
AFTER
MASS
236
AREA
2142
HEIGHT
1296
25-Jul-2024
11:39



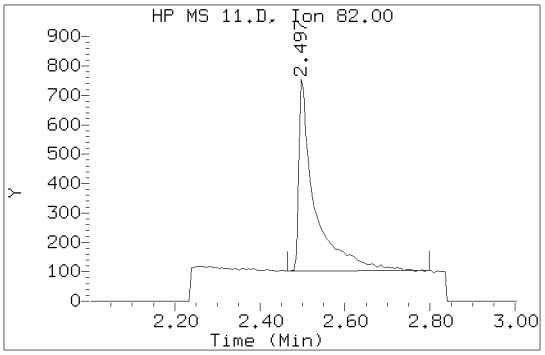
Reason Code:

Nitrobenzene-d5 (4165-60-0)

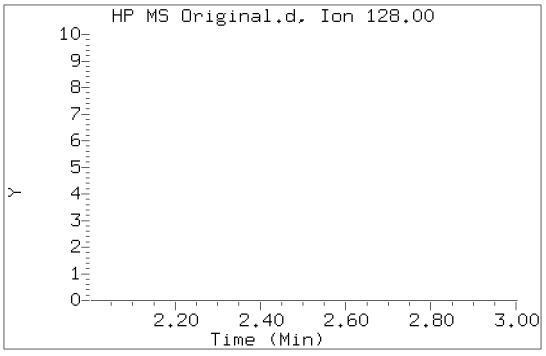
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



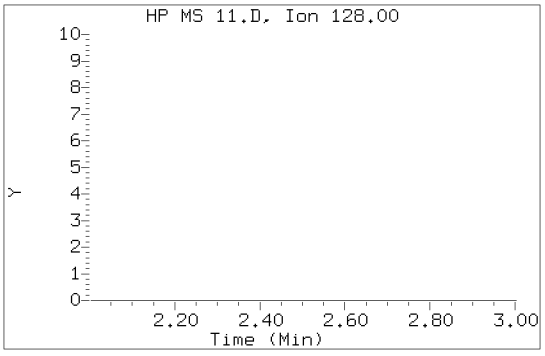
AFTER
MASS
82
AREA
1691
HEIGHT
653
25-Jul-2024
11:39



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
25-Jul-2024
11:39

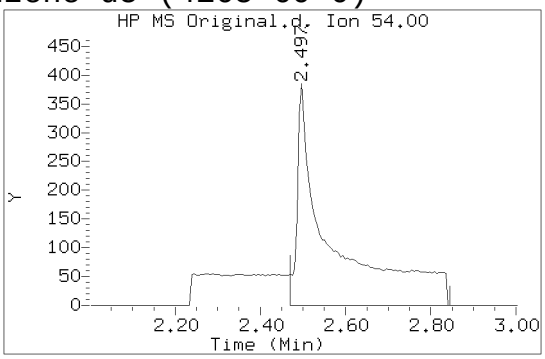


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

BEFORE

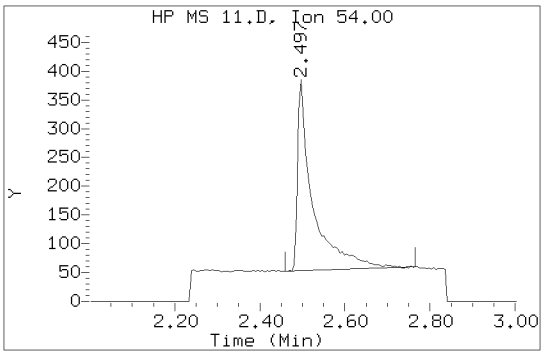
MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



Reason Code:

AFTER

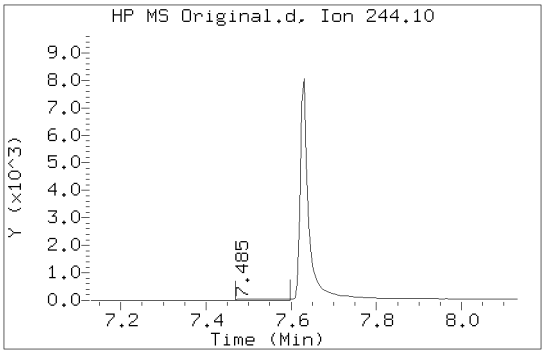
MASS
54
AREA
818
HEIGHT
332
25-Jul-2024
11:39



4-Terphenyl-d14 (1718-51-0)

BEFORE

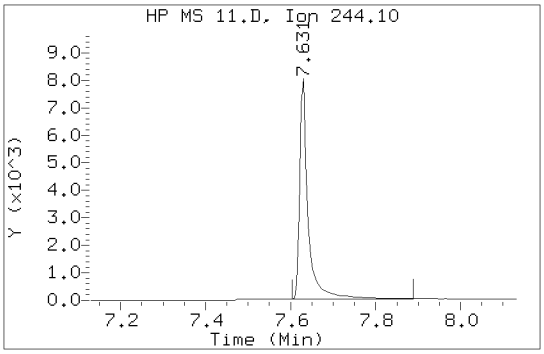
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



Reason Code:

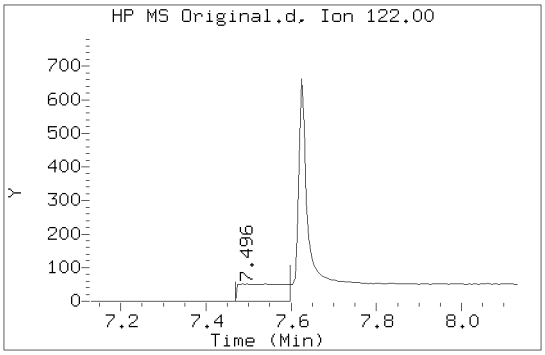
AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
25-Jul-2024
11:39



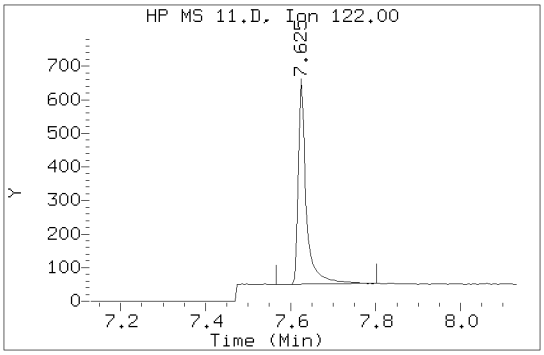
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



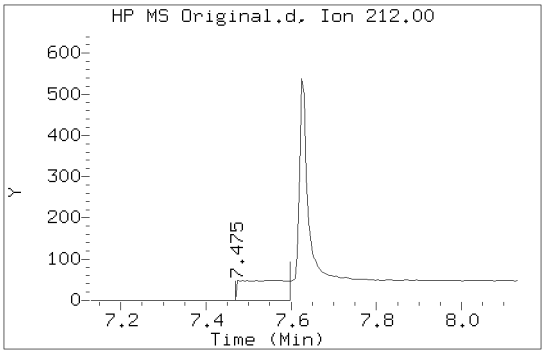
AFTER

MASS
122
AREA
801
HEIGHT
611
25-Jul-2024
11:39



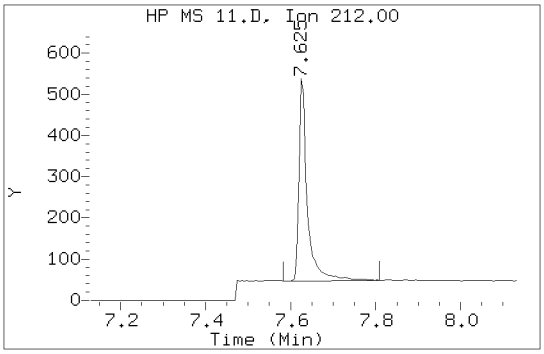
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
25-Jul-2024
11:39



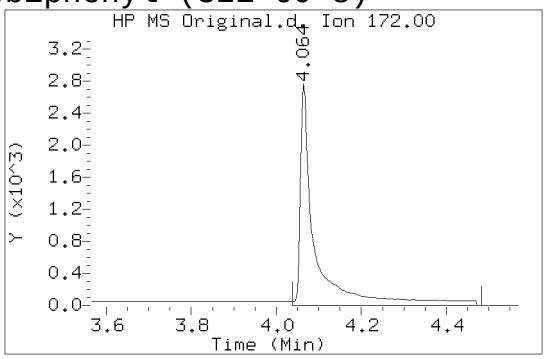
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

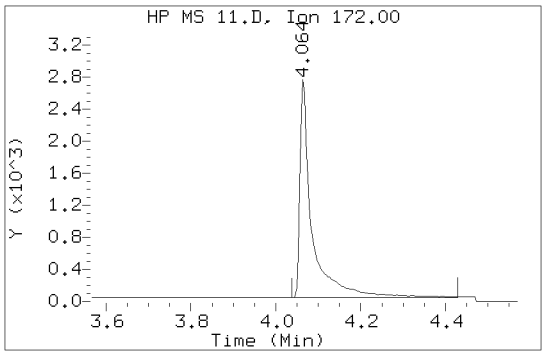
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



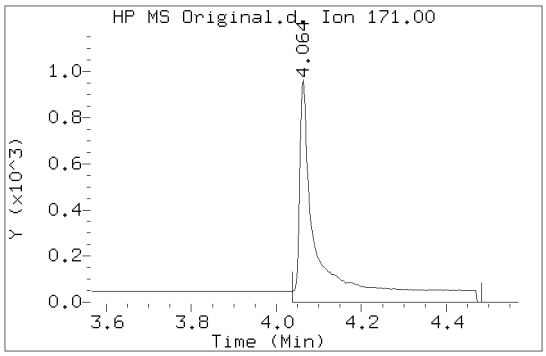
AFTER

MASS
172
AREA
5460
HEIGHT
2724
25-Jul-2024
11:39



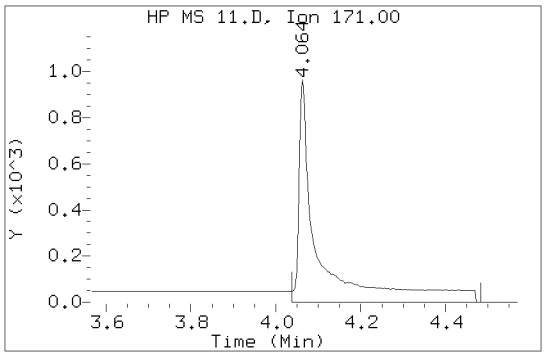
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
25-Jul-2024
11:39



HS24060985 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060985

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:HG04_470770
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	28-Jun-2024 11:10	_8106590	HG
ICB	1	28-Jun-2024 11:12	_8106591	HG
CRA	1	28-Jun-2024 11:13	_8106592	HG
CCV 1	1	28-Jun-2024 11:19	_8106593	HG
CCB 1	1	28-Jun-2024 11:21	_8106594	HG
CCV 2	1	28-Jun-2024 11:58	_8106605	HG
CCB 2	1	28-Jun-2024 11:59	_8106606	HG
CCV 3	1	28-Jun-2024 12:20	_8106617	HG
CCB 3	1	28-Jun-2024 12:22	_8106618	HG
MBLK-214230	1	28-Jun-2024 12:35	_8106625	HG
LCS-214230	1	28-Jun-2024 12:37	_8106626	HG
18CPTMW10DW_061424	1	28-Jun-2024 12:39	_8106627	HG
18CPTMW10DW_061424MS	1	28-Jun-2024 12:40	_8106628	HG
CCV 4	1	28-Jun-2024 12:45	_8106629	HG
CCB 4	1	28-Jun-2024 12:46	_8106630	HG
18CPTMW10DW_061424MSD	1	28-Jun-2024 12:48	_8106631	HG
18CPTMW10DW_061424_a	1	28-Jun-2024 12:50	_8106632	HG
MW9_061424	1	28-Jun-2024 12:51	_8106633	HG
17WW08_061424	1	28-Jun-2024 12:53	_8106634	HG
17WW08_061424_a	1	28-Jun-2024 12:55	_8106635	HG
CCV 5	1	28-Jun-2024 13:06	_8106639	HG
CCB 5	1	28-Jun-2024 13:07	_8106640	HG
CCV 6	1	28-Jun-2024 13:43	_8106771	HG
CCB 6	1	28-Jun-2024 13:44	_8106772	HG
CCV 7	1	28-Jun-2024 14:15	_8106780	HG
CCB 7	1	28-Jun-2024 14:17	_8106781	HG
CCV 8	1	28-Jun-2024 14:37	_8106792	HG
CCB 8	1	28-Jun-2024 14:39	_8106793	HG
CCV 9	1	28-Jun-2024 15:07	_8106804	HG
CCB 9	1	28-Jun-2024 15:09	_8106805	HG
CCV 10	1	28-Jun-2024 15:31	_8106890	HG
CCB 10	1	28-Jun-2024 15:33	_8106891	HG
CCV 11	1	28-Jun-2024 15:55	_8106902	HG
CCB 11	1	28-Jun-2024 15:57	_8106903	HG
CCV 12	1	28-Jun-2024 16:10	_8106907	HG
CCB 12	1	28-Jun-2024 16:12	_8106913	HG
CRA	1	28-Jun-2024 16:13	_8106914	HG

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470725_Tune	1	28-Jun-2024 00:00	ICPMS07_470725_Tune_1	
CAL BLK	1	28-Jun-2024 10:48	010CALB.d_8105699	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	28-Jun-2024 10:51	011CALS.d_8105700	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	28-Jun-2024 10:54	012CALS.d_8105701	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	28-Jun-2024 10:56	013CALS.d_8105702	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	28-Jun-2024 10:59	014CALS.d_8105703	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	28-Jun-2024 11:02	015CALS.d_8105704	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	28-Jun-2024 11:10	017_ICV.d_8105706	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	28-Jun-2024 11:15	019LCV2.d_8105708	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	28-Jun-2024 11:17	020LCV5.d_8105709	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	28-Jun-2024 11:20	021_ICB.d_8105710	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	28-Jun-2024 11:25	023ICSA.d_8105712	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	28-Jun-2024 11:27	024ICSB.d_8105713	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	28-Jun-2024 18:26	165CALB.d_8107555	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	28-Jun-2024 18:28	166CALS.d_8107556	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	28-Jun-2024 18:31	167CALS.d_8107557	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	28-Jun-2024 18:33	168CALS.d_8107558	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	28-Jun-2024 18:36	169CALS.d_8107559	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	28-Jun-2024 18:39	170CALS.d_8107560	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	28-Jun-2024 18:49	172_ICV.d_8107562	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	28-Jun-2024 18:54	174LCV2.d_8107564	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	28-Jun-2024 18:56	175LCV5.d_8107565	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	28-Jun-2024 18:59	176_ICB.d_8107566	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	28-Jun-2024 19:40	179_CCV.d_8108620	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	28-Jun-2024 19:43	180_CCB.d_8108621	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-214140	1	28-Jun-2024 19:45	181SMPL.d_8108622	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-214140	1	28-Jun-2024 19:47	182SMPL.d_8108623	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	5	28-Jun-2024 19:52	184SMPL.d_8108625	AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	28-Jun-2024 19:55	185SMPL.d_8108626	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	28-Jun-2024 19:57	186SMPL.d_8108627	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	28-Jun-2024 20:00	187SMPL.d_8108628	AG AL AS BA BE CA CD CO CR CU K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985
Start Date: 28-Jun-2024 End Date: 28-Jun-2024

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
CCV 2	1	28-Jun-2024 20:04	189_CCV.d_8108630	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	28-Jun-2024 20:07	190_CCB.d_8108631	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW10DW_061424	1	28-Jun-2024 20:09	191SMPL.d_8108632	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW10DW_061424_a	1	28-Jun-2024 20:12	192SMPL.d_8108633	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW9_061424	1	28-Jun-2024 20:14	193SMPL.d_8108634	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
17WW08_061424	1	28-Jun-2024 20:17	194SMPL.d_8108635	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
17WW08_061424_a	1	28-Jun-2024 20:19	195SMPL.d_8108636	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 3	1	28-Jun-2024 20:22	196_CCV.d_8108637	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	28-Jun-2024 20:24	197_CCB.d_8108638	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	28-Jun-2024 20:41	204_CCV.d_8108645	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	28-Jun-2024 20:44	205_CCB.d_8108646	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	28-Jun-2024 20:58	211_CCV.d_8108652	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	28-Jun-2024 21:01	212_CCB.d_8108653	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:ICPMS07_470915
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470915_Tune	1	01-Jul-2024 00:00	ICPMS07_470915_Tune_1	
CAL BLK	1	01-Jul-2024 10:13	010CALB.d_8110889	FE NA
2/10/200	1	01-Jul-2024 10:15	011CALS.d_8110890	FE NA
5/25/500	1	01-Jul-2024 10:18	012CALS.d_8110891	FE NA
10/50/100	1	01-Jul-2024 10:21	013CALS.d_8110892	FE NA
100/500/10K	1	01-Jul-2024 10:23	014CALS.d_8110893	FE NA
200/1000/20K	1	01-Jul-2024 10:27	015CALS.d_8110894	FE NA
100/500/10K	1	01-Jul-2024 10:40	020CALS.d_8110899	FE NA
ICV	1	01-Jul-2024 10:48	022_ICV.d_8110901	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	01-Jul-2024 10:53	024LCV2.d_8110903	FE NA
LLICV5	1	01-Jul-2024 10:55	025LCV5.d_8110904	FE NA
ICB	1	01-Jul-2024 10:57	026_ICB.d_8110905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	01-Jul-2024 11:04	028ICSA.d_8110915	FE NA
ICSAB	1	01-Jul-2024 11:06	029ICSB.d_8110916	FE NA
CCV 1	1	01-Jul-2024 11:25	034_CCV.d_8111146	FE NA
CCB 1	1	01-Jul-2024 11:28	035_CCB.d_8111147	FE NA
ZZZZZZSD	50	01-Jul-2024 11:34	037SMPL.d_8111149	FE
ZZZZZZPDS	10	01-Jul-2024 11:36	038SMPL.d_8111150	FE
17WW08_061424	20	01-Jul-2024 11:39	039SMPL.d_8111151	NA
17WW08_061424_a	20	01-Jul-2024 11:41	040SMPL.d_8111152	NA
CCV 2	1	01-Jul-2024 11:56	046_CCV.d_8111187	FE NA
CCB 2	1	01-Jul-2024 11:58	047_CCB.d_8111188	FE NA

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: HG04_470770
Instrument: HG04
Method: SW7470A

ICV	Date: 28-Jun-2024 11:10	Seq: 8106590	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.18	104	90-110	

CCV1	Date: 28-Jun-2024 11:19	Seq: 8106593	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

CCV2	Date: 28-Jun-2024 11:58	Seq: 8106605	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV3	Date: 28-Jun-2024 12:20	Seq: 8106617	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.83	97	90-110	

CCV4	Date: 28-Jun-2024 12:45	Seq: 8106629	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

CCV5	Date: 28-Jun-2024 13:06	Seq: 8106639	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 28-Jun-2024 13:43	Seq: 8106771	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV7	Date: 28-Jun-2024 14:15	Seq: 8106780	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV8	Date: 28-Jun-2024 14:37	Seq: 8106792	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.88	98	90-110	

CCV9	Date: 28-Jun-2024 15:07	Seq: 8106804	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.88	98	90-110	

CCV10	Date: 28-Jun-2024 15:31	Seq: 8106890	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

CCV11	Date: 28-Jun-2024 15:55	Seq: 8106902	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV12	Date: 28-Jun-2024 16:10	Seq: 8106907	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

ICV Date: 28-Jun-2024 11:10 Seq: 8105706 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	106.147	106	90-110	
Antimony	100	103.492	103	90-110	
Arsenic	100	105.762	106	90-110	
Barium	100	101.896	102	90-110	
Beryllium	100	106.066	106	90-110	
Cadmium	100	103.99	104	90-110	
Calcium	10000	10310.509	103	90-110	
Chromium	100	104.661	105	90-110	
Cobalt	100	105.784	106	90-110	
Copper	100	104.68	105	90-110	
Iron	10000	10287.363	103	90-110	
Lead	100	102.998	103	90-110	
Magnesium	10000	10307.876	103	90-110	
Manganese	100	104.926	105	90-110	
Nickel	100	105.465	105	90-110	
Potassium	10000	10258.83	103	90-110	
Selenium	100	106.554	107	90-110	
Silver	100	104.173	104	90-110	
Sodium	10000	10293.537	103	90-110	
Thallium	100	105.131	105	90-110	
Vanadium	100	105.553	106	90-110	
Zinc	100	104.98	105	90-110	

ICV Date: 28-Jun-2024 18:49 Seq: 8107562 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.565	103	90-110	
Antimony	100	101.918	102	90-110	
Arsenic	100	101.924	102	90-110	
Barium	100	99.353	99	90-110	
Beryllium	100	102.861	103	90-110	
Cadmium	100	102.564	103	90-110	
Calcium	10000	10095.782	101	90-110	
Chromium	100	100.276	100	90-110	
Cobalt	100	102.238	102	90-110	
Copper	100	99.844	100	90-110	
Iron	10000	9976.103	100	90-110	
Lead	100	101.744	102	90-110	
Magnesium	10000	10053.926	101	90-110	
Manganese	100	101.295	101	90-110	
Nickel	100	102.335	102	90-110	
Potassium	10000	9993.594	100	90-110	
Selenium	100	101.73	102	90-110	
Silver	100	102.862	103	90-110	
Sodium	10000	9973.239	100	90-110	
Thallium	100	104.028	104	90-110	
Vanadium	100	101.037	101	90-110	
Zinc	100	101.037	101	90-110	

CCV1 Date: 28-Jun-2024 19:40 Seq: 8108620 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.76	102	90-110	
Antimony	100	102.532	103	90-110	
Arsenic	100	101.351	101	90-110	
Barium	100	98.331	98	90-110	
Beryllium	100	100.544	101	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV1 Date: 28-Jun-2024 19:40 Seq: 8108620 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	100.071	100	90-110	
Calcium	10000	10147.677	101	90-110	
Chromium	100	99.574	100	90-110	
Cobalt	100	101.133	101	90-110	
Copper	100	99.043	99	90-110	
Iron	10000	9972.965	100	90-110	
Lead	100	98.565	99	90-110	
Magnesium	10000	10151.568	102	90-110	
Manganese	100	100.107	100	90-110	
Nickel	100	100.759	101	90-110	
Potassium	10000	10070.265	101	90-110	
Selenium	100	101.973	102	90-110	
Silver	100	100.861	101	90-110	
Sodium	10000	9997.113	100	90-110	
Thallium	100	98.251	98	90-110	
Vanadium	100	100.569	101	90-110	
Zinc	100	101.555	102	90-110	

CCV2 Date: 28-Jun-2024 20:04 Seq: 8108630 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.291	100	90-110	
Antimony	100	103.949	104	90-110	
Arsenic	100	102.172	102	90-110	
Barium	100	99.787	100	90-110	
Beryllium	100	98.121	98	90-110	
Cadmium	100	102.094	102	90-110	
Calcium	10000	10145.376	101	90-110	
Chromium	100	100.485	100	90-110	
Cobalt	100	102.543	103	90-110	
Copper	100	100.233	100	90-110	
Iron	10000	10036.94	100	90-110	
Lead	100	101.025	101	90-110	
Magnesium	10000	10075.223	101	90-110	
Manganese	100	101.094	101	90-110	
Nickel	100	102.756	103	90-110	
Potassium	10000	10050.889	101	90-110	
Selenium	100	102.148	102	90-110	
Silver	100	102.082	102	90-110	
Sodium	10000	9990.018	100	90-110	
Thallium	100	100.082	100	90-110	
Vanadium	100	101.863	102	90-110	
Zinc	100	101.653	102	90-110	

CCV3 Date: 28-Jun-2024 20:22 Seq: 8108637 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.671	103	90-110	
Antimony	100	104.758	105	90-110	
Arsenic	100	103.704	104	90-110	
Barium	100	100.222	100	90-110	
Beryllium	100	96.896	97	90-110	
Cadmium	100	102.233	102	90-110	
Calcium	10000	10378.361	104	90-110	
Chromium	100	101.73	102	90-110	
Cobalt	100	104.175	104	90-110	
Copper	100	101.801	102	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV3 Date: 28-Jun-2024 20:22 Seq: 8108637 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10251.8	103	90-110	
Lead	100	102.134	102	90-110	
Magnesium	10000	10202.055	102	90-110	
Manganese	100	102.624	103	90-110	
Nickel	100	104.333	104	90-110	
Potassium	10000	10309.927	103	90-110	
Selenium	100	104.535	105	90-110	
Silver	100	103.306	103	90-110	
Sodium	10000	10237.128	102	90-110	
Thallium	100	101.03	101	90-110	
Vanadium	100	102.153	102	90-110	
Zinc	100	102.566	103	90-110	

CCV4 Date: 28-Jun-2024 20:41 Seq: 8108645 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.742	104	90-110	
Antimony	100	107.489	107	90-110	
Arsenic	100	103.477	103	90-110	
Barium	100	100.333	100	90-110	
Beryllium	100	96.763	97	90-110	
Cadmium	100	101.121	101	90-110	
Calcium	10000	10240.366	102	90-110	
Chromium	100	101.874	102	90-110	
Cobalt	100	104.325	104	90-110	
Copper	100	101.666	102	90-110	
Iron	10000	10263.082	103	90-110	
Lead	100	101.671	102	90-110	
Magnesium	10000	10185.584	102	90-110	
Manganese	100	102.276	102	90-110	
Nickel	100	104.598	105	90-110	
Potassium	10000	10179.012	102	90-110	
Selenium	100	102.09	102	90-110	
Silver	100	102.529	103	90-110	
Sodium	10000	10162.204	102	90-110	
Thallium	100	101.55	102	90-110	
Vanadium	100	101.731	102	90-110	
Zinc	100	103.144	103	90-110	

CCV5 Date: 28-Jun-2024 20:58 Seq: 8108652 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.303	103	90-110	
Antimony	100	106.987	107	90-110	
Arsenic	100	104.204	104	90-110	
Barium	100	101.544	102	90-110	
Beryllium	100	94.898	95	90-110	
Cadmium	100	102.309	102	90-110	
Calcium	10000	10394.613	104	90-110	
Chromium	100	102.034	102	90-110	
Cobalt	100	104.648	105	90-110	
Copper	100	101.887	102	90-110	
Iron	10000	10286.069	103	90-110	
Lead	100	102.899	103	90-110	
Magnesium	10000	10245.077	102	90-110	
Manganese	100	101.488	101	90-110	
Nickel	100	104.563	105	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCV5 | Date: 28-Jun-2024 20:58 | Seq: 8108652 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10375.91	104	90-110	
Selenium	100	104.274	104	90-110	
Silver	100	105.233	105	90-110	
Sodium	10000	10319.392	103	90-110	
Thallium	100	102.238	102	90-110	
Vanadium	100	102.869	103	90-110	
Zinc	100	103.165	103	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

ICV Date: 01-Jul-2024 10:48 Seq: 8110901 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	9941.715	99	90-110	
Sodium	10000	10150.891	102	90-110	

CCV1 Date: 01-Jul-2024 11:25 Seq: 8111146 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10121.723	101	90-110	
Sodium	10000	10274.87	103	90-110	

CCV2 Date: 01-Jul-2024 11:56 Seq: 8111187 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10003.9	100	90-110	
Sodium	10000	10227.837	102	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: HG04_470770
Instrument: HG04
Method: SW7470A

ICB	Date: 28-Jun-2024 11:12		Seq: 8106591	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 28-Jun-2024 11:21		Seq: 8106594	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 28-Jun-2024 11:59		Seq: 8106606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB3	Date: 28-Jun-2024 12:22		Seq: 8106618	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-214230	Date: 28-Jun-2024 12:35		Seq: 8106625	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 28-Jun-2024 12:46		Seq: 8106630	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 28-Jun-2024 13:07		Seq: 8106640	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 28-Jun-2024 13:44		Seq: 8106772	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 28-Jun-2024 14:17		Seq: 8106781	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 28-Jun-2024 14:39		Seq: 8106793	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 28-Jun-2024 15:09		Seq: 8106805	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB10	Date: 28-Jun-2024 15:33		Seq: 8106891	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB11	Date: 28-Jun-2024 15:57		Seq: 8106903	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB12	Date: 28-Jun-2024 16:12		Seq: 8106913	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 28-Jun-2024 11:20	Seq: 8105710	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	10	1.8	10	U
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

ICCB1	Date: 28-Jun-2024 18:59	Seq: 8107566	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	2.111	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB2	Date: 28-Jun-2024 19:43	Seq: 8108621	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 28-Jun-2024 19:43		Seq: 8108621	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	-0.64	0.6	5	J	
Zinc	4	2	4	U	

MBLK-214140	Date: 28-Jun-2024 19:45		Seq: 8108622	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 28-Jun-2024 20:07		Seq: 8108631	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 28-Jun-2024 20:07		Seq: 8108631	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	25.12	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	-0.681	0.6	5	J	
Zinc	4	2	4	U	

CCB4	Date: 28-Jun-2024 20:24		Seq: 8108638	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	98.68	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	-0.722	0.6	5	J	
Zinc	4	2	4	U	

CCB5	Date: 28-Jun-2024 20:44		Seq: 8108646	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470725
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 28-Jun-2024 20:44		Seq: 8108646	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	80.95	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	-0.724	0.6	5	J	
Zinc	4	2	4	U	

CCB6	Date: 28-Jun-2024 21:01		Seq: 8108653	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	146.7	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	-0.741	0.6	5	J	
Zinc	4	2	4	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 01-Jul-2024 10:57		Seq: 8110905	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Sodium	-31.61	14	200	J	

CCB1	Date: 01-Jul-2024 11:28		Seq: 8111147	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Sodium	-40.9	14	200	J	

CCB2	Date: 01-Jul-2024 11:58		Seq: 8111188	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Sodium	-46.66	14	200	J	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID:ICPMS07_470725
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 28-Jun-2024 11:25	Seq: 8105712	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	106800	107	
Antimony		0.113	0	
Arsenic		0.38	0	
Barium		0.555	0	
Beryllium		0.031	0	
Cadmium		0.702	0	
Calcium	100000	100100	100	
Chromium		0.867	0	
Cobalt		1.061	0	
Copper		0.824	0	
Iron	100000	106100	106	
Lead		0.933	0	
Magnesium	100000	106100	106	
Manganese		1.915	0	
Nickel		1.184	0	
Potassium	100000	105900	106	
Selenium		0	0	
Silver		0.021	0	
Sodium	100000	107400	107	
Thallium		0.004	0	
Vanadium		-0.194	0	
Zinc		3.084	0	

ICSAB	Date: 28-Jun-2024 11:27	Seq: 8105713	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	104700	104	
Antimony	100	105.3	105	
Arsenic	100	109.2	109	
Barium	100	106.7	107	
Beryllium	100	92.48	92.5	
Cadmium	100	105.3	105	
Calcium	110000	108200	98.3	
Chromium	100	104.2	104	
Cobalt	100	102.2	102	
Copper	100	100.4	100	
Iron	110000	113300	103	
Lead	100	108.1	108	
Magnesium	110000	113600	103	
Manganese	100	106	106	
Nickel	100	101.8	102	
Potassium	110000	114300	104	
Selenium	100	109.8	110	
Silver	100	103.7	104	
Sodium	110000	115000	105	
Thallium	100	93.56	93.6	
Vanadium	100	107.1	107	
Zinc	100	106.4	106	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Run ID: ICPMS07_470915
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 01-Jul-2024 11:04	Seq: 8110915	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Iron	100000	103600	104	
Sodium	100000	108600	109	

ICSAB	Date: 01-Jul-2024 11:06	Seq: 8110916	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Iron	110000	110800	101	
Sodium	110000	116700	106	

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 12:48
Date Extracted: 28-Jun-2024 07:30
Units: ug/L

Matrix Spike: HS24060985-01MS
Client Sample ID: 18CPTMW10DW_061424

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.950	5.000	98.8	4.900	5.000	97.8	82-119	1.02	20

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 19:57
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Matrix Spike: HS24061196-10MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	13.21	104.7	100.0	91.5	109.6	100.0	96.4	84-117	4.58	20
Antimony	5.000	46.75	50.00	93.2	48.33	50.00	96.4	85-117	3.33	20
Arsenic	0.6330	46.48	50.00	91.7	47.32	50.00	93.4	84-116	1.80	20
Barium	641.5	668.4	50.00	53.8	667.2	50.00	51.4	86-114	0.179	20
Beryllium	2.000	41.85	50.00	83.6	42.83	50.00	85.6	83-121	2.33	20
Cadmium	2.000	45.57	50.00	90.9	45.97	50.00	91.7	87-115	0.870	20
Calcium	23670	27420	5000	75.0	28260	5000	91.9	87-118	3.02	20
Chromium	0.7100	44.54	50.00	87.7	46.51	50.00	91.6	85-116	4.33	20
Cobalt	1.239	45.18	50.00	87.9	47.00	50.00	91.5	86-115	3.96	20
Copper	5.000	46.54	50.00	91.6	48.68	50.00	95.9	85-118	4.51	20
Iron	31810	34790	5000	59.5	35890	5000	81.6	87-118	3.13	20
Lead	5.000	44.93	50.00	89.5	44.90	50.00	89.5	88-115	0.0534	20
Magnesium	8035	12180	5000	82.9	12660	5000	92.5	83-118	3.86	20
Manganese	508.6	527.0	50.00	36.8	543.4	50.00	69.6	87-115	3.07	20
Nickel	2.044	46.09	50.00	88.1	48.18	50.00	92.3	85-117	4.44	20
Potassium	2622	7074	5000	89.0	7325	5000	94.1	87-115	3.50	20
Selenium	5.000	45.54	50.00	90.6	47.14	50.00	93.8	80-120	3.45	20
Silver	5.000	44.96	50.00	89.9	44.93	50.00	89.8	85-116	0.0667	20
Sodium	138300	136200	5000	-42.3	141900	5000	71.2	85-117	4.08	20
Thallium	2.000	40.21	50.00	80.3	40.49	50.00	80.9	82-116	0.694	20
Vanadium	5.000	44.50	50.00	89.9	45.84	50.00	92.6	86-115	2.98	20
Zinc	15.08	57.82	50.00	85.5	58.96	50.00	87.8	83-119	1.95	20

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 20:00
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	13.21	102.9	100	90	80-120
Antimony	0	91.8	100	92	80-120
Arsenic	0.633	93	100	92	80-120
Barium	641.5	701.7	100	60	80-120
Beryllium	0	84.28	100	84	80-120
Cadmium	0	90.34	100	90	80-120
Calcium	23670	31700	10000	80	80-120
Chromium	0.71	89.9	100	89	80-120
Cobalt	1.239	91.92	100	91	80-120
Copper	0	89.52	100	89	80-120
Lead	0	89.67	100	90	80-120
Magnesium	8035	16900	10000	89	80-120
Manganese	508.6	577.1	100	69	80-120
Nickel	2.044	92.26	100	90	80-120
Potassium	2622	11800	10000	92	80-120
Selenium	0	92.38	100	92	80-120
Silver	0	92.55	100	93	80-120
Sodium	138300	141900	10000	35	80-120
Thallium	0	92.36	100	92	80-120
Vanadium	0	90.37	100	91	80-120
Zinc	15.08	101.8	100	87	80-120

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 01-Jul-2024 11:36
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Iron	32060	131800	100000	100	80-120

ALS Houston, US

Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 12:37
Date Extracted: 28-Jun-2024 07:30
Units: ug/L

Lab Sample ID: LCS-214230
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.98	100	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 19:47
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: LCS-214140 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	105.6	106	84-117
Antimony	50	49.6	99	85-117
Arsenic	50	47.77	96	84-116
Barium	50	46.54	93	86-114
Beryllium	50	46.56	93	83-121
Cadmium	50	46.92	94	87-115
Calcium	5000	4991	100	87-118
Chromium	50	47.45	95	85-116
Cobalt	50	47.58	95	86-115
Copper	50	47.9	96	85-118
Iron	5000	4866	97	87-118
Lead	50	45.89	92	88-115
Magnesium	5000	4930	99	83-118
Manganese	50	48.27	97	87-115
Nickel	50	48.13	96	85-117
Potassium	5000	4876	98	87-115
Selenium	50	48.2	96	80-120
Silver	50	47.91	96	85-116
Sodium	5000	4861	97	85-117
Thallium	50	42.03	84	82-116
Vanadium	50	47.02	94	86-115
Zinc	50	47.91	96	83-119

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 28-Jun-2024 19:52
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	13.21		0	U	0	
Antimony	0	U	0	U	0	
Arsenic	0.633	J	0	U	0	
Barium	641.5		620.8		3	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	23670		23170		2	
Chromium	0.71	J	0	U	0	
Cobalt	1.239	J	1.33	J	7	
Copper	0	U	0	U	0	
Lead	0	U	0	U	0	
Magnesium	8035		7959		1	
Manganese	508.6		500.8		2	
Nickel	2.044	J	0	U	0	
Potassium	2622		2513		4	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Sodium	138300		137700		0	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	15.08		14.15	J	6	

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060985

Date Analyzed: 01-Jul-2024 11:34
Date Extracted: 26-Jun-2024 13:00
Units: ug/L

Lab Sample ID: HS24061196-10SD
Client Sample ID:

Analysis Method: SW6020A

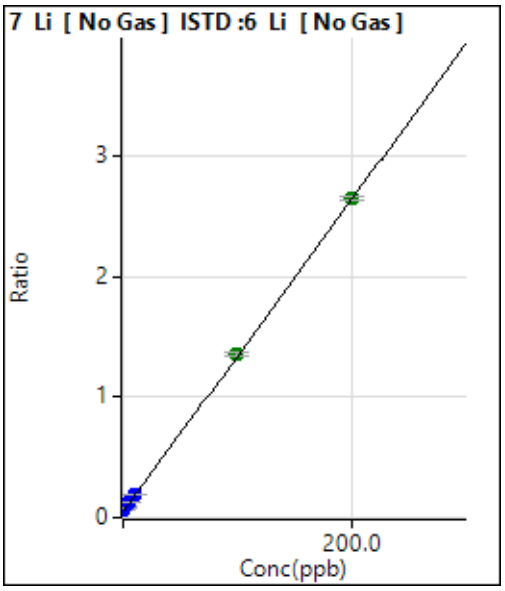
Analyte	Sample Result	C	SD Result	C	RPD	Q
Iron	32060		32050		0	

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	165CALB.d	CAL BLK	6/28/2024 6:26:19 PM
2	166CALS.d	2/10/200	6/28/2024 6:28:52 PM
3	167CALS.d	5/25/500	6/28/2024 6:31:25 PM
4	168CALS.d	10/50/100	6/28/2024 6:33:57 PM
5	169CALS.d	100/500/10K	6/28/2024 6:36:29 PM
6	170CALS.d	200/1000/20K	6/28/2024 6:39:02 PM

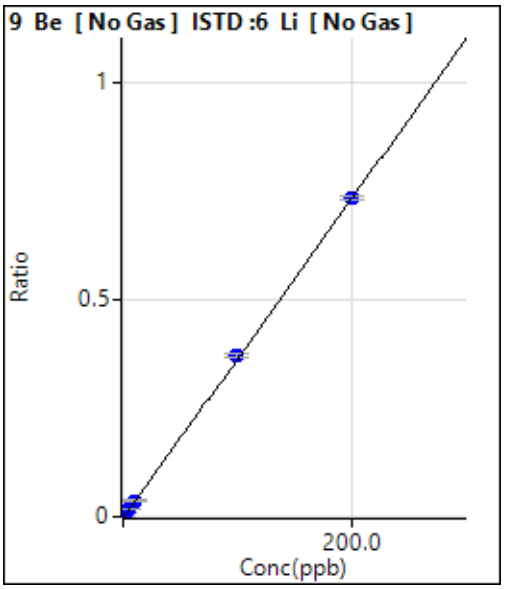
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48562.36	0.0615	P	1.1	
2	☐	2.000	2.046	68240.54	0.0880	P	0.9	2.3
3	☐	5.000	5.201	99702.13	0.1289	P	1.0	4.0
4	☐	10.000	10.292	147790.64	0.1949	P	1.4	2.9
5	☐	100.000	100.357	956336.86	1.3622	A	2.3	0.4
6	☐	200.000	199.802	1808944.30	2.6511	A	1.1	-0.1

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

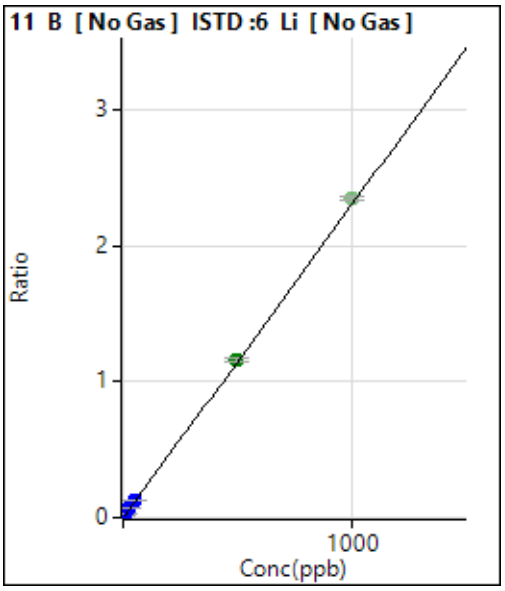


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	37.7	
2	☐	2.000	2.024	5809.56	0.0075	P	4.2	1.2
3	☐	5.000	5.115	14579.18	0.0188	P	1.9	2.3
4	☐	10.000	10.135	28274.79	0.0373	P	3.3	1.3
5	☐	100.000	100.968	260427.17	0.3710	P	3.1	1.0
6	☐	200.000	199.506	500113.42	0.7330	P	0.8	-0.2

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

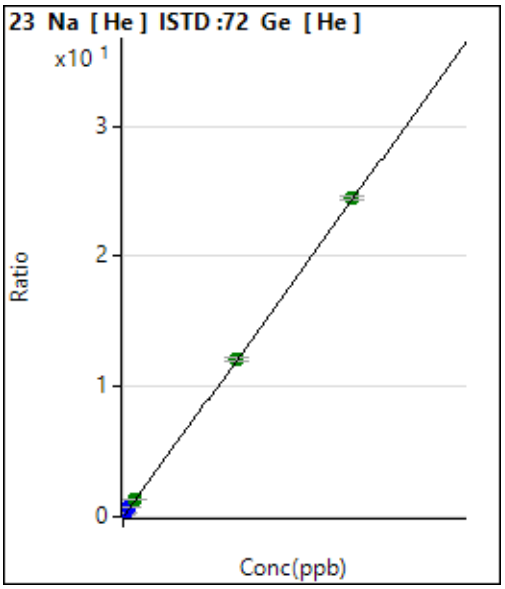
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7922.26	0.0100	P	3.9	
2	☐	10.000	10.121	25820.80	0.0333	P	4.0	1.2
3	☐	25.000	24.965	52173.58	0.0675	P	1.9	-0.1
4	☐	50.000	50.401	95519.95	0.1260	P	1.0	0.8
5	☐	500.000	499.959	814385.20	1.1600	A	2.2	0.0
6	☑	1000.000		1601392.89	2.3470	A	0.6	

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

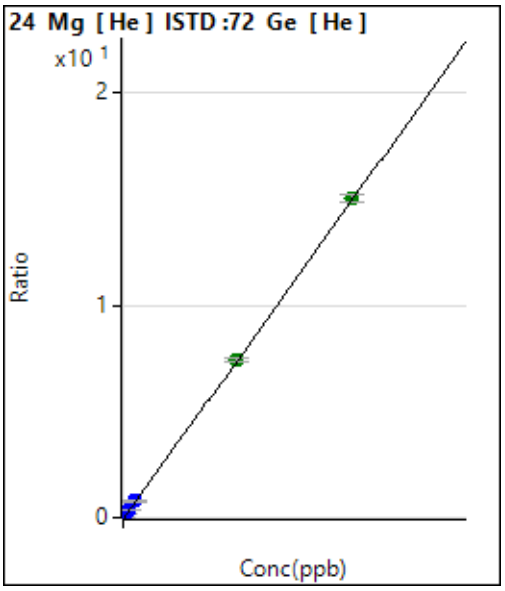
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86476.89	0.0950	P	0.9	
2	☐	200.000	207.191	310252.24	0.3471	P	1.1	3.6
3	☐	500.000	522.648	651517.72	0.7308	P	0.8	4.5
4	☐	1000.000	1030.735	1196257.53	1.3488	A	1.3	3.1
5	☐	10000.00	9869.063	10219544.43	12.0996	A	1.9	-1.3
6	☐	20000.00	20063.29	20275589.70	24.4996	A	1.8	0.3

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

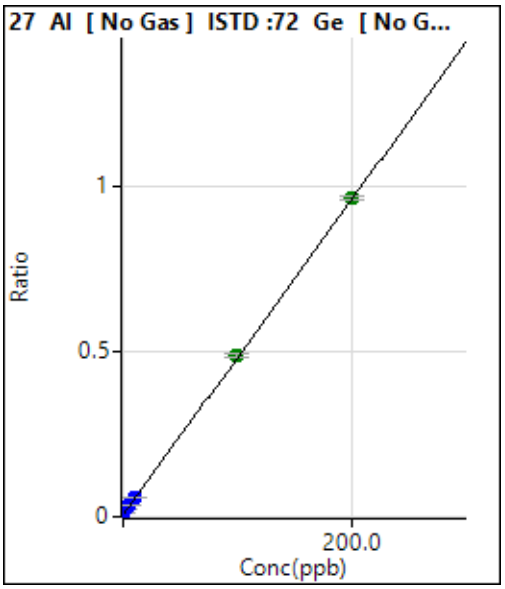
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1970.17	0.0022	P	7.1	
2	☐	200.000	205.278	139572.12	0.1561	P	1.7	2.6
3	☐	500.000	518.172	348425.87	0.3908	P	2.3	3.6
4	☐	1000.000	1026.864	685006.73	0.7723	P	1.2	2.7
5	☐	10000.00	9891.425	6267945.53	7.4209	A	2.2	-1.1
6	☐	20000.00	20052.43	12448558.56	15.0418	A	1.9	0.3

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

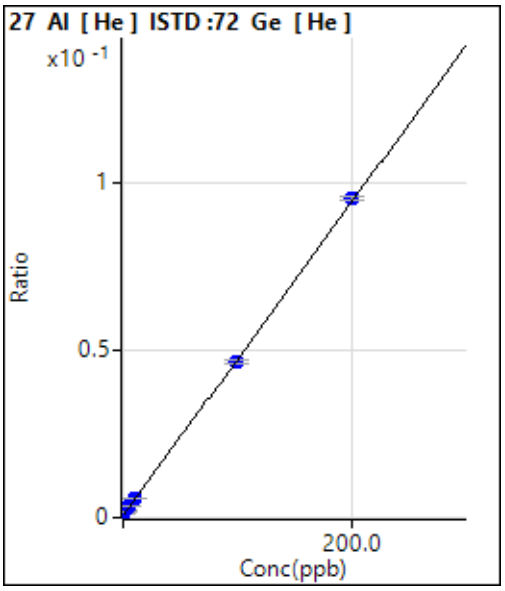


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35474.87	0.0111	P	6.7	
2	☐	2.000	2.083	66346.00	0.0210	P	2.1	4.2
3	☐	5.000	5.023	110225.07	0.0350	P	0.7	0.5
4	☐	10.000	10.235	185893.60	0.0599	P	1.3	2.4
5	☐	100.000	99.862	1423884.88	0.4871	A	2.3	-0.1
6	☐	200.000	200.056	2738133.71	0.9647	A	0.7	0.0

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

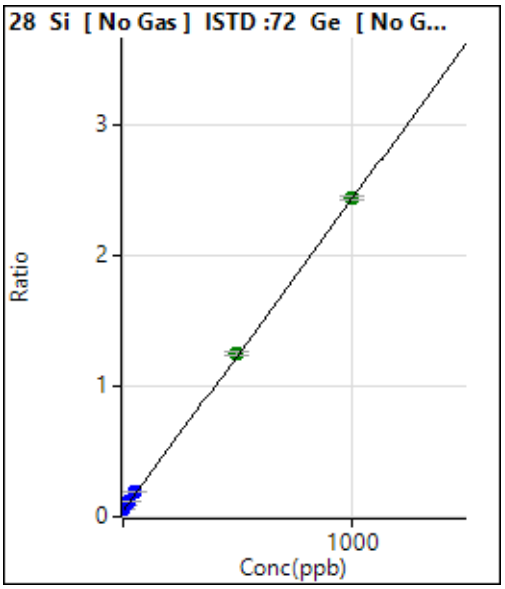
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1003.39	0.0011	P	8.1	
2	☐	2.000	2.099	1866.83	0.0021	P	15.7	4.9
3	☐	5.000	4.738	2963.69	0.0033	P	4.3	-5.2
4	☐	10.000	10.147	5197.72	0.0059	P	3.1	1.5
5	☐	100.000	97.180	39415.58	0.0467	P	3.2	-2.8
6	☐	200.000	201.408	79061.32	0.0955	P	0.9	0.7

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

Weight: <None>
Min Conc: <None>

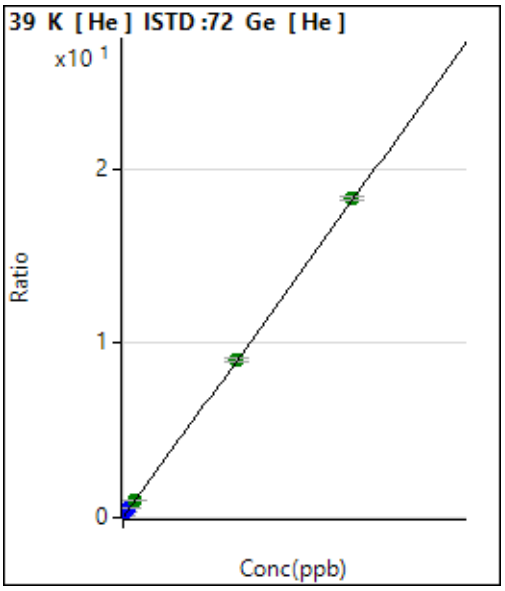


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	184259.15	0.0575	P	1.7	
2	☐	10.000	10.400	259909.01	0.0823	P	1.6	4.0
3	☐	25.000	26.716	381347.95	0.1212	P	0.3	6.9
4	☐	50.000	53.510	574378.35	0.1850	P	0.7	7.0
5	☐	500.000	499.927	3648709.84	1.2482	A	1.9	0.0
6	☐	1000.000	999.814	6921646.57	2.4388	A	0.6	0.0

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

Weight: <None>
Min Conc: <None>

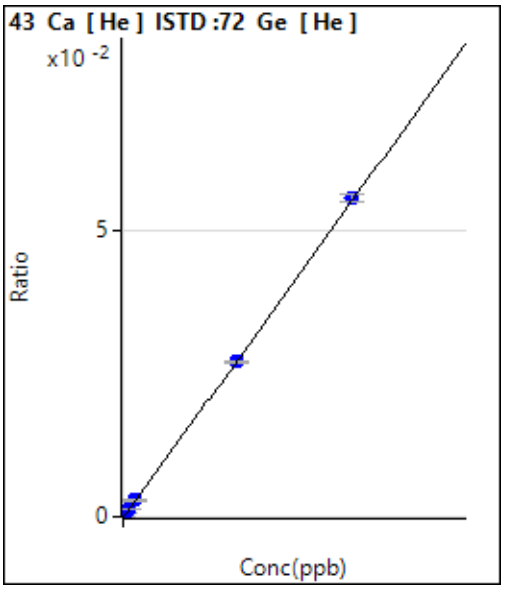
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95326.84	0.1048	P	0.9	
2	☐	200.000	205.310	260000.73	0.2908	P	0.6	2.7
3	☐	500.000	514.051	508755.27	0.5707	P	1.0	2.8
4	☐	1000.000	1025.324	917141.05	1.0340	A	0.9	2.5
5	☐	10000.00	9837.255	7619024.88	9.0204	A	2.3	-1.6
6	☐	20000.00	20079.70	15147611.02	18.3032	A	1.1	0.4

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

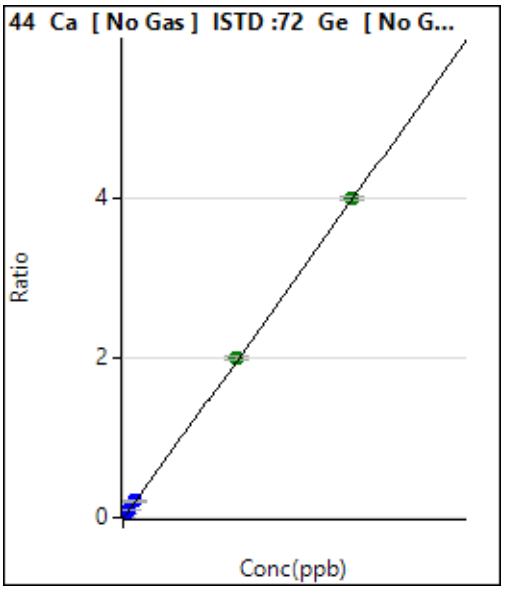
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	32.0	
2	☐	200.000	208.883	563.35	0.0006	P	5.6	4.4
3	☐	500.000	493.005	1263.41	0.0014	P	11.9	-1.4
4	☐	1000.000	1054.272	2636.96	0.0030	P	9.8	5.4
5	☐	10000.00	9749.863	22872.45	0.0271	P	2.0	-2.5
6	☐	20000.00	20122.44	46196.91	0.0558	P	2.3	0.6

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

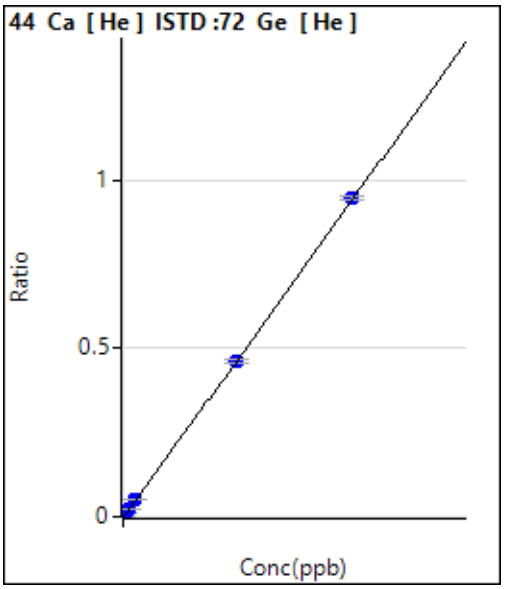
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14494.46	0.0045	P	4.3	
2	☐	200.000	200.337	140270.25	0.0444	P	2.4	0.2
3	☐	500.000	507.777	332481.09	0.1056	P	0.6	1.6
4	☐	1000.000	1006.655	636451.71	0.2050	P	2.2	0.7
5	☐	10000.00	9964.434	5813409.08	1.9888	A	2.3	-0.4
6	☐	20000.00	20017.25	11326121.50	3.9906	A	0.8	0.1

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

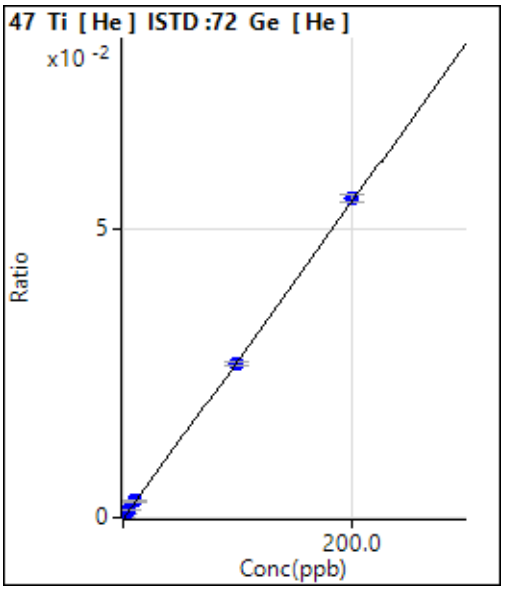
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.02	0.0006	P	8.4	
2	☐	200.000	208.198	9313.30	0.0104	P	4.7	4.1
3	☐	500.000	518.641	22344.87	0.0251	P	1.0	3.7
4	☐	1000.000	1037.980	43962.90	0.0496	P	1.1	3.8
5	☐	10000.00	9841.519	392702.03	0.4649	P	2.5	-1.6
6	☐	20000.00	20076.79	784428.27	0.9478	P	1.6	0.4

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

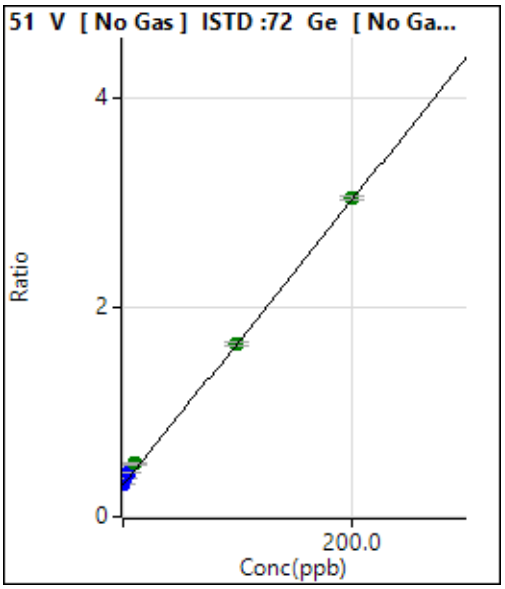
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	131.8	
2	☐	2.000	2.028	516.69	0.0006	P	22.3	1.4
3	☐	5.000	5.244	1300.08	0.0015	P	3.2	4.9
4	☐	10.000	10.510	2573.61	0.0029	P	5.5	5.1
5	☐	100.000	97.093	22481.76	0.0266	P	1.9	-2.9
6	☐	200.000	201.422	45681.99	0.0552	P	2.2	0.7

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

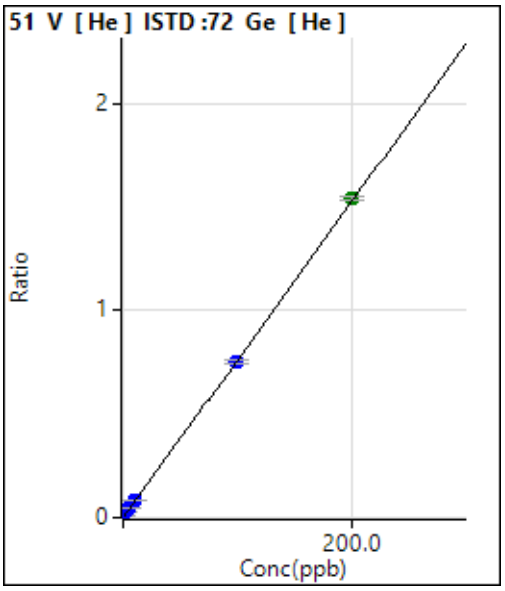
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1018079.73	0.3179	P	1.4	
2	☐	2.000	3.778	1166138.53	0.3693	P	2.1	88.9
3	☐	5.000	7.773	1333491.52	0.4237	P	0.4	55.5
4	☐	10.000	13.855	1572670.43	0.5065	A	0.7	38.5
5	☐	100.000	98.242	4838831.74	1.6554	A	2.6	-1.8
6	☐	200.000	200.599	8653737.82	3.0489	A	1.3	0.3

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

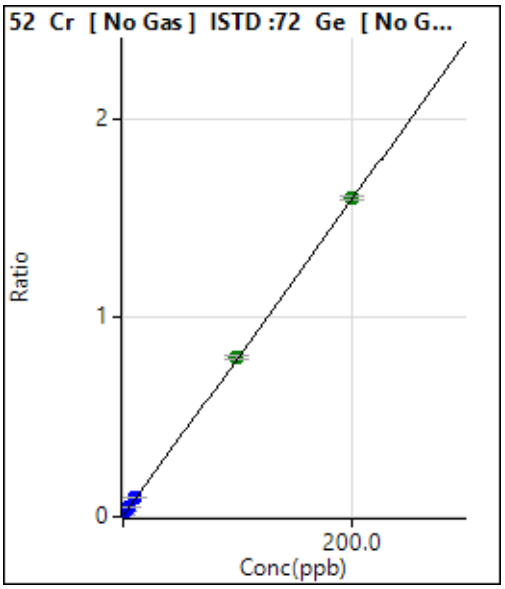
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7188.57	0.0079	P	3.0	
2	☐	2.000	2.105	21412.09	0.0240	P	1.9	5.2
3	☐	5.000	5.176	42231.83	0.0474	P	1.2	3.5
4	☐	10.000	10.380	77209.09	0.0871	P	1.9	3.8
5	☐	100.000	97.703	635979.16	0.7530	P	1.6	-2.3
6	☐	200.000	201.124	1275843.00	1.5416	A	1.3	0.6

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

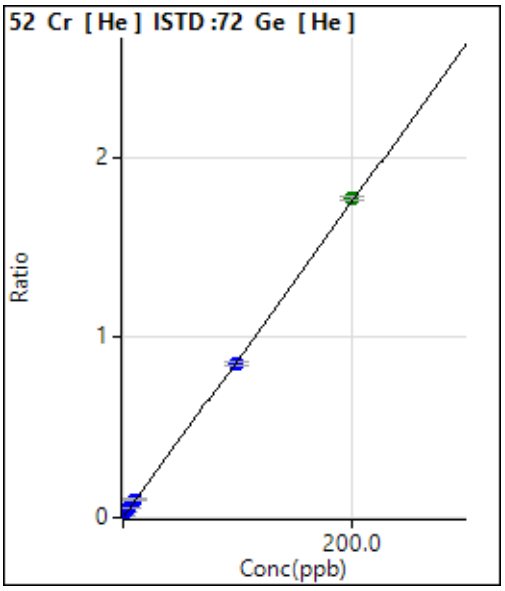
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33200.11	0.0104	P	2.7	
2	☐	2.000	2.106	85613.60	0.0271	P	1.9	5.3
3	☐	5.000	5.218	163205.14	0.0519	P	0.8	4.4
4	☐	10.000	10.411	289233.68	0.0931	P	0.8	4.1
5	☐	100.000	99.596	2345265.69	0.8023	A	2.3	-0.4
6	☐	200.000	200.175	4547211.81	1.6021	A	1.1	0.1

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

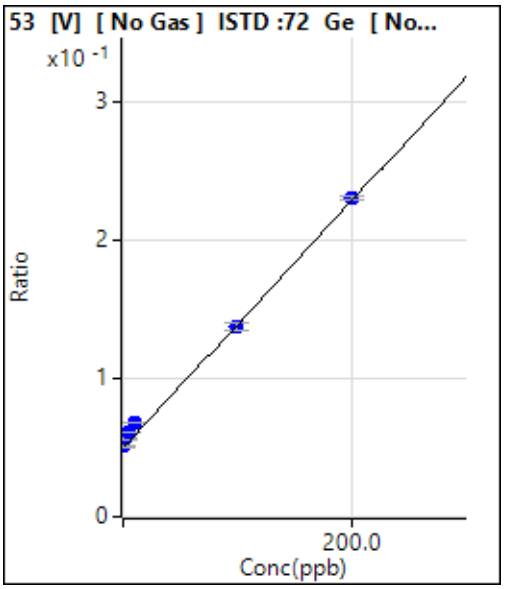
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8606.19	0.0095	P	5.5	
2	☐	2.000	2.108	24969.48	0.0279	P	0.8	5.4
3	☐	5.000	5.221	49204.36	0.0552	P	1.2	4.4
4	☐	10.000	10.373	88964.69	0.1003	P	2.6	3.7
5	☐	100.000	96.923	725015.46	0.8584	P	2.3	-3.1
6	☐	200.000	201.513	1468567.27	1.7745	A	1.2	0.8

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

Weight: <None>
Min Conc: <None>

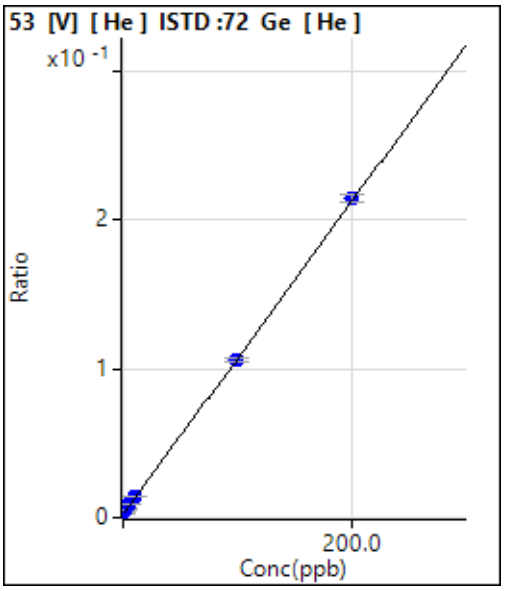


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163672.05	0.0511	P	1.4	
2	☐	2.000	6.431	179535.20	0.0569	P	2.4	221.6
3	☐	5.000	11.260	192547.54	0.0612	P	0.9	125.2
4	☐	10.000	18.837	211016.24	0.0680	P	1.3	88.4
5	☐	100.000	96.639	402172.55	0.1376	P	3.5	-3.4
6	☐	200.000	201.038	655717.18	0.2310	P	1.3	0.5

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

Weight: <None>
Min Conc: <None>

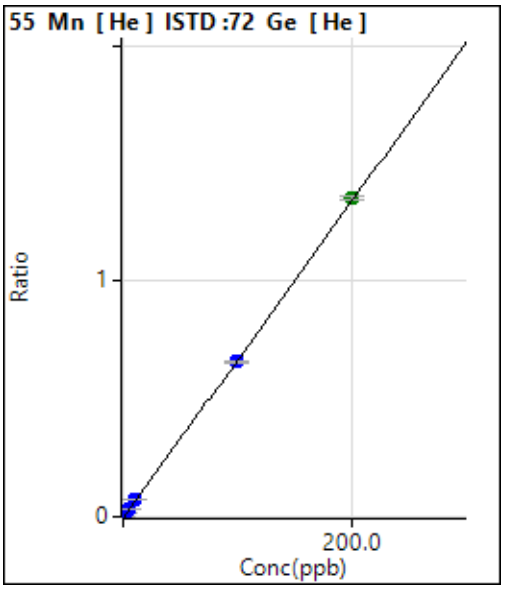
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2957.05	0.0032	P	3.6	
2	☐	2.000	2.381	5137.70	0.0057	P	3.5	19.1
3	☐	5.000	5.644	8175.86	0.0092	P	2.1	12.9
4	☐	10.000	10.433	12589.26	0.0142	P	2.2	4.3
5	☐	100.000	97.703	89316.86	0.1057	P	2.0	-2.3
6	☐	200.000	201.107	177284.23	0.2142	P	2.1	0.6

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

Weight: <None>
Min Conc: <None>

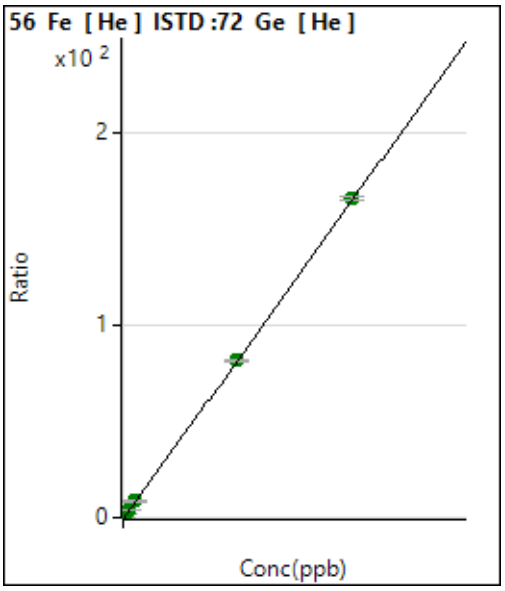


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573.36	0.0006	P	19.3	
2	☐	2.000	2.015	12682.70	0.0142	P	2.3	0.8
3	☐	5.000	5.140	31392.63	0.0352	P	3.3	2.8
4	☐	10.000	10.327	62190.07	0.0701	P	0.7	3.3
5	☐	100.000	97.662	555570.75	0.6577	P	1.2	-2.3
6	☐	200.000	201.149	1120604.20	1.3540	A	1.2	0.6

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

Weight: <None>
Min Conc: <None>

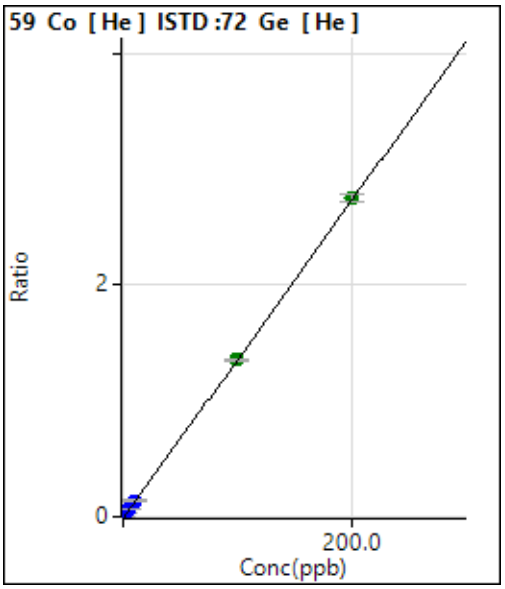
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13917.24	0.0153	P	6.6	
2	☐	200.000	202.456	1513401.96	1.6928	A	1.4	1.2
3	☐	500.000	513.734	3808640.57	4.2720	A	2.1	2.7
4	☐	1000.000	1029.717	7580831.97	8.5474	A	1.7	3.0
5	☐	10000.00	9854.683	68980232.30	81.6696	A	1.8	-1.5
6	☐	20000.00	20070.80	137644121.2	166.318	A	1.1	0.4

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

Weight: <None>
Min Conc: <None>

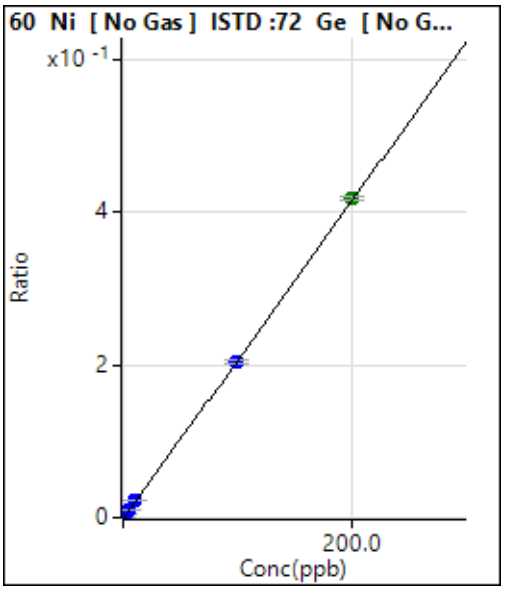


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0002	P	1.0	
2	☐	2.000	2.058	25370.40	0.0284	P	2.7	2.9
3	☐	5.000	5.115	62675.71	0.0703	P	2.6	2.3
4	☐	10.000	10.214	124376.65	0.1402	P	1.2	2.1
5	☐	100.000	98.604	1142339.23	1.3525	A	1.9	-1.4
6	☐	200.000	200.684	2277939.65	2.7525	A	1.8	0.3

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

Weight: <None>
Min Conc: <None>

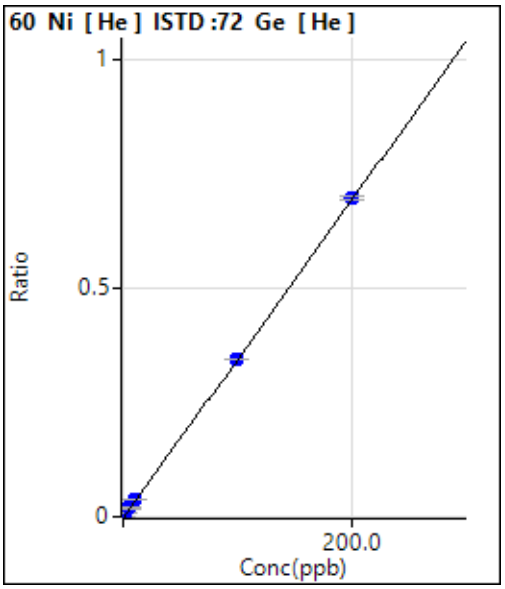
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0002	P	18.9	
2	☐	2.000	2.082	14371.02	0.0046	P	2.0	4.1
3	☐	5.000	5.200	34720.64	0.0110	P	1.4	4.0
4	☐	10.000	10.342	67438.31	0.0217	P	1.3	3.4
5	☐	100.000	98.240	597502.93	0.2044	P	2.5	-1.8
6	☐	200.000	200.857	1185512.66	0.4177	A	1.5	0.4

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

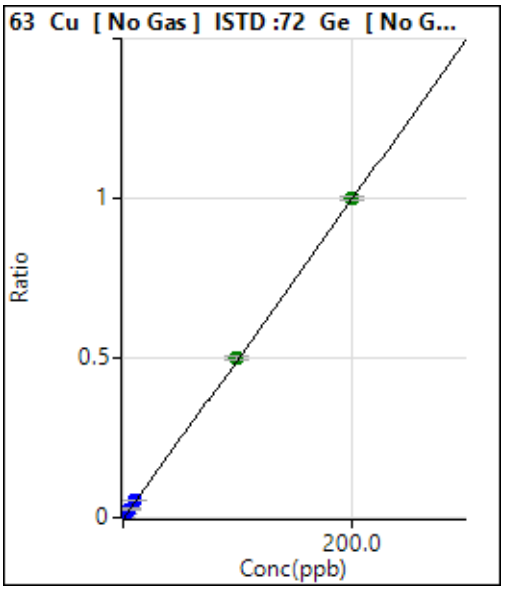
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0003	P	18.5	
2	☐	2.000	2.070	6681.75	0.0075	P	3.3	3.5
3	☐	5.000	5.377	16907.25	0.0190	P	2.5	7.5
4	☐	10.000	10.447	32451.88	0.0366	P	1.2	4.5
5	☐	100.000	99.049	290973.23	0.3445	P	0.9	-1.0
6	☐	200.000	200.443	576705.58	0.6969	P	1.5	0.2

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

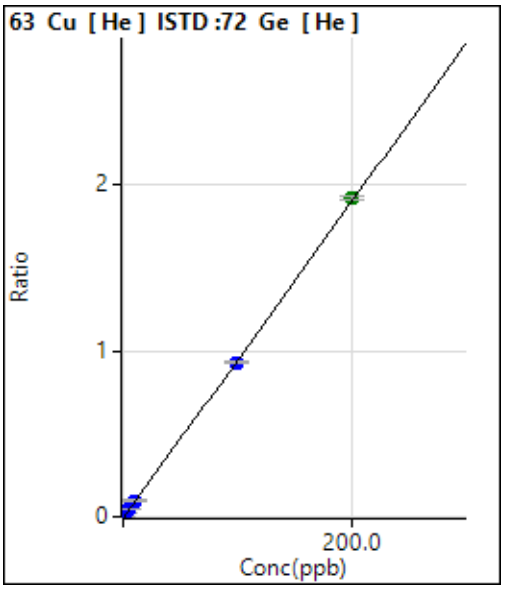
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0004	P	5.2	
2	☐	2.000	2.132	35058.40	0.0111	P	1.4	6.6
3	☐	5.000	5.294	84773.26	0.0269	P	1.8	5.9
4	☐	10.000	10.551	165387.54	0.0533	P	1.5	5.5
5	☐	100.000	100.041	1465716.18	0.5014	A	2.4	0.0
6	☐	200.000	199.943	2843077.67	1.0017	A	0.7	0.0

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

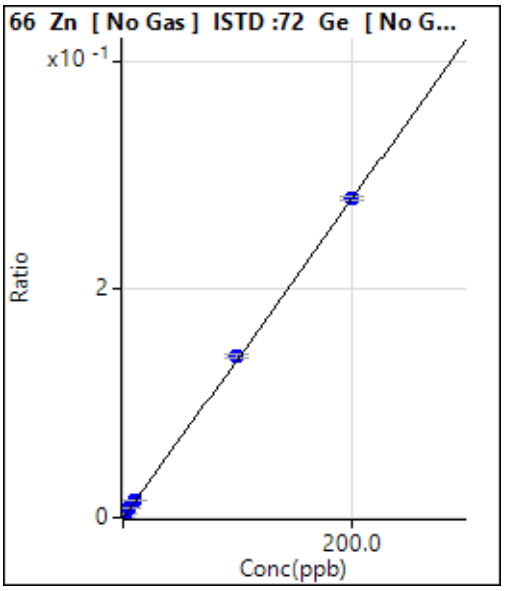
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0007	P	3.7	
2	☐	2.000	1.979	17531.45	0.0196	P	2.9	-1.0
3	☐	5.000	5.215	44993.69	0.0505	P	2.5	4.3
4	☐	10.000	10.215	87034.76	0.0981	P	1.4	2.1
5	☐	100.000	97.300	784298.66	0.9285	P	1.8	-2.7
6	☐	200.000	201.334	1589430.23	1.9206	A	1.6	0.7

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

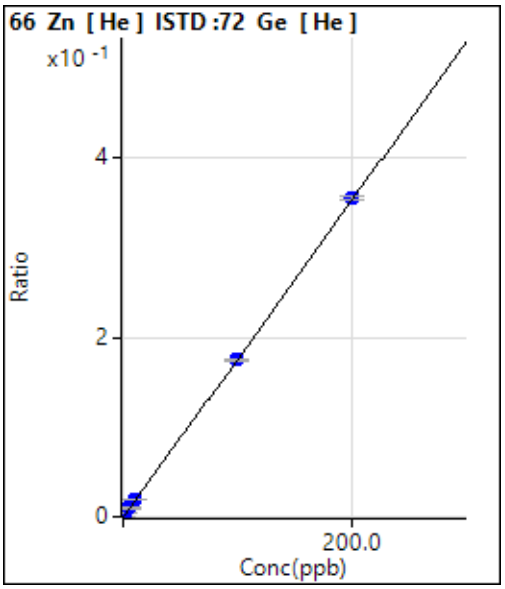
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2570.30	0.0008	P	8.7	
2	☐	2.000	2.044	11548.38	0.0037	P	3.8	2.2
3	☐	5.000	5.100	24939.64	0.0079	P	2.7	2.0
4	☐	10.000	10.247	46930.36	0.0151	P	1.7	2.5
5	☐	100.000	100.603	413049.12	0.1413	P	2.2	0.6
6	☐	200.000	199.683	793766.68	0.2797	P	0.7	-0.2

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

Weight: <None>
Min Conc: <None>

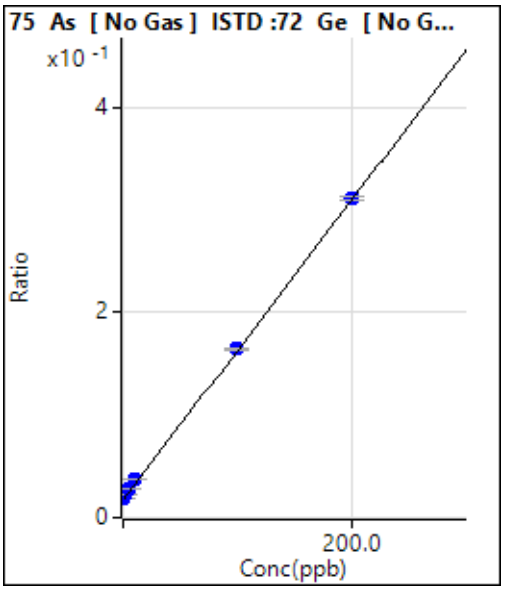


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0009	P	6.9	
2	☐	2.000	2.186	4297.42	0.0048	P	3.8	9.3
3	☐	5.000	5.096	8873.06	0.0100	P	7.0	1.9
4	☐	10.000	10.494	17287.87	0.0195	P	3.0	4.9
5	☐	100.000	98.530	147869.38	0.1751	P	1.0	-1.5
6	☐	200.000	200.706	294330.44	0.3556	P	0.7	0.4

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

Weight: <None>
Min Conc: <None>

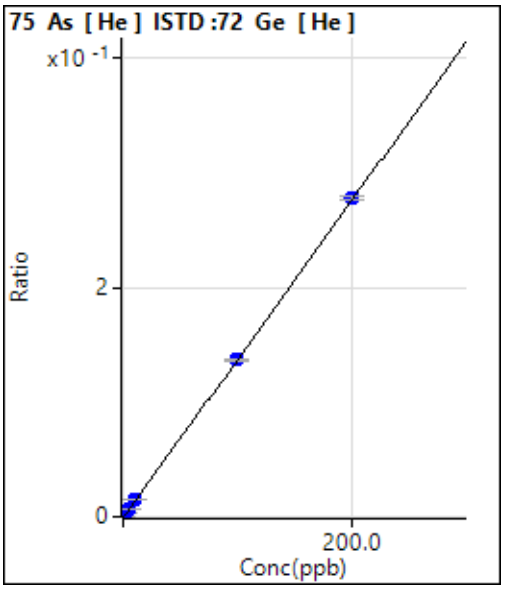
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60708.39	0.0190	P	2.6	
2	☐	2.000	2.598	71828.87	0.0227	P	0.6	29.9
3	☐	5.000	6.410	89100.17	0.0283	P	2.8	28.2
4	☐	10.000	12.372	114911.74	0.0370	P	1.6	23.7
5	☐	100.000	99.405	479468.57	0.1640	P	1.3	-0.6
6	☐	200.000	200.138	882747.18	0.3110	P	0.6	0.1

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

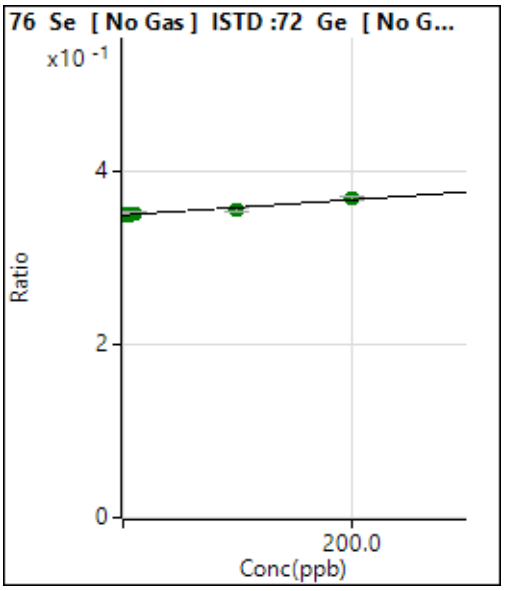
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	337.79	0.0004	P	8.6	
2	☐	2.000	2.000	2804.75	0.0031	P	1.0	0.0
3	☐	5.000	5.030	6532.70	0.0073	P	2.3	0.6
4	☐	10.000	10.255	12908.38	0.0146	P	3.4	2.6
5	☐	100.000	98.509	115384.20	0.1366	P	1.1	-1.5
6	☐	200.000	200.732	230052.21	0.2780	P	1.8	0.4

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

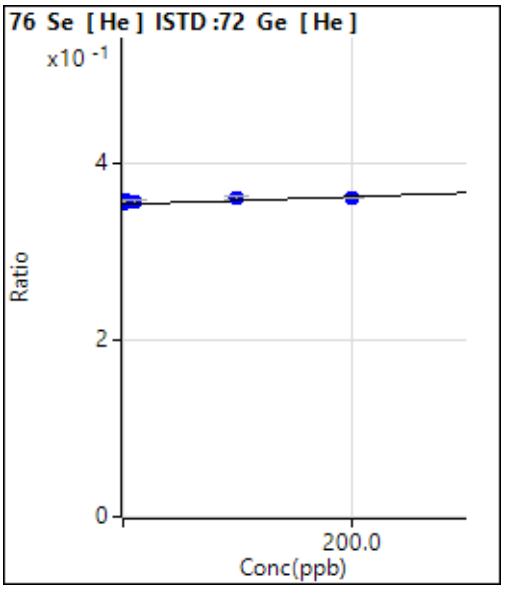
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1118509.59	0.3493	A	1.4	
2	☐	2.000	12.133	1106346.75	0.3503	A	0.8	506.6
3	☐	5.000	0.824	1099450.53	0.3493	A	0.7	-83.5
4	☐	10.000	24.917	1091361.00	0.3515	A	0.3	149.2
5	☐	100.000	64.453	1037787.59	0.3550	A	0.8	-35.5
6	☐	200.000	217.030	1046044.54	0.3686	A	1.1	8.5

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

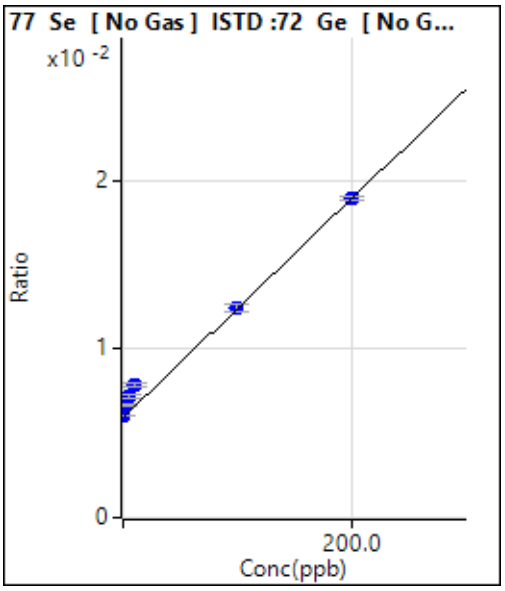
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	322418.73	0.3543	P	0.5	
2	☐	2.000	139.317	322219.10	0.3604	P	0.9	6865.9
3	☐	5.000	43.896	317604.81	0.3563	P	0.9	777.9
4	☐	10.000	68.077	316915.15	0.3573	P	0.9	580.8
5	☐	100.000	166.546	305469.74	0.3616	P	0.7	66.5
6	☐	200.000	161.478	299090.93	0.3614	P	0.2	-19.3

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

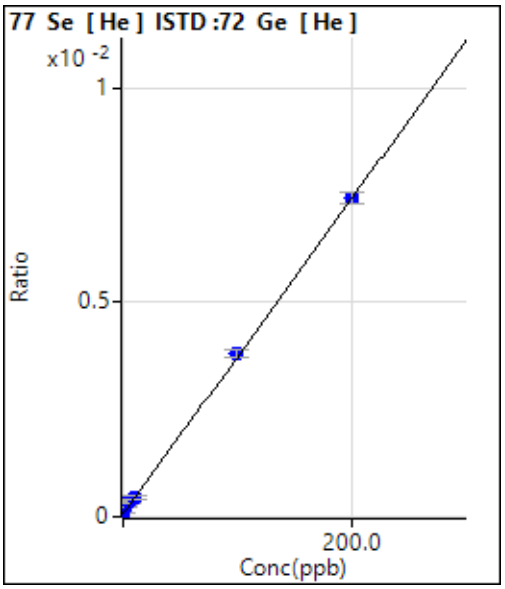
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19317.30	0.0060	P	1.1	
2	☐	2.000	10.210	21140.06	0.0067	P	2.6	410.5
3	☐	5.000	17.731	22602.34	0.0072	P	1.9	254.6
4	☐	10.000	28.389	24442.31	0.0079	P	4.1	183.9
5	☐	100.000	99.362	36472.38	0.0125	P	3.9	-0.6
6	☐	200.000	198.999	53752.78	0.0189	P	0.7	-0.5

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

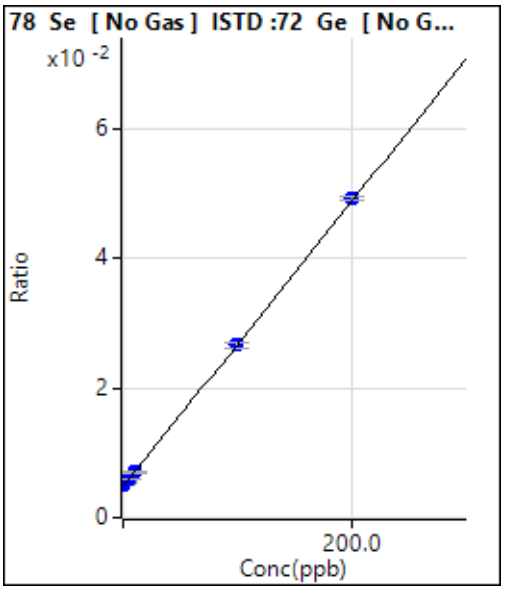


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	24.7	
2	☐	2.000	3.797	210.00	0.0002	P	20.8	89.9
3	☐	5.000	6.663	303.34	0.0003	P	5.1	33.3
4	☐	10.000	9.176	383.35	0.0004	P	18.2	-8.2
5	☐	100.000	100.943	3213.77	0.0038	P	4.5	0.9
6	☐	200.000	199.510	6148.15	0.0074	P	3.1	-0.2

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

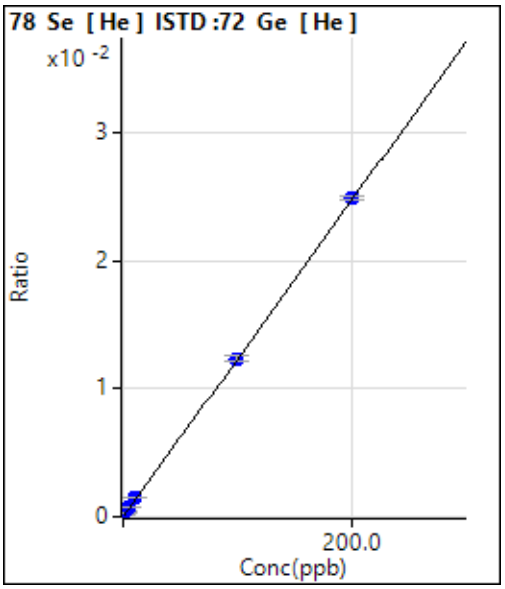
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16203.21	0.0051	P	4.0	
2	☐	2.000	1.943	17327.91	0.0055	P	1.1	-2.8
3	☐	5.000	4.075	18743.22	0.0060	P	2.7	-18.5
4	☐	10.000	9.213	21994.62	0.0071	P	3.5	-7.9
5	☐	100.000	97.880	77606.98	0.0266	P	3.2	-2.1
6	☐	200.000	201.123	139684.29	0.0492	P	1.7	0.6

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

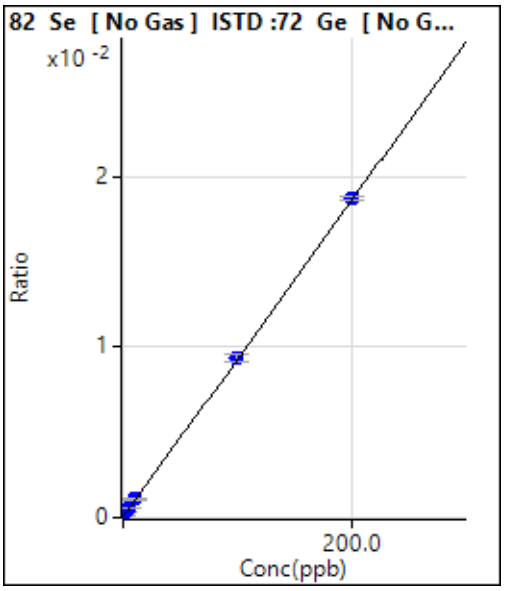
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	19.6	
2	☐	2.000	2.100	337.34	0.0004	P	9.3	5.0
3	☐	5.000	4.946	650.68	0.0007	P	11.0	-1.1
4	☐	10.000	10.974	1310.07	0.0015	P	2.5	9.7
5	☐	100.000	98.929	10450.69	0.0124	P	3.7	-1.1
6	☐	200.000	200.487	20652.28	0.0250	P	1.6	0.2

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

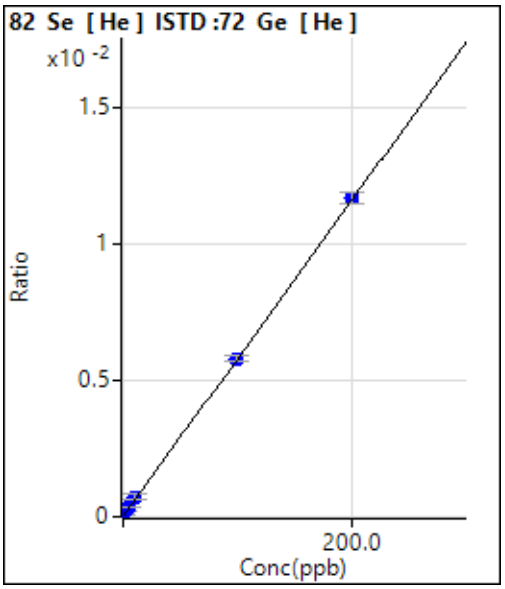
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	23.2	
2	☐	2.000	2.166	1046.73	0.0003	P	9.8	8.3
3	☐	5.000	4.748	1796.82	0.0006	P	4.9	-5.0
4	☐	10.000	10.192	3340.47	0.0011	P	4.7	1.9
5	☐	100.000	99.356	27327.86	0.0093	P	5.2	-0.6
6	☐	200.000	200.317	53124.22	0.0187	P	0.7	0.2

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

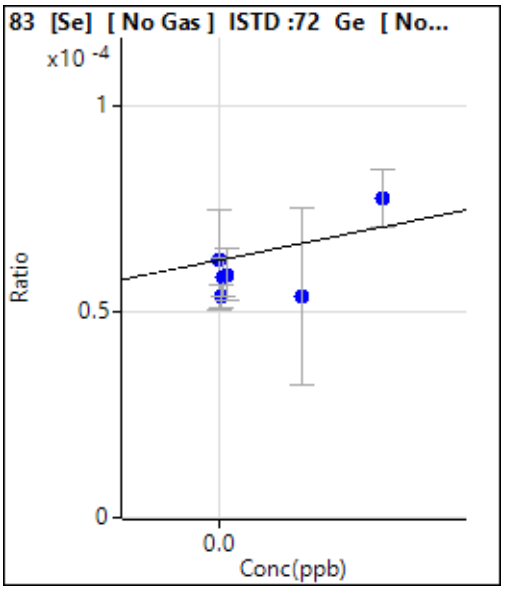
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	34.3	
2	☐	2.000	2.080	173.34	0.0002	P	16.9	4.0
3	☐	5.000	4.544	300.01	0.0003	P	8.4	-9.1
4	☐	10.000	11.047	633.36	0.0007	P	31.4	10.5
5	☐	100.000	98.808	4897.65	0.0058	P	4.2	-1.2
6	☐	200.000	200.554	9676.94	0.0117	P	3.6	0.3

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

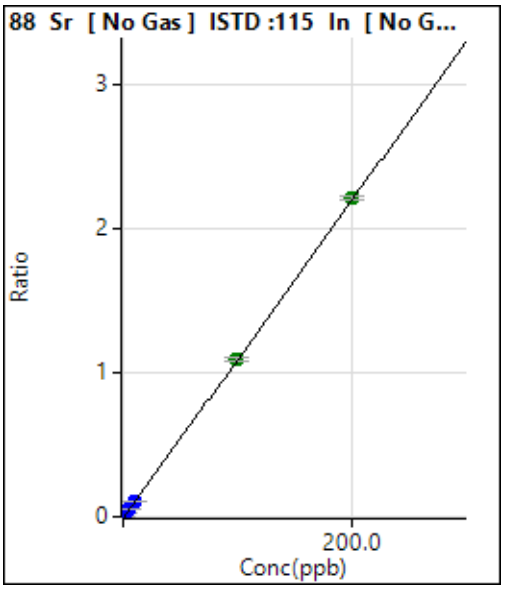
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	38.2	
2	☐	2.000	-215.533	170.00	0.0001	P	10.2	-10876.
3	☐	5.000	-106.649	183.34	0.0001	P	16.5	-2233.0
4	☐	10.000	-88.045	183.34	0.0001	P	21.4	-980.4
5	☐	100.000	-217.110	156.67	0.0001	P	80.0	-317.1
6	☐	200.000	368.424	220.01	0.0001	P	17.5	84.2

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

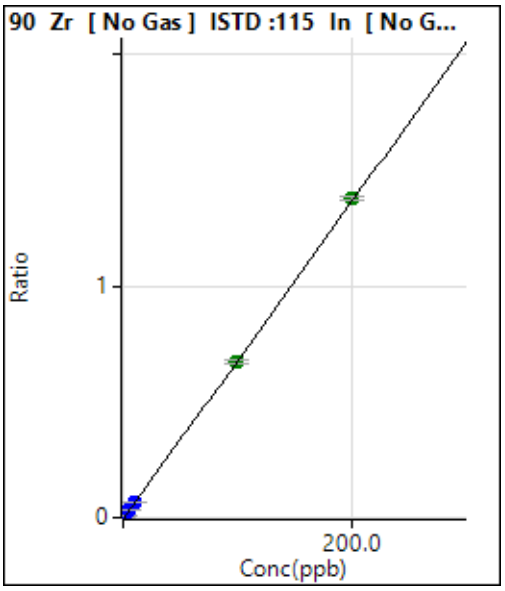


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2043.52	0.0005	P	14.3	
2	☐	2.000	2.046	100806.95	0.0231	P	1.8	2.3
3	☐	5.000	5.108	246714.32	0.0569	P	1.8	2.2
4	☐	10.000	10.128	483170.04	0.1123	P	1.9	1.3
5	☐	100.000	98.543	4446349.20	1.0885	A	2.4	-1.5
6	☐	200.000	200.719	8796152.37	2.2165	A	1.6	0.4

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

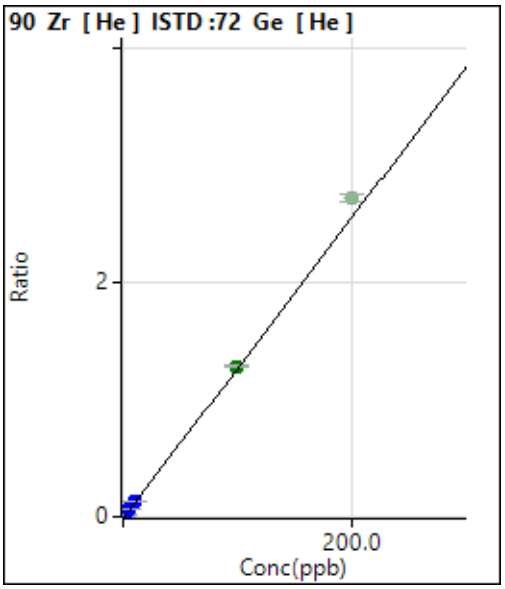
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1110.06	0.0003	P	6.6	
2	☐	2.000	1.664	50989.75	0.0117	P	1.1	-16.8
3	☐	5.000	4.402	132064.15	0.0304	P	1.7	-12.0
4	☐	10.000	9.338	276603.98	0.0643	P	1.2	-6.6
5	☐	100.000	97.711	2737978.50	0.6703	A	2.3	-2.3
6	☐	200.000	201.196	5475859.50	1.3798	A	1.3	0.6

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

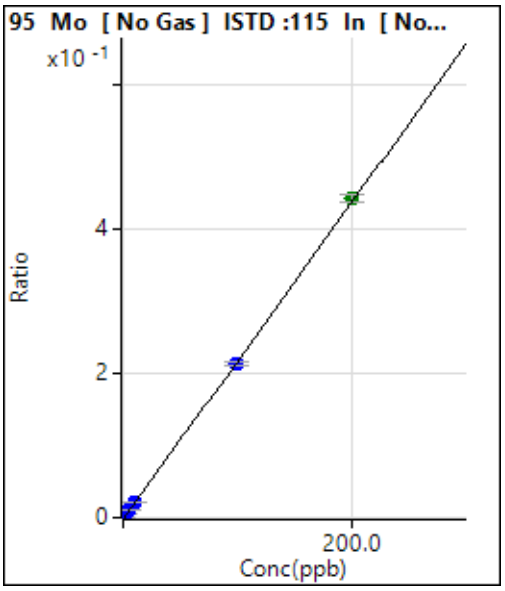


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0017	P	7.0	
2	☐	2.000	1.699	20966.50	0.0235	P	3.5	-15.0
3	☐	5.000	4.603	54058.52	0.0606	P	2.8	-7.9
4	☐	10.000	9.651	111097.16	0.1253	P	1.6	-3.5
5	☐	100.000	100.061	1083420.84	1.2827	A	1.9	0.1
6	☑	200.000		2248455.17	2.7168	A	2.5	

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

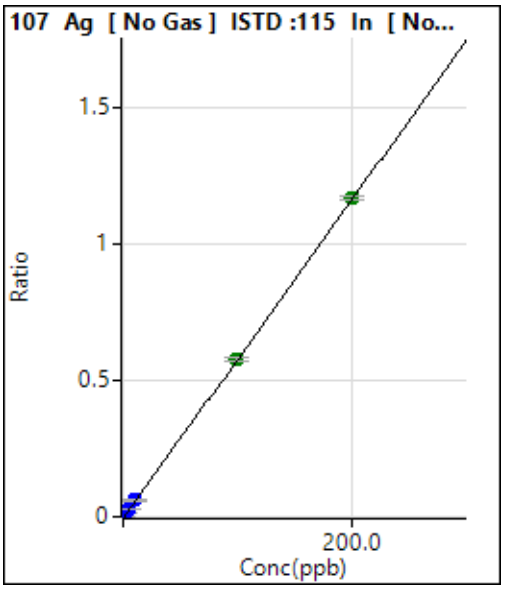
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0000	P	15.8	
2	☐	2.000	1.938	18696.61	0.0043	P	3.9	-3.1
3	☐	5.000	4.951	47206.40	0.0109	P	2.6	-1.0
4	☐	10.000	9.890	93392.15	0.0217	P	2.5	-1.1
5	☐	100.000	96.762	866437.20	0.2121	P	2.4	-3.2
6	☐	200.000	201.626	1753771.80	0.4419	A	2.0	0.8

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

Weight: <None>
Min Conc: <None>

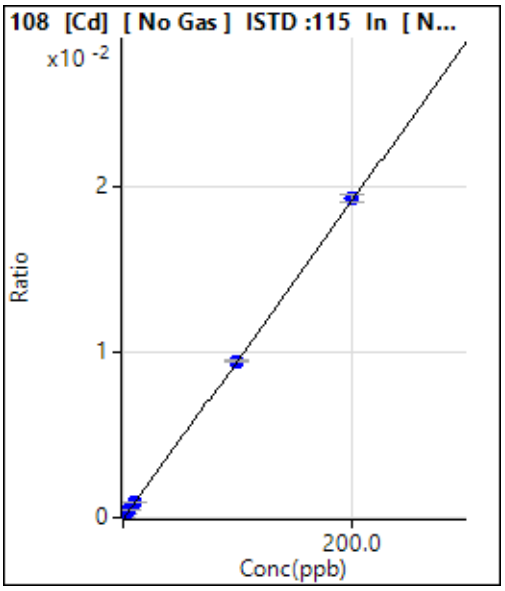


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	31.9	
2	☐	2.000	2.098	53888.70	0.0123	P	2.2	4.9
3	☐	5.000	5.180	131578.56	0.0303	P	1.9	3.6
4	☐	10.000	10.342	260214.48	0.0605	P	2.0	3.4
5	☐	100.000	99.293	2369307.93	0.5800	A	2.0	-0.7
6	☐	200.000	200.331	4643518.78	1.1701	A	1.4	0.2

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

Weight: <None>
Min Conc: <None>

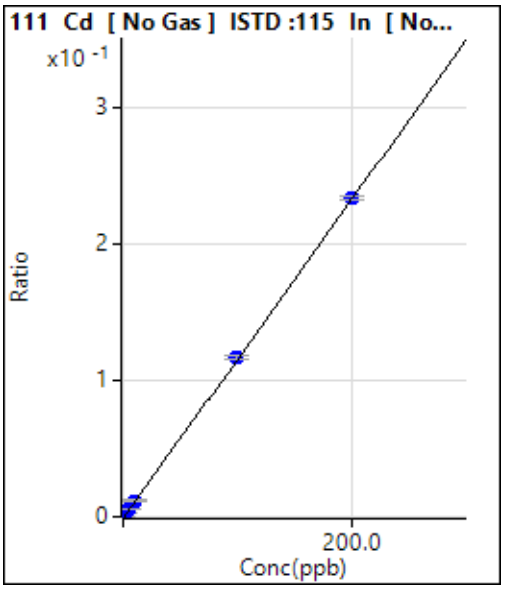
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.2	
2	☐	2.000	2.102	893.38	0.0002	P	8.0	5.1
3	☐	5.000	4.693	1966.85	0.0005	P	14.7	-6.1
4	☐	10.000	9.909	4107.37	0.0010	P	3.5	-0.9
5	☐	100.000	98.249	38582.61	0.0094	P	0.8	-1.8
6	☐	200.000	200.887	76619.08	0.0193	P	2.4	0.4

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

Weight: <None>
Min Conc: <None>

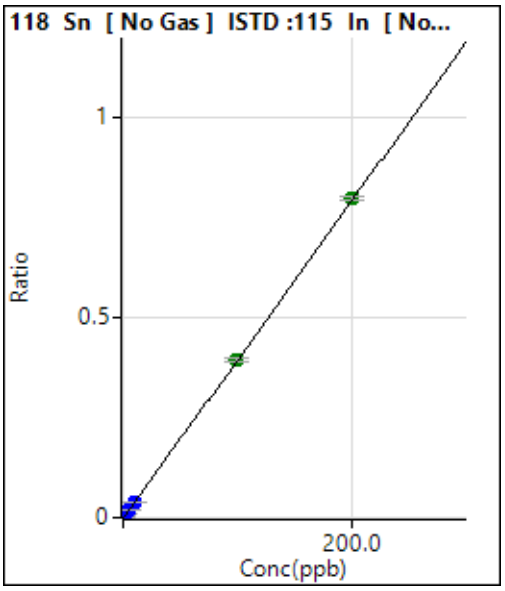


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7.40	0.0000	P	-214.	
2	☐	2.000	1.973	10099.50	0.0023	P	5.6	-1.4
3	☐	5.000	5.059	25709.01	0.0059	P	3.3	1.2
4	☐	10.000	10.136	51091.88	0.0119	P	2.5	1.4
5	☐	100.000	99.931	478228.22	0.1171	P	1.6	-0.1
6	☐	200.000	200.027	929935.39	0.2343	P	1.2	0.0

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

Weight: <None>
Min Conc: <None>

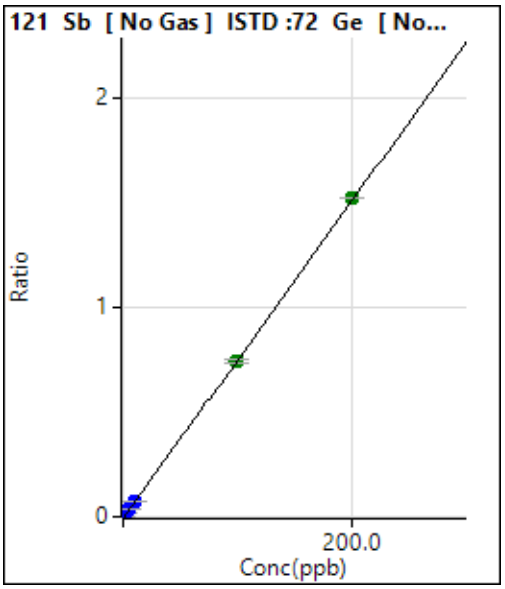
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7792.59	0.0018	P	90.4	
2	☐	2.000	1.722	37580.33	0.0086	P	1.7	-13.9
3	☐	5.000	4.647	87664.91	0.0202	P	2.5	-7.1
4	☐	10.000	9.723	173686.49	0.0404	P	1.5	-2.8
5	☐	100.000	98.589	1606338.05	0.3932	A	2.6	-1.4
6	☐	200.000	200.731	3170027.97	0.7988	A	1.2	0.4

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

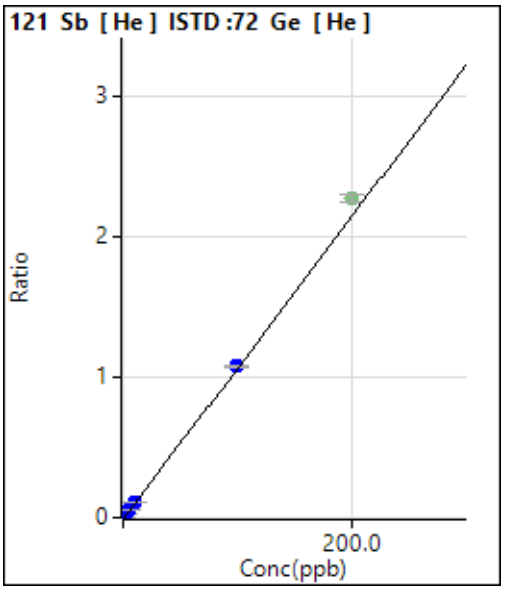
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	613.36	0.0002	P	14.2	
2	☐	2.000	1.914	46424.92	0.0147	P	1.8	-4.3
3	☐	5.000	4.808	115324.75	0.0366	P	2.3	-3.8
4	☐	10.000	9.750	230101.50	0.0741	P	1.4	-2.5
5	☐	100.000	97.932	2170757.83	0.7426	A	2.6	-2.1
6	☐	200.000	201.052	4326346.60	1.5244	A	0.5	0.5

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

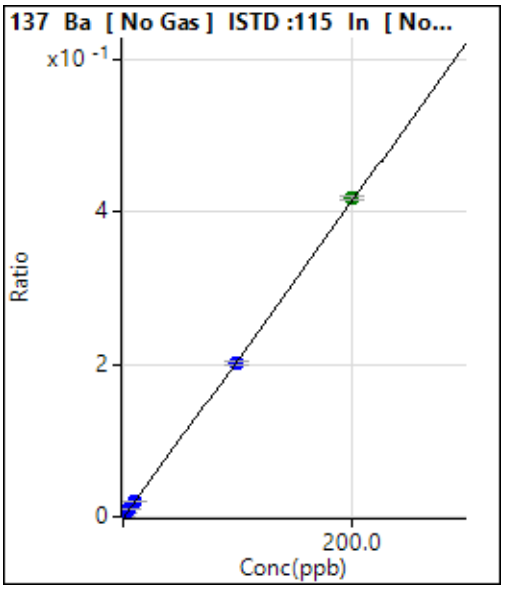
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	270.01	0.0003	P	2.9	
2	☐	2.000	1.985	19414.50	0.0217	P	2.2	-0.7
3	☐	5.000	5.048	48830.03	0.0548	P	2.9	1.0
4	☐	10.000	10.038	96338.64	0.1086	P	2.1	0.4
5	☐	100.000	99.994	911668.94	1.0793	P	1.6	0.0
6	☑	200.000		1885754.97	2.2786	A	2.3	

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

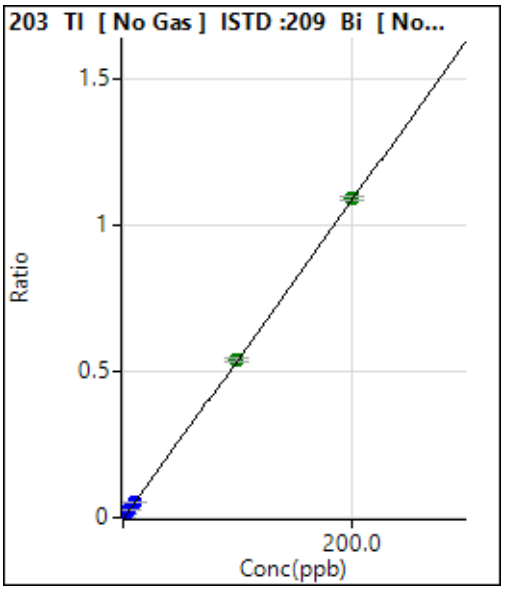
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0001	P	20.8	
2	☐	2.000	1.950	18346.41	0.0042	P	2.8	-2.5
3	☐	5.000	4.956	45298.23	0.0104	P	2.4	-0.9
4	☐	10.000	9.867	88836.43	0.0206	P	4.7	-1.3
5	☐	100.000	97.284	826307.96	0.2023	P	1.9	-2.7
6	☐	200.000	201.366	1660976.80	0.4185	A	1.3	0.7

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

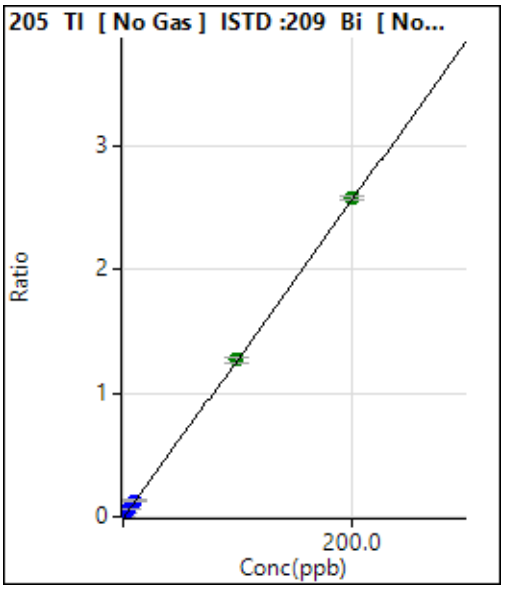
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	306.68	0.0001	P	34.6	
2	☐	2.000	2.068	55087.37	0.0113	P	1.4	3.4
3	☐	5.000	5.130	134948.34	0.0280	P	2.6	2.6
4	☐	10.000	10.073	266008.66	0.0549	P	1.7	0.7
5	☐	100.000	98.988	2475478.45	0.5390	A	3.1	-1.0
6	☐	200.000	200.498	4844499.61	1.0916	A	0.9	0.2

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

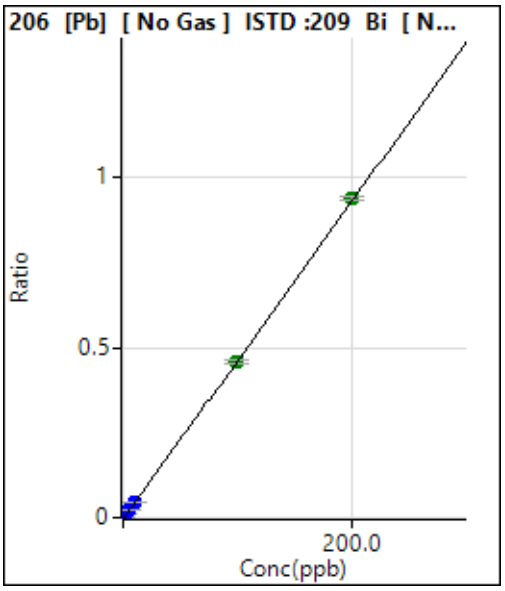
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	690.04	0.0001	P	13.9	
2	☐	2.000	2.067	130025.36	0.0267	P	0.8	3.3
3	☐	5.000	5.172	321407.94	0.0667	P	1.6	3.4
4	☐	10.000	10.170	634396.28	0.1309	P	2.0	1.7
5	☐	100.000	98.762	5834332.00	1.2703	A	3.1	-1.2
6	☐	200.000	200.606	11450363.58	2.5800	A	1.0	0.3

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

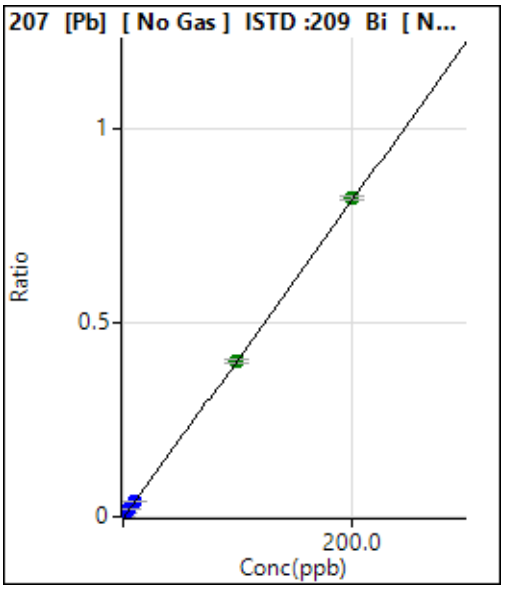
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	613.36	0.0001	P	1.1	
2	☐	2.000	1.974	45428.86	0.0093	P	2.2	-1.3
3	☐	5.000	5.028	113712.79	0.0236	P	2.5	0.6
4	☐	10.000	9.913	224739.88	0.0464	P	1.1	-0.9
5	☐	100.000	97.820	2097034.92	0.4566	A	2.7	-2.2
6	☐	200.000	201.094	4164933.58	0.9385	A	1.0	0.5

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

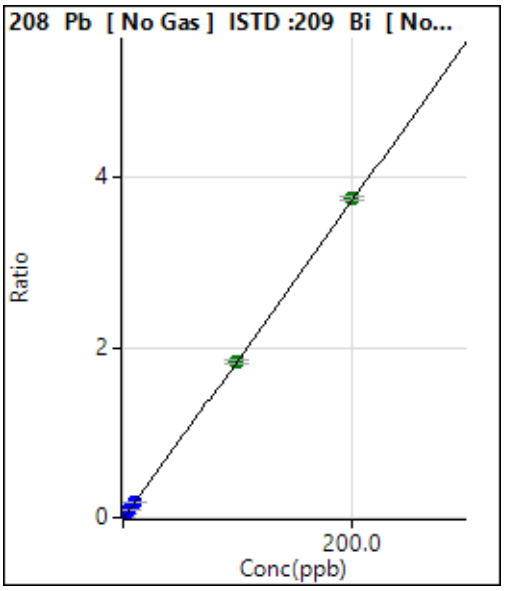
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	526.69	0.0001	P	2.5	
2	☐	2.000	1.977	39916.91	0.0082	P	2.8	-1.1
3	☐	5.000	4.949	98247.52	0.0204	P	1.1	-1.0
4	☐	10.000	9.792	194824.24	0.0402	P	1.1	-2.1
5	☐	100.000	98.116	1846001.28	0.4019	A	2.1	-1.9
6	☐	200.000	200.954	3652784.63	0.8230	A	1.2	0.5

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

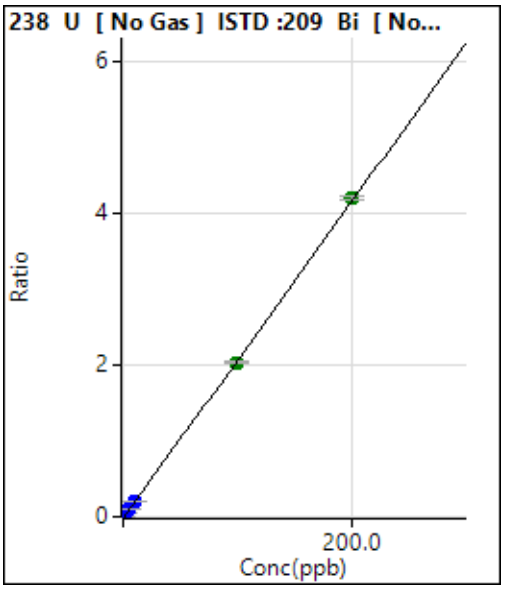
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2323.46	0.0005	P	5.2	
2	☐	2.000	1.983	182555.67	0.0375	P	1.1	-0.8
3	☐	5.000	5.001	452680.68	0.0939	P	1.6	0.0
4	☐	10.000	9.922	900363.97	0.1858	P	1.0	-0.8
5	☐	100.000	98.116	8420353.73	1.8333	A	2.1	-1.9
6	☐	200.000	200.946	16660976.42	3.7541	A	0.8	0.5

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

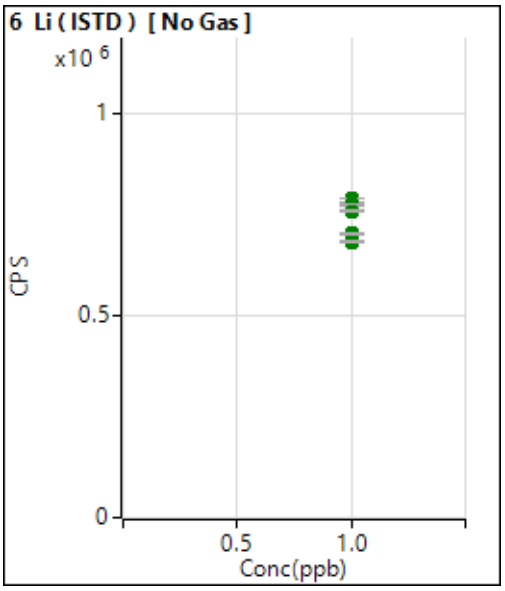
Weight: <None>
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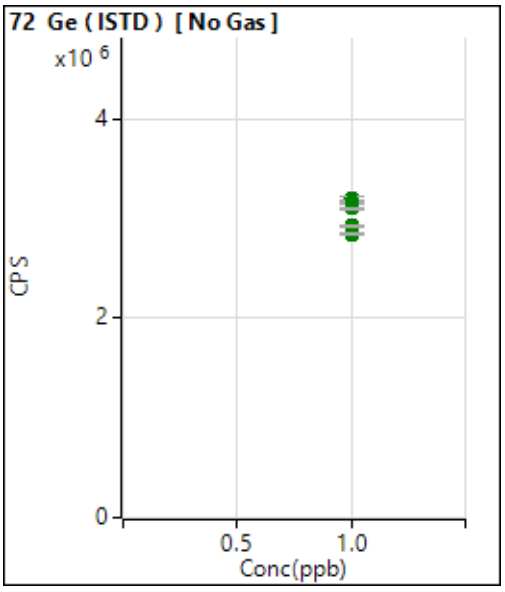
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1480.12	0.0003	P	5.6	
2	☐	2.000	1.852	189250.53	0.0389	P	0.7	-7.4
3	☐	5.000	4.679	471674.98	0.0978	P	0.8	-6.4
4	☐	10.000	9.283	938876.92	0.1938	P	0.9	-7.2
5	☐	100.000	97.517	9336513.61	2.0327	A	1.8	-2.5
6	☐	200.000	201.287	18618820.56	4.1953	A	1.2	0.6

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

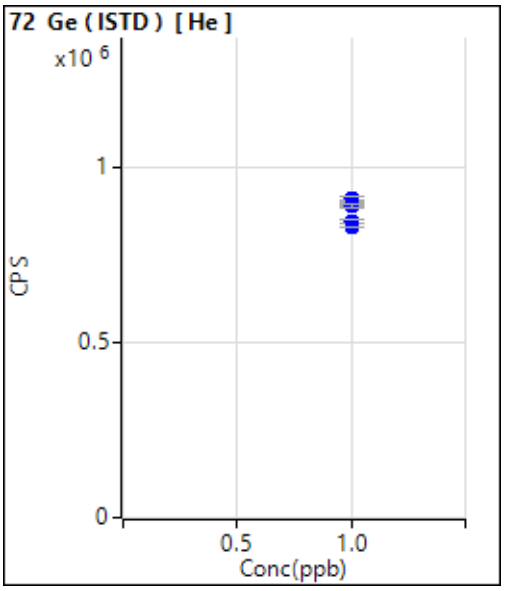
Weight: <None>
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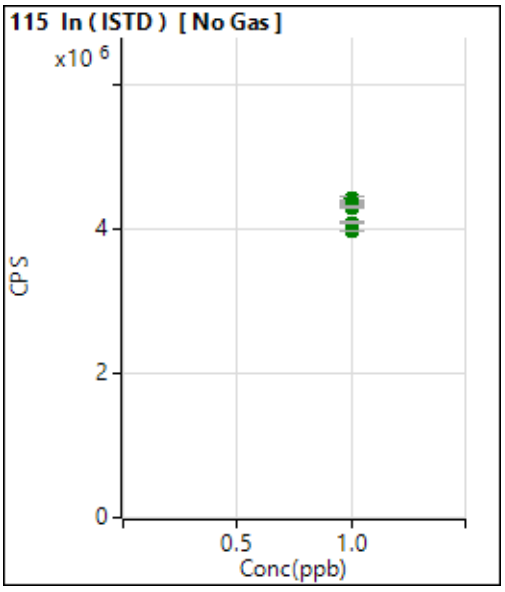
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		789600.72		A	0.1	
2	☐	1.000		775224.95		A	0.7	
3	☐	1.000		773452.79		A	0.2	
4	☐	1.000		758349.11		A	0.7	
5	☐	1.000		702121.63		A	0.9	
6	☐	1.000		682313.47		A	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3202766.93		A	1.1	
2	☐	1.000		3158043.81		A	0.8	
3	☐	1.000		3147283.08		A	0.4	
4	☐	1.000		3105103.60		A	0.7	
5	☐	1.000		2923348.81		A	0.8	
6	☐	1.000		2838106.21		A	0.7	

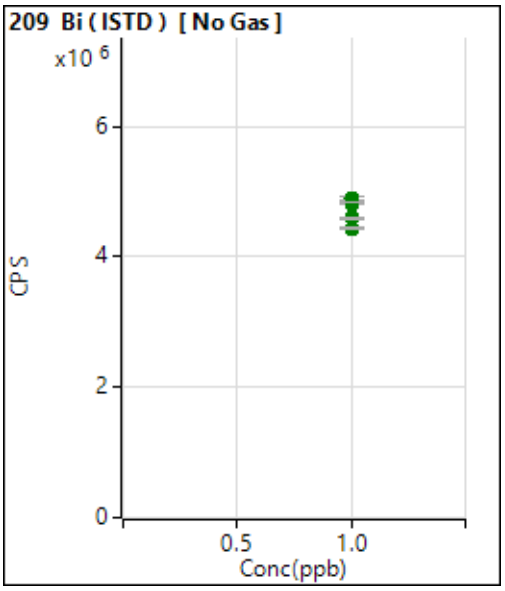


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		909952.25		P	1.0	
2	☐	1.000		893987.98		P	0.8	
3	☐	1.000		891524.36		P	0.4	
4	☐	1.000		886961.47		P	0.9	
5	☐	1.000		844684.91		P	1.3	
6	☐	1.000		827580.22		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4425209.38		A	0.8	
2	☐	1.000		4373188.50		A	0.2	
3	☐	1.000		4339244.30		A	0.7	
4	☐	1.000		4303189.89		A	0.2	
5	☐	1.000		4085281.93		A	0.7	
6	☐	1.000		3968529.13		A	0.3	

Calibration for 172_ICV.d



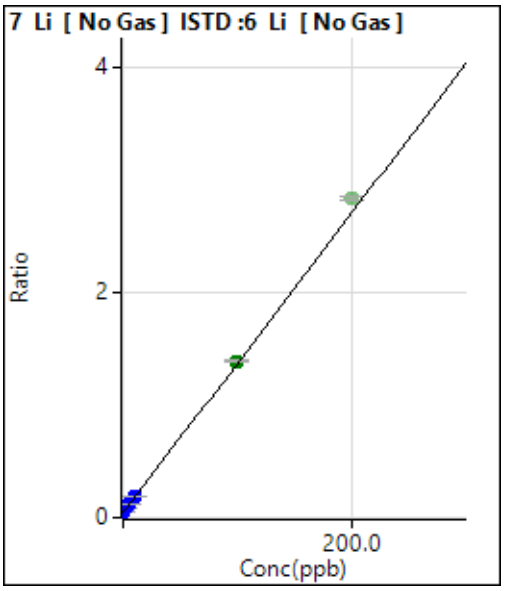
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4898592.22		A	0.6	
2	☐	1.000		4865545.24		A	0.6	
3	☐	1.000		4821597.12		A	0.7	
4	☐	1.000		4845240.35		A	0.3	
5	☐	1.000		4593412.85		A	0.6	
6	☐	1.000		4438006.81		A	0.5	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/28/2024 10:48:54 AM
2	011CALS.d	2/10/200	6/28/2024 10:51:37 AM
3	012CALS.d	5/25/500	6/28/2024 10:54:18 AM
4	013CALS.d	10/50/100	6/28/2024 10:56:58 AM
5	014CALS.d	100/500/10K	6/28/2024 10:59:39 AM
6	015CALS.d	200/1000/20K	6/28/2024 11:02:18 AM

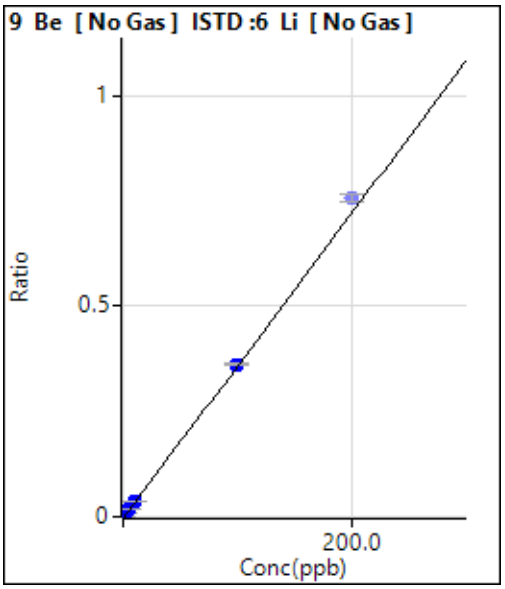
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53693.95	0.0580	P	0.8	
2	☐	2.000	1.985	76827.04	0.0844	P	0.8	-0.8
3	☐	5.000	4.966	111419.71	0.1240	P	2.0	-0.7
4	☐	10.000	9.951	168866.07	0.1903	P	1.1	-0.5
5	☐	100.000	100.007	1132266.78	1.3869	A	1.7	0.0
6	☑	200.000		2170636.01	2.8328	A	1.4	

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

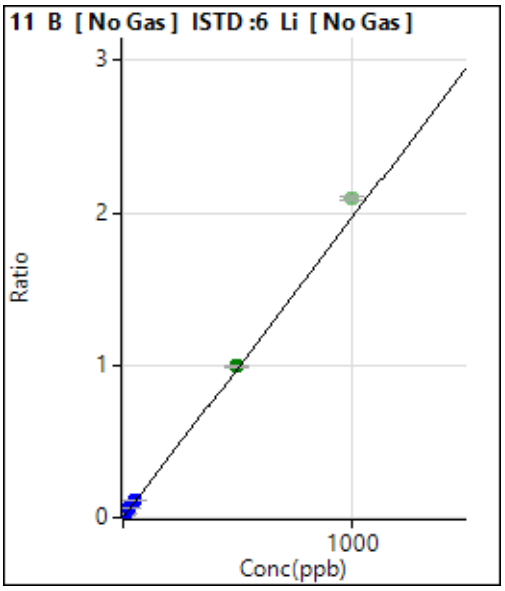


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	21.9	
2	☐	2.000	1.940	6486.52	0.0071	P	3.3	-3.0
3	☐	5.000	4.865	15915.62	0.0177	P	5.9	-2.7
4	☐	10.000	9.972	32139.60	0.0362	P	1.2	-0.3
5	☐	100.000	100.011	295776.38	0.3623	P	1.9	0.0
6	☑	200.000		580133.38	0.7571	P	2.2	

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

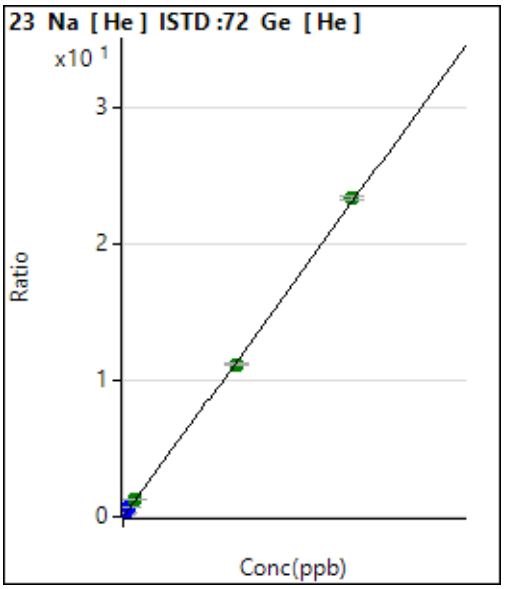
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10485.62	0.0113	P	1.5	
2	☐	10.000	9.335	27000.62	0.0297	P	1.8	-6.6
3	☐	25.000	24.615	53607.41	0.0597	P	3.3	-1.5
4	☐	50.000	49.444	96239.64	0.1084	P	1.1	-1.1
5	☐	500.000	500.088	811064.34	0.9934	A	1.8	0.0
6	☑	1000.000		1606226.28	2.0962	A	1.4	

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

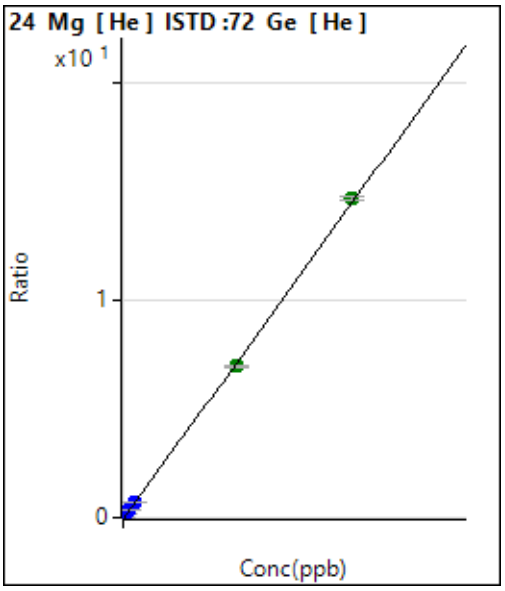
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68033.74	0.0869	P	1.0	
2	☐	200.000	194.421	241881.29	0.3106	P	2.2	-2.8
3	☐	500.000	497.467	512046.74	0.6594	P	1.1	-0.5
4	☐	1000.000	1007.977	958747.62	1.2469	A	2.0	0.8
5	☐	10000.00	9605.169	8244615.92	11.1412	A	1.2	-3.9
6	☐	20000.00	20197.13	16883068.50	23.3311	A	1.5	1.0

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

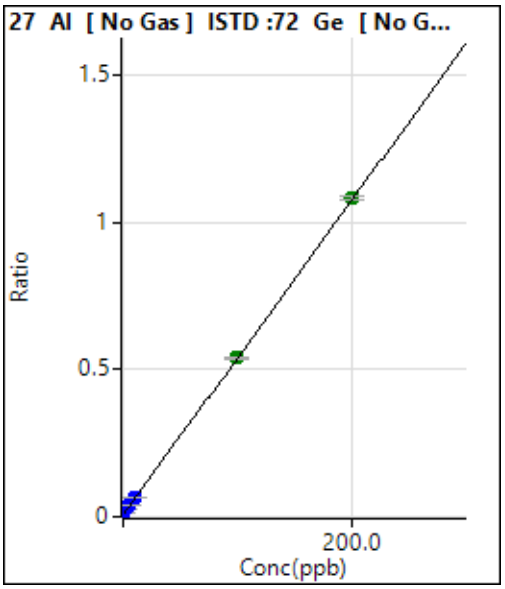
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1630.12	0.0021	P	7.2	
2	☐	200.000	190.440	109586.99	0.1407	P	4.6	-4.8
3	☐	500.000	491.846	279702.50	0.3602	P	1.3	-1.6
4	☐	1000.000	997.385	559962.84	0.7283	P	1.8	-0.3
5	☐	10000.00	9579.136	5162817.63	6.9765	A	1.5	-4.2
6	☐	20000.00	20210.86	10649836.92	14.7174	A	1.7	1.1

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

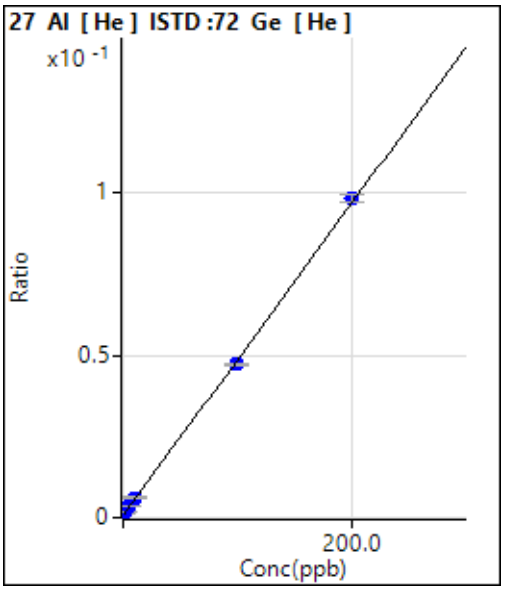


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	34101.58	0.0123	P	2.5	
2	☐	2.000	2.117	65264.21	0.0236	P	1.6	5.9
3	☐	5.000	4.999	106947.31	0.0390	P	1.5	0.0
4	☐	10.000	10.403	185299.17	0.0679	P	1.3	4.0
5	☐	100.000	98.785	1416939.09	0.5399	A	1.6	-1.2
6	☐	200.000	200.586	2757465.17	1.0836	A	1.4	0.3

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

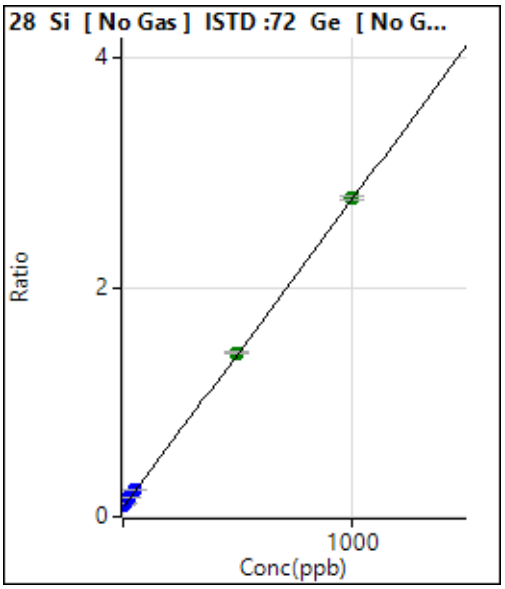
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	930.05	0.0012	P	8.3	
2	☐	2.000	1.636	1536.78	0.0020	P	4.7	-18.2
3	☐	5.000	4.780	2706.97	0.0035	P	1.5	-4.4
4	☐	10.000	10.172	4674.20	0.0061	P	7.8	1.7
5	☐	100.000	95.743	34950.40	0.0472	P	1.5	-4.3
6	☐	200.000	202.129	71196.14	0.0984	P	2.2	1.1

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

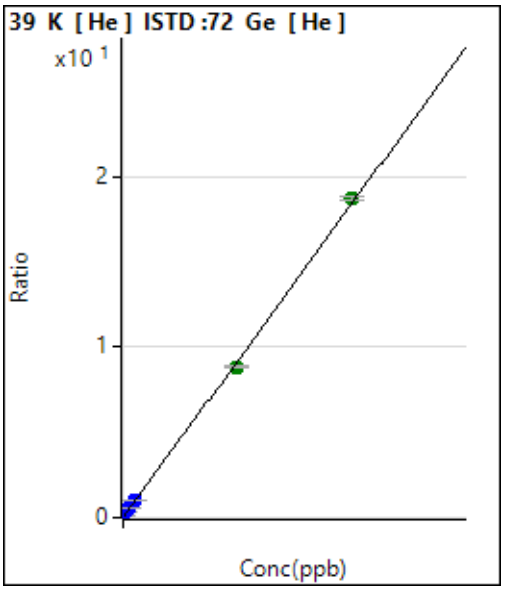
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	259377.48	0.0937	P	3.4	
2	☐	10.000	10.538	336928.11	0.1220	P	1.4	5.4
3	☐	25.000	26.114	448739.76	0.1637	P	1.7	4.5
4	☐	50.000	52.538	640435.47	0.2346	P	0.5	5.1
5	☐	500.000	496.287	3738979.43	1.4247	A	1.2	-0.7
6	☐	1000.000	1001.696	7074832.81	2.7802	A	0.9	0.2

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

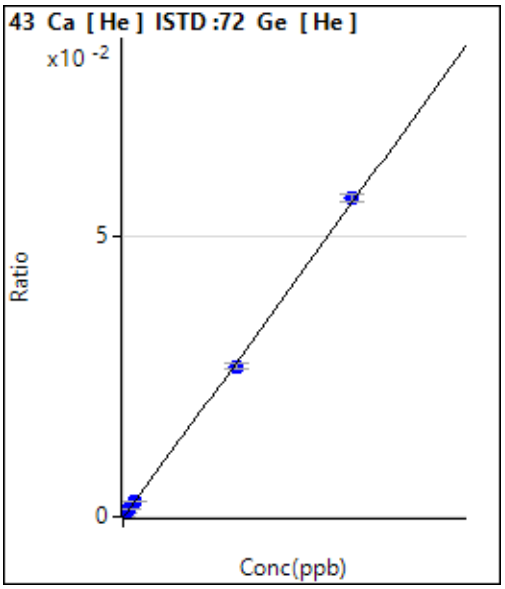
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86238.61	0.1101	P	1.9	
2	☐	200.000	190.632	222088.86	0.2852	P	1.8	-4.7
3	☐	500.000	484.177	430864.03	0.5548	P	1.6	-3.2
4	☐	1000.000	980.426	777098.58	1.0107	P	2.0	-2.0
5	☐	10000.00	9496.081	6536171.36	8.8326	A	0.8	-5.0
6	☐	20000.00	20253.42	13541562.71	18.7136	A	1.8	1.3

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

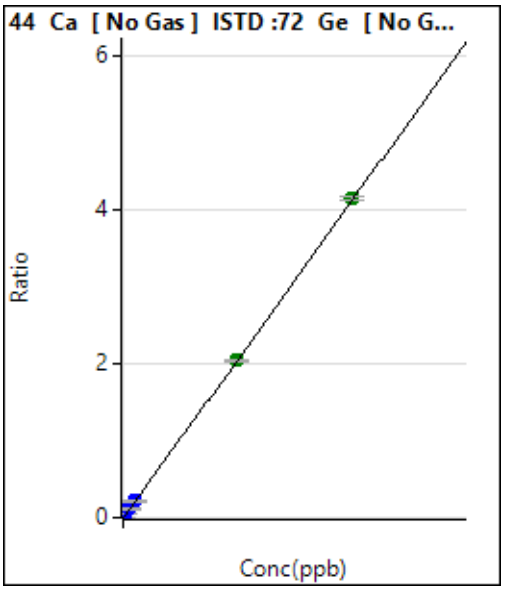


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	58.6	
2	☐	200.000	198.303	476.68	0.0006	P	13.7	-0.8
3	☐	500.000	484.738	1100.06	0.0014	P	8.6	-3.1
4	☐	1000.000	957.754	2110.20	0.0027	P	10.7	-4.2
5	☐	10000.00	9543.795	19871.21	0.0268	P	4.8	-4.6
6	☐	20000.00	20230.61	41137.64	0.0569	P	2.1	1.2

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

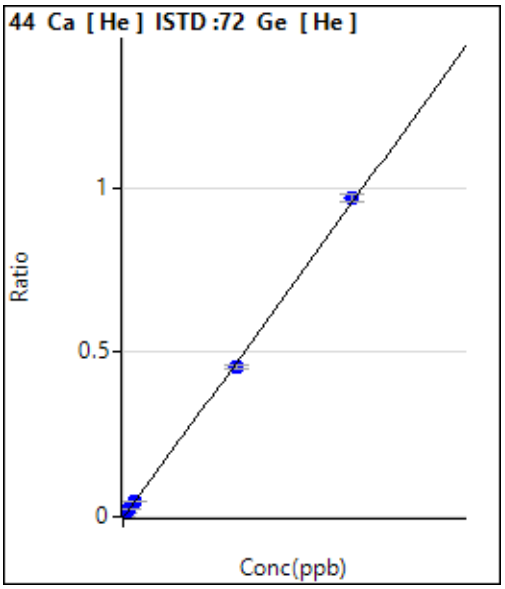
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28997.33	0.0105	P	2.7	
2	☐	200.000	196.142	140482.65	0.0509	P	2.7	-1.9
3	☐	500.000	495.867	308521.45	0.1126	P	0.8	-0.8
4	☐	1000.000	988.159	583938.00	0.2139	P	2.4	-1.2
5	☐	10000.00	9843.692	5346373.77	2.0372	A	1.7	-1.6
6	☐	20000.00	20078.88	10546593.38	4.1445	A	1.0	0.4

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

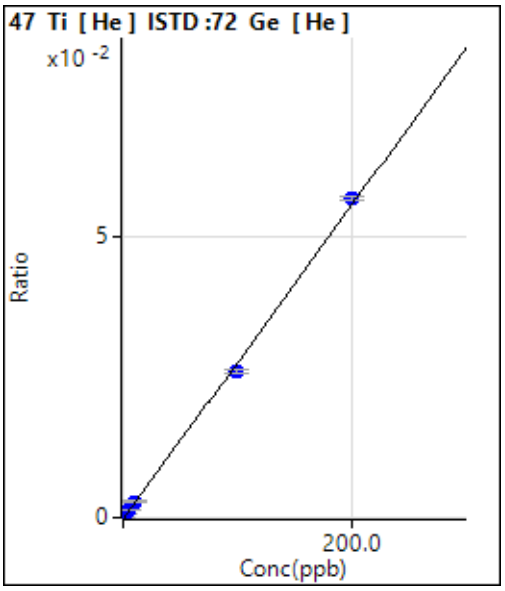
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0008	P	3.6	
2	☐	200.000	197.813	7985.77	0.0103	P	7.2	-1.1
3	☐	500.000	480.803	18499.27	0.0238	P	2.9	-3.8
4	☐	1000.000	969.695	36334.41	0.0473	P	2.6	-3.0
5	☐	10000.00	9534.462	338794.68	0.4578	P	2.8	-4.7
6	☐	20000.00	20234.78	702419.83	0.9707	P	1.9	1.2

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

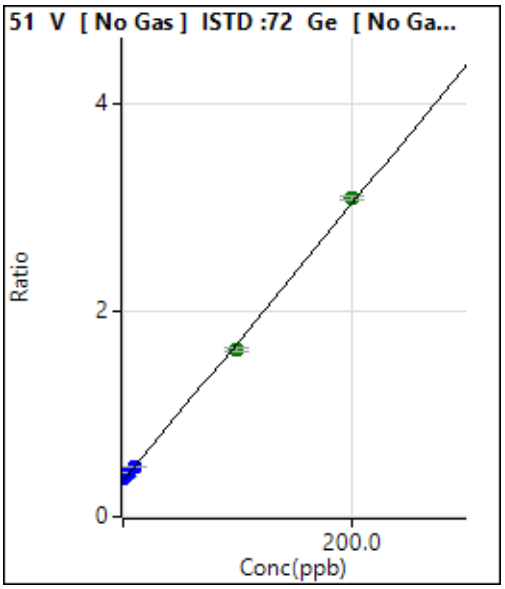
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	173.2	
2	☐	2.000	2.454	543.36	0.0007	P	8.7	22.7
3	☐	5.000	4.629	1013.39	0.0013	P	7.7	-7.4
4	☐	10.000	9.989	2153.54	0.0028	P	9.8	-0.1
5	☐	100.000	93.218	19263.64	0.0260	P	3.7	-6.8
6	☐	200.000	203.396	41087.74	0.0568	P	1.1	1.7

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

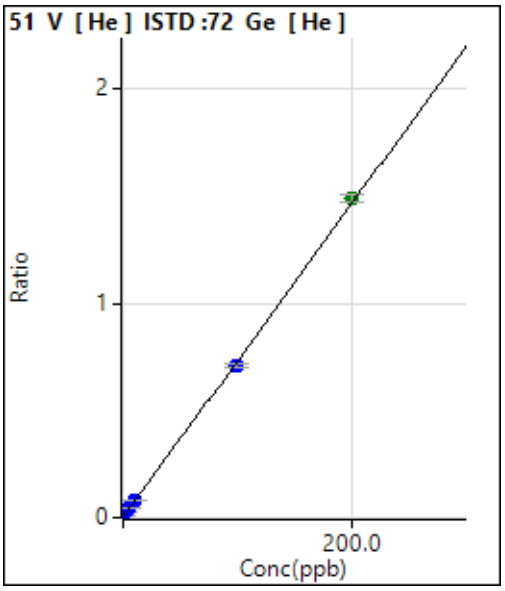


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010954.48	0.3652	P	0.5	
2	☐	2.000	1.938	1080650.24	0.3912	P	1.3	-3.1
3	☐	5.000	4.355	1161135.25	0.4236	P	1.4	-12.9
4	☐	10.000	8.883	1322173.21	0.4844	P	1.4	-11.2
5	☐	100.000	93.506	4249706.16	1.6193	A	1.3	-6.5
6	☐	200.000	203.320	7868543.93	3.0921	A	0.8	1.7

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

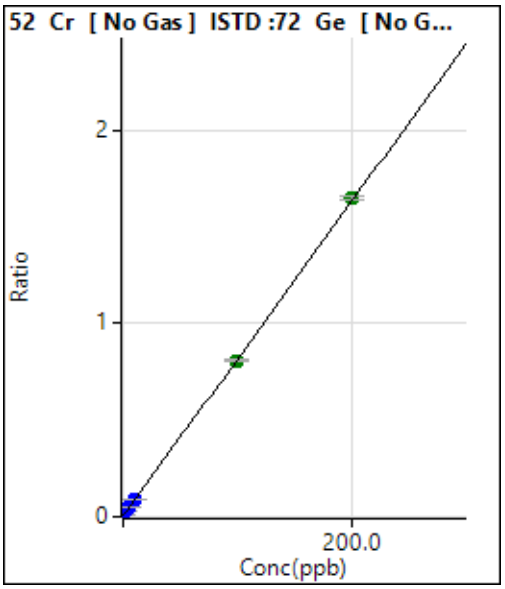
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7209.69	0.0092	P	2.4	
2	☐	2.000	1.919	18096.30	0.0232	P	2.3	-4.0
3	☐	5.000	4.763	34195.37	0.0440	P	1.8	-4.7
4	☐	10.000	9.839	62395.05	0.0811	P	2.8	-1.6
5	☐	100.000	95.172	521843.03	0.7052	P	2.4	-4.8
6	☐	200.000	202.429	1077786.55	1.4895	A	2.4	1.2

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

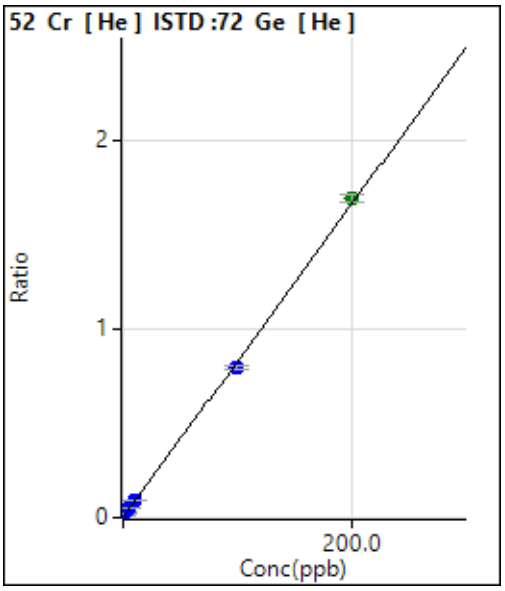
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	34286.10	0.0124	P	1.8	
2	☐	2.000	1.958	78226.70	0.0283	P	2.6	-2.1
3	☐	5.000	5.009	145663.94	0.0531	P	3.9	0.2
4	☐	10.000	9.909	253873.25	0.0930	P	1.7	-0.9
5	☐	100.000	97.835	2121565.39	0.8084	A	0.9	-2.2
6	☐	200.000	201.087	4195007.34	1.6485	A	0.6	0.5

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

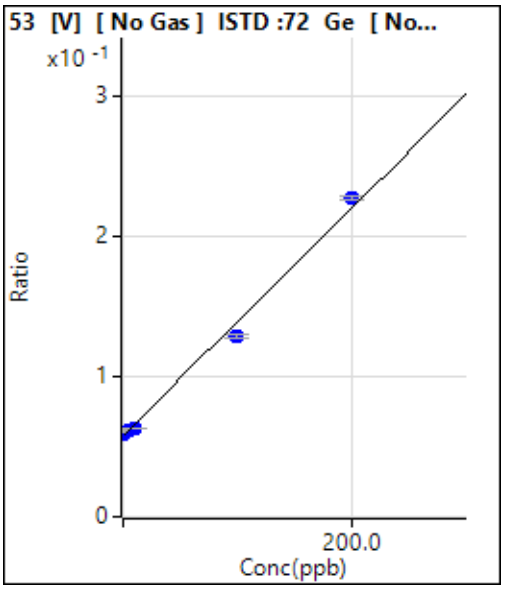
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.88	0.0097	P	5.4	
2	☐	2.000	1.911	19941.23	0.0256	P	1.7	-4.5
3	☐	5.000	4.811	38614.11	0.0497	P	1.2	-3.8
4	☐	10.000	9.993	71366.91	0.0928	P	1.5	-0.1
5	☐	100.000	94.508	588850.85	0.7957	P	2.1	-5.5
6	☐	200.000	202.752	1227189.22	1.6959	A	2.3	1.4

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

Weight: <None>
Min Conc: <None>

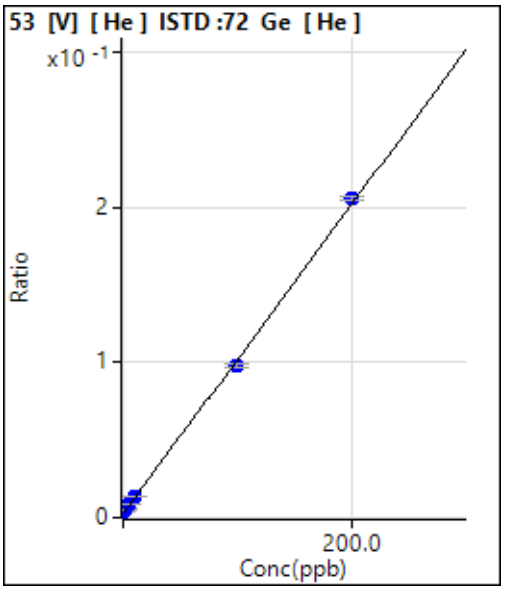


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	164036.67	0.0593	P	0.7	
2	☐	2.000	1.732	167571.12	0.0607	P	1.2	-13.4
3	☐	5.000	2.193	167297.96	0.0610	P	1.2	-56.1
4	☐	10.000	5.018	172871.46	0.0633	P	1.1	-49.8
5	☐	100.000	85.756	337990.58	0.1288	P	1.4	-14.2
6	☐	200.000	207.444	578785.28	0.2274	P	1.3	3.7

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

Weight: <None>
Min Conc: <None>

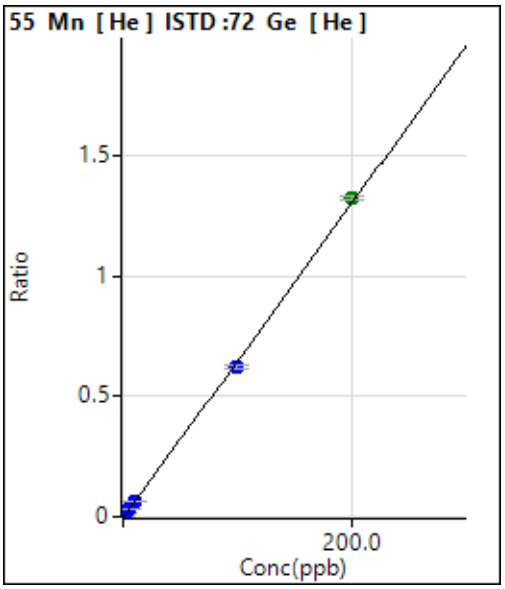
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2793.66	0.0036	P	5.9	
2	☐	2.000	1.858	4217.40	0.0054	P	6.4	-7.1
3	☐	5.000	4.727	6424.93	0.0083	P	4.7	-5.5
4	☐	10.000	9.708	10177.27	0.0132	P	2.1	-2.9
5	☐	100.000	94.230	72100.88	0.0974	P	2.8	-5.8
6	☐	200.000	202.908	148836.68	0.2057	P	1.5	1.5

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

Weight: <None>
Min Conc: <None>

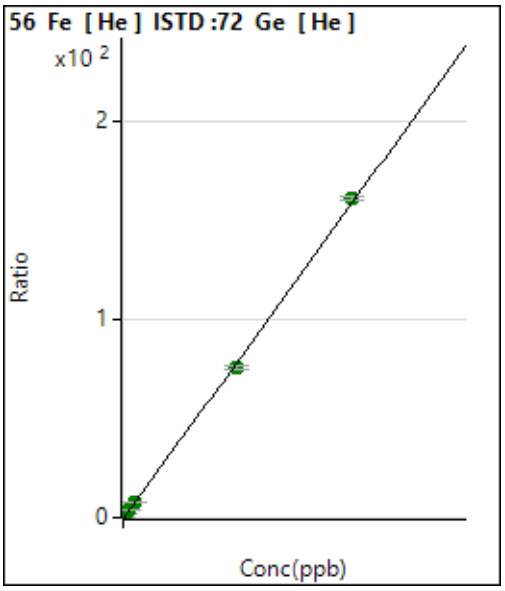


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	776.70	0.0010	P	11.6	
2	☐	2.000	1.878	10347.38	0.0133	P	5.0	-6.1
3	☐	5.000	4.784	25089.77	0.0323	P	3.8	-4.3
4	☐	10.000	9.943	50810.52	0.0661	P	3.3	-0.6
5	☐	100.000	95.066	461277.27	0.6233	P	1.9	-4.9
6	☐	200.000	202.476	959867.75	1.3264	A	1.3	1.2

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

Weight: <None>
Min Conc: <None>

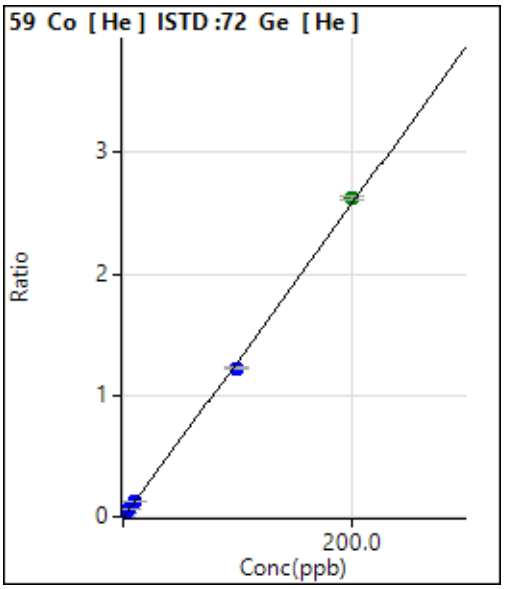
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19894.62	0.0254	P	1.6	
2	☐	200.000	189.312	1196572.38	1.5366	A	2.4	-5.3
3	☐	500.000	485.044	3026576.73	3.8974	A	1.8	-3.0
4	☐	1000.000	995.855	6132018.24	7.9751	A	2.3	-0.4
5	☐	10000.00	9544.277	56402962.49	76.2156	A	2.2	-4.6
6	☐	20000.00	20228.54	116870611.5	161.506	A	1.5	1.1

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

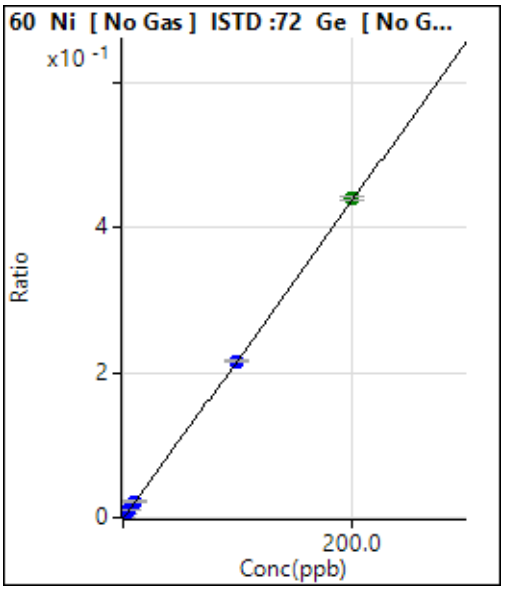
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0004	P	8.8	
2	☐	2.000	1.884	19307.12	0.0248	P	2.7	-5.8
3	☐	5.000	4.849	49050.62	0.0632	P	0.8	-3.0
4	☐	10.000	9.818	98006.73	0.1275	P	3.4	-1.8
5	☐	100.000	94.319	903636.13	1.2211	P	1.6	-5.7
6	☐	200.000	202.855	1900057.73	2.6258	A	1.4	1.4

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

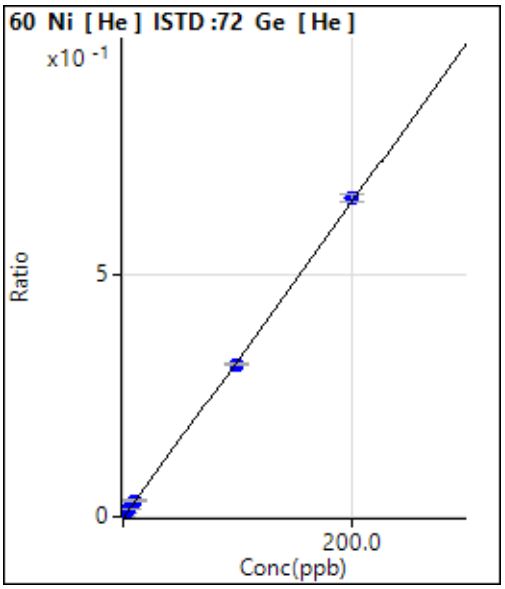
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0003	P	9.3	
2	☐	2.000	2.008	13033.04	0.0047	P	1.3	0.4
3	☐	5.000	5.064	31312.63	0.0114	P	3.4	1.3
4	☐	10.000	10.130	61523.56	0.0225	P	1.3	1.3
5	☐	100.000	98.261	566638.22	0.2159	P	1.6	-1.7
6	☐	200.000	200.861	1122317.56	0.4410	A	0.9	0.4

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

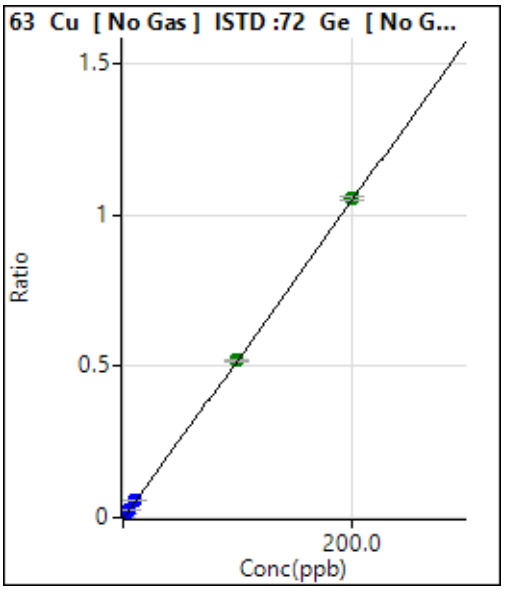
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0003	P	12.9	
2	☐	2.000	1.952	5237.76	0.0067	P	2.7	-2.4
3	☐	5.000	4.915	12756.10	0.0164	P	0.8	-1.7
4	☐	10.000	10.055	25567.34	0.0333	P	5.7	0.5
5	☐	100.000	96.516	234079.81	0.3163	P	1.9	-3.5
6	☐	200.000	201.742	478169.86	0.6608	P	2.4	0.9

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

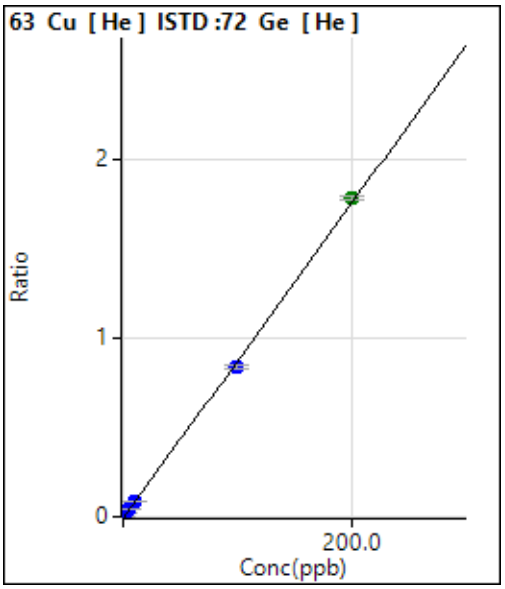
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1626.79	0.0006	P	4.9	
2	☐	2.000	2.049	31429.43	0.0114	P	2.2	2.4
3	☐	5.000	5.130	75661.23	0.0276	P	2.4	2.6
4	☐	10.000	10.296	149626.46	0.0548	P	1.1	3.0
5	☐	100.000	98.696	1365690.09	0.5204	A	1.1	-1.3
6	☐	200.000	200.634	2690477.04	1.0573	A	1.3	0.3

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

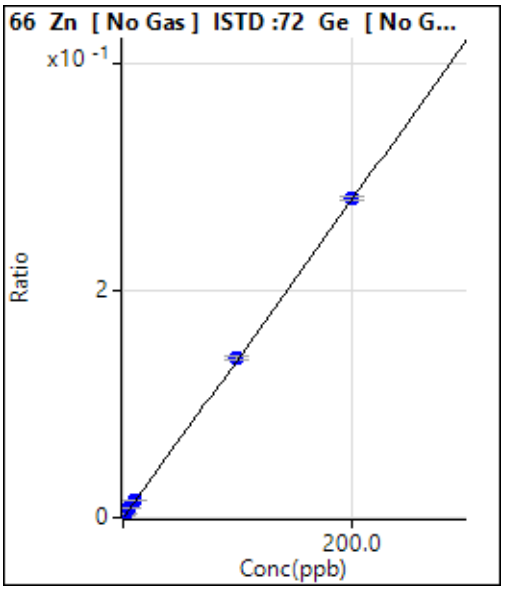


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0008	P	9.9	
2	☐	2.000	1.975	14180.86	0.0182	P	4.3	-1.3
3	☐	5.000	4.975	34727.63	0.0447	P	1.8	-0.5
4	☐	10.000	10.086	69106.74	0.0899	P	1.3	0.9
5	☐	100.000	95.361	624093.85	0.8433	P	2.0	-4.6
6	☐	200.000	202.316	1294061.54	1.7883	A	1.6	1.2

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

Weight: <None>
Min Conc: <None>

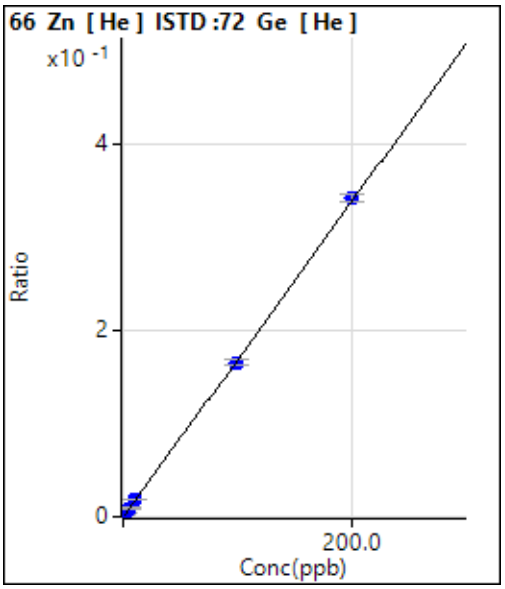
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2456.93	0.0009	P	5.3	
2	☐	2.000	2.026	10294.06	0.0037	P	4.1	1.3
3	☐	5.000	5.306	22809.26	0.0083	P	2.9	6.1
4	☐	10.000	10.338	41957.74	0.0154	P	2.6	3.4
5	☐	100.000	99.672	368847.17	0.1405	P	1.8	-0.3
6	☐	200.000	200.139	715848.79	0.2813	P	1.0	0.1

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

Weight: <None>
Min Conc: <None>

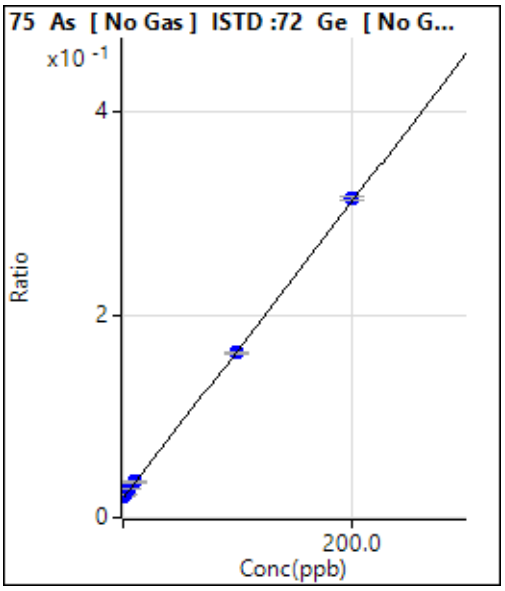


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	906.71	0.0012	P	7.6	
2	☐	2.000	2.012	3553.88	0.0046	P	3.1	0.6
3	☐	5.000	4.753	7145.32	0.0092	P	1.6	-4.9
4	☐	10.000	9.920	13800.40	0.0179	P	2.4	-0.8
5	☐	100.000	97.220	122634.62	0.1657	P	3.2	-2.8
6	☐	200.000	201.400	247505.45	0.3420	P	2.0	0.7

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

Weight: <None>
Min Conc: <None>

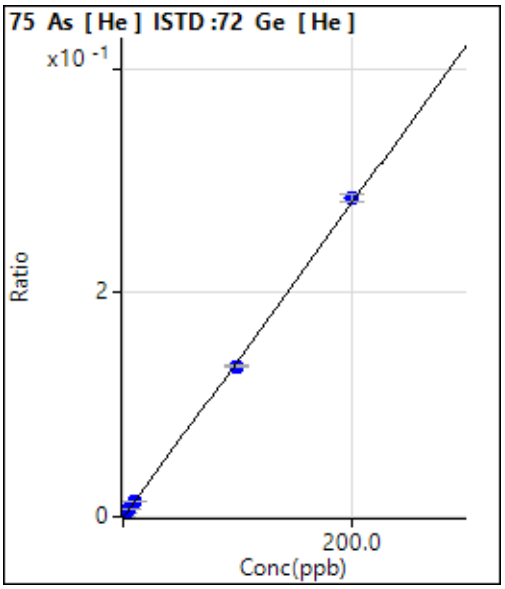
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57340.72	0.0207	P	0.5	
2	☐	2.000	2.035	65440.12	0.0237	P	0.3	1.7
3	☐	5.000	5.200	77617.38	0.0283	P	1.1	4.0
4	☐	10.000	10.000	96456.09	0.0353	P	2.5	0.0
5	☐	100.000	97.055	426818.08	0.1626	P	1.6	-2.9
6	☐	200.000	201.467	802394.62	0.3153	P	1.6	0.7

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

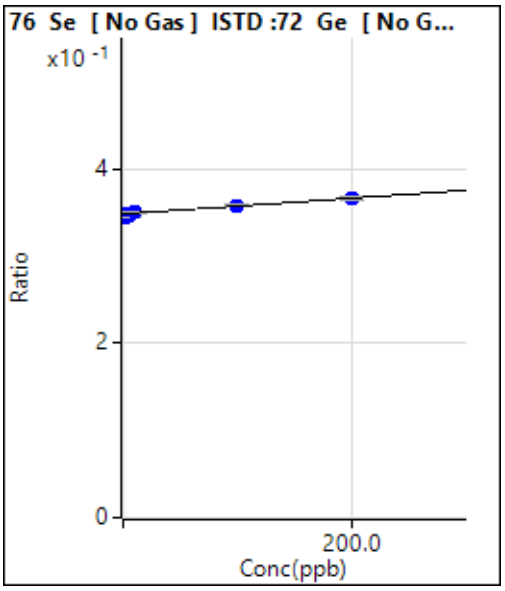
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.67	0.0004	P	7.2	
2	☐	2.000	1.966	2464.68	0.0032	P	3.0	-1.7
3	☐	5.000	4.843	5595.62	0.0072	P	2.4	-3.1
4	☐	10.000	9.642	10723.13	0.0139	P	2.2	-3.6
5	☐	100.000	95.160	99197.46	0.1341	P	1.0	-4.8
6	☐	200.000	202.442	206029.47	0.2847	P	2.4	1.2

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

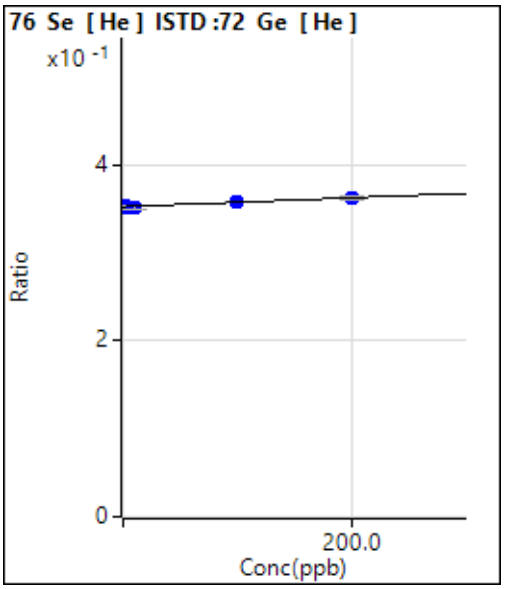
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	964449.83	0.3484	P	0.7	
2	☐	2.000	-34.153	953861.89	0.3453	P	0.1	-1807.7
3	☐	5.000	-12.512	951751.63	0.3473	P	1.2	-350.2
4	☐	10.000	22.069	956605.06	0.3504	P	0.7	120.7
5	☐	100.000	106.437	939797.64	0.3581	P	0.6	6.4
6	☐	200.000	196.977	932289.20	0.3664	P	1.0	-1.5

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

Weight: <None>
Min Conc: <None>

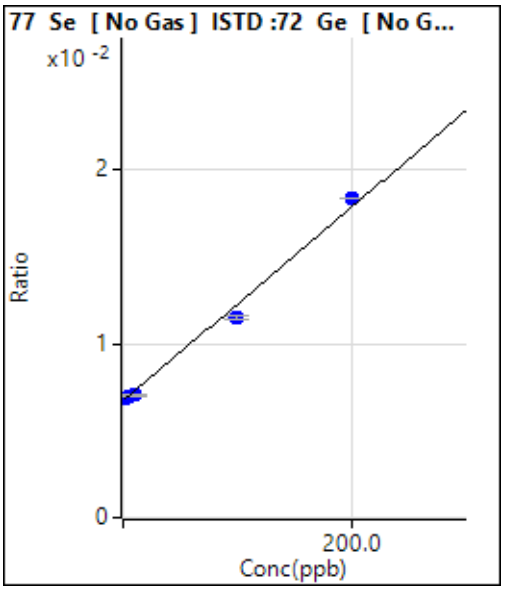


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276120.31	0.3525	P	0.7	
2	☐	2.000	2.937	274652.09	0.3527	P	0.6	46.9
3	☐	5.000	-19.736	272962.69	0.3515	P	0.2	-494.7
4	☐	10.000	-14.902	270475.83	0.3518	P	1.2	-249.0
5	☐	100.000	116.662	265320.74	0.3586	P	0.2	16.7
6	☐	200.000	193.523	262331.56	0.3625	P	1.0	-3.2

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

Weight: <None>
Min Conc: <None>

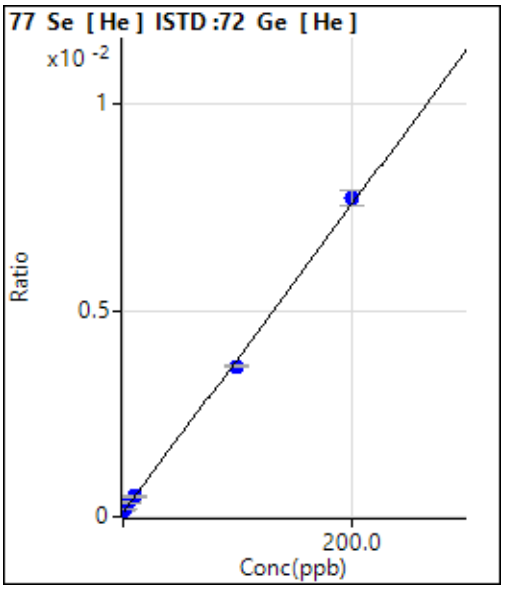
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.33	0.0068	P	1.3	
2	☐	2.000	0.484	18926.85	0.0069	P	2.9	-75.8
3	☐	5.000	3.393	19223.86	0.0070	P	1.9	-32.1
4	☐	10.000	3.949	19230.54	0.0070	P	0.6	-60.5
5	☐	100.000	84.919	30290.71	0.0115	P	2.3	-15.1
6	☐	200.000	207.898	46760.28	0.0184	P	0.5	3.9

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

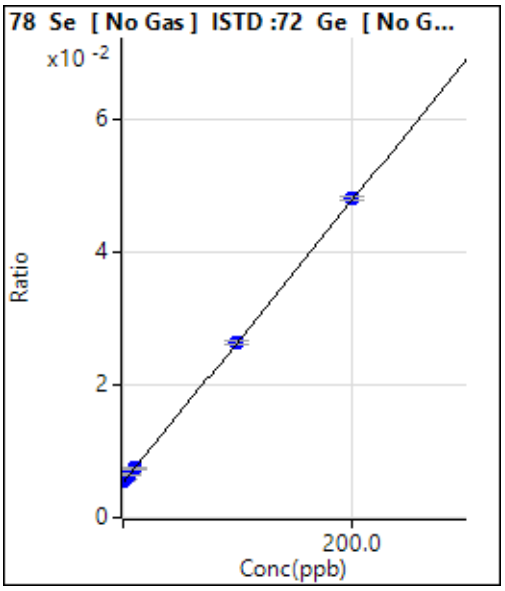
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0001	P	4.8	
2	☐	2.000	1.171	146.67	0.0002	P	21.0	-41.4
3	☐	5.000	5.674	276.68	0.0004	P	9.6	13.5
4	☐	10.000	9.252	376.68	0.0005	P	17.0	-7.5
5	☐	100.000	93.540	2690.32	0.0036	P	1.4	-6.5
6	☐	200.000	203.259	5594.58	0.0077	P	4.4	1.6

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

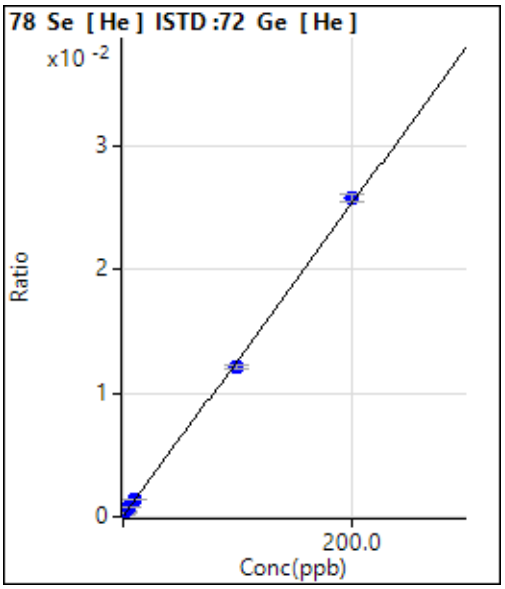
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15248.81	0.0055	P	1.6	
2	☐	2.000	1.431	16053.06	0.0058	P	2.2	-28.5
3	☐	5.000	4.536	17731.87	0.0065	P	3.1	-9.3
4	☐	10.000	9.201	20355.46	0.0075	P	4.4	-8.0
5	☐	100.000	98.554	69225.47	0.0264	P	1.5	-1.4
6	☐	200.000	200.780	122204.65	0.0480	P	1.2	0.4

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

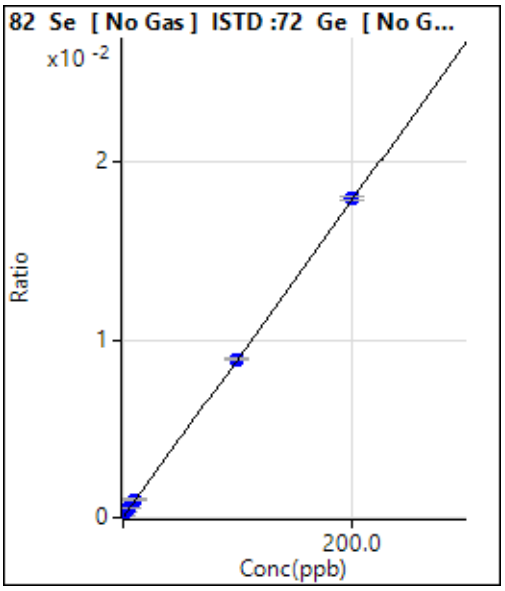
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	134.67	0.0002	P	9.2	
2	☐	2.000	1.723	303.34	0.0004	P	16.3	-13.9
3	☐	5.000	4.697	594.01	0.0008	P	7.0	-6.1
4	☐	10.000	9.783	1082.04	0.0014	P	5.0	-2.2
5	☐	100.000	94.578	8966.30	0.0121	P	2.7	-5.4
6	☐	200.000	202.732	18650.09	0.0258	P	2.3	1.4

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

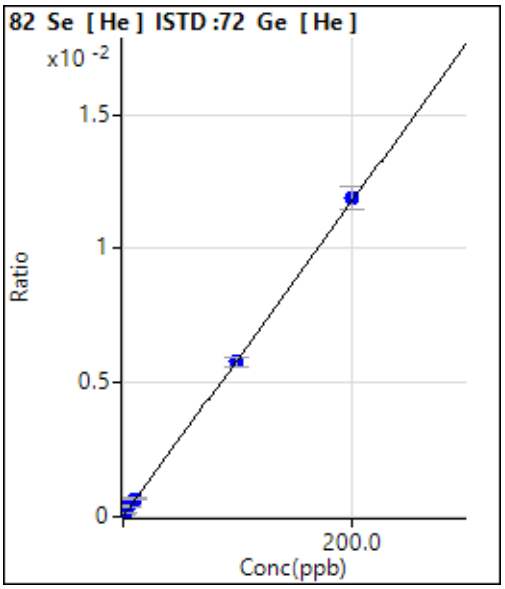
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	306.68	0.0001	P	16.5	
2	☐	2.000	1.873	766.70	0.0003	P	4.0	-6.3
3	☐	5.000	5.107	1550.12	0.0006	P	4.5	2.1
4	☐	10.000	10.196	2780.35	0.0010	P	9.0	2.0
5	☐	100.000	98.931	23413.94	0.0089	P	2.0	-1.1
6	☐	200.000	200.523	45723.90	0.0180	P	1.6	0.3

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

Weight: <None>
Min Conc: <None>

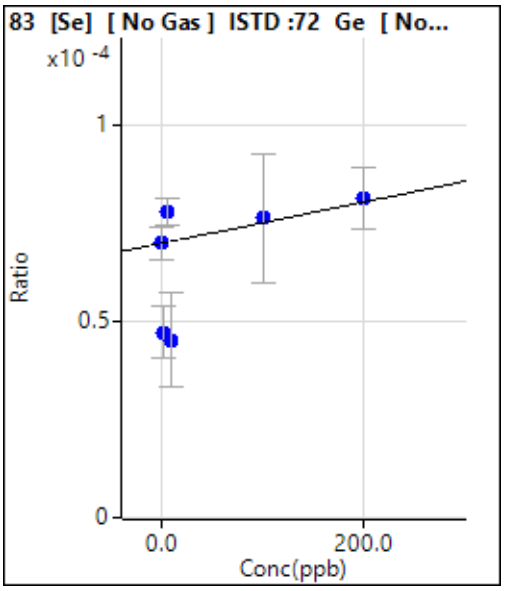


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	34.9	
2	☐	2.000	1.681	126.67	0.0002	P	16.7	-16.0
3	☐	5.000	6.072	326.68	0.0004	P	20.0	21.4
4	☐	10.000	10.420	520.02	0.0007	P	17.8	4.2
5	☐	100.000	97.308	4280.75	0.0058	P	6.3	-2.7
6	☐	200.000	201.301	8609.59	0.0119	P	7.0	0.7

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

Weight: <None>
Min Conc: <None>

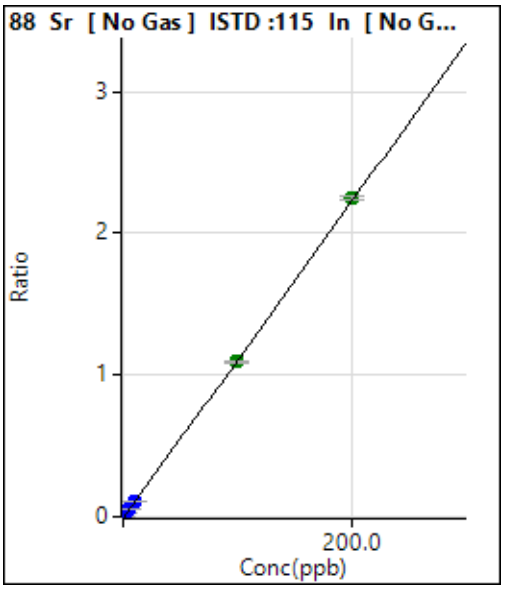
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	12.2	
2	☐	2.000	-431.078	130.00	0.0000	P	28.0	-21653.
3	☐	5.000	150.529	213.34	0.0001	P	9.1	2910.6
4	☐	10.000	-466.543	123.33	0.0000	P	52.8	-4765.4
5	☐	100.000	118.247	200.00	0.0001	P	42.7	18.2
6	☐	200.000	215.396	206.67	0.0001	P	19.7	7.7

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

Weight: <None>
Min Conc: <None>

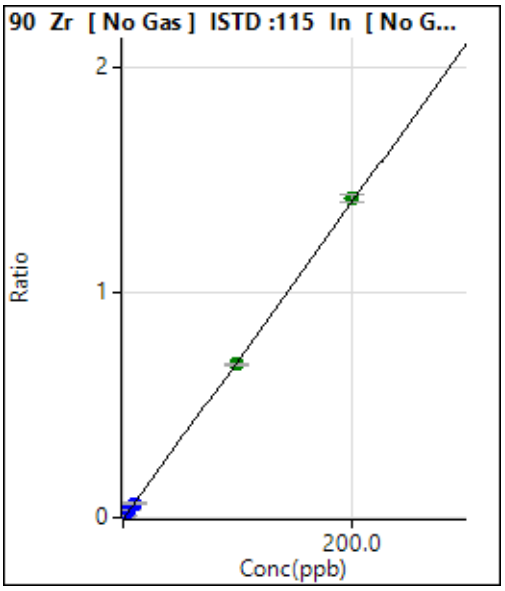


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2050.19	0.0006	P	8.6	
2	☐	2.000	1.968	81035.10	0.0226	P	1.6	-1.6
3	☐	5.000	4.962	200779.89	0.0560	P	3.4	-0.8
4	☐	10.000	9.858	398184.94	0.1108	P	1.7	-1.4
5	☐	100.000	97.569	3725471.09	1.0912	A	2.1	-2.4
6	☐	200.000	201.224	7444901.76	2.2499	A	1.4	0.6

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

Weight: <None>
Min Conc: <None>

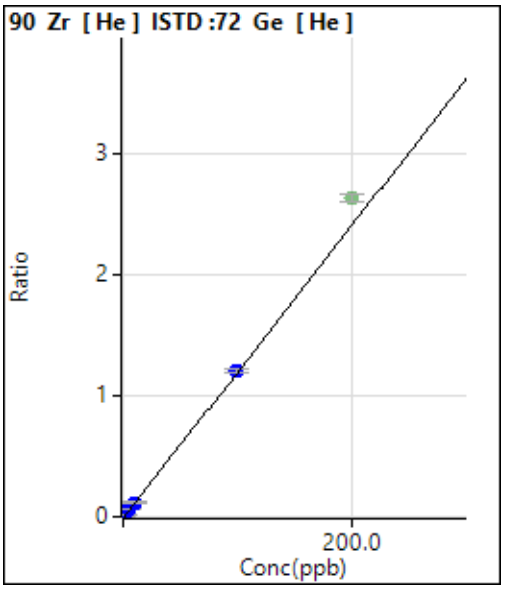
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0003	P	2.5	
2	☐	2.000	1.612	41905.50	0.0117	P	3.8	-19.4
3	☐	5.000	4.333	110428.43	0.0308	P	2.1	-13.3
4	☐	10.000	9.034	229720.13	0.0639	P	1.5	-9.7
5	☐	100.000	96.694	2324542.26	0.6809	A	2.2	-3.3
6	☐	200.000	201.722	4698977.22	1.4201	A	1.9	0.9

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

Weight: <None>
Min Conc: <None>

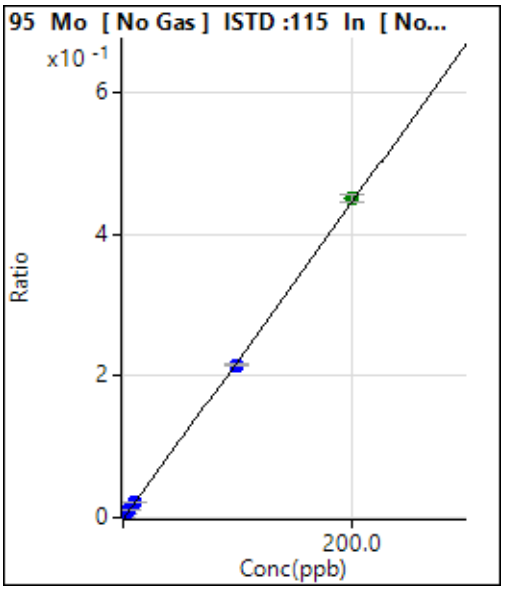


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0017	P	10.7	
2	☐	2.000	1.668	17021.02	0.0219	P	1.2	-16.6
3	☐	5.000	4.578	44252.81	0.0570	P	1.7	-8.4
4	☐	10.000	9.688	91260.17	0.1187	P	2.0	-3.1
5	☐	100.000	100.059	895303.56	1.2098	P	2.6	0.1
6	☑	200.000		1904685.70	2.6322	A	2.4	

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

Weight: <None>
Min Conc: <None>

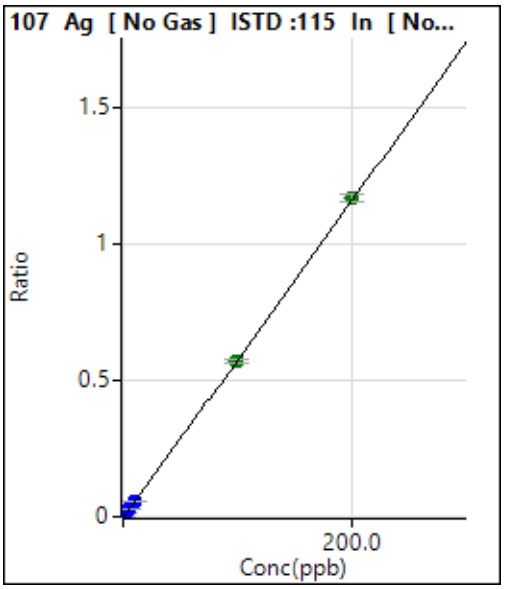
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0001	P	27.6	
2	☐	2.000	1.858	15132.06	0.0042	P	3.4	-7.1
3	☐	5.000	4.755	38274.67	0.0107	P	3.6	-4.9
4	☐	10.000	9.406	75722.19	0.0211	P	2.4	-5.9
5	☐	100.000	96.579	736414.84	0.2157	P	2.3	-3.4
6	☐	200.000	201.748	1490733.83	0.4505	A	2.2	0.9

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

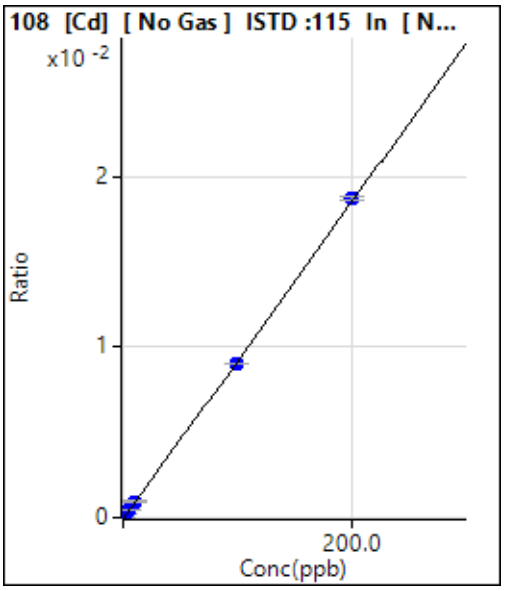
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.70	0.0002	P	12.6	
2	☐	2.000	1.995	42544.71	0.0118	P	3.3	-0.2
3	☐	5.000	5.072	106669.91	0.0298	P	2.2	1.4
4	☐	10.000	10.013	210517.69	0.0586	P	2.7	0.1
5	☐	100.000	98.055	1951426.84	0.5716	A	2.0	-1.9
6	☐	200.000	200.970	3875701.51	1.1713	A	1.9	0.5

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

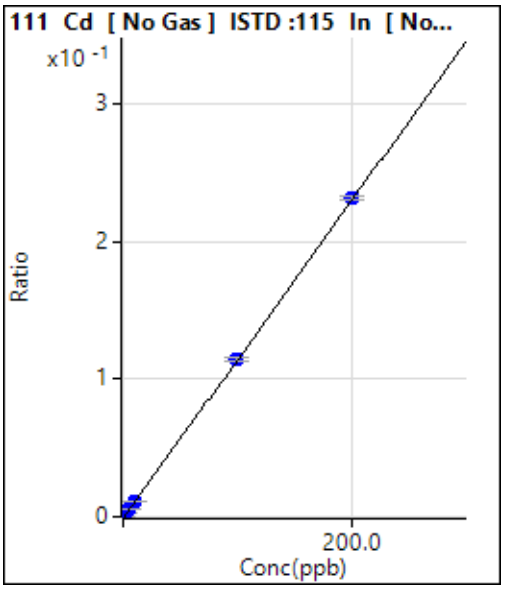
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.3	
2	☐	2.000	2.067	700.03	0.0002	P	18.7	3.3
3	☐	5.000	5.152	1726.81	0.0005	P	5.2	3.0
4	☐	10.000	10.151	3403.84	0.0009	P	3.3	1.5
5	☐	100.000	97.092	30835.77	0.0090	P	0.4	-2.9
6	☐	200.000	201.442	61997.17	0.0187	P	1.8	0.7

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

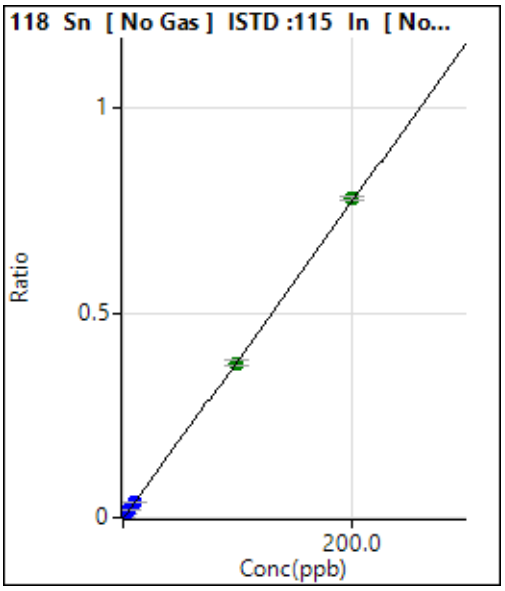
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79.27	0.0000	P	25.2	
2	☐	2.000	1.919	8051.91	0.0022	P	6.9	-4.1
3	☐	5.000	4.933	20522.90	0.0057	P	3.4	-1.3
4	☐	10.000	9.798	40825.51	0.0114	P	2.4	-2.0
5	☐	100.000	98.739	390069.23	0.1143	P	2.0	-1.3
6	☐	200.000	200.643	768181.74	0.2321	P	1.2	0.3

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

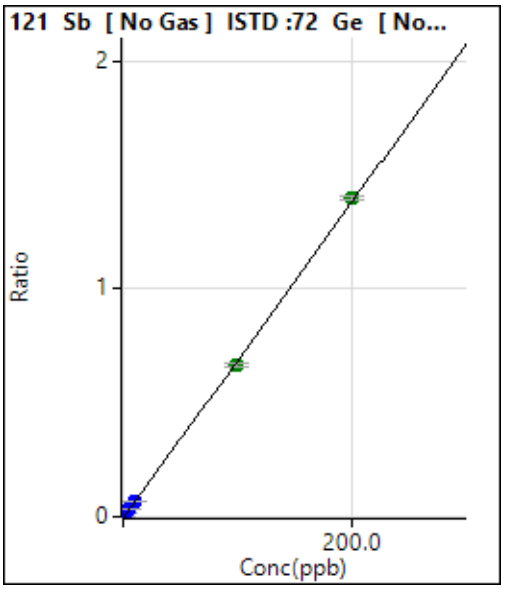
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3933.98	0.0011	P	5.3	
2	☐	2.000	1.961	31170.16	0.0087	P	0.7	-2.0
3	☐	5.000	4.885	71599.30	0.0200	P	0.9	-2.3
4	☐	10.000	9.745	139404.93	0.0388	P	2.1	-2.6
5	☐	100.000	97.395	1289413.81	0.3777	A	3.0	-2.6
6	☐	200.000	201.318	2579378.76	0.7795	A	1.4	0.7

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

Weight: <None>
Min Conc: <None>

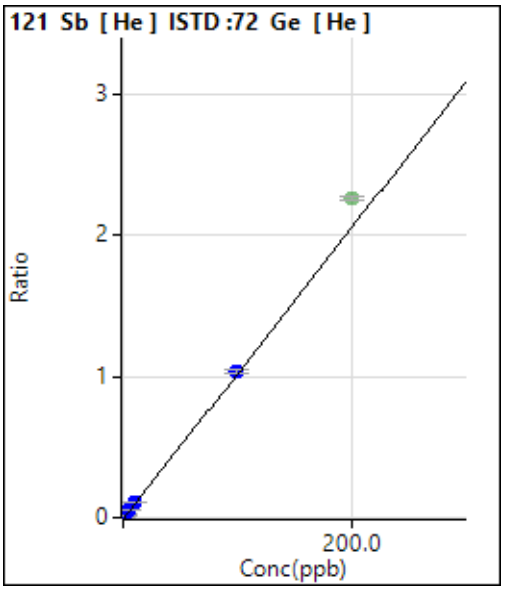


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0003	P	10.9	
2	☐	2.000	1.891	37092.18	0.0134	P	2.4	-5.5
3	☐	5.000	4.830	92645.46	0.0338	P	1.3	-3.4
4	☐	10.000	9.763	185632.76	0.0680	P	2.2	-2.4
5	☐	100.000	96.300	1753151.12	0.6680	A	2.0	-3.7
6	☐	200.000	201.867	3562489.53	1.3999	A	0.8	0.9

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

Weight: <None>
Min Conc: <None>

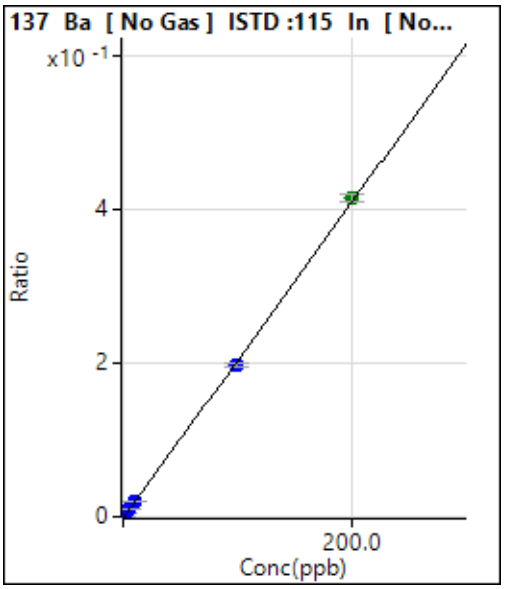
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0004	P	19.8	
2	☐	2.000	1.960	16106.68	0.0207	P	2.5	-2.0
3	☐	5.000	4.984	40335.00	0.0519	P	1.6	-0.3
4	☐	10.000	10.302	82207.29	0.1069	P	3.4	3.0
5	☐	100.000	99.971	765101.92	1.0339	P	2.5	0.0
6	☑	200.000		1639505.24	2.2657	A	0.9	

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

Weight: <None>
Min Conc: <None>

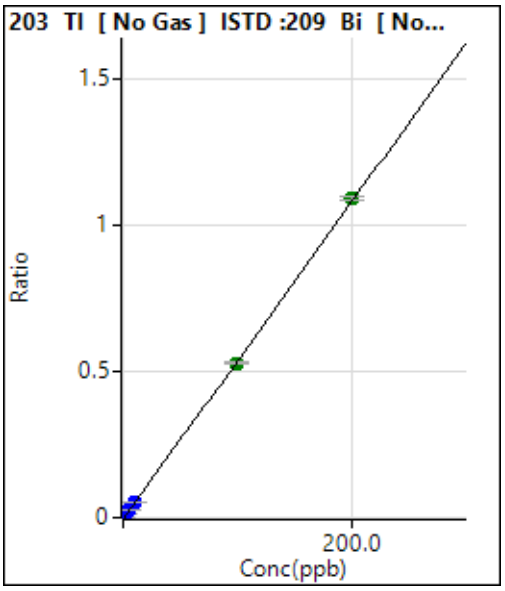


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0002	P	13.1	
2	☐	2.000	1.939	14928.66	0.0042	P	2.0	-3.1
3	☐	5.000	4.797	35889.37	0.0100	P	1.5	-4.1
4	☐	10.000	9.545	71008.44	0.0198	P	2.4	-4.5
5	☐	100.000	96.246	674393.61	0.1975	P	1.8	-3.8
6	☐	200.000	201.906	1370541.07	0.4142	A	2.1	1.0

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

Weight: <None>
Min Conc: <None>

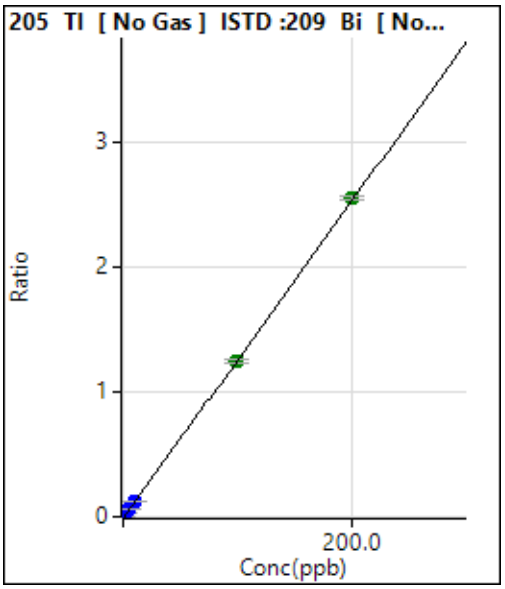
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.38	0.0002	P	12.8	
2	☐	2.000	1.983	40632.33	0.0110	P	2.1	-0.9
3	☐	5.000	4.999	101224.34	0.0273	P	2.8	0.0
4	☐	10.000	9.974	201815.17	0.0543	P	1.1	-0.3
5	☐	100.000	97.555	1894447.94	0.5296	A	2.3	-2.4
6	☐	200.000	201.224	3786081.09	1.0921	A	1.2	0.6

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

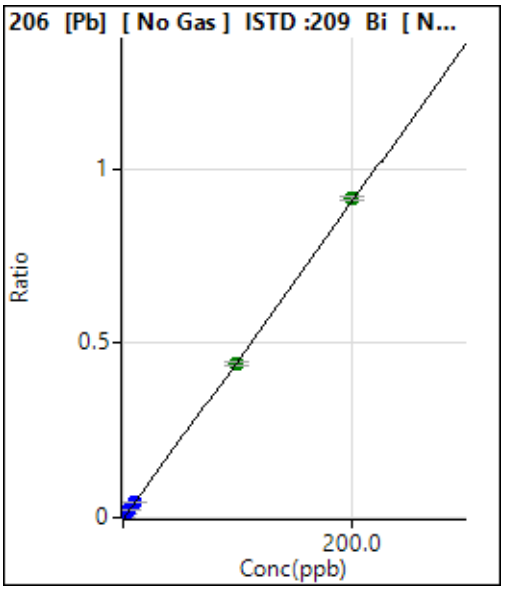
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1563.46	0.0004	P	15.3	
2	☐	2.000	2.018	96544.71	0.0261	P	2.2	0.9
3	☐	5.000	5.092	241227.03	0.0651	P	2.4	1.8
4	☐	10.000	10.148	480696.61	0.1294	P	1.7	1.5
5	☐	100.000	97.989	4457224.10	1.2459	A	2.1	-2.0
6	☐	200.000	200.996	8858542.16	2.5552	A	1.5	0.5

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

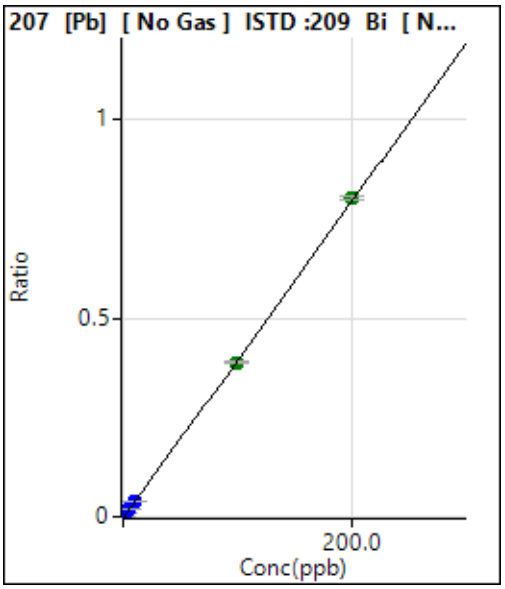
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	773.37	0.0002	P	15.5	
2	☐	2.000	1.955	33642.00	0.0091	P	1.9	-2.2
3	☐	5.000	4.954	84019.85	0.0227	P	3.1	-0.9
4	☐	10.000	10.031	169887.31	0.0457	P	1.2	0.3
5	☐	100.000	97.040	1576359.19	0.4406	A	2.0	-3.0
6	☐	200.000	201.480	3171026.00	0.9147	A	1.7	0.7

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

Weight: <None>
Min Conc: <None>

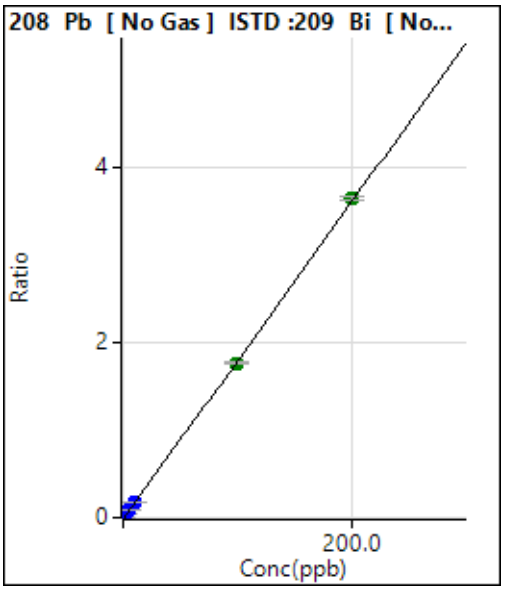


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.37	0.0002	P	9.8	
2	☐	2.000	1.998	30213.19	0.0082	P	1.8	-0.1
3	☐	5.000	4.954	73852.60	0.0199	P	1.3	-0.9
4	☐	10.000	9.884	147132.54	0.0396	P	1.0	-1.2
5	☐	100.000	97.288	1388849.67	0.3882	A	1.7	-2.7
6	☐	200.000	201.363	2785032.87	0.8033	A	1.1	0.7

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

Weight: <None>
Min Conc: <None>

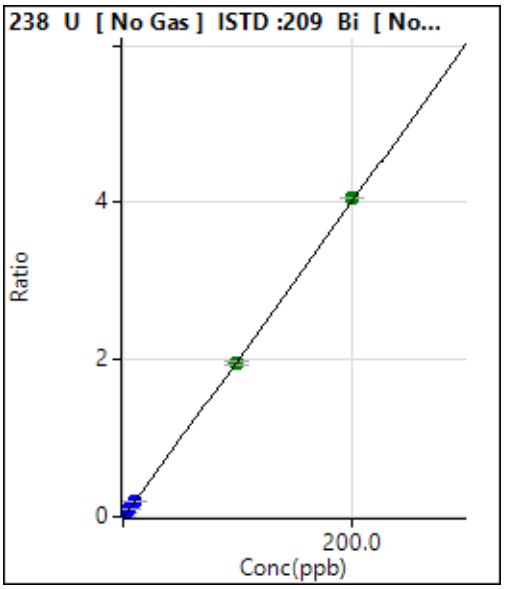
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3066.87	0.0008	P	5.7	
2	☐	2.000	1.966	135324.42	0.0365	P	1.8	-1.7
3	☐	5.000	4.948	335773.60	0.0907	P	2.2	-1.0
4	☐	10.000	9.957	674750.46	0.1817	P	1.4	-0.4
5	☐	100.000	97.556	6341054.44	1.7725	A	2.0	-2.4
6	☐	200.000	201.226	12672095.02	3.6552	A	1.2	0.6

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

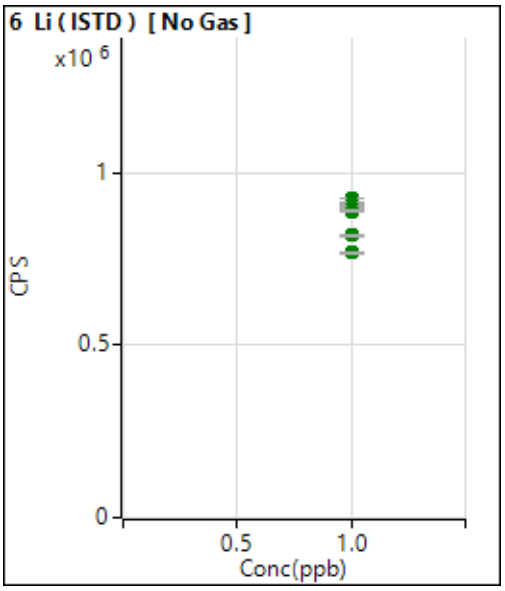
Weight: <None>
Min Conc: <None>



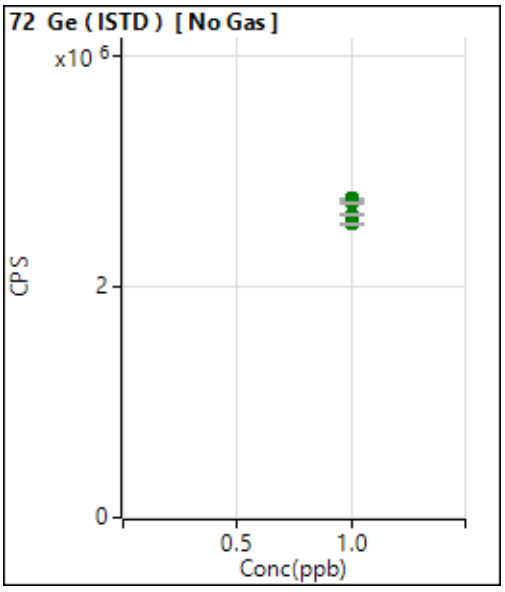
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1900.18	0.0005	P	2.5	
2	☐	2.000	1.845	139419.83	0.0376	P	1.9	-7.7
3	☐	5.000	4.733	354555.30	0.0958	P	1.4	-5.3
4	☐	10.000	9.462	709163.35	0.1909	P	1.1	-5.4
5	☐	100.000	96.705	6963452.81	1.9465	A	2.5	-3.3
6	☐	200.000	201.683	14071646.46	4.0590	A	0.4	0.8

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

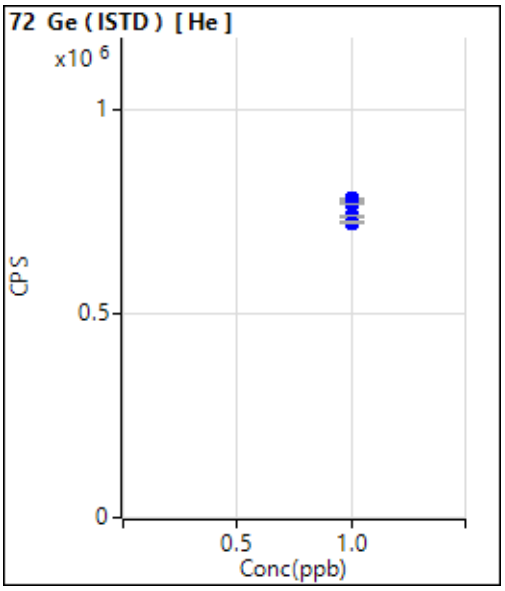
Weight: <None>
Min Conc: <None>



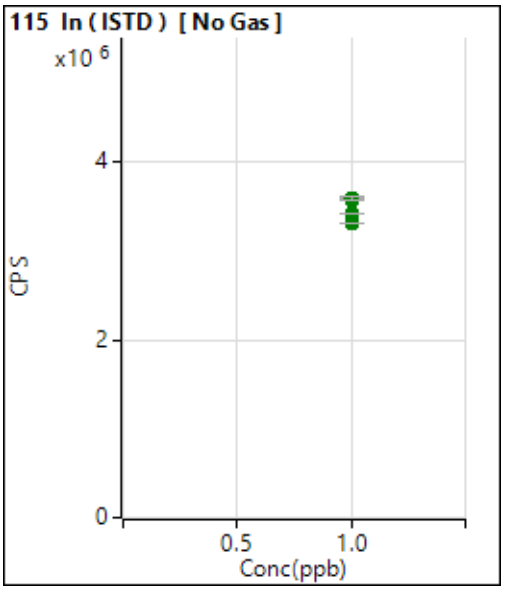
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		925046.91		A	0.3	
2	☐	1.000		910090.95		A	0.3	
3	☐	1.000		898410.34		A	0.6	
4	☐	1.000		887536.48		A	0.6	
5	☐	1.000		816416.59		A	0.7	
6	☐	1.000		766281.29		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2767984.33		A	0.3	
2	☐	1.000		2762231.42		A	0.4	
3	☐	1.000		2740635.27		A	0.7	
4	☐	1.000		2729773.60		A	0.5	
5	☐	1.000		2624311.16		A	0.8	
6	☐	1.000		2544719.96		A	0.4	

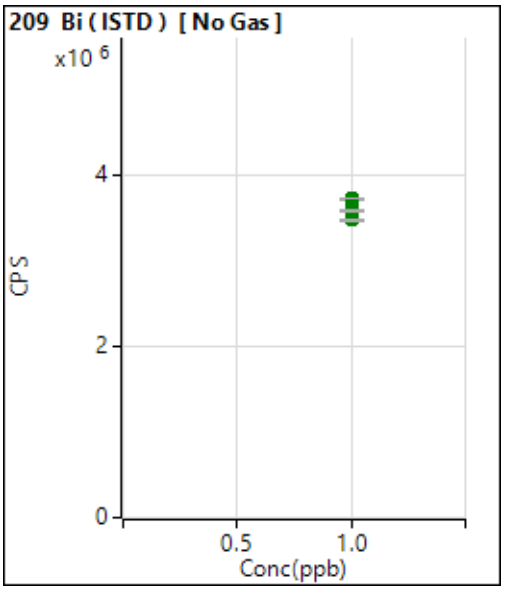


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		783220.07		P	0.6	
2	☐	1.000		778735.46		P	0.3	
3	☐	1.000		776516.79		P	0.6	
4	☐	1.000		768900.07		P	0.2	
5	☐	1.000		739983.09		P	0.6	
6	☐	1.000		723640.25		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3581092.47		A	0.3	
2	☐	1.000		3590901.90		A	0.1	
3	☐	1.000		3582606.62		A	0.3	
4	☐	1.000		3594961.40		A	0.7	
5	☐	1.000		3414111.39		A	0.1	
6	☐	1.000		3309119.69		A	0.3	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3720386.09		A	0.2	
2	☐	1.000		3704045.15		A	0.8	
3	☐	1.000		3702864.53		A	0.7	
4	☐	1.000		3714470.67		A	0.2	
5	☐	1.000		3577512.03		A	0.3	
6	☐	1.000		3466716.51		A	0.4	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T10:48:54-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	53694	0.00
Be	9	1	No Gas	93	23.20
V	51	2	He	7210	0.04
Cr	52	2	He	7609	0.07
Fe	56	2	He	19895	0.01
Se	78	2	He	135	7.18
As	75	2	He	317	2.40
Ca	44	2	He	607	0.68
Na	23	2	He	68034	0.00
Mg	24	2	He	1630	0.46
K	39	2	He	86239	0.00
Mn	55	2	He	777	1.43
Co	59	2	He	320	2.58
Ni	60	2	He	263	5.06
Cu	63	2	He	600	1.69
Zn	66	2	He	907	0.83
Al	27	2	He	930	0.95
B	11	1	No Gas	10486	0.01
Al	27	1	No Gas	34102	0.01
Si	28	1	No Gas	259377	0.00
Ag	107	1	No Gas	797	1.62
Cd	111	1	No Gas	79	31.83
Sr	88	1	No Gas	2050	0.41
Mo	95	1	No Gas	233	11.95
Sn	118	1	No Gas	3934	0.13
Sb	121	1	No Gas	880	1.23
Ba	137	1	No Gas	650	2.05
Tl	205	1	No Gas	1563	0.99
Tl	203	1	No Gas	783	1.64
Pb	208	1	No Gas	3067	0.18
U	238	1	No Gas	1900	0.12
Ca	43	2	He	43	134.02
Sb	121	2	He	333	5.99
Ti	47	2	He	10	1732.05
Cu	63	1	No Gas	1627	0.30

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	925047	0.30
Ge	72	2	He	783220	0.56
Ge	72	1	No Gas	2767984	0.33
In	115	1	No Gas	3581092	0.28

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3720386	0.21

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T10:51:37-05:00
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	6487	0.05
V	51	2	He	18096	0.01
Cr	52	2	He	19941	0.01
Fe	56	2	He	1196572	0.00
Se	78	2	He	303	5.40
As	75	2	He	2465	0.11
Ca	44	2	He	7986	0.09
Na	23	2	He	241881	0.00
Mg	24	2	He	109587	0.00
K	39	2	He	222089	0.00
Mn	55	2	He	10347	0.05
Co	59	2	He	19307	0.01
Ni	60	2	He	5238	0.05
Cu	63	2	He	14181	0.03
Zn	66	2	He	3554	0.08
Al	27	2	He	1537	0.28
B	11	1	No Gas	27001	0.01
Al	27	1	No Gas	65264	0.00
Si	28	1	No Gas	336928	0.00
Ag	107	1	No Gas	42545	0.01
Cd	111	1	No Gas	8052	0.09
Sr	88	1	No Gas	81035	0.00
Mo	95	1	No Gas	15132	0.02
Sn	118	1	No Gas	31170	0.00
Sb	121	1	No Gas	37092	0.01
Ba	137	1	No Gas	14929	0.01
Tl	205	1	No Gas	96545	0.00
Tl	203	1	No Gas	40632	0.01
Pb	208	1	No Gas	135324	0.00
U	238	1	No Gas	139420	0.00
Ca	43	2	He	477	2.86
Sb	121	2	He	16107	0.01
Cu	63	1	No Gas	31429	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	910091	0.25	925047	98.38	70	120	
Ge	72	2	He	778735	0.35	783220	99.43	70	120	
Ge	72	1	No Gas	2762231	0.37	2767984	99.79	70	120	

Calibration Standard Report

In	115	1	No Gas	3590902	0.11	3581092	100.27	70	120	
Bi	209	1	No Gas	3704045	0.84	3720386	99.56	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\062824A.b
Acq Date Time	2024-06-28T10:54:18-05:00
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	15916	0.03
V	51	2	He	34195	0.01
Cr	52	2	He	38614	0.00
Fe	56	2	He	3026577	0.00
Se	78	2	He	594	1.13
As	75	2	He	5596	0.05
Ca	44	2	He	18499	0.02
Na	23	2	He	512047	0.00
Mg	24	2	He	279702	0.00
K	39	2	He	430864	0.00
Mn	55	2	He	25090	0.02
Co	59	2	He	49051	0.00
Ni	60	2	He	12756	0.01
Cu	63	2	He	34728	0.00
Zn	66	2	He	7145	0.02
Al	27	2	He	2707	0.07
B	11	1	No Gas	53607	0.01
Al	27	1	No Gas	106947	0.00
Si	28	1	No Gas	448740	0.00
Ag	107	1	No Gas	106670	0.00
Cd	111	1	No Gas	20523	0.01
Sr	88	1	No Gas	200780	0.00
Mo	95	1	No Gas	38275	0.01
Sn	118	1	No Gas	71599	0.00
Sb	121	1	No Gas	92645	0.00
Ba	137	1	No Gas	35889	0.00
Tl	205	1	No Gas	241227	0.00
Tl	203	1	No Gas	101224	0.00
Pb	208	1	No Gas	335774	0.00
U	238	1	No Gas	354555	0.00
Ca	43	2	He	1100	0.83
Sb	121	2	He	40335	0.00
Cu	63	1	No Gas	75661	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	898410	0.56	925047	97.12	70	120	
Ge	72	2	He	776517	0.58	783220	99.14	70	120	
Ge	72	1	No Gas	2740635	0.73	2767984	99.01	70	120	

Calibration Standard Report

In	115	1	No Gas	3582607	0.35	3581092	100.04	70	120	
Bi	209	1	No Gas	3702865	0.73	3720386	99.53	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\062824A.b
Acq Date Time	2024-06-28T10:56:58-05:00
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	32140	0.00
V	51	2	He	62395	0.00
Cr	52	2	He	71367	0.00
Fe	56	2	He	6132018	0.00
Se	78	2	He	1082	0.45
As	75	2	He	10723	0.02
Ca	44	2	He	36334	0.01
Na	23	2	He	958748	0.00
Mg	24	2	He	559963	0.00
K	39	2	He	777099	0.00
Mn	55	2	He	50811	0.01
Co	59	2	He	98007	0.00
Ni	60	2	He	25567	0.02
Cu	63	2	He	69107	0.00
Zn	66	2	He	13800	0.02
Al	27	2	He	4674	0.17
B	11	1	No Gas	96240	0.00
Al	27	1	No Gas	185299	0.00
Si	28	1	No Gas	640435	0.00
Ag	107	1	No Gas	210518	0.00
Cd	111	1	No Gas	40826	0.00
Sr	88	1	No Gas	398185	0.00
Mo	95	1	No Gas	75722	0.00
Sn	118	1	No Gas	139405	0.00
Sb	121	1	No Gas	185633	0.00
Ba	137	1	No Gas	71008	0.00
Tl	205	1	No Gas	480697	0.00
Tl	203	1	No Gas	201815	0.00
Pb	208	1	No Gas	674750	0.00
U	238	1	No Gas	709163	0.00
Ca	43	2	He	2110	0.51
Sb	121	2	He	82207	0.00
Cu	63	1	No Gas	149626	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	887536	0.64	925047	95.95	70	120	
Ge	72	2	He	768900	0.18	783220	98.17	70	120	
Ge	72	1	No Gas	2729774	0.54	2767984	98.62	70	120	

Calibration Standard Report

In	115	1	No Gas	3594961	0.73	3581092	100.39	70	120	
Bi	209	1	No Gas	3714471	0.23	3720386	99.84	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\062824A.b
Acq Date Time	2024-06-28T10:59:39-05:00
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	295776	0.00
V	51	2	He	521843	0.00
Cr	52	2	He	588851	0.00
Fe	56	2	He	56402962	0.00
Se	78	2	He	8966	0.04
As	75	2	He	99197	0.00
Ca	44	2	He	338795	0.00
Na	23	2	He	8244616	0.00
Mg	24	2	He	5162818	0.00
K	39	2	He	6536171	0.00
Mn	55	2	He	461277	0.00
Co	59	2	He	903636	0.00
Ni	60	2	He	234080	0.00
Cu	63	2	He	624094	0.00
Zn	66	2	He	122635	0.00
Al	27	2	He	34950	0.01
B	11	1	No Gas	811064	0.00
Al	27	1	No Gas	1416939	0.00
Si	28	1	No Gas	3738979	0.00
Ag	107	1	No Gas	1951427	0.00
Cd	111	1	No Gas	390069	0.00
Sr	88	1	No Gas	3725471	0.00
Mo	95	1	No Gas	736415	0.00
Sn	118	1	No Gas	1289414	0.00
Sb	121	1	No Gas	1753151	0.00
Ba	137	1	No Gas	674394	0.00
Tl	205	1	No Gas	4457224	0.00
Tl	203	1	No Gas	1894448	0.00
Pb	208	1	No Gas	6341054	0.00
U	238	1	No Gas	6963453	0.00
Ca	43	2	He	19871	0.03
Sb	121	2	He	765102	0.00
Cu	63	1	No Gas	1365690	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	816417	0.68	925047	88.26	70	120	
Ge	72	2	He	739983	0.58	783220	94.48	70	120	
Ge	72	1	No Gas	2624311	0.76	2767984	94.81	70	120	

Calibration Standard Report

In	115	1	No Gas	3414111	0.10	3581092	95.34	70	120	
Bi	209	1	No Gas	3577512	0.25	3720386	96.16	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\062824A.b
Acq Date Time	2024-06-28T11:02:18-05:00
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	580133	0.00
V	51	2	He	1077787	0.00
Cr	52	2	He	1227189	0.00
Fe	56	2	He	116870612	0.00
Se	78	2	He	18650	0.01
As	75	2	He	206029	0.00
Ca	44	2	He	702420	0.00
Na	23	2	He	16883068	0.00
Mg	24	2	He	10649837	0.00
K	39	2	He	13541563	0.00
Mn	55	2	He	959868	0.00
Co	59	2	He	1900058	0.00
Ni	60	2	He	478170	0.00
Cu	63	2	He	1294062	0.00
Zn	66	2	He	247505	0.00
Al	27	2	He	71196	0.00
B	11	1	No Gas	1606226	0.00
Al	27	1	No Gas	2757465	0.00
Si	28	1	No Gas	7074833	0.00
Ag	107	1	No Gas	3875702	0.00
Cd	111	1	No Gas	768182	0.00
Sr	88	1	No Gas	7444902	0.00
Mo	95	1	No Gas	1490734	0.00
Sn	118	1	No Gas	2579379	0.00
Sb	121	1	No Gas	3562490	0.00
Ba	137	1	No Gas	1370541	0.00
Tl	205	1	No Gas	8858542	0.00
Tl	203	1	No Gas	3786081	0.00
Pb	208	1	No Gas	12672095	0.00
U	238	1	No Gas	14071646	0.00
Ca	43	2	He	41138	0.00
Sb	121	2	He	1639505	0.00
Cu	63	1	No Gas	2690477	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	766281	0.34	925047	82.84	70	120	
Ge	72	2	He	723640	0.39	783220	92.39	70	120	
Ge	72	1	No Gas	2544720	0.39	2767984	91.93	70	120	

Calibration Standard Report

In	115	1	No Gas	3309120	0.34	3581092	92.41	70	120	
Bi	209	1	No Gas	3466717	0.45	3720386	93.18	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:10:44-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	104.117	2.101	1172744	2.38	100	104.1	90	110	
Be	9	1	No Gas	106.066	1.874	312580	2.20	100	106.1	90	110	
V	51	2	He	105.553	1.276	588138	1.46	100	105.6	90	110	
Cr	52	2	He	104.661	1.231	662738	1.33	100	104.7	90	110	
Fe	56	2	He	10287.363	1.636	61858754	2.00	10000	102.9	90	110	
Se	78	2	He	106.554	2.858	10261	2.46	100	106.6	90	110	
As	75	2	He	105.762	0.866	112147	0.33	100	105.8	90	110	
Ca	44	2	He	10310.509	1.430	372753	2.11	10000	103.1	90	110	
Na	23	2	He	10293.537	1.017	8985900	1.32	10000	102.9	90	110	
Mg	24	2	He	10307.876	1.368	5652906	1.60	10000	103.1	90	110	
K	39	2	He	10258.830	1.814	7178775	2.20	10000	102.6	90	110	
Mn	55	2	He	104.926	1.188	517975	1.66	100	104.9	90	110	
Co	59	2	He	105.784	0.877	1031199	0.95	100	105.8	90	110	
Ni	60	2	He	105.465	0.201	260243	0.73	100	105.5	90	110	
Cu	63	2	He	104.680	0.970	697054	1.62	100	104.7	90	110	
Zn	66	2	He	104.980	1.456	134669	1.68	100	105.0	90	110	
Al	27	2	He	106.147	2.744	39329	2.52	100	106.1	90	110	
B	11	1	No Gas	511.086	0.566	825780	0.86	500	102.2	90	110	
Al	27	1	No Gas	103.993	1.786	1506356	2.00	100	104.0	90	110	
Si	28	1	No Gas	510.206	1.820	3879327	1.97	500	102.0	90	110	
Ag	107	1	No Gas	104.173	1.964	2084934	1.47	100	104.2	90	110	
Cd	111	1	No Gas	103.990	3.049	413134	2.56	100	104.0	90	110	
Sr	88	1	No Gas	104.088	3.075	3996749	2.57	100	104.1	90	110	
Mo	95	1	No Gas	100.967	2.174	774239	1.67	100	101.0	90	110	
Sn	118	1	No Gas	104.054	2.111	1385155	1.62	100	104.1	90	110	
Sb	121	1	No Gas	103.728	1.724	1909087	1.99	100	103.7	90	110	
Ba	137	1	No Gas	101.896	2.311	718008	1.81	100	101.9	90	110	
Tl	205	1	No Gas	105.131	2.330	4817032	2.61	100	105.1	90	110	
Tl	203	1	No Gas	105.179	2.411	2057405	2.64	100	105.2	90	110	
Pb	208	1	No Gas	102.998	1.762	6743637	2.15	100	103.0	90	110	
U	238	1	No Gas	105.202	1.417	7630674	1.80	100	105.2	90	110	
Ca	43	2	He	10304.949	1.647	21827	2.25	10000	103.0	90	110	
Sb	121	2	He	103.492	0.916	867403	1.28	100	103.5	90	110	
Ti	47	2	He	102.357	2.658	21524	3.34	100	102.4	90	110	
Cu	63	1	No Gas	104.946	1.309	1468118	1.58	100	104.9	90	110	
Se	82	1	No Gas	105.501	2.105	25224	2.28	100	105.5	90	110	
Zr	90	1	No Gas	86.862	2.542	2100135	2.04	100	86.9	90	110	ICV Main CR1 Failed
Zr	90	2	He	87.535	0.607	853861	1.16	100	87.5	90	1100	ICV Main CR1 Failed

QC ISTD Table

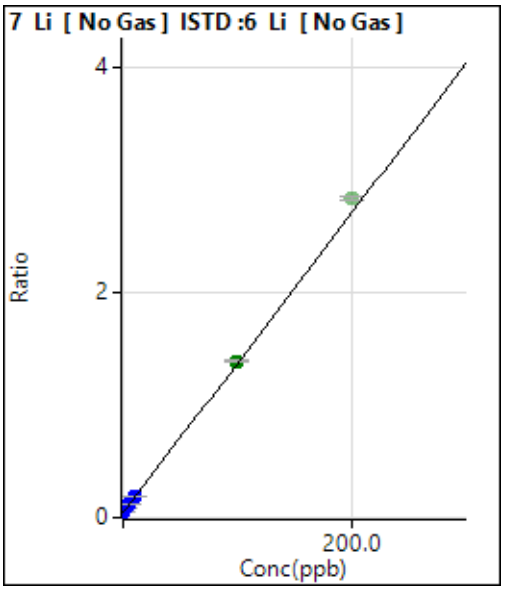
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	813542	0.45	925047	87.95	70	120	
Ge	72	2	He	752999	0.68	783220	96.14	70	120	
Ge	72	1	No Gas	2653269	0.27	2767984	95.86	70	120	
In	115	1	No Gas	3433728	0.50	3581092	95.88	70	120	
Bi	209	1	No Gas	3603462	0.40	3720386	96.86	70	120	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/28/2024 10:48:54 AM
2	011CALS.d	2/10/200	6/28/2024 10:51:37 AM
3	012CALS.d	5/25/500	6/28/2024 10:54:18 AM
4	013CALS.d	10/50/100	6/28/2024 10:56:58 AM
5	014CALS.d	100/500/10K	6/28/2024 10:59:39 AM
6	015CALS.d	200/1000/20K	6/28/2024 11:02:18 AM

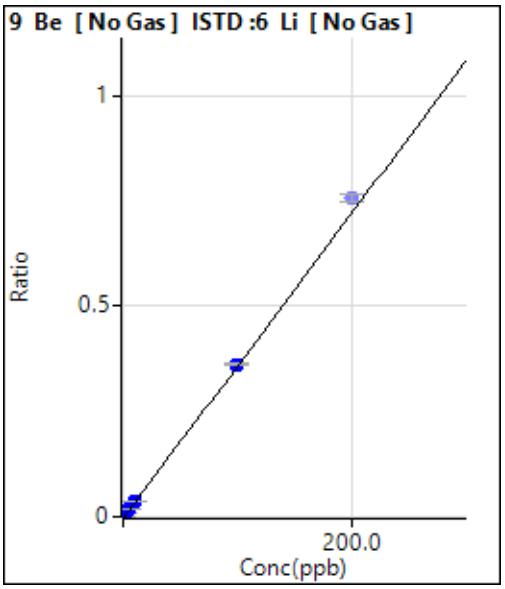
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53693.95	0.0580	P	0.8	
2	☐	2.000	1.985	76827.04	0.0844	P	0.8	-0.8
3	☐	5.000	4.966	111419.71	0.1240	P	2.0	-0.7
4	☐	10.000	9.951	168866.07	0.1903	P	1.1	-0.5
5	☐	100.000	100.007	1132266.78	1.3869	A	1.7	0.0
6	☑	200.000		2170636.01	2.8328	A	1.4	

y = 0.0133 * x + 0.0580
R = 1.0000
DL = 0.09885 ppb
BEC = 4.368 ppb

Weight: <None>
Min Conc: <None>

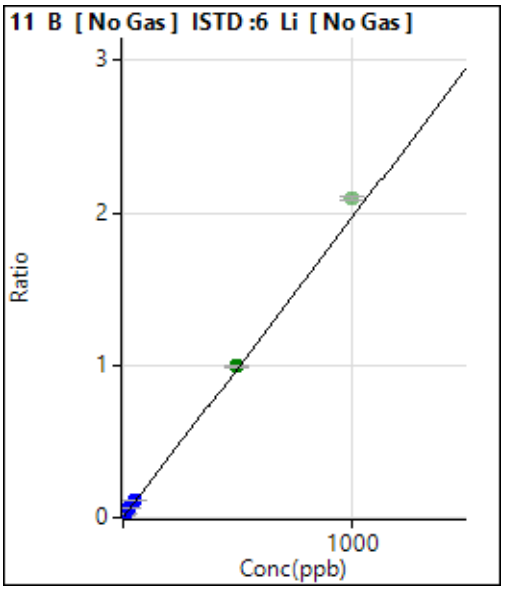


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	21.9	
2	☐	2.000	1.940	6486.52	0.0071	P	3.3	-3.0
3	☐	5.000	4.865	15915.62	0.0177	P	5.9	-2.7
4	☐	10.000	9.972	32139.60	0.0362	P	1.2	-0.3
5	☐	100.000	100.011	295776.38	0.3623	P	1.9	0.0
6	☑	200.000		580133.38	0.7571	P	2.2	

y = 0.0036 * x + 1.0094E-004
R = 1.0000
DL = 0.01834 ppb
BEC = 0.02787 ppb

Weight: <None>
Min Conc: <None>

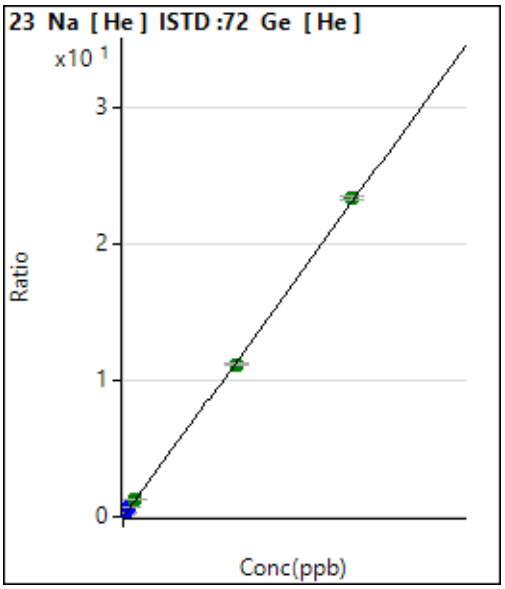
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10485.62	0.0113	P	1.5	
2	☐	10.000	9.335	27000.62	0.0297	P	1.8	-6.6
3	☐	25.000	24.615	53607.41	0.0597	P	3.3	-1.5
4	☐	50.000	49.444	96239.64	0.1084	P	1.1	-1.1
5	☐	500.000	500.088	811064.34	0.9934	A	1.8	0.0
6	☑	1000.000		1606226.28	2.0962	A	1.4	

y = 0.0020 * x + 0.0113
R = 1.0000
DL = 0.2563 ppb
BEC = 5.772 ppb

Weight: <None>
Min Conc: <None>

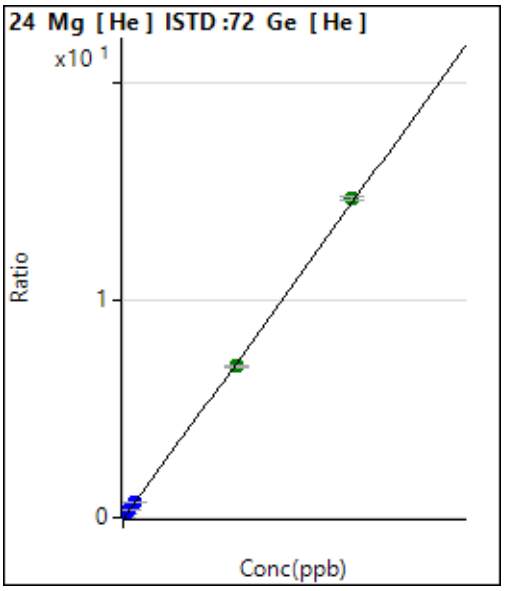


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68033.74	0.0869	P	1.0	
2	☐	200.000	194.421	241881.29	0.3106	P	2.2	-2.8
3	☐	500.000	497.467	512046.74	0.6594	P	1.1	-0.5
4	☐	1000.000	1007.977	958747.62	1.2469	A	2.0	0.8
5	☐	10000.00	9605.169	8244615.92	11.1412	A	1.2	-3.9
6	☐	20000.00	20197.13	16883068.50	23.3311	A	1.5	1.0

y = 0.0012 * x + 0.0869
R = 0.9997
DL = 2.27 ppb
BEC = 75.48 ppb

Weight: <None>
Min Conc: <None>

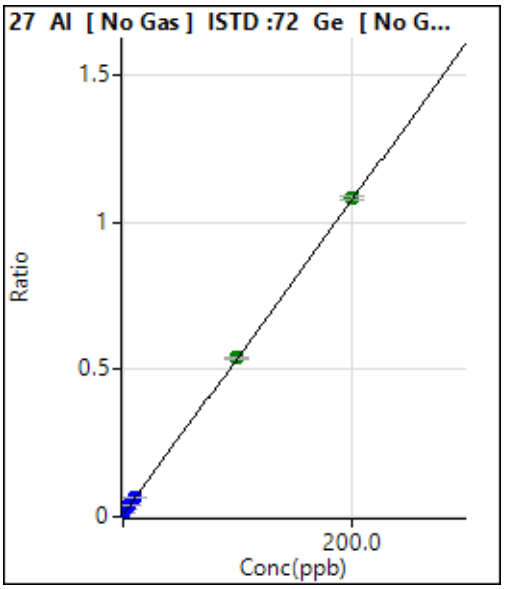
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1630.12	0.0021	P	7.2	
2	☐	200.000	190.440	109586.99	0.1407	P	4.6	-4.8
3	☐	500.000	491.846	279702.50	0.3602	P	1.3	-1.6
4	☐	1000.000	997.385	559962.84	0.7283	P	1.8	-0.3
5	☐	10000.00	9579.136	5162817.63	6.9765	A	1.5	-4.2
6	☐	20000.00	20210.86	10649836.92	14.7174	A	1.7	1.1

y = 7.2809E-004 * x + 0.0021
R = 0.9997
DL = 0.6191 ppb
BEC = 2.858 ppb

Weight: <None>
Min Conc: <None>

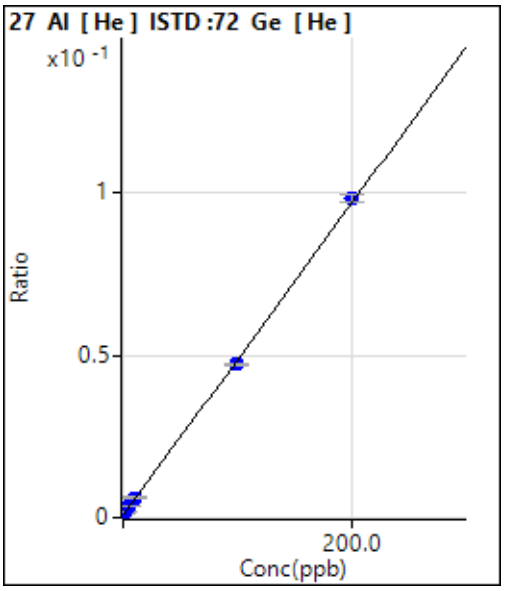


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	34101.58	0.0123	P	2.5	
2	☐	2.000	2.117	65264.21	0.0236	P	1.6	5.9
3	☐	5.000	4.999	106947.31	0.0390	P	1.5	0.0
4	☐	10.000	10.403	185299.17	0.0679	P	1.3	4.0
5	☐	100.000	98.785	1416939.09	0.5399	A	1.6	-1.2
6	☐	200.000	200.586	2757465.17	1.0836	A	1.4	0.3

y = 0.0053 * x + 0.0123
R = 1.0000
DL = 0.1758 ppb
BEC = 2.307 ppb

Weight: <None>
Min Conc: <None>

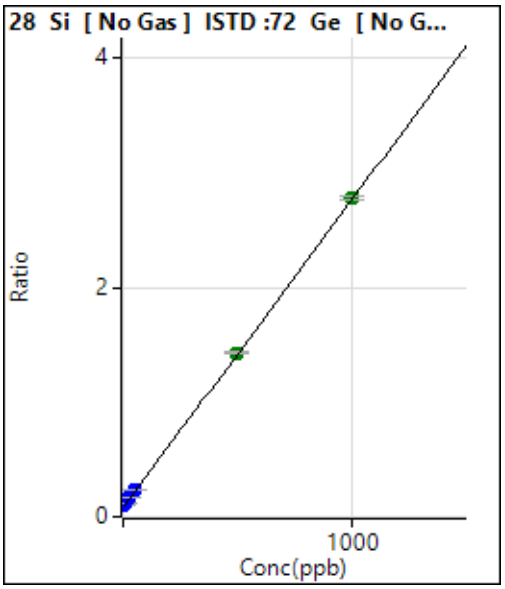
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	930.05	0.0012	P	8.3	
2	☐	2.000	1.636	1536.78	0.0020	P	4.7	-18.2
3	☐	5.000	4.780	2706.97	0.0035	P	1.5	-4.4
4	☐	10.000	10.172	4674.20	0.0061	P	7.8	1.7
5	☐	100.000	95.743	34950.40	0.0472	P	1.5	-4.3
6	☐	200.000	202.129	71196.14	0.0984	P	2.2	1.1

y = 4.8088E-004 * x + 0.0012
R = 0.9997
DL = 0.6129 ppb
BEC = 2.469 ppb

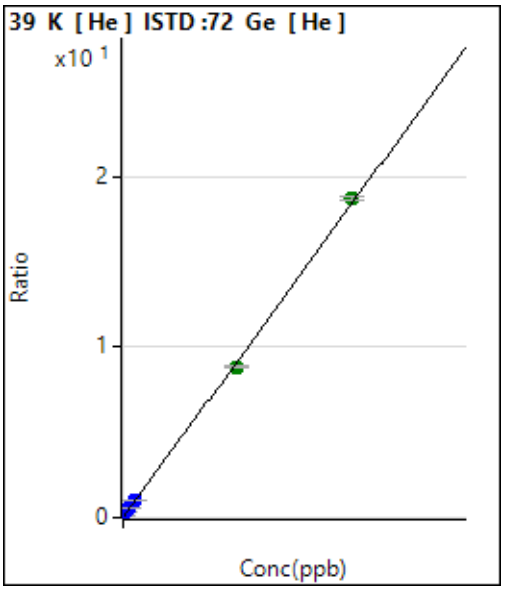
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	259377.48	0.0937	P	3.4	
2	☐	10.000	10.538	336928.11	0.1220	P	1.4	5.4
3	☐	25.000	26.114	448739.76	0.1637	P	1.7	4.5
4	☐	50.000	52.538	640435.47	0.2346	P	0.5	5.1
5	☐	500.000	496.287	3738979.43	1.4247	A	1.2	-0.7
6	☐	1000.000	1001.696	7074832.81	2.7802	A	0.9	0.2

y = 0.0027 * x + 0.0937
R = 1.0000
DL = 3.552 ppb
BEC = 34.94 ppb

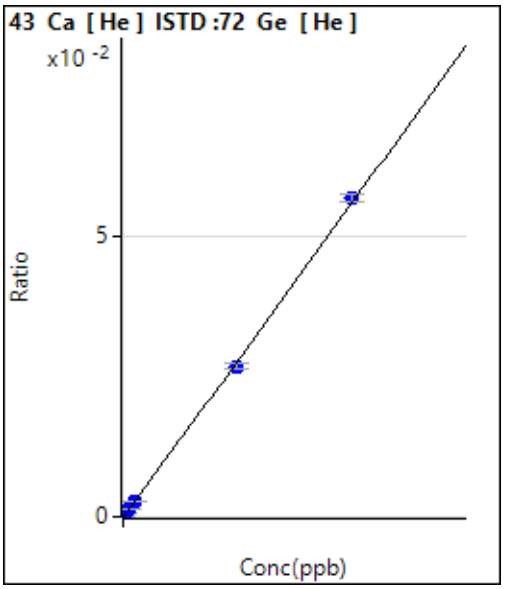
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86238.61	0.1101	P	1.9	
2	☐	200.000	190.632	222088.86	0.2852	P	1.8	-4.7
3	☐	500.000	484.177	430864.03	0.5548	P	1.6	-3.2
4	☐	1000.000	980.426	777098.58	1.0107	P	2.0	-2.0
5	☐	10000.00	9496.081	6536171.36	8.8326	A	0.8	-5.0
6	☐	20000.00	20253.42	13541562.71	18.7136	A	1.8	1.3

y = 9.1854E-004 * x + 0.1101
R = 0.9996
DL = 6.861 ppb
BEC = 119.9 ppb

Weight: <None>
Min Conc: <None>

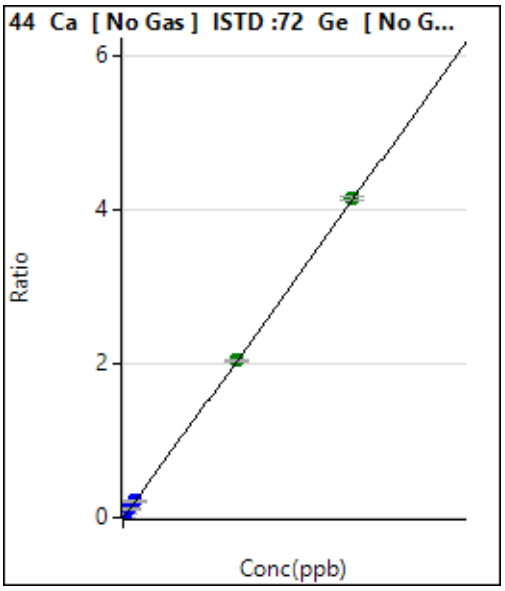


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	58.6	
2	☐	200.000	198.303	476.68	0.0006	P	13.7	-0.8
3	☐	500.000	484.738	1100.06	0.0014	P	8.6	-3.1
4	☐	1000.000	957.754	2110.20	0.0027	P	10.7	-4.2
5	☐	10000.00	9543.795	19871.21	0.0268	P	4.8	-4.6
6	☐	20000.00	20230.61	41137.64	0.0569	P	2.1	1.2

y = 2.8074E-006 * x + 5.5433E-005
R = 0.9996
DL = 34.71 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

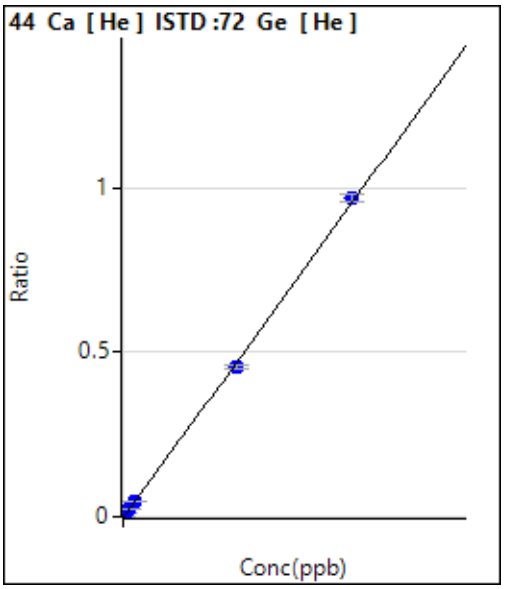
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28997.33	0.0105	P	2.7	
2	☐	200.000	196.142	140482.65	0.0509	P	2.7	-1.9
3	☐	500.000	495.867	308521.45	0.1126	P	0.8	-0.8
4	☐	1000.000	988.159	583938.00	0.2139	P	2.4	-1.2
5	☐	10000.00	9843.692	5346373.77	2.0372	A	1.7	-1.6
6	☐	20000.00	20078.88	10546593.38	4.1445	A	1.0	0.4

y = 2.0589E-004 * x + 0.0105
R = 1.0000
DL = 4.144 ppb
BEC = 50.88 ppb

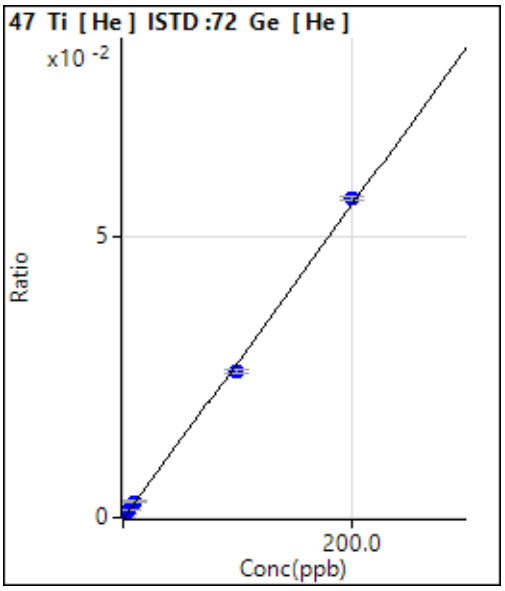
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0008	P	3.6	
2	☐	200.000	197.813	7985.77	0.0103	P	7.2	-1.1
3	☐	500.000	480.803	18499.27	0.0238	P	2.9	-3.8
4	☐	1000.000	969.695	36334.41	0.0473	P	2.6	-3.0
5	☐	10000.00	9534.462	338794.68	0.4578	P	2.8	-4.7
6	☐	20000.00	20234.78	702419.83	0.9707	P	1.9	1.2

y = 4.7934E-005 * x + 7.7452E-004
R = 0.9996
DL = 1.757 ppb
BEC = 16.16 ppb

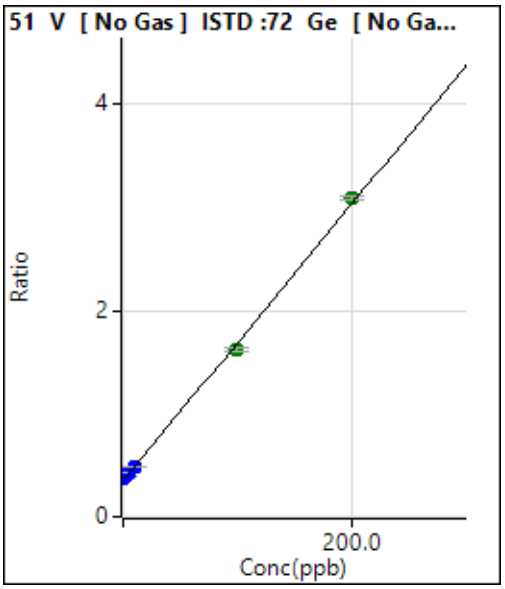
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	173.2	
2	☐	2.000	2.454	543.36	0.0007	P	8.7	22.7
3	☐	5.000	4.629	1013.39	0.0013	P	7.7	-7.4
4	☐	10.000	9.989	2153.54	0.0028	P	9.8	-0.1
5	☐	100.000	93.218	19263.64	0.0260	P	3.7	-6.8
6	☐	200.000	203.396	41087.74	0.0568	P	1.1	1.7

y = 2.7910E-004 * x + 1.2735E-005
R = 0.9992
DL = 0.2371 ppb
BEC = 0.04563 ppb

Weight: <None>
Min Conc: <None>

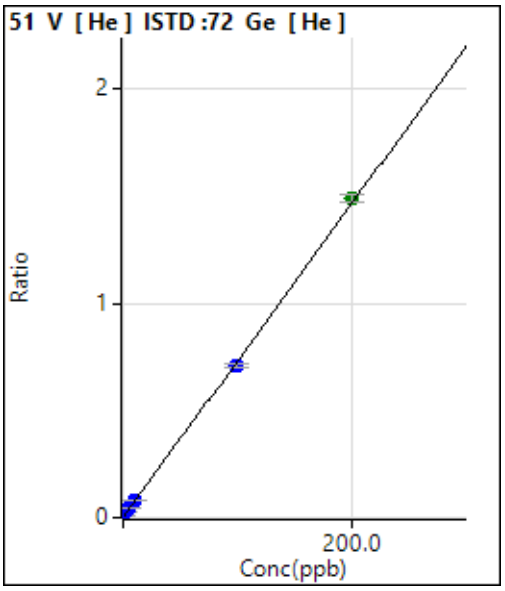


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010954.48	0.3652	P	0.5	
2	☐	2.000	1.938	1080650.24	0.3912	P	1.3	-3.1
3	☐	5.000	4.355	1161135.25	0.4236	P	1.4	-12.9
4	☐	10.000	8.883	1322173.21	0.4844	P	1.4	-11.2
5	☐	100.000	93.506	4249706.16	1.6193	A	1.3	-6.5
6	☐	200.000	203.320	7868543.93	3.0921	A	0.8	1.7

y = 0.0134 * x + 0.3652
R = 0.9993
DL = 0.4177 ppb
BEC = 27.23 ppb

Weight: <None>
Min Conc: <None>

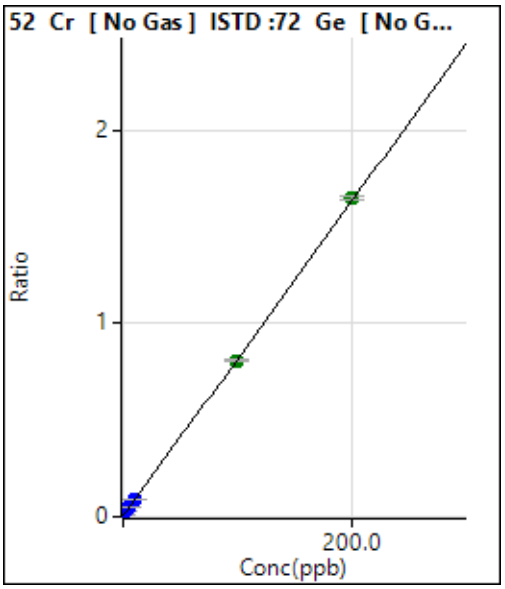
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7209.69	0.0092	P	2.4	
2	☐	2.000	1.919	18096.30	0.0232	P	2.3	-4.0
3	☐	5.000	4.763	34195.37	0.0440	P	1.8	-4.7
4	☐	10.000	9.839	62395.05	0.0811	P	2.8	-1.6
5	☐	100.000	95.172	521843.03	0.7052	P	2.4	-4.8
6	☐	200.000	202.429	1077786.55	1.4895	A	2.4	1.2

y = 0.0073 * x + 0.0092
R = 0.9996
DL = 0.08909 ppb
BEC = 1.259 ppb

Weight: <None>
Min Conc: <None>

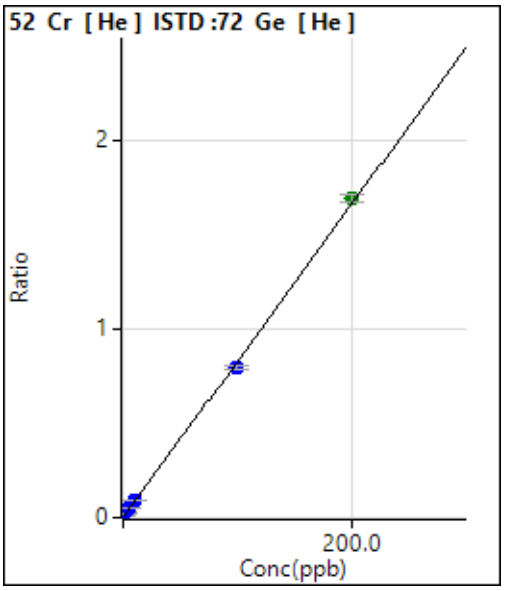


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	34286.10	0.0124	P	1.8	
2	☐	2.000	1.958	78226.70	0.0283	P	2.6	-2.1
3	☐	5.000	5.009	145663.94	0.0531	P	3.9	0.2
4	☐	10.000	9.909	253873.25	0.0930	P	1.7	-0.9
5	☐	100.000	97.835	2121565.39	0.8084	A	0.9	-2.2
6	☐	200.000	201.087	4195007.34	1.6485	A	0.6	0.5

y = 0.0081 * x + 0.0124
R = 0.9999
DL = 0.08146 ppb
BEC = 1.522 ppb

Weight: <None>
Min Conc: <None>

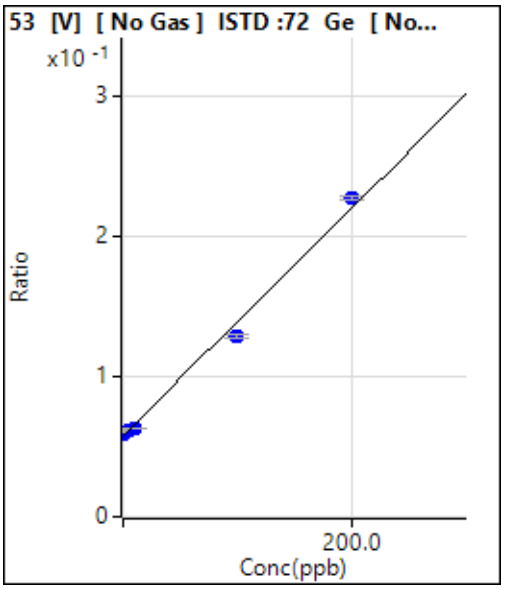
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.88	0.0097	P	5.4	
2	☐	2.000	1.911	19941.23	0.0256	P	1.7	-4.5
3	☐	5.000	4.811	38614.11	0.0497	P	1.2	-3.8
4	☐	10.000	9.993	71366.91	0.0928	P	1.5	-0.1
5	☐	100.000	94.508	588850.85	0.7957	P	2.1	-5.5
6	☐	200.000	202.752	1227189.22	1.6959	A	2.3	1.4

y = 0.0083 * x + 0.0097
R = 0.9995
DL = 0.1888 ppb
BEC = 1.168 ppb

Weight: <None>
Min Conc: <None>

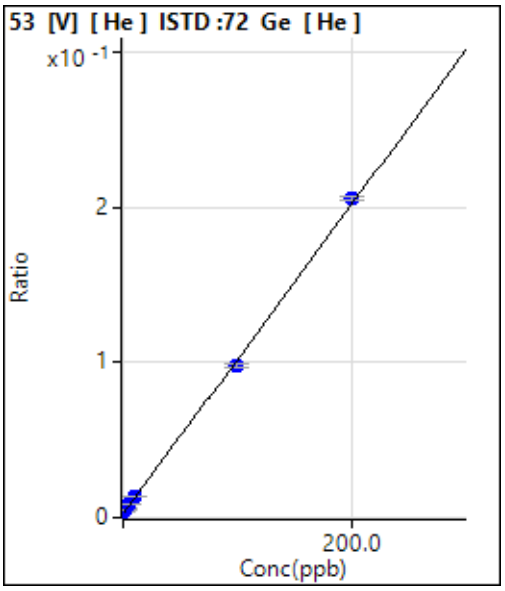


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	164036.67	0.0593	P	0.7	
2	☐	2.000	1.732	167571.12	0.0607	P	1.2	-13.4
3	☐	5.000	2.193	167297.96	0.0610	P	1.2	-56.1
4	☐	10.000	5.018	172871.46	0.0633	P	1.1	-49.8
5	☐	100.000	85.756	337990.58	0.1288	P	1.4	-14.2
6	☐	200.000	207.444	578785.28	0.2274	P	1.3	3.7

y = 8.1073E-004 * x + 0.0593
R = 0.9966
DL = 1.644 ppb
BEC = 73.1 ppb

Weight: <None>
Min Conc: <None>

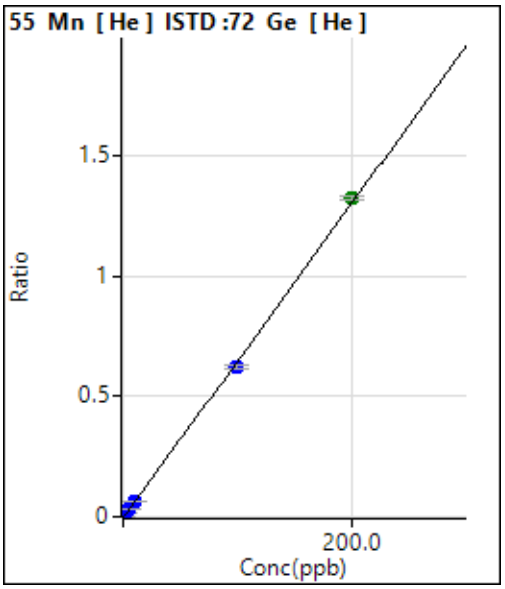
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2793.66	0.0036	P	5.9	
2	☐	2.000	1.858	4217.40	0.0054	P	6.4	-7.1
3	☐	5.000	4.727	6424.93	0.0083	P	4.7	-5.5
4	☐	10.000	9.708	10177.27	0.0132	P	2.1	-2.9
5	☐	100.000	94.230	72100.88	0.0974	P	2.8	-5.8
6	☐	200.000	202.908	148836.68	0.2057	P	1.5	1.5

y = 9.9607E-004 * x + 0.0036
R = 0.9994
DL = 0.6353 ppb
BEC = 3.58 ppb

Weight: <None>
Min Conc: <None>

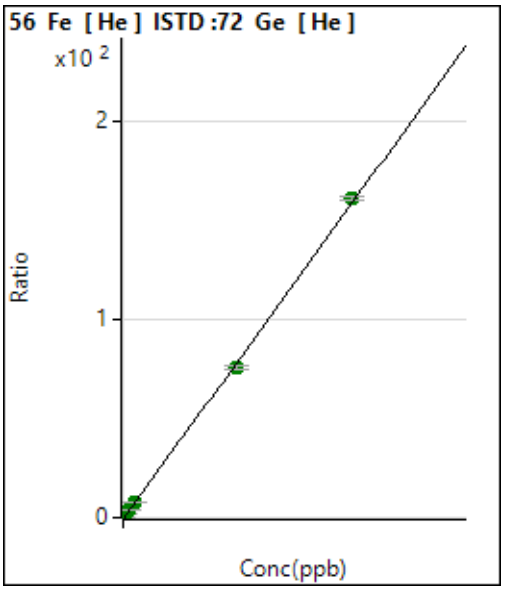


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	776.70	0.0010	P	11.6	
2	☐	2.000	1.878	10347.38	0.0133	P	5.0	-6.1
3	☐	5.000	4.784	25089.77	0.0323	P	3.8	-4.3
4	☐	10.000	9.943	50810.52	0.0661	P	3.3	-0.6
5	☐	100.000	95.066	461277.27	0.6233	P	1.9	-4.9
6	☐	200.000	202.476	959867.75	1.3264	A	1.3	1.2

y = 0.0065 * x + 9.9207E-004
R = 0.9996
DL = 0.05289 ppb
BEC = 0.1515 ppb

Weight: <None>
Min Conc: <None>

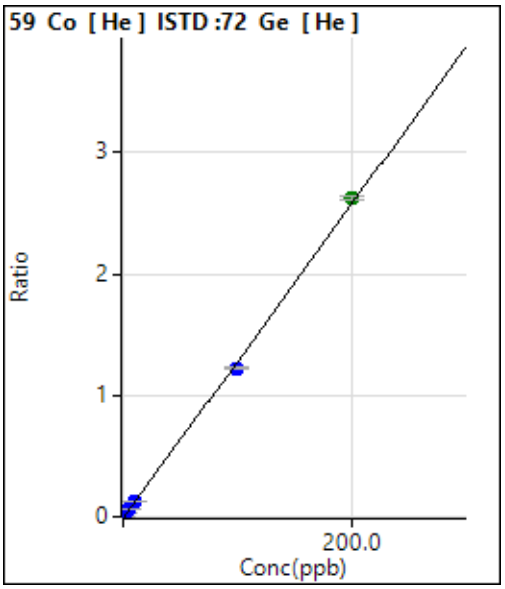
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19894.62	0.0254	P	1.6	
2	☐	200.000	189.312	1196572.38	1.5366	A	2.4	-5.3
3	☐	500.000	485.044	3026576.73	3.8974	A	1.8	-3.0
4	☐	1000.000	995.855	6132018.24	7.9751	A	2.3	-0.4
5	☐	10000.00	9544.277	56402962.49	76.2156	A	2.2	-4.6
6	☐	20000.00	20228.54	116870611.5	161.506	A	1.5	1.1

y = 0.0080 * x + 0.0254
R = 0.9996
DL = 0.1481 ppb
BEC = 3.182 ppb

Weight: <None>
Min Conc: <None>

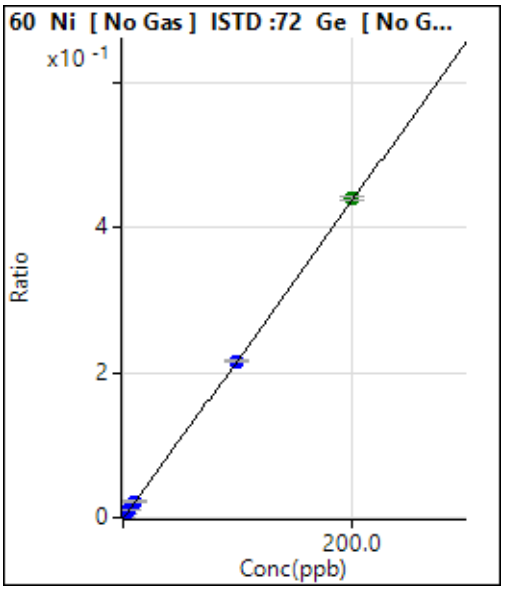


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0004	P	8.8	
2	☐	2.000	1.884	19307.12	0.0248	P	2.7	-5.8
3	☐	5.000	4.849	49050.62	0.0632	P	0.8	-3.0
4	☐	10.000	9.818	98006.73	0.1275	P	3.4	-1.8
5	☐	100.000	94.319	903636.13	1.2211	P	1.6	-5.7
6	☐	200.000	202.855	1900057.73	2.6258	A	1.4	1.4

y = 0.0129 * x + 4.0872E-004
R = 0.9994
DL = 0.008384 ppb
BEC = 0.03158 ppb

Weight: <None>
Min Conc: <None>

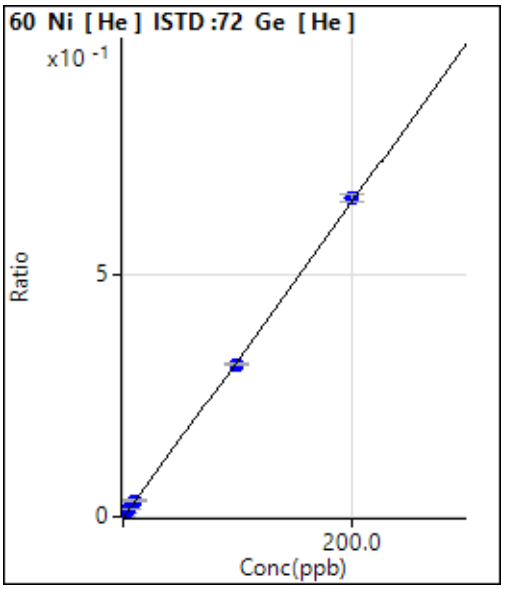
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0003	P	9.3	
2	☐	2.000	2.008	13033.04	0.0047	P	1.3	0.4
3	☐	5.000	5.064	31312.63	0.0114	P	3.4	1.3
4	☐	10.000	10.130	61523.56	0.0225	P	1.3	1.3
5	☐	100.000	98.261	566638.22	0.2159	P	1.6	-1.7
6	☐	200.000	200.861	1122317.56	0.4410	A	0.9	0.4

y = 0.0022 * x + 3.1313E-004
R = 0.9999
DL = 0.03995 ppb
BEC = 0.1427 ppb

Weight: <None>
Min Conc: <None>

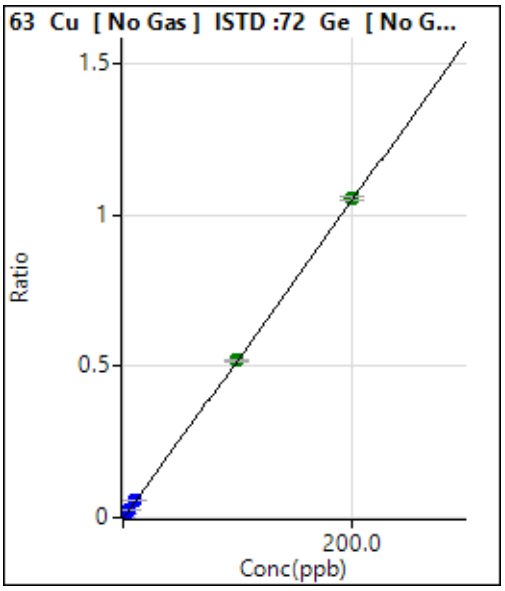


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0003	P	12.9	
2	☐	2.000	1.952	5237.76	0.0067	P	2.7	-2.4
3	☐	5.000	4.915	12756.10	0.0164	P	0.8	-1.7
4	☐	10.000	10.055	25567.34	0.0333	P	5.7	0.5
5	☐	100.000	96.516	234079.81	0.3163	P	1.9	-3.5
6	☐	200.000	201.742	478169.86	0.6608	P	2.4	0.9

y = 0.0033 * x + 3.3611E-004
R = 0.9998
DL = 0.03985 ppb
BEC = 0.1027 ppb

Weight: <None>
Min Conc: <None>

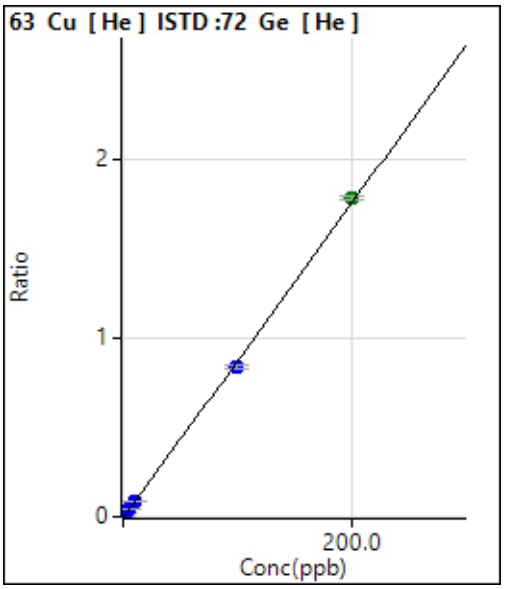
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1626.79	0.0006	P	4.9	
2	☐	2.000	2.049	31429.43	0.0114	P	2.2	2.4
3	☐	5.000	5.130	75661.23	0.0276	P	2.4	2.6
4	☐	10.000	10.296	149626.46	0.0548	P	1.1	3.0
5	☐	100.000	98.696	1365690.09	0.5204	A	1.1	-1.3
6	☐	200.000	200.634	2690477.04	1.0573	A	1.3	0.3

y = 0.0053 * x + 5.8772E-004
R = 1.0000
DL = 0.01655 ppb
BEC = 0.1116 ppb

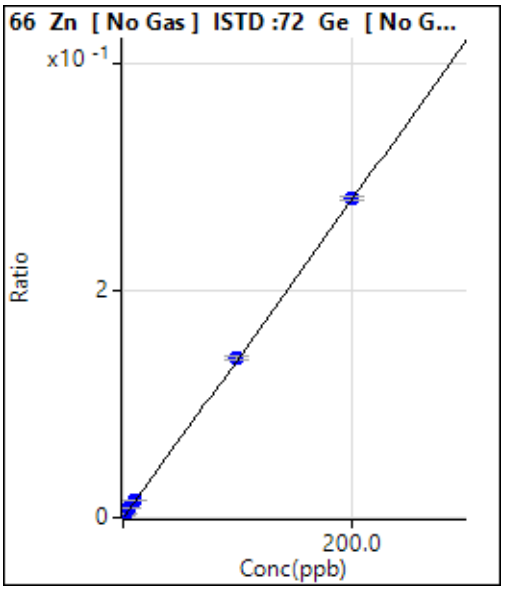
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0008	P	9.9	
2	☐	2.000	1.975	14180.86	0.0182	P	4.3	-1.3
3	☐	5.000	4.975	34727.63	0.0447	P	1.8	-0.5
4	☐	10.000	10.086	69106.74	0.0899	P	1.3	0.9
5	☐	100.000	95.361	624093.85	0.8433	P	2.0	-4.6
6	☐	200.000	202.316	1294061.54	1.7883	A	1.6	1.2

y = 0.0088 * x + 7.6598E-004
R = 0.9996
DL = 0.02568 ppb
BEC = 0.08669 ppb

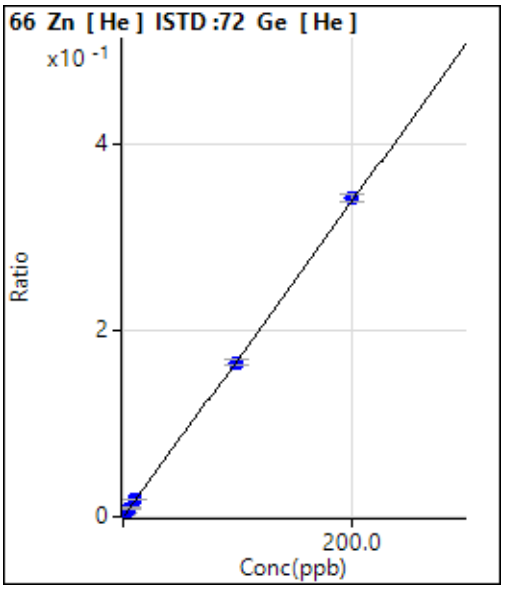
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2456.93	0.0009	P	5.3	
2	☐	2.000	2.026	10294.06	0.0037	P	4.1	1.3
3	☐	5.000	5.306	22809.26	0.0083	P	2.9	6.1
4	☐	10.000	10.338	41957.74	0.0154	P	2.6	3.4
5	☐	100.000	99.672	368847.17	0.1405	P	1.8	-0.3
6	☐	200.000	200.139	715848.79	0.2813	P	1.0	0.1

y = 0.0014 * x + 8.8770E-004
R = 1.0000
DL = 0.1011 ppb
BEC = 0.6336 ppb

Weight: <None>
Min Conc: <None>

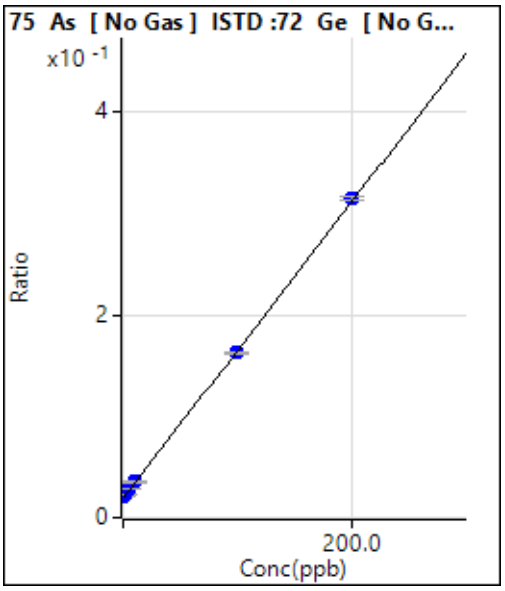


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	906.71	0.0012	P	7.6	
2	☐	2.000	2.012	3553.88	0.0046	P	3.1	0.6
3	☐	5.000	4.753	7145.32	0.0092	P	1.6	-4.9
4	☐	10.000	9.920	13800.40	0.0179	P	2.4	-0.8
5	☐	100.000	97.220	122634.62	0.1657	P	3.2	-2.8
6	☐	200.000	201.400	247505.45	0.3420	P	2.0	0.7

y = 0.0017 * x + 0.0012
R = 0.9999
DL = 0.1563 ppb
BEC = 0.684 ppb

Weight: <None>
Min Conc: <None>

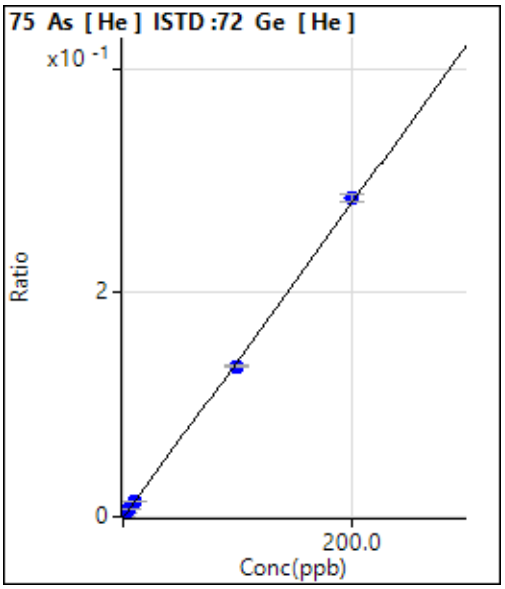
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57340.72	0.0207	P	0.5	
2	☐	2.000	2.035	65440.12	0.0237	P	0.3	1.7
3	☐	5.000	5.200	77617.38	0.0283	P	1.1	4.0
4	☐	10.000	10.000	96456.09	0.0353	P	2.5	0.0
5	☐	100.000	97.055	426818.08	0.1626	P	1.6	-2.9
6	☐	200.000	201.467	802394.62	0.3153	P	1.6	0.7

y = 0.0015 * x + 0.0207
R = 0.9998
DL = 0.2331 ppb
BEC = 14.17 ppb

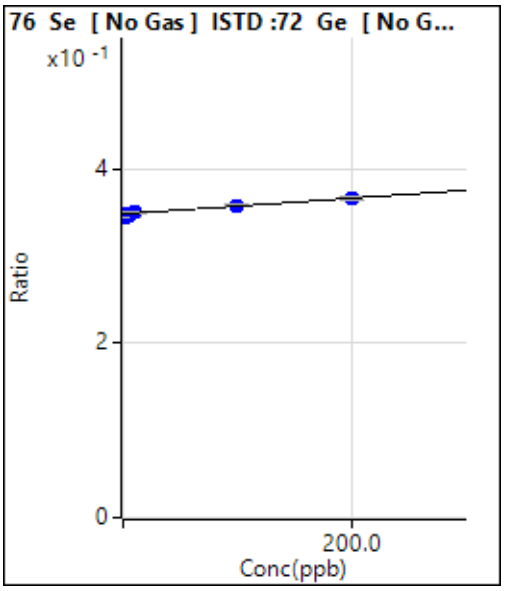
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.67	0.0004	P	7.2	
2	☐	2.000	1.966	2464.68	0.0032	P	3.0	-1.7
3	☐	5.000	4.843	5595.62	0.0072	P	2.4	-3.1
4	☐	10.000	9.642	10723.13	0.0139	P	2.2	-3.6
5	☐	100.000	95.160	99197.46	0.1341	P	1.0	-4.8
6	☐	200.000	202.442	206029.47	0.2847	P	2.4	1.2

y = 0.0014 * x + 4.0426E-004
R = 0.9996
DL = 0.06258 ppb
BEC = 0.2878 ppb

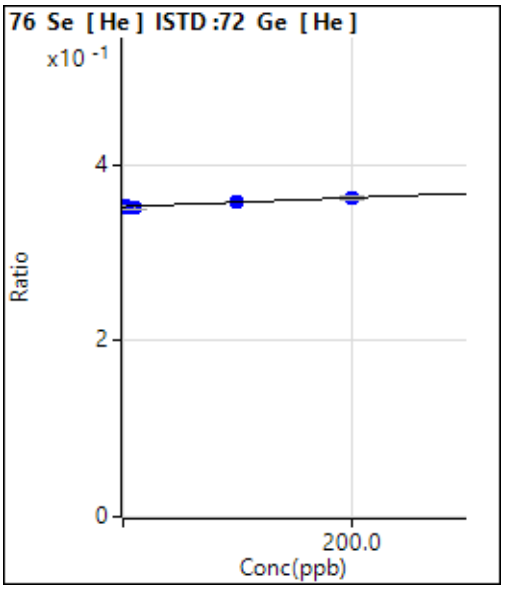
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	964449.83	0.3484	P	0.7	
2	☐	2.000	-34.153	953861.89	0.3453	P	0.1	-1807.7
3	☐	5.000	-12.512	951751.63	0.3473	P	1.2	-350.2
4	☐	10.000	22.069	956605.06	0.3504	P	0.7	120.7
5	☐	100.000	106.437	939797.64	0.3581	P	0.6	6.4
6	☐	200.000	196.977	932289.20	0.3664	P	1.0	-1.5

y = 9.1040E-005 * x + 0.3484
R = 0.9813
DL = 76.06 ppb
BEC = 3827 ppb

Weight: <None>
Min Conc: <None>

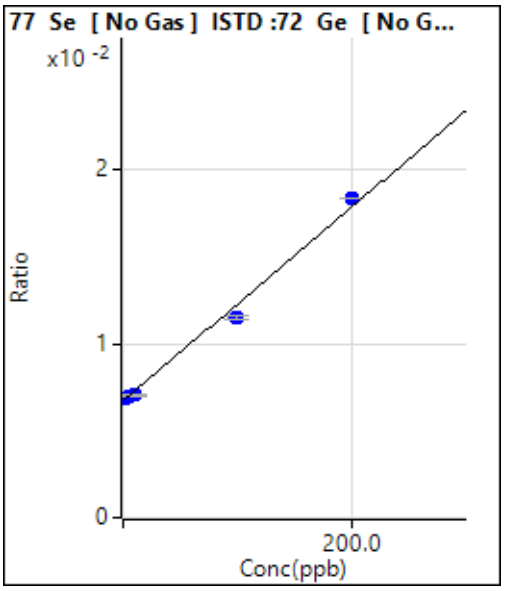


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276120.31	0.3525	P	0.7	
2	☐	2.000	2.937	274652.09	0.3527	P	0.6	46.9
3	☐	5.000	-19.736	272962.69	0.3515	P	0.2	-494.7
4	☐	10.000	-14.902	270475.83	0.3518	P	1.2	-249.0
5	☐	100.000	116.662	265320.74	0.3586	P	0.2	16.7
6	☐	200.000	193.523	262331.56	0.3625	P	1.0	-3.2

y = 5.1530E-005 * x + 0.3525
R = 0.9846
DL = 135.4 ppb
BEC = 6841 ppb

Weight: <None>
Min Conc: <None>

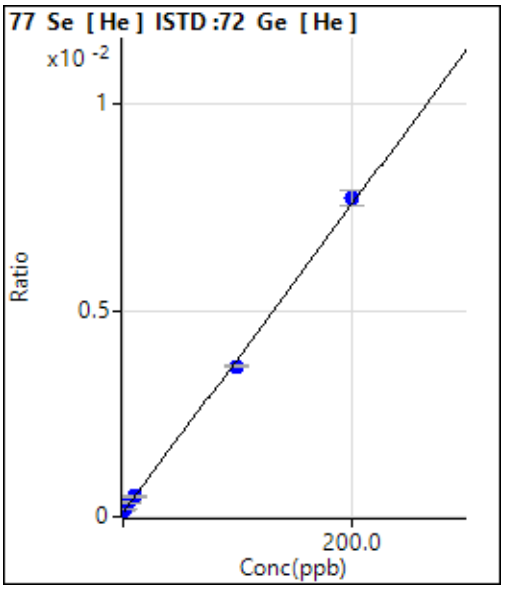
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.33	0.0068	P	1.3	
2	☐	2.000	0.484	18926.85	0.0069	P	2.9	-75.8
3	☐	5.000	3.393	19223.86	0.0070	P	1.9	-32.1
4	☐	10.000	3.949	19230.54	0.0070	P	0.6	-60.5
5	☐	100.000	84.919	30290.71	0.0115	P	2.3	-15.1
6	☐	200.000	207.898	46760.28	0.0184	P	0.5	3.9

y = 5.5556E-005 * x + 0.0068
R = 0.9963
DL = 4.645 ppb
BEC = 122.9 ppb

Weight: <None>
Min Conc: <None>

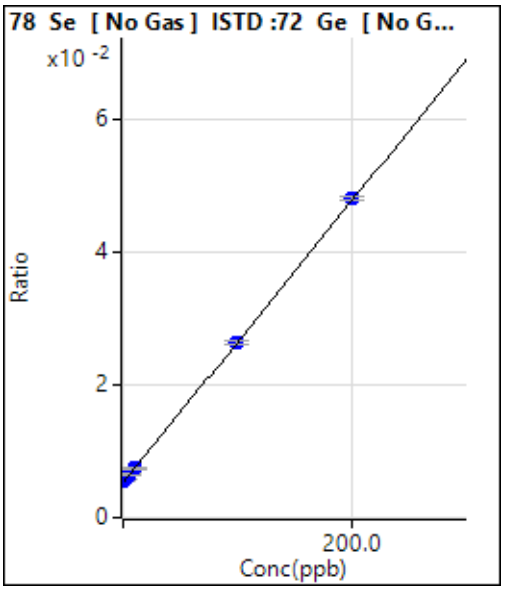


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0001	P	4.8	
2	☐	2.000	1.171	146.67	0.0002	P	21.0	-41.4
3	☐	5.000	5.674	276.68	0.0004	P	9.6	13.5
4	☐	10.000	9.252	376.68	0.0005	P	17.0	-7.5
5	☐	100.000	93.540	2690.32	0.0036	P	1.4	-6.5
6	☐	200.000	203.259	5594.58	0.0077	P	4.4	1.6

y = 3.7321E-005 * x + 1.4469E-004
R = 0.9993
DL = 0.5551 ppb
BEC = 3.877 ppb

Weight: <None>
Min Conc: <None>

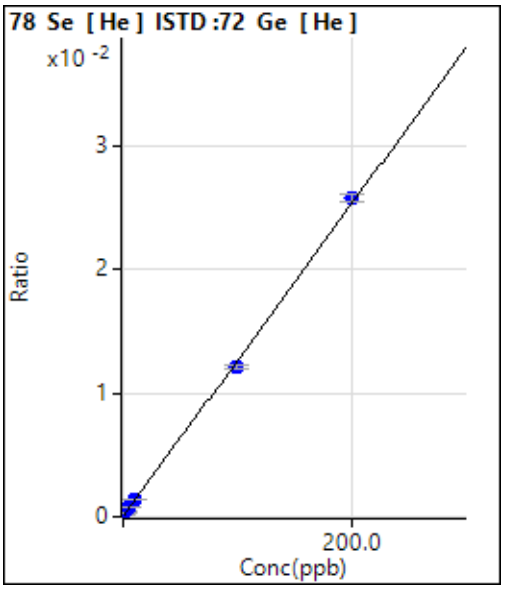
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15248.81	0.0055	P	1.6	
2	☐	2.000	1.431	16053.06	0.0058	P	2.2	-28.5
3	☐	5.000	4.536	17731.87	0.0065	P	3.1	-9.3
4	☐	10.000	9.201	20355.46	0.0075	P	4.4	-8.0
5	☐	100.000	98.554	69225.47	0.0264	P	1.5	-1.4
6	☐	200.000	200.780	122204.65	0.0480	P	1.2	0.4

y = 2.1174E-004 * x + 0.0055
R = 1.0000
DL = 1.21 ppb
BEC = 26.02 ppb

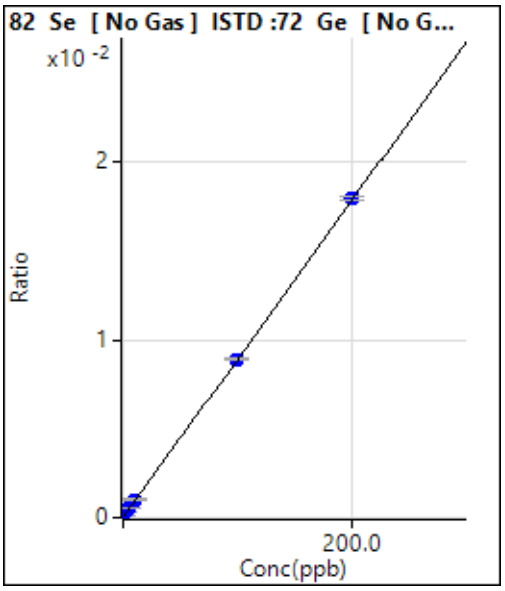
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	134.67	0.0002	P	9.2	
2	☐	2.000	1.723	303.34	0.0004	P	16.3	-13.9
3	☐	5.000	4.697	594.01	0.0008	P	7.0	-6.1
4	☐	10.000	9.783	1082.04	0.0014	P	5.0	-2.2
5	☐	100.000	94.578	8966.30	0.0121	P	2.7	-5.4
6	☐	200.000	202.732	18650.09	0.0258	P	2.3	1.4

y = 1.2629E-004 * x + 1.7189E-004
R = 0.9995
DL = 0.3746 ppb
BEC = 1.361 ppb

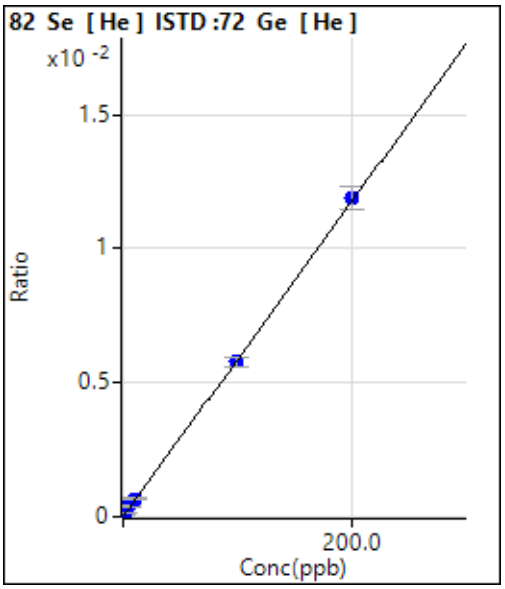
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	306.68	0.0001	P	16.5	
2	☐	2.000	1.873	766.70	0.0003	P	4.0	-6.3
3	☐	5.000	5.107	1550.12	0.0006	P	4.5	2.1
4	☐	10.000	10.196	2780.35	0.0010	P	9.0	2.0
5	☐	100.000	98.931	23413.94	0.0089	P	2.0	-1.1
6	☐	200.000	200.523	45723.90	0.0180	P	1.6	0.3

y = 8.9057E-005 * x + 1.1076E-004
R = 1.0000
DL = 0.6149 ppb
BEC = 1.244 ppb

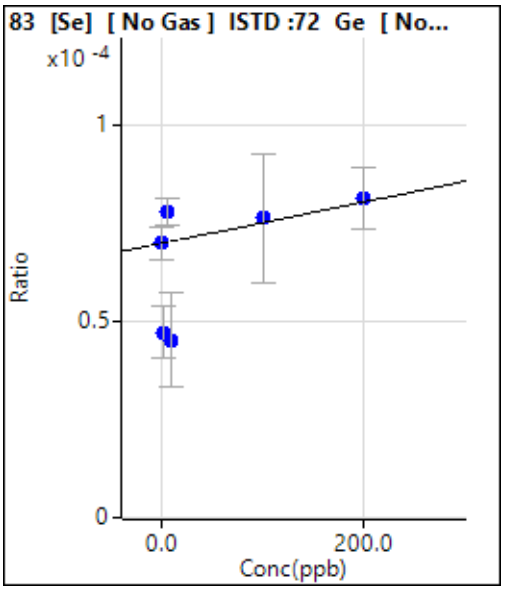
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	34.9	
2	☐	2.000	1.681	126.67	0.0002	P	16.7	-16.0
3	☐	5.000	6.072	326.68	0.0004	P	20.0	21.4
4	☐	10.000	10.420	520.02	0.0007	P	17.8	4.2
5	☐	100.000	97.308	4280.75	0.0058	P	6.3	-2.7
6	☐	200.000	201.301	8609.59	0.0119	P	7.0	0.7

y = 5.8789E-005 * x + 6.3889E-005
R = 0.9998
DL = 1.137 ppb
BEC = 1.087 ppb

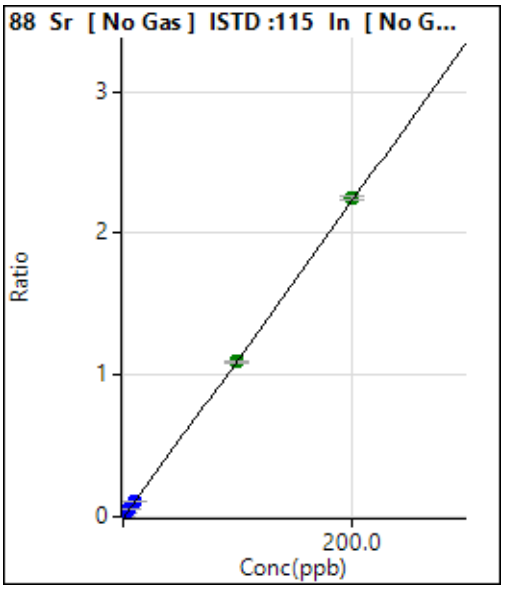
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	12.2	
2	☐	2.000	-431.078	130.00	0.0000	P	28.0	-21653.
3	☐	5.000	150.529	213.34	0.0001	P	9.1	2910.6
4	☐	10.000	-466.543	123.33	0.0000	P	52.8	-4765.4
5	☐	100.000	118.247	200.00	0.0001	P	42.7	18.2
6	☐	200.000	215.396	206.67	0.0001	P	19.7	7.7

y = 5.2823E-008 * x + 6.9859E-005
R = 0.5821
DL = 482.1 ppb
BEC = 1323 ppb

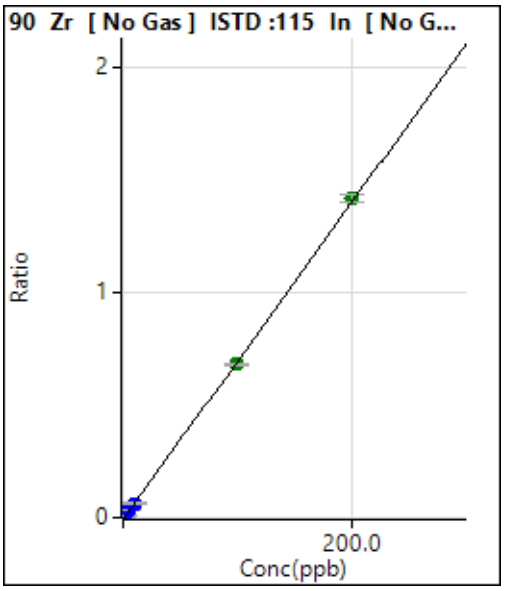
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2050.19	0.0006	P	8.6	
2	☐	2.000	1.968	81035.10	0.0226	P	1.6	-1.6
3	☐	5.000	4.962	200779.89	0.0560	P	3.4	-0.8
4	☐	10.000	9.858	398184.94	0.1108	P	1.7	-1.4
5	☐	100.000	97.569	3725471.09	1.0912	A	2.1	-2.4
6	☐	200.000	201.224	7444901.76	2.2499	A	1.4	0.6

y = 0.0112 * x + 5.7259E-004
R = 0.9999
DL = 0.01323 ppb
BEC = 0.05122 ppb

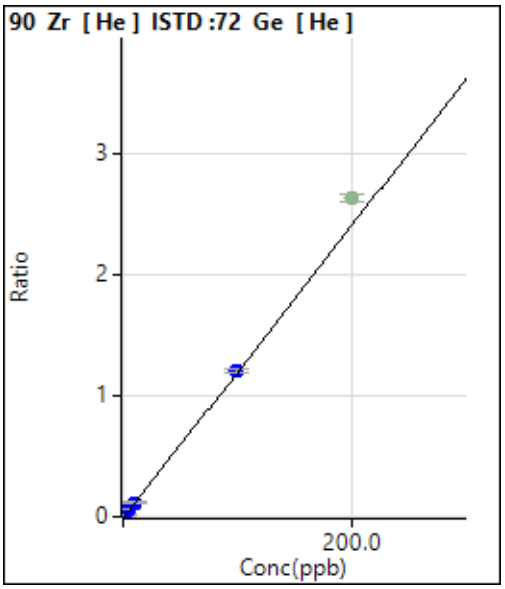
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0003	P	2.5	
2	☐	2.000	1.612	41905.50	0.0117	P	3.8	-19.4
3	☐	5.000	4.333	110428.43	0.0308	P	2.1	-13.3
4	☐	10.000	9.034	229720.13	0.0639	P	1.5	-9.7
5	☐	100.000	96.694	2324542.26	0.6809	A	2.2	-3.3
6	☐	200.000	201.722	4698977.22	1.4201	A	1.9	0.9

y = 0.0070 * x + 3.2394E-004
R = 0.9998
DL = 0.003504 ppb
BEC = 0.04603 ppb

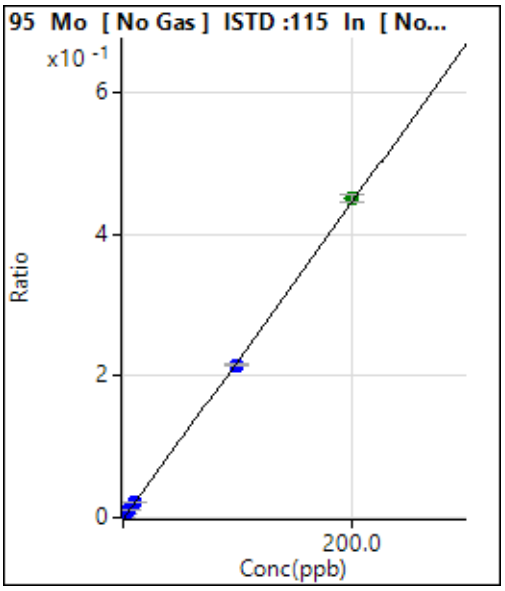
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0017	P	10.7	
2	☐	2.000	1.668	17021.02	0.0219	P	1.2	-16.6
3	☐	5.000	4.578	44252.81	0.0570	P	1.7	-8.4
4	☐	10.000	9.688	91260.17	0.1187	P	2.0	-3.1
5	☐	100.000	100.059	895303.56	1.2098	P	2.6	0.1
6	☑	200.000		1904685.70	2.6322	A	2.4	

y = 0.0121 * x + 0.0017
R = 1.0000
DL = 0.04578 ppb
BEC = 0.1421 ppb

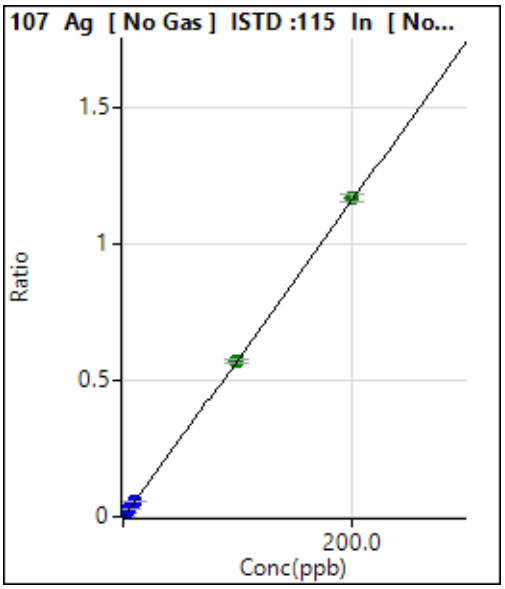
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0001	P	27.6	
2	☐	2.000	1.858	15132.06	0.0042	P	3.4	-7.1
3	☐	5.000	4.755	38274.67	0.0107	P	3.6	-4.9
4	☐	10.000	9.406	75722.19	0.0211	P	2.4	-5.9
5	☐	100.000	96.579	736414.84	0.2157	P	2.3	-3.4
6	☐	200.000	201.748	1490733.83	0.4505	A	2.2	0.9

y = 0.0022 * x + 6.5128E-005
R = 0.9998
DL = 0.0242 ppb
BEC = 0.02917 ppb

Weight: <None>
Min Conc: <None>

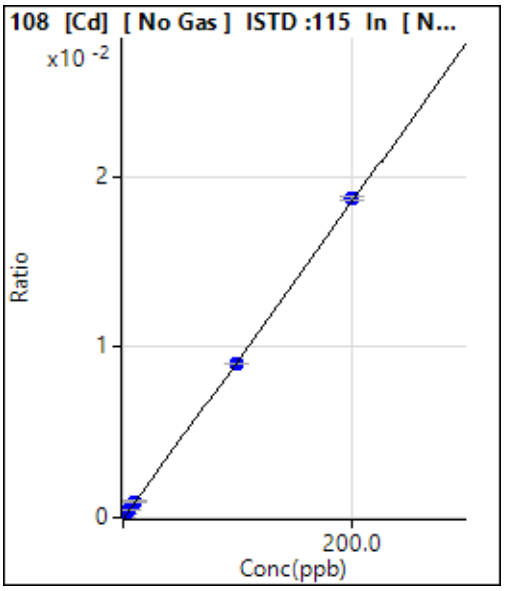


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.70	0.0002	P	12.6	
2	☐	2.000	1.995	42544.71	0.0118	P	3.3	-0.2
3	☐	5.000	5.072	106669.91	0.0298	P	2.2	1.4
4	☐	10.000	10.013	210517.69	0.0586	P	2.7	0.1
5	☐	100.000	98.055	1951426.84	0.5716	A	2.0	-1.9
6	☐	200.000	200.970	3875701.51	1.1713	A	1.9	0.5

y = 0.0058 * x + 2.2243E-004
R = 0.9999
DL = 0.01448 ppb
BEC = 0.03817 ppb

Weight: <None>
Min Conc: <None>

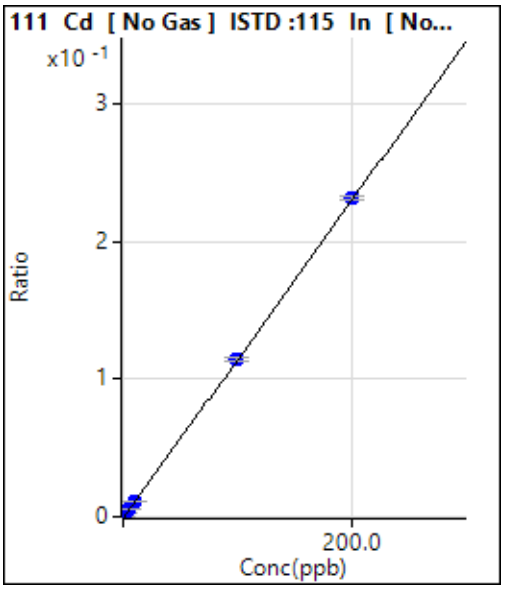
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.3	
2	☐	2.000	2.067	700.03	0.0002	P	18.7	3.3
3	☐	5.000	5.152	1726.81	0.0005	P	5.2	3.0
4	☐	10.000	10.151	3403.84	0.0009	P	3.3	1.5
5	☐	100.000	97.092	30835.77	0.0090	P	0.4	-2.9
6	☐	200.000	201.442	61997.17	0.0187	P	1.8	0.7

y = 9.2995E-005 * x + 2.7925E-006
R = 0.9998
DL = 0.0002487 ppb
BEC = 0.03003 ppb

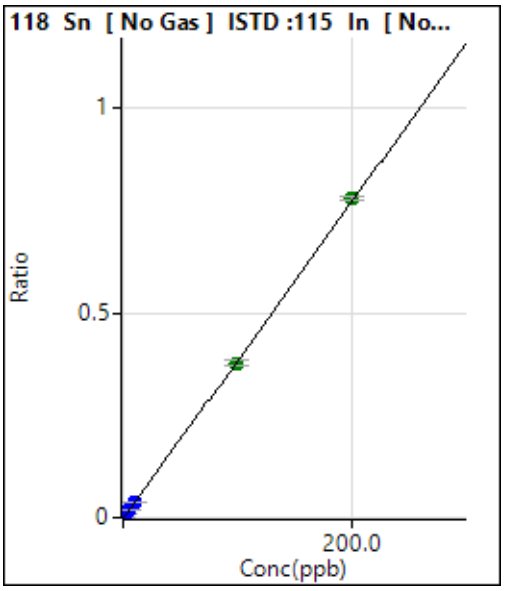
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79.27	0.0000	P	25.2	
2	☐	2.000	1.919	8051.91	0.0022	P	6.9	-4.1
3	☐	5.000	4.933	20522.90	0.0057	P	3.4	-1.3
4	☐	10.000	9.798	40825.51	0.0114	P	2.4	-2.0
5	☐	100.000	98.739	390069.23	0.1143	P	2.0	-1.3
6	☐	200.000	200.643	768181.74	0.2321	P	1.2	0.3

y = 0.0012 * x + 2.2138E-005
R = 1.0000
DL = 0.01449 ppb
BEC = 0.01914 ppb

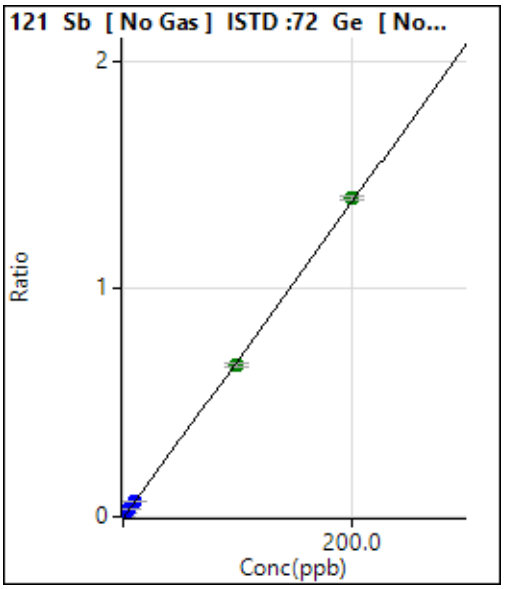
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3933.98	0.0011	P	5.3	
2	☐	2.000	1.961	31170.16	0.0087	P	0.7	-2.0
3	☐	5.000	4.885	71599.30	0.0200	P	0.9	-2.3
4	☐	10.000	9.745	139404.93	0.0388	P	2.1	-2.6
5	☐	100.000	97.395	1289413.81	0.3777	A	3.0	-2.6
6	☐	200.000	201.318	2579378.76	0.7795	A	1.4	0.7

y = 0.0039 * x + 0.0011
R = 0.9999
DL = 0.04483 ppb
BEC = 0.2841 ppb

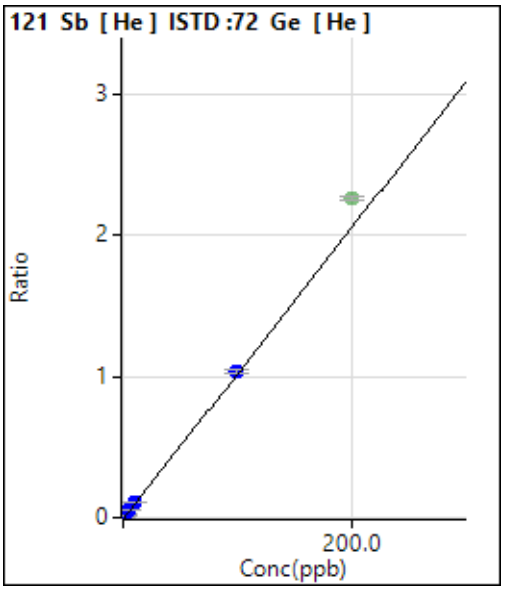
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0003	P	10.9	
2	☐	2.000	1.891	37092.18	0.0134	P	2.4	-5.5
3	☐	5.000	4.830	92645.46	0.0338	P	1.3	-3.4
4	☐	10.000	9.763	185632.76	0.0680	P	2.2	-2.4
5	☐	100.000	96.300	1753151.12	0.6680	A	2.0	-3.7
6	☐	200.000	201.867	3562489.53	1.3999	A	0.8	0.9

y = 0.0069 * x + 3.1794E-004
R = 0.9998
DL = 0.01495 ppb
BEC = 0.04586 ppb

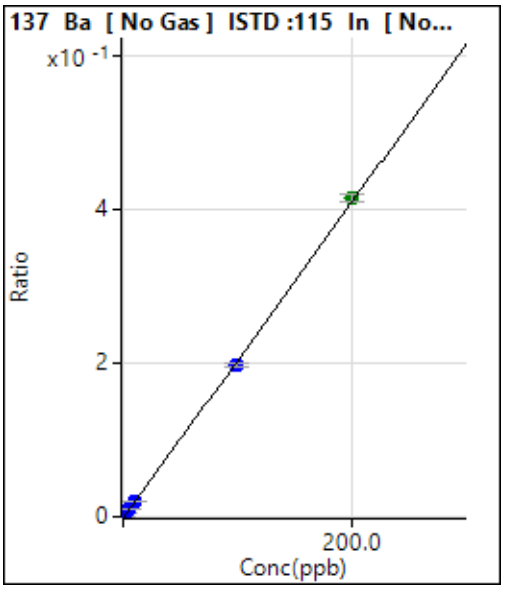
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0004	P	19.8	
2	☐	2.000	1.960	16106.68	0.0207	P	2.5	-2.0
3	☐	5.000	4.984	40335.00	0.0519	P	1.6	-0.3
4	☐	10.000	10.302	82207.29	0.1069	P	3.4	3.0
5	☐	100.000	99.971	765101.92	1.0339	P	2.5	0.0
6	☑	200.000		1639505.24	2.2657	A	0.9	

y = 0.0103 * x + 4.2551E-004
R = 1.0000
DL = 0.0244 ppb
BEC = 0.04116 ppb

Weight: <None>
Min Conc: <None>

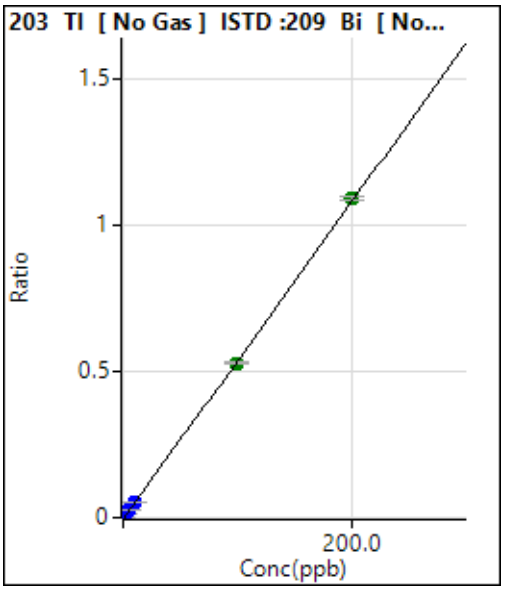


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0002	P	13.1	
2	☐	2.000	1.939	14928.66	0.0042	P	2.0	-3.1
3	☐	5.000	4.797	35889.37	0.0100	P	1.5	-4.1
4	☐	10.000	9.545	71008.44	0.0198	P	2.4	-4.5
5	☐	100.000	96.246	674393.61	0.1975	P	1.8	-3.8
6	☐	200.000	201.906	1370541.07	0.4142	A	2.1	1.0

y = 0.0021 * x + 1.8147E-004
R = 0.9998
DL = 0.03472 ppb
BEC = 0.0885 ppb

Weight: <None>
Min Conc: <None>

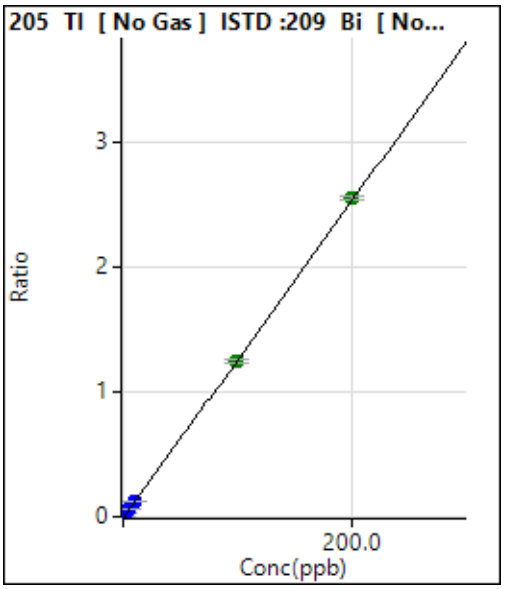
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.38	0.0002	P	12.8	
2	☐	2.000	1.983	40632.33	0.0110	P	2.1	-0.9
3	☐	5.000	4.999	101224.34	0.0273	P	2.8	0.0
4	☐	10.000	9.974	201815.17	0.0543	P	1.1	-0.3
5	☐	100.000	97.555	1894447.94	0.5296	A	2.3	-2.4
6	☐	200.000	201.224	3786081.09	1.0921	A	1.2	0.6

y = 0.0054 * x + 2.1055E-004
R = 0.9999
DL = 0.01485 ppb
BEC = 0.0388 ppb

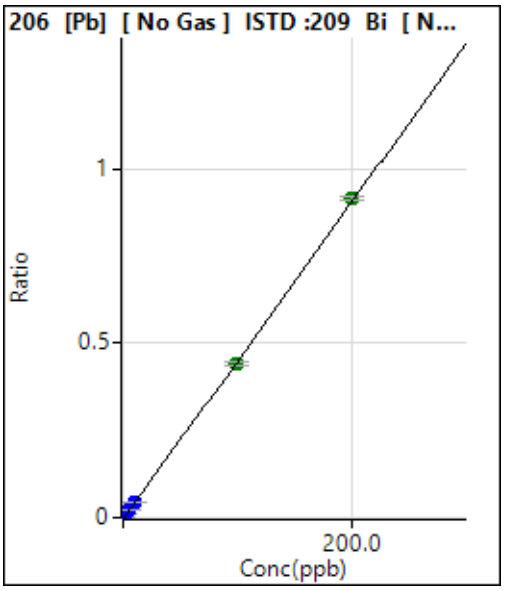
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1563.46	0.0004	P	15.3	
2	☐	2.000	2.018	96544.71	0.0261	P	2.2	0.9
3	☐	5.000	5.092	241227.03	0.0651	P	2.4	1.8
4	☐	10.000	10.148	480696.61	0.1294	P	1.7	1.5
5	☐	100.000	97.989	4457224.10	1.2459	A	2.1	-2.0
6	☐	200.000	200.996	8858542.16	2.5552	A	1.5	0.5

y = 0.0127 * x + 4.2015E-004
R = 0.9999
DL = 0.01513 ppb
BEC = 0.03305 ppb

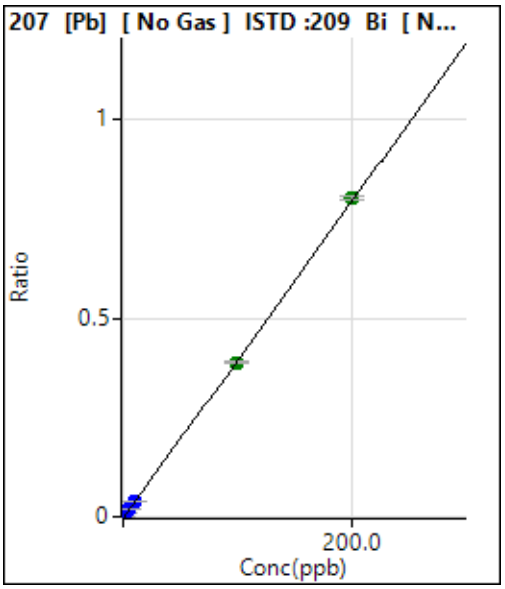
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	773.37	0.0002	P	15.5	
2	☐	2.000	1.955	33642.00	0.0091	P	1.9	-2.2
3	☐	5.000	4.954	84019.85	0.0227	P	3.1	-0.9
4	☐	10.000	10.031	169887.31	0.0457	P	1.2	0.3
5	☐	100.000	97.040	1576359.19	0.4406	A	2.0	-3.0
6	☐	200.000	201.480	3171026.00	0.9147	A	1.7	0.7

y = 0.0045 * x + 2.0792E-004
R = 0.9998
DL = 0.02134 ppb
BEC = 0.04581 ppb

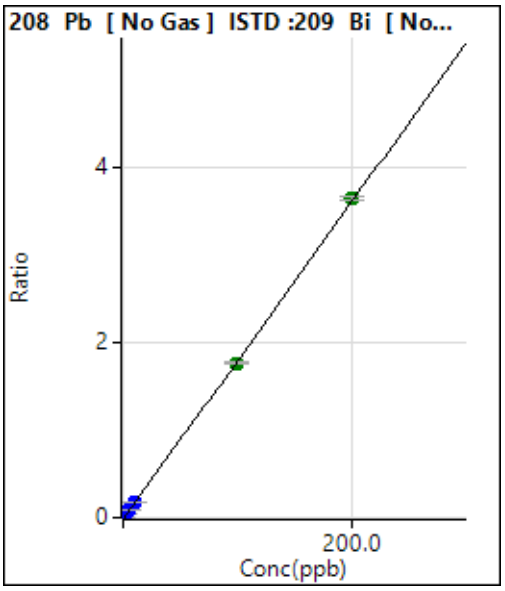
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.37	0.0002	P	9.8	
2	☐	2.000	1.998	30213.19	0.0082	P	1.8	-0.1
3	☐	5.000	4.954	73852.60	0.0199	P	1.3	-0.9
4	☐	10.000	9.884	147132.54	0.0396	P	1.0	-1.2
5	☐	100.000	97.288	1388849.67	0.3882	A	1.7	-2.7
6	☐	200.000	201.363	2785032.87	0.8033	A	1.1	0.7

y = 0.0040 * x + 1.8639E-004
R = 0.9999
DL = 0.01374 ppb
BEC = 0.04673 ppb

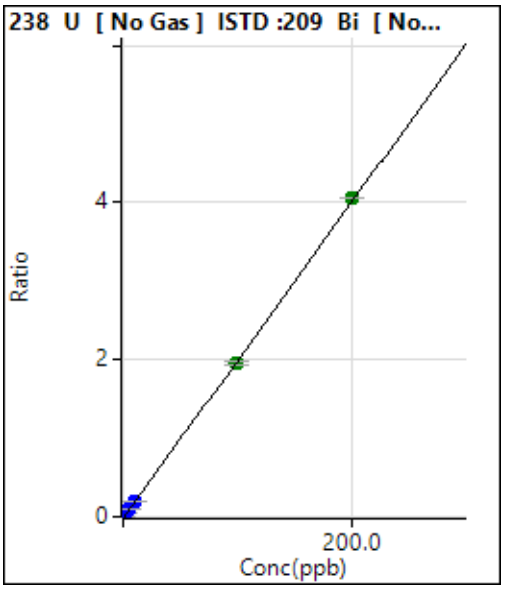
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3066.87	0.0008	P	5.7	
2	☐	2.000	1.966	135324.42	0.0365	P	1.8	-1.7
3	☐	5.000	4.948	335773.60	0.0907	P	2.2	-1.0
4	☐	10.000	9.957	674750.46	0.1817	P	1.4	-0.4
5	☐	100.000	97.556	6341054.44	1.7725	A	2.0	-2.4
6	☐	200.000	201.226	12672095.02	3.6552	A	1.2	0.6

y = 0.0182 * x + 8.2440E-004
R = 0.9999
DL = 0.00771 ppb
BEC = 0.04539 ppb

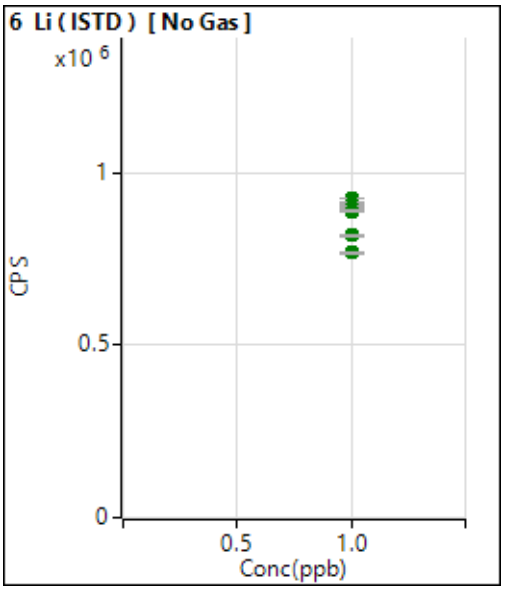
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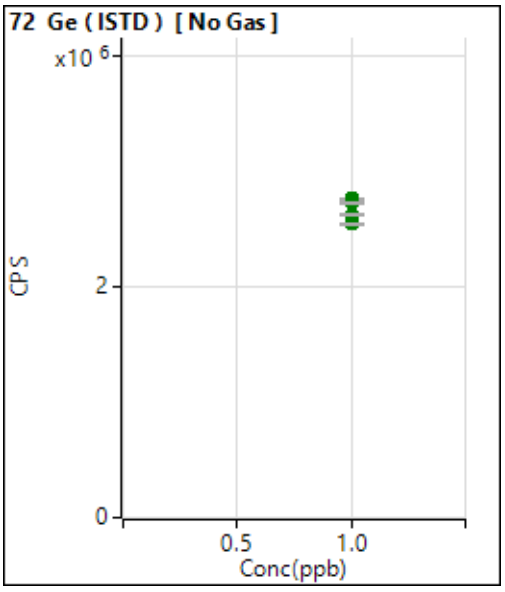
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1900.18	0.0005	P	2.5	
2	☐	2.000	1.845	139419.83	0.0376	P	1.9	-7.7
3	☐	5.000	4.733	354555.30	0.0958	P	1.4	-5.3
4	☐	10.000	9.462	709163.35	0.1909	P	1.1	-5.4
5	☐	100.000	96.705	6963452.81	1.9465	A	2.5	-3.3
6	☐	200.000	201.683	14071646.46	4.0590	A	0.4	0.8

y = 0.0201 * x + 5.1076E-004
R = 0.9998
DL = 0.001885 ppb
BEC = 0.02538 ppb

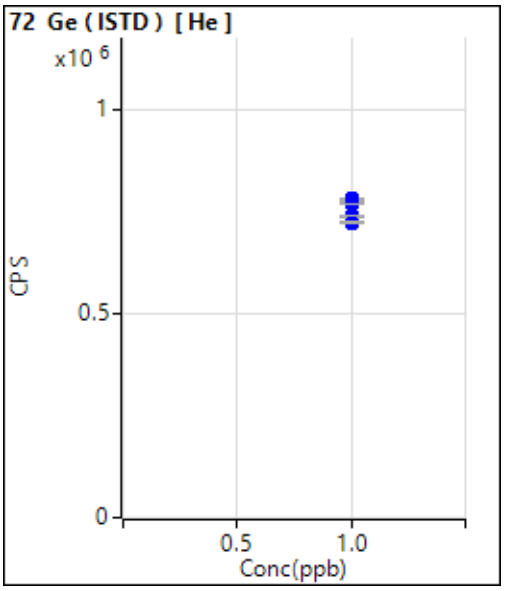
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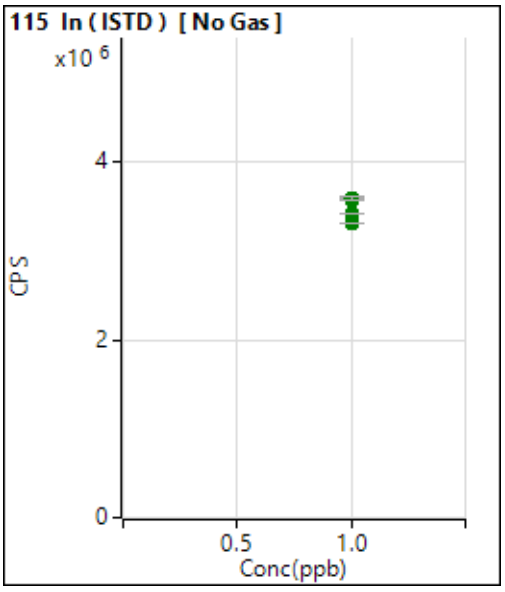
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		925046.91		A	0.3	
2	☐	1.000		910090.95		A	0.3	
3	☐	1.000		898410.34		A	0.6	
4	☐	1.000		887536.48		A	0.6	
5	☐	1.000		816416.59		A	0.7	
6	☐	1.000		766281.29		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2767984.33		A	0.3	
2	☐	1.000		2762231.42		A	0.4	
3	☐	1.000		2740635.27		A	0.7	
4	☐	1.000		2729773.60		A	0.5	
5	☐	1.000		2624311.16		A	0.8	
6	☐	1.000		2544719.96		A	0.4	

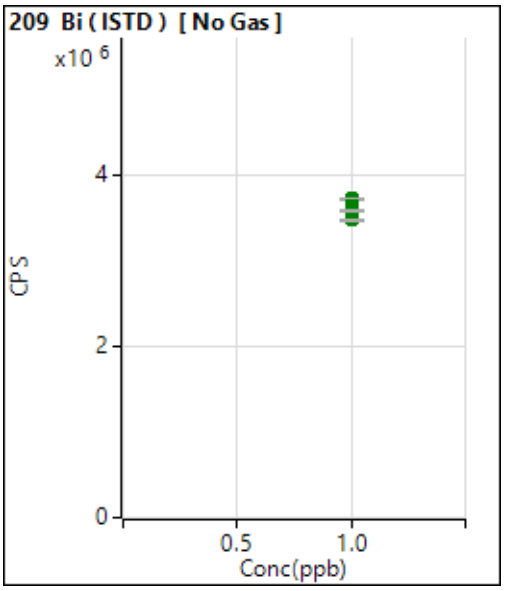


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		783220.07		P	0.6	
2	☐	1.000		778735.46		P	0.3	
3	☐	1.000		776516.79		P	0.6	
4	☐	1.000		768900.07		P	0.2	
5	☐	1.000		739983.09		P	0.6	
6	☐	1.000		723640.25		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3581092.47		A	0.3	
2	☐	1.000		3590901.90		A	0.1	
3	☐	1.000		3582606.62		A	0.3	
4	☐	1.000		3594961.40		A	0.7	
5	☐	1.000		3414111.39		A	0.1	
6	☐	1.000		3309119.69		A	0.3	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3720386.09		A	0.2	
2	☐	1.000		3704045.15		A	0.8	
3	☐	1.000		3702864.53		A	0.7	
4	☐	1.000		3714470.67		A	0.2	
5	☐	1.000		3577512.03		A	0.3	
6	☐	1.000		3466716.51		A	0.4	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:15:32-05:00
Sample Type	LLCCV2
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	2.034	2.034	4.57	71307	0.00	2	
Be	9	1	No Gas	1.997	1.997	5.95	6146	0.03	2	
V	51	2	He	1.512	1.512	5.72	15371	0.01	2	
Cr	52	2	He	1.948	1.948	8.95	19658	0.01	2	
Fe	56	2	He	200.778	200.778	2.07	1235253	0.02	200	
Se	78	2	He	2.042	2.042	7.41	326	0.63	2	
As	75	2	He	1.951	1.951	5.58	2386	0.08	2	
Ca	44	2	He	211.686	211.686	5.49	8283	2.56	200	
Na	23	2	He	202.096	202.096	2.03	242339	0.08	200	
Mg	24	2	He	199.073	199.073	1.12	111542	0.18	200	
K	39	2	He	194.832	194.832	1.47	219294	0.09	200	
Mn	55	2	He	1.966	1.966	1.26	10514	0.02	2	
Co	59	2	He	2.055	2.055	4.02	20486	0.01	2	
Ni	60	2	He	2.004	2.004	3.61	5231	0.04	2	
Cu	63	2	He	2.135	2.135	6.75	14895	0.01	2	
Zn	66	2	He	1.964	1.964	5.15	3400	0.06	2	
Al	27	2	He	1.580	1.580	17.02	1477	0.11	2	
B	11	1	No Gas	11.335	11.335	4.22	28163	0.04	10	
Al	27	1	No Gas	2.044	2.044	1.15	62633	0.00	2	
Si	28	1	No Gas	7.653	7.653	15.66	307878	0.00	10	
Ag	107	1	No Gas	2.051	2.051	2.33	43023	0.00	2	
Cd	111	1	No Gas	2.046	2.046	2.59	8441	0.02	2	
Sr	88	1	No Gas	1.992	1.992	0.68	80700	0.00	2	
Mo	95	1	No Gas	1.978	1.978	2.97	15836	0.01	2	
Sn	118	1	No Gas	2.015	2.015	1.91	31411	0.01	2	
Sb	121	1	No Gas	1.995	1.995	2.07	38135	0.01	2	
Ba	137	1	No Gas	1.981	1.981	1.61	14992	0.01	2	
Tl	205	1	No Gas	2.047	2.047	0.34	99037	0.00	2	
Tl	203	1	No Gas	2.021	2.021	2.04	41877	0.00	2	
Pb	208	1	No Gas	2.004	2.004	1.32	139439	0.00	2	
U	238	1	No Gas	1.916	1.916	0.95	146326	0.00	2	
Ca	43	2	He	224.341	224.341	8.92	520	43.14	200	
Sb	121	2	He	1.993	1.993	1.84	17145	0.01	2	
Ti	47	2	He	1.861	1.861	16.25	403	0.46	200	
Cu	63	1	No Gas	2.072	2.072	2.49	31002	0.01	2	
Se	82	1	No Gas	2.115	2.115	12.71	807	0.26	2	
Zr	90	1	No Gas	1.714	1.714	2.14	43771	0.00	2	
Zr	90	2	He	1.766	1.766	5.41	18636	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	838232	0.38	925047	90.62	70	120	

Sample Report

Ge	72	2	He	758642	1.02	783220	96.86	70	120	
Ge	72	1	No Gas	2695426	0.82	2767984	97.38	70	120	
In	115	1	No Gas	3533463	0.28	3581092	98.67	70	120	
Bi	209	1	No Gas	3745374	1.16	3720386	100.67	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:17:56-05:00
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	5.210	5.210	1.31	104687	0.00	5	
Be	9	1	No Gas	5.113	5.113	3.31	15313	0.03	5	
V	51	2	He	4.654	4.654	2.68	32595	0.01	5	
Cr	52	2	He	5.167	5.167	2.05	39717	0.01	5	
Fe	56	2	He	522.511	522.511	2.67	3163251	0.02	500	
Se	78	2	He	5.310	5.310	13.52	635	0.84	5	
As	75	2	He	5.063	5.063	5.45	5665	0.09	5	
Ca	44	2	He	520.747	520.747	5.36	19397	2.68	500	
Na	23	2	He	519.818	519.818	2.61	516445	0.10	500	
Mg	24	2	He	517.483	517.483	2.03	285593	0.18	500	
K	39	2	He	501.939	501.939	2.89	430532	0.12	500	
Mn	55	2	He	5.220	5.220	1.87	26509	0.02	5	
Co	59	2	He	5.151	5.151	2.95	50556	0.01	5	
Ni	60	2	He	5.302	5.302	2.59	13340	0.04	5	
Cu	63	2	He	5.377	5.377	4.59	36385	0.01	5	
Zn	66	2	He	5.103	5.103	3.18	7385	0.07	5	
Al	27	2	He	4.846	4.846	13.96	2650	0.18	5	
B	11	1	No Gas	26.144	26.144	0.60	51555	0.05	25	
Al	27	1	No Gas	4.999	4.999	3.42	104741	0.00	5	
Si	28	1	No Gas	22.680	22.680	2.29	414876	0.01	25	
Ag	107	1	No Gas	5.186	5.186	2.83	107634	0.00	5	
Cd	111	1	No Gas	5.110	5.110	3.27	20983	0.02	5	
Sr	88	1	No Gas	5.138	5.138	2.08	205106	0.00	5	
Mo	95	1	No Gas	4.820	4.820	2.56	38278	0.01	5	
Sn	118	1	No Gas	5.043	5.043	1.81	72823	0.01	5	
Sb	121	1	No Gas	5.083	5.083	3.12	95449	0.01	5	
Ba	137	1	No Gas	5.025	5.025	2.65	37079	0.01	5	
Tl	205	1	No Gas	5.248	5.248	1.18	252927	0.00	5	
Tl	203	1	No Gas	5.175	5.175	1.15	106594	0.00	5	
Pb	208	1	No Gas	5.134	5.134	1.40	354390	0.00	5	
U	238	1	No Gas	4.811	4.811	1.05	366718	0.00	5	
Ca	43	2	He	533.082	533.082	3.88	1170	45.56	500	
Sb	121	2	He	4.976	4.976	1.70	42061	0.01	5	
Ti	47	2	He	5.108	5.108	11.49	1083	0.47	5	
Cu	63	1	No Gas	5.212	5.212	2.20	75259	0.01	5	
Se	82	1	No Gas	5.018	5.018	11.58	1497	0.34	5	
Zr	90	1	No Gas	4.518	4.518	1.39	113577	0.00	5	
Zr	90	2	He	4.698	4.698	1.80	47109	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	822542	0.38	925047	88.92	70	120	

Sample Report

Ge	72	2	He	753956	1.34	783220	96.26	70	120	
Ge	72	1	No Gas	2684520	0.33	2767984	96.98	70	120	
In	115	1	No Gas	3535441	0.97	3581092	98.73	70	120	
Bi	209	1	No Gas	3767748	0.62	3720386	101.27	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	021_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:20:20-05:00
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	-0.026	-251.7	47714	1.1	0.5	
Be	9	1	No Gas	0.012	95.5	118	28.1	0.5	
V	51	2	He	-0.485	-2.7	4286	1.9	2.5	
Cr	52	2	He	0.073	60.9	7819	3.6	2.5	
Fe	56	2	He	2.924	3.1	36936	1.2	100	
Se	78	2	He	-0.100	-35.6	121	2.5	1	
As	75	2	He	-0.006	-226.9	300	5.1	2.5	
Ca	44	2	He	28.625	10.6	1627	6.8	100	
Na	23	2	He	1.356	34.8	67015	0.8	100	
Mg	24	2	He	1.461	21.0	2384	7.3	100	
K	39	2	He	-3.906	-21.8	80719	0.4	100	
Mn	55	2	He	0.080	17.3	1147	5.8	2.5	
Co	59	2	He	0.006	44.6	370	7.2	2.5	
Ni	60	2	He	0.087	54.2	470	24.5	2.5	
Cu	63	2	He	0.066	2.9	1020	1.0	1	
Zn	66	2	He	0.431	1.3	1430	0.7	2.5	
Al	27	2	He	1.602	18.5	1483	7.4	5	
B	11	1	No Gas	1.254	16.7	11413	3.3	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.620	4.9	56497	2.2	5	
Si	28	1	No Gas	-0.659	-127.4	247708	2.9	10	
Ag	107	1	No Gas	-0.002	-153.8	753	5.5	2.5	
Cd	111	1	No Gas	0.000	3483.1	79	22.3	1	
Sr	88	1	No Gas	0.077	4.8	5061	2.0	2.5	
Mo	95	1	No Gas	0.008	73.3	290	15.8	2.5	
Sn	118	1	No Gas	0.131	11.7	5668	3.0	5	
Sb	121	1	No Gas	0.033	12.2	1467	4.4	2.5	
Ba	137	1	No Gas	0.168	2.7	1860	2.8	2.5	
Tl	205	1	No Gas	0.002	118.0	1697	8.3	1	
Tl	203	1	No Gas	-0.001	-240.9	773	6.1	1	
Pb	208	1	No Gas	0.010	46.7	3774	8.6	2.5	
U	238	1	No Gas	0.003	62.9	2167	7.1	2.5	
Ca	43	2	He	22.581	55.7	90	29.4	100	
Sb	121	2	He	0.036	54.1	627	26.3	2.5	
Ti	47	2	He	0.080	122.2	27	78.1	2.5	
Se	82	1	No Gas	-0.009	-4010.0	297	29.1	1	
Zr	90	1	No Gas	0.086	6.7	3274	3.9	2.5	
Zr	90	2	He	0.082	4.6	2107	1.5	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	827068	0.41	925047	89.41	70	120	
Ge	72	2	He	757847	0.30	783220	96.76	70	120	
Ge	72	1	No Gas	2693886	0.80	2767984	97.32	70	120	
In	115	1	No Gas	3531725	1.18	3581092	98.62	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3760713	0.35	3720386	101.08	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	023ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:25:08-05:00
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	0.552	4.8	50921	0.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.031	11.3	165	6.1	0	ICSA Main CR1 Failed
V	51	2	He	-0.194	-10.6	5679	1.8	0	ICSA Main CR1 Failed
Cr	52	2	He	0.867	4.4	12342	2.4	0	ICSA Main CR1 Failed
Fe	56	2	He	106060.794	1.3	617317031	0.7	0	
Se	78	2	He	0.000	79286.7	125	2.4	0	ICSA Main CR1 Failed
As	75	2	He	0.380	7.6	683	3.5	0	ICSA Main CR1 Failed
Ca	44	2	He	100050.769	1.8	3497181	1.5	0	
Na	23	2	He	107380.331	1.7	90163135	0.8	0	
Mg	24	2	He	106097.250	2.0	56320392	1.2	0	
K	39	2	He	105886.743	1.8	70991019	1.1	0	
Mn	55	2	He	1.915	3.5	9860	2.5	0	ICSA Main CR1 Failed
Co	59	2	He	1.061	1.1	10314	2.1	0	ICSA Main CR1 Failed
Ni	60	2	He	1.184	0.3	3070	1.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.824	3.7	5868	2.4	0	ICSA Main CR1 Failed
Zn	66	2	He	3.084	4.2	4651	3.9	0	ICSA Main CR1 Failed
Al	27	2	He	106755.778	2.3	37428586	1.5	0	
B	11	1	No Gas	2.795	13.1	13103	3.5	0	
Al	27	1	No Gas	100386.089	1.5	1365788300	0.9	0	
Si	28	1	No Gas	29.918	6.5	443184	3.4	0	
Ag	107	1	No Gas	0.021	23.7	1120	8.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.702	5.1	2705	4.6	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.971	0.5	37074	1.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2116.497	1.8	15326118	1.1	0	
Sn	118	1	No Gas	0.293	7.0	7232	2.9	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.116	13.3	2857	8.9	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.555	7.4	4281	5.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.004	110.1	1600	10.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.001	253.8	747	8.9	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.933	3.3	60684	3.0	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.011	14.3	2524	4.3	0	ICSA Main CR1 Failed
Ca	43	2	He	103803.421	2.9	212502	2.4	0	
Sb	121	2	He	0.113	13.8	1230	10.0	0	ICSA Main CR1 Failed
Ti	47	2	He	2122.867	1.2	431993	0.7	0	
Se	82	1	No Gas	0.255	30.8	340	5.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	778955	0.92	925047	84.21	70	120	
Ge	72	2	He	729151	0.98	783220	93.10	70	120	
Ge	72	1	No Gas	2547556	0.62	2767984	92.04	70	120	
In	115	1	No Gas	3243479	0.79	3581092	90.57	70	120	
Bi	209	1	No Gas	3416898	0.45	3720386	91.84	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	024ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T11:27:36-05:00
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	101.640	2.129	1182118	1.56	100	101.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	92.485	2.369	281166	1.94	100	92.5	80	120	
V	51	2	He	107.067	2.926	592774	1.21	100	107.1	80	120	
Cr	52	2	He	104.174	3.259	655590	1.68	100	104.2	80	120	
Fe	56	2	He	113273.001	2.697	676703897	1.01	100	113273.0	80	120	ICSB Main CR1 Failed
Se	78	2	He	109.818	4.820	10507	3.89	100	109.8	80	120	
As	75	2	He	109.213	3.201	115081	1.59	100	109.2	80	120	
Ca	44	2	He	108170.327	3.555	3880374	1.87	100	108170.3	80	120	
Na	23	2	He	114958.092	2.917	99071625	1.36	100	114958.1	80	120	ICSB Main CR1 Failed
Mg	24	2	He	113645.819	3.368	61918774	1.73	100	113645.8	80	120	ICSB Main CR1 Failed
K	39	2	He	114324.473	3.104	78663922	1.43	100	114324.5	80	120	
Mn	55	2	He	106.040	2.653	520220	0.98	100	106.0	80	120	
Co	59	2	He	102.164	2.968	989771	1.51	100	102.2	80	120	
Ni	60	2	He	101.829	2.303	249738	0.62	100	101.8	80	120	
Cu	63	2	He	100.448	2.374	664762	0.72	100	100.4	80	120	
Zn	66	2	He	106.430	2.888	135672	1.31	100	106.4	80	120	
Al	27	2	He	104650.542	3.636	37657397	1.96	100	104650.5	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	503.407	1.604	839223	1.25	100	503.4	80	120	
Al	27	1	No Gas	97821.425	2.927	1364617260	1.90	100	97821.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	549.461	2.059	4094056	0.86	100	549.5	80	120	
Ag	107	1	No Gas	103.691	0.915	2010967	1.53	100	103.7	80	120	
Cd	111	1	No Gas	105.289	0.846	405332	1.22	100	105.3	80	120	
Sr	88	1	No Gas	110.468	0.170	4110108	0.67	100	110.5	80	120	
Mo	95	1	No Gas	2191.583	0.775	16280225	1.37	100	2191.6	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	108.438	1.161	1398627	1.74	100	108.4	80	120	
Sb	121	1	No Gas	107.754	2.196	1952320	1.25	100	107.8	80	120	
Ba	137	1	No Gas	106.687	0.733	728428	1.23	100	106.7	80	120	
Tl	205	1	No Gas	93.563	2.294	4105141	2.21	100	93.6	80	120	
Tl	203	1	No Gas	92.741	2.018	1737194	1.94	100	92.7	80	120	
Pb	208	1	No Gas	108.079	1.574	6775820	1.61	100	108.1	80	120	
U	238	1	No Gas	109.245	1.444	7587487	1.31	100	109.2	80	120	
Ca	43	2	He	111613.298	3.463	234511	1.81	100	111613.3	80	120	ICSB Main CR1 Failed
Sb	121	2	He	105.254	2.888	876690	1.22	100	105.3	80	120	
Ti	47	2	He	2195.098	3.729	458430	2.06	100	2195.1	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	100.975	2.610	1390634	1.71	100	101.0	80	120	
Se	82	1	No Gas	109.735	3.773	25815	2.98	100	109.7	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	839297	0.58	925047	90.73	70	120	
Ge	72	2	He	748579	1.71	783220	95.58	70	120	
Ge	72	1	No Gas	2612486	1.08	2767984	94.38	70	120	
In	115	1	No Gas	3326952	0.61	3581092	92.90	70	120	
Bi	209	1	No Gas	3450677	0.43	3720386	92.75	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	165CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:26:19-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	48562	0.00
Be	9	1	No Gas	47	80.63
V	51	2	He	7189	0.03
Cr	52	2	He	8606	0.05
Fe	56	2	He	13917	0.04
Se	78	2	He	107	17.61
As	75	2	He	338	2.84
Ca	44	2	He	540	1.71
Na	23	2	He	86477	0.00
Mg	24	2	He	1970	0.34
K	39	2	He	95327	0.00
Mn	55	2	He	573	3.35
Co	59	2	He	140	0.00
Ni	60	2	He	253	7.36
Cu	63	2	He	667	0.69
Zn	66	2	He	860	0.89
Al	27	2	He	1003	0.77
B	11	1	No Gas	7922	0.05
Al	27	1	No Gas	35475	0.02
Si	28	1	No Gas	184259	0.00
Ag	107	1	No Gas	303	10.27
Sr	88	1	No Gas	2044	0.67
Mo	95	1	No Gas	127	12.97
Sn	118	1	No Gas	7793	1.17
Sb	121	1	No Gas	613	2.51
Ba	137	1	No Gas	633	3.40
Tl	205	1	No Gas	690	2.07
Tl	203	1	No Gas	307	11.47
Pb	208	1	No Gas	2323	0.25
U	238	1	No Gas	1480	0.42
Ca	43	2	He	47	70.14
Sb	121	2	He	270	1.37
Ti	47	2	He	20	661.44
Cu	63	1	No Gas	1357	0.47

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	789601	0.08

Calibration Blank Report

Ge	72	2	He	909952	0.99
Ge	72	1	No Gas	3202767	1.12
In	115	1	No Gas	4425209	0.76
Bi	209	1	No Gas	4898592	0.63

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	166CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:28:52-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	5810	0.06
V	51	2	He	21412	0.01
Cr	52	2	He	24969	0.01
Fe	56	2	He	1513402	0.00
Se	78	2	He	337	2.56
As	75	2	He	2805	0.05
Ca	44	2	He	9313	0.06
Na	23	2	He	310252	0.00
Mg	24	2	He	139572	0.00
K	39	2	He	260001	0.00
Mn	55	2	He	12683	0.01
Co	59	2	He	25370	0.01
Ni	60	2	He	6682	0.06
Cu	63	2	He	17531	0.02
Zn	66	2	He	4297	0.07
Al	27	2	He	1867	0.88
B	11	1	No Gas	25821	0.01
Al	27	1	No Gas	66346	0.00
Si	28	1	No Gas	259909	0.00
Ag	107	1	No Gas	53889	0.00
Cd	111	1	No Gas	10099	0.06
Sr	88	1	No Gas	100807	0.00
Mo	95	1	No Gas	18697	0.02
Sn	118	1	No Gas	37580	0.00
Sb	121	1	No Gas	46425	0.00
Ba	137	1	No Gas	18346	0.02
Tl	205	1	No Gas	130025	0.00
Tl	203	1	No Gas	55087	0.00
Pb	208	1	No Gas	182556	0.00
U	238	1	No Gas	189251	0.00
Ca	43	2	He	563	1.01
Sb	121	2	He	19415	0.01
Cu	63	1	No Gas	35058	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	775225	0.69	789601	98.18	70	120	
Ge	72	2	He	893988	0.82	909952	98.25	70	120	
Ge	72	1	No Gas	3158044	0.77	3202767	98.60	70	120	

Calibration Standard Report

In	115	1	No Gas	4373189	0.16	4425209	98.82	70	120	
Bi	209	1	No Gas	4865545	0.59	4898592	99.33	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	167CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:31:25-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	14579	0.01
V	51	2	He	42232	0.00
Cr	52	2	He	49204	0.00
Fe	56	2	He	3808641	0.00
Se	78	2	He	651	1.63
As	75	2	He	6533	0.04
Ca	44	2	He	22345	0.01
Na	23	2	He	651518	0.00
Mg	24	2	He	348426	0.00
K	39	2	He	508755	0.00
Mn	55	2	He	31393	0.01
Co	59	2	He	62676	0.00
Ni	60	2	He	16907	0.01
Cu	63	2	He	44994	0.01
Zn	66	2	He	8873	0.08
Al	27	2	He	2964	0.15
B	11	1	No Gas	52174	0.00
Al	27	1	No Gas	110225	0.00
Si	28	1	No Gas	381348	0.00
Ag	107	1	No Gas	131579	0.00
Cd	111	1	No Gas	25709	0.01
Sr	88	1	No Gas	246714	0.00
Mo	95	1	No Gas	47206	0.00
Sn	118	1	No Gas	87665	0.00
Sb	121	1	No Gas	115325	0.00
Ba	137	1	No Gas	45298	0.00
Tl	205	1	No Gas	321408	0.00
Tl	203	1	No Gas	134948	0.00
Pb	208	1	No Gas	452681	0.00
U	238	1	No Gas	471675	0.00
Ca	43	2	He	1263	0.91
Sb	121	2	He	48830	0.01
Cu	63	1	No Gas	84773	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	773453	0.17	789601	97.95	70	120	
Ge	72	2	He	891524	0.41	909952	97.97	70	120	
Ge	72	1	No Gas	3147283	0.37	3202767	98.27	70	120	

Calibration Standard Report

In	115	1	No Gas	4339244	0.66	4425209	98.06	70	120	
Bi	209	1	No Gas	4821597	0.67	4898592	98.43	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	168CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:33:57-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	28275	0.01
V	51	2	He	77209	0.00
Cr	52	2	He	88965	0.00
Fe	56	2	He	7580832	0.00
Se	78	2	He	1310	0.26
As	75	2	He	12908	0.03
Ca	44	2	He	43963	0.00
Na	23	2	He	1196258	0.00
Mg	24	2	He	685007	0.00
K	39	2	He	917141	0.00
Mn	55	2	He	62190	0.00
Co	59	2	He	124377	0.00
Ni	60	2	He	32452	0.01
Cu	63	2	He	87035	0.00
Zn	66	2	He	17288	0.02
Al	27	2	He	5198	0.06
B	11	1	No Gas	95520	0.00
Al	27	1	No Gas	185894	0.00
Si	28	1	No Gas	574378	0.00
Ag	107	1	No Gas	260214	0.00
Cd	111	1	No Gas	51092	0.00
Sr	88	1	No Gas	483170	0.00
Mo	95	1	No Gas	93392	0.00
Sn	118	1	No Gas	173686	0.00
Sb	121	1	No Gas	230102	0.00
Ba	137	1	No Gas	88836	0.01
Tl	205	1	No Gas	634396	0.00
Tl	203	1	No Gas	266009	0.00
Pb	208	1	No Gas	900364	0.00
U	238	1	No Gas	938877	0.00
Ca	43	2	He	2637	0.37
Sb	121	2	He	96339	0.00
Cu	63	1	No Gas	165388	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	758349	0.71	789601	96.04	70	120	
Ge	72	2	He	886961	0.89	909952	97.47	70	120	
Ge	72	1	No Gas	3105104	0.67	3202767	96.95	70	120	

Calibration Standard Report

In	115	1	No Gas	4303190	0.21	4425209	97.24	70	120	
Bi	209	1	No Gas	4845240	0.33	4898592	98.91	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	169CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:36:29-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	260427	0.00
V	51	2	He	635979	0.00
Cr	52	2	He	725015	0.00
Fe	56	2	He	68980232	0.00
Se	78	2	He	10451	0.04
As	75	2	He	115384	0.00
Ca	44	2	He	392702	0.00
Na	23	2	He	10219544	0.00
Mg	24	2	He	6267946	0.00
K	39	2	He	7619025	0.00
Mn	55	2	He	555571	0.00
Co	59	2	He	1142339	0.00
Ni	60	2	He	290973	0.00
Cu	63	2	He	784299	0.00
Zn	66	2	He	147869	0.00
Al	27	2	He	39416	0.01
B	11	1	No Gas	814385	0.00
Al	27	1	No Gas	1423885	0.00
Si	28	1	No Gas	3648710	0.00
Ag	107	1	No Gas	2369308	0.00
Cd	111	1	No Gas	478228	0.00
Sr	88	1	No Gas	4446349	0.00
Mo	95	1	No Gas	866437	0.00
Sn	118	1	No Gas	1606338	0.00
Sb	121	1	No Gas	2170758	0.00
Ba	137	1	No Gas	826308	0.00
Tl	205	1	No Gas	5834332	0.00
Tl	203	1	No Gas	2475478	0.00
Pb	208	1	No Gas	8420354	0.00
U	238	1	No Gas	9336514	0.00
Ca	43	2	He	22872	0.01
Sb	121	2	He	911669	0.00
Cu	63	1	No Gas	1465716	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	702122	0.93	789601	88.92	70	120	
Ge	72	2	He	844685	1.27	909952	92.83	70	120	
Ge	72	1	No Gas	2923349	0.75	3202767	91.28	70	120	

Calibration Standard Report

In	115	1	No Gas	4085282	0.70	4425209	92.32	70	120	
Bi	209	1	No Gas	4593413	0.59	4898592	93.77	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	170CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:39:02-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	500113	0.00
V	51	2	He	1275843	0.00
Cr	52	2	He	1468567	0.00
Fe	56	2	He	137644121	0.00
Se	78	2	He	20652	0.01
As	75	2	He	230052	0.00
Ca	44	2	He	784428	0.00
Na	23	2	He	20275590	0.00
Mg	24	2	He	12448559	0.00
K	39	2	He	15147611	0.00
Mn	55	2	He	1120604	0.00
Co	59	2	He	2277940	0.00
Ni	60	2	He	576706	0.00
Cu	63	2	He	1589430	0.00
Zn	66	2	He	294330	0.00
Al	27	2	He	79061	0.00
B	11	1	No Gas	1601393	0.00
Al	27	1	No Gas	2738134	0.00
Si	28	1	No Gas	6921647	0.00
Ag	107	1	No Gas	4643519	0.00
Cd	111	1	No Gas	929935	0.00
Sr	88	1	No Gas	8796152	0.00
Mo	95	1	No Gas	1753772	0.00
Sn	118	1	No Gas	3170028	0.00
Sb	121	1	No Gas	4326347	0.00
Ba	137	1	No Gas	1660977	0.00
Tl	205	1	No Gas	11450364	0.00
Tl	203	1	No Gas	4844500	0.00
Pb	208	1	No Gas	16660976	0.00
U	238	1	No Gas	18618821	0.00
Ca	43	2	He	46197	0.01
Sb	121	2	He	1885755	0.00
Cu	63	1	No Gas	2843078	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	682313	0.37	789601	86.41	70	120	
Ge	72	2	He	827580	0.36	909952	90.95	70	120	
Ge	72	1	No Gas	2838106	0.73	3202767	88.61	70	120	

Calibration Standard Report

In	115	1	No Gas	3968529	0.34	4425209	89.68	70	120	
Bi	209	1	No Gas	4438007	0.53	4898592	90.60	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	172_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:49:37-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	100.458	1.832	967519	2.02	100	100.5	90	110	
Be	9	1	No Gas	102.861	0.898	268157	1.18	100	102.9	90	110	
V	51	2	He	101.037	2.052	662716	2.14	100	101.0	90	110	
Cr	52	2	He	100.276	1.806	755843	1.92	100	100.3	90	110	
Fe	56	2	He	9976.103	2.190	70389884	2.36	10000	99.8	90	110	
Se	78	2	He	101.730	0.788	10830	0.81	100	101.7	90	110	
As	75	2	He	101.924	1.281	120323	1.36	100	101.9	90	110	
Ca	44	2	He	10095.782	1.616	406045	1.78	10000	101.0	90	110	
Na	23	2	He	9973.239	1.843	10409333	1.95	10000	99.7	90	110	
Mg	24	2	He	10053.926	1.781	6421804	1.87	10000	100.5	90	110	
K	39	2	He	9993.594	1.987	7800399	2.02	10000	99.9	90	110	
Mn	55	2	He	101.295	2.370	580810	2.53	100	101.3	90	110	
Co	59	2	He	102.238	2.301	1193951	2.44	100	102.2	90	110	
Ni	60	2	He	102.335	1.698	303022	1.85	100	102.3	90	110	
Cu	63	2	He	99.844	0.938	811205	1.03	100	99.8	90	110	
Zn	66	2	He	101.037	1.392	152829	1.56	100	101.0	90	110	
Al	27	2	He	102.565	2.542	41879	2.50	100	102.6	90	110	
B	11	1	No Gas	495.776	1.271	816268	1.46	500	99.2	90	110	
Al	27	1	No Gas	101.918	1.110	1460415	1.77	100	101.9	90	110	
Si	28	1	No Gas	505.080	1.699	3704579	2.30	500	101.0	90	110	
Ag	107	1	No Gas	102.862	2.226	2451331	1.88	100	102.9	90	110	
Cd	111	1	No Gas	102.564	2.787	490196	2.41	100	102.6	90	110	
Sr	88	1	No Gas	102.142	2.585	4602744	2.21	100	102.1	90	110	
Mo	95	1	No Gas	99.992	2.328	894202	1.95	100	100.0	90	110	
Sn	118	1	No Gas	101.539	2.339	1652082	1.95	100	101.5	90	110	
Sb	121	1	No Gas	100.711	1.538	2244448	2.16	100	100.7	90	110	
Ba	137	1	No Gas	99.353	3.098	842778	2.72	100	99.4	90	110	
Tl	205	1	No Gas	104.028	1.869	6145335	2.97	100	104.0	90	110	
Tl	203	1	No Gas	103.988	2.097	2600468	3.19	100	104.0	90	110	
Pb	208	1	No Gas	101.744	1.393	8730678	2.25	100	101.7	90	110	
U	238	1	No Gas	101.997	1.245	9764391	2.46	100	102.0	90	110	
Ca	43	2	He	10106.195	1.196	23891	1.28	10000	101.1	90	110	
Sb	121	2	He	97.584	1.453	936604	1.53	100	97.6	90	110	
Ti	47	2	He	103.085	2.303	24061	2.49	100	103.1	90	110	
Cu	63	1	No Gas	103.251	1.271	1520905	1.95	100	103.3	90	110	
Se	82	1	No Gas	100.530	2.027	27799	2.66	100	100.5	90	110	
Zr	90	1	No Gas	87.014	2.356	2435254	1.98	100	87.0	90	110	ICV Main CR1 Failed
Zr	90	2	He	84.315	1.995	964740	1.94	100	84.3	90	1100	ICV Main CR1 Failed

QC ISTD Table

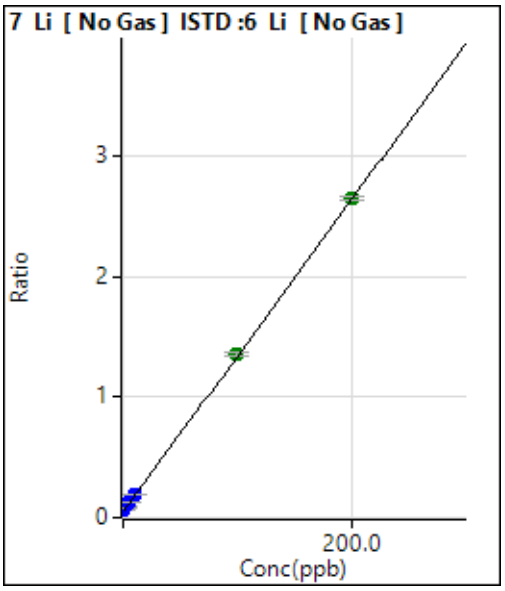
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	709544	0.39	789601	89.86	70	120	
Ge	72	2	He	851377	0.20	909952	93.56	70	120	
Ge	72	1	No Gas	2938798	0.68	3202767	91.76	70	120	
In	115	1	No Gas	4080042	0.38	4425209	92.20	70	120	
Bi	209	1	No Gas	4592425	1.46	4898592	93.75	70	120	

Calibration for 172_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062824A.b\
Analysis File: 062824A.batch.bin
DA Date-Time: 6/28/2024 10:08:19 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	165CALB.d	CAL BLK	6/28/2024 6:26:19 PM
2	166CALS.d	2/10/200	6/28/2024 6:28:52 PM
3	167CALS.d	5/25/500	6/28/2024 6:31:25 PM
4	168CALS.d	10/50/100	6/28/2024 6:33:57 PM
5	169CALS.d	100/500/10K	6/28/2024 6:36:29 PM
6	170CALS.d	200/1000/20K	6/28/2024 6:39:02 PM

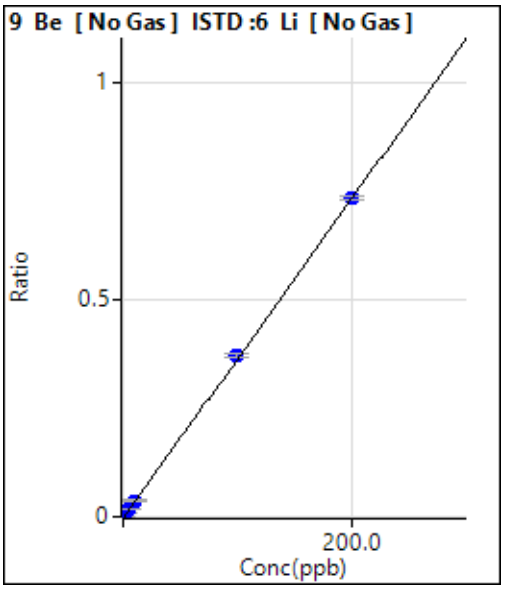
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48562.36	0.0615	P	1.1	
2	☐	2.000	2.046	68240.54	0.0880	P	0.9	2.3
3	☐	5.000	5.201	99702.13	0.1289	P	1.0	4.0
4	☐	10.000	10.292	147790.64	0.1949	P	1.4	2.9
5	☐	100.000	100.357	956336.86	1.3622	A	2.3	0.4
6	☐	200.000	199.802	1808944.30	2.6511	A	1.1	-0.1

y = 0.0130 * x + 0.0615
R = 1.0000
DL = 0.1599 ppb
BEC = 4.745 ppb

Weight: <None>
Min Conc: <None>

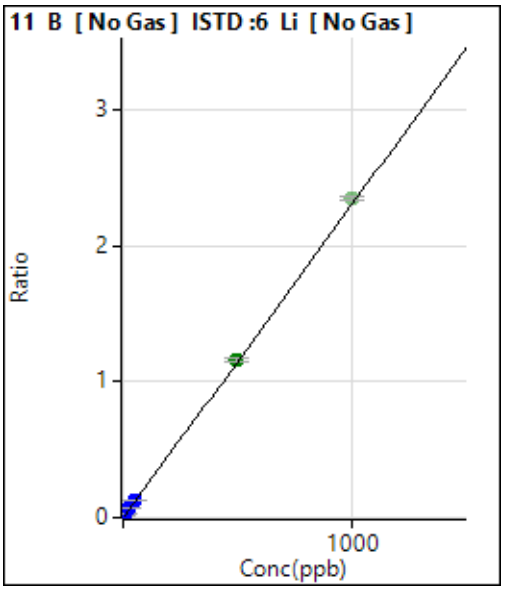


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	37.7	
2	☐	2.000	2.024	5809.56	0.0075	P	4.2	1.2
3	☐	5.000	5.115	14579.18	0.0188	P	1.9	2.3
4	☐	10.000	10.135	28274.79	0.0373	P	3.3	1.3
5	☐	100.000	100.968	260427.17	0.3710	P	3.1	1.0
6	☐	200.000	199.506	500113.42	0.7330	P	0.8	-0.2

y = 0.0037 * x + 5.9113E-005
R = 1.0000
DL = 0.0182 ppb
BEC = 0.01609 ppb

Weight: <None>
Min Conc: <None>

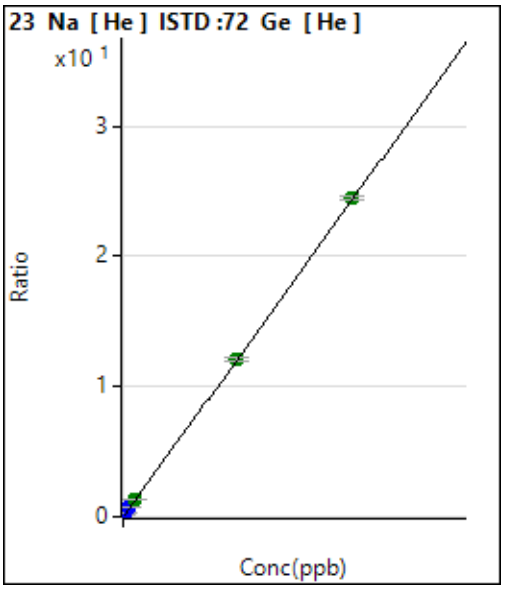
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7922.26	0.0100	P	3.9	
2	☐	10.000	10.121	25820.80	0.0333	P	4.0	1.2
3	☐	25.000	24.965	52173.58	0.0675	P	1.9	-0.1
4	☐	50.000	50.401	95519.95	0.1260	P	1.0	0.8
5	☐	500.000	499.959	814385.20	1.1600	A	2.2	0.0
6	☑	1000.000		1601392.89	2.3470	A	0.6	

y = 0.0023 * x + 0.0100
R = 1.0000
DL = 0.5068 ppb
BEC = 4.362 ppb

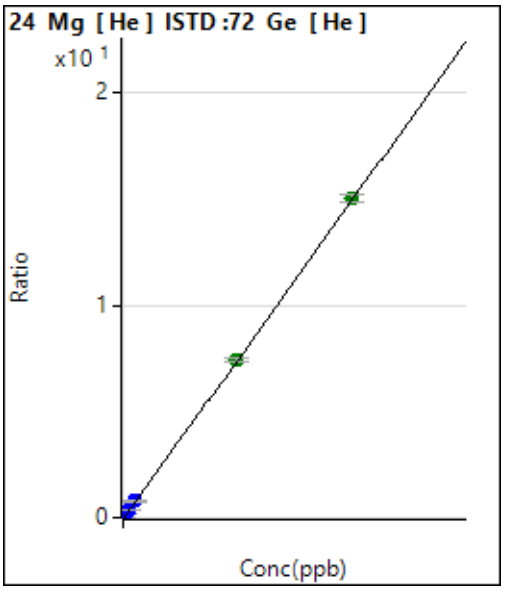
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86476.89	0.0950	P	0.9	
2	☐	200.000	207.191	310252.24	0.3471	P	1.1	3.6
3	☐	500.000	522.648	651517.72	0.7308	P	0.8	4.5
4	☐	1000.000	1030.735	1196257.53	1.3488	A	1.3	3.1
5	☐	10000.00	9869.063	10219544.43	12.0996	A	1.9	-1.3
6	☐	20000.00	20063.29	20275589.70	24.4996	A	1.8	0.3

y = 0.0012 * x + 0.0950
R = 1.0000
DL = 2.078 ppb
BEC = 78.13 ppb

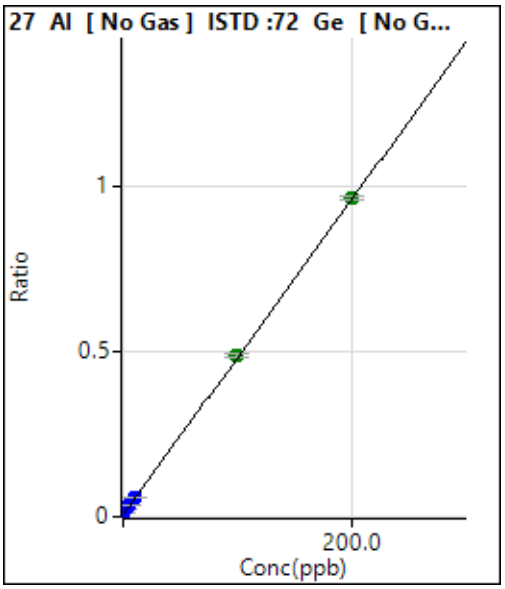
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1970.17	0.0022	P	7.1	
2	☐	200.000	205.278	139572.12	0.1561	P	1.7	2.6
3	☐	500.000	518.172	348425.87	0.3908	P	2.3	3.6
4	☐	1000.000	1026.864	685006.73	0.7723	P	1.2	2.7
5	☐	10000.00	9891.425	6267945.53	7.4209	A	2.2	-1.1
6	☐	20000.00	20052.43	12448558.56	15.0418	A	1.9	0.3

y = 7.5002E-004 * x + 0.0022
R = 1.0000
DL = 0.6173 ppb
BEC = 2.888 ppb

Weight: <None>
Min Conc: <None>

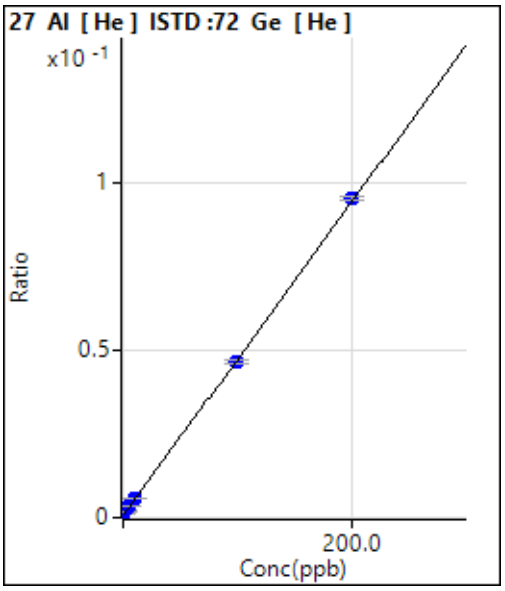


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35474.87	0.0111	P	6.7	
2	☐	2.000	2.083	66346.00	0.0210	P	2.1	4.2
3	☐	5.000	5.023	110225.07	0.0350	P	0.7	0.5
4	☐	10.000	10.235	185893.60	0.0599	P	1.3	2.4
5	☐	100.000	99.862	1423884.88	0.4871	A	2.3	-0.1
6	☐	200.000	200.056	2738133.71	0.9647	A	0.7	0.0

y = 0.0048 * x + 0.0111
R = 1.0000
DL = 0.4677 ppb
BEC = 2.324 ppb

Weight: <None>
Min Conc: <None>

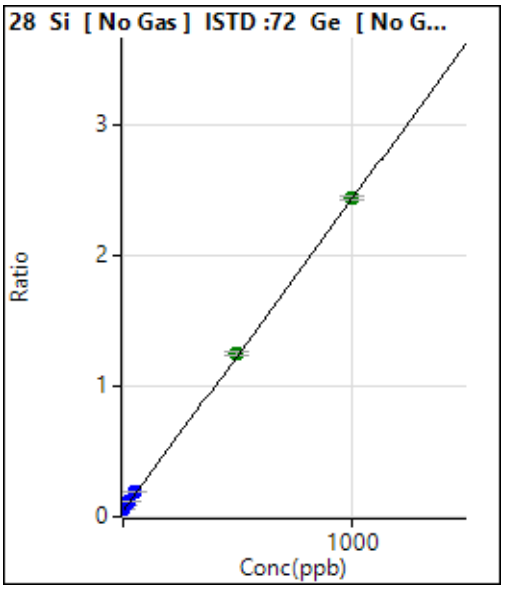
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1003.39	0.0011	P	8.1	
2	☐	2.000	2.099	1866.83	0.0021	P	15.7	4.9
3	☐	5.000	4.738	2963.69	0.0033	P	4.3	-5.2
4	☐	10.000	10.147	5197.72	0.0059	P	3.1	1.5
5	☐	100.000	97.180	39415.58	0.0467	P	3.2	-2.8
6	☐	200.000	201.408	79061.32	0.0955	P	0.9	0.7

y = 4.6885E-004 * x + 0.0011
R = 0.9999
DL = 0.5721 ppb
BEC = 2.352 ppb

Weight: <None>
Min Conc: <None>

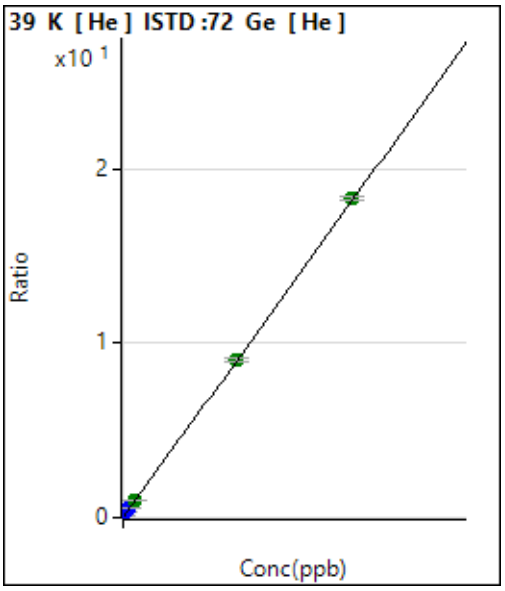


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	184259.15	0.0575	P	1.7	
2	☐	10.000	10.400	259909.01	0.0823	P	1.6	4.0
3	☐	25.000	26.716	381347.95	0.1212	P	0.3	6.9
4	☐	50.000	53.510	574378.35	0.1850	P	0.7	7.0
5	☐	500.000	499.927	3648709.84	1.2482	A	1.9	0.0
6	☐	1000.000	999.814	6921646.57	2.4388	A	0.6	0.0

y = 0.0024 * x + 0.0575
R = 1.0000
DL = 1.249 ppb
BEC = 24.16 ppb

Weight: <None>
Min Conc: <None>

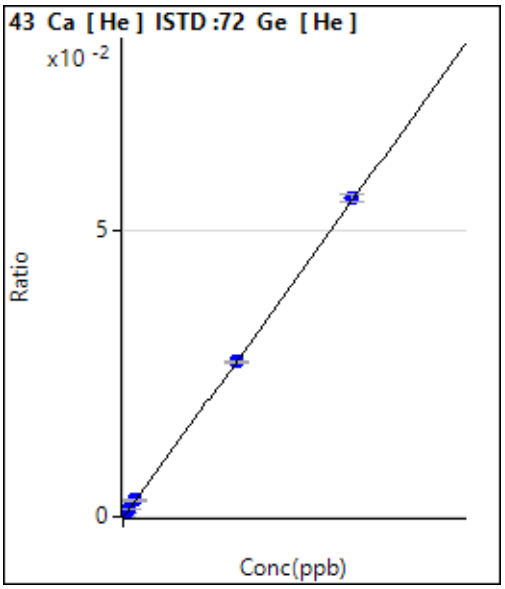
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95326.84	0.1048	P	0.9	
2	☐	200.000	205.310	260000.73	0.2908	P	0.6	2.7
3	☐	500.000	514.051	508755.27	0.5707	P	1.0	2.8
4	☐	1000.000	1025.324	917141.05	1.0340	A	0.9	2.5
5	☐	10000.00	9837.255	7619024.88	9.0204	A	2.3	-1.6
6	☐	20000.00	20079.70	15147611.02	18.3032	A	1.1	0.4

y = 9.0631E-004 * x + 0.1048
R = 1.0000
DL = 3.057 ppb
BEC = 115.6 ppb

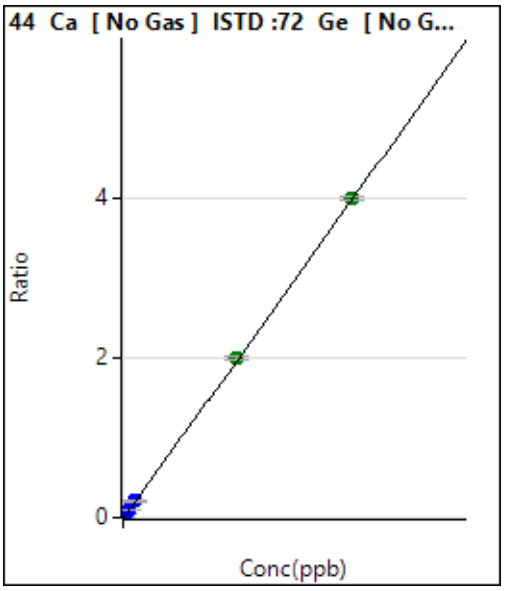
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	32.0	
2	☐	200.000	208.883	563.35	0.0006	P	5.6	4.4
3	☐	500.000	493.005	1263.41	0.0014	P	11.9	-1.4
4	☐	1000.000	1054.272	2636.96	0.0030	P	9.8	5.4
5	☐	10000.00	9749.863	22872.45	0.0271	P	2.0	-2.5
6	☐	20000.00	20122.44	46196.91	0.0558	P	2.3	0.6

y = 2.7716E-006 * x + 5.1206E-005
R = 0.9999
DL = 17.75 ppb
BEC = 18.48 ppb

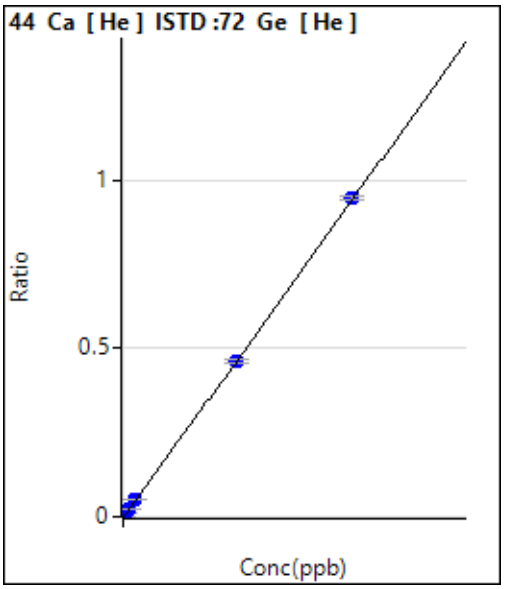
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14494.46	0.0045	P	4.3	
2	☐	200.000	200.337	140270.25	0.0444	P	2.4	0.2
3	☐	500.000	507.777	332481.09	0.1056	P	0.6	1.6
4	☐	1000.000	1006.655	636451.71	0.2050	P	2.2	0.7
5	☐	10000.00	9964.434	5813409.08	1.9888	A	2.3	-0.4
6	☐	20000.00	20017.25	11326121.50	3.9906	A	0.8	0.1

y = 1.9913E-004 * x + 0.0045
R = 1.0000
DL = 2.901 ppb
BEC = 22.73 ppb

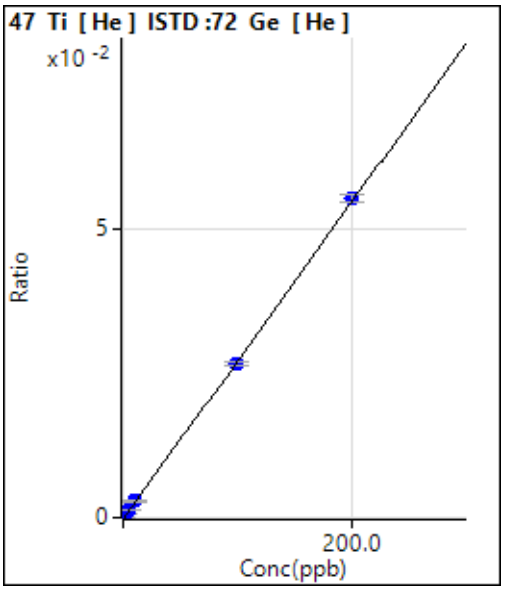
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.02	0.0006	P	8.4	
2	☐	200.000	208.198	9313.30	0.0104	P	4.7	4.1
3	☐	500.000	518.641	22344.87	0.0251	P	1.0	3.7
4	☐	1000.000	1037.980	43962.90	0.0496	P	1.1	3.8
5	☐	10000.00	9841.519	392702.03	0.4649	P	2.5	-1.6
6	☐	20000.00	20076.79	784428.27	0.9478	P	1.6	0.4

y = 4.7181E-005 * x + 5.9318E-004
R = 1.0000
DL = 3.165 ppb
BEC = 12.57 ppb

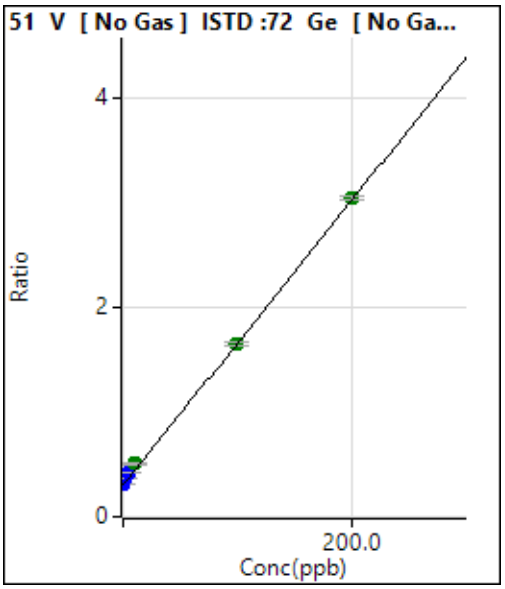
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	131.8	
2	☐	2.000	2.028	516.69	0.0006	P	22.3	1.4
3	☐	5.000	5.244	1300.08	0.0015	P	3.2	4.9
4	☐	10.000	10.510	2573.61	0.0029	P	5.5	5.1
5	☐	100.000	97.093	22481.76	0.0266	P	1.9	-2.9
6	☐	200.000	201.422	45681.99	0.0552	P	2.2	0.7

y = 2.7394E-004 * x + 2.1792E-005
R = 0.9998
DL = 0.3144 ppb
BEC = 0.07955 ppb

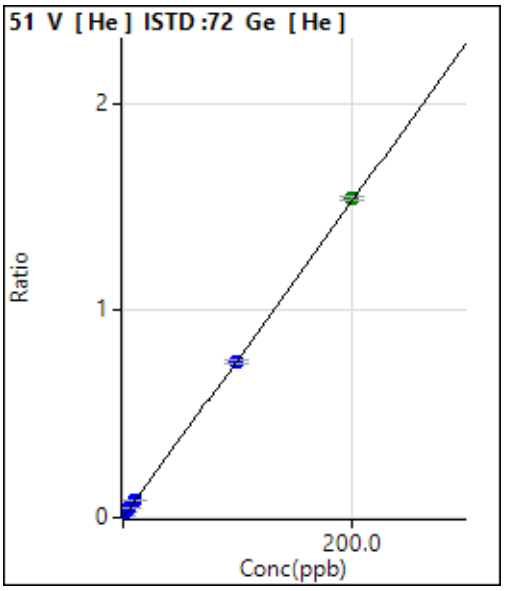
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1018079.73	0.3179	P	1.4	
2	☐	2.000	3.778	1166138.53	0.3693	P	2.1	88.9
3	☐	5.000	7.773	1333491.52	0.4237	P	0.4	55.5
4	☐	10.000	13.855	1572670.43	0.5065	A	0.7	38.5
5	☐	100.000	98.242	4838831.74	1.6554	A	2.6	-1.8
6	☐	200.000	200.599	8653737.82	3.0489	A	1.3	0.3

y = 0.0136 * x + 0.3179
R = 0.9998
DL = 0.9588 ppb
BEC = 23.35 ppb

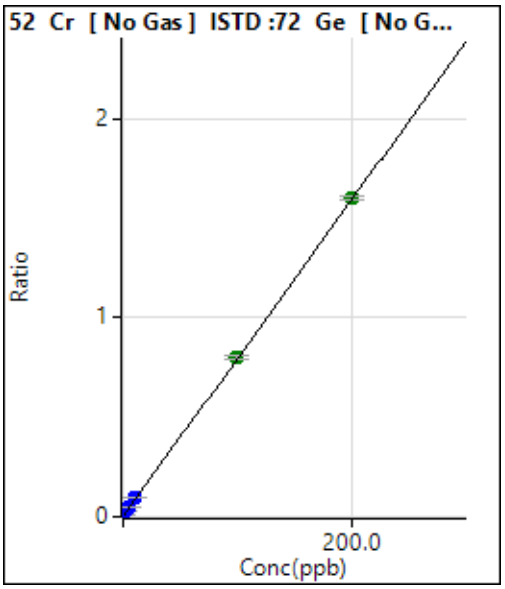
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7188.57	0.0079	P	3.0	
2	☐	2.000	2.105	21412.09	0.0240	P	1.9	5.2
3	☐	5.000	5.176	42231.83	0.0474	P	1.2	3.5
4	☐	10.000	10.380	77209.09	0.0871	P	1.9	3.8
5	☐	100.000	97.703	635979.16	0.7530	P	1.6	-2.3
6	☐	200.000	201.124	1275843.00	1.5416	A	1.3	0.6

y = 0.0076 * x + 0.0079
R = 0.9999
DL = 0.09368 ppb
BEC = 1.036 ppb

Weight: <None>
Min Conc: <None>

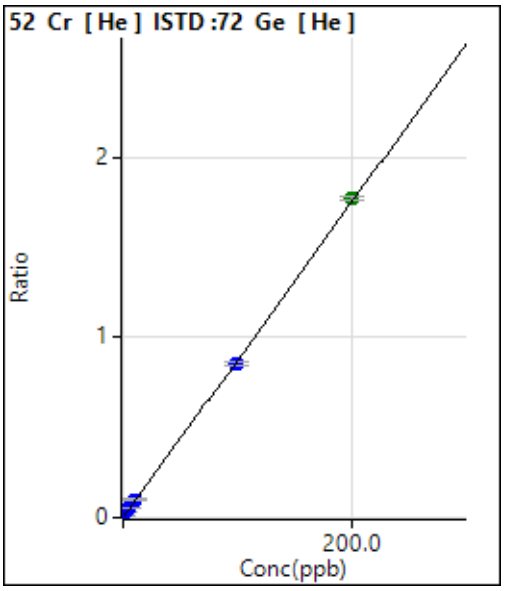


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33200.11	0.0104	P	2.7	
2	☐	2.000	2.106	85613.60	0.0271	P	1.9	5.3
3	☐	5.000	5.218	163205.14	0.0519	P	0.8	4.4
4	☐	10.000	10.411	289233.68	0.0931	P	0.8	4.1
5	☐	100.000	99.596	2345265.69	0.8023	A	2.3	-0.4
6	☐	200.000	200.175	4547211.81	1.6021	A	1.1	0.1

y = 0.0080 * x + 0.0104
R = 1.0000
DL = 0.107 ppb
BEC = 1.303 ppb

Weight: <None>
Min Conc: <None>

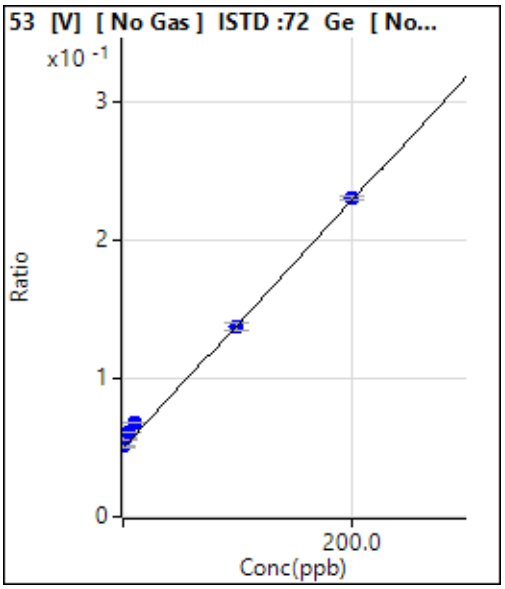
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8606.19	0.0095	P	5.5	
2	☐	2.000	2.108	24969.48	0.0279	P	0.8	5.4
3	☐	5.000	5.221	49204.36	0.0552	P	1.2	4.4
4	☐	10.000	10.373	88964.69	0.1003	P	2.6	3.7
5	☐	100.000	96.923	725015.46	0.8584	P	2.3	-3.1
6	☐	200.000	201.513	1468567.27	1.7745	A	1.2	0.8

y = 0.0088 * x + 0.0095
R = 0.9998
DL = 0.179 ppb
BEC = 1.08 ppb

Weight: <None>
Min Conc: <None>

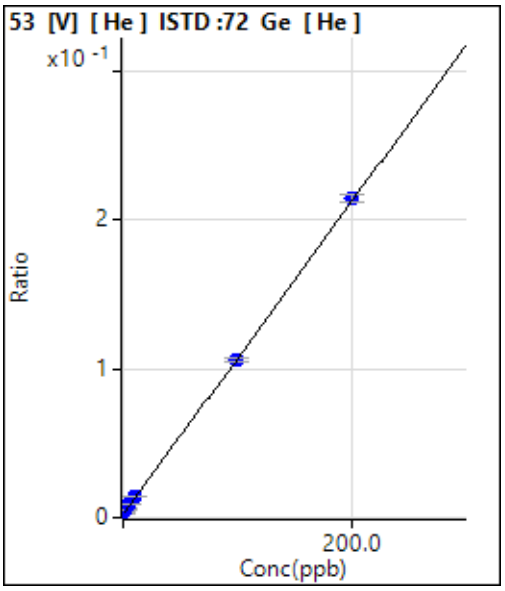


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163672.05	0.0511	P	1.4	
2	☐	2.000	6.431	179535.20	0.0569	P	2.4	221.6
3	☐	5.000	11.260	192547.54	0.0612	P	0.9	125.2
4	☐	10.000	18.837	211016.24	0.0680	P	1.3	88.4
5	☐	100.000	96.639	402172.55	0.1376	P	3.5	-3.4
6	☐	200.000	201.038	655717.18	0.2310	P	1.3	0.5

y = 8.9498E-004 * x + 0.0511
R = 0.9988
DL = 2.474 ppb
BEC = 57.1 ppb

Weight: <None>
Min Conc: <None>

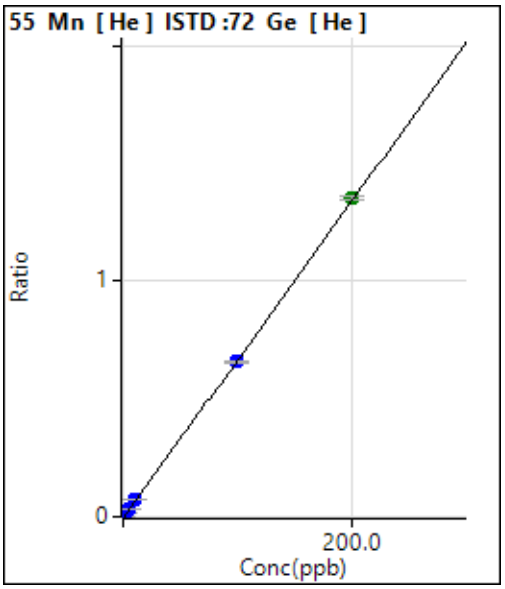
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2957.05	0.0032	P	3.6	
2	☐	2.000	2.381	5137.70	0.0057	P	3.5	19.1
3	☐	5.000	5.644	8175.86	0.0092	P	2.1	12.9
4	☐	10.000	10.433	12589.26	0.0142	P	2.2	4.3
5	☐	100.000	97.703	89316.86	0.1057	P	2.0	-2.3
6	☐	200.000	201.107	177284.23	0.2142	P	2.1	0.6

y = 0.0010 * x + 0.0032
R = 0.9999
DL = 0.3304 ppb
BEC = 3.098 ppb

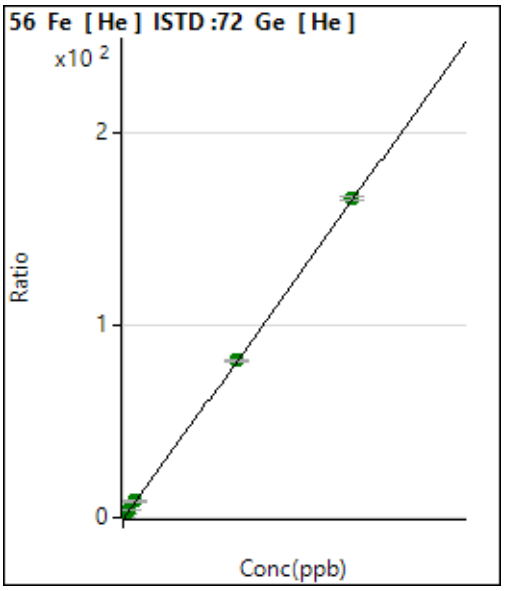
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573.36	0.0006	P	19.3	
2	☐	2.000	2.015	12682.70	0.0142	P	2.3	0.8
3	☐	5.000	5.140	31392.63	0.0352	P	3.3	2.8
4	☐	10.000	10.327	62190.07	0.0701	P	0.7	3.3
5	☐	100.000	97.662	555570.75	0.6577	P	1.2	-2.3
6	☐	200.000	201.149	1120604.20	1.3540	A	1.2	0.6

y = 0.0067 * x + 6.3008E-004
R = 0.9999
DL = 0.05416 ppb
BEC = 0.09364 ppb

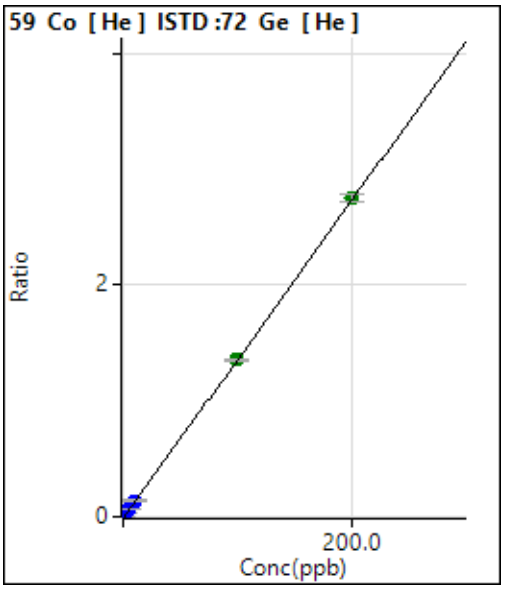
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13917.24	0.0153	P	6.6	
2	☐	200.000	202.456	1513401.96	1.6928	A	1.4	1.2
3	☐	500.000	513.734	3808640.57	4.2720	A	2.1	2.7
4	☐	1000.000	1029.717	7580831.97	8.5474	A	1.7	3.0
5	☐	10000.00	9854.683	68980232.30	81.6696	A	1.8	-1.5
6	☐	20000.00	20070.80	137644121.2	166.318	A	1.1	0.4

y = 0.0083 * x + 0.0153
R = 1.0000
DL = 0.3674 ppb
BEC = 1.846 ppb

Weight: <None>
Min Conc: <None>

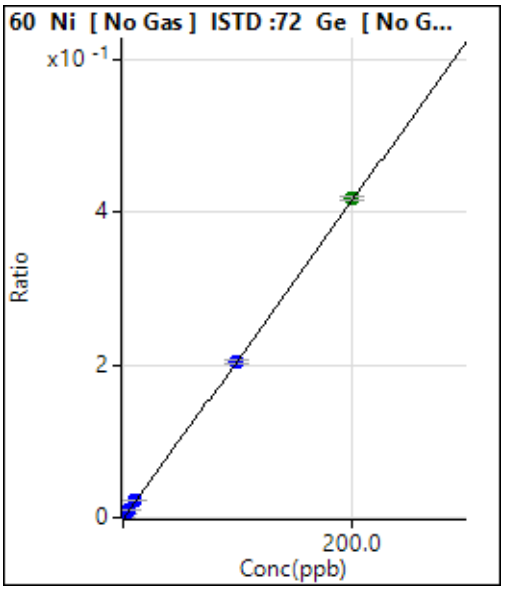


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0002	P	1.0	
2	☐	2.000	2.058	25370.40	0.0284	P	2.7	2.9
3	☐	5.000	5.115	62675.71	0.0703	P	2.6	2.3
4	☐	10.000	10.214	124376.65	0.1402	P	1.2	2.1
5	☐	100.000	98.604	1142339.23	1.3525	A	1.9	-1.4
6	☐	200.000	200.684	2277939.65	2.7525	A	1.8	0.3

y = 0.0137 * x + 1.5386E-004
R = 1.0000
DL = 0.000332 ppb
BEC = 0.01122 ppb

Weight: <None>
Min Conc: <None>

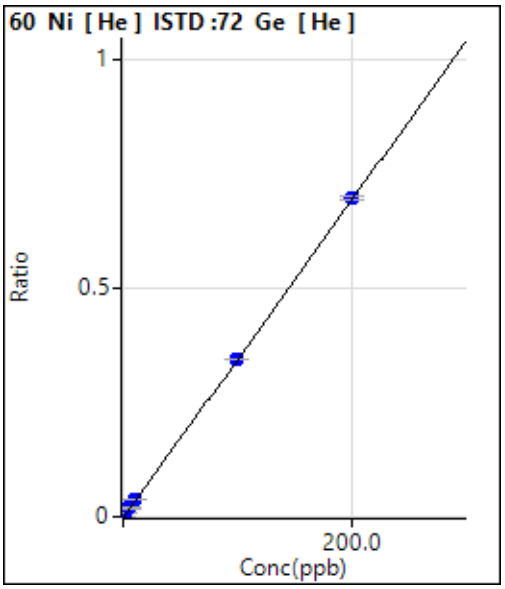
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0002	P	18.9	
2	☐	2.000	2.082	14371.02	0.0046	P	2.0	4.1
3	☐	5.000	5.200	34720.64	0.0110	P	1.4	4.0
4	☐	10.000	10.342	67438.31	0.0217	P	1.3	3.4
5	☐	100.000	98.240	597502.93	0.2044	P	2.5	-1.8
6	☐	200.000	200.857	1185512.66	0.4177	A	1.5	0.4

y = 0.0021 * x + 2.2409E-004
R = 0.9999
DL = 0.06123 ppb
BEC = 0.1078 ppb

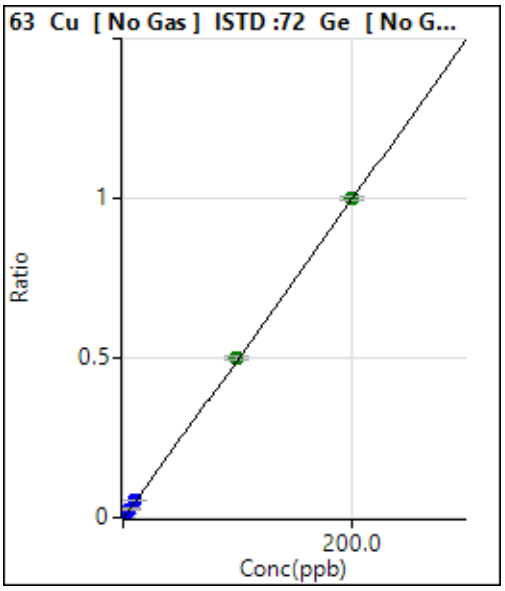
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0003	P	18.5	
2	☐	2.000	2.070	6681.75	0.0075	P	3.3	3.5
3	☐	5.000	5.377	16907.25	0.0190	P	2.5	7.5
4	☐	10.000	10.447	32451.88	0.0366	P	1.2	4.5
5	☐	100.000	99.049	290973.23	0.3445	P	0.9	-1.0
6	☐	200.000	200.443	576705.58	0.6969	P	1.5	0.2

y = 0.0035 * x + 2.7833E-004
R = 1.0000
DL = 0.04443 ppb
BEC = 0.08009 ppb

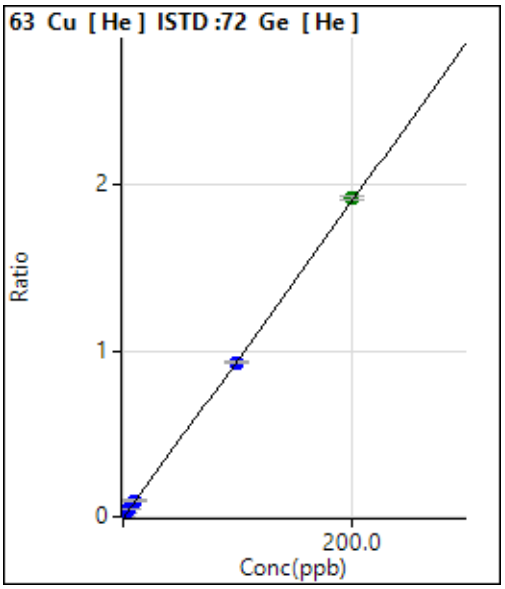
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0004	P	5.2	
2	☐	2.000	2.132	35058.40	0.0111	P	1.4	6.6
3	☐	5.000	5.294	84773.26	0.0269	P	1.8	5.9
4	☐	10.000	10.551	165387.54	0.0533	P	1.5	5.5
5	☐	100.000	100.041	1465716.18	0.5014	A	2.4	0.0
6	☐	200.000	199.943	2843077.67	1.0017	A	0.7	0.0

y = 0.0050 * x + 4.2345E-004
R = 1.0000
DL = 0.01324 ppb
BEC = 0.08456 ppb

Weight: <None>
Min Conc: <None>

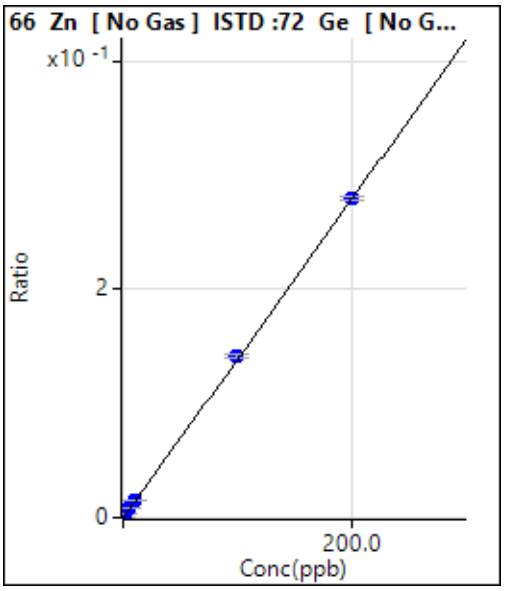


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	666.70	0.0007	P	3.7	
2	☐	2.000	1.979	17531.45	0.0196	P	2.9	-1.0
3	☐	5.000	5.215	44993.69	0.0505	P	2.5	4.3
4	☐	10.000	10.215	87034.76	0.0981	P	1.4	2.1
5	☐	100.000	97.300	784298.66	0.9285	P	1.8	-2.7
6	☐	200.000	201.334	1589430.23	1.9206	A	1.6	0.7

y = 0.0095 * x + 7.3251E-004
R = 0.9999
DL = 0.008422 ppb
BEC = 0.07682 ppb

Weight: <None>
Min Conc: <None>

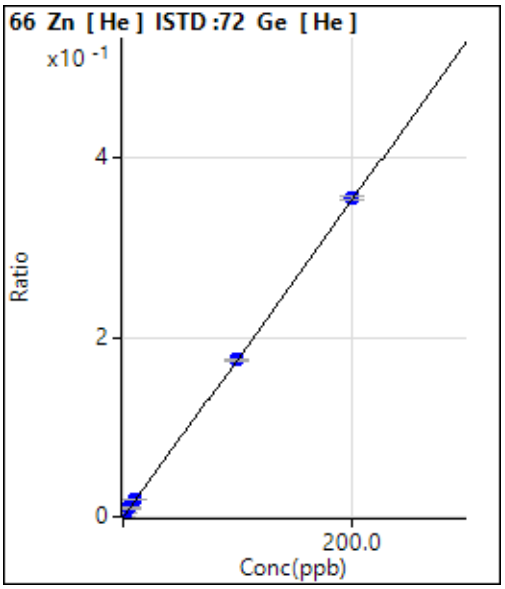
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2570.30	0.0008	P	8.7	
2	☐	2.000	2.044	11548.38	0.0037	P	3.8	2.2
3	☐	5.000	5.100	24939.64	0.0079	P	2.7	2.0
4	☐	10.000	10.247	46930.36	0.0151	P	1.7	2.5
5	☐	100.000	100.603	413049.12	0.1413	P	2.2	0.6
6	☐	200.000	199.683	793766.68	0.2797	P	0.7	-0.2

y = 0.0014 * x + 8.0210E-004
R = 1.0000
DL = 0.1494 ppb
BEC = 0.5743 ppb

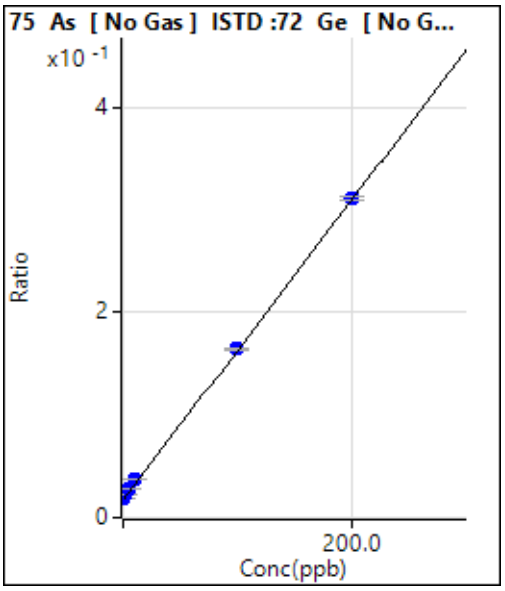
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0009	P	6.9	
2	☐	2.000	2.186	4297.42	0.0048	P	3.8	9.3
3	☐	5.000	5.096	8873.06	0.0100	P	7.0	1.9
4	☐	10.000	10.494	17287.87	0.0195	P	3.0	4.9
5	☐	100.000	98.530	147869.38	0.1751	P	1.0	-1.5
6	☐	200.000	200.706	294330.44	0.3556	P	0.7	0.4

y = 0.0018 * x + 9.4483E-004
R = 1.0000
DL = 0.1099 ppb
BEC = 0.5346 ppb

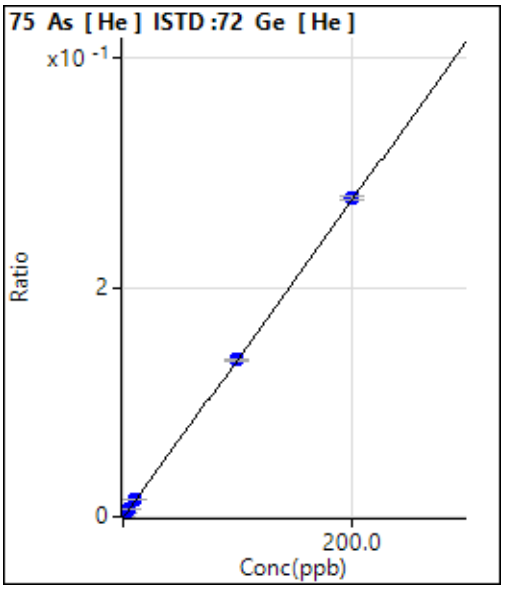
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60708.39	0.0190	P	2.6	
2	☐	2.000	2.598	71828.87	0.0227	P	0.6	29.9
3	☐	5.000	6.410	89100.17	0.0283	P	2.8	28.2
4	☐	10.000	12.372	114911.74	0.0370	P	1.6	23.7
5	☐	100.000	99.405	479468.57	0.1640	P	1.3	-0.6
6	☐	200.000	200.138	882747.18	0.3110	P	0.6	0.1

y = 0.0015 * x + 0.0190
R = 0.9999
DL = 1.024 ppb
BEC = 12.99 ppb

Weight: <None>
Min Conc: <None>

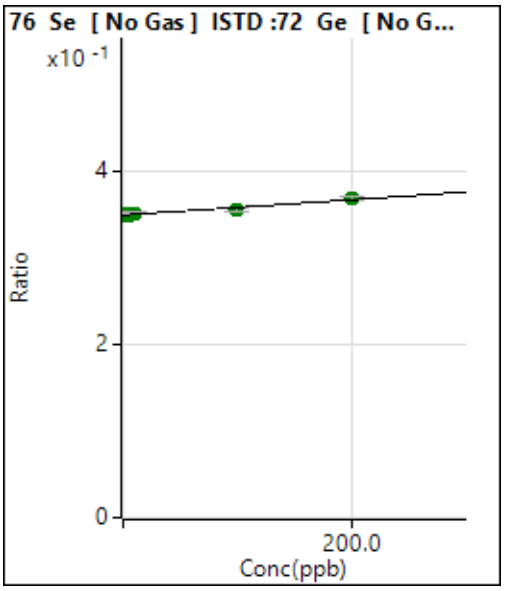


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	337.79	0.0004	P	8.6	
2	☐	2.000	2.000	2804.75	0.0031	P	1.0	0.0
3	☐	5.000	5.030	6532.70	0.0073	P	2.3	0.6
4	☐	10.000	10.255	12908.38	0.0146	P	3.4	2.6
5	☐	100.000	98.509	115384.20	0.1366	P	1.1	-1.5
6	☐	200.000	200.732	230052.21	0.2780	P	1.8	0.4

y = 0.0014 * x + 3.7101E-004
R = 1.0000
DL = 0.06928 ppb
BEC = 0.2683 ppb

Weight: <None>
Min Conc: <None>

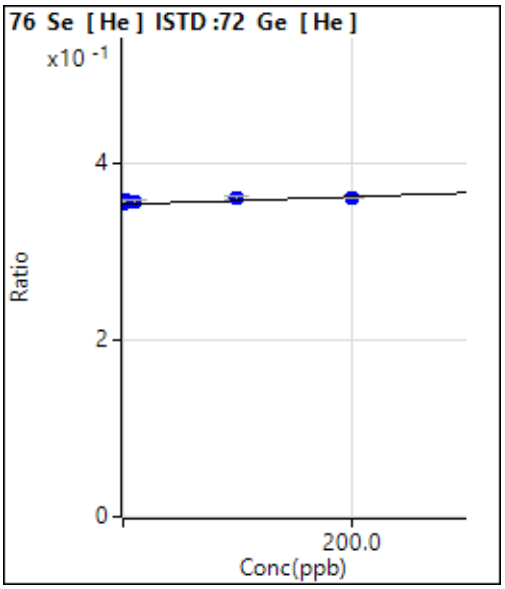
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1118509.59	0.3493	A	1.4	
2	☐	2.000	12.133	1106346.75	0.3503	A	0.8	506.6
3	☐	5.000	0.824	1099450.53	0.3493	A	0.7	-83.5
4	☐	10.000	24.917	1091361.00	0.3515	A	0.3	149.2
5	☐	100.000	64.453	1037787.59	0.3550	A	0.8	-35.5
6	☐	200.000	217.030	1046044.54	0.3686	A	1.1	8.5

y = 8.9069E-005 * x + 0.3493
R = 0.9726
DL = 167.3 ppb
BEC = 3921 ppb

Weight: <None>
Min Conc: <None>

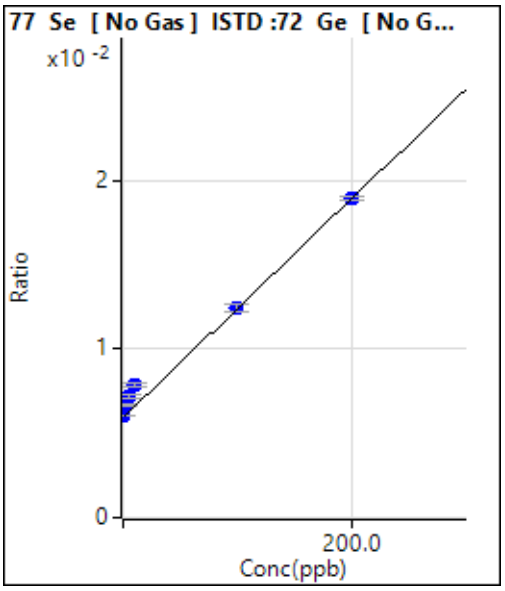


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	322418.73	0.3543	P	0.5	
2	☐	2.000	139.317	322219.10	0.3604	P	0.9	6865.9
3	☐	5.000	43.896	317604.81	0.3563	P	0.9	777.9
4	☐	10.000	68.077	316915.15	0.3573	P	0.9	580.8
5	☐	100.000	166.546	305469.74	0.3616	P	0.7	66.5
6	☐	200.000	161.478	299090.93	0.3614	P	0.2	-19.3

y = 4.3755E-005 * x + 0.3543
R = 0.6919
DL = 127.2 ppb
BEC = 8098 ppb

Weight: <None>
Min Conc: <None>

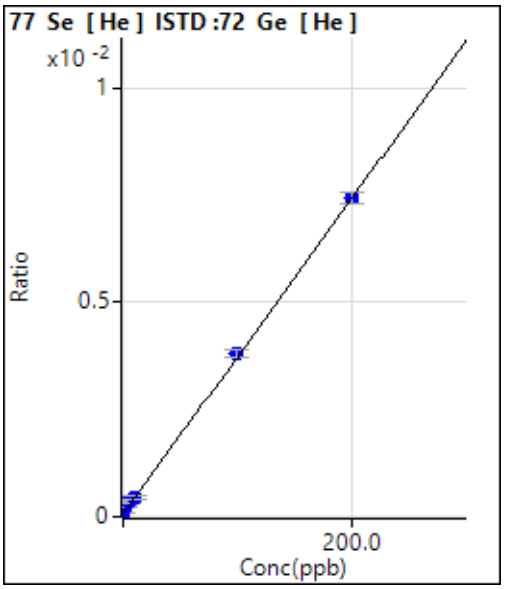
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19317.30	0.0060	P	1.1	
2	☐	2.000	10.210	21140.06	0.0067	P	2.6	410.5
3	☐	5.000	17.731	22602.34	0.0072	P	1.9	254.6
4	☐	10.000	28.389	24442.31	0.0079	P	4.1	183.9
5	☐	100.000	99.362	36472.38	0.0125	P	3.9	-0.6
6	☐	200.000	198.999	53752.78	0.0189	P	0.7	-0.5

y = 6.4861E-005 * x + 0.0060
R = 0.9964
DL = 3.01 ppb
BEC = 92.99 ppb

Weight: <None>
Min Conc: <None>

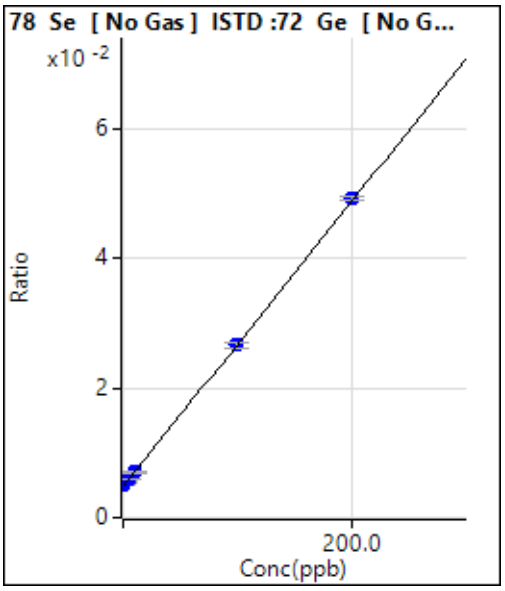


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	24.7	
2	☐	2.000	3.797	210.00	0.0002	P	20.8	89.9
3	☐	5.000	6.663	303.34	0.0003	P	5.1	33.3
4	☐	10.000	9.176	383.35	0.0004	P	18.2	-8.2
5	☐	100.000	100.943	3213.77	0.0038	P	4.5	0.9
6	☐	200.000	199.510	6148.15	0.0074	P	3.1	-0.2

y = 3.6757E-005 * x + 9.5352E-005
R = 0.9999
DL = 1.92 ppb
BEC = 2.594 ppb

Weight: <None>
Min Conc: <None>

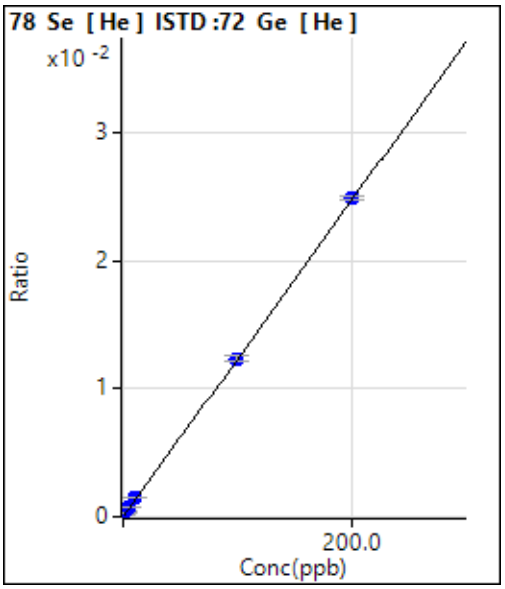
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16203.21	0.0051	P	4.0	
2	☐	2.000	1.943	17327.91	0.0055	P	1.1	-2.8
3	☐	5.000	4.075	18743.22	0.0060	P	2.7	-18.5
4	☐	10.000	9.213	21994.62	0.0071	P	3.5	-7.9
5	☐	100.000	97.880	77606.98	0.0266	P	3.2	-2.1
6	☐	200.000	201.123	139684.29	0.0492	P	1.7	0.6

y = 2.1956E-004 * x + 0.0051
R = 0.9999
DL = 2.789 ppb
BEC = 23.05 ppb

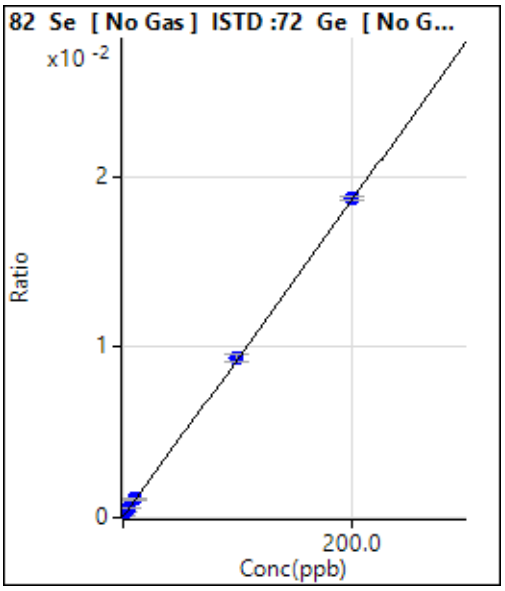
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	19.6	
2	☐	2.000	2.100	337.34	0.0004	P	9.3	5.0
3	☐	5.000	4.946	650.68	0.0007	P	11.0	-1.1
4	☐	10.000	10.974	1310.07	0.0015	P	2.5	9.7
5	☐	100.000	98.929	10450.69	0.0124	P	3.7	-1.1
6	☐	200.000	200.487	20652.28	0.0250	P	1.6	0.2

y = 1.2388E-004 * x + 1.1736E-004
R = 1.0000
DL = 0.5562 ppb
BEC = 0.9473 ppb

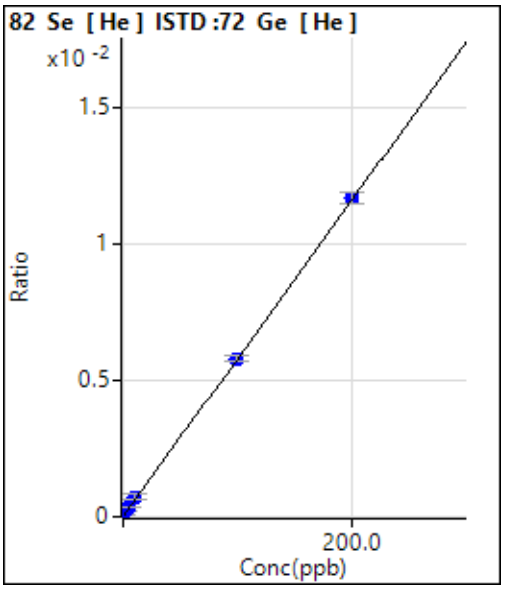
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	23.2	
2	☐	2.000	2.166	1046.73	0.0003	P	9.8	8.3
3	☐	5.000	4.748	1796.82	0.0006	P	4.9	-5.0
4	☐	10.000	10.192	3340.47	0.0011	P	4.7	1.9
5	☐	100.000	99.356	27327.86	0.0093	P	5.2	-0.6
6	☐	200.000	200.317	53124.22	0.0187	P	0.7	0.2

y = 9.2789E-005 * x + 1.3032E-004
R = 1.0000
DL = 0.979 ppb
BEC = 1.405 ppb

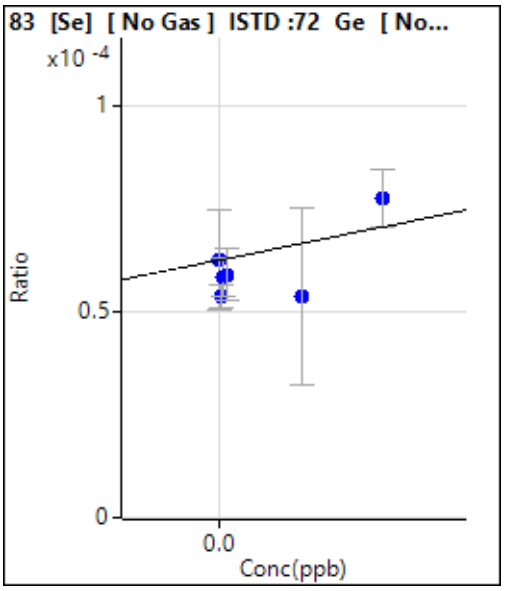
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	34.3	
2	☐	2.000	2.080	173.34	0.0002	P	16.9	4.0
3	☐	5.000	4.544	300.01	0.0003	P	8.4	-9.1
4	☐	10.000	11.047	633.36	0.0007	P	31.4	10.5
5	☐	100.000	98.808	4897.65	0.0058	P	4.2	-1.2
6	☐	200.000	200.554	9676.94	0.0117	P	3.6	0.3

y = 5.7936E-005 * x + 7.3188E-005
R = 1.0000
DL = 1.3 ppb
BEC = 1.263 ppb

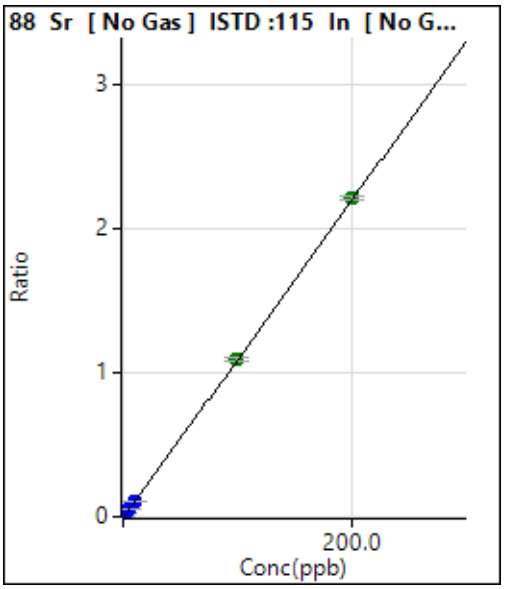
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	38.2	
2	☐	2.000	-215.533	170.00	0.0001	P	10.2	-10876.
3	☐	5.000	-106.649	183.34	0.0001	P	16.5	-2233.0
4	☐	10.000	-88.045	183.34	0.0001	P	21.4	-980.4
5	☐	100.000	-217.110	156.67	0.0001	P	80.0	-317.1
6	☐	200.000	368.424	220.01	0.0001	P	17.5	84.2

y = 4.0452E-008 * x + 6.2553E-005
R = 0.7170
DL = 1772 ppb
BEC = 1546 ppb

Weight: <None>
Min Conc: <None>

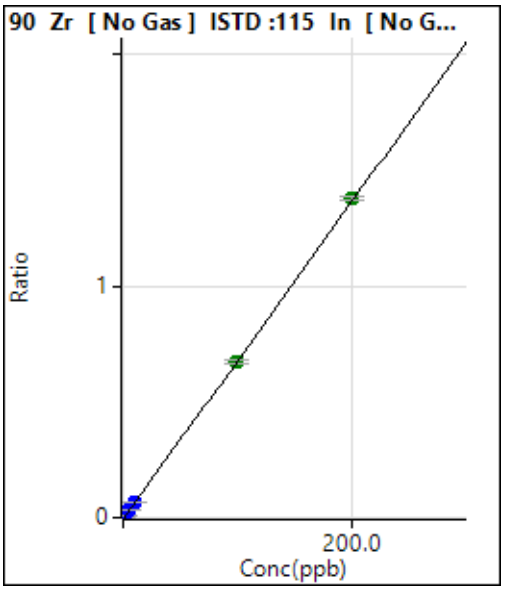


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2043.52	0.0005	P	14.3	
2	☐	2.000	2.046	100806.95	0.0231	P	1.8	2.3
3	☐	5.000	5.108	246714.32	0.0569	P	1.8	2.2
4	☐	10.000	10.128	483170.04	0.1123	P	1.9	1.3
5	☐	100.000	98.543	4446349.20	1.0885	A	2.4	-1.5
6	☐	200.000	200.719	8796152.37	2.2165	A	1.6	0.4

y = 0.0110 * x + 4.6204E-004
R = 1.0000
DL = 0.01796 ppb
BEC = 0.04185 ppb

Weight: <None>
Min Conc: <None>

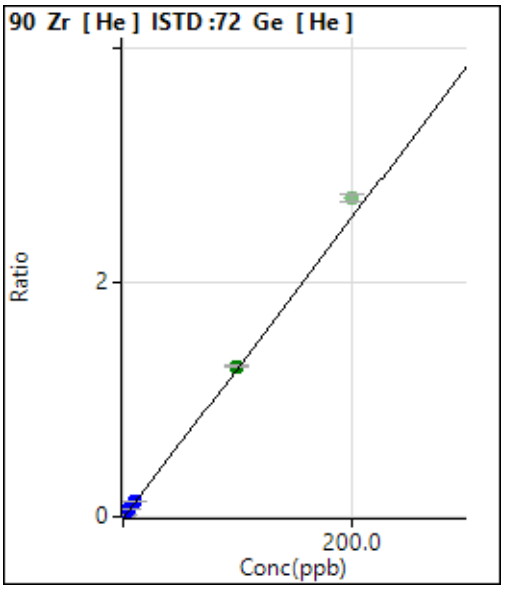
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1110.06	0.0003	P	6.6	
2	☐	2.000	1.664	50989.75	0.0117	P	1.1	-16.8
3	☐	5.000	4.402	132064.15	0.0304	P	1.7	-12.0
4	☐	10.000	9.338	276603.98	0.0643	P	1.2	-6.6
5	☐	100.000	97.711	2737978.50	0.6703	A	2.3	-2.3
6	☐	200.000	201.196	5475859.50	1.3798	A	1.3	0.6

y = 0.0069 * x + 2.5083E-004
R = 0.9999
DL = 0.007227 ppb
BEC = 0.03658 ppb

Weight: <None>
Min Conc: <None>

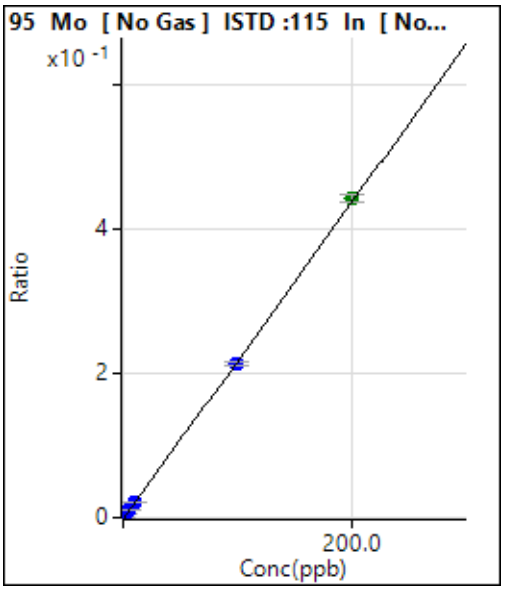


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0017	P	7.0	
2	☐	2.000	1.699	20966.50	0.0235	P	3.5	-15.0
3	☐	5.000	4.603	54058.52	0.0606	P	2.8	-7.9
4	☐	10.000	9.651	111097.16	0.1253	P	1.6	-3.5
5	☐	100.000	100.061	1083420.84	1.2827	A	1.9	0.1
6	☑	200.000		2248455.17	2.7168	A	2.5	

y = 0.0128 * x + 0.0017
R = 1.0000
DL = 0.02786 ppb
BEC = 0.1328 ppb

Weight: <None>
Min Conc: <None>

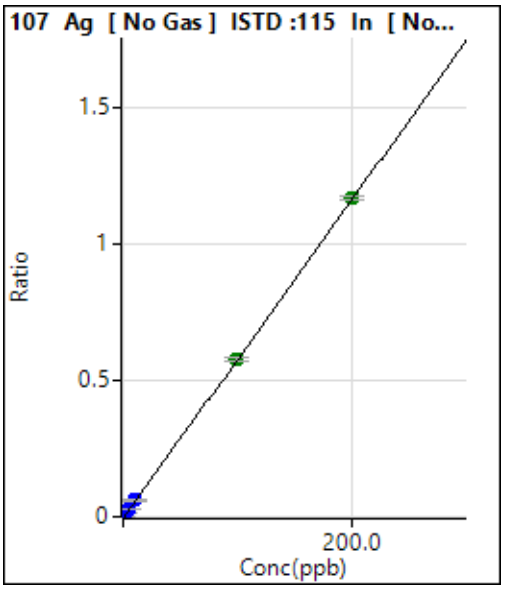
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0000	P	15.8	
2	☐	2.000	1.938	18696.61	0.0043	P	3.9	-3.1
3	☐	5.000	4.951	47206.40	0.0109	P	2.6	-1.0
4	☐	10.000	9.890	93392.15	0.0217	P	2.5	-1.1
5	☐	100.000	96.762	866437.20	0.2121	P	2.4	-3.2
6	☐	200.000	201.626	1753771.80	0.4419	A	2.0	0.8

y = 0.0022 * x + 2.8607E-005
R = 0.9998
DL = 0.006193 ppb
BEC = 0.01305 ppb

Weight: <None>
Min Conc: <None>

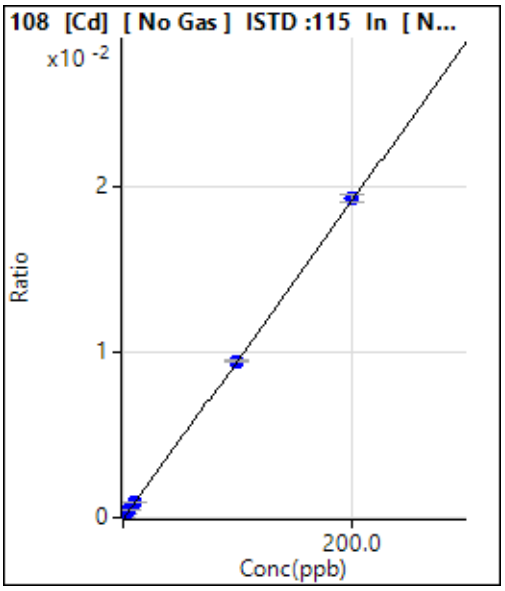


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	31.9	
2	☐	2.000	2.098	53888.70	0.0123	P	2.2	4.9
3	☐	5.000	5.180	131578.56	0.0303	P	1.9	3.6
4	☐	10.000	10.342	260214.48	0.0605	P	2.0	3.4
5	☐	100.000	99.293	2369307.93	0.5800	A	2.0	-0.7
6	☐	200.000	200.331	4643518.78	1.1701	A	1.4	0.2

y = 0.0058 * x + 6.8653E-005
R = 1.0000
DL = 0.01125 ppb
BEC = 0.01175 ppb

Weight: <None>
Min Conc: <None>

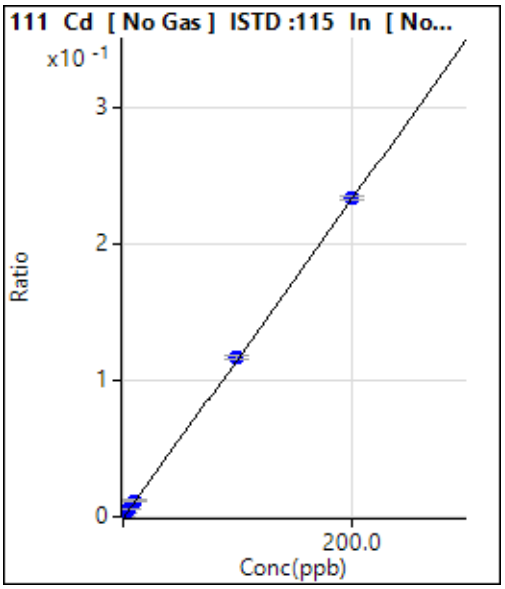
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.2	
2	☐	2.000	2.102	893.38	0.0002	P	8.0	5.1
3	☐	5.000	4.693	1966.85	0.0005	P	14.7	-6.1
4	☐	10.000	9.909	4107.37	0.0010	P	3.5	-0.9
5	☐	100.000	98.249	38582.61	0.0094	P	0.8	-1.8
6	☐	200.000	200.887	76619.08	0.0193	P	2.4	0.4

y = 9.6100E-005 * x + 2.2713E-006
R = 0.9999
DL = 0.07107 ppb
BEC = 0.02363 ppb

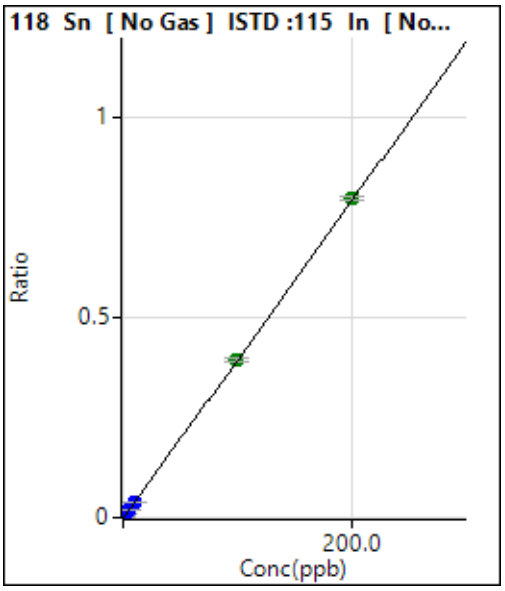
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7.40	0.0000	P	-214.	
2	☐	2.000	1.973	10099.50	0.0023	P	5.6	-1.4
3	☐	5.000	5.059	25709.01	0.0059	P	3.3	1.2
4	☐	10.000	10.136	51091.88	0.0119	P	2.5	1.4
5	☐	100.000	99.931	478228.22	0.1171	P	1.6	-0.1
6	☐	200.000	200.027	929935.39	0.2343	P	1.2	0.0

y = 0.0012 * x - 1.6896E-006
R = 1.0000
DL = 0.009272 ppb
BEC = -0.001442 ppb

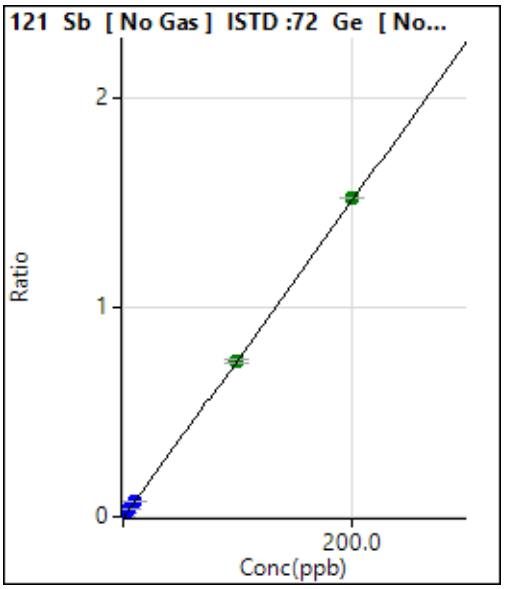
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7792.59	0.0018	P	90.4	
2	☐	2.000	1.722	37580.33	0.0086	P	1.7	-13.9
3	☐	5.000	4.647	87664.91	0.0202	P	2.5	-7.1
4	☐	10.000	9.723	173686.49	0.0404	P	1.5	-2.8
5	☐	100.000	98.589	1606338.05	0.3932	A	2.6	-1.4
6	☐	200.000	200.731	3170027.97	0.7988	A	1.2	0.4

y = 0.0040 * x + 0.0018
R = 1.0000
DL = 1.198 ppb
BEC = 0.4417 ppb

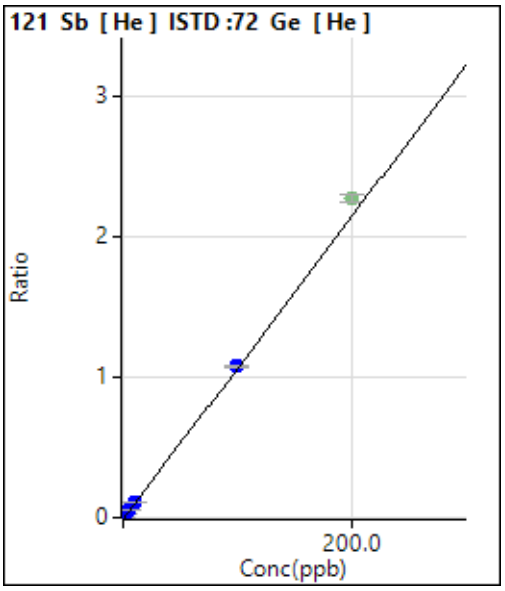
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	613.36	0.0002	P	14.2	
2	☐	2.000	1.914	46424.92	0.0147	P	1.8	-4.3
3	☐	5.000	4.808	115324.75	0.0366	P	2.3	-3.8
4	☐	10.000	9.750	230101.50	0.0741	P	1.4	-2.5
5	☐	100.000	97.932	2170757.83	0.7426	A	2.6	-2.1
6	☐	200.000	201.052	4326346.60	1.5244	A	0.5	0.5

y = 0.0076 * x + 1.9131E-004
R = 0.9999
DL = 0.01078 ppb
BEC = 0.02523 ppb

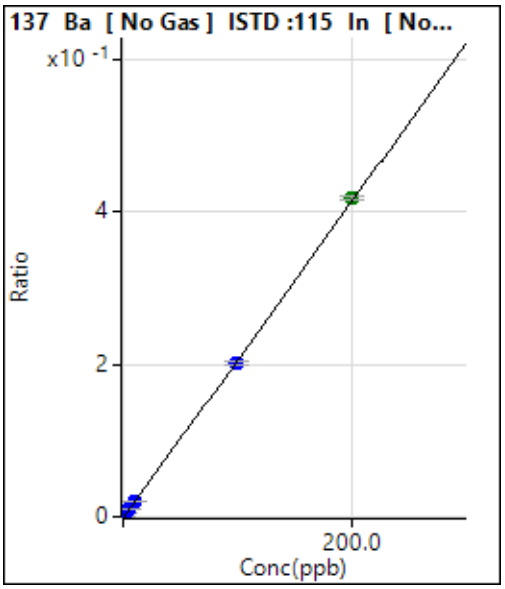
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	270.01	0.0003	P	2.9	
2	☐	2.000	1.985	19414.50	0.0217	P	2.2	-0.7
3	☐	5.000	5.048	48830.03	0.0548	P	2.9	1.0
4	☐	10.000	10.038	96338.64	0.1086	P	2.1	0.4
5	☐	100.000	99.994	911668.94	1.0793	P	1.6	0.0
6	☑	200.000		1885754.97	2.2786	A	2.3	

y = 0.0108 * x + 2.9669E-004
R = 1.0000
DL = 0.00237 ppb
BEC = 0.02749 ppb

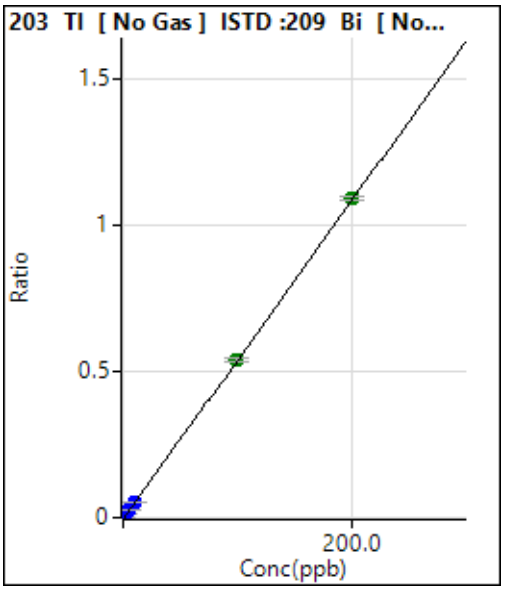
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0001	P	20.8	
2	☐	2.000	1.950	18346.41	0.0042	P	2.8	-2.5
3	☐	5.000	4.956	45298.23	0.0104	P	2.4	-0.9
4	☐	10.000	9.867	88836.43	0.0206	P	4.7	-1.3
5	☐	100.000	97.284	826307.96	0.2023	P	1.9	-2.7
6	☐	200.000	201.366	1660976.80	0.4185	A	1.3	0.7

y = 0.0021 * x + 1.4299E-004
R = 0.9999
DL = 0.04294 ppb
BEC = 0.06882 ppb

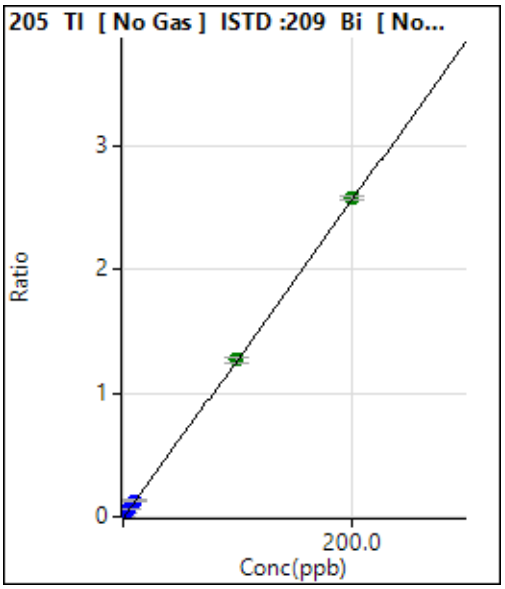
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	306.68	0.0001	P	34.6	
2	☐	2.000	2.068	55087.37	0.0113	P	1.4	3.4
3	☐	5.000	5.130	134948.34	0.0280	P	2.6	2.6
4	☐	10.000	10.073	266008.66	0.0549	P	1.7	0.7
5	☐	100.000	98.988	2475478.45	0.5390	A	3.1	-1.0
6	☐	200.000	200.498	4844499.61	1.0916	A	0.9	0.2

y = 0.0054 * x + 6.2523E-005
R = 1.0000
DL = 0.01191 ppb
BEC = 0.01148 ppb

Weight: <None>
Min Conc: <None>

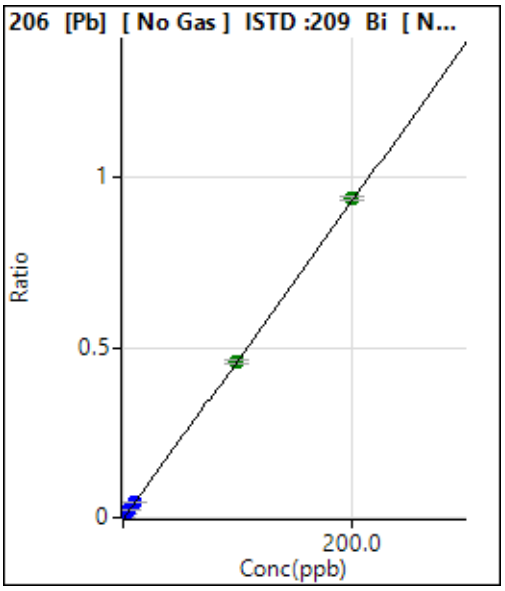


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	690.04	0.0001	P	13.9	
2	☐	2.000	2.067	130025.36	0.0267	P	0.8	3.3
3	☐	5.000	5.172	321407.94	0.0667	P	1.6	3.4
4	☐	10.000	10.170	634396.28	0.1309	P	2.0	1.7
5	☐	100.000	98.762	5834332.00	1.2703	A	3.1	-1.2
6	☐	200.000	200.606	11450363.58	2.5800	A	1.0	0.3

y = 0.0129 * x + 1.4080E-004
R = 1.0000
DL = 0.004553 ppb
BEC = 0.01095 ppb

Weight: <None>
Min Conc: <None>

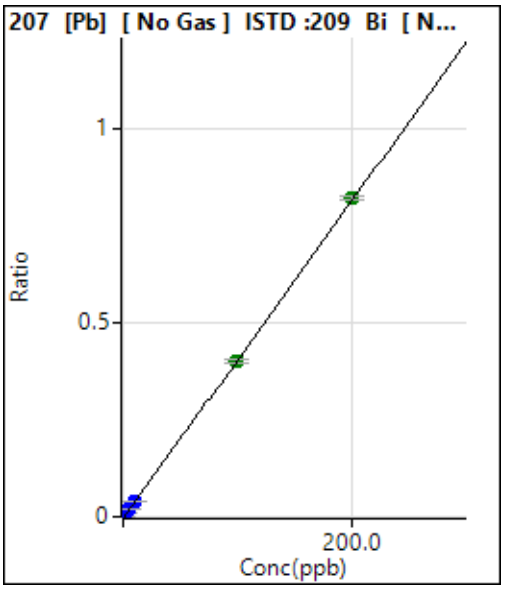
Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	613.36	0.0001	P	1.1	
2	☐	2.000	1.974	45428.86	0.0093	P	2.2	-1.3
3	☐	5.000	5.028	113712.79	0.0236	P	2.5	0.6
4	☐	10.000	9.913	224739.88	0.0464	P	1.1	-0.9
5	☐	100.000	97.820	2097034.92	0.4566	A	2.7	-2.2
6	☐	200.000	201.094	4164933.58	0.9385	A	1.0	0.5

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

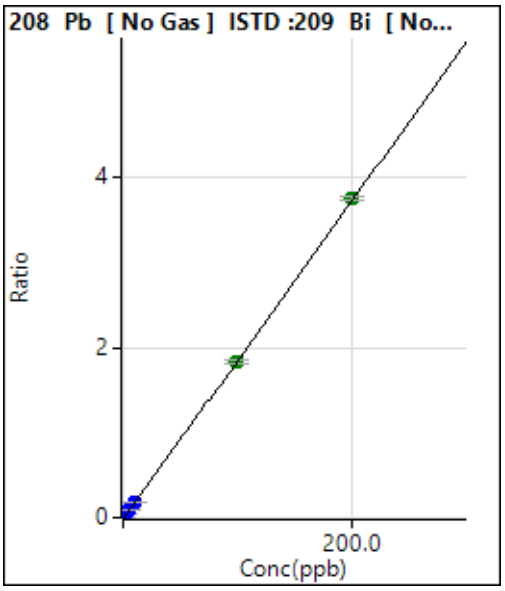
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	526.69	0.0001	P	2.5	
2	☐	2.000	1.977	39916.91	0.0082	P	2.8	-1.1
3	☐	5.000	4.949	98247.52	0.0204	P	1.1	-1.0
4	☐	10.000	9.792	194824.24	0.0402	P	1.1	-2.1
5	☐	100.000	98.116	1846001.28	0.4019	A	2.1	-1.9
6	☐	200.000	200.954	3652784.63	0.8230	A	1.2	0.5

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

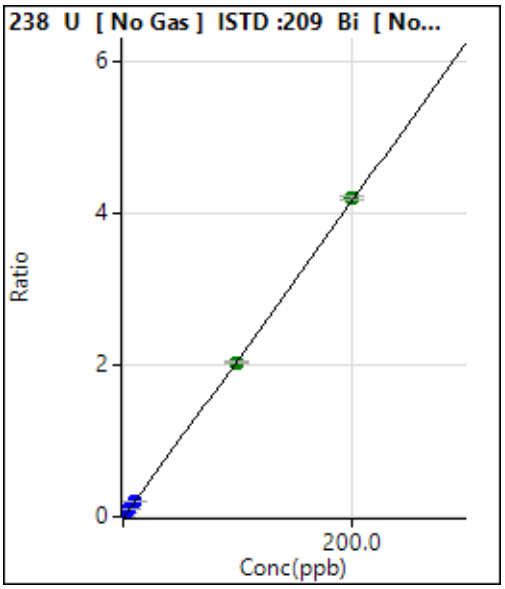
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2323.46	0.0005	P	5.2	
2	☐	2.000	1.983	182555.67	0.0375	P	1.1	-0.8
3	☐	5.000	5.001	452680.68	0.0939	P	1.6	0.0
4	☐	10.000	9.922	900363.97	0.1858	P	1.0	-0.8
5	☐	100.000	98.116	8420353.73	1.8333	A	2.1	-1.9
6	☐	200.000	200.946	16660976.42	3.7541	A	0.8	0.5

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

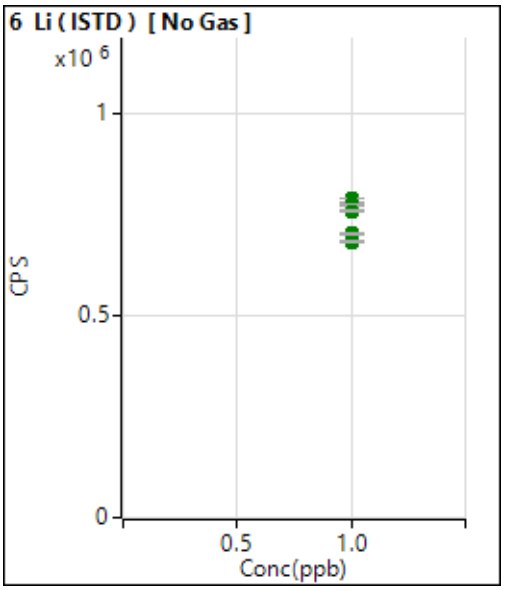
Weight: <None>
Min Conc: <None>



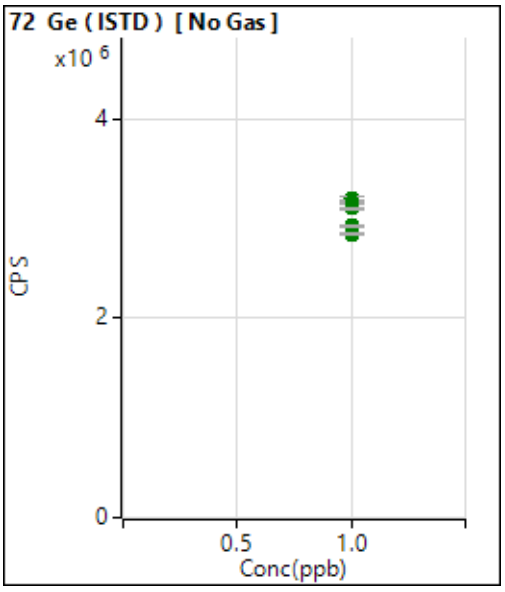
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1480.12	0.0003	P	5.6	
2	☐	2.000	1.852	189250.53	0.0389	P	0.7	-7.4
3	☐	5.000	4.679	471674.98	0.0978	P	0.8	-6.4
4	☐	10.000	9.283	938876.92	0.1938	P	0.9	-7.2
5	☐	100.000	97.517	9336513.61	2.0327	A	1.8	-2.5
6	☐	200.000	201.287	18618820.56	4.1953	A	1.2	0.6

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

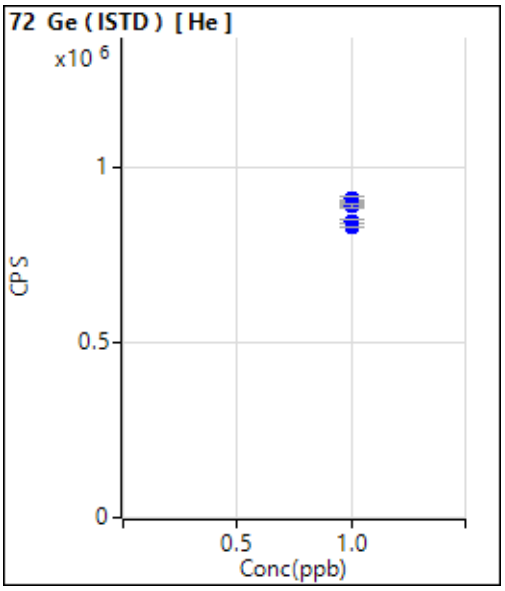
Weight: <None>
Min Conc: <None>



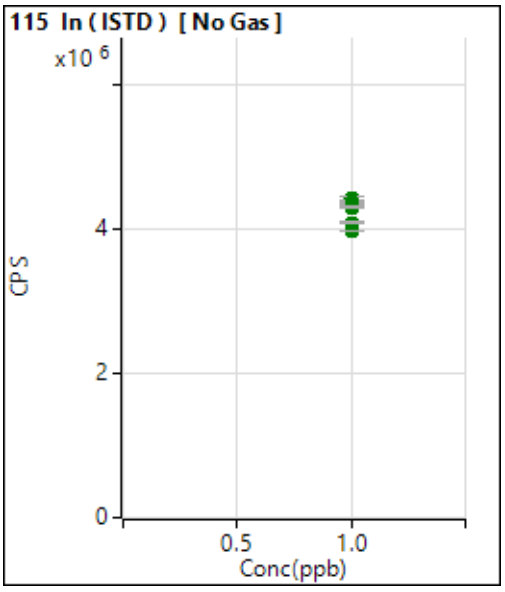
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		789600.72		A	0.1	
2	☐	1.000		775224.95		A	0.7	
3	☐	1.000		773452.79		A	0.2	
4	☐	1.000		758349.11		A	0.7	
5	☐	1.000		702121.63		A	0.9	
6	☐	1.000		682313.47		A	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3202766.93		A	1.1	
2	☐	1.000		3158043.81		A	0.8	
3	☐	1.000		3147283.08		A	0.4	
4	☐	1.000		3105103.60		A	0.7	
5	☐	1.000		2923348.81		A	0.8	
6	☐	1.000		2838106.21		A	0.7	

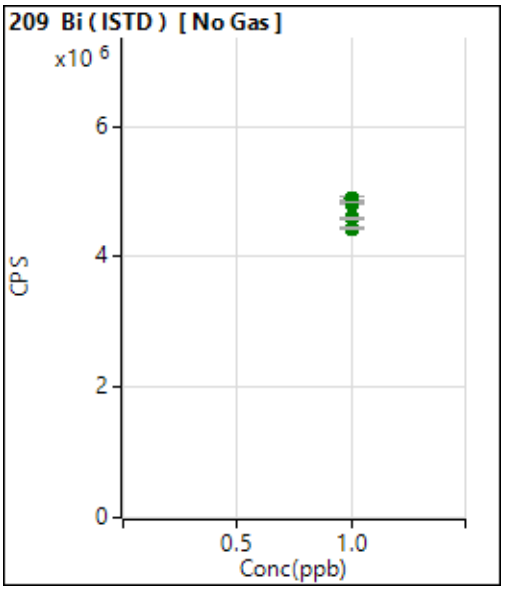


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		909952.25		P	1.0	
2	☐	1.000		893987.98		P	0.8	
3	☐	1.000		891524.36		P	0.4	
4	☐	1.000		886961.47		P	0.9	
5	☐	1.000		844684.91		P	1.3	
6	☐	1.000		827580.22		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4425209.38		A	0.8	
2	☐	1.000		4373188.50		A	0.2	
3	☐	1.000		4339244.30		A	0.7	
4	☐	1.000		4303189.89		A	0.2	
5	☐	1.000		4085281.93		A	0.7	
6	☐	1.000		3968529.13		A	0.3	

Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4898592.22		A	0.6	
2	☐	1.000		4865545.24		A	0.6	
3	☐	1.000		4821597.12		A	0.7	
4	☐	1.000		4845240.35		A	0.3	
5	☐	1.000		4593412.85		A	0.6	
6	☐	1.000		4438006.81		A	0.5	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	174LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:54:25-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	165CALB.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	2.225	2.225	5.32	65444	0.00	2	
Be	9	1	No Gas	2.050	2.050	2.00	5499	0.04	2	
V	51	2	He	1.696	1.696	4.67	17897	0.01	2	
Cr	52	2	He	2.055	2.055	3.25	23584	0.01	2	
Fe	56	2	He	201.574	201.574	1.96	1447792	0.01	200	
Se	78	2	He	2.386	2.386	12.77	355	0.67	2	
As	75	2	He	1.941	1.941	2.31	2625	0.07	2	
Ca	44	2	He	212.879	212.879	4.98	9140	2.33	200	
Na	23	2	He	195.892	195.892	2.42	286313	0.07	200	
Mg	24	2	He	202.879	202.879	1.55	132565	0.15	200	
K	39	2	He	197.643	197.643	2.62	243846	0.08	200	
Mn	55	2	He	1.994	1.994	5.10	12062	0.02	2	
Co	59	2	He	2.094	2.094	0.72	24796	0.01	2	
Ni	60	2	He	2.056	2.056	3.00	6375	0.03	2	
Cu	63	2	He	2.034	2.034	2.74	17291	0.01	2	
Zn	66	2	He	2.161	2.161	8.40	4091	0.05	2	
Al	27	2	He	1.919	1.919	8.49	1720	0.11	2	
B	11	1	No Gas	11.850	11.850	2.03	27014	0.04	10	
Al	27	1	No Gas	2.001	2.001	4.68	61357	0.00	2	
Si	28	1	No Gas	10.315	10.315	1.46	244322	0.00	10	
Ag	107	1	No Gas	2.034	2.034	3.29	49740	0.00	2	
Cd	111	1	No Gas	1.999	1.999	8.01	9739	0.02	2	
Sr	88	1	No Gas	2.038	2.038	2.79	95569	0.00	2	
Mo	95	1	No Gas	1.965	1.965	0.37	18042	0.01	2	
Sn	118	1	No Gas	1.787	1.787	3.27	36838	0.00	2	
Sb	121	1	No Gas	1.994	1.994	2.15	45562	0.00	2	
Ba	137	1	No Gas	1.964	1.964	2.91	17579	0.01	2	
Tl	205	1	No Gas	2.068	2.068	1.25	126433	0.00	2	
Tl	203	1	No Gas	2.086	2.086	2.05	53992	0.00	2	
Pb	208	1	No Gas	1.992	1.992	1.05	178240	0.00	2	
U	238	1	No Gas	1.870	1.870	1.30	185768	0.00	2	
Ca	43	2	He	247.541	247.541	28.98	633	39.08	200	
Sb	121	2	He	1.934	1.934	1.75	18974	0.01	2	
Ti	47	2	He	1.962	1.962	18.66	480	0.41	200	
Cu	63	1	No Gas	2.137	2.137	1.94	33107	0.01	2	
Se	82	1	No Gas	1.904	1.904	25.96	913	0.21	2	
Zr	90	1	No Gas	1.702	1.702	1.76	49614	0.00	2	
Zr	90	2	He	1.648	1.648	8.76	20462	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	724437	0.26	789601	91.75	70	120	

Sample Report

Ge	72	2	He	858997	1.16	909952	94.40	70	120	
Ge	72	1	No Gas	2975743	0.20	3202767	92.91	70	120	
In	115	1	No Gas	4162766	0.27	4425209	94.07	70	120	
Bi	209	1	No Gas	4729303	0.18	4898592	96.54	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	175LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:56:50-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	165CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.377	5.377	1.96	94430	0.01	5	
Be	9	1	No Gas	5.017	5.017	4.19	13308	0.04	5	
V	51	2	He	4.882	4.882	1.35	38745	0.01	5	
Cr	52	2	He	5.144	5.144	2.53	46806	0.01	5	
Fe	56	2	He	519.484	519.484	1.08	3708475	0.01	500	
Se	78	2	He	4.858	4.858	7.39	617	0.79	5	
As	75	2	He	5.086	5.086	2.09	6357	0.08	5	
Ca	44	2	He	516.717	516.717	4.21	21440	2.41	500	
Na	23	2	He	511.288	511.288	1.01	615513	0.08	500	
Mg	24	2	He	517.686	517.686	1.72	335194	0.15	500	
K	39	2	He	510.458	510.458	2.25	487131	0.10	500	
Mn	55	2	He	5.060	5.060	2.74	29769	0.02	5	
Co	59	2	He	5.238	5.238	2.04	61802	0.01	5	
Ni	60	2	He	5.334	5.334	0.53	16153	0.03	5	
Cu	63	2	He	5.225	5.225	3.24	43406	0.01	5	
Zn	66	2	He	5.118	5.118	5.06	8576	0.06	5	
Al	27	2	He	5.526	5.526	10.93	3170	0.17	5	
B	11	1	No Gas	26.727	26.727	1.55	51471	0.05	25	
Al	27	1	No Gas	4.895	4.895	1.75	102397	0.00	5	
Si	28	1	No Gas	26.153	26.153	1.00	356579	0.01	25	
Ag	107	1	No Gas	5.175	5.175	1.77	127581	0.00	5	
Cd	111	1	No Gas	5.189	5.189	4.23	25596	0.02	5	
Sr	88	1	No Gas	5.012	5.012	0.80	234964	0.00	5	
Mo	95	1	No Gas	4.914	4.914	3.11	45474	0.01	5	
Sn	118	1	No Gas	4.845	4.845	1.68	88400	0.01	5	
Sb	121	1	No Gas	4.963	4.963	1.61	112535	0.00	5	
Ba	137	1	No Gas	4.979	4.979	2.29	44164	0.01	5	
Tl	205	1	No Gas	5.202	5.202	2.22	319304	0.00	5	
Tl	203	1	No Gas	5.143	5.143	1.95	133663	0.00	5	
Pb	208	1	No Gas	5.003	5.003	1.61	447381	0.00	5	
U	238	1	No Gas	4.741	4.741	0.84	472100	0.00	5	
Ca	43	2	He	509.637	509.637	5.14	1257	40.55	500	
Sb	121	2	He	5.132	5.132	2.50	47803	0.01	5	
Ti	47	2	He	5.577	5.577	7.81	1330	0.42	5	
Cu	63	1	No Gas	5.302	5.302	2.32	80270	0.01	5	
Se	82	1	No Gas	5.466	5.466	12.17	1897	0.29	5	
Zr	90	1	No Gas	4.442	4.442	1.08	129324	0.00	5	
Zr	90	2	He	4.682	4.682	2.85	52927	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	719809	0.46	789601	91.16	70	120	

Sample Report

Ge	72	2	He	858518	0.41	909952	94.35	70	120	
Ge	72	1	No Gas	2975803	0.30	3202767	92.91	70	120	
In	115	1	No Gas	4210948	0.56	4425209	95.16	70	120	
Bi	209	1	No Gas	4763591	0.93	4898592	97.24	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	176_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:59:14-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.034	139.3	44795	0.5	0.5	
Be	9	1	No Gas	0.005	89.2	57	22.2	0.5	
V	51	2	He	-0.294	-10.1	4930	3.2	2.5	
Cr	52	2	He	0.085	47.1	8890	2.5	2.5	
Fe	56	2	He	2.585	1.8	31977	1.4	100	
Se	78	2	He	0.257	17.0	130	4.6	1	
As	75	2	He	-0.033	-58.4	283	7.2	2.5	
Ca	44	2	He	29.793	12.4	1740	8.0	100	
Na	23	2	He	-8.919	-1.1	73323	1.2	100	
Mg	24	2	He	1.067	9.5	2584	3.5	100	
K	39	2	He	-2.807	-36.7	89023	1.0	100	
Mn	55	2	He	0.073	27.5	973	11.3	2.5	
Co	59	2	He	0.001	206.9	147	17.2	2.5	
Ni	60	2	He	0.082	16.2	490	8.9	2.5	
Cu	63	2	He	0.050	21.4	1050	7.4	1	
Zn	66	2	He	0.567	19.3	1697	10.5	2.5	
Al	27	2	He	2.111	18.5	1823	9.8	5	
B	11	1	No Gas	1.868	9.7	10364	2.5	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.591	8.3	56463	2.8	5	
Si	28	1	No Gas	2.786	6.5	194184	1.5	10	
Ag	107	1	No Gas	0.008	55.5	500	23.1	2.5	
Cd	111	1	No Gas	-0.001	-281.2	-11	-97.9	1	
Sr	88	1	No Gas	0.074	4.1	5395	2.1	2.5	
Mo	95	1	No Gas	0.012	15.9	230	7.5	2.5	
Sn	118	1	No Gas	-0.094	-9.5	5851	2.9	5	
Sb	121	1	No Gas	0.023	25.4	1117	11.5	2.5	
Ba	137	1	No Gas	0.192	7.5	2297	5.9	2.5	
Tl	205	1	No Gas	0.005	14.0	987	4.8	1	
Tl	203	1	No Gas	0.004	58.8	407	15.6	1	
Pb	208	1	No Gas	0.009	16.8	3077	4.0	2.5	
U	238	1	No Gas	-0.001	-280.9	1383	12.4	2.5	
Ca	43	2	He	6.367	111.7	60	28.9	100	
Sb	121	2	He	0.027	4.3	513	3.0	2.5	
Ti	47	2	He	-0.010	-664.5	17	91.7	2.5	
Se	82	1	No Gas	-0.101	-396.5	367	31.6	1	
Zr	90	1	No Gas	0.097	14.1	3887	10.6	2.5	
Zr	90	2	He	0.073	2.1	2294	1.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	723264	0.50	789601	91.60	70	120	
Ge	72	2	He	870901	1.05	909952	95.71	70	120	
Ge	72	1	No Gas	3025810	0.87	3202767	94.47	70	120	
In	115	1	No Gas	4232403	0.51	4425209	95.64	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4776619	0.44	4898592	97.51	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	179_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:40:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.766	2.367	980171	2.45	100	99.8	90	110	
Be	9	1	No Gas	100.544	2.082	267309	2.35	100	100.5	90	110	
V	51	2	He	100.569	0.823	658401	0.97	100	100.6	90	110	
Cr	52	2	He	99.574	1.102	749152	1.26	100	99.6	90	110	
Fe	56	2	He	9972.965	1.696	70231221	1.86	10000	99.7	90	110	
Se	78	2	He	101.973	0.868	10834	1.01	100	102.0	90	110	
As	75	2	He	101.351	1.070	119417	1.23	100	101.4	90	110	
Ca	44	2	He	10147.677	1.314	407339	1.48	10000	101.5	90	110	
Na	23	2	He	9997.113	0.716	10413805	0.87	10000	100.0	90	110	
Mg	24	2	He	10151.568	0.771	6471595	0.93	10000	101.5	90	110	
K	39	2	He	10070.265	1.164	7844407	1.31	10000	100.7	90	110	
Mn	55	2	He	100.107	1.029	572888	1.19	100	100.1	90	110	
Co	59	2	He	101.133	1.905	1178768	2.06	100	101.1	90	110	
Ni	60	2	He	100.759	1.364	297781	1.51	100	100.8	90	110	
Cu	63	2	He	99.043	1.045	803152	1.21	100	99.0	90	110	
Zn	66	2	He	101.555	1.255	153311	1.42	100	101.6	90	110	
Al	27	2	He	101.760	1.865	41478	1.94	100	101.8	90	110	
B	11	1	No Gas	485.807	1.780	815839	2.00	500	97.2	90	110	
Al	27	1	No Gas	102.005	2.252	1463196	2.53	100	102.0	90	110	
Si	28	1	No Gas	505.863	2.588	3713958	2.80	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.861	1.699	2397640	1.93	100	100.9	90	110	
Cd	111	1	No Gas	100.071	2.830	477102	3.05	100	100.1	90	110	
Sr	88	1	No Gas	100.727	2.627	4527820	2.86	100	100.7	90	110	
Mo	95	1	No Gas	98.403	1.584	877812	1.82	100	98.4	90	110	
Sn	118	1	No Gas	99.916	1.578	1621742	1.77	100	99.9	90	110	
Sb	121	1	No Gas	99.782	2.315	2226122	2.69	100	99.8	90	110	
Ba	137	1	No Gas	98.331	1.939	832049	2.09	100	98.3	90	110	
Tl	205	1	No Gas	98.251	1.598	5789690	2.50	100	98.3	90	110	
Tl	203	1	No Gas	98.710	1.709	2462309	2.49	100	98.7	90	110	
Pb	208	1	No Gas	98.565	1.409	8437473	2.28	100	98.6	90	110	
U	238	1	No Gas	98.267	0.985	9383860	1.83	100	98.3	90	110	
Ca	43	2	He	10175.430	2.008	24008	2.08	10000	101.8	90	110	
Sb	121	2	He	102.532	1.105	940432	1.22	100	102.5	90	110	
Ti	47	2	He	101.293	1.066	23597	1.21	100	101.3	90	110	
Cu	63	1	No Gas	102.927	2.251	1517735	2.56	100	102.9	90	110	
Se	82	1	No Gas	98.806	2.206	27358	2.71	100	98.8	90	110	
Zr	90	1	No Gas	90.769	2.058	2534002	2.29	100	90.8	90	110	
Zr	90	2	He	93.543	0.755	1019079	0.91	100	93.5	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	723586	0.30	789601	91.64	70	120	
Ge	72	2	He	849730	0.17	909952	93.38	70	120	
Ge	72	1	No Gas	2941968	0.54	3202767	91.86	70	120	
In	115	1	No Gas	4069552	0.25	4425209	91.96	70	120	
Bi	209	1	No Gas	4581100	0.95	4898592	93.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	180_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:43:05-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	-0.052	-127.8	46246	1.6	0.5	
Be	9	1	No Gas	0.019	29.7	97	15.8	0.5	
V	51	2	He	-0.640	-0.2	2601	0.4	2.5	
Cr	52	2	He	-0.251	-7.7	6262	2.8	2.5	
Fe	56	2	He	0.986	2.7	20232	1.0	100	
Se	78	2	He	0.101	169.4	112	16.4	2	
As	75	2	He	-0.060	-43.1	248	12.2	2.5	
Ca	44	2	He	13.404	12.3	1057	6.8	100	
Na	23	2	He	-6.620	-7.4	74988	1.1	100	
Mg	24	2	He	0.655	38.4	2290	6.9	100	
K	39	2	He	-0.814	-225.8	89680	2.0	100	
Mn	55	2	He	0.128	8.6	1283	4.8	2.5	
Co	59	2	He	0.005	83.2	193	26.0	2.5	
Ni	60	2	He	0.209	16.3	867	12.2	2.5	
Cu	63	2	He	0.047	6.7	1020	2.6	2	
Zn	66	2	He	1.196	12.7	2637	8.7	2.5	
Al	27	2	He	-0.514	-56.3	743	16.2	5	
B	11	1	No Gas	3.781	23.1	14241	10.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.357	-8.7	28115	1.6	5	
Si	28	1	No Gas	12.825	2.1	264175	0.6	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.013	3.4	600	1.7	2.5	
Cd	111	1	No Gas	0.006	74.8	22	98.6	1	
Sr	88	1	No Gas	-0.006	-52.8	1643	8.5	2.5	
Mo	95	1	No Gas	0.057	41.1	643	32.7	2.5	
Sn	118	1	No Gas	-0.108	-24.9	5555	7.5	5	
Sb	121	1	No Gas	0.051	12.5	1723	8.1	2.5	
Ba	137	1	No Gas	-0.023	-18.7	400	10.0	2.5	
Tl	205	1	No Gas	0.057	49.6	4104	42.7	1	
Tl	203	1	No Gas	0.060	59.3	1814	50.8	1	
Pb	208	1	No Gas	0.010	9.0	3080	3.3	2.5	
U	238	1	No Gas	0.004	13.2	1760	2.0	2.5	
Ca	43	2	He	13.661	154.8	77	65.7	100	
Sb	121	2	He	0.048	26.8	707	17.6	2.5	
Ti	47	2	He	-0.009	-947.8	17	124.9	2.5	
Cu	63	1	No Gas	0.065	7.4	2254	3.2	2.5	
Se	82	1	No Gas	-0.363	-74.5	290	26.0	2	
Zr	90	1	No Gas	0.117	10.7	4397	7.4	2.5	
Zr	90	2	He	0.088	8.3	2440	2.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	760215	0.23	789601	96.28	70	120	
Ge	72	2	He	862039	0.47	909952	94.73	70	120	
Ge	72	1	No Gas	2999186	0.18	3202767	93.64	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4187817	0.80	4425209	94.64	70	120	
Bi	209	1	No Gas	4653983	1.00	4898592	95.01	70	120	

Sample Report

Sample Table

Sample Name	MBLK-214140
Data File Name	181SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:45:30-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	-0.097	-0.097	-20.17	45445	0.00	2000	
Be	9	1	No Gas	0.004	0.004	208.24	55	0.01	2000	
V	51	2	He	-0.610	-0.610	-1.43	2791	-0.02	2000	
Cr	52	2	He	-0.276	-0.276	-15.92	6051	0.00	2000	
Fe	56	2	He	0.724	0.724	5.49	18296	0.00	200000	
Se	78	2	He	0.123	0.123	83.79	114	0.11	2000	
As	75	2	He	-0.080	-0.080	-5.14	223	-0.04	2000	
Ca	44	2	He	7.467	7.467	31.60	813	0.92	200000	
Na	23	2	He	-13.173	-13.173	-9.39	67886	-0.02	200000	
Mg	24	2	He	-0.514	-0.514	-32.97	1530	-0.03	200000	
K	39	2	He	-3.958	-3.958	-26.55	86933	0.00	200000	
Mn	55	2	He	0.068	0.068	18.78	933	0.01	2000	
Co	59	2	He	0.005	0.005	50.59	187	0.00	2000	
Ni	60	2	He	0.304	0.304	4.51	1147	0.03	2000	
Cu	63	2	He	0.048	0.048	9.39	1020	0.00	2000	
Zn	66	2	He	1.406	1.406	4.73	2947	0.05	2000	
Al	27	2	He	-0.447	-0.447	-52.84	767	-0.06	2000	
B	11	1	No Gas	0.989	0.989	8.81	9285	0.01	2000	
Al	27	1	No Gas	-0.675	-0.675	-2.20	23710	0.00	2000	
Si	28	1	No Gas	-0.455	-0.455	-15.92	170273	0.00	2000	
Ag	107	1	No Gas	0.004	0.004	77.46	387	0.00	2000	
Cd	111	1	No Gas	0.001	0.001	407.62	-4	-0.01	2000	
Sr	88	1	No Gas	-0.020	-0.020	-21.97	997	0.00	2000	
Mo	95	1	No Gas	0.011	0.011	34.44	220	0.00	2000	
Sn	118	1	No Gas	-0.163	-0.163	-12.27	4651	0.00	2000	
Sb	121	1	No Gas	0.014	0.014	57.61	893	0.00	2000	
Ba	137	1	No Gas	-0.013	-0.013	-16.50	490	0.00	2000	
Tl	205	1	No Gas	0.007	0.007	15.21	1080	0.00	2000	
Tl	203	1	No Gas	0.008	0.008	57.34	497	0.00	2000	
Pb	208	1	No Gas	0.006	0.006	26.49	2687	0.00	2000	
U	238	1	No Gas	0.000	0.000	301.34	1440	0.00	2000	
Ca	43	2	He	5.333	5.333	120.66	57	9.41	200000	
Sb	121	2	He	0.014	0.014	16.29	383	0.00	2000	
Ti	47	2	He	-0.051	-0.051	-48.22	7	-0.77	2000	
Cu	63	1	No Gas	0.043	0.043	11.59	1927	0.00	2000	
Ca	44	1	No Gas	4.032	4.032	27.43	16073	0.03	200000	
Zn	66	1	No Gas	1.351	1.351	6.96	8113	0.02	2000	
Se	82	1	No Gas	-0.487	-0.487	-38.11	257	-0.19	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	754312	0.38	789601	95.53	70	120	
Ge	72	2	He	859261	1.49	909952	94.43	70	120	
Ge	72	1	No Gas	3016071	0.27	3202767	94.17	70	120	

Sample Report

In	115	1	No Gas	4197912	0.56	4425209	94.86	70	120	
Bi	209	1	No Gas	4637823	0.53	4898592	94.68	70	120	

Sample Report

Sample Table

Sample Name	LCS-214140
Data File Name	182SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:47:54-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	94.684	94.684	1.06	902583	0.01	2000	
Be	9	1	No Gas	46.556	46.556	1.07	119824	0.04	2000	
V	51	2	He	47.016	47.016	1.94	308886	0.02	2000	
Cr	52	2	He	47.446	47.446	1.76	358284	0.01	2000	
Fe	56	2	He	4866.067	4866.067	2.46	33999599	0.01	200000	
Se	78	2	He	48.195	48.195	1.95	5132	0.94	2000	
As	75	2	He	47.767	47.767	2.29	55999	0.09	2000	
Ca	44	2	He	4991.233	4991.233	1.30	199010	2.51	200000	
Na	23	2	He	4860.757	4860.757	1.05	5064122	0.10	200000	
Mg	24	2	He	4929.892	4929.892	1.61	3118622	0.16	200000	
K	39	2	He	4876.085	4876.085	1.64	3813502	0.13	200000	
Mn	55	2	He	48.269	48.269	2.10	274293	0.02	2000	
Co	59	2	He	47.582	47.582	1.82	550218	0.01	2000	
Ni	60	2	He	48.131	48.131	2.05	141227	0.03	2000	
Cu	63	2	He	47.903	47.903	2.68	385662	0.01	2000	
Zn	66	2	He	47.912	47.912	1.12	72173	0.07	2000	
Al	27	2	He	105.575	105.575	2.39	42655	0.25	2000	
B	11	1	No Gas	457.262	457.262	1.64	743611	0.06	2000	
Al	27	1	No Gas	101.429	101.429	1.69	1437073	0.01	2000	
Si	28	1	No Gas	546.733	546.733	1.27	3950733	0.01	2000	
Ag	107	1	No Gas	47.907	47.907	0.97	1128371	0.00	2000	
Cd	111	1	No Gas	46.925	46.925	0.96	221633	0.02	2000	
Sr	88	1	No Gas	71.097	71.097	1.85	3166528	0.00	2000	
Mo	95	1	No Gas	46.249	46.249	1.28	408777	0.01	2000	
Sn	118	1	No Gas	69.412	69.412	1.27	1118268	0.01	2000	
Sb	121	1	No Gas	46.350	46.350	0.12	1021527	0.00	2000	
Ba	137	1	No Gas	46.540	46.540	1.68	390431	0.01	2000	
Tl	205	1	No Gas	42.026	42.026	2.36	2450956	0.00	2000	
Tl	203	1	No Gas	41.835	41.835	1.43	1032843	0.00	2000	
Pb	208	1	No Gas	45.894	45.894	1.35	3888845	0.00	2000	
U	238	1	No Gas	179.525	179.525	1.44	16963938	0.00	2000	
Ca	43	2	He	4954.269	4954.269	5.85	11618	42.64	200000	
Sb	121	2	He	49.597	49.597	1.76	451392	0.01	2000	
Ti	47	2	He	122.923	122.923	2.12	28403	0.43	2000	
Cu	63	1	No Gas	48.183	48.183	1.72	702358	0.01	2000	
Ca	44	1	No Gas	4744.915	4744.915	1.73	2758575	0.17	200000	
Zn	66	1	No Gas	47.090	47.090	0.73	193424	0.02	2000	
Se	82	1	No Gas	44.653	44.653	3.32	12419	0.36	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	700363	0.85	789601	88.70	70	120	
Ge	72	2	He	842965	0.50	909952	92.64	70	120	
Ge	72	1	No Gas	2905628	0.69	3202767	90.72	70	120	

Sample Report

In	115	1	No Gas	4031877	0.70	4425209	91.11	70	120	
Bi	209	1	No Gas	4533675	0.29	4898592	92.55	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10SD
Data File Name	184SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:52:46-05:00
Sample Type	Sample
Dilution	5
Comment	TW B 214140
ISTD Ref FileName	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.725	23.625	1.68	90512	0.01	2000	
Be	9	1	No Gas	0.016	0.079	27.77	87	0.02	2000	
V	51	2	He	-0.665	-3.327	-2.30	2396	-0.03	2000	
Cr	52	2	He	-0.172	-0.860	-19.14	6742	0.00	2000	
Fe	56	2	He	6357.288	31786.439	0.53	44664901	0.01	200000	
Se	78	2	He	0.043	0.216	520.97	104	0.04	2000	
As	75	2	He	0.082	0.412	32.22	411	0.02	2000	
Ca	44	2	He	4634.903	23174.515	0.95	185879	2.49	200000	
Na	23	2	He	27544.842	137724.210	1.10	28482210	0.10	200000	
Mg	24	2	He	1591.755	7958.777	0.43	1013846	0.16	200000	
K	39	2	He	502.679	2513.394	1.68	474982	0.11	200000	
Mn	55	2	He	100.165	500.826	0.72	571825	0.02	2000	
Co	59	2	He	0.266	1.330	6.17	3224	0.01	2000	
Ni	60	2	He	0.425	2.124	11.98	1487	0.03	2000	
Cu	63	2	He	0.139	0.696	9.73	1747	0.01	2000	
Zn	66	2	He	2.830	14.152	4.23	5041	0.06	2000	
Al	27	2	He	1.697	8.484	36.29	1610	0.11	2000	
B	11	1	No Gas	8.453	42.263	4.92	21737	0.04	2000	
Al	27	1	No Gas	2.547	12.737	31.34	68179	0.00	2000	
Si	28	1	No Gas	2680.301	13401.506	1.86	18911332	0.01	2000	>LDR
Ag	107	1	No Gas	0.003	0.015	94.18	353	0.00	2000	
Cd	111	1	No Gas	0.021	0.103	15.95	92	0.02	2000	
Sr	88	1	No Gas	65.409	327.045	2.60	2968936	0.00	2000	
Mo	95	1	No Gas	0.021	0.105	48.60	307	0.01	2000	
Sn	118	1	No Gas	-0.214	-1.072	-3.93	3707	-0.01	2000	
Sb	121	1	No Gas	0.020	0.099	15.59	1003	0.00	2000	
Ba	137	1	No Gas	124.160	620.798	1.84	1060484	0.01	2000	
Tl	205	1	No Gas	0.006	0.029	26.10	997	0.00	2000	
Tl	203	1	No Gas	0.006	0.032	37.90	447	0.00	2000	
Pb	208	1	No Gas	0.032	0.160	2.46	4940	0.00	2000	
U	238	1	No Gas	0.001	0.007	125.79	1523	0.00	2000	
Ca	43	2	He	4645.041	23225.204	5.30	10954	42.40	200000	
Sb	121	2	He	0.026	0.132	33.45	493	0.01	2000	
Ti	47	2	He	0.121	0.607	89.04	47	0.26	2000	
Cu	63	1	No Gas	0.443	2.217	4.49	7762	0.01	2000	
Ca	44	1	No Gas	4544.293	22721.463	1.78	2670104	0.17	200000	
Zn	66	1	No Gas	2.958	14.790	3.64	14485	0.02	2000	
Se	82	1	No Gas	-0.413	-2.063	-40.08	270	-0.15	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	737396	0.94	789601	93.39	70	120	
Ge	72	2	He	847699	0.64	909952	93.16	70	120	
Ge	72	1	No Gas	2935772	0.63	3202767	91.66	70	120	

Sample Report

In	115	1	No Gas	4108370	0.28	4425209	92.84	70	120	
Bi	209	1	No Gas	4611680	0.24	4898592	94.14	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10MS
Data File Name	185SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:55:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	102.485	102.485	1.03	997763	0.01	2000	
Be	9	1	No Gas	41.848	41.848	1.66	110405	0.04	2000	
V	51	2	He	44.500	44.500	3.90	288238	0.02	2000	
Cr	52	2	He	44.540	44.540	3.60	331672	0.01	2000	
Fe	56	2	He	34786.744	34786.744	4.02	239258583	0.01	200000	
Se	78	2	He	45.538	45.538	4.20	4780	0.95	2000	
As	75	2	He	46.479	46.479	2.82	53668	0.09	2000	
Ca	44	2	He	27420.801	27420.801	3.94	1074366	2.55	200000	
Na	23	2	He	136234.780	136234.780	3.58	137630455	0.10	200000	
Mg	24	2	He	12182.384	12182.384	3.69	7585638	0.16	200000	
K	39	2	He	7073.539	7073.539	2.98	5408488	0.13	200000	
Mn	55	2	He	527.010	527.010	3.89	2943760	0.02	2000	
Co	59	2	He	45.181	45.181	3.95	514480	0.01	2000	
Ni	60	2	He	46.090	46.090	2.95	133202	0.03	2000	
Cu	63	2	He	46.536	46.536	3.24	368973	0.01	2000	
Zn	66	2	He	57.819	57.819	2.99	85609	0.07	2000	
Al	27	2	He	104.693	104.693	3.30	41659	0.25	2000	
B	11	1	No Gas	447.556	447.556	0.90	746265	0.06	2000	
Al	27	1	No Gas	103.583	103.583	1.32	1430609	0.01	2000	
Si	28	1	No Gas	13162.106	13162.106	1.65	88995212	0.01	2000	>LDR
Ag	107	1	No Gas	44.961	44.961	0.56	1027115	0.00	2000	
Cd	111	1	No Gas	45.570	45.570	1.17	208747	0.02	2000	
Sr	88	1	No Gas	383.658	383.658	1.26	16565128	0.00	2000	
Mo	95	1	No Gas	45.609	45.609	0.65	390994	0.01	2000	
Sn	118	1	No Gas	62.539	62.539	1.77	977871	0.01	2000	
Sb	121	1	No Gas	44.726	44.726	0.33	961352	0.00	2000	
Ba	137	1	No Gas	668.400	668.400	1.32	5431112	0.01	2000	
Tl	205	1	No Gas	40.210	40.210	1.31	2220546	0.00	2000	
Tl	203	1	No Gas	40.031	40.031	0.90	935833	0.00	2000	
Pb	208	1	No Gas	44.929	44.929	0.25	3604862	0.00	2000	
U	238	1	No Gas	175.525	175.525	0.88	15704996	0.00	2000	
Ca	43	2	He	27511.700	27511.700	4.06	63331	43.44	200000	
Sb	121	2	He	46.750	46.750	4.17	418971	0.01	2000	
Ti	47	2	He	114.474	114.474	2.35	26051	0.44	2000	
Cu	63	1	No Gas	49.066	49.066	0.76	697485	0.01	2000	
Ca	44	1	No Gas	26678.820	26678.820	1.12	15067230	0.18	200000	
Zn	66	1	No Gas	57.581	57.581	0.80	230147	0.03	2000	
Se	82	1	No Gas	45.576	45.576	3.06	12352	0.37	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	717945	0.63	789601	90.93	70	120	
Ge	72	2	He	830327	1.63	909952	91.25	70	120	
Ge	72	1	No Gas	2833700	0.23	3202767	88.48	70	120	
In	115	1	No Gas	3910438	0.51	4425209	88.37	70	120	
Bi	209	1	No Gas	4292816	0.25	4898592	87.63	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10MSD
Data File Name	186SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:57:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	104.922	104.922	1.39	1016053	0.01	2000	
Be	9	1	No Gas	42.833	42.833	1.61	112519	0.04	2000	
V	51	2	He	45.845	45.845	2.23	291556	0.02	2000	
Cr	52	2	He	46.509	46.509	2.46	339935	0.01	2000	
Fe	56	2	He	35894.139	35894.139	2.69	242559503	0.01	200000	
Se	78	2	He	47.138	47.138	1.32	4858	0.97	2000	
As	75	2	He	47.323	47.323	1.60	53675	0.09	2000	
Ca	44	2	He	28261.438	28261.438	2.26	1087906	2.60	200000	
Na	23	2	He	141910.805	141910.805	1.81	140849638	0.10	200000	
Mg	24	2	He	12661.257	12661.257	1.89	7746148	0.16	200000	
K	39	2	He	7325.417	7325.417	1.87	5499652	0.13	200000	
Mn	55	2	He	543.432	543.432	2.75	2982397	0.02	2000	
Co	59	2	He	47.005	47.005	1.73	525876	0.01	2000	
Ni	60	2	He	48.184	48.184	1.92	136790	0.04	2000	
Cu	63	2	He	48.685	48.685	2.71	379216	0.01	2000	
Zn	66	2	He	58.955	58.955	2.30	85740	0.07	2000	
Al	27	2	He	109.601	109.601	3.84	42805	0.26	2000	
B	11	1	No Gas	458.181	458.181	1.24	760524	0.06	2000	
Al	27	1	No Gas	105.132	105.132	2.42	1460206	0.01	2000	
Si	28	1	No Gas	13254.590	13254.590	1.70	90152779	0.01	2000	>LDR
Ag	107	1	No Gas	44.931	44.931	2.03	1032382	0.00	2000	
Cd	111	1	No Gas	45.968	45.968	1.56	211796	0.02	2000	
Sr	88	1	No Gas	385.323	385.323	1.00	16733953	0.00	2000	
Mo	95	1	No Gas	45.509	45.509	1.41	392394	0.01	2000	
Sn	118	1	No Gas	63.310	63.310	0.94	995635	0.01	2000	
Sb	121	1	No Gas	45.324	45.324	0.96	980047	0.00	2000	
Ba	137	1	No Gas	667.203	667.203	0.88	5452990	0.01	2000	
Tl	205	1	No Gas	40.490	40.490	1.39	2254732	0.00	2000	
Tl	203	1	No Gas	40.557	40.557	0.48	956068	0.00	2000	
Pb	208	1	No Gas	44.905	44.905	0.57	3633365	0.00	2000	
U	238	1	No Gas	177.894	177.894	0.26	16050785	0.00	2000	
Ca	43	2	He	28445.681	28445.681	2.58	64335	44.21	200000	
Sb	121	2	He	48.333	48.333	2.04	425591	0.01	2000	
Ti	47	2	He	119.839	119.839	1.15	26790	0.45	2000	
Cu	63	1	No Gas	50.098	50.098	0.93	716415	0.01	2000	
Ca	44	1	No Gas	26843.283	26843.283	2.02	15250217	0.18	200000	
Zn	66	1	No Gas	57.743	57.743	1.61	232167	0.02	2000	
Se	82	1	No Gas	46.199	46.199	5.57	12589	0.37	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	714854	0.43	789601	90.53	70	120	
Ge	72	2	He	815511	0.49	909952	89.62	70	120	
Ge	72	1	No Gas	2850808	0.65	3202767	89.01	70	120	
In	115	1	No Gas	3933128	0.43	4425209	88.88	70	120	
Bi	209	1	No Gas	4328907	0.81	4898592	88.37	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10PDS
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:00:07-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	20.497	20.497	0.85	235793	0.01	2000	
Be	9	1	No Gas	84.278	84.278	1.60	223177	0.04	2000	
V	51	2	He	90.369	90.369	3.60	578251	0.02	2000	
Cr	52	2	He	89.899	89.899	3.31	661058	0.01	2000	
Fe	56	2	He	39560.668	39560.668	2.74	271939576	0.01	200000	
Se	78	2	He	92.381	92.381	1.76	9592	0.96	2000	
As	75	2	He	93.005	93.005	1.87	107005	0.09	2000	
Ca	44	2	He	31699.759	31699.759	3.14	1241211	2.55	200000	
Na	23	2	He	141888.757	141888.757	2.32	143250611	0.10	200000	
Mg	24	2	He	16898.671	16898.671	2.20	10516209	0.16	200000	
K	39	2	He	11801.979	11801.979	2.41	8960067	0.13	200000	
Mn	55	2	He	577.106	577.106	2.80	3221709	0.02	2000	
Co	59	2	He	91.916	91.916	2.76	1045882	0.01	2000	
Ni	60	2	He	92.262	92.262	2.57	266213	0.03	2000	
Cu	63	2	He	89.523	89.523	2.41	708799	0.01	2000	
Zn	66	2	He	101.750	101.750	2.41	149953	0.07	2000	
Al	27	2	He	102.888	102.888	2.90	40933	0.25	2000	
B	11	1	No Gas	38.848	38.848	2.31	71633	0.05	2000	
Al	27	1	No Gas	99.557	99.557	1.55	1394559	0.01	2000	
Si	28	1	No Gas	12632.915	12632.915	0.82	86556382	0.01	2000	>LDR
Ag	107	1	No Gas	92.551	92.551	0.57	2129809	0.00	2000	
Cd	111	1	No Gas	90.344	90.344	1.25	416959	0.02	2000	
Sr	88	1	No Gas	314.537	314.537	0.47	13682898	0.00	2000	
Mo	95	1	No Gas	89.972	89.972	0.89	776949	0.01	2000	
Sn	118	1	No Gas	0.022	0.022	34.70	7259	0.00	2000	
Sb	121	1	No Gas	87.380	87.380	0.31	1902496	0.00	2000	
Ba	137	1	No Gas	701.716	701.716	0.76	5744485	0.01	2000	
Tl	205	1	No Gas	92.362	92.362	1.08	5129769	0.00	2000	
Tl	203	1	No Gas	92.011	92.011	0.64	2163366	0.00	2000	
Pb	208	1	No Gas	89.669	89.669	0.79	7234906	0.00	2000	
U	238	1	No Gas	0.047	0.047	5.49	5578	0.00	2000	
Ca	43	2	He	31353.453	31353.453	3.75	72130	43.47	200000	
Sb	121	2	He	91.800	91.800	2.68	821977	0.01	2000	
Ti	47	2	He	95.484	95.484	4.32	21714	0.44	2000	
Cu	63	1	No Gas	91.493	91.493	0.26	1316761	0.01	2000	
Ca	44	1	No Gas	30414.960	30414.960	0.31	17403071	0.17	200000	
Zn	66	1	No Gas	100.688	100.688	0.43	406058	0.02	2000	
Se	82	1	No Gas	88.005	88.005	2.91	23825	0.37	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	720719	0.15	789601	91.28	70	120	
Ge	72	2	He	829608	0.90	909952	91.17	70	120	
Ge	72	1	No Gas	2871226	0.90	3202767	89.65	70	120	
In	115	1	No Gas	3939670	0.72	4425209	89.03	70	120	
Bi	209	1	No Gas	4318216	0.54	4898592	88.15	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	189_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:04:59-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.299	1.873	961472	2.23	100	97.3	90	110	
Be	9	1	No Gas	98.121	1.322	262071	1.70	100	98.1	90	110	
V	51	2	He	101.863	0.835	668474	0.96	100	101.9	90	110	
Cr	52	2	He	100.485	1.349	757850	1.47	100	100.5	90	110	
Fe	56	2	He	10036.940	1.467	70860492	1.57	10000	100.4	90	110	
Se	78	2	He	102.148	1.725	10880	1.83	100	102.1	90	110	
As	75	2	He	102.172	1.387	120689	1.52	100	102.2	90	110	
Ca	44	2	He	10145.376	0.779	408276	0.89	10000	101.5	90	110	
Na	23	2	He	9990.018	0.590	10432821	0.63	10000	99.9	90	110	
Mg	24	2	He	10075.223	0.656	6439209	0.73	10000	100.8	90	110	
K	39	2	He	10050.889	0.709	7849283	0.77	10000	100.5	90	110	
Mn	55	2	He	101.094	1.605	579998	1.72	100	101.1	90	110	
Co	59	2	He	102.543	1.014	1198210	1.11	100	102.5	90	110	
Ni	60	2	He	102.756	1.445	304449	1.57	100	102.8	90	110	
Cu	63	2	He	100.233	1.591	814850	1.65	100	100.2	90	110	
Zn	66	2	He	101.653	1.338	153847	1.47	100	101.7	90	110	
Al	27	2	He	100.291	1.792	40996	1.83	100	100.3	90	110	
B	11	1	No Gas	472.275	1.191	796974	1.54	500	94.5	90	110	
Al	27	1	No Gas	100.410	2.136	1446667	1.64	100	100.4	90	110	
Si	28	1	No Gas	500.870	2.628	3693801	2.08	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.082	2.082	2429874	2.31	100	102.1	90	110	
Cd	111	1	No Gas	102.094	2.192	487389	2.48	100	102.1	90	110	
Sr	88	1	No Gas	101.283	1.954	4558660	2.09	100	101.3	90	110	
Mo	95	1	No Gas	99.794	1.749	891382	1.95	100	99.8	90	110	
Sn	118	1	No Gas	101.942	2.073	1656673	2.29	100	101.9	90	110	
Sb	121	1	No Gas	100.753	2.623	2256803	2.17	100	100.8	90	110	
Ba	137	1	No Gas	99.787	1.883	845469	1.98	100	99.8	90	110	
Tl	205	1	No Gas	100.082	2.148	5862908	2.12	100	100.1	90	110	
Tl	203	1	No Gas	100.873	2.441	2501508	2.41	100	100.9	90	110	
Pb	208	1	No Gas	101.025	2.048	8597270	2.00	100	101.0	90	110	
U	238	1	No Gas	100.881	1.755	9577193	1.69	100	100.9	90	110	
Ca	43	2	He	10094.623	0.565	23877	0.45	10000	100.9	90	110	
Sb	121	2	He	103.949	0.238	955837	0.30	100	103.9	90	110	
Ti	47	2	He	102.854	3.289	24021	3.30	100	102.9	90	110	
Cu	63	1	No Gas	102.504	2.491	1517615	2.06	100	102.5	90	110	
Se	82	1	No Gas	98.706	4.181	27438	3.64	100	98.7	90	110	
Zr	90	1	No Gas	90.730	1.554	2536140	1.49	100	90.7	90	110	
Zr	90	2	He	93.838	1.029	1024879	1.16	100	93.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	726926	0.61	789601	92.06	70	120	
Ge	72	2	He	851887	0.14	909952	93.62	70	120	
Ge	72	1	No Gas	2954179	0.50	3202767	92.24	70	120	
In	115	1	No Gas	4074934	0.59	4425209	92.08	70	120	
Bi	209	1	No Gas	4554611	0.12	4898592	92.98	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	190_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:07:23-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.352	6.4	49531	0.6	0.5	
Be	9	1	No Gas	0.022	46.5	105	26.5	0.5	
V	51	2	He	-0.681	-0.8	2351	2.0	2.5	
Cr	52	2	He	-0.280	-10.9	6088	3.9	2.5	
Fe	56	2	He	1.345	9.1	22976	3.6	100	
Se	78	2	He	0.230	74.6	127	14.2	2	
As	75	2	He	-0.034	-65.5	281	10.2	2.5	
Ca	44	2	He	15.412	22.3	1147	11.8	100	
Na	23	2	He	25.117	8.1	109113	1.4	100	
Mg	24	2	He	0.751	39.4	2370	7.7	100	
K	39	2	He	-3.695	-39.7	88117	1.4	100	
Mn	55	2	He	0.118	14.9	1237	8.6	2.5	
Co	59	2	He	0.006	92.1	210	33.3	2.5	
Ni	60	2	He	0.204	8.7	857	5.8	2.5	
Cu	63	2	He	0.070	18.1	1213	8.3	2	
Zn	66	2	He	1.217	1.3	2690	1.5	2.5	
Al	27	2	He	-0.102	-275.9	917	12.6	5	
B	11	1	No Gas	3.724	11.3	13945	5.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.033	-529.4	33176	7.6	5	
Si	28	1	No Gas	13.998	0.8	276044	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.006	39.7	437	13.0	2.5	
Cd	111	1	No Gas	0.001	216.1	-4	-143.8	1	
Sr	88	1	No Gas	-0.010	-14.9	1500	4.7	2.5	
Mo	95	1	No Gas	0.069	22.1	763	18.6	2.5	
Sn	118	1	No Gas	-0.098	-17.1	5805	4.7	5	
Sb	121	1	No Gas	0.053	13.3	1800	9.3	2.5	
Ba	137	1	No Gas	-0.022	-51.2	410	24.8	2.5	
Tl	205	1	No Gas	0.058	56.9	4188	47.9	1	
Tl	203	1	No Gas	0.058	52.3	1797	43.6	1	
Pb	208	1	No Gas	0.009	12.4	3094	3.2	2.5	
U	238	1	No Gas	0.004	70.1	1834	15.1	2.5	
Ca	43	2	He	3.681	68.7	53	10.8	100	
Sb	121	2	He	0.051	8.6	737	5.7	2.5	
Ti	47	2	He	-0.024	-101.3	13	43.3	2.5	
Cu	63	1	No Gas	0.080	10.1	2500	4.8	2.5	
Se	82	1	No Gas	-0.351	-62.6	297	20.3	2	
Zr	90	1	No Gas	0.116	26.9	4441	20.4	2.5	
Zr	90	2	He	0.080	15.3	2364	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	749747	0.42	789601	94.95	70	120	
Ge	72	2	He	868857	0.60	909952	95.48	70	120	
Ge	72	1	No Gas	3037592	0.56	3202767	94.84	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4252361	0.15	4425209	96.09	70	120	
Bi	209	1	No Gas	4756931	0.27	4898592	97.11	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-01
Data File Name	191SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:09:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	294.061	294.061	1.39	2655691	0.01	2000	
Be	9	1	No Gas	0.024	0.024	58.50	102	0.02	2000	
V	51	2	He	-0.237	-0.237	-9.92	5028	0.00	2000	
Cr	52	2	He	4.798	4.798	0.39	42489	0.01	2000	
Fe	56	2	He	5727.157	5727.157	1.28	39175683	0.01	200000	
Se	78	2	He	0.344	0.344	28.93	132	0.26	2000	
As	75	2	He	0.748	0.748	3.58	1160	0.06	2000	
Ca	44	2	He	64070.873	64070.873	0.47	2495169	2.57	200000	
Na	23	2	He	153122.700	153122.700	1.20	153780954	0.10	200000	
Mg	24	2	He	12925.350	12925.350	0.94	8001704	0.16	200000	
K	39	2	He	54438.896	54438.896	0.32	40803944	0.13	200000	
Mn	55	2	He	289.729	289.729	1.03	1609317	0.02	2000	
Co	59	2	He	0.276	0.276	0.28	3247	0.01	2000	
Ni	60	2	He	2.227	2.227	6.03	6618	0.03	2000	
Cu	63	2	He	0.734	0.734	2.00	6378	0.01	2000	
Zn	66	2	He	8.036	8.036	2.39	12499	0.06	2000	
Al	27	2	He	42.932	42.932	2.12	17521	0.25	2000	
B	11	1	No Gas	114.394	114.394	1.11	187316	0.06	2000	
Al	27	1	No Gas	42.578	42.578	2.17	600126	0.01	2000	
Si	28	1	No Gas	12933.516	12933.516	2.27	86524905	0.01	2000	>LDR
Ag	107	1	No Gas	0.030	0.030	11.16	940	0.00	2000	
Cd	111	1	No Gas	0.040	0.040	54.27	174	0.02	2000	
Sr	88	1	No Gas	5720.935	5720.935	0.72	246061510	0.00	2000	>LDR
Mo	95	1	No Gas	0.691	0.691	4.15	6008	0.01	2000	
Sn	118	1	No Gas	0.146	0.146	9.78	9090	0.00	2000	
Sb	121	1	No Gas	0.181	0.181	4.50	4384	0.00	2000	
Ba	137	1	No Gas	375.867	375.867	1.14	3042873	0.01	2000	
Tl	205	1	No Gas	0.010	0.010	7.12	1187	0.00	2000	
Tl	203	1	No Gas	0.009	0.009	12.60	493	0.00	2000	
Pb	208	1	No Gas	0.321	0.321	2.59	28026	0.00	2000	
U	238	1	No Gas	0.051	0.051	4.02	5888	0.00	2000	
Ca	43	2	He	67913.262	67913.262	1.53	155386	43.71	200000	
Sb	121	2	He	0.187	0.187	9.24	1914	0.01	2000	
Ti	47	2	He	1.894	1.894	19.91	447	0.42	2000	
Cu	63	1	No Gas	2.385	2.385	0.80	34681	0.01	2000	
Ca	44	1	No Gas	51096.252	51096.252	2.31	28539687	0.18	200000	
Zn	66	1	No Gas	7.838	7.838	4.05	32937	0.02	2000	
Se	82	1	No Gas	0.210	0.210	39.95	420	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	685767	0.84	789601	86.85	70	120	
Ge	72	2	He	825267	0.90	909952	90.69	70	120	
Ge	72	1	No Gas	2803922	0.63	3202767	87.55	70	120	
In	115	1	No Gas	3895702	0.57	4425209	88.03	70	120	
Bi	209	1	No Gas	4334620	0.35	4898592	88.49	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-02
Data File Name	192SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:12:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	287.709	287.709	1.42	2658607	0.01	2000	
Be	9	1	No Gas	0.021	0.021	14.08	97	0.02	2000	
V	51	2	He	-0.208	-0.208	-9.71	5170	0.00	2000	
Cr	52	2	He	4.602	4.602	1.94	40730	0.01	2000	
Fe	56	2	He	5749.387	5749.387	1.07	38996988	0.01	200000	
Se	78	2	He	0.238	0.238	68.15	120	0.20	2000	
As	75	2	He	0.764	0.764	7.46	1169	0.07	2000	
Ca	44	2	He	63326.705	63326.705	0.33	2445360	2.59	200000	
Na	23	2	He	149480.594	149480.594	0.42	148865671	0.10	200000	
Mg	24	2	He	12677.703	12677.703	0.75	7782701	0.16	200000	
K	39	2	He	53281.881	53281.881	0.41	39600685	0.13	200000	
Mn	55	2	He	286.233	286.233	0.89	1576523	0.02	2000	
Co	59	2	He	0.282	0.282	3.59	3287	0.01	2000	
Ni	60	2	He	1.309	1.309	3.11	3951	0.03	2000	
Cu	63	2	He	0.862	0.862	4.57	7332	0.01	2000	
Zn	66	2	He	8.765	8.765	4.80	13453	0.07	2000	
Al	27	2	He	49.531	49.531	4.55	19908	0.25	2000	
B	11	1	No Gas	111.484	111.484	0.88	186897	0.06	2000	
Al	27	1	No Gas	48.594	48.594	2.17	696672	0.01	2000	
Si	28	1	No Gas	12607.212	12607.212	1.91	86347982	0.01	2000	>LDR
Ag	107	1	No Gas	0.024	0.024	21.57	817	0.00	2000	
Cd	111	1	No Gas	0.029	0.029	13.36	127	0.02	2000	
Sr	88	1	No Gas	5674.683	5674.683	1.06	244469730	0.00	2000	>LDR
Mo	95	1	No Gas	0.705	0.705	2.13	6142	0.01	2000	
Sn	118	1	No Gas	0.276	0.276	8.26	11125	0.00	2000	
Sb	121	1	No Gas	0.148	0.148	2.32	3761	0.00	2000	
Ba	137	1	No Gas	374.032	374.032	1.31	3032834	0.01	2000	
Tl	205	1	No Gas	0.005	0.005	24.43	907	0.00	2000	
Tl	203	1	No Gas	0.004	0.004	100.98	357	0.00	2000	
Pb	208	1	No Gas	0.306	0.306	1.54	26725	0.00	2000	
U	238	1	No Gas	0.051	0.051	5.26	5895	0.00	2000	
Ca	43	2	He	67563.353	67563.353	0.87	153265	44.08	200000	
Sb	121	2	He	0.152	0.152	4.65	1587	0.01	2000	
Ti	47	2	He	2.238	2.238	13.05	520	0.43	2000	
Cu	63	1	No Gas	2.259	2.259	4.37	33685	0.01	2000	
Ca	44	1	No Gas	50254.161	50254.161	1.80	28736010	0.17	200000	
Zn	66	1	No Gas	8.463	8.463	1.55	36228	0.02	2000	
Se	82	1	No Gas	-0.366	-0.366	-40.20	277	-0.13	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	701406	0.28	789601	88.83	70	120	
Ge	72	2	He	818310	1.26	909952	89.93	70	120	
Ge	72	1	No Gas	2870397	0.47	3202767	89.62	70	120	
In	115	1	No Gas	3901970	0.73	4425209	88.18	70	120	
Bi	209	1	No Gas	4314267	0.91	4898592	88.07	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-04
Data File Name	193SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:14:43-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	8.696	8.696	0.90	129768	0.01	2000	
Be	9	1	No Gas	0.070	0.070	26.01	235	0.03	2000	
V	51	2	He	0.545	0.545	8.06	10355	0.01	2000	
Cr	52	2	He	38.394	38.394	1.05	296868	0.01	2000	
Fe	56	2	He	979.428	979.428	0.97	6981194	0.01	200000	
Se	78	2	He	0.162	0.162	90.28	118	0.14	2000	
As	75	2	He	0.157	0.157	20.06	506	0.03	2000	
Ca	44	2	He	11932.835	11932.835	0.99	483897	2.47	200000	
Na	23	2	He	14100.538	14100.538	1.14	14808125	0.10	200000	
Mg	24	2	He	2952.611	2952.611	1.20	1903247	0.16	200000	
K	39	2	He	349.499	349.499	0.44	361926	0.10	200000	
Mn	55	2	He	243.133	243.133	1.06	1405187	0.02	2000	
Co	59	2	He	7.627	7.627	1.74	89945	0.01	2000	
Ni	60	2	He	136.613	136.613	1.76	407877	0.03	2000	
Cu	63	2	He	2.252	2.252	3.23	19063	0.01	2000	
Zn	66	2	He	19.459	19.459	2.65	30337	0.06	2000	
Al	27	2	He	19.378	19.378	6.34	8746	0.22	2000	
B	11	1	No Gas	12.556	12.556	0.64	28986	0.04	2000	
Al	27	1	No Gas	17.503	17.503	1.52	280176	0.01	2000	
Si	28	1	No Gas	19030.979	19030.979	1.39	134534111	0.01	2000	>LDR
Ag	107	1	No Gas	0.052	0.052	10.77	1553	0.00	2000	
Cd	111	1	No Gas	0.254	0.254	14.66	1228	0.02	2000	
Sr	88	1	No Gas	136.246	136.246	1.48	6255566	0.00	2000	
Mo	95	1	No Gas	0.328	0.328	4.87	3107	0.01	2000	
Sn	118	1	No Gas	-0.018	-0.018	-30.17	6989	0.00	2000	
Sb	121	1	No Gas	0.084	0.084	8.32	2457	0.00	2000	
Ba	137	1	No Gas	99.313	99.313	1.29	858472	0.01	2000	
Tl	205	1	No Gas	0.007	0.007	8.34	1093	0.00	2000	
Tl	203	1	No Gas	0.008	0.008	21.65	493	0.00	2000	
Pb	208	1	No Gas	0.081	0.081	3.92	9298	0.00	2000	
U	238	1	No Gas	0.222	0.222	0.56	22978	0.00	2000	
Ca	43	2	He	11852.558	11852.558	1.14	28249	41.96	200000	
Sb	121	2	He	0.091	0.091	2.66	1093	0.01	2000	
Ti	47	2	He	1.069	1.069	20.80	270	0.40	2000	
Cu	63	1	No Gas	2.413	2.413	1.34	37070	0.01	2000	
Ca	44	1	No Gas	11600.711	11600.711	0.91	6861386	0.17	200000	
Zn	66	1	No Gas	18.465	18.465	1.95	78822	0.02	2000	
Se	82	1	No Gas	-0.665	-0.665	-42.62	203	-0.33	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	744870	0.37	789601	94.34	70	120	
Ge	72	2	He	858628	0.75	909952	94.36	70	120	
Ge	72	1	No Gas	2964422	0.13	3202767	92.56	70	120	

Sample Report

In	115	1	No Gas	4157512	0.72	4425209	93.95	70	120	
Bi	209	1	No Gas	4661341	0.44	4898592	95.16	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-09
Data File Name	194SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:17:09-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	59.774	59.774	2.34	572127	0.01	2000	
Be	9	1	No Gas	0.062	0.062	7.30	197	0.03	2000	
V	51	2	He	0.889	0.889	6.46	11856	0.01	2000	
Cr	52	2	He	595.597	595.597	2.27	4221647	0.01	2000	
Fe	56	2	He	29903.371	29903.371	2.45	200156104	0.01	200000	
Se	78	2	He	0.486	0.486	37.01	143	0.34	2000	
As	75	2	He	6.639	6.639	3.98	7716	0.09	2000	
Ca	44	2	He	82645.016	82645.016	2.25	3150174	2.62	200000	
Na	23	2	He	420139.433	420139.433	2.06	412893501	0.10	200000	>LDR
Mg	24	2	He	50482.229	50482.229	2.56	30586382	0.17	200000	
K	39	2	He	1868.872	1868.872	2.42	1452826	0.13	200000	
Mn	55	2	He	1336.199	1336.199	2.67	7262564	0.02	2000	
Co	59	2	He	19.942	19.942	2.64	221044	0.01	2000	
Ni	60	2	He	825.890	825.890	3.13	2318511	0.04	2000	
Cu	63	2	He	22.082	22.082	3.65	170675	0.01	2000	
Zn	66	2	He	10.024	10.024	2.90	15075	0.07	2000	
Al	27	2	He	16.335	16.335	10.42	7075	0.23	2000	
B	11	1	No Gas	55.904	55.904	0.85	94852	0.06	2000	
Al	27	1	No Gas	14.945	14.945	4.02	227684	0.01	2000	
Si	28	1	No Gas	19675.228	19675.228	0.96	129778701	0.02	2000	>LDR
Ag	107	1	No Gas	0.035	0.035	5.91	1033	0.00	2000	
Cd	111	1	No Gas	0.108	0.108	24.95	475	0.02	2000	
Sr	88	1	No Gas	1414.255	1414.255	0.54	59227306	0.00	2000	
Mo	95	1	No Gas	6.226	6.226	1.60	51870	0.01	2000	
Sn	118	1	No Gas	0.502	0.502	7.15	14218	0.00	2000	
Sb	121	1	No Gas	0.114	0.114	1.66	2920	0.00	2000	
Ba	137	1	No Gas	359.821	359.821	0.41	2836320	0.01	2000	
Tl	205	1	No Gas	0.008	0.008	35.75	1007	0.00	2000	
Tl	203	1	No Gas	0.008	0.008	4.07	433	0.00	2000	
Pb	208	1	No Gas	0.192	0.192	2.12	16591	0.00	2000	
U	238	1	No Gas	0.157	0.157	3.08	14626	0.00	2000	
Ca	43	2	He	83095.624	83095.624	2.28	186076	44.66	200000	
Sb	121	2	He	0.110	0.110	4.07	1200	0.01	2000	
Ti	47	2	He	1.381	1.381	9.59	323	0.43	2000	
Cu	63	1	No Gas	29.089	29.089	1.69	404100	0.01	2000	
Ca	44	1	No Gas	77588.749	77588.749	1.69	42748193	0.18	200000	
Zn	66	1	No Gas	9.886	9.886	1.30	40410	0.02	2000	
Se	82	1	No Gas	1.336	1.336	14.03	703	0.19	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	684301	1.28	789601	86.66	70	120	
Ge	72	2	He	807814	0.69	909952	88.78	70	120	
Ge	72	1	No Gas	2766188	0.69	3202767	86.37	70	120	
In	115	1	No Gas	3793023	0.12	4425209	85.71	70	120	
Bi	209	1	No Gas	4088464	1.09	4898592	83.46	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-10
Data File Name	195SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:19:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	62.572	62.572	1.50	606552	0.01	2000	
Be	9	1	No Gas	0.079	0.079	16.48	242	0.03	2000	
V	51	2	He	0.978	0.978	9.41	12234	0.01	2000	
Cr	52	2	He	639.866	639.866	1.39	4472105	0.01	2000	
Fe	56	2	He	31779.543	31779.543	2.40	209771477	0.02	200000	
Se	78	2	He	0.261	0.261	79.57	119	0.22	2000	
As	75	2	He	6.899	6.899	1.84	7897	0.09	2000	
Ca	44	2	He	86469.490	86469.490	2.09	3250353	2.66	200000	
Na	23	2	He	440188.018	440188.018	1.75	426610834	0.10	200000	>LDR
Mg	24	2	He	52788.177	52788.177	1.97	31540689	0.17	200000	
K	39	2	He	1950.707	1950.707	1.62	1491798	0.13	200000	
Mn	55	2	He	1405.710	1405.710	2.38	7534874	0.02	2000	
Co	59	2	He	20.747	20.747	2.57	226780	0.01	2000	
Ni	60	2	He	865.135	865.135	1.90	2395172	0.04	2000	
Cu	63	2	He	22.896	22.896	1.84	174501	0.01	2000	
Zn	66	2	He	9.634	9.634	3.36	14314	0.07	2000	
Al	27	2	He	17.853	17.853	3.92	7545	0.24	2000	
B	11	1	No Gas	57.628	57.628	0.68	99128	0.06	2000	
Al	27	1	No Gas	17.561	17.561	4.73	264242	0.01	2000	
Si	28	1	No Gas	20617.817	20617.817	0.94	137040521	0.02	2000	>LDR
Ag	107	1	No Gas	0.031	0.031	4.10	933	0.00	2000	
Cd	111	1	No Gas	0.124	0.124	14.73	539	0.02	2000	
Sr	88	1	No Gas	1499.221	1499.221	0.81	62372114	0.00	2000	
Mo	95	1	No Gas	6.396	6.396	0.31	52928	0.01	2000	
Sn	118	1	No Gas	0.194	0.194	7.29	9514	0.00	2000	
Sb	121	1	No Gas	0.117	0.117	1.82	3010	0.00	2000	
Ba	137	1	No Gas	379.064	379.064	1.01	2968261	0.01	2000	
Tl	205	1	No Gas	0.009	0.009	2.72	1053	0.00	2000	
Tl	203	1	No Gas	0.009	0.009	22.42	460	0.00	2000	
Pb	208	1	No Gas	0.207	0.207	0.77	17662	0.00	2000	
U	238	1	No Gas	0.169	0.169	2.25	15530	0.00	2000	
Ca	43	2	He	86016.945	86016.945	2.89	189947	45.28	200000	
Sb	121	2	He	0.118	0.118	1.75	1253	0.01	2000	
Ti	47	2	He	1.096	1.096	38.61	257	0.43	2000	
Cu	63	1	No Gas	30.453	30.453	0.58	426317	0.01	2000	
Ca	44	1	No Gas	80744.129	80744.129	0.87	44832886	0.18	200000	
Zn	66	1	No Gas	9.850	9.850	1.74	40580	0.02	2000	
Se	82	1	No Gas	1.121	1.121	49.59	653	0.17	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	695218	0.43	789601	88.05	70	120	
Ge	72	2	He	796608	0.47	909952	87.54	70	120	
Ge	72	1	No Gas	2787566	0.74	3202767	87.04	70	120	
In	115	1	No Gas	3768124	0.53	4425209	85.15	70	120	
Bi	209	1	No Gas	4062927	0.46	4898592	82.94	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	196_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:22:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.762	1.538	1026767	2.14	100	97.8	90	110	
Be	9	1	No Gas	96.896	1.759	275136	2.40	100	96.9	90	110	
V	51	2	He	102.153	1.119	671588	1.27	100	102.2	90	110	
Cr	52	2	He	101.730	0.403	768537	0.68	100	101.7	90	110	
Fe	56	2	He	10251.800	1.213	72510206	1.49	10000	102.5	90	110	
Se	78	2	He	104.535	0.715	11153	1.00	100	104.5	90	110	
As	75	2	He	103.704	1.700	122715	1.71	100	103.7	90	110	
Ca	44	2	He	10378.361	1.442	418410	1.67	10000	103.8	90	110	
Na	23	2	He	10237.128	1.388	10708650	1.64	10000	102.4	90	110	
Mg	24	2	He	10202.055	1.342	6532318	1.64	10000	102.0	90	110	
K	39	2	He	10309.927	1.133	8064044	1.28	10000	103.1	90	110	
Mn	55	2	He	102.624	1.734	589842	1.85	100	102.6	90	110	
Co	59	2	He	104.175	1.049	1219529	1.33	100	104.2	90	110	
Ni	60	2	He	104.333	1.614	309676	1.59	100	104.3	90	110	
Cu	63	2	He	101.801	1.931	829090	1.86	100	101.8	90	110	
Zn	66	2	He	102.566	1.648	155507	1.84	100	102.6	90	110	
Al	27	2	He	102.671	1.064	42023	1.06	100	102.7	90	110	
B	11	1	No Gas	464.428	1.198	833307	1.73	500	92.9	90	110	
Al	27	1	No Gas	102.834	2.142	1522911	2.74	100	102.8	90	110	
Si	28	1	No Gas	514.714	2.049	3898902	2.38	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.306	1.773	2500283	2.23	100	103.3	90	110	
Cd	111	1	No Gas	102.233	1.320	496266	2.26	100	102.2	90	110	
Sr	88	1	No Gas	103.732	1.896	4747094	2.03	100	103.7	90	110	
Mo	95	1	No Gas	100.413	1.317	912004	2.06	100	100.4	90	110	
Sn	118	1	No Gas	102.792	1.169	1698494	1.86	100	102.8	90	110	
Sb	121	1	No Gas	100.345	2.149	2311357	2.02	100	100.3	90	110	
Ba	137	1	No Gas	100.222	0.937	863414	1.54	100	100.2	90	110	
Tl	205	1	No Gas	101.030	1.365	5988579	2.05	100	101.0	90	110	
Tl	203	1	No Gas	100.950	1.237	2533100	2.01	100	101.0	90	110	
Pb	208	1	No Gas	102.134	1.194	8794567	1.90	100	102.1	90	110	
U	238	1	No Gas	101.859	0.821	9784507	1.65	100	101.9	90	110	
Ca	43	2	He	10049.615	1.270	23814	0.93	10000	100.5	90	110	
Sb	121	2	He	104.758	1.497	965061	1.79	100	104.8	90	110	
Ti	47	2	He	106.219	1.892	24853	2.25	100	106.2	90	110	
Cu	63	1	No Gas	104.771	1.196	1595180	1.60	100	104.8	90	110	
Se	82	1	No Gas	101.675	1.602	29055	1.68	100	101.7	90	110	
Zr	90	1	No Gas	92.826	1.716	2638198	1.62	100	92.8	90	110	
Zr	90	2	He	95.782	1.612	1047994	1.74	100	95.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	772787	0.94	789601	97.87	70	120	
Ge	72	2	He	853445	0.36	909952	93.79	70	120	
Ge	72	1	No Gas	3037785	0.97	3202767	94.85	70	120	
In	115	1	No Gas	4143379	1.12	4425209	93.63	70	120	
Bi	209	1	No Gas	4608329	0.96	4898592	94.07	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	197_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:24:33-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.473	8.9	52675	0.9	0.5	
Be	9	1	No Gas	0.015	47.7	88	22.9	0.5	
V	51	2	He	-0.722	-1.3	2120	3.0	2.5	
Cr	52	2	He	-0.249	-8.4	6442	2.8	2.5	
Fe	56	2	He	1.349	1.9	23427	0.5	100	
Se	78	2	He	0.129	2.4	118	0.0	2	
As	75	2	He	-0.073	-32.7	239	12.5	2.5	
Ca	44	2	He	15.372	24.7	1167	13.6	100	
Na	23	2	He	98.677	2.1	190332	1.3	100	
Mg	24	2	He	0.392	76.9	2177	9.5	100	
K	39	2	He	-1.877	-91.3	91213	1.8	100	
Mn	55	2	He	0.124	19.2	1297	11.0	2.5	
Co	59	2	He	0.002	230.4	157	30.2	2.5	
Ni	60	2	He	0.247	6.5	1007	4.7	2.5	
Cu	63	2	He	0.066	11.3	1207	5.3	2	
Zn	66	2	He	1.328	5.5	2914	3.7	2.5	
Al	27	2	He	-0.191	-91.0	897	7.8	5	
B	11	1	No Gas	3.047	20.2	13270	8.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.113	-26.1	32411	0.9	5	
Si	28	1	No Gas	14.180	4.0	280810	1.2	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.005	76.9	403	21.4	2.5	
Cd	111	1	No Gas	0.003	63.2	9	112.0	1	
Sr	88	1	No Gas	-0.005	-86.2	1743	10.6	2.5	
Mo	95	1	No Gas	0.053	19.4	610	15.6	2.5	
Sn	118	1	No Gas	-0.039	-297.3	6753	28.8	5	
Sb	121	1	No Gas	0.048	10.2	1700	6.1	2.5	
Ba	137	1	No Gas	-0.026	-35.9	377	21.5	2.5	
Tl	205	1	No Gas	0.057	51.5	4101	43.6	1	
Tl	203	1	No Gas	0.052	52.2	1640	43.3	1	
Pb	208	1	No Gas	0.006	43.0	2754	8.5	2.5	
U	238	1	No Gas	0.005	12.6	1927	3.5	2.5	
Ca	43	2	He	12.778	17.8	77	7.5	100	
Sb	121	2	He	0.040	22.8	643	13.2	2.5	
Ti	47	2	He	-0.052	-91.9	7	173.2	2.5	
Cu	63	1	No Gas	0.101	9.0	2854	4.7	2.5	
Se	82	1	No Gas	-0.331	-83.4	307	26.2	2	
Zr	90	1	No Gas	0.122	17.7	4604	13.6	2.5	
Zr	90	2	He	0.083	7.7	2447	3.1	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	778787	0.21	789601	98.63	70	120	
Ge	72	2	He	884979	0.29	909952	97.26	70	120	
Ge	72	1	No Gas	3075472	0.53	3202767	96.03	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4227739	0.23	4425209	95.54	70	120	
Bi	209	1	No Gas	4711105	0.42	4898592	96.17	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	204_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:41:38-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.994	1.883	934360	2.02	100	98.0	90	110	
Be	9	1	No Gas	96.763	1.766	249463	2.02	100	96.8	90	110	
V	51	2	He	101.731	0.884	618315	1.80	100	101.7	90	110	
Cr	52	2	He	101.874	0.964	711442	1.36	100	101.9	90	110	
Fe	56	2	He	10263.082	0.812	67104976	1.68	10000	102.6	90	110	
Se	78	2	He	102.090	1.410	10070	0.54	100	102.1	90	110	
As	75	2	He	103.477	1.306	113206	2.49	100	103.5	90	110	
Ca	44	2	He	10240.366	0.940	381676	2.11	10000	102.4	90	110	
Na	23	2	He	10162.204	0.979	9828069	2.16	10000	101.6	90	110	
Mg	24	2	He	10185.584	1.503	6029457	2.64	10000	101.9	90	110	
K	39	2	He	10179.012	1.181	7361684	2.36	10000	101.8	90	110	
Mn	55	2	He	102.276	0.469	543423	1.35	100	102.3	90	110	
Co	59	2	He	104.325	1.015	1129052	2.11	100	104.3	90	110	
Ni	60	2	He	104.598	0.905	287021	2.01	100	104.6	90	110	
Cu	63	2	He	101.666	0.441	765447	1.50	100	101.7	90	110	
Zn	66	2	He	103.144	1.696	144566	2.34	100	103.1	90	110	
Al	27	2	He	103.742	3.795	39255	4.89	100	103.7	90	110	
B	11	1	No Gas	462.158	0.858	752946	1.14	500	92.4	90	110	
Al	27	1	No Gas	101.250	1.703	1372403	1.89	100	101.2	90	110	
Si	28	1	No Gas	503.060	1.935	3490258	1.93	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.529	2.199	2292294	2.67	100	102.5	90	110	
Cd	111	1	No Gas	101.121	2.484	453422	2.92	100	101.1	90	110	
Sr	88	1	No Gas	101.691	2.007	4299076	2.48	100	101.7	90	110	
Mo	95	1	No Gas	99.579	1.575	835434	2.04	100	99.6	90	110	
Sn	118	1	No Gas	101.634	0.815	1551296	1.27	100	101.6	90	110	
Sb	121	1	No Gas	101.110	1.412	2131135	1.53	100	101.1	90	110	
Ba	137	1	No Gas	100.333	0.820	798439	1.28	100	100.3	90	110	
Tl	205	1	No Gas	101.550	1.637	5663647	2.50	100	101.5	90	110	
Tl	203	1	No Gas	101.433	1.231	2394724	2.10	100	101.4	90	110	
Pb	208	1	No Gas	101.671	1.507	8237406	2.42	100	101.7	90	110	
U	238	1	No Gas	101.520	0.409	9175135	1.25	100	101.5	90	110	
Ca	43	2	He	10139.990	1.420	22215	2.51	10000	101.4	90	110	
Sb	121	2	He	107.489	0.642	915388	1.62	100	107.5	90	110	
Ti	47	2	He	105.136	1.526	22742	2.73	100	105.1	90	110	
Cu	63	1	No Gas	103.523	1.260	1442226	1.53	100	103.5	90	110	
Se	82	1	No Gas	101.142	2.138	26446	1.46	100	101.1	90	110	
Zr	90	1	No Gas	91.657	1.572	2406478	2.04	100	91.7	90	110	
Zr	90	2	He	96.211	1.899	973278	3.11	100	96.2	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	701664	0.30	789601	88.86	70	120	
Ge	72	2	He	788954	1.20	909952	86.70	70	120	
Ge	72	1	No Gas	2779620	0.79	3202767	86.79	70	120	
In	115	1	No Gas	3827276	0.47	4425209	86.49	70	120	
Bi	209	1	No Gas	4335807	0.92	4898592	88.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	205_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:44:02-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.436	11.9	47892	0.7	0.5	
Be	9	1	No Gas	0.016	37.5	83	18.3	0.5	
V	51	2	He	-0.724	-1.8	1915	4.2	2.5	
Cr	52	2	He	-0.273	-14.6	5685	5.1	2.5	
Fe	56	2	He	1.463	5.4	22045	2.4	100	
Se	78	2	He	0.244	54.3	119	11.2	2	
As	75	2	He	-0.044	-77.2	249	15.4	2.5	
Ca	44	2	He	15.284	3.5	1057	2.0	100	
Na	23	2	He	80.952	2.7	155582	1.3	100	
Mg	24	2	He	-0.068	-66.7	1700	1.6	100	
K	39	2	He	-4.405	-32.6	81024	1.4	100	
Mn	55	2	He	0.120	7.9	1153	4.4	2.5	
Co	59	2	He	0.005	35.1	183	11.4	2.5	
Ni	60	2	He	0.218	11.8	833	8.5	2.5	
Cu	63	2	He	0.067	16.2	1103	7.5	2	
Zn	66	2	He	1.129	13.5	2364	9.1	2.5	
Al	27	2	He	-0.168	-74.3	823	5.6	5	
B	11	1	No Gas	2.567	22.2	11365	7.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.049	102.7	31834	2.6	5	
Si	28	1	No Gas	14.455	1.4	258799	0.5	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.002	142.3	303	16.3	2.5	
Cd	111	1	No Gas	0.001	182.1	-1	-1065.1	1	
Sr	88	1	No Gas	-0.011	-26.1	1350	8.0	2.5	
Mo	95	1	No Gas	0.062	41.1	643	33.2	2.5	
Sn	118	1	No Gas	-0.104	-17.4	5245	4.6	5	
Sb	121	1	No Gas	0.045	18.9	1497	11.8	2.5	
Ba	137	1	No Gas	-0.027	-25.1	343	16.6	2.5	
Tl	205	1	No Gas	0.060	49.4	4041	41.4	1	
Tl	203	1	No Gas	0.052	48.9	1533	39.7	1	
Pb	208	1	No Gas	0.007	18.2	2647	3.4	2.5	
U	238	1	No Gas	0.003	61.6	1640	11.0	2.5	
Ca	43	2	He	2.478	582.8	47	68.9	100	
Sb	121	2	He	0.033	23.3	523	12.7	2.5	
Ti	47	2	He	-0.064	-40.6	3	173.2	2.5	
Cu	63	1	No Gas	0.081	15.0	2330	7.6	2.5	
Se	82	1	No Gas	-0.294	-146.2	290	38.9	2	
Zr	90	1	No Gas	0.111	35.4	3947	26.0	2.5	
Zr	90	2	He	0.078	14.9	2167	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	713245	0.45	789601	90.33	70	120	
Ge	72	2	He	804010	0.14	909952	88.36	70	120	
Ge	72	1	No Gas	2814154	0.62	3202767	87.87	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	3909399	0.84	4425209	88.34	70	120	
Bi	209	1	No Gas	4425490	0.40	4898592	90.34	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	211_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:58:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.671	2.347	1021112	2.51	100	97.7	90	110	
Be	9	1	No Gas	94.898	2.497	268214	2.73	100	94.9	90	110	
V	51	2	He	102.869	0.640	659426	1.03	100	102.9	90	110	
Cr	52	2	He	102.034	1.071	751602	0.60	100	102.0	90	110	
Fe	56	2	He	10286.069	0.626	70945732	1.66	10000	102.9	90	110	
Se	78	2	He	104.274	0.275	10849	1.71	100	104.3	90	110	
As	75	2	He	104.204	1.602	120242	2.02	100	104.2	90	110	
Ca	44	2	He	10394.613	0.724	408670	1.94	10000	103.9	90	110	
Na	23	2	He	10319.392	0.315	10525788	1.39	10000	103.2	90	110	
Mg	24	2	He	10245.077	0.374	6396809	1.42	10000	102.5	90	110	
K	39	2	He	10375.910	0.798	7913628	1.71	10000	103.8	90	110	
Mn	55	2	He	101.488	0.376	568820	1.17	100	101.5	90	110	
Co	59	2	He	104.648	1.098	1194625	1.78	100	104.6	90	110	
Ni	60	2	He	104.563	0.942	302639	1.08	100	104.6	90	110	
Cu	63	2	He	101.887	0.422	809205	1.54	100	101.9	90	110	
Zn	66	2	He	103.165	1.199	152544	2.70	100	103.2	90	110	
Al	27	2	He	103.303	1.731	41224	1.69	100	103.3	90	110	
B	11	1	No Gas	455.062	1.898	812876	1.98	500	91.0	90	110	
Al	27	1	No Gas	103.873	2.678	1500884	2.90	100	103.9	90	110	
Si	28	1	No Gas	524.161	2.008	3871728	2.24	5000	10.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	105.233	1.136	2471940	0.72	100	105.2	90	110	
Cd	111	1	No Gas	102.309	1.171	481998	1.11	100	102.3	90	110	
Sr	88	1	No Gas	105.234	2.269	4673965	1.64	100	105.2	90	110	
Mo	95	1	No Gas	102.086	1.725	899853	1.21	100	102.1	90	110	
Sn	118	1	No Gas	103.725	1.276	1663451	1.52	100	103.7	90	110	
Sb	121	1	No Gas	101.223	1.343	2275601	1.67	100	101.2	90	110	
Ba	137	1	No Gas	101.544	2.399	849011	1.86	100	101.5	90	110	
Tl	205	1	No Gas	102.238	1.827	5874855	1.81	100	102.2	90	110	
Tl	203	1	No Gas	102.764	2.032	2499715	1.93	100	102.8	90	110	
Pb	208	1	No Gas	102.899	1.364	8589352	1.10	100	102.9	90	110	
U	238	1	No Gas	102.065	1.500	9504515	1.42	100	102.1	90	110	
Ca	43	2	He	10539.374	2.063	24358	3.55	10000	105.4	90	110	
Sb	121	2	He	106.987	0.606	961049	0.92	100	107.0	90	110	
Ti	47	2	He	105.409	2.330	24044	0.85	100	105.4	90	110	
Cu	63	1	No Gas	105.474	1.334	1567237	1.72	100	105.5	90	110	
Se	82	1	No Gas	99.262	4.651	27695	4.99	100	99.3	90	110	
Zr	90	1	No Gas	94.509	2.142	2606967	1.49	100	94.5	90	110	
Zr	90	2	He	97.122	0.396	1036275	1.75	100	97.1	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	769224	0.61	789601	97.42	70	120	
Ge	72	2	He	832265	1.51	909952	91.46	70	120	
Ge	72	1	No Gas	2964622	0.44	3202767	92.56	70	120	
In	115	1	No Gas	4021687	0.94	4425209	90.88	70	120	
Bi	209	1	No Gas	4467681	0.57	4898592	91.20	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	212_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T21:01:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.539	19.4	52548	1.5	0.5	CCB Main CR1 Failed
Be	9	1	No Gas	0.016	30.4	92	15.7	0.5	
V	51	2	He	-0.741	-1.1	1866	2.1	2.5	
Cr	52	2	He	-0.250	-6.6	6035	1.4	2.5	
Fe	56	2	He	1.784	1.9	24966	2.1	100	
Se	78	2	He	0.251	56.2	123	13.0	2	
As	75	2	He	-0.051	-62.3	250	15.0	2.5	
Ca	44	2	He	13.904	15.9	1037	8.4	100	
Na	23	2	He	146.656	2.6	226890	0.6	100	CCB Main CR1 Failed
Mg	24	2	He	0.150	115.2	1890	5.2	100	
K	39	2	He	1.569	95.5	88117	0.3	100	
Mn	55	2	He	0.124	6.0	1217	4.7	2.5	
Co	59	2	He	0.005	41.8	180	11.1	2.5	
Ni	60	2	He	0.211	4.1	840	2.1	2.5	
Cu	63	2	He	0.064	5.5	1113	1.4	2	
Zn	66	2	He	1.229	4.3	2587	3.9	2.5	
Al	27	2	He	0.148	104.8	973	7.2	5	
B	11	1	No Gas	2.043	27.2	11303	8.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.113	49.3	34476	1.6	5	
Si	28	1	No Gas	14.607	4.1	273967	1.1	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.001	179.6	313	19.5	2.5	
Cd	111	1	No Gas	0.001	197.9	-1	-912.1	1	
Sr	88	1	No Gas	0.000	-1393.5	1863	8.6	2.5	
Mo	95	1	No Gas	0.055	8.8	610	7.5	2.5	
Sn	118	1	No Gas	-0.105	-10.9	5435	3.7	5	
Sb	121	1	No Gas	0.037	23.0	1397	13.2	2.5	
Ba	137	1	No Gas	-0.020	-14.7	410	6.5	2.5	
Tl	205	1	No Gas	0.061	49.4	4141	42.1	1	
Tl	203	1	No Gas	0.056	42.4	1643	35.4	1	
Pb	208	1	No Gas	0.006	15.6	2623	3.2	2.5	
U	238	1	No Gas	0.004	21.0	1703	4.4	2.5	
Ca	43	2	He	19.033	102.1	87	53.3	100	
Sb	121	2	He	0.037	27.1	573	15.8	2.5	
Ti	47	2	He	-0.050	-51.2	7	86.6	2.5	
Cu	63	1	No Gas	0.177	4.3	3894	3.1	2.5	
Se	82	1	No Gas	-0.231	-83.2	323	17.0	2	
Zr	90	1	No Gas	0.128	14.1	4588	10.9	2.5	
Zr	90	2	He	0.087	19.4	2334	8.5	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	767261	0.47	789601	97.17	70	120	
Ge	72	2	He	829909	1.31	909952	91.20	70	120	
Ge	72	1	No Gas	2967505	0.70	3202767	92.65	70	120	

Continuing Calibration Blank (CCB) Report

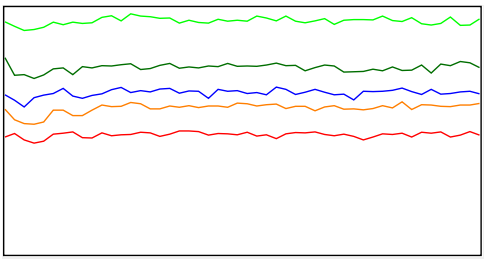
In	115	1	No Gas	4060227	0.43	4425209	91.75	70	120	
Bi	209	1	No Gas	4491873	0.52	4898592	91.70	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq. Date-Time	6/28/2024 9:33:05 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	4844	48435.36		
24	20000	18921	189212.91		
59	50000	32728	327275.41		
115	100000	59215	592154.09		
208	50000	37844	378439.09		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.249	5.000	
24	1.532	5.000	
59	2.266	5.000	
115	3.479	5.000	
208	2.113	5.000	

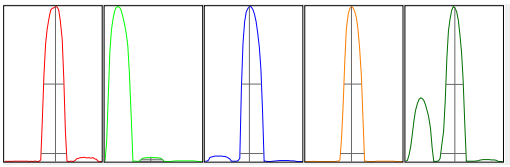
Mass	Background	Background (Required)	Background (Flag)
9	1.500		
24	2.200		
59	1.000		
115	1.400		
208	2.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.088 %
Doubly Charged	70 / 140 0.749 %

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	4928.66	9.10	8.90 - 9.10	
24	19018.93	23.95	23.90 - 24.10	
59	33134.84	58.90	58.90 - 59.10	
115	60732.01	114.95	114.90 - 115.10	
208	37498.26	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779		
24	0.64	0.747		
59	0.61	0.739		
115	0.53	0.727		
208	0.54	0.772		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

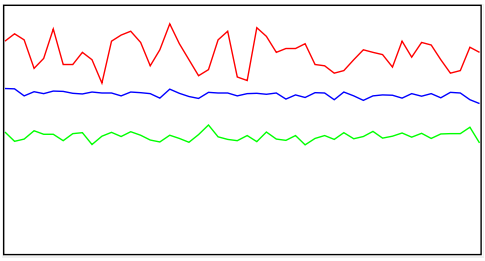
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	162	1621.69		
24	2000	947	9472.56		
59	20000	12875	128750.58		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

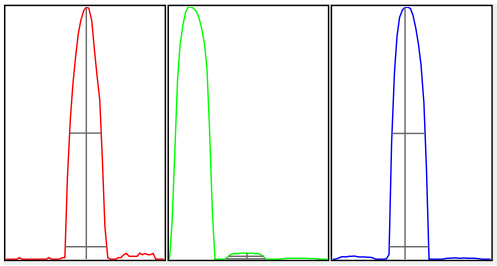
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	7.555	5.000	Fail
24	3.580	5.000	
59	1.910	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.300		
24	0.600		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.534 %
Doubly Charged	70 / 140 0.747 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	172.27	9.05	8.90 - 9.10	
24	918.32	24.00	23.90 - 24.10	
59	13024.31	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.775		
24	0.65	0.744		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.740		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

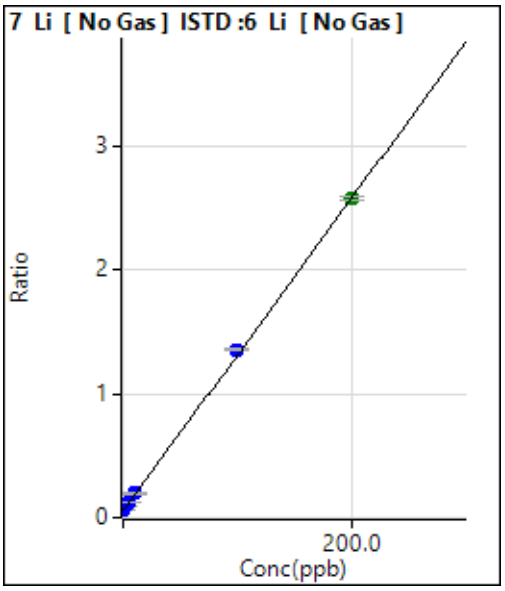
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 245_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

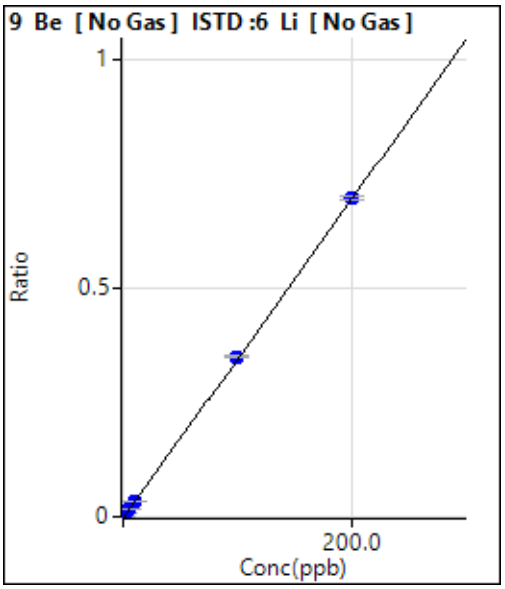
Level	Standard Data File	Sample Name	Acq. Date-Time
1	238CALB.d	CAL BLK	7/1/2024 11:01:34 PM
2	239CALS.d	2/10/200	7/1/2024 11:04:06 PM
3	240CALS.d	5/25/500	7/1/2024 11:06:37 PM
4	241CALS.d	10/50/100	7/1/2024 11:09:08 PM
5	242CALS.d	100/500/10K	7/1/2024 11:11:39 PM
6	243CALS.d	200/1000/20K	7/1/2024 11:14:09 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24881.76	0.0663	P	1.3	
2	☐	2.000	1.821	33078.26	0.0893	P	1.3	-8.9
3	☐	5.000	4.953	47609.17	0.1289	P	0.3	-0.9
4	☐	10.000	10.162	71156.42	0.1948	P	0.7	1.6
5	☐	100.000	102.243	471659.90	1.3593	P	0.9	2.2
6	☐	200.000	198.873	856518.29	2.5813	A	1.0	-0.6

y = 0.0126 * x + 0.0663
R = 0.9999
DL = 0.2065 ppb
BEC = 5.239 ppb

Weight: <None>
Min Conc: <None>

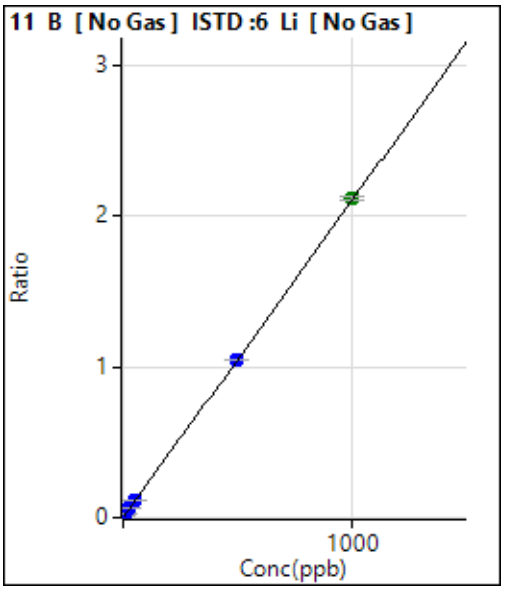


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11.67	0.0000	P	25.4	
2	☐	2.000	1.905	2470.25	0.0067	P	7.7	-4.8
3	☐	5.000	4.797	6186.40	0.0167	P	4.2	-4.1
4	☐	10.000	9.714	12377.11	0.0339	P	3.0	-2.9
5	☐	100.000	100.354	121328.83	0.3496	P	1.5	0.4
6	☐	200.000	199.844	231031.73	0.6963	P	1.3	-0.1

y = 0.0035 * x + 3.1099E-005
R = 1.0000
DL = 0.006813 ppb
BEC = 0.008927 ppb

Weight: <None>
Min Conc: <None>

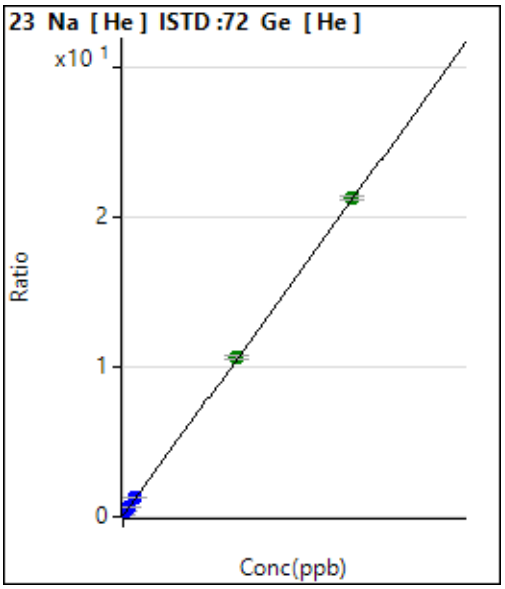
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4138.97	0.0110	P	1.3	
2	☐	10.000	9.325	11332.94	0.0306	P	1.9	-6.8
3	☐	25.000	24.085	22743.28	0.0616	P	0.4	-3.7
4	☐	50.000	50.046	42401.33	0.1161	P	1.1	0.1
5	☐	500.000	493.281	363063.29	1.0463	P	0.3	-1.3
6	☐	1000.000	1003.387	702437.15	2.1170	A	1.0	0.3

y = 0.0021 * x + 0.0110
R = 1.0000
DL = 0.1981 ppb
BEC = 5.251 ppb

Weight: <None>
Min Conc: <None>

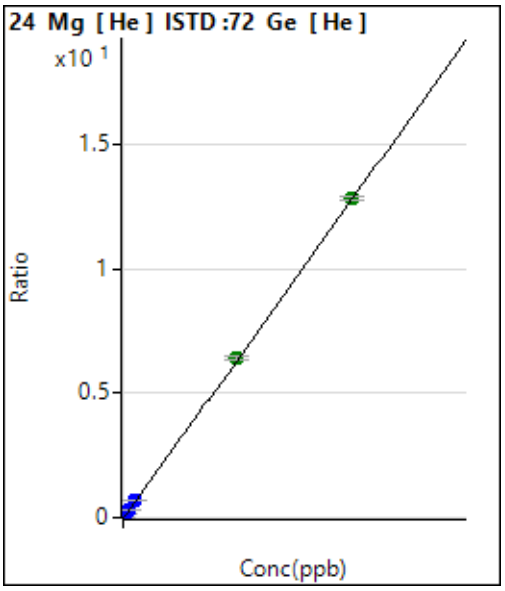


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	89811.84	0.1747	P	2.9	
2	☐	200.000	179.929	188069.36	0.3646	P	2.2	-10.0
3	☐	500.000	467.392	346075.41	0.6679	P	2.3	-6.5
4	☐	1000.000	1000.495	631368.24	1.2303	P	0.9	0.0
5	☐	10000.00	9937.263	5410946.79	10.6593	A	1.5	-0.6
6	☐	20000.00	20032.35	10487071.09	21.3103	A	0.9	0.2

y = 0.0011 * x + 0.1747
R = 1.0000
DL = 14.4 ppb
BEC = 165.6 ppb

Weight: <None>
Min Conc: <None>

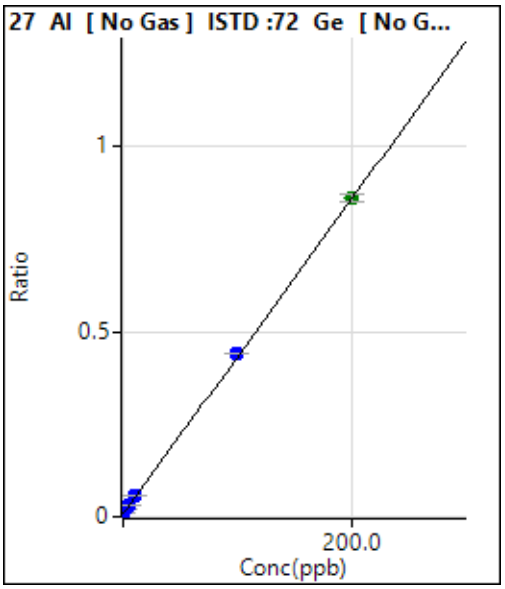
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5004.31	0.0097	P	6.0	
2	☐	200.000	202.027	72013.42	0.1396	P	3.2	1.0
3	☐	500.000	507.386	174048.56	0.3359	P	1.7	1.5
4	☐	1000.000	1049.717	351264.41	0.6845	P	1.4	5.0
5	☐	10000.00	9999.029	3267586.93	6.4369	A	1.7	0.0
6	☐	20000.00	19997.79	6330484.70	12.8639	A	0.7	0.0

y = 6.4278E-004 * x + 0.0097
R = 1.0000
DL = 2.725 ppb
BEC = 15.15 ppb

Weight: <None>
Min Conc: <None>

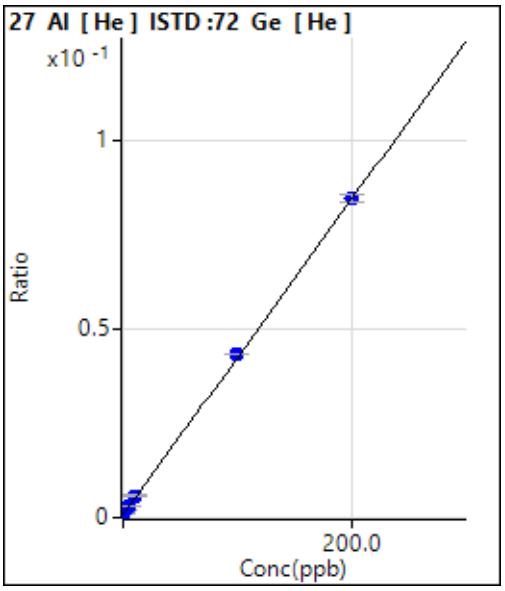


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20188.09	0.0116	P	1.8	
2	☐	2.000	2.108	35765.62	0.0206	P	2.5	5.4
3	☐	5.000	4.882	56168.64	0.0324	P	1.4	-2.4
4	☐	10.000	10.488	96955.90	0.0563	P	2.1	4.9
5	☐	100.000	100.819	736661.00	0.4410	P	1.1	0.8
6	☐	200.000	199.568	1395797.58	0.8616	A	1.8	-0.2

y = 0.0043 * x + 0.0116
R = 1.0000
DL = 0.1465 ppb
BEC = 2.722 ppb

Weight: <None>
Min Conc: <None>

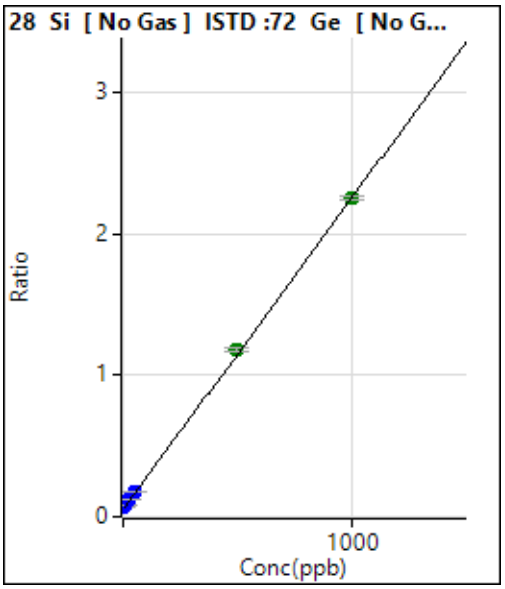
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0012	P	19.3	
2	☐	2.000	2.097	1060.06	0.0021	P	13.4	4.8
3	☐	5.000	4.971	1686.80	0.0033	P	3.2	-0.6
4	☐	10.000	10.985	2960.37	0.0058	P	5.2	9.8
5	☐	100.000	100.817	21980.82	0.0433	P	0.3	0.8
6	☐	200.000	199.542	41605.18	0.0845	P	2.0	-0.2

y = 4.1777E-004 * x + 0.0012
R = 1.0000
DL = 1.633 ppb
BEC = 2.821 ppb

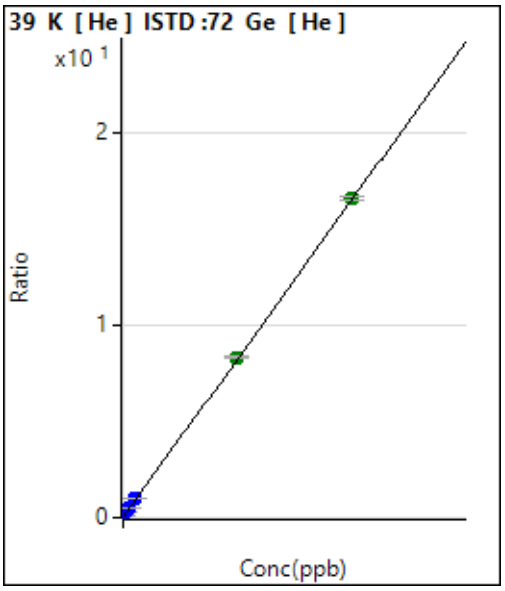
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110360.48	0.0634	P	0.5	
2	☐	10.000	10.432	150090.59	0.0863	P	0.7	4.3
3	☐	25.000	25.465	207096.65	0.1194	P	0.7	1.9
4	☐	50.000	52.207	307142.76	0.1782	P	1.5	4.4
5	☐	500.000	509.214	1977078.04	1.1836	A	1.7	1.8
6	☐	1000.000	995.267	3649629.84	2.2528	A	1.6	-0.5

y = 0.0022 * x + 0.0634
R = 0.9999
DL = 0.4207 ppb
BEC = 28.82 ppb

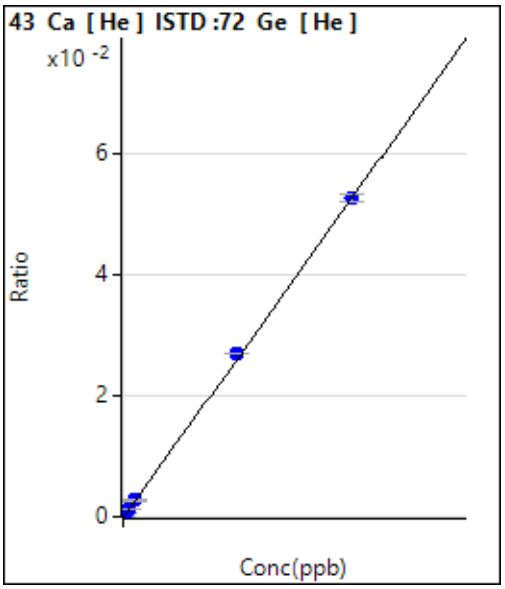
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54275.76	0.1056	P	2.0	
2	☐	200.000	201.446	140026.12	0.2714	P	1.3	0.7
3	☐	500.000	508.889	271815.72	0.5245	P	1.6	1.8
4	☐	1000.000	1057.448	500935.66	0.9761	P	1.1	5.7
5	☐	10000.00	9966.243	4218624.83	8.3102	A	1.0	-0.3
6	☐	20000.00	20013.76	8160084.25	16.5817	A	0.6	0.1

y = 8.2324E-004 * x + 0.1056
R = 1.0000
DL = 7.622 ppb
BEC = 128.3 ppb

Weight: <None>
Min Conc: <None>

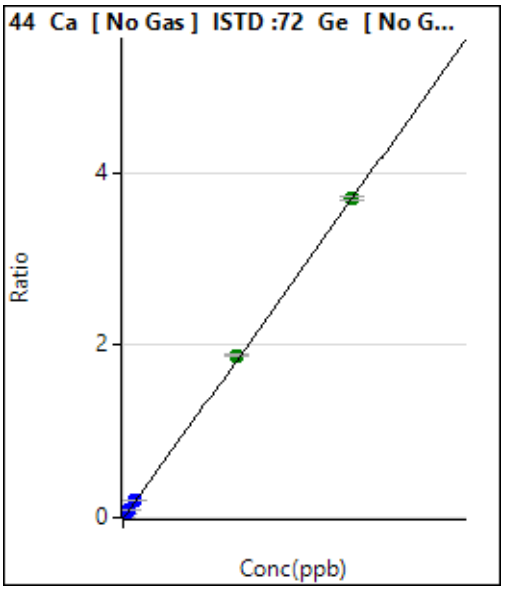


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.8	
2	☐	200.000	195.812	303.34	0.0006	P	29.7	-2.1
3	☐	500.000	426.665	620.03	0.0012	P	7.4	-14.7
4	☐	1000.000	1015.366	1410.10	0.0027	P	9.8	1.5
5	☐	10000.00	10151.71	13626.85	0.0268	P	0.4	1.5
6	☐	20000.00	19925.25	25894.33	0.0526	P	2.7	-0.4

y = 2.6370E-006 * x + 7.1377E-005
R = 0.9999
DL = 25.79 ppb
BEC = 27.07 ppb

Weight: <None>
Min Conc: <None>

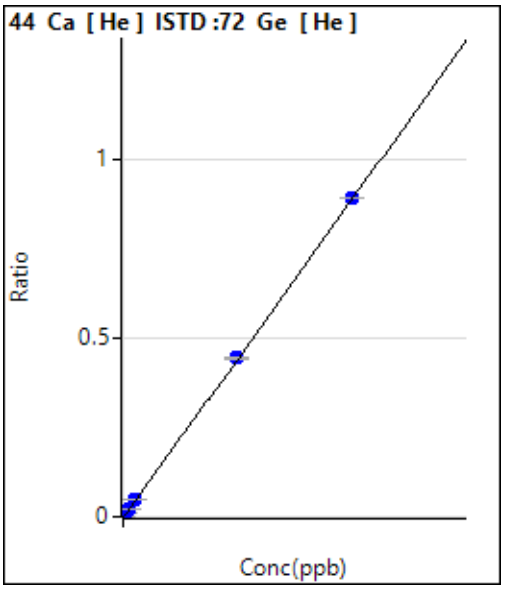
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8139.22	0.0047	P	3.9	
2	☐	200.000	200.474	72699.22	0.0418	P	3.1	0.2
3	☐	500.000	503.485	169906.15	0.0980	P	2.5	0.7
4	☐	1000.000	1033.577	338084.20	0.1962	P	2.0	3.4
5	☐	10000.00	10093.48	3132037.04	1.8750	A	1.2	0.9
6	☐	20000.00	19951.48	5996844.08	3.7017	A	1.7	-0.2

y = 1.8530E-004 * x + 0.0047
R = 1.0000
DL = 2.933 ppb
BEC = 25.23 ppb

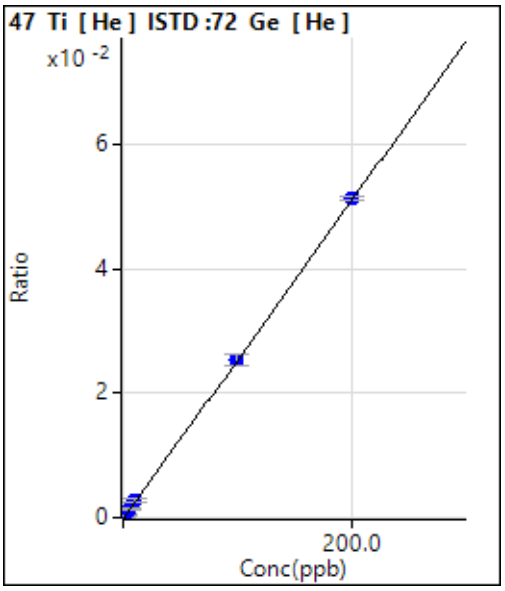
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.01	0.0009	P	7.9	
2	☐	200.000	202.011	5094.36	0.0099	P	6.1	1.0
3	☐	500.000	501.811	12025.37	0.0232	P	1.7	0.4
4	☐	1000.000	1043.037	24261.46	0.0473	P	3.6	4.3
5	☐	10000.00	9957.606	225204.54	0.4436	P	1.6	-0.4
6	☐	20000.00	20018.98	438461.24	0.8910	P	0.5	0.1

y = 4.4462E-005 * x + 8.9464E-004
R = 1.0000
DL = 4.771 ppb
BEC = 20.12 ppb

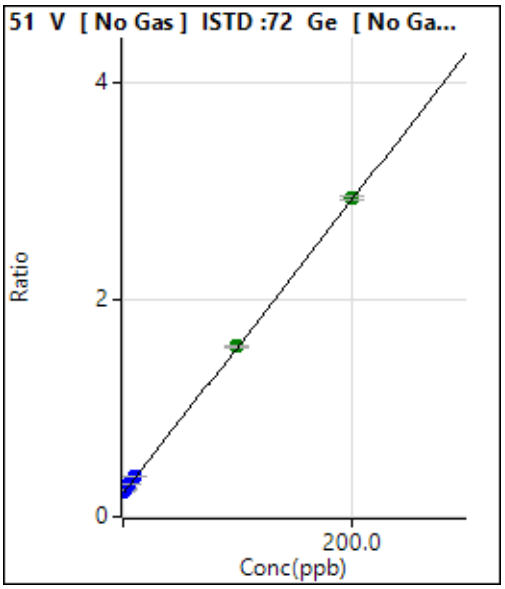
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.812	246.68	0.0005	P	8.5	-9.4
3	☐	5.000	5.111	686.69	0.0013	P	15.5	2.2
4	☐	10.000	10.869	1440.11	0.0028	P	16.4	8.7
5	☐	100.000	99.097	12919.57	0.0255	P	7.0	-0.9
6	☐	200.000	200.407	25330.03	0.0515	P	1.5	0.2

y = 2.5677E-004 * x + 1.3060E-005
R = 1.0000
DL = 0.1321 ppb
BEC = 0.05086 ppb

Weight: <None>
Min Conc: <None>

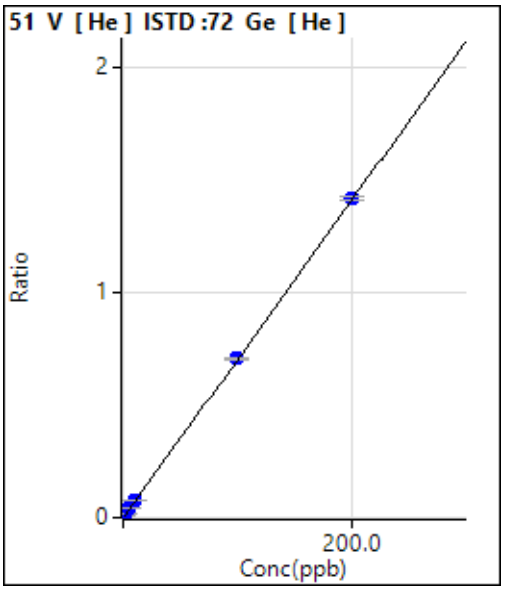


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	399680.88	0.2296	P	1.1	
2	☐	2.000	1.998	446059.52	0.2566	P	0.7	-0.1
3	☐	5.000	4.790	510436.71	0.2943	P	0.7	-4.2
4	☐	10.000	10.396	637735.45	0.3701	P	1.4	4.0
5	☐	100.000	99.137	2621482.02	1.5694	A	1.6	-0.9
6	☐	200.000	200.417	4759850.91	2.9381	A	1.6	0.2

y = 0.0135 * x + 0.2296
R = 1.0000
DL = 0.5565 ppb
BEC = 16.99 ppb

Weight: <None>
Min Conc: <None>

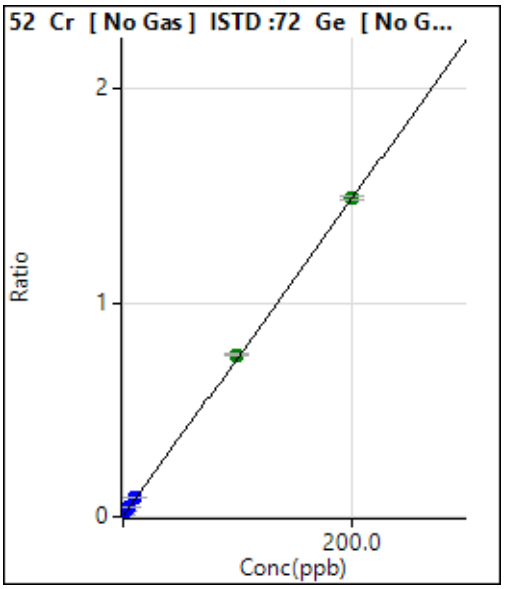
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2788.08	0.0054	P	1.1	
2	☐	2.000	1.936	9842.42	0.0191	P	1.9	-3.2
3	☐	5.000	4.958	20930.26	0.0404	P	0.8	-0.8
4	☐	10.000	10.368	40305.06	0.0785	P	1.6	3.7
5	☐	100.000	99.407	358614.45	0.7064	P	1.7	-0.6
6	☐	200.000	200.280	697718.01	1.4178	P	0.9	0.1

y = 0.0071 * x + 0.0054
R = 1.0000
DL = 0.02536 ppb
BEC = 0.7691 ppb

Weight: <None>
Min Conc: <None>

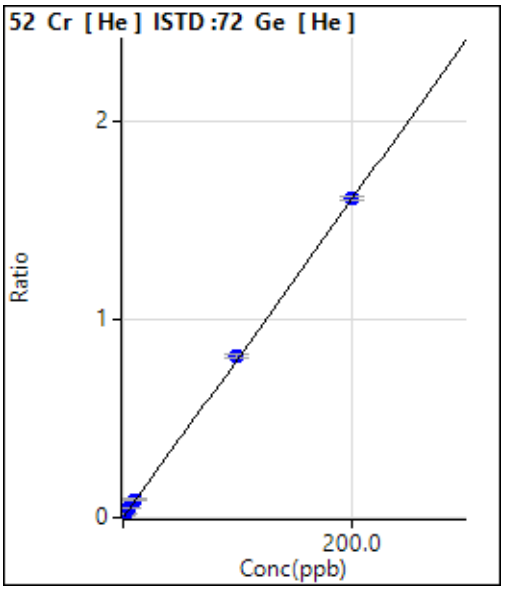


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17070.79	0.0098	P	3.6	
2	☐	2.000	1.900	41552.55	0.0239	P	1.8	-5.0
3	☐	5.000	5.065	82172.81	0.0474	P	2.3	1.3
4	☐	10.000	10.418	150068.83	0.0871	P	2.1	4.2
5	☐	100.000	100.615	1263137.14	0.7562	A	1.2	0.6
6	☐	200.000	199.671	2415473.77	1.4910	A	1.7	-0.2

y = 0.0074 * x + 0.0098
R = 1.0000
DL = 0.1434 ppb
BEC = 1.322 ppb

Weight: <None>
Min Conc: <None>

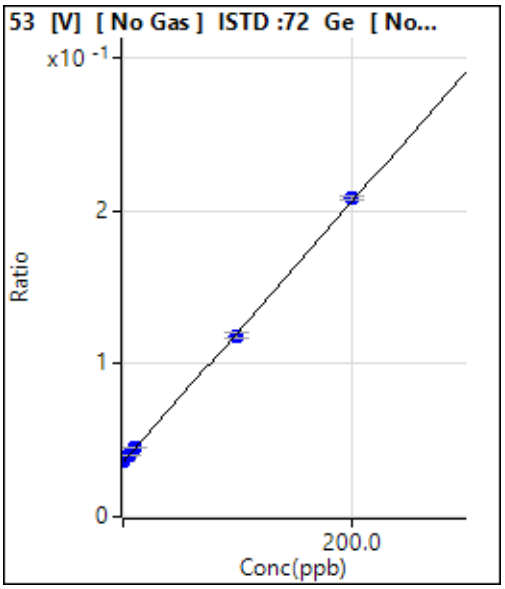
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3693.89	0.0072	P	4.8	
2	☐	2.000	2.044	12165.51	0.0236	P	4.4	2.2
3	☐	5.000	5.010	24541.95	0.0474	P	0.7	0.2
4	☐	10.000	10.499	46885.84	0.0914	P	1.6	5.0
5	☐	100.000	100.413	412368.24	0.8124	P	2.0	0.4
6	☐	200.000	199.768	791829.21	1.6090	P	1.3	-0.1

y = 0.0080 * x + 0.0072
R = 1.0000
DL = 0.1282 ppb
BEC = 0.8966 ppb

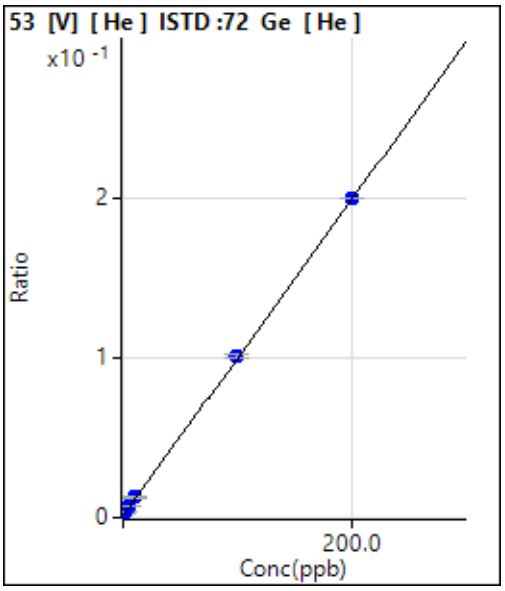
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64138.26	0.0368	P	2.0	
2	☐	2.000	2.409	67615.02	0.0389	P	1.4	20.4
3	☐	5.000	4.323	70278.36	0.0405	P	1.4	-13.5
4	☐	10.000	10.056	78234.27	0.0454	P	1.6	0.6
5	☐	100.000	96.195	198261.10	0.1187	P	2.4	-3.8
6	☐	200.000	201.912	338010.49	0.2086	P	1.4	1.0

y = 8.5087E-004 * x + 0.0368
R = 0.9997
DL = 2.596 ppb
BEC = 43.3 ppb

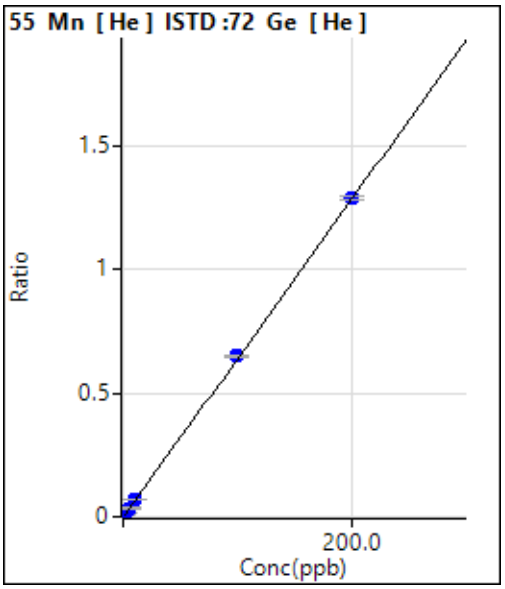
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0022	P	8.5	
2	☐	2.000	1.925	2116.87	0.0041	P	3.1	-3.8
3	☐	5.000	4.958	3677.22	0.0071	P	6.8	-0.8
4	☐	10.000	10.618	6504.99	0.0127	P	6.8	6.2
5	☐	100.000	100.151	51275.22	0.1010	P	1.8	0.2
6	☐	200.000	199.895	98132.61	0.1994	P	0.5	-0.1

y = 9.8655E-004 * x + 0.0022
R = 1.0000
DL = 0.5725 ppb
BEC = 2.235 ppb

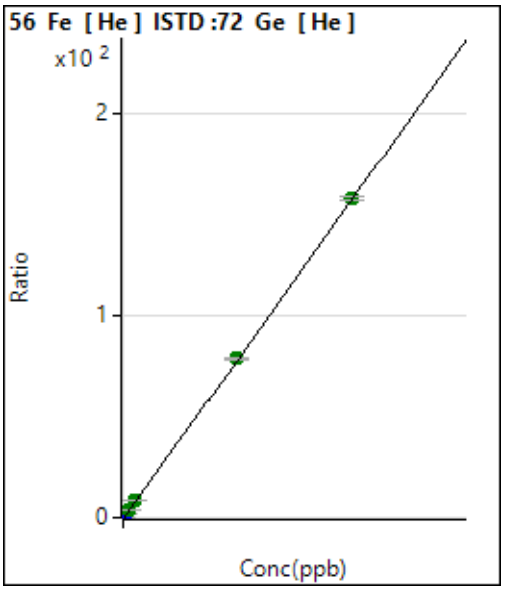
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2060.19	0.0040	P	5.6	
2	☐	2.000	2.032	8809.60	0.0171	P	2.6	1.6
3	☐	5.000	4.772	17981.97	0.0347	P	2.2	-4.6
4	☐	10.000	10.370	36281.17	0.0707	P	1.9	3.7
5	☐	100.000	100.234	329327.39	0.6487	P	1.4	0.2
6	☐	200.000	199.870	634661.59	1.2897	P	0.8	-0.1

y = 0.0064 * x + 0.0040
R = 1.0000
DL = 0.1049 ppb
BEC = 0.6228 ppb

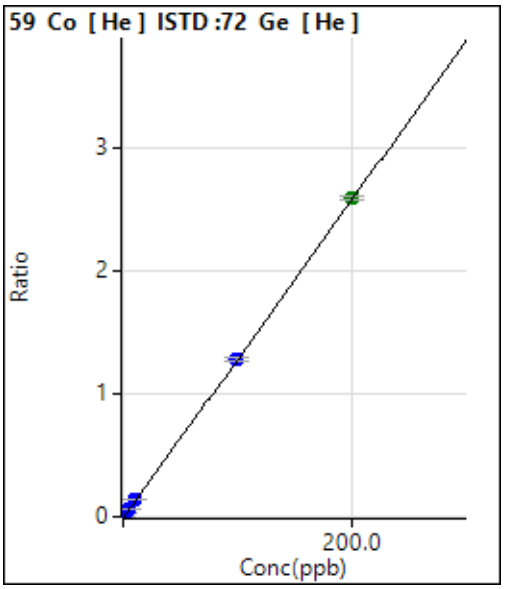
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8973.05	0.0175	P	5.9	
2	☐	200.000	196.029	809359.60	1.5689	P	1.2	-2.0
3	☐	500.000	502.275	2068938.51	3.9926	A	2.5	0.5
4	☐	1000.000	1046.301	4258503.17	8.2983	A	1.1	4.6
5	☐	10000.00	9974.741	40083851.90	78.9612	A	1.4	-0.3
6	☐	20000.00	20010.29	77945733.84	158.386	A	1.0	0.1

y = 0.0079 * x + 0.0175
R = 1.0000
DL = 0.3925 ppb
BEC = 2.206 ppb

Weight: <None>
Min Conc: <None>

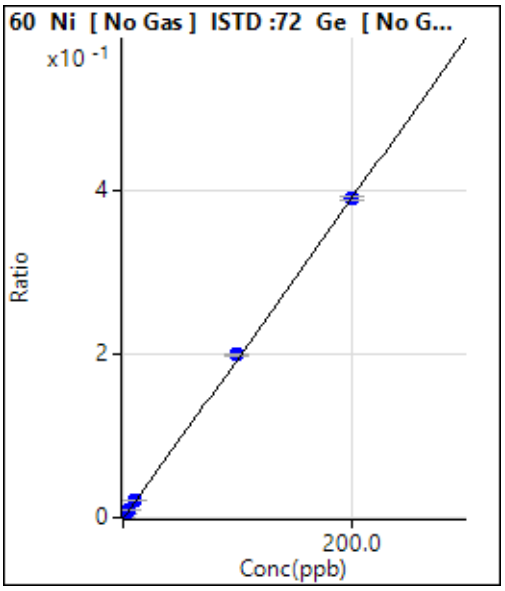


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	19.3	
2	☐	2.000	1.968	13209.81	0.0256	P	1.6	-1.6
3	☐	5.000	5.070	34092.34	0.0658	P	0.6	1.4
4	☐	10.000	10.466	69622.04	0.1357	P	0.9	4.7
5	☐	100.000	99.197	652245.51	1.2848	P	1.8	-0.8
6	☐	200.000	200.377	1277155.03	2.5952	A	0.7	0.2

y = 0.0130 * x + 1.2341E-004
R = 1.0000
DL = 0.005507 ppb
BEC = 0.009528 ppb

Weight: <None>
Min Conc: <None>

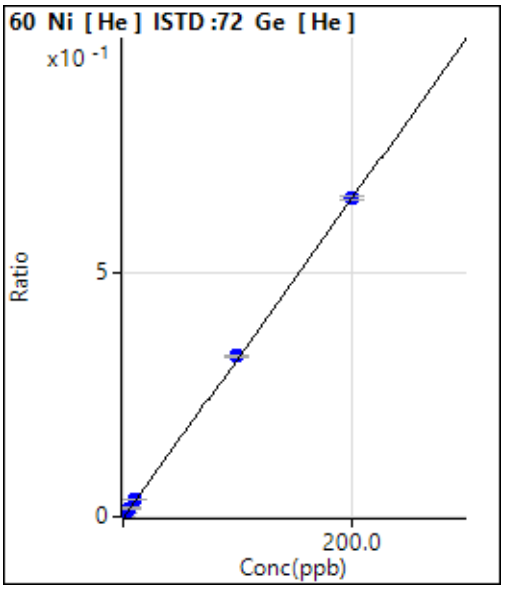
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0002	P	0.5	
2	☐	2.000	2.078	7512.15	0.0043	P	2.2	3.9
3	☐	5.000	5.117	17855.09	0.0103	P	1.4	2.3
4	☐	10.000	10.671	36558.80	0.0212	P	0.9	6.7
5	☐	100.000	101.682	334332.01	0.2001	P	1.2	1.7
6	☐	200.000	199.122	634606.98	0.3917	P	0.8	-0.4

y = 0.0020 * x + 2.3551E-004
R = 0.9999
DL = 0.0019 ppb
BEC = 0.1198 ppb

Weight: <None>
Min Conc: <None>

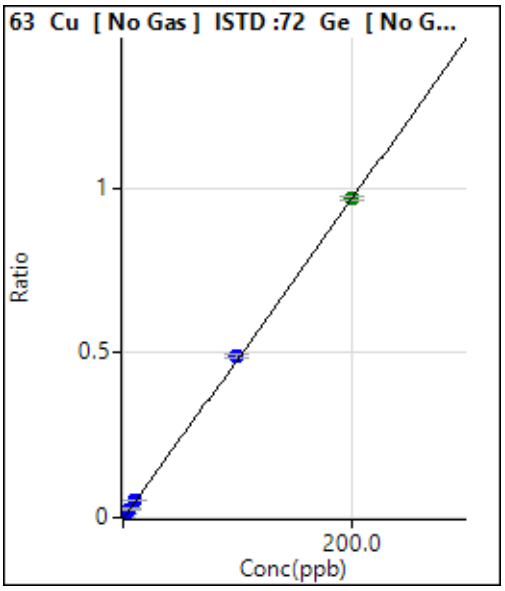


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	19.6	
2	☐	2.000	1.992	3473.85	0.0067	P	3.0	-0.4
3	☐	5.000	5.198	8933.07	0.0172	P	8.1	4.0
4	☐	10.000	10.924	18475.98	0.0360	P	1.2	9.2
5	☐	100.000	100.777	167749.85	0.3305	P	1.4	0.8
6	☐	200.000	199.561	321933.79	0.6542	P	0.9	-0.2

y = 0.0033 * x + 2.0752E-004
R = 1.0000
DL = 0.03717 ppb
BEC = 0.06333 ppb

Weight: <None>
Min Conc: <None>

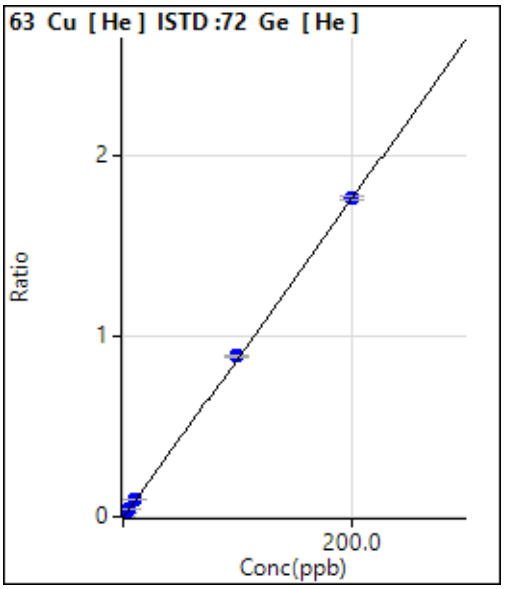
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1210.07	0.0007	P	15.7	
2	☐	2.000	2.084	18796.43	0.0108	P	3.6	4.2
3	☐	5.000	5.253	45445.21	0.0262	P	1.7	5.1
4	☐	10.000	10.539	89386.02	0.0519	P	1.3	5.4
5	☐	100.000	100.994	820408.81	0.4911	P	1.9	1.0
6	☐	200.000	199.469	1570343.62	0.9693	A	1.1	-0.3

y = 0.0049 * x + 6.9541E-004
R = 1.0000
DL = 0.06738 ppb
BEC = 0.1432 ppb

Weight: <None>
Min Conc: <None>

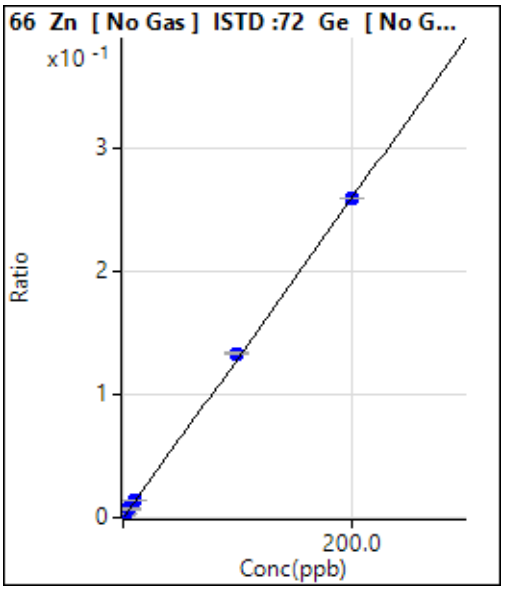


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	490.02	0.0010	P	15.2	
2	☐	2.000	2.102	10090.54	0.0196	P	2.7	5.1
3	☐	5.000	5.160	24164.77	0.0466	P	2.2	3.2
4	☐	10.000	10.561	48468.79	0.0945	P	2.4	5.6
5	☐	100.000	100.659	452889.35	0.8921	P	1.2	0.7
6	☐	200.000	199.637	870302.41	1.7685	P	1.1	-0.2

y = 0.0089 * x + 9.5232E-004
R = 1.0000
DL = 0.04906 ppb
BEC = 0.1076 ppb

Weight: <None>
Min Conc: <None>

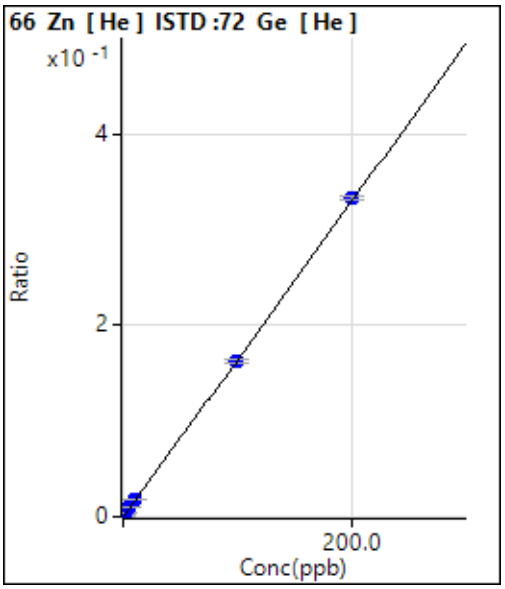
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1556.78	0.0009	P	7.9	
2	☐	2.000	2.081	6244.87	0.0036	P	2.3	4.1
3	☐	5.000	4.922	12616.00	0.0073	P	8.5	-1.6
4	☐	10.000	10.358	24679.09	0.0143	P	2.5	3.6
5	☐	100.000	101.917	222192.61	0.1330	P	1.8	1.9
6	☐	200.000	199.024	419430.32	0.2589	P	0.6	-0.5

y = 0.0013 * x + 8.9412E-004
R = 0.9999
DL = 0.1643 ppb
BEC = 0.6897 ppb

Weight: <None>
Min Conc: <None>

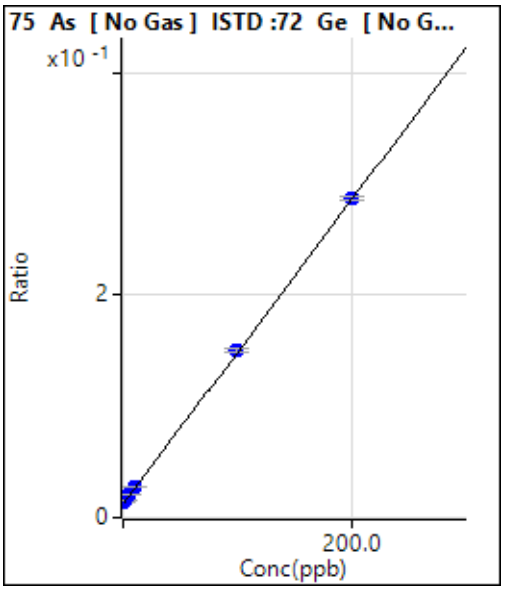


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0011	P	20.1	
2	☐	2.000	1.876	2150.22	0.0042	P	4.1	-6.2
3	☐	5.000	5.226	5024.34	0.0097	P	8.7	4.5
4	☐	10.000	10.179	9169.91	0.0179	P	1.7	1.8
5	☐	100.000	97.671	82366.08	0.1623	P	2.6	-2.3
6	☐	200.000	201.151	163898.57	0.3330	P	1.2	0.6

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.391 ppb
BEC = 0.6493 ppb

Weight: <None>
Min Conc: <None>

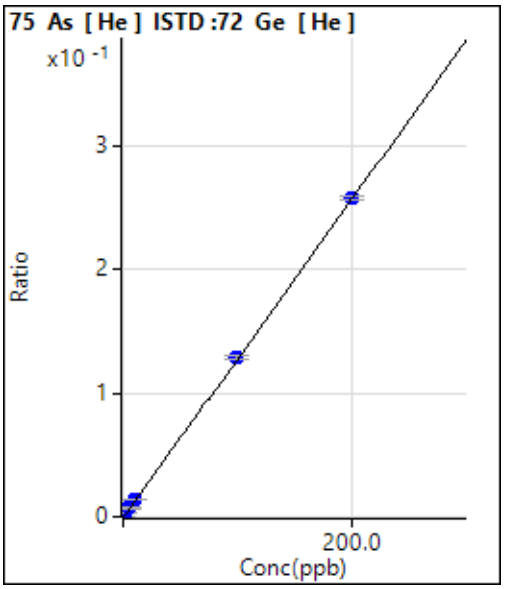
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23554.11	0.0135	P	1.5	
2	☐	2.000	1.763	27711.97	0.0159	P	0.2	-11.8
3	☐	5.000	4.735	34691.19	0.0200	P	0.8	-5.3
4	☐	10.000	10.001	46877.45	0.0272	P	0.5	0.0
5	☐	100.000	100.126	251255.67	0.1504	P	1.5	0.1
6	☐	200.000	199.946	464753.97	0.2869	P	1.1	0.0

y = 0.0014 * x + 0.0135
R = 1.0000
DL = 0.4394 ppb
BEC = 9.897 ppb

Weight: <None>
Min Conc: <None>

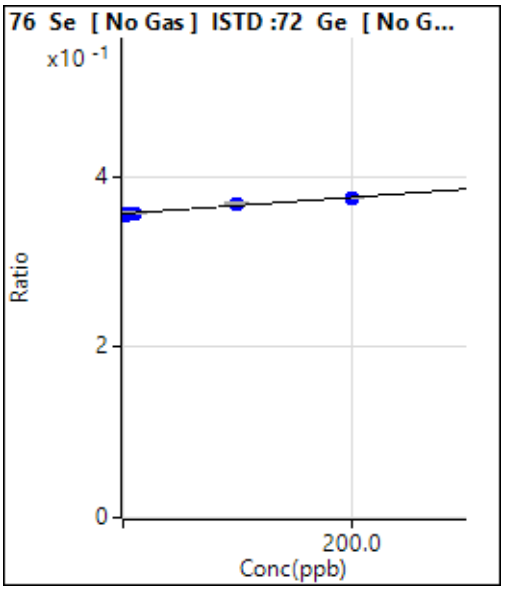


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	171.11	0.0003	P	32.7	
2	☐	2.000	1.910	1438.97	0.0028	P	2.8	-4.5
3	☐	5.000	5.183	3626.05	0.0070	P	5.1	3.7
4	☐	10.000	10.333	6988.48	0.0136	P	1.1	3.3
5	☐	100.000	99.975	65417.87	0.1289	P	1.7	0.0
6	☐	200.000	199.992	126703.49	0.2575	P	1.3	0.0

y = 0.0013 * x + 3.3353E-004
R = 1.0000
DL = 0.2548 ppb
BEC = 0.2594 ppb

Weight: <None>
Min Conc: <None>

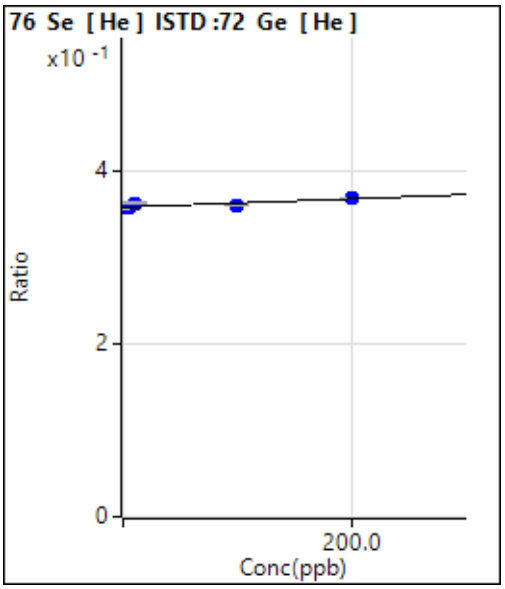
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620746.98	0.3566	P	0.7	
2	☐	2.000	-16.180	617139.69	0.3550	P	0.5	-909.0
3	☐	5.000	1.588	618669.44	0.3567	P	0.3	-68.2
4	☐	10.000	3.513	615030.53	0.3569	P	0.5	-64.9
5	☐	100.000	127.602	616172.95	0.3689	P	0.4	27.6
6	☐	200.000	186.791	606831.40	0.3746	P	0.6	-6.6

y = 9.6464E-005 * x + 0.3566
R = 0.9822
DL = 73.71 ppb
BEC = 3696 ppb

Weight: <None>
Min Conc: <None>

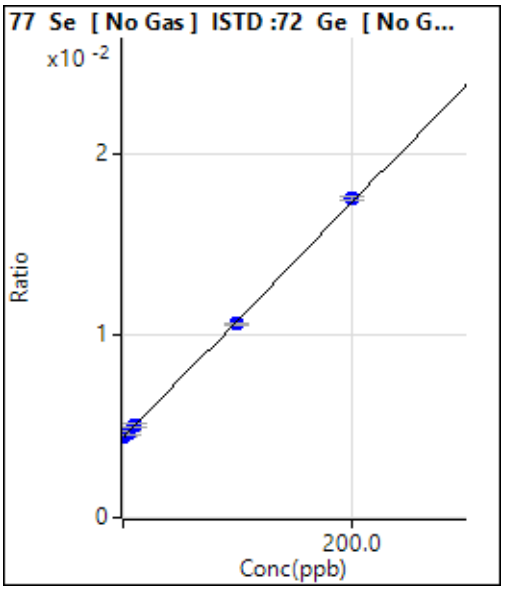


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	184261.38	0.3585	P	0.8	
2	☐	2.000	9.971	185182.72	0.3590	P	0.7	398.5
3	☐	5.000	12.707	186088.79	0.3591	P	1.5	154.1
4	☐	10.000	97.701	186422.65	0.3633	P	1.0	877.0
5	☐	100.000	53.699	183334.65	0.3611	P	0.3	-46.3
6	☐	200.000	218.493	181712.84	0.3693	P	0.3	9.2

y = 4.9310E-005 * x + 0.3585
R = 0.8629
DL = 168.1 ppb
BEC = 7270 ppb

Weight: <None>
Min Conc: <None>

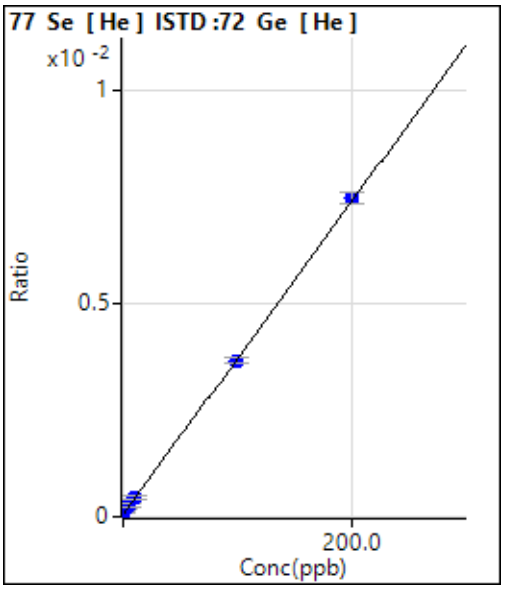
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7802.35	0.0045	P	2.9	
2	☐	2.000	0.366	7832.39	0.0045	P	1.8	-81.7
3	☐	5.000	2.954	8102.55	0.0047	P	3.4	-40.9
4	☐	10.000	9.181	8743.01	0.0051	P	2.7	-8.2
5	☐	100.000	95.244	17741.75	0.0106	P	0.6	-4.8
6	☐	200.000	202.486	28406.57	0.0175	P	1.4	1.2

y = 6.4464E-005 * x + 0.0045
R = 0.9996
DL = 6.115 ppb
BEC = 69.52 ppb

Weight: <None>
Min Conc: <None>

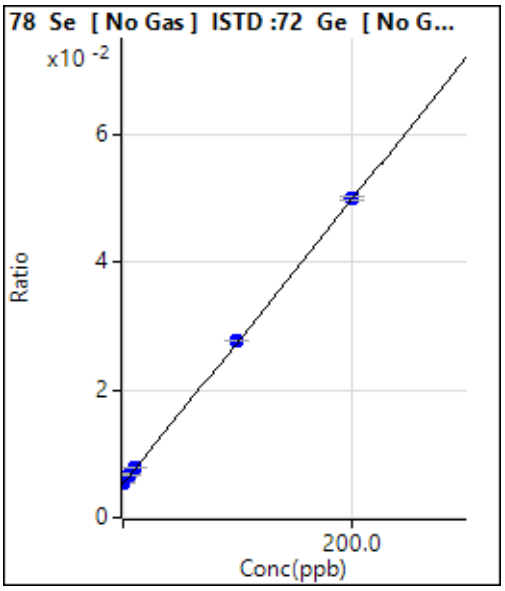


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	49.4	
2	☐	2.000	2.812	100.00	0.0002	P	9.9	40.6
3	☐	5.000	5.068	143.33	0.0003	P	21.2	1.4
4	☐	10.000	9.382	223.34	0.0004	P	19.3	-6.2
5	☐	100.000	97.466	1860.17	0.0037	P	2.7	-2.5
6	☐	200.000	201.288	3677.23	0.0075	P	4.0	0.6

y = 3.6666E-005 * x + 9.0732E-005
R = 0.9999
DL = 3.666 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

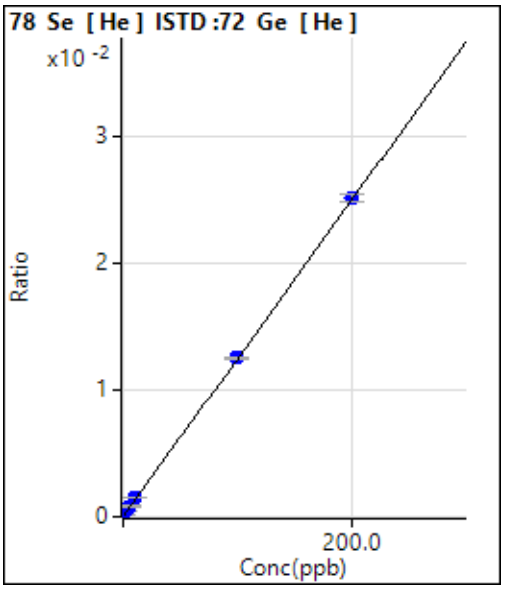
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9623.58	0.0055	P	2.7	
2	☐	2.000	3.936	11128.10	0.0064	P	6.3	96.8
3	☐	5.000	5.524	11715.22	0.0068	P	0.6	10.5
4	☐	10.000	10.672	13610.34	0.0079	P	1.1	6.7
5	☐	100.000	99.859	46275.31	0.0277	P	0.2	-0.1
6	☐	200.000	200.004	80906.15	0.0499	P	1.5	0.0

y = 2.2206E-004 * x + 0.0055
R = 1.0000
DL = 2.03 ppb
BEC = 24.9 ppb

Weight: <None>
Min Conc: <None>

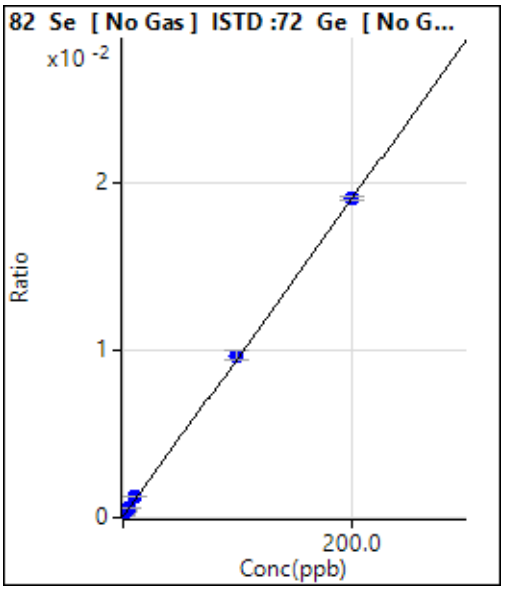


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	4.4	
2	☐	2.000	2.330	223.33	0.0004	P	8.6	16.5
3	☐	5.000	5.517	430.01	0.0008	P	7.4	10.3
4	☐	10.000	10.547	747.35	0.0015	P	1.9	5.5
5	☐	100.000	99.188	6344.16	0.0125	P	1.5	-0.8
6	☐	200.000	200.362	12352.94	0.0251	P	2.7	0.2

y = 1.2456E-004 * x + 1.4262E-004
R = 1.0000
DL = 0.1515 ppb
BEC = 1.145 ppb

Weight: <None>
Min Conc: <None>

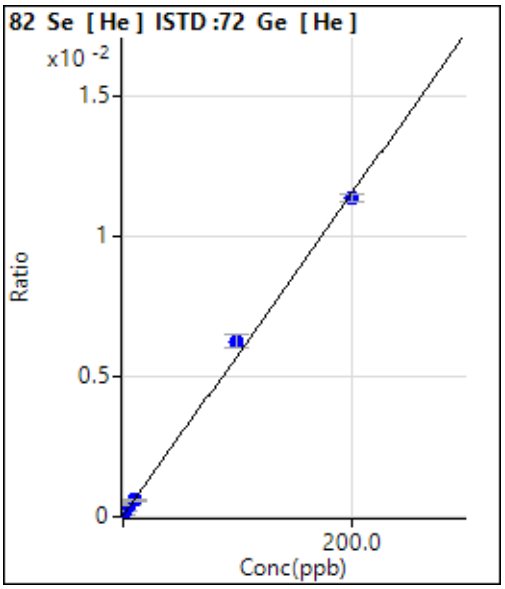
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0002	P	30.3	
2	☐	2.000	2.386	656.70	0.0004	P	16.6	19.3
3	☐	5.000	4.677	1033.39	0.0006	P	6.4	-6.5
4	☐	10.000	11.576	2156.88	0.0013	P	4.6	15.8
5	☐	100.000	100.738	16249.98	0.0097	P	5.8	0.7
6	☐	200.000	199.557	30982.30	0.0191	P	1.1	-0.2

y = 9.5077E-005 * x + 1.5117E-004
R = 1.0000
DL = 1.444 ppb
BEC = 1.59 ppb

Weight: <None>
Min Conc: <None>

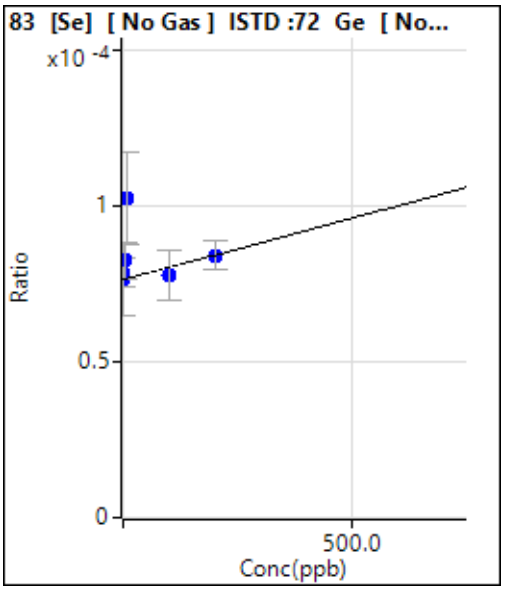


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	26.5	
2	☐	2.000	2.357	113.33	0.0002	P	13.7	17.9
3	☐	5.000	6.261	230.01	0.0004	P	26.6	25.2
4	☐	10.000	8.932	306.68	0.0006	P	15.2	-10.7
5	☐	100.000	107.496	3177.11	0.0063	P	7.6	7.5
6	☐	200.000	196.270	5591.25	0.0114	P	2.0	-1.9

y = 5.7459E-005 * x + 8.4280E-005
R = 0.9990
DL = 1.166 ppb
BEC = 1.467 ppb

Weight: <None>
Min Conc: <None>

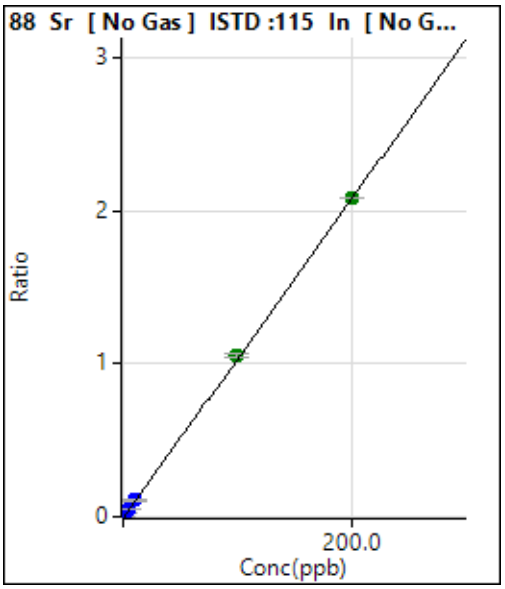
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.33	0.0001	P	29.8	
2	☐	2.000	53.963	136.67	0.0001	P	11.9	2598.1
3	☐	5.000	153.632	143.34	0.0001	P	14.3	2972.6
4	☐	10.000	655.357	176.67	0.0001	P	28.8	6453.6
5	☐	100.000	32.849	130.00	0.0001	P	20.3	-67.2
6	☐	200.000	197.072	136.67	0.0001	P	11.1	-1.5

y = 3.9785E-008 * x + 7.6515E-005
R = -0.0765
DL = 1719 ppb
BEC = 1923 ppb

Weight: <None>
Min Conc: <None>

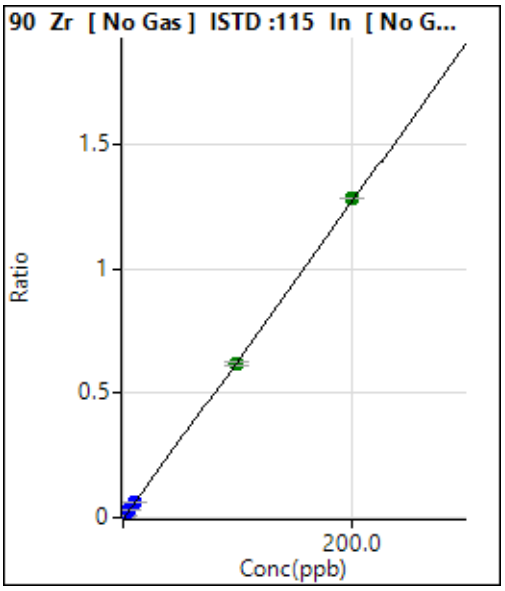


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2263.57	0.0008	P	8.2	
2	☐	2.000	1.970	60073.19	0.0214	P	1.9	-1.5
3	☐	5.000	5.039	149433.19	0.0534	P	1.7	0.8
4	☐	10.000	10.201	299029.08	0.1073	P	1.8	2.0
5	☐	100.000	100.657	2852159.33	1.0517	A	2.1	0.7
6	☐	200.000	199.661	5494751.79	2.0853	A	0.6	-0.2

y = 0.0104 * x + 8.0838E-004
R = 1.0000
DL = 0.01909 ppb
BEC = 0.07743 ppb

Weight: <None>
Min Conc: <None>

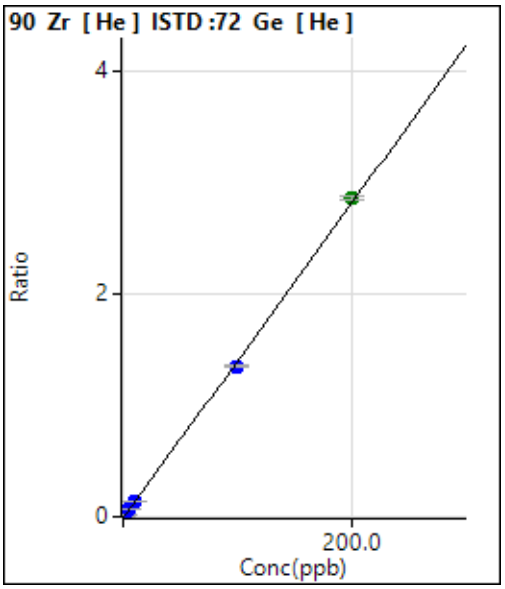
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	673.36	0.0002	P	19.8	
2	☐	2.000	1.619	29719.53	0.0106	P	1.4	-19.0
3	☐	5.000	4.463	80361.21	0.0287	P	2.4	-10.7
4	☐	10.000	9.488	169429.51	0.0608	P	1.3	-5.1
5	☐	100.000	97.196	1682987.22	0.6206	A	2.2	-2.8
6	☐	200.000	201.445	3388336.09	1.2859	A	0.4	0.7

y = 0.0064 * x + 2.4044E-004
R = 0.9999
DL = 0.02243 ppb
BEC = 0.03767 ppb

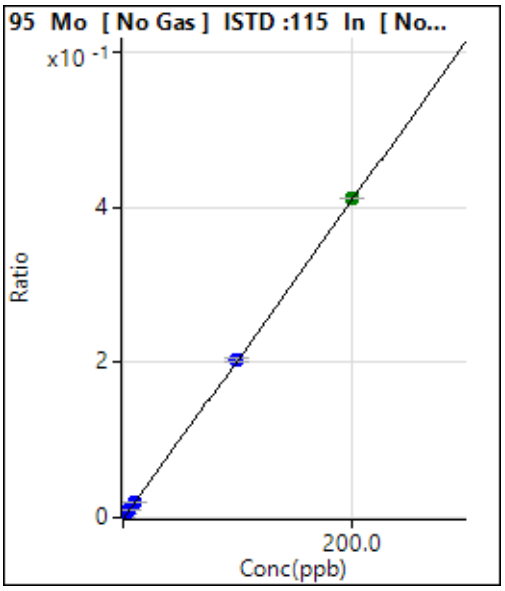
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	930.05	0.0018	P	10.3	
2	☐	2.000	1.581	12482.65	0.0242	P	1.8	-20.9
3	☐	5.000	4.329	32699.95	0.0631	P	2.9	-13.4
4	☐	10.000	9.537	70228.71	0.1369	P	1.0	-4.6
5	☐	100.000	95.473	687214.86	1.3537	P	1.6	-4.5
6	☐	200.000	202.308	1410682.16	2.8666	A	0.8	1.2

y = 0.0142 * x + 0.0018
R = 0.9997
DL = 0.03961 ppb
BEC = 0.1277 ppb

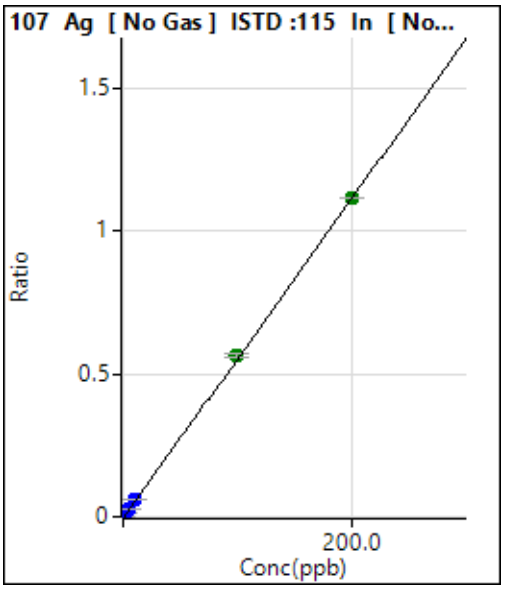
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	59.9	
2	☐	2.000	1.912	11098.07	0.0039	P	2.1	-4.4
3	☐	5.000	4.852	27939.22	0.0100	P	4.1	-3.0
4	☐	10.000	9.963	57087.48	0.0205	P	1.6	-0.4
5	☐	100.000	98.978	551366.78	0.2033	P	1.5	-1.0
6	☐	200.000	200.517	1085214.26	0.4119	A	0.1	0.3

y = 0.0021 * x + 2.2662E-005
R = 1.0000
DL = 0.01984 ppb
BEC = 0.01103 ppb

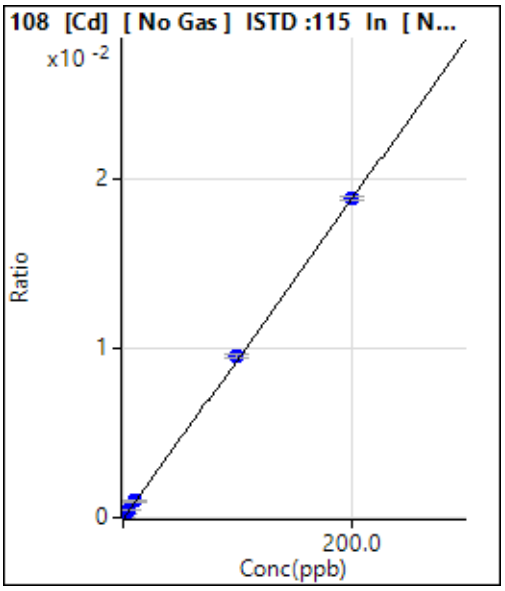
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	38.0	
2	☐	2.000	2.006	31741.26	0.0113	P	1.8	0.3
3	☐	5.000	5.116	80249.64	0.0287	P	2.8	2.3
4	☐	10.000	10.516	164092.89	0.0589	P	0.6	5.2
5	☐	100.000	101.043	1532571.90	0.5651	A	1.9	1.0
6	☐	200.000	199.450	2939070.79	1.1154	A	0.3	-0.3

y = 0.0056 * x + 7.6203E-005
R = 1.0000
DL = 0.01552 ppb
BEC = 0.01363 ppb

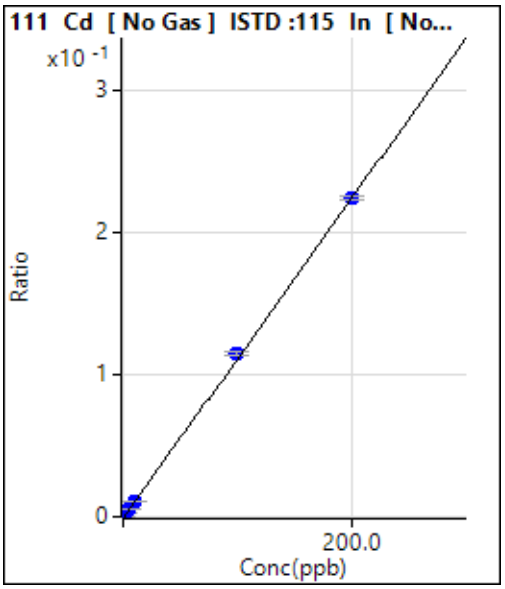
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.1	
2	☐	2.000	2.019	546.69	0.0002	P	8.6	1.0
3	☐	5.000	5.116	1363.43	0.0005	P	8.1	2.3
4	☐	10.000	10.325	2730.34	0.0010	P	12.9	3.2
5	☐	100.000	100.541	25795.29	0.0095	P	2.4	0.5
6	☐	200.000	199.710	49776.28	0.0189	P	1.8	-0.1

y = 9.4571E-005 * x + 3.5823E-006
R = 1.0000
DL = 0.1137 ppb
BEC = 0.03788 ppb

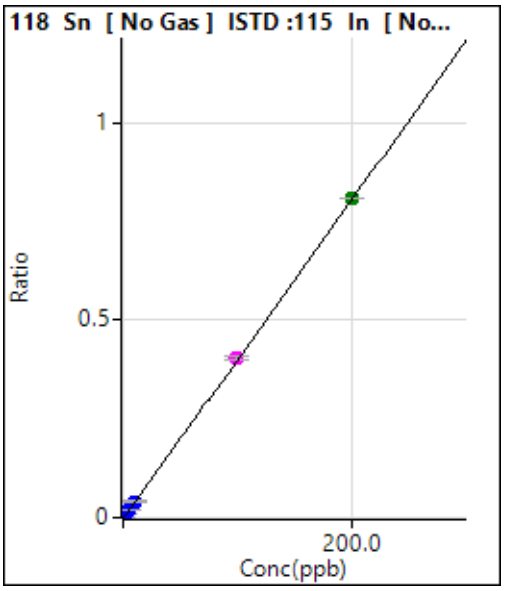
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-10.73	0.0000	P	-100.	
2	☐	2.000	2.010	6345.31	0.0023	P	7.4	0.5
3	☐	5.000	4.954	15584.85	0.0056	P	7.9	-0.9
4	☐	10.000	10.113	31702.18	0.0114	P	0.7	1.1
5	☐	100.000	101.481	309669.40	0.1142	P	2.4	1.5
6	☐	200.000	199.255	590770.71	0.2242	P	1.0	-0.4

y = 0.0011 * x - 3.8438E-006
R = 1.0000
DL = 0.01025 ppb
BEC = -0.003416 ppb

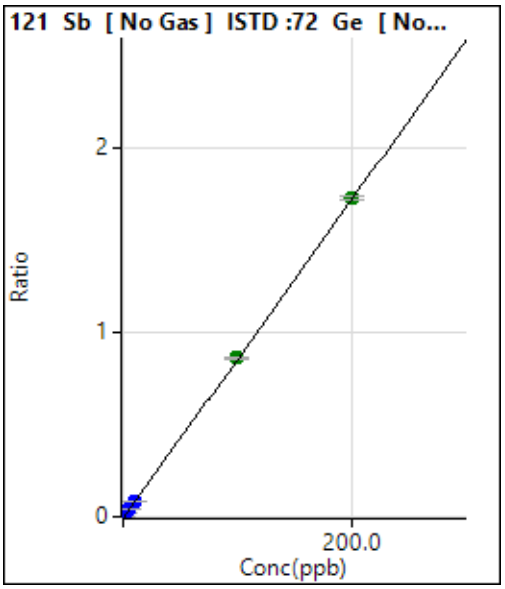
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2506.96	0.0009	P	7.4	
2	☐	2.000	1.967	24830.17	0.0088	P	1.8	-1.7
3	☐	5.000	4.907	57926.11	0.0207	P	2.5	-1.9
4	☐	10.000	9.986	114829.83	0.0412	P	2.8	-0.1
5	☐	100.000	99.805	1095066.44	0.4038	M	1.9	-0.2
6	☐	200.000	200.101	2130819.97	0.8087	A	0.4	0.1

y = 0.0040 * x + 8.9546E-004
R = 1.0000
DL = 0.04892 ppb
BEC = 0.2218 ppb

Weight: <None>
Min Conc: <None>

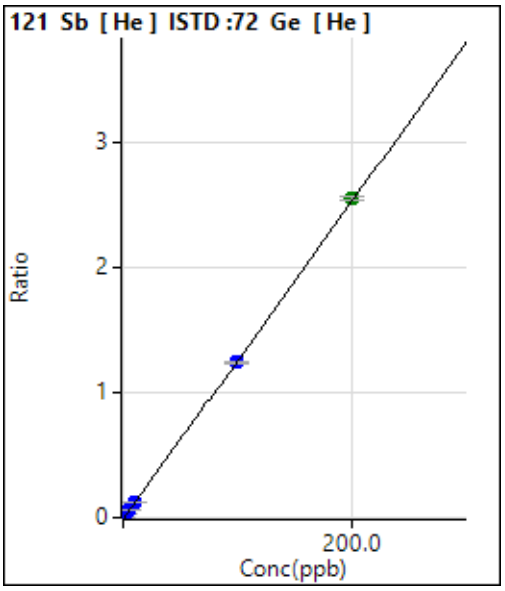


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	403.35	0.0002	P	18.8	
2	☐	2.000	1.922	29192.41	0.0168	P	2.3	-3.9
3	☐	5.000	4.888	73459.44	0.0424	P	2.0	-2.2
4	☐	10.000	10.032	149396.74	0.0867	P	1.3	0.3
5	☐	100.000	99.796	1437131.07	0.8603	A	1.5	-0.2
6	☐	200.000	200.104	2794363.50	1.7249	A	1.2	0.1

y = 0.0086 * x + 2.3157E-004
R = 1.0000
DL = 0.01518 ppb
BEC = 0.02687 ppb

Weight: <None>
Min Conc: <None>

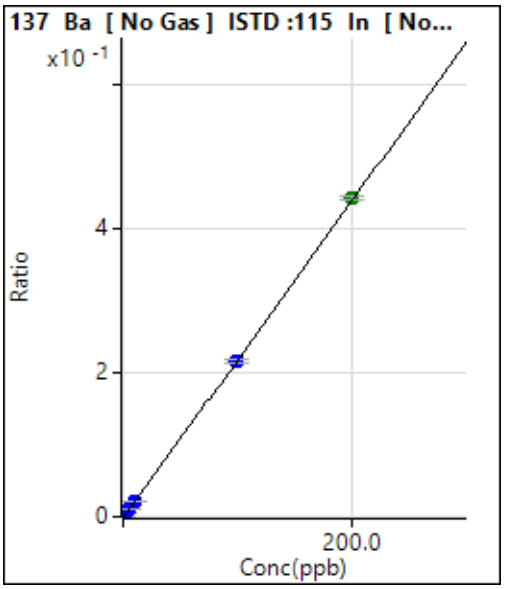
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	13.9	
2	☐	2.000	1.886	12536.22	0.0243	P	5.1	-5.7
3	☐	5.000	4.748	31447.56	0.0607	P	1.7	-5.0
4	☐	10.000	10.028	65588.77	0.1278	P	1.1	0.3
5	☐	100.000	97.794	631232.70	1.2435	P	1.8	-2.2
6	☐	200.000	201.109	1258280.01	2.5569	A	0.9	0.6

y = 0.0127 * x + 3.2390E-004
R = 0.9999
DL = 0.01065 ppb
BEC = 0.02548 ppb

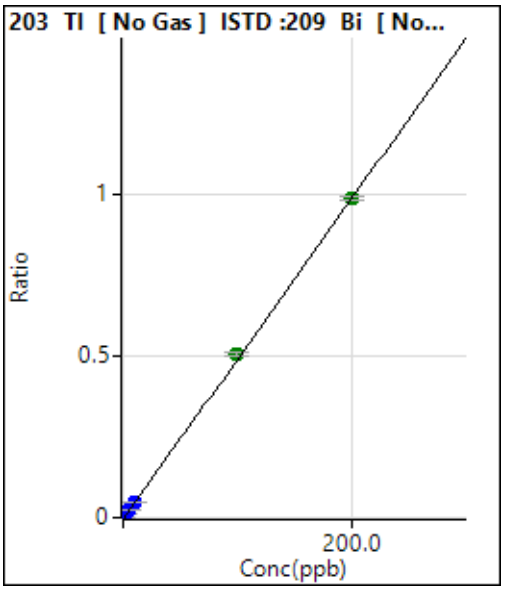
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.36	0.0002	P	3.6	
2	☐	2.000	1.864	12225.89	0.0044	P	1.8	-6.8
3	☐	5.000	4.862	30636.03	0.0110	P	1.7	-2.8
4	☐	10.000	9.901	61430.28	0.0220	P	3.3	-1.0
5	☐	100.000	97.916	585228.18	0.2158	P	1.7	-2.1
6	☐	200.000	201.052	1166860.63	0.4428	A	0.7	0.5

y = 0.0022 * x + 2.4770E-004
R = 0.9999
DL = 0.01231 ppb
BEC = 0.1125 ppb

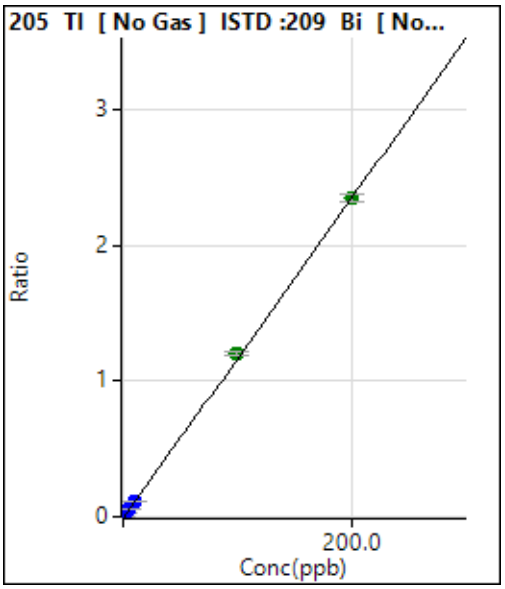
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.34	0.0000	P	38.0	
2	☐	2.000	2.145	36690.35	0.0107	P	2.3	7.2
3	☐	5.000	5.168	87884.74	0.0257	P	2.3	3.4
4	☐	10.000	9.962	170357.50	0.0496	P	1.7	-0.4
5	☐	100.000	101.631	1685249.19	0.5052	A	2.6	1.6
6	☐	200.000	199.181	3222455.57	0.9902	A	1.5	-0.4

y = 0.0050 * x + 4.1690E-005
R = 1.0000
DL = 0.009571 ppb
BEC = 0.008387 ppb

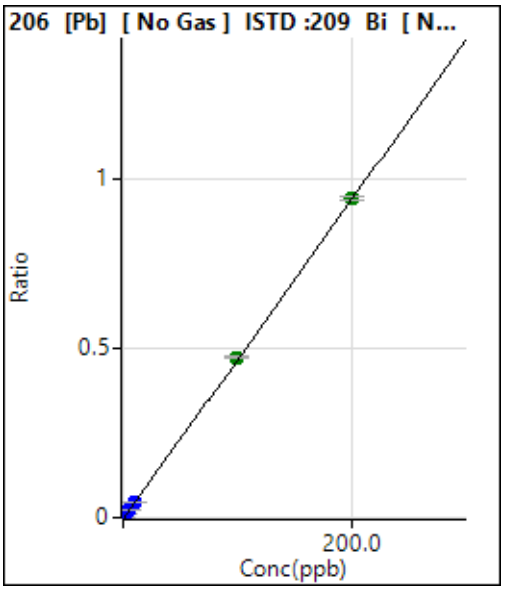
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0001	P	9.2	
2	☐	2.000	2.110	85609.75	0.0250	P	4.1	5.5
3	☐	5.000	5.173	208749.78	0.0611	P	2.1	3.5
4	☐	10.000	10.028	406996.01	0.1184	P	1.4	0.3
5	☐	100.000	101.752	4004801.82	1.2007	A	2.0	1.8
6	☐	200.000	199.117	7646193.01	2.3495	A	1.8	-0.4

y = 0.0118 * x + 8.0646E-005
R = 0.9999
DL = 0.001891 ppb
BEC = 0.006835 ppb

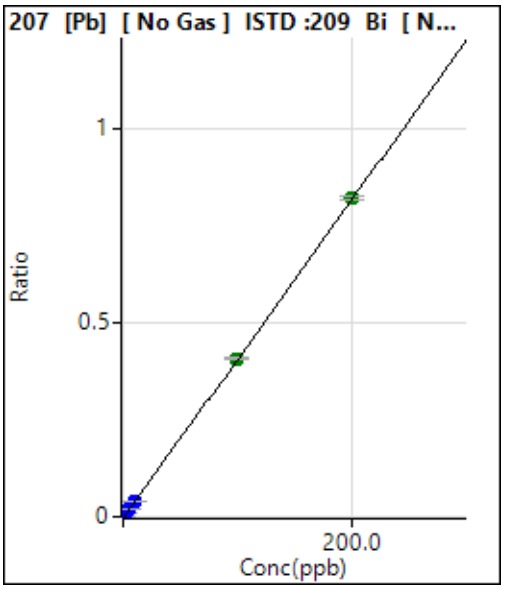
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.02	0.0001	P	24.3	
2	☐	2.000	1.966	32258.31	0.0094	P	1.8	-1.7
3	☐	5.000	4.913	79684.25	0.0233	P	1.3	-1.7
4	☐	10.000	9.934	161711.00	0.0470	P	2.6	-0.7
5	☐	100.000	100.362	1581460.96	0.4741	A	1.4	0.4
6	☐	200.000	199.825	3071924.43	0.9439	A	1.2	-0.1

y = 0.0047 * x + 1.2798E-004
R = 1.0000
DL = 0.01977 ppb
BEC = 0.0271 ppb

Weight: <None>
Min Conc: <None>

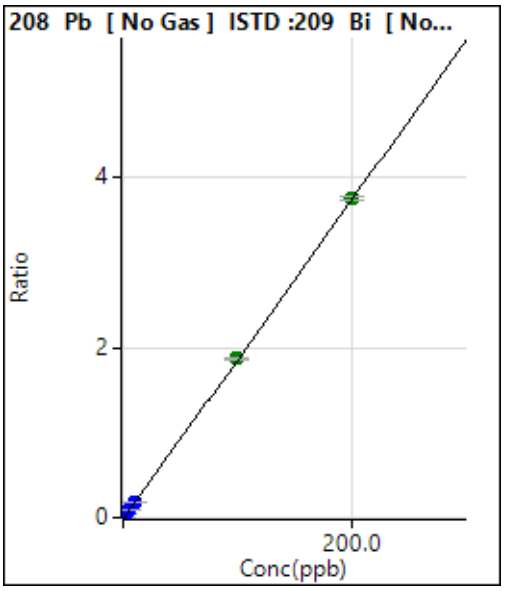


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0001	P	7.7	
2	☐	2.000	1.989	28245.21	0.0082	P	1.1	-0.6
3	☐	5.000	4.942	69471.25	0.0203	P	1.7	-1.2
4	☐	10.000	10.055	141926.37	0.0413	P	0.8	0.6
5	☐	100.000	99.448	1359347.43	0.4075	A	1.4	-0.6
6	☐	200.000	200.275	2670719.23	0.8206	A	1.1	0.1

y = 0.0041 * x + 9.2239E-005
R = 1.0000
DL = 0.005176 ppb
BEC = 0.02251 ppb

Weight: <None>
Min Conc: <None>

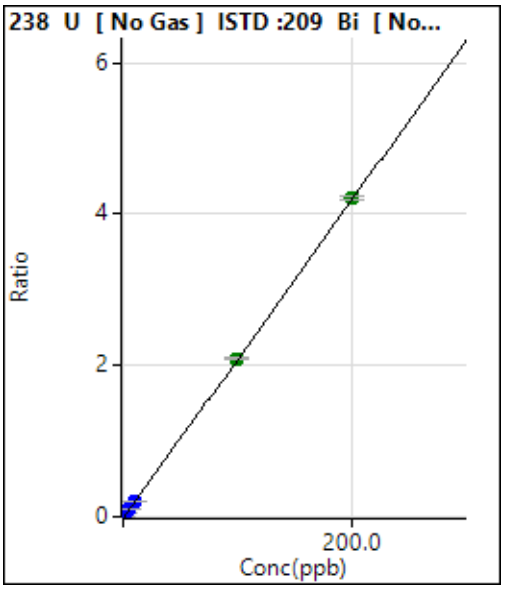
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1676.74	0.0005	P	8.1	
2	☐	2.000	1.966	128209.23	0.0374	P	2.3	-1.7
3	☐	5.000	4.957	319631.56	0.0936	P	1.8	-0.9
4	☐	10.000	10.060	651087.94	0.1894	P	1.4	0.6
5	☐	100.000	99.864	6257181.15	1.8759	A	1.4	-0.1
6	☐	200.000	200.066	12229555.23	3.7577	A	1.1	0.0

y = 0.0188 * x + 4.8831E-004
R = 1.0000
DL = 0.006282 ppb
BEC = 0.026 ppb

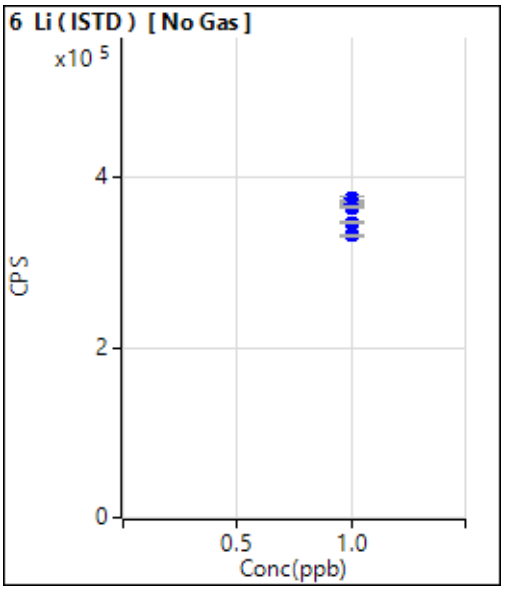
Weight: <None>
Min Conc: <None>



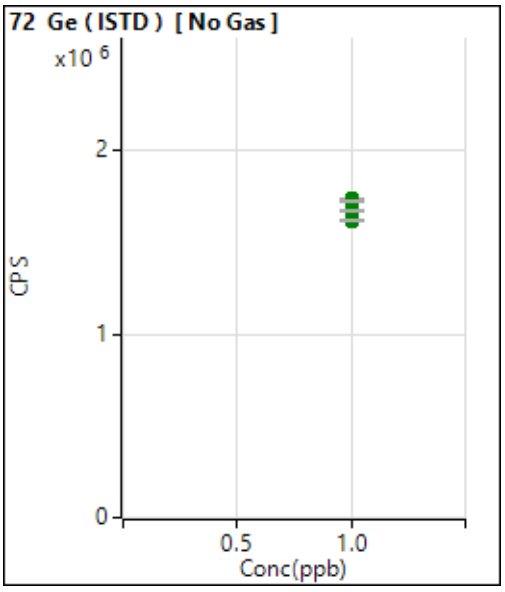
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.37	0.0002	P	14.1	
2	☐	2.000	1.841	133404.32	0.0389	P	2.8	-8.0
3	☐	5.000	4.668	336062.00	0.0984	P	2.0	-6.6
4	☐	10.000	9.486	686648.56	0.1998	P	1.6	-5.1
5	☐	100.000	99.302	6968497.61	2.0892	A	0.7	-0.7
6	☐	200.000	200.385	13719616.88	4.2156	A	1.2	0.2

y = 0.0210 * x + 2.0211E-004
R = 1.0000
DL = 0.004063 ppb
BEC = 0.009608 ppb

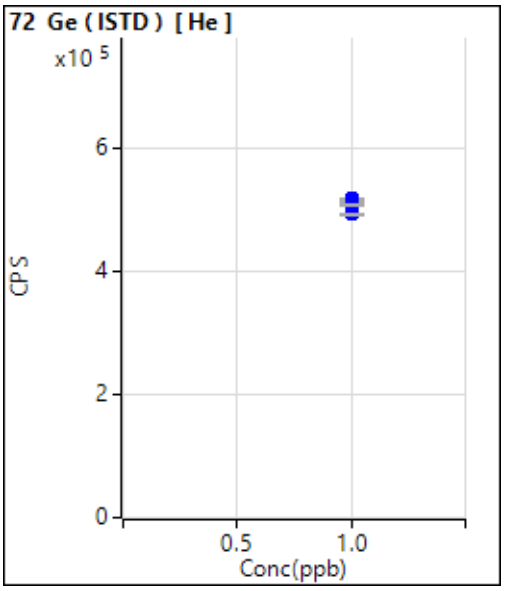
Weight: <None>
Min Conc: <None>



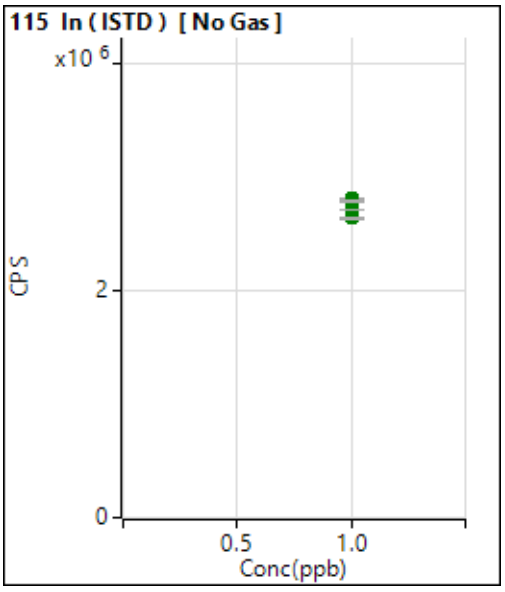
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		375545.86		P	0.7	
2	☐	1.000		370459.99		P	0.4	
3	☐	1.000		369364.72		P	1.2	
4	☐	1.000		365340.52		P	0.6	
5	☐	1.000		346983.29		P	0.6	
6	☐	1.000		331810.02		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1740970.13		A	0.5	
2	☐	1.000		1738465.55		A	0.9	
3	☐	1.000		1734354.56		A	0.3	
4	☐	1.000		1723288.15		A	0.4	
5	☐	1.000		1670427.21		A	0.5	
6	☐	1.000		1620036.54		A	0.1	

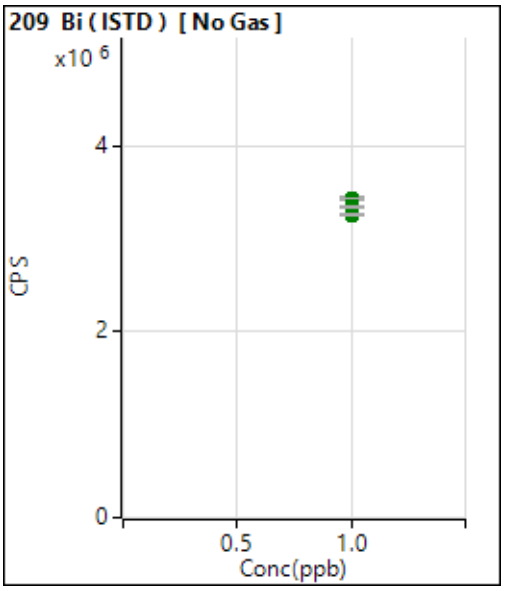


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		514002.11		P	1.3	
2	☐	1.000		515866.93		P	0.3	
3	☐	1.000		518203.58		P	0.2	
4	☐	1.000		513151.11		P	0.9	
5	☐	1.000		507673.23		P	0.9	
6	☐	1.000		492101.76		P	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2799462.89		A	0.5	
2	☐	1.000		2810325.67		A	0.1	
3	☐	1.000		2797574.52		A	0.2	
4	☐	1.000		2786834.01		A	0.3	
5	☐	1.000		2711989.03		A	0.2	
6	☐	1.000		2634933.38		A	0.4	

Calibration for 245_ICV.d



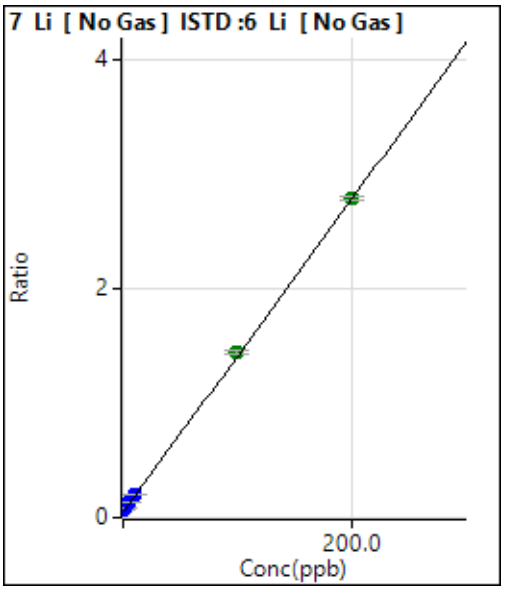
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3432725.99		A	1.0	
2	☐	1.000		3427876.41		A	0.8	
3	☐	1.000		3415552.03		A	0.5	
4	☐	1.000		3437419.01		A	0.2	
5	☐	1.000		3335584.22		A	0.7	
6	☐	1.000		3254629.74		A	0.5	

Calibration for 209_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	202CALB.d	CAL BLK	7/1/2024 8:44:27 PM
2	203CALS.d	2/10/200	7/1/2024 8:46:59 PM
3	204CALS.d	5/25/500	7/1/2024 8:49:30 PM
4	205CALS.d	10/50/100	7/1/2024 8:52:01 PM
5	206CALS.d	100/500/10K	7/1/2024 8:54:32 PM
6	207CALS.d	200/1000/20K	7/1/2024 8:57:03 PM

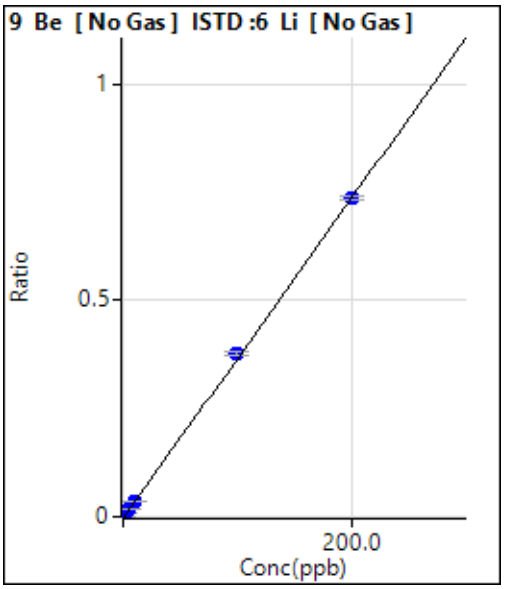
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41349.69	0.0612	P	1.8	
2	☐	2.000	1.933	57328.04	0.0875	P	0.9	-3.4
3	☐	5.000	4.976	83859.88	0.1291	P	0.3	-0.5
4	☐	10.000	10.029	125847.80	0.1980	P	0.4	0.3
5	☐	100.000	100.836	850622.31	1.4375	A	2.1	0.8
6	☐	200.000	199.582	1563797.94	2.7854	A	0.8	-0.2

y = 0.0136 * x + 0.0612
R = 1.0000
DL = 0.2441 ppb
BEC = 4.481 ppb

Weight: <None>
Min Conc: <None>

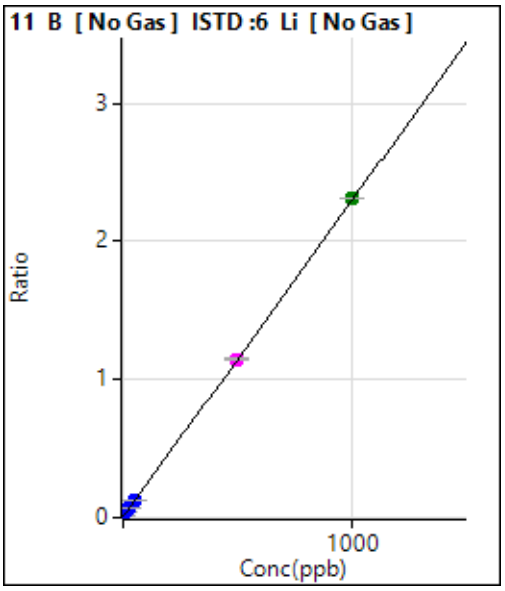


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	46.8	
2	☐	2.000	1.997	4872.54	0.0074	P	7.6	-0.2
3	☐	5.000	4.787	11544.77	0.0178	P	3.8	-4.3
4	☐	10.000	9.962	23461.04	0.0369	P	2.0	-0.4
5	☐	100.000	101.955	223311.55	0.3774	P	1.9	2.0
6	☐	200.000	199.029	413586.74	0.7367	P	0.8	-0.5

y = 0.0037 * x + 4.9437E-005
R = 0.9999
DL = 0.01874 ppb
BEC = 0.01336 ppb

Weight: <None>
Min Conc: <None>

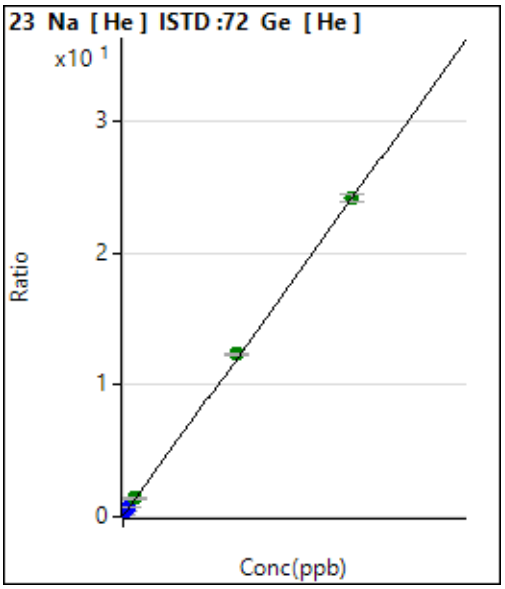
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10659.44	0.0158	P	3.4	
2	☐	10.000	8.977	23774.90	0.0363	P	1.5	-10.2
3	☐	25.000	23.099	44577.94	0.0686	P	0.3	-7.6
4	☐	50.000	48.314	80263.19	0.1263	P	1.2	-3.4
5	☐	500.000	493.326	677205.15	1.1444	M	1.5	-1.3
6	☐	1000.000	1003.479	1297792.19	2.3116	A	0.2	0.3

y = 0.0023 * x + 0.0158
R = 1.0000
DL = 0.7123 ppb
BEC = 6.892 ppb

Weight: <None>
Min Conc: <None>

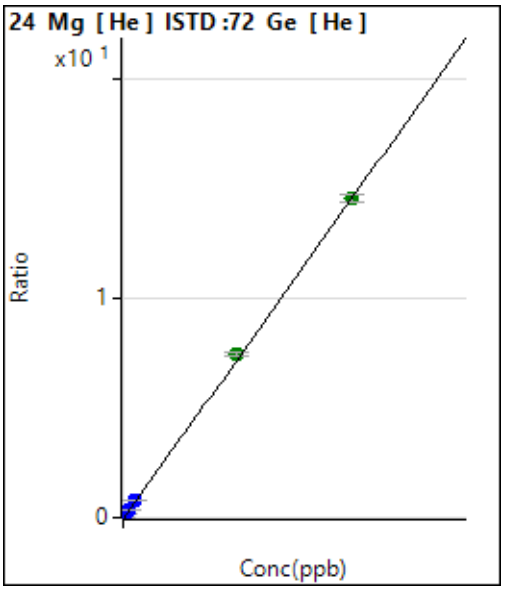


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140843.03	0.1722	P	1.5	
2	☐	200.000	186.633	322805.45	0.3969	P	0.2	-6.7
3	☐	500.000	479.846	607865.42	0.7499	P	0.8	-4.0
4	☐	1000.000	1008.011	1106405.71	1.3858	A	1.3	0.8
5	☐	10000.00	10114.06	9574453.19	12.3487	A	1.6	1.1
6	☐	20000.00	19943.20	18149792.65	24.1821	A	2.0	-0.3

y = 0.0012 * x + 0.1722
R = 1.0000
DL = 6.429 ppb
BEC = 143 ppb

Weight: <None>
Min Conc: <None>

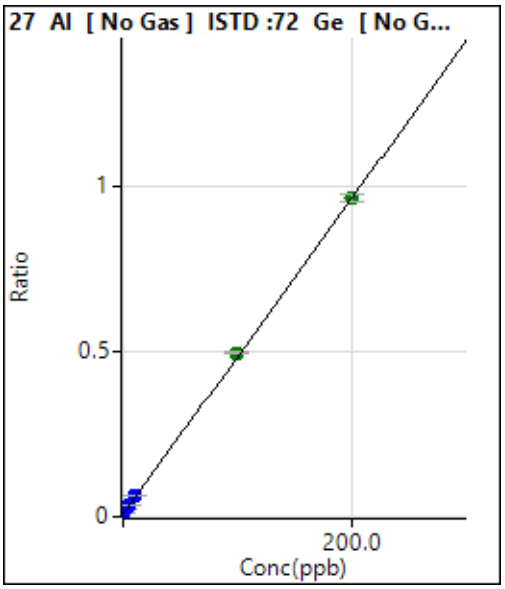
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2980.92	0.0036	P	22.5	
2	☐	200.000	201.785	123059.12	0.1513	P	1.1	0.9
3	☐	500.000	502.648	301114.95	0.3715	P	0.8	0.5
4	☐	1000.000	1039.926	610481.59	0.7646	P	1.5	4.0
5	☐	10000.00	10165.77	5770524.29	7.4426	A	1.8	1.7
6	☐	20000.00	19915.03	10940753.59	14.5767	A	1.8	-0.4

y = 7.3176E-004 * x + 0.0036
R = 1.0000
DL = 3.368 ppb
BEC = 4.979 ppb

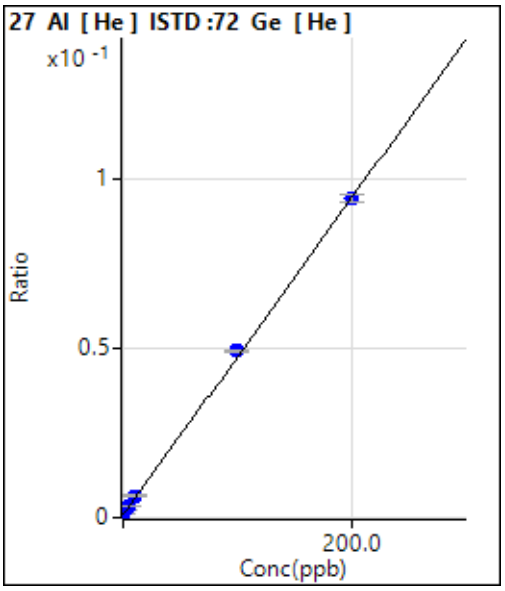
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35946.06	0.0128	P	1.8	
2	☐	2.000	2.084	63761.00	0.0227	P	0.6	4.2
3	☐	5.000	4.781	98781.12	0.0356	P	2.3	-4.4
4	☐	10.000	10.377	171432.97	0.0624	P	1.4	3.8
5	☐	100.000	101.236	1316379.05	0.4967	A	1.0	1.2
6	☐	200.000	199.368	2442972.46	0.9658	A	2.0	-0.3

y = 0.0048 * x + 0.0128
R = 1.0000
DL = 0.1446 ppb
BEC = 2.668 ppb

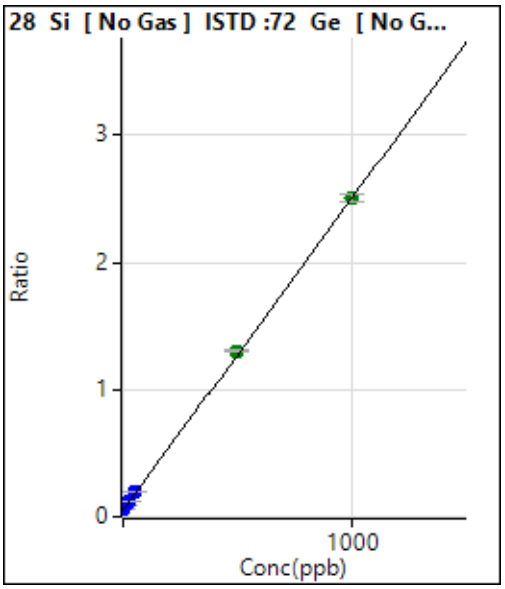
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1056.73	0.0013	P	2.8	
2	☐	2.000	1.667	1686.80	0.0021	P	4.3	-16.6
3	☐	5.000	5.003	2950.37	0.0036	P	2.0	0.1
4	☐	10.000	10.870	5104.36	0.0064	P	5.0	8.7
5	☐	100.000	102.453	38279.02	0.0494	P	0.9	2.5
6	☐	200.000	198.733	70968.50	0.0945	P	2.5	-0.6

y = 4.6926E-004 * x + 0.0013
R = 0.9999
DL = 0.2276 ppb
BEC = 2.753 ppb

Weight: <None>
Min Conc: <None>

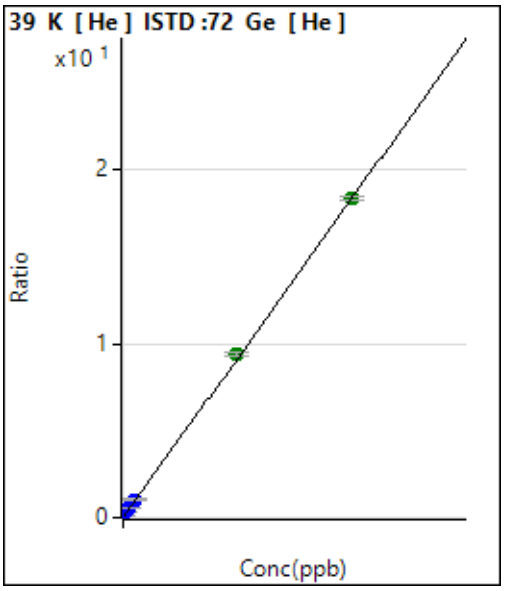


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	182272.70	0.0647	P	1.2	
2	☐	10.000	9.957	249973.26	0.0891	P	0.6	-0.4
3	☐	25.000	25.175	350490.13	0.1263	P	1.0	0.7
4	☐	50.000	51.795	526562.09	0.1916	P	1.1	3.6
5	☐	500.000	506.071	3456666.51	1.3043	A	0.5	1.2
6	☐	1000.000	996.871	6339958.87	2.5065	A	2.1	-0.3

y = 0.0024 * x + 0.0647
R = 1.0000
DL = 0.9229 ppb
BEC = 26.41 ppb

Weight: <None>
Min Conc: <None>

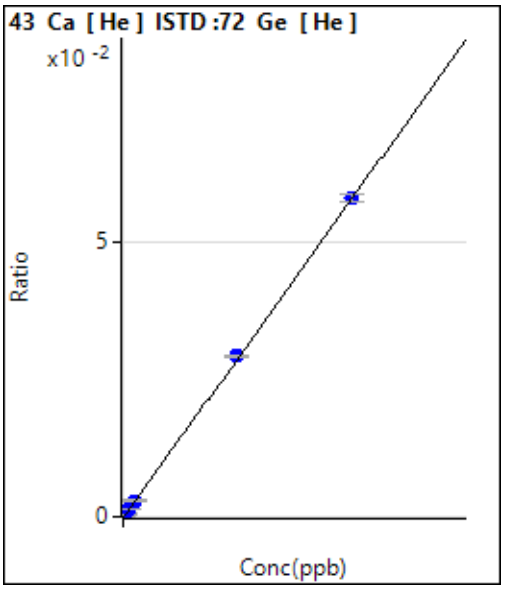
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81527.51	0.0997	P	0.4	
2	☐	200.000	201.913	231489.49	0.2846	P	0.8	1.0
3	☐	500.000	505.042	455793.92	0.5623	P	0.5	1.0
4	☐	1000.000	1036.732	837738.87	1.0493	P	1.3	3.7
5	☐	10000.00	10158.71	7291634.06	9.4044	A	1.6	1.6
6	☐	20000.00	19918.66	13768221.46	18.3439	A	1.4	-0.4

y = 9.1594E-004 * x + 0.0997
R = 1.0000
DL = 1.414 ppb
BEC = 108.8 ppb

Weight: <None>
Min Conc: <None>

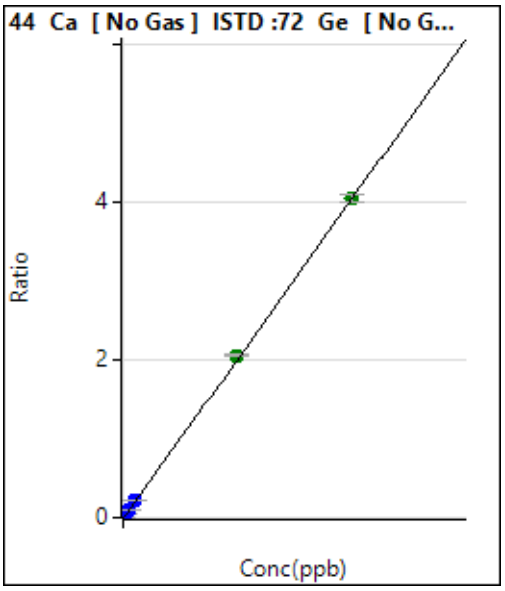


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	57.9	
2	☐	200.000	172.660	450.02	0.0006	P	11.3	-13.7
3	☐	500.000	451.195	1103.39	0.0014	P	12.5	-9.8
4	☐	1000.000	977.235	2303.57	0.0029	P	5.9	-2.3
5	☐	10000.00	10069.61	22668.70	0.0292	P	1.7	0.7
6	☐	20000.00	19967.82	43481.53	0.0579	P	2.4	-0.2

y = 2.8982E-006 * x + 5.2971E-005
R = 1.0000
DL = 31.77 ppb
BEC = 18.28 ppb

Weight: <None>
Min Conc: <None>

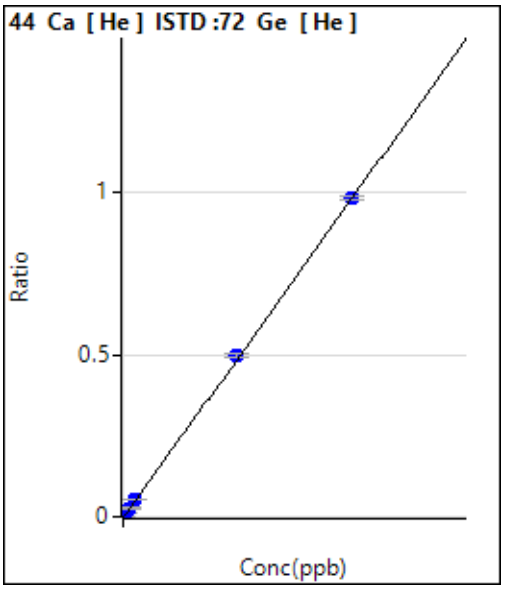
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11951.97	0.0042	P	3.5	
2	☐	200.000	204.122	128007.80	0.0456	P	1.6	2.1
3	☐	500.000	510.286	298637.16	0.1077	P	1.7	2.1
4	☐	1000.000	1032.016	586609.28	0.2134	P	1.0	3.2
5	☐	10000.00	10089.59	5430393.46	2.0490	A	1.1	0.9
6	☐	20000.00	19953.30	10238904.22	4.0480	A	2.2	-0.2

y = 2.0266E-004 * x + 0.0042
R = 1.0000
DL = 2.226 ppb
BEC = 20.93 ppb

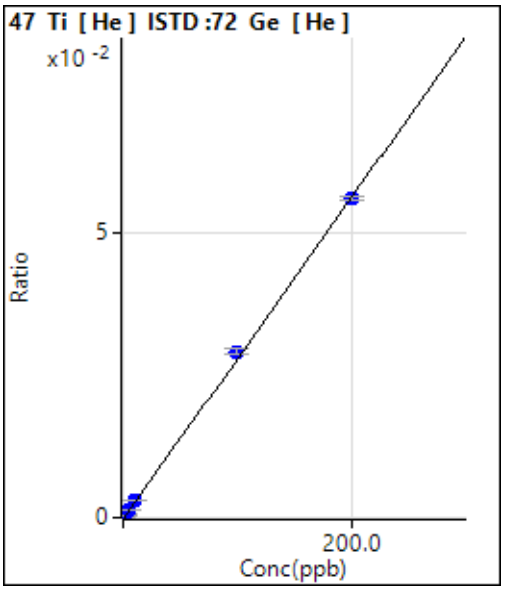
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.69	0.0008	P	16.3	
2	☐	200.000	201.935	8719.53	0.0107	P	5.4	1.0
3	☐	500.000	519.344	21373.41	0.0264	P	2.8	3.9
4	☐	1000.000	1036.543	41411.83	0.0519	P	0.8	3.7
5	☐	10000.00	10097.43	386560.37	0.4986	P	1.7	1.0
6	☐	20000.00	19948.95	738744.03	0.9842	P	1.3	-0.3

y = 4.9300E-005 * x + 7.6631E-004
R = 1.0000
DL = 7.585 ppb
BEC = 15.54 ppb

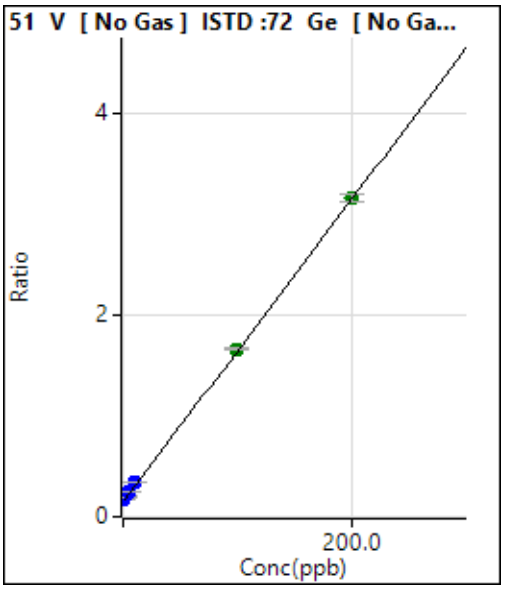
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.709	400.01	0.0005	P	9.4	-14.6
3	☐	5.000	4.766	1100.06	0.0014	P	11.8	-4.7
4	☐	10.000	10.663	2416.93	0.0030	P	7.4	6.6
5	☐	100.000	103.183	22658.85	0.0292	P	3.2	3.2
6	☐	200.000	198.384	42170.88	0.0562	P	1.2	-0.8

y = 2.8316E-004 * x + 8.1373E-006
R = 0.9998
DL = 0.1493 ppb
BEC = 0.02874 ppb

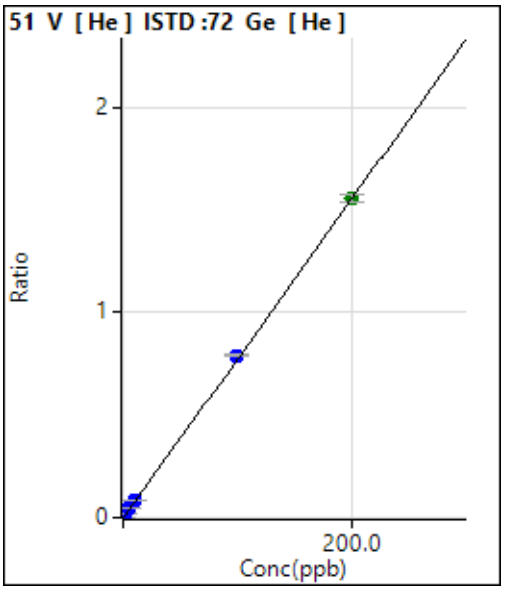
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461297.75	0.1637	P	2.3	
2	☐	2.000	2.435	561742.44	0.2002	P	1.1	21.7
3	☐	5.000	5.892	698973.58	0.2520	P	0.7	17.8
4	☐	10.000	11.807	936161.19	0.3406	P	1.3	18.1
5	☐	100.000	100.034	4405637.61	1.6623	A	1.5	0.0
6	☐	200.000	199.866	7987708.91	3.1580	A	2.3	-0.1

y = 0.0150 * x + 0.1637
R = 1.0000
DL = 0.7548 ppb
BEC = 10.93 ppb

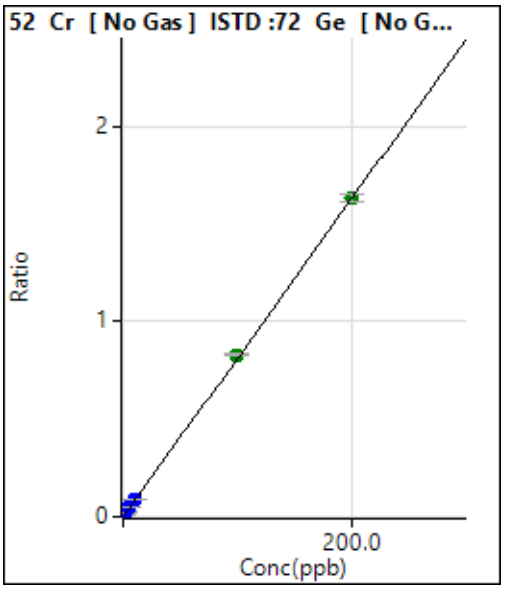
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3634.94	0.0044	P	0.4	
2	☐	2.000	1.989	16209.51	0.0199	P	2.0	-0.5
3	☐	5.000	4.980	35026.34	0.0432	P	2.5	-0.4
4	☐	10.000	10.291	67511.12	0.0846	P	1.4	2.9
5	☐	100.000	100.976	612906.64	0.7905	P	1.4	1.0
6	☐	200.000	199.498	1168975.51	1.5574	A	2.0	-0.3

y = 0.0078 * x + 0.0044
R = 1.0000
DL = 0.006699 ppb
BEC = 0.5709 ppb

Weight: <None>
Min Conc: <None>

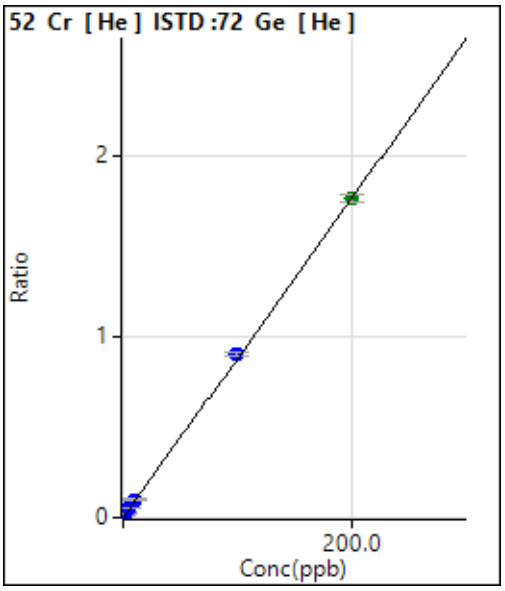


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20735.82	0.0074	P	4.6	
2	☐	2.000	2.077	68217.42	0.0243	P	2.6	3.9
3	☐	5.000	5.152	137002.10	0.0494	P	1.8	3.0
4	☐	10.000	10.393	253306.83	0.0921	P	1.6	3.9
5	☐	100.000	101.047	2204325.59	0.8317	A	2.1	1.0
6	☐	200.000	199.452	4134429.21	1.6346	A	2.2	-0.3

y = 0.0082 * x + 0.0074
R = 1.0000
DL = 0.1258 ppb
BEC = 0.9019 ppb

Weight: <None>
Min Conc: <None>

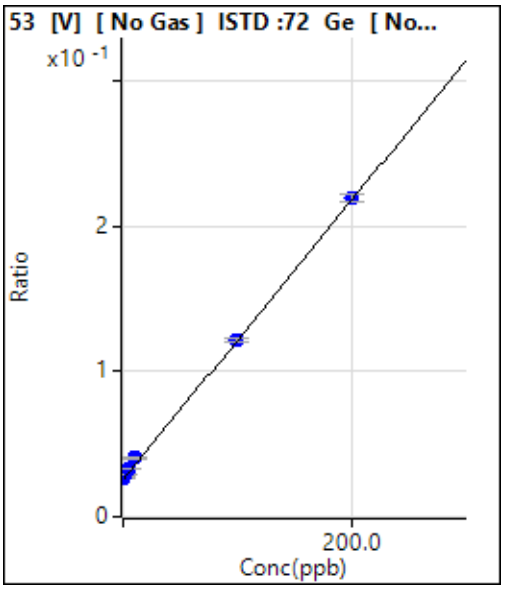
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7292.03	0.0089	P	6.9	
2	☐	2.000	1.973	21413.44	0.0263	P	3.5	-1.4
3	☐	5.000	5.174	44250.68	0.0546	P	0.9	3.5
4	☐	10.000	10.434	80654.16	0.1010	P	2.7	4.3
5	☐	100.000	101.635	702535.22	0.9061	P	1.7	1.6
6	☐	200.000	199.157	1326209.15	1.7670	A	1.9	-0.4

y = 0.0088 * x + 0.0089
R = 1.0000
DL = 0.2101 ppb
BEC = 1.01 ppb

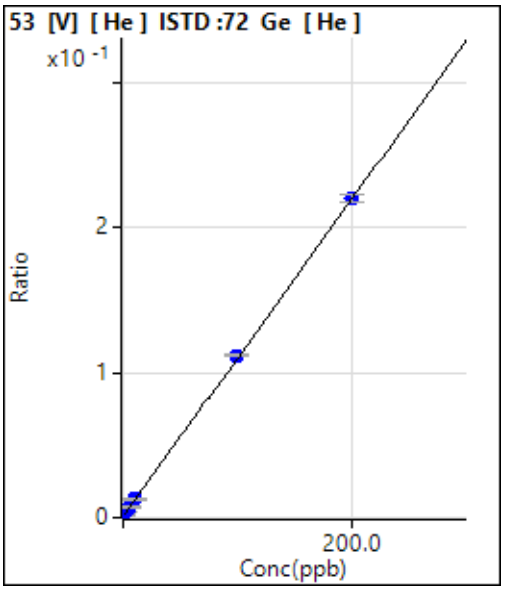
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	75348.33	0.0267	P	2.8	
2	☐	2.000	2.797	82568.95	0.0294	P	1.5	39.8
3	☐	5.000	6.797	92269.75	0.0333	P	1.9	35.9
4	☐	10.000	14.275	111156.92	0.0404	P	1.6	42.7
5	☐	100.000	98.471	321353.52	0.1213	P	2.0	-1.5
6	☐	200.000	200.498	554371.61	0.2192	P	2.9	0.2

y = 9.5983E-004 * x + 0.0267
R = 0.9998
DL = 2.349 ppb
BEC = 27.86 ppb

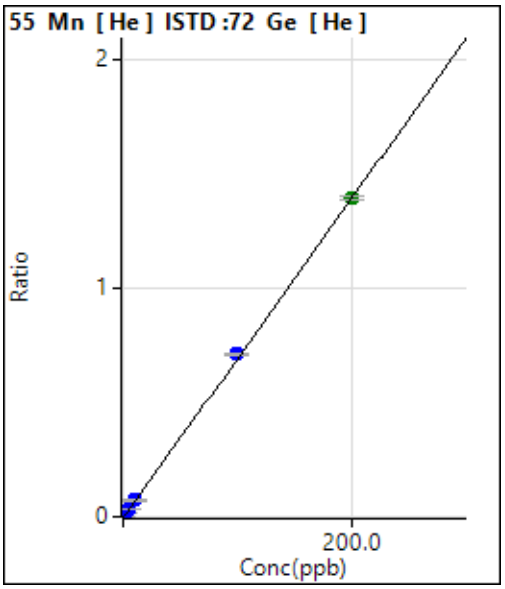
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.13	0.0020	P	10.2	
2	☐	2.000	1.715	3177.08	0.0039	P	5.2	-14.2
3	☐	5.000	4.774	5878.03	0.0073	P	4.1	-4.5
4	☐	10.000	9.803	10180.57	0.0128	P	2.5	-2.0
5	☐	100.000	100.703	86965.26	0.1122	P	1.3	0.7
6	☐	200.000	199.667	165418.89	0.2204	P	2.0	-0.2

y = 0.0011 * x + 0.0020
R = 1.0000
DL = 0.5682 ppb
BEC = 1.856 ppb

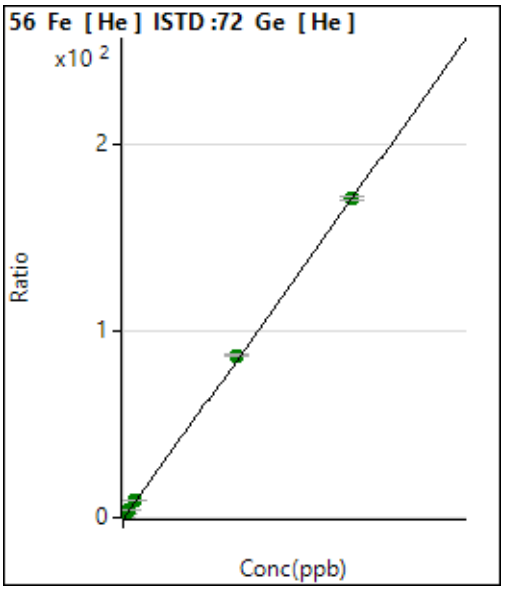
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	643.36	0.0008	P	8.0	
2	☐	2.000	1.990	11945.38	0.0147	P	3.9	-0.5
3	☐	5.000	5.031	29131.03	0.0359	P	2.1	0.6
4	☐	10.000	10.191	57476.26	0.0720	P	1.9	1.9
5	☐	100.000	101.455	550182.15	0.7096	P	0.9	1.5
6	☐	200.000	199.262	1045447.85	1.3929	A	1.7	-0.4

y = 0.0070 * x + 7.8669E-004
R = 1.0000
DL = 0.02693 ppb
BEC = 0.1126 ppb

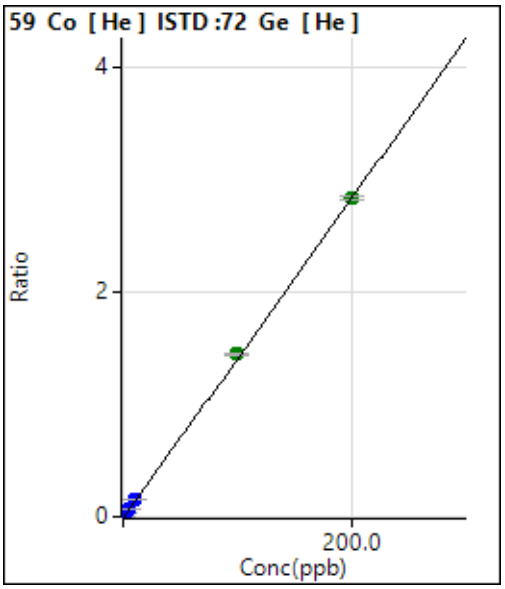
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14054.02	0.0172	P	4.8	
2	☐	200.000	200.760	1414286.59	1.7388	A	1.3	0.4
3	☐	500.000	503.826	3516325.57	4.3377	A	2.0	0.8
4	☐	1000.000	1043.852	7160738.64	8.9687	A	1.6	4.4
5	☐	10000.00	10118.90	67294057.33	86.7918	A	1.3	1.2
6	☐	20000.00	19938.25	128342718.0	170.997	A	1.3	-0.3

y = 0.0086 * x + 0.0172
R = 1.0000
DL = 0.2866 ppb
BEC = 2.004 ppb

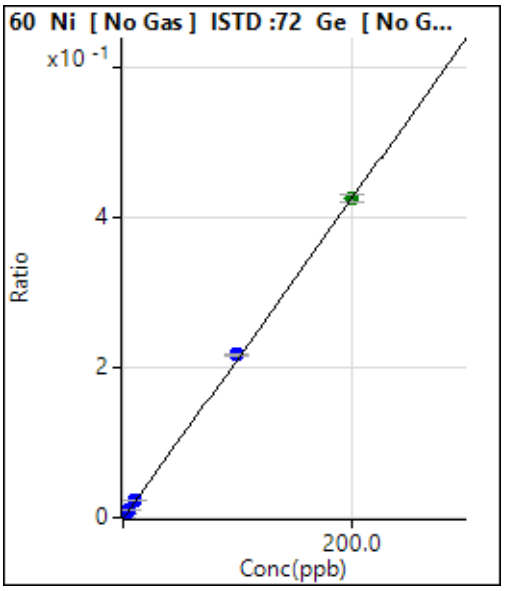
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	44.4	
2	☐	2.000	1.947	22658.95	0.0279	P	3.4	-2.7
3	☐	5.000	4.980	57627.10	0.0711	P	2.4	-0.4
4	☐	10.000	10.270	116956.16	0.1465	P	1.5	2.7
5	☐	100.000	101.538	1122144.23	1.4473	A	1.0	1.5
6	☐	200.000	199.219	2131174.97	2.8395	A	1.5	-0.4

y = 0.0143 * x + 1.1404E-004
R = 1.0000
DL = 0.01066 ppb
BEC = 0.008001 ppb

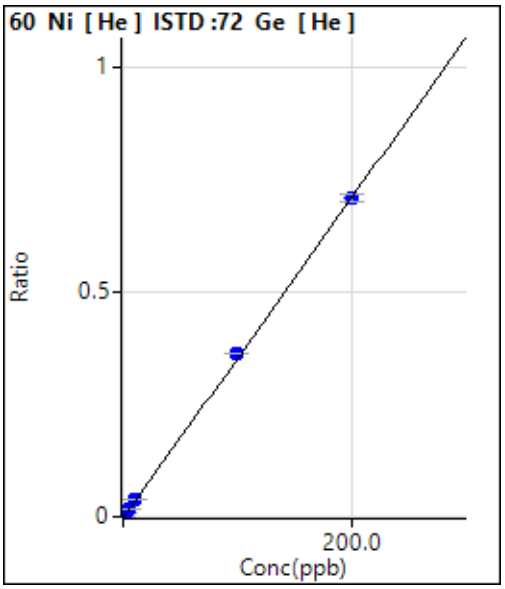
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0005	P	8.5	
2	☐	2.000	2.037	13723.74	0.0049	P	1.4	1.8
3	☐	5.000	5.111	31766.95	0.0115	P	0.5	2.2
4	☐	10.000	10.356	62247.09	0.0226	P	0.3	3.6
5	☐	100.000	101.446	575247.70	0.2171	P	1.3	1.4
6	☐	200.000	199.256	1076993.24	0.4258	A	2.7	-0.4

y = 0.0021 * x + 5.4295E-004
R = 1.0000
DL = 0.06473 ppb
BEC = 0.2544 ppb

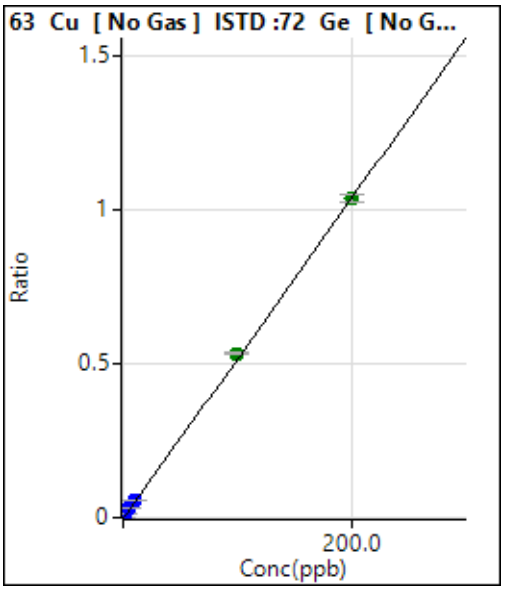
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	16.3	
2	☐	2.000	2.079	6288.20	0.0077	P	2.5	3.9
3	☐	5.000	5.175	15198.61	0.0188	P	4.3	3.5
4	☐	10.000	10.736	30771.30	0.0385	P	1.9	7.4
5	☐	100.000	102.150	282109.35	0.3638	P	0.5	2.1
6	☐	200.000	198.883	531459.91	0.7081	P	1.9	-0.6

y = 0.0036 * x + 3.3410E-004
R = 0.9999
DL = 0.04581 ppb
BEC = 0.09389 ppb

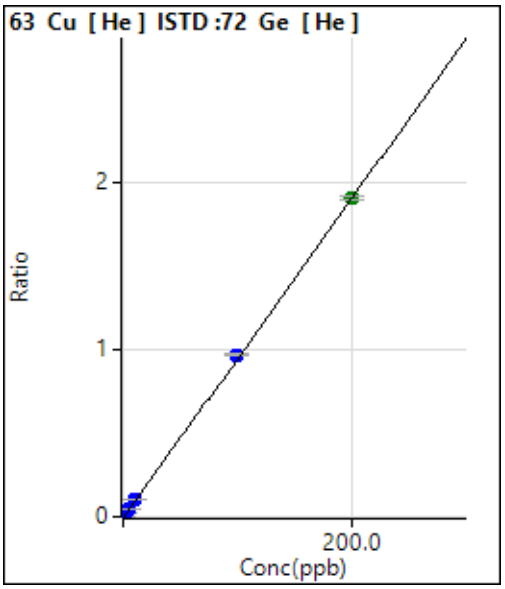
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3807.26	0.0014	P	10.1	
2	☐	2.000	2.101	34466.80	0.0123	P	2.3	5.0
3	☐	5.000	5.225	79163.46	0.0285	P	2.6	4.5
4	☐	10.000	10.507	154003.73	0.0560	P	1.5	5.1
5	☐	100.000	102.068	1411021.23	0.5324	A	1.8	2.1
6	☐	200.000	198.934	2621439.76	1.0364	A	2.5	-0.5

y = 0.0052 * x + 0.0014
R = 0.9999
DL = 0.07857 ppb
BEC = 0.2596 ppb

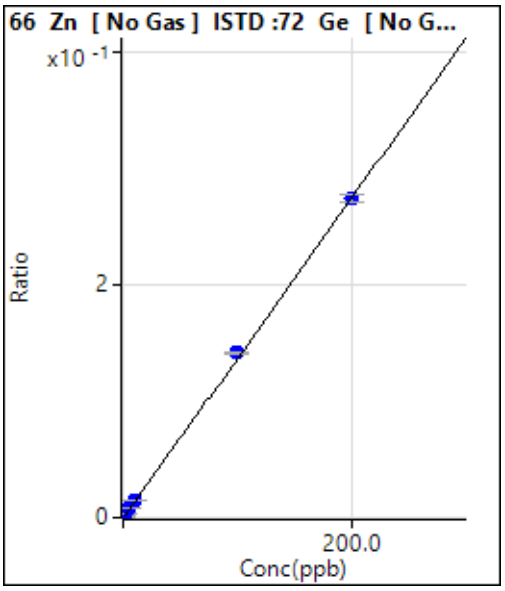
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0007	P	15.4	
2	☐	2.000	2.077	16783.84	0.0206	P	3.1	3.9
3	☐	5.000	5.145	40546.62	0.0500	P	2.8	2.9
4	☐	10.000	10.459	80575.34	0.1009	P	0.4	4.6
5	☐	100.000	101.105	751420.67	0.9691	P	1.2	1.1
6	☐	200.000	199.420	1434189.36	1.9108	A	1.1	-0.3

y = 0.0096 * x + 7.3771E-004
R = 1.0000
DL = 0.03569 ppb
BEC = 0.07702 ppb

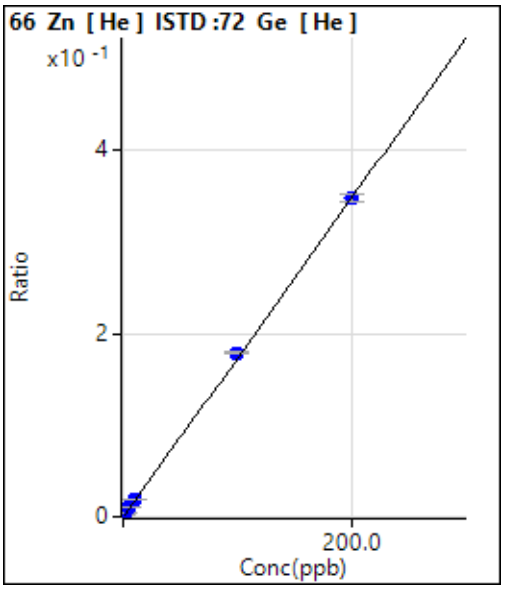
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.92	0.0008	P	13.4	
2	☐	2.000	2.003	10107.24	0.0036	P	3.1	0.2
3	☐	5.000	5.017	21483.77	0.0077	P	2.4	0.3
4	☐	10.000	10.271	41145.14	0.0150	P	0.4	2.7
5	☐	100.000	102.271	374888.93	0.1415	P	1.1	2.3
6	☐	200.000	198.850	693636.50	0.2742	P	2.5	-0.6

y = 0.0014 * x + 8.4673E-004
R = 0.9999
DL = 0.2471 ppb
BEC = 0.6159 ppb

Weight: <None>
Min Conc: <None>

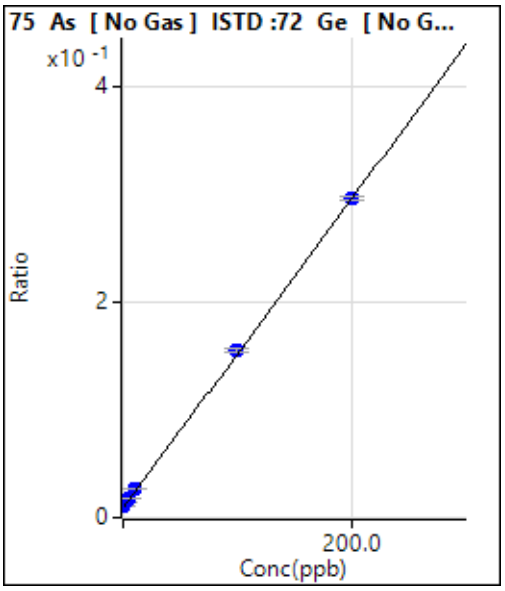


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	910.05	0.0011	P	10.0	
2	☐	2.000	2.169	3980.67	0.0049	P	9.9	8.5
3	☐	5.000	5.088	8092.53	0.0100	P	4.5	1.8
4	☐	10.000	10.312	15245.40	0.0191	P	0.6	3.1
5	☐	100.000	101.904	138644.14	0.1788	P	1.6	1.9
6	☐	200.000	199.028	261334.74	0.3482	P	2.2	-0.5

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.1914 ppb
BEC = 0.638 ppb

Weight: <None>
Min Conc: <None>

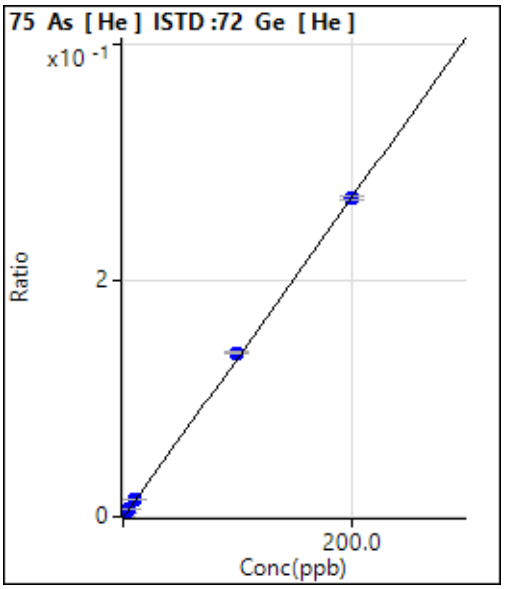
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	29482.27	0.0105	P	3.5	
2	☐	2.000	2.306	38655.20	0.0138	P	1.6	15.3
3	☐	5.000	5.508	50975.19	0.0184	P	2.2	10.2
4	☐	10.000	11.377	73695.32	0.0268	P	1.5	13.8
5	☐	100.000	101.157	412913.42	0.1558	P	1.5	1.2
6	☐	200.000	199.337	750934.13	0.2969	P	1.2	-0.3

y = 0.0014 * x + 0.0105
R = 1.0000
DL = 0.7722 ppb
BEC = 7.281 ppb

Weight: <None>
Min Conc: <None>

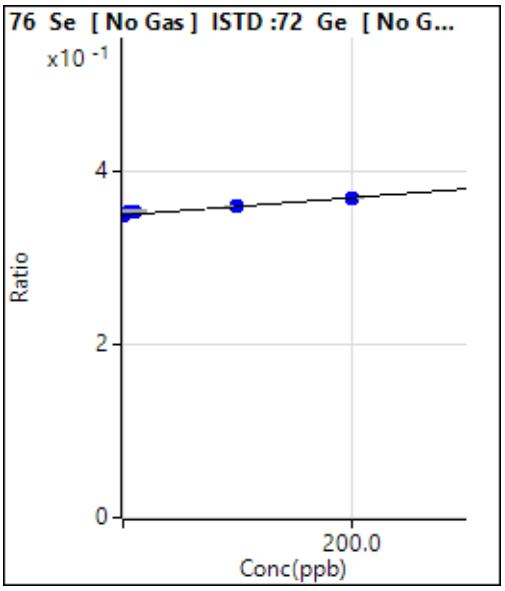


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	304.45	0.0004	P	10.9	
2	☐	2.000	1.898	2394.67	0.0029	P	4.1	-5.1
3	☐	5.000	4.859	5637.85	0.0070	P	2.6	-2.8
4	☐	10.000	10.325	11467.06	0.0144	P	1.0	3.2
5	☐	100.000	102.162	107620.06	0.1388	P	0.8	2.2
6	☐	200.000	198.907	202569.90	0.2699	P	1.4	-0.5

y = 0.0014 * x + 3.7225E-004
R = 0.9999
DL = 0.08999 ppb
BEC = 0.2747 ppb

Weight: <None>
Min Conc: <None>

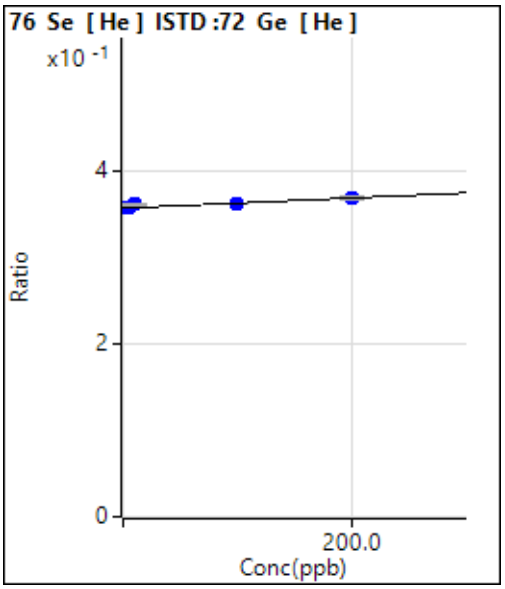
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	986809.18	0.3502	P	0.2	
2	☐	2.000	13.857	986693.01	0.3516	P	0.7	592.9
3	☐	5.000	46.490	984590.25	0.3549	P	0.5	829.8
4	☐	10.000	42.520	974528.03	0.3545	P	0.6	325.2
5	☐	100.000	110.349	957960.61	0.3615	P	0.1	10.3
6	☐	200.000	192.044	935588.92	0.3698	P	0.5	-4.0

y = 1.0241E-004 * x + 0.3502
R = 0.9777
DL = 22.41 ppb
BEC = 3419 ppb

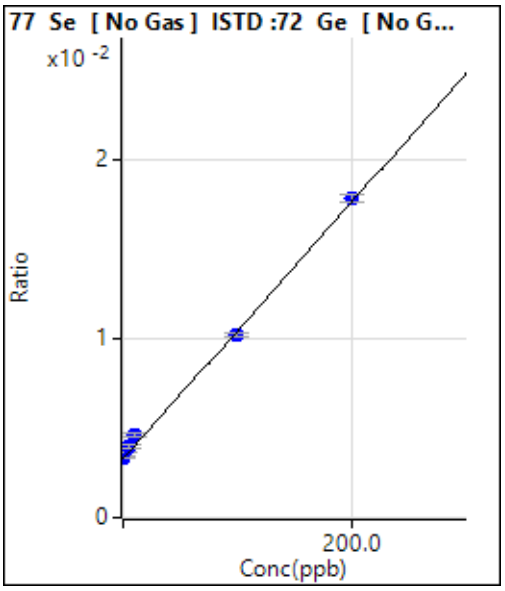
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	292004.58	0.3570	P	0.9	
2	☐	2.000	-3.977	290168.21	0.3568	P	0.4	-298.9
3	☐	5.000	19.753	290346.01	0.3582	P	0.3	295.1
4	☐	10.000	68.581	288298.83	0.3611	P	0.4	585.8
5	☐	100.000	95.418	281218.82	0.3627	P	0.2	-4.6
6	☐	200.000	199.053	276852.01	0.3689	P	0.9	-0.5

y = 5.9602E-005 * x + 0.3570
R = 0.9529
DL = 152.8 ppb
BEC = 5990 ppb

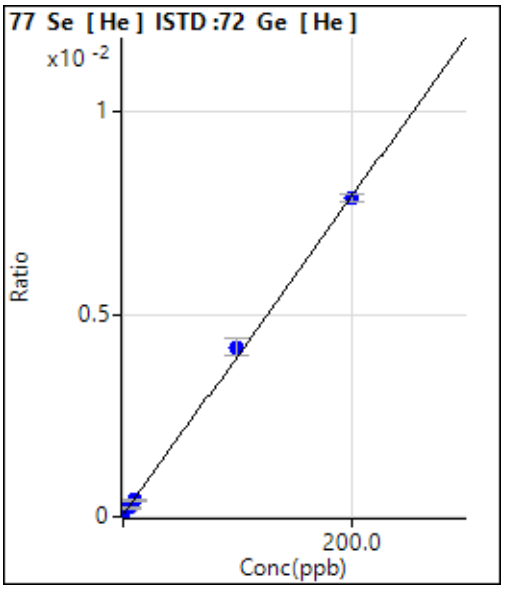
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9550.26	0.0034	P	3.1	
2	☐	2.000	5.447	10607.66	0.0038	P	4.8	172.3
3	☐	5.000	8.950	11184.78	0.0040	P	4.9	79.0
4	☐	10.000	17.191	12712.79	0.0046	P	3.0	71.9
5	☐	100.000	95.485	27174.01	0.0103	P	2.4	-4.5
6	☐	200.000	201.765	45265.46	0.0179	P	2.3	0.9

y = 7.1898E-005 * x + 0.0034
R = 0.9989
DL = 4.422 ppb
BEC = 47.13 ppb

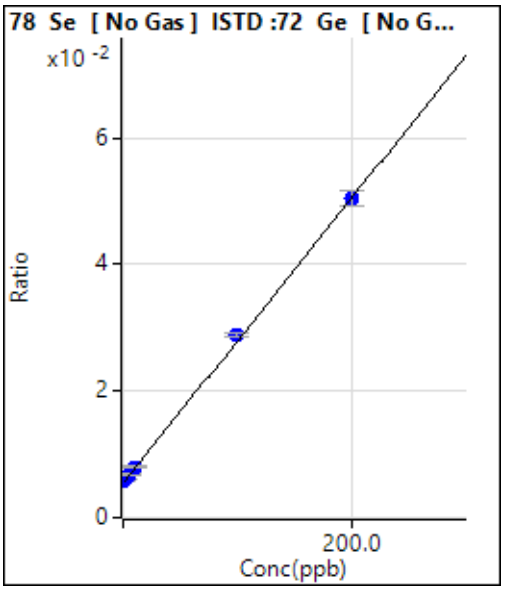
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0001	P	24.6	
2	☐	2.000	2.511	150.00	0.0002	P	30.4	25.6
3	☐	5.000	3.261	173.33	0.0002	P	3.5	-34.8
4	☐	10.000	8.335	330.01	0.0004	P	16.2	-16.7
5	☐	100.000	104.203	3243.79	0.0042	P	10.6	4.2
6	☐	200.000	198.020	5911.38	0.0079	P	2.0	-1.0

y = 3.9337E-005 * x + 8.5562E-005
R = 0.9996
DL = 1.604 ppb
BEC = 2.175 ppb

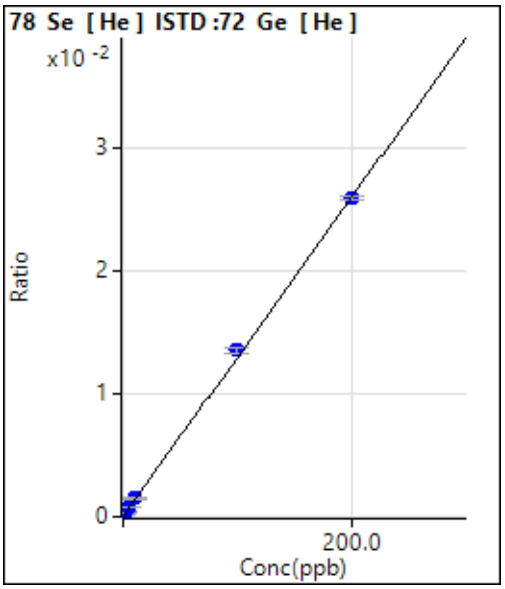
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16149.81	0.0057	P	2.3	
2	☐	2.000	1.177	16823.95	0.0060	P	1.6	-41.2
3	☐	5.000	4.475	18689.68	0.0067	P	3.9	-10.5
4	☐	10.000	10.179	22044.77	0.0080	P	3.7	1.8
5	☐	100.000	102.471	76262.94	0.0288	P	2.2	2.5
6	☐	200.000	198.777	127547.48	0.0504	P	4.3	-0.6

y = 2.2489E-004 * x + 0.0057
R = 0.9999
DL = 1.74 ppb
BEC = 25.48 ppb

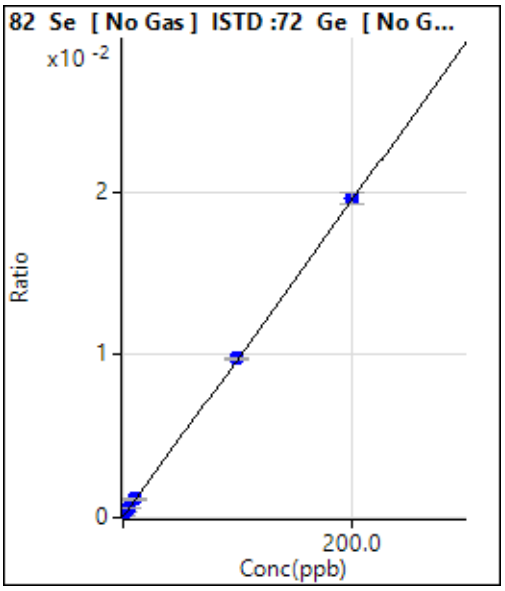
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	138.00	0.0002	P	5.3	
2	☐	2.000	1.693	316.00	0.0004	P	10.5	-15.3
3	☐	5.000	4.551	615.35	0.0008	P	0.9	-9.0
4	☐	10.000	10.163	1187.39	0.0015	P	2.4	1.6
5	☐	100.000	102.912	10482.04	0.0135	P	2.9	2.9
6	☐	200.000	198.550	19459.21	0.0259	P	1.8	-0.7

y = 1.2973E-004 * x + 1.6872E-004
R = 0.9998
DL = 0.2064 ppb
BEC = 1.301 ppb

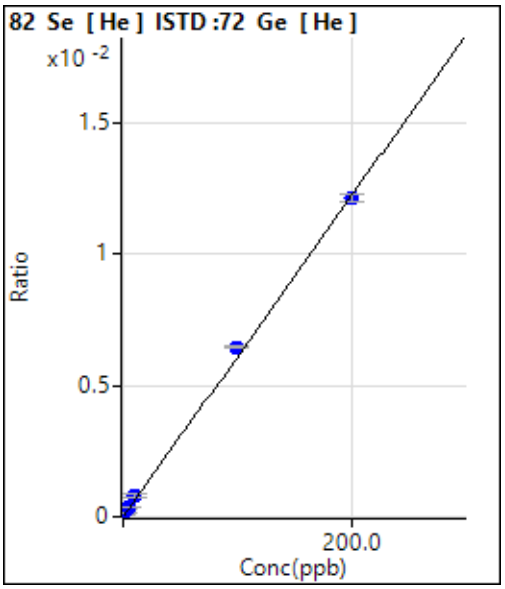
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	3.6	
2	☐	2.000	2.014	963.38	0.0003	P	6.2	0.7
3	☐	5.000	4.844	1713.46	0.0006	P	4.8	-3.1
4	☐	10.000	10.130	3107.08	0.0011	P	3.2	1.3
5	☐	100.000	98.961	25824.77	0.0097	P	1.9	-1.0
6	☐	200.000	200.517	49553.97	0.0196	P	3.4	0.3

y = 9.6974E-005 * x + 1.4785E-004
R = 1.0000
DL = 0.1636 ppb
BEC = 1.525 ppb

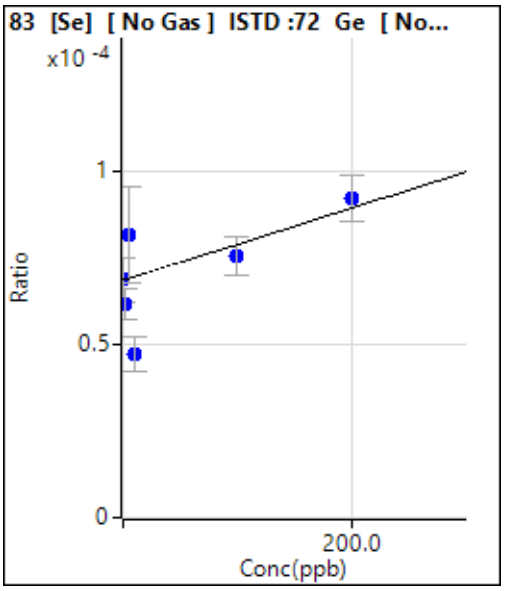
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	44.5	
2	☐	2.000	2.685	180.00	0.0002	P	41.8	34.3
3	☐	5.000	4.988	293.34	0.0004	P	3.3	-0.2
4	☐	10.000	12.258	643.36	0.0008	P	24.4	22.6
5	☐	100.000	104.690	5004.34	0.0065	P	0.7	4.7
6	☐	200.000	197.535	9103.22	0.0121	P	2.3	-1.2

y = 6.1104E-005 * x + 5.7039E-005
R = 0.9996
DL = 1.245 ppb
BEC = 0.9335 ppb

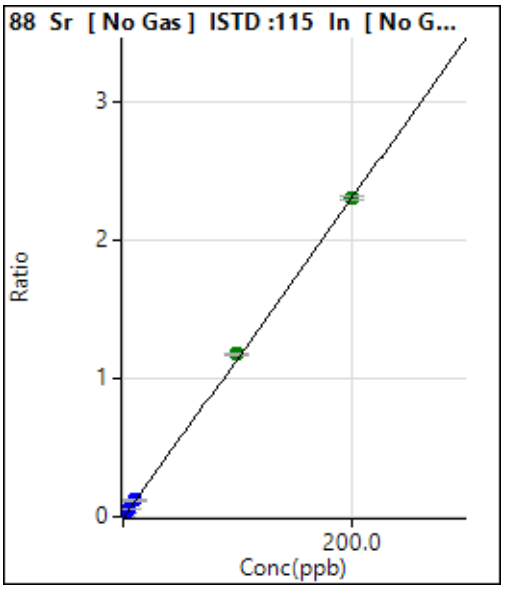
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	18.5	
2	☐	2.000	-65.955	173.33	0.0001	P	14.0	-3397.8
3	☐	5.000	125.292	226.67	0.0001	P	33.8	2405.8
4	☐	10.000	-204.074	130.00	0.0000	P	20.2	-2140.7
5	☐	100.000	65.277	200.01	0.0001	P	14.9	-34.7
6	☐	200.000	225.737	233.34	0.0001	P	15.0	12.9

y = 1.0460E-007 * x + 6.8631E-005
R = 0.6893
DL = 364.3 ppb
BEC = 656.1 ppb

Weight: <None>
Min Conc: <None>

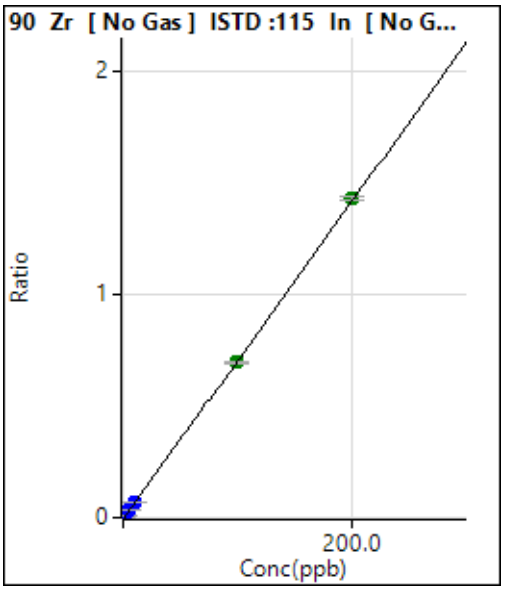


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3007.07	0.0007	P	5.8	
2	☐	2.000	2.008	97146.72	0.0240	P	1.7	0.4
3	☐	5.000	4.997	235511.23	0.0585	P	2.4	-0.1
4	☐	10.000	10.147	470997.78	0.1181	P	0.7	1.5
5	☐	100.000	101.449	4484236.50	1.1736	A	1.4	1.4
6	☐	200.000	199.268	8472793.00	2.3045	A	1.7	-0.4

y = 0.0116 * x + 7.4438E-004
R = 1.0000
DL = 0.01122 ppb
BEC = 0.06439 ppb

Weight: <None>
Min Conc: <None>

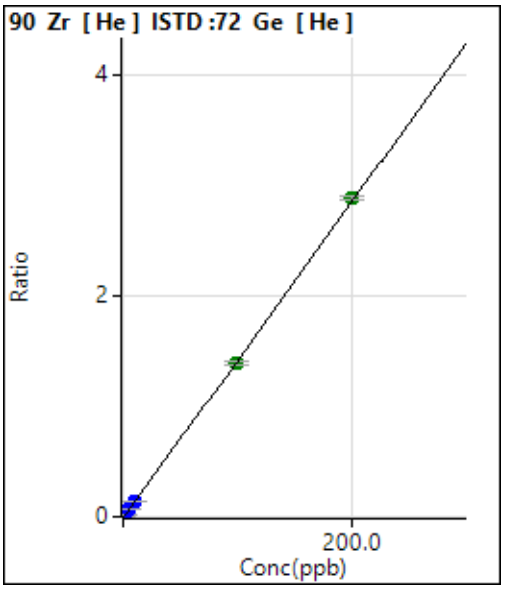
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1166.74	0.0003	P	4.0	
2	☐	2.000	1.649	48681.20	0.0120	P	1.3	-17.5
3	☐	5.000	4.397	126925.13	0.0315	P	2.1	-12.1
4	☐	10.000	9.435	268650.03	0.0673	P	1.9	-5.6
5	☐	100.000	97.802	2656536.42	0.6953	A	1.6	-2.2
6	☐	200.000	201.146	5256189.19	1.4296	A	1.4	0.6

y = 0.0071 * x + 2.8879E-004
R = 0.9999
DL = 0.004908 ppb
BEC = 0.04064 ppb

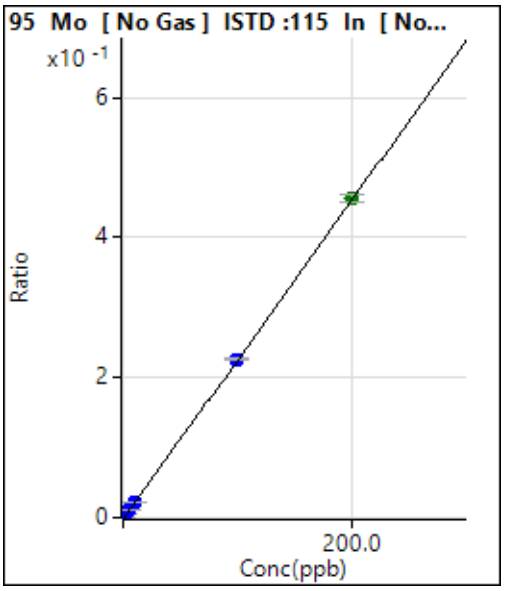
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1580.13	0.0019	P	5.8	
2	☐	2.000	1.649	20786.23	0.0256	P	3.7	-17.6
3	☐	5.000	4.345	52037.15	0.0642	P	0.9	-13.1
4	☐	10.000	9.446	109594.93	0.1373	P	0.9	-5.5
5	☐	100.000	96.984	1078872.93	1.3915	A	1.9	-3.0
6	☐	200.000	201.556	2168912.26	2.8898	A	1.2	0.8

y = 0.0143 * x + 0.0019
R = 0.9999
DL = 0.02339 ppb
BEC = 0.1348 ppb

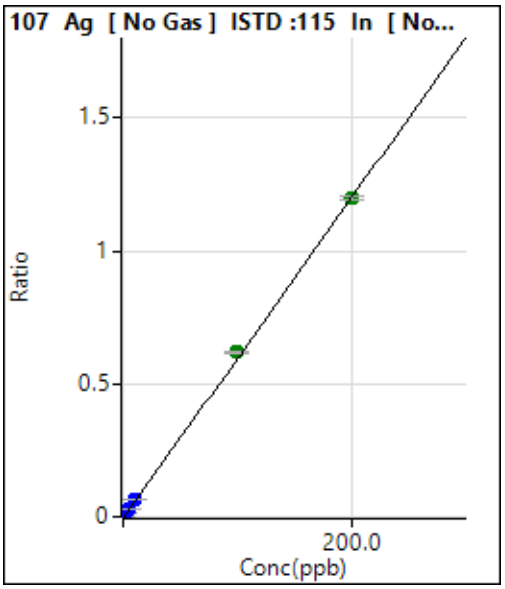
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116.67	0.0000	P	16.9	
2	☐	2.000	1.914	17771.87	0.0044	P	2.3	-4.3
3	☐	5.000	4.799	44068.87	0.0109	P	2.8	-4.0
4	☐	10.000	9.833	89384.91	0.0224	P	1.4	-1.7
5	☐	100.000	99.296	863462.44	0.2260	P	1.3	-0.7
6	☐	200.000	200.366	1676413.98	0.4560	A	1.9	0.2

y = 0.0023 * x + 2.8850E-005
R = 1.0000
DL = 0.00643 ppb
BEC = 0.01268 ppb

Weight: <None>
Min Conc: <None>

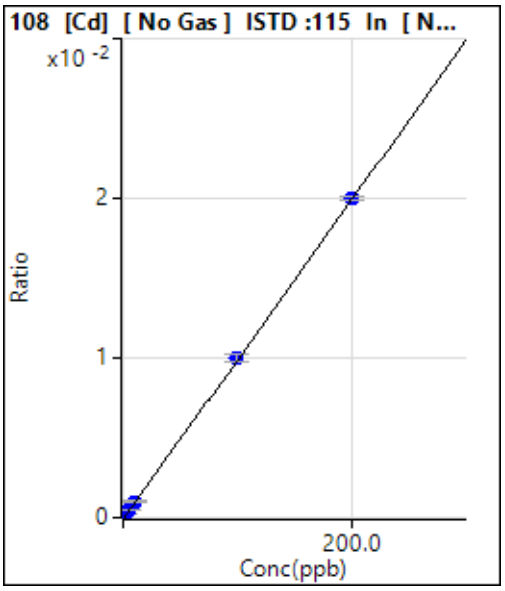


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0001	P	12.6	
2	☐	2.000	2.080	51338.61	0.0127	P	2.5	4.0
3	☐	5.000	5.047	123017.80	0.0306	P	1.6	0.9
4	☐	10.000	10.336	249277.87	0.0625	P	1.4	3.4
5	☐	100.000	102.421	2361853.56	0.6181	A	1.2	2.4
6	☐	200.000	198.771	4410141.29	1.1995	A	1.2	-0.6

y = 0.0060 * x + 1.1147E-004
R = 0.9999
DL = 0.007005 ppb
BEC = 0.01847 ppb

Weight: <None>
Min Conc: <None>

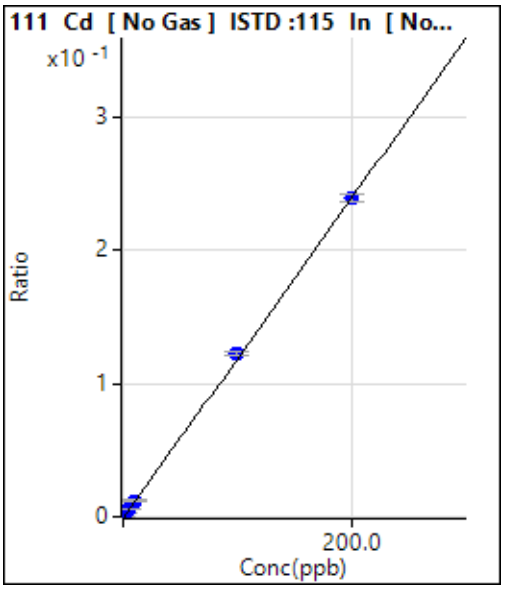
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	2.333	946.72	0.0002	P	6.5	16.7
3	☐	5.000	4.719	1900.18	0.0005	P	10.7	-5.6
4	☐	10.000	9.973	3980.68	0.0010	P	9.3	-0.3
5	☐	100.000	99.949	38215.00	0.0100	P	4.1	-0.1
6	☐	200.000	200.030	73595.60	0.0200	P	1.6	0.0

y = 1.0007E-004 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

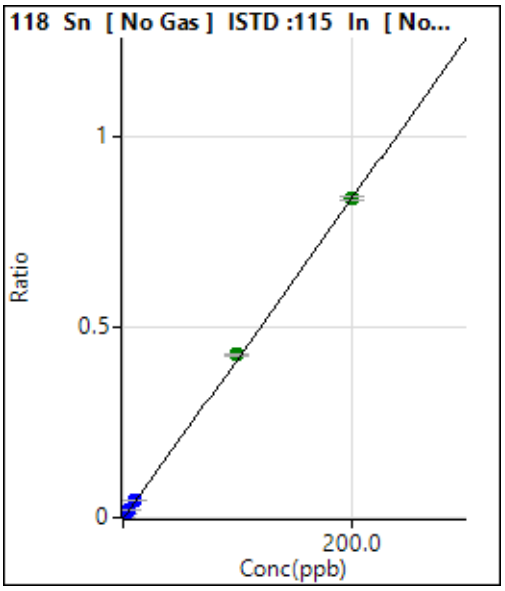
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.984	9665.32	0.0024	P	4.4	-0.8
3	☐	5.000	5.087	24597.94	0.0061	P	3.2	1.7
4	☐	10.000	10.163	48707.57	0.0122	P	2.8	1.6
5	☐	100.000	101.819	467296.89	0.1223	P	2.0	1.8
6	☐	200.000	199.080	879105.76	0.2391	P	2.0	-0.5

y = 0.0012 * x + 1.6433E-006
R = 0.9999
DL = 0.003555 ppb
BEC = 0.001368 ppb

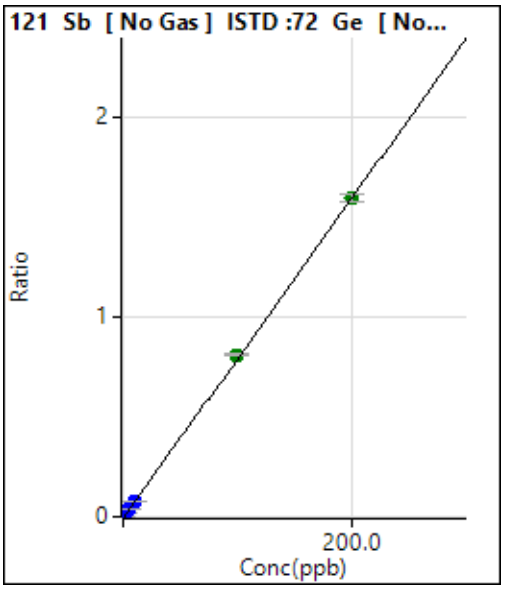
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3984.02	0.0010	P	9.0	
2	☐	2.000	1.925	36764.63	0.0091	P	2.2	-3.8
3	☐	5.000	4.898	86748.47	0.0216	P	1.7	-2.0
4	☐	10.000	10.047	172261.21	0.0432	P	0.7	0.5
5	☐	100.000	101.470	1632027.16	0.4271	A	1.4	1.5
6	☐	200.000	199.266	3080277.66	0.8378	A	1.1	-0.4

y = 0.0042 * x + 9.8668E-004
R = 1.0000
DL = 0.06316 ppb
BEC = 0.235 ppb

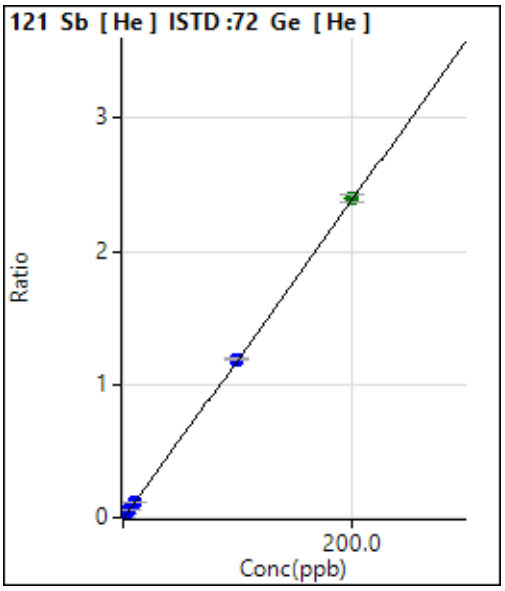
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	663.36	0.0002	P	9.6	
2	☐	2.000	1.930	43929.77	0.0157	P	0.8	-3.5
3	☐	5.000	4.938	110093.88	0.0397	P	2.4	-1.2
4	☐	10.000	9.977	219796.11	0.0800	P	1.5	-0.2
5	☐	100.000	101.315	2146037.68	0.8097	A	0.8	1.3
6	☐	200.000	199.346	4029441.40	1.5930	A	1.9	-0.3

y = 0.0080 * x + 2.3540E-004
R = 1.0000
DL = 0.008508 ppb
BEC = 0.02946 ppb

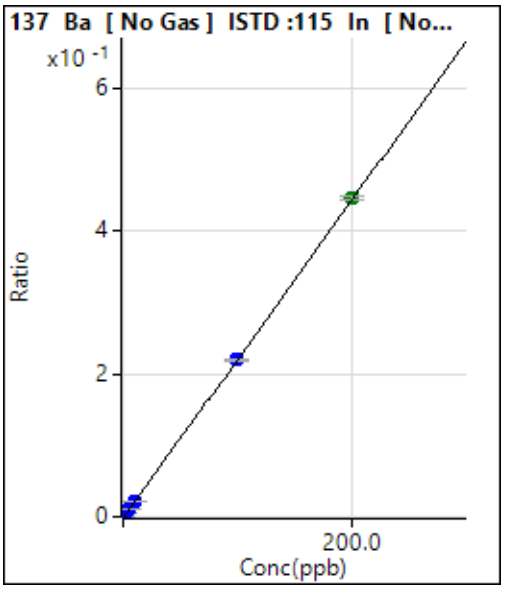
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	22.3	
2	☐	2.000	1.867	18446.43	0.0227	P	1.9	-6.7
3	☐	5.000	4.820	47043.84	0.0580	P	0.5	-3.6
4	☐	10.000	9.988	95720.19	0.1199	P	1.1	-0.1
5	☐	100.000	99.166	920578.97	1.1873	P	1.2	-0.8
6	☐	200.000	200.423	1800814.50	2.3993	A	2.0	0.2

y = 0.0120 * x + 3.3416E-004
R = 1.0000
DL = 0.01865 ppb
BEC = 0.02792 ppb

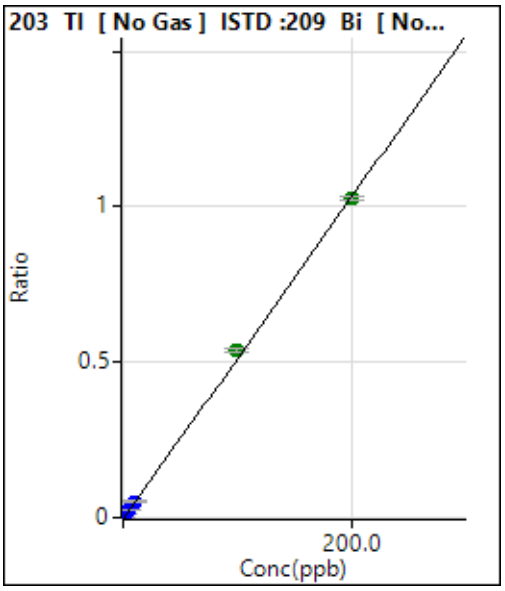
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	14.0	
2	☐	2.000	1.939	18373.16	0.0045	P	3.7	-3.0
3	☐	5.000	4.932	45003.93	0.0112	P	2.3	-1.4
4	☐	10.000	9.837	88107.71	0.0221	P	1.8	-1.6
5	☐	100.000	98.939	840949.78	0.2201	P	1.2	-1.1
6	☐	200.000	200.541	1639314.92	0.4459	A	1.6	0.3

y = 0.0022 * x + 2.2267E-004
R = 1.0000
DL = 0.04203 ppb
BEC = 0.1002 ppb

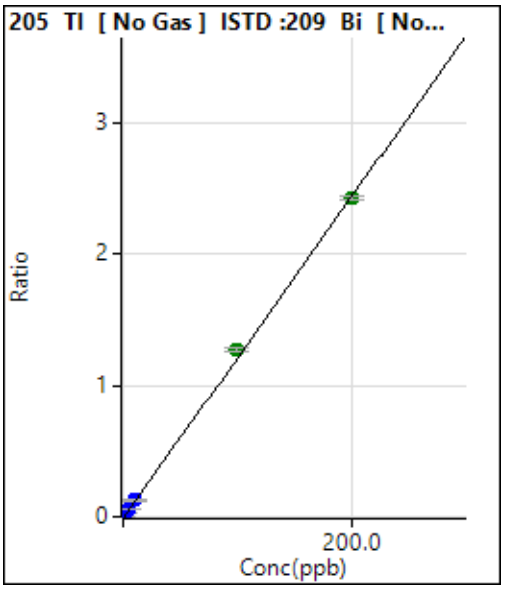
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.01	0.0000	P	21.0	
2	☐	2.000	2.176	50571.55	0.0113	P	2.3	8.8
3	☐	5.000	5.137	118435.75	0.0267	P	1.2	2.7
4	☐	10.000	10.107	231998.64	0.0524	P	1.3	1.1
5	☐	100.000	103.857	2304059.76	0.5385	A	1.9	3.9
6	☐	200.000	198.061	4205366.29	1.0268	A	1.7	-1.0

y = 0.0052 * x + 4.2778E-005
R = 0.9997
DL = 0.005209 ppb
BEC = 0.008252 ppb

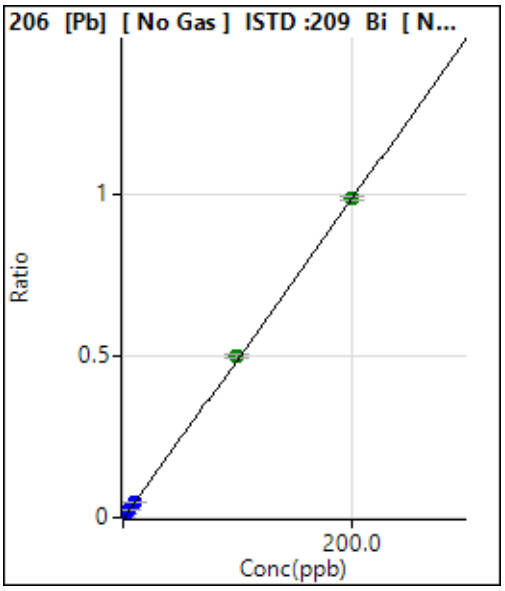
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0001	P	13.1	
2	☐	2.000	2.154	118600.08	0.0266	P	2.0	7.7
3	☐	5.000	5.193	283446.79	0.0638	P	2.3	3.9
4	☐	10.000	10.157	551889.00	0.1248	P	2.2	1.6
5	☐	100.000	103.669	5444053.88	1.2723	A	2.1	3.7
6	☐	200.000	198.152	9959070.27	2.4317	A	1.6	-0.9

y = 0.0123 * x + 1.1716E-004
R = 0.9998
DL = 0.003758 ppb
BEC = 0.009547 ppb

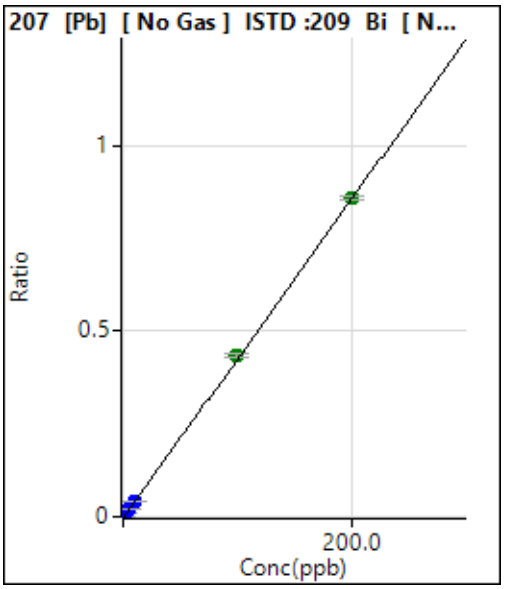
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0001	P	3.1	
2	☐	2.000	1.961	43980.49	0.0098	P	2.1	-1.9
3	☐	5.000	4.902	108329.47	0.0244	P	1.9	-2.0
4	☐	10.000	10.048	220599.62	0.0499	P	0.7	0.5
5	☐	100.000	100.875	2136483.77	0.4993	A	1.7	0.9
6	☐	200.000	199.563	4044745.98	0.9876	A	1.5	-0.2

y = 0.0049 * x + 1.4255E-004
R = 1.0000
DL = 0.002705 ppb
BEC = 0.02881 ppb

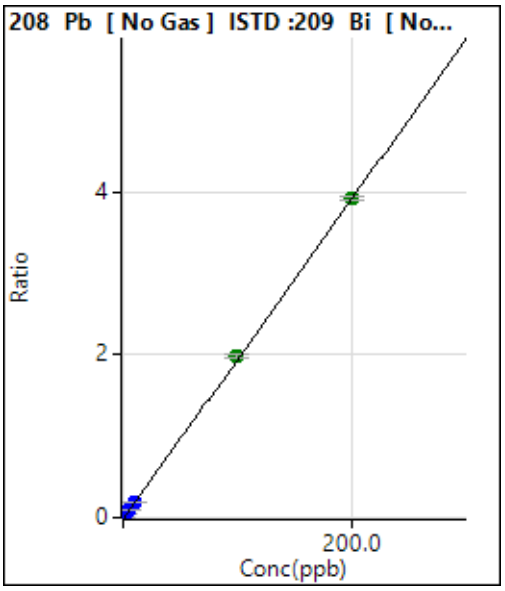
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	516.69	0.0001	P	8.9	
2	☐	2.000	1.966	38245.14	0.0086	P	1.5	-1.7
3	☐	5.000	4.957	95064.08	0.0214	P	2.3	-0.9
4	☐	10.000	10.008	190717.36	0.0431	P	2.1	0.1
5	☐	100.000	100.608	1849939.30	0.4323	A	2.2	0.6
6	☐	200.000	199.697	3514092.76	0.8580	A	1.1	-0.2

y = 0.0043 * x + 1.1632E-004
R = 1.0000
DL = 0.007233 ppb
BEC = 0.02708 ppb

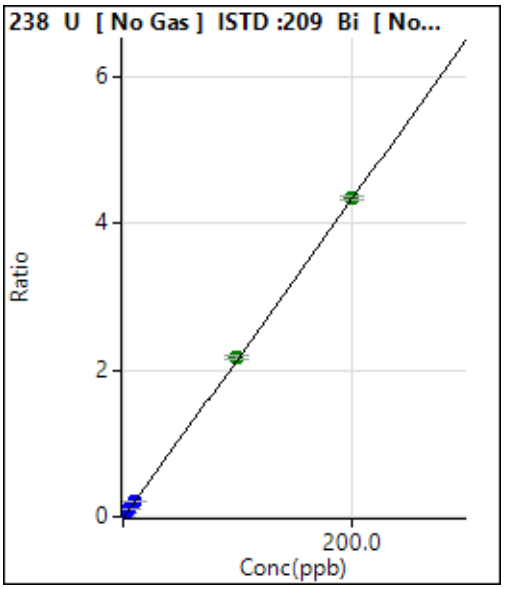
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2453.48	0.0006	P	9.6	
2	☐	2.000	1.971	175694.29	0.0393	P	1.5	-1.5
3	☐	5.000	4.967	436520.08	0.0983	P	0.8	-0.7
4	☐	10.000	10.067	879014.41	0.1987	P	1.4	0.7
5	☐	100.000	100.923	8502516.96	1.9870	A	2.1	0.9
6	☐	200.000	199.536	16087250.90	3.9280	A	1.4	-0.2

y = 0.0197 * x + 5.5256E-004
R = 1.0000
DL = 0.008093 ppb
BEC = 0.02807 ppb

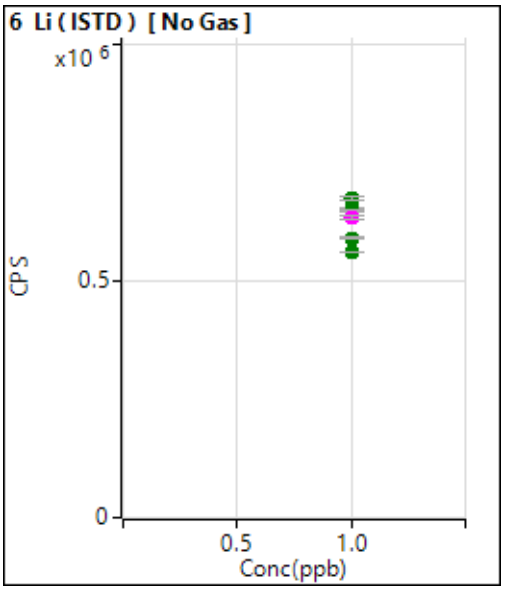
Weight: <None>
Min Conc: <None>



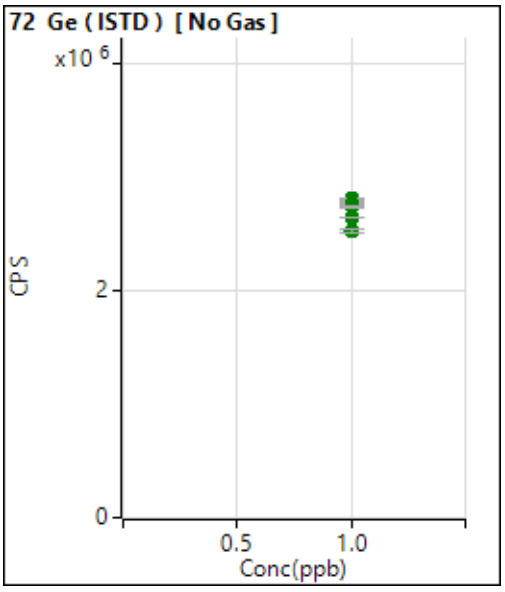
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	946.72	0.0002	P	11.6	
2	☐	2.000	1.861	181783.88	0.0407	P	1.6	-6.9
3	☐	5.000	4.617	446874.67	0.1007	P	1.2	-7.7
4	☐	10.000	9.487	913978.76	0.2066	P	1.6	-5.1
5	☐	100.000	100.029	9312190.48	2.1762	A	1.6	0.0
6	☐	200.000	200.022	17821171.40	4.3514	A	1.6	0.0

y = 0.0218 * x + 2.1323E-004
R = 1.0000
DL = 0.003397 ppb
BEC = 0.009802 ppb

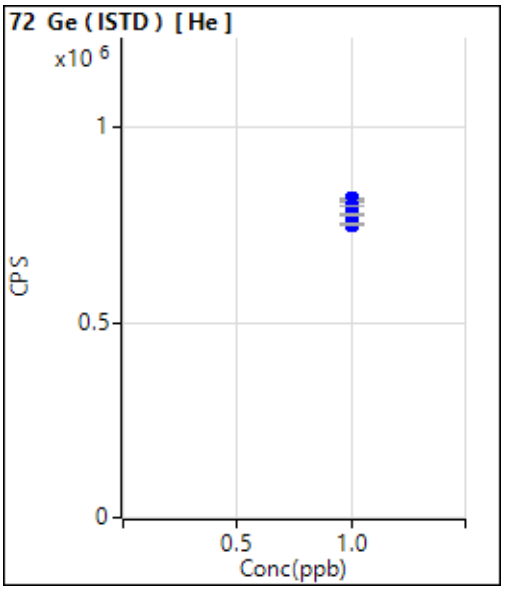
Weight: <None>
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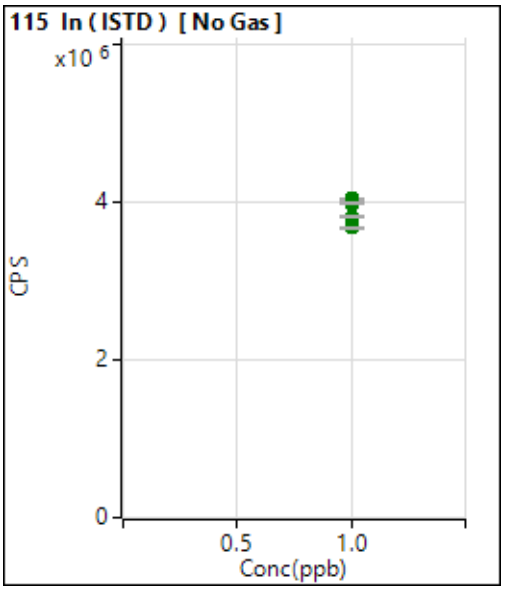
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		676146.54		A	0.9	
2	☐	1.000		654864.22		A	0.4	
3	☐	1.000		649678.19		A	0.7	
4	☐	1.000		635425.95		M	1.2	
5	☐	1.000		591754.24		A	0.4	
6	☐	1.000		561418.97		A	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2818142.46		A	0.5	
2	☐	1.000		2806502.77		A	0.5	
3	☐	1.000		2774129.65		A	0.5	
4	☐	1.000		2748944.44		A	0.7	
5	☐	1.000		2650222.57		A	0.3	
6	☐	1.000		2529720.64		A	0.9	

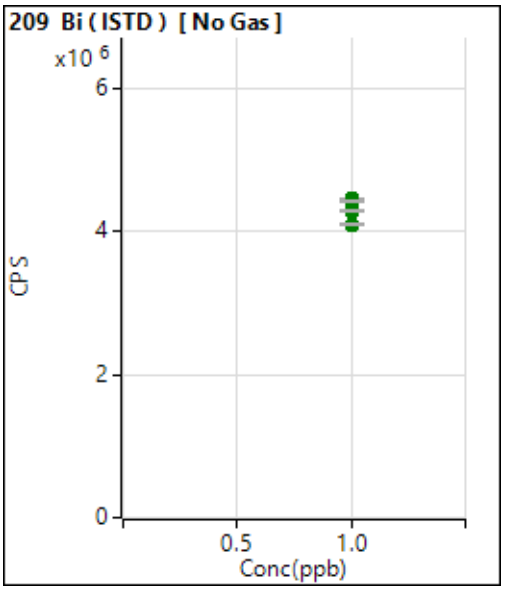


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		817937.77		P	0.3	
2	☐	1.000		813344.18		P	0.5	
3	☐	1.000		810633.24		P	0.9	
4	☐	1.000		798412.41		P	0.2	
5	☐	1.000		775375.07		P	0.4	
6	☐	1.000		750563.14		P	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4040052.29		A	1.0	
2	☐	1.000		4053897.21		A	0.3	
3	☐	1.000		4025000.67		A	0.6	
4	☐	1.000		3989670.88		A	0.4	
5	☐	1.000		3821163.54		A	0.8	
6	☐	1.000		3676850.33		A	0.5	

Calibration for 209_ICV.d



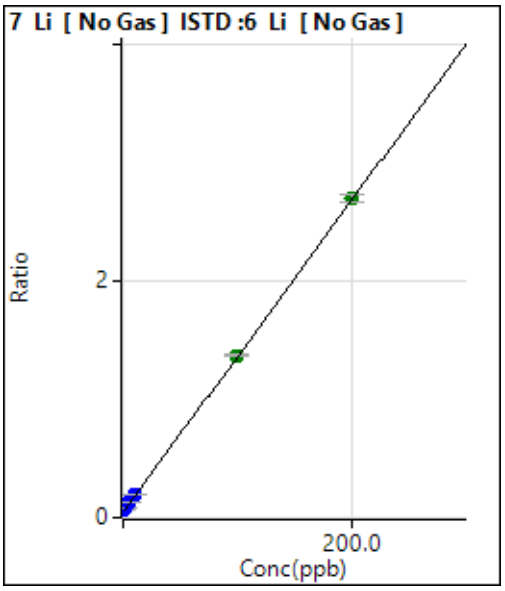
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4442679.10		A	1.1	
2	☐	1.000		4465881.39		A	0.5	
3	☐	1.000		4439558.99		A	0.5	
4	☐	1.000		4424313.06		A	0.7	
5	☐	1.000		4279282.33		A	0.7	
6	☐	1.000		4095807.86		A	0.9	

Calibration for 163_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	156CALB.d	CAL BLK	7/1/2024 5:24:33 PM
2	157CALS.d	2/10/200	7/1/2024 5:27:04 PM
3	158CALS.d	5/25/500	7/1/2024 5:29:35 PM
4	159CALS.d	10/50/100	7/1/2024 5:32:06 PM
5	160CALS.d	100/500/10K	7/1/2024 5:34:37 PM
6	161CALS.d	200/1000/20K	7/1/2024 5:37:08 PM

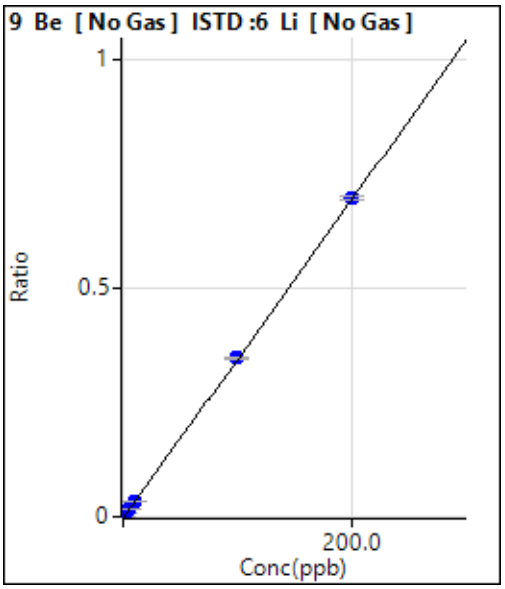
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42264.12	0.0597	P	1.3	
2	☐	2.000	1.950	59064.99	0.0854	P	1.0	-2.5
3	☐	5.000	4.924	83576.35	0.1245	P	1.2	-1.5
4	☐	10.000	9.811	123047.15	0.1889	P	0.9	-1.9
5	☐	100.000	99.472	816100.98	1.3692	A	1.7	-0.5
6	☐	200.000	200.276	1493336.54	2.6963	A	1.9	0.1

y = 0.0132 * x + 0.0597
R = 1.0000
DL = 0.1722 ppb
BEC = 4.535 ppb

Weight: <None>
Min Conc: <None>

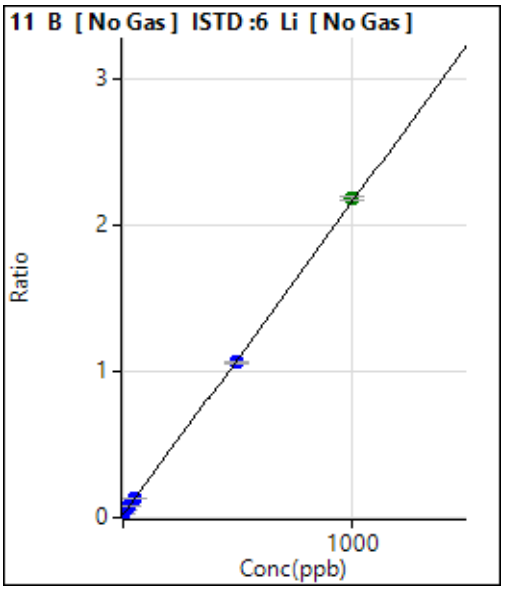


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	27.2	
2	☐	2.000	1.933	4694.14	0.0068	P	3.5	-3.3
3	☐	5.000	4.862	11399.64	0.0170	P	2.9	-2.8
4	☐	10.000	9.708	22060.50	0.0339	P	1.7	-2.9
5	☐	100.000	99.686	206943.22	0.3472	P	1.9	-0.3
6	☐	200.000	200.175	386122.84	0.6971	P	1.1	0.1

y = 0.0035 * x + 5.1670E-005
R = 1.0000
DL = 0.01213 ppb
BEC = 0.01484 ppb

Weight: <None>
Min Conc: <None>

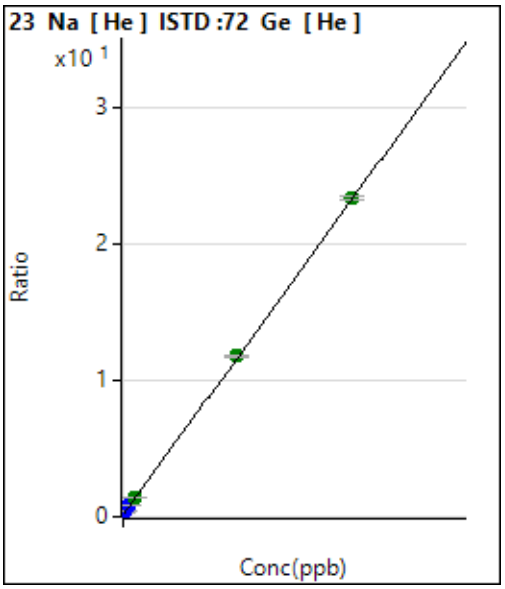
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21718.32	0.0307	P	1.1	
2	☐	10.000	8.579	33888.72	0.0490	P	1.1	-14.2
3	☐	25.000	22.235	52421.16	0.0781	P	1.3	-11.1
4	☐	50.000	46.306	84331.47	0.1294	P	0.3	-7.4
5	☐	500.000	483.266	632606.99	1.0614	P	1.3	-3.3
6	☐	1000.000	1008.635	1208460.82	2.1819	A	0.8	0.9

y = 0.0021 * x + 0.0307
R = 0.9998
DL = 0.4721 ppb
BEC = 14.39 ppb

Weight: <None>
Min Conc: <None>

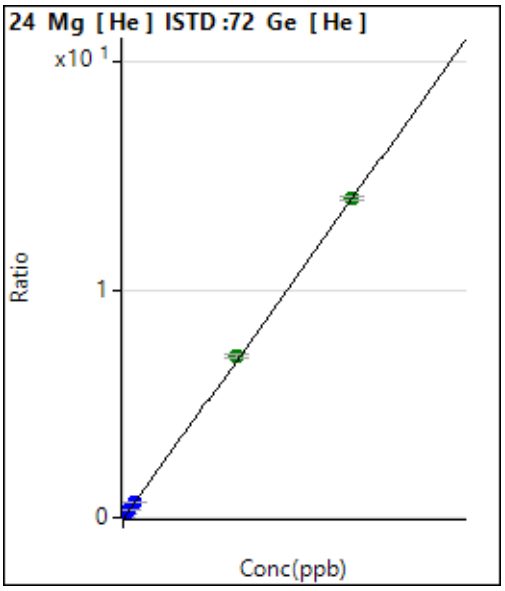


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215663.67	0.2636	P	1.1	
2	☐	200.000	180.054	381030.37	0.4718	P	1.5	-10.0
3	☐	500.000	470.962	641829.85	0.8081	P	1.7	-5.8
4	☐	1000.000	944.323	1058357.77	1.3554	A	1.8	-5.6
5	☐	10000.00	9977.976	8831050.70	11.7999	A	1.6	-0.2
6	☐	20000.00	20014.72	16844299.33	23.4041	A	1.4	0.1

y = 0.0012 * x + 0.2636
R = 1.0000
DL = 7.519 ppb
BEC = 228 ppb

Weight: <None>
Min Conc: <None>

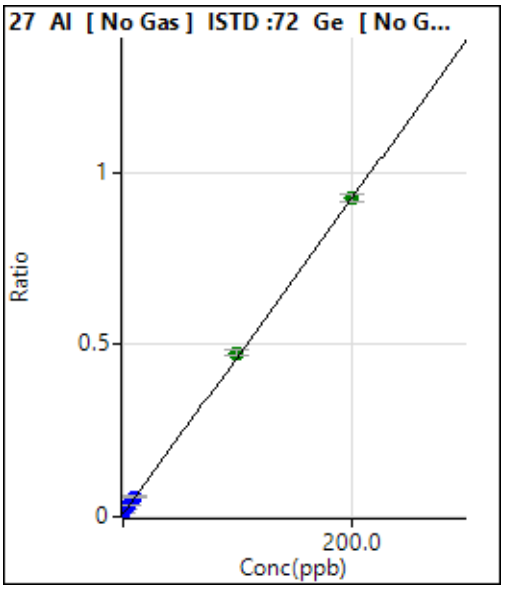
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3347.13	0.0041	P	8.6	
2	☐	200.000	203.655	118880.45	0.1472	P	2.3	1.8
3	☐	500.000	516.794	291664.90	0.3672	P	1.8	3.4
4	☐	1000.000	1002.320	553144.44	0.7084	P	2.3	0.2
5	☐	10000.00	10074.44	5300990.96	7.0833	A	2.0	0.7
6	☐	20000.00	19962.20	10098622.56	14.0314	A	1.3	-0.2

y = 7.0269E-004 * x + 0.0041
R = 1.0000
DL = 1.496 ppb
BEC = 5.822 ppb

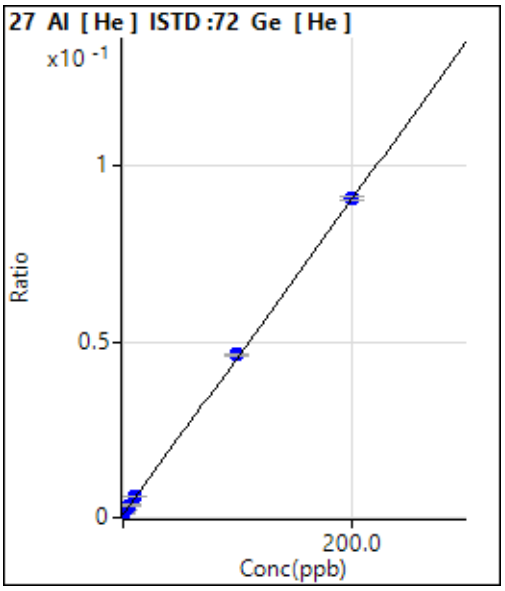
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35331.37	0.0125	P	3.0	
2	☐	2.000	2.075	61517.77	0.0220	P	2.0	3.8
3	☐	5.000	5.053	97817.63	0.0356	P	0.7	1.1
4	☐	10.000	10.042	157647.83	0.0585	P	1.9	0.4
5	☐	100.000	101.315	1211160.84	0.4764	A	3.3	1.3
6	☐	200.000	199.338	2250657.00	0.9253	A	1.9	-0.3

y = 0.0046 * x + 0.0125
R = 1.0000
DL = 0.2461 ppb
BEC = 2.723 ppb

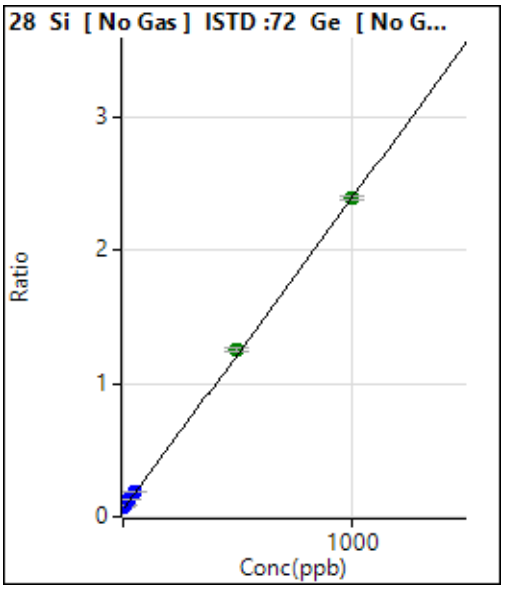
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.73	0.0013	P	9.1	
2	☐	2.000	1.405	1590.12	0.0020	P	4.8	-29.8
3	☐	5.000	4.940	2820.33	0.0036	P	8.7	-1.2
4	☐	10.000	9.941	4520.81	0.0058	P	0.8	-0.6
5	☐	100.000	100.326	34602.82	0.0462	P	1.9	0.3
6	☐	200.000	199.848	65334.74	0.0908	P	1.7	-0.1

y = 4.4754E-004 * x + 0.0013
R = 1.0000
DL = 0.8189 ppb
BEC = 2.995 ppb

Weight: <None>
Min Conc: <None>

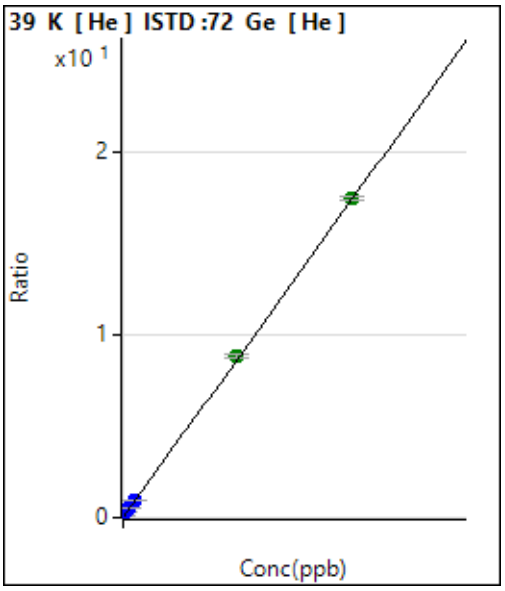


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	187836.87	0.0663	P	1.1	
2	☐	10.000	10.424	253718.27	0.0906	P	0.5	4.2
3	☐	25.000	25.553	345963.11	0.1259	P	0.6	2.2
4	☐	50.000	51.063	500271.88	0.1855	P	1.8	2.1
5	☐	500.000	507.315	3179637.76	1.2507	A	2.9	1.5
6	☐	1000.000	996.271	5818730.95	2.3922	A	1.6	-0.4

y = 0.0023 * x + 0.0663
R = 1.0000
DL = 0.9517 ppb
BEC = 28.4 ppb

Weight: <None>
Min Conc: <None>

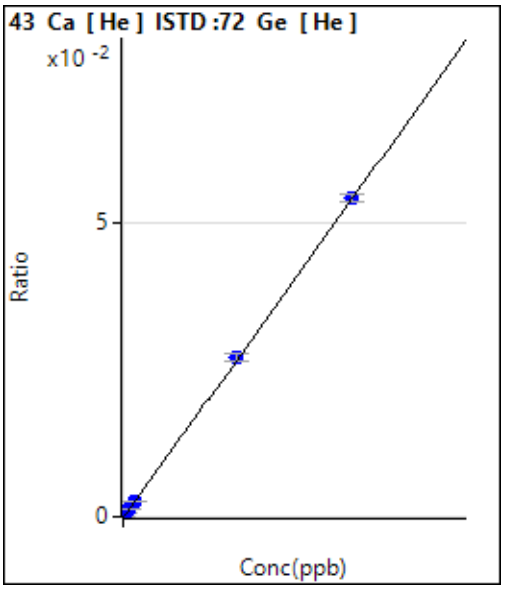
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80914.02	0.0989	P	0.5	
2	☐	200.000	204.750	223390.15	0.2766	P	2.1	2.4
3	☐	500.000	519.028	436318.40	0.5494	P	2.0	3.8
4	☐	1000.000	998.254	753720.61	0.9653	P	2.4	-0.2
5	☐	10000.00	10018.27	6581369.07	8.7938	A	2.4	0.2
6	☐	20000.00	19990.42	12558216.06	17.4486	A	0.9	0.0

y = 8.6790E-004 * x + 0.0989
R = 1.0000
DL = 1.549 ppb
BEC = 114 ppb

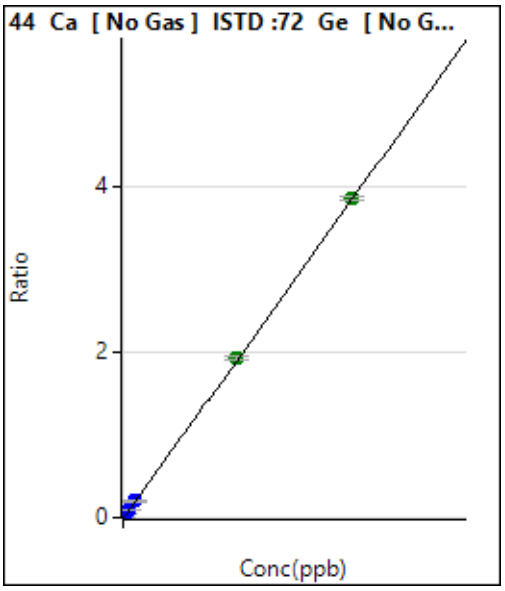
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	34.4	
2	☐	200.000	221.938	520.02	0.0006	P	3.8	11.0
3	☐	500.000	499.209	1110.06	0.0014	P	10.6	-0.2
4	☐	1000.000	949.468	2046.86	0.0026	P	3.6	-5.1
5	☐	10000.00	10008.88	20388.49	0.0272	P	5.0	0.1
6	☐	20000.00	19997.88	39151.96	0.0544	P	2.3	0.0

y = 2.7181E-006 * x + 4.0717E-005
R = 1.0000
DL = 15.47 ppb
BEC = 14.98 ppb

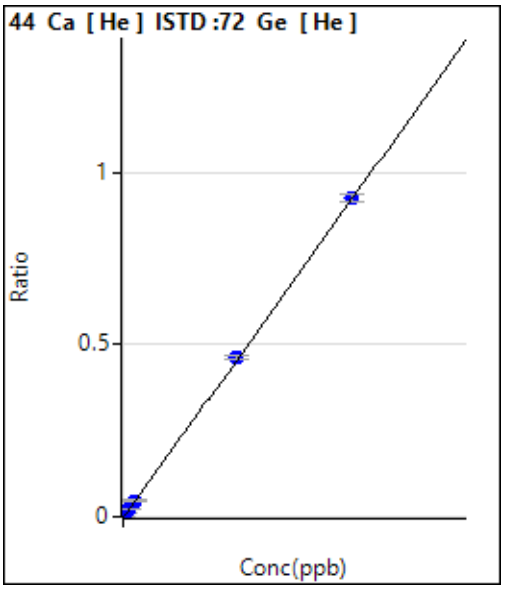
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13326.57	0.0047	P	3.3	
2	☐	200.000	204.493	123742.55	0.0442	P	0.9	2.2
3	☐	500.000	511.953	284548.71	0.1036	P	1.6	2.4
4	☐	1000.000	1010.399	538985.91	0.1999	P	2.2	1.0
5	☐	10000.00	9998.754	4921919.09	1.9359	A	2.8	0.0
6	☐	20000.00	19999.75	9407650.49	3.8676	A	1.7	0.0

y = 1.9315E-004 * x + 0.0047
R = 1.0000
DL = 2.417 ppb
BEC = 24.35 ppb

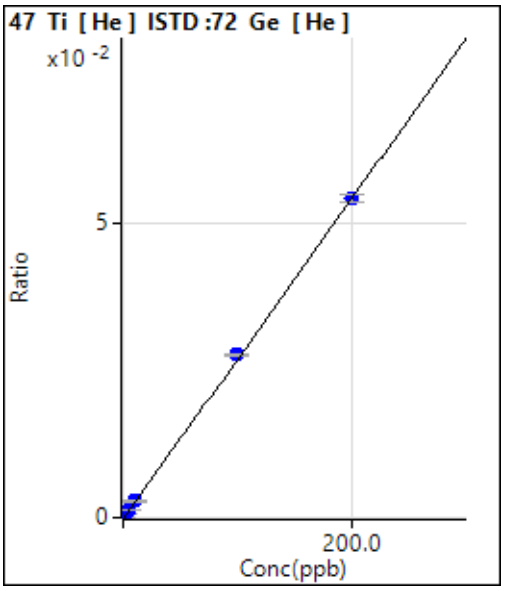
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0007	P	11.1	
2	☐	200.000	204.410	8225.89	0.0102	P	4.4	2.2
3	☐	500.000	506.839	19223.59	0.0242	P	3.8	1.4
4	☐	1000.000	1007.081	37002.77	0.0474	P	2.6	0.7
5	☐	10000.00	10013.44	347865.00	0.4648	P	2.6	0.1
6	☐	20000.00	19992.71	667409.34	0.9273	P	1.9	0.0

y = 4.6348E-005 * x + 7.1306E-004
R = 1.0000
DL = 5.134 ppb
BEC = 15.38 ppb

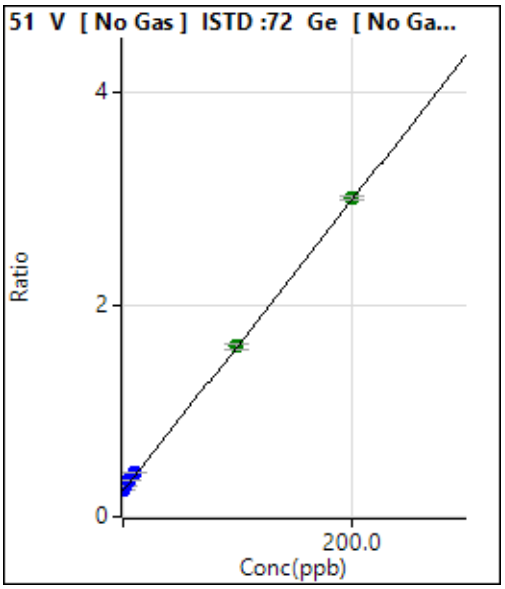
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.909	436.68	0.0005	P	8.9	-4.6
3	☐	5.000	4.591	1010.06	0.0013	P	3.4	-8.2
4	☐	10.000	10.170	2180.21	0.0028	P	5.1	1.7
5	☐	100.000	101.471	20715.68	0.0277	P	2.0	1.5
6	☐	200.000	199.267	39105.39	0.0543	P	1.8	-0.4

y = 2.7257E-004 * x + 2.0322E-005
R = 1.0000
DL = 0.2046 ppb
BEC = 0.07456 ppb

Weight: <None>
Min Conc: <None>

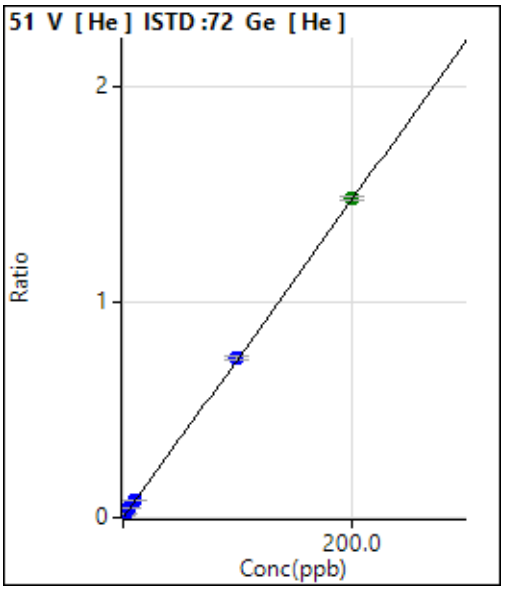


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	731962.02	0.2583	P	1.2	
2	☐	2.000	2.550	821022.97	0.2933	P	0.6	27.5
3	☐	5.000	6.029	936552.71	0.3410	P	1.0	20.6
4	☐	10.000	11.482	1121095.36	0.4157	P	1.2	14.8
5	☐	100.000	98.528	4090317.01	1.6088	A	3.2	-1.5
6	☐	200.000	200.631	7317403.13	3.0083	A	1.6	0.3

y = 0.0137 * x + 0.2583
R = 0.9999
DL = 0.6599 ppb
BEC = 18.85 ppb

Weight: <None>
Min Conc: <None>

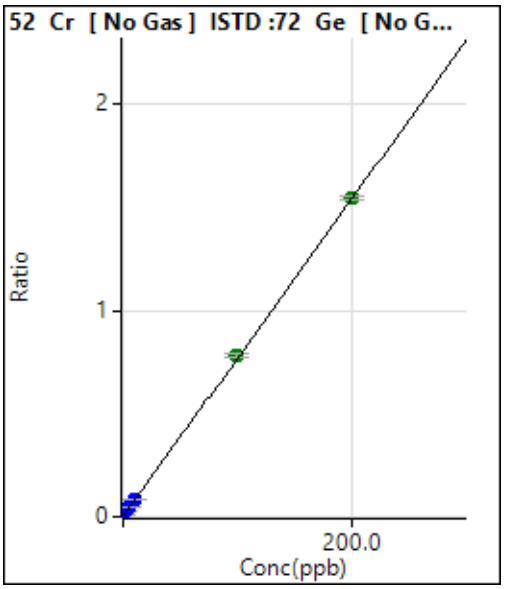
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5069.84	0.0062	P	0.8	
2	☐	2.000	2.011	16997.11	0.0210	P	2.8	0.5
3	☐	5.000	4.998	34241.06	0.0431	P	2.1	0.0
4	☐	10.000	9.782	61249.96	0.0784	P	2.0	-2.2
5	☐	100.000	99.808	556315.29	0.7434	P	2.0	-0.2
6	☐	200.000	200.107	1068152.46	1.4841	A	1.7	0.1

y = 0.0074 * x + 0.0062
R = 1.0000
DL = 0.019 ppb
BEC = 0.8391 ppb

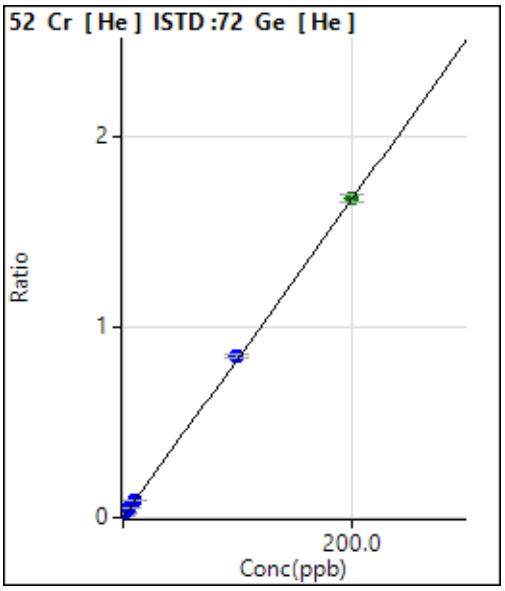
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26365.32	0.0093	P	2.8	
2	☐	2.000	2.090	71061.86	0.0254	P	0.7	4.5
3	☐	5.000	5.220	135864.82	0.0495	P	1.8	4.4
4	☐	10.000	10.107	234764.62	0.0871	P	2.5	1.1
5	☐	100.000	100.522	1989602.42	0.7825	A	2.5	0.5
6	☐	200.000	199.727	3759688.80	1.5456	A	1.4	-0.1

y = 0.0077 * x + 0.0093
R = 1.0000
DL = 0.1017 ppb
BEC = 1.21 ppb

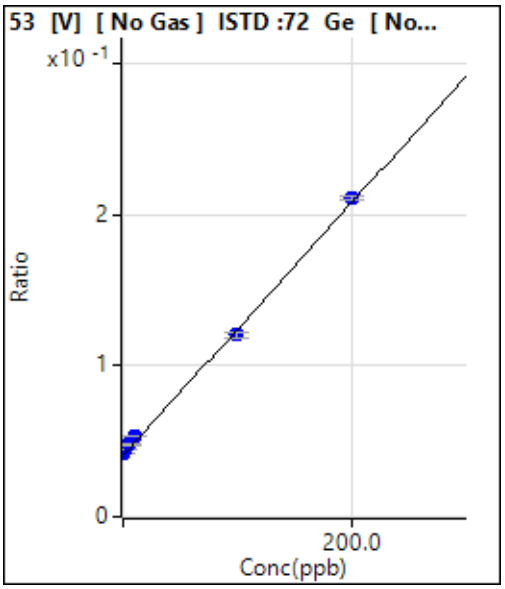
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6845.14	0.0084	P	3.2	
2	☐	2.000	2.028	20418.59	0.0253	P	3.1	1.4
3	☐	5.000	5.115	40532.94	0.0510	P	3.0	2.3
4	☐	10.000	9.989	71597.76	0.0917	P	1.8	-0.1
5	☐	100.000	100.334	632624.74	0.8453	P	2.2	0.3
6	☐	200.000	199.831	1205715.71	1.6753	A	2.3	-0.1

y = 0.0083 * x + 0.0084
R = 1.0000
DL = 0.09646 ppb
BEC = 1.003 ppb

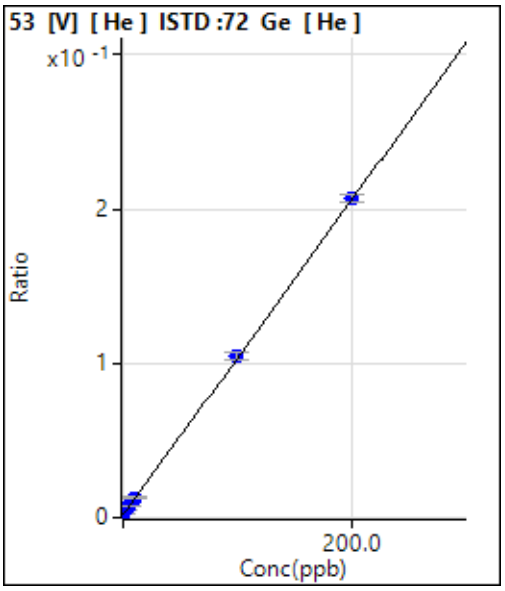
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	118541.11	0.0418	P	0.9	
2	☐	2.000	3.546	125421.13	0.0448	P	0.7	77.3
3	☐	5.000	7.472	132075.74	0.0481	P	1.6	49.4
4	☐	10.000	13.822	144003.43	0.0534	P	1.1	38.2
5	☐	100.000	94.275	306864.11	0.1207	P	3.1	-5.7
6	☐	200.000	202.594	513962.45	0.2113	P	1.3	1.3

y = 8.3645E-004 * x + 0.0418
R = 0.9991
DL = 1.379 ppb
BEC = 50.02 ppb

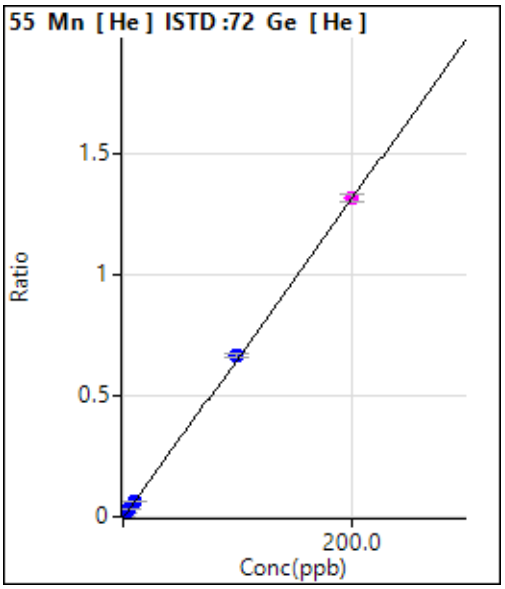
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2246.90	0.0027	P	2.8	
2	☐	2.000	1.826	3723.91	0.0046	P	2.0	-8.7
3	☐	5.000	4.993	6228.19	0.0078	P	4.2	-0.1
4	☐	10.000	10.077	10173.91	0.0130	P	3.5	0.8
5	☐	100.000	99.881	78331.27	0.1047	P	3.8	-0.1
6	☐	200.000	200.057	148896.70	0.2069	P	2.3	0.0

y = 0.0010 * x + 0.0027
R = 1.0000
DL = 0.2276 ppb
BEC = 2.692 ppb

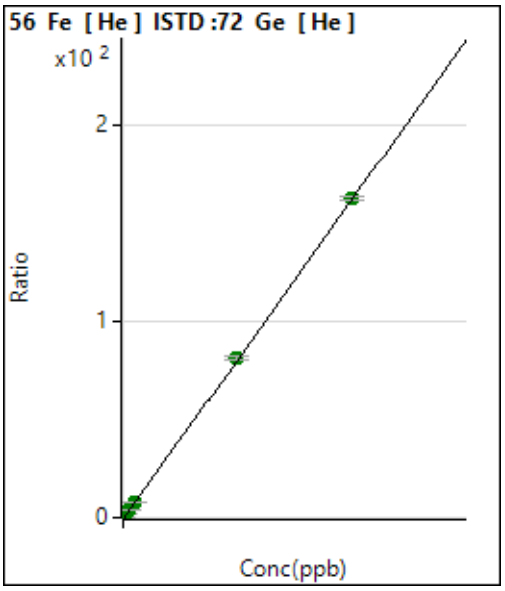
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	773.37	0.0009	P	2.7	
2	☐	2.000	1.983	11314.81	0.0140	P	4.0	-0.9
3	☐	5.000	4.980	26812.96	0.0338	P	1.2	-0.4
4	☐	10.000	9.910	51720.51	0.0662	P	2.1	-0.9
5	☐	100.000	100.600	496763.64	0.6638	P	2.2	0.6
6	☐	200.000	199.705	947676.76	1.3168	M	2.4	-0.1

y = 0.0066 * x + 9.4537E-004
R = 1.0000
DL = 0.01162 ppb
BEC = 0.1435 ppb

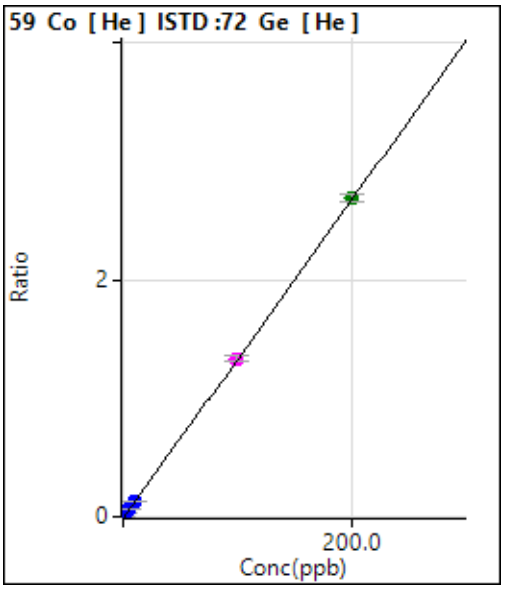
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13730.28	0.0168	P	1.5	
2	☐	200.000	198.797	1320538.76	1.6351	A	2.4	-0.6
3	☐	500.000	505.734	3283166.31	4.1339	A	1.8	1.1
4	☐	1000.000	993.722	6329612.61	8.1065	A	2.7	-0.6
5	☐	10000.00	9982.372	60828345.76	81.2811	A	2.3	-0.2
6	☐	20000.00	20008.99	117245044.9	162.905	A	1.6	0.0

y = 0.0081 * x + 0.0168
R = 1.0000
DL = 0.08983 ppb
BEC = 2.062 ppb

Weight: <None>
Min Conc: <None>

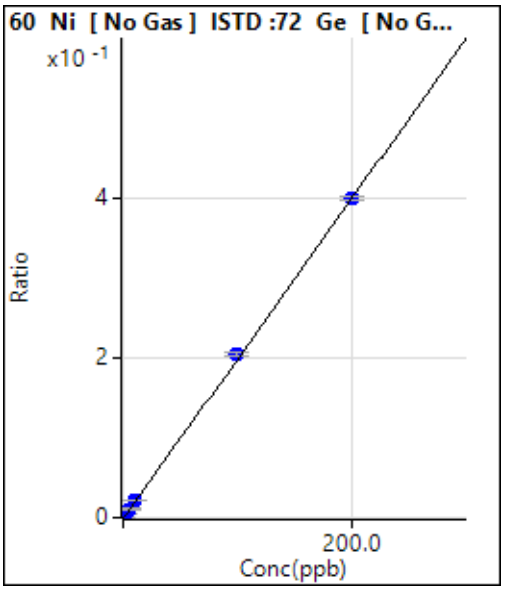


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0001	P	24.0	
2	☐	2.000	1.969	21476.99	0.0266	P	0.8	-1.5
3	☐	5.000	5.034	53832.06	0.0678	P	3.9	0.7
4	☐	10.000	9.806	102986.21	0.1319	P	1.9	-1.9
5	☐	100.000	99.488	1000576.47	1.3369	M	2.6	-0.5
6	☐	200.000	200.265	1936777.37	2.6911	A	2.0	0.1

y = 0.0134 * x + 1.3445E-004
R = 1.0000
DL = 0.007216 ppb
BEC = 0.01001 ppb

Weight: <None>
Min Conc: <None>

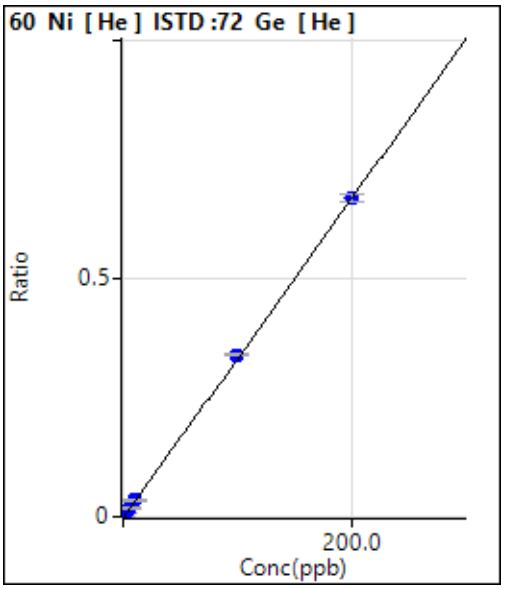
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1446.78	0.0005	P	9.0	
2	☐	2.000	2.095	13166.49	0.0047	P	0.9	4.8
3	☐	5.000	5.131	29605.47	0.0108	P	2.4	2.6
4	☐	10.000	10.332	57135.34	0.0212	P	1.7	3.3
5	☐	100.000	101.492	517667.22	0.2036	P	2.1	1.5
6	☐	200.000	199.233	971011.86	0.3992	P	1.2	-0.4

y = 0.0020 * x + 5.1042E-004
R = 1.0000
DL = 0.06852 ppb
BEC = 0.2551 ppb

Weight: <None>
Min Conc: <None>

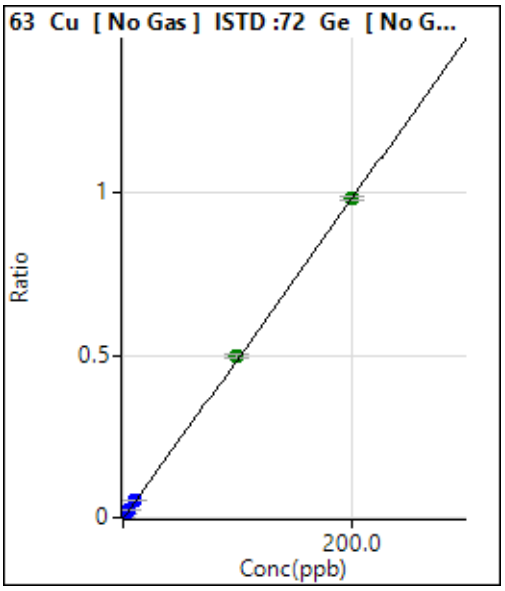


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0002	P	26.4	
2	☐	2.000	1.979	5564.56	0.0069	P	2.8	-1.0
3	☐	5.000	5.251	14194.21	0.0179	P	3.9	5.0
4	☐	10.000	10.236	27020.09	0.0346	P	1.9	2.4
5	☐	100.000	101.222	254461.10	0.3400	P	1.4	1.2
6	☐	200.000	199.371	481835.16	0.6695	P	1.9	-0.3

y = 0.0034 * x + 2.4469E-004
R = 1.0000
DL = 0.05764 ppb
BEC = 0.07289 ppb

Weight: <None>
Min Conc: <None>

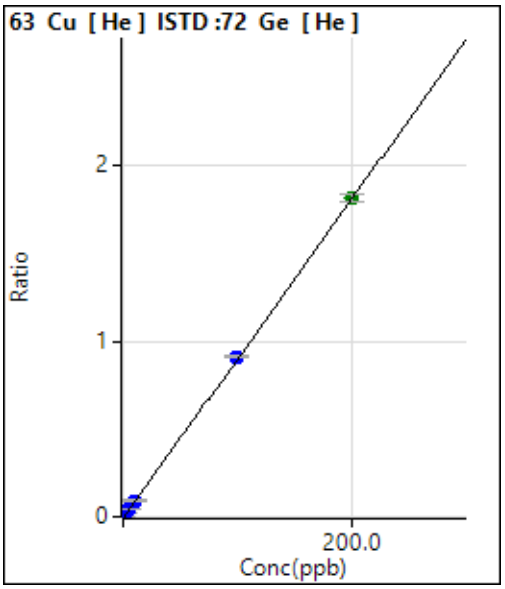
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.26	0.0009	P	7.9	
2	☐	2.000	2.078	31038.65	0.0111	P	1.0	3.9
3	☐	5.000	5.185	72486.85	0.0264	P	0.2	3.7
4	☐	10.000	10.191	137632.60	0.0510	P	2.5	1.9
5	☐	100.000	101.268	1269974.51	0.4995	A	2.2	1.3
6	☐	200.000	199.351	2389738.82	0.9824	A	1.1	-0.3

y = 0.0049 * x + 8.5799E-004
R = 1.0000
DL = 0.04151 ppb
BEC = 0.1742 ppb

Weight: <None>
Min Conc: <None>

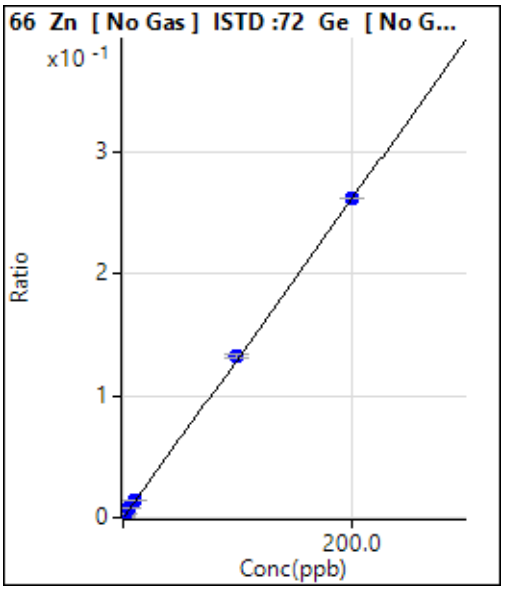


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	543.36	0.0007	P	11.5	
2	☐	2.000	2.035	15462.25	0.0191	P	3.6	1.8
3	☐	5.000	5.194	37976.08	0.0478	P	1.1	3.9
4	☐	10.000	10.045	71726.60	0.0919	P	2.6	0.5
5	☐	100.000	100.405	682669.99	0.9122	P	1.0	0.4
6	☐	200.000	199.790	1305882.12	1.8145	A	2.1	-0.1

y = 0.0091 * x + 6.6429E-004
R = 1.0000
DL = 0.02516 ppb
BEC = 0.07317 ppb

Weight: <None>
Min Conc: <None>

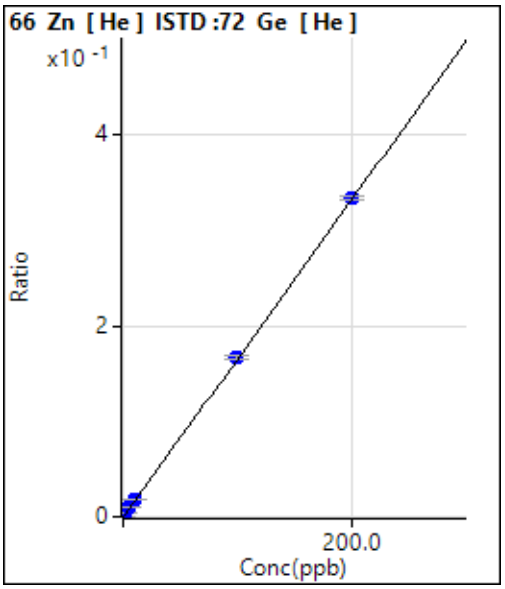
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2296.90	0.0008	P	6.6	
2	☐	2.000	2.078	9873.72	0.0035	P	4.3	3.9
3	☐	5.000	5.110	20575.69	0.0075	P	2.7	2.2
4	☐	10.000	10.316	38554.36	0.0143	P	1.1	3.2
5	☐	100.000	100.811	337121.65	0.1326	P	2.1	0.8
6	☐	200.000	199.575	636574.29	0.2617	P	0.4	-0.2

y = 0.0013 * x + 8.1046E-004
R = 1.0000
DL = 0.1228 ppb
BEC = 0.62 ppb

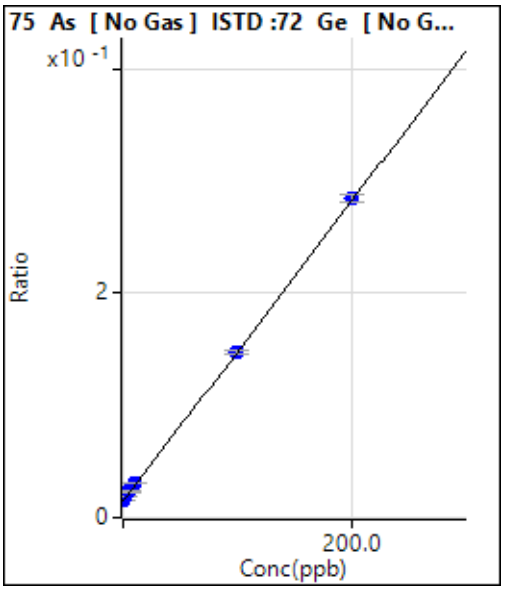
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	806.71	0.0010	P	3.6	
2	☐	2.000	2.078	3587.20	0.0044	P	0.8	3.9
3	☐	5.000	5.105	7525.53	0.0095	P	2.8	2.1
4	☐	10.000	9.803	13500.13	0.0173	P	0.8	-2.0
5	☐	100.000	99.665	124766.01	0.1667	P	1.5	-0.3
6	☐	200.000	200.174	240282.09	0.3339	P	1.6	0.1

y = 0.0017 * x + 9.8622E-004
R = 1.0000
DL = 0.06373 ppb
BEC = 0.5931 ppb

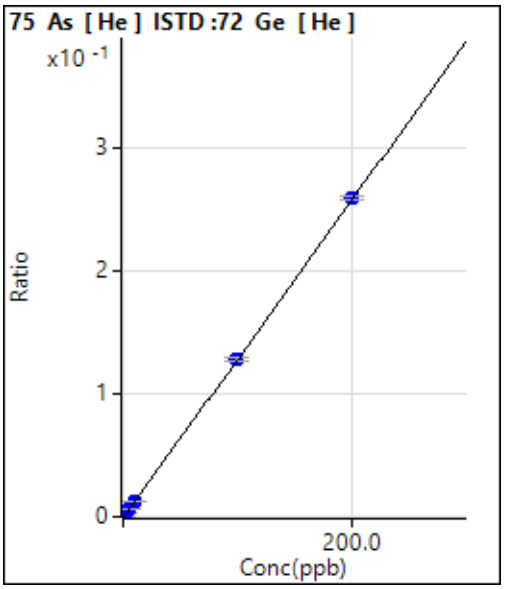
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45007.99	0.0159	P	1.9	
2	☐	2.000	2.024	52042.61	0.0186	P	2.2	1.2
3	☐	5.000	5.455	63665.12	0.0232	P	1.9	9.1
4	☐	10.000	10.910	82179.53	0.0305	P	0.2	9.1
5	☐	100.000	98.203	374208.40	0.1472	P	2.0	-1.8
6	☐	200.000	200.841	691819.94	0.2844	P	2.2	0.4

y = 0.0013 * x + 0.0159
R = 0.9999
DL = 0.6599 ppb
BEC = 11.88 ppb

Weight: <None>
Min Conc: <None>

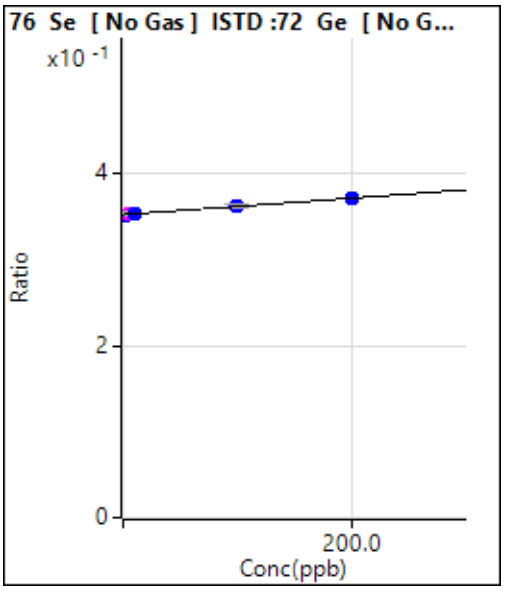


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	266.67	0.0003	P	9.6	
2	☐	2.000	1.986	2339.10	0.0029	P	3.0	-0.7
3	☐	5.000	4.899	5296.61	0.0067	P	5.2	-2.0
4	☐	10.000	9.765	10126.02	0.0130	P	3.6	-2.4
5	☐	100.000	99.033	96195.03	0.1285	P	1.7	-1.0
6	☐	200.000	200.498	187063.29	0.2599	P	0.8	0.2

y = 0.0013 * x + 3.2601E-004
R = 1.0000
DL = 0.07266 ppb
BEC = 0.2518 ppb

Weight: <None>
Min Conc: <None>

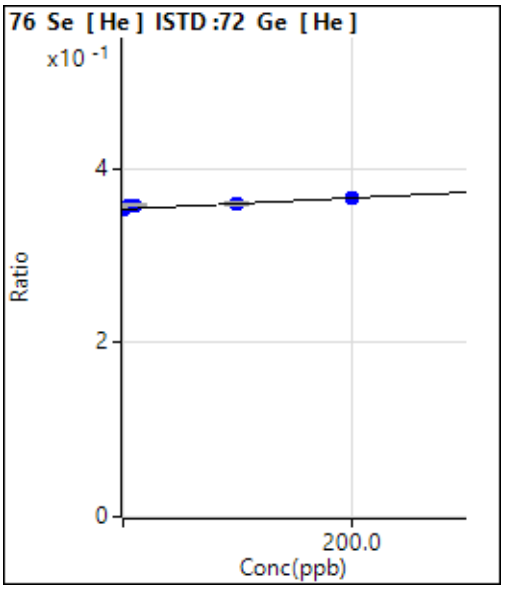
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	998333.11	0.3523	M	1.2	
2	☐	2.000	-7.974	984195.71	0.3516	P	0.4	-498.7
3	☐	5.000	14.291	971631.13	0.3537	M	1.3	185.8
4	☐	10.000	8.119	952313.37	0.3531	P	0.3	-18.8
5	☐	100.000	106.506	922016.68	0.3626	P	0.7	6.5
6	☐	200.000	196.709	903339.70	0.3714	P	0.6	-1.6

y = 9.6737E-005 * x + 0.3523
R = 0.9964
DL = 126.6 ppb
BEC = 3642 ppb

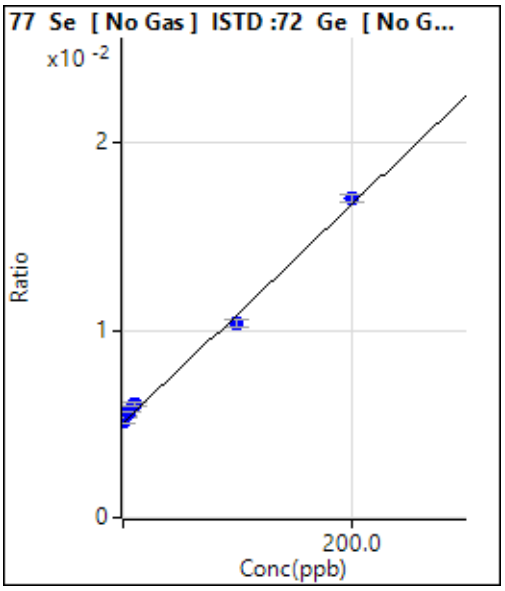
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	289503.37	0.3539	P	0.6	
2	☐	2.000	36.263	287723.25	0.3562	P	1.0	1713.2
3	☐	5.000	62.484	284294.40	0.3580	P	1.2	1149.7
4	☐	10.000	79.437	280382.55	0.3591	P	0.5	694.4
5	☐	100.000	91.474	269291.94	0.3598	P	1.3	-8.5
6	☐	200.000	199.012	264034.70	0.3668	P	0.4	-0.5

y = 6.5140E-005 * x + 0.3539
R = 0.9176
DL = 104.5 ppb
BEC = 5433 ppb

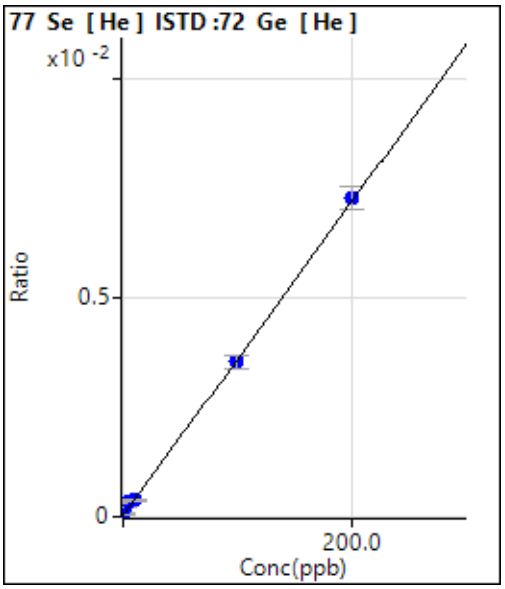
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14604.76	0.0052	P	5.7	
2	☐	2.000	4.531	15168.67	0.0054	P	2.8	126.5
3	☐	5.000	8.739	15555.73	0.0057	P	0.9	74.8
4	☐	10.000	15.485	16330.01	0.0061	P	2.3	54.9
5	☐	100.000	89.867	26379.23	0.0104	P	3.8	-10.1
6	☐	200.000	204.673	41470.13	0.0170	P	2.2	2.3

y = 5.8106E-005 * x + 0.0052
R = 0.9975
DL = 15.08 ppb
BEC = 88.72 ppb

Weight: <None>
Min Conc: <None>

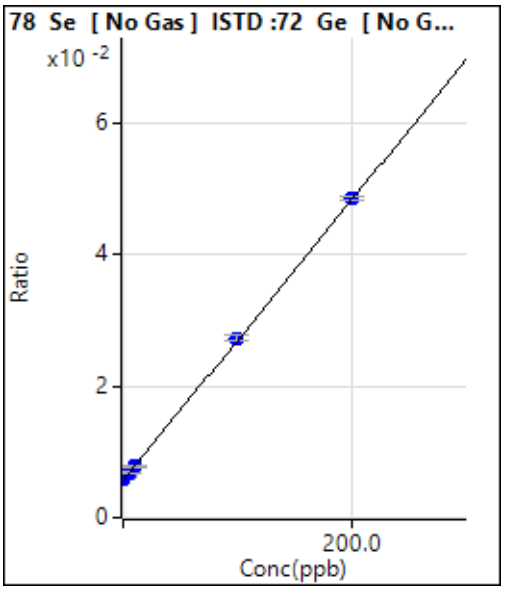


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	20.0	
2	☐	2.000	4.746	186.67	0.0002	P	6.7	137.3
3	☐	5.000	7.666	266.68	0.0003	P	7.9	53.3
4	☐	10.000	8.901	296.68	0.0004	P	14.4	-11.0
5	☐	100.000	97.081	2650.31	0.0035	P	8.7	-2.9
6	☐	200.000	201.420	5237.76	0.0073	P	7.3	0.7

y = 3.5833E-005 * x + 6.1113E-005
R = 0.9996
DL = 1.022 ppb
BEC = 1.705 ppb

Weight: <None>
Min Conc: <None>

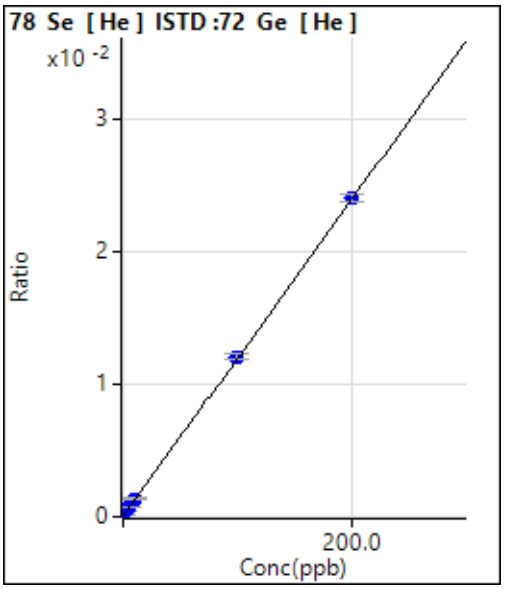
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16787.24	0.0059	P	5.0	
2	☐	2.000	1.837	17681.71	0.0063	P	0.9	-8.1
3	☐	5.000	4.427	18866.69	0.0069	P	1.0	-11.5
4	☐	10.000	8.819	21049.92	0.0078	P	1.7	-11.8
5	☐	100.000	99.954	69272.57	0.0272	P	3.3	0.0
6	☐	200.000	200.098	118235.99	0.0486	P	1.2	0.0

y = 2.1331E-004 * x + 0.0059
R = 1.0000
DL = 4.144 ppb
BEC = 27.77 ppb

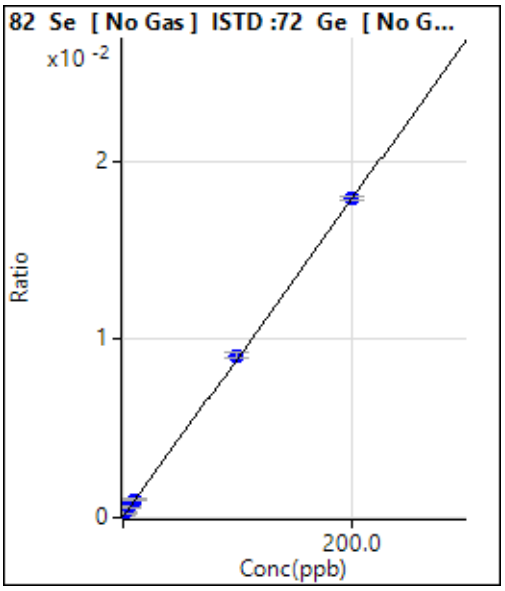
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	129.33	0.0002	P	11.6	
2	☐	2.000	1.823	304.00	0.0004	P	2.0	-8.8
3	☐	5.000	5.074	608.02	0.0008	P	1.6	1.5
4	☐	10.000	9.948	1053.38	0.0013	P	4.9	-0.5
5	☐	100.000	99.956	9075.05	0.0121	P	3.1	0.0
6	☐	200.000	200.024	17350.39	0.0241	P	1.8	0.0

y = 1.1973E-004 * x + 1.5805E-004
R = 1.0000
DL = 0.4605 ppb
BEC = 1.32 ppb

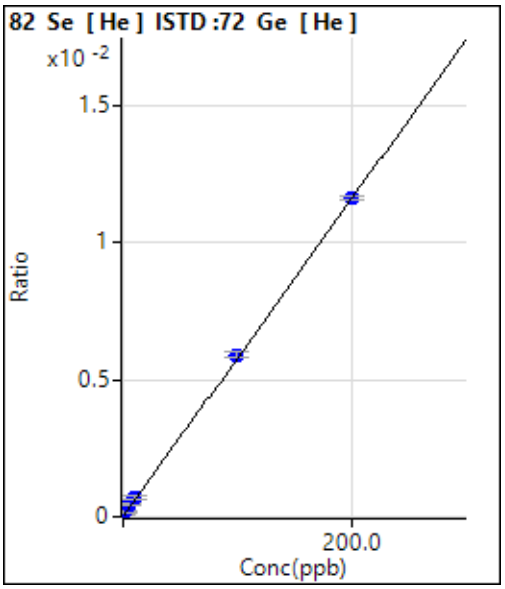
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	390.01	0.0001	P	22.7	
2	☐	2.000	1.581	780.04	0.0003	P	9.5	-21.0
3	☐	5.000	5.375	1693.47	0.0006	P	10.5	7.5
4	☐	10.000	9.573	2670.32	0.0010	P	10.3	-4.3
5	☐	100.000	100.825	23170.01	0.0091	P	3.1	0.8
6	☐	200.000	199.604	43560.12	0.0179	P	1.0	-0.2

y = 8.9027E-005 * x + 1.3780E-004
R = 1.0000
DL = 1.054 ppb
BEC = 1.548 ppb

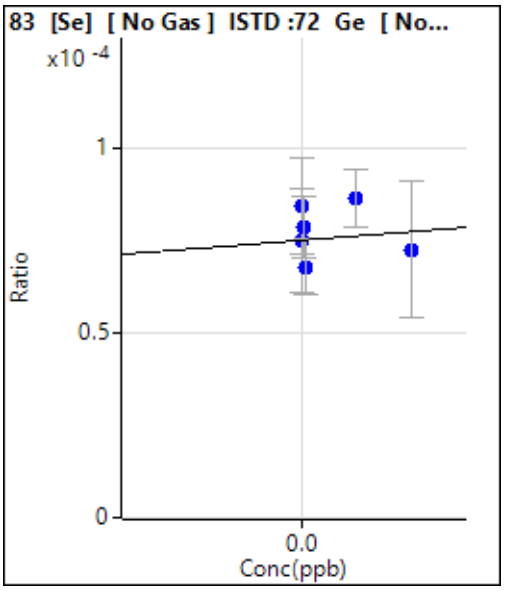
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	21.5	
2	☐	2.000	2.080	150.00	0.0002	P	30.9	4.0
3	☐	5.000	6.259	340.01	0.0004	P	13.4	25.2
4	☐	10.000	11.324	563.36	0.0007	P	18.4	13.2
5	☐	100.000	100.833	4424.14	0.0059	P	3.2	0.8
6	☐	200.000	199.485	8372.72	0.0116	P	1.5	-0.3

y = 5.7987E-005 * x + 6.5181E-005
R = 1.0000
DL = 0.7259 ppb
BEC = 1.124 ppb

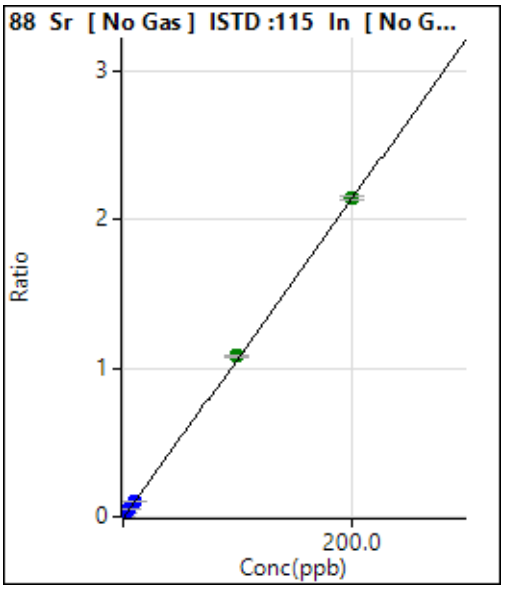
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	37.3	
2	☐	2.000	794.313	236.67	0.0001	P	31.2	39615.
3	☐	5.000	319.097	216.67	0.0001	P	21.2	6281.9
4	☐	10.000	-617.617	183.34	0.0001	P	22.2	-6276.2
5	☐	100.000	972.906	220.01	0.0001	P	18.5	872.9
6	☐	200.000	-220.848	176.67	0.0001	P	51.4	-210.4

y = 1.1664E-008 * x + 7.5198E-005
R = -0.0636
DL = 7215 ppb
BEC = 6447 ppb

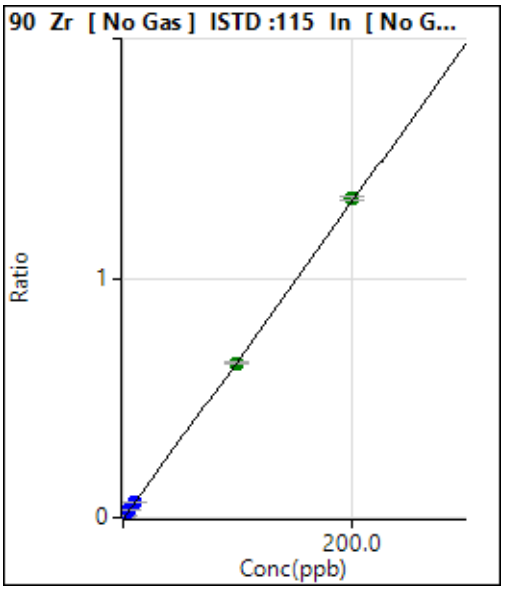
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2516.94	0.0006	P	6.1	
2	☐	2.000	2.015	88679.59	0.0223	P	2.6	0.8
3	☐	5.000	5.080	218644.09	0.0552	P	1.2	1.6
4	☐	10.000	10.028	420089.51	0.1084	P	2.0	0.3
5	☐	100.000	100.509	4004072.34	1.0812	A	1.9	0.5
6	☐	200.000	199.742	7625902.39	2.1480	A	1.5	-0.1

y = 0.0108 * x + 6.2110E-004
R = 1.0000
DL = 0.01059 ppb
BEC = 0.05777 ppb

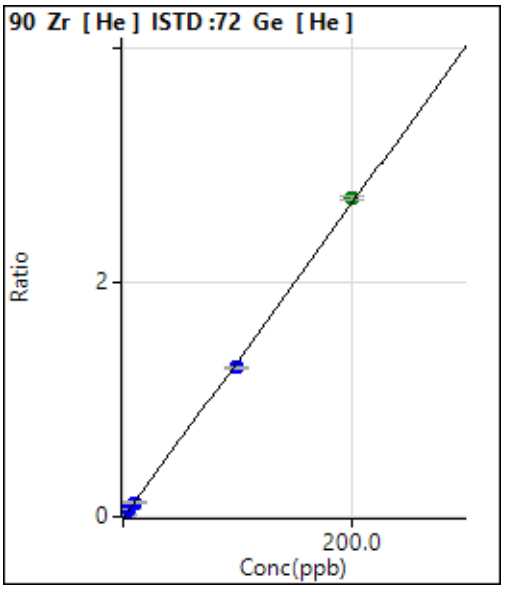
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	980.05	0.0002	P	6.4	
2	☐	2.000	1.637	44082.19	0.0111	P	1.4	-18.2
3	☐	5.000	4.449	117530.62	0.0297	P	0.9	-11.0
4	☐	10.000	9.248	238146.25	0.0615	P	1.2	-7.5
5	☐	100.000	97.180	2383562.00	0.6436	A	1.2	-2.8
6	☐	200.000	201.465	4735864.31	1.3340	A	1.7	0.7

y = 0.0066 * x + 2.4184E-004
R = 0.9999
DL = 0.00706 ppb
BEC = 0.03653 ppb

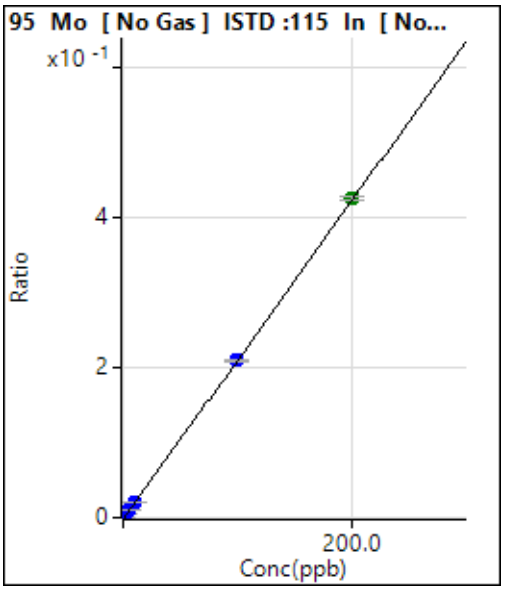
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1233.42	0.0015	P	15.0	
2	☐	2.000	1.597	18522.95	0.0229	P	2.8	-20.1
3	☐	5.000	4.481	48945.48	0.0616	P	2.6	-10.4
4	☐	10.000	8.940	94831.50	0.1215	P	2.7	-10.6
5	☐	100.000	94.892	953934.75	1.2746	P	1.3	-5.1
6	☐	200.000	202.624	1957633.20	2.7200	A	1.8	1.3

y = 0.0134 * x + 0.0015
R = 0.9996
DL = 0.05058 ppb
BEC = 0.1124 ppb

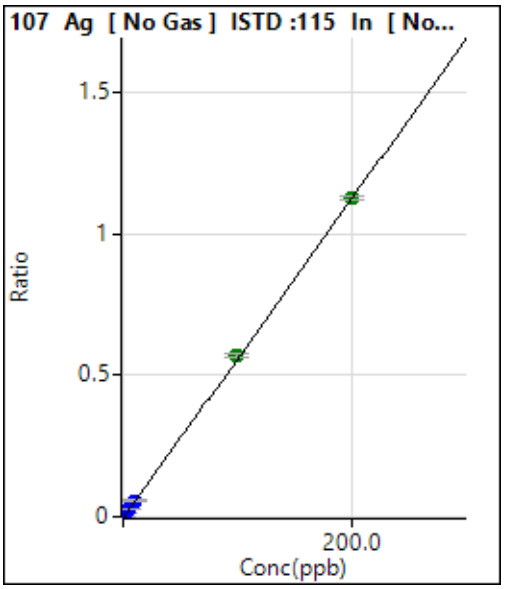
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0000	P	62.1	
2	☐	2.000	1.897	16076.52	0.0040	P	1.0	-5.1
3	☐	5.000	4.957	41634.81	0.0105	P	0.3	-0.9
4	☐	10.000	9.793	80422.53	0.0208	P	1.5	-2.1
5	☐	100.000	98.793	774708.27	0.2092	P	1.6	-1.2
6	☐	200.000	200.616	1507965.19	0.4248	A	1.6	0.3

y = 0.0021 * x + 2.3819E-005
R = 1.0000
DL = 0.02095 ppb
BEC = 0.01125 ppb

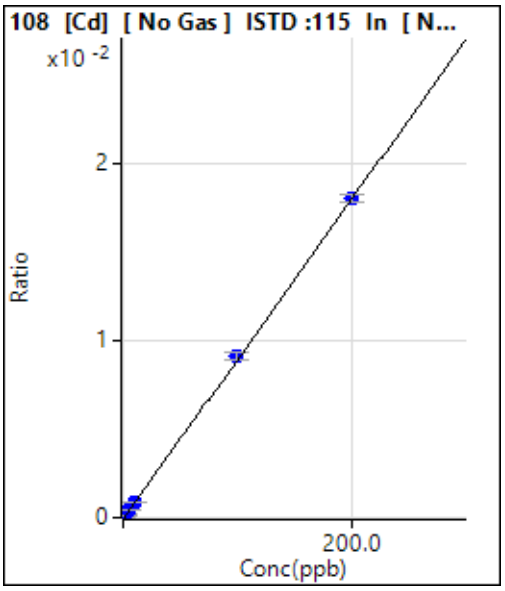
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0001	P	9.7	
2	☐	2.000	2.062	46711.71	0.0117	P	3.2	3.1
3	☐	5.000	5.108	114574.08	0.0289	P	1.1	2.2
4	☐	10.000	10.140	222274.44	0.0574	P	1.5	1.4
5	☐	100.000	100.792	2109028.93	0.5695	A	1.7	0.8
6	☐	200.000	199.594	4003104.11	1.1276	A	1.6	-0.2

y = 0.0056 * x + 8.8814E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.01572 ppb

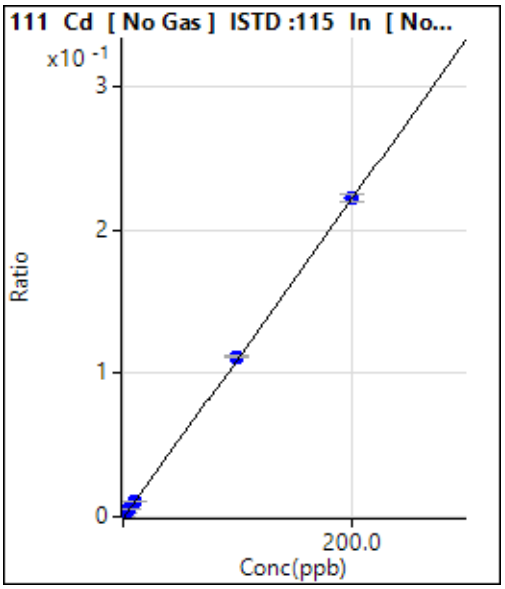
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.828	660.03	0.0002	P	10.1	-8.6
3	☐	5.000	5.167	1850.16	0.0005	P	4.6	3.3
4	☐	10.000	9.554	3347.15	0.0009	P	10.4	-4.5
5	☐	100.000	100.777	33716.12	0.0091	P	4.6	0.8
6	☐	200.000	199.631	64003.28	0.0180	P	3.0	-0.2

y = 9.0309E-005 * x + 8.2235E-007
R = 1.0000
DL = 0.04732 ppb
BEC = 0.009106 ppb

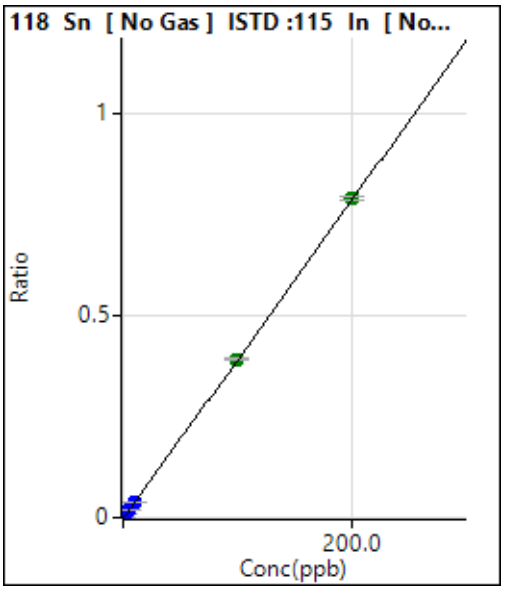
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.42	0.0000	P	327.7	
2	☐	2.000	1.989	8828.65	0.0022	P	1.7	-0.5
3	☐	5.000	5.025	22183.62	0.0056	P	4.2	0.5
4	☐	10.000	10.093	43591.98	0.0113	P	0.8	0.9
5	☐	100.000	100.305	414082.00	0.1118	P	1.2	0.3
6	☐	200.000	199.842	790806.94	0.2228	P	2.1	-0.1

y = 0.0011 * x + 1.5940E-006
R = 1.0000
DL = 0.01406 ppb
BEC = 0.00143 ppb

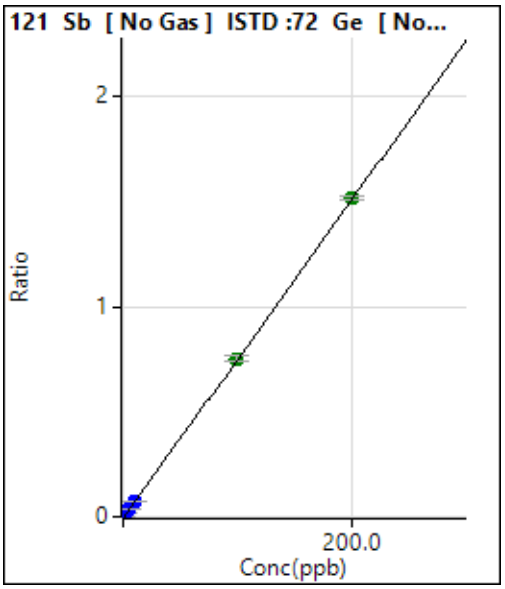
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3420.50	0.0008	P	3.5	
2	☐	2.000	1.954	34013.88	0.0085	P	0.9	-2.3
3	☐	5.000	4.892	79674.95	0.0201	P	0.9	-2.2
4	☐	10.000	9.748	152140.46	0.0393	P	0.6	-2.5
5	☐	100.000	99.384	1454044.72	0.3926	A	2.0	-0.6
6	☐	200.000	200.324	2806410.27	0.7905	A	1.4	0.2

y = 0.0039 * x + 8.4399E-004
R = 1.0000
DL = 0.02257 ppb
BEC = 0.2141 ppb

Weight: <None>
Min Conc: <None>

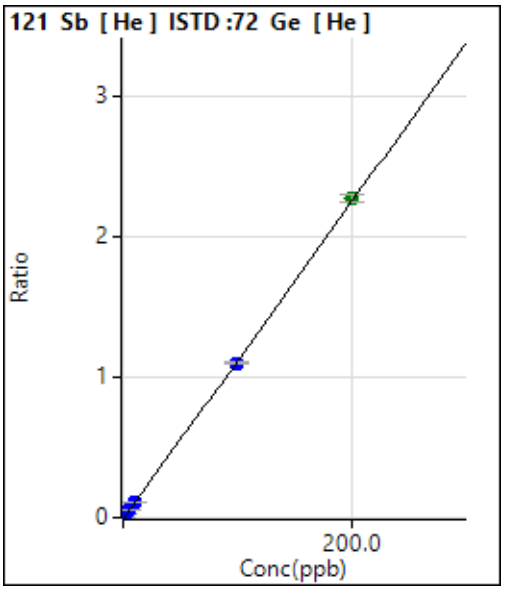


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	733.37	0.0003	P	8.9	
2	☐	2.000	1.923	41515.18	0.0148	P	2.3	-3.8
3	☐	5.000	4.888	102423.27	0.0373	P	2.0	-2.2
4	☐	10.000	9.622	197242.49	0.0731	P	1.8	-3.8
5	☐	100.000	99.458	1916033.46	0.7536	A	2.6	-0.5
6	☐	200.000	200.293	3690914.84	1.5174	A	1.7	0.1

y = 0.0076 * x + 2.5879E-004
R = 1.0000
DL = 0.009139 ppb
BEC = 0.03417 ppb

Weight: <None>
Min Conc: <None>

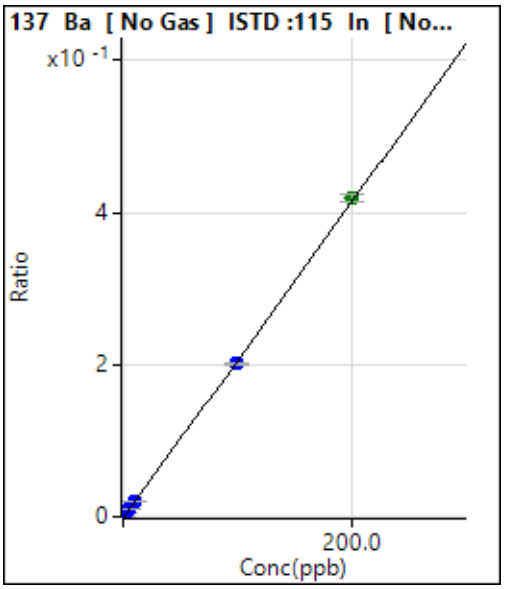
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0004	P	21.9	
2	☐	2.000	1.869	17368.28	0.0215	P	0.9	-6.5
3	☐	5.000	4.787	43294.21	0.0545	P	4.3	-4.3
4	☐	10.000	9.437	83619.42	0.1071	P	2.5	-5.6
5	☐	100.000	97.573	826138.90	1.1039	P	1.0	-2.4
6	☐	200.000	201.248	1638358.73	2.2765	A	2.3	0.6

y = 0.0113 * x + 3.6672E-004
R = 0.9999
DL = 0.02129 ppb
BEC = 0.03242 ppb

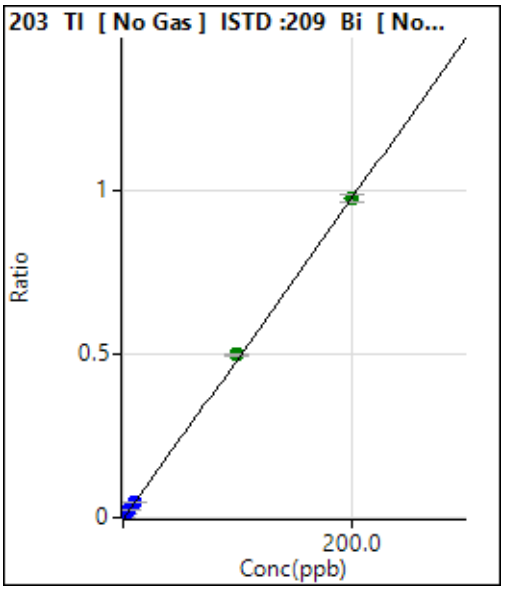
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	690.03	0.0002	P	7.4	
2	☐	2.000	1.895	16360.45	0.0041	P	4.7	-5.2
3	☐	5.000	4.917	41158.24	0.0104	P	2.4	-1.7
4	☐	10.000	9.665	78537.72	0.0203	P	2.3	-3.4
5	☐	100.000	96.930	747214.29	0.2018	P	1.1	-3.1
6	☐	200.000	201.555	1488748.15	0.4194	A	2.5	0.8

y = 0.0021 * x + 1.7024E-004
R = 0.9998
DL = 0.01821 ppb
BEC = 0.08186 ppb

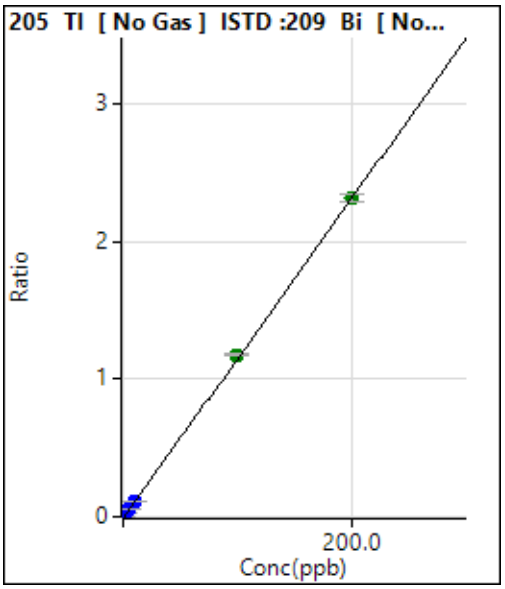
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0000	P	15.0	
2	☐	2.000	2.110	45324.94	0.0104	P	2.3	5.5
3	☐	5.000	5.181	110628.08	0.0255	P	1.9	3.6
4	☐	10.000	9.715	203321.60	0.0478	P	2.1	-2.9
5	☐	100.000	101.782	2044623.09	0.5006	A	1.1	1.8
6	☐	200.000	199.117	3844545.88	0.9792	A	2.6	-0.4

y = 0.0049 * x + 4.0723E-005
R = 0.9999
DL = 0.003715 ppb
BEC = 0.008281 ppb

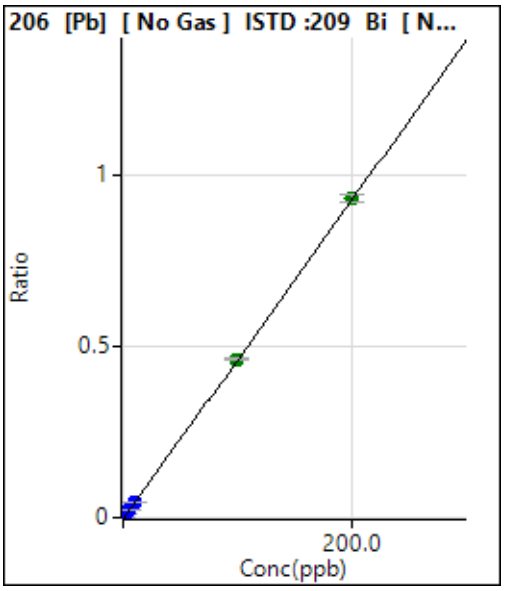
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	346.68	0.0001	P	10.9	
2	☐	2.000	2.114	107280.74	0.0247	P	2.0	5.7
3	☐	5.000	5.272	265999.27	0.0614	P	2.3	5.4
4	☐	10.000	9.913	490321.80	0.1153	P	3.2	-0.9
5	☐	100.000	101.381	4813527.01	1.1785	A	1.2	1.4
6	☐	200.000	199.306	9095408.20	2.3167	A	2.4	-0.3

y = 0.0116 * x + 7.9798E-005
R = 1.0000
DL = 0.002247 ppb
BEC = 0.006865 ppb

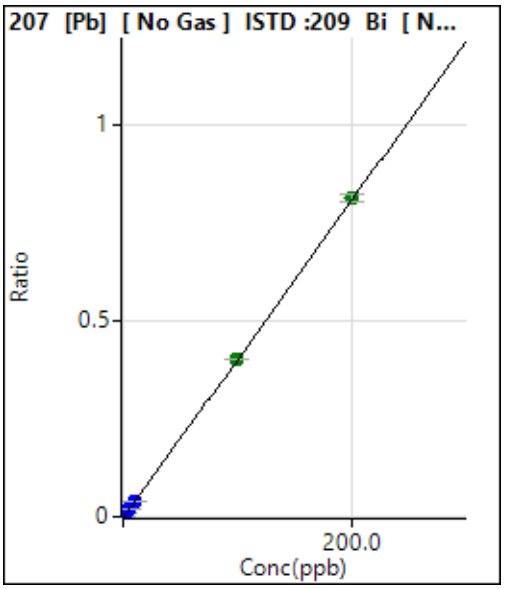
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	506.68	0.0001	P	13.1	
2	☐	2.000	1.977	40642.39	0.0093	P	1.2	-1.1
3	☐	5.000	4.959	100794.75	0.0232	P	2.0	-0.8
4	☐	10.000	9.789	194680.03	0.0458	P	1.2	-2.1
5	☐	100.000	99.500	1896431.12	0.4643	A	0.8	-0.5
6	☐	200.000	200.262	3668451.19	0.9343	A	1.9	0.1

y = 0.0047 * x + 1.1662E-004
R = 1.0000
DL = 0.009801 ppb
BEC = 0.025 ppb

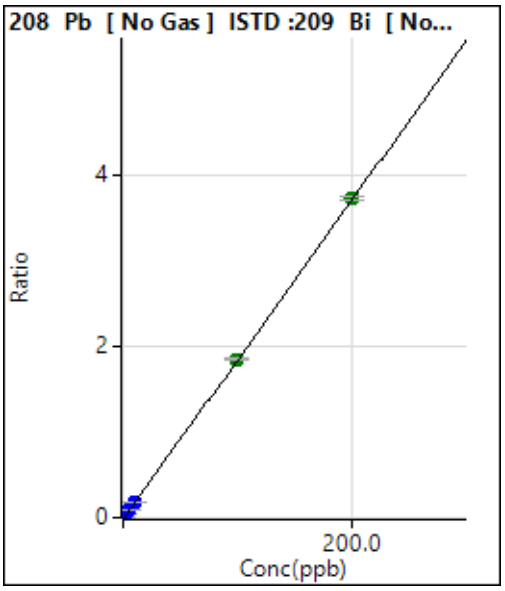
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573.48	0.0001	P	63.0	
2	☐	2.000	1.948	35045.76	0.0081	P	1.7	-2.6
3	☐	5.000	4.942	87700.70	0.0202	P	2.0	-1.2
4	☐	10.000	9.874	171317.26	0.0403	P	2.6	-1.3
5	☐	100.000	98.944	1644082.00	0.4025	A	0.8	-1.1
6	☐	200.000	200.536	3202401.62	0.8157	A	1.8	0.3

y = 0.0041 * x + 1.3259E-004
R = 1.0000
DL = 0.06159 ppb
BEC = 0.0326 ppb

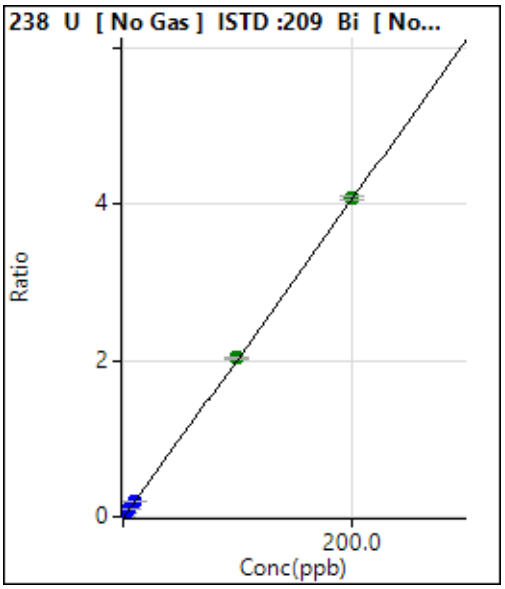
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2256.91	0.0005	P	19.4	
2	☐	2.000	1.958	160593.26	0.0369	P	0.1	-2.1
3	☐	5.000	4.970	402637.88	0.0929	P	1.6	-0.6
4	☐	10.000	9.874	782392.50	0.1840	P	1.6	-1.3
5	☐	100.000	99.337	7541323.37	1.8463	A	1.0	-0.7
6	☐	200.000	200.339	14616929.78	3.7230	A	1.7	0.2

y = 0.0186 * x + 5.2046E-004
R = 1.0000
DL = 0.01629 ppb
BEC = 0.02801 ppb

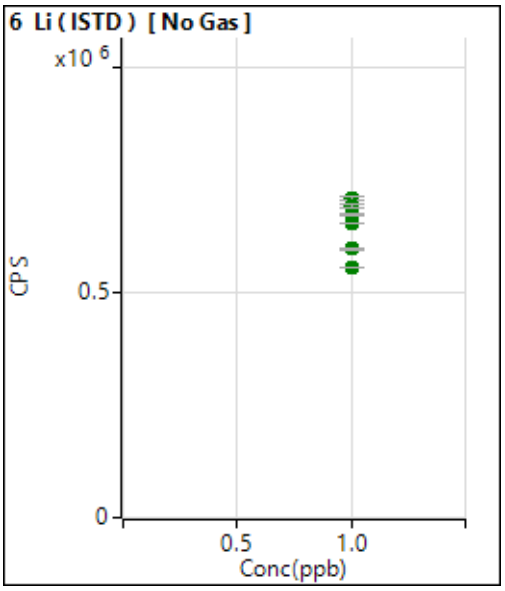
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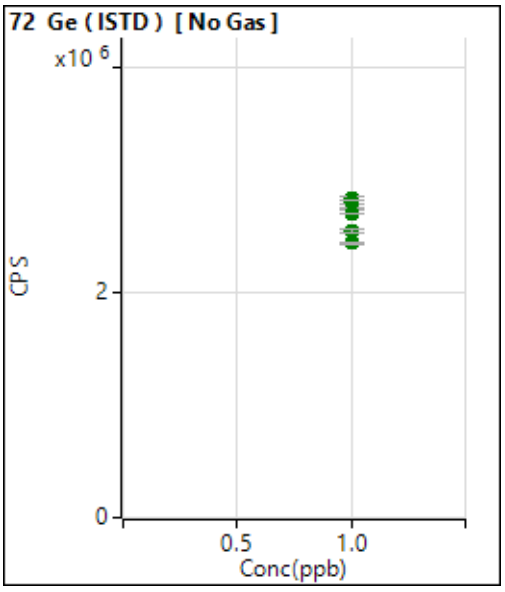
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1000.06	0.0002	P	4.8	
2	☐	2.000	1.828	162906.89	0.0374	P	1.7	-8.6
3	☐	5.000	4.676	413688.54	0.0954	P	0.7	-6.5
4	☐	10.000	9.302	806152.23	0.1896	P	1.6	-7.0
5	☐	100.000	99.790	8298256.33	2.0316	A	0.9	-0.2
6	☐	200.000	200.150	15998180.59	4.0746	A	1.4	0.1

y = 0.0204 * x + 2.3036E-004
R = 1.0000
DL = 0.001618 ppb
BEC = 0.01132 ppb

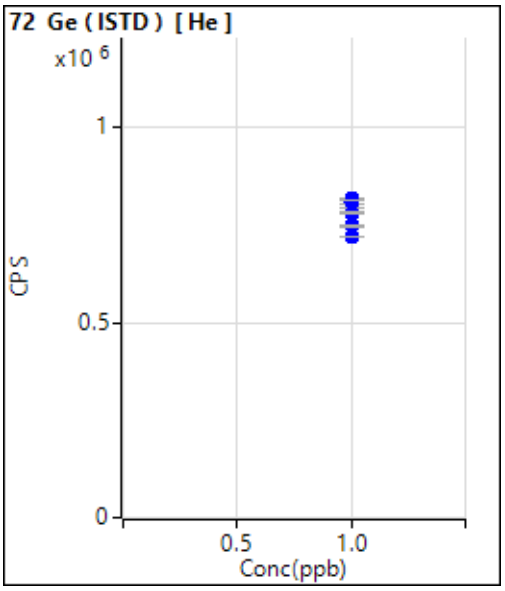
Weight: <None>
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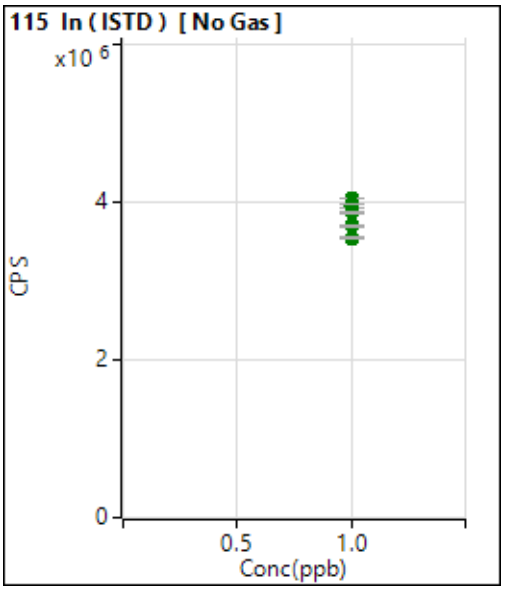
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		707912.67		A	1.4	
2	☐	1.000		691876.44		A	1.2	
3	☐	1.000		671142.05		A	0.7	
4	☐	1.000		651504.38		A	0.4	
5	☐	1.000		596010.80		A	0.4	
6	☐	1.000		553873.52		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2833616.73		A	0.8	
2	☐	1.000		2799555.06		A	0.8	
3	☐	1.000		2746832.36		A	0.5	
4	☐	1.000		2696876.31		A	0.2	
5	☐	1.000		2542670.48		A	1.1	
6	☐	1.000		2432486.16		A	0.2	

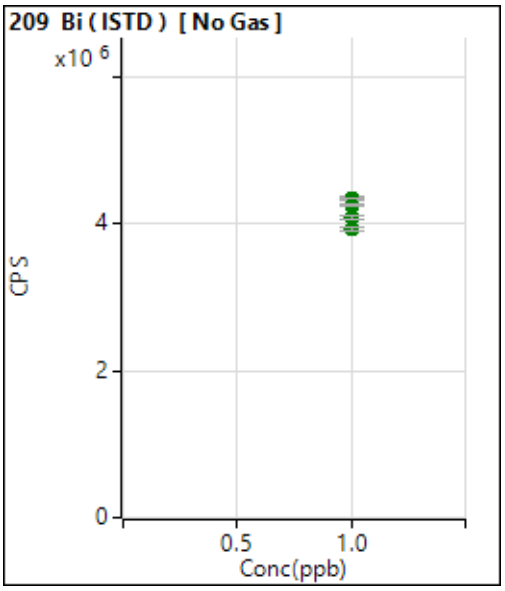


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		818068.40		P	0.5	
2	☐	1.000		807629.96		P	0.9	
3	☐	1.000		794209.88		P	0.1	
4	☐	1.000		780872.05		P	0.4	
5	☐	1.000		748388.79		P	0.8	
6	☐	1.000		719741.92		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4052649.65		A	0.4	
2	☐	1.000		3979150.31		A	0.3	
3	☐	1.000		3958484.60		A	0.9	
4	☐	1.000		3874106.01		A	0.7	
5	☐	1.000		3703349.99		A	0.9	
6	☐	1.000		3550286.04		A	0.5	

Calibration for 163_ICV.d



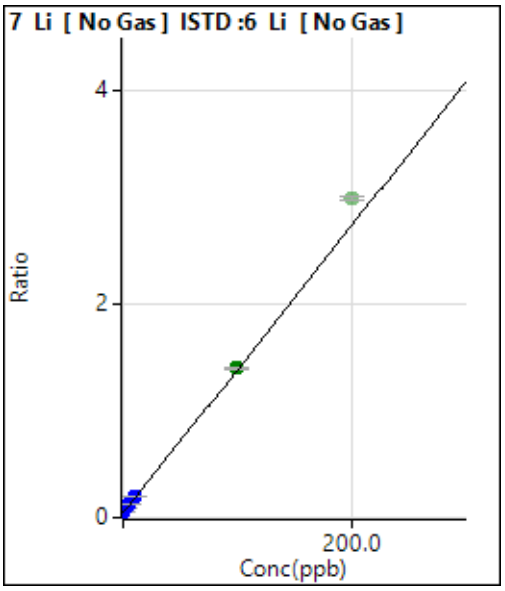
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4341940.88		A	1.1	
2	☐	1.000		4351061.29		A	1.0	
3	☐	1.000		4335305.14		A	0.2	
4	☐	1.000		4252020.98		A	0.5	
5	☐	1.000		4084398.27		A	0.9	
6	☐	1.000		3926521.40		A	1.1	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	7/1/2024 10:13:08 AM
2	011CALS.d	2/10/200	7/1/2024 10:15:51 AM
3	012CALS.d	5/25/500	7/1/2024 10:18:32 AM
4	013CALS.d	10/50/100	7/1/2024 10:21:13 AM
5	014CALS.d	100/500/10K	7/1/2024 10:23:53 AM
6	015CALS.d	200/1000/20K	7/1/2024 10:27:02 AM

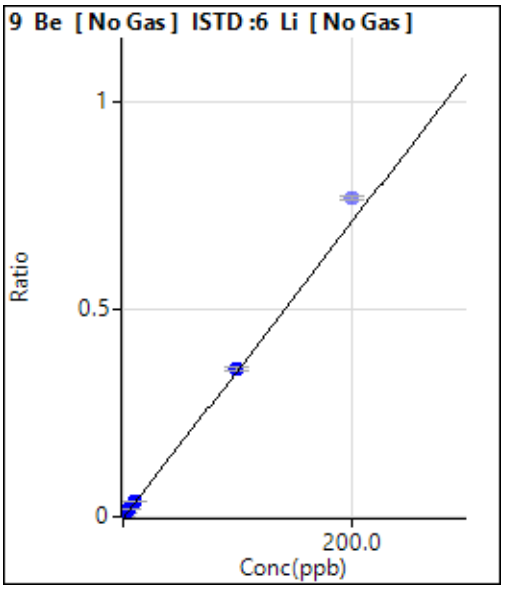
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36346.29	0.0584	P	1.9	
2	☐	2.000	2.049	52718.60	0.0860	P	1.2	2.4
3	☐	5.000	5.120	77204.13	0.1274	P	0.8	2.4
4	☐	10.000	10.301	117465.93	0.1973	P	2.2	3.0
5	☐	100.000	99.963	787320.64	1.4065	A	1.2	0.0
6	☑	200.000		1555325.81	2.9968	A	1.0	

y = 0.0135 * x + 0.0584
R = 1.0000
DL = 0.2481 ppb
BEC = 4.33 ppb

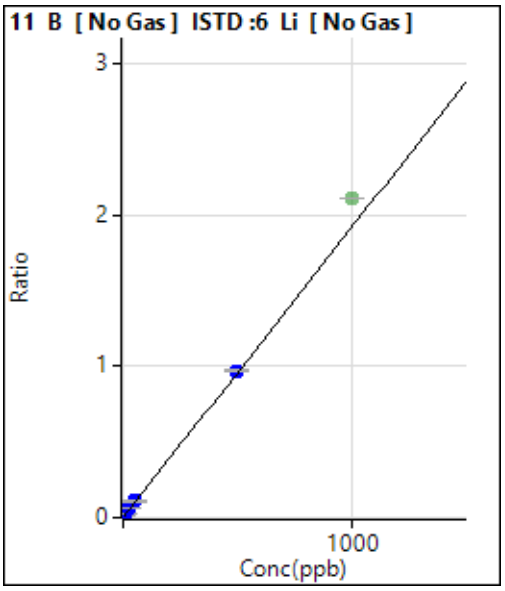
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	24.4	
2	☐	2.000	1.939	4315.70	0.0070	P	2.0	-3.1
3	☐	5.000	5.060	11012.62	0.0182	P	1.5	1.2
4	☐	10.000	10.222	21790.13	0.0366	P	2.0	2.2
5	☐	100.000	99.976	199782.00	0.3569	P	1.9	0.0
6	☑	200.000		398984.52	0.7688	P	1.4	

y = 0.0036 * x + 1.2310E-004
R = 1.0000
DL = 0.02528 ppb
BEC = 0.03449 ppb

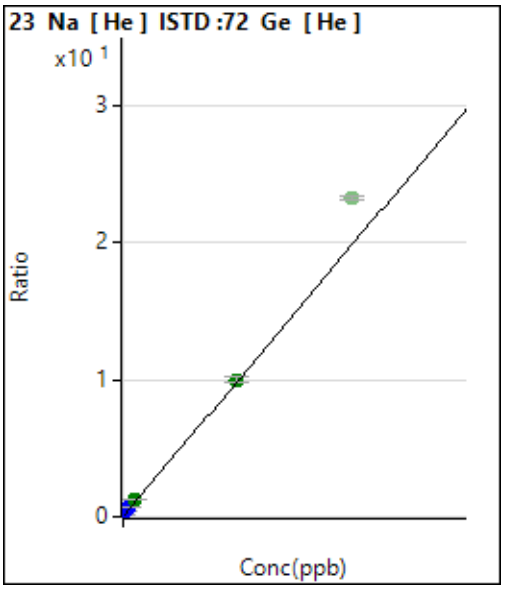
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7523.69	0.0121	P	0.9	
2	☐	10.000	9.412	18488.75	0.0302	P	3.3	-5.9
3	☐	25.000	24.177	35457.49	0.0585	P	1.2	-3.3
4	☐	50.000	50.337	64766.64	0.1088	P	1.1	0.7
5	☐	500.000	500.019	544451.60	0.9727	P	0.9	0.0
6	☑	1000.000		1097397.46	2.1145	A	0.5	

y = 0.0019 * x + 0.0121
R = 1.0000
DL = 0.162 ppb
BEC = 6.292 ppb

Weight: <None>
Min Conc: <None>

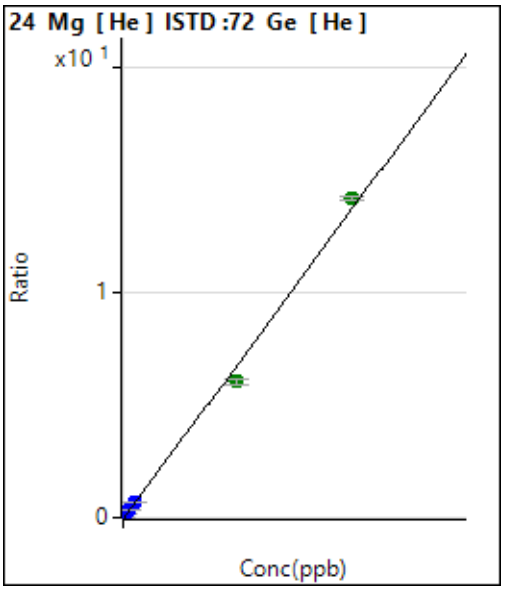


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	98350.91	0.1522	P	1.0	
2	☐	200.000	215.314	236664.48	0.3648	P	2.5	7.7
3	☐	500.000	546.429	445009.40	0.6918	P	2.2	9.3
4	☐	1000.000	1133.246	808275.80	1.2713	A	1.4	13.3
5	☐	10000.00	9984.048	6242287.41	10.0119	A	3.4	-0.2
6	☑	20000.00		13724794.79	23.2470	A	0.7	

y = 9.8754E-004 * x + 0.1522
R = 0.9999
DL = 4.517 ppb
BEC = 154.1 ppb

Weight: <None>
Min Conc: <None>

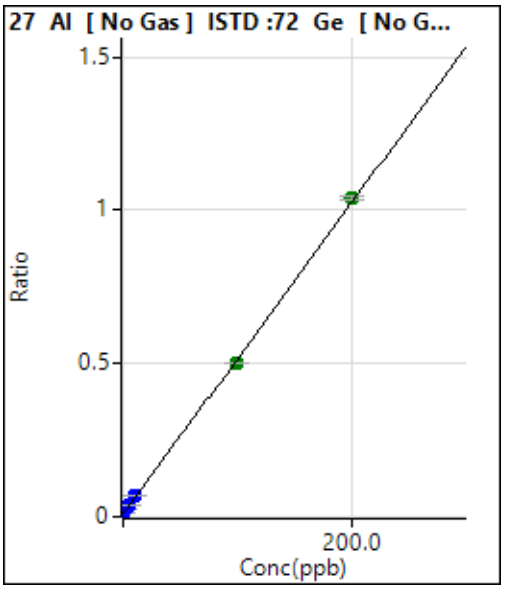
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3620.53	0.0056	P	5.7	
2	☐	200.000	198.146	91914.79	0.1417	P	3.1	-0.9
3	☐	500.000	491.045	220546.00	0.3429	P	2.5	-1.8
4	☐	1000.000	1009.849	444534.38	0.6992	P	1.3	1.0
5	☐	10000.00	8773.863	3760801.40	6.0319	A	3.5	-12.3
6	☐	20000.00	20612.81	8362117.79	14.1635	A	1.0	3.1

y = 6.8685E-004 * x + 0.0056
R = 0.9974
DL = 1.391 ppb
BEC = 8.156 ppb

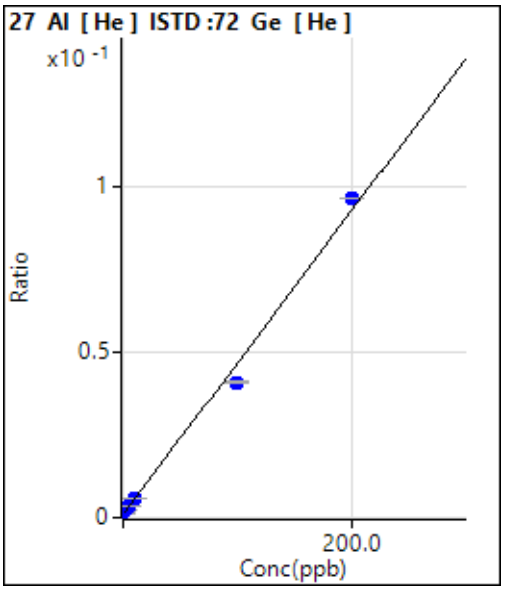
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31548.97	0.0140	P	3.2	
2	☐	2.000	2.084	55532.86	0.0246	P	1.2	4.2
3	☐	5.000	4.912	87339.75	0.0390	P	3.3	-1.8
4	☐	10.000	10.348	146138.67	0.0666	P	1.8	3.5
5	☐	100.000	95.991	1066858.45	0.5017	A	0.9	-4.0
6	☐	200.000	201.988	2119459.86	1.0401	A	1.4	1.0

y = 0.0051 * x + 0.0140
R = 0.9997
DL = 0.2649 ppb
BEC = 2.762 ppb

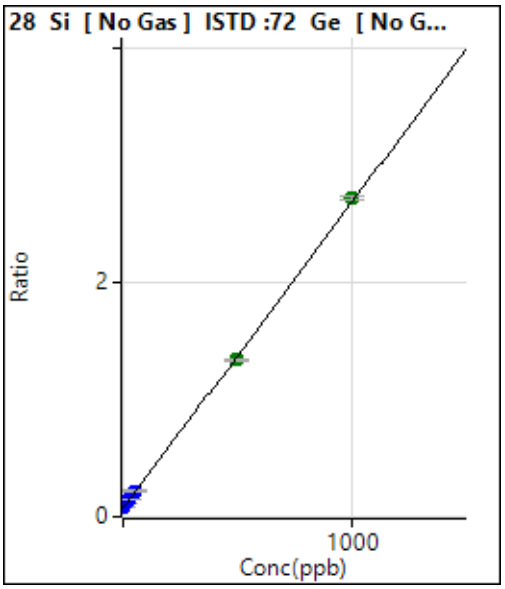
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	956.72	0.0015	P	6.9	
2	☐	2.000	1.520	1413.42	0.0022	P	6.1	-24.0
3	☐	5.000	4.696	2340.23	0.0036	P	7.6	-6.1
4	☐	10.000	8.903	3540.51	0.0056	P	1.1	-11.0
5	☐	100.000	86.013	25553.41	0.0410	P	2.2	-14.0
6	☐	200.000	207.061	57015.52	0.0966	P	0.2	3.5

y = 4.5927E-004 * x + 0.0015
R = 0.9967
DL = 0.6719 ppb
BEC = 3.224 ppb

Weight: <None>
Min Conc: <None>

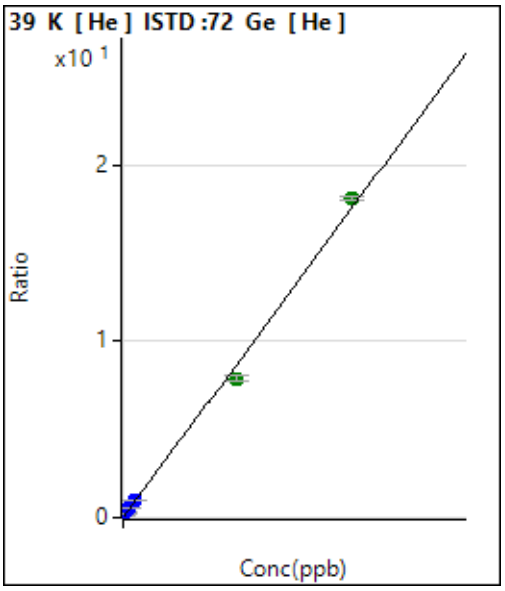


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	192642.92	0.0857	P	1.8	
2	☐	10.000	9.226	247498.35	0.1097	P	0.7	-7.7
3	☐	25.000	24.300	333822.25	0.1490	P	1.2	-2.8
4	☐	50.000	51.366	481709.17	0.2195	P	2.3	2.7
5	☐	500.000	480.054	2842289.54	1.3365	A	1.0	-4.0
6	☐	1000.000	1009.930	5536700.54	2.7171	A	1.3	1.0

y = 0.0026 * x + 0.0857
R = 0.9997
DL = 1.756 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

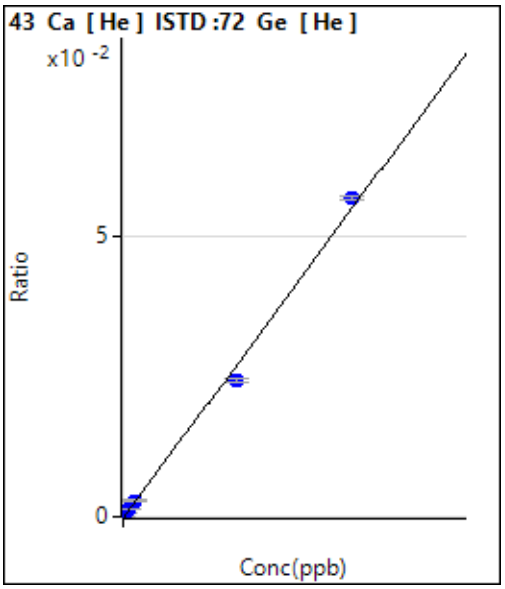
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64720.04	0.1002	P	1.2	
2	☐	200.000	197.287	177343.91	0.2734	P	1.8	-1.4
3	☐	500.000	495.205	344103.59	0.5350	P	2.5	-1.0
4	☐	1000.000	1002.620	623356.27	0.9805	P	1.3	0.3
5	☐	10000.00	8907.453	4938583.36	7.9210	A	3.9	-10.9
6	☐	20000.00	20546.29	10709749.42	18.1400	A	1.0	2.7

y = 8.7801E-004 * x + 0.1002
R = 0.9979
DL = 4.051 ppb
BEC = 114.1 ppb

Weight: <None>
Min Conc: <None>

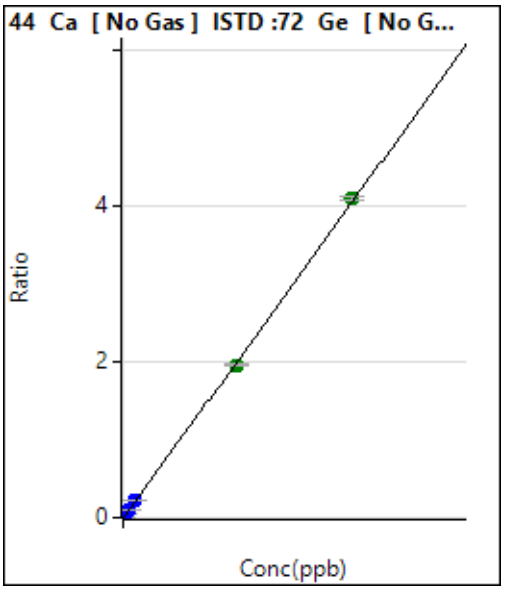


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	124.9	
2	☐	200.000	229.769	426.68	0.0007	P	3.6	14.9
3	☐	500.000	484.257	873.38	0.0014	P	10.3	-3.1
4	☐	1000.000	1037.258	1830.15	0.0029	P	6.4	3.7
5	☐	10000.00	8783.271	15075.04	0.0242	P	2.7	-12.2
6	☐	20000.00	20606.59	33470.46	0.0567	P	1.5	3.0

y = 2.7498E-006 * x + 2.5945E-005
R = 0.9974
DL = 35.34 ppb
BEC = 9.435 ppb

Weight: <None>
Min Conc: <None>

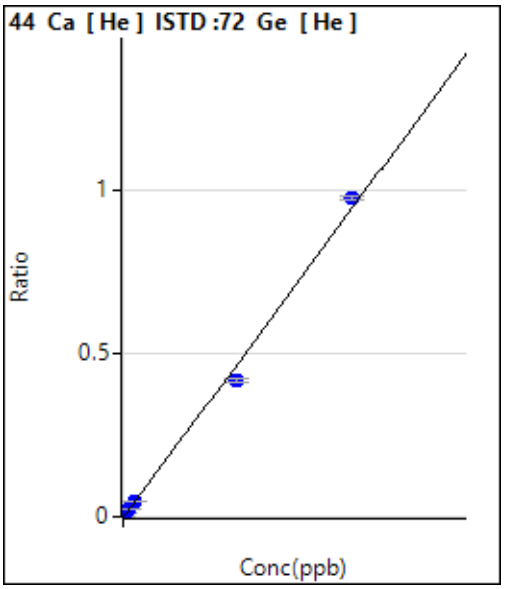
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21590.46	0.0096	P	1.5	
2	☐	200.000	196.204	111365.54	0.0494	P	1.4	-1.9
3	☐	500.000	491.058	244504.43	0.1091	P	2.8	-1.8
4	☐	1000.000	1001.417	466429.21	0.2126	P	2.0	0.1
5	☐	10000.00	9632.706	4172178.27	1.9618	A	0.8	-3.7
6	☐	20000.00	20183.83	8355057.79	4.1002	A	1.2	0.9

y = 2.0267E-004 * x + 0.0096
R = 0.9998
DL = 2.135 ppb
BEC = 47.38 ppb

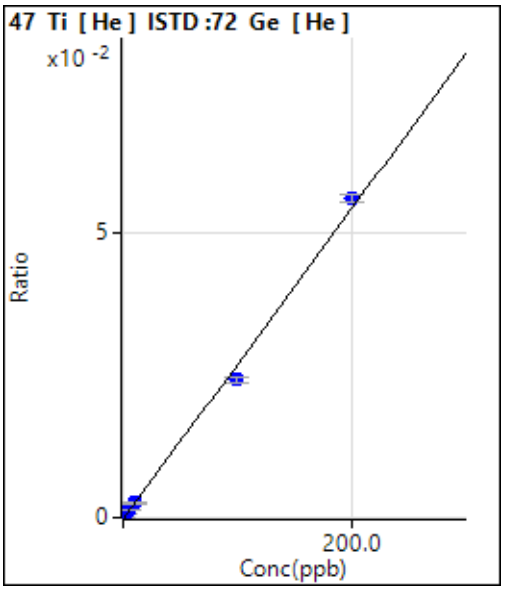
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.36	0.0011	P	10.7	
2	☐	200.000	191.920	6595.03	0.0102	P	4.6	-4.0
3	☐	500.000	491.836	15682.41	0.0244	P	3.2	-1.6
4	☐	1000.000	1000.963	30841.17	0.0485	P	3.0	0.1
5	☐	10000.00	8795.610	260544.73	0.4179	P	3.2	-12.0
6	☐	20000.00	20602.43	577052.26	0.9774	P	1.6	3.0

y = 4.7388E-005 * x + 0.0011
R = 0.9975
DL = 7.282 ppb
BEC = 22.63 ppb

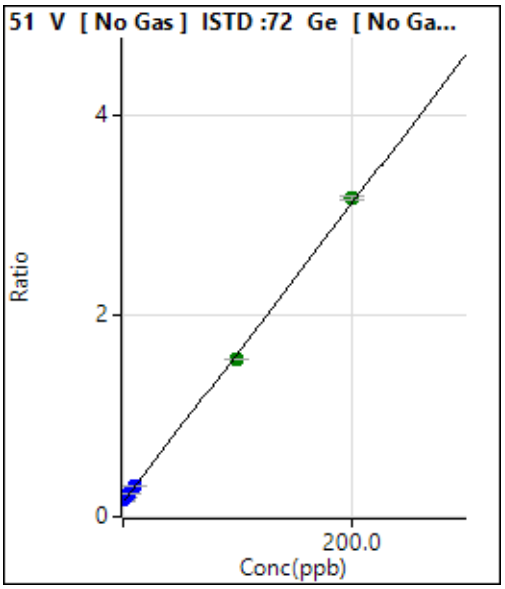
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.032	366.68	0.0006	P	3.3	1.6
3	☐	5.000	4.762	843.38	0.0013	P	17.3	-4.8
4	☐	10.000	9.460	1650.13	0.0026	P	9.4	-5.4
5	☐	100.000	88.655	15105.06	0.0242	P	4.5	-11.3
6	☐	200.000	205.705	33183.15	0.0562	P	2.6	2.9

y = 2.7316E-004 * x + 1.0291E-005
R = 0.9978
DL = 0.09789 ppb
BEC = 0.03767 ppb

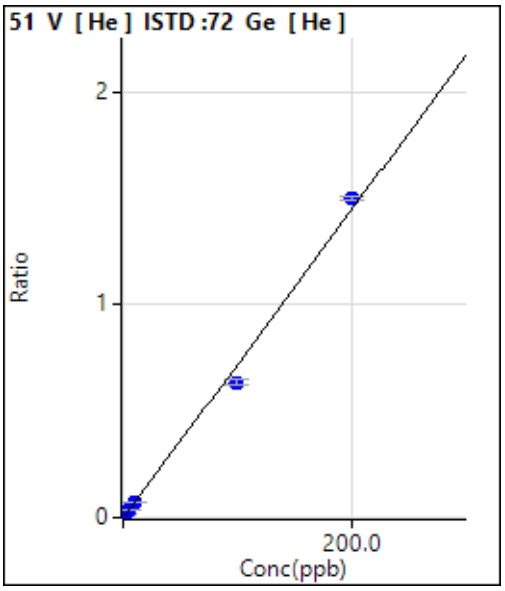
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366413.58	0.1629	P	1.3	
2	☐	2.000	1.539	419171.91	0.1858	P	1.7	-23.0
3	☐	5.000	4.714	521977.21	0.2330	P	1.2	-5.7
4	☐	10.000	9.970	682523.04	0.3110	P	1.2	-0.3
5	☐	100.000	94.434	3329263.85	1.5655	A	0.7	-5.6
6	☐	200.000	202.796	6469506.81	3.1749	A	0.9	1.4

y = 0.0149 * x + 0.1629
R = 0.9995
DL = 0.4407 ppb
BEC = 10.97 ppb

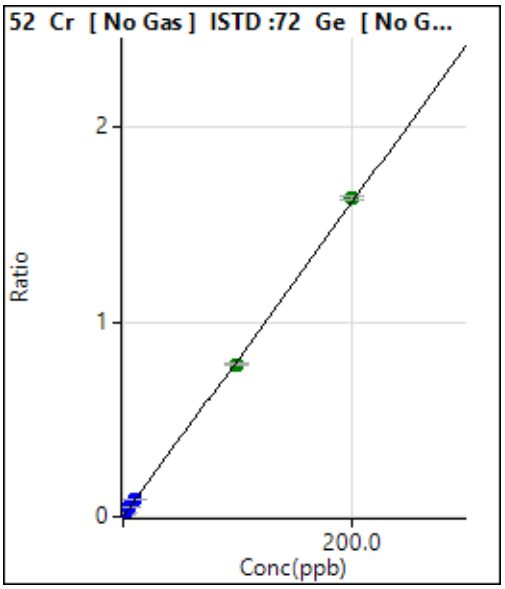
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2945.88	0.0046	P	1.0	
2	☐	2.000	1.916	11955.20	0.0184	P	4.5	-4.2
3	☐	5.000	4.768	25138.30	0.0391	P	2.2	-4.6
4	☐	10.000	9.841	48200.12	0.0758	P	1.8	-1.6
5	☐	100.000	87.138	396216.44	0.6355	P	3.6	-12.9
6	☐	200.000	206.446	885207.71	1.4993	P	1.1	3.2

y = 0.0072 * x + 0.0046
R = 0.9972
DL = 0.01938 ppb
BEC = 0.6297 ppb

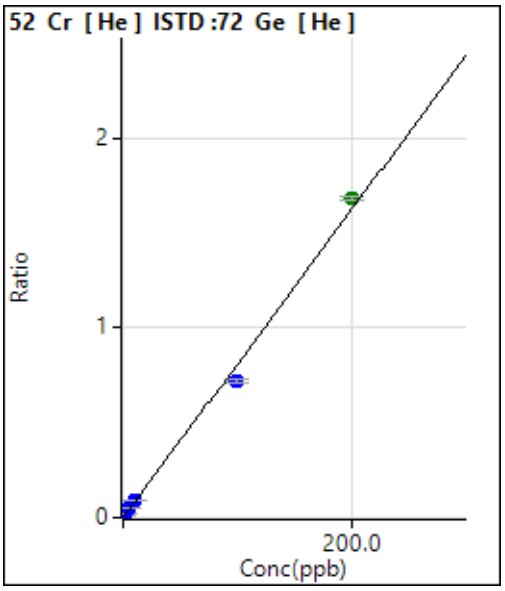
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19767.71	0.0088	P	0.8	
2	☐	2.000	1.897	54292.96	0.0241	P	0.9	-5.2
3	☐	5.000	4.910	108317.57	0.0483	P	2.5	-1.8
4	☐	10.000	10.059	197082.07	0.0898	P	2.1	0.6
5	☐	100.000	95.918	1661661.44	0.7814	A	0.6	-4.1
6	☐	200.000	202.042	3333940.58	1.6361	A	0.9	1.0

y = 0.0081 * x + 0.0088
R = 0.9997
DL = 0.02678 ppb
BEC = 1.091 ppb

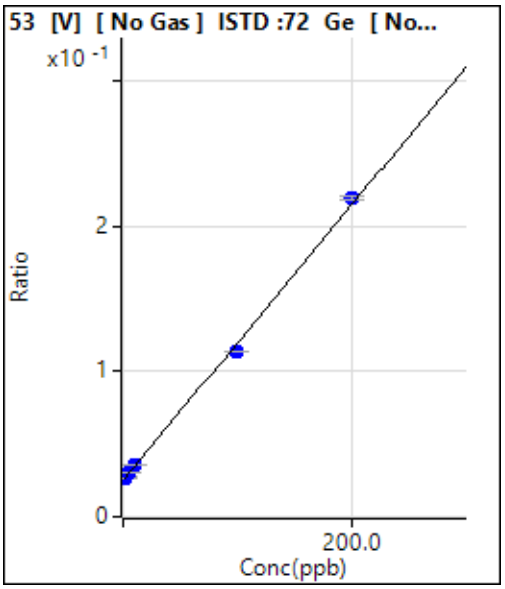
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5297.78	0.0082	P	6.8	
2	☐	2.000	2.029	16009.45	0.0247	P	3.2	1.5
3	☐	5.000	5.038	31593.06	0.0491	P	3.3	0.8
4	☐	10.000	10.089	57308.32	0.0901	P	1.5	0.9
5	☐	100.000	87.512	448255.53	0.7189	P	3.1	-12.5
6	☐	200.000	206.239	993775.85	1.6832	A	1.2	3.1

y = 0.0081 * x + 0.0082
R = 0.9973
DL = 0.2064 ppb
BEC = 1.009 ppb

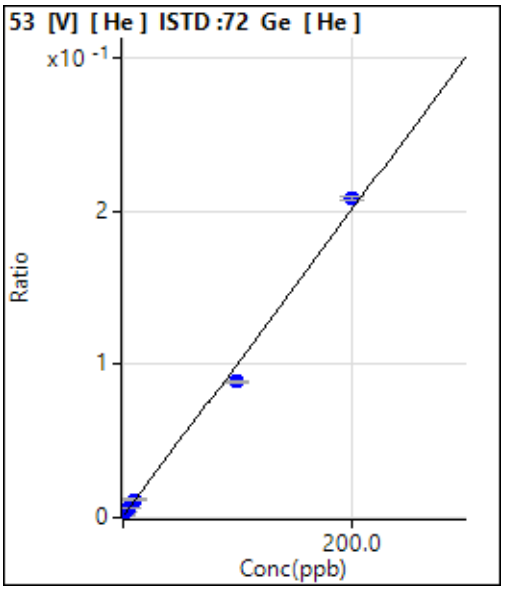
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59243.78	0.0263	P	1.7	
2	☐	2.000	0.730	60991.02	0.0270	P	2.8	-63.5
3	☐	5.000	4.490	68546.04	0.0306	P	0.4	-10.2
4	☐	10.000	9.757	78062.94	0.0356	P	1.2	-2.4
5	☐	100.000	92.249	241551.76	0.1136	P	1.0	-7.8
6	☐	200.000	203.913	446624.63	0.2192	P	1.0	2.0

y = 9.4567E-004 * x + 0.0263
R = 0.9990
DL = 1.443 ppb
BEC = 27.86 ppb

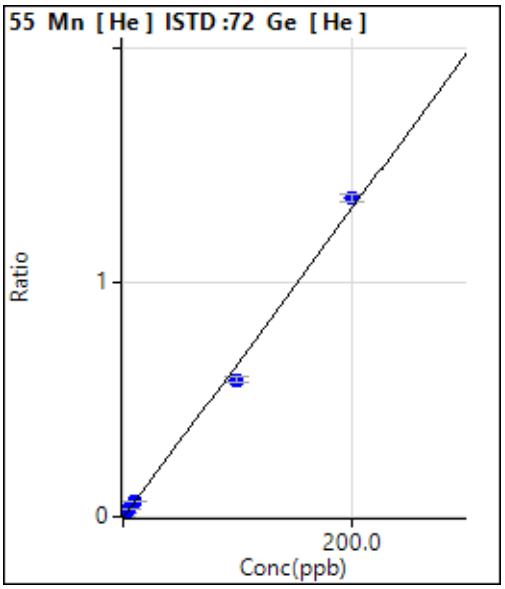
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1220.08	0.0019	P	9.6	
2	☐	2.000	1.765	2370.25	0.0037	P	8.4	-11.7
3	☐	5.000	4.749	4267.39	0.0066	P	2.6	-5.0
4	☐	10.000	9.954	7525.49	0.0118	P	3.6	-0.5
5	☐	100.000	86.807	55267.08	0.0886	P	1.7	-13.2
6	☐	200.000	206.608	123013.35	0.2084	P	1.8	3.3

y = 9.9933E-004 * x + 0.0019
R = 0.9970
DL = 0.542 ppb
BEC = 1.891 ppb

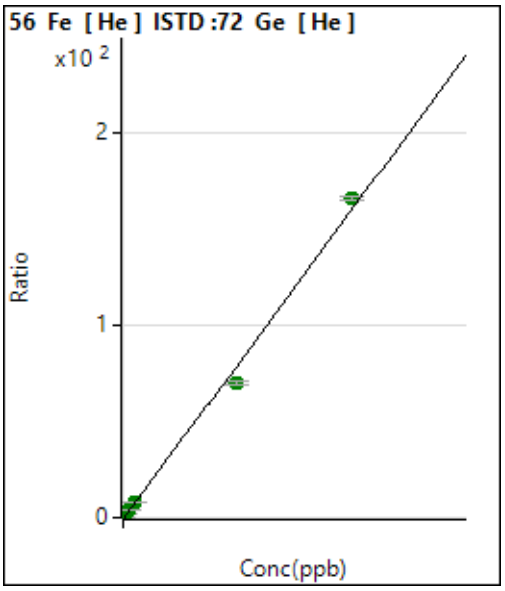
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0015	P	18.2	
2	☐	2.000	1.955	9326.64	0.0144	P	5.7	-2.2
3	☐	5.000	4.992	22151.42	0.0344	P	4.0	-0.2
4	☐	10.000	9.935	42659.59	0.0671	P	3.4	-0.6
5	☐	100.000	88.075	363694.25	0.5833	P	4.0	-11.9
6	☐	200.000	205.966	804279.18	1.3622	P	1.9	3.0

y = 0.0066 * x + 0.0015
R = 0.9975
DL = 0.1207 ppb
BEC = 0.2212 ppb

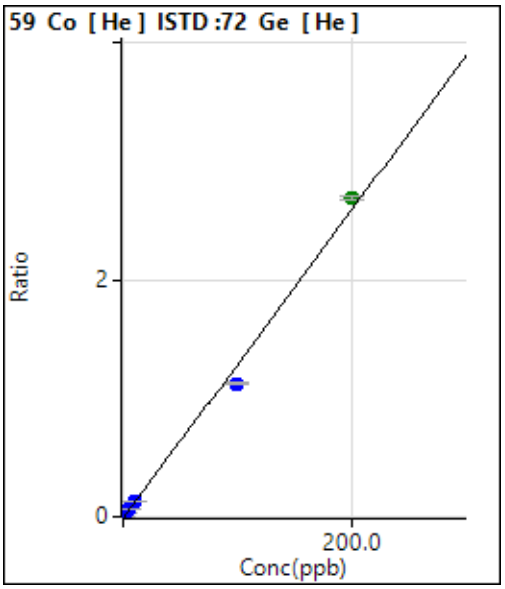
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24465.37	0.0379	P	2.0	
2	☐	200.000	193.145	1031370.90	1.5900	A	2.1	-3.4
3	☐	500.000	495.971	2587930.17	4.0235	A	2.7	-0.8
4	☐	1000.000	1002.443	5145651.90	8.0935	A	1.8	0.2
5	☐	10000.00	8699.389	43610472.68	69.9459	A	3.4	-13.0
6	☐	20000.00	20650.35	97997488.54	165.983	A	1.2	3.3

y = 0.0080 * x + 0.0379
R = 0.9971
DL = 0.2784 ppb
BEC = 4.713 ppb

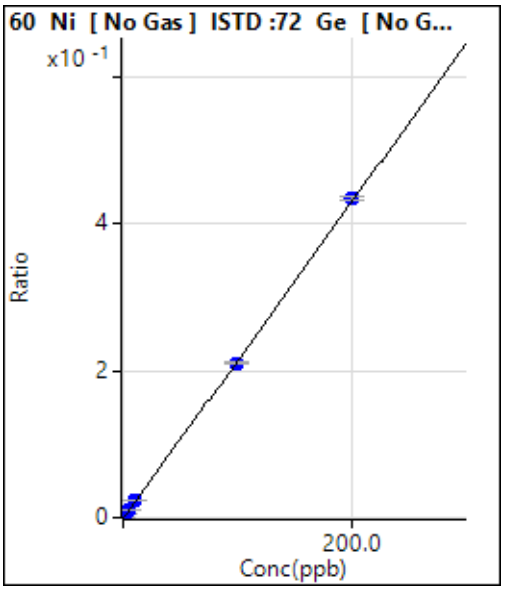
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.68	0.0006	P	19.1	
2	☐	2.000	1.908	16466.78	0.0254	P	4.3	-4.6
3	☐	5.000	4.936	41669.99	0.0648	P	3.7	-1.3
4	☐	10.000	9.877	82083.35	0.1291	P	2.7	-1.2
5	☐	100.000	86.524	702455.25	1.1266	P	2.8	-13.5
6	☐	200.000	206.747	1588902.63	2.6913	A	0.8	3.4

y = 0.0130 * x + 5.5129E-004
R = 0.9969
DL = 0.02431 ppb
BEC = 0.04236 ppb

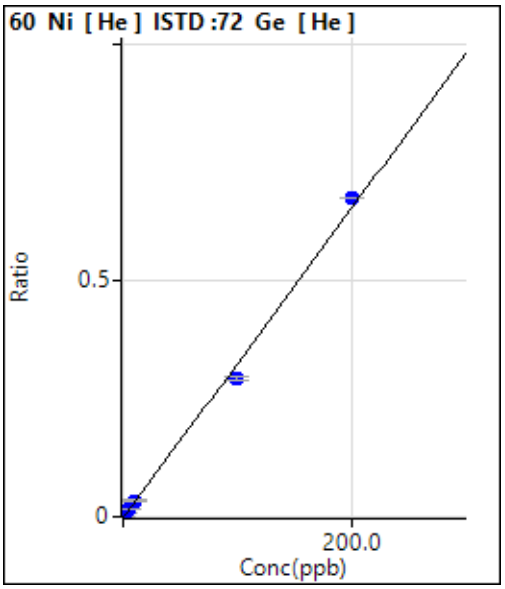
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1296.75	0.0006	P	10.2	
2	☐	2.000	1.999	11014.58	0.0049	P	1.0	0.0
3	☐	5.000	5.074	25781.12	0.0115	P	3.6	1.5
4	☐	10.000	10.241	49669.92	0.0226	P	1.7	2.4
5	☐	100.000	97.321	447036.97	0.2102	P	1.5	-2.7
6	☐	200.000	201.326	884795.19	0.4342	P	1.8	0.7

y = 0.0022 * x + 5.7660E-004
R = 0.9999
DL = 0.08162 ppb
BEC = 0.2677 ppb

Weight: <None>
Min Conc: <None>

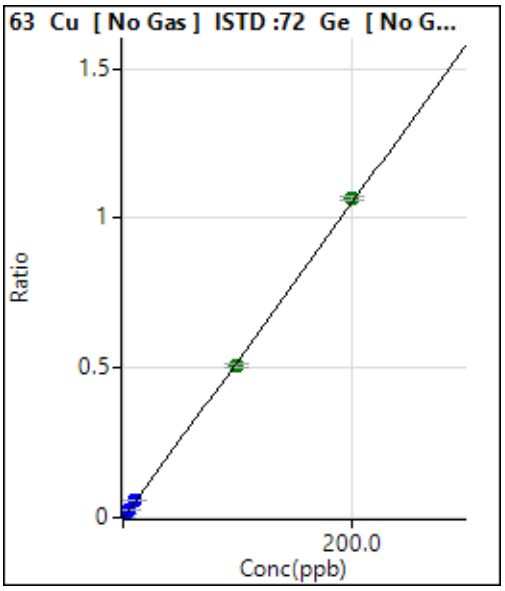


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0007	P	5.4	
2	☐	2.000	2.054	4807.60	0.0074	P	5.4	2.7
3	☐	5.000	5.201	11401.58	0.0177	P	3.7	4.0
4	☐	10.000	10.179	21643.96	0.0340	P	3.0	1.8
5	☐	100.000	88.857	182002.89	0.2919	P	2.8	-11.1
6	☐	200.000	205.557	398129.33	0.6744	P	0.2	2.8

y = 0.0033 * x + 6.8125E-004
R = 0.9978
DL = 0.03396 ppb
BEC = 0.2079 ppb

Weight: <None>
Min Conc: <None>

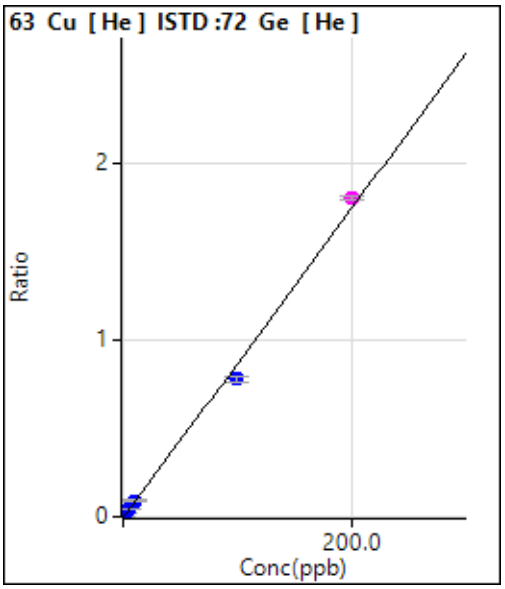
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3400.48	0.0015	P	6.0	
2	☐	2.000	2.032	27587.98	0.0122	P	3.5	1.6
3	☐	5.000	5.088	63506.38	0.0283	P	2.0	1.8
4	☐	10.000	10.319	122720.29	0.0559	P	3.2	3.2
5	☐	100.000	95.908	1078742.79	0.5072	A	1.8	-4.1
6	☐	200.000	202.028	2173799.39	1.0668	A	1.6	1.0

y = 0.0053 * x + 0.0015
R = 0.9997
DL = 0.05152 ppb
BEC = 0.2868 ppb

Weight: <None>
Min Conc: <None>

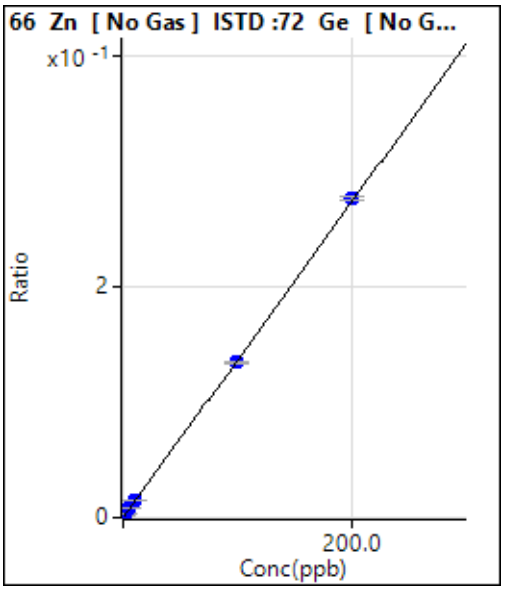


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1383.43	0.0021	P	13.3	
2	☐	2.000	2.092	13276.68	0.0205	P	1.9	4.6
3	☐	5.000	5.072	29952.99	0.0466	P	4.9	1.4
4	☐	10.000	10.277	58588.23	0.0922	P	0.9	2.8
5	☐	100.000	88.564	485025.33	0.7779	P	3.4	-11.4
6	☐	200.000	205.702	1065071.18	1.8040	M	0.8	2.9

y = 0.0088 * x + 0.0021
R = 0.9977
DL = 0.09751 ppb
BEC = 0.2445 ppb

Weight: <None>
Min Conc: <None>

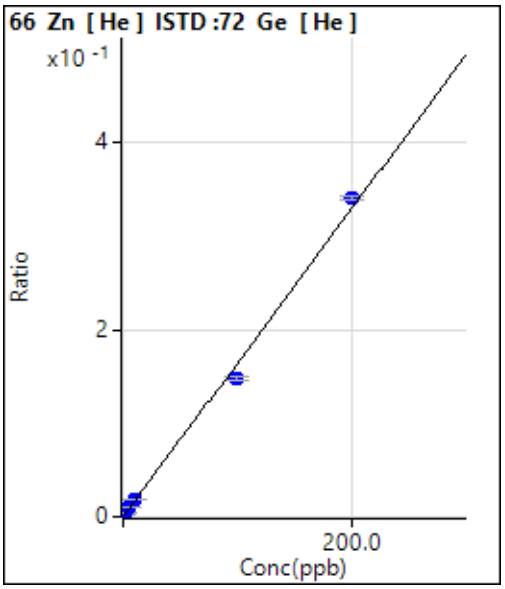
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3093.72	0.0014	P	5.9	
2	☐	2.000	1.887	8923.07	0.0040	P	3.3	-5.7
3	☐	5.000	4.955	18262.39	0.0082	P	0.9	-0.9
4	☐	10.000	10.244	33751.80	0.0154	P	2.8	2.4
5	☐	100.000	97.320	285894.18	0.1344	P	1.1	-2.7
6	☐	200.000	201.330	563702.05	0.2766	P	1.0	0.7

y = 0.0014 * x + 0.0014
R = 0.9999
DL = 0.1775 ppb
BEC = 1.006 ppb

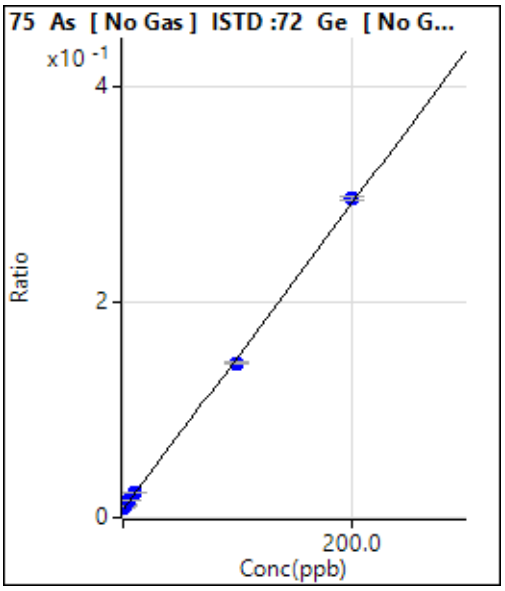
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1206.74	0.0019	P	19.6	
2	☐	2.000	1.854	3193.76	0.0049	P	3.3	-7.3
3	☐	5.000	5.042	6548.33	0.0102	P	3.2	0.8
4	☐	10.000	9.819	11481.66	0.0181	P	6.0	-1.8
5	☐	100.000	88.237	91882.98	0.1474	P	2.8	-11.8
6	☐	200.000	205.891	201545.14	0.3414	P	1.0	2.9

y = 0.0016 * x + 0.0019
R = 0.9976
DL = 0.666 ppb
BEC = 1.132 ppb

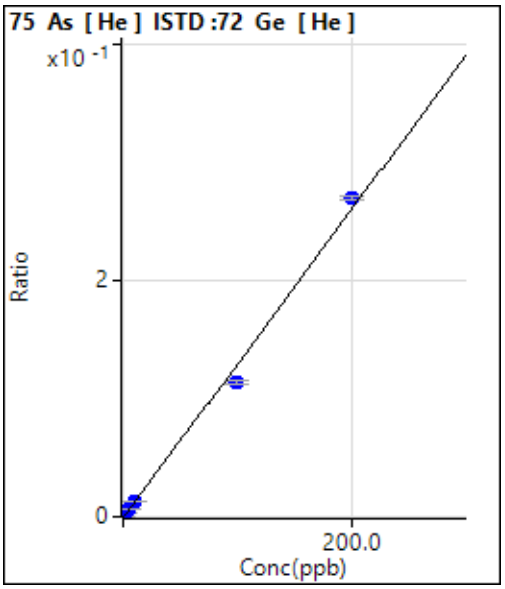
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20405.60	0.0091	P	0.5	
2	☐	2.000	1.771	26142.09	0.0116	P	3.9	-11.5
3	☐	5.000	4.816	35646.90	0.0159	P	3.4	-3.7
4	☐	10.000	9.970	50961.94	0.0232	P	1.4	-0.3
5	☐	100.000	94.882	305659.60	0.1437	P	0.6	-5.1
6	☐	200.000	202.567	604293.97	0.2966	P	0.7	1.3

y = 0.0014 * x + 0.0091
R = 0.9995
DL = 0.09065 ppb
BEC = 6.394 ppb

Weight: <None>
Min Conc: <None>

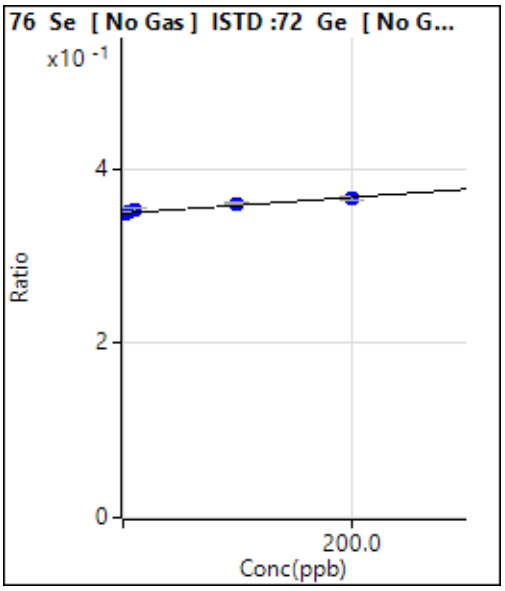


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0004	P	9.0	
2	☐	2.000	1.880	1841.25	0.0028	P	5.8	-6.0
3	☐	5.000	4.872	4340.72	0.0067	P	2.4	-2.6
4	☐	10.000	9.768	8359.27	0.0131	P	3.1	-2.3
5	☐	100.000	87.238	71322.90	0.1144	P	3.0	-12.8
6	☐	200.000	206.397	159478.93	0.2701	P	1.3	3.2

y = 0.0013 * x + 3.8182E-004
R = 0.9972
DL = 0.07929 ppb
BEC = 0.2922 ppb

Weight: <None>
Min Conc: <None>

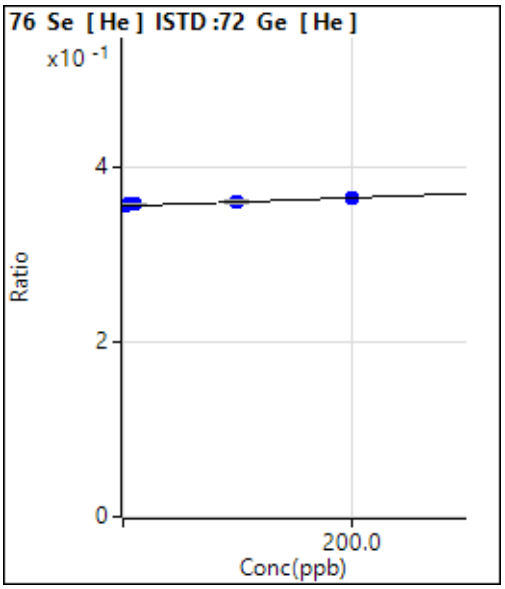
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	785402.85	0.3493	P	0.5	
2	☐	2.000	-10.525	785730.66	0.3483	P	0.7	-626.2
3	☐	5.000	8.988	784468.40	0.3501	P	0.5	79.8
4	☐	10.000	45.030	775596.06	0.3535	P	0.8	350.3
5	☐	100.000	122.768	766977.41	0.3607	P	0.7	22.8
6	☐	200.000	186.890	747070.67	0.3666	P	0.7	-6.6

y = 9.2810E-005 * x + 0.3493
R = 0.9716
DL = 54.2 ppb
BEC = 3763 ppb

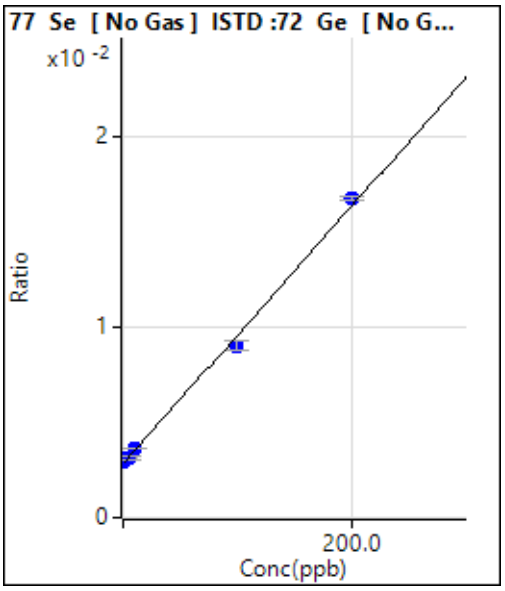
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230100.96	0.3562	P	1.1	
2	☐	2.000	21.314	231705.33	0.3572	P	1.2	965.7
3	☐	5.000	44.212	230473.84	0.3583	P	0.9	784.2
4	☐	10.000	39.140	227624.43	0.3581	P	1.1	291.4
5	☐	100.000	106.791	225319.13	0.3614	P	1.0	6.8
6	☐	200.000	193.974	215835.91	0.3656	P	0.6	-3.0

y = 4.8723E-005 * x + 0.3562
R = 0.9825
DL = 237.2 ppb
BEC = 7310 ppb

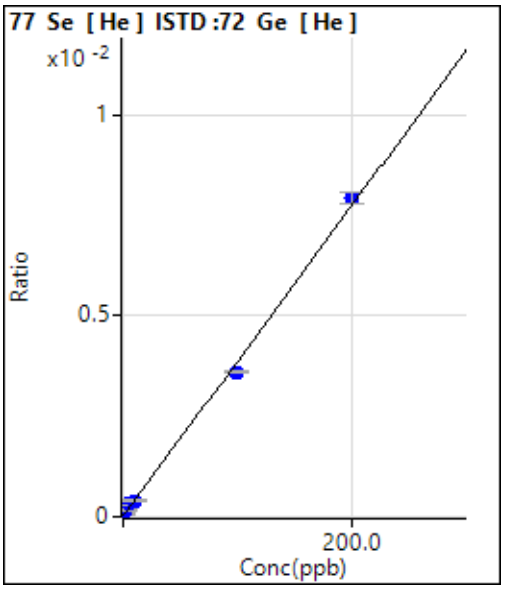
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6575.05	0.0029	P	2.6	
2	☐	2.000	2.690	7005.25	0.0031	P	2.8	34.5
3	☐	5.000	2.919	6991.93	0.0031	P	3.9	-41.6
4	☐	10.000	10.318	7942.41	0.0036	P	0.3	3.2
5	☐	100.000	90.259	19160.46	0.0090	P	5.2	-9.7
6	☐	200.000	204.900	34102.98	0.0167	P	0.9	2.4

y = 6.7408E-005 * x + 0.0029
R = 0.9983
DL = 3.425 ppb
BEC = 43.38 ppb

Weight: <None>
Min Conc: <None>

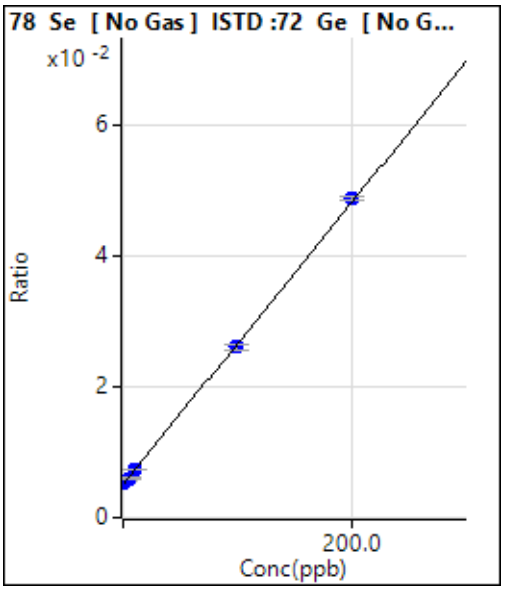


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	55.6	
2	☐	2.000	2.531	100.00	0.0002	P	36.0	26.6
3	☐	5.000	7.265	216.67	0.0003	P	23.4	45.3
4	☐	10.000	8.870	253.34	0.0004	P	6.7	-11.3
5	☐	100.000	91.966	2246.89	0.0036	P	1.7	-8.0
6	☐	200.000	204.011	4677.57	0.0079	P	3.6	2.0

y = 3.8567E-005 * x + 5.6528E-005
R = 0.9987
DL = 2.447 ppb
BEC = 1.466 ppb

Weight: <None>
Min Conc: <None>

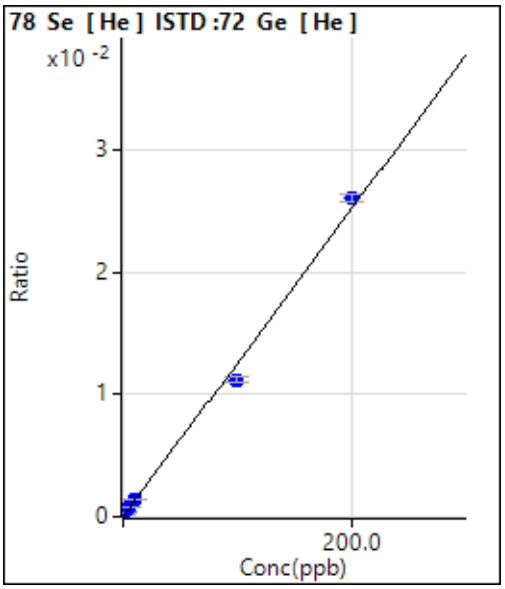
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11948.76	0.0053	P	0.4	
2	☐	2.000	1.475	12702.84	0.0056	P	3.6	-26.3
3	☐	5.000	2.951	13330.09	0.0059	P	2.8	-41.0
4	☐	10.000	9.648	16216.61	0.0074	P	2.1	-3.5
5	☐	100.000	96.392	55422.67	0.0261	P	2.7	-3.6
6	☐	200.000	201.878	99363.64	0.0488	P	1.7	0.9

y = 2.1521E-004 * x + 0.0053
R = 0.9998
DL = 0.3306 ppb
BEC = 24.69 ppb

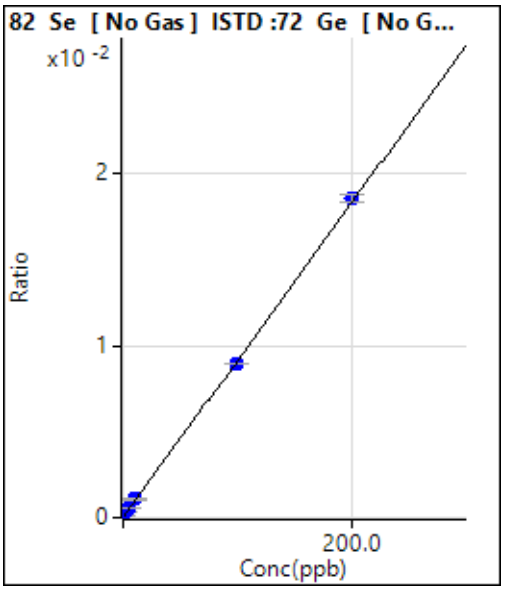
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	105.33	0.0002	P	10.4	
2	☐	2.000	1.852	257.33	0.0004	P	5.0	-7.4
3	☐	5.000	4.444	465.34	0.0007	P	0.3	-11.1
4	☐	10.000	10.327	931.37	0.0015	P	3.2	3.3
5	☐	100.000	87.985	7019.16	0.0113	P	4.6	-12.0
6	☐	200.000	206.007	15434.74	0.0261	P	2.5	3.0

y = 1.2610E-004 * x + 1.6315E-004
R = 0.9975
DL = 0.4025 ppb
BEC = 1.294 ppb

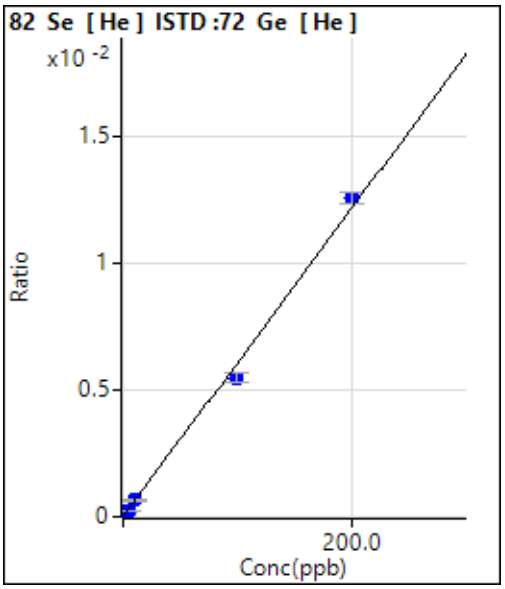
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	270.01	0.0001	P	17.0	
2	☐	2.000	2.047	693.37	0.0003	P	9.7	2.4
3	☐	5.000	4.607	1213.41	0.0005	P	12.5	-7.9
4	☐	10.000	10.477	2366.92	0.0011	P	7.3	4.8
5	☐	100.000	96.262	18983.45	0.0089	P	0.4	-3.7
6	☐	200.000	201.854	37876.37	0.0186	P	2.6	0.9

y = 9.1487E-005 * x + 1.2008E-004
R = 0.9997
DL = 0.6702 ppb
BEC = 1.313 ppb

Weight: <None>
Min Conc: <None>

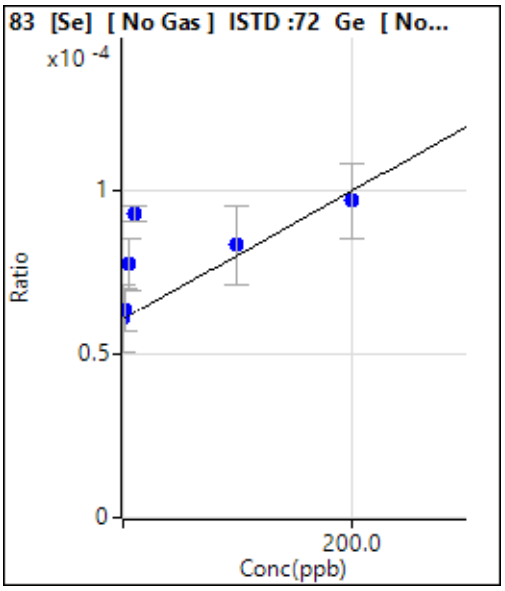


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	46.2	
2	☐	2.000	1.946	130.00	0.0002	P	38.4	-2.7
3	☐	5.000	2.488	150.00	0.0002	P	13.4	-50.2
4	☐	10.000	9.706	426.69	0.0007	P	8.8	-2.9
5	☐	100.000	88.723	3407.17	0.0055	P	6.5	-11.3
6	☐	200.000	205.717	7415.47	0.0126	P	3.5	2.9

y = 6.0672E-005 * x + 8.2304E-005
R = 0.9978
DL = 1.879 ppb
BEC = 1.357 ppb

Weight: <None>
Min Conc: <None>

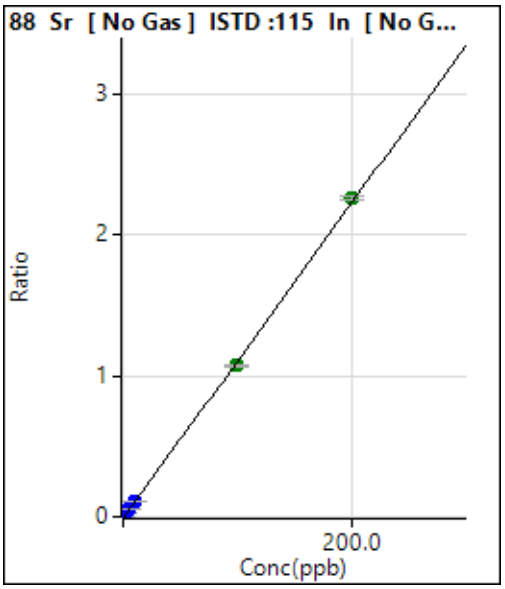
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	136.67	0.0001	P	33.2	
2	☐	2.000	13.882	143.33	0.0001	P	19.9	594.1
3	☐	5.000	84.848	173.34	0.0001	P	20.5	1597.0
4	☐	10.000	163.015	203.34	0.0001	P	5.2	1530.1
5	☐	100.000	114.513	176.67	0.0001	P	29.1	14.5
6	☐	200.000	182.978	196.67	0.0001	P	23.2	-8.5

y = 1.9536E-007 * x + 6.0804E-005
R = 0.6681
DL = 309.7 ppb
BEC = 311.2 ppb

Weight: <None>
Min Conc: <None>

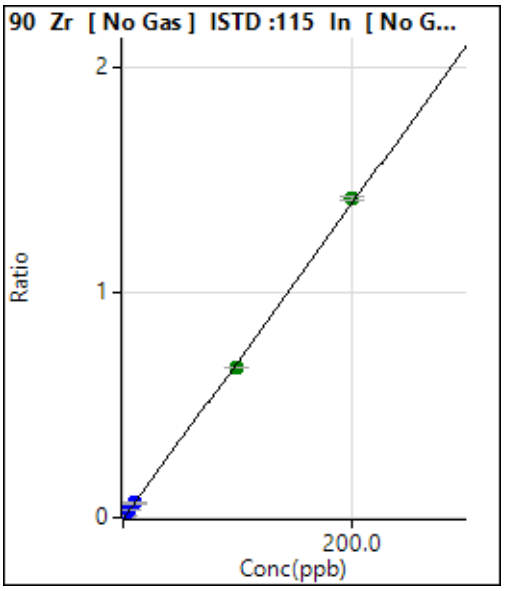


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2777.00	0.0009	P	11.9	
2	☐	2.000	1.920	70710.92	0.0223	P	3.0	-4.0
3	☐	5.000	4.858	173739.71	0.0552	P	1.4	-2.8
4	☐	10.000	9.998	351250.39	0.1126	P	1.5	0.0
5	☐	100.000	95.609	3198230.89	1.0696	A	0.3	-4.4
6	☐	200.000	202.200	6478697.61	2.2611	A	1.4	1.1

y = 0.0112 * x + 8.7612E-004
R = 0.9997
DL = 0.02788 ppb
BEC = 0.07838 ppb

Weight: <None>
Min Conc: <None>

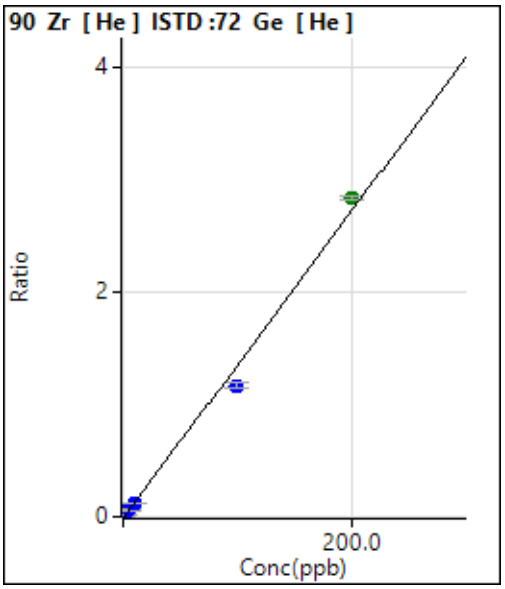
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1566.78	0.0005	P	11.1	
2	☐	2.000	1.588	36733.57	0.0116	P	4.2	-20.6
3	☐	5.000	4.329	96932.76	0.0308	P	3.4	-13.4
4	☐	10.000	9.103	200192.25	0.0642	P	2.8	-9.0
5	☐	100.000	94.896	1987143.20	0.6646	A	0.5	-5.1
6	☐	200.000	202.618	4064135.77	1.4184	A	1.6	1.3

y = 0.0070 * x + 4.9428E-004
R = 0.9996
DL = 0.02359 ppb
BEC = 0.07063 ppb

Weight: <None>
Min Conc: <None>

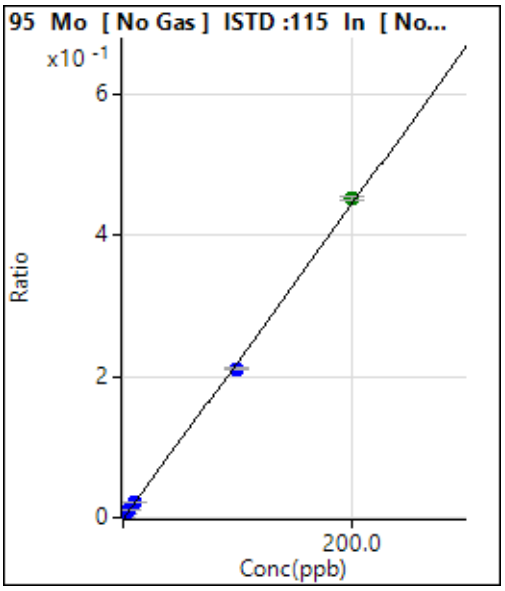


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0020	P	21.7	
2	☐	2.000	1.581	15302.24	0.0236	P	1.1	-21.0
3	☐	5.000	4.299	39069.96	0.0607	P	3.9	-14.0
4	☐	10.000	8.981	79315.50	0.1247	P	3.4	-10.2
5	☐	100.000	85.289	728032.52	1.1677	P	3.9	-14.7
6	☐	200.000	207.428	1675053.83	2.8371	A	1.7	3.7

y = 0.0137 * x + 0.0020
R = 0.9964
DL = 0.09475 ppb
BEC = 0.1454 ppb

Weight: <None>
Min Conc: <None>

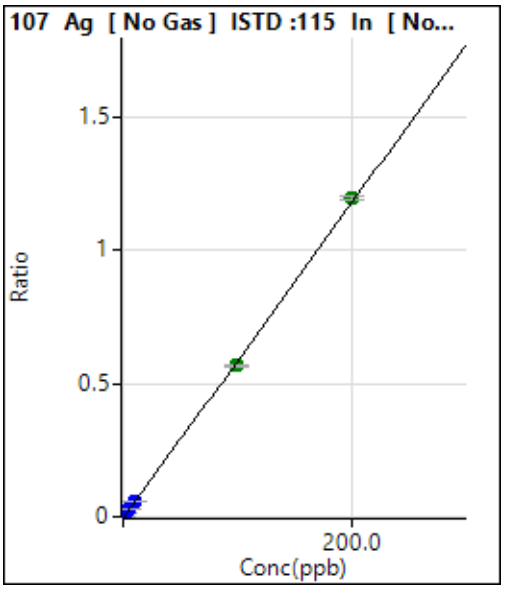
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	290.01	0.0001	P	13.5	
2	☐	2.000	1.881	13563.74	0.0043	P	5.4	-6.0
3	☐	5.000	4.702	33304.97	0.0106	P	2.5	-6.0
4	☐	10.000	9.610	67123.83	0.0215	P	3.4	-3.9
5	☐	100.000	94.408	629842.45	0.2106	P	1.0	-5.6
6	☐	200.000	202.824	1296346.39	0.4524	A	1.6	1.4

y = 0.0022 * x + 9.1425E-005
R = 0.9995
DL = 0.01659 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

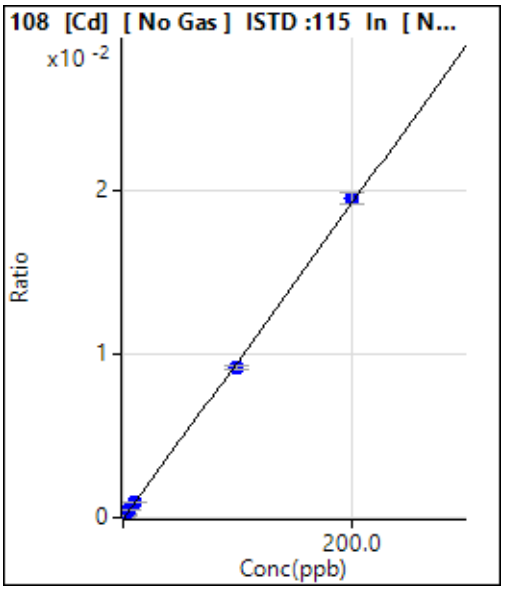


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1240.08	0.0004	P	3.7	
2	☐	2.000	1.990	38502.31	0.0122	P	3.6	-0.5
3	☐	5.000	4.927	93038.69	0.0295	P	2.9	-1.5
4	☐	10.000	10.096	187552.87	0.0601	P	1.2	1.0
5	☐	100.000	95.840	1697216.07	0.5676	A	1.1	-4.2
6	☐	200.000	202.077	3427843.39	1.1963	A	1.3	1.0

y = 0.0059 * x + 3.9109E-004
R = 0.9997
DL = 0.007261 ppb
BEC = 0.06608 ppb

Weight: <None>
Min Conc: <None>

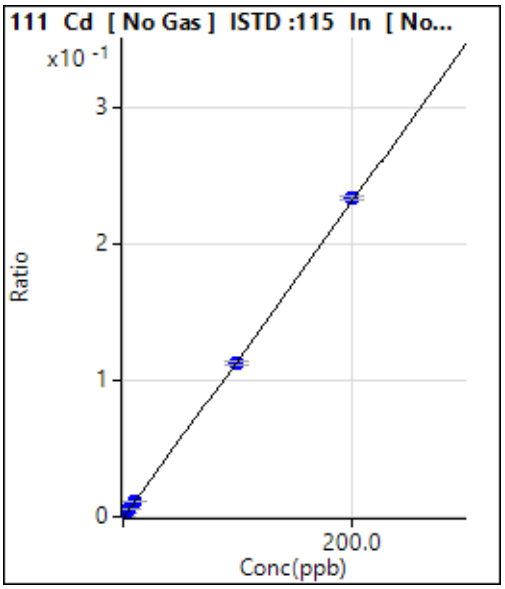
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.776	550.02	0.0002	P	15.9	-11.2
3	☐	5.000	4.837	1480.11	0.0005	P	6.3	-3.3
4	☐	10.000	9.406	2843.68	0.0009	P	3.9	-5.9
5	☐	100.000	95.277	27565.37	0.0092	P	2.1	-4.7
6	☐	200.000	202.398	56104.53	0.0196	P	3.1	1.2

y = 9.6732E-005 * x + 2.1093E-006
R = 0.9996
DL = 0.05665 ppb
BEC = 0.02181 ppb

Weight: <None>
Min Conc: <None>

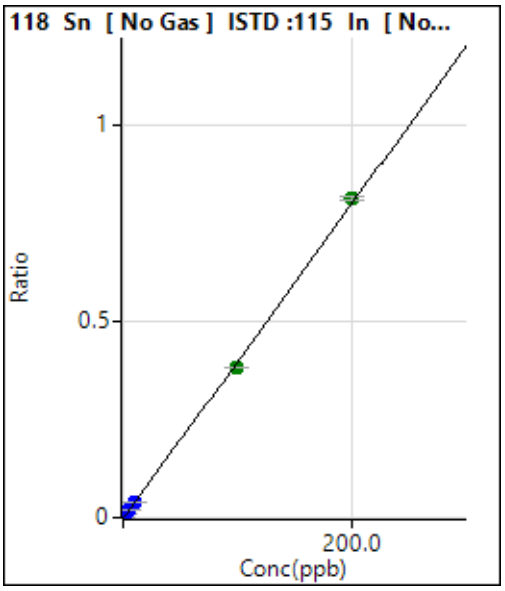


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	109.51	0.0000	P	18.8	
2	☐	2.000	1.944	7242.25	0.0023	P	0.8	-2.8
3	☐	5.000	4.985	18307.00	0.0058	P	2.0	-0.3
4	☐	10.000	9.992	36233.55	0.0116	P	3.6	-0.1
5	☐	100.000	96.840	335789.94	0.1123	P	2.3	-3.2
6	☐	200.000	201.581	669657.46	0.2337	P	1.5	0.8

y = 0.0012 * x + 3.4552E-005
R = 0.9998
DL = 0.0168 ppb
BEC = 0.02981 ppb

Weight: <None>
Min Conc: <None>

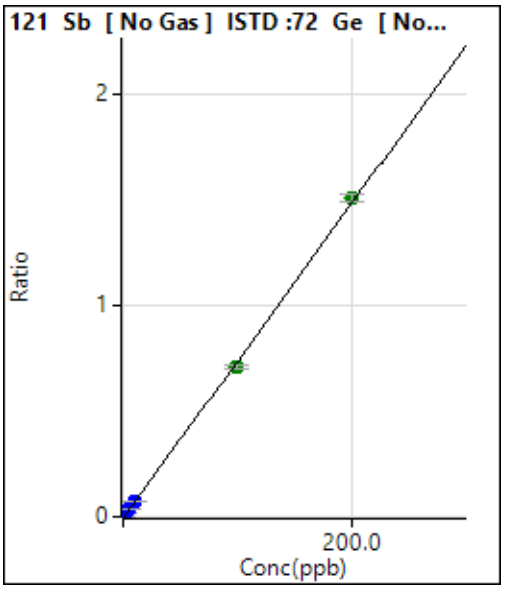
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3790.62	0.0012	P	8.8	
2	☐	2.000	1.940	28390.61	0.0090	P	3.5	-3.0
3	☐	5.000	4.829	64680.30	0.0205	P	1.7	-3.4
4	☐	10.000	9.866	126999.63	0.0407	P	3.3	-1.3
5	☐	100.000	94.845	1139860.84	0.3812	A	0.5	-5.2
6	☐	200.000	202.589	2329240.33	0.8129	A	1.4	1.3

y = 0.0040 * x + 0.0012
R = 0.9995
DL = 0.07919 ppb
BEC = 0.2984 ppb

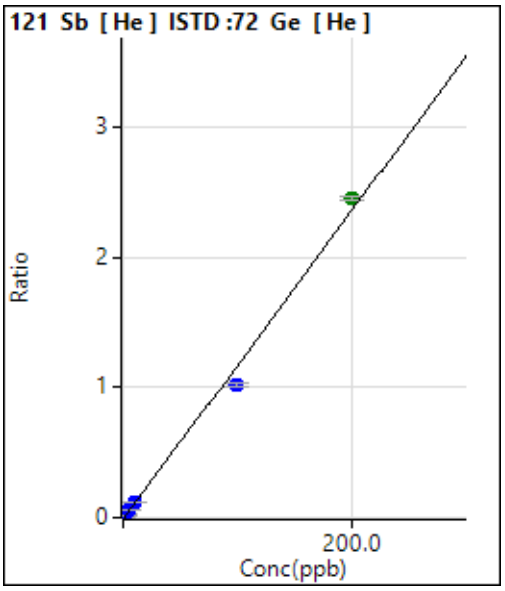
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	996.72	0.0004	P	12.2	
2	☐	2.000	1.913	33151.72	0.0147	P	3.3	-4.3
3	☐	5.000	4.844	81841.87	0.0365	P	1.4	-3.1
4	☐	10.000	9.914	163014.92	0.0743	P	1.2	-0.9
5	☐	100.000	95.148	1508211.80	0.7092	A	1.4	-4.9
6	☐	200.000	202.435	3073545.47	1.5083	A	1.9	1.2

y = 0.0074 * x + 4.4331E-004
R = 0.9996
DL = 0.02185 ppb
BEC = 0.05952 ppb

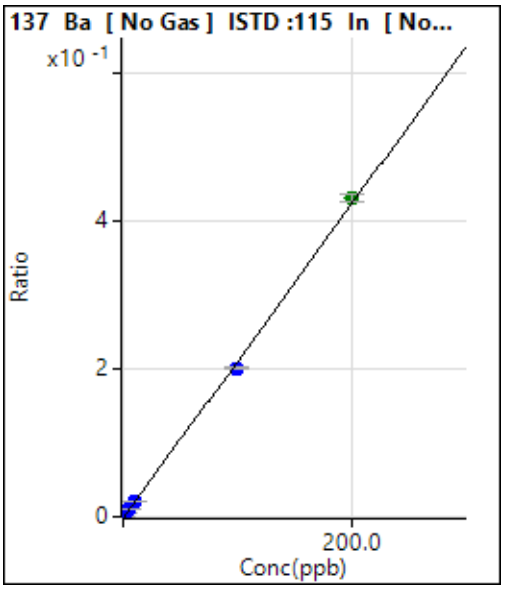
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0007	P	12.4	
2	☐	2.000	1.839	14564.87	0.0225	P	3.8	-8.1
3	☐	5.000	4.635	35725.08	0.0555	P	1.5	-7.3
4	☐	10.000	9.661	73124.42	0.1150	P	1.4	-3.4
5	☐	100.000	85.995	634879.58	1.0183	P	3.3	-14.0
6	☐	200.000	207.030	1446760.45	2.4505	A	0.9	3.5

y = 0.0118 * x + 6.9649E-004
R = 0.9966
DL = 0.02188 ppb
BEC = 0.05886 ppb

Weight: <None>
Min Conc: <None>

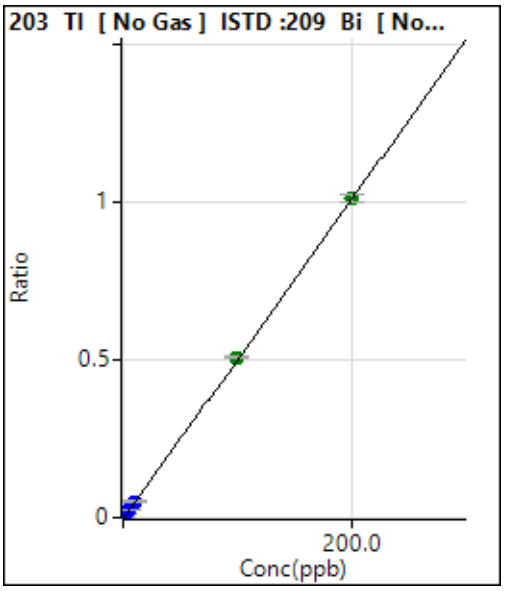


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	810.04	0.0003	P	16.4	
2	☐	2.000	1.915	13714.08	0.0043	P	1.6	-4.2
3	☐	5.000	4.933	33867.33	0.0108	P	2.8	-1.3
4	☐	10.000	9.796	65824.80	0.0211	P	1.6	-2.0
5	☐	100.000	94.395	601570.19	0.2012	P	0.6	-5.6
6	☐	200.000	202.815	1237724.43	0.4320	A	2.3	1.4

y = 0.0021 * x + 2.5548E-004
R = 0.9995
DL = 0.05893 ppb
BEC = 0.12 ppb

Weight: <None>
Min Conc: <None>

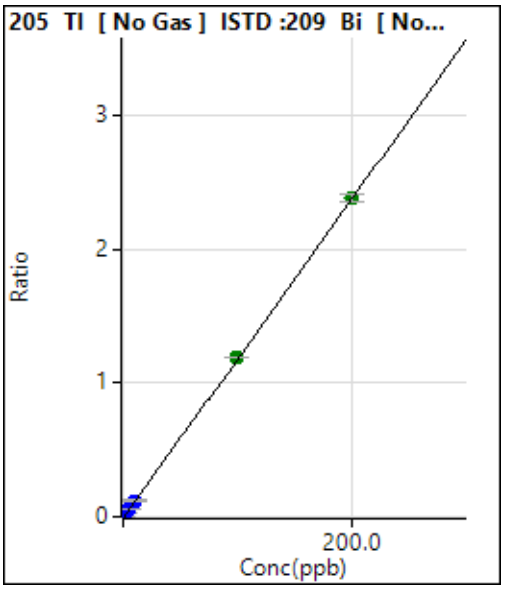
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0003	P	8.3	
2	☐	2.000	2.131	37850.45	0.0110	P	3.2	6.6
3	☐	5.000	5.241	91281.88	0.0268	P	2.2	4.8
4	☐	10.000	10.113	175035.35	0.0515	P	2.6	1.1
5	☐	100.000	100.386	1650438.46	0.5088	A	0.2	0.4
6	☐	200.000	199.794	3143447.76	1.0124	A	2.3	-0.1

y = 0.0051 * x + 2.5288E-004
R = 1.0000
DL = 0.01247 ppb
BEC = 0.04992 ppb

Weight: <None>
Min Conc: <None>

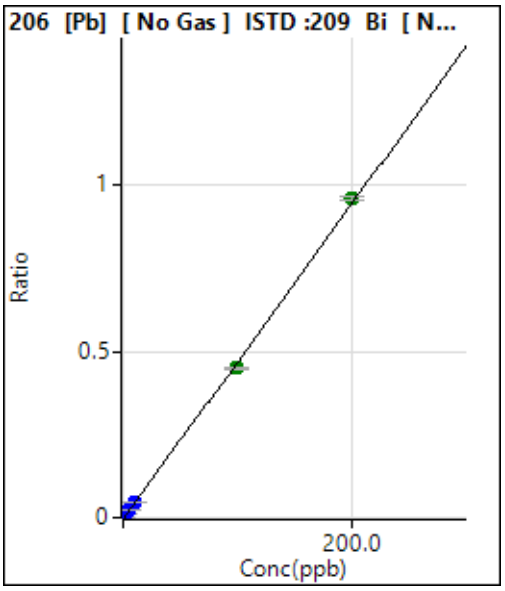


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2063.54	0.0006	P	3.0	
2	☐	2.000	2.112	88268.41	0.0258	P	2.3	5.6
3	☐	5.000	5.242	214774.69	0.0631	P	2.1	4.8
4	☐	10.000	10.149	413145.59	0.1215	P	1.5	1.5
5	☐	100.000	100.212	3875105.04	1.1946	A	0.5	0.2
6	☐	200.000	199.879	7396313.43	2.3821	A	2.3	-0.1

y = 0.0119 * x + 6.0191E-004
R = 1.0000
DL = 0.004486 ppb
BEC = 0.05052 ppb

Weight: <None>
Min Conc: <None>

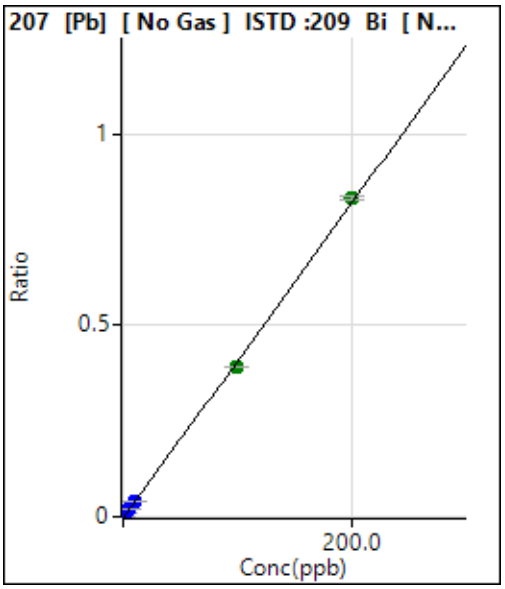
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1060.06	0.0003	P	8.7	
2	☐	2.000	1.931	32452.31	0.0095	P	4.9	-3.4
3	☐	5.000	4.835	79191.23	0.0233	P	1.6	-3.3
4	☐	10.000	9.773	158722.58	0.0467	P	1.1	-2.3
5	☐	100.000	94.686	1458457.11	0.4496	A	0.6	-5.3
6	☐	200.000	202.673	2986989.65	0.9620	A	1.6	1.3

y = 0.0047 * x + 3.0914E-004
R = 0.9995
DL = 0.01696 ppb
BEC = 0.06515 ppb

Weight: <None>
Min Conc: <None>

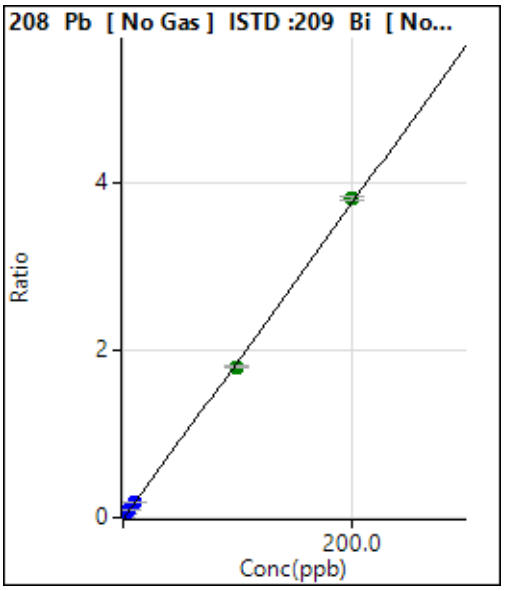


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	993.39	0.0003	P	11.3	
2	☐	2.000	1.918	28068.23	0.0082	P	1.8	-4.1
3	☐	5.000	4.879	69444.53	0.0204	P	2.3	-2.4
4	☐	10.000	10.016	141282.24	0.0416	P	0.9	0.2
5	☐	100.000	95.300	1274611.99	0.3929	A	0.7	-4.7
6	☐	200.000	202.353	2589504.70	0.8340	A	1.3	1.2

y = 0.0041 * x + 2.8962E-004
R = 0.9996
DL = 0.02393 ppb
BEC = 0.0703 ppb

Weight: <None>
Min Conc: <None>

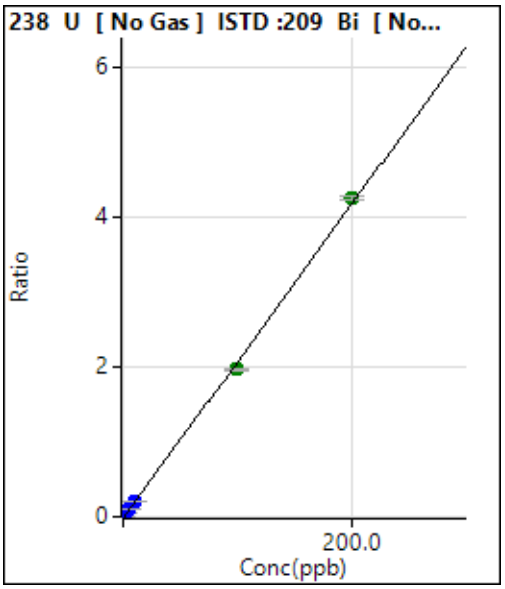
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4403.72	0.0013	P	6.1	
2	☐	2.000	1.947	130015.42	0.0380	P	2.4	-2.7
3	☐	5.000	4.885	317756.55	0.0933	P	1.5	-2.3
4	☐	10.000	9.891	637771.18	0.1876	P	1.4	-1.1
5	☐	100.000	95.250	5824240.82	1.7954	A	1.1	-4.8
6	☐	200.000	202.384	11840379.88	3.8133	A	1.3	1.2

y = 0.0188 * x + 0.0013
R = 0.9996
DL = 0.01253 ppb
BEC = 0.06818 ppb

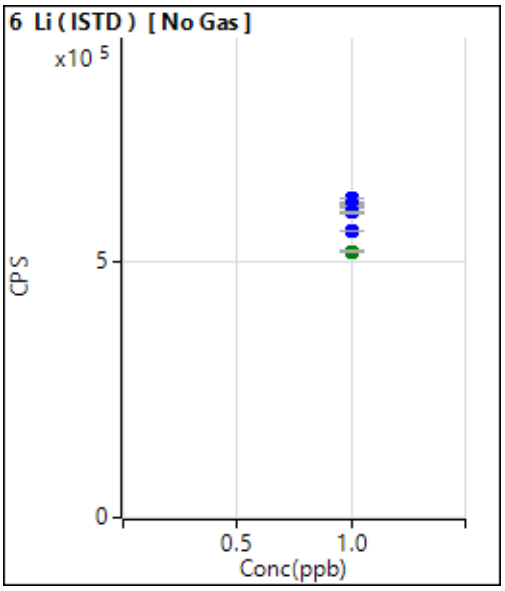
Weight: <None>
Min Conc: <None>



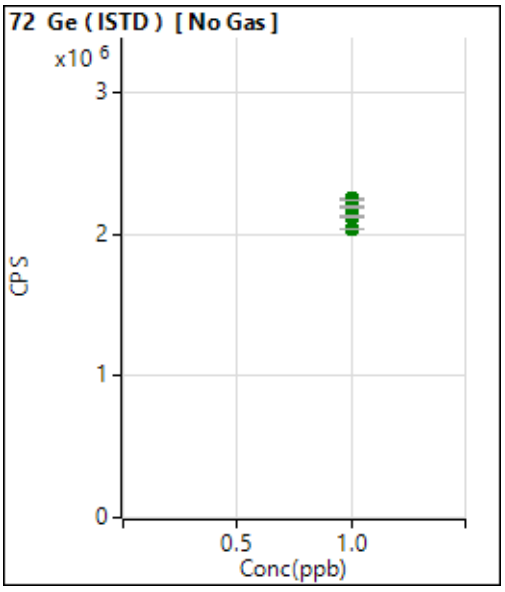
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2500.31	0.0007	P	2.9	
2	☐	2.000	1.832	134175.31	0.0392	P	1.1	-8.4
3	☐	5.000	4.618	332485.70	0.0976	P	2.6	-7.6
4	☐	10.000	9.384	671843.46	0.1976	P	2.2	-6.2
5	☐	100.000	94.090	6405808.65	1.9746	A	1.3	-5.9
6	☐	200.000	202.997	13225565.64	4.2594	A	1.1	1.5

y = 0.0210 * x + 7.2934E-004
R = 0.9994
DL = 0.002976 ppb
BEC = 0.03477 ppb

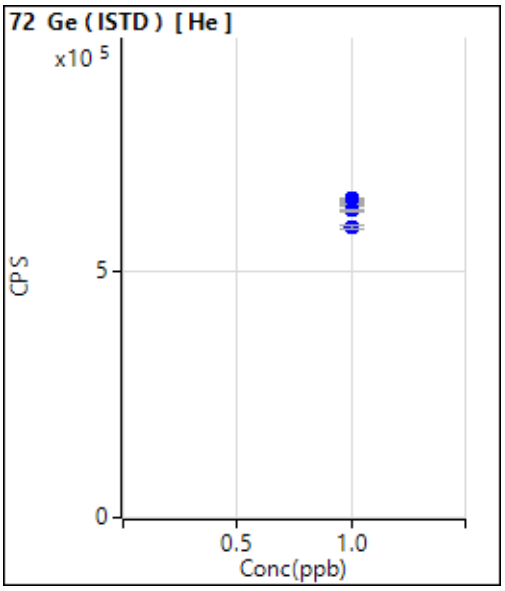
Weight: <None>
Min Conc: <None>



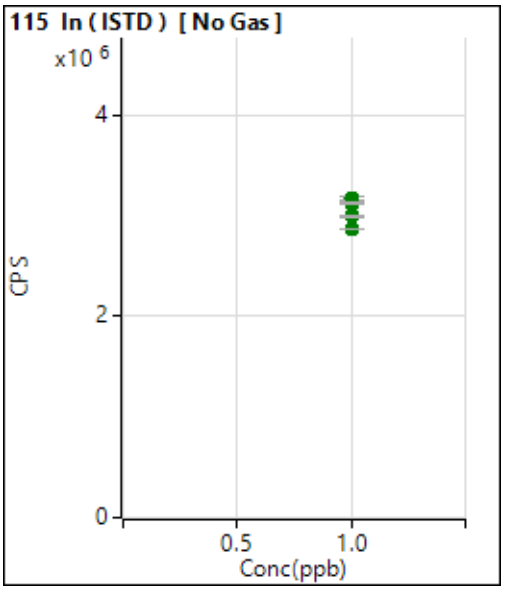
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		622487.59		P	0.3	
2	☐	1.000		612855.95		P	0.2	
3	☐	1.000		605808.88		P	0.7	
4	☐	1.000		595362.47		P	0.5	
5	☐	1.000		559757.28		P	0.2	
6	☐	1.000		518985.75		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2248670.91		A	0.2	
2	☐	1.000		2255952.10		A	0.2	
3	☐	1.000		2240673.19		A	0.2	
4	☐	1.000		2194396.42		A	0.5	
5	☐	1.000		2126602.26		A	0.6	
6	☐	1.000		2037717.00		A	0.3	

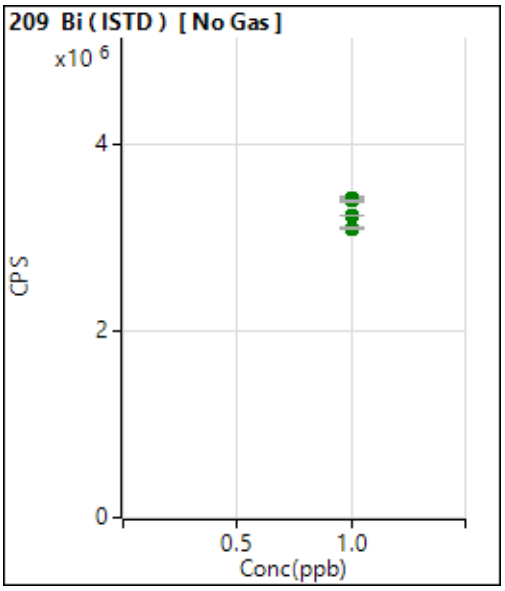


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		646115.07		P	1.1	
2	☐	1.000		648675.79		P	0.1	
3	☐	1.000		643207.97		P	0.4	
4	☐	1.000		635715.52		P	0.9	
5	☐	1.000		623543.40		P	0.5	
6	☐	1.000		590364.78		P	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3171445.01		A	0.7	
2	☐	1.000		3165678.94		A	1.2	
3	☐	1.000		3148763.18		A	0.5	
4	☐	1.000		3118576.33		A	0.4	
5	☐	1.000		2990124.82		A	0.4	
6	☐	1.000		2865334.03		A	0.0	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3428605.26		A	0.8	
2	☐	1.000		3425806.30		A	0.2	
3	☐	1.000		3405878.70		A	0.8	
4	☐	1.000		3399979.33		A	0.4	
5	☐	1.000		3243888.18		A	0.5	
6	☐	1.000		3104986.00		A	0.6	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:13:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	36346	0.00
Be	9	1	No Gas	77	32.21
V	51	2	He	2946	0.07
Cr	52	2	He	5298	0.14
Fe	56	2	He	24465	0.00
Se	78	2	He	105	8.89
As	75	2	He	247	3.59
Ca	44	2	He	693	1.67
Na	23	2	He	98351	0.00
Mg	24	2	He	3621	0.18
K	39	2	He	64720	0.00
Mn	55	2	He	943	1.85
Co	59	2	He	357	5.69
Ni	60	2	He	440	1.03
Cu	63	2	He	1383	0.94
Zn	66	2	He	1207	1.67
Al	27	2	He	957	0.71
B	11	1	No Gas	7524	0.01
Al	27	1	No Gas	31549	0.01
Si	28	1	No Gas	192643	0.00
Ag	107	1	No Gas	1240	0.23
Cd	111	1	No Gas	110	16.68
Sr	88	1	No Gas	2777	0.40
Mo	95	1	No Gas	290	4.76
Sn	118	1	No Gas	3791	0.22
Sb	121	1	No Gas	997	1.21
Ba	137	1	No Gas	810	1.99
Tl	205	1	No Gas	2064	0.13
Tl	203	1	No Gas	867	0.89
Pb	208	1	No Gas	4404	0.15
U	238	1	No Gas	2500	0.09
Ca	43	2	He	17	749.40
Sb	121	2	He	450	2.75
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	3400	0.18

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	622488	0.34
Ge	72	2	He	646115	1.07
Ge	72	1	No Gas	2248671	0.19
In	115	1	No Gas	3171445	0.75

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3428605	0.75

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:15:51-05:00
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	4316	0.05
V	51	2	He	11955	0.04
Cr	52	2	He	16009	0.02
Fe	56	2	He	1031371	0.00
Se	78	2	He	257	1.94
As	75	2	He	1841	0.31
Ca	44	2	He	6595	0.07
Na	23	2	He	236664	0.00
Mg	24	2	He	91915	0.00
K	39	2	He	177344	0.00
Mn	55	2	He	9327	0.06
Co	59	2	He	16467	0.03
Ni	60	2	He	4808	0.11
Cu	63	2	He	13277	0.01
Zn	66	2	He	3194	0.10
Al	27	2	He	1413	0.43
B	11	1	No Gas	18489	0.02
Al	27	1	No Gas	55533	0.00
Si	28	1	No Gas	247498	0.00
Ag	107	1	No Gas	38502	0.01
Cd	111	1	No Gas	7242	0.01
Sr	88	1	No Gas	70711	0.00
Mo	95	1	No Gas	13564	0.03
Sn	118	1	No Gas	28391	0.01
Sb	121	1	No Gas	33152	0.01
Ba	137	1	No Gas	13714	0.01
Tl	205	1	No Gas	88268	0.00
Tl	203	1	No Gas	37850	0.01
Pb	208	1	No Gas	130015	0.00
U	238	1	No Gas	134175	0.00
Ca	43	2	He	427	0.84
Sb	121	2	He	14565	0.03
Cu	63	1	No Gas	27588	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	612856	0.17	622488	98.45	70	120	
Ge	72	2	He	648676	0.12	646115	100.40	70	120	
Ge	72	1	No Gas	2255952	0.24	2248671	100.32	70	120	

Calibration Standard Report

In	115	1	No Gas	3165679	1.23	3171445	99.82	70	120	
Bi	209	1	No Gas	3425806	0.16	3428605	99.92	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\070124A.b
Acq Date Time	2024-07-01T10:18:32-05:00
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	11013	0.01
V	51	2	He	25138	0.01
Cr	52	2	He	31593	0.01
Fe	56	2	He	2587930	0.00
Se	78	2	He	465	0.11
As	75	2	He	4341	0.06
Ca	44	2	He	15682	0.02
Na	23	2	He	445009	0.00
Mg	24	2	He	220546	0.00
K	39	2	He	344104	0.00
Mn	55	2	He	22151	0.02
Co	59	2	He	41670	0.01
Ni	60	2	He	11402	0.03
Cu	63	2	He	29953	0.02
Zn	66	2	He	6548	0.05
Al	27	2	He	2340	0.34
B	11	1	No Gas	35457	0.00
Al	27	1	No Gas	87340	0.00
Si	28	1	No Gas	333822	0.00
Ag	107	1	No Gas	93039	0.00
Cd	111	1	No Gas	18307	0.01
Sr	88	1	No Gas	173740	0.00
Mo	95	1	No Gas	33305	0.01
Sn	118	1	No Gas	64680	0.00
Sb	121	1	No Gas	81842	0.00
Ba	137	1	No Gas	33867	0.01
Tl	205	1	No Gas	214775	0.00
Tl	203	1	No Gas	91282	0.00
Pb	208	1	No Gas	317757	0.00
U	238	1	No Gas	332486	0.00
Ca	43	2	He	873	1.22
Sb	121	2	He	35725	0.01
Cu	63	1	No Gas	63506	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	605809	0.68	622488	97.32	70	120	
Ge	72	2	He	643208	0.38	646115	99.55	70	120	
Ge	72	1	No Gas	2240673	0.20	2248671	99.64	70	120	

Calibration Standard Report

In	115	1	No Gas	3148763	0.47	3171445	99.28	70	120	
Bi	209	1	No Gas	3405879	0.80	3428605	99.34	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\070124A.b
Acq Date Time	2024-07-01T10:21:13-05:00
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	21790	0.01
V	51	2	He	48200	0.01
Cr	52	2	He	57308	0.00
Fe	56	2	He	5145652	0.00
Se	78	2	He	931	0.25
As	75	2	He	8359	0.04
Ca	44	2	He	30841	0.01
Na	23	2	He	808276	0.00
Mg	24	2	He	444534	0.00
K	39	2	He	623356	0.00
Mn	55	2	He	42660	0.01
Co	59	2	He	82083	0.00
Ni	60	2	He	21644	0.02
Cu	63	2	He	58588	0.00
Zn	66	2	He	11482	0.06
Al	27	2	He	3541	0.02
B	11	1	No Gas	64767	0.00
Al	27	1	No Gas	146139	0.00
Si	28	1	No Gas	481709	0.00
Ag	107	1	No Gas	187553	0.00
Cd	111	1	No Gas	36234	0.01
Sr	88	1	No Gas	351250	0.00
Mo	95	1	No Gas	67124	0.01
Sn	118	1	No Gas	127000	0.00
Sb	121	1	No Gas	163015	0.00
Ba	137	1	No Gas	65825	0.00
Tl	205	1	No Gas	413146	0.00
Tl	203	1	No Gas	175035	0.00
Pb	208	1	No Gas	637771	0.00
U	238	1	No Gas	671843	0.00
Ca	43	2	He	1830	0.38
Sb	121	2	He	73124	0.00
Cu	63	1	No Gas	122720	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	595362	0.47	622488	95.64	70	120	
Ge	72	2	He	635716	0.87	646115	98.39	70	120	
Ge	72	1	No Gas	2194396	0.46	2248671	97.59	70	120	

Calibration Standard Report

In	115	1	No Gas	3118576	0.38	3171445	98.33	70	120	
Bi	209	1	No Gas	3399979	0.37	3428605	99.17	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\070124A.b
Acq Date Time	2024-07-01T10:23:53-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	199782	0.00
V	51	2	He	396216	0.00
Cr	52	2	He	448256	0.00
Fe	56	2	He	43610473	0.00
Se	78	2	He	7019	0.06
As	75	2	He	71323	0.00
Ca	44	2	He	260545	0.00
Na	23	2	He	6242287	0.00
Mg	24	2	He	3760801	0.00
K	39	2	He	4938583	0.00
Mn	55	2	He	363694	0.00
Co	59	2	He	702455	0.00
Ni	60	2	He	182003	0.00
Cu	63	2	He	485025	0.00
Zn	66	2	He	91883	0.00
Al	27	2	He	25553	0.01
B	11	1	No Gas	544452	0.00
Al	27	1	No Gas	1066858	0.00
Si	28	1	No Gas	2842290	0.00
Ag	107	1	No Gas	1697216	0.00
Cd	111	1	No Gas	335790	0.00
Sr	88	1	No Gas	3198231	0.00
Mo	95	1	No Gas	629842	0.00
Sn	118	1	No Gas	1139861	0.00
Sb	121	1	No Gas	1508212	0.00
Ba	137	1	No Gas	601570	0.00
Tl	205	1	No Gas	3875105	0.00
Tl	203	1	No Gas	1650438	0.00
Pb	208	1	No Gas	5824241	0.00
U	238	1	No Gas	6405809	0.00
Ca	43	2	He	15075	0.01
Sb	121	2	He	634880	0.00
Cu	63	1	No Gas	1078743	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	559757	0.16	622488	89.92	70	120	
Ge	72	2	He	623543	0.47	646115	96.51	70	120	
Ge	72	1	No Gas	2126602	0.63	2248671	94.57	70	120	

Calibration Standard Report

In	115	1	No Gas	2990125	0.44	3171445	94.28	70	120	
Bi	209	1	No Gas	3243888	0.53	3428605	94.61	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\070124A.b
Acq Date Time	2024-07-01T10:27:02-05:00
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	398985	0.00
V	51	2	He	885208	0.00
Cr	52	2	He	993776	0.00
Fe	56	2	He	97997489	0.00
Se	78	2	He	15435	0.02
As	75	2	He	159479	0.00
Ca	44	2	He	577052	0.00
Na	23	2	He	13724795	0.00
Mg	24	2	He	8362118	0.00
K	39	2	He	10709749	0.00
Mn	55	2	He	804279	0.00
Co	59	2	He	1588903	0.00
Ni	60	2	He	398129	0.00
Cu	63	2	He	1065071	0.00
Zn	66	2	He	201545	0.00
Al	27	2	He	57016	0.00
B	11	1	No Gas	1097397	0.00
Al	27	1	No Gas	2119460	0.00
Si	28	1	No Gas	5536701	0.00
Ag	107	1	No Gas	3427843	0.00
Cd	111	1	No Gas	669657	0.00
Sr	88	1	No Gas	6478698	0.00
Mo	95	1	No Gas	1296346	0.00
Sn	118	1	No Gas	2329240	0.00
Sb	121	1	No Gas	3073545	0.00
Ba	137	1	No Gas	1237724	0.00
Tl	205	1	No Gas	7396313	0.00
Tl	203	1	No Gas	3143448	0.00
Pb	208	1	No Gas	11840380	0.00
U	238	1	No Gas	13225566	0.00
Ca	43	2	He	33470	0.01
Sb	121	2	He	1446760	0.00
Cu	63	1	No Gas	2173799	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	518986	0.34	622488	83.37	70	120	
Ge	72	2	He	590365	0.93	646115	91.37	70	120	
Ge	72	1	No Gas	2037717	0.28	2248671	90.62	70	120	

Calibration Standard Report

In	115	1	No Gas	2865334	0.03	3171445	90.35	70	120	
Bi	209	1	No Gas	3104986	0.62	3428605	90.56	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:40:29-05:00
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	209367	0.00
V	51	2	He	451699	0.00
Cr	52	2	He	514177	0.00
Fe	56	2	He	50175644	0.00
Se	78	2	He	7826	0.03
As	75	2	He	81242	0.00
Ca	44	2	He	294787	0.00
Na	23	2	He	7020856	0.00
Mg	24	2	He	4296269	0.00
K	39	2	He	5510034	0.00
Mn	55	2	He	411014	0.00
Co	59	2	He	804287	0.00
Ni	60	2	He	206685	0.00
Cu	63	2	He	552045	0.00
Zn	66	2	He	106300	0.00
Al	27	2	He	29344	0.00
B	11	1	No Gas	561607	0.00
Al	27	1	No Gas	1115176	0.00
Si	28	1	No Gas	2952328	0.00
Ag	107	1	No Gas	1756136	0.00
Cd	111	1	No Gas	348485	0.00
Sr	88	1	No Gas	3338637	0.00
Mo	95	1	No Gas	649369	0.00
Sn	118	1	No Gas	1194750	0.00
Sb	121	1	No Gas	1569858	0.00
Ba	137	1	No Gas	621303	0.00
Tl	205	1	No Gas	3862006	0.00
Tl	203	1	No Gas	1646690	0.00
Pb	208	1	No Gas	6080667	0.00
U	238	1	No Gas	6706853	0.00
Ca	43	2	He	16914	0.01
Sb	121	2	He	714969	0.00
Cu	63	1	No Gas	1129188	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	563585	0.56	622488	90.54	70	120	
Ge	72	2	He	620635	1.06	646115	96.06	70	120	
Ge	72	1	No Gas	2135107	0.45	2248671	94.95	70	120	

Calibration Standard Report

In	115	1	No Gas	3005400	0.53	3171445	94.76	70	120	
Bi	209	1	No Gas	3278648	0.64	3428605	95.63	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:48:12-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.478	2.742	828647	3.00	100	100.5	90	110	
Be	9	1	No Gas	101.623	2.597	213530	2.94	100	101.6	90	110	
V	51	2	He	100.520	0.562	469795	1.01	100	100.5	90	110	
Cr	52	2	He	101.532	1.295	534949	1.73	100	101.5	90	110	
Fe	56	2	He	9941.715	1.739	51362056	2.11	10000	99.4	90	110	
Se	78	2	He	99.347	2.710	8108	3.06	100	99.3	90	110	
As	75	2	He	100.032	1.923	84096	2.30	100	100.0	90	110	
Ca	44	2	He	9898.566	0.867	301197	1.07	10000	99.0	90	110	
Na	23	2	He	10150.891	0.870	7182813	1.23	10000	101.5	90	110	
Mg	24	2	He	9973.125	0.676	4400115	1.06	10000	99.7	90	110	
K	39	2	He	9968.611	1.299	5657814	1.59	10000	99.7	90	110	
Mn	55	2	He	100.981	1.509	428258	1.85	100	101.0	90	110	
Co	59	2	He	98.949	1.713	826973	2.01	100	98.9	90	110	
Ni	60	2	He	101.168	2.549	213071	2.73	100	101.2	90	110	
Cu	63	2	He	101.736	2.148	573089	2.46	100	101.7	90	110	
Zn	66	2	He	101.331	2.558	108735	2.89	100	101.3	90	110	
Al	27	2	He	102.826	1.980	31278	1.28	100	102.8	90	110	
B	11	1	No Gas	472.702	0.936	561813	1.36	500	94.5	90	110	
Al	27	1	No Gas	101.849	1.926	1146837	2.24	100	101.8	90	110	
Si	28	1	No Gas	497.736	2.063	2980008	2.32	500	99.5	90	110	
Ag	107	1	No Gas	99.499	1.842	1789984	2.25	100	99.5	90	110	
Cd	111	1	No Gas	99.895	2.500	352093	2.58	100	99.9	90	110	
Sr	88	1	No Gas	98.865	1.496	3365492	1.89	100	98.9	90	110	
Mo	95	1	No Gas	97.450	1.508	659958	1.93	100	97.5	90	110	
Sn	118	1	No Gas	99.159	1.677	1213494	2.10	100	99.2	90	110	
Sb	121	1	No Gas	99.818	1.935	1604083	2.31	100	99.8	90	110	
Ba	137	1	No Gas	97.999	1.358	634167	1.78	100	98.0	90	110	
Tl	205	1	No Gas	105.113	2.557	4133564	2.73	100	105.1	90	110	
Tl	203	1	No Gas	105.305	2.080	1761049	2.25	100	105.3	90	110	
Pb	208	1	No Gas	98.770	2.093	6197449	2.27	100	98.8	90	110	
U	238	1	No Gas	99.032	1.914	6921879	2.08	100	99.0	90	110	
Ca	43	2	He	10110.845	2.924	17798	2.72	10000	101.1	90	110	
Sb	121	2	He	98.218	1.037	743993	1.52	100	98.2	90	110	
Ti	47	2	He	99.736	3.025	17464	2.56	100	99.7	90	110	
Cu	63	1	No Gas	100.977	2.045	1152653	2.44	100	101.0	90	110	
Se	82	1	No Gas	101.060	1.471	20125	1.75	100	101.1	90	110	
Zr	90	1	No Gas	89.182	1.395	1887274	1.71	100	89.2	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.759	1.542	773577	1.96	100	88.8	90	1100	ICV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	565713	0.62	622488	90.88	70	120	
Ge	72	2	He	625643	0.67	646115	96.83	70	120	
Ge	72	1	No Gas	2141076	0.54	2248671	95.22	70	120	
In	115	1	No Gas	3020587	0.42	3171445	95.24	70	120	
Bi	209	1	No Gas	3308146	0.18	3428605	96.49	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:53:00-05:00
Sample Type	LLCCV2
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	1.968	1.968	2.93	51575	0.00	2	
Be	9	1	No Gas	1.968	1.968	1.12	4459	0.04	2	
V	51	2	He	1.873	1.873	2.94	11818	0.02	2	
Cr	52	2	He	1.931	1.931	1.70	15552	0.01	2	
Fe	56	2	He	195.946	195.946	2.48	1059171	0.02	200	
Se	78	2	He	1.660	1.660	29.09	241	0.69	2	
As	75	2	He	1.966	1.966	2.54	1930	0.10	2	
Ca	44	2	He	192.865	192.865	1.45	6675	2.89	200	
Na	23	2	He	176.894	176.894	1.71	223733	0.08	200	
Mg	24	2	He	198.571	198.571	3.93	93127	0.21	200	
K	39	2	He	198.516	198.516	3.95	178073	0.11	200	
Mn	55	2	He	1.895	1.895	2.56	9136	0.02	2	
Co	59	2	He	1.943	1.943	3.01	16957	0.01	2	
Ni	60	2	He	2.054	2.054	2.69	4851	0.04	2	
Cu	63	2	He	2.008	2.008	2.90	12913	0.02	2	
Zn	66	2	He	1.946	1.946	5.55	3307	0.06	2	
Al	27	2	He	2.129	2.129	20.01	1590	0.13	2	
B	11	1	No Gas	10.214	10.214	2.61	19974	0.05	10	
Al	27	1	No Gas	2.106	2.106	1.88	54760	0.00	2	
Si	28	1	No Gas	7.415	7.415	1.92	231977	0.00	10	
Ag	107	1	No Gas	1.980	1.980	2.58	38509	0.01	2	
Cd	111	1	No Gas	1.930	1.930	2.53	7229	0.03	2	
Sr	88	1	No Gas	1.920	1.920	0.51	71140	0.00	2	
Mo	95	1	No Gas	1.914	1.914	2.50	13857	0.01	2	
Sn	118	1	No Gas	1.948	1.948	3.50	28661	0.01	2	
Sb	121	1	No Gas	1.999	1.999	1.97	34064	0.01	2	
Ba	137	1	No Gas	1.942	1.942	0.82	13948	0.01	2	
Tl	205	1	No Gas	2.169	2.169	1.13	90483	0.00	2	
Tl	203	1	No Gas	2.183	2.183	2.07	38716	0.01	2	
Pb	208	1	No Gas	1.977	1.977	1.31	132983	0.00	2	
U	238	1	No Gas	1.860	1.860	1.31	137249	0.00	2	
Ca	43	2	He	229.780	229.780	5.98	430	53.44	200	
Sb	121	2	He	1.912	1.912	2.88	15252	0.01	2	
Ti	47	2	He	2.180	2.180	28.42	397	0.55	200	
Cu	63	1	No Gas	2.076	2.076	1.98	27692	0.01	2	
Se	82	1	No Gas	1.885	1.885	36.75	647	0.29	2	
Zr	90	1	No Gas	1.675	1.675	1.61	38656	0.00	2	
Zr	90	2	He	1.705	1.705	2.72	16444	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	600120	0.30	622488	96.41	70	120	

Sample Report

Ge	72	2	He	639897	0.40	646115	99.04	70	120	
Ge	72	1	No Gas	2206639	0.27	2248671	98.13	70	120	
In	115	1	No Gas	3162777	0.21	3171445	99.73	70	120	
Bi	209	1	No Gas	3430775	0.35	3428605	100.06	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:55:25-05:00
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	4.884	4.884	0.95	75394	0.01	5	
Be	9	1	No Gas	4.871	4.871	2.65	10833	0.04	5	
V	51	2	He	4.844	4.844	0.88	25568	0.02	5	
Cr	52	2	He	5.025	5.025	0.86	31610	0.02	5	
Fe	56	2	He	498.838	498.838	1.42	2621273	0.02	500	
Se	78	2	He	4.829	4.829	2.00	495	0.97	5	
As	75	2	He	4.825	4.825	0.85	4320	0.11	5	
Ca	44	2	He	498.989	498.989	1.00	15953	3.13	500	
Na	23	2	He	482.088	482.088	1.00	435434	0.11	500	
Mg	24	2	He	506.702	506.702	1.35	228781	0.22	500	
K	39	2	He	496.301	496.301	1.75	344090	0.14	500	
Mn	55	2	He	4.973	4.973	5.08	22148	0.02	5	
Co	59	2	He	4.994	4.994	1.37	42416	0.01	5	
Ni	60	2	He	4.914	4.914	2.72	10844	0.05	5	
Cu	63	2	He	4.991	4.991	1.58	29635	0.02	5	
Zn	66	2	He	4.333	4.333	5.98	5815	0.07	5	
Al	27	2	He	4.162	4.162	9.32	2174	0.19	5	
B	11	1	No Gas	23.207	23.207	1.90	35838	0.06	25	
Al	27	1	No Gas	4.712	4.712	2.39	83725	0.01	5	
Si	28	1	No Gas	22.043	22.043	4.02	314853	0.01	25	
Ag	107	1	No Gas	5.040	5.040	1.24	94908	0.01	5	
Cd	111	1	No Gas	5.000	5.000	4.17	18325	0.03	5	
Sr	88	1	No Gas	4.944	4.944	1.74	176613	0.00	5	
Mo	95	1	No Gas	4.782	4.782	1.98	33753	0.01	5	
Sn	118	1	No Gas	4.891	4.891	3.71	65434	0.01	5	
Sb	121	1	No Gas	4.929	4.929	2.79	82083	0.01	5	
Ba	137	1	No Gas	4.816	4.816	3.05	32982	0.01	5	
Tl	205	1	No Gas	5.307	5.307	2.72	218605	0.00	5	
Tl	203	1	No Gas	5.242	5.242	3.40	91823	0.01	5	
Pb	208	1	No Gas	4.869	4.869	2.06	321292	0.00	5	
U	238	1	No Gas	4.651	4.651	1.31	339818	0.00	5	
Ca	43	2	He	582.820	582.820	7.78	1050	55.50	500	
Sb	121	2	He	4.857	4.857	4.51	37503	0.01	5	
Ti	47	2	He	4.947	4.947	12.39	880	0.56	5	
Cu	63	1	No Gas	4.986	4.986	2.57	61474	0.01	5	
Se	82	1	No Gas	5.428	5.428	12.50	1357	0.40	5	
Zr	90	1	No Gas	4.395	4.395	1.52	97641	0.00	5	
Zr	90	2	He	4.493	4.493	1.31	40681	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	594833	0.37	622488	95.56	70	120	

Sample Report

Ge	72	2	He	630869	1.03	646115	97.64	70	120	
Ge	72	1	No Gas	2193953	0.17	2248671	97.57	70	120	
In	115	1	No Gas	3123222	0.27	3171445	98.48	70	120	
Bi	209	1	No Gas	3433849	0.77	3428605	100.15	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:57:49-05:00
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	-0.085	-81.7	33932	1.9	0.5	
Be	9	1	No Gas	-0.011	-90.1	48	46.6	0.5	
V	51	2	He	-0.062	-13.1	2617	0.9	2.5	
Cr	52	2	He	0.019	315.0	5338	5.5	2.5	
Fe	56	2	He	0.707	17.2	27925	2.3	100	
Se	78	2	He	0.013	707.0	105	7.2	1	
As	75	2	He	-0.049	-48.9	202	9.9	2.5	
Ca	44	2	He	21.109	18.6	1340	9.5	100	
Na	23	2	He	-31.609	-4.3	74714	1.1	100	
Mg	24	2	He	-3.151	-6.3	2160	4.2	100	
K	39	2	He	-7.387	-9.1	59771	1.2	100	
Mn	55	2	He	0.017	221.3	1007	16.3	2.5	
Co	59	2	He	-0.025	-9.2	137	15.2	2.5	
Ni	60	2	He	-0.049	-18.4	330	5.2	2.5	
Cu	63	2	He	-0.097	-21.6	810	15.5	1	
Zn	66	2	He	0.136	47.7	1340	5.2	2.5	
Al	27	2	He	1.350	16.9	1353	5.7	5	
B	11	1	No Gas	0.937	31.2	8324	4.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.711	4.5	50156	2.0	5	
Si	28	1	No Gas	0.553	57.2	191719	1.2	10	
Ag	107	1	No Gas	-0.039	-6.9	490	10.8	2.5	
Cd	111	1	No Gas	-0.035	-4.8	-18	-32.6	1	
Sr	88	1	No Gas	0.040	10.6	4127	3.5	2.5	
Mo	95	1	No Gas	-0.014	-49.1	190	24.1	2.5	
Sn	118	1	No Gas	0.073	24.5	4651	4.7	5	
Sb	121	1	No Gas	-0.017	-33.7	703	13.4	2.5	
Ba	137	1	No Gas	0.151	14.0	1803	7.8	2.5	
Tl	205	1	No Gas	-0.025	-8.8	1050	9.2	1	
Tl	203	1	No Gas	-0.022	-13.5	483	11.4	1	
Pb	208	1	No Gas	-0.030	-5.1	2460	4.5	2.5	
U	238	1	No Gas	-0.023	-4.1	833	8.5	2.5	
Ca	43	2	He	50.220	71.8	107	60.3	100	
Sb	121	2	He	-0.020	-26.0	290	13.8	2.5	
Ti	47	2	He	-0.037	0.0	0	#DIV/0!	2.5	
Se	82	1	No Gas	0.095	162.9	283	10.8	1	
Zr	90	1	No Gas	0.066	7.7	2984	4.3	2.5	
Zr	90	2	He	0.074	14.0	1924	4.2	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	593237	0.51	622488	95.30	70	120	
Ge	72	2	He	638915	0.65	646115	98.89	70	120	
Ge	72	1	No Gas	2200640	0.40	2248671	97.86	70	120	
In	115	1	No Gas	3122312	0.67	3171445	98.45	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3460705	0.52	3428605	100.94	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:04:28-05:00
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	0.265	8.6	35030	0.7	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.000	1563.6	70	12.4	0	ICSA Main CR1 Failed
V	51	2	He	0.223	7.2	3825	2.3	0	ICSA Main CR1 Failed
Cr	52	2	He	0.843	7.3	9377	2.8	0	ICSA Main CR1 Failed
Fe	56	2	He	103572.934	0.9	526366072	0.5	0	
Se	78	2	He	-0.039	-493.7	97	15.6	0	ICSA Main CR1 Failed
As	75	2	He	0.312	18.5	492	9.9	0	ICSA Main CR1 Failed
Ca	44	2	He	106707.847	1.3	3188964	1.0	0	
Na	23	2	He	108573.056	1.2	74697462	0.8	0	
Mg	24	2	He	105013.309	1.4	45562466	0.9	0	
K	39	2	He	106248.998	1.3	58748826	0.9	0	
Mn	55	2	He	1.873	1.8	8700	2.1	0	ICSA Main CR1 Failed
Co	59	2	He	1.020	3.2	8730	3.5	0	ICSA Main CR1 Failed
Ni	60	2	He	0.977	4.7	2440	3.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.538	8.1	4294	5.6	0	ICSA Main CR1 Failed
Zn	66	2	He	2.724	6.9	3994	4.3	0	ICSA Main CR1 Failed
Al	27	2	He	107653.503	1.1	31276070	0.7	0	
B	11	1	No Gas	1.761	10.6	8880	2.2	0	
Al	27	1	No Gas	100458.617	2.3	1076730304	1.5	0	
Si	28	1	No Gas	31.401	4.2	351810	2.6	0	
Ag	107	1	No Gas	-0.020	-30.0	767	13.4	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.797	9.7	2738	9.4	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.948	2.9	32813	2.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2086.636	1.6	13278493	1.5	0	
Sn	118	1	No Gas	0.235	13.1	6092	5.7	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.053	4.3	1760	1.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.445	8.5	3431	6.7	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	-0.023	-14.0	990	11.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	-0.021	-12.7	433	9.6	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.879	3.4	53845	3.0	0	ICSA Main CR1 Failed
U	238	1	No Gas	-0.017	-7.6	1100	7.4	0	ICSA Main CR1 Failed
Ca	43	2	He	103601.235	1.5	179339	1.3	0	
Sb	121	2	He	0.069	11.8	947	6.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2124.401	1.0	366003	0.6	0	
Se	82	1	No Gas	0.234	146.3	297	22.9	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	564136	0.22	622488	90.63	70	120	
Ge	72	2	He	615735	0.60	646115	95.30	70	120	
Ge	72	1	No Gas	2093122	0.87	2248671	93.08	70	120	
In	115	1	No Gas	2839568	0.10	3171445	89.54	70	120	
Bi	209	1	No Gas	3001008	0.08	3428605	87.53	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:06:57-05:00
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	105.900	1.886	864777	0.95	100	105.9	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	97.647	2.706	203569	1.88	100	97.6	80	120	
V	51	2	He	104.837	1.278	492510	1.28	100	104.8	80	120	
Cr	52	2	He	103.425	1.562	547767	1.42	100	103.4	80	120	
Fe	56	2	He	110828.564	1.186	575426685	1.15	100	110828.6	80	120	ICSB Main CR1 Failed
Se	78	2	He	110.089	1.650	9022	1.63	100	110.1	80	120	
As	75	2	He	106.611	1.049	90096	1.19	100	106.6	80	120	
Ca	44	2	He	114027.863	1.751	3481407	1.61	100	114027.9	80	120	ICSB Main CR1 Failed
Na	23	2	He	116674.833	1.570	82001767	1.44	100	116674.8	80	120	
Mg	24	2	He	112298.220	1.579	49777994	1.46	100	112298.2	80	120	ICSB Main CR1 Failed
K	39	2	He	113453.057	1.910	64085879	1.79	100	113453.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	104.140	2.438	444001	2.19	100	104.1	80	120	
Co	59	2	He	99.644	1.347	837284	1.16	100	99.6	80	120	
Ni	60	2	He	99.101	2.265	209848	1.97	100	99.1	80	120	
Cu	63	2	He	97.949	1.381	554789	1.37	100	97.9	80	120	
Zn	66	2	He	102.186	2.724	110233	2.74	100	102.2	80	120	
Al	27	2	He	103614.244	1.594	30754173	1.48	100	103614.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	502.086	1.686	591681	0.84	100	502.1	80	120	
Al	27	1	No Gas	98660.571	1.532	1082854171	1.08	100	98660.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	552.147	1.158	3288811	1.01	100	552.1	80	120	
Ag	107	1	No Gas	99.837	2.179	1745920	1.52	100	99.8	80	120	
Cd	111	1	No Gas	102.589	1.984	351509	1.32	100	102.6	80	120	
Sr	88	1	No Gas	108.016	2.038	3574183	1.40	100	108.0	80	120	
Mo	95	1	No Gas	2159.991	2.421	14213961	1.76	100	2160.0	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.762	1.815	1246105	1.15	100	104.8	80	120	
Sb	121	1	No Gas	102.902	1.334	1655134	0.98	100	102.9	80	120	
Ba	137	1	No Gas	102.957	1.646	647652	1.35	100	103.0	80	120	
Tl	205	1	No Gas	101.149	1.559	3718172	1.41	100	101.1	80	120	
Tl	203	1	No Gas	101.339	1.865	1584168	1.68	100	101.3	80	120	
Pb	208	1	No Gas	104.736	1.017	6142824	0.95	100	104.7	80	120	
U	238	1	No Gas	105.897	1.260	6918647	1.18	100	105.9	80	120	
Ca	43	2	He	110524.129	1.539	195458	1.26	100	110524.1	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.615	1.453	773870	1.40	100	101.6	80	120	
Ti	47	2	He	2157.622	1.412	379779	1.56	100	2157.6	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	98.128	1.448	1121232	1.05	100	98.1	80	120	
Se	82	1	No Gas	110.195	5.246	21941	5.04	100	110.2	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	561386	0.86	622488	90.18	70	120	
Ge	72	2	He	629048	0.39	646115	97.36	70	120	
Ge	72	1	No Gas	2143226	0.64	2248671	95.31	70	120	
In	115	1	No Gas	2936709	0.79	3171445	92.60	70	120	
Bi	209	1	No Gas	3092411	0.34	3428605	90.19	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	034_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:25:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.572	1.112	778579	1.92	100	100.6	90	110	
Be	9	1	No Gas	100.989	1.066	199200	1.93	100	101.0	90	110	
V	51	2	He	101.639	1.231	464020	0.79	100	101.6	90	110	
Cr	52	2	He	102.164	1.173	525803	0.91	100	102.2	90	110	
Fe	56	2	He	10121.723	1.868	51081161	1.42	10000	101.2	90	110	
Se	78	2	He	104.096	1.256	8294	0.84	100	104.1	90	110	
As	75	2	He	101.233	1.226	83133	0.76	100	101.2	90	110	
Ca	44	2	He	10113.376	1.770	300608	1.33	10000	101.1	90	110	
Na	23	2	He	10274.870	1.488	7101348	1.02	10000	102.7	90	110	
Mg	24	2	He	10090.051	1.296	4348820	0.92	10000	100.9	90	110	
K	39	2	He	10120.858	1.324	5610528	0.89	10000	101.2	90	110	
Mn	55	2	He	102.490	1.976	424590	1.57	100	102.5	90	110	
Co	59	2	He	101.056	1.496	825051	1.06	100	101.1	90	110	
Ni	60	2	He	102.547	1.005	210978	0.63	100	102.5	90	110	
Cu	63	2	He	101.855	1.612	560483	1.18	100	101.9	90	110	
Zn	66	2	He	101.383	1.233	106272	0.94	100	101.4	90	110	
Al	27	2	He	103.436	1.946	30734	1.47	100	103.4	90	110	
B	11	1	No Gas	474.948	0.444	529868	1.28	500	95.0	90	110	
Al	27	1	No Gas	99.796	1.901	1097676	1.92	100	99.8	90	110	
Si	28	1	No Gas	486.505	1.823	2847744	1.75	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.344	0.428	1765404	1.87	100	99.3	90	110	
Cd	111	1	No Gas	100.971	0.767	351551	1.80	100	101.0	90	110	
Sr	88	1	No Gas	100.152	0.763	3367651	1.82	100	100.2	90	110	
Mo	95	1	No Gas	97.432	0.141	651755	1.32	100	97.4	90	110	
Sn	118	1	No Gas	100.555	0.541	1215542	1.99	100	100.6	90	110	
Sb	121	1	No Gas	102.752	2.199	1611997	2.00	100	102.8	90	110	
Ba	137	1	No Gas	99.413	0.498	635468	1.91	100	99.4	90	110	
Tl	205	1	No Gas	105.912	1.524	4134907	2.02	100	105.9	90	110	
Tl	203	1	No Gas	106.087	1.240	1761338	1.87	100	106.1	90	110	
Pb	208	1	No Gas	99.944	0.957	6225673	1.44	100	99.9	90	110	
U	238	1	No Gas	100.429	0.682	6968732	1.31	100	100.4	90	110	
Ca	43	2	He	10045.306	3.476	17274	3.03	10000	100.5	90	110	
Sb	121	2	He	101.147	1.560	748446	1.13	100	101.1	90	110	
Ti	47	2	He	101.481	1.628	17361	1.25	100	101.5	90	110	
Cu	63	1	No Gas	100.393	2.817	1118813	2.79	100	100.4	90	110	
Se	82	1	No Gas	102.355	1.937	19898	2.39	100	102.4	90	110	
Zr	90	1	No Gas	88.141	0.357	1842506	1.60	100	88.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	89.467	1.749	761695	1.34	100	89.5	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	531054	0.87	622488	85.31	70	120	
Ge	72	2	He	611215	0.47	646115	94.60	70	120	
Ge	72	1	No Gas	2090406	0.47	2248671	92.96	70	120	
In	115	1	No Gas	2983768	1.46	3171445	94.08	70	120	
Bi	209	1	No Gas	3284207	0.63	3428605	95.79	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	035_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:28:01-05:00
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	0.059	29.6	33947	0.6	0.5	
Be	9	1	No Gas	0.016	101.9	105	33.3	0.5	
V	51	2	He	-0.309	-0.1	1419	0.6	2.5	
Cr	52	2	He	-0.330	-0.2	3414	0.6	2.5	
Fe	56	2	He	-1.540	-5.1	15779	2.8	100	
Se	78	2	He	0.004	5337.5	103	18.1	2	
As	75	2	He	-0.067	-44.9	183	14.2	2.5	
Ca	44	2	He	-7.978	-39.8	430	22.9	100	
Na	23	2	He	-40.902	-3.3	66828	1.9	100	
Mg	24	2	He	-5.046	-4.6	1283	8.4	100	
K	39	2	He	0.530	286.4	63116	1.8	100	
Mn	55	2	He	-0.073	-21.5	607	10.5	2.5	
Co	59	2	He	-0.019	-22.8	183	20.7	2.5	
Ni	60	2	He	-0.087	-29.7	243	22.6	2.5	
Cu	63	2	He	-0.153	-3.2	483	5.2	2	
Zn	66	2	He	-0.116	-78.9	1047	9.8	2.5	
Al	27	2	He	-0.232	-60.8	860	5.3	5	
B	11	1	No Gas	2.321	23.4	9690	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.048	-69.0	29899	0.9	5	
Si	28	1	No Gas	-1.585	-7.2	176800	0.1	10	
Ag	107	1	No Gas	-0.040	-12.9	470	20.3	2.5	
Cd	111	1	No Gas	-0.021	-12.9	30	33.6	1	
Sr	88	1	No Gas	-0.056	-4.2	773	10.8	2.5	
Mo	95	1	No Gas	0.067	34.3	750	21.0	2.5	
Sn	118	1	No Gas	0.057	34.6	4414	5.7	5	
Sb	121	1	No Gas	0.005	155.7	1040	11.3	2.5	
Ba	137	1	No Gas	-0.077	-4.0	280	7.1	2.5	
Tl	205	1	No Gas	0.083	71.6	5358	43.9	1	
Tl	203	1	No Gas	0.089	75.5	2374	47.8	1	
Pb	208	1	No Gas	-0.022	-3.3	2934	1.4	2.5	
U	238	1	No Gas	-0.016	-17.1	1290	14.9	2.5	
Ca	43	2	He	9.691	34.8	33	17.3	100	
Sb	121	2	He	0.003	391.3	460	19.6	2.5	
Ti	47	2	He	0.020	281.0	10	100.0	2.5	
Cu	63	1	No Gas	-0.185	-4.2	1143	7.5	2.5	
Se	82	1	No Gas	0.132	194.1	287	17.6	2	
Zr	90	1	No Gas	0.065	34.5	2930	16.1	2.5	
Zr	90	2	He	0.050	5.9	1683	1.2	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	573211	0.33	622488	92.08	70	120	
Ge	72	2	He	627046	0.49	646115	97.05	70	120	
Ge	72	1	No Gas	2169113	0.49	2248671	96.46	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	3098670	0.41	3171445	97.71	70	120	
Bi	209	1	No Gas	3373975	0.58	3428605	98.41	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10SD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:34:32-05:00
Sample Type	Sample
Dilution	50
Comment	TW B 214140
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	0.401	20.026	13.38	36679	0.00	2000	
Be	9	1	No Gas	0.004	0.222	52.34	80	0.01	2000	
V	51	2	He	-0.305	-15.227	-0.79	1433	-0.02	2000	
Cr	52	2	He	-0.321	-16.052	-5.38	3444	-0.01	2000	
Fe	56	2	He	641.015	32050.731	1.99	3323594	0.02	200000	
Se	78	2	He	0.136	6.814	173.01	113	0.12	2000	
As	75	2	He	-0.044	-2.217	-67.86	201	-0.02	2000	
Ca	44	2	He	446.331	22316.571	4.31	14178	3.15	200000	
Na	23	2	He	2849.440	142471.977	2.66	2078355	0.14	200000	
Mg	24	2	He	158.163	7908.146	2.81	73005	0.22	200000	
K	39	2	He	52.569	2628.438	2.22	91904	0.06	200000	
Mn	55	2	He	10.211	510.530	1.40	43990	0.02	2000	
Co	59	2	He	-0.001	-0.043	-943.91	337	0.00	2000	
Ni	60	2	He	-0.104	-5.214	-36.64	207	-0.05	2000	
Cu	63	2	He	-0.151	-7.546	-7.74	490	-0.03	2000	
Zn	66	2	He	-0.130	-6.481	-32.63	1027	-0.01	2000	
Al	27	2	He	-0.272	-13.622	-102.65	843	-0.03	2000	
B	11	1	No Gas	-0.701	-35.066	-15.68	6093	-0.01	2000	
Al	27	1	No Gas	-0.287	-14.342	-23.00	27247	0.00	2000	
Si	28	1	No Gas	263.083	13154.162	2.17	1683298	0.02	2000	
Ag	107	1	No Gas	-0.050	-2.501	-5.60	290	-0.02	2000	
Cd	111	1	No Gas	-0.022	-1.115	-18.74	26	-0.08	2000	
Sr	88	1	No Gas	6.573	328.666	2.01	232428	0.00	2000	
Mo	95	1	No Gas	-0.001	-0.049	-1326.94	277	0.00	2000	
Sn	118	1	No Gas	0.017	0.867	19.11	3927	0.00	2000	
Sb	121	1	No Gas	-0.024	-1.203	-6.68	570	0.00	2000	
Ba	137	1	No Gas	12.359	617.971	1.46	82864	0.01	2000	
Tl	205	1	No Gas	-0.023	-1.135	-5.20	1130	0.00	2000	
Tl	203	1	No Gas	-0.021	-1.057	-3.98	497	0.00	2000	
Pb	208	1	No Gas	-0.025	-1.229	-7.71	2783	0.00	2000	
U	238	1	No Gas	-0.023	-1.147	-4.76	833	0.00	2000	
Ca	43	2	He	466.175	23308.775	8.95	833	55.94	200000	
Sb	121	2	He	-0.022	-1.090	-27.36	270	-0.01	2000	
Ti	47	2	He	-0.018	-0.885	-186.54	3	-0.53	2000	
Cu	63	1	No Gas	-0.161	-8.065	-7.07	1420	-0.01	2000	
Ca	44	1	No Gas	434.406	21720.289	2.64	212987	0.20	200000	
Zn	66	1	No Gas	0.019	0.935	304.36	3040	0.00	2000	
Se	82	1	No Gas	-0.254	-12.684	-104.19	210	-0.12	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	573136	0.10	622488	92.07	70	120	
Ge	72	2	He	623783	0.67	646115	96.54	70	120	
Ge	72	1	No Gas	2169199	0.23	2248671	96.47	70	120	

Sample Report

In	115	1	No Gas	3103279	0.84	3171445	97.85	70	120	
Bi	209	1	No Gas	3401262	0.65	3428605	99.20	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:36:56-05:00
Sample Type	Sample
Dilution	10
Comment	TW B 214140
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	2.106	21.056	1.43	48796	0.00	2000	
Be	9	1	No Gas	96.633	966.327	2.02	199330	0.05	2000	
V	51	2	He	98.438	984.376	1.61	452860	0.02	2000	
Cr	52	2	He	99.158	991.578	1.87	514294	0.02	2000	
Fe	56	2	He	13181.863	131818.633	1.82	67016659	0.02	200000	
Se	78	2	He	99.068	990.678	2.63	7957	1.25	2000	
As	75	2	He	98.629	986.285	1.22	81609	0.12	2000	
Ca	44	2	He	12134.498	121344.981	2.05	363254	3.34	200000	
Na	23	2	He	24609.555	246095.548	1.73	17005488	0.14	200000	
Mg	24	2	He	10874.577	108745.775	2.01	4721709	0.23	200000	
K	39	2	He	10404.260	104042.603	1.55	5809086	0.18	200000	
Mn	55	2	He	148.767	1487.666	0.94	620541	0.02	2000	
Co	59	2	He	97.143	971.432	1.94	799052	0.01	2000	
Ni	60	2	He	97.717	977.169	2.50	202557	0.05	2000	
Cu	63	2	He	98.446	984.456	1.77	545823	0.02	2000	
Zn	66	2	He	98.864	988.638	2.22	104432	0.09	2000	
Al	27	2	He	97.061	970.614	0.90	29114	0.33	2000	
B	11	1	No Gas	2.101	21.014	6.97	9135	0.02	2000	
Al	27	1	No Gas	97.124	971.236	1.05	1084188	0.01	2000	
Si	28	1	No Gas	1326.126	13261.263	1.66	7558992	0.02	2000	
Ag	107	1	No Gas	100.668	1006.676	2.19	1797176	0.01	2000	
Cd	111	1	No Gas	98.014	980.139	1.38	342857	0.03	2000	
Sr	88	1	No Gas	31.926	319.265	2.13	1080325	0.00	2000	
Mo	95	1	No Gas	96.419	964.187	1.80	647998	0.01	2000	
Sn	118	1	No Gas	0.041	0.410	33.07	4081	0.00	2000	
Sb	121	1	No Gas	94.618	946.185	0.58	1505495	0.01	2000	
Ba	137	1	No Gas	156.167	1561.671	1.56	1002427	0.02	2000	
Tl	205	1	No Gas	110.439	1104.388	0.38	4242608	0.00	2000	
Tl	203	1	No Gas	110.787	1107.869	0.36	1809948	0.01	2000	
Pb	208	1	No Gas	96.919	969.189	0.50	5941229	0.00	2000	
U	238	1	No Gas	0.014	0.141	22.65	3321	0.00	2000	
Ca	43	2	He	11826.670	118266.697	4.39	20489	57.72	200000	
Sb	121	2	He	95.133	951.333	2.08	709254	0.01	2000	
Ti	47	2	He	97.088	970.876	2.24	16734	0.58	2000	
Cu	63	1	No Gas	96.347	963.472	1.45	1089070	0.01	2000	
Ca	44	1	No Gas	12161.124	121611.235	1.62	5278027	0.23	200000	
Zn	66	1	No Gas	98.676	986.763	1.84	290757	0.03	2000	
Se	82	1	No Gas	97.556	975.561	0.37	19244	0.51	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	555383	0.09	622488	89.22	70	120	
Ge	72	2	He	615812	0.74	646115	95.31	70	120	
Ge	72	1	No Gas	2119899	0.54	2248671	94.27	70	120	

Sample Report

In	115	1	No Gas	2997799	0.70	3171445	94.52	70	120	
Bi	209	1	No Gas	3231900	1.02	3428605	94.26	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-09
Data File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:39:20-05:00
Sample Type	Sample
Dilution	20
Comment	TW B 214140
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	3.224	64.487	2.23	58971	0.01	2000	
Be	9	1	No Gas	0.015	0.299	80.21	102	0.01	2000	
V	51	2	He	-0.181	-3.614	-0.60	2020	-0.01	2000	
Cr	52	2	He	30.945	618.907	2.40	167181	0.02	2000	
Fe	56	2	He	1611.872	32237.437	1.40	8376103	0.02	200000	
Se	78	2	He	0.020	0.390	515.14	104	0.02	2000	
As	75	2	He	0.316	6.323	17.15	506	0.06	2000	
Ca	44	2	He	4227.062	84541.243	1.42	129457	3.27	200000	
Na	23	2	He	23258.647	465172.941	1.94	16391459	0.14	200000	
Mg	24	2	He	2732.619	54652.378	1.94	1212356	0.23	200000	
K	39	2	He	99.304	1986.076	2.34	118824	0.08	200000	
Mn	55	2	He	71.079	1421.588	1.41	302763	0.02	2000	
Co	59	2	He	1.103	22.061	3.94	9594	0.01	2000	
Ni	60	2	He	44.350	886.997	1.96	93969	0.05	2000	
Cu	63	2	He	1.259	25.175	3.75	8443	0.01	2000	
Zn	66	2	He	0.149	2.973	63.53	1330	0.01	2000	
Al	27	2	He	-0.202	-4.035	-118.38	870	-0.02	2000	
B	11	1	No Gas	1.041	20.820	12.83	8116	0.01	2000	
Al	27	1	No Gas	0.088	1.751	72.49	31493	0.00	2000	
Si	28	1	No Gas	1041.586	20831.725	1.80	6132249	0.02	2000	
Ag	107	1	No Gas	-0.044	-0.873	-7.78	403	-0.01	2000	
Cd	111	1	No Gas	-0.020	-0.392	-9.05	36	-0.05	2000	
Sr	88	1	No Gas	75.042	1500.834	2.35	2596625	0.00	2000	
Mo	95	1	No Gas	0.364	7.278	7.43	2784	0.01	2000	
Sn	118	1	No Gas	0.034	0.670	83.86	4087	0.00	2000	
Sb	121	1	No Gas	0.165	3.303	25.50	3661	0.00	2000	
Ba	137	1	No Gas	18.774	375.473	2.00	124095	0.02	2000	
Tl	205	1	No Gas	-0.022	-0.438	-23.98	1133	0.00	2000	
Tl	203	1	No Gas	-0.019	-0.380	-45.94	520	0.00	2000	
Pb	208	1	No Gas	-0.018	-0.357	-25.34	3137	0.00	2000	
U	238	1	No Gas	-0.014	-0.277	-12.98	1450	0.00	2000	
Ca	43	2	He	4426.465	88529.297	0.54	7829	56.54	200000	
Sb	121	2	He	0.108	2.158	13.50	1257	0.01	2000	
Ti	47	2	He	0.077	1.538	127.60	20	0.38	2000	
Cu	63	1	No Gas	1.436	28.718	1.11	19895	0.01	2000	
Ca	44	1	No Gas	4137.336	82746.716	2.05	1856380	0.22	200000	
Zn	66	1	No Gas	0.235	4.706	26.96	3697	0.01	2000	
Se	82	1	No Gas	-0.056	-1.113	-398.07	250	-0.02	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	569659	0.19	622488	91.51	70	120	
Ge	72	2	He	627845	0.38	646115	97.17	70	120	
Ge	72	1	No Gas	2175358	0.46	2248671	96.74	70	120	

Sample Report

In	115	1	No Gas	3070064	0.70	3171445	96.80	70	120	
Bi	209	1	No Gas	3318008	0.57	3428605	96.77	70	120	

Sample Report

Sample Table

Sample Name	HS24060985-10
Data File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:41:45-05:00
Sample Type	Sample
Dilution	20
Comment	TW B 214140
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	3.504	70.085	5.17	61314	0.01	2000	
Be	9	1	No Gas	0.001	0.013	1335.51	72	0.00	2000	
V	51	2	He	-0.174	-3.471	-10.60	2075	-0.01	2000	
Cr	52	2	He	33.831	676.622	1.82	184211	0.02	2000	
Fe	56	2	He	1729.273	34585.453	1.67	9078972	0.02	200000	
Se	78	2	He	-0.019	-0.375	-1600.38	102	-0.02	2000	
As	75	2	He	0.306	6.116	3.78	502	0.06	2000	
Ca	44	2	He	4508.358	90167.164	1.97	139477	3.23	200000	
Na	23	2	He	24462.554	489251.077	1.16	17416704	0.14	200000	
Mg	24	2	He	2875.510	57510.200	1.58	1288992	0.22	200000	
K	39	2	He	102.395	2047.893	2.56	121834	0.08	200000	
Mn	55	2	He	76.009	1520.173	1.46	327103	0.02	2000	
Co	59	2	He	1.111	22.211	2.32	9757	0.01	2000	
Ni	60	2	He	47.987	959.749	2.99	102708	0.05	2000	
Cu	63	2	He	1.228	24.567	5.30	8359	0.01	2000	
Zn	66	2	He	0.198	3.951	38.79	1397	0.01	2000	
Al	27	2	He	-0.066	-1.323	-456.28	920	-0.01	2000	
B	11	1	No Gas	1.341	26.812	21.49	8486	0.02	2000	
Al	27	1	No Gas	0.336	6.716	9.89	34132	0.00	2000	
Si	28	1	No Gas	1118.688	22373.755	2.01	6547118	0.02	2000	
Ag	107	1	No Gas	-0.047	-0.940	-5.90	343	-0.01	2000	
Cd	111	1	No Gas	-0.016	-0.314	-63.82	50	-0.03	2000	
Sr	88	1	No Gas	79.764	1595.275	1.93	2769257	0.00	2000	
Mo	95	1	No Gas	0.352	7.037	7.28	2710	0.01	2000	
Sn	118	1	No Gas	0.042	0.844	18.52	4207	0.00	2000	
Sb	121	1	No Gas	0.025	0.500	31.18	1367	0.00	2000	
Ba	137	1	No Gas	20.039	400.779	3.76	132858	0.02	2000	
Tl	205	1	No Gas	-0.028	-0.569	-5.77	883	0.00	2000	
Tl	203	1	No Gas	-0.027	-0.544	-13.19	387	-0.01	2000	
Pb	208	1	No Gas	-0.018	-0.358	-17.72	3164	0.00	2000	
U	238	1	No Gas	-0.016	-0.321	-8.67	1307	0.00	2000	
Ca	43	2	He	4500.123	90002.465	1.98	8042	55.95	200000	
Sb	121	2	He	0.018	0.368	68.80	583	0.00	2000	
Ti	47	2	He	0.019	0.388	288.73	10	0.19	2000	
Cu	63	1	No Gas	1.383	27.655	4.24	19207	0.01	2000	
Ca	44	1	No Gas	4435.649	88712.974	2.26	1981026	0.22	200000	
Zn	66	1	No Gas	0.280	5.608	13.82	3817	0.01	2000	
Se	82	1	No Gas	-0.119	-2.380	-154.81	237	-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	570716	0.38	622488	91.68	70	120	
Ge	72	2	He	634454	0.53	646115	98.20	70	120	
Ge	72	1	No Gas	2167215	0.53	2248671	96.38	70	120	

Sample Report

In	115	1	No Gas	3080184	0.14	3171445	97.12	70	120	
Bi	209	1	No Gas	3347526	0.71	3428605	97.64	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:56:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.939	2.116	778879	1.45	100	99.9	90	110	
Be	9	1	No Gas	100.772	2.498	200055	2.03	100	100.8	90	110	
V	51	2	He	100.568	0.715	473687	0.96	100	100.6	90	110	
Cr	52	2	He	101.488	0.943	538868	0.68	100	101.5	90	110	
Fe	56	2	He	10003.900	1.574	52085688	1.73	10000	100.0	90	110	
Se	78	2	He	99.116	3.042	8153	3.72	100	99.1	90	110	
As	75	2	He	99.864	0.850	84612	1.64	100	99.9	90	110	
Ca	44	2	He	10019.720	1.911	307265	2.13	10000	100.2	90	110	
Na	23	2	He	10227.837	1.102	7293241	1.57	10000	102.3	90	110	
Mg	24	2	He	10051.885	1.192	4469538	1.51	10000	100.5	90	110	
K	39	2	He	10054.315	0.986	5750488	1.28	10000	100.5	90	110	
Mn	55	2	He	101.680	0.663	434586	1.18	100	101.7	90	110	
Co	59	2	He	100.523	1.096	846676	1.26	100	100.5	90	110	
Ni	60	2	He	101.766	1.705	215992	1.60	100	101.8	90	110	
Cu	63	2	He	101.473	1.544	576062	1.65	100	101.5	90	110	
Zn	66	2	He	100.903	0.666	109117	0.20	100	100.9	90	110	
Al	27	2	He	101.305	2.964	31078	3.66	100	101.3	90	110	
B	11	1	No Gas	481.970	2.077	541109	1.58	500	96.4	90	110	
Al	27	1	No Gas	99.362	2.144	1107410	1.56	100	99.4	90	110	
Si	28	1	No Gas	486.953	2.706	2887645	2.00	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.532	1.007	1819533	1.69	100	100.5	90	110	
Cd	111	1	No Gas	100.751	0.651	357277	1.46	100	100.8	90	110	
Sr	88	1	No Gas	100.439	0.908	3439840	1.73	100	100.4	90	110	
Mo	95	1	No Gas	98.782	0.925	673020	1.32	100	98.8	90	110	
Sn	118	1	No Gas	100.348	1.300	1235468	1.96	100	100.3	90	110	
Sb	121	1	No Gas	103.349	2.132	1642737	1.62	100	103.3	90	110	
Ba	137	1	No Gas	99.034	1.919	644747	2.34	100	99.0	90	110	
Tl	205	1	No Gas	105.657	0.936	4211037	2.06	100	105.7	90	110	
Tl	203	1	No Gas	105.776	0.966	1792783	1.90	100	105.8	90	110	
Pb	208	1	No Gas	100.111	0.669	6366276	1.79	100	100.1	90	110	
U	238	1	No Gas	100.370	1.050	7110137	2.12	100	100.4	90	110	
Ca	43	2	He	10143.624	4.382	17999	4.81	10000	101.4	90	110	
Sb	121	2	He	100.171	1.125	764732	1.89	100	100.2	90	110	
Ti	47	2	He	102.784	2.496	18139	1.96	100	102.8	90	110	
Cu	63	1	No Gas	100.805	2.413	1138165	1.86	100	100.8	90	110	
Se	82	1	No Gas	105.499	3.501	20769	3.00	100	105.5	90	110	
Zr	90	1	No Gas	89.133	0.674	1897721	1.46	100	89.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	89.033	1.270	782039	1.91	100	89.0	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	534563	0.68	622488	85.88	70	120	
Ge	72	2	He	630539	0.83	646115	97.59	70	120	
Ge	72	1	No Gas	2118056	0.55	2248671	94.19	70	120	
In	115	1	No Gas	3038963	0.92	3171445	95.82	70	120	
Bi	209	1	No Gas	3352682	1.13	3428605	97.79	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:58:34-05:00
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	-0.056	-112.7	33469	1.7	0.5	
Be	9	1	No Gas	0.009	15.3	92	3.1	0.5	
V	51	2	He	-0.313	-5.4	1445	6.2	2.5	
Cr	52	2	He	-0.325	-3.5	3551	2.2	2.5	
Fe	56	2	He	-2.078	-5.9	13407	5.2	100	
Se	78	2	He	-0.163	-78.4	92	12.1	2	
As	75	2	He	-0.091	-7.5	168	2.3	2.5	
Ca	44	2	He	-8.187	-6.5	437	2.6	100	
Na	23	2	He	-46.658	-4.8	64789	2.9	100	
Mg	24	2	He	-5.259	-1.3	1227	2.9	100	
K	39	2	He	-4.852	-47.7	61981	1.3	100	
Mn	55	2	He	-0.079	-6.5	600	4.4	2.5	
Co	59	2	He	-0.023	-20.9	160	27.2	2.5	
Ni	60	2	He	-0.102	-6.6	220	7.9	2.5	
Cu	63	2	He	-0.166	-4.0	423	8.9	2	
Zn	66	2	He	-0.125	-59.1	1070	7.1	2.5	
Al	27	2	He	-0.081	-190.1	933	5.9	5	
B	11	1	No Gas	1.822	35.8	9218	8.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.044	-270.1	30597	3.7	5	
Si	28	1	No Gas	-2.201	-23.8	177100	1.1	10	
Ag	107	1	No Gas	-0.041	-22.5	473	36.4	2.5	
Cd	111	1	No Gas	-0.023	-7.4	23	28.4	1	
Sr	88	1	No Gas	-0.057	-1.2	737	3.1	2.5	
Mo	95	1	No Gas	0.027	48.5	483	19.6	2.5	
Sn	118	1	No Gas	0.018	76.6	4017	4.5	5	
Sb	121	1	No Gas	-0.015	-62.9	727	21.3	2.5	
Ba	137	1	No Gas	-0.075	-7.1	300	12.0	2.5	
Tl	205	1	No Gas	0.062	89.2	4628	49.3	1	
Tl	203	1	No Gas	0.071	71.0	2114	41.9	1	
Pb	208	1	No Gas	-0.032	-12.6	2347	11.5	2.5	
U	238	1	No Gas	-0.018	-1.2	1207	1.7	2.5	
Ca	43	2	He	-1.941	-325.2	13	86.6	100	
Sb	121	2	He	-0.007	-47.9	393	8.2	2.5	
Ti	47	2	He	-0.018	-178.0	3	173.2	2.5	
Cu	63	1	No Gas	-0.192	-5.7	1090	12.0	2.5	
Se	82	1	No Gas	-0.013	-2277.9	263	21.6	2	
Zr	90	1	No Gas	0.066	5.1	3030	2.4	2.5	
Zr	90	2	He	0.052	18.6	1757	4.6	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	581046	0.23	622488	93.34	70	120	
Ge	72	2	He	646926	1.35	646115	100.13	70	120	
Ge	72	1	No Gas	2216860	0.76	2248671	98.59	70	120	

Continuing Calibration Blank (CCB) Report

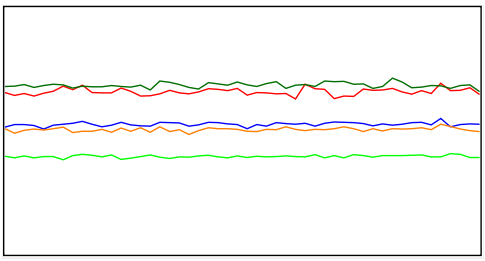
In	115	1	No Gas	3163243	0.27	3171445	99.74	70	120	
Bi	209	1	No Gas	3464927	0.60	3428605	101.06	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq. Date-Time	7/1/2024 9:12:41 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	5000	3295	32953.17		
24	50000	19821	198214.21		
59	50000	26356	263562.07		
115	100000	50547	505469.14		
208	50000	34263	342629.87		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.107	5.000	
24	1.333	5.000	
59	1.453	5.000	
115	1.542	5.000	
208	1.503	5.000	

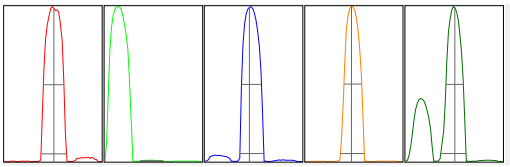
Mass	Background	Background (Required)	Background (Flag)
9	1.300		
24	2.300		
59	0.900		
115	1.300		
208	1.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.258 %
Doubly Charged	70 / 140 0.763 %

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	3293.40	9.05	8.90 - 9.10	
24	20139.47	23.90	23.90 - 24.10	
59	26734.75	58.90	58.90 - 59.10	
115	51547.69	114.95	114.90 - 115.10	
208	33993.10	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779		
24	0.64	0.746		
59	0.61	0.739		
115	0.54	0.727		
208	0.53	0.772		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

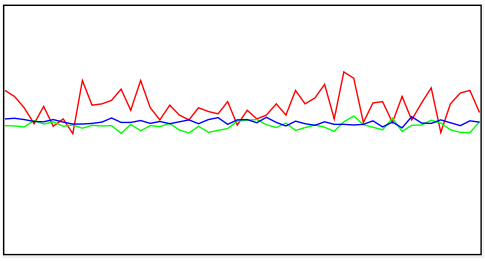
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	119	1194.05		
24	2000	1031	10311.34		
59	20000	10635	106347.51		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

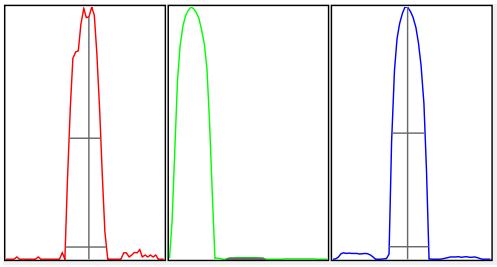
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.778	5.000	Fail
24	3.241	5.000	
59	1.933	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.200		
24	1.000		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.720 %
Doubly Charged	70 / 140 0.727 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	114.51	9.10	8.90 - 9.10	
24	1011.40	23.95	23.90 - 24.10	
59	10726.53	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.770		
24	0.66	0.744		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.740		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	214230	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	28 Jun 2024 07:30 AM	**Original Factor:**	1
End Date:	28 Jun 2024 10:30 AM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060985-01	B	Groundwater		10	10	1	1	
HS24060985-01MS	A			10	10	1	1	
HS24060985-01MSD	A			10	10	1	1	
HS24060985-02	B	Groundwater		10	10	1	1	
HS24060985-04	B	Groundwater		10	10	1	1	
HS24060985-09	B	Groundwater		10	10	1	1	
HS24060985-10	B	Groundwater		10	10	1	1	
LCS-214230	A			10	10	1	1	
MBLK-214230	A			10	10	1	1	

Prep Batch Report

Batch ID:	214230	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	28 Jun 2024 07:30 AM	**Original Factor:**	1
End Date:	28 Jun 2024 10:30 AM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214230	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	28 Jun 2024 07:30 AM	**Original Factor:**	1
End Date:	28 Jun 2024 10:30 AM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

Prep Batch Report

Batch ID: 214140
Prep Code: 3010A
Start Date: 26 Jun 2024 01:00 PM
End Date: 26 Jun 2024 05:00 PM
Technician: Dominique Mitchel

Init Sample Weight / Volume: 10
Final Sample Volume: 10
Original Factor: 1
Prep Unit Factor: 1
Prep Unit: mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060985-01	B	Groundwater	<2	10	10	1	1	DOD
HS24060985-02	B	Groundwater	<2	10	10	1	1	
HS24060985-04	B	Groundwater	<2	10	10	1	1	
HS24060985-09	B	Groundwater	<2	10	10	1	1	
HS24060985-10	B	Groundwater	<2	10	10	1	1	
HS24061196-01	C	Water	<2	10	10	1	1	
HS24061196-02	C	Water	<2	10	10	1	1	
HS24061196-05	C	Water	<2	10	10	1	1	
HS24061196-06	C	Water	<2	10	10	1	1	
HS24061196-08	C	Water	<2	10	10	1	1	
HS24061196-09	C	Water	<2	10	10	1	1	
HS24061196-10	C	Water	<2	10	10	1	1	
HS24061196-10MS	A		<2	10	10	1	1	
HS24061196-10MSD	A		<2	10	10	1	1	
HS24061196-10PDS	A		<2	10	10	1	1	
HS24061196-10SD	A		<2	10	10	1	1	
HS24061218-02	C	Water	<2	10	10	1	1	
HS24061218-03	C	Water	<2	10	10	1	1	
HS24061218-05	C	Water	<2	10	10	1	1	
HS24061218-07	C	Water	<2	10	10	1	1	
LCS-214140	A			10	10	1	1	
MBLK-214140	A			10	10	1	1	

Prep Batch Report

Batch ID:	214140	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	26 Jun 2024 01:00 PM	**Original Factor:**	1
End Date:	26 Jun 2024 05:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB10
3010A	Thermometer ID	942333
3010A	Thermometer Location	A3
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

HS24060985 ALS Middletown Level IV
Package AHH-132

ALS WO# HS24060985

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Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH132|HS24060985
Workorder 3366028
Report ID 334060 on 7/1/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

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Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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2524062505.D 1235 ICAL2 440

2524062506.D 1236 ICAL3 455
2524062507.D 1237 ICAL4 468
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2524062509.D 1239 ICAL6 494
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2524062532.D 1801 CCV 515
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Certificate of Analysis

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Analytical Results Report For **ALS Environmental-Houston**

Project AHH132|HS24060985
Workorder 3366028
Report ID 334060 on 7/1/2024 (Revised report. See Project Notations Section.)

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Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project AHH132|HS24060985
Workorder 3366028

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366028001	HS24060985-01	Ground Water	06/14/2024 07:35	06/26/2024 09:36	CBC	Collected By Client
3366028002	HS24060985-02	Ground Water	06/14/2024 07:35	06/26/2024 09:36	CBC	Collected By Client
3366028003	HS24060985-03	Ground Water	06/14/2024 06:50	06/26/2024 09:36	CBC	Collected By Client
3366028004	HS24060985-04	Ground Water	06/14/2024 08:20	06/26/2024 09:36	CBC	Collected By Client
3366028005	HS24060985-05	Ground Water	06/14/2024 09:00	06/26/2024 09:36	CBC	Collected By Client
3366028006	HS24060985-06	Ground Water	06/14/2024 09:45	06/26/2024 09:36	CBC	Collected By Client
3366028007	HS24060985-08	Ground Water	06/14/2024 11:15	06/26/2024 09:36	CBC	Collected By Client
3366028008	HS24060985-09	Ground Water	06/14/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366028009	HS24060985-10	Ground Water	06/14/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366028010	HS24060985-11	Ground Water	06/14/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project AHH132|HS24060985
Workorder 3366028

Project Notations

P1 This certificate of analysis was reissued to generate a level IV deliverable.

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	19.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	18.8	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Chloromethane	0.43J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	4.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.35J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	63.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.57J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1470	ug/L	10.0	7.5	3.3	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.34J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	4.5	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	2.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	12.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,2-Dichloroethane	78.0	ug/L	1.0	0.75	0.33	SW846 8260D	#
Acetone	3.2J	ug/L	5.0	3.8	1.6	SW846 8260D	#
Benzene	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	0.50J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	51.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.88J	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.99J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	668	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	2.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	1.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Detected Results Summary

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichlorofluoromethane	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:30	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Chloromethane	0.44J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
cis-1,2-Dichloroethene	1.4	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:30	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:30	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-01	Collected	06/14/2024 07:35
Lab Sample ID	3366028001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Trichloroethene	19.1	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:30	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 14:30	
4-Bromofluorobenzene	460-00-4	93.1%	85 – 114	06/27/2024 14:30	
Dibromofluoromethane	1868-53-7	99.3%	80 – 119	06/27/2024 14:30	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 14:30	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:49	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Chloromethane	0.44J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
cis-1,2-Dichloroethene	1.3	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:49	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:49	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-02	Collected	06/14/2024 07:35
Lab Sample ID	3366028002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Trichloroethene	18.8	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:49	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/27/2024 14:49	
4-Bromofluorobenzene	460-00-4	95.7%	85 – 114	06/27/2024 14:49	
Dibromofluoromethane	1868-53-7	102%	80 – 119	06/27/2024 14:49	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 14:49	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:09	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Chloromethane	0.43J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 15:09	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 15:09	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-03	Collected	06/14/2024 06:50
Lab Sample ID	3366028003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Trichloroethene	1.1	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.4%	81 – 118	06/27/2024 15:09	
4-Bromofluorobenzene	460-00-4	92.4%	85 – 114	06/27/2024 15:09	
Dibromofluoromethane	1868-53-7	97.2%	80 – 119	06/27/2024 15:09	
Toluene-d8	2037-26-5	96.5%	89 – 112	06/27/2024 15:09	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloroethane	1.4	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloroethene	4.4	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 15:29	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloroform	1.5	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Chloromethane	0.35J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
cis-1,2-Dichloroethene	63.8	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 15:29	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 15:29	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-04	Collected	06/14/2024 08:20
Lab Sample ID	3366028004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
trans-1,2-Dichloroethene	0.57J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Trichloroethene	1470	P1	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/28/2024 17:32	TMP	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 15:29	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/28/2024 17:32	
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 15:29	
4-Bromofluorobenzene	460-00-4	99.7%	85 – 114	06/28/2024 17:32	
4-Bromofluorobenzene	460-00-4	93.5%	85 – 114	06/27/2024 15:29	
Dibromofluoromethane	1868-53-7	90.7%	80 – 119	06/28/2024 17:32	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/27/2024 15:29	
Toluene-d8	2037-26-5	98.7%	89 – 112	06/28/2024 17:32	
Toluene-d8	2037-26-5	97.5%	89 – 112	06/27/2024 15:29	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:26	TMP	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
cis-1,2-Dichloroethene	0.34J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 12:26	TMP	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 12:26	TMP	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-05	Collected	06/14/2024 09:00
Lab Sample ID	3366028005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Trichloroethene	4.5	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:26	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	81 – 118	06/28/2024 12:26	
4-Bromofluorobenzene	460-00-4	103%	85 – 114	06/28/2024 12:26	
Dibromofluoromethane	1868-53-7	97.5%	80 – 119	06/28/2024 12:26	
Toluene-d8	2037-26-5	105%	89 – 112	06/28/2024 12:26	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:09	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 16:09	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 16:09	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-06	Collected	06/14/2024 09:45
Lab Sample ID	3366028006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Trichloroethene	1.1	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 16:09	
4-Bromofluorobenzene	460-00-4	104%	85 – 114	06/27/2024 16:09	
Dibromofluoromethane	1868-53-7	98.8%	80 – 119	06/27/2024 16:09	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 16:09	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloroethane	2.2	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloroethene	12.7	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichloroethane	78.0	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
Acetone	3.2J	J,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 16:29	ILY	A
Benzene	0.38J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloroform	0.50J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Chloromethane	0.38J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
cis-1,2-Dichloroethene	51.8	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 16:29	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 16:29	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-08	Collected	06/14/2024 11:15
Lab Sample ID	3366028007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Tetrachloroethene	0.88J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
trans-1,2-Dichloroethene	0.99J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Trichloroethene	668	P1	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/28/2024 17:52	TMP	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A
Vinyl Chloride	2.2	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 16:29	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	112%	81 – 118	06/27/2024 16:29	
1,2-Dichloroethane-d4	17060-07-0	113%	81 – 118	06/28/2024 17:52	
4-Bromofluorobenzene	460-00-4	93.5%	85 – 114	06/27/2024 16:29	
4-Bromofluorobenzene	460-00-4	104%	85 – 114	06/28/2024 17:52	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/27/2024 16:29	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/28/2024 17:52	
Toluene-d8	2037-26-5	98.6%	89 – 112	06/27/2024 16:29	
Toluene-d8	2037-26-5	105%	89 – 112	06/28/2024 17:52	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-09	Collected	06/14/2024 12:00
Lab Sample ID	3366028008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 12:46	TMP	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 12:46	TMP	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 12:46	TMP	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-09	Collected	06/14/2024 12:00
Lab Sample ID	3366028008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 12:46	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/28/2024 12:46	
4-Bromofluorobenzene	460-00-4	92.8%	85 – 114	06/28/2024 12:46	
Dibromofluoromethane	1868-53-7	93%	80 – 119	06/28/2024 12:46	
Toluene-d8	2037-26-5	98.3%	89 – 112	06/28/2024 12:46	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 17:09	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 17:09	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 17:09	ILY	A

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Workorder 3366028

Results

Client Sample ID	HS24060985-10	Collected	06/14/2024 12:00
Lab Sample ID	3366028009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Trichloroethene	1.2	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 17:09	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 17:09	
4-Bromofluorobenzene	460-00-4	95.2%	85 – 114	06/27/2024 17:09	
Dibromofluoromethane	1868-53-7	102%	80 – 119	06/27/2024 17:09	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 17:09	

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Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 12:50	ILY	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 12:50	ILY	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 12:50	ILY	A

Project AHH132|HS24060985
Workorder 3366028

Results

Client Sample ID	HS24060985-11	Collected	06/14/2024 00:00
Lab Sample ID	3366028010	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Trichlorofluoromethane	2.7	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 12:50	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.3%	81 – 118	06/27/2024 12:50	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/27/2024 12:50	
Dibromofluoromethane	1868-53-7	97%	80 – 119	06/27/2024 12:50	
Toluene-d8	2037-26-5	103%	89 – 112	06/27/2024 12:50	

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Project AHH132|HS24060985
Workorder 3366028

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366028001	HS24060985-01	SW846 8260D	N/A	
3366028002	HS24060985-02	SW846 8260D	N/A	
3366028003	HS24060985-03	SW846 8260D	N/A	
3366028004	HS24060985-04	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366028005	HS24060985-05	SW846 8260D	N/A	
3366028006	HS24060985-06	SW846 8260D	N/A	
3366028007	HS24060985-08	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366028008	HS24060985-09	SW846 8260D	N/A	
3366028009	HS24060985-10	SW846 8260D	N/A	
3366028010	HS24060985-11	SW846 8260D	N/A	

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Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366028010	3366028006	3366028001	3366028007
3366028002	3366028009	3366028003	3366028004

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U

Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers

Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		

Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

QC Batch

QC Batch	1236144	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366028005 3366028008 3366028004 3366028007

Method Blank 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	26.80	30	89.4	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	92	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.10		20	95.6	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.50		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.70		20	104	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.80		20	104	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.50		20	108	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.60		20	103	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.50		20	97.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.20		20	106	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.10		20	121	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19		20	94.8	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.90		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.5	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.80		20	104	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.10		20	110	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.60		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.80		20	109	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	107	60 - 139		
2-Butanone	78-93-3	LCS	104		100	104	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	67 - 130		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Acetone	67-64-1	LCS	108		100	108	39 - 160		
Benzene	71-43-2	LCS	19.90		20	99.3	79 - 120		
Bromobenzene	108-86-1	LCS	20.10		20	100	80 - 120		
Bromochloromethane	74-97-5	LCS	21.20		20	106	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.80		20	94.2	79 - 125		
Bromoform	75-25-2	LCS	18.10		20	90.3	66 - 130		
Bromomethane	74-83-9	LCS	20		20	100	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.10		20	106	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87.2	72 - 136		
Chlorobenzene	108-90-7	LCS	20.60		20	103	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.4	74 - 126		
Chloroethane	75-00-3	LCS	20.30		20	102	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	20.10		20	100	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.10		20	106	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.90		20	94.3	75 - 124		
Dibromomethane	74-95-3	LCS	20.20		20	101	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.10		20	101	32 - 152		
Ethylbenzene	100-41-4	LCS	19.10		20	95.7	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.70		20	113	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.20		20	121	72 - 131		
Methylene Chloride	75-09-2	LCS	21.40		20	107	74 - 124		
mp-Xylene	108383/106423	LCS	38.90		40	97.2	80 - 121		
Naphthalene	91-20-3	LCS	19.90		20	99.6	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.30		20	107	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.10		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.30		20	96.4	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.40		20	112	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.80		20	109	77 - 127		
sec-Butylbenzene	135-98-8	LCS	22.90		20	115	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.20		20	101	74 - 129		
Toluene	108-88-3	LCS	19.60		20	98.2	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.50		20	108	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.60		20	97.9	73 - 127		
Trichloroethene	79-01-6	LCS	20.20		20	101	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.30		20	96.5	65 - 141		
Vinyl Chloride	75-01-4	LCS	19.70		20	98.7	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.40	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.20	30	97.3	85 - 114	

Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Dibromofluoromethane	1868-53-7	LCS	29.70	30	98.9	80 - 119	
Toluene-d8	2037-26-5	LCS	30.30	30	101	89 - 112	

Project AHH132|HS24060985
Workorder 3366028

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366028001	HS24060985-01	N/A	N/A	N/A		SW846 8260D	1235282
3366028002	HS24060985-02	N/A	N/A	N/A		SW846 8260D	1235282
3366028003	HS24060985-03	N/A	N/A	N/A		SW846 8260D	1235282
3366028004	HS24060985-04	N/A	N/A	N/A		SW846 8260D	1236144
		N/A	N/A	N/A		SW846 8260D	1235282
3366028005	HS24060985-05	N/A	N/A	N/A		SW846 8260D	1236144
3366028006	HS24060985-06	N/A	N/A	N/A		SW846 8260D	1235282
3366028007	HS24060985-08	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1236144
3366028008	HS24060985-09	N/A	N/A	N/A		SW846 8260D	1236144
3366028009	HS24060985-10	N/A	N/A	N/A		SW846 8260D	1235282
3366028010	HS24060985-11	N/A	N/A	N/A		SW846 8260D	1235282

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: **Texas**

COC ID: **26140**

3366028
Logged By: MJE
PM: SSL

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

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:	HS24060985
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060985-01**	**18CPTMW10DW_061424**	**Groundwater**	**14 Jun 2024 07:35**
	Custom selection	1-G|HCL MJE 6/26/24		01 Jul 2024
2.	**HS24060985-02**	**18CPTMW10DW_061424_a**	**Groundwater**	**14 Jun 2024 07:35**
	Custom selection	2-G|HCL		01 Jul 2024
3.	**HS24060985-03**	**18CPTMW10SW_061424**	**Groundwater**	**14 Jun 2024 06:50**
	Custom selection			01 Jul 2024
4.	**HS24060985-04**	**MW9_061424** 2-G|HCL	**Groundwater**	**14 Jun 2024 08:20**
	Custom selection			01 Jul 2024
5.	**HS24060985-05**	**MW10_-061424**	**Groundwater**	**14 Jun 2024 09:00**
	Custom selection			01 Jul 2024
6.	**HS24060985-06**	**18WW10_061424**	**Groundwater**	**14 Jun 2024 09:45**
	Custom selection			01 Jul 2024
7.	**HS24060985-08**	**MW16_061424**	**Groundwater**	**14 Jun 2024 11:15**
	Custom selection			01 Jul 2024
8.	**HS24060985-09**	**17WW08_061424**	**Groundwater**	**14 Jun 2024 12:00**
	Custom selection			01 Jul 2024
9.	**HS24060985-10**	**17WW08_061424_a**	**Groundwater**	**14 Jun 2024 12:00**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26140**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Custom selection			01 Jul 2024
10.	**HS24060985-11**	**Trip Blank**	**Water**	**14 Jun 2024 00:00**
	Custom selection			01 Jul 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

	MJE
Receipt Info Completed By:	
Cooler Custody Seal Intact	Y N (NA)
Sample Custody Seal Intact	Y N (NA)
Received on Ice	(Y) N NA
Cooler & Samples Intact	(Y) N
Correct Containers Provided	(Y) N
Sample Label/COC Agree	(Y) N
Adequate Sample Volumes	(Y) N
CR6 Samples Filtered	Y N (NA)
OP Samples Filtered	Y N (NA)
VOA Trip Blank	(Y) N NA
NI≤4 Days?	Y (N)
Rad Screen (uCi)	—
Courier/Tracking #:	773879234761
SDWA Compliance	Y (N)
PWSID	
WV Containers 0-6°C	Y N (NA)

*NaSampler, 6/C, 6/HCl-MJE 6/26/24

PM notified 1452724

Relinquished By: AM Date/Time: 6/25/24 18:00

Received By: Fedex Date/Time:

~~Cooler ID(s)~~: Fedex ~~Temperature(s)~~: 6/26/24 936

6/26/24 936

48 of 48

7/1/2024 6:50 AM

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 3366028

3366028001-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028002-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028002-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028003-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028003-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028004-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028004-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028005-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028005-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028006-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 3366028

3366028006-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028007-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028007-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028008-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028008-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028009-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028009-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028010-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366028010-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:47	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

Case Narrative

Case Narrative
AHH-132
(3366028)

Sample Management

This report contains the results of the analysis of ten (10) ground water samples collected on June 14, 2024. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALS - Middletown via courier on June 26, 2024. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Manual Integrations

If manual integrations were performed, they are indicated on the raw data quantification files for each method.

Volatile Organics by SW-846 Method 8260D

Sample Handling. Ten (10) ground water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations Initial calibrations were properly analyzed and met method criteria for all target analytes **Note:** The batch LCS also serves as a second source (ICV).

Continuing Calibration Verification. Continuing Calibration and closing standards were properly analyzed and met method criteria for target analytes.

Blanks. Target analytes were not detected in the method blanks.

Surrogates. Recoveries were within control limits.

Laboratory control samples. Target analytes were within control limits.

Internal Standards. One or more internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-01 | **Collected** 06/14/24 07:35 | **Received** 06/26/24 09:36 | **Matrix** GW

3366028001

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 14:30	23240627	2324062711
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 14:30	23240627	2324062711
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:30	23240627	2324062711
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:30	23240627	2324062711
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:30	23240627	2324062711
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:30	23240627	2324062711
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-01 | **Collected** 06/14/24 07:35 | **Received** 06/26/24 09:36 | **Matrix** GW

3366028001

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Chloromethane	0.44	J	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
cis-1,2-Dichloroethene	1.4		ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 14:30	23240627	2324062711
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 14:30	23240627	2324062711
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Trichloroethene	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:30	23240627	2324062711

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-02 | Collected: 06/14/24 07:35 | Received: 06/26/24 09:36 | Matrix: GW

3366028002

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 14:49	23240627	2324062712
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 14:49	23240627	2324062712
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:49	23240627	2324062712
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:49	23240627	2324062712
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:49	23240627	2324062712
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 14:49	23240627	2324062712
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-02

3366028002

Collected	Received	Matrix
06/14/24 07:35	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Chloromethane	0.44	J	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
cis-1,2-Dichloroethene	1.3		ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 14:49	23240627	2324062712
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 14:49	23240627	2324062712
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Trichloroethene	18.8		ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 14:49	23240627	2324062712

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-03 | Collected: 06/14/24 06:50 | Received: 06/26/24 09:36 | Matrix: GW

3366028003

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 15:09	23240627	2324062713
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 15:09	23240627	2324062713
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:09	23240627	2324062713
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:09	23240627	2324062713
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:09	23240627	2324062713
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:09	23240627	2324062713
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-03 | Collected: 06/14/24 06:50 | Received: 06/26/24 09:36 | Matrix: GW

3366028003

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Chloromethane	0.43	J	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 15:09	23240627	2324062713
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 15:09	23240627	2324062713
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Trichloroethene	1.1		ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:09	23240627	2324062713

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-04

3366028004

Collected	Received	Matrix
06/14/24 08:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1-Dichloroethane	1.4		ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1-Dichloroethene	4.4		ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 15:29	23240627	2324062714
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 15:29	23240627	2324062714
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:29	23240627	2324062714
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:29	23240627	2324062714
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:29	23240627	2324062714
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 15:29	23240627	2324062714
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-04 | Collected: 06/14/24 08:20 | Received: 06/26/24 09:36 | Matrix: GW

3366028004

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Chloroform	1.5		ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Chloromethane	0.35	J	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
cis-1,2-Dichloroethene	63.8		ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 15:29	23240627	2324062714
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 15:29	23240627	2324062714
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
trans-1,2-Dichloroethene	0.57	J	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 15:29	23240627	2324062714

Form 1 - Organic Analysis Data Sheet

Client	ALS Houston	Workorder	
Project	HS24060985 - AHH132	**3366028**	

Volatiles by EPA 8260D

HS24060985-04	Collected	Received	Matrix
3366028004x10	06/14/24 08:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	1470		ug/L	3.3	7.5	10.0	10	06/28/24 17:32	25240628	2524062823

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-05 | Collected: 06/14/24 09:00 | Received: 06/26/24 09:36 | Matrix: GW

3366028005

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 12:26	25240628	2524062807
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 12:26	25240628	2524062807
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:26	25240628	2524062807
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:26	25240628	2524062807
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:26	25240628	2524062807
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:26	25240628	2524062807
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-05 | Collected: 06/14/24 09:00 | Received: 06/26/24 09:36 | Matrix: GW

3366028005

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
cis-1,2-Dichloroethene	0.34	J	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 12:26	25240628	2524062807
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 12:26	25240628	2524062807
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Trichloroethene	4.5		ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:26	25240628	2524062807

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-06

	Collected	Received	Matrix
3366028006	06/14/24 09:45	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 16:09	23240627	2324062716
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 16:09	23240627	2324062716
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:09	23240627	2324062716
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:09	23240627	2324062716
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:09	23240627	2324062716
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:09	23240627	2324062716
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-06

3366028006

Collected	Received	Matrix
06/14/24 09:45	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 16:09	23240627	2324062716
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 16:09	23240627	2324062716
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Trichloroethene	1.1		ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:09	23240627	2324062716

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-08 | Collected: 06/14/24 11:15 | Received: 06/26/24 09:36 | Matrix: GW

3366028007

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1-Dichloroethane	2.2		ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1-Dichloroethene	12.7		ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 16:29	23240627	2324062717
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 16:29	23240627	2324062717
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2-Dichloroethane	78.0		ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:29	23240627	2324062717
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:29	23240627	2324062717
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 16:29	23240627	2324062717
Acetone	3.2	J	ug/L	1.6	3.8	5.0	1	06/27/24 16:29	23240627	2324062717
Benzene	0.38	J	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-08 | Collected: 06/14/24 11:15 | Received: 06/26/24 09:36 | Matrix: GW

3366028007

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Chloroform	0.50	J	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Chloromethane	0.38	J	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
cis-1,2-Dichloroethene	51.8		ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 16:29	23240627	2324062717
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 16:29	23240627	2324062717
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Tetrachloroethene	0.88	J	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
trans-1,2-Dichloroethene	0.99	J	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717
Vinyl Chloride	2.2		ug/L	0.33	0.75	1.0	1	06/27/24 16:29	23240627	2324062717

Form 1 - Organic Analysis Data Sheet

Client	ALS Houston	Workorder	
Project	HS24060985 - AHH132	**3366028**	

Volatiles by EPA 8260D

HS24060985-08	Collected	Received	Matrix
3366028007x10	06/14/24 11:15	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	668		ug/L	3.3	7.5	10.0	10	06/28/24 17:52	25240628	2524062824

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-09 | **Collected** 06/14/24 12:00 | **Received** 06/26/24 09:36 | **Matrix** GW

3366028008

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 12:46	25240628	2524062808
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 12:46	25240628	2524062808
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:46	25240628	2524062808
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:46	25240628	2524062808
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:46	25240628	2524062808
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 12:46	25240628	2524062808
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-09 | Collected: 06/14/24 12:00 | Received: 06/26/24 09:36 | Matrix: GW

3366028008

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 12:46	25240628	2524062808
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 12:46	25240628	2524062808
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 12:46	25240628	2524062808

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-10

	Collected	Received	Matrix
3366028009	06/14/24 12:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 17:09	23240627	2324062719
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 17:09	23240627	2324062719
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 17:09	23240627	2324062719
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 17:09	23240627	2324062719
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 17:09	23240627	2324062719
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 17:09	23240627	2324062719
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-10 | Collected: 06/14/24 12:00 | Received: 06/26/24 09:36 | Matrix: GW

3366028009

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 17:09	23240627	2324062719
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 17:09	23240627	2324062719
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Trichloroethene	1.2		ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 17:09	23240627	2324062719

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-11

	Collected	Received	Matrix
3366028010	06/14/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 12:50	23240627	2324062706
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 12:50	23240627	2324062706
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 12:50	23240627	2324062706
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 12:50	23240627	2324062706
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 12:50	23240627	2324062706
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 12:50	23240627	2324062706
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

HS24060985-11

3366028010

Collected	Received	Matrix
06/14/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 12:50	23240627	2324062706
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 12:50	23240627	2324062706
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Trichlorofluoromethane	2.7		ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 12:50	23240627	2324062706

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

MB for HBN 1235282 [VOMS/73629 | **Matrix**

3845268 | WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 10:53	23240627	2324062705
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 10:53	23240627	2324062705
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 10:53	23240627	2324062705
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 10:53	23240627	2324062705
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 10:53	23240627	2324062705
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 10:53	23240627	2324062705
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

MB for HBN 1235282 [VOMS/73629 | **Matrix**

3845268 | WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 10:53	23240627	2324062705
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 10:53	23240627	2324062705
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 10:53	23240627	2324062705

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

LCS for HBN 1235282 [VOMS/7362

3845269

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	23.3		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1,1-Trichloroethane	21.8		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1,2,2-Tetrachloroethane	22.9		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1,2-Trichloroethane	22.4		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1-Dichloroethane	19.9		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1-Dichloroethene	21.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,1-Dichloropropene	21.3		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2,3-Trichlorobenzene	23.4		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2,3-Trichloropropane	21.3		ug/L	1.6	2.5	5.0	1	06/27/24 09:34	23240627	2324062702
1,2,4-Trichlorobenzene	25.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2,4-Trimethylbenzene	23.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2-Dibromo-3-chloropropane	20.6		ug/L	1.6	2.5	5.0	1	06/27/24 09:34	23240627	2324062702
1,2-Dibromoethane	22		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2-Dichlorobenzene	23.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2-Dichloroethane	21		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,2-Dichloropropane	22.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,3,5-Trimethylbenzene	23.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,3-Dichlorobenzene	22.8		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,3-Dichloropropane	22.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
1,4-Dichlorobenzene	22.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
2,2-Dichloropropane	23.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
2-Butanone	110		ug/L	1.6	3.8	5.0	1	06/27/24 09:34	23240627	2324062702
2-Hexanone	102		ug/L	1.6	3.8	5.0	1	06/27/24 09:34	23240627	2324062702
4-Methyl-2-Pentanone(MIBK)	103		ug/L	1.6	3.8	5.0	1	06/27/24 09:34	23240627	2324062702
Acetone	121		ug/L	1.6	3.8	5.0	1	06/27/24 09:34	23240627	2324062702
Benzene	21.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Bromobenzene	22.2		ug/L	0.20	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Bromochloromethane	22.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Bromodichloromethane	22.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Bromoform	19.9		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Bromomethane	19.8		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Carbon Disulfide	21.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

LCS for HBN 1235282 [VOMS/7362

3845269

Matrix WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Chlorobenzene	23.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Chlorodibromomethane	20.3		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Chloroethane	20.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Chloroform	21.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Chloromethane	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
cis-1,2-Dichloroethene	22.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
cis-1,3-Dichloropropene	20.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Dibromomethane	21.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Dichlorodifluoromethane	18.3		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Ethylbenzene	22.4		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Hexachlorobutadiene	24.2		ug/L	0.43	3.8	5.0	1	06/27/24 09:34	23240627	2324062702
Isopropylbenzene	23.9		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Methylene Chloride	21.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
mp-Xylene	46.3		ug/L	0.66	1.5	2.0	1	06/27/24 09:34	23240627	2324062702
Naphthalene	21.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
n-Butylbenzene	23.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
n-Propylbenzene	22.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
o-Chlorotoluene	23.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
o-Xylene	23.4		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
p-Chlorotoluene	23.1		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
p-Isopropyltoluene	23.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
sec-Butylbenzene	23.3		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Styrene	22.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
tert-Butylbenzene	22.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Tetrachloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Toluene	22.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
trans-1,2-Dichloroethene	21.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
trans-1,3-Dichloropropene	21.2		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Trichloroethene	20.7		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Trichlorofluoromethane	18.9		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702
Vinyl Chloride	20.6		ug/L	0.33	0.75	1.0	1	06/27/24 09:34	23240627	2324062702

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder 3366028

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650

3845975

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650

3845975

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 11:24	25240628	2524062804
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,1-Trichloroethane	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2,2-Tetrachloroethane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2-Trichloroethane	20.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloropropene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichlorobenzene	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichloropropane	21.2		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trichlorobenzene	24.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trimethylbenzene	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromo-3-chloropropane	18.9		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromoethane	19		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichlorobenzene	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloroethane	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloropropane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3,5-Trimethylbenzene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichlorobenzene	22.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichloropropane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,4-Dichlorobenzene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2,2-Dichloropropane	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2-Butanone	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
2-Hexanone	103		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
4-Methyl-2-Pentanone(MIBK)	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Acetone	108		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Benzene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromobenzene	20.1		ug/L	0.20	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromochloromethane	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromodichloromethane	18.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromoform	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromomethane	20		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Carbon Disulfide	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorobenzene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorodibromomethane	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroethane	20.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroform	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,2-Dichloroethene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,3-Dichloropropene	18.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dibromomethane	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dichlorodifluoromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Ethylbenzene	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Hexachlorobutadiene	22.7		ug/L	0.43	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Isopropylbenzene	24.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Methylene Chloride	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
mp-Xylene	38.9		ug/L	0.66	1.5	2.0	1	06/28/24 10:23	25240628	2524062802
Naphthalene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Butylbenzene	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Propylbenzene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Chlorotoluene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Xylene	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Chlorotoluene	22.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Isopropyltoluene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
sec-Butylbenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Styrene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
tert-Butylbenzene	22.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Tetrachloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Toluene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,2-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,3-Dichloropropene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichlorofluoromethane	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Vinyl Chloride	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

RUNID 23240627

Volatiles by EPA 8260D

HS24060985-01

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028001	MS23	GW	06/27/24 14:30	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062711.D	30.4	30	101		81-118
4-Bromofluorobenzene	2324062711.D	27.9	30	93		85-114
Dibromofluoromethane	2324062711.D	29.8	30	99		80-119
Toluene-d8	2324062711.D	30.2	30	101		89-112

HS24060985-02

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028002	MS23	GW	06/27/24 14:49	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062712.D	31	30	103		81-118
4-Bromofluorobenzene	2324062712.D	28.7	30	96		85-114
Dibromofluoromethane	2324062712.D	30.5	30	102		80-119
Toluene-d8	2324062712.D	30.6	30	102		89-112

HS24060985-03

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028003	MS23	GW	06/27/24 15:09	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062713.D	29.2	30	97		81-118
4-Bromofluorobenzene	2324062713.D	27.7	30	92		85-114
Dibromofluoromethane	2324062713.D	29.2	30	97		80-119
Toluene-d8	2324062713.D	29	30	97		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

RUNID 23240627

HS24060985-04

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028004	MS23	GW	06/27/24 15:29	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062714.D	31.2	30	104		81-118
4-Bromofluorobenzene	2324062714.D	28.1	30	94		85-114
Dibromofluoromethane	2324062714.D	30.1	30	100		80-119
Toluene-d8	2324062714.D	29.3	30	98		89-112

HS24060985-06

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028006	MS23	GW	06/27/24 16:09	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062716.D	30.4	30	101		81-118
4-Bromofluorobenzene	2324062716.D	31.1	30	104		85-114
Dibromofluoromethane	2324062716.D	29.6	30	99		80-119
Toluene-d8	2324062716.D	30.3	30	101		89-112

HS24060985-08

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028007	MS23	GW	06/27/24 16:29	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062717.D	33.6	30	112		81-118
4-Bromofluorobenzene	2324062717.D	28.1	30	94		85-114
Dibromofluoromethane	2324062717.D	30.1	30	100		80-119
Toluene-d8	2324062717.D	29.6	30	99		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

RUNID 23240627

HS24060985-10

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028009	MS23	GW	06/27/24 17:09	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062719.D	31.3	30	104		81-118
4-Bromofluorobenzene	2324062719.D	28.6	30	95		85-114
Dibromofluoromethane	2324062719.D	30.5	30	102		80-119
Toluene-d8	2324062719.D	30.5	30	102		89-112

HS24060985-11

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028010	MS23	GW	06/27/24 12:50	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062706.D	29.8	30	99		81-118
4-Bromofluorobenzene	2324062706.D	30.5	30	102		85-114
Dibromofluoromethane	2324062706.D	29.1	30	97		80-119
Toluene-d8	2324062706.D	31	30	103		89-112

MB for HBN 1235282 [VOMS/73629

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845268	MS23	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062705.D	29.3	30	98		81-118
4-Bromofluorobenzene	2324062705.D	29.1	30	97		85-114
Dibromofluoromethane	2324062705.D	29.1	30	97		80-119
Toluene-d8	2324062705.D	29.4	30	98		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder 3366028

Volatiles by EPA 8260D

RUNID 23240627

LCS for HBN 1235282 [VOMS/7362	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845269	MS23	WQ	06/27/24 09:34	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2324062702.D	29.4	30	98		81-118
4-Bromofluorobenzene	2324062702.D	29.4	30	98		85-114
Dibromofluoromethane	2324062702.D	29	30	97		80-119
Toluene-d8	2324062702.D	30.1	30	100		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

RUNID 25240628

Volatiles by EPA 8260D

HS24060985-04

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028004	MS25	GW	06/28/24 17:32	ug/L	10

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062823.D	309	300	103		81-118
4-Bromofluorobenzene	2524062823.D	299	300	100		85-114
Dibromofluoromethane	2524062823.D	272	300	91		80-119
Toluene-d8	2524062823.D	296	300	99		89-112

HS24060985-05

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028005	MS25	GW	06/28/24 12:26	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062807.D	32.9	30	110		81-118
4-Bromofluorobenzene	2524062807.D	30.8	30	103		85-114
Dibromofluoromethane	2524062807.D	29.3	30	98		80-119
Toluene-d8	2524062807.D	31.5	30	105		89-112

HS24060985-08

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028007	MS25	GW	06/28/24 17:52	ug/L	10

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062824.D	340	300	113		81-118
4-Bromofluorobenzene	2524062824.D	311	300	104		85-114
Dibromofluoromethane	2524062824.D	302	300	101		80-119
Toluene-d8	2524062824.D	314	300	105		89-112

Form 2 - System Monitoring Compound Recovery

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Workorder **3366028**

Volatiles by EPA 8260D

RUNID 25240628

HS24060985-09

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366028008	MS25	GW	06/28/24 12:46	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062808.D	31	30	103		81-118
4-Bromofluorobenzene	2524062808.D	27.8	30	93		85-114
Dibromofluoromethane	2524062808.D	27.9	30	93		80-119
Toluene-d8	2524062808.D	29.5	30	98		89-112

MB for HBN 1236144 [VOMS/73650

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845975	MS25	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062804.D	30.6	30	102		81-118
4-Bromofluorobenzene	2524062804.D	26.8	30	89		85-114
Dibromofluoromethane	2524062804.D	27.6	30	92		80-119
Toluene-d8	2524062804.D	30.3	30	101		89-112

LCS for HBN 1236144 [VOMS/7365

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845976	MS25	WQ	06/28/24 10:23	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062802.D	30.4	30	101		81-118
4-Bromofluorobenzene	2524062802.D	29.2	30	97		85-114
Dibromofluoromethane	2524062802.D	29.7	30	99		80-119
Toluene-d8	2524062802.D	30.3	30	101		89-112

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260D

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Form 3B - Laboratory Control Sample Recovery

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Workorder **3366028**

SAMPLENUM LCS-3845269

Volatiles by EPA 8260D

23240627			3845269		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/27/24 **Run Time** 09:34		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	23.3	**116**	
1,1,1-Trichloroethane	74-131	20	21.8	**109**	
1,1,2,2-Tetrachloroethane	71-121	20	22.9	**115**	
1,1,2-Trichloroethane	80-119	20	22.4	**112**	
1,1-Dichloroethane	77-125	20	19.9	**100**	
1,1-Dichloroethene	71-131	20	21.2	**106**	
1,1-Dichloropropene	79-125	20	21.3	**106**	
1,2,3-Trichlorobenzene	69-129	20	23.4	**117**	
1,2,3-Trichloropropane	73-122	20	21.3	**107**	
1,2,4-Trichlorobenzene	69-130	20	25.2	**126**	
1,2,4-Trimethylbenzene	76-124	20	23.5	**118**	
1,2-Dibromo-3-chloropropane	62-128	20	20.6	**103**	
1,2-Dibromoethane	77-121	20	22	**110**	
1,2-Dichlorobenzene	80-119	20	23.1	**116**	
1,2-Dichloroethane	73-128	20	21	**105**	
1,2-Dichloropropane	78-122	20	22.1	**110**	
1,3,5-Trimethylbenzene	75-124	20	23.5	**118**	
1,3-Dichlorobenzene	80-119	20	22.8	**114**	
1,3-Dichloropropane	80-119	20	22.6	**113**	
1,4-Dichlorobenzene	79-118	20	22.7	**113**	
2,2-Dichloropropane	60-139	20	23.2	**116**	
2-Butanone	56-143	100	110	**110**	
2-Hexanone	57-139	100	102	**102**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	103	**103**	
Acetone	39-160	100	121	**121**	
Benzene	79-120	20	21.7	**108**	
Bromobenzene	80-120	20	22.2	**111**	
Bromochloromethane	78-123	20	22.7	**114**	
Bromodichloromethane	79-125	20	22.1	**111**	
Bromoform	66-130	20	19.9	**100**	
Bromomethane	53-141	20	19.8	**99**	
Carbon Disulfide	64-133	20	21.6	**108**	
Carbon Tetrachloride	72-136	20	19.1	**95**	
Chlorobenzene	82-118	20	23.1	**115**	
Chlorodibromomethane	74-126	20	20.3	**101**	

Form 3B - Laboratory Control Sample Recovery

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Workorder **3366028**

SAMPLENUM LCS-3845269

Volatiles by EPA 8260D

23240627			3845269		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/27/24 **Run Time** 09:34		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	20.6	**103**	
Chloroform	79-124	20	21.1	**106**	
Chloromethane	50-139	20	19.1	**96**	
cis-1,2-Dichloroethene	78-123	20	22.2	**111**	
cis-1,3-Dichloropropene	75-124	20	20.5	**103**	
Dibromomethane	79-123	20	21.6	**108**	
Dichlorodifluoromethane	32-152	20	18.3	**92**	
Ethylbenzene	79-121	20	22.4	**112**	
Hexachlorobutadiene	66-134	20	24.2	**121**	
Isopropylbenzene	72-131	20	23.9	**120**	
Methylene Chloride	74-124	20	21.7	**109**	
mp-Xylene	80-121	40	46.3	**116**	
Naphthalene	61-128	20	21.6	**108**	
n-Butylbenzene	75-128	20	23.5	**117**	
n-Propylbenzene	76-126	20	22.6	**113**	
o-Chlorotoluene	79-122	20	23.1	**116**	
o-Xylene	78-122	20	23.4	**117**	
p-Chlorotoluene	78-122	20	23.1	**116**	
p-Isopropyltoluene	77-127	20	23.2	**116**	
sec-Butylbenzene	77-126	20	23.3	**116**	
Styrene	78-123	20	22.2	**111**	
tert-Butylbenzene	78-124	20	22.5	**113**	
Tetrachloroethene	74-129	20	21.5	**107**	
Toluene	80-121	20	22.2	**111**	
trans-1,2-Dichloroethene	75-124	20	21.7	**109**	
trans-1,3-Dichloropropene	73-127	20	21.2	**106**	
Trichloroethene	79-123	20	20.7	**103**	
Trichlorofluoromethane	65-141	20	18.9	**94**	
Vinyl Chloride	58-137	20	20.6	**103**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

SAMPLENUM LCS-3845976

Volatiles by EPA 8260D

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.1	**96**	
1,1,1-Trichloroethane	74-131	20	21.5	**108**	
1,1,2,2-Tetrachloroethane	71-121	20	21.6	**108**	
1,1,2-Trichloroethane	80-119	20	20.7	**104**	
1,1-Dichloroethane	77-125	20	20.8	**104**	
1,1-Dichloroethene	71-131	20	21.5	**108**	
1,1-Dichloropropene	79-125	20	20.6	**103**	
1,2,3-Trichlorobenzene	69-129	20	19.5	**97**	
1,2,3-Trichloropropane	73-122	20	21.2	**106**	
1,2,4-Trichlorobenzene	69-130	20	24.1	**121**	
1,2,4-Trimethylbenzene	76-124	20	20.1	**101**	
1,2-Dibromo-3-chloropropane	62-128	20	18.9	**95**	
1,2-Dibromoethane	77-121	20	19	**95**	
1,2-Dichlorobenzene	80-119	20	21.9	**110**	
1,2-Dichloroethane	73-128	20	19.7	**99**	
1,2-Dichloropropane	78-122	20	20.8	**104**	
1,3,5-Trimethylbenzene	75-124	20	21.2	**106**	
1,3-Dichlorobenzene	80-119	20	22.1	**110**	
1,3-Dichloropropane	80-119	20	21.6	**108**	
1,4-Dichlorobenzene	79-118	20	21.8	**109**	
2,2-Dichloropropane	60-139	20	21.3	**107**	
2-Butanone	56-143	100	104	**104**	
2-Hexanone	57-139	100	103	**103**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	104	**104**	
Acetone	39-160	100	108	**108**	
Benzene	79-120	20	19.9	**99**	
Bromobenzene	80-120	20	20.1	**100**	
Bromochloromethane	78-123	20	21.2	**106**	
Bromodichloromethane	79-125	20	18.8	**94**	
Bromoform	66-130	20	18.1	**90**	
Bromomethane	53-141	20	20	**100**	
Carbon Disulfide	64-133	20	21.1	**106**	
Carbon Tetrachloride	72-136	20	17.4	**87**	
Chlorobenzene	82-118	20	20.6	**103**	
Chlorodibromomethane	74-126	20	18.1	**90**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

SAMPLENUM LCS-3845976

Volatiles by EPA 8260D

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	20.3	**102**	
Chloroform	79-124	20	20.8	**104**	
Chloromethane	50-139	20	20.1	**100**	
cis-1,2-Dichloroethene	78-123	20	21.1	**106**	
cis-1,3-Dichloropropene	75-124	20	18.9	**94**	
Dibromomethane	79-123	20	20.2	**101**	
Dichlorodifluoromethane	32-152	20	20.1	**101**	
Ethylbenzene	79-121	20	19.1	**96**	
Hexachlorobutadiene	66-134	20	22.7	**113**	
Isopropylbenzene	72-131	20	24.2	**121**	
Methylene Chloride	74-124	20	21.4	**107**	
mp-Xylene	80-121	40	38.9	**97**	
Naphthalene	61-128	20	19.9	**100**	
n-Butylbenzene	75-128	20	21.3	**107**	
n-Propylbenzene	76-126	20	21.1	**106**	
o-Chlorotoluene	79-122	20	21.4	**107**	
o-Xylene	78-122	20	19.3	**96**	
p-Chlorotoluene	78-122	20	22.4	**112**	
p-Isopropyltoluene	77-127	20	21.8	**109**	
sec-Butylbenzene	77-126	20	22.9	**115**	
Styrene	78-123	20	21.2	**106**	
tert-Butylbenzene	78-124	20	22.5	**113**	
Tetrachloroethene	74-129	20	20.2	**101**	
Toluene	80-121	20	19.6	**98**	
trans-1,2-Dichloroethene	75-124	20	21.5	**108**	
trans-1,3-Dichloropropene	73-127	20	19.6	**98**	
Trichloroethene	79-123	20	20.2	**101**	
Trichlorofluoromethane	65-141	20	19.3	**97**	
Vinyl Chloride	58-137	20	19.7	**99**	

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Form 4

Method Blank Summary

Volatiles by EPA 8260D

Workorder

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Form 4 - Method Blank Summary

Client ALS Houston

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Workorder **3366028**

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3845268		WQ	06/27/24 10:53	1235282	MS23	

Client Sample ID	Type	Lab Sample ID	2324062705.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1235282 [VOMS/7362	LCS	3845269	2324062702.D	06/27/24 09:34	1235282	MS23	
HS24060985-11	SAMPLE	3366028010	2324062706.D	06/27/24 12:50	1235282	MS23	
HS24060985-01	SAMPLE	3366028001	2324062711.D	06/27/24 14:30	1235282	MS23	
HS24060985-02	SAMPLE	3366028002	2324062712.D	06/27/24 14:49	1235282	MS23	
HS24060985-03	SAMPLE	3366028003	2324062713.D	06/27/24 15:09	1235282	MS23	
HS24060985-04	SAMPLE	3366028004	2324062714.D	06/27/24 15:29	1235282	MS23	
HS24060985-06	SAMPLE	3366028006	2324062716.D	06/27/24 16:09	1235282	MS23	
HS24060985-08	SAMPLE	3366028007	2324062717.D	06/27/24 16:29	1235282	MS23	
HS24060985-10	SAMPLE	3366028009	2324062719.D	06/27/24 17:09	1235282	MS23	

Form 4 - Method Blank Summary

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3845975		WQ	06/28/24 11:24	1236144	MS25	

Client Sample ID	Type	Lab Sample ID	2524062804.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1236144 [VOMS/7365	LCS	3845976	2524062802.D	06/28/24 10:23	1236144	MS25	
HS24060985-05	SAMPLE	3366028005	2524062807.D	06/28/24 12:26	1236144	MS25	
HS24060985-09	SAMPLE	3366028008	2524062808.D	06/28/24 12:46	1236144	MS25	
HS24060985-04	SAMPLE	3366028004	2524062823.D	06/28/24 17:32	1236144	MS25	
HS24060985-08	SAMPLE	3366028007	2524062824.D	06/28/24 17:52	1236144	MS25	

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Form 5

Instrument Performance Check

Volatiles by EPA 8260D

Workorder

3366028

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Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

RUNID 23240625

8260D

Tune File 2324062500.D 06/25/24 10:30

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	18.71
75	30.00 - 60.00% of mass 95	51.13
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.55 (0.55)
174	Greater than 50.00% of mass 95	99.24
175	5.00 - 9.00% of mass 174	7.49 (7.54)
176	95.00 - 101.00% of mass 174	99.13 (99.89)
177	5.00 - 9.00% of mass 176	6.15 (6.20)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/25 10:30	2324062500	BFB
2	VSTD00.5	ICAL8	06/25 11:40	2324062503	LEVEL8
3	1234	ICAL1	06/25 12:00	2324062504	LEVEL1
4	1235	ICAL2	06/25 12:20	2324062505	LEVEL2
5	1236	ICAL3	06/25 12:40	2324062506	LEVEL3
6	1237	ICAL4	06/25 13:00	2324062507	LEVEL4
7	1238	ICAL5	06/25 13:20	2324062508	LEVEL5
8	1239	ICAL6	06/25 13:39	2324062509	LEVEL6
9	ICVQ	ICV	06/25 15:39	2324062515IC	ICV
10	1801	CCV	06/25 21:17	2324062532	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

RUNID 23240627

8260D

Tune File 2324062700.D 06/27/24 08:15

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	51.79
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	95.99
175	5.00 - 9.00% of mass 174	7.22 (7.52)
176	95.00 - 101.00% of mass 174	94.94 (98.91)
177	5.00 - 9.00% of mass 176	6.39 (6.73)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/27 08:15	2324062700	BFB
2	1800	CCV	06/27 08:44	2324062701	CCV
3	3845269	LCS	06/27 09:34	2324062702	LCS for HBN 1235282
4	3845268	MB	06/27 10:53	2324062705	MB for HBN 1235282
5	3366028010	SAMP	06/27 12:50	2324062706	HS24060985-11
6	3366028001	SAMP	06/27 14:30	2324062711	HS24060985-01
7	3366028002	SAMP	06/27 14:49	2324062712	HS24060985-02
8	3366028003	SAMP	06/27 15:09	2324062713	HS24060985-03
9	3366028004	SAMP	06/27 15:29	2324062714	HS24060985-04
10	3366028006	SAMP	06/27 16:09	2324062716	HS24060985-06
11	3366028007	SAMP	06/27 16:29	2324062717	HS24060985-08
12	3366028009	SAMP	06/27 17:09	2324062719	HS24060985-10
13	1801	CCV	06/27 19:48	2324062727	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24060985 - AHH132

Workorder **3366028**

RUNID 25240625

8260D

Tune File 2524062500.D 06/25/24 09:52

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/25 09:52	2524062500	BFB
2	VSTD00.5	ICAL8	06/25 11:03	2524062503	LEVEL8
3	1234	ICAL1	06/25 11:23	2524062504	LEVEL1
4	1235	ICAL2	06/25 11:44	2524062505	LEVEL2
5	1236	ICAL3	06/25 12:04	2524062506	LEVEL3
6	1237	ICAL4	06/25 12:24	2524062507	LEVEL4
7	1238	ICAL5	06/25 12:45	2524062508	LEVEL5
8	1239	ICAL6	06/25 13:05	2524062509	LEVEL6
9	ICVQ	ICV	06/25 15:08	2524062515IC	ICV
10	1801	CCV	06/25 20:54	2524062532	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24060985 - AHH132

Workorder 3366028

RUNID 25240628

8260D

Tune File 2524062800.D 06/28/24 09:00

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/28 09:00	2524062800	BFB
2	1800	CCV	06/28 09:53	2524062801	CCV
3	3845976	LCS	06/28 10:23	2524062802	LCS for HBN 1236144
4	3845975	MB	06/28 11:24	2524062804	MB for HBN 1236144
5	3366028005	SAMP	06/28 12:26	2524062807	HS24060985-05
6	3366028008	SAMP	06/28 12:46	2524062808	HS24060985-09
7	3366028004	SAMP	06/28 17:32	2524062823	HS24060985-04
8	3366028007	SAMP	06/28 17:52	2524062824	HS24060985-08
9	1801	CCV	06/28 19:34	2524062829	CCV

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Form 6

Initial Calibration Data

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

Instrument ID MS23
ICAL Start Date 25-JUN-2024 1140
ICAL End Date 25-JUN-2024 1339

Calibration Files

Level1 - 23240625.b\2324062504.D
Level2 - 23240625.b\2324062505.D
Level3 - 23240625.b\2324062506.D
Level4 - 23240625.b\2324062507.D
Level5 - 23240625.b\2324062508.D
Level6 - 23240625.b\2324062509.D
Level8 - 23240625.b\2324062503.D

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	0.499 0.361	0.431	0.403	0.471	0.465	0.451	AVRG		0.440		10.6	
Chloromethane	0.357 0.259	0.252	0.232	0.266	0.253	0.263	AVRG		0.269		15.0	
Vinyl Chloride	0.303 0.215	0.251	0.236	0.279	0.287	0.283	AVRG		0.265		11.9	
Bromomethane	4253 6090	26020	100967	306932	622263	1219692	WLINR	0.000	4.99		0.997	
Chloroethane	0.172 0.121	0.133	0.142	0.148	0.150	0.155	AVRG		0.146		11.2	
Pentane	0.205 0.191	0.166	0.150	0.183	0.177	0.174	AVRG		0.178		9.91	
Trichlorofluoromethane	0.643 0.468	0.542	0.523	0.598	0.599	0.575	AVRG		0.564		10.3	
Dichlorofluoromethane	0.386 0.399	0.477	0.463	0.558	0.528	0.521	AVRG		0.476		13.8	
Ethyl Ether	0.119 0.135	0.150	0.144	0.172	0.158	0.162	AVRG		0.149		12.0	
1,1-Dichloroethene	0.301 0.305	0.330	0.312	0.378	0.365	0.362	AVRG		0.336		9.39	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 2 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Freon 113	0.202 0.202	0.226	0.217	0.256	0.251	0.246	AVRG		0.229		10.0	
Carbon Disulfide	0.597 0.534	0.652	0.609	0.737	0.718	0.717	AVRG		0.652		11.7	
Iodomethane	1590 2825	13893	60406	219972	460467	NE	QUAD	0.000e+000	0.121	0.009	0.997	
Acrolein	0.037 0.035	0.043	0.039	0.049	0.046	0.046	AVRG		0.042		12.7	
Isopropyl Alcohol	2589 4164	13708	48455	137431	258796	529233	WLINR	-0.068	57.8		0.999	
3-Chloro-1-propene	2843 6383	35943	145446	432653	817321	1488539	WLINR	0.006	3.88		0.997	
Methylene Chloride	0.207 0.222	0.246	0.230	0.277	0.261	0.262	AVRG		0.244		10.3	
Acetone	0.020 0.019	0.023	0.021	0.026	0.024	0.024	AVRG		0.022		10.6	
Methyl acetate	0.073 0.052	0.055	0.050	0.058	0.054	0.054	AVRG		0.057		13.4	
trans-1,2-Dichloroethene	0.249 0.275	0.313	0.298	0.353	0.336	0.334	AVRG		0.308		12.0	
Hexane	0.585 0.439	0.430	0.393	0.465	0.446	0.440	AVRG		0.457		13.3	
Methyl t-Butyl Ether	0.675 0.699	0.834	0.797	0.967	0.897	0.889	AVRG		0.823		13.0	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 3 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
tert.- Butyl Alcohol	0.031 0.028	0.031	0.033	0.040	0.038	0.038	AVRG		0.034		13.0	
Acetonitrile	0.023 0.022	0.025	0.024	0.030	0.028	0.028	AVRG		0.026		11.7	
Diisopropyl ether	0.464 0.483	0.596	0.539	0.660	0.619	0.622	AVRG		0.569		13.2	
Chloroprene	3948 11526	53093	183558	641269	1237055	2394765	WLINR	0.008	2.51		0.996	
1,1-Dichloroethane	4691 11278	62741	241048	720177	1340093	2614914	WLINR	0.007	2.28		0.999	
Acrylonitrile	6986 12112	76325	314537	877946	1771801	3423071	WLINR	0.041	8.76		0.999	
Ethyl tert-butyl ether	8862 20746	113573	449788	1342880	2505280	4924429	WLINR	0.007	1.21		0.999	
n-Propanol	0.011 0.011	0.014	0.013	0.015	0.014	0.014	AVRG		0.013		12.7	
Vinyl Acetate	642 1806	8615	39752	117168	224756	440996	WLINR	0.010	13.6		0.998	
cis-1,2-Dichloroethene	0.286 0.262	0.322	0.301	0.369	0.346	0.346	AVRG		0.319		11.8	
2,2-Dichloropropane	0.344 0.357	0.433	0.410	0.480	0.465	0.457	AVRG		0.421		12.7	
Bromochloromethane	0.144 0.125	0.155	0.151	0.179	0.165	0.159	AVRG		0.154		10.9	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 4 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Cyclohexane	0.290 0.344	0.363	0.341	0.394	0.389	0.381	AVRG		0.358		10.2	
Chloroform	0.484 0.491	0.538	0.500	0.604	0.567	0.560	AVRG		0.535		8.43	
Ethyl Acetate	0.190 0.209	0.228	0.226	0.272	0.259	0.261	AVRG		0.235		12.8	
Methyl acrylate	2535 6069	32477	131330	407226	764157	1510437	WLINR	0.009	3.98		0.998	
Carbon Tetrachloride	5500 11155	68615	262887	787031	1488538	2915544	WLINR	0.008	2.05		0.999	
Tetrahydrofuran	0.050 0.054	0.063	0.059	0.073	0.068	0.068	AVRG		0.062		13.5	
1,1,1-Trichloroethane	0.383 0.417	0.509	0.468	0.572	0.542	0.531	AVRG		0.489		14.2	
2-Butanone	0.030 0.029	0.035	0.033	0.040	0.038	0.037	AVRG		0.035		12.0	
1,1-Dichloropropene	0.272 0.310	0.354	0.333	0.399	0.386	0.382	AVRG		0.348		13.3	
1-Chlorobutane	0.221 0.217	0.219	0.206	0.247	0.237	0.235	AVRG		0.226		6.33	
Heptane	0.163 0.135	0.168	0.146	0.176	0.170	0.167	AVRG		0.161		9.24	
Benzene	0.742 0.829	0.944	0.872	1.05	0.986	0.973	AVRG		0.913		11.5	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 5 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Propionitrile	2310 4493	26997	111637	318888	626298	1222273	WLINR	0.042	24.5		0.999	
Methacrylonitrile	0.100 0.090	0.115	0.102	0.129	0.122	0.123	AVRG		0.112		13.0	
tert-Amyl methyl ether	9267 19739	117980	449709	1371197	2545425	4957541	WLINR	0.007	1.20		0.998	
Isobutyl alcohol	787 1721	6416	29316	106903	223192	479826	QUAD	0.000e+000	0.006	0.000	0.999	
1,2-Dichloroethane	0.387 0.381	0.432	0.408	0.493	0.459	0.455	AVRG		0.431		9.54	
tert-Amyl Alcohol	0.021 0.026	0.022	0.023	0.029	0.028	0.029	AVRG		0.026		13.2	
Diisobutylene	35179 41095	98758	285696	780195	1511490	2911332	WLINR	-0.057	2.08		0.999	
Trichloroethene	0.249 0.263	0.280	0.256	0.315	0.298	0.297	AVRG		0.280		8.84	
Methyl cyclohexane	0.773 0.758	0.887	0.789	0.954	0.924	0.905	AVRG		0.856		9.34	
tert-Amyl Ethylether	0.461 0.459	0.549	0.531	0.647	0.608	0.610	AVRG		0.552		13.4	
Dibromomethane	0.134 0.168	0.178	0.169	0.211	0.199	0.200	AVRG		0.180		14.5	
1,2-Dichloropropane	0.154 0.182	0.195	0.191	0.231	0.220	0.222	AVRG		0.199		13.6	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 6 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	0.310	0.317	0.383	0.364	0.456	0.427	0.427	AVRG		0.384		14.7	
Methyl methacrylate	2755	5296	33049	126355	381330	727328	1438473	WLINR	0.008	4.18		0.999	
1,4-Dioxane	0.003	0.003	0.004	0.004	0.005	0.004	0.004	AVRG		0.004		14.1	
2-Chloroethylvinyl ether	204	897	6260	33217	192392	417185	NE	QUAD	-0.009	0.102	0.012	0.993	
cis-1,3-Dichloropropene	4347	10164	63118	248734	753775	1441791	2843164	WLINR	0.010	0.943		0.998	
Octane	0.293	0.265	0.347	0.322	0.386	0.369	0.362	AVRG		0.335		13.0	
Toluene	1.36	1.34	1.48	1.33	1.66	1.55	1.55	AVRG		1.47		8.76	
Chloroacetonitrile	640	1948	12126	54037	163430	311694	627456	WLINR	0.069	21.6		0.998	
2-Nitropropane	5576	10921	69519	292246	908380	1715206	3365902	WLINR	0.053	3.97		0.997	
1,1-Dichloro-2-Propanone	0.020	0.018	0.020	0.018	0.023	0.022	0.022	AVRG		0.021		9.62	
4-Methyl-2-Pentanone(MIBK)	12653	27457	166149	651962	1973695	3665300	7189338	WLINR	0.039	1.85		0.998	
trans-1,3-Dichloropropene	5552	10951	66164	260792	787276	1490778	2913743	WLINR	0.008	0.916		0.998	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 7 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Tetrachloroethene	0.589 0.595	0.654	0.574	0.718	0.673	0.664	AVRG		0.638		8.32	
Ethyl Methacrylate	3894 8230	51811	211466	643225	1218362	2405464	WLINR	0.010	1.11		0.998	
1,1,2-Trichloroethane	0.340 0.383	0.464	0.420	0.509	0.463	0.470	AVRG		0.436		13.4	
Chlorodibromomethane	3928 9304	52711	206382	635027	1204535	2395175	WLINR	0.009	1.12		0.998	
1,3-Dichloropropane	0.713 0.811	0.940	0.850	1.08	0.994	1.01	AVRG		0.914		14.1	
1,2-Dibromoethane	0.555 0.535	0.635	0.594	0.749	0.691	0.705	AVRG		0.638		12.7	
2-Hexanone	9467 18110	119861	465972	1440967	2702708	5340055	WLINR	0.045	2.51		0.998	
1-Chlorohexane	0.718 0.683	0.755	0.692	0.858	0.830	0.829	AVRG		0.766		9.44	
Chlorobenzene	1.38 1.48	1.75	1.58	1.97	1.82	1.82	AVRG		1.69		12.6	
Ethylbenzene	0.751 0.866	0.890	0.801	1.02	0.944	0.951	AVRG		0.888		10.3	
1,1,1,2-Tetrachloroethane	0.546 0.597	0.693	0.653	0.824	0.762	0.767	AVRG		0.692		14.5	
mp-Xylene	0.923 0.912	1.10	1.00	1.25	1.17	1.16	AVRG		1.07		12.1	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 8 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
o-Xylene	0.865	0.885	1.07	0.996	1.24	1.16	1.18	AVRG		1.06		13.8	
Styrene	8632	20380	119222	457158	1403296	2664565	5251559	WLINR	0.007	0.593		0.997	
Bromoform	3134	6236	37264	156525	489935	943750	1872007	WLINR	0.010	1.68		0.997	
Isopropylbenzene	15455	31713	175788	661590	1982640	3847733	7380210	WLINR	0.004	0.418		0.997	
100 1,2-Dichloroethene, Total	0.268	0.268	0.317	0.299	0.361	0.341	0.340	AVRG		0.314		11.7	
Bromobenzene	0.721	0.695	0.764	0.644	0.846	0.780	0.767	AVRG		0.745		8.76	
n-Propylbenzene	0.706	0.633	0.752	0.605	0.777	0.742	0.726	AVRG		0.706		9.03	
1,1,2,2-Tetrachloroethane	0.525	0.517	0.646	0.564	0.728	0.669	0.666	AVRG		0.616		13.2	
o-Chlorotoluene	1.72	1.71	2.03	1.72	2.22	2.06	2.01	AVRG		1.92		10.6	
1,3,5-Trimethylbenzene	1.71	1.88	2.26	1.87	2.42	2.27	2.16	AVRG		2.08		12.5	
1,2,3-Trichloropropane	0.216	0.218	0.278	0.242	0.313	0.285	0.279	AVRG		0.261		14.0	
trans-1,4-Dichloro-2-butene	917	2713	15498	64425	203565	388645	770313	WLINR	0.011	4.06		0.997	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 9 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
p-Chlorotoluene	1.58	1.59	1.89	1.57	2.04	1.91	1.86	AVRG		1.78		10.8	
tert-Butylbenzene	0.454	0.459	0.562	0.466	0.601	0.560	0.544	AVRG		0.521		11.5	
Pentachloroethane	2432	6044	35239	134662	412506	787242	1527981	WLINR	0.007	2.03		0.997	
1,2,4-Trimethylbenzene	1.82	1.80	2.29	1.92	2.49	2.29	2.18	AVRG		2.11		12.7	
sec-Butylbenzene	2.27	2.11	2.65	2.25	2.85	2.68	2.53	AVRG		2.48		11.0	
p-Isopropyltoluene	0.525	0.481	0.636	0.541	0.709	0.665	0.632	AVRG		0.598		13.9	
1,3-Dichlorobenzene	1.10	1.26	1.40	1.17	1.50	1.41	1.37	AVRG		1.31		11.1	
1,4-Dichlorobenzene	1.30	1.25	1.40	1.18	1.51	1.41	1.37	AVRG		1.35		8.22	
Benzyl Chloride	1342	3415	21121	82200	265568	518251	1036652	WLINR	0.011	3.05		0.997	
n-Butylbenzene	0.521	0.467	0.601	0.485	0.638	0.598	0.567	AVRG		0.554		11.6	
Hexachloroethane	2789	5536	31171	122695	390419	757185	1477423	WLINR	0.007	2.11		0.997	
1,2-Dichlorobenzene	1.19	1.14	1.34	1.13	1.46	1.35	1.32	AVRG		1.27		9.77	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240625 23-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:40 **ICAL End Date** 25-JUN-2024 13:39 ICAL Summary Page 10 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,2-Dibromo-3-chloropropane	0.164	0.135	0.163	0.146	0.202	0.189	0.192	AVRG		0.170		14.7	
Nitrobenzene	2594	5139	30738	159542	604810	1236974	2644208	QUAD	-0.050	0.075	0.000	0.999	
Hexachlorobutadiene	0.442	0.428	0.479	0.384	0.488	0.444	0.404	AVRG		0.438		8.57	
120 1,3-Dichloropropene, Total	9899	21115	129282	509526	1541051	2932569	5756907	WLINR	0.017	0.929		0.998	
1,2,4-Trichlorobenzene	0.837	0.727	0.934	0.778	1.03	0.958	0.907	AVRG		0.882		12.2	
121 Total Xylenes	0.904	0.903	1.09	1.00	1.25	1.17	1.16	AVRG		1.07		12.7	
Naphthalene	14513	27574	166588	670976	2085245	3980034	7683598	WLINR	0.007	0.402		0.997	
1,2,3-Trichlorobenzene	0.826	0.718	0.858	0.775	1.04	0.967	0.929	AVRG		0.873		12.8	
41 Dibromofluoromethane	0.285	0.297	0.294	0.303	0.296	0.292	0.297	AVRG		0.295		1.87	
51 1,2-Dichloroethane-d4	0.381	0.391	0.382	0.381	0.380	0.362	0.365	AVRG		0.377		2.72	
68 Toluene-d8	2.41	2.36	2.41	2.43	2.42	2.35	2.36	AVRG		2.39		1.39	
92 4-Bromofluorobenzene	0.872	0.809	0.939	0.845	0.879	0.871	0.860	AVRG		0.868		4.53	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

Instrument ID MS25
ICAL Start Date 25-JUN-2024 1103
ICAL End Date 25-JUN-2024 1305

Calibration Files

Level1 - 25240625.b\2524062504.D
Level2 - 25240625.b\2524062505.D
Level3 - 25240625.b\2524062506.D
Level4 - 25240625.b\2524062507.D
Level5 - 25240625.b\2524062508.D
Level6 - 25240625.b\2524062509.D
Level8 - 25240625.b\2524062503.D

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	0.405 0.265	0.329	0.304	0.329	0.359	0.333	AVRG		0.332		13.1	
Chloromethane	7701 10647	52986	186575	540092	1078871	2190978	WLINR	-0.004	3.46		0.999	
Vinyl Chloride	0.463 0.320	0.373	0.339	0.372	0.397	0.363	AVRG		0.375		12.3	
Bromomethane	6439 8135	37472	128221	348305	683038	1305713	WLINR	-0.015	5.62		0.998	
Chloroethane	7553 12457	49249	167849	473353	939865	1905246	WLINR	-0.010	3.97		0.999	
Pentane	13487 17356	50203	154298	429548	877950	1732989	WLINR	-0.035	4.37		0.998	
Trichlorofluoromethane	0.609 0.448	0.522	0.475	0.508	0.542	0.494	AVRG		0.514		10.1	
Dichlorofluoromethane	0.413 0.405	0.507	0.458	0.513	0.535	0.499	AVRG		0.476		10.8	
Ethyl Ether	0.128 0.122	0.144	0.145	0.157	0.162	0.155	AVRG		0.145		10.3	
1,1-Dichloroethene	0.259 0.260	0.297	0.272	0.302	0.325	0.306	AVRG		0.289		8.83	

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Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 2 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Freon 113	0.174 0.182	0.216	0.188	0.213	0.232	0.216	AVRG		0.203		10.6	
Carbon Disulfide	0.587 0.536	0.603	0.575	0.670	0.715	0.672	AVRG		0.623		10.3	
Iodomethane	1008 2132	12856	55931	202377	423659	874390	WLINR	0.017	8.85		0.993	
Acrolein	0.048 0.040	0.046	0.044	0.049	0.051	0.049	AVRG		0.047		8.35	
Isopropyl Alcohol	3328 4784	13242	48509	143259	289391	563852	WLINR	-0.106	66.6		0.997	
3-Chloro-1-propene	3005 7346	45996	163615	502818	973704	1831594	WLINR	0.006	3.96		0.996	
Methylene Chloride	0.204 0.223	0.246	0.226	0.251	0.257	0.243	AVRG		0.236		7.97	
Acetone	0.027 0.028	0.025	0.024	0.026	0.027	0.025	AVRG		0.026		5.46	
Methyl acetate	2035 2657	9079	35525	106383	195422	401646	WLINR	-0.014	18.8		0.999	
trans-1,2-Dichloroethene	0.243 0.256	0.288	0.267	0.307	0.320	0.297	AVRG		0.283		9.97	
Hexane	15367 20884	86426	304896	870351	1762469	3534639	WLINR	-0.010	2.14		0.998	
Methyl t-Butyl Ether	9076 19555	120315	466744	1393184	2707334	5465615	WLINR	0.008	1.37		0.999	

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Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 3 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
tert.- Butyl Alcohol	0.023 0.024	0.024	0.026	0.028	0.030	0.027	AVRG		0.026		9.72	
Acetonitrile	0.027 0.025	0.030	0.028	0.032	0.033	0.030	AVRG		0.029		9.61	
Diisopropyl ether	0.517 0.556	0.644	0.607	0.687	0.708	0.671	AVRG		0.627		11.2	
Chloroprene	0.270 0.264	0.311	0.307	0.352	0.368	0.354	AVRG		0.318		13.0	
1,1-Dichloroethane	0.324 0.332	0.404	0.365	0.421	0.436	0.414	AVRG		0.385		11.7	
Acrylonitrile	0.080 0.083	0.103	0.099	0.112	0.117	0.109	AVRG		0.100		14.2	
Ethyl tert-butyl ether	0.536 0.551	0.665	0.658	0.739	0.774	0.740	AVRG		0.666		14.0	
n-Propanol	0.014 0.012	0.012	0.011	0.012	0.013	0.012	AVRG		0.012		8.23	
Vinyl Acetate	715 1240	9677	38506	126310	244750	502264	WLINR	0.013	15.1		0.998	
cis-1,2-Dichloroethene	0.243 0.251	0.294	0.281	0.310	0.322	0.305	AVRG		0.287		10.5	
2,2-Dichloropropane	0.278 0.270	0.309	0.290	0.326	0.348	0.326	AVRG		0.307		9.34	
Bromochloromethane	0.100 0.098	0.128	0.124	0.141	0.142	0.132	AVRG		0.124		14.4	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 4 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Cyclohexane	0.329 0.306	0.344	0.316	0.354	0.389	0.369	AVRG		0.344		8.51	
Chloroform	0.360 0.344	0.430	0.401	0.451	0.476	0.447	AVRG		0.416		11.8	
Ethyl Acetate	6710 8670	42053	158992	472909	938737	1869543	WLINR	-0.003	4.02		0.998	
Methyl acrylate	0.213 0.191	0.223	0.224	0.250	0.265	0.249	AVRG		0.231		11.0	
Carbon Tetrachloride	2612 6249	45979	178993	556541	1141242	2364065	WLINR	0.014	3.24		0.997	
Tetrahydrofuran	0.069 0.063	0.068	0.066	0.075	0.078	0.074	AVRG		0.071		7.34	
1,1,1-Trichloroethane	0.253 0.278	0.325	0.318	0.355	0.376	0.359	AVRG		0.324		13.9	
2-Butanone	0.031 0.031	0.034	0.033	0.036	0.038	0.036	AVRG		0.034		7.73	
1,1-Dichloropropene	0.280 0.252	0.316	0.290	0.331	0.346	0.327	AVRG		0.306		10.9	
1-Chlorobutane	0.234 0.167	0.199	0.175	0.197	0.210	0.197	AVRG		0.197		11.3	
Heptane	0.195 0.160	0.183	0.158	0.175	0.194	0.179	AVRG		0.178		8.30	
Benzene	0.945 0.864	0.948	0.879	0.978	1.01	0.958	AVRG		0.941		5.62	

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Client ALS Houston
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Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 5 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Propionitrile	0.030 0.035	0.037	0.037	0.042	0.043	0.041	AVRG		0.038		12.3	
Methacrylonitrile	0.114 0.085	0.106	0.111	0.125	0.130	0.125	AVRG		0.114		13.5	
tert-Amyl methyl ether	0.545 0.560	0.620	0.624	0.711	0.739	0.703	AVRG		0.643		11.8	
Isobutyl alcohol	394 1830	7621	34403	96464	211992	461252	WLINR	0.134	171		0.995	
1,2-Dichloroethane	0.291 0.272	0.298	0.275	0.315	0.318	0.301	AVRG		0.296		6.04	
tert-Amyl Alcohol	0.018 0.021	0.017	0.019	0.021	0.022	0.022	AVRG		0.020		10.2	
Diisobutylene	44441 50206	125872	376363	1061231	2168082	4304948	WLINR	-0.050	1.77		0.997	
Trichloroethene	0.246 0.210	0.231	0.215	0.254	0.260	0.251	AVRG		0.238		8.37	
Methyl cyclohexane	0.936 0.905	0.978	0.920	1.01	1.06	1.01	AVRG		0.973		5.67	
tert-Amyl Ethylether	7238 14413	87789	354280	1054026	2075694	4280148	WLINR	0.009	1.77		0.999	
Dibromomethane	0.130 0.125	0.145	0.149	0.166	0.172	0.166	AVRG		0.151		12.2	
1,2-Dichloropropane	0.194 0.200	0.226	0.217	0.245	0.257	0.245	AVRG		0.226		10.6	

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Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 6 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	3592	7191	47880	189702	593498	1172803	2408792	WLINR	0.011	3.15		0.998	
Methyl methacrylate	0.136	0.162	0.172	0.171	0.197	0.213	0.203	AVRG		0.179		14.8	
1,4-Dioxane	0.004	0.003	0.004	0.003	0.004	0.004	0.003	AVRG		0.004		8.24	
2-Chloroethylvinyl ether	1903	3719	23423	95250	300617	612756	1290655	WLINR	0.012	5.99		0.997	
cis-1,3-Dichloropropene	4396	10566	57636	247573	767185	1499905	3091062	WLINR	0.009	0.980		0.999	
Octane	0.381	0.308	0.356	0.362	0.384	0.410	0.381	AVRG		0.369		8.64	
Toluene	1.73	1.41	1.46	1.37	1.56	1.55	1.47	AVRG		1.51		7.88	
Chloroacetonitrile	0.037	0.030	0.033	0.035	0.044	0.044	0.040	AVRG		0.038		13.5	
2-Nitropropane	3617	7049	42330	186383	593939	1224339	2564073	WLINR	0.062	6.01		0.997	
1,1-Dichloro-2-Propanone	307	649	4269	18693	56995	120735	244954	WLINR	0.065	62.2		0.997	
4-Methyl-2-Pentanone(MIBK)	15196	29113	187763	770302	2330999	4540988	8734882	WLINR	0.034	1.68		0.997	
trans-1,3-Dichloropropene	4340	8929	54063	223814	694418	1390540	2883334	WLINR	0.010	1.06		0.998	

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Client ALS Houston
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Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 7 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Tetrachloroethene	0.500	0.491	0.554	0.529	0.591	0.602	0.571	AVRG		0.548		7.93	
Ethyl Methacrylate	3766	8256	51147	223797	687236	1354483	2747208	WLINR	0.011	1.10		0.998	
1,1,2-Trichloroethane	0.376	0.441	0.466	0.457	0.514	0.508	0.476	AVRG		0.463		9.98	
Chlorodibromomethane	2392	5551	36996	154197	487189	980105	2002816	WLINR	0.012	1.51		0.998	
1,3-Dichloropropane	0.755	0.805	0.901	0.922	1.03	1.03	0.959	AVRG		0.914		11.4	
1,2-Dibromoethane	2751	6550	39025	153645	464742	921715	1854429	WLINR	0.008	1.62		0.999	
2-Hexanone	9727	21128	125367	515146	1586898	3096661	6043549	WLINR	0.037	2.44		0.997	
1-Chlorohexane	0.765	0.588	0.806	0.753	0.876	0.906	0.850	AVRG		0.792		13.4	
Chlorobenzene	1.35	1.32	1.54	1.50	1.69	1.71	1.63	AVRG		1.53		10.1	
Ethylbenzene	9240	13774	58271	219414	661770	1327438	2724522	WLINR	-0.004	1.12		0.999	
1,1,1,2-Tetrachloroethane	2323	4988	34773	142310	438151	867838	1749666	WLINR	0.011	1.72		0.998	
mp-Xylene	30052	36347	154227	535925	1603689	3168696	6367993	WLINR	-0.026	0.946		0.998	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 8 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
o-Xylene	1.26	0.946	0.920	0.903	1.05	1.06	1.00	AVRG		1.02		12.1	
Styrene	7432	15866	91709	391500	1227060	2454318	4976988	WLINR	0.010	0.560		0.998	
Bromoform	2337	3823	22861	102722	330003	690099	1437569	WLINR	0.012	1.98		0.996	
Isopropylbenzene	13069	26101	150199	566222	1751429	3465736	6796201	WLINR	0.005	0.403		0.999	
100 1,2-Dichloroethene, Total	0.243	0.253	0.291	0.274	0.309	0.321	0.301	AVRG		0.285		10.2	
Bromobenzene	0.641	0.641	0.707	0.668	0.747	0.787	0.773	AVRG		0.709		8.66	
n-Propylbenzene	0.744	0.602	0.698	0.672	0.764	0.805	0.793	AVRG		0.725		10.0	
1,1,2,2-Tetrachloroethane	0.581	0.580	0.693	0.706	0.776	0.804	0.795	AVRG		0.705		13.5	
o-Chlorotoluene	1.71	1.69	1.90	1.81	2.02	2.13	2.10	AVRG		1.91		9.40	
1,3,5-Trimethylbenzene	2.01	1.77	1.95	1.88	2.11	2.24	2.17	AVRG		2.02		8.23	
1,2,3-Trichloropropane	0.176	0.217	0.232	0.226	0.242	0.253	0.247	AVRG		0.227		11.4	
trans-1,4-Dichloro-2-butene	1054	1628	11562	47099	149889	297095	609147	WLINR	0.010	4.60		0.998	

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Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 9 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
p-Chlorotoluene	1.61 1.47	1.74	1.66	1.85	1.91	1.87	AVRG		1.73		9.23	
tert-Butylbenzene	0.416 0.378	0.501	0.481	0.528	0.544	0.531	AVRG		0.483		13.1	
Pentachloroethane	2125 4178	25931	104294	332675	667170	1367796	WLINR	0.010	2.05		0.998	
1,2,4-Trimethylbenzene	20714 27718	132392	488792	1510193	2964649	5884390	WLINR	-0.005	0.469		0.999	
sec-Butylbenzene	2.25 2.04	2.55	2.43	2.70	2.82	2.66	AVRG		2.49		11.0	
p-Isopropyltoluene	0.480 0.478	0.583	0.554	0.617	0.655	0.632	AVRG		0.571		12.4	
1,3-Dichlorobenzene	1.00 1.10	1.20	1.14	1.28	1.33	1.31	AVRG		1.19		10.0	
1,4-Dichlorobenzene	1.18 1.12	1.22	1.17	1.32	1.37	1.36	AVRG		1.25		8.19	
Benzyl Chloride	736 2620	12513	59767	194577	405519	867235	WLINR	0.016	3.32		0.994	
n-Butylbenzene	0.592 0.451	0.496	0.485	0.550	0.585	0.577	AVRG		0.534		10.5	
Hexachloroethane	1752 3087	20694	85914	284589	590317	1225691	WLINR	0.013	2.32		0.996	
1,2-Dichlorobenzene	0.945 1.03	1.12	1.10	1.22	1.27	1.27	AVRG		1.14		11.0	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 10 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,2-Dibromo-3-chloropropane	380 1191	6452	27852	86909	187226	386483	WLINR	0.014	7.36		0.996	
Nitrobenzene	1713 3058	15593	74725	289112	699975	1663438	QUAD	0.000e+000	0.039	0.000	0.999	
Hexachlorobutadiene	1952 2971	21249	82540	257277	520622	1058167	WLINR	0.008	2.64		0.998	
120 1,3-Dichloropropene, Total	8736 19495	111699	471387	1461603	2890445	5974396	WLINR	0.019	1.02		0.999	
1,2,4-Trichlorobenzene	0.674 0.641	0.693	0.697	0.816	0.878	0.878	AVRG		0.754		13.3	
121 Total Xylenes	38742 49625	219745	785145	2376968	4684805	9434263	WLINR	-0.027	0.958		0.998	
Naphthalene	10056 18088	109460	463248	1514181	3095315	6235557	WLINR	0.011	0.448		0.997	
1,2,3-Trichlorobenzene	3948 7150	45198	178753	573042	1155326	2411703	WLINR	0.010	1.17		0.997	
41 Dibromofluoromethane	0.230 0.233	0.243	0.235	0.237	0.242	0.236	AVRG		0.237		2.04	
51 1,2-Dichloroethane-d4	0.258 0.252	0.264	0.250	0.241	0.250	0.232	AVRG		0.250		4.18	
68 Toluene-d8	2.47 2.39	2.46	2.43	2.35	2.34	2.19	AVRG		2.38		4.06	
92 4-Bromofluorobenzene	0.858 0.818	0.847	0.853	0.782	0.857	0.795	AVRG		0.830		3.81	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 23240625_2324062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2324062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1539

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	20.0	20.0	99.8	80-120	
Chloromethane	20.0	18.3	91.6	80-120	
Vinyl Chloride	20.0	19.9	99.4	80-120	
Bromomethane	20.0	17.5	87.6	80-120	
Chloroethane	20.0	20.3	102	80-120	
Pentane	20.0	17.1	85.4	80-120	
Trichlorofluoromethane	20.0	19.3	96.5	80-120	
Dichlorofluoromethane	20.0	21.9	110	80-120	
Ethyl Ether	20.0	22.5	112	80-120	
1,1-Dichloroethene	20.0	22.0	110	80-120	
Freon 113	20.0	21.7	108	80-120	
Carbon Disulfide	20.0	21.2	106	80-120	
Iodomethane	20.0	16.9	84.6	80-120	
Acrolein	150	169	113	80-120	
Isopropyl Alcohol	100	101	101	80-120	
3-Chloro-1-propene	20.0	21.5	108	80-120	
Methylene Chloride	20.0	22.5	113	80-120	
Acetone	100	116	116	80-120	
Methyl acetate	20.0	20.6	103	80-120	
trans-1,2-Dichloroethene	20.0	21.5	107	80-120	
Hexane	20.0	19.5	97.3	80-120	
Methyl t-Butyl Ether	20.0	23.0	115	80-120	
tert.- Butyl Alcohol	100	110	110	80-120	
Acetonitrile	100	113	113	80-120	
Diisopropyl ether	20.0	22.5	112	80-120	
Chloroprene	20.0	16.1	80.3	80-120	
1,1-Dichloroethane	20.0	20.1	101	80-120	
Acrylonitrile	100	97.2	97.2	80-120	
Ethyl tert-butyl ether	20.0	21.2	106	80-120	
n-Propanol	200	231	116	80-120	
Vinyl acetate	20.0	19.4	96.8	80-120	
cis-1,2-Dichloroethene	20.0	21.9	109	80-120	
2,2-Dichloropropane	20.0	19.7	98.7	80-120	
Bromochloromethane	20.0	22.5	112	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 23240625_2324062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2324062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1539

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	20.0	21.8	109	80-120	
Chloroform	20.0	21.7	108	80-120	
Ethyl acetate	20.0	21.7	109	80-120	
Methyl acrylate	20.0	20.7	104	80-120	
Carbon Tetrachloride	20.0	19.4	96.9	80-120	
Tetrahydrofuran	100	111	111	80-120	
1,1,1-Trichloroethane	20.0	22.1	110	80-120	
2-Butanone	100	110	110	80-120	
1,1-Dichloropropene	20.0	21.4	107	80-120	
1-Chlorobutane	20.0	20.9	105	80-120	
Heptane	20.0	19.3	96.3	80-120	
Benzene	20.0	21.8	109	80-120	
Propionitrile	100	99.5	99.5	80-120	
Methacrylonitrile	20.0	22.5	112	80-120	
tert-amyl methyl E	20.0	21.3	107	80-120	
1,2-Dichloroethane	20.0	22.0	110	80-120	
tert-Amyl Alcohol	100	106	106	80-120	
Isobutyl alcohol	200	172	86.2	80-120	
Diisobutylene	20.0	19.6	98.1	80-120	
Trichloroethene	20.0	20.9	105	80-120	
Methyl cyclohexane	20.0	21.6	108	80-120	
tert-Amyl Ethylether	20.0	21.5	108	80-120	
Dibromomethane	20.0	22.2	111	80-120	
1,2-Dichloropropane	20.0	22.5	113	80-120	
Bromodichloromethane	20.0	22.8	114	80-120	
Methyl methacrylate	20.0	20.1	101	80-120	
1,4-Dioxane	500	0.000		80-120	*
2-Chloroethylvinyl ether	20.0	16.0	80.0	80-120	
cis-1,3-Dichloropropene	20.0	20.2	101	80-120	
Octane	20.0	19.9	99.4	80-120	
Toluene	20.0	21.4	107	80-120	
Chloroacetonitrile	100	97.9	97.9	80-120	
2-Nitropropane	100	96.9	96.9	80-120	
1,1-Dichloro-2-pro	100	109	109	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 23240625_2324062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2324062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1539

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	100	106	106	80-120	
Tetrachloroethene	20.0	21.6	108	80-120	
trans-1,3-Dichloropropene	20.0	20.7	103	80-120	
Ethyl methacrylate	20.0	20.6	103	80-120	
1,1,2-Trichloroethane	20.0	23.0	115	80-120	
Chlorodibromomethane	20.0	19.8	99.1	80-120	
1,3-Dichloropropane	20.0	22.6	113	80-120	
1,2-Dibromoethane	20.0	22.5	113	80-120	
2-Hexanone	100	102	102	80-120	
1-Chlorohexane	20.0	21.9	109	80-120	
Chlorobenzene	20.0	22.2	111	80-120	
Ethylbenzene	20.0	22.0	110	80-120	
1,1,1,2-Tetrachloroethane	20.0	22.9	114	80-120	
mp-Xylene	40.0	44.2	110	80-120	
o-Xylene	20.0	22.5	112	80-120	
Styrene	20.0	21.6	108	80-120	
Bromoform	20.0	20.7	103	80-120	
Isopropylbenzene	20.0	23.2	116	80-120	
Bromobenzene	20.0	22.2	111	80-120	
n-Propylbenzene	20.0	21.1	106	80-120	
1,1,2,2-Tetrachloroethane	20.0	23.3	117	80-120	
o-Chlorotoluene	20.0	22.6	113	80-120	
1,3,5-Trimethylbenzene	20.0	22.9	114	80-120	
1,2,3-Trichloropropane	20.0	23.0	115	80-120	
trans-1,4-Dichloro-2-butene	20.0	19.8	98.8	80-120	
1,2-Dichloroethene, Total	40.0	43.4	108	80-120	
p-Chlorotoluene	20.0	22.2	111	80-120	
tert-Butylbenzene	20.0	22.6	113	80-120	
Pentachloroethane	20.0	19.5	97.7	80-120	
1,2,4-Trimethylbenzene	20.0	22.6	113	80-120	
sec-Butylbenzene	20.0	22.4	112	80-120	
p-Isopropyltoluene	20.0	22.4	112	80-120	
1,3-Dichlorobenzene	20.0	21.9	110	80-120	
1,4-Dichlorobenzene	20.0	22.0	110	80-120	

Form 6I Initial Calibration Verification (ICV)

Client	ALS Houston	Workorder	
Project	AHH132|HS24060985	**3366028**	

8260D

RunID: **23240625_2324062515ICVQ.D**

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	ICVQ		
Data Type	MS DATA	**SampleType**	ICV
File ID	2324062515ICVQ.D	**Inj Date**	25-JUN-2024 1539

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	20.0	17.4	87.2	80-120	
n-Butylbenzene	20.0	21.4	107	80-120	
Hexachloroethane	20.0	20.1	100	80-120	
1,2-Dichlorobenzene	20.0	21.9	110	80-120	
1,2-Dibromo-3-chloropropane	20.0	21.2	106	80-120	
Nitrobenzene	200	187	93.7	80-120	
Hexachlorobutadiene	20.0	21.6	108	80-120	
1,2,4-Trichlorobenzene	20.0	24.0	120	80-120	
Naphthalene	20.0	21.7	108	80-120	
1,2,3-Trichlorobenzene	20.0	22.4	112	80-120	
1,3-Dichloropropene, Total	40.0	40.8	102	80-120	
121 TOTAL XYLENES	60.0	66.7	111	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	20.0	20.7	103	80-120	
Chloromethane	20.0	19.5	97.7	80-120	
Vinyl Chloride	20.0	20.4	102	80-120	
Bromomethane	20.0	20.3	102	80-120	
Chloroethane	20.0	21.2	106	80-120	
Pentane	20.0	20.7	104	80-120	
Trichlorofluoromethane	20.0	20.4	102	80-120	
Dichlorofluoromethane	20.0	23.2	116	80-120	
Ethyl Ether	20.0	21.6	108	80-120	
1,1-Dichloroethene	20.0	22.8	114	80-120	
Freon 113	20.0	22.8	114	80-120	
Carbon Disulfide	20.0	21.7	108	80-120	
Iodomethane	20.0	16.8	84.0	80-120	
Acrolein	150	159	106	80-120	
Isopropyl Alcohol	100	103	103	80-120	
3-Chloro-1-propene	20.0	22.9	115	80-120	
Methylene Chloride	20.0	22.3	111	80-120	
Acetone	100	107	107	80-120	
Methyl acetate	20.0	21.2	106	80-120	
trans-1,2-Dichloroethene	20.0	23.0	115	80-120	
Hexane	20.0	20.9	105	80-120	
Methyl t-Butyl Ether	20.0	20.7	103	80-120	
tert.- Butyl Alcohol	100	112	112	80-120	
Acetonitrile	100	111	111	80-120	
Diisopropyl ether	20.0	22.5	113	80-120	
Chloroprene	20.0	22.9	114	80-120	
1,1-Dichloroethane	20.0	22.6	113	80-120	
Acrylonitrile	100	114	114	80-120	
Ethyl tert-butyl ether	20.0	23.2	116	80-120	
n-Propanol	200	208	104	80-120	
Vinyl acetate	20.0	18.9	94.5	80-120	
cis-1,2-Dichloroethene	20.0	22.6	113	80-120	
2,2-Dichloropropane	20.0	20.5	103	80-120	
Bromochloromethane	20.0	23.4	117	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	20.0	22.6	113	80-120	
Chloroform	20.0	22.8	114	80-120	
Ethyl acetate	20.0	20.0	99.9	80-120	
Methyl acrylate	20.0	22.6	113	80-120	
Carbon Tetrachloride	20.0	19.7	98.3	80-120	
Tetrahydrofuran	100	106	106	80-120	
1,1,1-Trichloroethane	20.0	23.6	118	80-120	
2-Butanone	100	110	110	80-120	
1,1-Dichloropropene	20.0	22.3	112	80-120	
1-Chlorobutane	20.0	21.5	107	80-120	
Heptane	20.0	20.9	104	80-120	
Benzene	20.0	21.5	108	80-120	
Propionitrile	100	111	111	80-120	
Methacrylonitrile	20.0	22.2	111	80-120	
tert-amyl methyl E	20.0	23.0	115	80-120	
1,2-Dichloroethane	20.0	21.8	109	80-120	
tert-Amyl Alcohol	100	114	114	80-120	
Isobutyl alcohol	200	164	81.8	80-120	
Diisobutylene	20.0	20.4	102	80-120	
Trichloroethene	20.0	21.8	109	80-120	
Methyl cyclohexane	20.0	21.9	110	80-120	
tert-Amyl Ethylether	20.0	19.7	98.5	80-120	
Dibromomethane	20.0	22.3	112	80-120	
1,2-Dichloropropane	20.0	22.4	112	80-120	
Bromodichloromethane	20.0	20.4	102	80-120	
Methyl methacrylate	20.0	22.0	110	80-120	
1,4-Dioxane	500	0.000		80-120	*
2-Chloroethylvinyl ether	20.0	19.9	99.7	80-120	
cis-1,3-Dichloropropene	20.0	19.6	98.0	80-120	
Octane	20.0	22.0	110	80-120	
Toluene	20.0	21.0	105	80-120	
Chloroacetonitrile	100	117	117	80-120	
2-Nitropropane	100	93.1	93.1	80-120	
1,1-Dichloro-2-pro	100	97.1	97.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	100	110	110	80-120	
Tetrachloroethene	20.0	22.0	110	80-120	
trans-1,3-Dichloropropene	20.0	20.0	100	80-120	
Ethyl methacrylate	20.0	19.8	99.0	80-120	
1,1,2-Trichloroethane	20.0	22.3	111	80-120	
Chlorodibromomethane	20.0	19.4	97.2	80-120	
1,3-Dichloropropane	20.0	22.8	114	80-120	
1,2-Dibromoethane	20.0	20.1	101	80-120	
2-Hexanone	100	108	108	80-120	
1-Chlorohexane	20.0	22.6	113	80-120	
Chlorobenzene	20.0	21.9	110	80-120	
Ethylbenzene	20.0	20.9	104	80-120	
1,1,1,2-Tetrachloroethane	20.0	20.2	101	80-120	
mp-Xylene	40.0	41.2	103	80-120	
o-Xylene	20.0	20.3	102	80-120	
Styrene	20.0	21.1	106	80-120	
Bromoform	20.0	18.5	92.7	80-120	
Isopropylbenzene	20.0	23.7	119	80-120	
Bromobenzene	20.0	21.4	107	80-120	
n-Propylbenzene	20.0	21.8	109	80-120	
1,1,2,2-Tetrachloroethane	20.0	22.5	112	80-120	
o-Chlorotoluene	20.0	21.9	109	80-120	
1,3,5-Trimethylbenzene	20.0	21.6	108	80-120	
1,2,3-Trichloropropane	20.0	22.1	110	80-120	
trans-1,4-Dichloro-2-butene	20.0	19.7	98.7	80-120	
1,2-Dichloroethene, Total	40.0	45.5	114	80-120	
p-Chlorotoluene	20.0	22.1	110	80-120	
tert-Butylbenzene	20.0	22.7	113	80-120	
Pentachloroethane	20.0	17.9	89.4	80-120	
1,2,4-Trimethylbenzene	20.0	20.6	103	80-120	
sec-Butylbenzene	20.0	22.8	114	80-120	
p-Isopropyltoluene	20.0	21.9	110	80-120	
1,3-Dichlorobenzene	20.0	22.3	112	80-120	
1,4-Dichlorobenzene	20.0	21.9	109	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240625_2524062515ICVQ.D

8260D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	20.0	16.0	80.2	80-120	
n-Butylbenzene	20.0	21.4	107	80-120	
Hexachloroethane	20.0	18.6	93.2	80-120	
1,2-Dichlorobenzene	20.0	22.3	112	80-120	
1,2-Dibromo-3-chloropropane	20.0	18.2	91.2	80-120	
Nitrobenzene	200	166	82.9	80-120	
Hexachlorobutadiene	20.0	21.0	105	80-120	
1,2,4-Trichlorobenzene	20.0	23.4	117	80-120	
Naphthalene	20.0	19.8	99.1	80-120	
1,2,3-Trichlorobenzene	20.0	19.3	96.6	80-120	
1,3-Dichloropropene, Total	40.0	39.6	99.1	80-120	
121 TOTAL XYLENES	60.0	61.5	103	80-120	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062701.D

Volatiles by EPA 8260D

Instrument ID ms23.i
Lab File ID 2324062701.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 27-JUN-2024 0844
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:40, 13:39
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.440	0.422	0.422	0.010	-4.018	20.0	Averaged	
Chloromethane	0.269	0.261	0.261	0.100	-2.886	20.0	Averaged	
Vinyl Chloride	0.265	0.270	0.270	0.010	2.08	20.0	Averaged	
Bromomethane	50.0	48.8	5.12	0.010	-2.469	20.0	Wt Linear	
Chloroethane	0.146	0.158	0.158	0.010	8.27	20.0	Averaged	
Pentane	0.178	0.165	0.165	0.010	-7.165	20.0	Averaged	
Trichlorofluoromethane	0.564	0.549	0.549	0.010	-2.599	20.0	Averaged	
Dichlorofluoromethane	0.476	0.503	0.503	0.010	5.63	20.0	Averaged	
Ethyl Ether	0.149	0.155	0.155	0.010	4.31	20.0	Averaged	
1,1-Dichloroethene	0.336	0.338	0.338	0.010	0.669	20.0	Averaged	
Freon 113	0.229	0.236	0.236	0.010	3.01	20.0	Averaged	
Carbon Disulfide	0.652	0.671	0.671	0.010	2.86	20.0	Averaged	
Iodomethane	50.0	51.8	7.07	0.010	3.64	20.0	Quadratic	
Acrolein	0.042	0.044	0.044	0.000	4.51	20.0	Averaged	
Isopropyl Alcohol	250	211	67.8	0.000	-15.523	20.0	Wt Linear	
3-Chloro-1-propene	50.0	49.9	3.91	0.010	-0.234	20.0	Wt Linear	
Methylene Chloride	0.244	0.256	0.256	0.010	5.01	20.0	Averaged	
Acetone	0.022	0.022	0.022	0.000	-0.120	20.0	Averaged	
Methyl acetate	0.057	0.049	0.049	0.005	-13.795	20.0	Averaged	
trans-1,2-Dichloroethene	0.308	0.323	0.323	0.010	4.90	20.0	Averaged	
Hexane	0.457	0.435	0.435	0.010	-4.767	20.0	Averaged	
Methyl t-Butyl Ether	0.823	0.871	0.871	0.010	5.86	20.0	Averaged	
tert.- Butyl Alcohol	0.034	0.035	0.035	0.000	1.76	20.0	Averaged	
Acetonitrile	0.026	0.025	0.025	0.000	-1.889	20.0	Averaged	
Diisopropyl ether	0.569	0.611	0.611	0.010	7.29	20.0	Averaged	
Chloroprene	50.0	48.7	2.59	0.010	-2.667	20.0	Wt Linear	
1,1-Dichloroethane	50.0	48.6	2.35	0.100	-2.718	20.0	Wt Linear	
Acrylonitrile	250	222	9.92	0.000	-11.197	20.0	Wt Linear	
Ethyl tert-butyl ether	50.0	48.5	1.26	0.010	-3.037	20.0	Wt Linear	
n-Propanol	0.013	0.014	0.014	0.000	5.53	20.0	Averaged	
Vinyl Acetate	50.0	48.1	14.2	0.010	-3.877	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.319	0.336	0.336	0.010	5.53	20.0	Averaged	
2,2-Dichloropropane	0.421	0.478	0.478	0.010	13.7	20.0	Averaged	
Bromochloromethane	0.154	0.164	0.164	0.010	6.75	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062701.D

Volatiles by EPA 8260D

Instrument ID ms23.i
Lab File ID 2324062701.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 27-JUN-2024 0844
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:40, 13:39
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Cyclohexane	0.358	0.365	0.365	0.010	1.95	20.0	Averaged	
Chloroform	0.535	0.546	0.546	0.010	2.04	20.0	Averaged	
Ethyl Acetate	0.235	0.240	0.240	0.010	1.88	20.0	Averaged	
Methyl acrylate	50.0	46.8	4.27	0.010	-6.389	20.0	Wt Linear	
Carbon Tetrachloride	50.0	47.3	2.18	0.010	-5.325	20.0	Wt Linear	
41 Dibromofluoromethane	0.295	0.291	0.291	0.010	-1.335	20.0	Averaged	
Tetrahydrofuran	0.062	0.062	0.062	0.000	-0.724	20.0	Averaged	
1,1,1-Trichloroethane	0.489	0.501	0.501	0.010	2.54	20.0	Averaged	
2-Butanone	0.035	0.035	0.035	0.000	2.58	20.0	Averaged	
1,1-Dichloropropene	0.348	0.366	0.366	0.010	5.18	20.0	Averaged	
1-Chlorobutane	0.226	0.227	0.227	0.010	0.566	20.0	Averaged	
Heptane	0.161	0.169	0.169	0.000	5.27	20.0	Averaged	
Benzene	0.913	0.958	0.958	0.010	4.93	20.0	Averaged	
Propionitrile	250	236	26.1	0.000	-5.540	20.0	Wt Linear	
Methacrylonitrile	0.112	0.113	0.113	0.010	1.02	20.0	Averaged	
tert-Amyl methyl ether	50.0	48.8	1.23	0.010	-2.335	20.0	Wt Linear	
Isobutyl alcohol	500	460	160	0.000	-8.024	20.0	Quadratic	
51 1,2-Dichloroethane-d4	0.377	0.363	0.363	0.010	-3.875	20.0	Averaged	
1,2-Dichloroethane	0.431	0.440	0.440	0.010	2.12	20.0	Averaged	
tert-Amyl Alcohol	0.026	0.025	0.025	0.002	-0.629	20.0	Averaged	
Diisobutylene	50.0	48.4	2.07	0.010	-3.132	20.0	Wt Linear	
Trichloroethene	0.280	0.283	0.283	0.010	1.16	20.0	Averaged	
Methyl cyclohexane	0.856	0.892	0.892	0.005	4.18	20.0	Averaged	
tert-Amyl Ethylether	0.552	0.596	0.596	0.010	7.96	20.0	Averaged	
Dibromomethane	0.180	0.192	0.192	0.010	6.64	20.0	Averaged	
1,2-Dichloropropane	0.199	0.214	0.214	0.010	7.38	20.0	Averaged	
Bromodichloromethane	0.384	0.410	0.410	0.010	6.84	20.0	Averaged	
Methyl methacrylate	50.0	46.4	4.53	0.010	-7.232	20.0	Wt Linear	
1,4-Dioxane	0.004	0.004	0.004	0.000	2.82	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	43.2	10.3	0.010	-13.619	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	50.4	0.942	0.010	0.708	20.0	Wt Linear	
Octane	0.335	0.398	0.398	0.010	19.0	20.0	Averaged	
68 Toluene-d8	2.39	2.39	2.39	0.010	-0.189	20.0	Averaged	
Toluene	1.47	1.55	1.55	0.010	5.39	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062701.D

Volatiles by EPA 8260D

Instrument ID ms23.i
Lab File ID 2324062701.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 27-JUN-2024 0844
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:40, 13:39
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	250	231	23.5	0.000	-7.504	20.0	Wt Linear	
2-Nitropropane	250	228	4.38	0.005	-8.714	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	0.021	0.020	0.020	0.001	-5.309	20.0	Averaged	
4-Methyl-2-Pentanone(MIBK)	250	243	1.91	0.010	-2.628	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	50.3	0.913	0.010	0.686	20.0	Wt Linear	
Tetrachloroethene	0.638	0.645	0.645	0.010	1.10	20.0	Averaged	
Ethyl Methacrylate	50.0	48.3	1.16	0.010	-3.460	20.0	Wt Linear	
1,1,2-Trichloroethane	0.436	0.465	0.465	0.010	6.73	20.0	Averaged	
Chlorodibromomethane	50.0	47.6	1.19	0.010	-4.793	20.0	Wt Linear	
1,3-Dichloropropane	0.914	0.990	0.990	0.010	8.33	20.0	Averaged	
1,2-Dibromoethane	0.638	0.675	0.675	0.010	5.87	20.0	Averaged	
2-Hexanone	250	238	2.65	0.010	-4.698	20.0	Wt Linear	
1-Chlorohexane	0.766	0.823	0.823	0.010	7.45	20.0	Averaged	
Chlorobenzene	1.69	1.83	1.83	0.300	8.47	20.0	Averaged	
Ethylbenzene	0.888	0.939	0.939	0.010	5.74	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.692	0.751	0.751	0.010	8.63	20.0	Averaged	
mp-Xylene	1.07	1.17	1.17	0.010	8.56	20.0	Averaged	
o-Xylene	1.06	1.16	1.16	0.010	10.1	20.0	Averaged	
Styrene	50.0	51.3	0.580	0.010	2.67	20.0	Wt Linear	
Bromoform	50.0	48.2	1.75	0.100	-3.589	20.0	Wt Linear	
Isopropylbenzene	50.0	50.8	0.413	0.010	1.54	20.0	Wt Linear	
100 1,2-Dichloroethene, Total	0.314	0.330	0.330	0.010	5.22	20.0	Averaged	
92 4-Bromofluorobenzene	0.868	0.853	0.853	0.010	-1.768	20.0	Averaged	
Bromobenzene	0.745	0.784	0.784	0.010	5.27	20.0	Averaged	
n-Propylbenzene	0.706	0.733	0.733	0.010	3.93	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.616	0.659	0.659	0.300	6.98	20.0	Averaged	
o-Chlorotoluene	1.92	2.07	2.07	0.010	7.77	20.0	Averaged	
1,3,5-Trimethylbenzene	2.08	2.28	2.28	0.010	9.37	20.0	Averaged	
1,2,3-Trichloropropane	0.261	0.270	0.270	0.010	3.19	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	48.4	4.23	0.010	-3.252	20.0	Wt Linear	
p-Chlorotoluene	1.78	1.93	1.93	0.010	8.31	20.0	Averaged	
tert-Butylbenzene	0.521	0.552	0.552	0.010	5.92	20.0	Averaged	
Pentachloroethane	50.0	51.9	1.96	0.010	3.80	20.0	Wt Linear	
1,2,4-Trimethylbenzene	2.11	2.31	2.31	0.010	9.11	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062701.D

Volatiles by EPA 8260D

Instrument ID ms23.i
Lab File ID 2324062701.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 27-JUN-2024 0844
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:40, 13:39
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
sec-Butylbenzene	2.48	2.66	2.66	0.010	7.23	20.0	Averaged	
p-Isopropyltoluene	0.598	0.666	0.666	0.010	11.3	20.0	Averaged	
1,3-Dichlorobenzene	1.31	1.41	1.41	0.010	7.09	20.0	Averaged	
1,4-Dichlorobenzene	1.35	1.43	1.43	0.010	6.40	20.0	Averaged	
Benzyl Chloride	50.0	54.2	2.83	0.010	8.46	20.0	Wt Linear	
n-Butylbenzene	0.554	0.600	0.600	0.010	8.37	20.0	Averaged	
Hexachloroethane	50.0	49.1	2.16	0.010	-1.878	20.0	Wt Linear	
1,2-Dichlorobenzene	1.27	1.37	1.37	0.010	7.10	20.0	Averaged	
1,2-Dibromo-3-chloropropane	0.170	0.178	0.178	0.010	4.58	20.0	Averaged	
Nitrobenzene	500	433	15.6	0.000	-13.376	20.0	Quadratic	
Hexachlorobutadiene	0.438	0.453	0.453	0.000	3.36	20.0	Averaged	
120 1,3-Dichloropropene, Total	100	101	0.928	0.010	0.697	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.882	0.968	0.968	0.010	9.71	20.0	Averaged	
121 Total Xylenes	1.07	1.16	1.16	0.010	9.05	20.0	Averaged	
Naphthalene	50.0	49.7	0.406	0.010	-0.526	20.0	Wt Linear	
1,2,3-Trichlorobenzene	0.873	0.953	0.953	0.010	9.23	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062727.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2324062727.D
Fraction VOA
SampleType ENDCCV
Inj Date 27-JUN-2024 1948

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	42.9	85.8	50-150	
Chloromethane	50.0	41.6	83.2	50-150	
Vinyl Chloride	50.0	44.8	89.6	50-150	
Bromomethane	50.0	47.1	94.3	50-150	
Chloroethane	50.0	43.7	87.4	50-150	
Pentane	50.0	22.5	45.1	50-150	*
Trichlorofluoromethane	50.0	45.9	91.8	50-150	
Dichlorofluoromethane	50.0	46.2	92.5	50-150	
Ethyl Ether	50.0	47.0	94.0	50-150	
1,1-Dichloroethene	50.0	42.0	83.9	50-150	
Freon 113	50.0	31.8	63.7	50-150	
Carbon Disulfide	50.0	43.1	86.2	50-150	
Iodomethane	50.0	44.9	89.8	50-150	
Acrolein	250	232	92.9	50-150	
Isopropyl Alcohol	250	215	86.1	50-150	
3-Chloro-1-propene	50.0	43.1	86.2	50-150	
Methylene Chloride	50.0	47.6	95.1	50-150	
Acetone	250	235	94.0	50-150	
Methyl acetate	50.0	40.9	81.7	50-150	
trans-1,2-Dichloroethene	50.0	45.4	90.8	50-150	
Hexane	50.0	30.2	60.5	50-150	
Methyl t-Butyl Ether	50.0	48.8	97.6	50-150	
tert.- Butyl Alcohol	250	229	91.6	50-150	
Acetonitrile	250	233	93.2	50-150	
Diisopropyl ether	50.0	47.3	94.6	50-150	
Chloroprene	50.0	30.6	61.2	50-150	
1,1-Dichloroethane	50.0	42.9	85.7	50-150	
Acrylonitrile	250	220	87.9	50-150	
n-Propanol	500	490	98.1	50-150	
Ethyl tert-butyl ether	50.0	44.3	88.6	50-150	
Vinyl acetate	50.0	44.7	89.4	50-150	
cis-1,2-Dichloroethene	50.0	47.1	94.1	50-150	
2,2-Dichloropropane	50.0	39.6	79.2	50-150	
Bromochloromethane	50.0	49.3	98.7	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062727.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2324062727.D
Fraction VOA
SampleType ENDCCV
Inj Date 27-JUN-2024 1948

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	31.4	62.8	50-150	
Chloroform	50.0	45.9	91.9	50-150	
Ethyl acetate	50.0	47.1	94.3	50-150	
Methyl acrylate	50.0	43.7	87.4	50-150	
Carbon Tetrachloride	50.0	36.7	73.4	50-150	
Tetrahydrofuran	250	234	93.5	50-150	
1,1,1-Trichloroethane	50.0	43.3	86.6	50-150	
2-Butanone	250	231	92.3	50-150	
1,1-Dichloropropene	50.0	40.6	81.2	50-150	
1-Chlorobutane	50.0	39.3	78.6	50-150	
Heptane	50.0	21.9	43.9	50-150	*
Benzene	50.0	45.7	91.4	50-150	
Propionitrile	250	217	86.8	50-150	
Methacrylonitrile	50.0	46.8	93.5	50-150	
tert-amyl methyl E	50.0	44.8	89.6	50-150	
Isobutyl alcohol	500	429	85.9	50-150	
1,2-Dichloroethane	50.0	47.4	94.7	50-150	
tert-Amyl Alcohol	250	226	90.2	50-150	
Diisobutylene	50.0	23.2	46.4	50-150	*
Trichloroethene	50.0	43.1	86.2	50-150	
Methyl cyclohexane	50.0	27.2	54.3	50-150	
tert-Amyl Ethylether	50.0	48.5	96.9	50-150	
Dibromomethane	50.0	48.8	97.6	50-150	
1,2-Dichloropropane	50.0	47.6	95.3	50-150	
Bromodichloromethane	50.0	48.8	97.5	50-150	
Methyl methacrylate	50.0	42.6	85.1	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	41.4	82.8	50-150	
cis-1,3-Dichloropropene	50.0	42.9	85.8	50-150	
Octane	50.0	23.4	46.8	50-150	*
Toluene	50.0	43.9	87.8	50-150	
Chloroacetonitrile	250	224	89.6	50-150	
2-Nitropropane	250	215	86.0	50-150	
1,1-Dichloro-2-pro	250	222	88.8	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062727.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2324062727.D
Fraction VOA
SampleType ENDCCV
Inj Date 27-JUN-2024 1948

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	218	87.1	50-150	
Tetrachloroethene	50.0	39.6	79.2	50-150	
trans-1,3-Dichloropropene	50.0	43.9	87.7	50-150	
Ethyl methacrylate	50.0	43.9	87.7	50-150	
1,1,2-Trichloroethane	50.0	48.5	97.0	50-150	
Chlorodibromomethane	50.0	44.1	88.3	50-150	
1,2-Dibromoethane	50.0	47.5	94.9	50-150	
2-Hexanone	250	214	85.4	50-150	
1-Chlorohexane	50.0	31.3	62.7	50-150	
1,3-Dichloropropane	50.0	48.9	97.8	50-150	
Chlorobenzene	50.0	46.1	92.3	50-150	
Ethylbenzene	50.0	41.7	83.5	50-150	
1,1,1,2-Tetrachloroethane	50.0	48.1	96.2	50-150	
mp-Xylene	100	84.6	84.6	50-150	
o-Xylene	50.0	44.9	89.7	50-150	
Styrene	50.0	44.5	89.0	50-150	
Bromoform	50.0	45.8	91.6	50-150	
Isopropylbenzene	50.0	37.5	75.0	50-150	
Bromobenzene	50.0	46.7	93.4	50-150	
n-Propylbenzene	50.0	37.1	74.3	50-150	
1,1,2,2-Tetrachloroethane	50.0	50.2	100	50-150	
o-Chlorotoluene	50.0	43.8	87.6	50-150	
1,2-Dichloroethene, Total	100	92.5	92.5	50-150	
1,3,5-Trimethylbenzene	50.0	41.3	82.5	50-150	
1,2,3-Trichloropropane	50.0	49.3	98.5	50-150	
trans-1,4-Dichloro-2-butene	50.0	42.5	84.9	50-150	
p-Chlorotoluene	50.0	44.8	89.6	50-150	
tert-Butylbenzene	50.0	37.9	75.8	50-150	
Pentachloroethane	50.0	40.0	79.9	50-150	
1,2,4-Trimethylbenzene	50.0	43.4	86.9	50-150	
sec-Butylbenzene	50.0	35.5	71.0	50-150	
p-Isopropyltoluene	50.0	37.2	74.4	50-150	
1,3-Dichlorobenzene	50.0	45.1	90.1	50-150	
1,4-Dichlorobenzene	50.0	44.9	89.7	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 23240627_2324062727.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2324062727.D
Fraction VOA
SampleType ENDCCV
Inj Date 27-JUN-2024 1948

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	37.2	74.3	50-150	
n-Butylbenzene	50.0	34.7	69.5	50-150	
Hexachloroethane	50.0	37.4	74.9	50-150	
1,2-Dichlorobenzene	50.0	47.2	94.4	50-150	
1,2-Dibromo-3-chloropropane	50.0	48.3	96.5	50-150	
Nitrobenzene	500	417	83.4	50-150	
Hexachlorobutadiene	50.0	32.1	64.1	50-150	
1,2,4-Trichlorobenzene	50.0	44.6	89.2	50-150	
Naphthalene	50.0	45.1	90.2	50-150	
1,3-Dichloropropene, Total	100	86.8	86.8	50-150	
1,2,3-Trichlorobenzene	50.0	46.1	92.2	50-150	
121 TOTAL XYLENES	150	129	86.3	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.332	0.302	0.302	0.010	-8.879	20.0	Averaged	
Chloromethane	50.0	49.7	3.47	0.100	-0.611	20.0	Wt Linear	
Vinyl Chloride	0.375	0.360	0.360	0.010	-4.127	20.0	Averaged	
Bromomethane	50.0	53.3	5.23	0.010	6.60	20.0	Wt Linear	
Chloroethane	50.0	47.7	4.13	0.010	-4.558	20.0	Wt Linear	
Pentane	50.0	42.7	4.99	0.010	-14.592	20.0	Wt Linear	
Trichlorofluoromethane	0.514	0.484	0.484	0.010	-5.829	20.0	Averaged	
Dichlorofluoromethane	0.476	0.485	0.485	0.010	1.99	20.0	Averaged	
Ethyl Ether	0.145	0.150	0.150	0.010	3.69	20.0	Averaged	
1,1-Dichloroethene	0.289	0.281	0.281	0.010	-2.585	20.0	Averaged	
Carbon Disulfide	0.623	0.613	0.613	0.010	-1.488	20.0	Averaged	
Freon 113	0.203	0.195	0.195	0.010	-4.043	20.0	Averaged	
Iodomethane	50.0	49.3	9.06	0.010	-1.320	20.0	Wt Linear	
Acrolein	0.047	0.046	0.046	0.000	-2.012	20.0	Averaged	
3-Chloro-1-propene	50.0	48.7	4.08	0.010	-2.589	20.0	Wt Linear	
Isopropyl Alcohol	250	260	63.2	0.000	4.10	20.0	Wt Linear	
Methylene Chloride	0.236	0.240	0.240	0.010	2.01	20.0	Averaged	
Acetone	0.026	0.025	0.025	0.000	-4.078	20.0	Averaged	
Methyl acetate	50.0	47.2	19.7	0.005	-5.627	20.0	Wt Linear	
trans-1,2-Dichloroethene	0.283	0.291	0.291	0.010	3.10	20.0	Averaged	
Hexane	50.0	47.2	2.25	0.010	-5.689	20.0	Wt Linear	
Methyl t-Butyl Ether	50.0	48.8	1.41	0.010	-2.310	20.0	Wt Linear	
tert.- Butyl Alcohol	0.026	0.027	0.027	0.000	1.79	20.0	Averaged	
Acetonitrile	0.029	0.031	0.031	0.000	6.86	20.0	Averaged	
Diisopropyl ether	0.627	0.672	0.672	0.010	7.17	20.0	Averaged	
Chloroprene	0.318	0.339	0.339	0.010	6.60	20.0	Averaged	
1,1-Dichloroethane	0.385	0.403	0.403	0.100	4.63	20.0	Averaged	
Acrylonitrile	0.100	0.109	0.109	0.000	8.82	20.0	Averaged	
n-Propanol	0.012	0.012	0.012	0.000	-0.496	20.0	Averaged	
Ethyl tert-butyl ether	0.666	0.723	0.723	0.010	8.53	20.0	Averaged	
Vinyl Acetate	50.0	46.7	16.3	0.010	-6.686	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.287	0.298	0.298	0.010	3.96	20.0	Averaged	
2,2-Dichloropropane	0.307	0.313	0.313	0.010	1.98	20.0	Averaged	
100 1,2-Dichloroethene, Total	0.285	0.295	0.295	0.010	3.53	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.124	0.130	0.130	0.010	5.53	20.0	Averaged	
Cyclohexane	0.344	0.333	0.333	0.010	-3.269	20.0	Averaged	
Chloroform	0.416	0.421	0.421	0.010	1.18	20.0	Averaged	
Ethyl Acetate	50.0	48.1	4.17	0.010	-3.868	20.0	Wt Linear	
Methyl acrylate	0.231	0.242	0.242	0.010	4.96	20.0	Averaged	
Carbon Tetrachloride	50.0	43.2	3.79	0.010	-13.502	20.0	Wt Linear	
Tetrahydrofuran	0.071	0.073	0.073	0.000	3.00	20.0	Averaged	
41 Dibromofluoromethane	0.237	0.231	0.231	0.010	-2.368	20.0	Averaged	
1,1,1-Trichloroethane	0.324	0.332	0.332	0.010	2.45	20.0	Averaged	
2-Butanone	0.034	0.034	0.034	0.000	-0.537	20.0	Averaged	
1,1-Dichloropropene	0.306	0.310	0.310	0.010	1.39	20.0	Averaged	
1-Chlorobutane	0.197	0.192	0.192	0.010	-2.569	20.0	Averaged	
Heptane	0.178	0.170	0.170	0.000	-4.544	20.0	Averaged	
Propionitrile	0.038	0.041	0.041	0.000	8.82	20.0	Averaged	
Benzene	0.941	0.927	0.927	0.010	-1.505	20.0	Averaged	
Methacrylonitrile	0.114	0.120	0.120	0.010	5.09	20.0	Averaged	
tert-Amyl methyl ether	0.643	0.696	0.696	0.010	8.28	20.0	Averaged	
51 1,2-Dichloroethane-d4	0.250	0.241	0.241	0.010	-3.351	20.0	Averaged	
Isobutyl alcohol	500	518	167	0.000	3.63	20.0	Wt Linear	
1,2-Dichloroethane	0.296	0.303	0.303	0.010	2.58	20.0	Averaged	
tert-Amyl Alcohol	0.020	0.021	0.021	0.002	3.10	20.0	Averaged	
Diisobutylene	50.0	46.3	1.86	0.010	-7.457	20.0	Wt Linear	
Trichloroethene	0.238	0.240	0.240	0.010	0.953	20.0	Averaged	
Methyl cyclohexane	0.973	0.964	0.964	0.005	-0.977	20.0	Averaged	
tert-Amyl Ethylether	50.0	48.6	1.83	0.010	-2.709	20.0	Wt Linear	
Dibromomethane	0.151	0.158	0.158	0.010	5.09	20.0	Averaged	
1,2-Dichloropropane	0.226	0.237	0.237	0.010	4.87	20.0	Averaged	
Bromodichloromethane	50.0	46.6	3.41	0.010	-6.786	20.0	Wt Linear	
Methyl methacrylate	0.179	0.194	0.194	0.010	8.44	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	46.7	6.46	0.010	-6.596	20.0	Wt Linear	
cis-1,3-Dichloropropene	50.0	49.7	0.992	0.010	-0.656	20.0	Wt Linear	
Octane	0.369	0.376	0.376	0.010	1.88	20.0	Averaged	
68 Toluene-d8	2.38	2.35	2.35	0.010	-0.993	20.0	Averaged	
Toluene	1.51	1.46	1.46	0.010	-2.952	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	0.038	0.039	0.039	0.000	4.84	20.0	Averaged	
2-Nitropropane	250	236	6.42	0.005	-5.570	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	250	240	65.2	0.001	-3.900	20.0	Wt Linear	
4-Methyl-2-Pentanone(MIBK)	250	260	1.62	0.010	4.00	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	48.6	1.09	0.010	-2.794	20.0	Wt Linear	
Tetrachloroethene	0.548	0.546	0.546	0.010	-0.447	20.0	Averaged	
Ethyl Methacrylate	50.0	49.9	1.10	0.010	-0.236	20.0	Wt Linear	
1,1,2-Trichloroethane	0.463	0.495	0.495	0.010	6.99	20.0	Averaged	
Chlorodibromomethane	50.0	47.2	1.62	0.010	-5.589	20.0	Wt Linear	
1,3-Dichloropropane	0.914	0.994	0.994	0.010	8.79	20.0	Averaged	
1,2-Dibromoethane	50.0	48.5	1.67	0.010	-2.917	20.0	Wt Linear	
2-Hexanone	250	256	2.39	0.010	2.48	20.0	Wt Linear	
1-Chlorohexane	0.792	0.824	0.824	0.010	4.07	20.0	Averaged	
Ethylbenzene	50.0	47.4	1.18	0.010	-5.139	20.0	Wt Linear	
Chlorobenzene	1.53	1.60	1.60	0.300	4.58	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	47.8	1.81	0.010	-4.476	20.0	Wt Linear	
mp-Xylene	100	96.9	0.969	0.010	-3.103	20.0	Wt Linear	
120 1,3-Dichloropropene, Total	100	98.3	1.04	0.010	-1.725	20.0	Wt Linear	
o-Xylene	1.02	0.985	0.985	0.010	-3.560	20.0	Averaged	
Styrene	50.0	49.2	0.572	0.010	-1.545	20.0	Wt Linear	
Bromoform	50.0	45.1	2.21	0.100	-9.774	20.0	Wt Linear	
Isopropylbenzene	50.0	49.5	0.408	0.010	-1.025	20.0	Wt Linear	
92 4-Bromofluorobenzene	0.830	0.810	0.810	0.010	-2.393	20.0	Averaged	
121 Total Xylenes	150	145	0.984	0.010	-3.255	20.0	Wt Linear	
n-Propylbenzene	0.725	0.754	0.754	0.010	3.94	20.0	Averaged	
Bromobenzene	0.709	0.735	0.735	0.010	3.64	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.705	0.770	0.770	0.300	9.18	20.0	Averaged	
1,3,5-Trimethylbenzene	2.02	2.13	2.13	0.010	5.40	20.0	Averaged	
o-Chlorotoluene	1.91	2.05	2.05	0.010	7.37	20.0	Averaged	
1,2,3-Trichloropropane	0.227	0.242	0.242	0.010	6.49	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	49.0	4.72	0.010	-1.967	20.0	Wt Linear	
p-Chlorotoluene	1.73	1.86	1.86	0.010	7.54	20.0	Averaged	
tert-Butylbenzene	0.483	0.516	0.516	0.010	6.94	20.0	Averaged	
Pentachloroethane	50.0	48.0	2.15	0.010	-3.906	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,4-Trimethylbenzene	50.0	49.6	0.472	0.010	-0.882	20.0	Wt Linear	
sec-Butylbenzene	2.49	2.71	2.71	0.010	8.57	20.0	Averaged	
p-Isopropyltoluene	0.571	0.617	0.617	0.010	7.98	20.0	Averaged	
1,3-Dichlorobenzene	1.19	1.26	1.26	0.010	5.45	20.0	Averaged	
1,4-Dichlorobenzene	1.25	1.29	1.29	0.010	3.57	20.0	Averaged	
n-Butylbenzene	0.534	0.561	0.561	0.010	5.06	20.0	Averaged	
Benzyl Chloride	50.0	45.9	3.65	0.010	-8.113	20.0	Wt Linear	
Hexachloroethane	50.0	44.6	2.62	0.010	-10.770	20.0	Wt Linear	
1,2-Dichlorobenzene	1.14	1.21	1.21	0.010	5.89	20.0	Averaged	
1,2-Dibromo-3-chloropropane	50.0	46.8	7.93	0.010	-6.458	20.0	Wt Linear	
Nitrobenzene	500	446	25.7	0.000	-10.731	20.0	Quadratic	
Hexachlorobutadiene	50.0	47.6	2.79	0.000	-4.752	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.754	0.822	0.822	0.010	9.10	20.0	Averaged	
Naphthalene	50.0	47.3	0.477	0.010	-5.351	20.0	Wt Linear	
1,2,3-Trichlorobenzene	50.0	46.6	1.27	0.010	-6.879	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	45.7	91.4	50-150	
Chloromethane	50.0	50.1	100	50-150	
Vinyl Chloride	50.0	47.3	94.7	50-150	
Bromomethane	50.0	57.6	115	50-150	
Chloroethane	50.0	47.5	95.1	50-150	
Pentane	50.0	38.5	77.1	50-150	
Trichlorofluoromethane	50.0	45.8	91.7	50-150	
Dichlorofluoromethane	50.0	49.6	99.2	50-150	
Ethyl Ether	50.0	50.1	100	50-150	
1,1-Dichloroethene	50.0	47.8	95.6	50-150	
Freon 113	50.0	45.4	90.8	50-150	
Carbon Disulfide	50.0	47.1	94.2	50-150	
Iodomethane	50.0	45.4	90.9	50-150	
Acrolein	250	230	92.0	50-150	
Isopropyl Alcohol	250	248	99.3	50-150	
3-Chloro-1-propene	50.0	46.8	93.6	50-150	
Methylene Chloride	50.0	48.9	97.9	50-150	
Acetone	250	236	94.2	50-150	
Methyl acetate	50.0	46.6	93.2	50-150	
trans-1,2-Dichloroethene	50.0	49.4	98.9	50-150	
Hexane	50.0	42.5	85.0	50-150	
Methyl t-Butyl Ether	50.0	47.1	94.1	50-150	
tert.- Butyl Alcohol	250	252	101	50-150	
Acetonitrile	250	272	109	50-150	
Diisopropyl ether	50.0	53.2	106	50-150	
Chloroprene	50.0	52.7	105	50-150	
1,1-Dichloroethane	50.0	52.1	104	50-150	
Acrylonitrile	250	267	107	50-150	
n-Propanol	500	505	101	50-150	
Ethyl tert-butyl ether	50.0	53.4	107	50-150	
Vinyl acetate	50.0	43.6	87.2	50-150	
cis-1,2-Dichloroethene	50.0	51.2	102	50-150	
2,2-Dichloropropane	50.0	39.6	79.1	50-150	
Bromochloromethane	50.0	51.8	104	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	47.1	94.1	50-150	
Chloroform	50.0	51.4	103	50-150	
Ethyl acetate	50.0	47.9	95.9	50-150	
Methyl acrylate	50.0	52.1	104	50-150	
Carbon Tetrachloride	50.0	44.4	88.8	50-150	
Tetrahydrofuran	250	261	104	50-150	
1,1,1-Trichloroethane	50.0	50.8	102	50-150	
2-Butanone	250	248	99.1	50-150	
1,1-Dichloropropene	50.0	48.9	97.8	50-150	
1-Chlorobutane	50.0	48.7	97.4	50-150	
Heptane	50.0	38.7	77.3	50-150	
Benzene	50.0	48.9	97.9	50-150	
Propionitrile	250	276	110	50-150	
Methacrylonitrile	50.0	52.8	106	50-150	
tert-amyl methyl E	50.0	53.2	106	50-150	
Isobutyl alcohol	500	669	134	50-150	
1,2-Dichloroethane	50.0	49.9	99.9	50-150	
tert-Amyl Alcohol	250	244	97.8	50-150	
Diisobutylene	50.0	44.9	89.7	50-150	
Trichloroethene	50.0	47.5	95.0	50-150	
Methyl cyclohexane	50.0	44.4	88.8	50-150	
tert-Amyl Ethylether	50.0	47.5	95.0	50-150	
Dibromomethane	50.0	51.8	104	50-150	
1,2-Dichloropropane	50.0	52.4	105	50-150	
Bromodichloromethane	50.0	45.5	91.1	50-150	
Methyl methacrylate	50.0	53.7	107	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	45.8	91.6	50-150	
cis-1,3-Dichloropropene	50.0	43.9	87.8	50-150	
Octane	50.0	38.3	76.7	50-150	
Toluene	50.0	44.8	89.5	50-150	
Chloroacetonitrile	250	247	98.8	50-150	
2-Nitropropane	250	225	89.9	50-150	
1,1-Dichloro-2-pro	250	219	87.5	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	250	100	50-150	
Tetrachloroethene	50.0	47.4	94.9	50-150	
trans-1,3-Dichloropropene	50.0	43.5	87.0	50-150	
Ethyl methacrylate	50.0	46.5	93.0	50-150	
1,1,2-Trichloroethane	50.0	49.0	98.0	50-150	
Chlorodibromomethane	50.0	43.5	87.0	50-150	
1,2-Dibromoethane	50.0	45.4	90.8	50-150	
2-Hexanone	250	245	98.1	50-150	
1-Chlorohexane	50.0	46.6	93.2	50-150	
1,3-Dichloropropane	50.0	50.5	101	50-150	
Chlorobenzene	50.0	47.5	95.0	50-150	
Ethylbenzene	50.0	43.5	87.0	50-150	
1,1,1,2-Tetrachloroethane	50.0	44.1	88.3	50-150	
mp-Xylene	100	87.1	87.0	50-150	
o-Xylene	50.0	44.4	88.8	50-150	
Styrene	50.0	48.9	97.7	50-150	
Bromoform	50.0	44.5	88.9	50-150	
Isopropylbenzene	50.0	48.9	97.8	50-150	
Bromobenzene	50.0	51.0	102	50-150	
n-Propylbenzene	50.0	50.8	102	50-150	
1,1,2,2-Tetrachloroethane	50.0	55.0	110	50-150	
o-Chlorotoluene	50.0	52.6	105	50-150	
1,2-Dichloroethene, Total	100	101	101	50-150	
1,3,5-Trimethylbenzene	50.0	51.5	103	50-150	
1,2,3-Trichloropropane	50.0	53.1	106	50-150	
trans-1,4-Dichloro-2-butene	50.0	47.4	94.7	50-150	
p-Chlorotoluene	50.0	52.6	105	50-150	
tert-Butylbenzene	50.0	52.8	106	50-150	
Pentachloroethane	50.0	43.3	86.6	50-150	
1,2,4-Trimethylbenzene	50.0	48.8	97.6	50-150	
sec-Butylbenzene	50.0	53.1	106	50-150	
p-Isopropyltoluene	50.0	51.9	104	50-150	
1,3-Dichlorobenzene	50.0	51.3	103	50-150	
1,4-Dichlorobenzene	50.0	50.9	102	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH132|HS24060985

Workorder 3366028

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	30.4	60.9	50-150	
n-Butylbenzene	50.0	49.0	97.9	50-150	
Hexachloroethane	50.0	45.6	91.2	50-150	
1,2-Dichlorobenzene	50.0	52.4	105	50-150	
1,2-Dibromo-3-chloropropane	50.0	46.9	93.7	50-150	
Nitrobenzene	500	451	90.2	50-150	
Hexachlorobutadiene	50.0	42.8	85.6	50-150	
1,2,4-Trichlorobenzene	50.0	50.1	100	50-150	
Naphthalene	50.0	46.6	93.1	50-150	
1,3-Dichloropropene, Total	100	87.4	87.4	50-150	
1,2,3-Trichlorobenzene	50.0	44.6	89.3	50-150	
121 TOTAL XYLENES	150	131	87.6	50-150	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24060985 - AHH132

Workorder 3366028

Volatiles by EPA 8260D

23240627		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
STD-CCV	2324062701.D	950388		4.35		413312		6.37		467414		8.14	
3366028001	2324062711.D	968235		4.36		429296		6.37		497120		8.14	
3366028002	2324062712.D	960975		4.36		425979		6.37		496329		8.14	
3366028003	2324062713.D	975246		4.36		429720		6.37		482307		8.14	
3366028004	2324062714.D	972518		4.36		427929		6.36		489809		8.14	
3366028006	2324062716.D	949257		4.36		411986		6.36		449517		8.15	
3366028007	2324062717.D	954336		4.36		422964		6.36		489138		8.14	
3366028009	2324062719.D	936192		4.36		417453		6.37		479232		8.14	
3366028010	2324062706.D	976465		4.36		415022		6.37		456177		8.14	
MB-3845268	2324062705.D	981269		4.36		433179		6.37		478909		8.14	
LCS-3845269	2324062702.D	955689		4.36		409041		6.37		460396		8.14	

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

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

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

Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24060985 - AHH132

Workorder 3366028

Volatiles by EPA 8260D

25240628		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4				
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	
STD-CCV	2524062801.D	1037403		4.17		395519		6.17		361869		7.95		
3366028004	2524062823.D	933475		4.17		338932		6.17		266584		7.95		
3366028005	2524062807.D	1022550		4.17		379746		6.17		307552		7.95		
3366028007	2524062824.D	874143		4.17		322367		6.17		253262		7.95		
3366028008	2524062808.D	1050787		4.17		385370		6.17		322481		7.95		
MB-3845975	2524062804.D	1076068		4.17		385851		6.17		307789		7.95		
LCS-3845976	2524062802.D	1039946		4.17		395604		6.17		325554		7.95		

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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Logbook

Analysis Logs

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

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Data File: \\GC01\TargetData\Chem2\ms23.i\23_2024\23240625.b

Rev. 8/07/2022

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/25/2024	Analyst:	ILY		SOP ID:	02--8260	
DATA FILE:	23240625xx.d	BFB INJ :	6/25/24 10:30	INSTRUMENT: MS23	METHOD(S)	8260W	8260C_W	D8260W
BATCH:	23240625.b	12-HOUR ENDING:	6/25/24 22:30	ICAL DATE: 6/25/2024	LIMS BATCH:			73574

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	WP	1	8260	-	-	-		34	34							
2	02	WP	1	8260	-	-	-		35	35							
3	03	VSTD00.5	1	8260	-	-	-		36	36							
4	04	1234	1	8260	-	-	-		37	37							
5	05	1235	1	8260	-	-	-		38	38							
6	06	1236	1	8260	-	-	-		39	39							
7	07	1237	1	8260	-	-	-		40	40							
8	08	1238	1	8260	-	-	-		41	41							
9	09	1239	1	8260	-	-	-		42	42							
10	10	WP	1	8260	-	-	-		43	43							
11	11	WP	1	8260	-	-	-		44	44							
12	12	WP	1	8260	-	-	-		45	45							
13	13	WP	1	8260	-	-	-		46	46							
14	14	3844054	1	8260	-	-	-		47	47							
15	15	3844055	1	8260	-	-	-		48	48							
16	16	WP	1	8260	-	-	-		49	49							
17	17	3364577008-A	1	D8260W V	<2	N	N		50	50							
18	18	3364577007-A	1	D8260W V	<2	N	N		51	51							
19	19	3364577003-A	1	D8260W V	<2	N	N		52	52							
20	20	3364577004-A	1	D8260W V	<2	N	N		53	53							
21	21	3364577005-A	1	D8260W V	<2	N	N		54	54							
22	22	3364577006-A	1	D8260W V	<2	N	N		55	55							
23	23	3364464014-A	1	D8260W V	<2	N	N		56	56							
24	24	3364464015-A	1	D8260W V	<2	N	N		57	57							
25	25	3364464016-A	1	D8260W V	<2	N	N		58	58							
26	26	3364464021-A	1	D8260W V	<2	N	N		59	59							
27	27	3364464022-A	1	D8260W V	<2	N	N		60	60							
28	28	3364577001-A	1	D8260W V	<2	N	N	DL10	61	61							
29	29	3364577002-A	1	D8260W V	<2	N	N	DL10	62	62							
30	30	3844056	1	8260	<2	N	N	"B"	63	63							
30	31	3844057	1	8260	<2	N	N	"B"	64	64							
31	32	1801	1	8260	-	-	-		65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO: Suspect Carryover	SS: Surrogate Failure	NB: Needs Batched
LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
RR: Rerun same dilution	DNR: Do not Report	(**): Sample is an RR, DF, or DL
DFx: Rerun @ less diln x	NU: Not Used	WP: Water Blank
DLx: Rerun @ diln x	AF: Antifoam was used	COMP: Composite
HDSP: Headspase	Cl: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS994
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

Rev. 8/07/2022

TARGET BATCH:	23240625.b	**HORIZON BATCH:**	0		73574	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS23	**METHOD:**	8260W	8260C_W	D8260W	**SOP ID:**	02--8260

DATA REVIEW

Reviewer 1	Reviewer 2		
PDK	ILY	BFB Reviewed	
PDK	ILY	Calibration/Continuing Calibration reviewed	
PDK	ILY	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
PDK	ILY	Correct ICAL referenced	
PDK	ILY	Correct start/end times/dates for ICAL	
PDK	ILY	Any elavated reporting limits due to ICAL?	Yes/No: N
PDK	ILY	Blank reviewed.	
PDK	ILY	LCS/second source reviewed	
PDK	ILY	MS/MSD reviewed - List failures on native sample	
PDK	ILY	All samples within 12/24-hour tune period?	
PDK	ILY	Compound retention times reviewed	
PDK	ILY	ISTDs for each sample reviewed	
PDK	ILY	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
PDK	ILY	Samples checked for over-range detections and put back in for reanalysis	
PDK	ILY	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
PDK	ILY	Container IDs in LIMS batch	

REPORTS REVIEW:

ILY	Runlog printed to PDF
PDK	Batch summary printed to PDF
PDK	ICAL Summary printed to PDF
PDK	BFB Reports printed to PDF
PDK	Calibration/CCAL reports printed to PDF
PDK	Reports printed to PDF for all samples (w/ LS if needed)
PDK	Logbook complete - All standard information included
ILY	Tests scheduled in LIMS

Signature	Date	
PDK	6/25/2024	Data 1st Review
ILY	6/27/2024	Data 2nd Review
ILY	6/27/2024	Data Reported
ILY	6/27/2024	Data Approved

COMMENTS:

Iodomethane & 2-CEVE reporting limits lowered to 100ppb

LL Readback Outliers: 2-CEVE, Nitrobenzene high bias

MIDL Readback Outliers: None

ICV Outliers(70-130%) : None

DOD ICV Outliers (80-120%) : None

Rev. 8/07/2022

Data File: \\GC01\TargetData\Chem2\ms23.i\23_2024\23240627.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/27/2024	Analyst:	ILY		SOP ID:	02--8260	
DATA FILE:	23240627xx.d	BFB INJ :	6/27/24 8:15	INSTRUMENT: MS23	METHOD(S)	8260W	D8260DW / D8260W
BATCH:	23240627.b	12-HOUR ENDING:	6/27/24 20:15	ICAL DATE: 6/25/2024	LIMS BATCH:		73629

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	1800	1	8260	-	-	-		34	34							
2	02	3845269	1	8260	-	-	-		35	35							
3	03	WP	1	8260	-	-	-		36	36							
4	04	WP	1	8260	-	-	-		37	37							
5	05	3845268	1	8260	-	-	-		38	38							
6	06	3366028010-A	1	D8260W V	<2	N	N		39	39							
7	07	3366029007-B	1	D8260W V	<2	N	N	(CORR) EXP	40	40	LAST VIAL						
8	08	3366029008-B	1	D8260W V	<2	N	N	(CORR) EXP	41	41	LAST VIAL						
9	09	3366031002-B	1	D8260W V	<2	N	N	(CORR)	42	42	LAST VIAL						
10	10	3366031003-B	1	D8260W V	<2	N	N	(CORR)	43	43	LAST VIAL						
11	11	3366028001-A	1	D8260W V	<2	N	N		44	44	1 VIAL						
12	12	3366028002-A	1	D8260W V	<2	N	N		45	45							
13	13	3366028003-A	1	D8260W V	<2	N	N		46	46							
14	14	3366028004-A	1	D8260W V	<2	N	N	DL20	47	47							
15	15	3366028005-A	1	D8260W V	<2	N	N	CO RR1X	48	48							
16	16	3366028006-A	1	D8260W V	<2	N	N		49	49							
17	17	3366028007-A	1	D8260W V	<2	N	N	DL20	50	50							
18	18	3366028008-A	1	D8260W V	<2	N	N	CO RR1X	51	51							
19	19	3366028009-A	1	D8260W V	<2	N	N		52	52							
20	20	3366027010-A	1	D8260W V	<2	N	N		53	53							
21	21	3366029003-B	10	D8260W V	<2	N	N	(DL) EXP	54	54	TCE						
22	22	3366029005-B	10	D8260W V	<2	N	N	(DL) EXP	55	55	C12DCE TCE						
23	23	3366031001-D	10	D8260W V	<2	N	N	(DL)	56	56	TCE						
24	24	3366029006-B	100	D8260W V	<2	N	N	(DL) EXP	57	57	C12DCE TCE						
25	25	3845270	1	8260	<2	N	N	"B"	58	58							
25	26	3845271	1	8260	<2	N	N	"B"	59	59							
26	27	1801	1	8260	-	-	-		60	60							
27	28								61	61							
28	29								62	62							
29	30								63	63							
30	31								64	64							
31	32								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure	NB:	Needs Batched
LS:	Library Search	IS:	ISTD Failure	AAS:	Autosampler Adds Surrogate (Soil)
RR:	Rerun same dilution	DNR:	Do not Report	(**):	Sample is an RR, DF, or DL
DFx:	Rerun @ less diln x	NU:	Not Used	WP:	Water Blank
DLx:	Rerun @ diln x	AF:	Antifoam was used	COMP:	Composite
HDSP:	Headspase	Cl:	Chlorine Check	Wt:	Weight

10ul :	HS972
25ul :	HS994
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

Rev. 8/07/2022

TARGET BATCH:	23240627.b	**HORIZON BATCH:**	0	73629		**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS23	**METHOD:**	8260W	08260DW	D8260W	**SOP ID:**	02--8260

DATA REVIEW

Reviewer 1	Reviewer 2		
CHS	ILY	BFB Reviewed	
CHS	ILY	Calibration/Continuing Calibration reviewed	
CHS	ILY	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
CHS	ILY	Correct ICAL referenced	
CHS	ILY	Correct start/end times/dates for ICAL	
CHS	ILY	Any elavated reporting limits due to ICAL?	Yes/No: N
CHS	ILY	Blank reviewed.	
CHS	ILY	LCS/second source reviewed	
CHS	ILY	MS/MSD reviewed - List failures on native sample	
CHS	ILY	All samples within 12/24-hour tune period?	
CHS	ILY	Compound retention times reviewed	
CHS	ILY	ISTDs for each sample reviewed	
CHS	ILY	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
CHS	ILY	Samples checked for over-range detections and put back in for reanalysis	
CHS	ILY	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
CHS	ILY	Container IDs in LIMS batch	

REPORTS REVIEW:

ILY	Runlog printed to PDF
CHS	Batch summary printed to PDF
CHS	ICAL Summary printed to PDF
CHS	BFB Reports printed to PDF
CHS	Calibration/CCAL reports printed to PDF
CHS	Reports printed to PDF for all samples (w/ LS if needed)
CHS	Logbook complete - All standard information included
ILY	Tests scheduled in LIMS

Signature	Date	
CHS	6/28/2024	Data 1st Review
ILY	6/28/2024	Data 2nd Review
ILY	6/28/2024	Data Reported
ILY	6/28/2024	Data Approved

COMMENTS:

Iodomethane & 2-CEVE reporting limits lowered to 100ppb

LL Readback Outliers: 2-CEVE, Nitrobenzene high bias

MIDL Readback Outliers: None

ICV Outliers(70-130%) : None

DOD ICV Outliers (80-120%) : None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240625.b

Rev. 8/07/2022

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/25/2024	Analyst:	ILY		SOP ID:	02 8260	
DATA FILE:	25240625xx.d	BFB INJ :	6/25/24 9:52	INSTRUMENT: MS25	METHOD(S)	8260W	8260C_W	D8260W
BATCH:	25240625.b	12-HOUR ENDING:	6/25/24 21:52	ICAL DATE: 6/25/2024	LIMS BATCH:			73573

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	WP	1	8260	-	-	-		34	34							
2	02	WP	1	8260	-	-	-		35	35							
3	03	VSTD00.5	1	8260	-	-	-		36	36							
4	04	1234	1	8260	-	-	-		37	37							
5	05	1235	1	8260	-	-	-		38	38							
6	06	1236	1	8260	-	-	-		39	39							
7	07	1237	1	8260	-	-	-		40	40							
8	08	1238	1	8260	-	-	-		41	41							
9	09	1239	1	8260	-	-	-		42	42							
10	10	WP	1	8260	-	-	-		43	43							
11	11	WP	1	8260	-	-	-		44	44							
12	12	WP	1	8260	-	-	-		45	45							
13	13	WP	1	8260	-	-	-		46	46							
14	14	3844041	1	8260	-	-	-	AF	47	47							
15	15	3844042	1	8260	-	-	-	AF	48	48							
16	16	WP	1	8260	-	-	-		49	49							
17	17	LOQ 1.0	1	8260	-	-	-		50	50							
18	18	3364027004-A	1	D8260W V		N			51	51							
19	19	3364639004-A	1	D8260W V		N			52	52							
20	20	3364581002-A	1	D8260W V		N			53	53							
21	21	3364581001-A	1	D8260W V		N			54	54							
22	22	3364027001-A	1	D8260W V		N			55	55							
23	23	3364027002-A	1	D8260W V		N			56	56							
24	24	3364027003-A	1	D8260W V		N			57	57							
25	25	3364581003-A	1	D8260W V		N			58	58							
26	26	3364639001-A	1	D8260W V		N			59	59							
27	27	3364464007-C	1	D8260W V		N		(RR)	60	60							
28	28	3363896005-C	1	D8260W V		N		(RR) PD MSD	61	61							
29	29	3363896016	20	TCLP V	-	-	-	AF	62	62							
30	30	3844274	1	D8260W V		N		"?"	63	63							
31	31	3844275	1	D8260W V		N		"?"	64	64							
32	32	1801	1	8260	-	-	-		65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure	NB:	Needs Batched
LS:	Library Search	IS:	ISTD Failure	AAS:	Autosampler Adds Surrogate (Soil)
RR:	Rerun same dilution	DNR:	Do not Report	(**):	Sample is an RR, DF, or DL
DFx:	Rerun @ less diln x	NU:	Not Used	WP:	Water Blank
DLx:	Rerun @ diln x	AF:	Antifoam was used	COMP:	Composite
HDSP:	Headspase	CI:	Chlorine Check	Wt:	Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Rev. 8/07/2022

Batch Review Checklist

TARGET BATCH:	25240625.b	**HORIZON BATCH:**	0		73573	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	8260W	8260C_W	D8260W	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
PDK	CHS	BFB Reviewed	
PDK	CHS	Calibration/Continuing Calibration reviewed	
PDK	CHS	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
PDK	CHS	Correct ICAL referenced	
PDK	CHS	Correct start/end times/dates for ICAL	
PDK	CHS	Any elavated reporting limits due to ICAL?	Yes/No: **N**
PDK	CHS	Blank reviewed.	
PDK	CHS	LCS/second source reviewed	
PDK	CHS	MS/MSD reviewed - List failures on native sample	
PDK	CHS	All samples within 12/24-hour tune period?	
PDK	CHS	Compound retention times reviewed	
PDK	CHS	ISTDs for each sample reviewed	
PDK	CHS	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
PDK	CHS	Samples checked for over-range detections and put back in for reanalysis	
PDK	CHS	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
PDK	CHS	Container IDs in LIMS batch	

REPORTS REVIEW:

CHS	Runlog printed to PDF
PDK	Batch summary printed to PDF
PDK	ICAL Summary printed to PDF
PDK	BFB Reports printed to PDF
PDK	Calibration/CCAL reports printed to PDF
PDK	Reports printed to PDF for all samples (w/ LS if needed)
PDK	Logbook complete - All standard information included
CHS	Tests scheduled in LIMS

Signature	Date	
PDK	6/25/2024	Data 1st Review
CHS	6/27/2024	Data 2nd Review
CHS	6/27/2024	Data Reported
CHS	6/27/2024	Data Approved

COMMENTS:

LL Readback Outliers: None

MIDL Readback Outliers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240628.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/28/2024	Analyst:	TMP/ILY		SOP ID:	02 8260	
DATA FILE:	25240628xx.d	BFB INJ :	6/28/24 9:00	INSTRUMENT: MS25	METHOD(S)	D8260DW	8260C_W	D8260DW
BATCH:	25240628.b	12-HOUR ENDING:	6/28/24 21:00	ICAL DATE: 6/25/2024	LIMS BATCH:	73650		

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	1800	1	8260	-	-	-		34	34							
2	02	3845976	1	8260	-	-	-	AF	35	35							
3	03	WP	1	8260	-	-	-		36	36							
4	-	WP	1	8260	-	-	-	skipped by AS	37	37							
5	04	3845975	1	8260	-	-	-	AF	38	38							
6	05	3366030005-A	1	D8260W V	<2	N	N		39	39							
7	06	3366026023-A	1	D8260W V	<2	N	N		40	40							
8	07	3366028005-B	1	D8260W V	<2	N	N	(CORR)	41	41	LAST VIAL						
9	08	3366028008-B	1	D8260W V	<2	N	N	(CORR)	42	42	LAST VIAL						
10	09	3366027002-B	1	D8260W V	<2	N	N	(CORR)	43	43							
11	11	3366026001-A	1	D8260W V	<2	N	N		44	44	fixed AS error here						
12	12	3366026002-A	1	D8260W V	<2	N	N	DL20	45	45							
13	13	3366026003-A	1	D8260W V	<2	N	N	CORR1X	46	46							
14	14	3366026005-A	1	D8260W V	<2	N	N	DL5	47	47							
15	15	3366026006-A	1	D8260W V	<2	N	N	DL10	48	48							
16	16	3366026007-A	1	D8260W V	<2	N	N	DL100	49	49							
17	17	3366026008-A	1	D8260W V	<2	N	N	DL20	50	50							
18	18	3366030001-A	1	D8260W V	<2	N	N	PD MSD CORR1X	51	51							
19	19	3366030002-A	1	D8260W V	<2	N	N	CORR1X	52	52							
20	20	3366030003-A	1	D8260W V	<2	N	N	CORR1X	53	53							
21	21	3366030004-A	1	D8260W V	<2	N	N	CORR1X	54	54							
22	22	3366036001-B	5	D8260W V	<2	N	N	(DL)	55	55							
23	23	3366028004-B	10	D8260W V	<2	N	N	(DL)	56	56							
24	24	3366028007-B	10	D8260W V	<2	N	N	(DL)	57	57							
25	25	3366027001-B	50	D8260W V	<2	N	N	(DL)	58	58							
26	26	3845977	1	8260	<2	N	N	"B"	59	59	CANCELLED						parent sample needs rerun
26	27	3845978	1	8260	<2	N	N	"B"	60	60	CANCELLED						parent sample needs rerun
27	28	WP	1	8260	-	-	-		61	61							
28	29	1801	1	8260	-	-	-		62	62							
29	30								63	63							
30	31								64	64							
31	32								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO: Suspect Carryover	SS: Surrogate Failure	NB: Needs Batched
LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
RR: Rerun same dilution	DNR: Do not Report	(**): Sample is an RR, DF, or DL
DFx: Rerun @ less diln x	NU: Not Used	WP: Water Blank
DLx: Rerun @ diln x	AF: Antifoam was used	COMP: Composite
HDSP: Headspase	Cl: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240628.b	**HORIZON BATCH:**	73650			**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	D8260DW	8260C_W	D8260DW	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
TMP	VLM	BFB Reviewed	
TMP	VLM	Calibration/Continuing Calibration reviewed	
TMP	VLM	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
TMP	VLM	Correct ICAL referenced	
TMP	VLM	Correct start/end times/dates for ICAL	
TMP	VLM	Any elavated reporting limits due to ICAL?	Yes/No: **N**
TMP	VLM	Blank reviewed.	
TMP	VLM	LCS/second source reviewed	
TMP	VLM	MS/MSD reviewed - List failures on native sample	
TMP	VLM	All samples within 12/24-hour tune period?	
TMP	VLM	Compound retention times reviewed	
TMP	VLM	ISTDs for each sample reviewed	
TMP	VLM	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
TMP	VLM	Samples checked for over-range detections and put back in for reanalysis	
TMP	VLM	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
TMP	VLM	Container IDs in LIMS batch	

REPORTS REVIEW:

VLM	Runlog printed to PDF
TMP	Batch summary printed to PDF
TMP	ICAL Summary printed to PDF
TMP	BFB Reports printed to PDF
TMP	Calibration/CCAL reports printed to PDF
TMP	Reports printed to PDF for all samples (w/ LS if needed)
TMP	Logbook complete - All standard information included
VLM	Tests scheduled in LIMS

Signature	Date	
TMP	6/29/2024	Data 1st Review
VLM	6/30/2024	Data 2nd Review
VLM	6/30/2024	Data Reported
VLM	6/30/2024	Data Approved

COMMENTS:

LL Readback Outllers: None

MIDL Readback Outllers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

right solutions.
right partner.

Raw Data 23240625

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

www.alsglobal.com

Data File: 2324062500.D Page 1
Report Date: 25-Jun-2024 22:23

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062500.D
Lab Smp Id: 1000
Inj Date : 25-JUN-2024 10:30
Operator : ILY Inst ID: ms23.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
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: NAMDTW7026

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

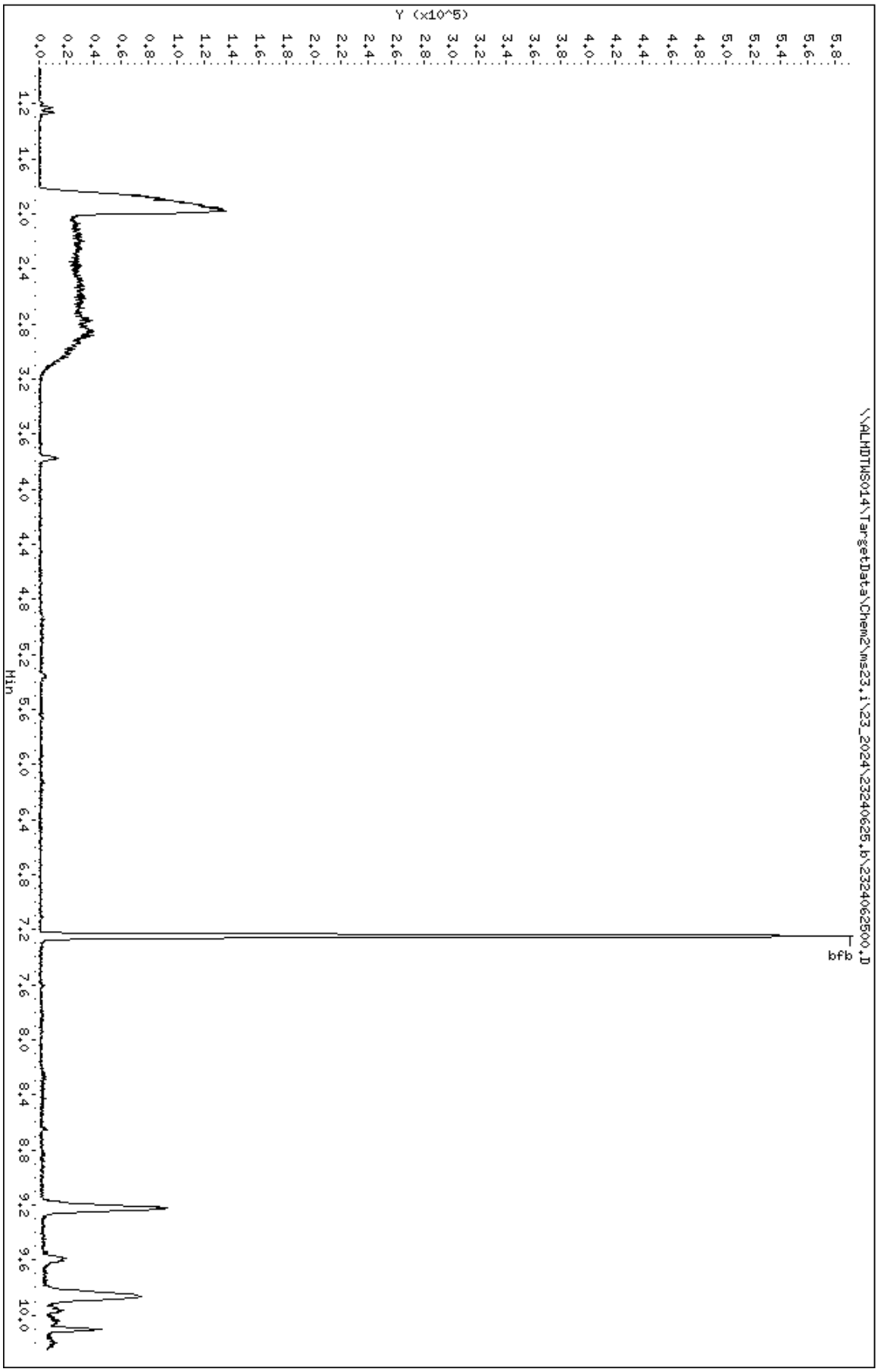
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.249	7.159	(0.000)	95	105920			0.00- 100.00	100.00
7.249	8.129	(0.000)	50	19816			15.00- 40.00	18.71
7.249	8.129	(0.000)	75	54152			30.00- 60.00	51.13
7.249	8.129	(0.000)	96	6873			5.00- 9.00	6.49
7.249	8.129	(0.000)	173	580			0.00- 2.00	0.55
7.249	8.129	(0.000)	174	105112			50.00- 0.00	99.24
7.249	8.129	(0.000)	175	7930			5.00- 9.00	7.54
7.249	8.129	(0.000)	176	105000			95.00- 101.00	99.89
7.249	8.129	(0.000)	177	6511			5.00- 9.00	6.20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.71
75	30.00 - 60.00% of mass 95	51.13
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.55 (0.55)
174	Greater than 50.00% of mass 95	99.24
175	5.00 - 9.00% of mass 174	7.49 (7.54)
176	95.00 - 101.00% of mass 174	99.13 (99.89)
177	5.00 - 9.00% of mass 176	6.15 (6.20)

Data File: 2324062500.D
Spectrum: Avg. Scans 2179-2181 (7.25), Background Scan 2166
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1415	64.00	431	93.00	4732	142.00	308
37.00	4116	65.00	98	94.00	12943	143.00	1585
38.00	3986	67.00	434	95.00	105920	147.00	153
39.00	1561	68.00	9182	96.00	6873	148.00	295
40.00	340	69.00	10312	97.00	194	149.00	101
42.00	56	70.00	557	104.00	464	155.00	474
44.00	108	72.00	1085	105.00	285	157.00	333
45.00	856	73.00	4810	106.00	441	161.00	261
47.00	943	74.00	17232	111.00	108	171.00	179
48.00	909	75.00	54152	112.00	59	172.00	199
49.00	3617	76.00	4458	115.00	58	173.00	580
50.00	19816	77.00	547	116.00	570	174.00	105112
51.00	5102	78.00	213	117.00	664	175.00	7930
52.00	268	79.00	2973	118.00	396	176.00	105000
55.00	278	80.00	819	119.00	539	177.00	6511
56.00	1705	81.00	2859	128.00	488	178.00	156
57.00	2988	82.00	658	129.00	117	207.00	56
58.00	69	86.00	99	130.00	538	211.00	59
60.00	1040	87.00	3346	131.00	74		
61.00	5266	88.00	2666	135.00	261		
62.00	4747	91.00	801	140.00	52		
63.00	4311	92.00	3199	141.00	986		


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Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624
Instrument: ms23,i
Operator: ILY
Column diameter: 0.53
Page 1
Y (x10^5)
Min
bfb
\\ALMDTWS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\23240625000,D

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062500.D
Inj Date : 25-JUN-2024 10:30
InstruID : ms23.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2324062503.D Page 1
Report Date: 27-Jun-2024 16:06

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:40
Operator : ILY Inst ID: ms23.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.631	1.632	(0.375)	7984	0.50000	0.566759(a)	
2	Chloromethane	50	1.785	1.780	(0.410)	5706	0.50000	0.662973(a)	
3	Vinyl Chloride	62	1.852	1.849	(0.425)	4846	0.50000	0.571568(a)	
4	Bromomethane	94	2.072	2.072	(0.476)	4253	0.50000	0.675701(a)	
5	Chloroethane	64	2.158	2.156	(0.496)	2749	0.50000	0.589255(a)	
6	Pentane	41	2.245	2.252	(0.516)	3288	0.50000	0.576441(a)	
7	Trichlorofluoromethane	101	2.251	2.255	(0.517)	10292	0.50000	0.570179(a)	
8	Dichlorofluoromethane	67	2.283	2.278	(0.524)	6172	0.50000	0.405057(a)	
9	Ethyl Ether	74	2.433	2.446	(0.559)	1909	0.50000	0.401290(aQM)	SP
10	1,1-Dichloroethene	61	2.578	2.582	(0.592)	4820	0.50000	0.447921(a)	
11	Freon 113	101	2.596	2.593	(0.596)	3228	0.50000	0.440996(aM)	SP
12	Carbon Disulfide	76	2.616	2.619	(0.601)	9551	0.50000	0.457584(a)	
13	Iodomethane	127	2.677	2.686	(0.615)	1590	0.50000	0.411651(a)	
14	Acrolein	56	2.761	2.767	(0.634)	2956	2.50000	2.18466	
15	Isopropyl Alcohol	45	2.824	2.819	(0.648)	2589	2.50000	2.63223	
16	3-Chloro-1-propene	41	2.850	2.848	(0.654)	2843	0.50000	0.534681(aQ)	
17	Methylene Chloride	84	2.914	2.909	(0.669)	3312	0.50000	0.424730(a)	
18	Acetone	58	2.926	2.923	(0.672)	1614	2.50000	2.24527(Q)	
19	Methyl acetate	74	2.992	2.999	(0.687)	1166	0.50000	0.644314(aQ)	
20	trans-1,2-Dichloroethene	61	3.001	3.005	(0.689)	3984	0.50000	0.403835(a)	
21	Hexane	57	3.047	3.042	(0.700)	9371	0.50000	0.640503(a)	
22	Methyl t-Butyl Ether	73	3.047	3.051	(0.700)	10800	0.50000	0.410125(aQ)	

Data File: 2324062503.D Page 2
Report Date: 27-Jun-2024 16:06

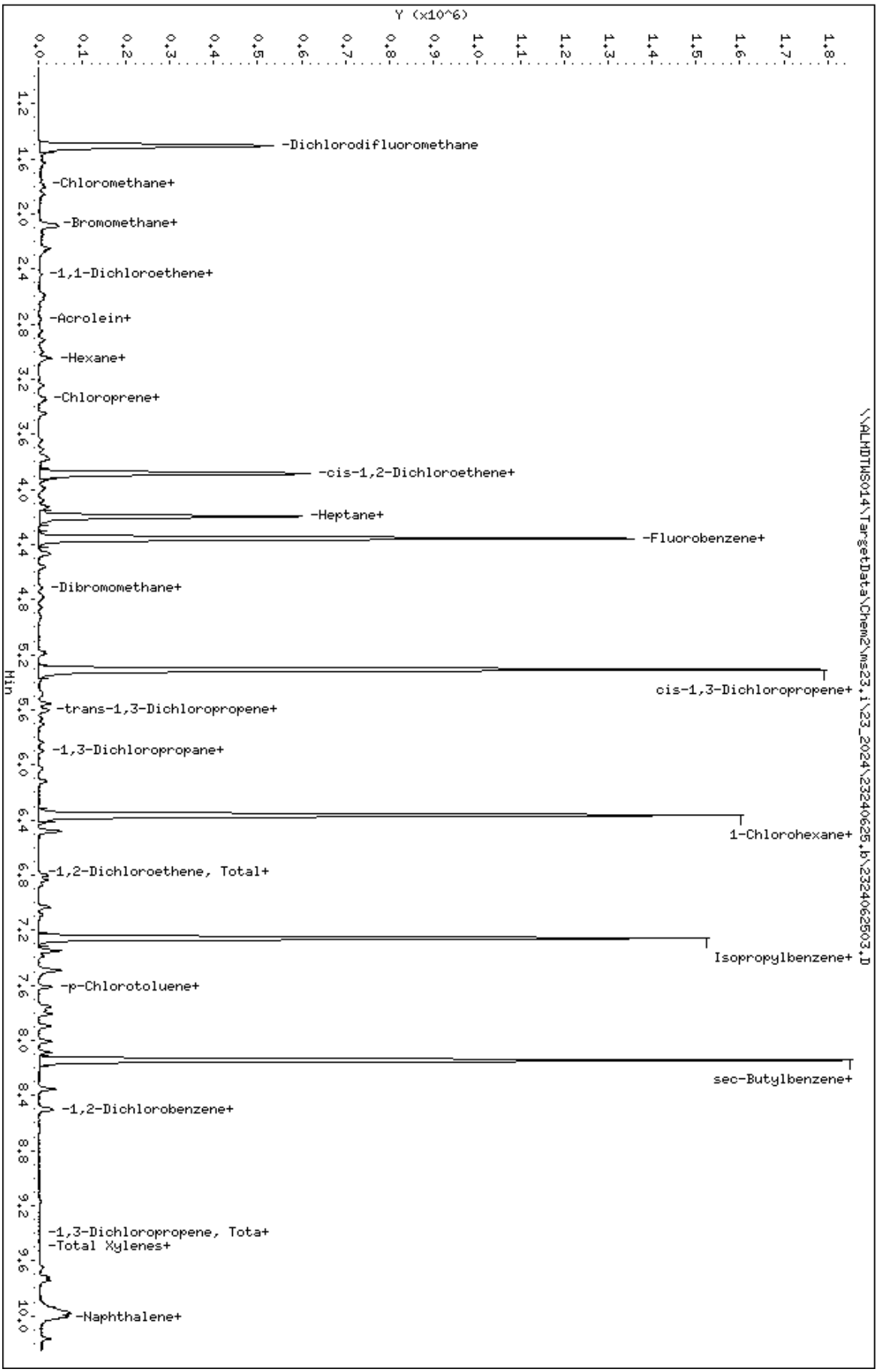
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.065	3.065	(0.704)	2506	2.50000	2.28437	
	24 Acetonitrile	41	3.180	3.187	(0.730)	1874	2.50000	2.26355(QMH)	H
	25 Diisopropyl ether	45	3.253	3.245	(0.747)	7426	0.50000	0.407682(a)	
	26 Chloroprene	53	3.337	3.329	(0.766)	3948	0.50000	0.554119(a)	
	27 1,1-Dichloroethane	63	3.348	3.346	(0.769)	4691	0.50000	0.535247(a)	
	28 Acrylonitrile	53	3.360	3.358	(0.771)	6986	2.50000	3.12861(M)	MP
	29 Ethyl tert-butyl ether	59	3.450	3.448	(0.792)	8862	0.50000	0.553770(a)	
	30 n-Propanol	41	3.447	3.448	(0.791)	1749	5.00000	4.10298(Q)	
	31 Vinyl Acetate	86	3.450	3.442	(0.792)	642	0.50000	0.581514(aQ)	
	32 cis-1,2-Dichloroethene	61	3.644	3.641	(0.837)	4582	0.50000	0.448891(a)	
	33 2,2-Dichloropropane	77	3.705	3.714	(0.850)	5500	0.50000	0.408257(aM)	H
	34 Bromochloromethane	128	3.751	3.754	(0.861)	2305	0.50000	0.467725(a)	
	35 Cyclohexane	84	3.786	3.789	(0.869)	4648	0.50000	0.405997(a)	
	36 Chloroform	83	3.780	3.775	(0.868)	7740	0.50000	0.452063(a)	
	37 Ethyl Acetate	43	3.815	3.818	(0.876)	3047	0.50000	0.404922(a)	
	38 Methyl acrylate	55	3.835	3.830	(0.880)	2535	0.50000	0.584271(a)	
	39 Carbon Tetrachloride	117	3.893	3.893	(0.894)	5500	0.50000	0.581089(aM)	MP
$	41 Dibromofluoromethane	113	3.887	3.885	(0.892)	274045	30.0000	29.0391	
	40 Tetrahydrofuran	42	3.887	3.888	(0.892)	4020	2.50000	2.02145(Q)	
	42 1,1,1-Trichloroethane	97	3.927	3.922	(0.902)	6124	0.50000	0.391332(a)	
	43 2-Butanone	72	3.939	3.951	(0.904)	2382	2.50000	2.15357	
	44 1,1-Dichloropropene	75	3.991	3.986	(0.916)	4351	0.50000	0.390595(a)	
	45 1-Chlorobutane	41	4.003	4.003	(0.919)	3536	0.50000	0.488674(aQ)	
	46 Heptane	71	4.084	4.078	(0.938)	2616	0.50000	0.508249(a)	
	47 Benzene	78	4.133	4.128	(0.949)	11869	0.50000	0.405992(a)	
	48 Propionitrile	54	4.119	4.105	(0.946)	2310	2.50000	3.03872	
	49 Methacrylonitrile	67	4.124	4.131	(0.947)	1599	0.50000	0.447897(aQM)	H
	50 tert-Amyl methyl ether	73	4.165	4.166	(0.956)	9267	0.50000	0.564841(a)	
	54 Isobutyl alcohol	42	4.159	4.168	(0.955)	787	5.00000	3.82299(QM)	H
$	51 1,2-Dichloroethane-d4	65	4.200	4.197	(0.964)	365647	30.0000	30.2656	
	52 1,2-Dichloroethane	62	4.231	4.235	(0.971)	6201	0.50000	0.449557(a)	
	53 tert-Amyl Alcohol	59	4.231	4.247	(0.971)	1679	2.50000	2.05382(Q)	
*	55 Fluorobenzene	96	4.356	4.357	(1.000)	960323	30.0000		
	56 Diisobutylene	57	4.353	4.357	(0.999)	35179	0.50000	0.570592(aQ)	
	57 Trichloroethene	95	4.452	4.458	(1.022)	3984	0.50000	0.444864(aM)	IH
	58 Methyl cyclohexane	83	4.475	4.470	(0.703)	5391	0.50000	0.451857(a)	
	59 tert-Amyl Ethylether	59	4.564	4.562	(1.048)	7382	0.50000	0.417671(a)	
	60 Dibromomethane	93	4.715	4.716	(1.082)	2149	0.50000	0.373169(a)	
	61 1,2-Dichloropropane	63	4.770	4.768	(1.095)	2459	0.50000	0.385719(aQM)	H
	62 Bromodichloromethane	83	4.787	4.791	(1.099)	4968	0.50000	0.404585(a)	
	63 Methyl methacrylate	41	4.854	4.855	(1.114)	2755	0.50000	0.603811(aM)	IH
	64 1,4-Dioxane	88	4.909	4.907	(1.127)	1249	12.5000	10.0534	
	65 2-Chloroethylvinyl ether	63	5.117	5.121	(1.175)	204	0.50000	2.79069(M)	IH
	66 cis-1,3-Dichloropropene	75	5.184	5.182	(0.814)	4347	0.50000	0.587701(a)	
	67 Octane	85	5.199	5.193	(0.817)	2040	0.50000	0.437237(aQ)	
$	68 Toluene-d8	98	5.306	5.309	(0.834)	1006145	30.0000	30.1826	
	69 Toluene	92	5.340	5.344	(0.839)	9491	0.50000	0.463789(a)	
	70 Chloroacetonitrile	75	5.378	5.376	(0.845)	640	2.50000	3.07222(QM)	H
	71 2-Nitropropane	41	5.471	5.474	(0.859)	5576	2.50000	3.17123	
	72 1,1-Dichloro-2-Propanone	63	5.500	5.503	(0.864)	694	2.50000	2.40674(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.558	5.555	(0.873)	12653	2.50000	2.84772	
	75 trans-1,3-Dichloropropene	75	5.595	5.587	(0.879)	5552	0.50000	0.592882(a)	
	74 Tetrachloroethene	164	5.610	5.605	(0.881)	4104	0.50000	0.461320(a)	
	76 Ethyl Methacrylate	69	5.670	5.668	(0.891)	3894	0.50000	0.608918(aM)	H

Data File: 2324062503.D Page 3
Report Date: 27-Jun-2024 16:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.708	5.706	(0.897)	2367	0.50000	0.389788(a)	
78	Chlorodibromomethane	129	5.836	5.839	(0.917)	3928	0.50000	0.581643(a)	
79	1,3-Dichloropropane	76	5.902	5.897	(0.927)	4968	0.50000	0.389986(a)	
80	1,2-Dibromoethane	107	6.021	6.019	(0.946)	3866	0.50000	0.434867(a)	
81	2-Hexanone	43	6.113	6.123	(0.960)	9467	2.50000	3.05873	
82	1-Chlorohexane	91	6.336	6.331	(0.995)	5005	0.50000	0.468501(aQ)	
* 83	Chlorobenzene-d5	82	6.365	6.363	(1.000)	418221	30.0000		
84	Chlorobenzene	112	6.377	6.378	(1.002)	9587	0.50000	0.407847(a)	
85	Ethylbenzene	106	6.383	6.378	(1.003)	5236	0.50000	0.422727(aQ)	
86	1,1,1,2-Tetrachloroethane	131	6.412	6.418	(1.007)	3804	0.50000	0.394489(a)	
87	mp-Xylene	106	6.481	6.482	(1.018)	12867	1.00000	0.859206(a)	
88	o-Xylene	106	6.797	6.797	(1.068)	6028	0.50000	0.409488(a)	
89	Styrene	104	6.837	6.838	(0.839)	8632	0.50000	0.551074(aM)	MP
90	Bromoform	173	6.875	6.870	(0.844)	3134	0.50000	0.630082(aM)	H
91	Isopropylbenzene	105	7.031	7.035	(0.863)	15455	0.50000	0.544337(a)	
M 100	1,2-Dichloroethene, Total	61				8566	1.00000	0.852726(a)	
$ 92	4-Bromofluorobenzene	174	7.257	7.258	(0.891)	401186	30.0000	30.1431	
93	Bromobenzene	156	7.350	7.350	(0.902)	5530	0.50000	0.483898(aQ)	
94	n-Propylbenzene	120	7.350	7.348	(0.902)	5410	0.50000	0.499948(aQ)	
95	1,1,2,2-Tetrachloroethane	83	7.382	7.388	(0.906)	4025	0.50000	0.425892(a)	
96	o-Chlorotoluene	91	7.486	7.489	(0.919)	13195	0.50000	0.447099(a)	
97	1,3,5-Trimethylbenzene	105	7.492	7.495	(0.920)	13128	0.50000	0.411479(a)	
98	1,2,3-Trichloropropane	110	7.506	7.507	(0.921)	1657	0.50000	0.413325(a)	
99	trans-1,4-Dichloro-2-butene	53	7.526	7.524	(0.924)	917	0.50000	0.577727(aQM)	H
101	p-Chlorotoluene	91	7.613	7.614	(0.935)	12106	0.50000	0.443655(a)	
102	tert-Butylbenzene	134	7.755	7.756	(0.952)	3483	0.50000	0.435983(aQ)	
103	Pentachloroethane	117	7.778	7.776	(0.955)	2432	0.50000	0.536780(aQM)	H
104	1,2,4-Trimethylbenzene	105	7.804	7.805	(0.958)	13966	0.50000	0.431008(a)	
105	sec-Butylbenzene	105	7.894	7.895	(0.969)	17435	0.50000	0.458955(a)	
106	p-Isopropyltoluene	134	8.004	8.007	(0.983)	4026	0.50000	0.438758(a)	
107	1,3-Dichlorobenzene	146	8.085	8.089	(0.993)	8407	0.50000	0.417504(a)	
* 108	1,4-Dichlorobenzene-d4	152	8.146	8.141	(1.000)	460058	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	8.158	8.157	(1.001)	9983	0.50000	0.483639(aQ)	
110	Benzyl Chloride	126	8.354	8.352	(1.026)	1342	0.50000	0.607994(aQ)	
111	n-Butylbenzene	134	8.346	8.352	(1.025)	3996	0.50000	0.470548(aQ)	
112	Hexachloroethane	117	8.499	8.494	(1.043)	2789	0.50000	0.608781(aM)	IH
113	1,2-Dichlorobenzene	146	8.505	8.509	(1.044)	9110	0.50000	0.466035(a)	
114	1,2-Dibromo-3-chloropropane	75	9.168	9.172	(1.125)	1256	0.50000	0.481814(aQ)	
115	Nitrobenzene	77	9.640	9.646	(1.183)	2594	5.00000	21.9154	
116	Hexachlorobutadiene	225	9.721	9.722	(1.193)	3389	0.50000	0.503992(a)	
M 120	1,3-Dichloropropene, Total	75				9899	1.00000	1.18058	
117	1,2,4-Trichlorobenzene	180	9.741	9.745	(1.196)	6416	0.50000	0.474366(a)	
M 121	Total Xylenes	106				18895	1.50000	1.26869	
118	Naphthalene	128	10.011	10.014	(1.229)	14513	0.50000	0.599874(a)	
119	1,2,3-Trichlorobenzene	180	10.170	10.168	(1.248)	6334	0.50000	0.473255(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB-VRX

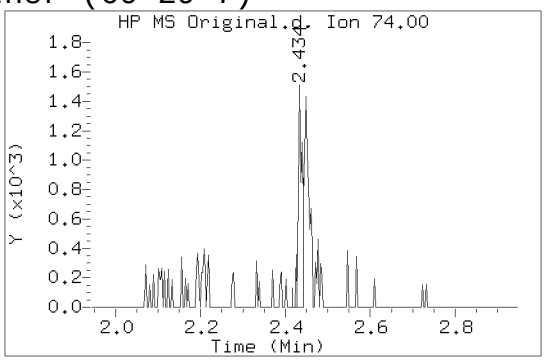
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Operator: ILY
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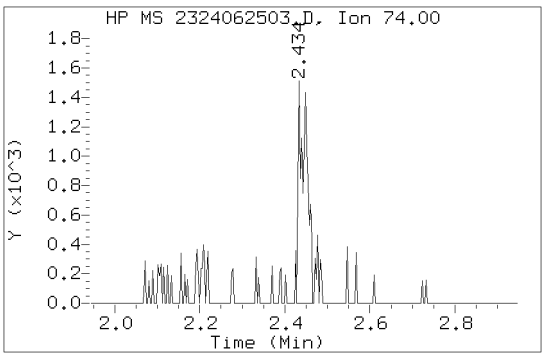
Ethyl Ether (60-29-7)

Reason Code: SP

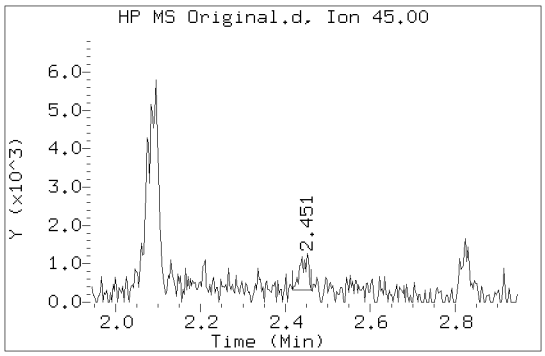
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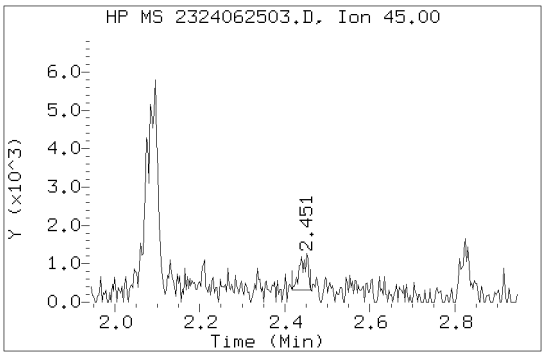
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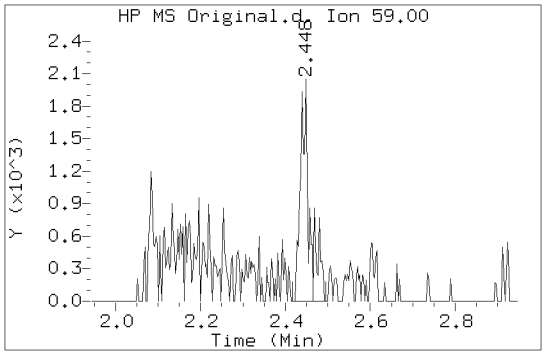
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25-Jun-2024
20:00



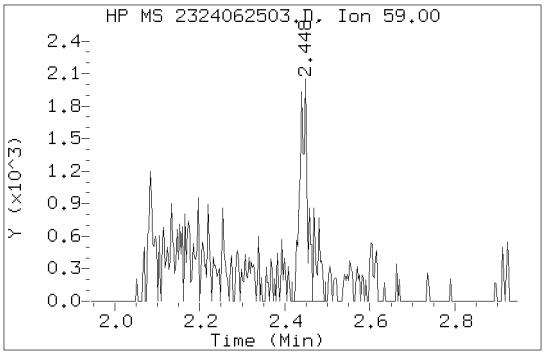
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20:00



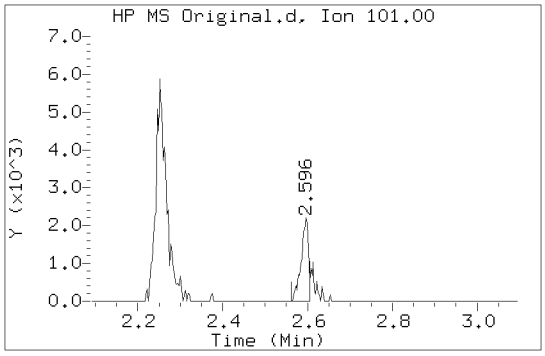
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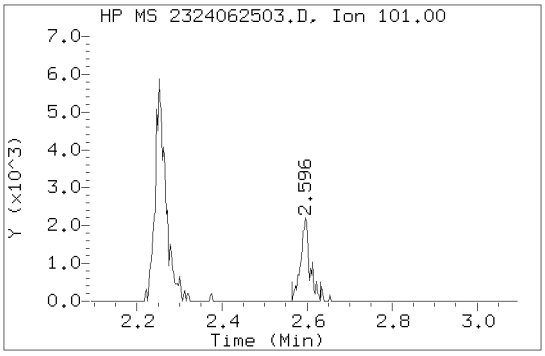
Freon 113 (76-13-1)

Reason Code: SP

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AFTER
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2211
27-Jun-2024
16:06

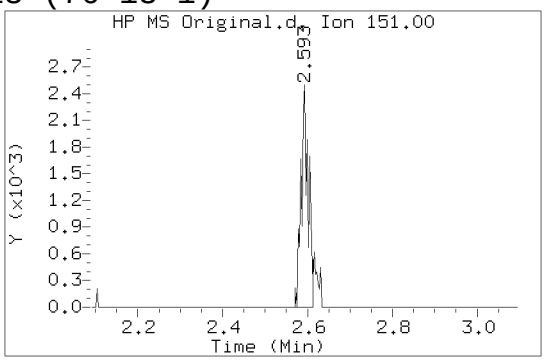


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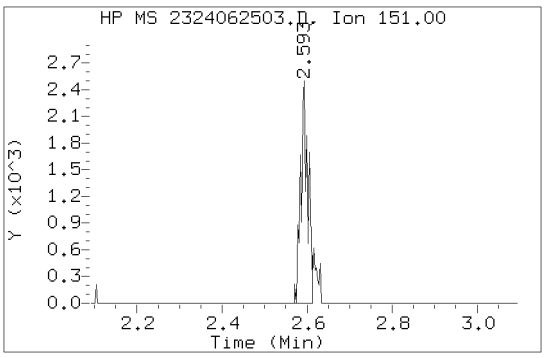
Freon 113 (76-13-1)

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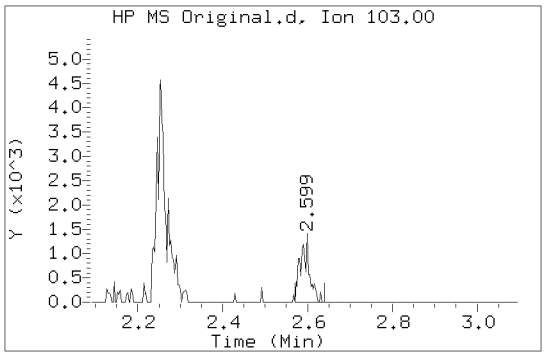
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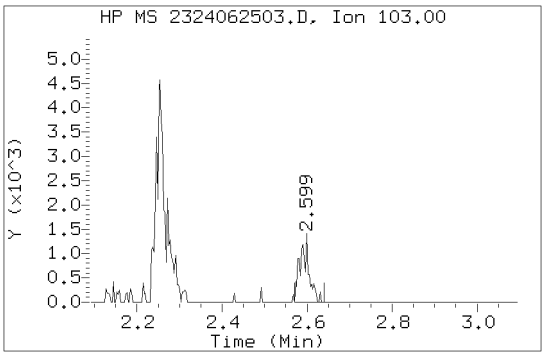
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16:06



BEFORE
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25-Jun-2024
20:00



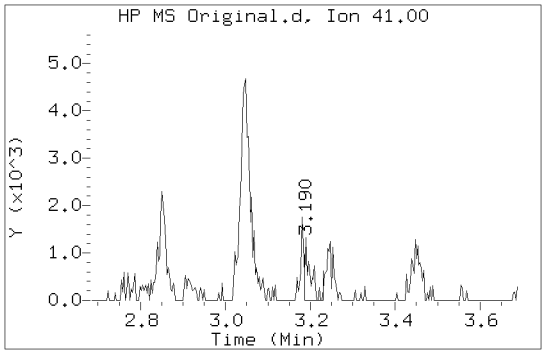
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27-Jun-2024
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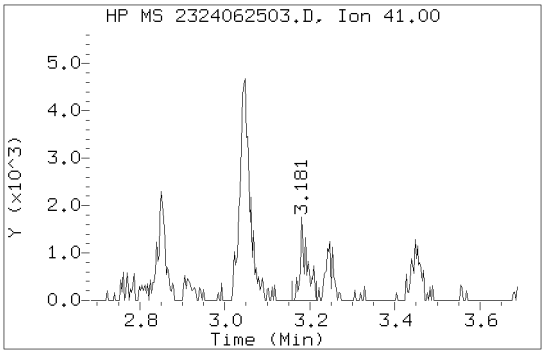
Acetonitrile (75-05-8)

Reason Code: H

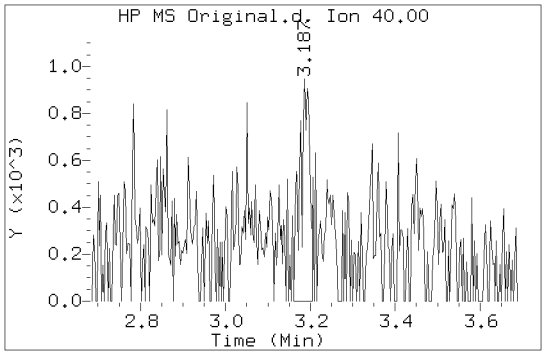
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25-Jun-2024
20:00



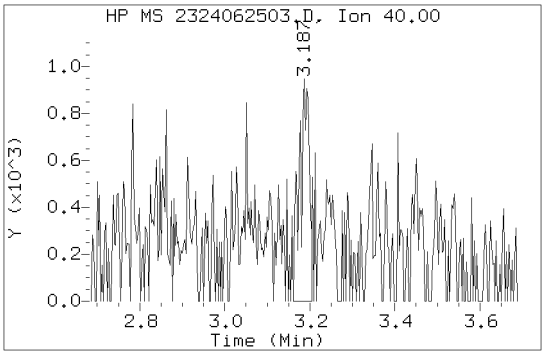
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27-Jun-2024
16:06



BEFORE
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1509
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25-Jun-2024
20:00



AFTER
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947
27-Jun-2024
16:06

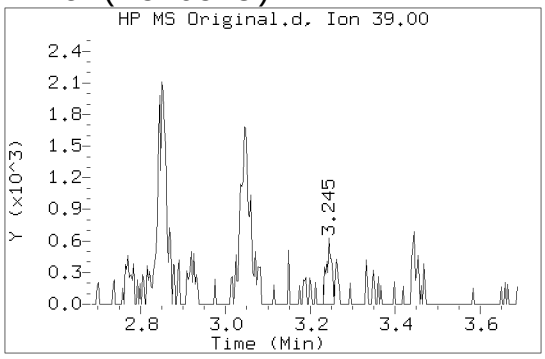


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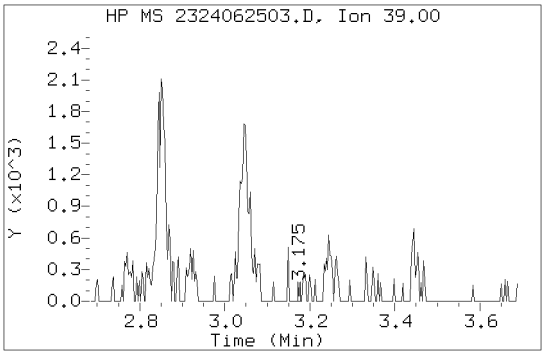
Acetonitrile (75-05-8)

Reason Code: H

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25-Jun-2024
20:00



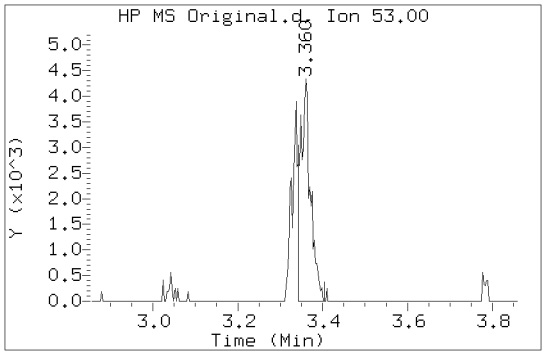
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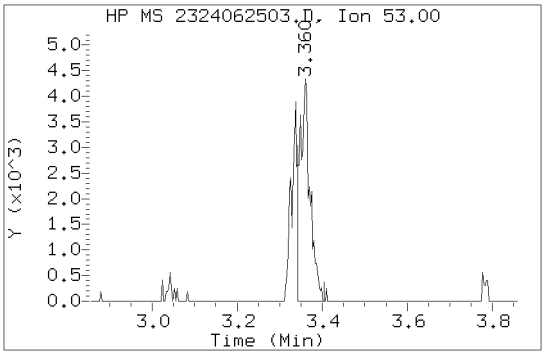
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Reason Code: MP

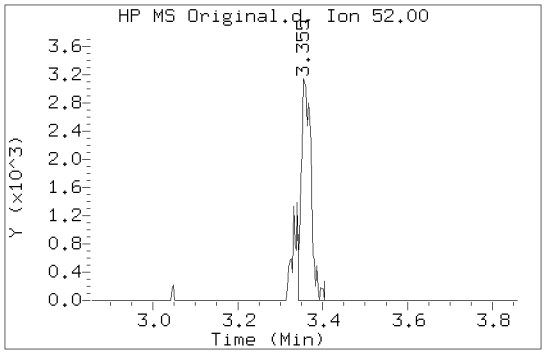
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25-Jun-2024
20:00



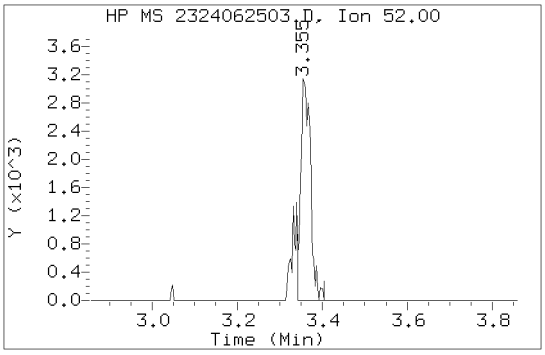
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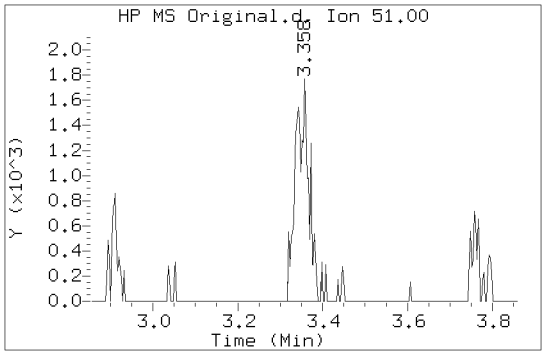
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25-Jun-2024
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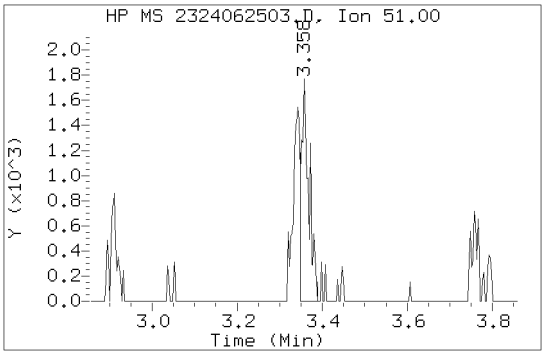
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BEFORE
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20:00



AFTER
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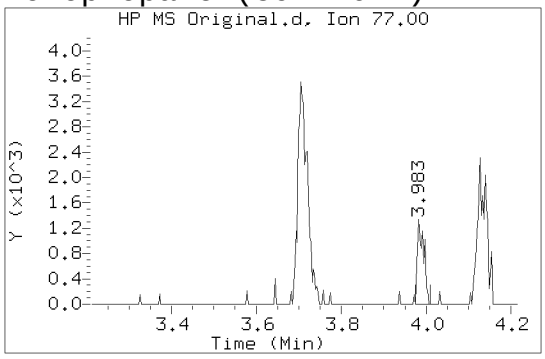


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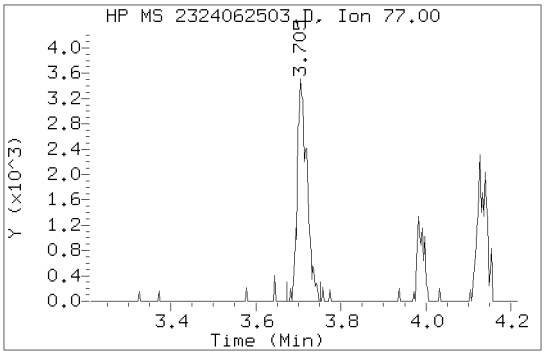
2,2-Dichloropropane (594-20-7)

Reason Code: H

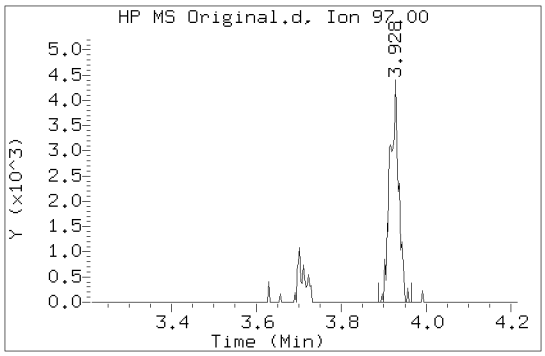
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25-Jun-2024
20:00



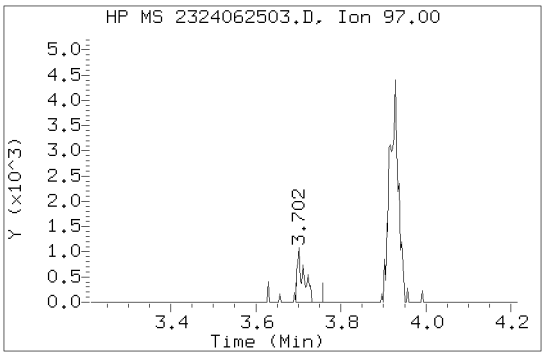
AFTER
MASS
77
AREA
5500
HEIGHT
3510
27-Jun-2024
16:06



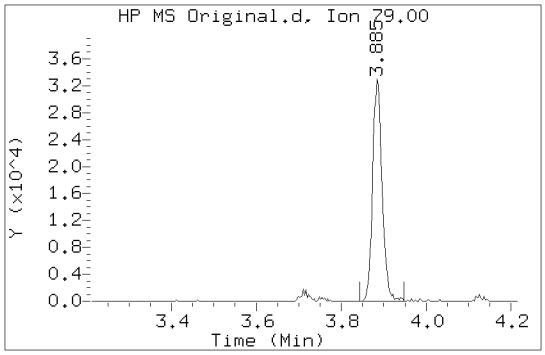
BEFORE
MASS
97
AREA
6201
HEIGHT
4405
25-Jun-2024
20:00



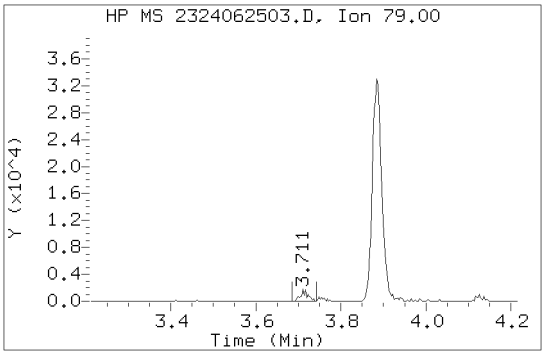
AFTER
MASS
97
AREA
1099
HEIGHT
1077
27-Jun-2024
16:06



BEFORE
MASS
79
AREA
51498
HEIGHT
33016
25-Jun-2024
20:00



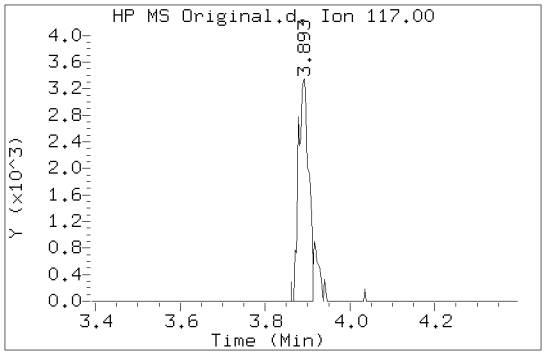
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MASS
79
AREA
1975
HEIGHT
1842
27-Jun-2024
16:06



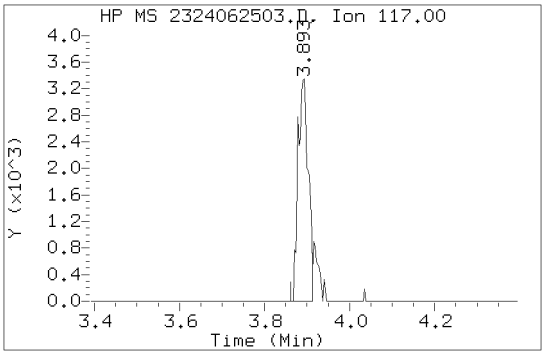
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
117
AREA
5500
HEIGHT
3346
25-Jun-2024
20:00



AFTER
MASS
117
AREA
5500
HEIGHT
3346
27-Jun-2024
16:06

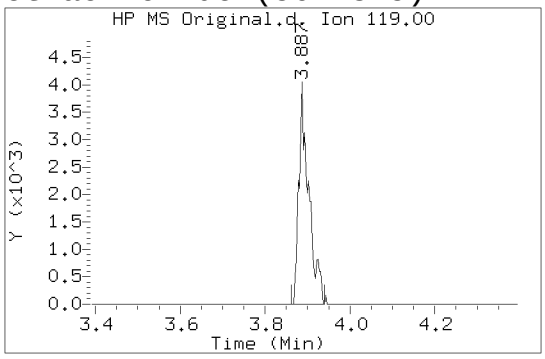


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InstruID : ms23.i
LabSampID : VSTD00.5

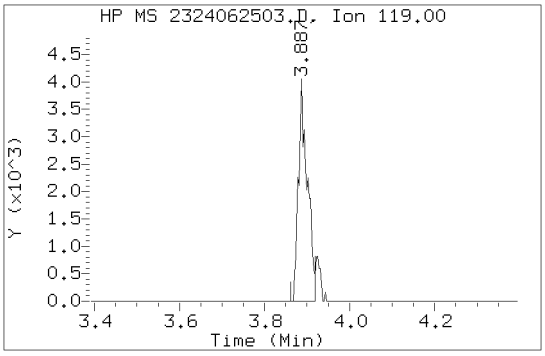
Carbon Tetrachloride (56-23-5)

Reason Code: MP

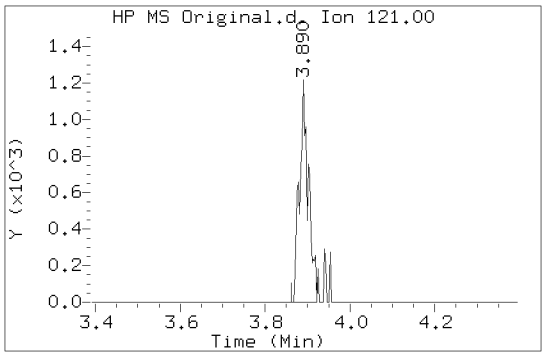
BEFORE
MASS
119
AREA
6406
HEIGHT
4054
25-Jun-2024
20:00



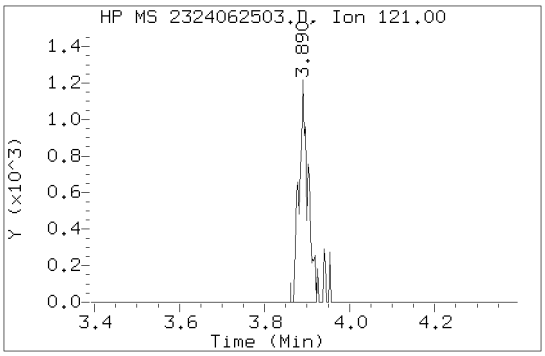
AFTER
MASS
119
AREA
5862
HEIGHT
4054
27-Jun-2024
16:06



BEFORE
MASS
121
AREA
1774
HEIGHT
1217
25-Jun-2024
20:00



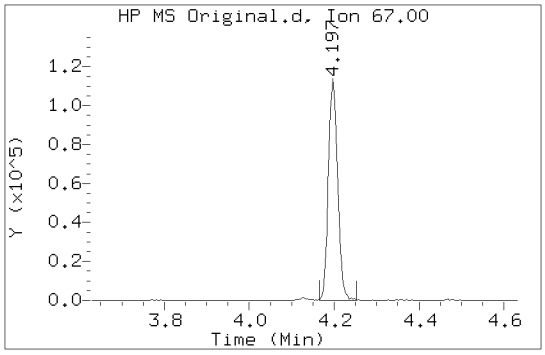
AFTER
MASS
121
AREA
1774
HEIGHT
1217
27-Jun-2024
16:06



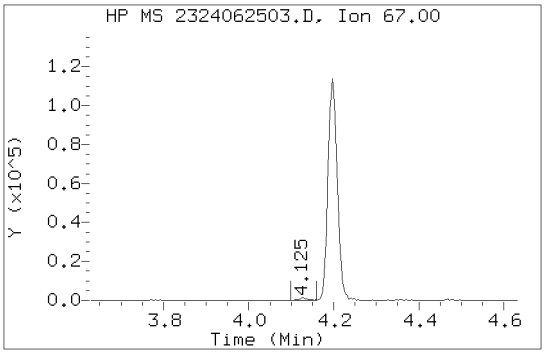
Methacrylonitrile (126-98-7)

Reason Code: H

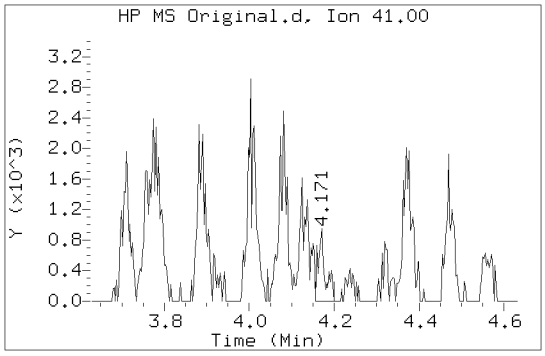
BEFORE
MASS
67
AREA
171797
HEIGHT
113824
25-Jun-2024
20:00



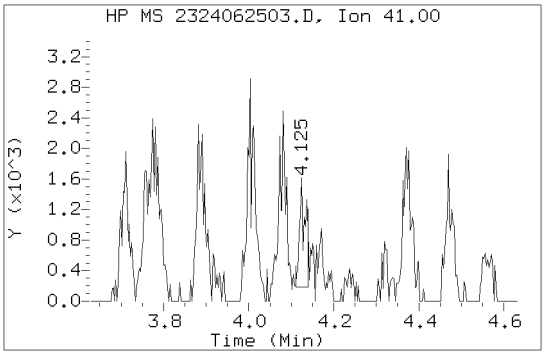
AFTER
MASS
67
AREA
1599
HEIGHT
1288
27-Jun-2024
16:06



BEFORE
MASS
41
AREA
1055
HEIGHT
950
25-Jun-2024
20:00



AFTER
MASS
41
AREA
1325
HEIGHT
1436
27-Jun-2024
16:06

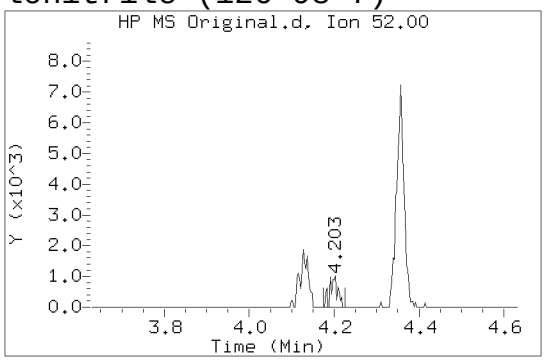


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InstruID : ms23.i
LabSampID : VSTD00.5

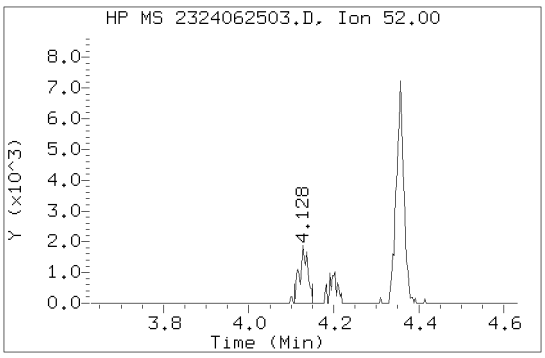
Methacrylonitrile (126-98-7)

Reason Code: H

BEFORE
MASS
52
AREA
1258
HEIGHT
1018
25-Jun-2024
20:00



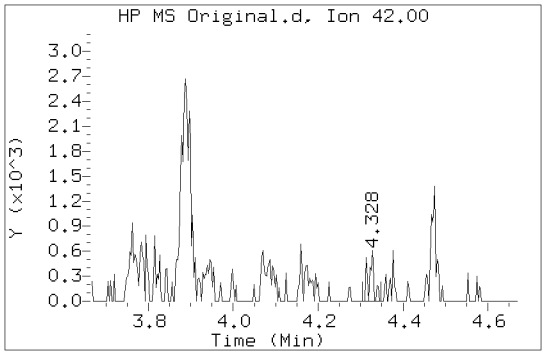
AFTER
MASS
52
AREA
2461
HEIGHT
1887
27-Jun-2024
16:06



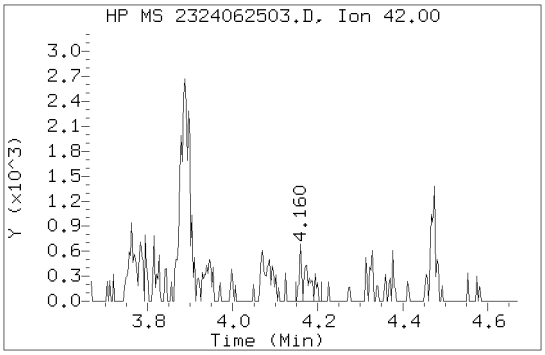
Isobutyl alcohol (78-83-1)

Reason Code: H

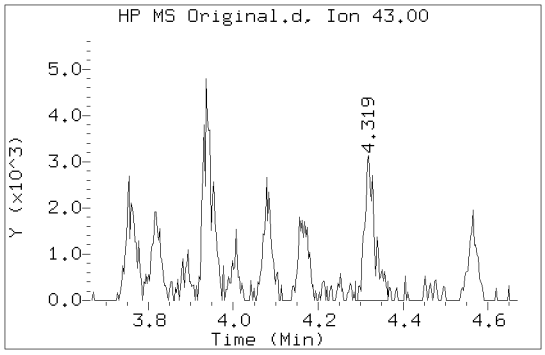
BEFORE
MASS
42
AREA
520
HEIGHT
608
25-Jun-2024
20:00



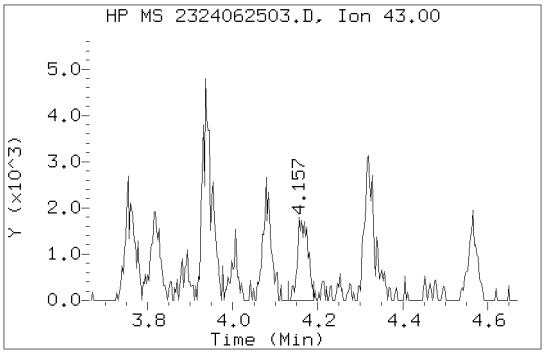
AFTER
MASS
42
AREA
787
HEIGHT
685
27-Jun-2024
16:06



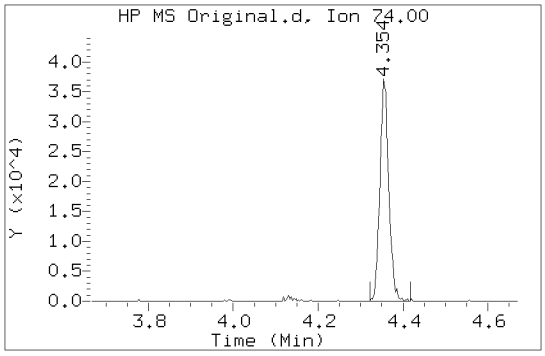
BEFORE
MASS
43
AREA
5218
HEIGHT
3139
25-Jun-2024
20:00



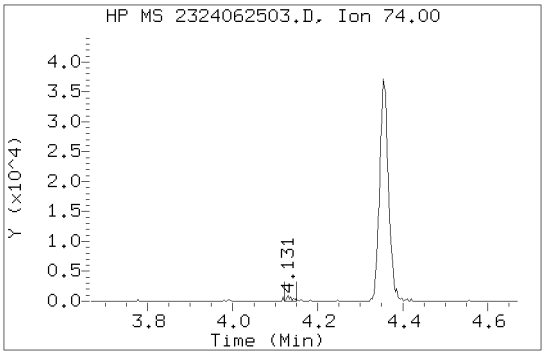
AFTER
MASS
43
AREA
2969
HEIGHT
1797
27-Jun-2024
16:06



BEFORE
MASS
74
AREA
53928
HEIGHT
37168
25-Jun-2024
20:00



AFTER
MASS
74
AREA
720
HEIGHT
954
27-Jun-2024
16:06

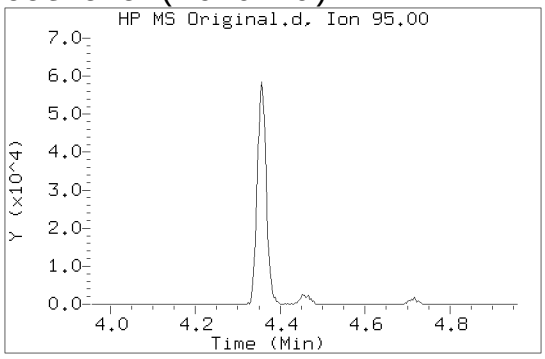


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LabSampID : VSTD00.5

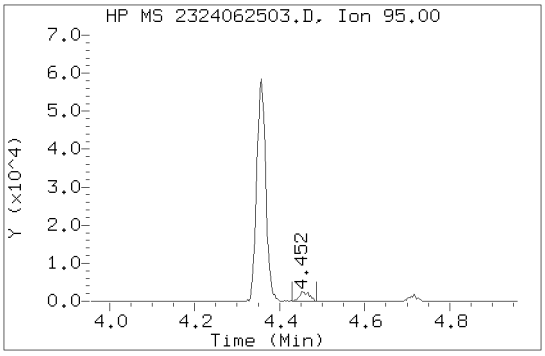
Trichloroethene (79-01-6)

Reason Code: IH

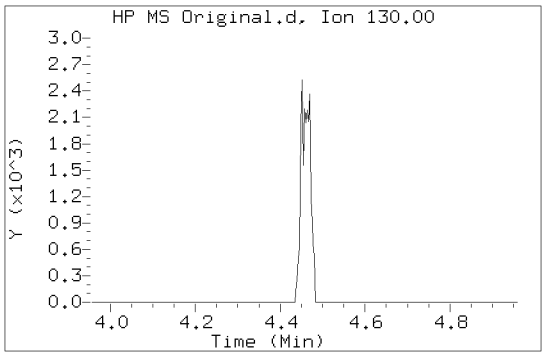
BEFORE
MASS
95
AREA
0
HEIGHT
0
25-Jun-2024
20:00



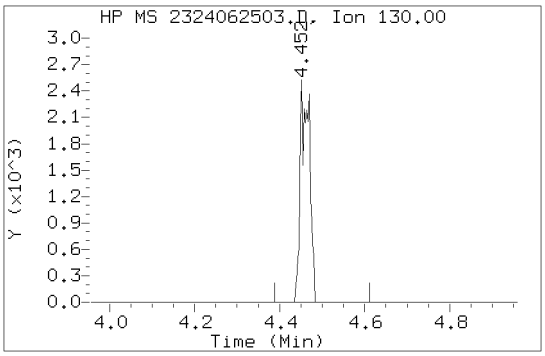
AFTER
MASS
95
AREA
3984
HEIGHT
2595
27-Jun-2024
16:06



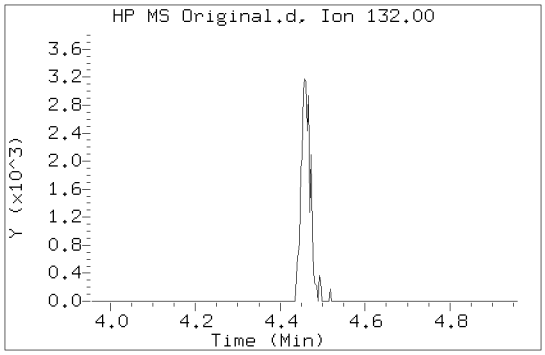
BEFORE
MASS
130
AREA
0
HEIGHT
0
25-Jun-2024
20:00



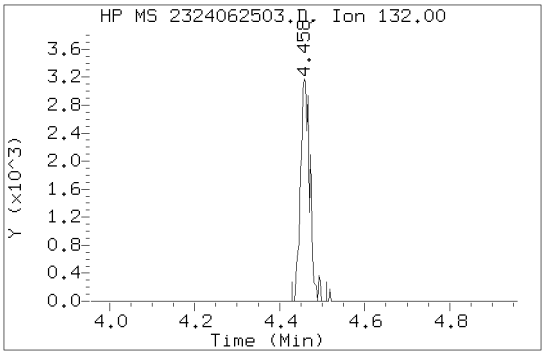
AFTER
MASS
130
AREA
3783
HEIGHT
2526
27-Jun-2024
16:06



BEFORE
MASS
132
AREA
0
HEIGHT
0
25-Jun-2024
20:00



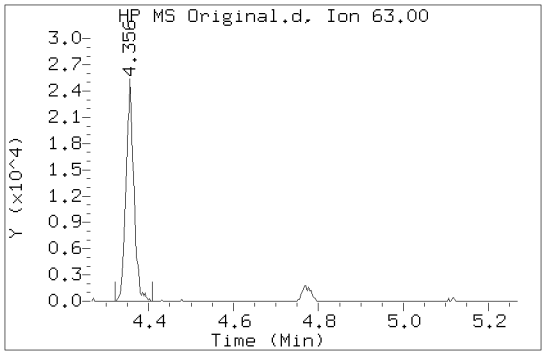
AFTER
MASS
132
AREA
4766
HEIGHT
3174
27-Jun-2024
16:06



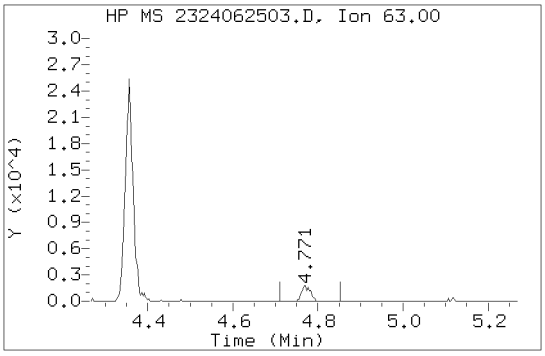
1,2-Dichloropropane (78-87-5)

Reason Code: H

BEFORE
MASS
63
AREA
33140
HEIGHT
25384
25-Jun-2024
20:00



AFTER
MASS
63
AREA
2459
HEIGHT
1774
27-Jun-2024
16:06

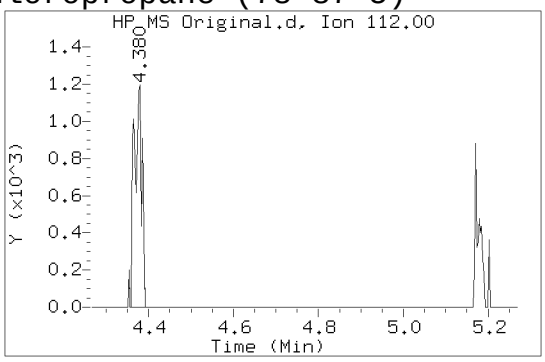


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LabSampID : VSTD00.5

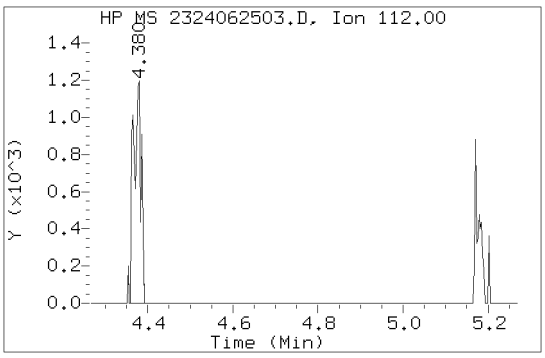
1,2-Dichloropropane (78-87-5)

Reason Code: H

BEFORE
MASS
112
AREA
1443
HEIGHT
1196
25-Jun-2024
20:00



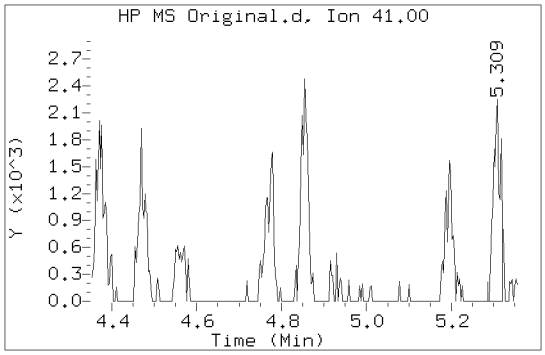
AFTER
MASS
112
AREA
1443
HEIGHT
1196
27-Jun-2024
16:06



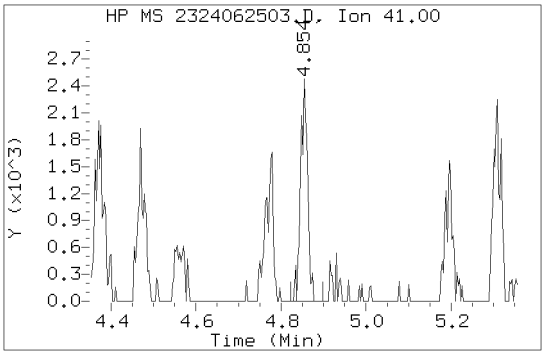
Methyl methacrylate (80-62-6)

Reason Code: IH

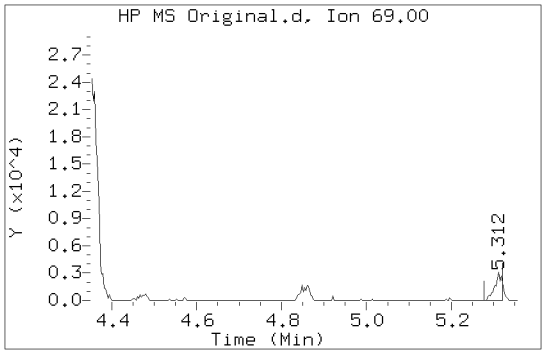
BEFORE
MASS
41
AREA
2576
HEIGHT
2255
25-Jun-2024
20:00



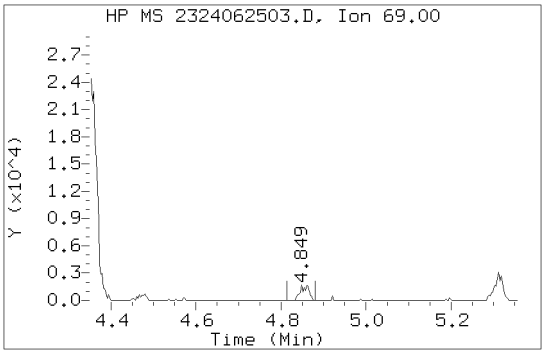
AFTER
MASS
41
AREA
2755
HEIGHT
2480
27-Jun-2024
16:06



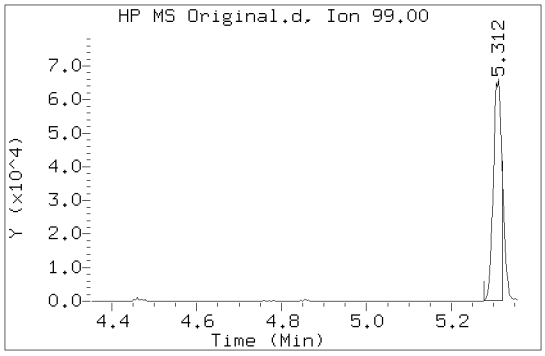
BEFORE
MASS
69
AREA
3524
HEIGHT
3129
25-Jun-2024
20:00



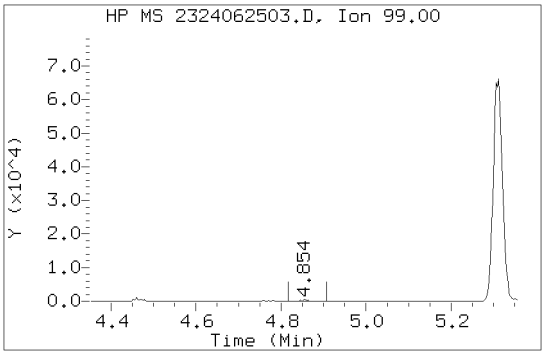
AFTER
MASS
69
AREA
2277
HEIGHT
1697
27-Jun-2024
16:06



BEFORE
MASS
99
AREA
88173
HEIGHT
65886
25-Jun-2024
20:00



AFTER
MASS
99
AREA
360
HEIGHT
598
27-Jun-2024
16:06

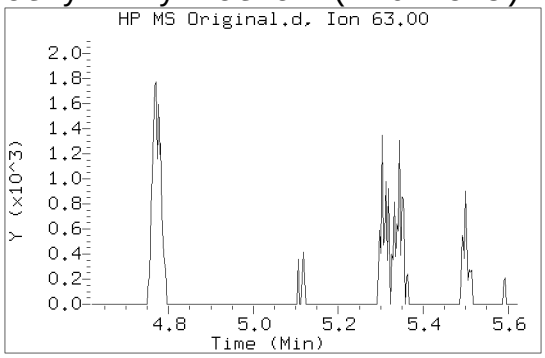


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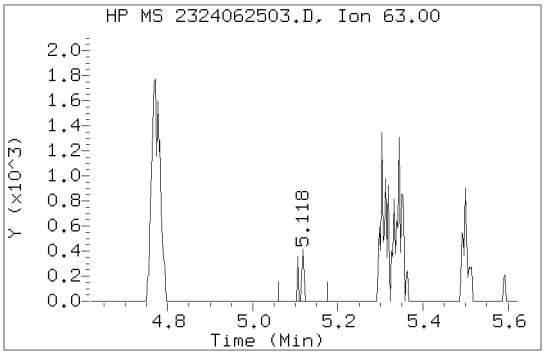
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

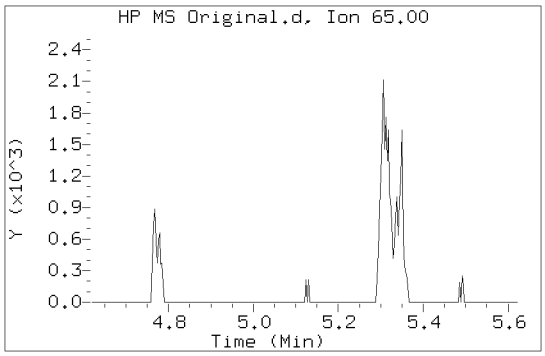
BEFORE
MASS
63
AREA
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HEIGHT
0
25-Jun-2024
20:00



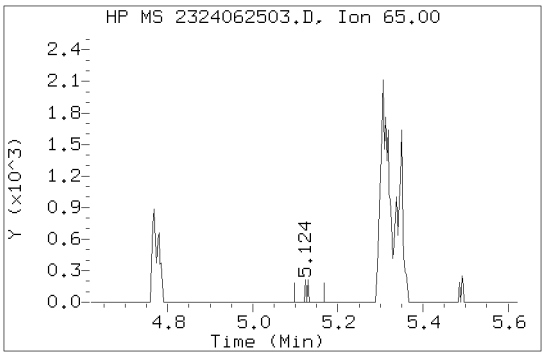
AFTER
MASS
63
AREA
204
HEIGHT
413
27-Jun-2024
16:06



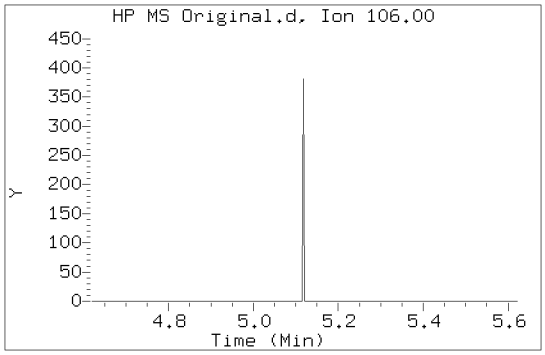
BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
20:00



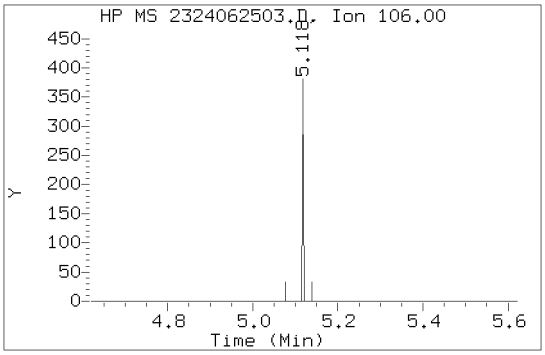
AFTER
MASS
65
AREA
75
HEIGHT
216
27-Jun-2024
16:06



BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
20:00



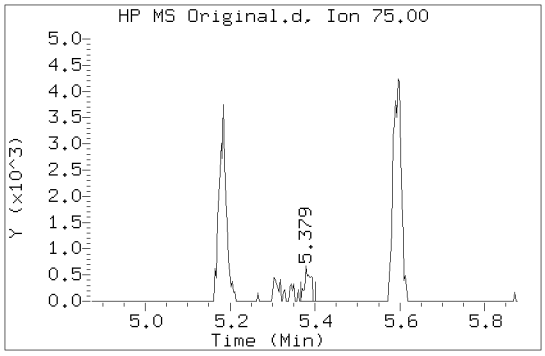
AFTER
MASS
106
AREA
66
HEIGHT
381
27-Jun-2024
16:06



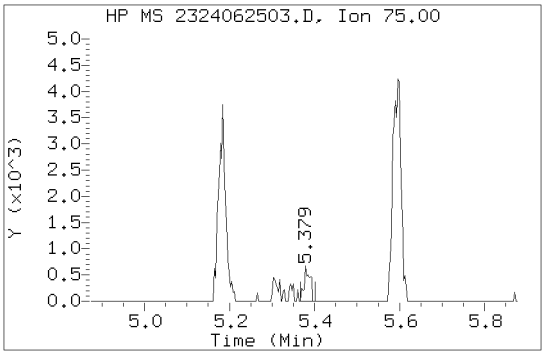
Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
75
AREA
640
HEIGHT
671
25-Jun-2024
20:00



AFTER
MASS
75
AREA
640
HEIGHT
671
27-Jun-2024
16:06

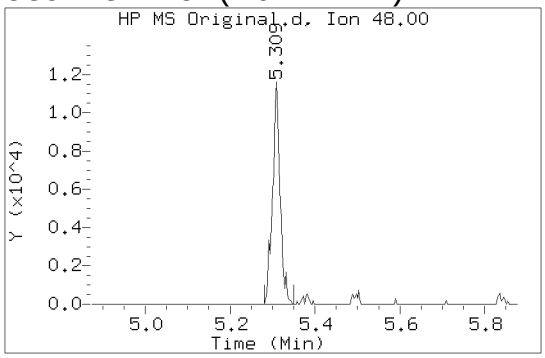


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Inj Date : 25-JUN-2024 11:40
InstruID : ms23.i
LabSampID : VSTD00.5

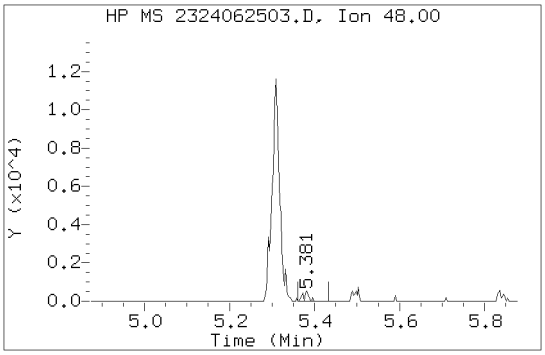
Chloroacetonitrile (107-14-2)

Reason Code: H

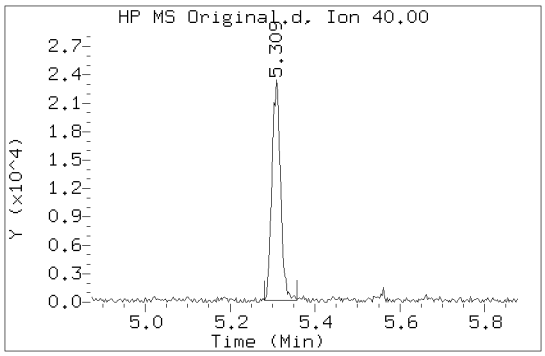
BEFORE
MASS
48
AREA
14189
HEIGHT
11615
25-Jun-2024
20:00



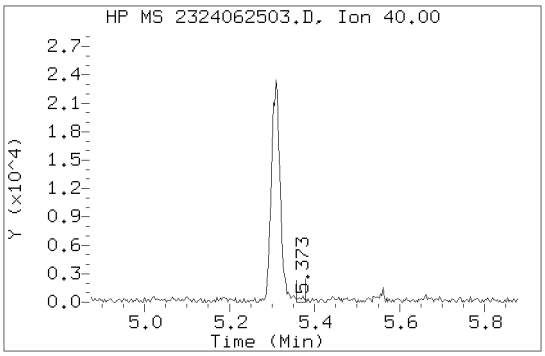
AFTER
MASS
48
AREA
437
HEIGHT
525
27-Jun-2024
16:06



BEFORE
MASS
40
AREA
32224
HEIGHT
23245
25-Jun-2024
20:00



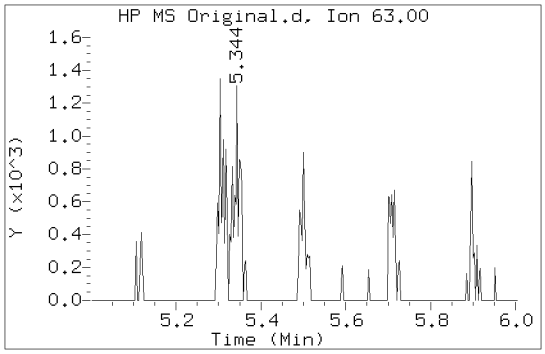
AFTER
MASS
40
AREA
558
HEIGHT
693
27-Jun-2024
16:06



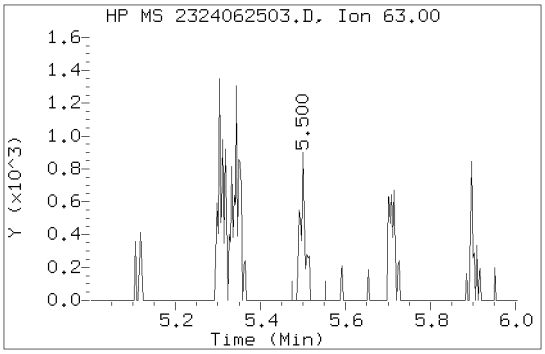
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

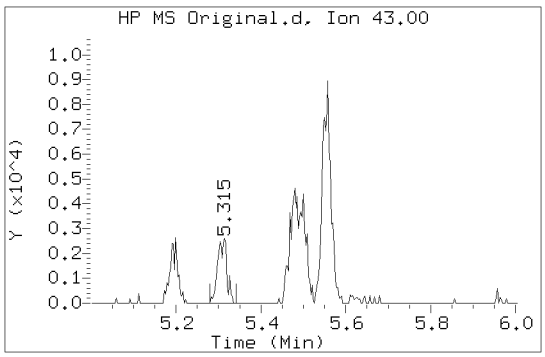
BEFORE
MASS
63
AREA
1262
HEIGHT
1307
25-Jun-2024
20:00



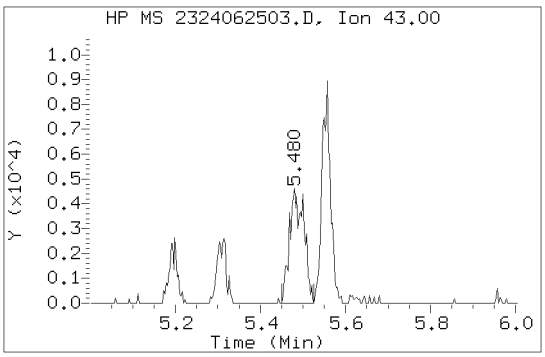
AFTER
MASS
63
AREA
694
HEIGHT
902
27-Jun-2024
16:06



BEFORE
MASS
43
AREA
3971
HEIGHT
2607
25-Jun-2024
20:00



AFTER
MASS
43
AREA
10767
HEIGHT
4643
27-Jun-2024
16:06

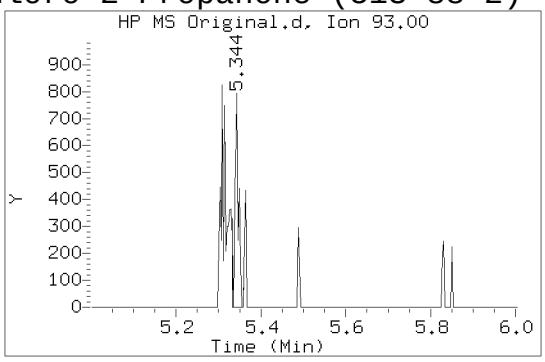


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InstruID : ms23.i
LabSampID : VSTD00.5

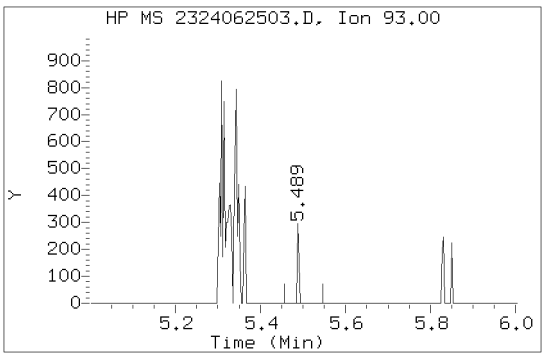
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

BEFORE
MASS
93
AREA
515
HEIGHT
795
25-Jun-2024
20:00



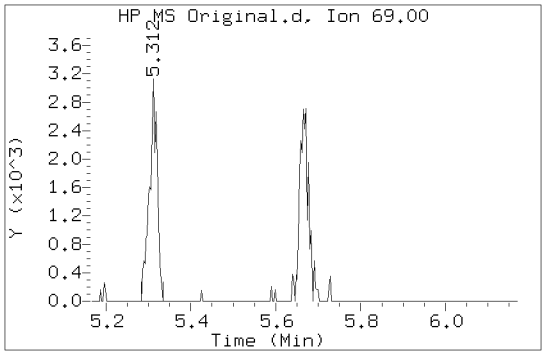
AFTER
MASS
93
AREA
77
HEIGHT
297
27-Jun-2024
16:06



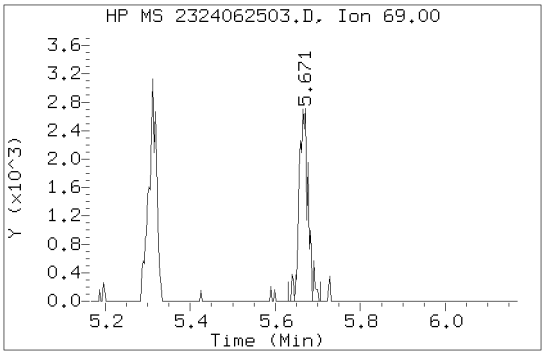
Ethyl Methacrylate (97-63-2)

Reason Code: H

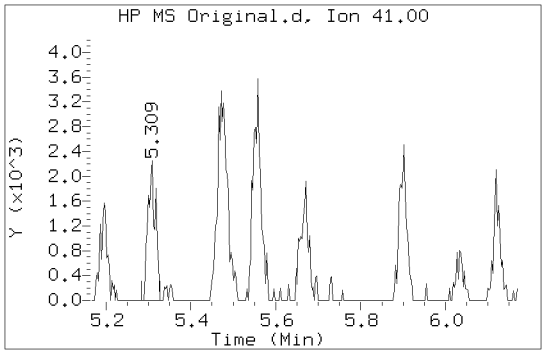
BEFORE
MASS
69
AREA
3916
HEIGHT
3129
25-Jun-2024
20:00



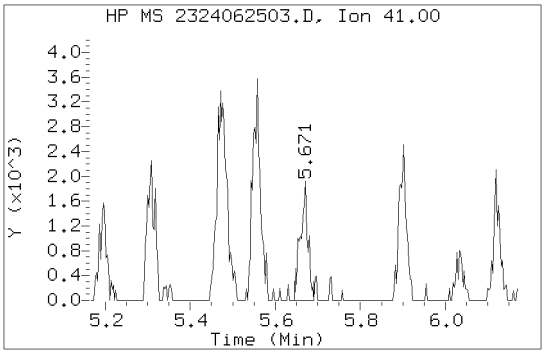
AFTER
MASS
69
AREA
3894
HEIGHT
2718
27-Jun-2024
16:06



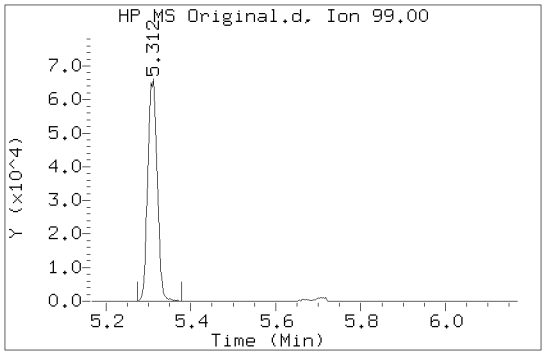
BEFORE
MASS
41
AREA
2676
HEIGHT
2255
25-Jun-2024
20:00



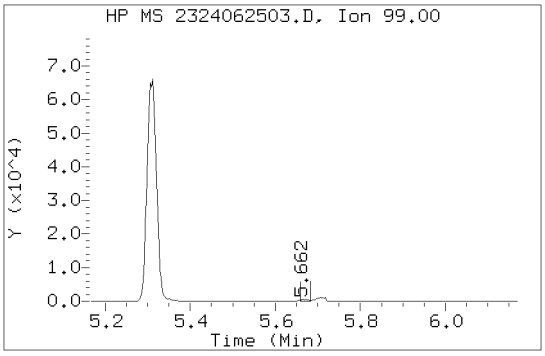
AFTER
MASS
41
AREA
2276
HEIGHT
1919
27-Jun-2024
16:06



BEFORE
MASS
99
AREA
100854
HEIGHT
66144
25-Jun-2024
20:00



AFTER
MASS
99
AREA
575
HEIGHT
563
27-Jun-2024
16:06

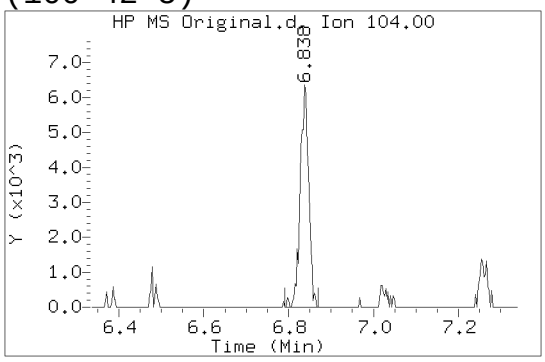


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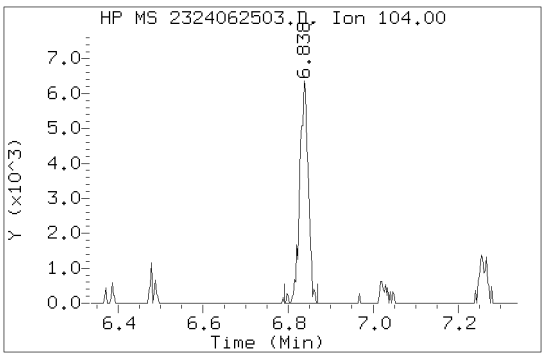
Styrene (100-42-5)

Reason Code: MP

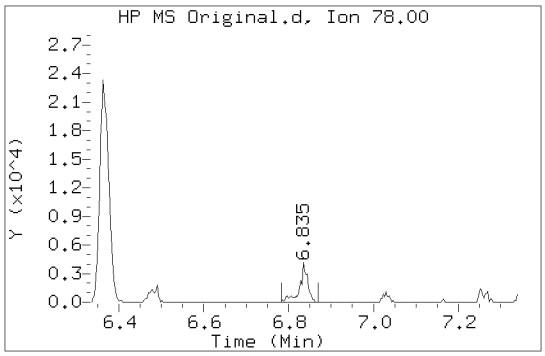
BEFORE
MASS
104
AREA
8632
HEIGHT
6361
25-Jun-2024
20:00



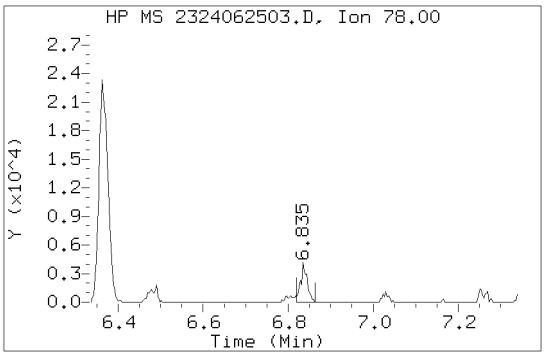
AFTER
MASS
104
AREA
8632
HEIGHT
6361
27-Jun-2024
16:06



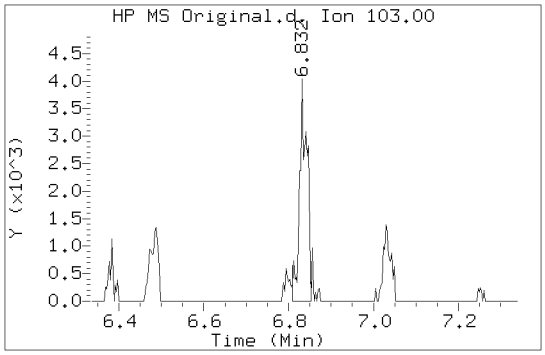
BEFORE
MASS
78
AREA
5220
HEIGHT
4171
25-Jun-2024
20:00



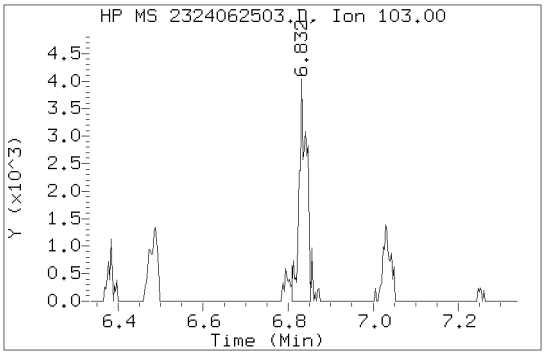
AFTER
MASS
78
AREA
4228
HEIGHT
4169
27-Jun-2024
16:06



BEFORE
MASS
103
AREA
4714
HEIGHT
4039
25-Jun-2024
20:00



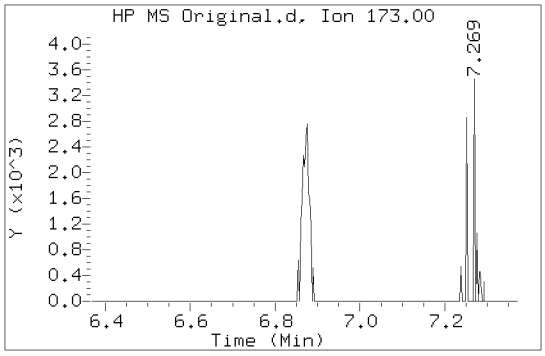
AFTER
MASS
103
AREA
4714
HEIGHT
4039
27-Jun-2024
16:06



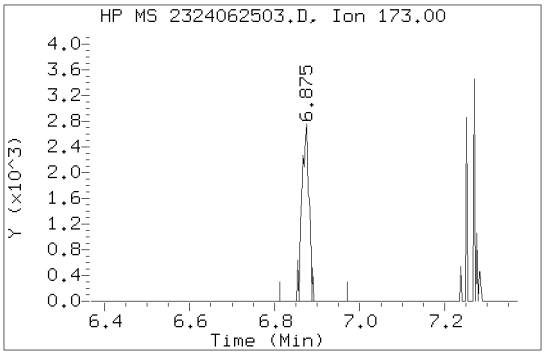
Bromoform (75-25-2)

Reason Code: H

BEFORE
MASS
173
AREA
969
HEIGHT
3458
25-Jun-2024
20:00



AFTER
MASS
173
AREA
3134
HEIGHT
2756
27-Jun-2024
16:06

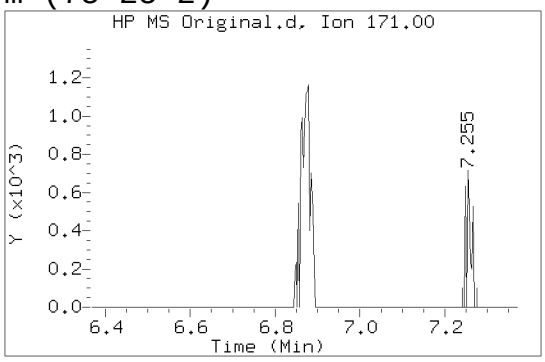


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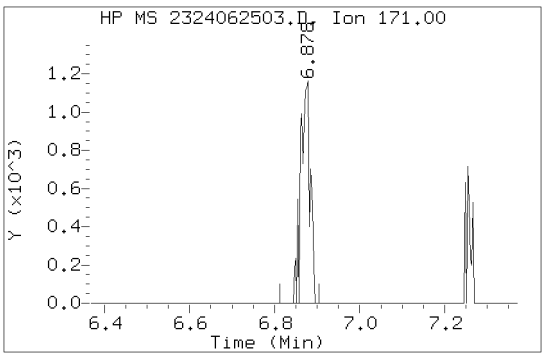
Bromoform (75-25-2)

Reason Code: H

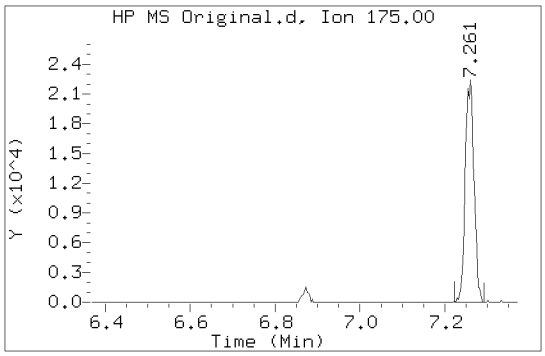
BEFORE
MASS
171
AREA
491
HEIGHT
715
25-Jun-2024
20:00



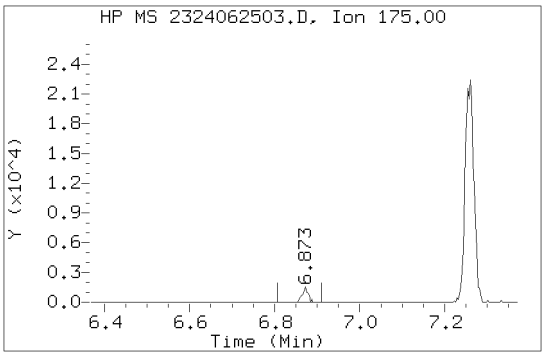
AFTER
MASS
171
AREA
1792
HEIGHT
1163
27-Jun-2024
16:06



BEFORE
MASS
175
AREA
31587
HEIGHT
22424
25-Jun-2024
20:00



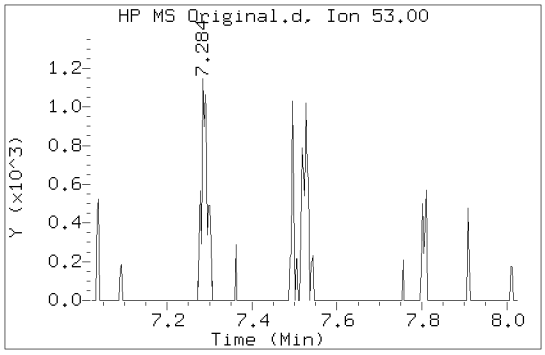
AFTER
MASS
175
AREA
1381
HEIGHT
1544
27-Jun-2024
16:06



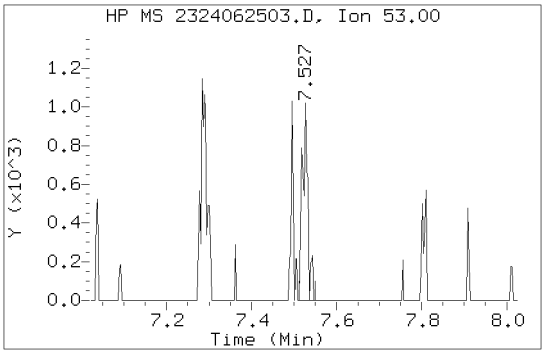
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

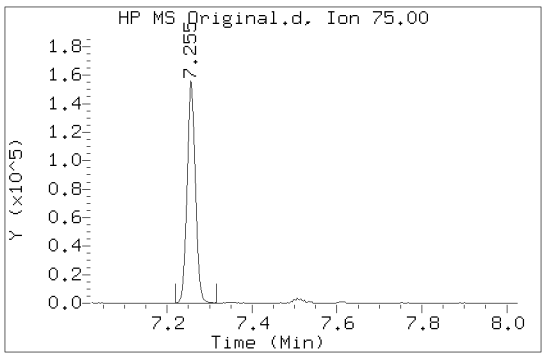
BEFORE
MASS
53
AREA
1185
HEIGHT
1146
25-Jun-2024
20:00



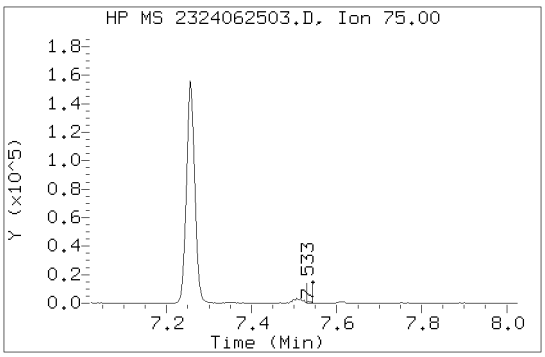
AFTER
MASS
53
AREA
917
HEIGHT
1022
27-Jun-2024
16:06



BEFORE
MASS
75
AREA
215842
HEIGHT
155968
25-Jun-2024
20:00



AFTER
MASS
75
AREA
780
HEIGHT
1416
27-Jun-2024
16:06

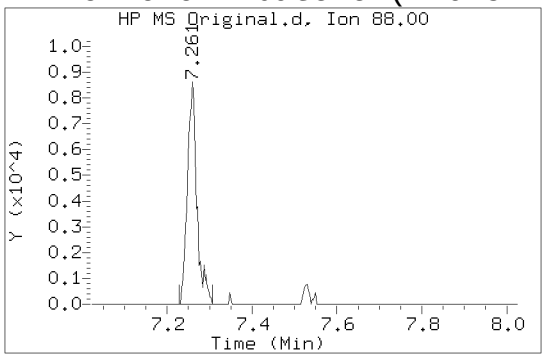


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LabSampID : VSTD00.5

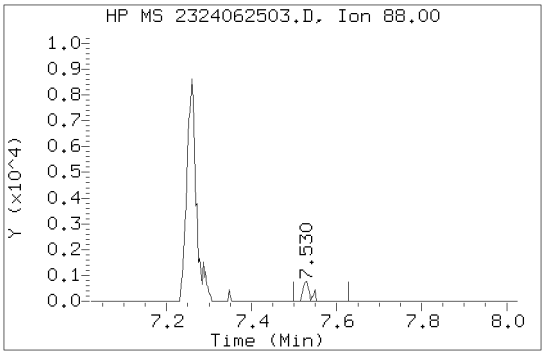
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

BEFORE
MASS
88
AREA
13572
HEIGHT
8622
25-Jun-2024
20:00



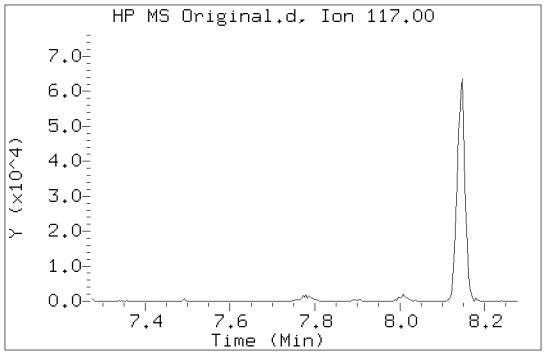
AFTER
MASS
88
AREA
843
HEIGHT
777
27-Jun-2024
16:06



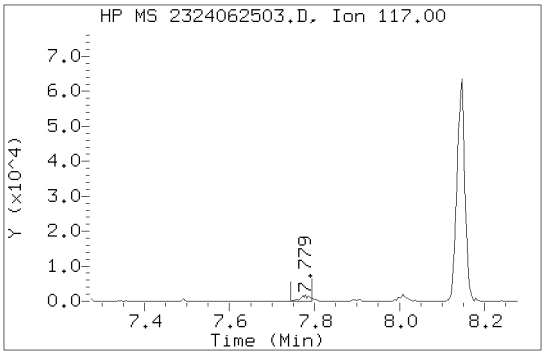
Pentachloroethane (76-01-7)

Reason Code: H

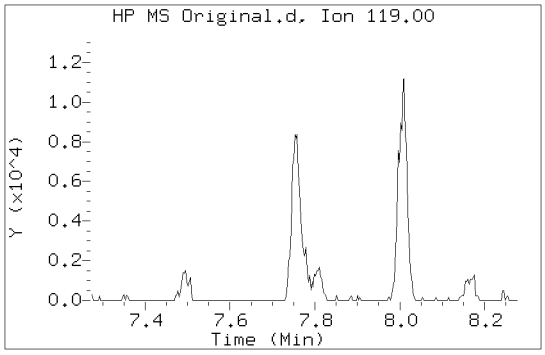
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
20:00



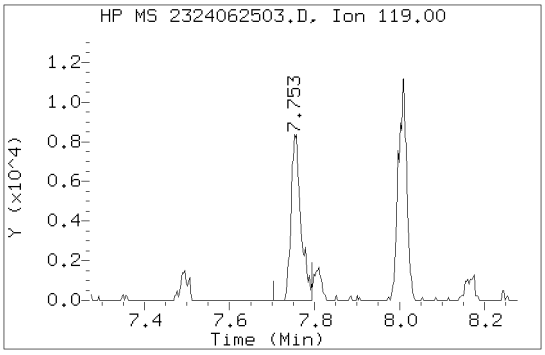
AFTER
MASS
117
AREA
2432
HEIGHT
1843
27-Jun-2024
16:06



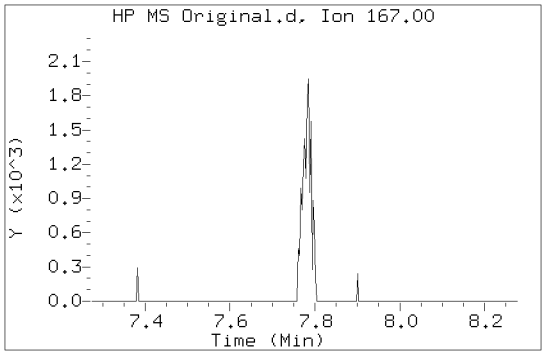
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
20:00



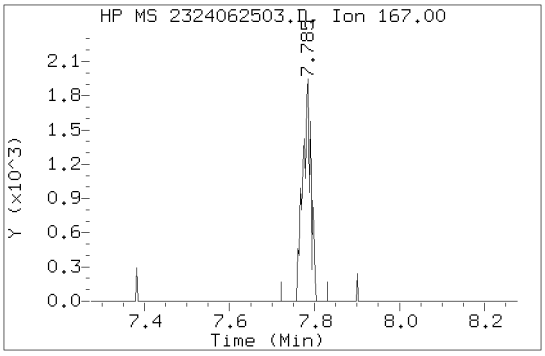
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27-Jun-2024
16:06



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20:00



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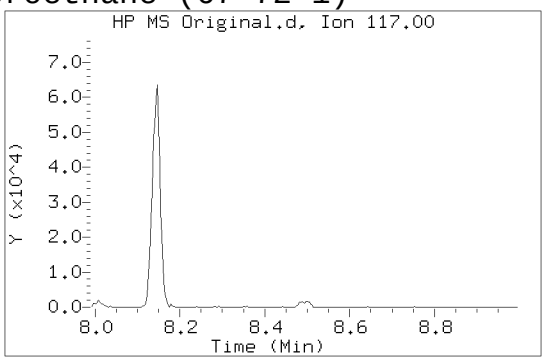


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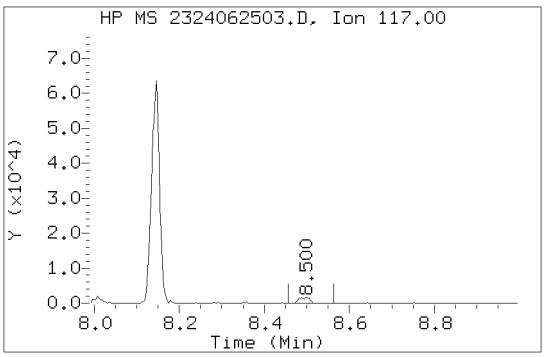
Hexachloroethane (67-72-1)

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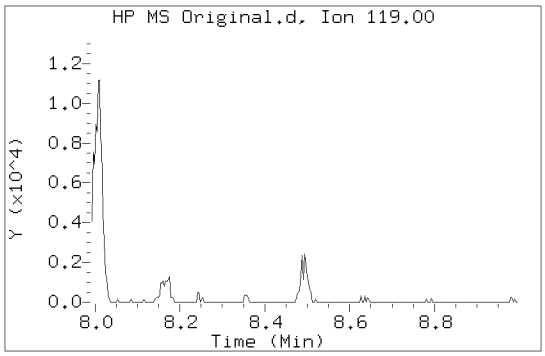
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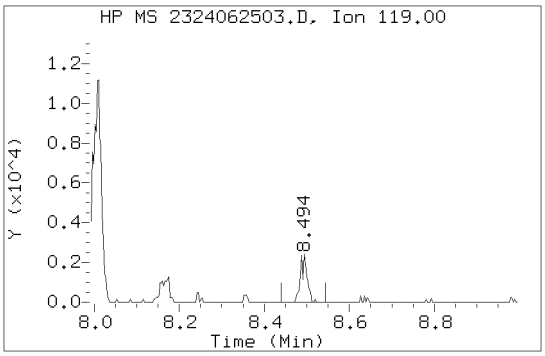
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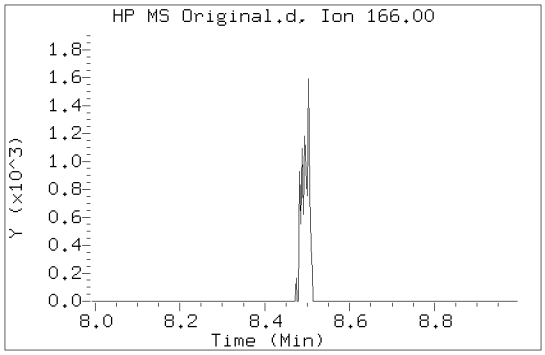
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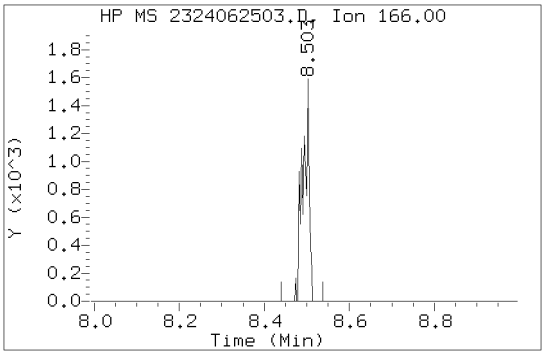
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20:00



AFTER
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27-Jun-2024
16:06



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:06
Client ID:
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Inj Date: 25-JUN-2024 11:40
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062504.D Page 1
Report Date: 27-Jun-2024 16:07

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

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Operator : ILY Inst ID: ms23.i
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Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.632	1.632	(0.375)	11485	1.00000	0.819389(a)	
2 Chloromethane	50	1.779	1.780	(0.409)	8241	1.00000	0.962334(a)	
3 Vinyl Chloride	62	1.849	1.849	(0.424)	6846	1.00000	0.811527(a)	
4 Bromomethane	94	2.072	2.072	(0.476)	6090	1.00000	0.966749(a)	
5 Chloroethane	64	2.156	2.156	(0.495)	3851	1.00000	0.829629(a)	
6 Pentane	41	2.251	2.252	(0.517)	6099	1.00000	1.07464	
7 Trichlorofluoromethane	101	2.254	2.255	(0.518)	14903	1.00000	0.829788(a)	
8 Dichlorofluoromethane	67	2.277	2.278	(0.523)	12697	1.00000	0.837477(a)	
9 Ethyl Ether	74	2.445	2.446	(0.561)	4288	1.00000	0.905918(a)	
10 1,1-Dichloroethene	61	2.581	2.582	(0.593)	9728	1.00000	0.908573(a)	
11 Freon 113	101	2.593	2.593	(0.595)	6445	1.00000	0.884924(a)	
12 Carbon Disulfide	76	2.619	2.619	(0.601)	17003	1.00000	0.818708(a)	
13 Iodomethane	127	2.686	2.686	(0.617)	2825	1.00000	0.734471(a)	
14 Acrolein	56	2.767	2.767	(0.635)	5565	5.00000	4.13358	
15 Isopropyl Alcohol	45	2.819	2.819	(0.647)	4164	5.00000	5.51432	
16 3-Chloro-1-propene	41	2.848	2.848	(0.654)	6383	1.00000	0.967948(a)	
17 Methylene Chloride	84	2.908	2.909	(0.668)	7063	1.00000	0.910319(a)	
18 Acetone	58	2.923	2.923	(0.671)	3072	5.00000	4.29504(Q)	
19 Methyl acetate	74	2.998	2.999	(0.688)	1655	1.00000	0.919134(aQ)	
20 trans-1,2-Dichloroethene	61	3.004	3.005	(0.690)	8745	1.00000	0.890893(a)	
21 Hexane	57	3.042	3.042	(0.698)	13974	1.00000	0.959926(a)	
22 Methyl t-Butyl Ether	73	3.050	3.051	(0.700)	22270	1.00000	0.849951(a)	

Data File: 2324062504.D
Report Date: 27-Jun-2024 16:07

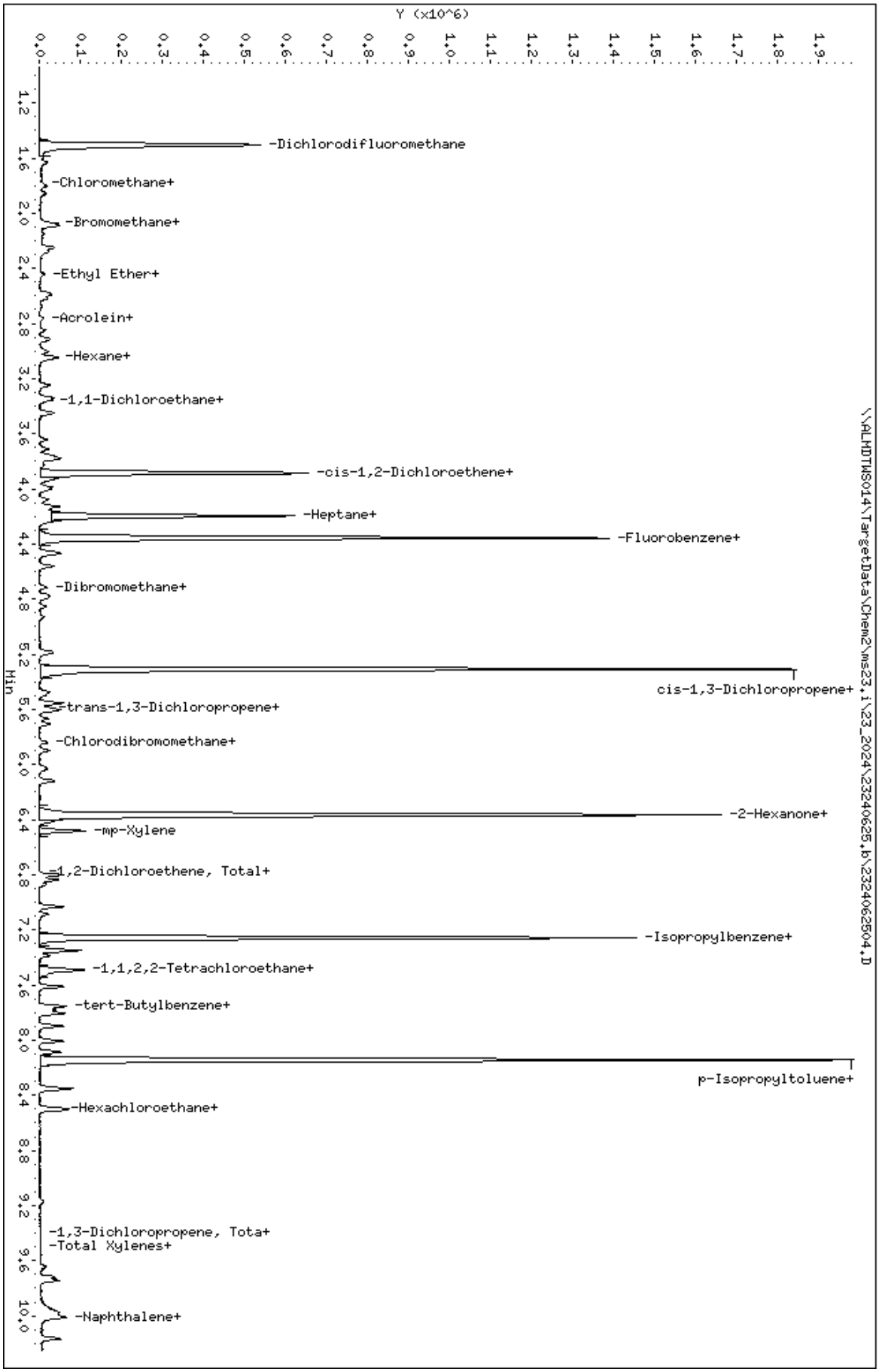
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.065	3.065	(0.704)	4536	5.00000	4.15567	
	24 Acetonitrile	41	3.186	3.187	(0.732)	3492	5.00000	4.23912	
	25 Diisopropyl ether	45	3.244	3.245	(0.745)	15381	1.00000	0.848658(a)	
	26 Chloroprene	53	3.328	3.329	(0.764)	11526	1.00000	1.15271(M)	MP
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	11278	1.00000	1.00755	
	28 Acrylonitrile	53	3.357	3.358	(0.771)	12112	5.00000	4.54794(M)	MP
	29 Ethyl tert-butyl ether	59	3.447	3.448	(0.791)	20746	1.00000	1.00814	
	30 n-Propanol	41	3.447	3.448	(0.791)	3625	10.0000	8.54672	
	31 Vinyl Acetate	86	3.441	3.442	(0.790)	1806	1.00000	1.08006(Q)	
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	8353	1.00000	0.822451(a)	
	33 2,2-Dichloropropane	77	3.713	3.714	(0.852)	11365	1.00000	0.847855(a)	
	34 Bromochloromethane	128	3.754	3.754	(0.862)	3991	1.00000	0.813922(aQ)	
	35 Cyclohexane	84	3.789	3.789	(0.870)	10947	1.00000	0.961022(a)	
	36 Chloroform	83	3.774	3.775	(0.866)	15642	1.00000	0.918188(a)	
	37 Ethyl Acetate	43	3.818	3.818	(0.876)	6648	1.00000	0.887915(a)	
	38 Methyl acrylate	55	3.829	3.830	(0.879)	6069	1.00000	1.02710	
	39 Carbon Tetrachloride	117	3.893	3.893	(0.894)	11155	1.00000	0.946988(aM)	MP
$	41 Dibromofluoromethane	113	3.884	3.885	(0.892)	283413	30.0000	30.1830	
	40 Tetrahydrofuran	42	3.887	3.888	(0.892)	8528	5.00000	4.30988	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	13288	1.00000	0.853398(a)	
	43 2-Butanone	72	3.951	3.951	(0.907)	4681	5.00000	4.25341	
	44 1,1-Dichloropropene	75	3.986	3.986	(0.915)	9858	1.00000	0.889422(a)	
	45 1-Chlorobutane	41	4.003	4.003	(0.919)	6906	1.00000	0.959213(a)	
	46 Heptane	71	4.078	4.078	(0.936)	4295	1.00000	0.838655(aQ)	
	47 Benzene	78	4.127	4.128	(0.947)	26389	1.00000	0.907210(a)	
	48 Propionitrile	54	4.104	4.105	(0.942)	4493	5.00000	4.73000(Q)	
	49 Methacrylonitrile	67	4.130	4.131	(0.948)	2854	1.00000	0.803462(aQM)	H
	50 tert-Amyl methyl ether	73	4.165	4.166	(0.956)	19739	1.00000	0.961070(a)	
	54 Isobutyl alcohol	42	4.168	4.168	(0.957)	1721	10.0000	8.39744(QM)	H
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	373537	30.0000	31.0744	
	52 1,2-Dichloroethane	62	4.235	4.235	(0.972)	12148	1.00000	0.885136(a)	
	53 tert-Amyl Alcohol	59	4.246	4.247	(0.975)	4167	5.00000	5.12292(Q)	
*	55 Fluorobenzene	96	4.356	4.357	(1.000)	955511	30.0000		
	56 Diisobutylene	57	4.356	4.357	(1.000)	41095	1.00000	0.968498(aQ)	
	57 Trichloroethene	95	4.457	4.458	(1.023)	8380	1.00000	0.940445(a)	
	58 Methyl cyclohexane	83	4.469	4.470	(0.702)	10658	1.00000	0.885905(a)	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	14614	1.00000	0.831018(a)	
	60 Dibromomethane	93	4.715	4.716	(1.082)	5350	1.00000	0.933695(a)	
	61 1,2-Dichloropropane	63	4.767	4.768	(1.094)	5786	1.00000	0.912163(a)	
	62 Bromodichloromethane	83	4.790	4.791	(1.100)	10103	1.00000	0.826914(a)	
	63 Methyl methacrylate	41	4.854	4.855	(1.114)	5296	1.00000	0.939368(aM)	IH
	64 1,4-Dioxane	88	4.906	4.907	(1.126)	2721	25.0000	22.0121(Q)	
	65 2-Chloroethylvinyl ether	63	5.121	5.121	(1.175)	897	1.00000	3.00010(QM)	IH
	66 cis-1,3-Dichloropropene	75	5.181	5.182	(0.814)	10164	1.00000	0.975641(a)	
	67 Octane	85	5.193	5.193	(0.816)	3731	1.00000	0.793033(a)	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	996461	30.0000	29.6440	
	69 Toluene	92	5.343	5.344	(0.840)	18834	1.00000	0.912706(a)	
	70 Chloroacetonitrile	75	5.375	5.376	(0.845)	1948	5.00000	5.06947(QM)	H
	71 2-Nitropropane	41	5.474	5.474	(0.860)	10921	5.00000	4.66849	
	72 1,1-Dichloro-2-Propanone	63	5.503	5.503	(0.865)	1286	5.00000	4.42272(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	27457	5.00000	4.78334	
	75 trans-1,3-Dichloropropene	75	5.587	5.587	(0.878)	10951	1.00000	0.941499(a)	
	74 Tetrachloroethene	164	5.604	5.605	(0.881)	8368	1.00000	0.932817(a)	
	76 Ethyl Methacrylate	69	5.668	5.668	(0.891)	8230	1.00000	0.949995(aM)	H

Data File: 2324062504.D Page 3
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.705	5.706	(0.897)	5390	1.00000	0.880234(a)	
78	Chlorodibromomethane	129	5.839	5.839	(0.918)	9304	1.00000	1.00869	
79	1,3-Dichloropropane	76	5.896	5.897	(0.927)	11404	1.00000	0.887778(a)	
80	1,2-Dibromoethane	107	6.018	6.019	(0.946)	7522	1.00000	0.839088(a)	
81	2-Hexanone	43	6.122	6.123	(0.962)	18110	5.00000	4.58620	
82	1-Chlorohexane	91	6.331	6.331	(0.995)	9596	1.00000	0.890791(a)	
* 83	Chlorobenzene-d5	82	6.363	6.363	(1.000)	421722	30.0000		
84	Chlorobenzene	112	6.377	6.378	(1.002)	20837	1.00000	0.879082(a)	
85	Ethylbenzene	106	6.377	6.378	(1.002)	12180	1.00000	0.975185(a)	
86	1,1,1,2-Tetrachloroethane	131	6.418	6.418	(1.009)	8386	1.00000	0.862440(a)	
87	mp-Xylene	106	6.481	6.482	(1.019)	25646	2.00000	1.69832	
88	o-Xylene	106	6.797	6.797	(1.068)	12439	1.00000	0.837978(a)	
89	Styrene	104	6.837	6.838	(0.840)	20380	1.00000	0.959524(a)	
90	Bromoform	173	6.869	6.870	(0.844)	6236	1.00000	0.929308(a)	
91	Isopropylbenzene	105	7.034	7.035	(0.864)	31713	1.00000	0.937470(a)	
M 100	1,2-Dichloroethene, Total	61				17098	2.00000	1.71334	
$ 92	4-Bromofluorobenzene	174	7.257	7.258	(0.892)	395203	30.0000	27.9601	
93	Bromobenzene	156	7.350	7.350	(0.903)	11311	1.00000	0.931980(a)	
94	n-Propylbenzene	120	7.347	7.348	(0.903)	10310	1.00000	0.897145(aQ)	
95	1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.908)	8417	1.00000	0.838625(a)	
96	o-Chlorotoluene	91	7.489	7.489	(0.920)	27907	1.00000	0.890399(a)	
97	1,3,5-Trimethylbenzene	105	7.495	7.495	(0.921)	30561	1.00000	0.901974(a)	
98	1,2,3-Trichloropropane	110	7.506	7.507	(0.922)	3554	1.00000	0.834764(a)	
99	trans-1,4-Dichloro-2-butene	53	7.524	7.524	(0.924)	2713	1.00000	1.01160(QM)	MP
101	p-Chlorotoluene	91	7.613	7.614	(0.935)	25958	1.00000	0.895762(a)	
102	tert-Butylbenzene	134	7.755	7.756	(0.953)	7476	1.00000	0.881176(aQ)	
103	Pentachloroethane	117	7.776	7.776	(0.955)	6044	1.00000	0.967379(aM)	MP
104	1,2,4-Trimethylbenzene	105	7.805	7.805	(0.959)	29295	1.00000	0.851302(a)	
105	sec-Butylbenzene	105	7.894	7.895	(0.970)	34342	1.00000	0.851237(a)	
106	p-Isopropyltoluene	134	8.007	8.007	(0.984)	7831	1.00000	0.803611(a)	
107	1,3-Dichlorobenzene	146	8.088	8.089	(0.994)	20448	1.00000	0.956196(a)	
* 108	1,4-Dichlorobenzene-d4	152	8.140	8.141	(1.000)	488580	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	8.158	8.157	(1.002)	20316	1.00000	0.926778(aQ)	
110	Benzyl Chloride	126	8.352	8.352	(1.026)	3415	1.00000	0.980159(aQ)	
111	n-Butylbenzene	134	8.352	8.352	(1.026)	7608	1.00000	0.843580(aQ)	
112	Hexachloroethane	117	8.494	8.494	(1.043)	5536	1.00000	0.942627(a)	
113	1,2-Dichlorobenzene	146	8.508	8.509	(1.045)	18486	1.00000	0.890472(a)	
114	1,2-Dibromo-3-chloropropane	75	9.171	9.172	(1.127)	2196	1.00000	0.793230(a)	
115	Nitrobenzene	77	9.646	9.646	(1.185)	5139	10.0000	23.8518	
116	Hexachlorobutadiene	225	9.721	9.722	(1.194)	6969	1.00000	0.975887(a)	
M 120	1,3-Dichloropropene, Total	75				21115	2.00000	1.91714	
117	1,2,4-Trichlorobenzene	180	9.744	9.745	(1.197)	11835	1.00000	0.823938(a)	
M 121	Total Xylenes	106				38085	3.00000	2.53630	
118	Naphthalene	128	10.014	10.014	(1.230)	27574	1.00000	0.900420(a)	
119	1,2,3-Trichlorobenzene	180	10.167	10.168	(1.249)	11698	1.00000	0.823012(a)	

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.

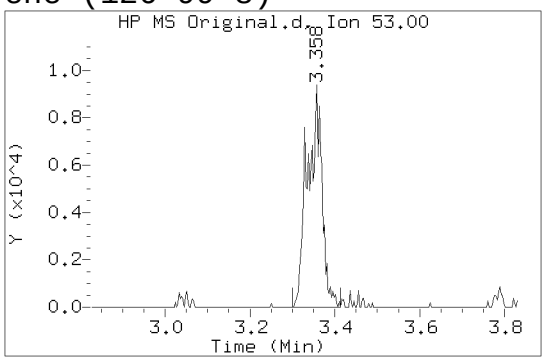

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-Bromomethane+
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-Hexane+
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Instrument: ms23,i
Operator: ILY
Column diameter: 0.25
Page 1

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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

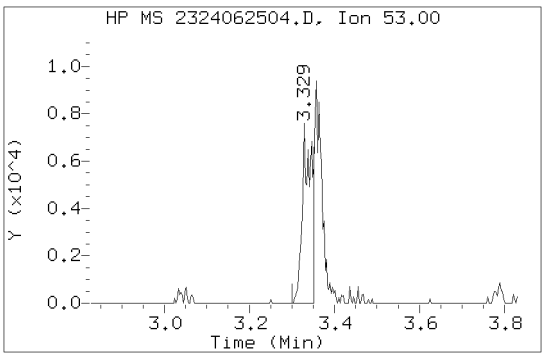
Chloroprene (126-99-8)

Reason Code: MP

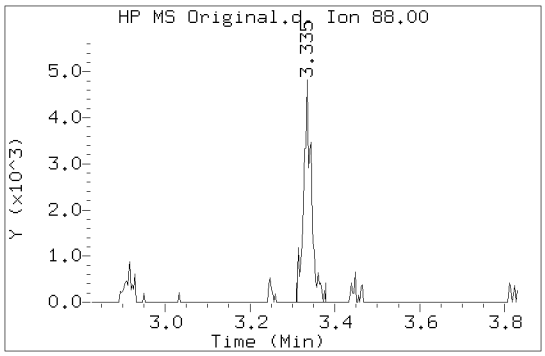
BEFORE
MASS
53
AREA
21791
HEIGHT
9391
25-Jun-2024
19:54



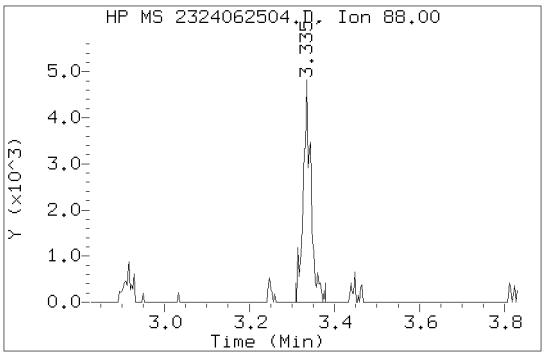
AFTER
MASS
53
AREA
11526
HEIGHT
7608
27-Jun-2024
16:07



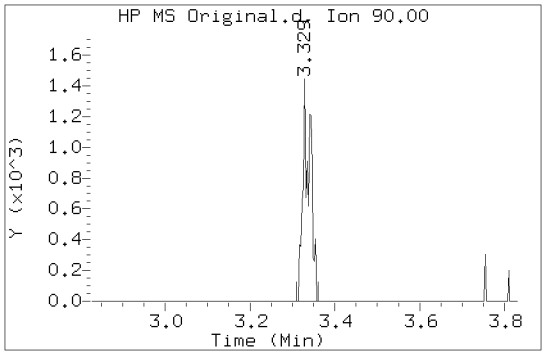
BEFORE
MASS
88
AREA
5895
HEIGHT
4821
25-Jun-2024
19:54



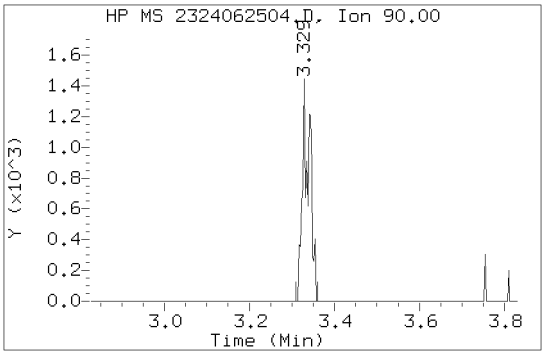
AFTER
MASS
88
AREA
5895
HEIGHT
4821
27-Jun-2024
16:07



BEFORE
MASS
90
AREA
1737
HEIGHT
1445
25-Jun-2024
19:54



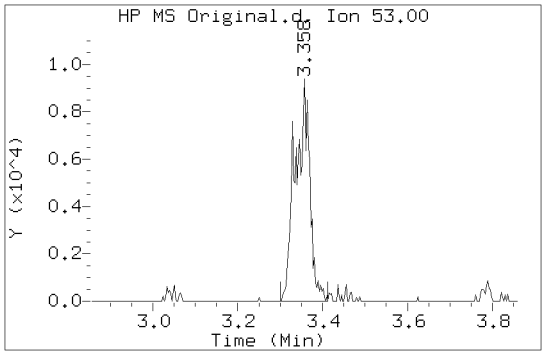
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MASS
90
AREA
1737
HEIGHT
1445
27-Jun-2024
16:07



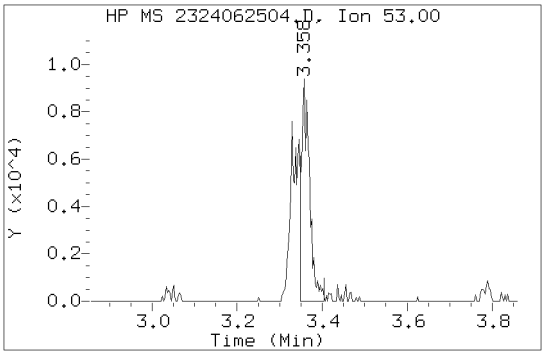
Acrylonitrile (107-13-1)

Reason Code: MP

BEFORE
MASS
53
AREA
21791
HEIGHT
9391
25-Jun-2024
19:54



AFTER
MASS
53
AREA
12112
HEIGHT
9381
27-Jun-2024
16:07

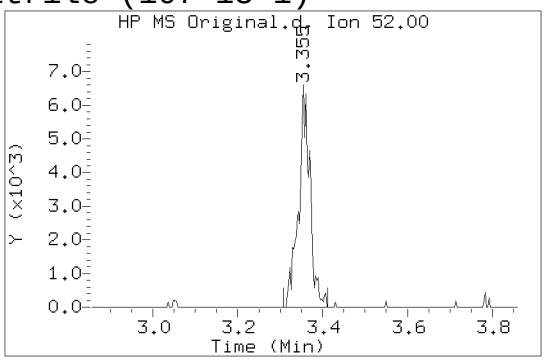


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InstruID : ms23.i
LabSampID : 1234

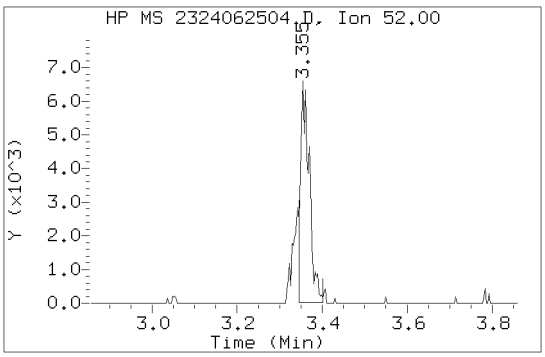
Acrylonitrile (107-13-1)

Reason Code: MP

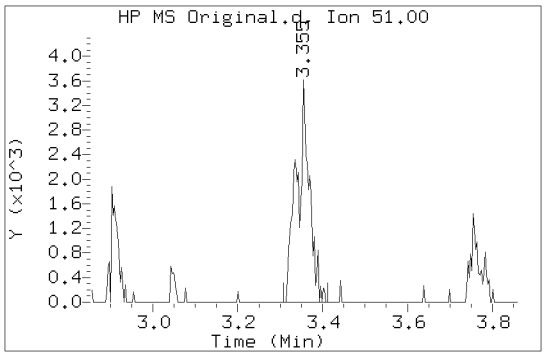
BEFORE
MASS
52
AREA
12102
HEIGHT
6602
25-Jun-2024
19:54



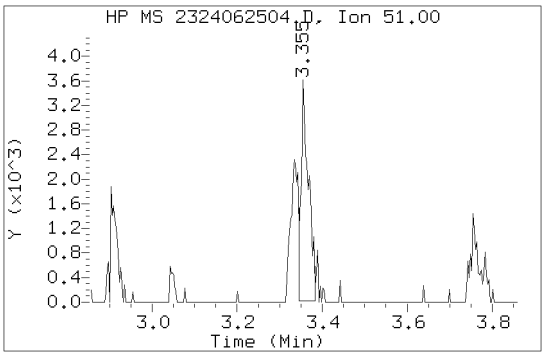
AFTER
MASS
52
AREA
9197
HEIGHT
6587
27-Jun-2024
16:07



BEFORE
MASS
51
AREA
7434
HEIGHT
3615
25-Jun-2024
19:54



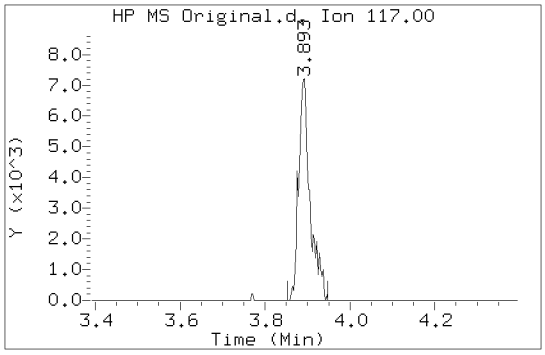
AFTER
MASS
51
AREA
4280
HEIGHT
3594
27-Jun-2024
16:07



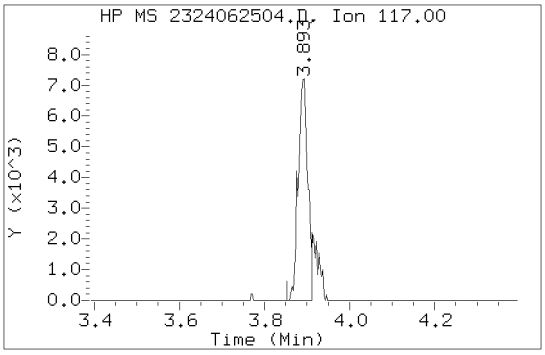
Carbon Tetrachloride (56-23-5)

Reason Code: MP

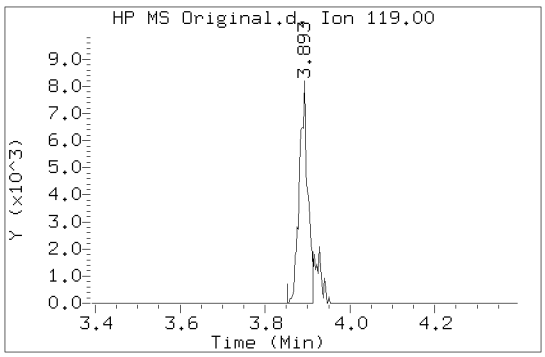
BEFORE
MASS
117
AREA
13406
HEIGHT
7217
25-Jun-2024
19:54



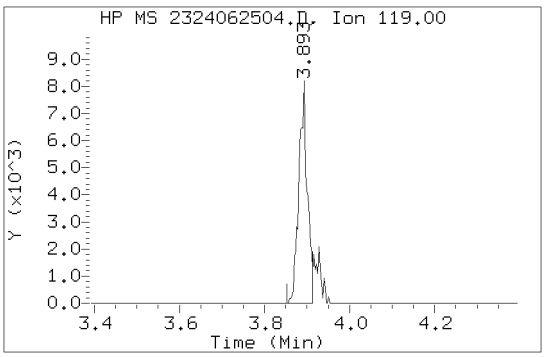
AFTER
MASS
117
AREA
11155
HEIGHT
7217
27-Jun-2024
16:07



BEFORE
MASS
119
AREA
11143
HEIGHT
8205
25-Jun-2024
19:54



AFTER
MASS
119
AREA
11143
HEIGHT
8205
27-Jun-2024
16:07

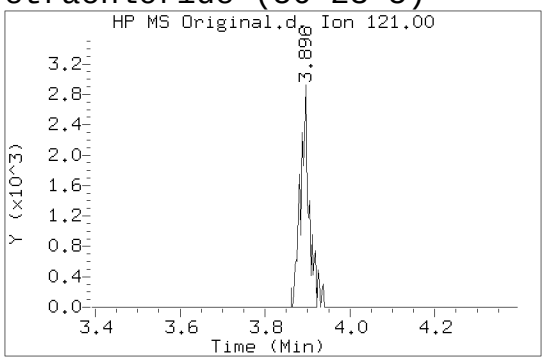


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Inj Date : 25-JUN-2024 12:00
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LabSampID : 1234

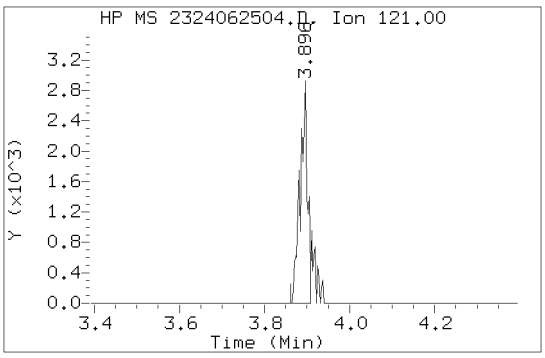
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
3890
HEIGHT
2925
25-Jun-2024
19:54



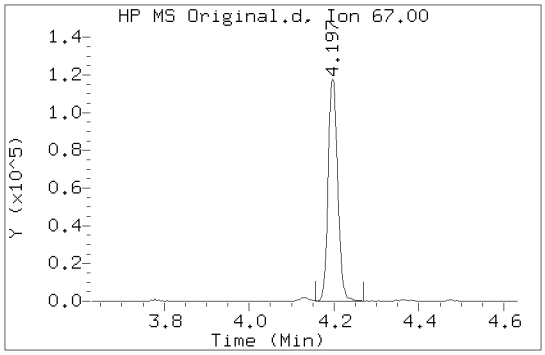
AFTER
MASS
121
AREA
3414
HEIGHT
2925
27-Jun-2024
16:07



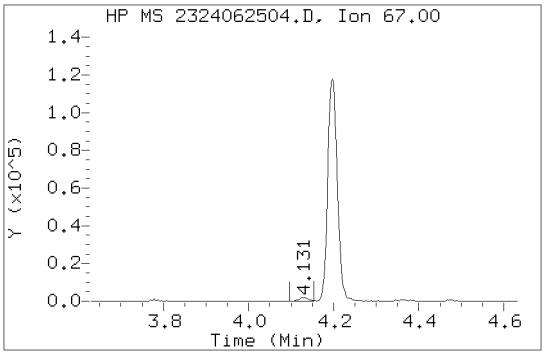
Methacrylonitrile (126-98-7)

Reason Code: H

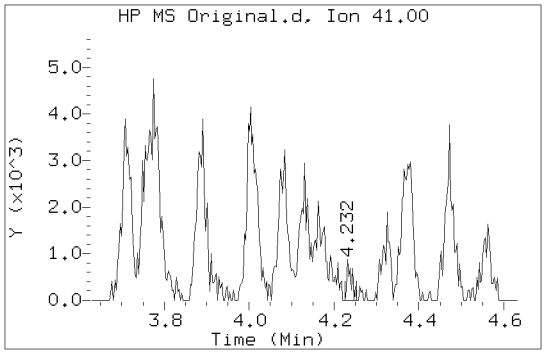
BEFORE
MASS
67
AREA
182848
HEIGHT
117936
25-Jun-2024
19:54



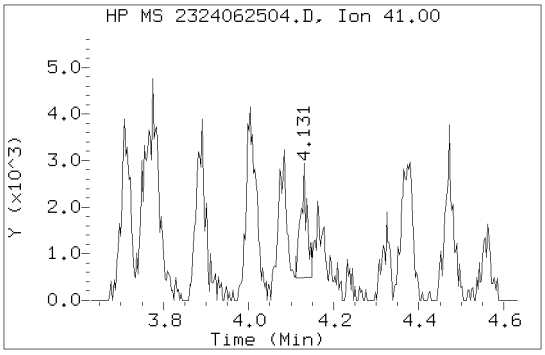
AFTER
MASS
67
AREA
2854
HEIGHT
2097
27-Jun-2024
16:07



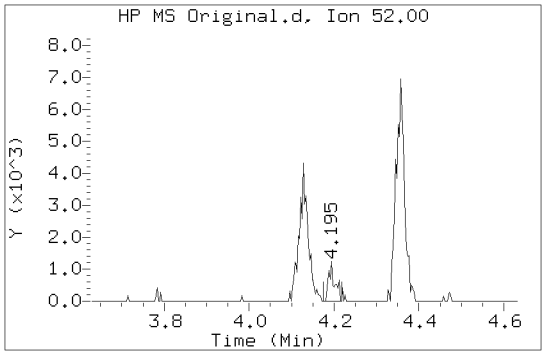
BEFORE
MASS
41
AREA
607
HEIGHT
883
25-Jun-2024
19:54



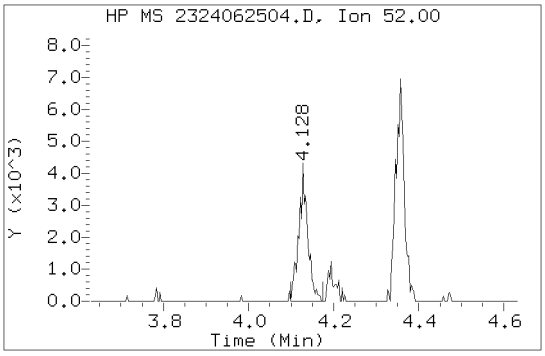
AFTER
MASS
41
AREA
2432
HEIGHT
2450
27-Jun-2024
16:07



BEFORE
MASS
52
AREA
1212
HEIGHT
1240
25-Jun-2024
19:54



AFTER
MASS
52
AREA
6070
HEIGHT
4317
27-Jun-2024
16:07

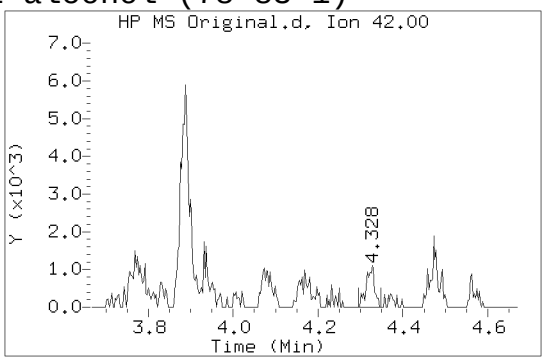


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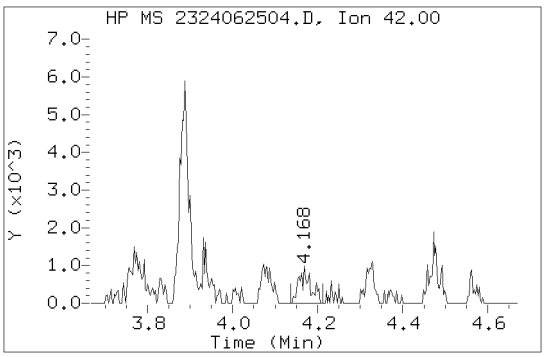
Isobutyl alcohol (78-83-1)

Reason Code: H

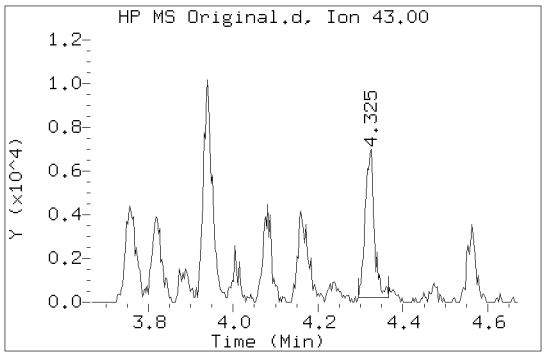
BEFORE
MASS
42
AREA
1496
HEIGHT
1104
25-Jun-2024
19:54



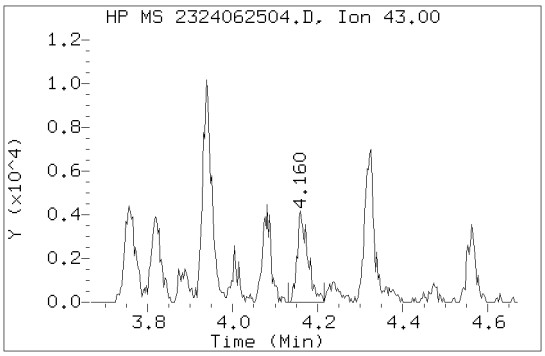
AFTER
MASS
42
AREA
1721
HEIGHT
997
27-Jun-2024
16:07



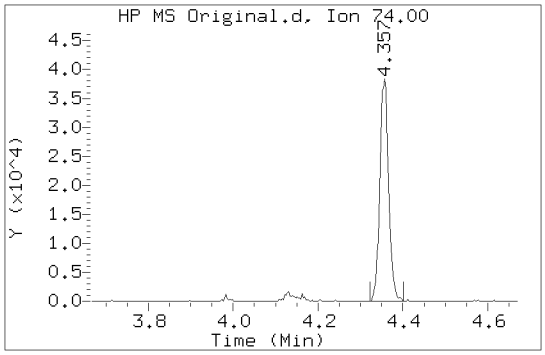
BEFORE
MASS
43
AREA
10073
HEIGHT
6802
25-Jun-2024
19:54



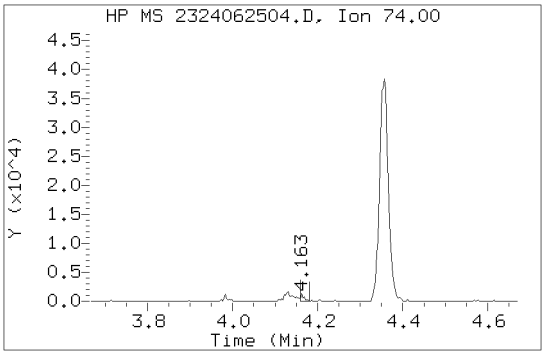
AFTER
MASS
43
AREA
7101
HEIGHT
4186
27-Jun-2024
16:07



BEFORE
MASS
74
AREA
54987
HEIGHT
38368
25-Jun-2024
19:54



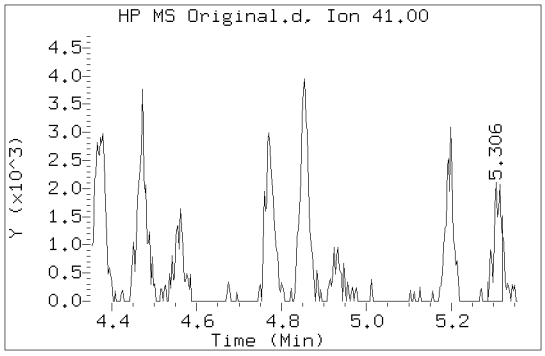
AFTER
MASS
74
AREA
648
HEIGHT
1334
27-Jun-2024
16:07



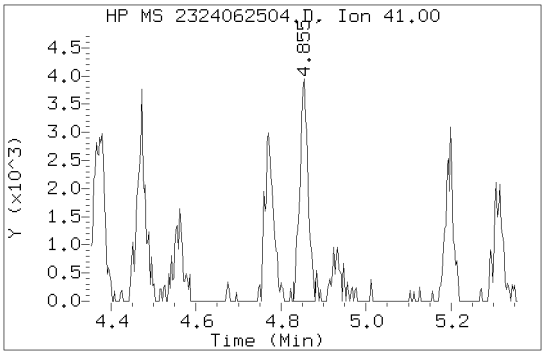
Methyl methacrylate (80-62-6)

Reason Code: IH

BEFORE
MASS
41
AREA
2573
HEIGHT
2112
25-Jun-2024
19:54



AFTER
MASS
41
AREA
5296
HEIGHT
3948
27-Jun-2024
16:07

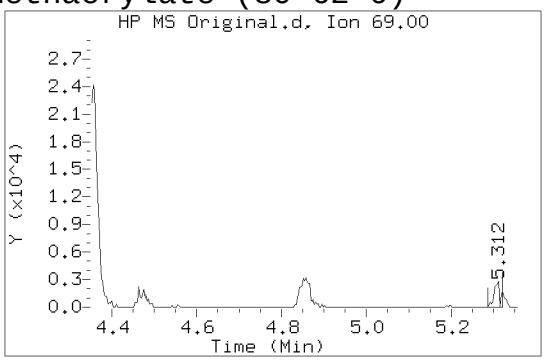


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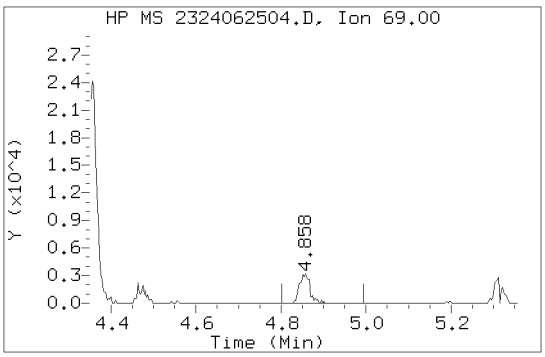
Methyl methacrylate (80-62-6)

Reason Code: IH

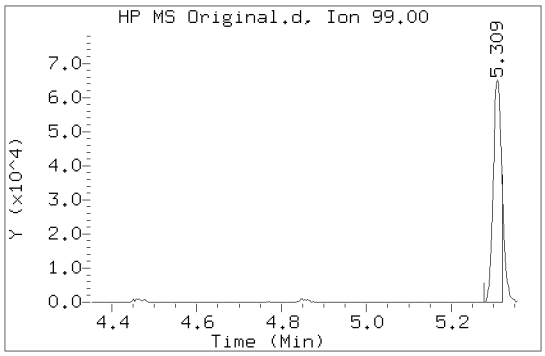
BEFORE
MASS
69
AREA
2887
HEIGHT
2780
25-Jun-2024
19:54



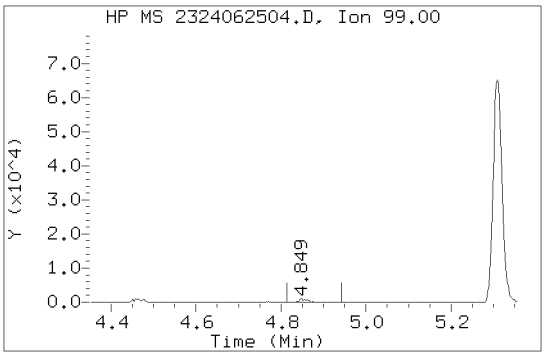
AFTER
MASS
69
AREA
5358
HEIGHT
3212
27-Jun-2024
16:07



BEFORE
MASS
99
AREA
86190
HEIGHT
65176
25-Jun-2024
19:54



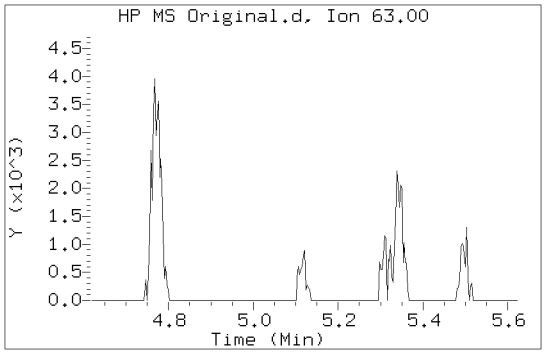
AFTER
MASS
99
AREA
1152
HEIGHT
1069
27-Jun-2024
16:07



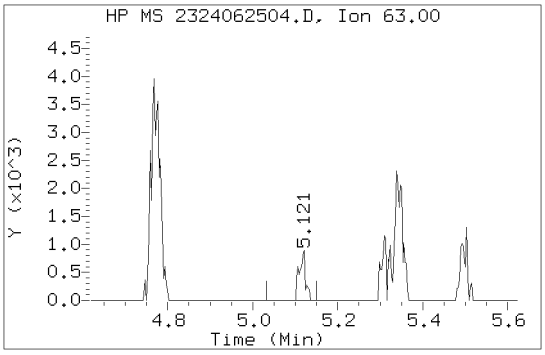
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

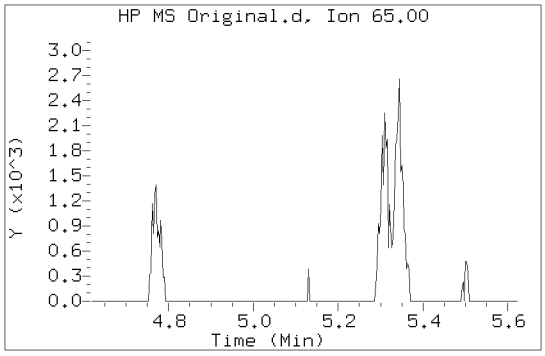
BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
19:54



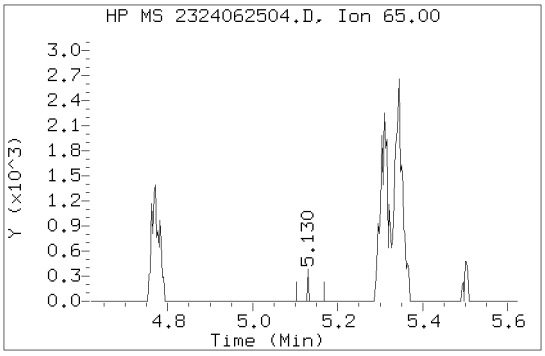
AFTER
MASS
63
AREA
897
HEIGHT
897
27-Jun-2024
16:07



BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
19:54



AFTER
MASS
65
AREA
67
HEIGHT
387
27-Jun-2024
16:07

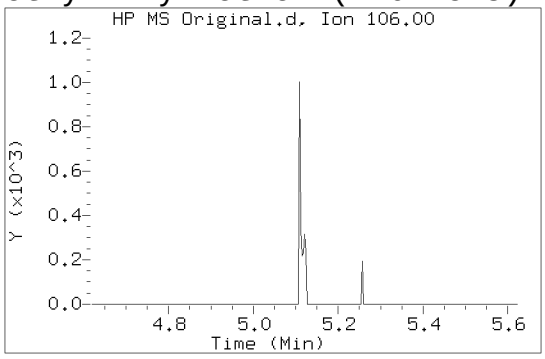


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

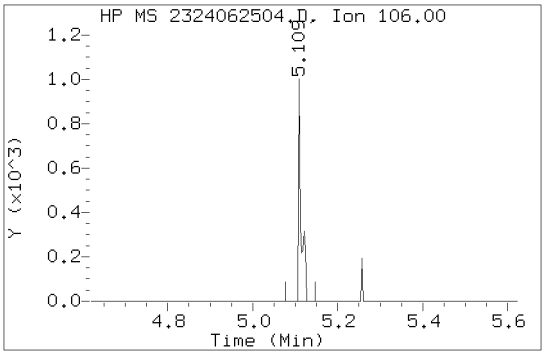
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
19:54



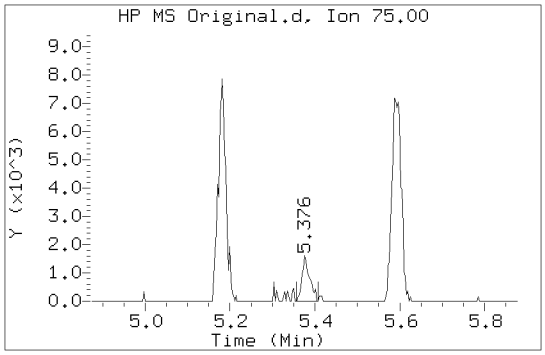
AFTER
MASS
106
AREA
406
HEIGHT
1002
27-Jun-2024
16:07



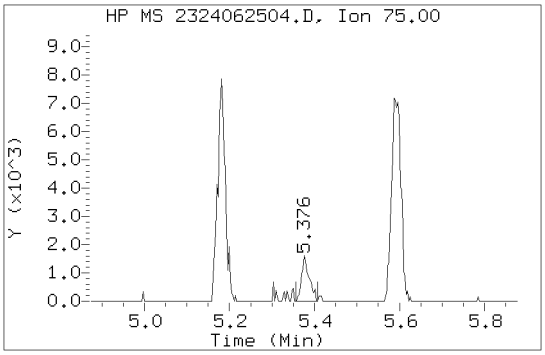
Chloroacetonitrile (107-14-2)

Reason Code: H

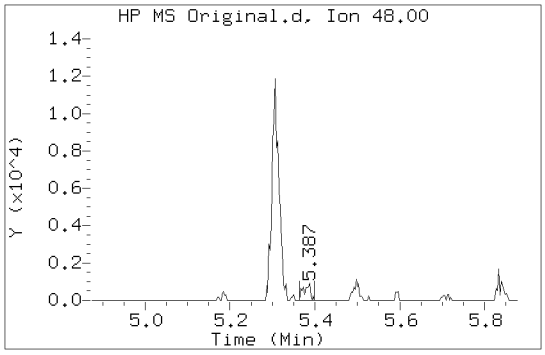
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MASS
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HEIGHT
1606
25-Jun-2024
19:54



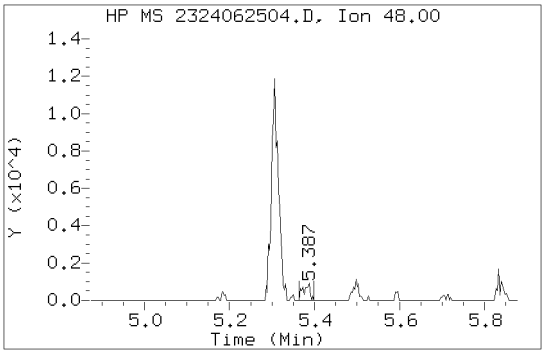
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1606
27-Jun-2024
16:07



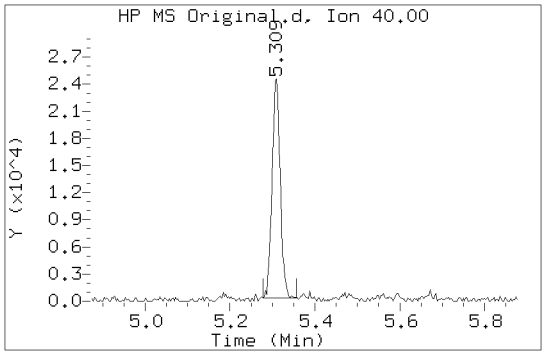
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48
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989
HEIGHT
925
25-Jun-2024
19:54



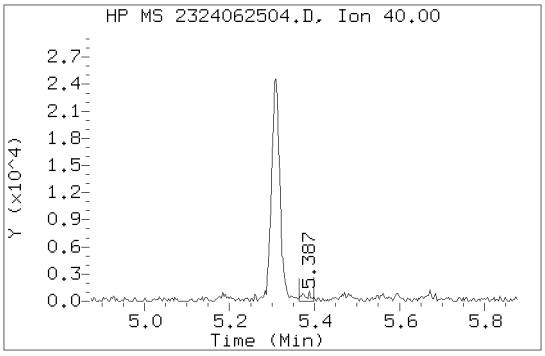
AFTER
MASS
48
AREA
989
HEIGHT
925
27-Jun-2024
16:07



BEFORE
MASS
40
AREA
31776
HEIGHT
24236
25-Jun-2024
19:54



AFTER
MASS
40
AREA
1157
HEIGHT
1106
27-Jun-2024
16:07

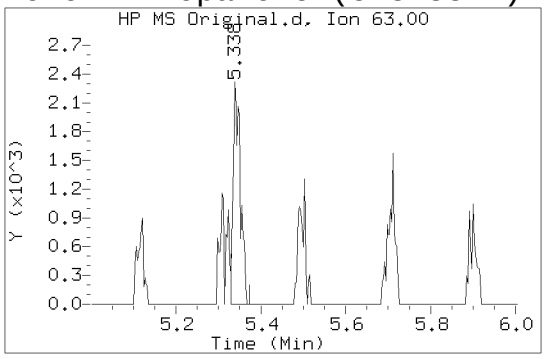


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

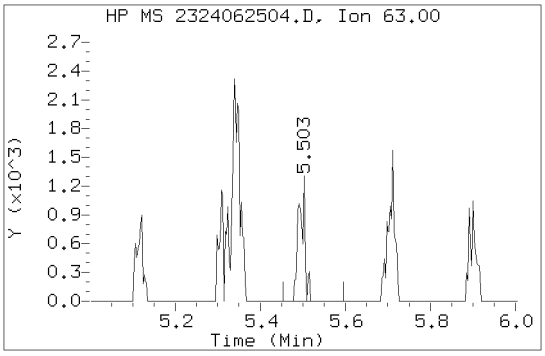
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

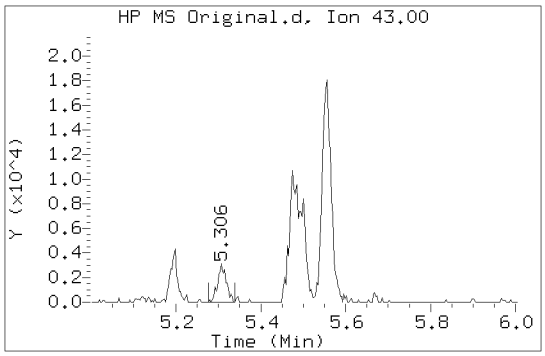
BEFORE
MASS
63
AREA
2787
HEIGHT
2318
25-Jun-2024
19:54



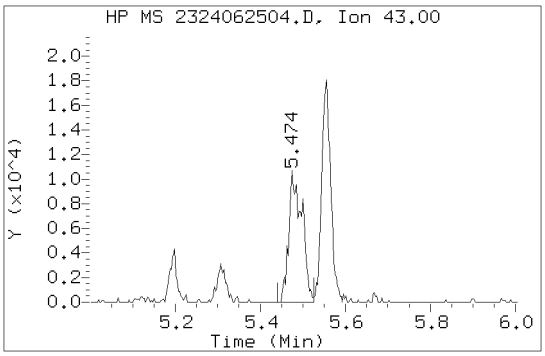
AFTER
MASS
63
AREA
1286
HEIGHT
1307
27-Jun-2024
16:07



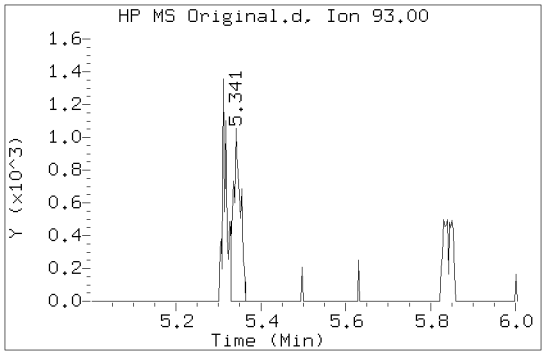
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MASS
43
AREA
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HEIGHT
3118
25-Jun-2024
19:54



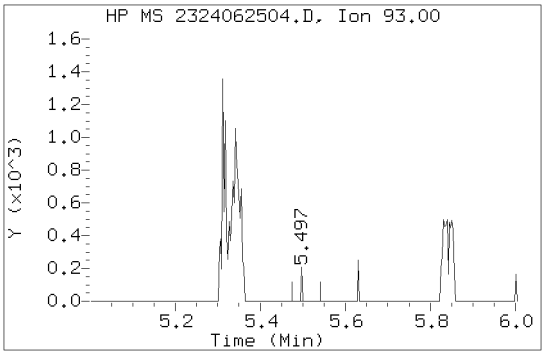
AFTER
MASS
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AREA
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HEIGHT
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27-Jun-2024
16:07



BEFORE
MASS
93
AREA
1262
HEIGHT
1055
25-Jun-2024
19:54



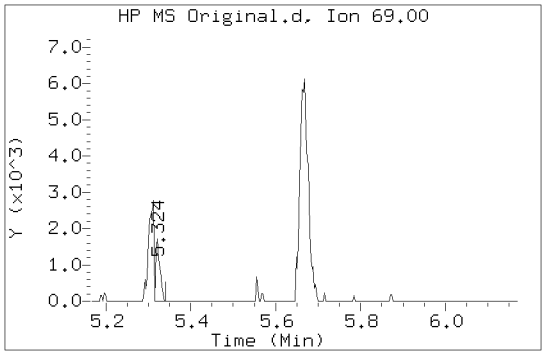
AFTER
MASS
93
AREA
36
HEIGHT
209
27-Jun-2024
16:07



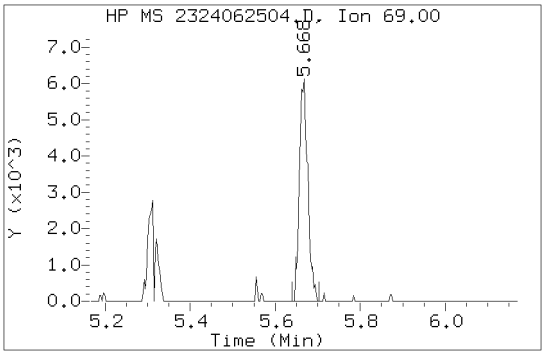
Ethyl Methacrylate (97-63-2)

Reason Code: H

BEFORE
MASS
69
AREA
1160
HEIGHT
1174
25-Jun-2024
19:54



AFTER
MASS
69
AREA
8230
HEIGHT
6125
27-Jun-2024
16:07

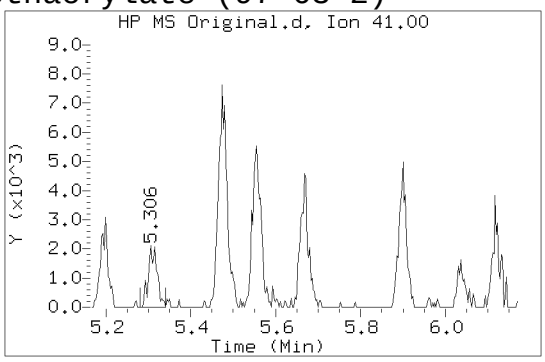


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Inj Date : 25-JUN-2024 12:00
InstruID : ms23.i
LabSampID : 1234

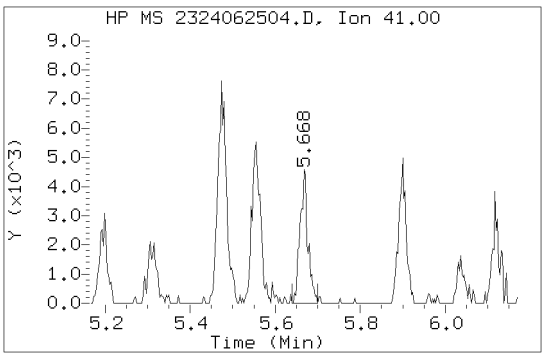
Ethyl Methacrylate (97-63-2)

Reason Code: H

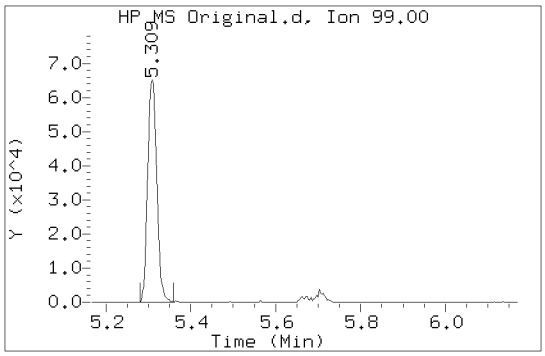
BEFORE
MASS
41
AREA
2981
HEIGHT
2112
25-Jun-2024
19:54



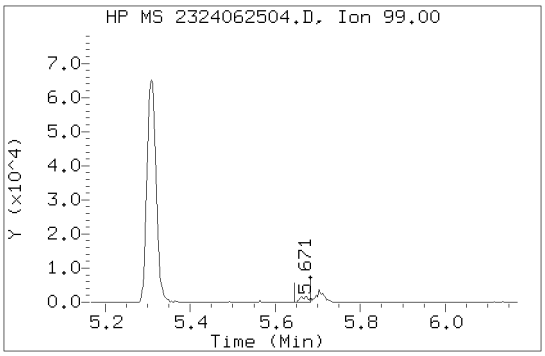
AFTER
MASS
41
AREA
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HEIGHT
4594
27-Jun-2024
16:07



BEFORE
MASS
99
AREA
96187
HEIGHT
65176
25-Jun-2024
19:54



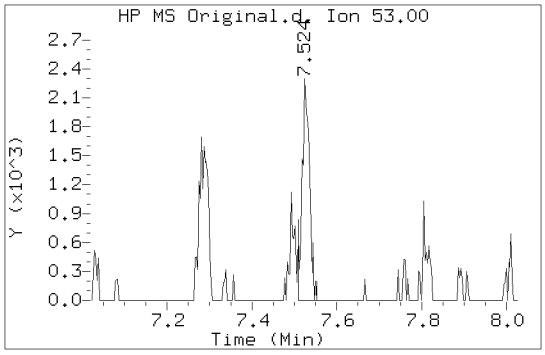
AFTER
MASS
99
AREA
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HEIGHT
1646
27-Jun-2024
16:07



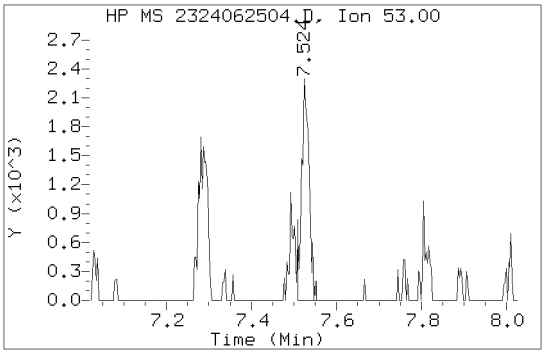
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

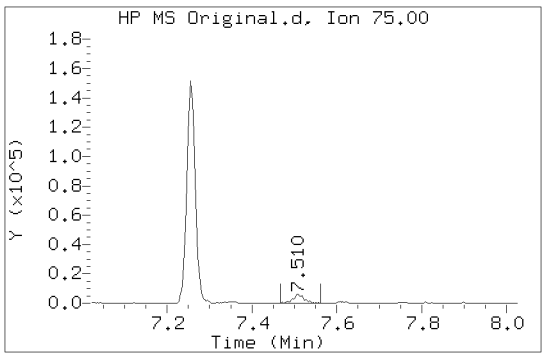
BEFORE
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53
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HEIGHT
2298
25-Jun-2024
19:54



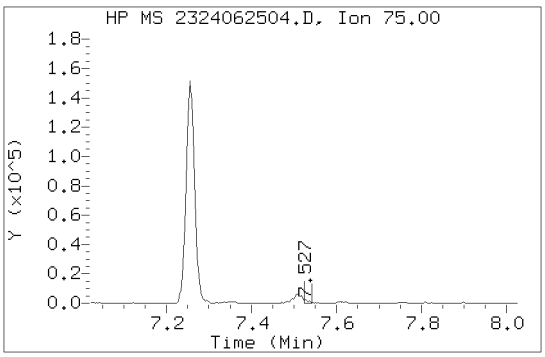
AFTER
MASS
53
AREA
2713
HEIGHT
2298
27-Jun-2024
16:07



BEFORE
MASS
75
AREA
10936
HEIGHT
6271
25-Jun-2024
19:54



AFTER
MASS
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AREA
1690
HEIGHT
2603
27-Jun-2024
16:07

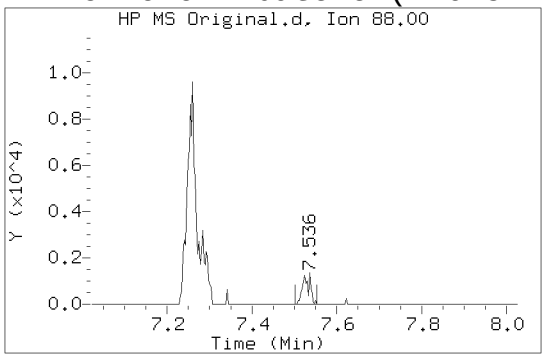


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Inj Date : 25-JUN-2024 12:00
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LabSampID : 1234

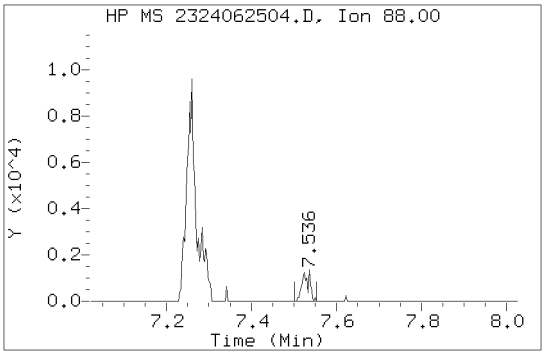
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

BEFORE
MASS
88
AREA
1532
HEIGHT
1350
25-Jun-2024
19:54



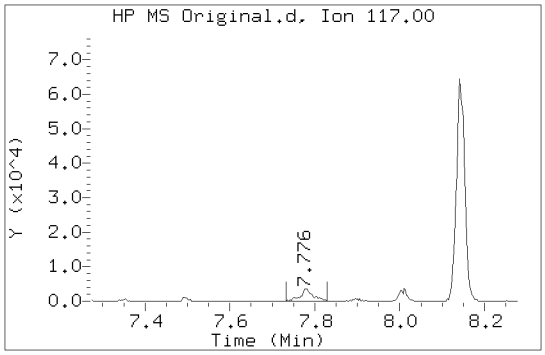
AFTER
MASS
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AREA
1532
HEIGHT
1350
27-Jun-2024
16:07



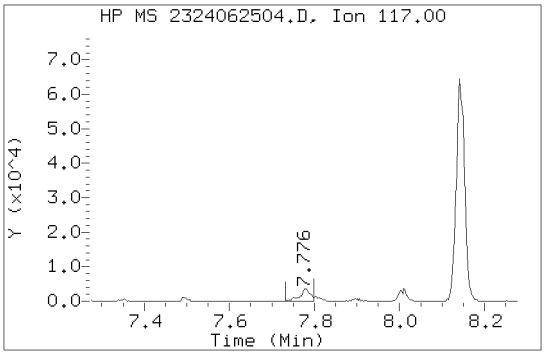
Pentachloroethane (76-01-7)

Reason Code: MP

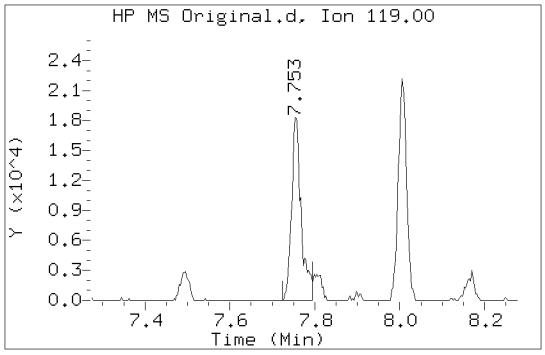
BEFORE
MASS
117
AREA
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HEIGHT
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25-Jun-2024
19:54



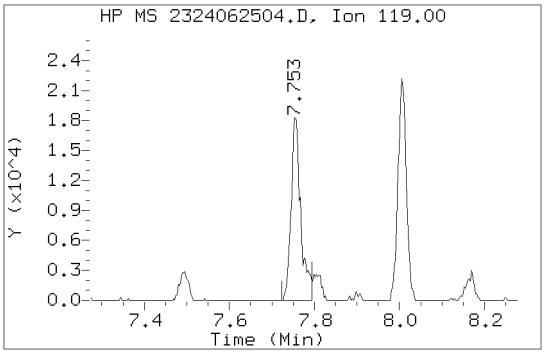
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27-Jun-2024
16:07



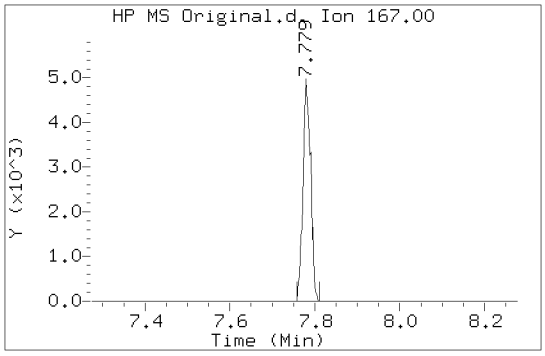
BEFORE
MASS
119
AREA
29411
HEIGHT
18264
25-Jun-2024
19:54



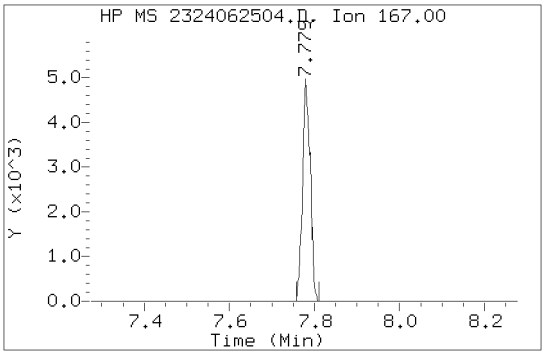
AFTER
MASS
119
AREA
29411
HEIGHT
18264
27-Jun-2024
16:07



BEFORE
MASS
167
AREA
6107
HEIGHT
4975
25-Jun-2024
19:54



AFTER
MASS
167
AREA
6107
HEIGHT
4975
27-Jun-2024
16:07



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:07
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 12:00
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062505.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062505.D
Lab Smp Id: 1235
Inj Date : 25-JUN-2024 12:20
Operator : ILY Inst ID: ms23.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:20 Cal File: 2324062505.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.632	1.632	(0.375)	67101	5.00000	4.89947	
2 Chloromethane	50	1.785	1.780	(0.410)	39233	5.00000	4.68876	
3 Vinyl Chloride	62	1.849	1.849	(0.424)	39059	5.00000	4.73858	
4 Bromomethane	94	2.072	2.072	(0.476)	26020	5.00000	4.18369	
5 Chloroethane	64	2.150	2.156	(0.494)	20681	5.00000	4.55977	
6 Pentane	41	2.248	2.252	(0.516)	25876	5.00000	4.66620	
7 Trichlorofluoromethane	101	2.251	2.255	(0.517)	84317	5.00000	4.80473	
8 Dichlorofluoromethane	67	2.280	2.278	(0.523)	74176	5.00000	5.00721	
9 Ethyl Ether	74	2.439	2.446	(0.560)	23305	5.00000	5.03900	
10 1,1-Dichloroethene	61	2.576	2.582	(0.591)	51337	5.00000	4.90713	
11 Freon 113	101	2.593	2.593	(0.595)	35198	5.00000	4.94609	
12 Carbon Disulfide	76	2.619	2.619	(0.601)	101524	5.00000	5.00303	
13 Iodomethane	127	2.677	2.686	(0.615)	13893	5.00000	3.66926	
14 Acrolein	56	2.764	2.767	(0.634)	33519	25.0000	25.4808	
15 Isopropyl Alcohol	45	2.816	2.819	(0.646)	13708	25.0000	23.4193	
16 3-Chloro-1-propene	41	2.851	2.848	(0.654)	35943	5.00000	4.67403	
17 Methylene Chloride	84	2.911	2.909	(0.668)	38308	5.00000	5.05307	
18 Acetone	58	2.917	2.923	(0.670)	17666	25.0000	25.2782	
19 Methyl acetate	74	2.984	2.999	(0.685)	8544	5.00000	4.85627(Q)	
20 trans-1,2-Dichloroethene	61	3.004	3.005	(0.690)	48659	5.00000	5.07329	
21 Hexane	57	3.047	3.042	(0.700)	66958	5.00000	4.70739	
22 Methyl t-Butyl Ether	73	3.047	3.051	(0.700)	129835	5.00000	5.07138	

Data File: 2324062505.D Page 2
Report Date: 27-Jun-2024 16:15

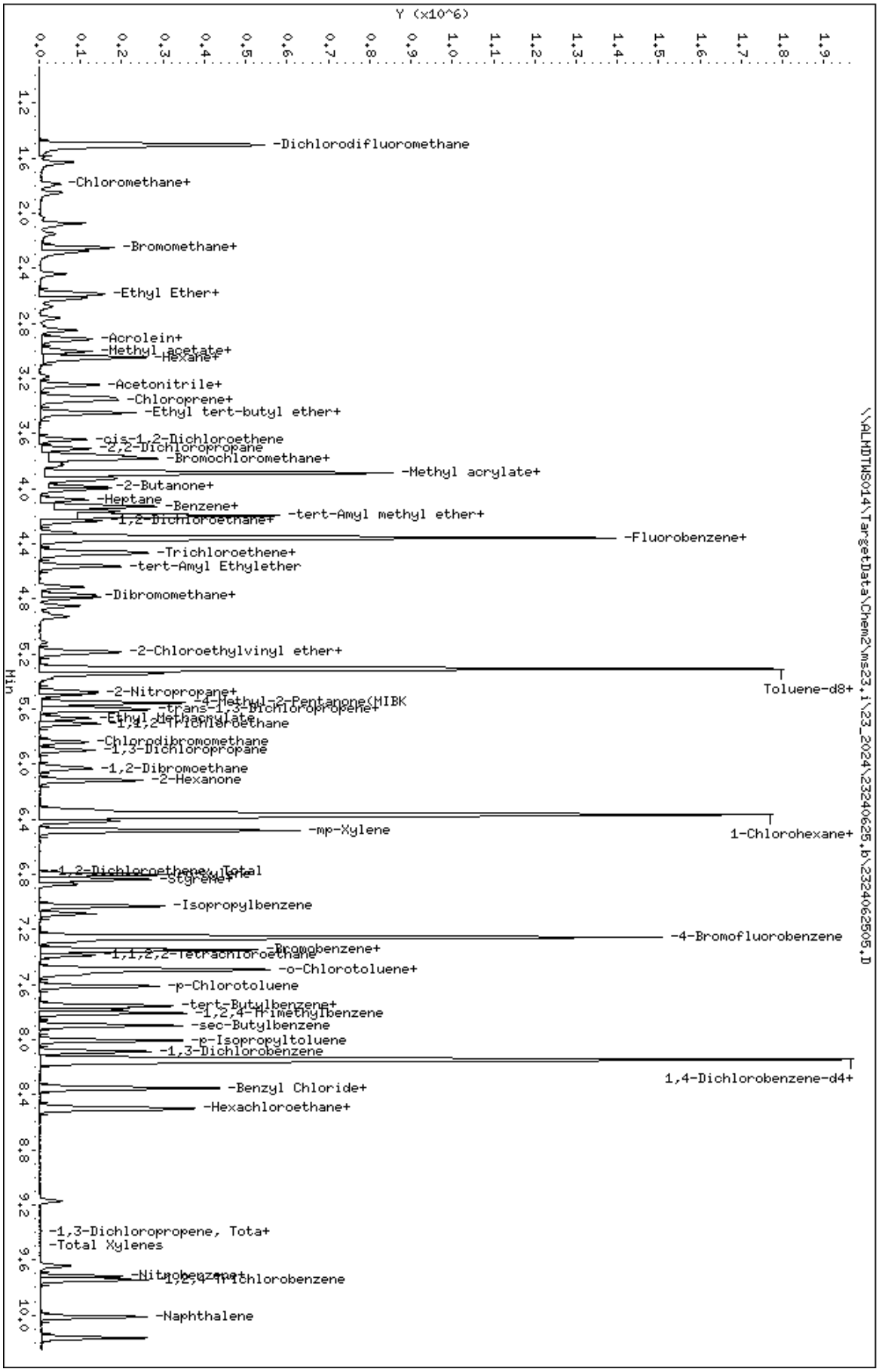
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.071	3.065	(0.705)	24170	25.0000	22.6624	
	24 Acetonitrile	41	3.184	3.187	(0.731)	19641	25.0000	24.4020	
	25 Diisopropyl ether	45	3.250	3.245	(0.746)	92808	5.00000	5.24076	
	26 Chloroprene	53	3.331	3.329	(0.765)	53093	5.00000	4.52559	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	62741	5.00000	4.78953	
	28 Acrylonitrile	53	3.357	3.358	(0.771)	76325	25.0000	22.6992(M)	MP
	29 Ethyl tert-butyl ether	59	3.450	3.448	(0.792)	113573	5.00000	4.64548	
	30 n-Propanol	41	3.444	3.448	(0.791)	21472	50.0000	51.8113(Q)	
	31 Vinyl Acetate	86	3.450	3.442	(0.792)	8615	5.00000	4.07460(Q)	
	32 cis-1,2-Dichloroethene	61	3.644	3.641	(0.837)	50079	5.00000	5.04643(M)	I
	33 2,2-Dichloropropane	77	3.710	3.714	(0.852)	67395	5.00000	5.14566(M)	MP
	34 Bromochloromethane	128	3.760	3.754	(0.863)	24131	5.00000	5.03660	
	35 Cyclohexane	84	3.777	3.789	(0.867)	56520	5.00000	5.07810	
	36 Chloroform	83	3.783	3.775	(0.868)	83720	5.00000	5.02955	
	37 Ethyl Acetate	43	3.818	3.818	(0.876)	35524	5.00000	4.85582	
	38 Methyl acrylate	55	3.835	3.830	(0.880)	32477	5.00000	4.41934	
	39 Carbon Tetrachloride	117	3.893	3.893	(0.894)	68615	5.00000	4.75037(M)	MP
$	41 Dibromofluoromethane	113	3.884	3.885	(0.892)	274370	30.0000	29.9047	
	40 Tetrahydrofuran	42	3.884	3.888	(0.892)	49097	25.0000	25.3942	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	79272	5.00000	5.21042	
	43 2-Butanone	72	3.936	3.951	(0.904)	27068	25.0000	25.1719	
	44 1,1-Dichloropropene	75	3.986	3.986	(0.915)	55129	5.00000	5.09049	
	45 1-Chlorobutane	41	4.006	4.003	(0.920)	34079	5.00000	4.84436	
	46 Heptane	71	4.081	4.078	(0.937)	26168	5.00000	5.22940	
	47 Benzene	78	4.130	4.128	(0.948)	146934	5.00000	5.16973	
	48 Propionitrile	54	4.113	4.105	(0.944)	26997	25.0000	22.5607	
	49 Methacrylonitrile	67	4.127	4.131	(0.947)	17900	5.00000	5.15734	
	50 tert-Amyl methyl ether	73	4.162	4.166	(0.955)	117980	5.00000	4.76596	
	54 Isobutyl alcohol	42	4.162	4.168	(0.955)	6416	50.0000	31.9477(Q)	
$	51 1,2-Dichloroethane-d4	65	4.194	4.197	(0.963)	356553	30.0000	30.3566	
	52 1,2-Dichloroethane	62	4.235	4.235	(0.972)	67295	5.00000	5.01821	
	53 tert-Amyl Alcohol	59	4.235	4.247	(0.972)	17207	25.0000	21.6501	
*	55 Fluorobenzene	96	4.356	4.357	(1.000)	933630	30.0000		
	56 Diisobutylene	57	4.374	4.357	(1.004)	98758	5.00000	4.88582	
	57 Trichloroethene	95	4.457	4.458	(1.023)	43497	5.00000	4.99585	
	58 Methyl cyclohexane	83	4.469	4.470	(0.702)	60268	5.00000	5.18443	
	59 tert-Amyl Ethylether	59	4.565	4.562	(1.048)	85462	5.00000	4.97365	
	60 Dibromomethane	93	4.712	4.716	(1.082)	27772	5.00000	4.96043	
	61 1,2-Dichloropropane	63	4.770	4.768	(1.095)	30359	5.00000	4.89827	
	62 Bromodichloromethane	83	4.793	4.791	(1.100)	59629	5.00000	4.99492	
	63 Methyl methacrylate	41	4.848	4.855	(1.113)	33049	5.00000	4.68627	
	64 1,4-Dioxane	88	4.906	4.907	(1.126)	14018	125.000	116.059	
	65 2-Chloroethylvinyl ether	63	5.118	5.121	(1.175)	6260	5.00000	4.65121	
	66 cis-1,3-Dichloropropene	75	5.181	5.182	(0.814)	63118	5.00000	4.67729	
	67 Octane	85	5.199	5.193	(0.817)	23545	5.00000	5.17926	
$	68 Toluene-d8	98	5.306	5.309	(0.834)	981039	30.0000	30.2041	
	69 Toluene	92	5.343	5.344	(0.839)	100409	5.00000	5.03575	
	70 Chloroacetonitrile	75	5.381	5.376	(0.845)	12126	25.0000	21.3237	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	69519	25.0000	21.9136	
	72 1,1-Dichloro-2-Propanone	63	5.503	5.503	(0.864)	6903	25.0000	24.5691(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	166149	25.0000	23.8118	
	75 trans-1,3-Dichloropropene	75	5.592	5.587	(0.879)	66164	5.00000	4.68804	
	74 Tetrachloroethene	164	5.610	5.605	(0.881)	44440	5.00000	5.12686	
	76 Ethyl Methacrylate	69	5.671	5.668	(0.891)	51811	5.00000	4.54748	

Data File: 2324062505.D Page 3
Report Date: 27-Jun-2024 16:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.708	5.706	(0.897)	31521	5.00000	5.32737	
78	Chlorodibromomethane	129	5.839	5.839	(0.917)	52711	5.00000	4.62509	
79	1,3-Dichloropropane	76	5.899	5.897	(0.927)	63835	5.00000	5.14291	
80	1,2-Dibromoethane	107	6.018	6.019	(0.945)	43095	5.00000	4.97512	
81	2-Hexanone	43	6.117	6.123	(0.961)	119861	25.0000	23.4814	
82	1-Chlorohexane	91	6.337	6.331	(0.995)	51260	5.00000	4.92456	
* 83	Chlorobenzene-d5	82	6.366	6.363	(1.000)	407496	30.0000		
84	Chlorobenzene	112	6.377	6.378	(1.002)	119181	5.00000	5.20360	
85	Ethylbenzene	106	6.380	6.378	(1.002)	60457	5.00000	5.00944	
86	1,1,1,2-Tetrachloroethane	131	6.415	6.418	(1.008)	47085	5.00000	5.01141	
87	mp-Xylene	106	6.484	6.482	(1.019)	149705	10.0000	10.2598	
88	o-Xylene	106	6.800	6.797	(1.068)	72775	5.00000	5.07379	
89	Styrene	104	6.837	6.838	(0.840)	119222	5.00000	5.06496	
90	Bromoform	173	6.869	6.870	(0.844)	37264	5.00000	4.56818	
91	Isopropylbenzene	105	7.031	7.035	(0.863)	175788	5.00000	5.16466	
M 100	1,2-Dichloroethene, Total	61				98738	10.0000	10.1197	
$ 92	4-Bromofluorobenzene	174	7.254	7.258	(0.891)	410974	30.0000	32.4564	
93	Bromobenzene	156	7.347	7.350	(0.902)	55742	5.00000	5.12690	
94	n-Propylbenzene	120	7.350	7.348	(0.903)	54830	5.00000	5.32586	
95	1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	47106	5.00000	5.23907	
96	o-Chlorotoluene	91	7.486	7.489	(0.919)	147872	5.00000	5.26653	
97	1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	164504	5.00000	5.41963	
98	1,2,3-Trichloropropane	110	7.506	7.507	(0.922)	20243	5.00000	5.30748	
99	trans-1,4-Dichloro-2-butene	53	7.527	7.524	(0.924)	15498	5.00000	4.65065(M)	MP
101	p-Chlorotoluene	91	7.613	7.614	(0.935)	138236	5.00000	5.32488	
102	tert-Butylbenzene	134	7.758	7.756	(0.953)	41018	5.00000	5.39678	
103	Pentachloroethane	117	7.776	7.776	(0.955)	35239	5.00000	5.10913(M)	MP
104	1,2,4-Trimethylbenzene	105	7.807	7.805	(0.959)	167337	5.00000	5.42812	
105	sec-Butylbenzene	105	7.897	7.895	(0.970)	193170	5.00000	5.34480	
106	p-Isopropyltoluene	134	8.010	8.007	(0.984)	46393	5.00000	5.31433	
107	1,3-Dichlorobenzene	146	8.085	8.089	(0.993)	102040	5.00000	5.32640	
* 108	1,4-Dichlorobenzene-d4	152	8.143	8.141	(1.000)	437692	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	8.158	8.157	(1.002)	102251	5.00000	5.20681	
110	Benzyl Chloride	126	8.349	8.352	(1.025)	21121	5.00000	4.75111(Q)	
111	n-Butylbenzene	134	8.355	8.352	(1.026)	43835	5.00000	5.42555(Q)	
112	Hexachloroethane	117	8.494	8.494	(1.043)	31171	5.00000	4.73738	
113	1,2-Dichlorobenzene	146	8.505	8.509	(1.044)	97722	5.00000	5.25457	
114	1,2-Dibromo-3-chloropropane	75	9.171	9.172	(1.126)	11872	5.00000	4.78694	
115	Nitrobenzene	77	9.640	9.646	(1.184)	30738	50.0000	47.5077	
116	Hexachlorobutadiene	225	9.718	9.722	(1.193)	34951	5.00000	5.46331	
M 120	1,3-Dichloropropene, Total	75				129282	10.0000	9.36533	
117	1,2,4-Trichlorobenzene	180	9.744	9.745	(1.197)	68122	5.00000	5.29396	
M 121	Total Xylenes	106				222480	15.0000	15.3336	
118	Naphthalene	128	10.014	10.014	(1.230)	166588	5.00000	4.81458	
119	1,2,3-Trichlorobenzene	180	10.164	10.168	(1.248)	62572	5.00000	4.91407	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

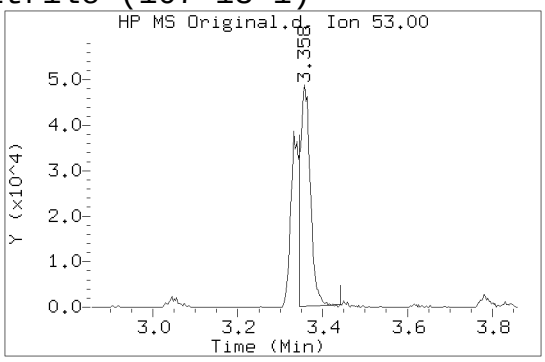

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane+
-Bromomethane+
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-2-Butanone+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-tert-Amyl methyl ether+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
Toluene-d8+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-mp-Xylene
1-Chlorohexane+
-1,2-Dichloroethene, Total
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,3-Dichloropropene, Tota+
-Total Xylenes
-Nitrobenzene+
1,2,4-Trichlorobenzene
-Naphthalene
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Operator: ILY
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Page 1

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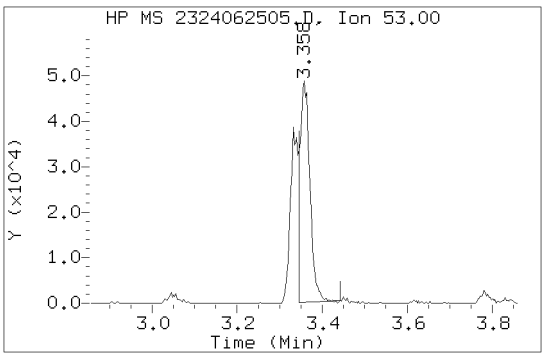
Acrylonitrile (107-13-1)

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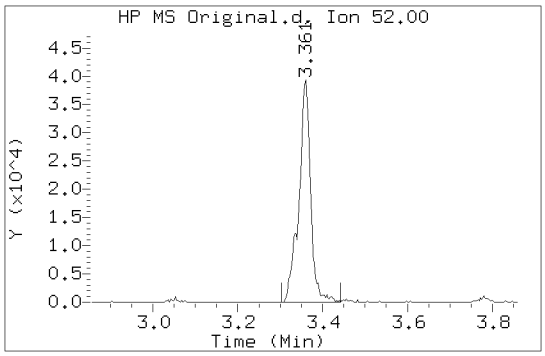
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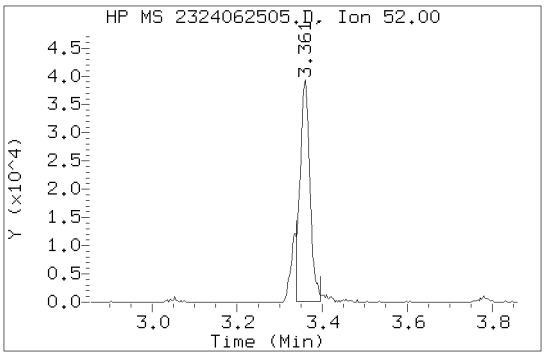
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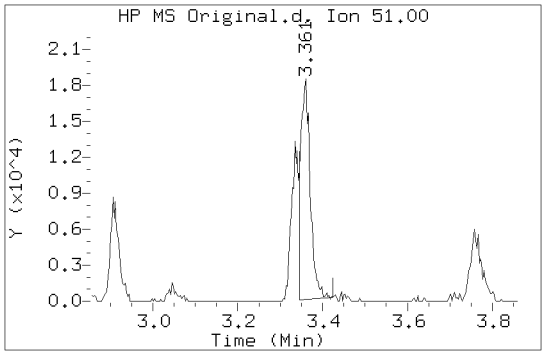
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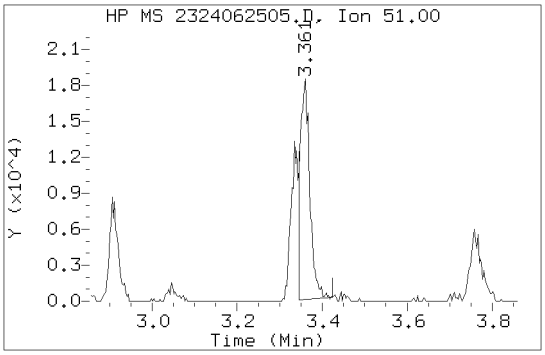
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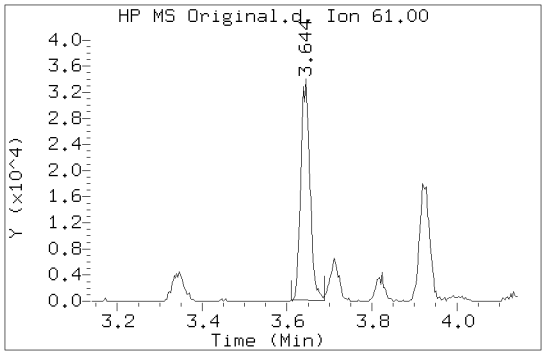
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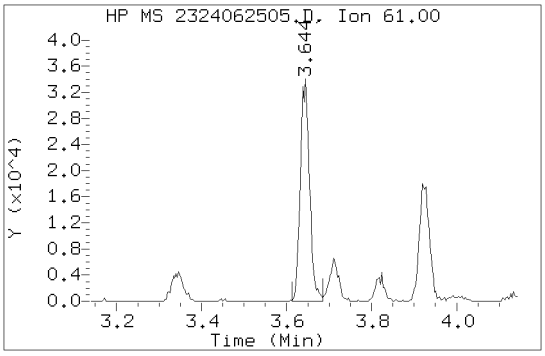
cis-1,2-Dichloroethene (156-59-2)

Reason Code: I

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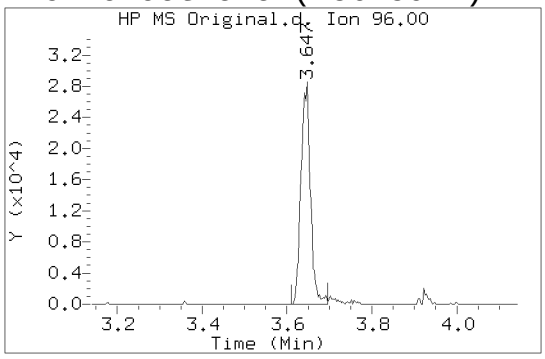


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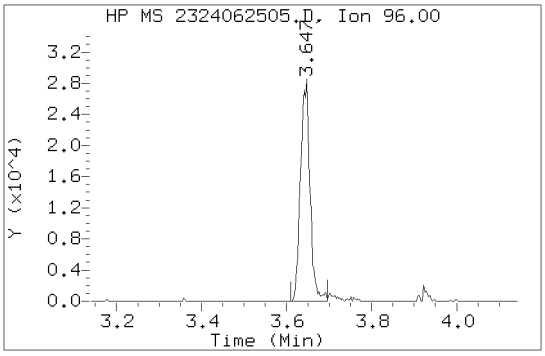
cis-1,2-Dichloroethene (156-59-2)

Reason Code: I

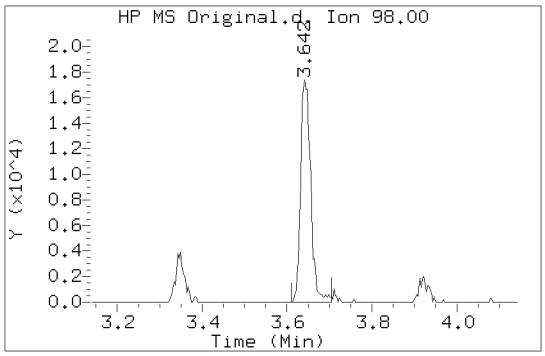
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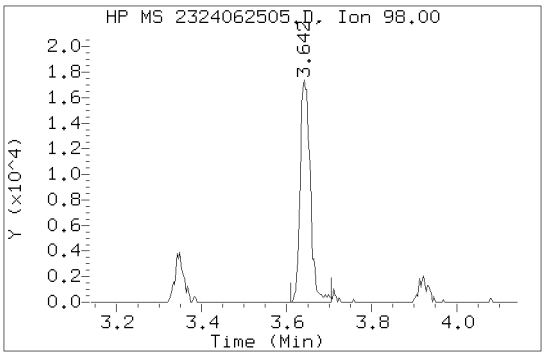
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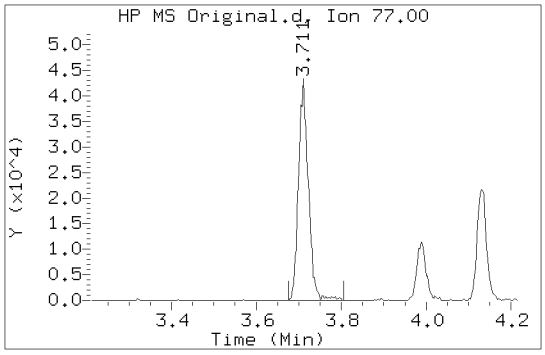
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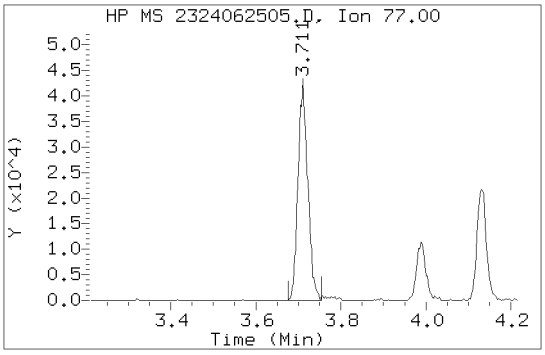
2,2-Dichloropropane (594-20-7)

Reason Code: MP

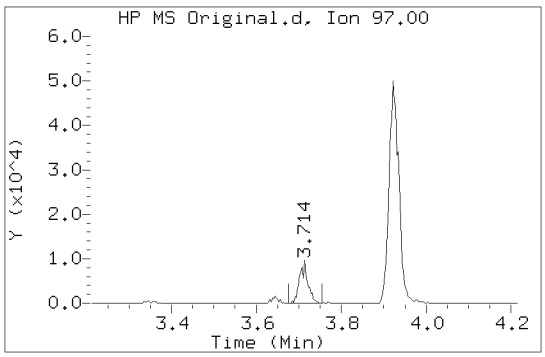
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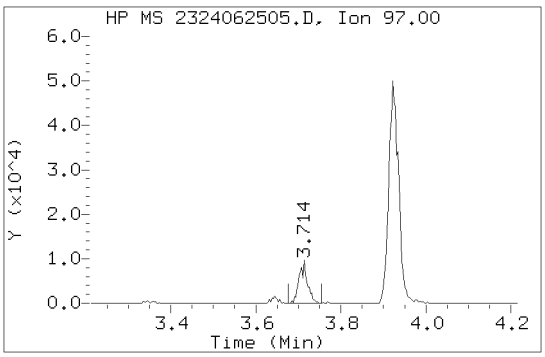
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BEFORE
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AFTER
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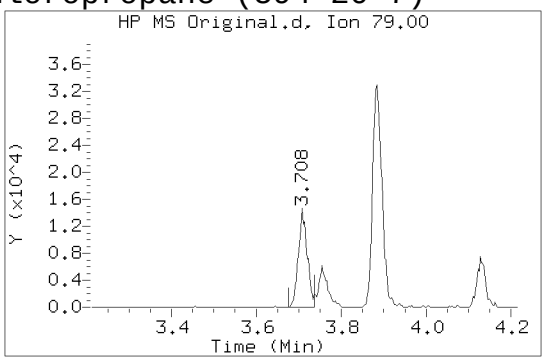


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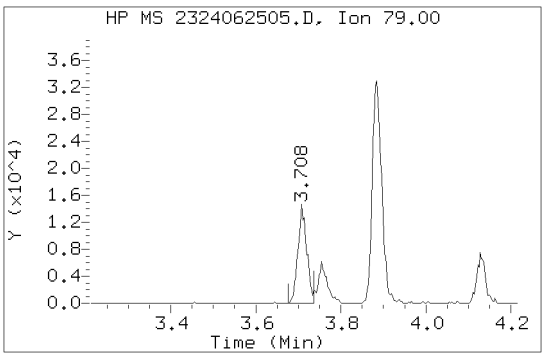
2,2-Dichloropropane (594-20-7)

Reason Code: MP

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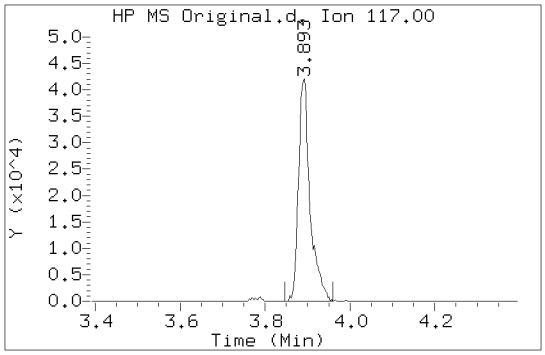
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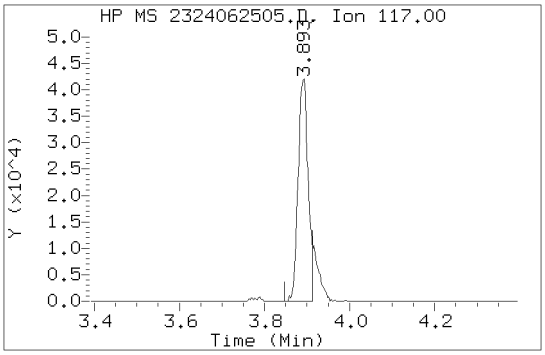
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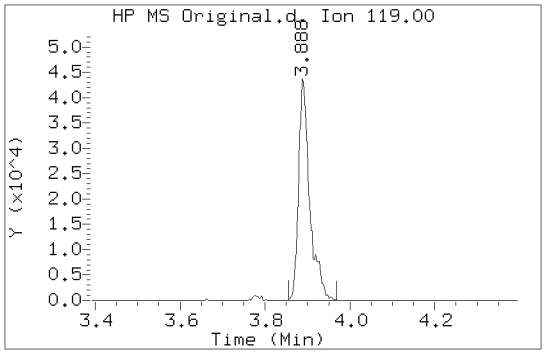
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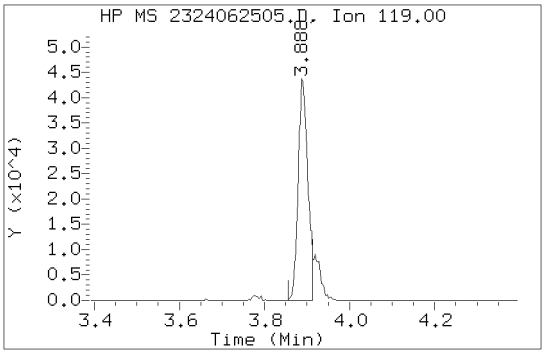
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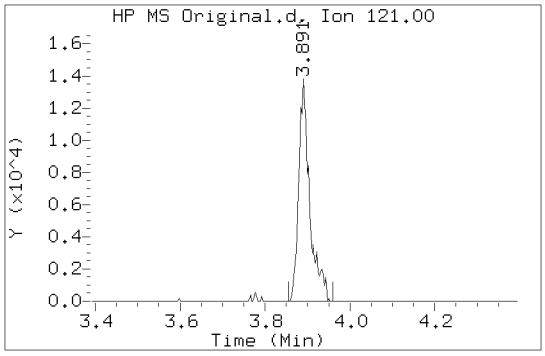
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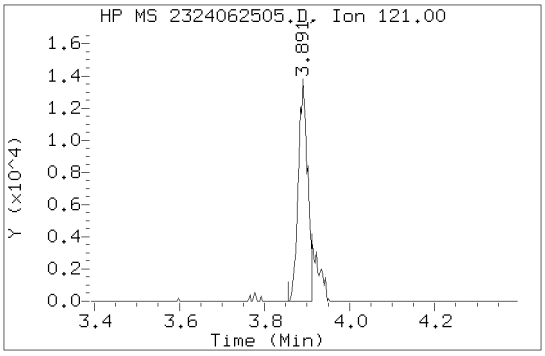
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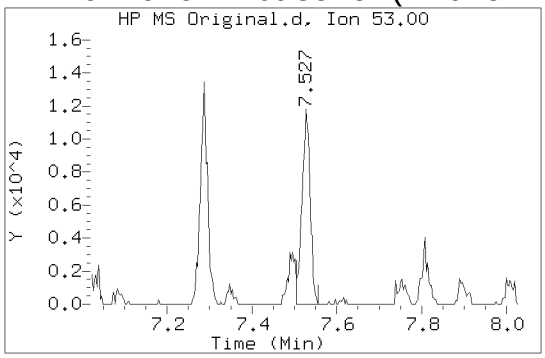


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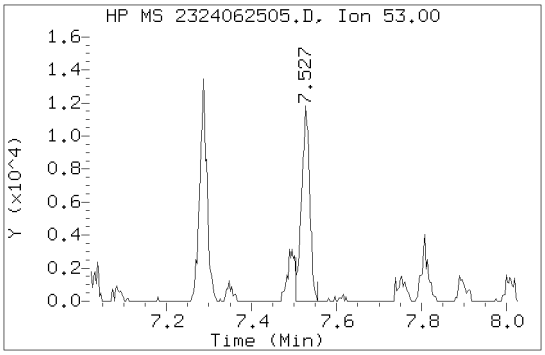
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

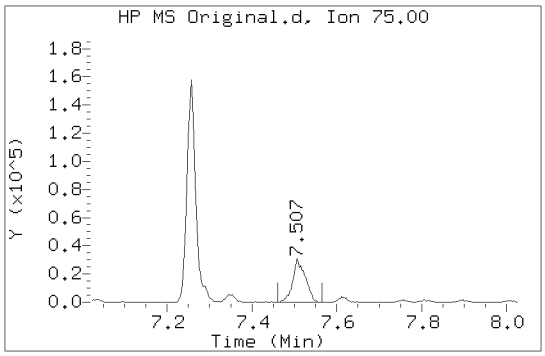
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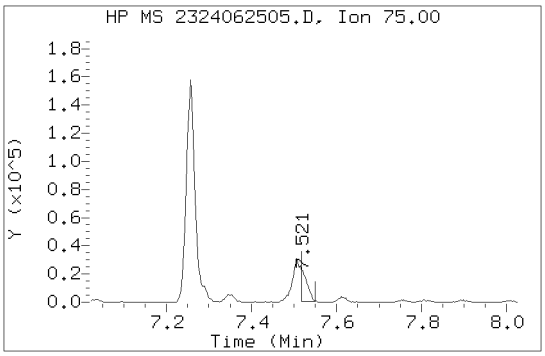
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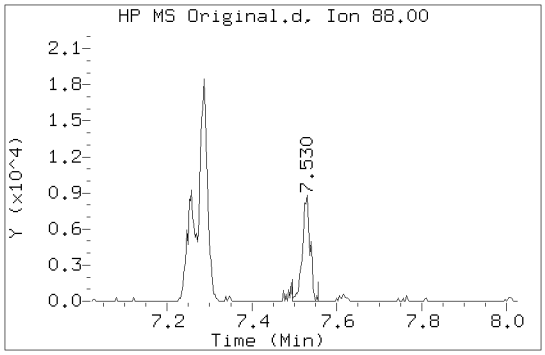
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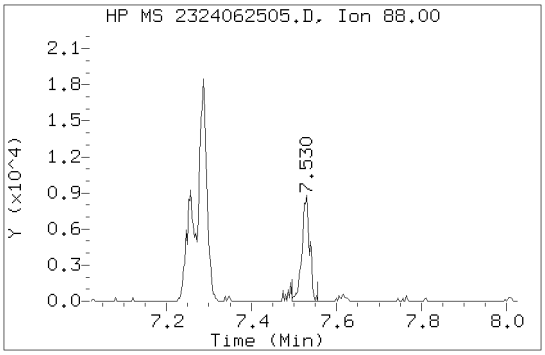
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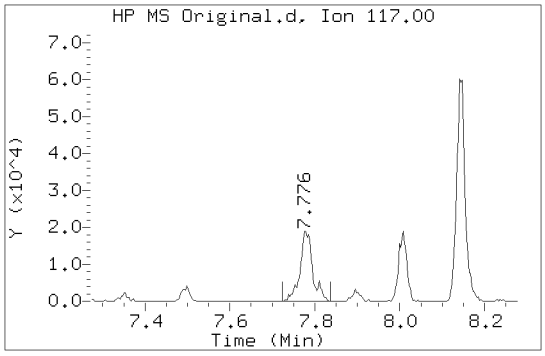
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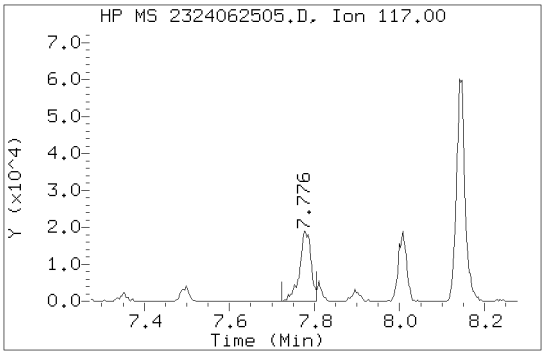
Pentachloroethane (76-01-7)

Reason Code: MP

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AFTER
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27-Jun-2024
16:15



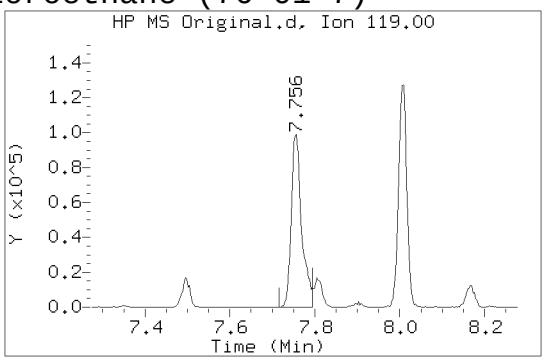
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Pentachloroethane (76-01-7)

Reason Code: MP

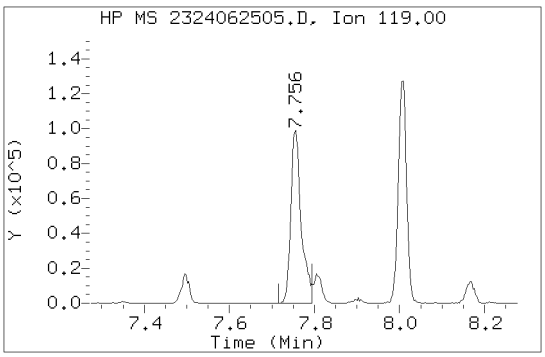
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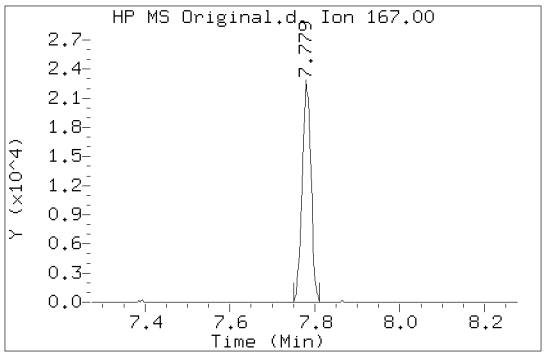
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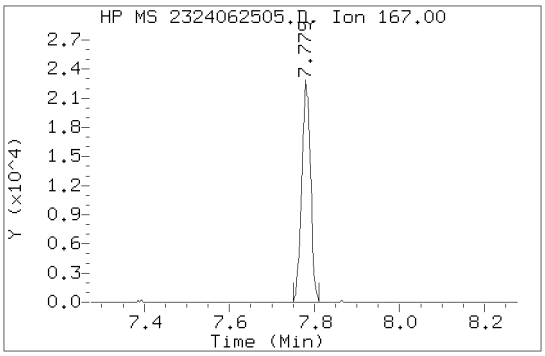
BEFORE

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19:49



AFTER

MASS
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27-Jun-2024
16:15



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
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Inj Date: 25-JUN-2024 12:20
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062506.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062506.D
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Inj Date : 25-JUN-2024 12:40
Operator : ILY Inst ID: ms23.i
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Cal Date : 25-JUN-2024 12:40 Cal File: 2324062506.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.632	1.632	(0.375)	249449	20.0000	18.2976	
2	Chloromethane	50	1.788	1.780	(0.411)	143610	20.0000	17.2419	
3	Vinyl Chloride	62	1.849	1.849	(0.424)	146478	20.0000	17.8522	
4	Bromomethane	94	2.072	2.072	(0.476)	100967	20.0000	16.2714	
5	Chloroethane	64	2.147	2.156	(0.493)	87674	20.0000	19.4194	
6	Pentane	41	2.245	2.252	(0.516)	93159	20.0000	16.8765	
7	Trichlorofluoromethane	101	2.251	2.255	(0.517)	323781	20.0000	18.5352	
8	Dichlorofluoromethane	67	2.277	2.278	(0.523)	286853	20.0000	19.4529	
9	Ethyl Ether	74	2.442	2.446	(0.561)	89377	20.0000	19.4139	
10	1,1-Dichloroethene	61	2.578	2.582	(0.592)	193490	20.0000	18.5801	
11	Freon 113	101	2.596	2.593	(0.596)	134160	20.0000	18.9391	
12	Carbon Disulfide	76	2.619	2.619	(0.601)	377171	20.0000	18.6722	
13	Iodomethane	127	2.680	2.686	(0.615)	60406	20.0000	15.5594	
14	Acrolein	56	2.761	2.767	(0.634)	121524	100.000	92.8062	
15	Isopropyl Alcohol	45	2.824	2.819	(0.648)	48455	100.000	88.3752	
16	3-Chloro-1-propene	41	2.851	2.848	(0.654)	145446	20.0000	18.4189	
17	Methylene Chloride	84	2.911	2.909	(0.668)	142770	20.0000	18.9189	
18	Acetone	58	2.926	2.923	(0.672)	65439	100.000	94.0669	
19	Methyl acetate	74	2.987	2.999	(0.686)	31020	20.0000	17.7124	
20	trans-1,2-Dichloroethene	61	3.004	3.005	(0.690)	184497	20.0000	19.3245	
21	Hexane	57	3.044	3.042	(0.699)	243756	20.0000	17.2158	
22	Methyl t-Butyl Ether	73	3.047	3.051	(0.700)	493871	20.0000	19.3794	

Data File: 2324062506.D
Report Date: 27-Jun-2024 16:15

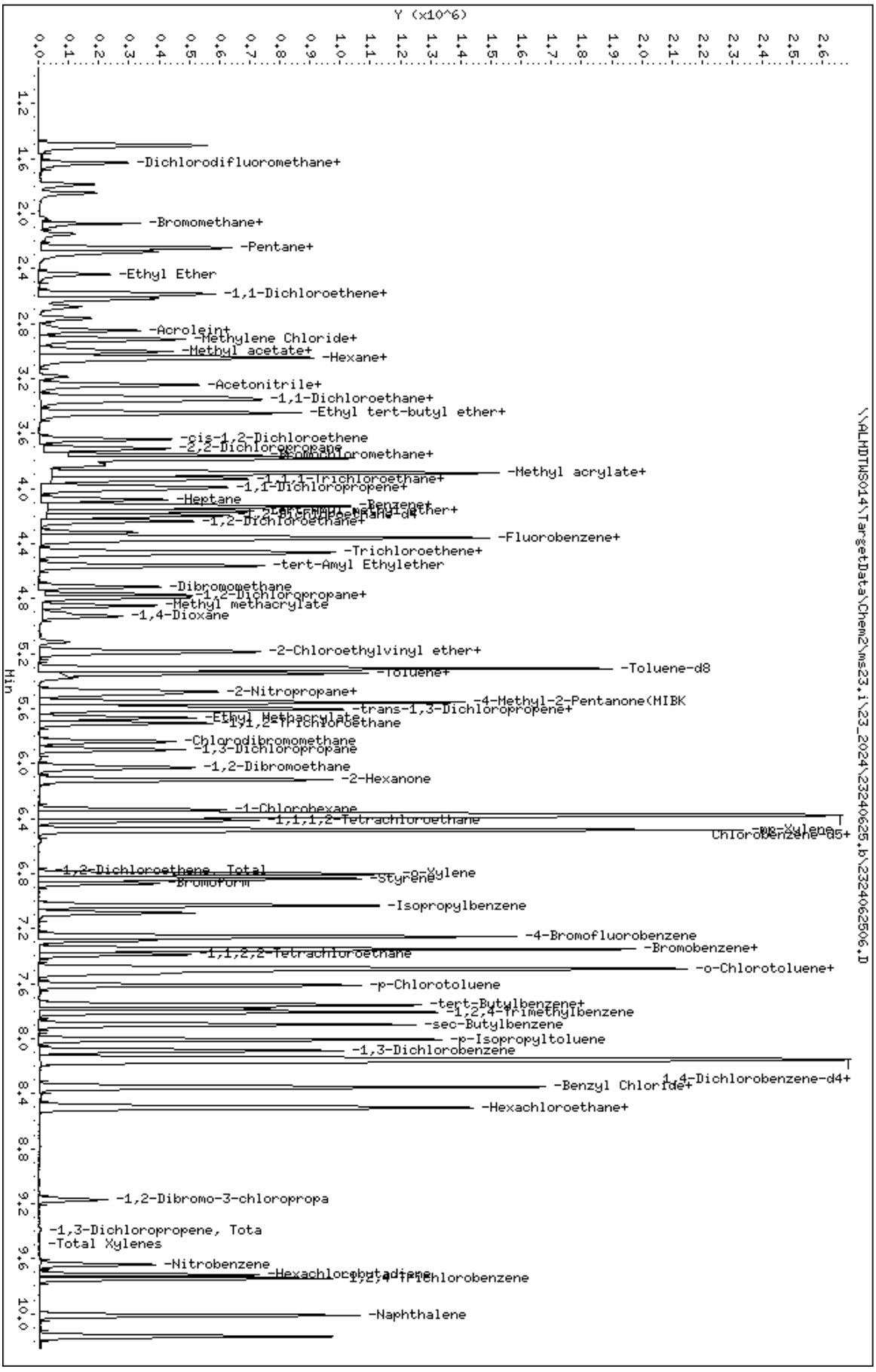
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.068	3.065	(0.704)	101401	100.000	95.5133	
	24 Acetonitrile	41	3.186	3.187	(0.732)	73980	100.000	92.3357	
	25 Diisopropyl ether	45	3.247	3.245	(0.745)	334076	20.0000	18.9516	
	26 Chloroprene	53	3.334	3.329	(0.765)	183558	20.0000	15.1132(M)	MP
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	241048	20.0000	17.9088	
	28 Acrylonitrile	53	3.360	3.358	(0.771)	314537	100.000	90.1525(M)	MP
	29 Ethyl tert-butyl ether	59	3.450	3.448	(0.792)	449788	20.0000	17.8333	
	30 n-Propanol	41	3.450	3.448	(0.792)	78881	200.000	191.213	
	31 Vinyl Acetate	86	3.453	3.442	(0.793)	39752	20.0000	17.7656(Q)	
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	186492	20.0000	18.8791	
	33 2,2-Dichloropropane	77	3.708	3.714	(0.851)	253947	20.0000	19.4782	
	34 Bromochloromethane	128	3.754	3.754	(0.862)	93575	20.0000	19.6207	
	35 Cyclohexane	84	3.780	3.789	(0.868)	211357	20.0000	19.0769	
	36 Chloroform	83	3.783	3.775	(0.868)	310035	20.0000	18.7113	
	37 Ethyl Acetate	43	3.818	3.818	(0.876)	140107	20.0000	19.2395	
	38 Methyl acrylate	55	3.832	3.830	(0.880)	131330	20.0000	17.1282	
	39 Carbon Tetrachloride	117	3.887	3.893	(0.892)	262887	20.0000	17.6323(M)	MP
$	41 Dibromofluoromethane	113	3.887	3.885	(0.892)	281902	30.0000	30.8670	
	40 Tetrahydrofuran	42	3.884	3.888	(0.892)	181854	100.000	94.4920	
	42 1,1,1-Trichloroethane	97	3.925	3.922	(0.901)	289889	20.0000	19.1416	
	43 2-Butanone	72	3.936	3.951	(0.904)	101511	100.000	94.8343	
	44 1,1-Dichloropropene	75	3.985	3.986	(0.915)	206401	20.0000	19.1463	
	45 1-Chlorobutane	41	4.009	4.003	(0.920)	127563	20.0000	18.2166	
	46 Heptane	71	4.078	4.078	(0.936)	90274	20.0000	18.1233	
	47 Benzene	78	4.130	4.128	(0.948)	540016	20.0000	19.0873	
	48 Propionitrile	54	4.113	4.105	(0.944)	111637	100.000	89.7234	
	49 Methacrylonitrile	67	4.130	4.131	(0.948)	63368	20.0000	18.3415	
	50 tert-Amyl methyl ether	73	4.165	4.166	(0.956)	449709	20.0000	17.6348	
	54 Isobutyl alcohol	42	4.171	4.168	(0.957)	29316	200.000	144.653(Q)	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	354302	30.0000	30.3037(M)	MP
	52 1,2-Dichloroethane	62	4.237	4.235	(0.973)	252726	20.0000	18.9325	
	53 tert-Amyl Alcohol	59	4.237	4.247	(0.973)	72561	100.000	91.7173	
*	55 Fluorobenzene	96	4.356	4.357	(1.000)	929356	30.0000		
	56 Diisobutylene	57	4.371	4.357	(1.003)	285696	20.0000	17.4693	
	57 Trichloroethene	95	4.460	4.458	(1.024)	158885	20.0000	18.3327	
	58 Methyl cyclohexane	83	4.475	4.470	(0.703)	221134	20.0000	18.4455	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	328799	20.0000	19.2232	
	60 Dibromomethane	93	4.715	4.716	(1.082)	104698	20.0000	18.7864	
	61 1,2-Dichloropropane	63	4.770	4.768	(1.095)	118354	20.0000	19.1836	
	62 Bromodichloromethane	83	4.793	4.791	(1.100)	225652	20.0000	18.9890	
	63 Methyl methacrylate	41	4.851	4.855	(1.114)	126355	20.0000	17.3067	
	64 1,4-Dioxane	88	4.903	4.907	(1.126)	57974	500.000	482.192(A)	
	65 2-Chloroethylvinyl ether	63	5.115	5.121	(1.174)	33217	20.0000	12.6813	
	66 cis-1,3-Dichloropropene	75	5.184	5.182	(0.814)	248734	20.0000	17.0449	
	67 Octane	85	5.196	5.193	(0.816)	90129	20.0000	19.2245	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	1022600	30.0000	30.5285	
	69 Toluene	92	5.343	5.344	(0.839)	372136	20.0000	18.0973	
	70 Chloroacetonitrile	75	5.381	5.376	(0.845)	54037	100.000	85.2251	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	292246	100.000	84.4588	
	72 1,1-Dichloro-2-Propanone	63	5.497	5.503	(0.864)	25750	100.000	88.8689(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	651962	100.000	87.3273	
	75 trans-1,3-Dichloropropene	75	5.592	5.587	(0.879)	260792	20.0000	17.2737	
	74 Tetrachloroethene	164	5.607	5.605	(0.881)	160769	20.0000	17.9846	
	76 Ethyl Methacrylate	69	5.665	5.668	(0.890)	211466	20.0000	17.1169	

Data File: 2324062506.D Page 3
Report Date: 27-Jun-2024 16:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.705	5.706	(0.896)	117529	20.0000	19.2610	
78	Chlorodibromomethane	129	5.841	5.839	(0.918)	206382	20.0000	16.8182	
79	1,3-Dichloropropane	76	5.899	5.897	(0.927)	238066	20.0000	18.5981	
80	1,2-Dibromoethane	107	6.021	6.019	(0.946)	166334	20.0000	18.6200	
81	2-Hexanone	43	6.116	6.123	(0.961)	465972	100.000	84.7613	
82	1-Chlorohexane	91	6.334	6.331	(0.995)	193855	20.0000	18.0587	
* 83	Chlorobenzene-d5	82	6.365	6.363	(1.000)	420245	30.0000		
84	Chlorobenzene	112	6.377	6.378	(1.002)	443055	20.0000	18.7575	
85	Ethylbenzene	106	6.383	6.378	(1.003)	224319	20.0000	18.0231	
86	1,1,1,2-Tetrachloroethane	131	6.415	6.418	(1.008)	182961	20.0000	18.8824	
87	mp-Xylene	106	6.484	6.482	(1.019)	562536	40.0000	37.3830	
88	o-Xylene	106	6.803	6.797	(1.069)	279068	20.0000	18.8661	
89	Styrene	104	6.837	6.838	(0.840)	457158	20.0000	16.7829	
90	Bromoform	173	6.872	6.870	(0.844)	156525	20.0000	16.3110	
91	Isopropylbenzene	105	7.031	7.035	(0.863)	661590	20.0000	17.0334	
M 100	1,2-Dichloroethene, Total	61				370989	40.0000	38.2036	
$ 92	4-Bromofluorobenzene	174	7.257	7.258	(0.891)	415037	30.0000	29.2099	
93	Bromobenzene	156	7.347	7.350	(0.902)	210776	20.0000	17.2763	
94	n-Propylbenzene	120	7.350	7.348	(0.903)	197959	20.0000	17.1357	
95	1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	184557	20.0000	18.2921	
96	o-Chlorotoluene	91	7.486	7.489	(0.919)	563840	20.0000	17.8958	
97	1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	613226	20.0000	18.0041	
98	1,2,3-Trichloropropane	110	7.509	7.507	(0.922)	79368	20.0000	18.5445	
99	trans-1,4-Dichloro-2-butene	53	7.526	7.524	(0.924)	64425	20.0000	16.3231(M)	MP
101	p-Chlorotoluene	91	7.613	7.614	(0.935)	515415	20.0000	17.6930	
102	tert-Butylbenzene	134	7.752	7.756	(0.952)	152642	20.0000	17.8974	
103	Pentachloroethane	117	7.781	7.776	(0.956)	134662	20.0000	16.8807(M)	MP
104	1,2,4-Trimethylbenzene	105	7.807	7.805	(0.959)	627275	20.0000	18.1331	
105	sec-Butylbenzene	105	7.900	7.895	(0.970)	735335	20.0000	18.1315	
106	p-Isopropyltoluene	134	8.007	8.007	(0.983)	177018	20.0000	18.0705	
107	1,3-Dichlorobenzene	146	8.088	8.089	(0.993)	381774	20.0000	17.7593	
* 108	1,4-Dichlorobenzene-d4	152	8.143	8.141	(1.000)	491148	30.0000		
109	1,4-Dichlorobenzene	146	8.158	8.157	(1.002)	386819	20.0000	17.5537	
110	Benzyl Chloride	126	8.349	8.352	(1.025)	82200	20.0000	15.6354(Q)	
111	n-Butylbenzene	134	8.355	8.352	(1.026)	158659	20.0000	17.5002	
112	Hexachloroethane	117	8.494	8.494	(1.043)	122695	20.0000	16.0543	
113	1,2-Dichlorobenzene	146	8.505	8.509	(1.044)	369896	20.0000	17.7248	
114	1,2-Dibromo-3-chloropropane	75	9.168	9.172	(1.126)	47710	20.0000	17.1435	
115	Nitrobenzene	77	9.643	9.646	(1.184)	159542	200.000	147.613	
116	Hexachlorobutadiene	225	9.718	9.722	(1.193)	125627	20.0000	17.4999	
M 120	1,3-Dichloropropene, Total	75				509526	40.0000	34.3185	
117	1,2,4-Trichlorobenzene	180	9.744	9.745	(1.197)	254753	20.0000	17.6429	
M 121	Total Xylenes	106				841604	60.0000	56.2490	
118	Naphthalene	128	10.014	10.014	(1.230)	670976	20.0000	16.7144	
119	1,2,3-Trichlorobenzene	180	10.167	10.168	(1.249)	253850	20.0000	17.7662(M)	H

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

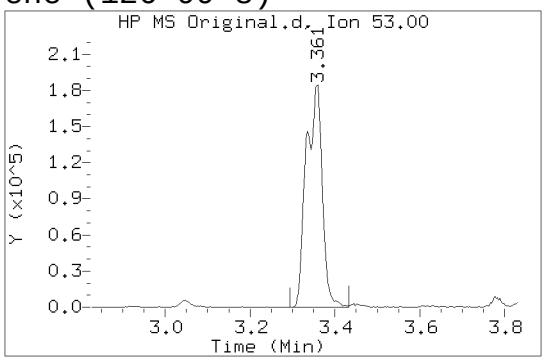

Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acroleint
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-1,1-Dichloroethane+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-D5+
-1,2-Dichloroethene, Total
-o-Xylene
-Styrene
-BromoForm
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
1,2,4-Trichlorobenzene
-Naphthalene
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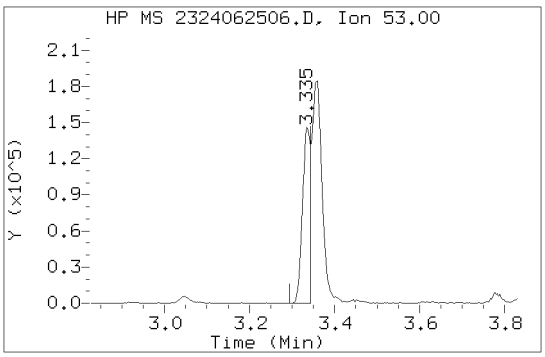
Chloroprene (126-99-8)

Reason Code: MP

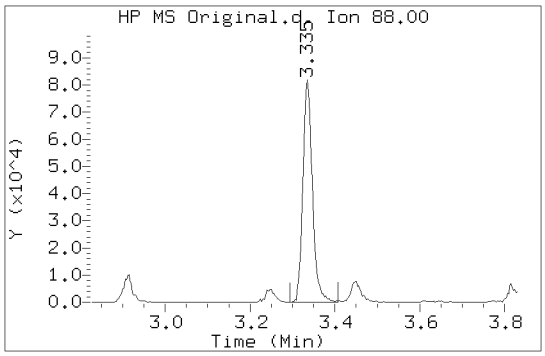
BEFORE
MASS
53
AREA
480274
HEIGHT
184640
25-Jun-2024
19:45



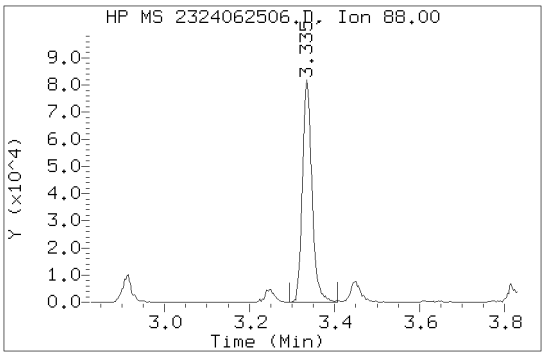
AFTER
MASS
53
AREA
183558
HEIGHT
146432
27-Jun-2024
16:15



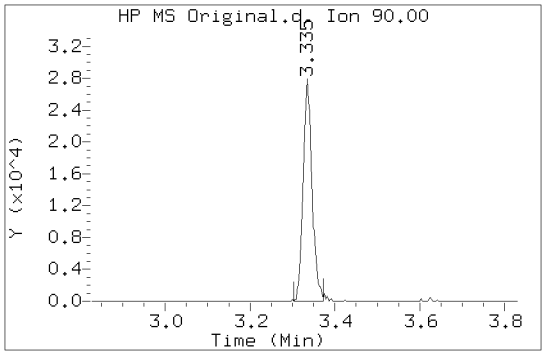
BEFORE
MASS
88
AREA
126652
HEIGHT
81888
25-Jun-2024
19:45



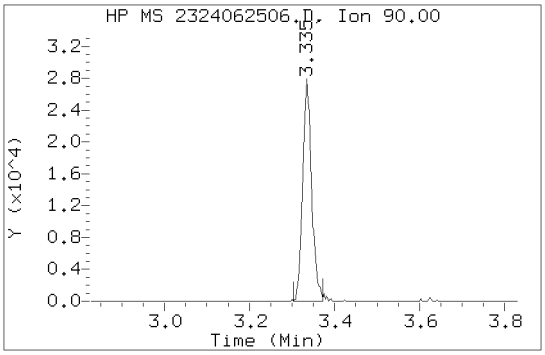
AFTER
MASS
88
AREA
126652
HEIGHT
81888
27-Jun-2024
16:15



BEFORE
MASS
90
AREA
40254
HEIGHT
27920
25-Jun-2024
19:45



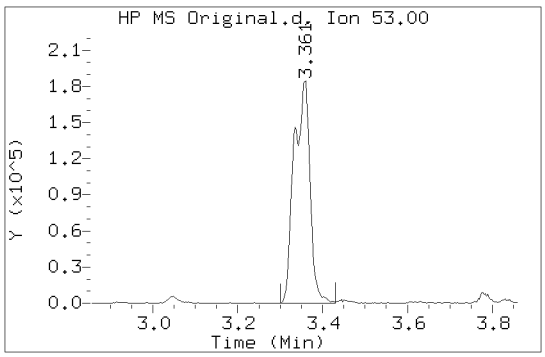
AFTER
MASS
90
AREA
40254
HEIGHT
27920
27-Jun-2024
16:15



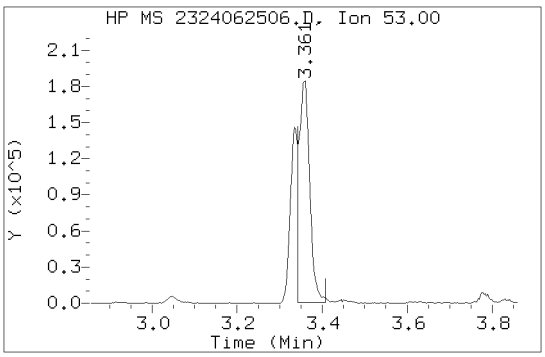
Acrylonitrile (107-13-1)

Reason Code: MP

BEFORE
MASS
53
AREA
478594
HEIGHT
184463
25-Jun-2024
19:45



AFTER
MASS
53
AREA
314537
HEIGHT
184159
27-Jun-2024
16:15

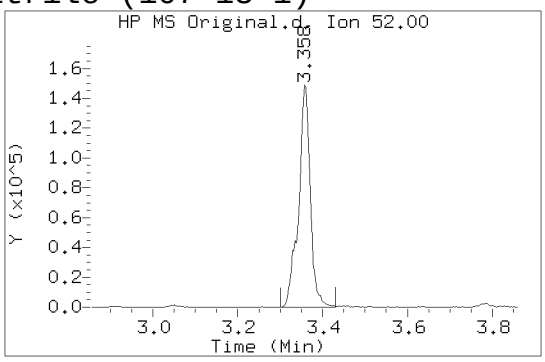


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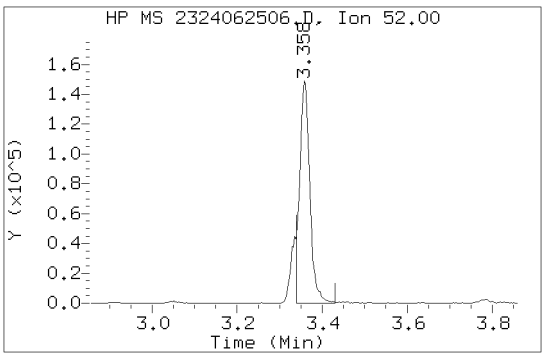
Acrylonitrile (107-13-1)

Reason Code: MP

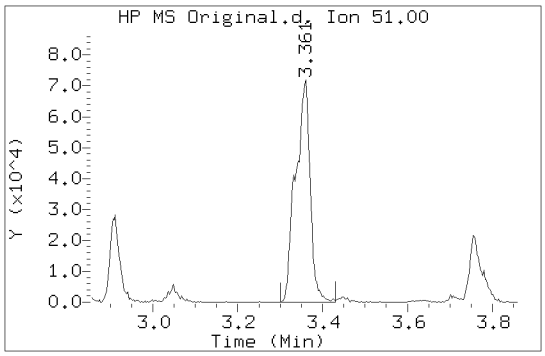
BEFORE
MASS
52
AREA
282192
HEIGHT
148992
25-Jun-2024
19:45



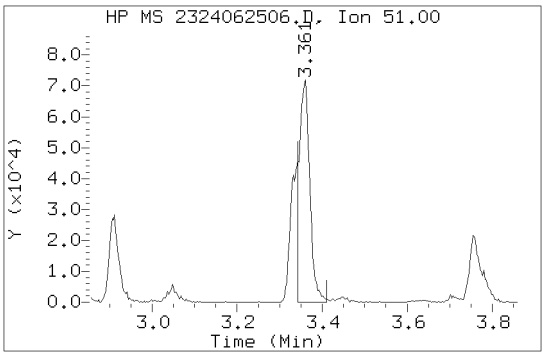
AFTER
MASS
52
AREA
241912
HEIGHT
148935
27-Jun-2024
16:15



BEFORE
MASS
51
AREA
170208
HEIGHT
71936
25-Jun-2024
19:45



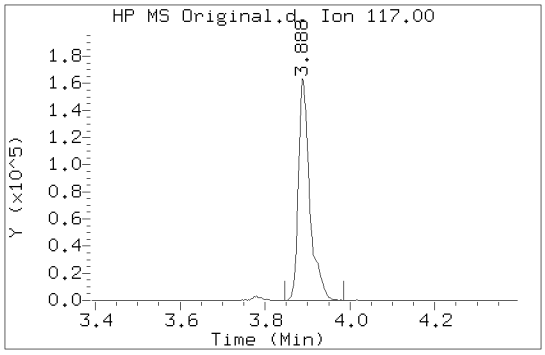
AFTER
MASS
51
AREA
119753
HEIGHT
71888
27-Jun-2024
16:15



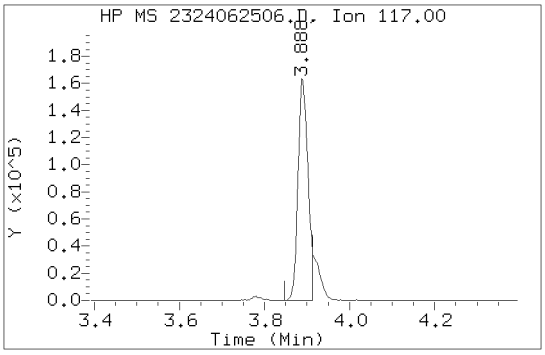
Carbon Tetrachloride (56-23-5)

Reason Code: MP

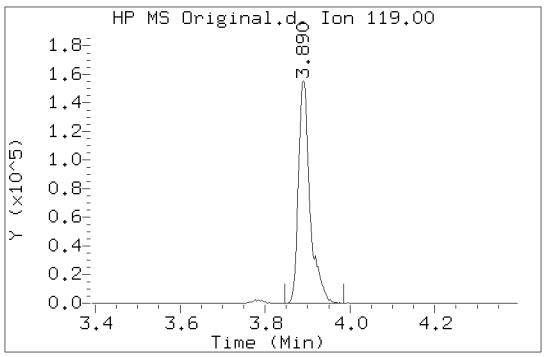
BEFORE
MASS
117
AREA
299838
HEIGHT
163456
25-Jun-2024
19:45



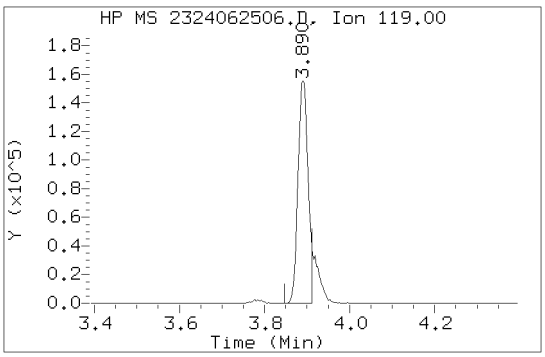
AFTER
MASS
117
AREA
262887
HEIGHT
163456
27-Jun-2024
16:15



BEFORE
MASS
119
AREA
292076
HEIGHT
155392
25-Jun-2024
19:45



AFTER
MASS
119
AREA
249757
HEIGHT
155392
27-Jun-2024
16:15

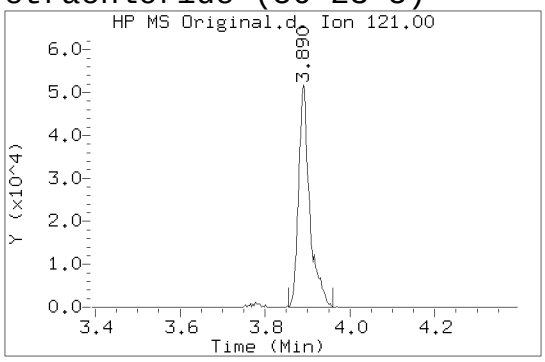


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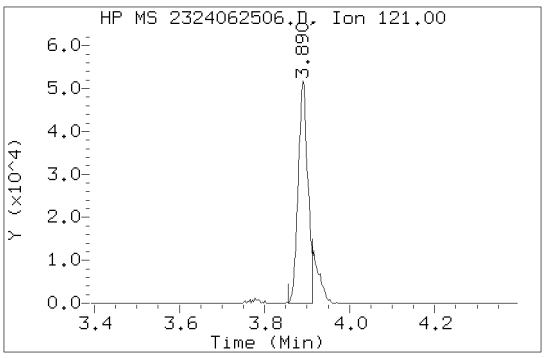
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
92829
HEIGHT
51784
25-Jun-2024
19:45



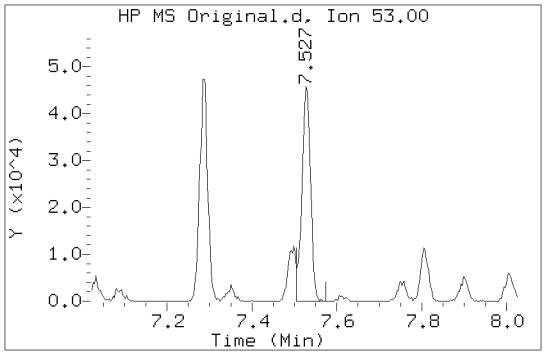
AFTER
MASS
121
AREA
80831
HEIGHT
51784
27-Jun-2024
16:15



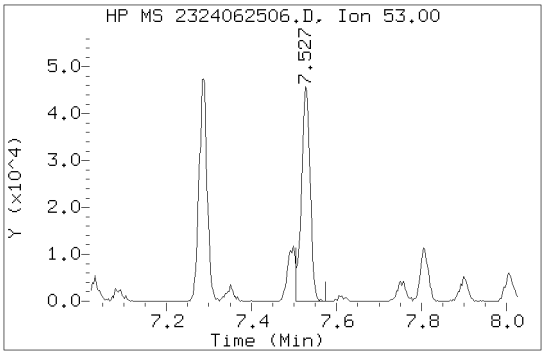
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

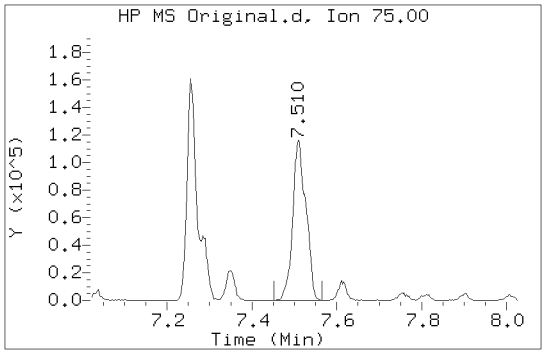
BEFORE
MASS
53
AREA
64425
HEIGHT
45752
25-Jun-2024
19:45



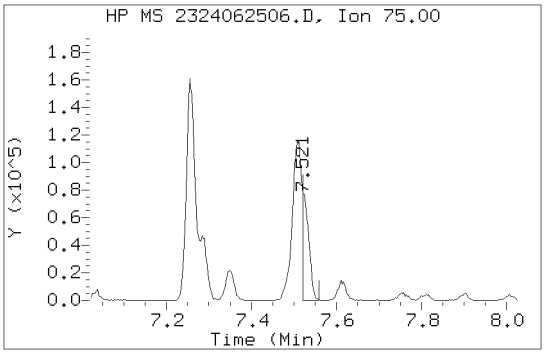
AFTER
MASS
53
AREA
64425
HEIGHT
45752
27-Jun-2024
16:15



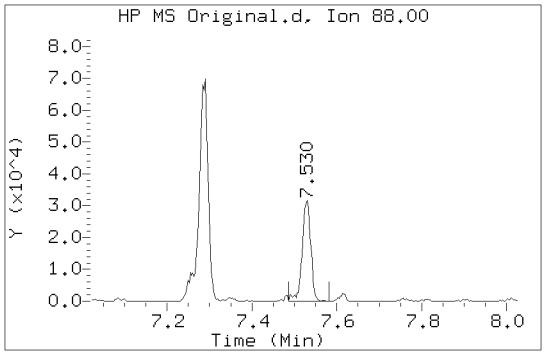
BEFORE
MASS
75
AREA
251447
HEIGHT
116360
25-Jun-2024
19:45



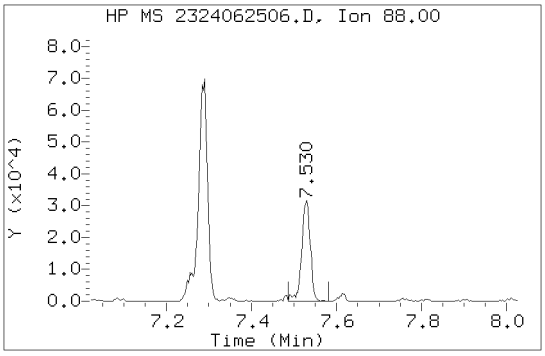
AFTER
MASS
75
AREA
77643
HEIGHT
77253
27-Jun-2024
16:15



BEFORE
MASS
88
AREA
44026
HEIGHT
31688
25-Jun-2024
19:45



AFTER
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88
AREA
44026
HEIGHT
31688
27-Jun-2024
16:15

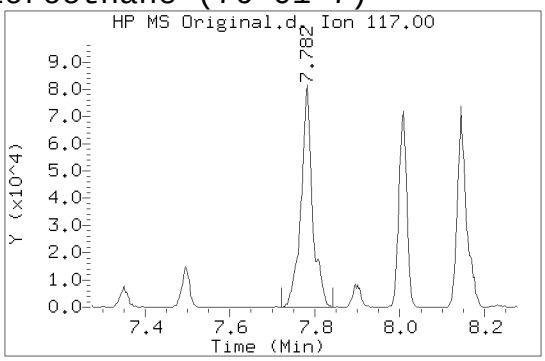


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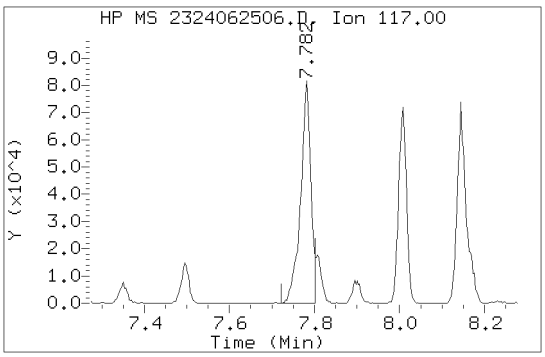
Pentachloroethane (76-01-7)

Reason Code: MP

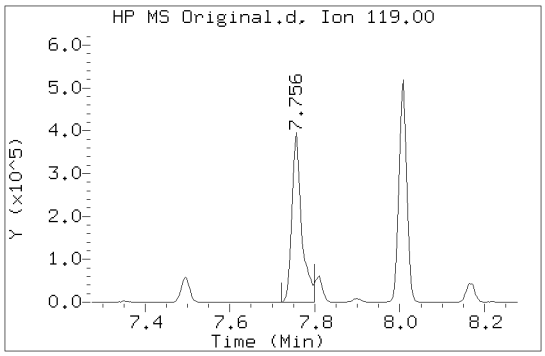
BEFORE
MASS
117
AREA
150275
HEIGHT
81600
25-Jun-2024
19:45



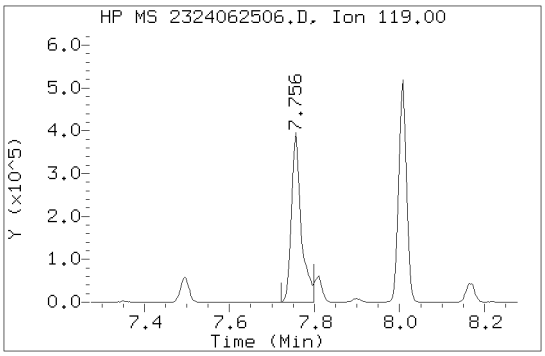
AFTER
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AREA
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HEIGHT
81600
27-Jun-2024
16:15



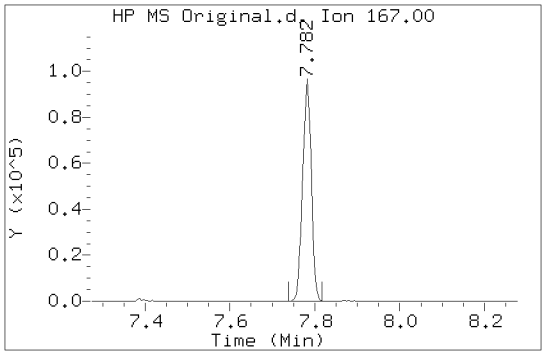
BEFORE
MASS
119
AREA
646957
HEIGHT
396340
25-Jun-2024
19:45



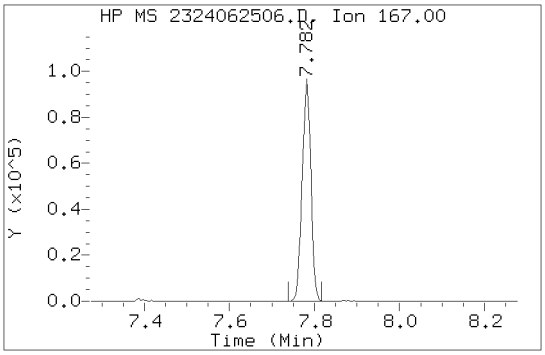
AFTER
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119
AREA
646957
HEIGHT
396340
27-Jun-2024
16:15



BEFORE
MASS
167
AREA
134845
HEIGHT
96696
25-Jun-2024
19:45



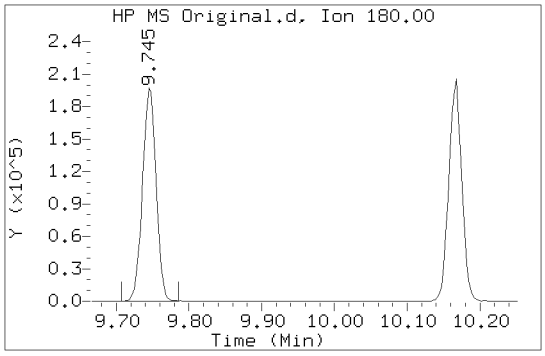
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134845
HEIGHT
96696
27-Jun-2024
16:15



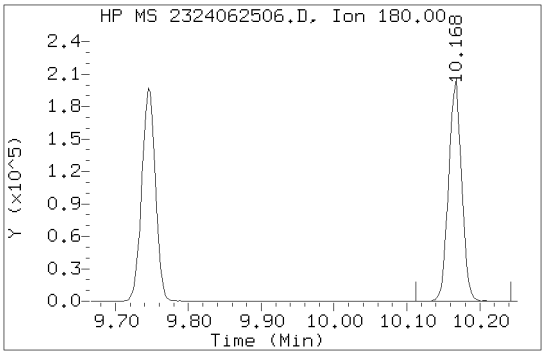
1,2,3-Trichlorobenzene (87-61-6)

Reason Code: H

BEFORE
MASS
180
AREA
256353
HEIGHT
197120
25-Jun-2024
19:45



AFTER
MASS
180
AREA
253850
HEIGHT
205568
27-Jun-2024
16:15



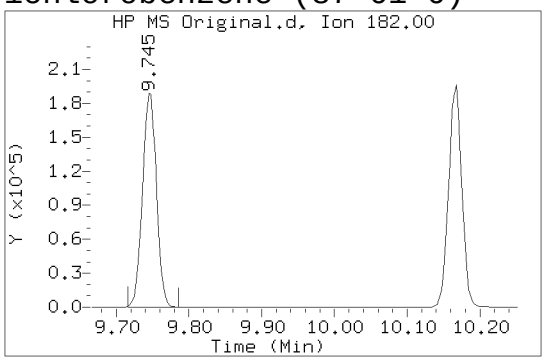
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Inj Date : 25-JUN-2024 12:40
InstruID : ms23.i
LabSampID : 1236

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

Reason Code: H

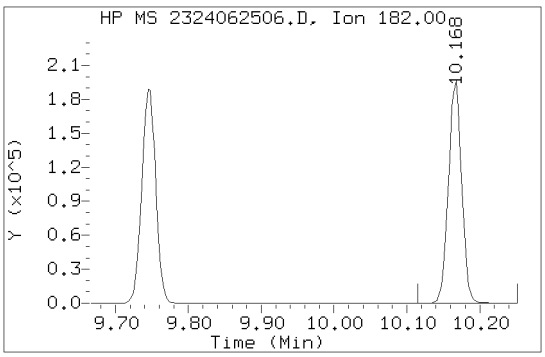
BEFORE

MASS
182
AREA
251472
HEIGHT
188928
25-Jun-2024
19:45



AFTER

MASS
182
AREA
247670
HEIGHT
196224
27-Jun-2024
16:15

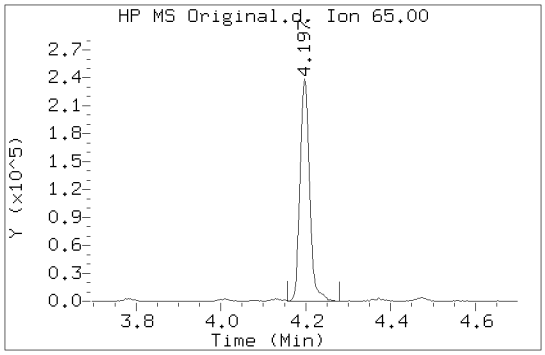


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

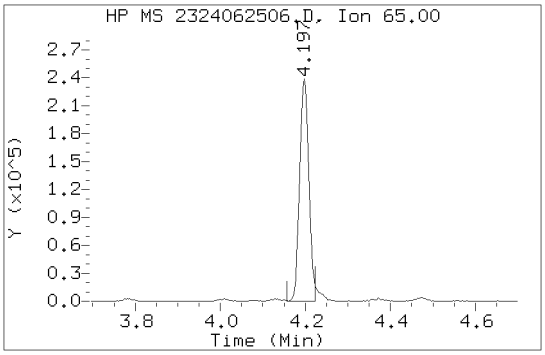
BEFORE

MASS
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AREA
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HEIGHT
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25-Jun-2024
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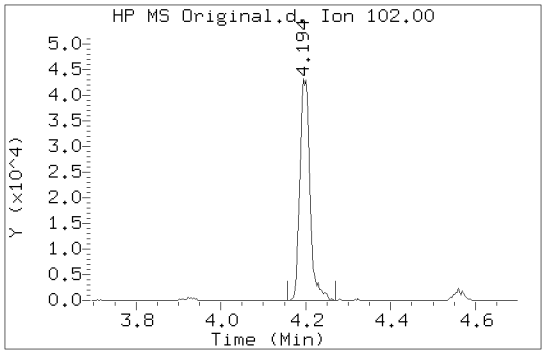
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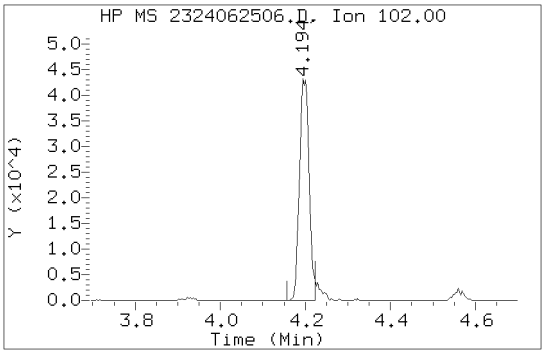
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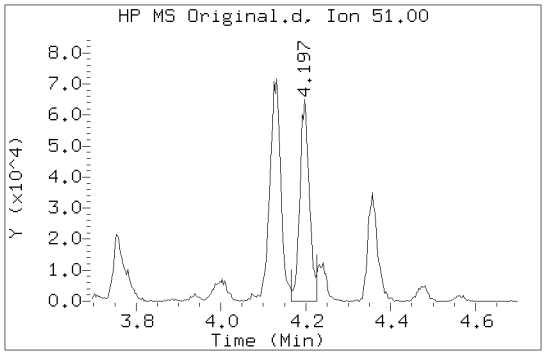
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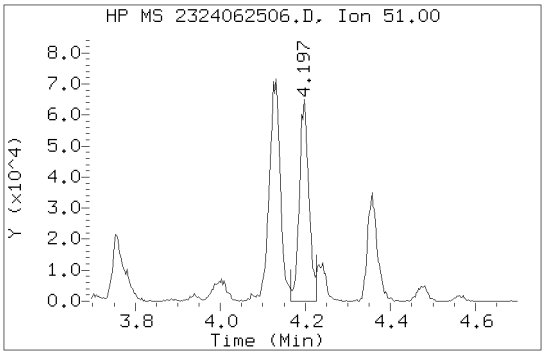
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AFTER

MASS
51
AREA
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HEIGHT
65128
27-Jun-2024
16:15



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 12:40
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062507.D Page 1
Report Date: 27-Jun-2024 16:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062507.D
Lab Smp Id: 1237
Inj Date : 25-JUN-2024 13:00
Operator : ILY Inst ID: ms23.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:00 Cal File: 2324062507.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.632	1.632	(0.375)	719765	50.0000	53.5491	
2 Chloromethane	50	1.785	1.785	(0.410)	406641	50.0000	49.5176	
3 Vinyl Chloride	62	1.849	1.849	(0.424)	426374	50.0000	52.7059	
4 Bromomethane	94	2.072	2.072	(0.476)	306932	50.0000	50.1421	
5 Chloroethane	64	2.144	2.144	(0.492)	225647	50.0000	50.6923	
6 Pentane	41	2.245	2.245	(0.516)	278838	50.0000	51.2341	
7 Trichlorofluoromethane	101	2.248	2.248	(0.516)	913991	50.0000	53.0686	
8 Dichlorofluoromethane	67	2.277	2.277	(0.523)	852875	50.0000	58.6624	
9 Ethyl Ether	74	2.442	2.442	(0.561)	263046	50.0000	57.9520	
10 1,1-Dichloroethene	61	2.578	2.578	(0.592)	576774	50.0000	56.1752	
11 Freon 113	101	2.590	2.590	(0.595)	391658	50.0000	56.0780	
12 Carbon Disulfide	76	2.619	2.619	(0.601)	1126146	50.0000	56.5458	
13 Iodomethane	127	2.677	2.677	(0.615)	219972	50.0000	52.6709	
14 Acrolein	56	2.761	2.761	(0.634)	377729	250.000	292.580(A)	
15 Isopropyl Alcohol	45	2.825	2.825	(0.648)	137431	250.000	258.063(A)	
16 3-Chloro-1-propene	41	2.851	2.851	(0.654)	432653	50.0000	55.1883	
17 Methylene Chloride	84	2.911	2.911	(0.668)	423758	50.0000	56.9541	
18 Acetone	58	2.920	2.920	(0.670)	198424	250.000	289.296(A)	
19 Methyl acetate	74	2.984	2.984	(0.685)	88550	50.0000	51.2828	
20 trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	539022	50.0000	57.2631	
21 Hexane	57	3.045	3.045	(0.699)	710430	50.0000	50.8910	
22 Methyl t-Butyl Ether	73	3.050	3.050	(0.700)	1476907	50.0000	58.7799	

Data File: 2324062507.D
Report Date: 27-Jun-2024 16:15

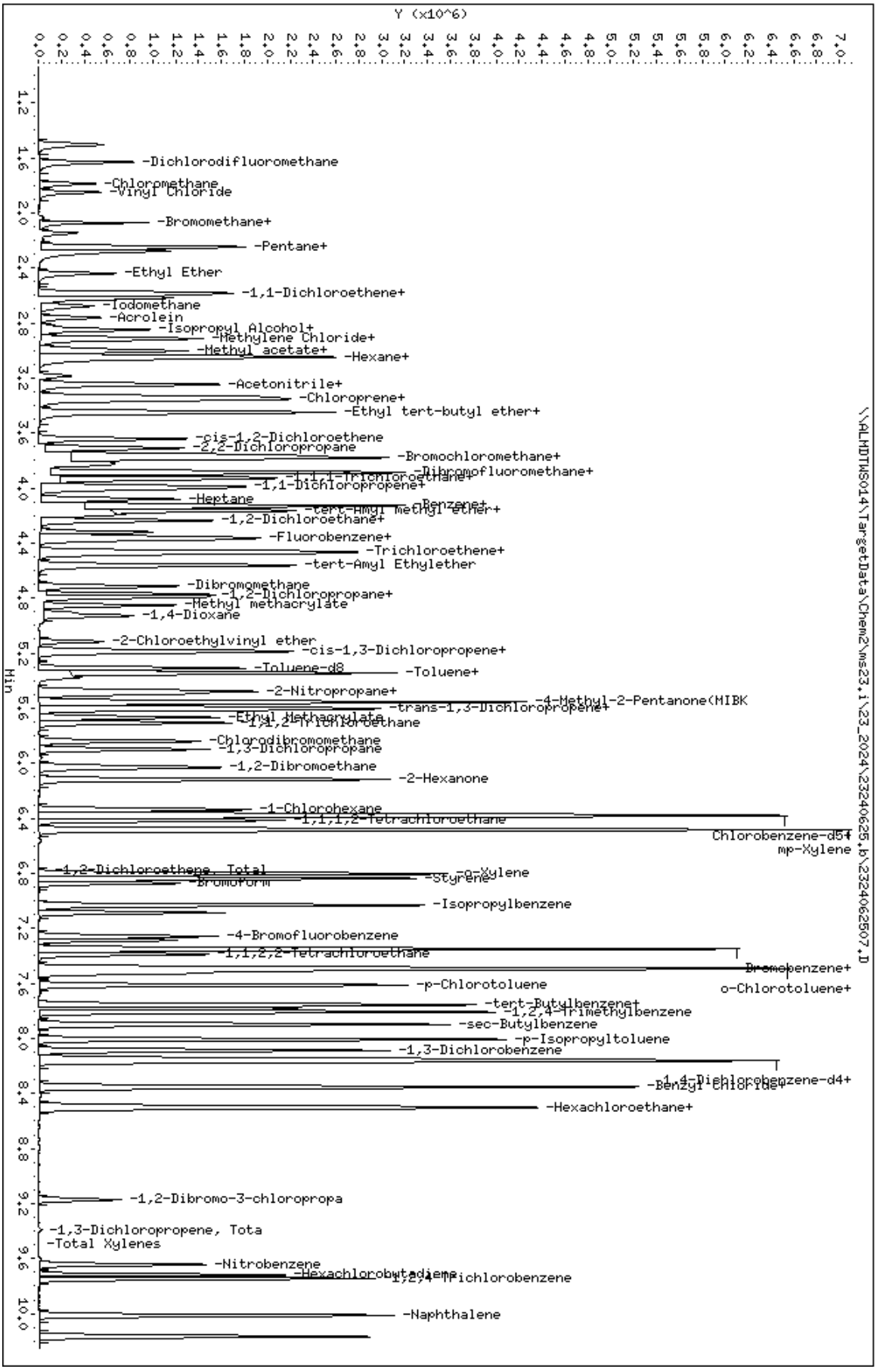
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.068	3.068	(0.704)	307625	250.000	293.895(A)	
	24 Acetonitrile	41	3.184	3.184	(0.731)	230387	250.000	291.650(A)	
	25 Diisopropyl ether	45	3.247	3.247	(0.745)	1007254	50.0000	57.9548	
	26 Chloroprene	53	3.334	3.334	(0.765)	641269	50.0000	52.9294	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	720177	50.0000	53.8592	
	28 Acrylonitrile	53	3.357	3.357	(0.771)	877946	250.000	252.996(AM)	MP
	29 Ethyl tert-butyl ether	59	3.450	3.450	(0.792)	1342880	50.0000	53.5600	
	30 n-Propanol	41	3.447	3.447	(0.791)	235929	500.000	580.063(A)	
	31 Vinyl Acetate	86	3.450	3.450	(0.792)	117168	50.0000	52.4963	
	32 cis-1,2-Dichloroethene	61	3.644	3.644	(0.837)	562927	50.0000	57.7992	
	33 2,2-Dichloropropane	77	3.711	3.711	(0.852)	733452	50.0000	57.0593(M)	MP
	34 Bromochloromethane	128	3.757	3.757	(0.862)	272717	50.0000	57.9983	
	35 Cyclohexane	84	3.783	3.783	(0.868)	601979	50.0000	55.1089	
	36 Chloroform	83	3.780	3.780	(0.868)	922958	50.0000	56.4968	
	37 Ethyl Acetate	43	3.815	3.815	(0.876)	416156	50.0000	57.9614	
	38 Methyl acrylate	55	3.832	3.832	(0.880)	407226	50.0000	53.2905	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.893)	787031	50.0000	53.0746(M)	MP
$	41 Dibromofluoromethane	113	3.884	3.884	(0.892)	271120	30.0000	30.1097	
	40 Tetrahydrofuran	42	3.881	3.881	(0.891)	560505	250.000	295.393(A)	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	874174	50.0000	58.5453	
	43 2-Butanone	72	3.936	3.936	(0.904)	308609	250.000	292.422(A)	
	44 1,1-Dichloropropene	75	3.988	3.988	(0.916)	609437	50.0000	57.3390	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	377824	50.0000	54.7243	
	46 Heptane	71	4.078	4.078	(0.936)	269172	50.0000	54.8091	
	47 Benzene	78	4.127	4.127	(0.947)	1599566	50.0000	57.3442	
	48 Propionitrile	54	4.110	4.110	(0.944)	318888	250.000	257.542(AM)	I
	49 Methacrylonitrile	67	4.127	4.127	(0.947)	196912	50.0000	57.8077	
	50 tert-Amyl methyl ether	73	4.162	4.162	(0.955)	1371197	50.0000	54.0813	
	54 Isobutyl alcohol	42	4.165	4.165	(0.956)	106903	500.000	512.291(A)	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	348418	30.0000	30.2253(M)	MP
	52 1,2-Dichloroethane	62	4.235	4.235	(0.972)	753560	50.0000	57.2566	
	53 tert-Amyl Alcohol	59	4.237	4.237	(0.973)	223752	250.000	286.856(A)	
*	55 Fluorobenzene	96	4.356	4.356	(1.000)	916291	30.0000		
	56 Diisobutylene	57	4.374	4.374	(1.004)	780195	50.0000	51.4225	
	57 Trichloroethene	95	4.458	4.458	(1.023)	481741	50.0000	56.3775	
	58 Methyl cyclohexane	83	4.475	4.475	(0.703)	641007	50.0000	55.7185	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	987602	50.0000	58.5633	
	60 Dibromomethane	93	4.712	4.712	(1.082)	321706	50.0000	58.5481	
	61 1,2-Dichloropropane	63	4.773	4.773	(1.096)	352466	50.0000	57.9447	
	62 Bromodichloromethane	83	4.793	4.793	(1.100)	696470	50.0000	59.4449	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	381330	50.0000	52.4727	
	64 1,4-Dioxane	88	4.906	4.906	(1.126)	173694	1250.00	1465.28(A)	
	65 2-Chloroethylvinyl ether	63	5.118	5.118	(1.175)	192392	50.0000	53.7414	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	753775	50.0000	53.1938	
	67 Octane	85	5.196	5.196	(0.816)	259420	50.0000	57.6626	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	975888	30.0000	30.3599	
	69 Toluene	92	5.344	5.344	(0.839)	1116562	50.0000	56.5843	
	70 Chloroacetonitrile	75	5.378	5.378	(0.845)	163430	250.000	264.121(A)	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	908380	250.000	270.025(A)	
	72 1,1-Dichloro-2-Propanone	63	5.497	5.497	(0.864)	78425	250.000	282.052(A)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	1973695	250.000	272.976(A)	
	75 trans-1,3-Dichloropropene	75	5.593	5.593	(0.879)	787276	50.0000	53.8501	
	74 Tetrachloroethene	164	5.607	5.607	(0.881)	482469	50.0000	56.2431	
	76 Ethyl Methacrylate	69	5.665	5.665	(0.890)	643225	50.0000	53.6102	

Data File: 2324062507.D Page 3
Report Date: 27-Jun-2024 16:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.705	5.705	(0.896)	342075	50.0000	58.4192	
78	Chlorodibromomethane	129	5.842	5.842	(0.918)	635027	50.0000	53.3414	
79	1,3-Dichloropropane	76	5.899	5.899	(0.927)	728498	50.0000	59.3062	
80	1,2-Dibromoethane	107	6.021	6.021	(0.946)	503479	50.0000	58.7328	
81	2-Hexanone	43	6.117	6.117	(0.961)	1440967	250.000	270.131(A)	
82	1-Chlorohexane	91	6.337	6.337	(0.995)	576702	50.0000	55.9838	
* 83	Chlorobenzene-d5	82	6.366	6.366	(1.000)	403275	30.0000		
84	Chlorobenzene	112	6.380	6.380	(1.002)	1321128	50.0000	58.2860	
85	Ethylbenzene	106	6.383	6.383	(1.003)	682677	50.0000	57.1584	
86	1,1,1,2-Tetrachloroethane	131	6.415	6.415	(1.008)	553969	50.0000	59.5778	
87	mp-Xylene	106	6.484	6.484	(1.019)	1680062	100.000	116.346	
88	o-Xylene	106	6.803	6.803	(1.069)	831911	50.0000	58.6069	
89	Styrene	104	6.838	6.838	(0.840)	1403296	50.0000	54.5374	
90	Bromoform	173	6.872	6.872	(0.844)	489935	50.0000	53.8645	
91	Isopropylbenzene	105	7.031	7.031	(0.863)	1982640	50.0000	54.2586	
M 100	1,2-Dichloroethene, Total	61				1101949	100.000	115.062	
$ 92	4-Bromofluorobenzene	174	7.260	7.260	(0.892)	404103	30.0000	30.3810	
93	Bromobenzene	156	7.350	7.350	(0.903)	648024	50.0000	56.7397	
94	n-Propylbenzene	120	7.350	7.350	(0.903)	595074	50.0000	55.0257	
95	1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	557550	50.0000	59.0316	
96	o-Chlorotoluene	91	7.486	7.486	(0.919)	1702724	50.0000	57.7306	
97	1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	1854334	50.0000	58.1574	
98	1,2,3-Trichloropropane	110	7.509	7.509	(0.922)	239537	50.0000	59.7873	
99	trans-1,4-Dichloro-2-butene	53	7.529	7.529	(0.925)	203565	50.0000	54.3006(M)	MP
101	p-Chlorotoluene	91	7.613	7.613	(0.935)	1561850	50.0000	57.2732	
102	tert-Butylbenzene	134	7.758	7.758	(0.953)	460341	50.0000	57.6585	
103	Pentachloroethane	117	7.778	7.778	(0.955)	412506	50.0000	54.7490(M)	MP
104	1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	1905857	50.0000	58.8533	
105	sec-Butylbenzene	105	7.900	7.900	(0.970)	2185130	50.0000	57.5562	
106	p-Isopropyltoluene	134	8.007	8.007	(0.983)	543465	50.0000	59.2639	
107	1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	1151646	50.0000	57.2276	
* 108	1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	459775	30.0000		
109	1,4-Dichlorobenzene	146	8.158	8.158	(1.002)	1158461	50.0000	56.1577	
110	Benzyl Chloride	126	8.349	8.349	(1.025)	265568	50.0000	53.1242	
111	n-Butylbenzene	134	8.355	8.355	(1.026)	488984	50.0000	57.6157	
112	Hexachloroethane	117	8.497	8.497	(1.043)	390419	50.0000	54.0323	
113	1,2-Dichlorobenzene	146	8.505	8.505	(1.044)	1115087	50.0000	57.0790	
114	1,2-Dibromo-3-chloropropane	75	9.171	9.171	(1.126)	154461	50.0000	59.2893	
115	Nitrobenzene	77	9.643	9.643	(1.184)	604810	500.000	525.985(A)	
116	Hexachlorobutadiene	225	9.718	9.718	(1.193)	374263	50.0000	55.6924	
M 120	1,3-Dichloropropene, Total	75				1541051	100.000	107.044	
117	1,2,4-Trichlorobenzene	180	9.747	9.747	(1.197)	791680	50.0000	58.5688	
M 121	Total Xylenes	106				2511973	150.000	174.953	
118	Naphthalene	128	10.014	10.014	(1.230)	2085245	50.0000	54.9810	
119	1,2,3-Trichlorobenzene	180	10.167	10.167	(1.249)	793619	50.0000	59.3331	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

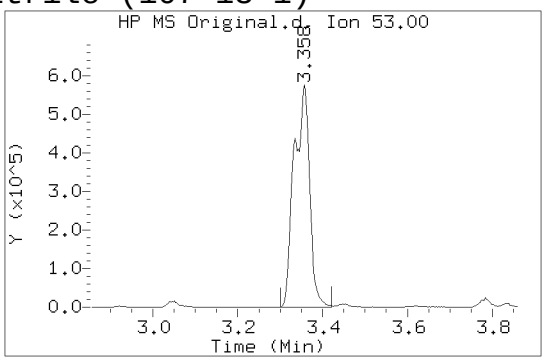

Y (x10^6)
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-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Dibromofluoromethane+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-tert-Amyl Methyl ether+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
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-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-1,2-Dichloroethene, Total
-o-Xylene
-Bromoform
-Styrene
-Isopropylbenzene
-4-Bromofluorobenzene
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Bromobenzene+
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o-Chlorotoluene+
-tert-Butylbenzene+
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-sec-Butylbenzene
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-Benzyl Chloride+
-Hexachloroethane+
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Page 1

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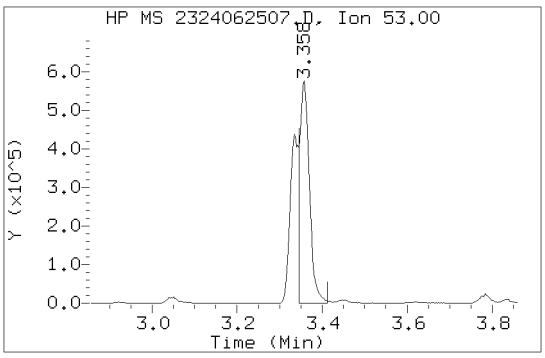
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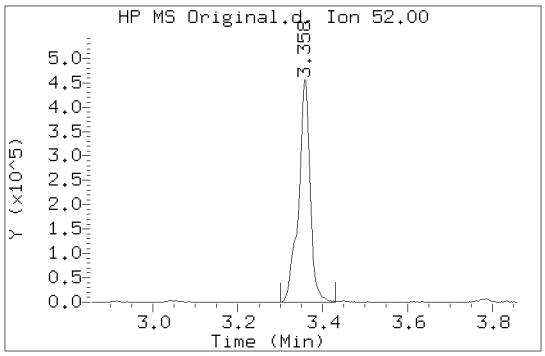
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25-Jun-2024
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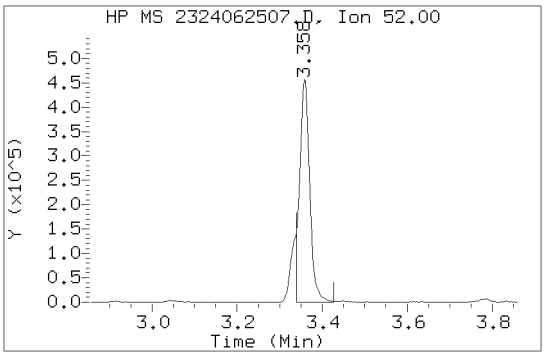
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27-Jun-2024
16:15



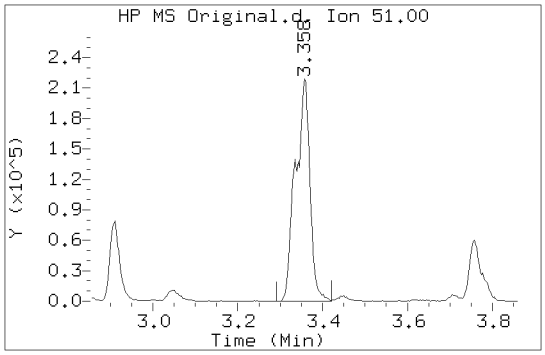
BEFORE
MASS
52
AREA
853850
HEIGHT
455727
25-Jun-2024
19:34



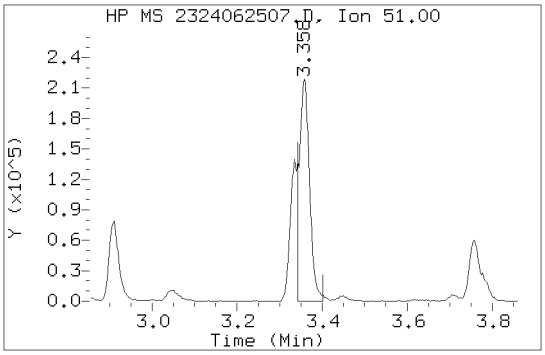
AFTER
MASS
52
AREA
730552
HEIGHT
455657
27-Jun-2024
16:15



BEFORE
MASS
51
AREA
512970
HEIGHT
219072
25-Jun-2024
19:34



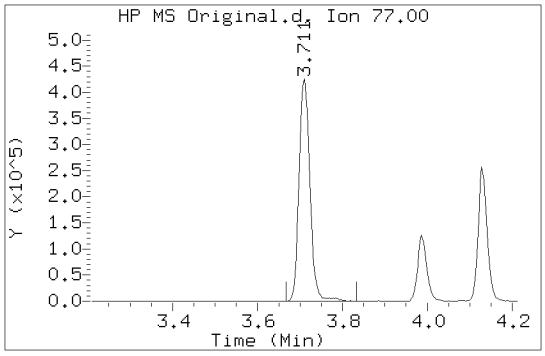
AFTER
MASS
51
AREA
354357
HEIGHT
218816
27-Jun-2024
16:15



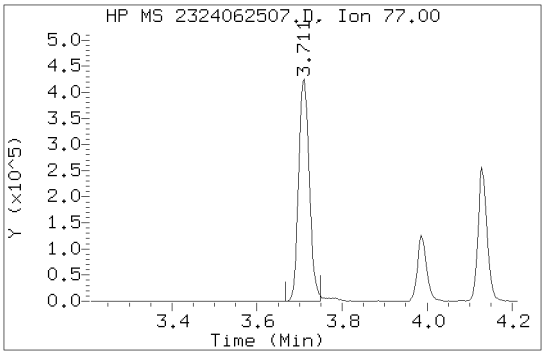
2,2-Dichloropropane (594-20-7)

Reason Code: MP

BEFORE
MASS
77
AREA
749581
HEIGHT
425536
25-Jun-2024
19:34



AFTER
MASS
77
AREA
733452
HEIGHT
425536
27-Jun-2024
16:15

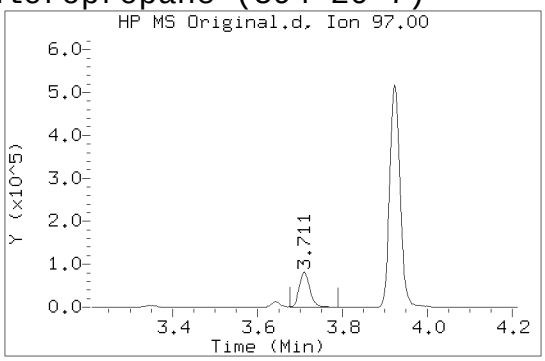


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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

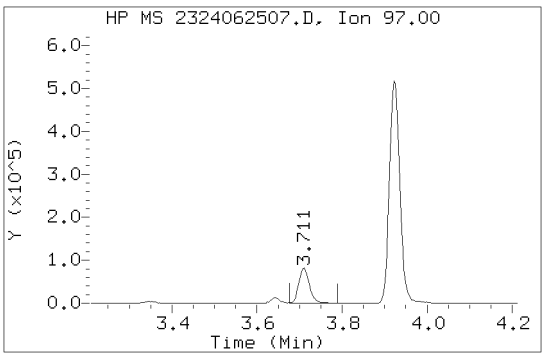
2,2-Dichloropropane (594-20-7)

Reason Code: MP

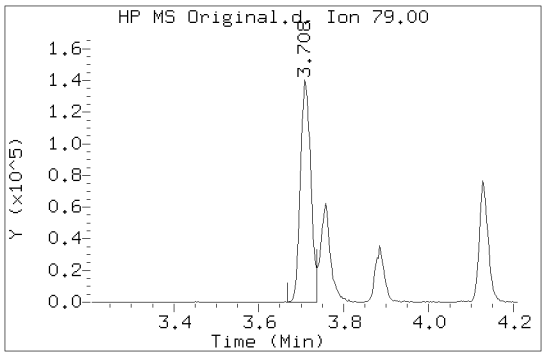
BEFORE
MASS
97
AREA
140090
HEIGHT
83064
25-Jun-2024
19:34



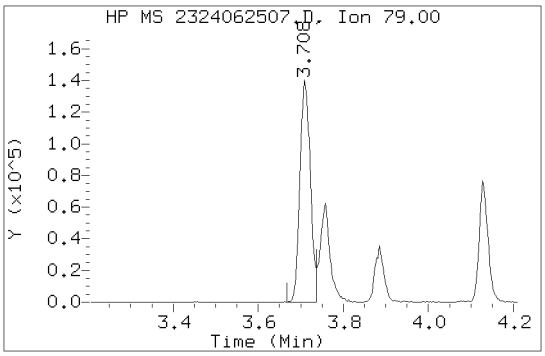
AFTER
MASS
97
AREA
140090
HEIGHT
83064
27-Jun-2024
16:15



BEFORE
MASS
79
AREA
236220
HEIGHT
140352
25-Jun-2024
19:34



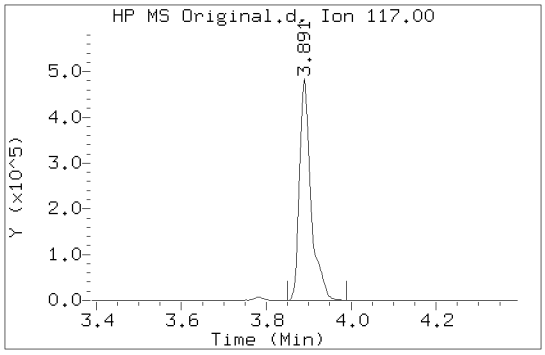
AFTER
MASS
79
AREA
236220
HEIGHT
140352
27-Jun-2024
16:15



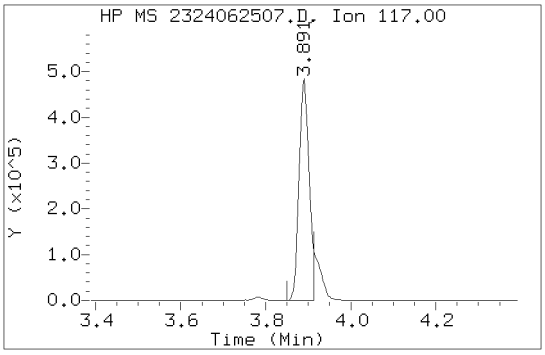
Carbon Tetrachloride (56-23-5)

Reason Code: MP

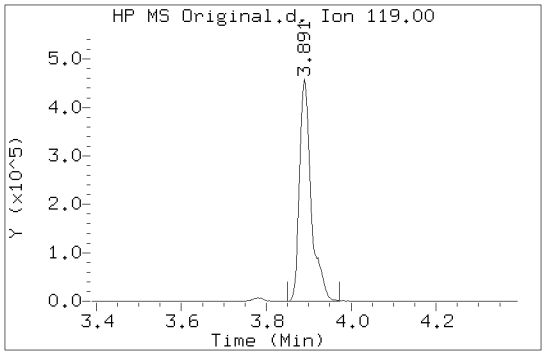
BEFORE
MASS
117
AREA
898618
HEIGHT
484316
25-Jun-2024
19:34



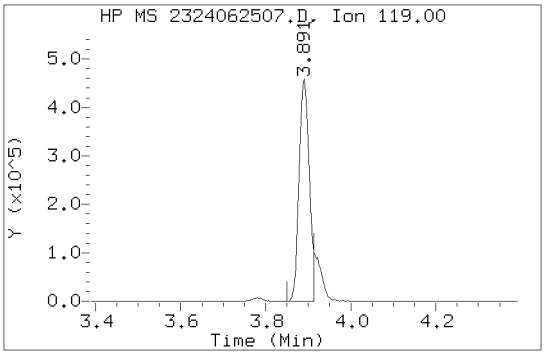
AFTER
MASS
117
AREA
787031
HEIGHT
484316
27-Jun-2024
16:15



BEFORE
MASS
119
AREA
866586
HEIGHT
458831
25-Jun-2024
19:34



AFTER
MASS
119
AREA
756769
HEIGHT
458831
27-Jun-2024
16:15



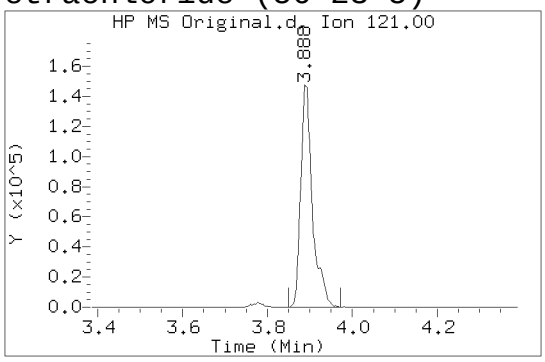
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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

Carbon Tetrachloride (56-23-5)

Reason Code: MP

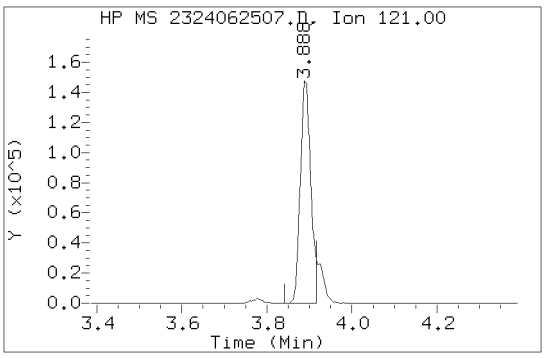
BEFORE

MASS
121
AREA
279766
HEIGHT
147584
25-Jun-2024
19:34



AFTER

MASS
121
AREA
249844
HEIGHT
147584
27-Jun-2024
16:15

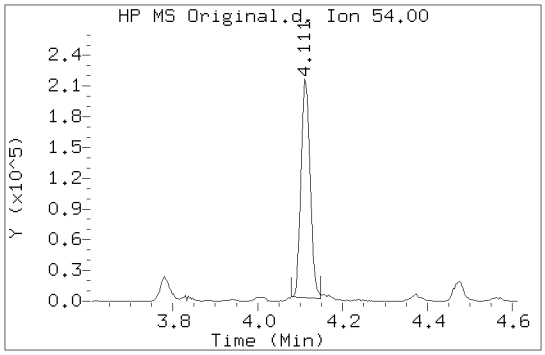


Propionitrile (107-12-0)

Reason Code: I

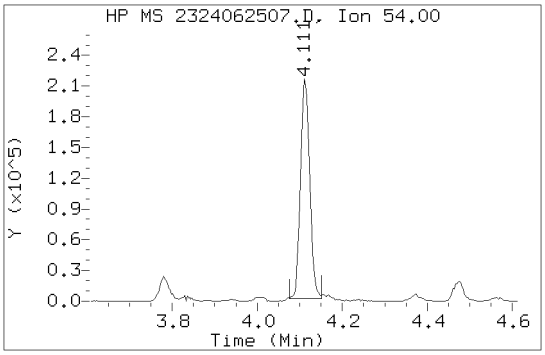
BEFORE

MASS
54
AREA
314219
HEIGHT
213465
25-Jun-2024
19:34



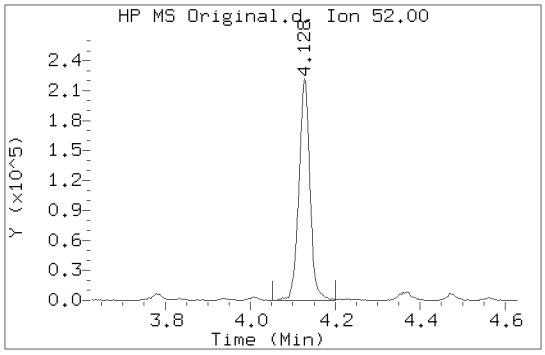
AFTER

MASS
54
AREA
318888
HEIGHT
214480
27-Jun-2024
16:15



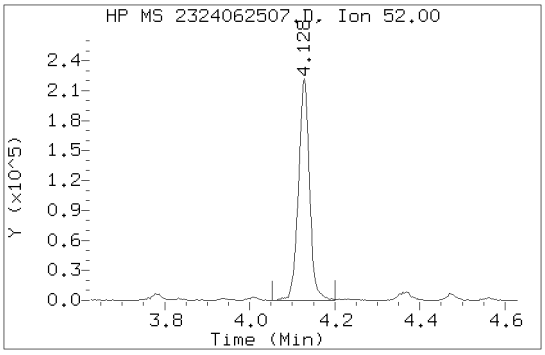
BEFORE

MASS
52
AREA
396492
HEIGHT
222016
25-Jun-2024
19:34



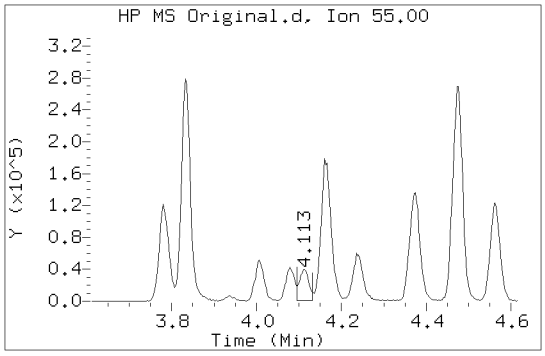
AFTER

MASS
52
AREA
396492
HEIGHT
222016
27-Jun-2024
16:15



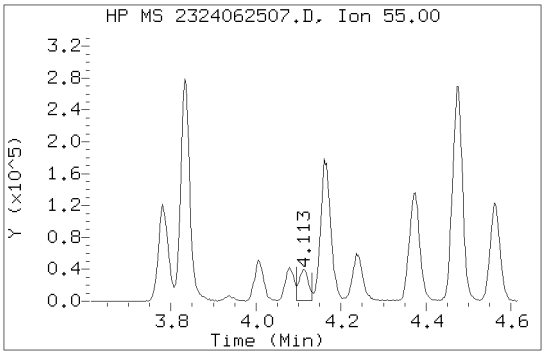
BEFORE

MASS
55
AREA
59536
HEIGHT
39245
25-Jun-2024
19:34



AFTER

MASS
55
AREA
59536
HEIGHT
39245
27-Jun-2024
16:15

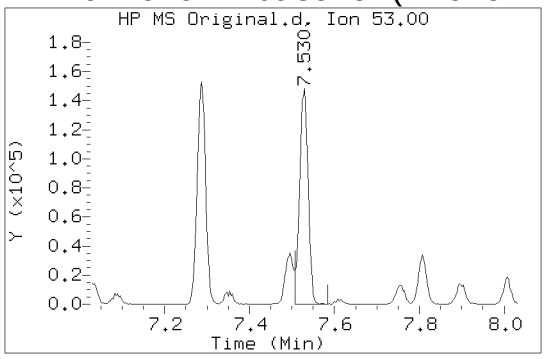


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Inj Date : 25-JUN-2024 13:00
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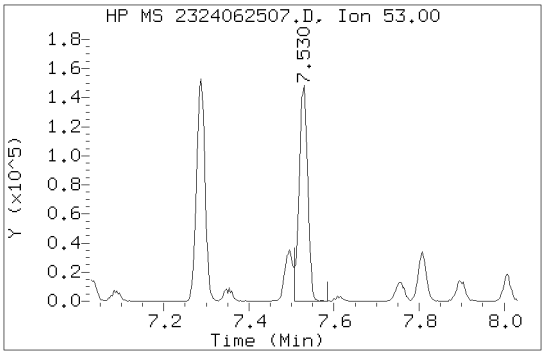
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

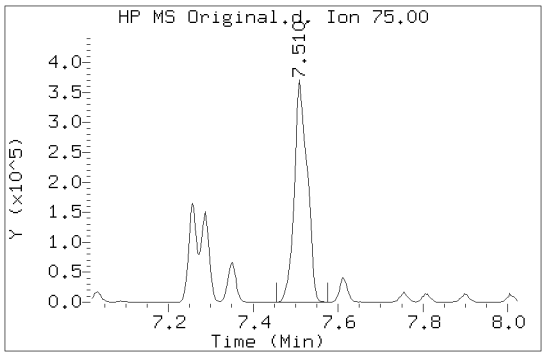
BEFORE
MASS
53
AREA
203565
HEIGHT
148608
25-Jun-2024
19:34



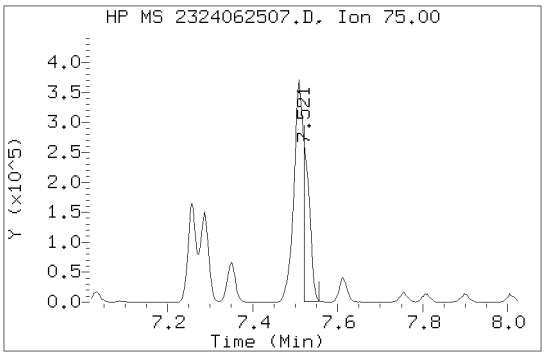
AFTER
MASS
53
AREA
203565
HEIGHT
148608
27-Jun-2024
16:15



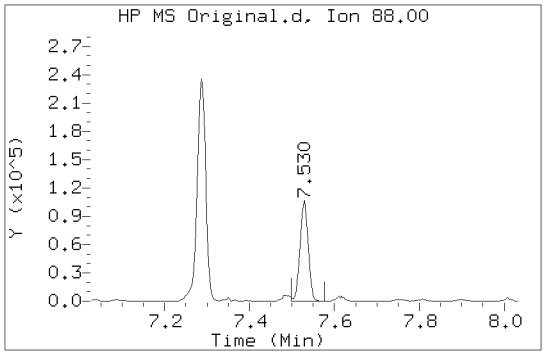
BEFORE
MASS
75
AREA
785667
HEIGHT
371008
25-Jun-2024
19:34



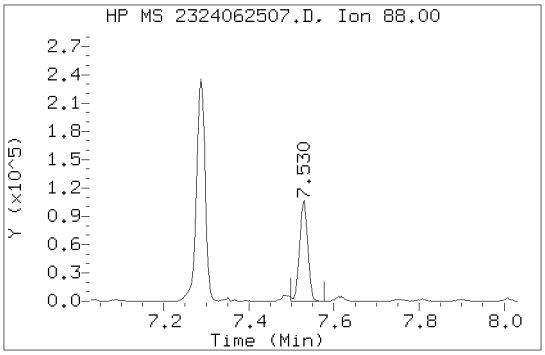
AFTER
MASS
75
AREA
249886
HEIGHT
261073
27-Jun-2024
16:15



BEFORE
MASS
88
AREA
139349
HEIGHT
107000
25-Jun-2024
19:34



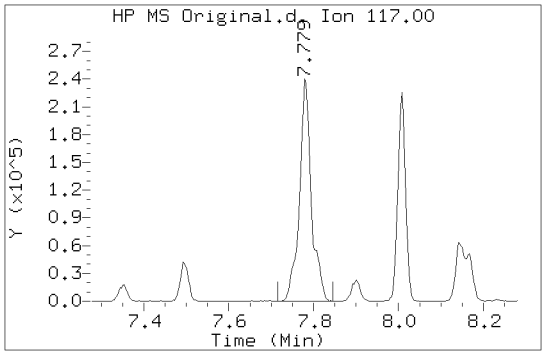
AFTER
MASS
88
AREA
139349
HEIGHT
107000
27-Jun-2024
16:15



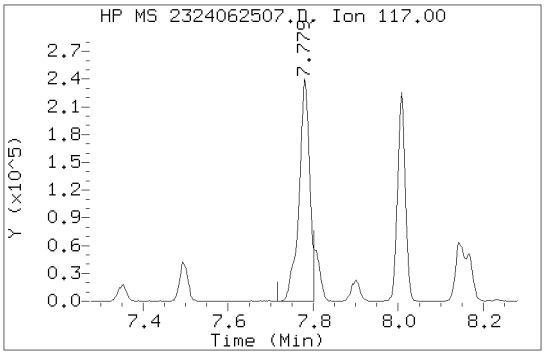
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
460899
HEIGHT
240192
25-Jun-2024
19:34



AFTER
MASS
117
AREA
412506
HEIGHT
240192
27-Jun-2024
16:15

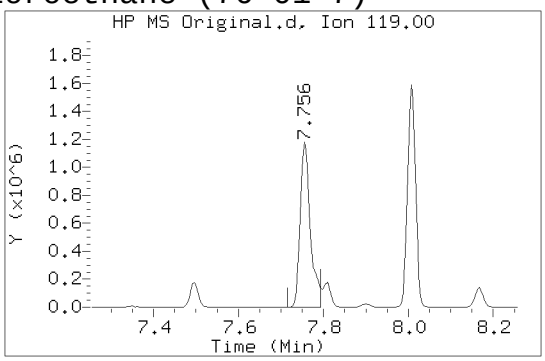


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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
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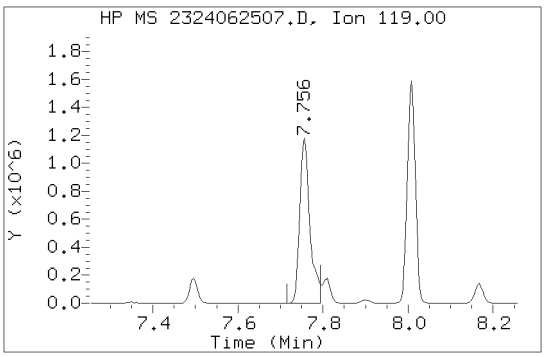
Pentachloroethane (76-01-7)

Reason Code: MP

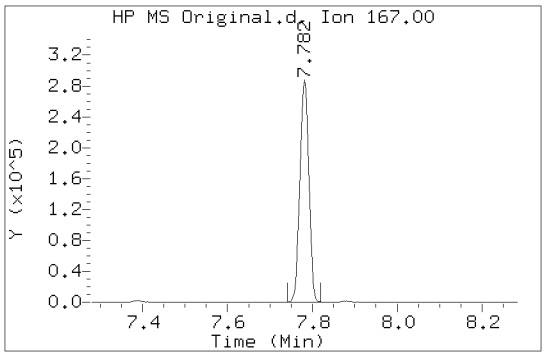
BEFORE
MASS
119
AREA
1942858
HEIGHT
1181001
25-Jun-2024
19:34



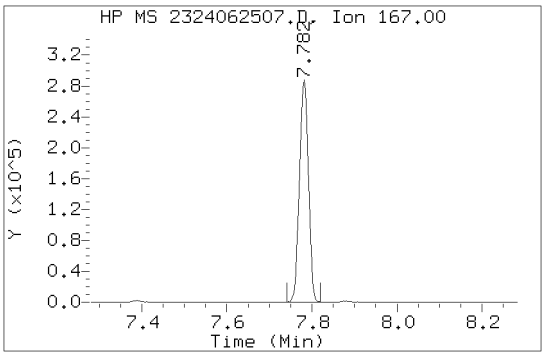
AFTER
MASS
119
AREA
1942858
HEIGHT
1181001
27-Jun-2024
16:15



BEFORE
MASS
167
AREA
414453
HEIGHT
287655
25-Jun-2024
19:34



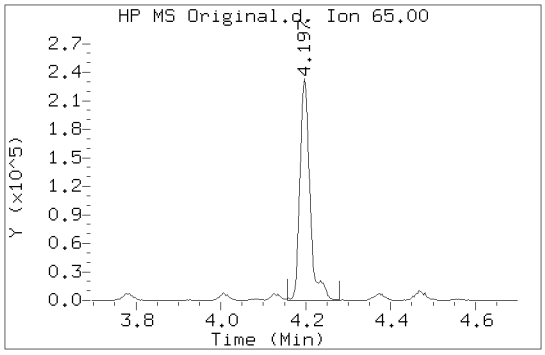
AFTER
MASS
167
AREA
414453
HEIGHT
287655
27-Jun-2024
16:15



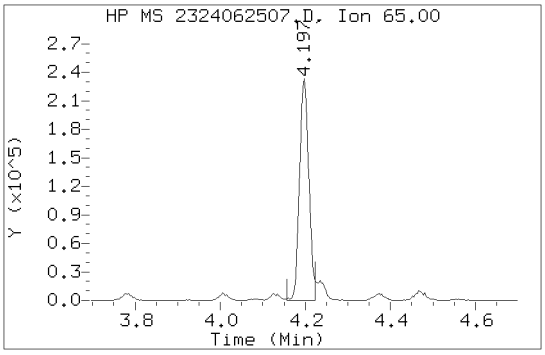
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

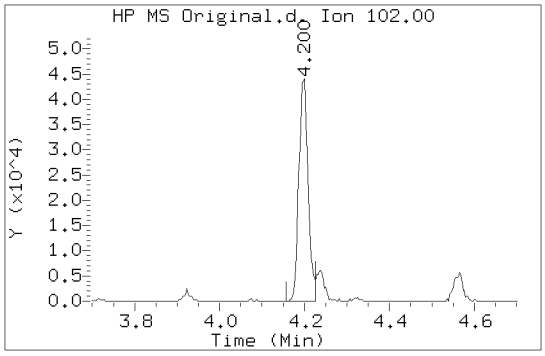
BEFORE
MASS
65
AREA
376238
HEIGHT
232890
25-Jun-2024
19:34



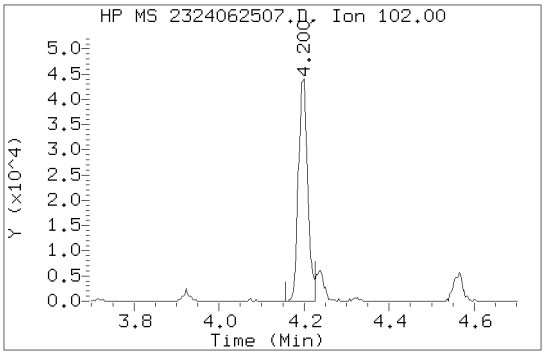
AFTER
MASS
65
AREA
348418
HEIGHT
232890
27-Jun-2024
16:15



BEFORE
MASS
102
AREA
66020
HEIGHT
44048
25-Jun-2024
19:34



AFTER
MASS
102
AREA
66020
HEIGHT
44048
27-Jun-2024
16:15



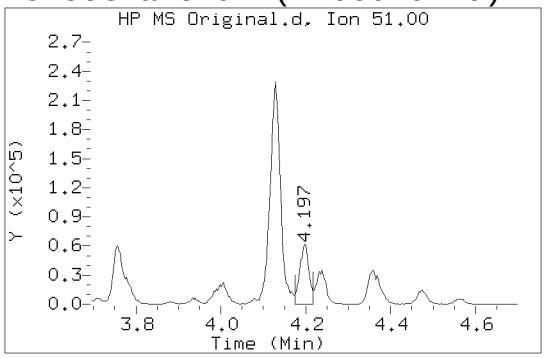
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Inj Date : 25-JUN-2024 13:00
InstruID : ms23.i
LabSampID : 1237

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

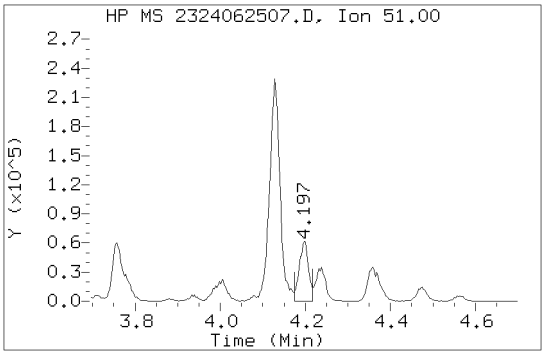
BEFORE

MASS
51
AREA
92513
HEIGHT
61275
25-Jun-2024
19:34



AFTER

MASS
51
AREA
92513
HEIGHT
61275
27-Jun-2024
16:15



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:15
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 13:00
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062508.D Page 1
Report Date: 27-Jun-2024 16:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062508.D
Lab Smp Id: 1238
Inj Date : 25-JUN-2024 13:20
Operator : ILY Inst ID: ms23.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:20 Cal File: 2324062508.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.632	1.632	(0.375)	1422651	100.000	105.671	
2	Chloromethane	50	1.788	1.785	(0.411)	775316	100.000	94.2593	
3	Vinyl Chloride	62	1.849	1.849	(0.424)	877458	100.000	108.291	
4	Bromomethane	94	2.072	2.072	(0.476)	622263	100.000	101.479	
5	Chloroethane	64	2.144	2.144	(0.492)	459834	100.000	103.136	
6	Pentane	41	2.240	2.245	(0.514)	541408	100.000	99.3182	
7	Trichlorofluoromethane	101	2.248	2.248	(0.516)	1831379	100.000	106.162	
8	Dichlorofluoromethane	67	2.277	2.277	(0.523)	1616116	100.000	110.980	
9	Ethyl Ether	74	2.439	2.442	(0.560)	484723	100.000	106.617	
10	1,1-Dichloroethene	61	2.576	2.578	(0.591)	1116221	100.000	108.539	
11	Freon 113	101	2.590	2.590	(0.595)	769355	100.000	109.979	
12	Carbon Disulfide	76	2.619	2.619	(0.601)	2197757	100.000	110.175	
13	Iodomethane	127	2.677	2.677	(0.615)	460467	100.000	99.5723	
14	Acrolein	56	2.761	2.761	(0.634)	703395	500.000	543.952(A)	
15	Isopropyl Alcohol	45	2.825	2.825	(0.648)	258796	500.000	486.971(A)	
16	3-Chloro-1-propene	41	2.848	2.851	(0.654)	817321	100.000	103.919	
17	Methylene Chloride	84	2.909	2.911	(0.668)	797894	100.000	107.065	
18	Acetone	58	2.920	2.920	(0.670)	366152	500.000	532.976(A)	
19	Methyl acetate	74	2.984	2.984	(0.685)	165435	100.000	95.6550	
20	trans-1,2-Dichloroethene	61	3.001	3.004	(0.689)	1029352	100.000	109.177	
21	Hexane	57	3.045	3.045	(0.699)	1364814	100.000	97.6090	
22	Methyl t-Butyl Ether	73	3.047	3.050	(0.700)	2743795	100.000	109.025	

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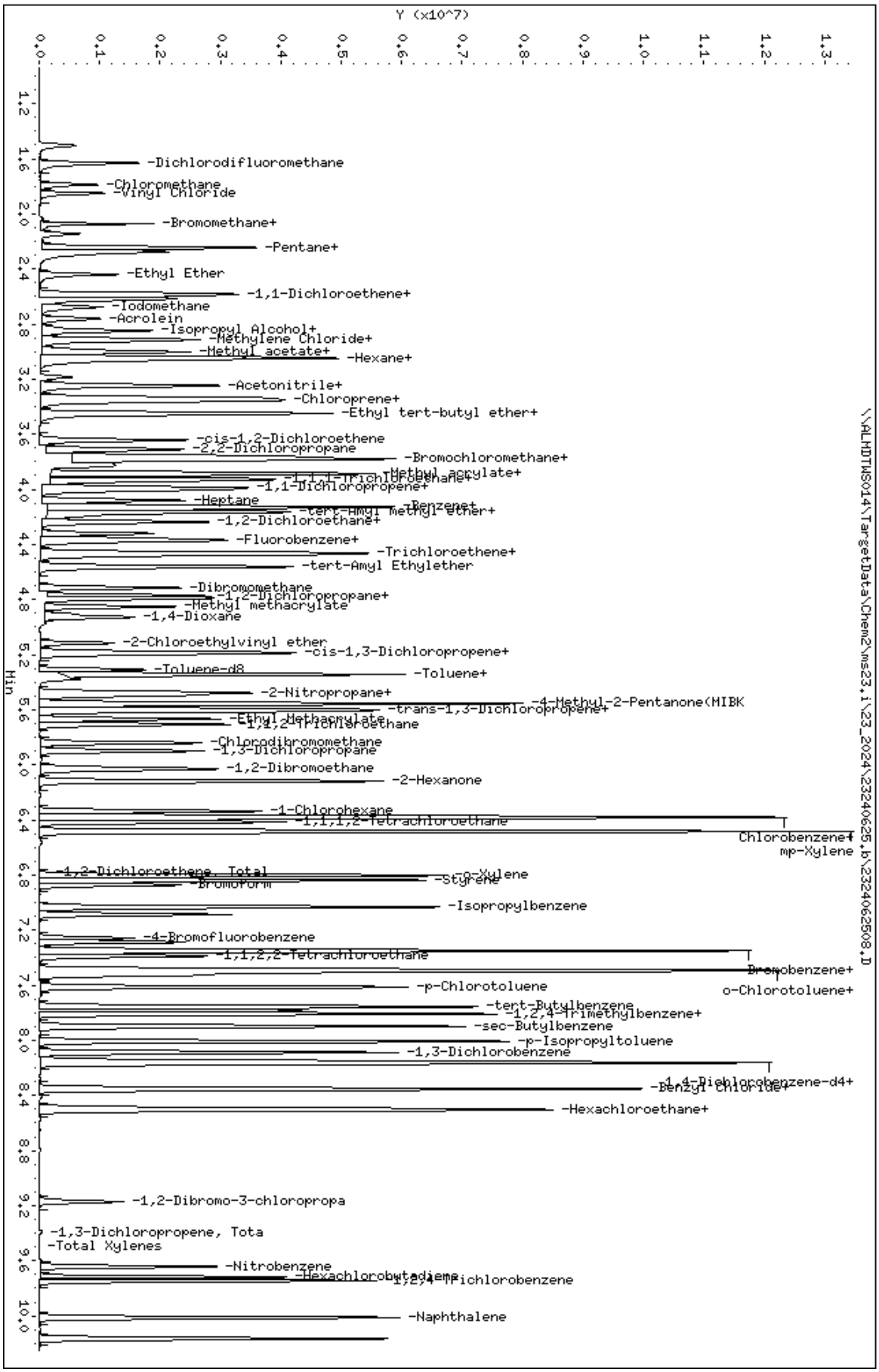
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.071	3.068	(0.705)	576981	500.000	550.337(A)	
	24 Acetonitrile	41	3.186	3.184	(0.732)	432786	500.000	546.984(A)	
	25 Diisopropyl ether	45	3.247	3.247	(0.745)	1893802	100.000	108.788	
	26 Chloroprene	53	3.334	3.334	(0.765)	1237055	100.000	101.713	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	1340093	100.000	99.8852	
	28 Acrylonitrile	53	3.357	3.357	(0.771)	1771801	500.000	508.516(AM)	MP
	29 Ethyl tert-butyl ether	59	3.447	3.450	(0.791)	2505280	100.000	99.5722	
	30 n-Propanol	41	3.447	3.447	(0.791)	441759	1000.00	1084.37(A)	
	31 Vinyl Acetate	86	3.450	3.450	(0.792)	224756	100.000	100.255	
	32 cis-1,2-Dichloroethene	61	3.641	3.644	(0.836)	1059398	100.000	108.599	
	33 2,2-Dichloropropane	77	3.711	3.711	(0.852)	1423630	100.000	110.573	
	34 Bromochloromethane	128	3.757	3.757	(0.862)	503623	100.000	106.932	
	35 Cyclohexane	84	3.780	3.783	(0.868)	1191234	100.000	108.877	
	36 Chloroform	83	3.780	3.780	(0.868)	1733898	100.000	105.965	
	37 Ethyl Acetate	43	3.815	3.815	(0.876)	791908	100.000	110.117	
	38 Methyl acrylate	55	3.832	3.832	(0.880)	764157	100.000	99.6022	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.893)	1488538	100.000	100.016(M)	MP
$	41 Dibromofluoromethane	113	3.887	3.884	(0.892)	267560	30.0000	29.6663	
	40 Tetrahydrofuran	42	3.881	3.881	(0.891)	1037493	500.000	545.887(A)	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	1657226	100.000	110.809	
	43 2-Butanone	72	3.939	3.936	(0.904)	579427	500.000	548.147(A)	
	44 1,1-Dichloropropene	75	3.986	3.988	(0.915)	1181490	100.000	110.981	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	724464	100.000	104.762	
	46 Heptane	71	4.078	4.078	(0.936)	519741	100.000	105.659	
	47 Benzene	78	4.130	4.127	(0.948)	3016978	100.000	107.983	
	48 Propionitrile	54	4.113	4.110	(0.944)	626298	500.000	503.779(A)	
	49 Methacrylonitrile	67	4.127	4.127	(0.947)	372500	100.000	109.179	
	50 tert-Amyl methyl ether	73	4.162	4.162	(0.955)	2545425	100.000	100.046	
	54 Isobutyl alcohol	42	4.168	4.165	(0.957)	223192	1000.00	1009.81(AQ)	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	332080	30.0000	28.7614	
	52 1,2-Dichloroethane	62	4.235	4.235	(0.972)	1402756	100.000	106.411	
	53 tert-Amyl Alcohol	59	4.237	4.237	(0.973)	427912	500.000	547.707(A)	
*	55 Fluorobenzene	96	4.356	4.356	(1.000)	917775	30.0000		
	56 Diisobutylene	57	4.371	4.374	(1.003)	1511490	100.000	101.064	
	57 Trichloroethene	95	4.458	4.458	(1.023)	911445	100.000	106.493	
	58 Methyl cyclohexane	83	4.472	4.475	(0.703)	1267264	100.000	107.951	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	1859509	100.000	110.088	
	60 Dibromomethane	93	4.712	4.712	(1.082)	609243	100.000	110.698	
	61 1,2-Dichloropropane	63	4.770	4.773	(1.095)	672297	100.000	110.345	
	62 Bromodichloromethane	83	4.793	4.793	(1.100)	1306192	100.000	111.306	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	727328	100.000	99.7013	
	64 1,4-Dioxane	88	4.903	4.906	(1.126)	333044	2500.00	2805.01(A)	
	65 2-Chloroethylvinyl ether	63	5.115	5.118	(1.174)	417185	100.000	99.4452	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	1441791	100.000	99.4548	
	67 Octane	85	5.196	5.196	(0.816)	505688	100.000	110.153	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	965840	30.0000	29.4463	
	69 Toluene	92	5.344	5.344	(0.839)	2129239	100.000	105.745	
	70 Chloroacetonitrile	75	5.378	5.378	(0.845)	311694	500.000	491.844(A)	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	1715206	500.000	498.317(A)	
	72 1,1-Dichloro-2-Propanone	63	5.497	5.497	(0.864)	152490	500.000	537.452(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	3665300	500.000	495.839(A)	
	75 trans-1,3-Dichloropropene	75	5.593	5.593	(0.879)	1490778	100.000	99.7348	
	74 Tetrachloroethene	164	5.610	5.607	(0.881)	923439	100.000	105.495	
	76 Ethyl Methacrylate	69	5.668	5.665	(0.890)	1218362	100.000	99.2592	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.705	5.705	(0.896)	635754	100.000	106.401	
78	Chlorodibromomethane	129	5.839	5.842	(0.917)	1204535	100.000	98.9277	
79	1,3-Dichloropropane	76	5.899	5.899	(0.927)	1363400	100.000	108.773	
80	1,2-Dibromoethane	107	6.021	6.021	(0.946)	948437	100.000	108.426	
81	2-Hexanone	43	6.117	6.117	(0.961)	2702708	500.000	495.392(A)	
82	1-Chlorohexane	91	6.337	6.337	(0.995)	1137949	100.000	108.257	
* 83	Chlorobenzene-d5	82	6.366	6.366	(1.000)	411507	30.0000	(M)	I
84	Chlorobenzene	112	6.377	6.380	(1.002)	2503203	100.000	108.228	
85	Ethylbenzene	106	6.383	6.383	(1.003)	1294890	100.000	106.248	
86	1,1,1,2-Tetrachloroethane	131	6.415	6.415	(1.008)	1045514	100.000	110.193	
87	mp-Xylene	106	6.481	6.484	(1.018)	3209974	200.000	217.846(A)	
88	o-Xylene	106	6.803	6.803	(1.069)	1592562	100.000	109.949	
89	Styrene	104	6.838	6.838	(0.840)	2664565	100.000	100.484	
90	Bromoform	173	6.872	6.872	(0.844)	943750	100.000	100.613	
91	Isopropylbenzene	105	7.031	7.031	(0.863)	3847733	100.000	102.255	
M 100	1,2-Dichloroethene, Total	61				2088750	200.000	217.776	
$ 92	4-Bromofluorobenzene	174	7.257	7.260	(0.891)	412155	30.0000	30.1222	
93	Bromobenzene	156	7.350	7.350	(0.903)	1230185	100.000	104.709	
94	n-Propylbenzene	120	7.350	7.350	(0.903)	1170335	100.000	105.201	
95	1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	1055370	100.000	108.623	
96	o-Chlorotoluene	91	7.486	7.486	(0.919)	3244295	100.000	106.930	
97	1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	3580215	100.000	109.155	
98	1,2,3-Trichloropropane	110	7.506	7.509	(0.922)	448666	100.000	108.862	
99	trans-1,4-Dichloro-2-butene	53	7.529	7.529	(0.925)	388645	100.000	100.493(Q)	
101	p-Chlorotoluene	91	7.613	7.613	(0.935)	3012791	100.000	107.398	
102	tert-Butylbenzene	134	7.752	7.758	(0.952)	883541	100.000	107.579	
103	Pentachloroethane	117	7.781	7.778	(0.956)	787242	100.000	101.387(M)	MP
104	1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	3611390	100.000	108.410	
105	sec-Butylbenzene	105	7.897	7.900	(0.970)	4231470	100.000	108.348	
106	p-Isopropyltoluene	134	8.007	8.007	(0.983)	1047957	100.000	111.091	
107	1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	2216783	100.000	107.084	
* 108	1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	472965	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	8.158	8.158	(1.002)	2215116	100.000	104.386	
110	Benzyl Chloride	126	8.349	8.349	(1.025)	518251	100.000	100.473	
111	n-Butylbenzene	134	8.355	8.355	(1.026)	942432	100.000	107.947	
112	Hexachloroethane	117	8.494	8.497	(1.043)	757185	100.000	101.670	
113	1,2-Dichlorobenzene	146	8.508	8.505	(1.045)	2130300	100.000	106.005	
114	1,2-Dibromo-3-chloropropane	75	9.171	9.171	(1.126)	297744	100.000	111.101	
115	Nitrobenzene	77	9.640	9.643	(1.184)	1236974	1000.00	998.519(A)	
116	Hexachlorobutadiene	225	9.718	9.718	(1.193)	700054	100.000	101.267	
M 120	1,3-Dichloropropene, Total	75				2932569	200.000	199.190	
117	1,2,4-Trichlorobenzene	180	9.744	9.747	(1.197)	1510861	100.000	108.657	
M 121	Total Xylenes	106				4802536	300.000	327.796	
118	Naphthalene	128	10.014	10.014	(1.230)	3980034	100.000	101.826	
119	1,2,3-Trichlorobenzene	180	10.164	10.167	(1.248)	1524703	100.000	110.812	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

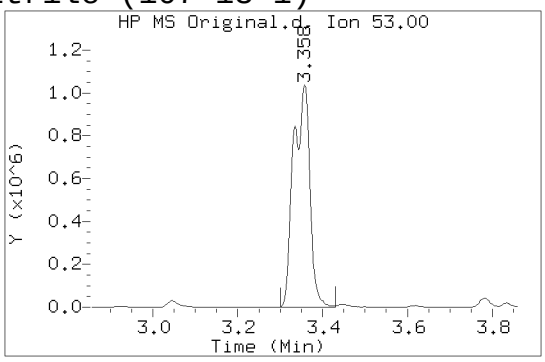

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Y (x10^7)
Min
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-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
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-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
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-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
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-Chlorodibromomethane
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-4-Bromofluorobenzene
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Bromobenzene+
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-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
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-p-Isopropyltoluene
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-1,4-Dichlorobenzene-d4+
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-Hexachloroethane+
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1,2,4-Trichlorobenzene
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Page 1

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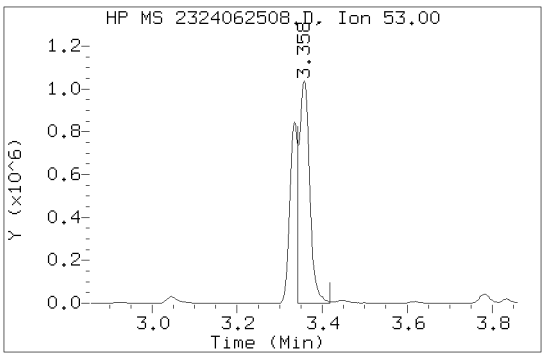
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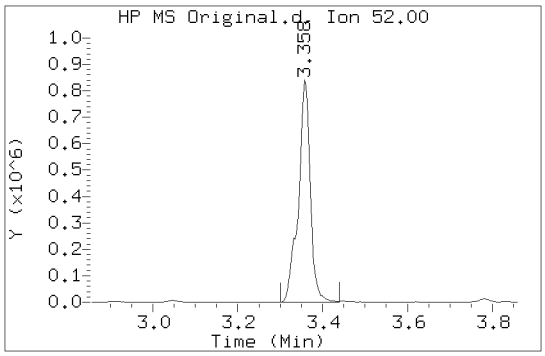
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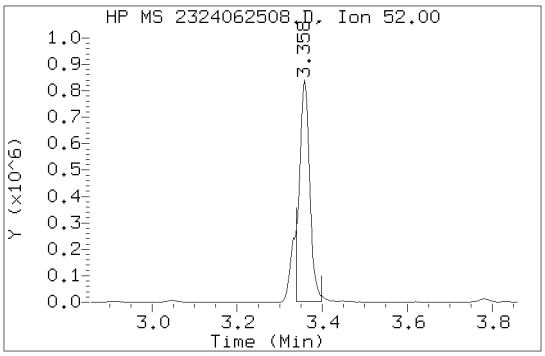
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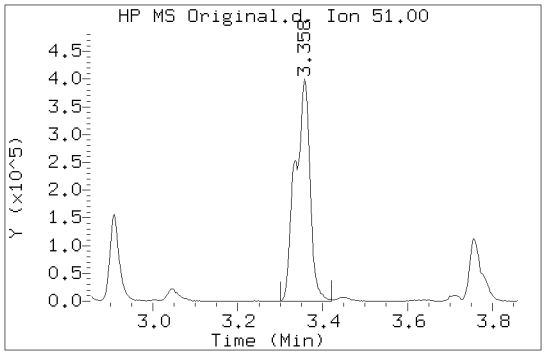
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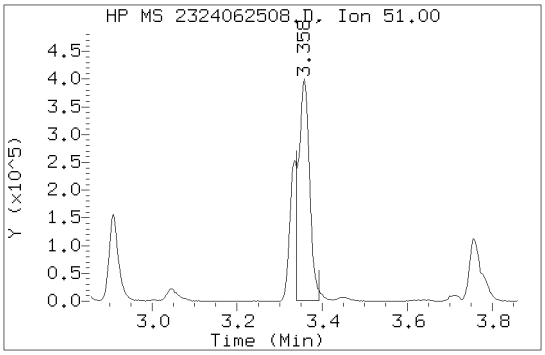
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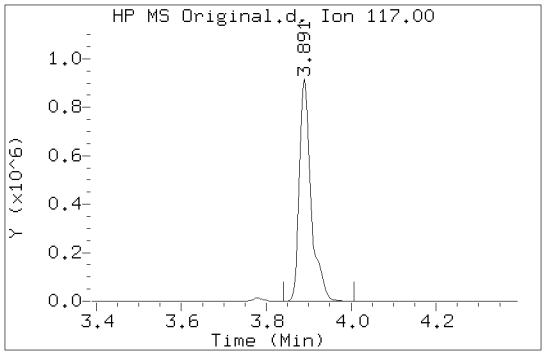
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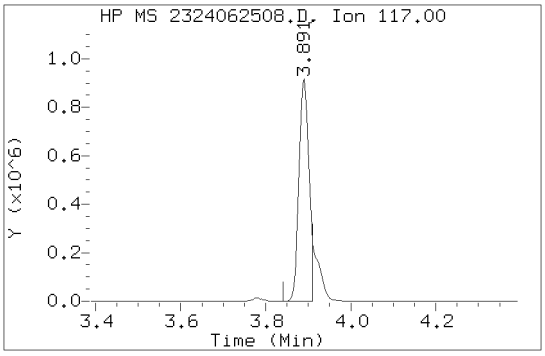
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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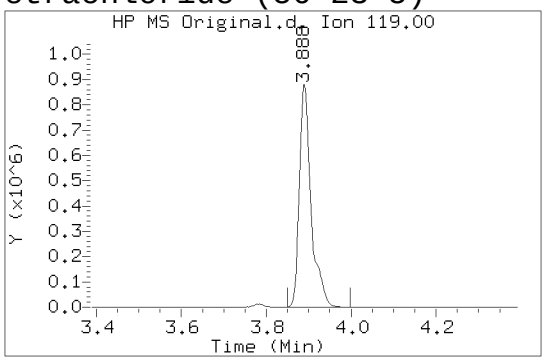


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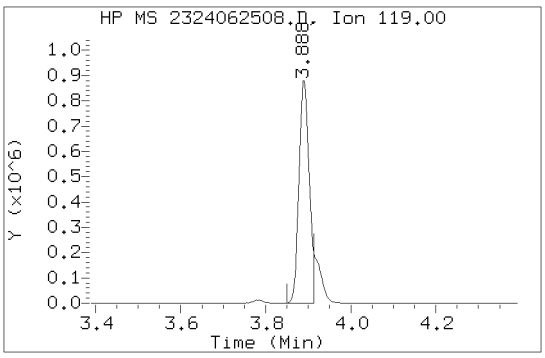
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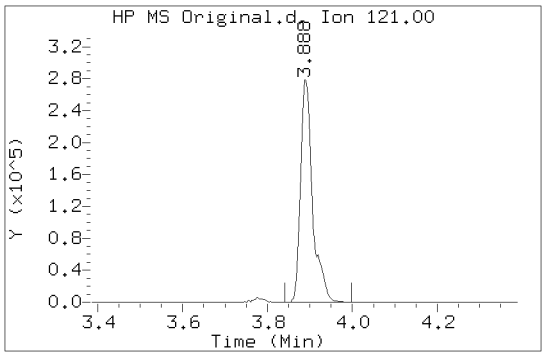
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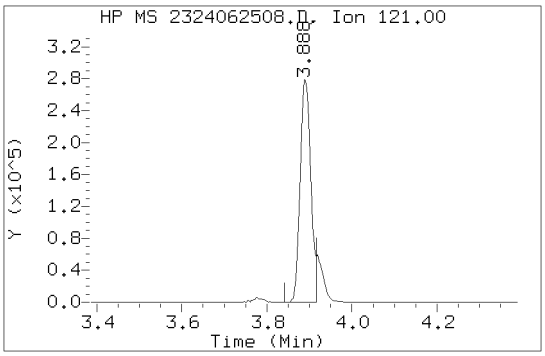
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BEFORE
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HEIGHT
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25-Jun-2024
19:38



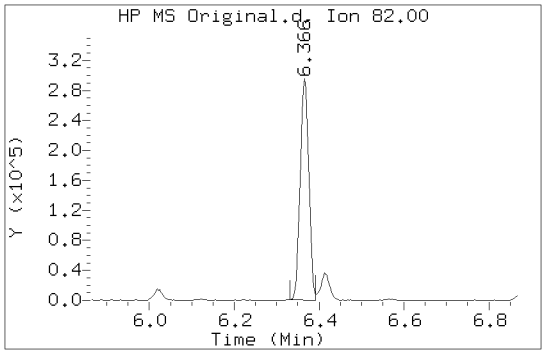
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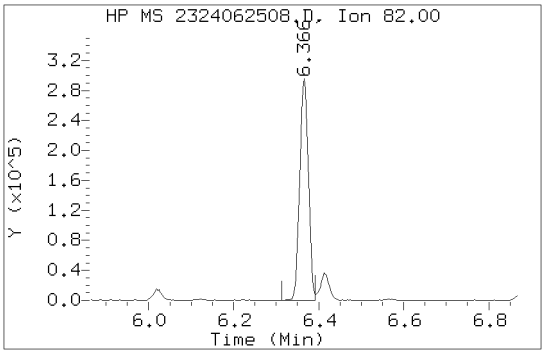
Chlorobenzene-d5 (3114-55-4)

Reason Code: I

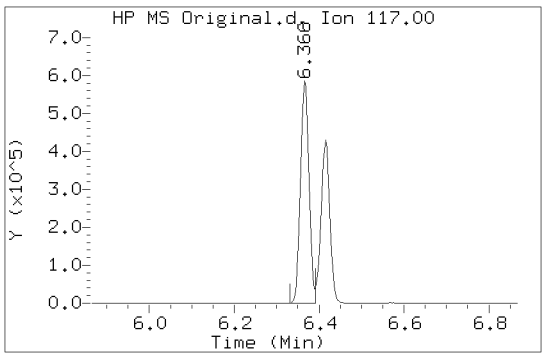
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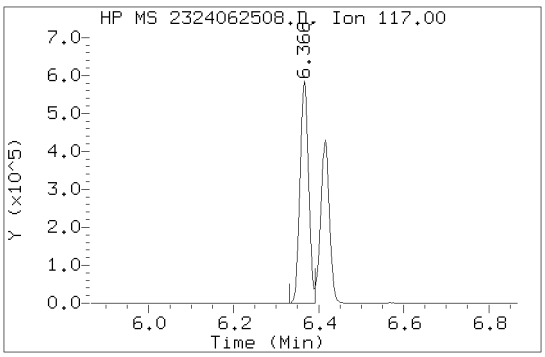
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BEFORE
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19:38



AFTER
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HEIGHT
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27-Jun-2024
16:16



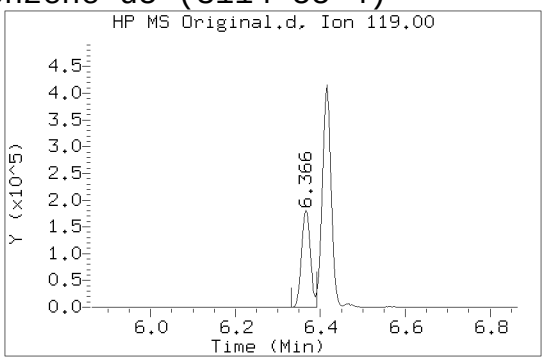
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Chlorobenzene-d5 (3114-55-4)

Reason Code: I

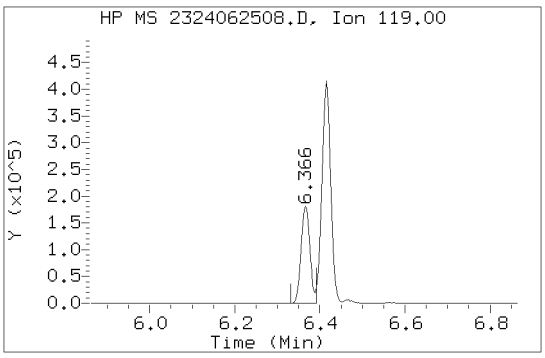
BEFORE

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19:38



AFTER

MASS
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AREA
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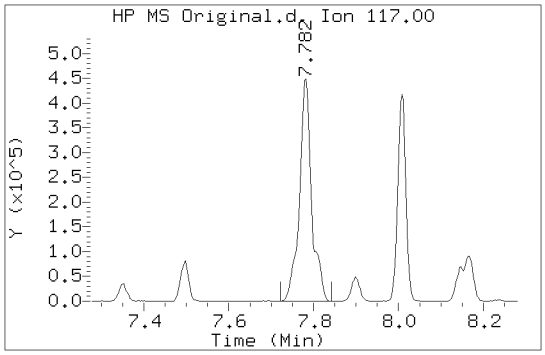


Pentachloroethane (76-01-7)

Reason Code: MP

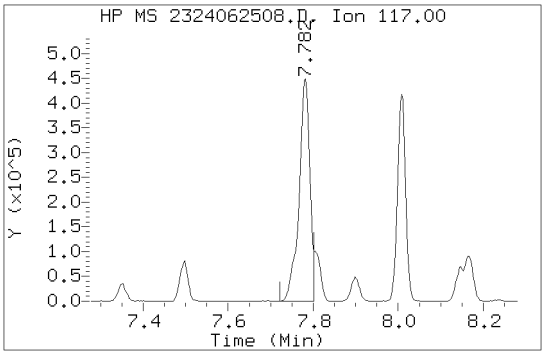
BEFORE

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25-Jun-2024
19:38



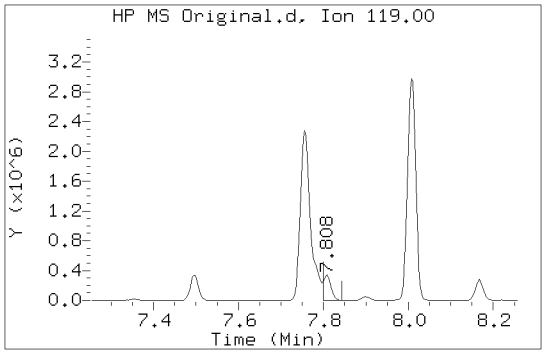
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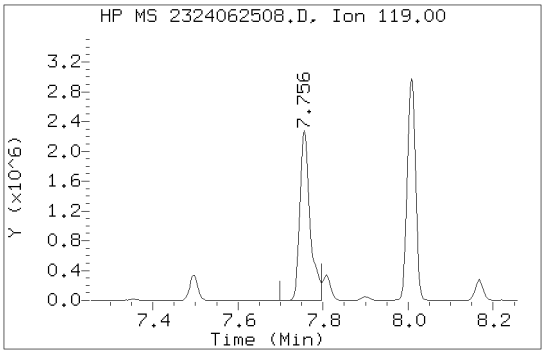
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25-Jun-2024
19:38



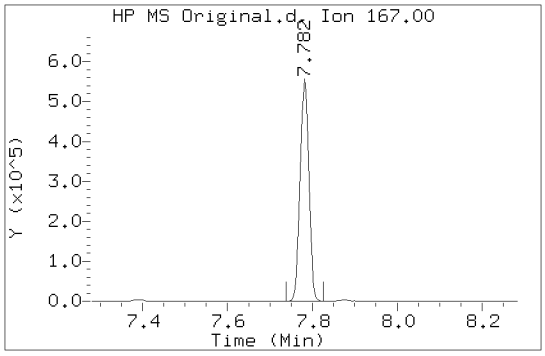
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16:16



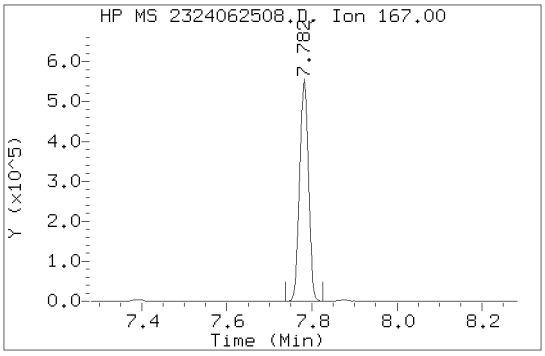
BEFORE

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25-Jun-2024
19:38



AFTER

MASS
167
AREA
789876
HEIGHT
556800
27-Jun-2024
16:16



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:16
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/2324062508
Inj Date: 25-JUN-2024 13:20
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062509.D Page 1
Report Date: 27-Jun-2024 16:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062509.D
Lab Smp Id: 1239
Inj Date : 25-JUN-2024 13:39
Operator : ILY Inst ID: ms23.i
Smp Info : 1239;;1;1;6;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 13:39 Cal File: 2324062509.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.629	1.632	(0.374)	2706018	200.000	204.925(A)	
2	Chloromethane	50	1.785	1.785	(0.410)	1579539	200.000	195.786	
3	Vinyl Chloride	62	1.849	1.849	(0.424)	1697556	200.000	213.597(A)	
4	Bromomethane	94	2.072	2.072	(0.476)	1219692	200.000	202.782(A)	
5	Chloroethane	64	2.138	2.144	(0.491)	930349	200.000	212.746(A)	
6	Pentane	41	2.234	2.245	(0.513)	1045339	200.000	195.509	
7	Trichlorofluoromethane	101	2.242	2.248	(0.515)	3448808	200.000	203.830(A)	
8	Dichlorofluoromethane	67	2.274	2.277	(0.522)	3128788	200.000	219.055(A)	
9	Ethyl Ether	74	2.439	2.442	(0.560)	970148	200.000	217.559(A)	
10	1,1-Dichloroethene	61	2.575	2.578	(0.591)	2171228	200.000	215.252(A)	
11	Freon 113	101	2.590	2.590	(0.595)	1475966	200.000	215.112(A)	
12	Carbon Disulfide	76	2.616	2.619	(0.601)	4301442	200.000	219.848(A)	
13	Iodomethane	127	2.677	2.677	(0.615)	956597	200.000	180.941	
14	Acrolein	56	2.761	2.761	(0.634)	1387432	1000.00	1093.90(A)	
15	Isopropyl Alcohol	45	2.833	2.825	(0.650)	529233	1000.00	1017.52(A)	
16	3-Chloro-1-propene	41	2.848	2.851	(0.654)	1488539	200.000	192.797	
17	Methylene Chloride	84	2.908	2.911	(0.668)	1569985	200.000	214.786(A)	
18	Acetone	58	2.920	2.920	(0.670)	719616	1000.00	1067.95(A)	
19	Methyl acetate	74	2.984	2.984	(0.685)	323377	200.000	190.632	
20	trans-1,2-Dichloroethene	61	3.001	3.004	(0.689)	2004006	200.000	216.705(A)	
21	Hexane	57	3.044	3.045	(0.699)	2641102	200.000	192.578	
22	Methyl t-Butyl Ether	73	3.047	3.050	(0.700)	5335306	200.000	216.141(A)	

Data File: 2324062509.D
Report Date: 27-Jun-2024 16:16

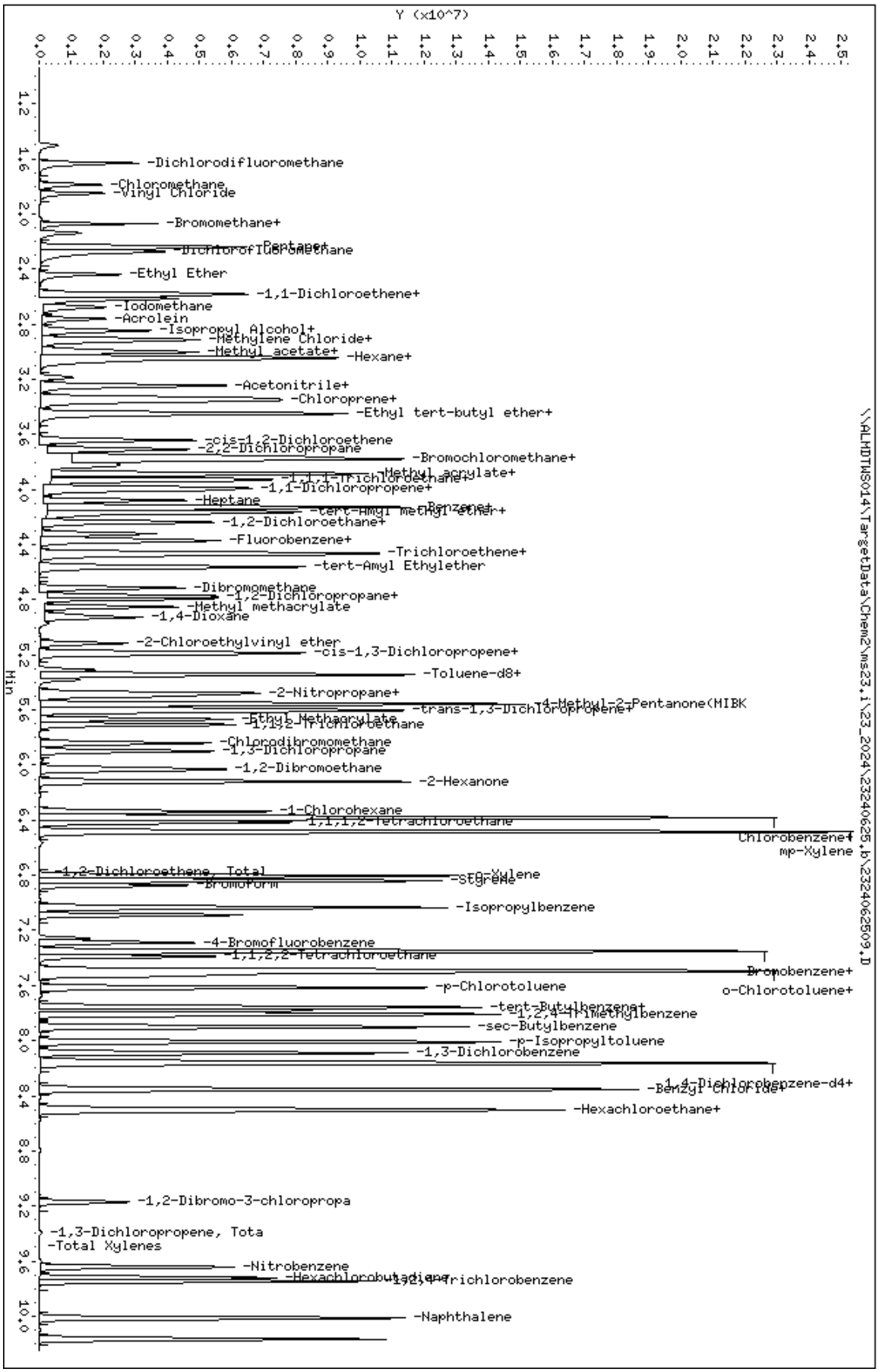
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.076	3.068	(0.706)	1148873	1000.00	1117.24(A)	
	24 Acetonitrile	41	3.186	3.184	(0.732)	843380	1000.00	1086.75(A)	
	25 Diisopropyl ether	45	3.244	3.247	(0.745)	3733381	200.000	218.653(A)	
	26 Chloroprene	53	3.334	3.334	(0.765)	2394765	200.000	200.512(A)	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	2614914	200.000	198.515	
	28 Acrylonitrile	53	3.357	3.357	(0.771)	3423071	1000.00	1000.46(AM)	MP
	29 Ethyl tert-butyl ether	59	3.447	3.450	(0.791)	4924429	200.000	199.327	
	30 n-Propanol	41	3.447	3.447	(0.791)	869443	2000.00	2175.89(A)	
	31 Vinyl Acetate	86	3.450	3.450	(0.792)	440996	200.000	200.247(A)	
	32 cis-1,2-Dichloroethene	61	3.641	3.644	(0.836)	2075432	200.000	216.911(A)	
	33 2,2-Dichloropropane	77	3.707	3.711	(0.851)	2742036	200.000	217.135(AM)	MP
	34 Bromochloromethane	128	3.757	3.757	(0.862)	954379	200.000	206.598(A)	
	35 Cyclohexane	84	3.780	3.783	(0.868)	2289166	200.000	213.315(A)	
	36 Chloroform	83	3.780	3.780	(0.868)	3359518	200.000	209.325(A)	
	37 Ethyl Acetate	43	3.815	3.815	(0.876)	1564086	200.000	221.741(A)	
	38 Methyl acrylate	55	3.832	3.832	(0.880)	1510437	200.000	200.448(A)	
	39 Carbon Tetrachloride	117	3.887	3.890	(0.892)	2915544	200.000	199.498(M)	MP
$	41 Dibromofluoromethane	113	3.884	3.884	(0.892)	267420	30.0000	30.2302	
	40 Tetrahydrofuran	42	3.881	3.881	(0.891)	2041990	1000.00	1095.41(A)	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	3185481	200.000	217.156(A)	
	43 2-Butanone	72	3.939	3.936	(0.904)	1105948	1000.00	1066.69(A)	
	44 1,1-Dichloropropene	75	3.985	3.988	(0.915)	2291741	200.000	219.477(A)	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	1413022	200.000	208.326(A)	
	46 Heptane	71	4.078	4.078	(0.936)	1003579	200.000	208.006(A)	
	47 Benzene	78	4.127	4.127	(0.947)	5841261	200.000	213.155(A)	
	48 Propionitrile	54	4.113	4.110	(0.944)	1222273	1000.00	1001.13(A)	
	49 Methacrylonitrile	67	4.127	4.127	(0.947)	739070	200.000	220.852(A)	
	50 tert-Amyl methyl ether	73	4.162	4.162	(0.955)	4957541	200.000	198.446	
	54 Isobutyl alcohol	42	4.171	4.165	(0.957)	479826	2000.00	1997.77(AQ)	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	328563	30.0000	29.0130(Q)	
	52 1,2-Dichloroethane	62	4.237	4.235	(0.973)	2731383	200.000	211.248(A)	
	53 tert-Amyl Alcohol	59	4.240	4.237	(0.973)	864291	1000.00	1127.87(A)	
*	55 Fluorobenzene	96	4.356	4.356	(1.000)	900183	30.0000		
	56 Diisobutylene	57	4.371	4.374	(1.003)	2911332	200.000	200.120(A)	
	57 Trichloroethene	95	4.457	4.458	(1.023)	1782274	200.000	212.309(A)	
	58 Methyl cyclohexane	83	4.472	4.475	(0.703)	2423839	200.000	211.467(A)	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	3663394	200.000	221.121(A)	
	60 Dibromomethane	93	4.712	4.712	(1.082)	1199052	200.000	222.123(A)	
	61 1,2-Dichloropropane	63	4.770	4.773	(1.095)	1332879	200.000	223.043(A)	
	62 Bromodichloromethane	83	4.793	4.793	(1.100)	2563392	200.000	222.705(A)	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	1438473	200.000	200.790(A)	
	64 1,4-Dioxane	88	4.906	4.906	(1.126)	656907	5000.00	5640.81(A)	
	65 2-Chloroethylvinyl ether	63	5.118	5.118	(1.175)	960807	200.000	186.407	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	2843164	200.000	200.566(A)	
	67 Octane	85	5.196	5.196	(0.816)	968753	200.000	216.126(A)	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	949064	30.0000	29.6346	
	69 Toluene	92	5.343	5.344	(0.839)	4162262	200.000	211.712(A)	
	70 Chloroacetonitrile	75	5.381	5.378	(0.845)	627456	1000.00	1011.84(A)	
	71 2-Nitropropane	41	5.477	5.474	(0.860)	3365902	1000.00	999.946(A)	
	72 1,1-Dichloro-2-Propanone	63	5.497	5.497	(0.864)	298690	1000.00	1078.20(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.558	5.555	(0.873)	7189338	1000.00	994.914(A)	
	75 trans-1,3-Dichloropropene	75	5.595	5.593	(0.879)	2913743	200.000	199.419	
	74 Tetrachloroethene	164	5.607	5.607	(0.881)	1777923	200.000	208.025(A)	
	76 Ethyl Methacrylate	69	5.668	5.665	(0.890)	2405464	200.000	200.407(A)	

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Report Date: 27-Jun-2024 16:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.708	5.705	(0.897)	1259278	200.000	215.854(A)	
	78 Chlorodibromomethane	129	5.841	5.842	(0.918)	2395175	200.000	201.197(A)	
	79 1,3-Dichloropropane	76	5.899	5.899	(0.927)	2692239	200.000	219.983(A)	
	80 1,2-Dibromoethane	107	6.021	6.021	(0.946)	1889641	200.000	221.249(A)	
	81 2-Hexanone	43	6.119	6.117	(0.961)	5340055	1000.00	1001.09(A)	
	82 1-Chlorohexane	91	6.336	6.337	(0.995)	2221207	200.000	216.423(A)	
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	401789	30.0000	(M)	MP
	84 Chlorobenzene	112	6.380	6.380	(1.002)	4871692	200.000	215.726(A)	
	85 Ethylbenzene	106	6.383	6.383	(1.003)	2548105	200.000	214.134(A)	
	86 1,1,1,2-Tetrachloroethane	131	6.415	6.415	(1.008)	2054190	200.000	221.739(A)	
	87 mp-Xylene	106	6.484	6.484	(1.019)	6205969	400.000	431.358(A)	
	88 o-Xylene	106	6.803	6.803	(1.069)	3149109	200.000	222.671(A)	
	89 Styrene	104	6.837	6.838	(0.839)	5251559	200.000	198.121	
	90 Bromoform	173	6.872	6.872	(0.844)	1872007	200.000	199.584	
	91 Isopropylbenzene	105	7.034	7.031	(0.864)	7380210	200.000	196.306	
M	100 1,2-Dichloroethene, Total	61				4079438	400.000	433.616	
$	92 4-Bromofluorobenzene	174	7.257	7.260	(0.891)	406157	30.0000	29.7273	
	93 Bromobenzene	156	7.353	7.350	(0.903)	2414683	200.000	205.830(A)	
	94 n-Propylbenzene	120	7.350	7.350	(0.902)	2284952	200.000	205.695(A)	
	95 1,1,2,2-Tetrachloroethane	83	7.387	7.388	(0.907)	2096158	200.000	216.061(A)	
	96 o-Chlorotoluene	91	7.486	7.486	(0.919)	6322148	200.000	208.679(A)	
	97 1,3,5-Trimethylbenzene	105	7.497	7.495	(0.920)	6787714	200.000	207.249(A)	
	98 1,2,3-Trichloropropane	110	7.509	7.509	(0.922)	876988	200.000	213.100(A)	
	99 trans-1,4-Dichloro-2-butene	53	7.529	7.529	(0.924)	770313	200.000	199.144(M)	MP
	101 p-Chlorotoluene	91	7.616	7.613	(0.935)	5870396	200.000	209.571(A)	
	102 tert-Butylbenzene	134	7.758	7.758	(0.952)	1711818	200.000	208.734(A)	
	103 Pentachloroethane	117	7.781	7.778	(0.955)	1527981	200.000	196.870(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.810	7.807	(0.959)	6873804	200.000	206.647(A)	
	105 sec-Butylbenzene	105	7.900	7.900	(0.970)	7960943	200.000	204.142(A)	
	106 p-Isopropyltoluene	134	8.010	8.007	(0.983)	1989960	200.000	211.259(A)	
	107 1,3-Dichlorobenzene	146	8.091	8.088	(0.993)	4300215	200.000	208.031(A)	
*	108 1,4-Dichlorobenzene-d4	152	8.146	8.143	(1.000)	472273	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	8.158	8.158	(1.001)	4322166	200.000	203.977(A)	
	110 Benzyl Chloride	126	8.352	8.349	(1.025)	1036652	200.000	200.928(AQ)	
	111 n-Butylbenzene	134	8.357	8.355	(1.026)	1784364	200.000	204.683(A)	
	112 Hexachloroethane	117	8.496	8.497	(1.043)	1477423	200.000	198.455	
	113 1,2-Dichlorobenzene	146	8.508	8.505	(1.044)	4168615	200.000	207.736(A)	
	114 1,2-Dibromo-3-chloropropane	75	9.171	9.171	(1.126)	605738	200.000	226.357(A)	
	115 Nitrobenzene	77	9.643	9.643	(1.184)	2644208	2000.00	1999.38(A)	
	116 Hexachlorobutadiene	225	9.721	9.718	(1.193)	1272827	200.000	184.391	
M	120 1,3-Dichloropropene, Total	75				5756907	400.000	399.985	
	117 1,2,4-Trichlorobenzene	180	9.747	9.747	(1.197)	2855900	200.000	205.689(A)	
M	121 Total Xylenes	106				9355078	600.000	654.028	
	118 Naphthalene	128	10.014	10.014	(1.229)	7683598	200.000	196.663	
	119 1,2,3-Trichlorobenzene	180	10.167	10.167	(1.248)	2925284	200.000	212.914(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\ALMDTMS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\23240625D9,D
Date : 25-JUN-2024 13:39
Client ID:
Sample Info: 1239;1;1;6;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

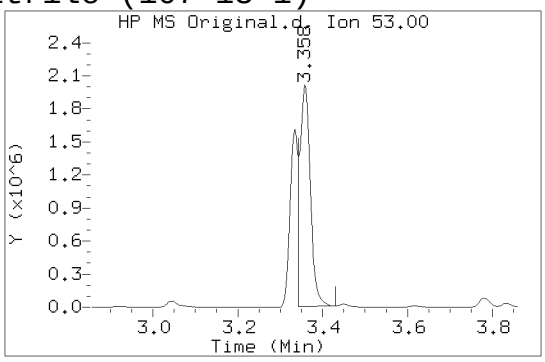
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LabSampID : 1239

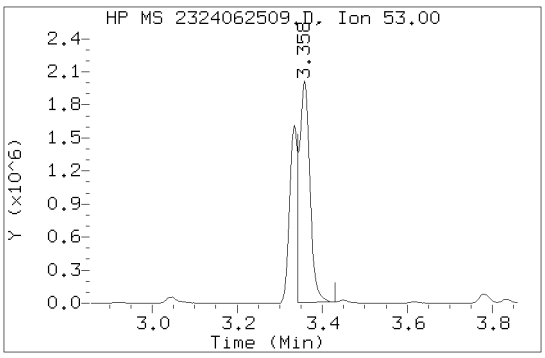
Acrylonitrile (107-13-1)

Reason Code: MP

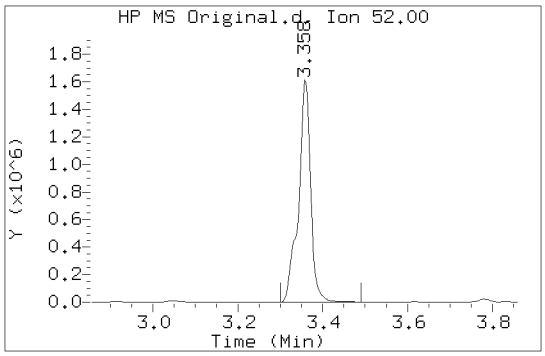
BEFORE
MASS
53
AREA
3423071
HEIGHT
2011550
25-Jun-2024
19:41



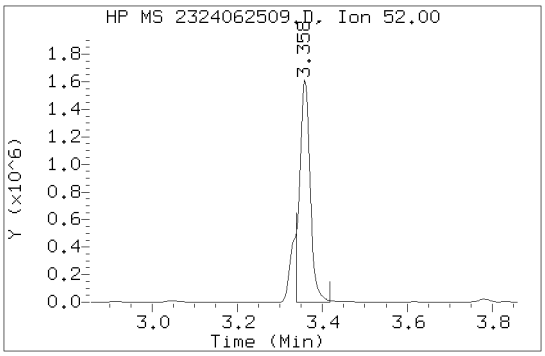
AFTER
MASS
53
AREA
3423071
HEIGHT
2011550
27-Jun-2024
16:16



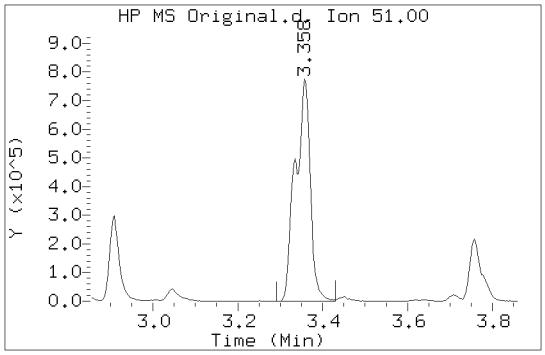
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MASS
52
AREA
3168455
HEIGHT
1612509
25-Jun-2024
19:41



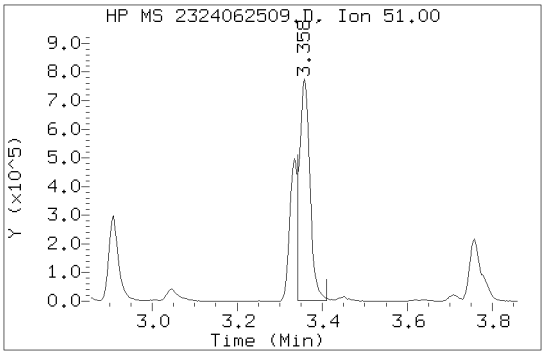
AFTER
MASS
52
AREA
2676139
HEIGHT
1612067
27-Jun-2024
16:16



BEFORE
MASS
51
AREA
1883513
HEIGHT
775577
25-Jun-2024
19:41



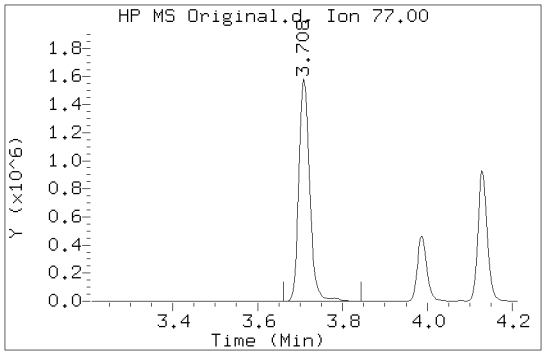
AFTER
MASS
51
AREA
1288875
HEIGHT
774310
27-Jun-2024
16:16



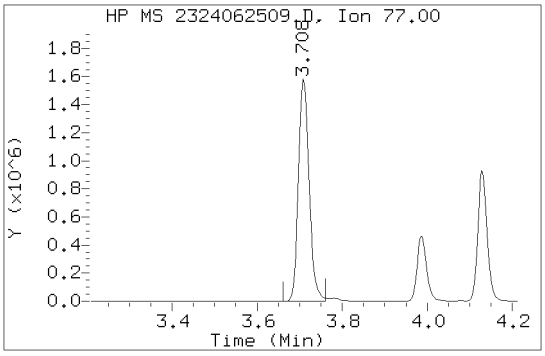
2,2-Dichloropropane (594-20-7)

Reason Code: MP

BEFORE
MASS
77
AREA
2785229
HEIGHT
1583104
25-Jun-2024
19:41



AFTER
MASS
77
AREA
2742036
HEIGHT
1583104
27-Jun-2024
16:16

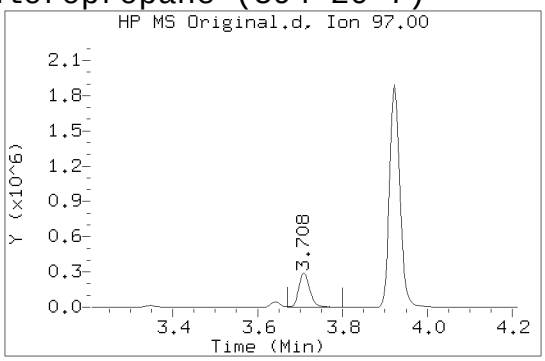


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LabSampID : 1239

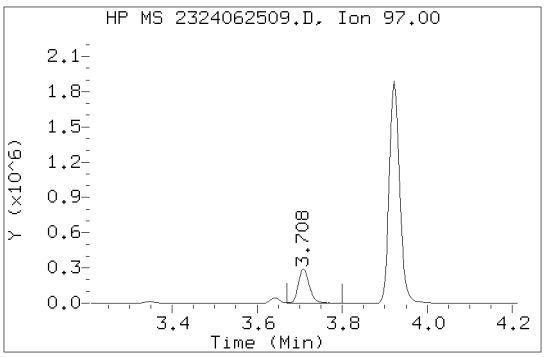
2,2-Dichloropropane (594-20-7)

Reason Code: MP

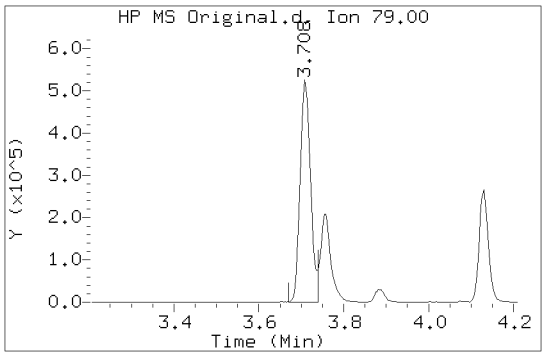
BEFORE
MASS
97
AREA
515131
HEIGHT
291776
25-Jun-2024
19:41



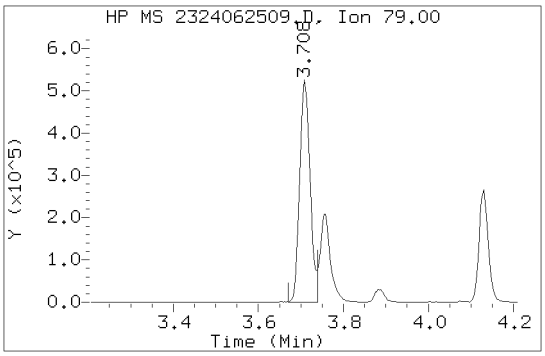
AFTER
MASS
97
AREA
515131
HEIGHT
291776
27-Jun-2024
16:16



BEFORE
MASS
79
AREA
888351
HEIGHT
525183
25-Jun-2024
19:41



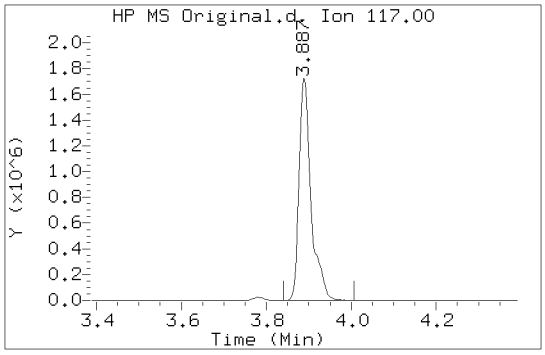
AFTER
MASS
79
AREA
888351
HEIGHT
525183
27-Jun-2024
16:16



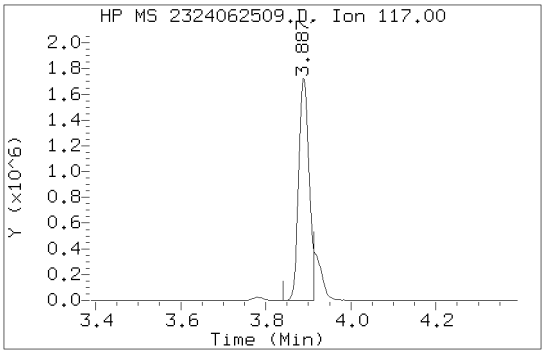
Carbon Tetrachloride (56-23-5)

Reason Code: MP

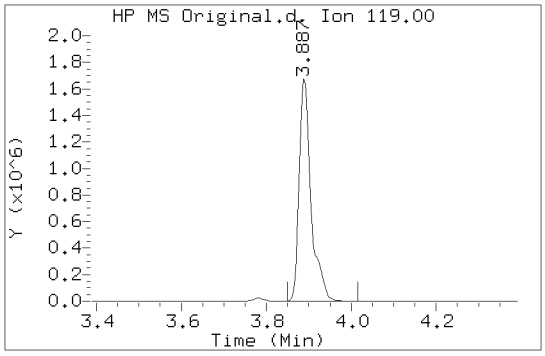
BEFORE
MASS
117
AREA
3339892
HEIGHT
1721344
25-Jun-2024
19:41



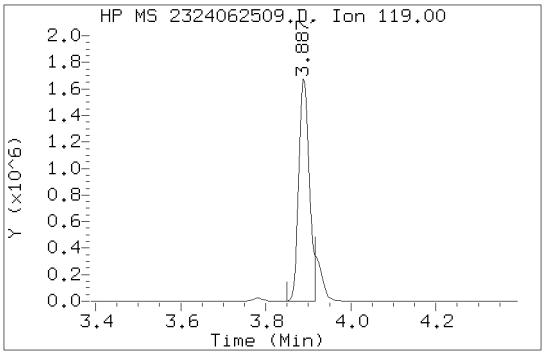
AFTER
MASS
117
AREA
2915544
HEIGHT
1721344
27-Jun-2024
16:16



BEFORE
MASS
119
AREA
3224570
HEIGHT
1675040
25-Jun-2024
19:41



AFTER
MASS
119
AREA
2877867
HEIGHT
1675040
27-Jun-2024
16:16



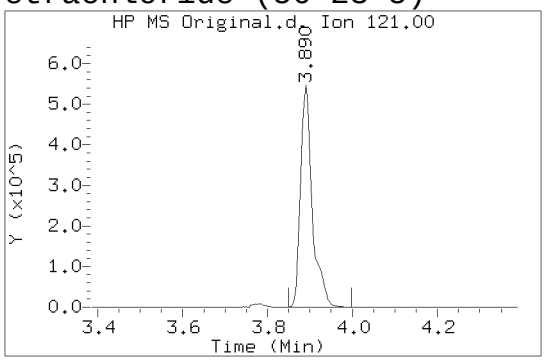
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Inj Date : 25-JUN-2024 13:39
InstruID : ms23.i
LabSampID : 1239

Carbon Tetrachloride (56-23-5)

Reason Code: MP

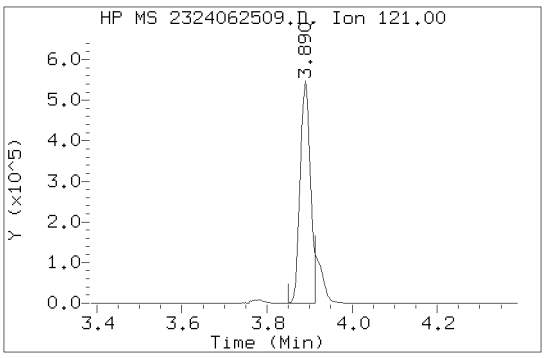
BEFORE

MASS
121
AREA
1040930
HEIGHT
547520
25-Jun-2024
19:41



AFTER

MASS
121
AREA
909559
HEIGHT
547520
27-Jun-2024
16:16

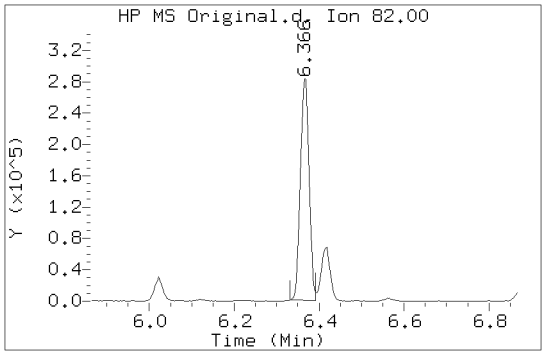


Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

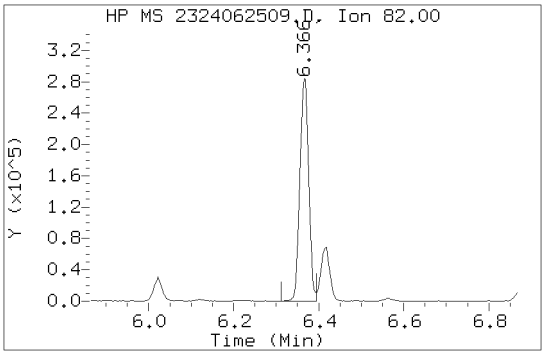
BEFORE

MASS
82
AREA
394411
HEIGHT
282367
25-Jun-2024
19:41



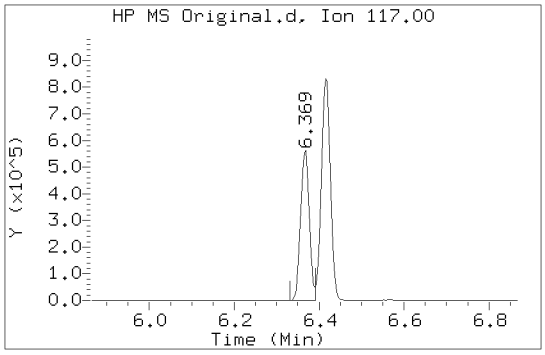
AFTER

MASS
82
AREA
401789
HEIGHT
283648
27-Jun-2024
16:16



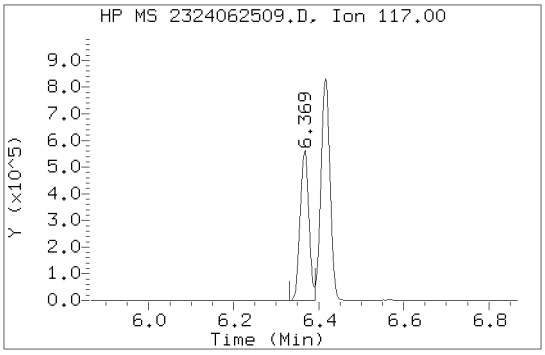
BEFORE

MASS
117
AREA
789716
HEIGHT
563395
25-Jun-2024
19:41



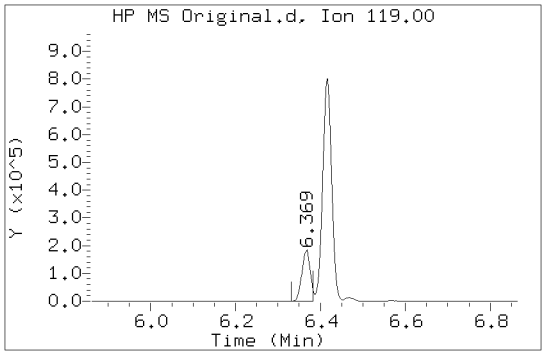
AFTER

MASS
117
AREA
789716
HEIGHT
563395
27-Jun-2024
16:16



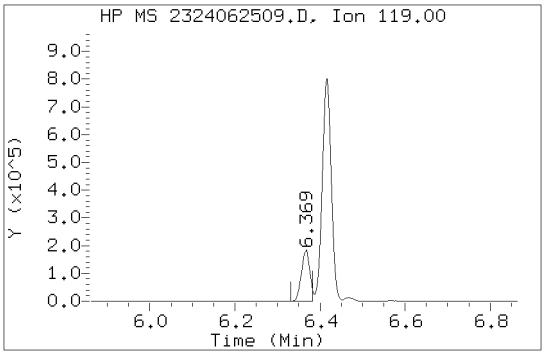
BEFORE

MASS
119
AREA
245694
HEIGHT
184384
25-Jun-2024
19:41



AFTER

MASS
119
AREA
245694
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27-Jun-2024
16:16

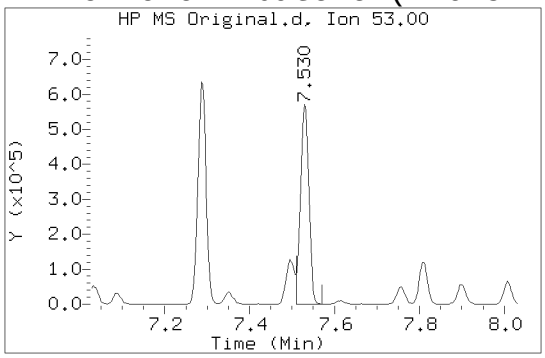


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LabSampID : 1239

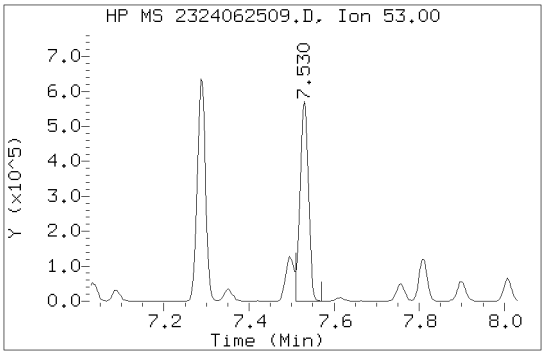
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

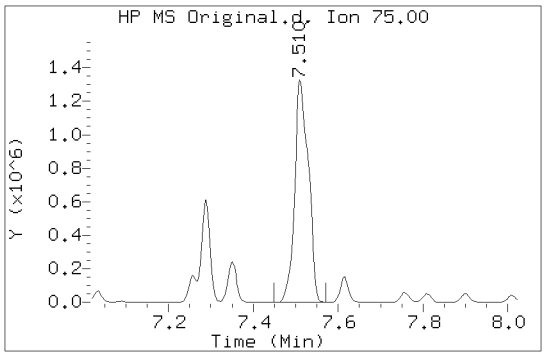
BEFORE
MASS
53
AREA
770313
HEIGHT
572106
25-Jun-2024
19:41



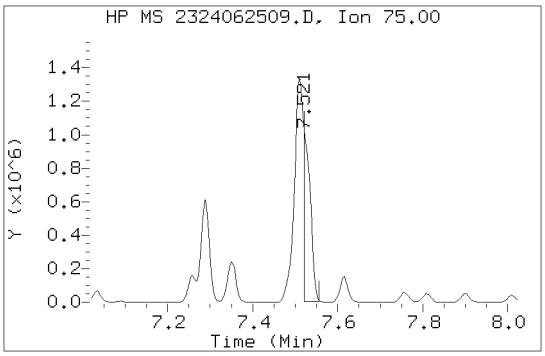
AFTER
MASS
53
AREA
770313
HEIGHT
572106
27-Jun-2024
16:16



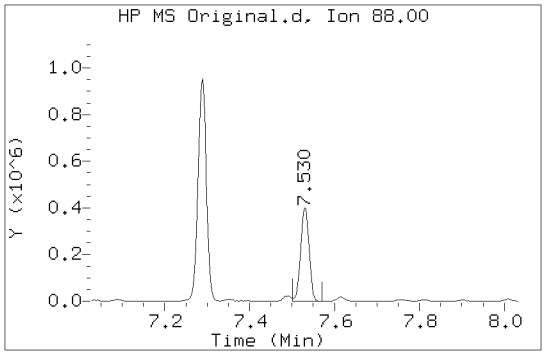
BEFORE
MASS
75
AREA
2976507
HEIGHT
1327385
25-Jun-2024
19:41



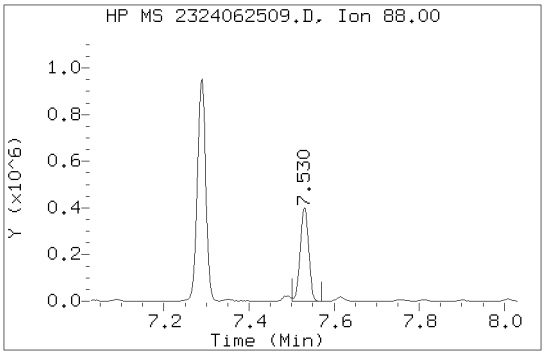
AFTER
MASS
75
AREA
1092435
HEIGHT
1023622
27-Jun-2024
16:16



BEFORE
MASS
88
AREA
538937
HEIGHT
398476
25-Jun-2024
19:41



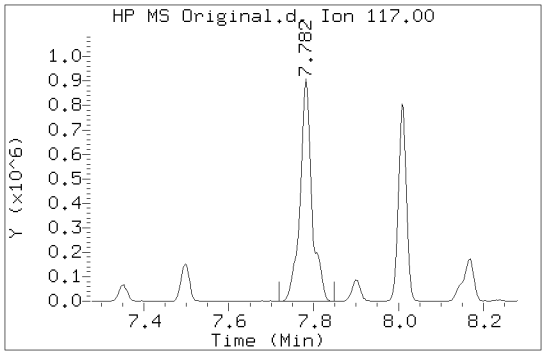
AFTER
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88
AREA
538937
HEIGHT
398476
27-Jun-2024
16:16



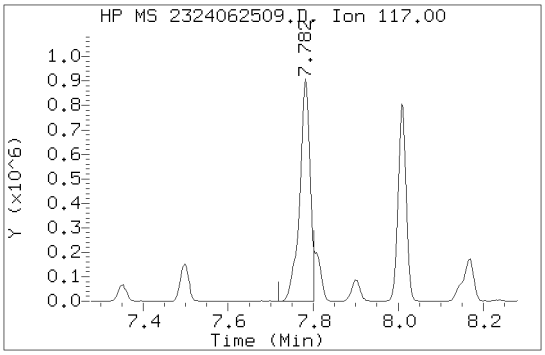
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
1725161
HEIGHT
908329
25-Jun-2024
19:41



AFTER
MASS
117
AREA
1527981
HEIGHT
908329
27-Jun-2024
16:16



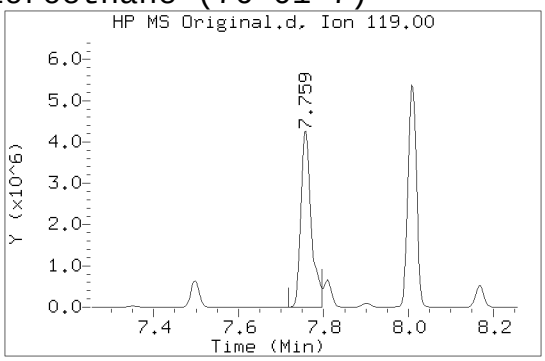
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Inj Date : 25-JUN-2024 13:39
InstruID : ms23.i
LabSampID : 1239

Pentachloroethane (76-01-7)

Reason Code: MP

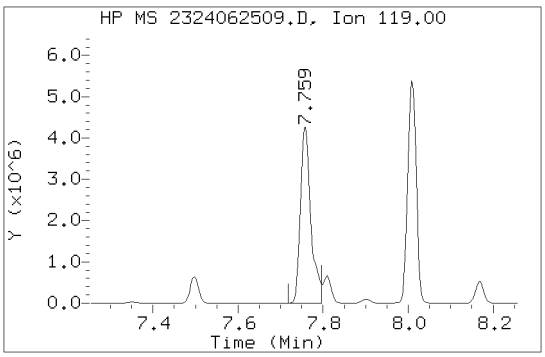
BEFORE

MASS
119
AREA
7216423
HEIGHT
4261536
25-Jun-2024
19:41



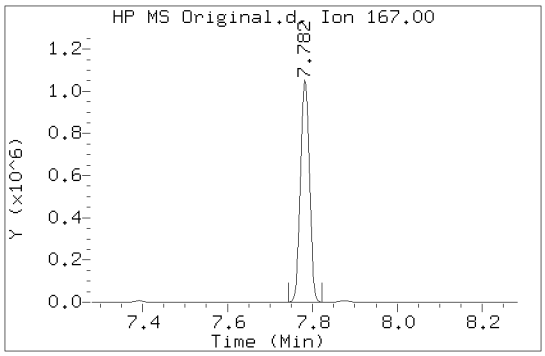
AFTER

MASS
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AREA
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HEIGHT
4261536
27-Jun-2024
16:16



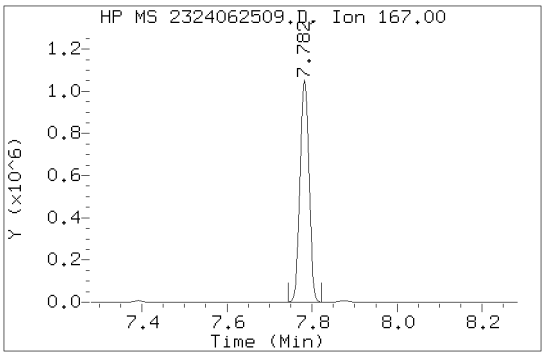
BEFORE

MASS
167
AREA
1530674
HEIGHT
1053350
25-Jun-2024
19:41



AFTER

MASS
167
AREA
1530674
HEIGHT
1053350
27-Jun-2024
16:16



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:16
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406250
Inj Date: 25-JUN-2024 13:39
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062515ICVQ.D Page 1
Report Date: 27-Jun-2024 16:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062515ICV
Lab Smp Id: ICVQ
Inj Date : 25-JUN-2024 15:39
Operator : ILY Inst ID: ms23.i
Smp Info : ICVQ;;1;3;;ICVQ;1;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.628	1.632	(0.374)	266351	19.9511	19.9511	
2 Chloromethane	50	1.785	1.785	(0.410)	149450	18.3230	18.3230	
3 Vinyl Chloride	62	1.848	1.849	(0.425)	159738	19.8806	19.8806	
4 Bromomethane	94	2.068	2.072	(0.475)	106467	17.5201	17.5201	
5 Chloroethane	64	2.135	2.144	(0.491)	89810	20.3137	20.3137	
6 Pentane	41	2.234	2.245	(0.513)	92269	17.0693	17.0693	
7 Trichlorofluoromethane	101	2.239	2.248	(0.514)	330165	19.3009	19.3009	
8 Dichlorofluoromethane	67	2.271	2.277	(0.522)	316856	21.9426	21.9426	
9 Ethyl Ether	74	2.442	2.442	(0.561)	101412	22.4946	22.4946	
10 1,1-Dichloroethene	61	2.575	2.578	(0.592)	224546	22.0189	22.0189	
12 Carbon Disulfide	76	2.616	2.619	(0.601)	420176	21.2417	21.2417	
11 Freon 113	101	2.590	2.590	(0.595)	150507	21.6967	21.6967	
13 Iodomethane	127	2.674	2.677	(0.614)	64550	16.9223	16.9223	
14 Acrolein	56	2.760	2.761	(0.634)	216461	168.809	168.809	
16 3-Chloro-1-propene	41	2.847	2.851	(0.654)	166689	21.5237	21.5237	
15 Isopropyl Alcohol	45	2.830	2.825	(0.650)	54057	100.965	100.965	
17 Methylene Chloride	84	2.905	2.911	(0.667)	166554	22.5379	22.5379	
18 Acetone	58	2.923	2.920	(0.671)	79254	116.338	116.338	
19 Methyl acetate	74	2.981	2.984	(0.685)	35372	20.6250	20.6250	
20 trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	200711	21.4680	21.4680	
21 Hexane	57	3.044	3.045	(0.699)	269931	19.4681	19.4681	

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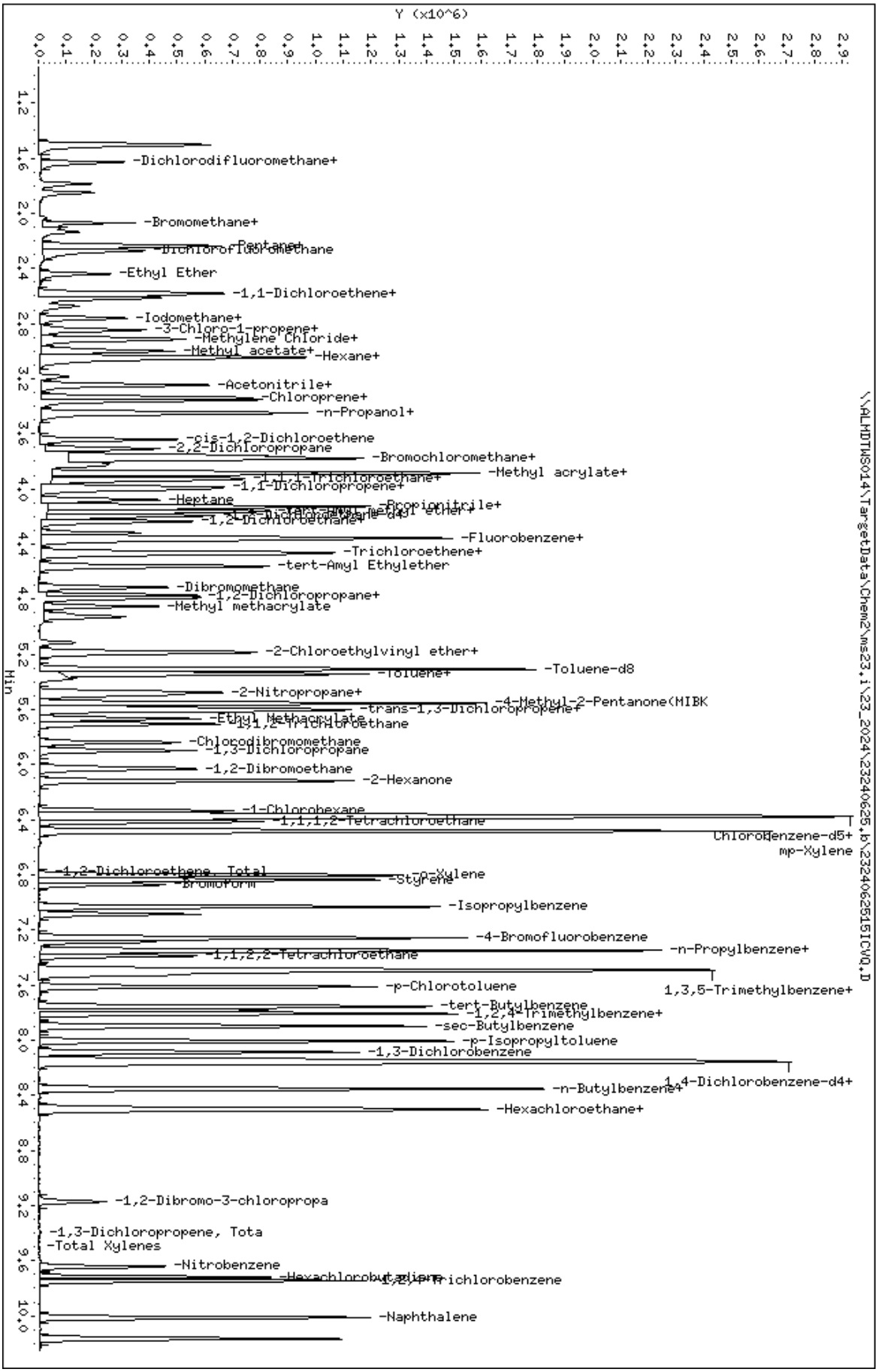
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	3.047	3.050	(0.700)	574625	23.0257	23.0257	
	23 tert.- Butyl Alcohol	59	3.073	3.068	(0.706)	114289	109.933	109.933	
	24 Acetonitrile	41	3.183	3.184	(0.731)	88319	112.567	112.567	
	25 Diisopropyl ether	45	3.244	3.247	(0.745)	387644	22.4562	22.4562	
	26 Chloroprene	53	3.334	3.334	(0.766)	191203	16.0604	16.0604	
	27 1,1-Dichloroethane	63	3.342	3.346	(0.768)	265685	20.1319	20.1319	
	28 Acrylonitrile	53	3.357	3.357	(0.771)	332532	97.2317	97.2317(M)	MP
	30 n-Propanol	41	3.447	3.447	(0.792)	93362	231.108	231.108	
	29 Ethyl tert-butyl ether	59	3.450	3.450	(0.792)	525064	21.2168	21.2168	
	31 Vinyl acetate	86	3.447	3.450	(0.792)	42463	19.3510	19.3510	
	32 cis-1,2-Dichloroethene	61	3.644	3.644	(0.837)	211734	21.8883	21.8883	
	33 2,2-Dichloropropane	77	3.710	3.711	(0.852)	251918	19.7317	19.7317	
M	100 1,2-Dichloroethene, Total	61				412445	43.3563	43.3563	
	34 Bromochloromethane	128	3.754	3.757	(0.862)	105048	22.4928	22.4928	
	35 Cyclohexane	84	3.783	3.783	(0.869)	236258	21.7760	21.7760	
	36 Chloroform	83	3.777	3.780	(0.868)	351683	21.6743	21.6743	
	37 Ethyl acetate	43	3.817	3.815	(0.877)	155085	21.7472	21.7472	
	38 Methyl acrylate	55	3.835	3.832	(0.881)	156121	20.7350	20.7350	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.894)	283282	19.3797	19.3797(M)	MP
	40 Tetrahydrofuran	42	3.884	3.881	(0.892)	209327	111.070	111.070	
$	41 Dibromofluoromethane	113	3.884	3.884	(0.892)	273805	30.6153	30.6153	
	42 1,1,1-Trichloroethane	97	3.919	3.922	(0.900)	327426	22.0780	22.0780	
	43 2-Butanone	72	3.939	3.936	(0.905)	115554	110.240	110.240	
	44 1,1-Dichloropropene	75	3.988	3.988	(0.916)	226126	21.4202	21.4202	
	45 1-Chlorobutane	41	4.008	4.006	(0.921)	143614	20.9430	20.9430	
	46 Heptane	71	4.078	4.078	(0.937)	93988	19.2685	19.2685	
	48 Propionitrile	54	4.110	4.110	(0.944)	121415	99.5082	99.5082	
	47 Benzene	78	4.127	4.127	(0.948)	603469	21.7818	21.7818	
	49 Methacrylonitrile	67	4.130	4.127	(0.949)	76067	22.4834	22.4834	
	50 tert-amyl methyl Ether	73	4.162	4.162	(0.956)	533911	21.3338	21.3338	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.964)	343875	30.0347	30.0347(M)	MP
	54 Isobutyl alcohol	42	4.165	4.165	(0.957)	34338	172.443	172.443(QM)	I
	52 1,2-Dichloroethane	62	4.234	4.235	(0.973)	286958	21.9522	21.9522	
	53 tert-Amyl Alcohol	59	4.243	4.237	(0.975)	82060	105.921	105.921	
*	55 Fluorobenzene	96	4.353	4.356	(1.000)	910084	30.0000		
	56 Diisobutylene	57	4.370	4.374	(1.004)	311093	19.6171	19.6171	
	57 Trichloroethene	95	4.460	4.458	(1.025)	177744	20.9430	20.9430	
	58 Methyl cyclohexane	83	4.475	4.475	(0.703)	247796	21.6072	21.6072	
	59 tert-Amyl Ethylether	59	4.561	4.562	(1.048)	360559	21.5264	21.5264	
	60 Dibromomethane	93	4.715	4.712	(1.083)	121145	22.1978	22.1978	
	61 1,2-Dichloropropane	63	4.773	4.773	(1.096)	136097	22.5267	22.5267	
	62 Bromodichloromethane	83	4.796	4.793	(1.102)	265568	22.8213	22.8213	
	63 Methyl methacrylate	41	4.854	4.851	(1.115)	144052	20.1084	20.1084	
	65 2-Chloroethylvinyl ether	63	5.117	5.118	(1.176)	43906	16.0053	16.0053	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	282169	20.1588	20.1588	
	67 Octane	85	5.195	5.196	(0.816)	89141	19.8764	19.8764	
$	68 Toluene-d8	98	5.308	5.309	(0.834)	992584	30.9768	30.9768	
	69 Toluene	92	5.340	5.344	(0.839)	421160	21.4106	21.4106	
	70 Chloroacetonitrile	75	5.378	5.378	(0.845)	59591	97.9305	97.9305	
	71 2-Nitropropane	41	5.473	5.474	(0.860)	321413	96.8655	96.8655	
	72 1,1-Dichloro-2-propanone	63	5.499	5.497	(0.864)	30289	109.277	109.277(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.554	5.555	(0.873)	757078	105.758	105.758	
	75 trans-1,3-Dichloropropene	75	5.592	5.593	(0.879)	299332	20.6803	20.6803	
	74 Tetrachloroethene	164	5.607	5.607	(0.881)	184335	21.5564	21.5564	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.664	5.665	(0.890)	243642	20.5552	20.5552	
	77 1,1,2-Trichloroethane	83	5.705	5.705	(0.896)	134209	22.9924	22.9924	
	78 Chlorodibromomethane	129	5.838	5.842	(0.917)	233248	19.8218	19.8218	
	79 1,3-Dichloropropane	76	5.899	5.899	(0.927)	276835	22.6080	22.6080	
	80 1,2-Dibromoethane	107	6.018	6.021	(0.945)	192668	22.5464	22.5464	
	81 2-Hexanone	43	6.119	6.117	(0.961)	536538	101.749	101.749	
	82 1-Chlorohexane	91	6.336	6.337	(0.995)	224833	21.8947	21.8947	
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	402006	30.0000		
	85 Ethylbenzene	106	6.380	6.383	(1.002)	262208	22.0231	22.0231	
	84 Chlorobenzene	112	6.377	6.380	(1.002)	502266	22.2291	22.2291	
	86 1,1,1,2-Tetrachloroethane	131	6.414	6.415	(1.008)	211965	22.8682	22.8682	
	87 mp-Xylene	106	6.484	6.484	(1.019)	636150	44.1929	44.1929	
M	120 1,3-Dichloropropene, Total	75				581501	40.8391	40.8391	
	88 o-Xylene	106	6.799	6.803	(1.068)	318237	22.4901	22.4901	
	89 Styrene	104	6.837	6.838	(0.840)	539274	21.6392	21.6392	
	90 Bromoform	173	6.872	6.872	(0.844)	181627	20.6701	20.6701	
	91 Isopropylbenzene	105	7.031	7.031	(0.863)	823058	23.1854	23.1854	
$	92 4-Bromofluorobenzene	174	7.257	7.260	(0.891)	401837	31.0026	31.0026	
M	121 TOTAL XYLENES	106				954387	66.6830	66.6830	
	94 n-Propylbenzene	120	7.350	7.350	(0.903)	222416	21.1057	21.1057	
	93 Bromobenzene	156	7.350	7.350	(0.903)	246864	22.1816	22.1816	
	95 1,1,2,2-Tetrachloroethane	83	7.387	7.388	(0.907)	214871	23.3463	23.3463	
	97 1,3,5-Trimethylbenzene	105	7.494	7.495	(0.920)	710138	22.8559	22.8559	
	96 o-Chlorotoluene	91	7.486	7.486	(0.919)	648178	22.5525	22.5525	
	98 1,2,3-Trichloropropane	110	7.509	7.509	(0.922)	89819	23.0062	23.0062	
	99 trans-1,4-Dichloro-2-butene	53	7.526	7.529	(0.924)	71387	19.7559	19.7559(Q)	
	101 p-Chlorotoluene	91	7.613	7.613	(0.935)	590118	22.2070	22.2070	
	102 tert-Butylbenzene	134	7.758	7.758	(0.953)	175819	22.5990	22.5990	
	103 Pentachloroethane	117	7.781	7.778	(0.956)	142487	19.5462	19.5462(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	712863	22.5905	22.5905	
	105 sec-Butylbenzene	105	7.897	7.900	(0.970)	827873	22.3778	22.3778	
	106 p-Isopropyltoluene	134	8.007	8.007	(0.983)	199898	22.3700	22.3700	
	107 1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	429538	21.9042	21.9042	
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	448029	30.0000		
	109 1,4-Dichlorobenzene	146	8.157	8.158	(1.002)	442980	22.0369	22.0369	
	111 n-Butylbenzene	134	8.354	8.355	(1.026)	177133	21.4183	21.4183(Q)	
	110 Benzyl Chloride	126	8.348	8.349	(1.025)	83806	17.4349	17.4349(Q)	
	112 Hexachloroethane	117	8.493	8.497	(1.043)	140322	20.0709	20.0709	
	113 1,2-Dichlorobenzene	146	8.508	8.505	(1.045)	417851	21.9497	21.9497	
	114 1,2-Dibromo-3-chloropropane	75	9.171	9.171	(1.126)	53725	21.1628	21.1628	
	115 Nitrobenzene	77	9.643	9.643	(1.184)	191247	187.387	187.387	
	116 Hexachlorobutadiene	225	9.718	9.718	(1.193)	141218	21.5650	21.5650	
	117 1,2,4-Trichlorobenzene	180	9.747	9.747	(1.197)	315751	23.9718	23.9718	
	118 Naphthalene	128	10.013	10.014	(1.230)	796139	21.6751	21.6751	
	119 1,2,3-Trichlorobenzene	180	10.167	10.167	(1.249)	291675	22.3781	22.3781	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

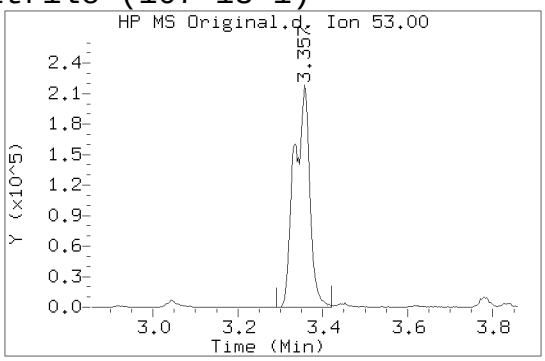

Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Pentane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane+
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
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-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
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Chlorobenzene-d5+
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-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
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1,3,5-Trimethylbenzene+
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-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
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-p-Isopropyltoluene
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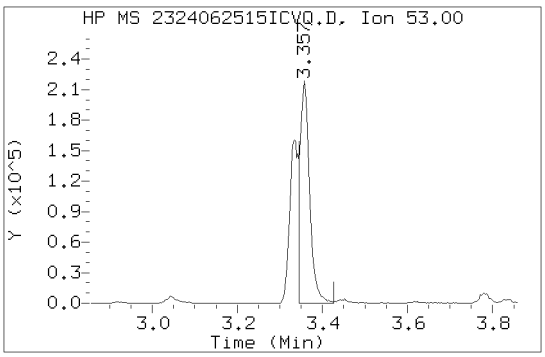
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Reason Code: MP

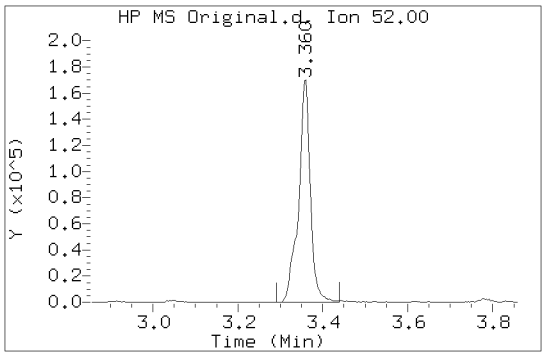
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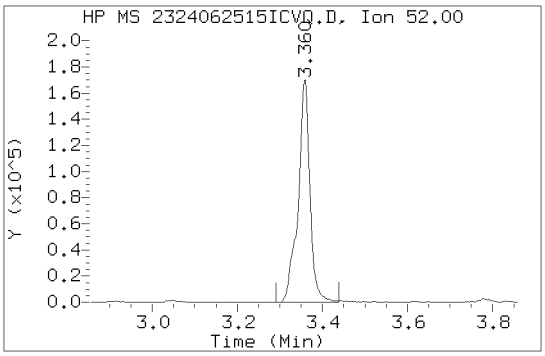
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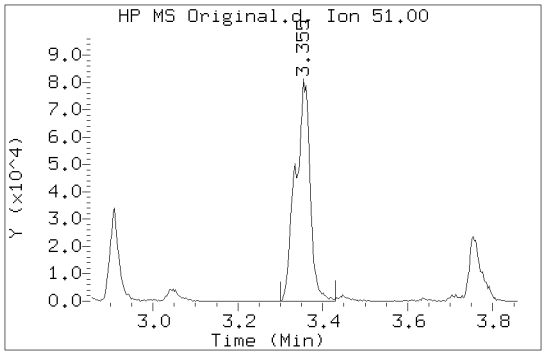
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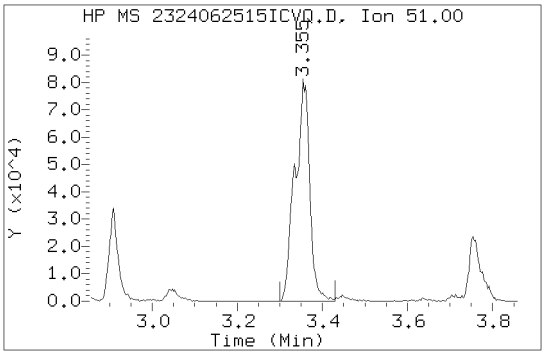
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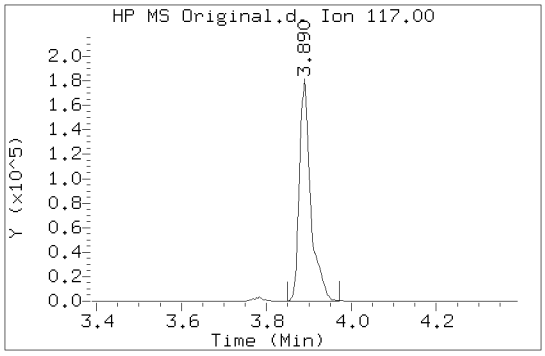
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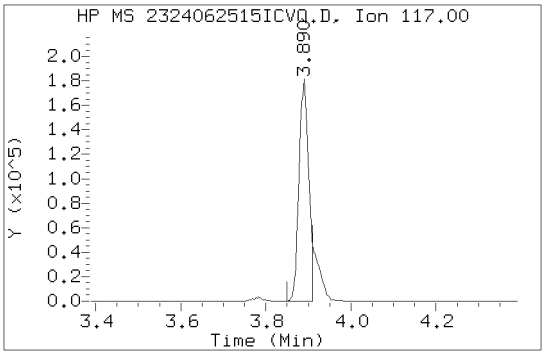
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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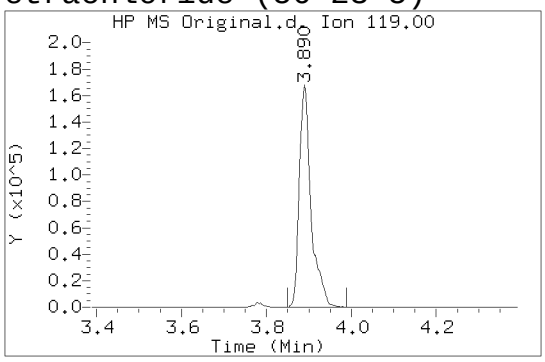


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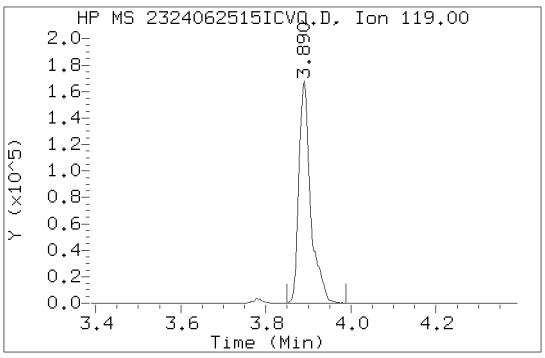
Carbon Tetrachloride (56-23-5)

Reason Code: MP

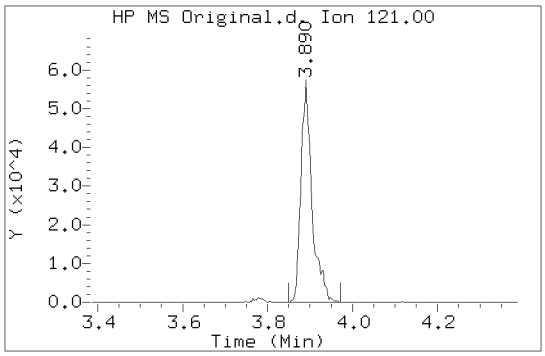
BEFORE
MASS
119
AREA
319388
HEIGHT
168064
25-Jun-2024
20:13



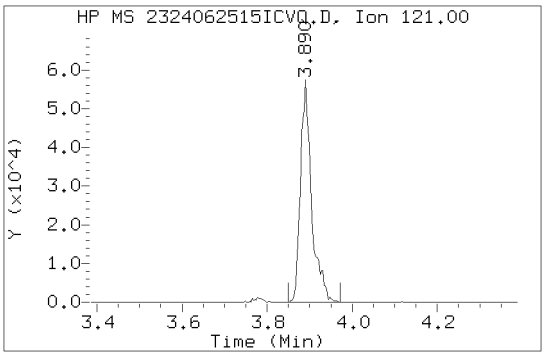
AFTER
MASS
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AREA
319388
HEIGHT
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27-Jun-2024
16:18



BEFORE
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121
AREA
102381
HEIGHT
57424
25-Jun-2024
20:13



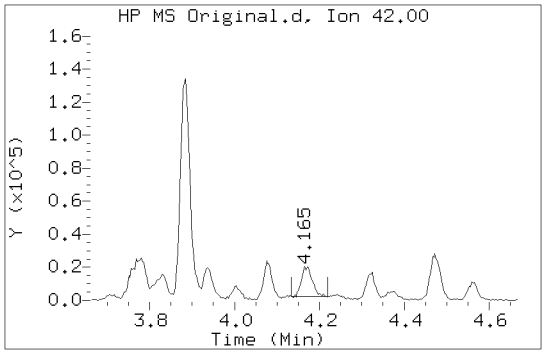
AFTER
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121
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27-Jun-2024
16:18



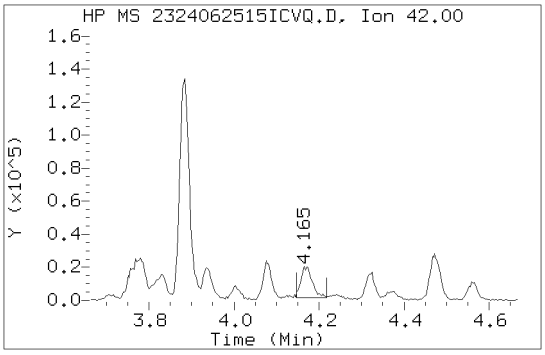
Isobutyl alcohol (78-83-1)

Reason Code: I

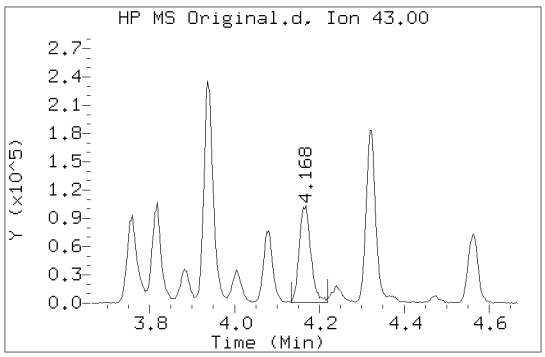
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42
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25-Jun-2024
20:13



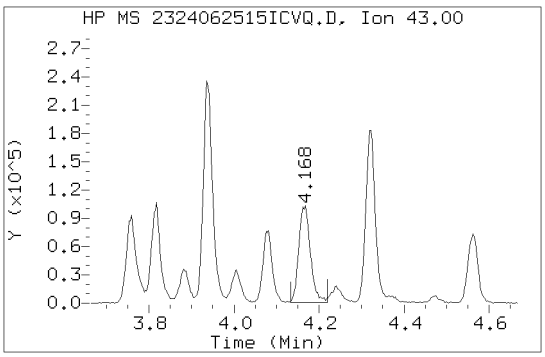
AFTER
MASS
42
AREA
34338
HEIGHT
19007
27-Jun-2024
16:18



BEFORE
MASS
43
AREA
194524
HEIGHT
103240
25-Jun-2024
20:13



AFTER
MASS
43
AREA
194524
HEIGHT
103240
27-Jun-2024
16:18

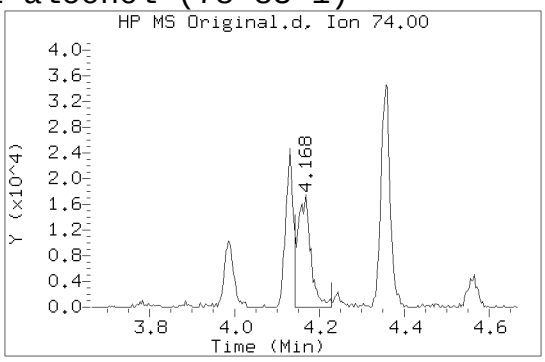


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Inj Date : 25-JUN-2024 15:39
InstruID : ms23.i
LabSampID : ICVQ

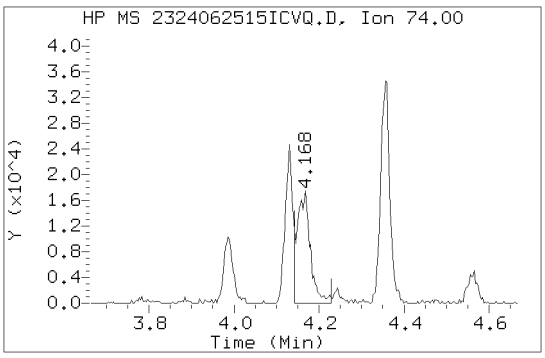
Isobutyl alcohol (78-83-1)

Reason Code: I

BEFORE
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37376
HEIGHT
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25-Jun-2024
20:13



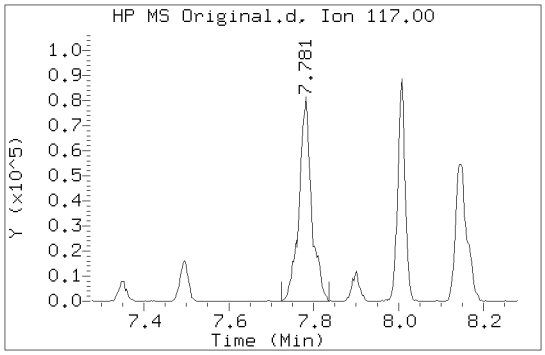
AFTER
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27-Jun-2024
16:18



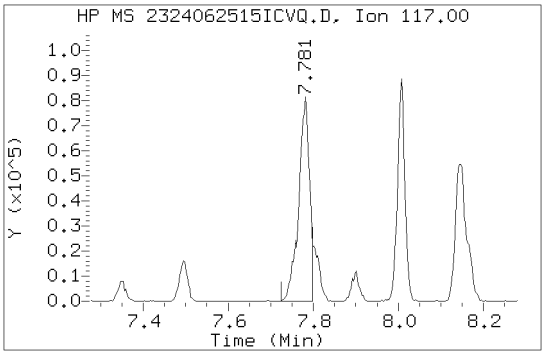
Pentachloroethane (76-01-7)

Reason Code: MP

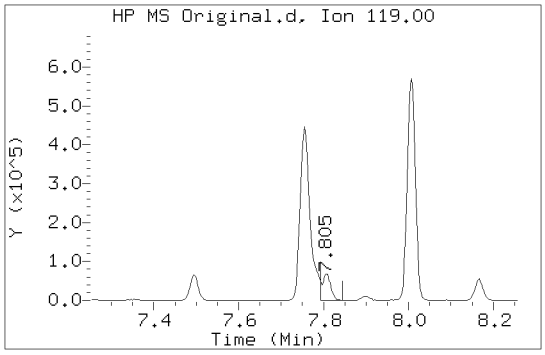
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25-Jun-2024
20:13



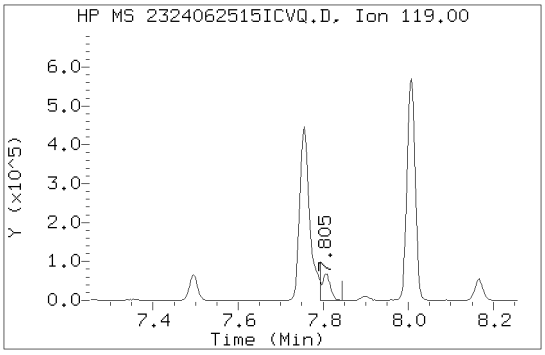
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27-Jun-2024
16:18



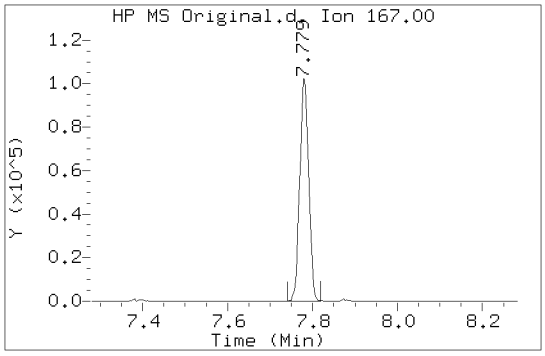
BEFORE
MASS
119
AREA
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HEIGHT
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25-Jun-2024
20:13



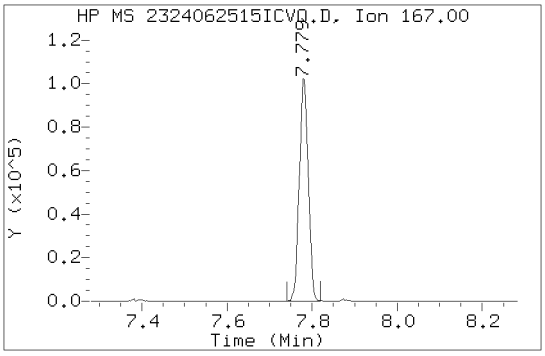
AFTER
MASS
119
AREA
98141
HEIGHT
68016
27-Jun-2024
16:18



BEFORE
MASS
167
AREA
146572
HEIGHT
102128
25-Jun-2024
20:13



AFTER
MASS
167
AREA
146572
HEIGHT
102128
27-Jun-2024
16:18



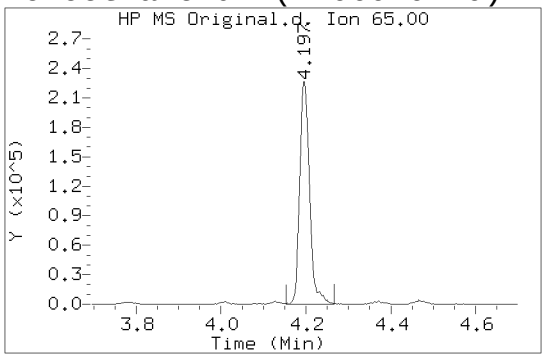
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Inj Date : 25-JUN-2024 15:39
InstruID : ms23.i
LabSampID : ICVQ

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

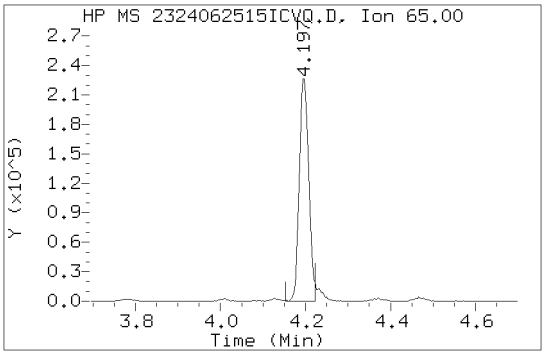
BEFORE

MASS
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AREA
358614
HEIGHT
226066
25-Jun-2024
20:13



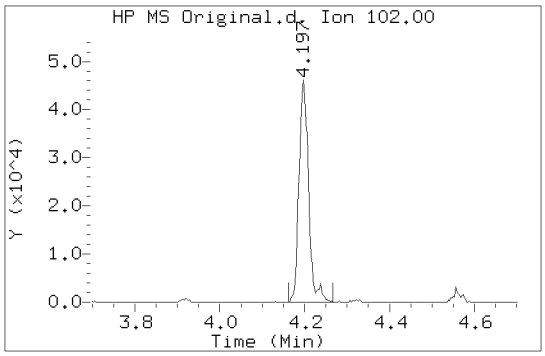
AFTER

MASS
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AREA
343875
HEIGHT
226066
27-Jun-2024
16:18



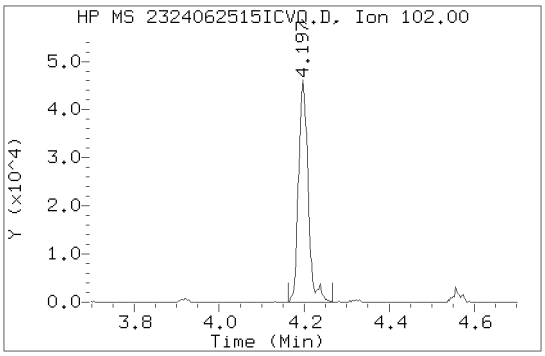
BEFORE

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102
AREA
71081
HEIGHT
46176
25-Jun-2024
20:13



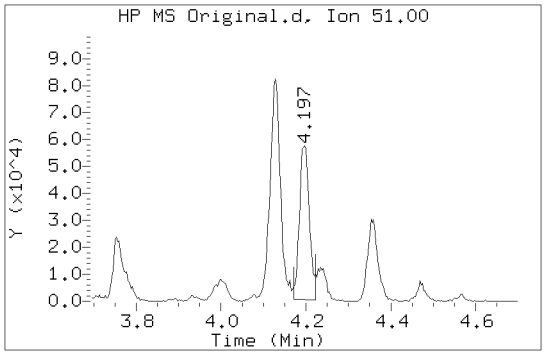
AFTER

MASS
102
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27-Jun-2024
16:18



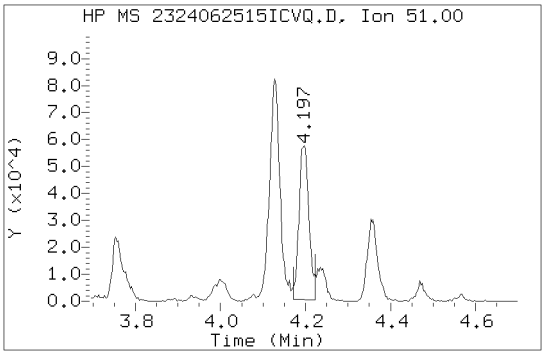
BEFORE

MASS
51
AREA
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HEIGHT
57202
25-Jun-2024
20:13



AFTER

MASS
51
AREA
92559
HEIGHT
57202
27-Jun-2024
16:18



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:18
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406251
Inj Date: 25-JUN-2024 15:39
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062532.D Page 1
Report Date: 27-Jun-2024 16:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062532.D
Lab Smp Id: 1801
Inj Date : 25-JUN-2024 21:17
Operator : ILY Inst ID: ms23.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\23-8260b09.m
Meth Date : 25-Jun-2024 20:25 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.632	1.632	(0.375)	632266	47.4074	47.4074	
2 Chloromethane	50	1.785	1.785	(0.410)	347899	42.6959	42.6959	
3 Vinyl Chloride	62	1.849	1.849	(0.424)	384088	47.8502	47.8502	
4 Bromomethane	94	2.072	2.072	(0.476)	272349	44.8419	44.8419	
5 Chloroethane	64	2.147	2.144	(0.493)	206746	46.8096	46.8096	
6 Pentane	41	2.245	2.245	(0.516)	237948	44.0630	44.0630	
7 Trichlorofluoromethane	101	2.248	2.248	(0.516)	828398	48.4752	48.4752	
8 Dichlorofluoromethane	67	2.277	2.277	(0.523)	785562	54.4552	54.4552	
9 Ethyl Ether	74	2.442	2.442	(0.561)	246991	54.8406	54.8406	
10 1,1-Dichloroethene	61	2.578	2.578	(0.592)	526944	51.7235	51.7235	
12 Carbon Disulfide	76	2.619	2.619	(0.601)	1013916	51.3089	51.3089	
11 Freon 113	101	2.593	2.590	(0.595)	339940	49.0538	49.0538	
13 Iodomethane	127	2.680	2.677	(0.615)	208868	50.6353	50.6353	
14 Acrolein	56	2.764	2.761	(0.634)	333073	260.009	260.009	
16 3-Chloro-1-propene	41	2.848	2.851	(0.654)	389927	50.1448	50.1448	
15 Isopropyl Alcohol	45	2.822	2.825	(0.648)	130600	247.069	247.069	
17 Methylene Chloride	84	2.908	2.911	(0.668)	399748	54.1475	54.1475	
18 Acetone	58	2.920	2.920	(0.670)	182041	267.487	267.487	
19 Methyl acetate	74	2.984	2.984	(0.685)	85072	49.6541	49.6541	
20 trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	490063	52.4693	52.4693	
21 Hexane	57	3.044	3.045	(0.699)	596341	43.0526	43.0526	

Data File: 2324062532.D
Report Date: 27-Jun-2024 16:39

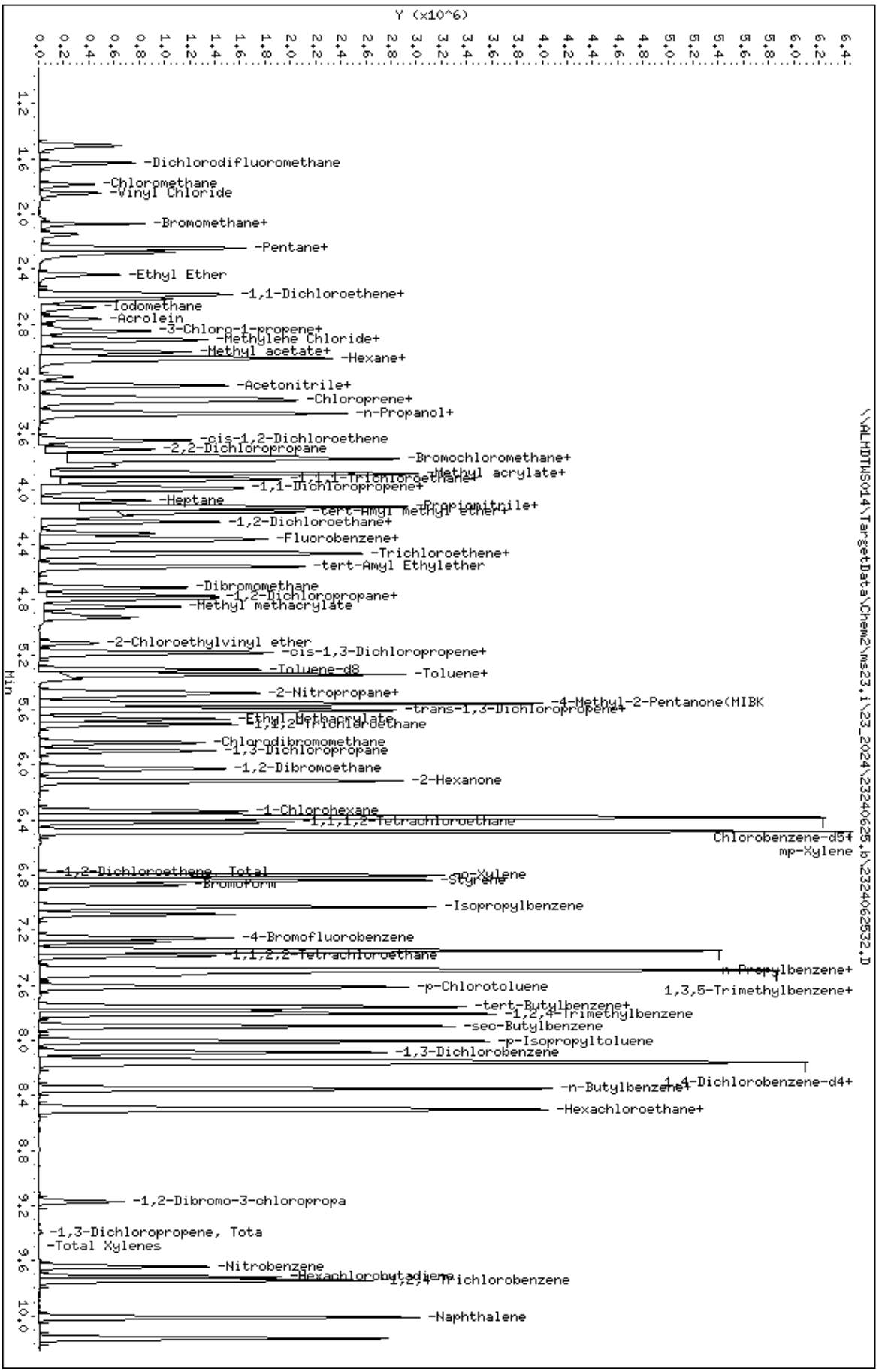
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	3.050	3.050	(0.700)	1409090	56.5197	56.5197	
	23 tert.- Butyl Alcohol	59	3.068	3.068	(0.704)	288141	277.434	277.434	
	24 Acetonitrile	41	3.183	3.184	(0.731)	213311	272.146	272.146	
	25 Diisopropyl ether	45	3.247	3.247	(0.745)	940134	54.5161	54.5161	
	26 Chloroprene	53	3.334	3.334	(0.765)	580513	48.3110	48.3110	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	654547	49.3510	49.3510	
	28 Acrylonitrile	53	3.357	3.357	(0.771)	884645	256.903	256.903(M)	MP
	30 n-Propanol	41	3.450	3.447	(0.792)	221183	548.063	548.063	
	29 Ethyl tert-butyl ether	59	3.450	3.450	(0.792)	1263077	50.7826	50.7826	
	31 Vinyl acetate	86	3.453	3.450	(0.793)	108315	48.9306	48.9306	
	32 cis-1,2-Dichloroethene	61	3.641	3.644	(0.836)	520933	53.9059	53.9059	
	33 2,2-Dichloropropane	77	3.707	3.711	(0.851)	532931	41.7840	41.7840	
M	100 1,2-Dichloroethene, Total	61				1010996	106.375	106.375	
	34 Bromochloromethane	128	3.754	3.757	(0.862)	262161	56.1897	56.1897	
	35 Cyclohexane	84	3.783	3.783	(0.868)	551453	50.8785	50.8785	
	36 Chloroform	83	3.780	3.780	(0.868)	876433	54.0686	54.0686	
	37 Ethyl acetate	43	3.818	3.815	(0.876)	386818	54.2968	54.2968	
	38 Methyl acrylate	55	3.832	3.832	(0.880)	383636	50.6099	50.6099	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.893)	722349	49.1110	49.1110(M)	MP
	40 Tetrahydrofuran	42	3.881	3.881	(0.891)	516799	274.490	274.490	
$	41 Dibromofluoromethane	113	3.884	3.884	(0.892)	273580	30.6206	30.6206	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.900)	790910	53.3834	53.3834	
	43 2-Butanone	72	3.936	3.936	(0.904)	283746	270.967	270.967	
	44 1,1-Dichloropropene	75	3.988	3.988	(0.916)	551823	52.3246	52.3246	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	340962	49.7716	49.7716	
	46 Heptane	71	4.078	4.078	(0.936)	191261	39.2495	39.2495	
	48 Propionitrile	54	4.113	4.110	(0.944)	317882	258.733	258.733	
	47 Benzene	78	4.130	4.127	(0.948)	1491465	53.8871	53.8871	
	49 Methacrylonitrile	67	4.127	4.127	(0.947)	187987	55.6194	55.6194	
	50 tert-amyl methyl Ether	73	4.162	4.162	(0.955)	1299616	51.6689	51.6689	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	353419	30.8991	30.8991(M)	MP
	54 Isobutyl alcohol	42	4.168	4.165	(0.957)	103684	501.385	501.385	
	52 1,2-Dichloroethane	62	4.237	4.235	(0.973)	713831	54.6623	54.6623	
	53 tert-Amyl Alcohol	59	4.237	4.237	(0.973)	210762	272.316	272.316	
*	55 Fluorobenzene	96	4.356	4.356	(1.000)	909177	30.0000		
	56 Diisobutylene	57	4.373	4.374	(1.004)	666751	44.0513	44.0513	
	57 Trichloroethene	95	4.457	4.458	(1.023)	438741	51.7470	51.7470	
	58 Methyl cyclohexane	83	4.475	4.475	(0.703)	558461	47.8658	47.8658	
	59 tert-Amyl Ethylether	59	4.559	4.562	(1.047)	929463	55.5470	55.5470	
	60 Dibromomethane	93	4.712	4.712	(1.082)	306998	56.3085	56.3085	
	61 1,2-Dichloropropane	63	4.770	4.773	(1.095)	336312	55.7216	55.7216	
	62 Bromodichloromethane	83	4.793	4.793	(1.100)	660909	56.8511	56.8511	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	359915	49.9253	49.9253	
	65 2-Chloroethylvinyl ether	63	5.115	5.118	(1.174)	160569	46.6083	46.6083	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	685084	47.7020	47.7020	
	67 Octane	85	5.196	5.196	(0.816)	184603	40.4600	40.4600	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	968481	29.7090	29.7090	
	69 Toluene	92	5.343	5.344	(0.839)	1031636	51.5508	51.5508	
	70 Chloroacetonitrile	75	5.381	5.378	(0.845)	154927	247.020	247.020	
	71 2-Nitropropane	41	5.477	5.474	(0.860)	844516	247.669	247.669	
	72 1,1-Dichloro-2-propanone	63	5.494	5.497	(0.863)	74137	262.909	262.909(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.555	(0.873)	1852771	252.762	252.762	
	75 trans-1,3-Dichloropropene	75	5.592	5.593	(0.879)	717372	48.4070	48.4070	
	74 Tetrachloroethene	164	5.607	5.607	(0.881)	479509	55.1179	55.1179	

Data File: 2324062532.D Page 3
Report Date: 27-Jun-2024 16:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.668	5.665	(0.890)	610545	50.1953	50.1953	
	77 1,1,2-Trichloroethane	83	5.705	5.705	(0.896)	320432	53.9593	53.9593	
	78 Chlorodibromomethane	129	5.841	5.842	(0.918)	610227	50.5568	50.5568	
	79 1,3-Dichloropropane	76	5.899	5.899	(0.927)	687187	55.1624	55.1624	
	80 1,2-Dibromoethane	107	6.021	6.021	(0.946)	482033	55.4462	55.4462	
	81 2-Hexanone	43	6.116	6.117	(0.961)	1344035	248.552	248.552	
	82 1-Chlorohexane	91	6.336	6.337	(0.995)	512058	49.0146	49.0146	
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	408983	30.0000		
	85 Ethylbenzene	106	6.383	6.383	(1.003)	622464	51.3896	51.3896	
	84 Chlorobenzene	112	6.380	6.380	(1.002)	1230662	53.5370	53.5370	
	86 1,1,1,2-Tetrachloroethane	131	6.415	6.415	(1.008)	523371	55.5015	55.5015	
	87 mp-Xylene	106	6.481	6.484	(1.018)	1554900	106.175	106.175	
M	120 1,3-Dichloropropene, Total	75				1402456	96.1089	96.1089	
	88 o-Xylene	106	6.800	6.803	(1.068)	773859	53.7564	53.7564	
	89 Styrene	104	6.837	6.838	(0.840)	1301569	48.1946	48.1946	
	90 Bromoform	173	6.872	6.872	(0.844)	471028	49.3380	49.3380	
	91 Isopropylbenzene	105	7.031	7.031	(0.863)	1825496	47.5884	47.5884	
$	92 4-Bromofluorobenzene	174	7.257	7.260	(0.891)	405092	29.0015	29.0015	
M	121 TOTAL XYLENES	106				2328759	159.932	159.932	
	94 n-Propylbenzene	120	7.353	7.350	(0.903)	541559	47.6867	47.6867	
	93 Bromobenzene	156	7.350	7.350	(0.903)	607465	50.6494	50.6494	
	95 1,1,2,2-Tetrachloroethane	83	7.387	7.388	(0.907)	528255	53.2601	53.2601	
	97 1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	1705577	50.9384	50.9384	
	96 o-Chlorotoluene	91	7.483	7.486	(0.919)	1565115	50.5319	50.5319	
	98 1,2,3-Trichloropropane	110	7.506	7.509	(0.922)	223567	53.1376	53.1376	
	99 trans-1,4-Dichloro-2-butene	53	7.526	7.529	(0.924)	175386	44.6108	44.6108(Q)	
	101 p-Chlorotoluene	91	7.610	7.613	(0.935)	1438816	50.2429	50.2429	
	102 tert-Butylbenzene	134	7.755	7.758	(0.952)	415560	49.5650	49.5650	
	103 Pentachloroethane	117	7.778	7.778	(0.955)	342301	43.3077	43.3077(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	1744399	51.2960	51.2960	
	105 sec-Butylbenzene	105	7.897	7.900	(0.970)	1956771	49.0809	49.0809	
	106 p-Isopropyltoluene	134	8.007	8.007	(0.983)	474685	49.2926	49.2926	
	107 1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	1056643	50.0002	50.0002	
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	482823	30.0000		
	109 1,4-Dichlorobenzene	146	8.158	8.158	(1.002)	1079499	49.8319	49.8319	
	111 n-Butylbenzene	134	8.355	8.355	(1.026)	424751	47.6582	47.6582(Q)	
	110 Benzyl Chloride	126	8.349	8.349	(1.025)	166735	31.8988	31.8988(Q)	
	112 Hexachloroethane	117	8.494	8.497	(1.043)	358989	47.3388	47.3388	
	113 1,2-Dichlorobenzene	146	8.505	8.505	(1.044)	1047696	51.0694	51.0694	
	114 1,2-Dibromo-3-chloropropane	75	9.168	9.171	(1.126)	146469	53.5378	53.5378	
	115 Nitrobenzene	77	9.643	9.643	(1.184)	567172	473.249	473.249	
	116 Hexachlorobutadiene	225	9.718	9.718	(1.193)	324787	46.0230	46.0230	
	117 1,2,4-Trichlorobenzene	180	9.744	9.747	(1.197)	724037	51.0076	51.0076	
	118 Naphthalene	128	10.011	10.014	(1.229)	1969053	49.4612	49.4612	
	119 1,2,3-Trichlorobenzene	180	10.164	10.167	(1.248)	742051	52.8294	52.8294	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\ALMDTWS014\TargetData\Chem2\ms23,i\23_2024\23240625,b\23240625 32,D
Date : 25-JUN-2024 21:17
Client ID:
Sample Info: 1801;;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

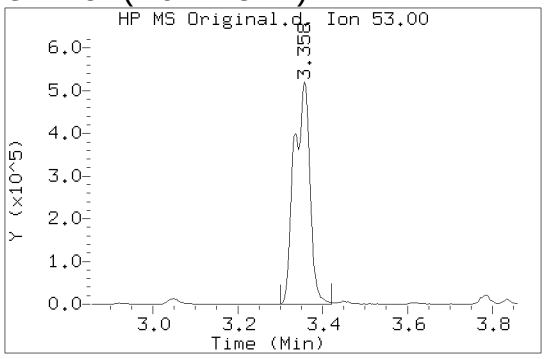
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240625.b\2324062532.D
Inj Date : 25-JUN-2024 21:17
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LabSampID : 1801

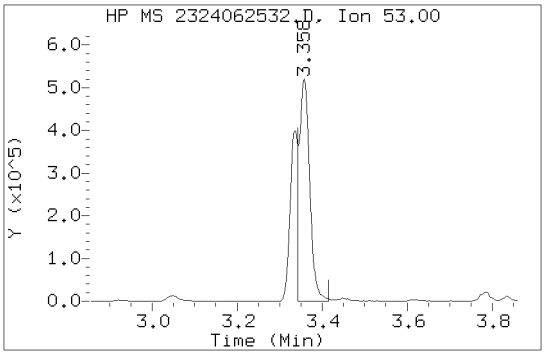
Acrylonitrile (107-13-1)

Reason Code: MP

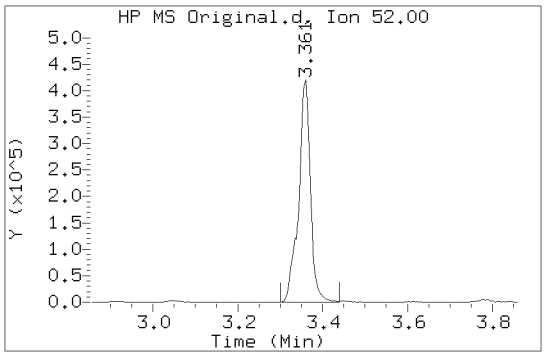
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53
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HEIGHT
520640
25-Jun-2024
23:00



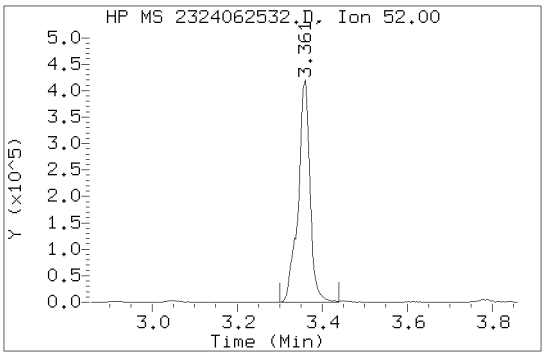
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HEIGHT
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27-Jun-2024
16:39



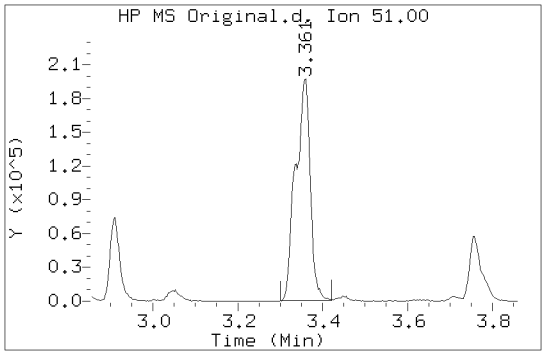
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25-Jun-2024
23:00



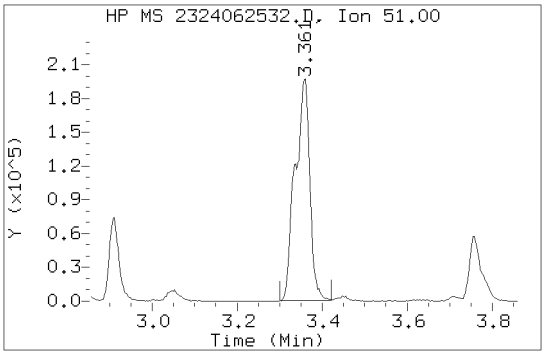
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25-Jun-2024
23:00



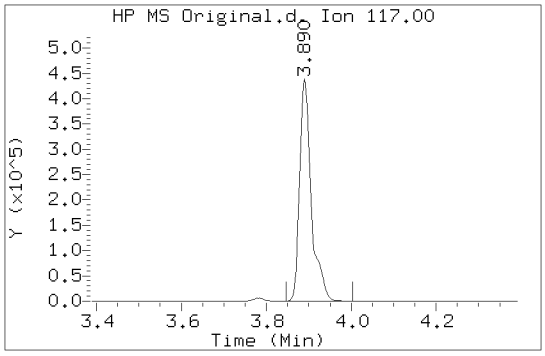
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27-Jun-2024
16:39



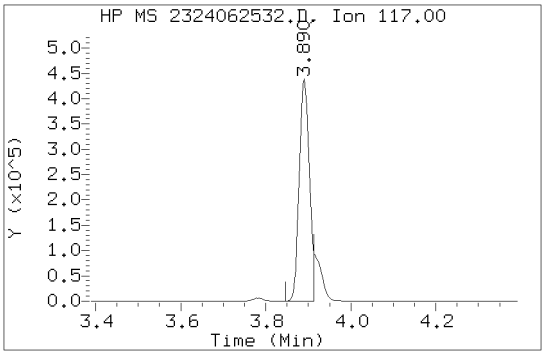
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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25-Jun-2024
23:00



AFTER
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117
AREA
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HEIGHT
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27-Jun-2024
16:39

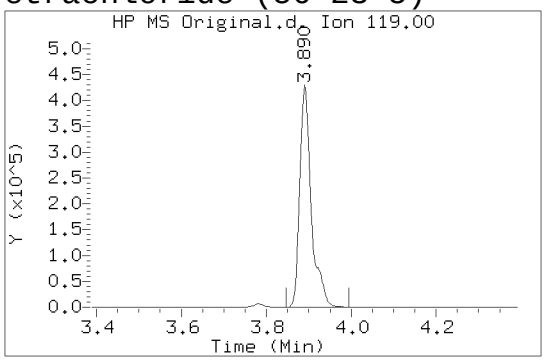


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InstruID : ms23.i
LabSampID : 1801

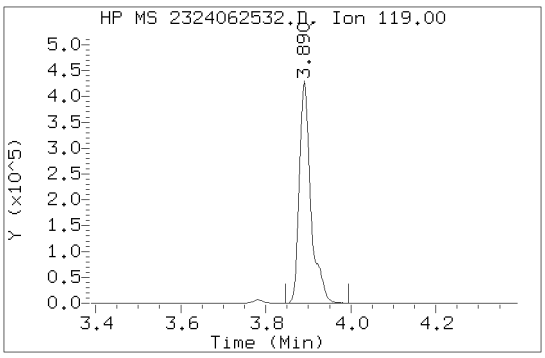
Carbon Tetrachloride (56-23-5)

Reason Code: MP

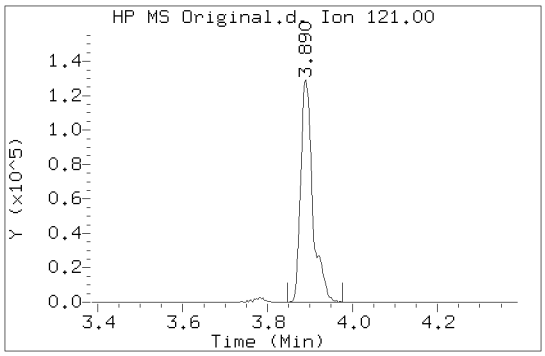
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HEIGHT
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25-Jun-2024
23:00



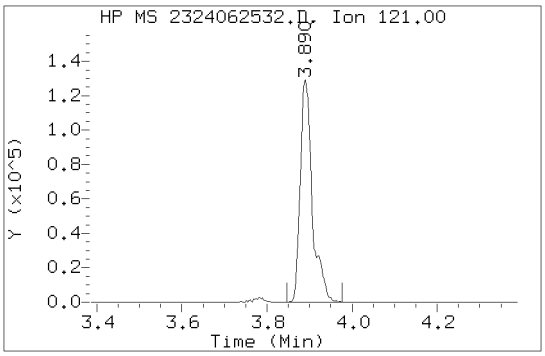
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AREA
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HEIGHT
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16:39



BEFORE
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HEIGHT
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25-Jun-2024
23:00



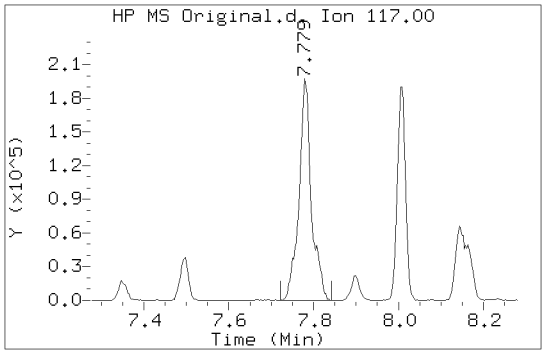
AFTER
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HEIGHT
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27-Jun-2024
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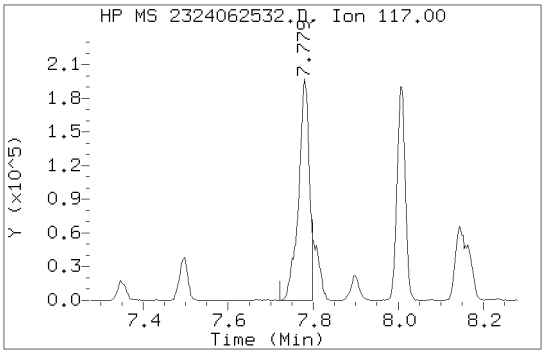
Pentachloroethane (76-01-7)

Reason Code: MP

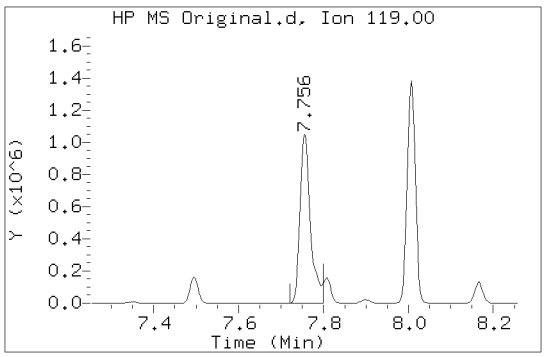
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HEIGHT
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25-Jun-2024
23:00



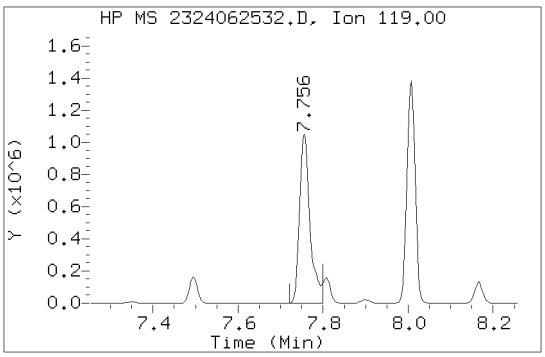
AFTER
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HEIGHT
197376
27-Jun-2024
16:39



BEFORE
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HEIGHT
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25-Jun-2024
23:00



AFTER
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HEIGHT
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27-Jun-2024
16:39

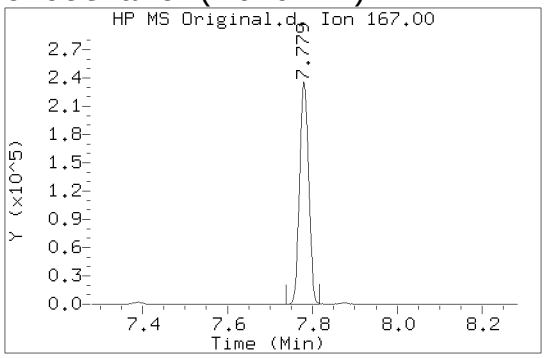


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Inj Date : 25-JUN-2024 21:17
InstruID : ms23.i
LabSampID : 1801

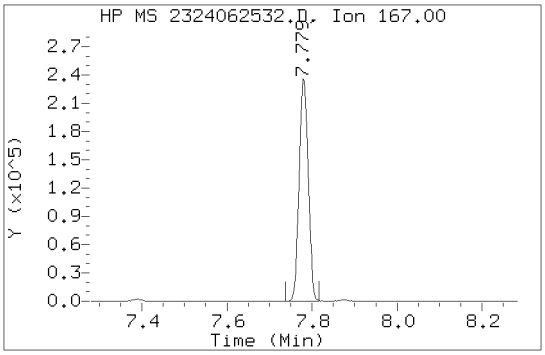
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
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HEIGHT
235381
25-Jun-2024
23:00



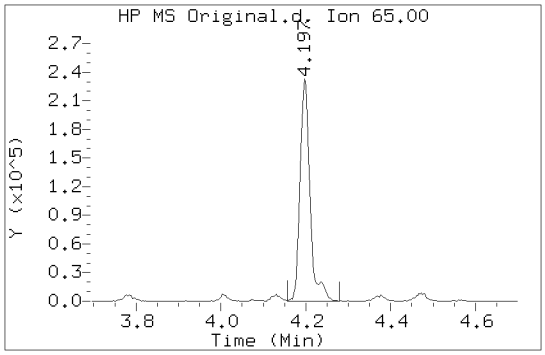
AFTER
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HEIGHT
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27-Jun-2024
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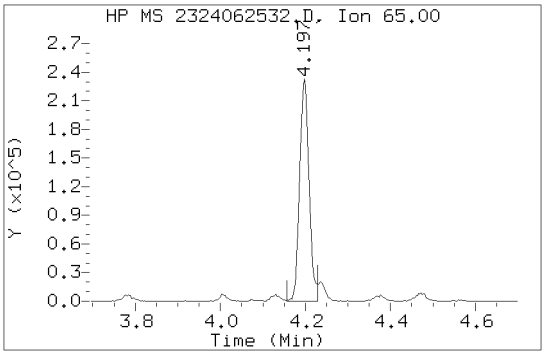
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Reason Code: MP

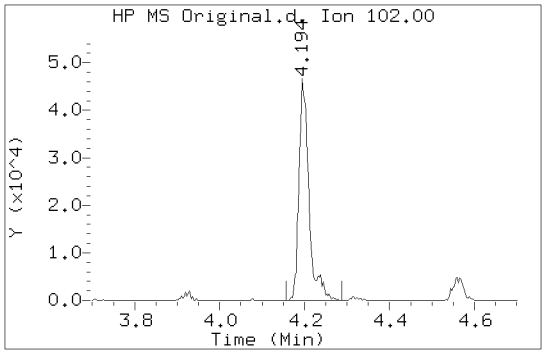
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HEIGHT
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25-Jun-2024
23:00



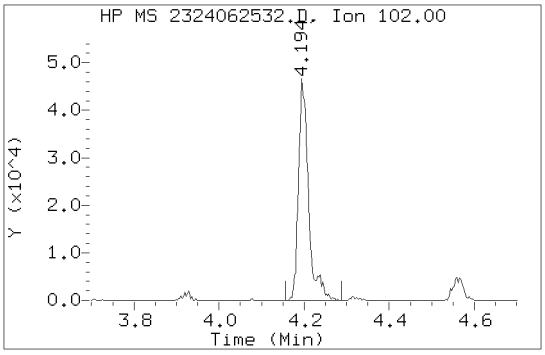
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27-Jun-2024
16:39



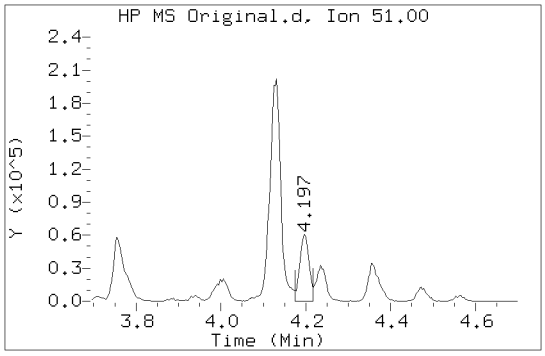
BEFORE
MASS
102
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HEIGHT
46640
25-Jun-2024
23:00



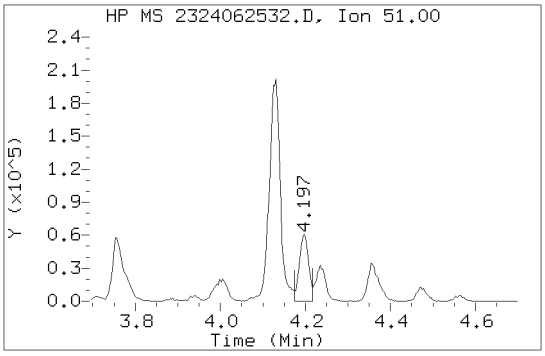
AFTER
MASS
102
AREA
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HEIGHT
46640
27-Jun-2024
16:39



BEFORE
MASS
51
AREA
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HEIGHT
60798
25-Jun-2024
23:00



AFTER
MASS
51
AREA
91702
HEIGHT
60798
27-Jun-2024
16:39



UNASSIGNED PEAK REPORT

Report Date: 06/27/2024 16:39
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240625.b/232406253
Inj Date: 25-JUN-2024 21:17
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 23240627

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

www.alsglobal.com

Data File: 2324062700.D Page 1
Report Date: 28-Jun-2024 08:03

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062700.D
Lab Smp Id: 1000
Inj Date : 27-JUN-2024 08:15
Operator : ILY Inst ID: ms23.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
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: NAMDTW7026

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	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.248	7.159 (0.000)		95	183488			0.00- 100.00	100.00
7.248	8.129 (0.000)		50	33264			15.00- 40.00	18.13
7.248	8.129 (0.000)		75	95024			30.00- 60.00	51.79
7.248	8.129 (0.000)		96	12452			5.00- 9.00	6.79
7.248	8.129 (0.000)		173	0	0.0	0.0	0.00- 2.00	0.00
7.248	8.129 (0.000)		174	176128			50.00- 0.00	95.99
7.248	8.129 (0.000)		175	13239			5.00- 9.00	7.52
7.248	8.129 (0.000)		176	174208			95.00- 101.00	98.91
7.248	8.129 (0.000)		177	11719			5.00- 9.00	6.73

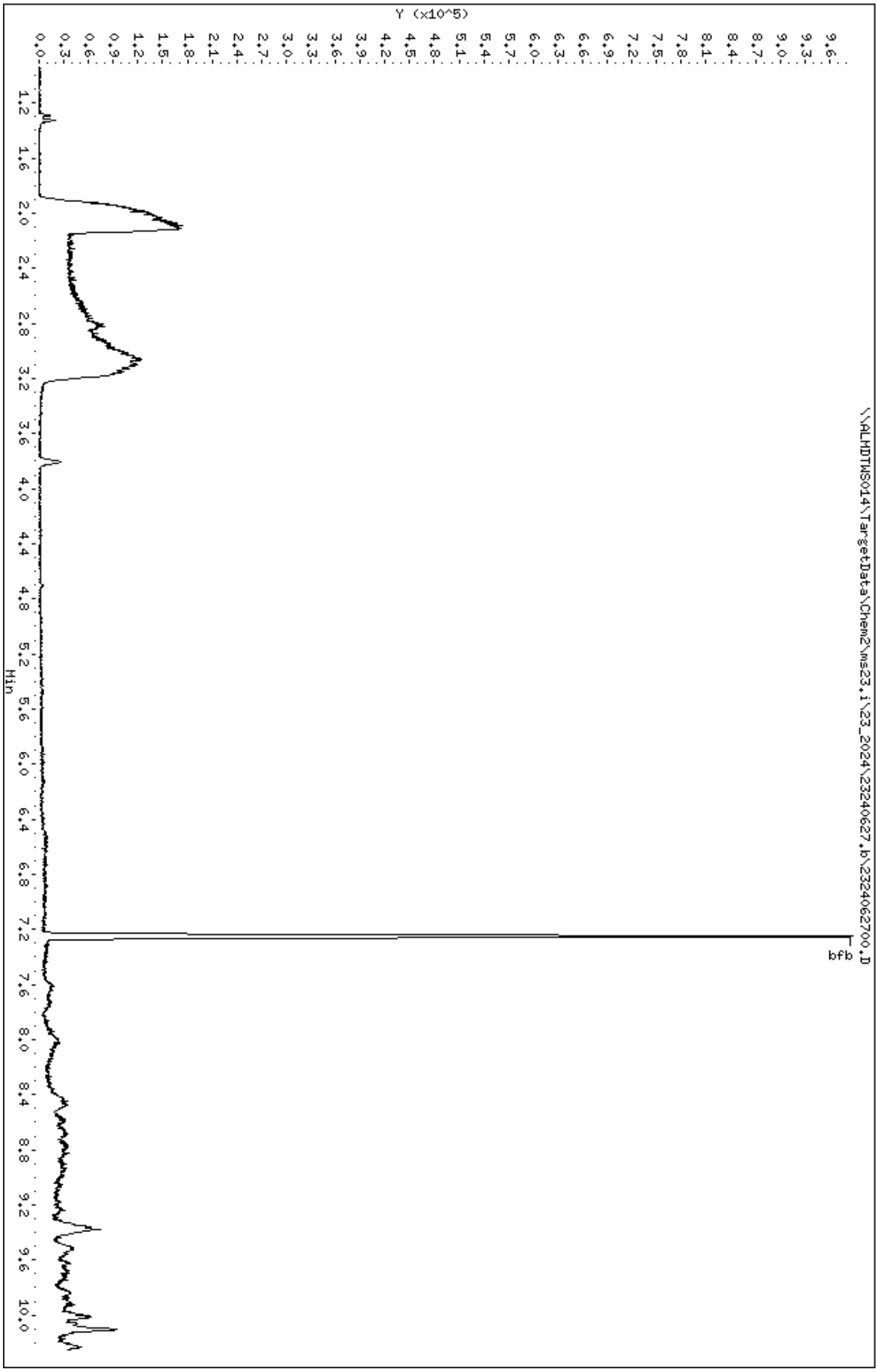
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	51.79
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	95.99
175	5.00 - 9.00% of mass 174	7.22 (7.52)
176	95.00 - 101.00% of mass 174	94.94 (98.91)
177	5.00 - 9.00% of mass 176	6.39 (6.73)

Data File: 2324062700.D
Spectrum: Avg. Scans 2179-2181 (7.25), Background Scan 2167
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1745	70.00	1338	107.00	445	143.00	2075
37.00	8310	72.00	1290	109.00	54	145.00	309
38.00	6182	73.00	8970	110.00	178	146.00	352
39.00	2389	74.00	32152	111.00	180	147.00	78
40.00	122	75.00	95024	112.00	310	148.00	780
44.00	634	76.00	9092	113.00	79	149.00	162
45.00	1097	77.00	614	115.00	124	150.00	301
47.00	1589	78.00	1453	116.00	943	151.00	72
48.00	1088	79.00	4517	117.00	1345	152.00	58
49.00	6562	80.00	1325	118.00	861	153.00	211
50.00	33264	81.00	5251	119.00	850	154.00	137
51.00	9365	82.00	898	124.00	116	155.00	242
52.00	495	85.00	74	126.00	91	156.00	184
55.00	523	86.00	256	127.00	91	157.00	439
56.00	2707	87.00	4357	128.00	773	159.00	443
57.00	4318	88.00	5457	129.00	336	161.00	278
58.00	271	91.00	686	130.00	750	167.00	85
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61.00	9283	93.00	8088	135.00	438	172.00	1081
62.00	8541	94.00	23480	136.00	54	174.00	176128
63.00	6308	95.00	183488	137.00	524	175.00	13239
64.00	1074	96.00	12452	138.00	57	176.00	174208
65.00	209	97.00	405	139.00	150	177.00	11719
67.00	529	104.00	764	140.00	151	178.00	469
68.00	18824	105.00	459	141.00	2589	249.00	61
69.00	19136	106.00	545	142.00	560		

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Instrument: ms23.i
Operator: ILY
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NO MANUAL INTEGRATIONS

Data File: 2324062701.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

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Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.632	1.632	(0.375)	669061	50.0000	47.9910	
2	Chloromethane	50	1.788	1.788	(0.411)	413592	50.0000	48.5571	
3	Vinyl Chloride	62	1.852	1.852	(0.425)	428268	50.0000	51.0407	
4	Bromomethane	94	2.075	2.075	(0.477)	309610	50.0000	48.7653	
5	Chloroethane	64	2.150	2.150	(0.494)	249943	50.0000	54.1360	
6	Pentane	41	2.245	2.245	(0.516)	262024	50.0000	46.4174	
7	Trichlorofluoromethane	101	2.251	2.251	(0.517)	869974	50.0000	48.7006	
8	Dichlorofluoromethane	67	2.280	2.280	(0.524)	796424	50.0000	52.8142	
9	Ethyl Ether	74	2.439	2.439	(0.560)	245553	50.0000	52.1572	
10	1,1-Dichloroethene	61	2.578	2.578	(0.592)	536036	50.0000	50.3344	
11	Freon 113	101	2.593	2.593	(0.596)	373096	50.0000	51.5037	
12	Carbon Disulfide	76	2.619	2.619	(0.602)	1062410	50.0000	51.4317	
13	Iodomethane	127	2.677	2.677	(0.615)	224041	50.0000	51.8197	
14	Acrolein	56	2.761	2.761	(0.634)	349876	250.000	261.283	
15	Isopropyl Alcohol	45	2.825	2.825	(0.649)	116858	250.000	211.191	
16	3-Chloro-1-propene	41	2.851	2.851	(0.655)	405465	50.0000	49.8830	
17	Methylene Chloride	84	2.909	2.909	(0.668)	405186	50.0000	52.5042	
18	Acetone	58	2.920	2.920	(0.671)	177639	250.000	249.701	
19	Methyl acetate	74	2.981	2.981	(0.685)	77195	50.0000	43.1027	
20	trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	512080	50.0000	52.4491	
21	Hexane	57	3.045	3.045	(0.699)	689457	50.0000	47.6167	

Data File: 2324062701.D
Report Date: 28-Jun-2024 11:18

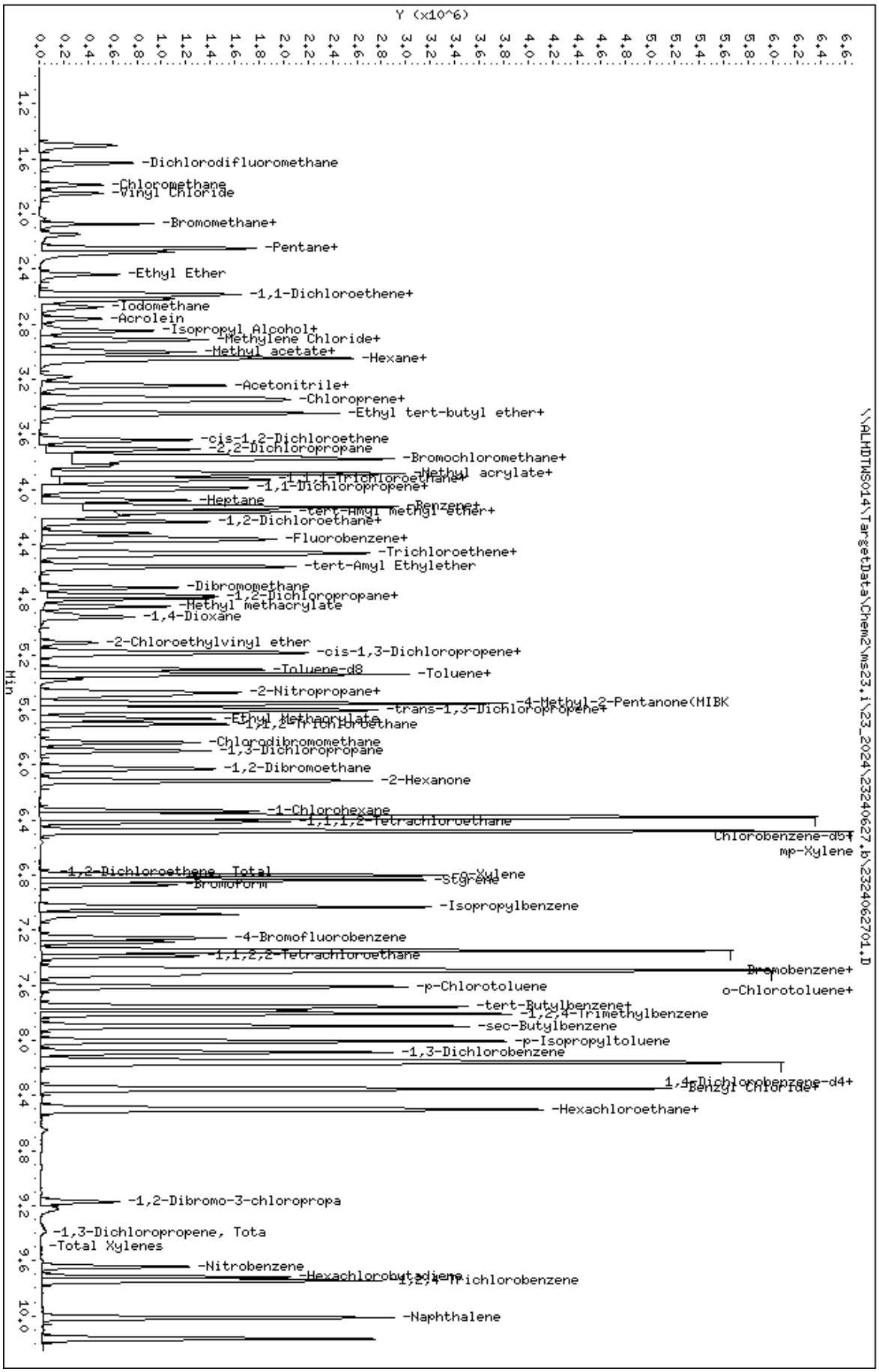
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	3.047	3.047	(0.700)	1379413	50.0000	52.9301	
	23 tert.- Butyl Alcohol	59	3.065	3.065	(0.704)	276195	250.000	254.401	
	24 Acetonitrile	41	3.184	3.184	(0.731)	200965	250.000	245.277	
	25 Diisopropyl ether	45	3.244	3.244	(0.745)	967047	50.0000	53.6451	
	26 Chloroprene	53	3.334	3.334	(0.766)	611311	50.0000	48.6663	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.769)	674335	50.0000	48.6412	
	28 Acrylonitrile	53	3.354	3.354	(0.771)	798534	250.000	222.006(M)	MP
	29 Ethyl tert-butyl ether	59	3.447	3.447	(0.792)	1260242	50.0000	48.4815	
	30 n-Propanol	41	3.447	3.447	(0.792)	222594	500.000	527.642(a)	
	31 Vinyl Acetate	86	3.447	3.447	(0.792)	111201	50.0000	48.0616	
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	533012	50.0000	52.7642	
	33 2,2-Dichloropropane	77	3.708	3.708	(0.852)	757659	50.0000	56.8278	
	34 Bromochloromethane	128	3.757	3.757	(0.863)	260309	50.0000	53.3734	
	35 Cyclohexane	84	3.780	3.780	(0.868)	577558	50.0000	50.9763	
	36 Chloroform	83	3.780	3.780	(0.868)	864499	50.0000	51.0198	
	37 Ethyl Acetate	43	3.815	3.815	(0.876)	379359	50.0000	50.9408	
	38 Methyl acrylate	55	3.832	3.832	(0.880)	370718	50.0000	46.8054	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.894)	727699	50.0000	47.3377(M)	MP
$	41 Dibromofluoromethane	113	3.881	3.881	(0.892)	276443	30.0000	29.5994	
	40 Tetrahydrofuran	42	3.878	3.878	(0.891)	488463	250.000	248.190	
	42 1,1,1-Trichloroethane	97	3.922	3.922	(0.901)	794057	50.0000	51.2718	
	43 2-Butanone	72	3.936	3.936	(0.904)	280706	250.000	256.440	
	44 1,1-Dichloropropene	75	3.986	3.986	(0.916)	579776	50.0000	52.5913	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	360078	50.0000	50.2829	
	46 Heptane	71	4.081	4.081	(0.937)	268107	50.0000	52.6336	
	47 Benzene	78	4.130	4.130	(0.949)	1517969	50.0000	52.4666	
	48 Propionitrile	54	4.113	4.113	(0.945)	303144	250.000	236.149	
	49 Methacrylonitrile	67	4.127	4.127	(0.948)	178452	50.0000	50.5089	
	50 tert-Amyl methyl ether	73	4.162	4.162	(0.956)	1283635	50.0000	48.8326	
	54 Isobutyl alcohol	42	4.168	4.168	(0.957)	98934	500.000	459.878	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.964)	344791	30.0000	28.8376(M)	MP
	52 1,2-Dichloroethane	62	4.235	4.235	(0.973)	697029	50.0000	51.0612	
	53 tert-Amyl Alcohol	59	4.237	4.237	(0.973)	200988	250.000	248.427	
*	55 Fluorobenzene	96	4.353	4.353	(1.000)	950388	30.0000		
	56 Diisobutylene	57	4.371	4.371	(1.004)	763715	50.0000	48.4339	
	57 Trichloroethene	95	4.458	4.458	(1.024)	448293	50.0000	50.5809	
	58 Methyl cyclohexane	83	4.472	4.472	(0.703)	614207	50.0000	52.0924	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.048)	944158	50.0000	53.9785	
	60 Dibromomethane	93	4.712	4.712	(1.082)	303891	50.0000	53.3217	
	61 1,2-Dichloropropane	63	4.773	4.773	(1.096)	338727	50.0000	53.6882	
	62 Bromodichloromethane	83	4.793	4.793	(1.101)	649198	50.0000	53.4222	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	349410	50.0000	46.3838	
	64 1,4-Dioxane	88	4.903	4.903	(1.126)	158018	1250.00	1285.21	
	65 2-Chloroethylvinyl ether	63	5.115	5.115	(1.175)	153095	50.0000	43.1907	
	66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	731066	50.0000	50.3541	
	67 Octane	85	5.196	5.196	(0.816)	274347	50.0000	59.4997	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	986453	30.0000	29.9434	
	69 Toluene	92	5.343	5.343	(0.839)	1065734	50.0000	52.6969	
	70 Chloroacetonitrile	75	5.375	5.375	(0.844)	146480	250.000	231.240	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	785986	250.000	228.215	
	72 1,1-Dichloro-2-Propanone	63	5.497	5.497	(0.864)	67461	250.000	236.728	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.552	5.552	(0.872)	1802928	250.000	243.429	
	75 trans-1,3-Dichloropropene	75	5.592	5.592	(0.879)	754097	50.0000	50.3430	
	74 Tetrachloroethene	164	5.607	5.607	(0.881)	444442	50.0000	50.5520	

Data File: 2324062701.D Page 3
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.665	5.665	(0.890)	593202	50.0000	48.2701	
	77 1,1,2-Trichloroethane	83	5.703	5.703	(0.896)	320250	50.0000	53.3638	
	78 Chlorodibromomethane	129	5.839	5.839	(0.917)	580472	50.0000	47.6035	
	79 1,3-Dichloropropane	76	5.899	5.899	(0.927)	681912	50.0000	54.1656	
	80 1,2-Dibromoethane	107	6.021	6.021	(0.946)	465079	50.0000	52.9357	
	81 2-Hexanone	43	6.117	6.117	(0.961)	1301678	250.000	238.254	
	82 1-Chlorohexane	91	6.334	6.334	(0.995)	567220	50.0000	53.7261	
*	83 Chlorobenzene-d5	82	6.366	6.366	(1.000)	413312	30.0000		
	84 Chlorobenzene	112	6.377	6.377	(1.002)	1259933	50.0000	54.2363	
	85 Ethylbenzene	106	6.380	6.380	(1.002)	647174	50.0000	52.8700	
	86 1,1,1,2-Tetrachloroethane	131	6.415	6.415	(1.008)	517582	50.0000	54.3127	
	87 mp-Xylene	106	6.481	6.481	(1.018)	1606639	100.000	108.559	
	88 o-Xylene	106	6.800	6.800	(1.068)	800607	50.0000	55.0319	
	89 Styrene	104	6.837	6.837	(0.840)	1342482	50.0000	51.3341	
	90 Bromoform	173	6.869	6.869	(0.844)	445467	50.0000	48.2055	
	91 Isopropylbenzene	105	7.031	7.031	(0.863)	1885777	50.0000	50.7722	
M	100 1,2-Dichloroethene, Total	61				1045092	100.000	105.213	
$	92 4-Bromofluorobenzene	174	7.254	7.254	(0.891)	398493	30.0000	29.4696	
	93 Bromobenzene	156	7.350	7.350	(0.903)	611132	50.0000	52.6350	
	94 n-Propylbenzene	120	7.350	7.350	(0.903)	571304	50.0000	51.9643	
	95 1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	513593	50.0000	53.4889	
	96 o-Chlorotoluene	91	7.486	7.486	(0.919)	1615631	50.0000	53.8825	
	97 1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	1772637	50.0000	54.6865	
	98 1,2,3-Trichloropropane	110	7.506	7.506	(0.922)	210146	50.0000	51.5943	
	99 trans-1,4-Dichloro-2-butene	53	7.527	7.527	(0.924)	184220	50.0000	48.3741	
	101 p-Chlorotoluene	91	7.611	7.611	(0.935)	1501289	50.0000	54.1527	
	102 tert-Butylbenzene	134	7.755	7.755	(0.952)	429865	50.0000	52.9614	
	103 Pentachloroethane	117	7.781	7.781	(0.956)	397443	50.0000	51.8990(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	1795948	50.0000	54.5529	
	105 sec-Butylbenzene	105	7.897	7.897	(0.970)	2069243	50.0000	53.6130	
	106 p-Isopropyltoluene	134	8.007	8.007	(0.983)	518982	50.0000	55.6692	
	107 1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	1095421	50.0000	53.5440	
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	467414	30.0000		
	109 1,4-Dichlorobenzene	146	8.158	8.158	(1.002)	1115681	50.0000	53.2000	
	110 Benzyl Chloride	126	8.349	8.349	(1.025)	275630	50.0000	54.2287	
	111 n-Butylbenzene	134	8.355	8.355	(1.026)	467488	50.0000	54.1826	
	112 Hexachloroethane	117	8.497	8.497	(1.043)	360234	50.0000	49.0608	
	113 1,2-Dichlorobenzene	146	8.505	8.505	(1.044)	1063541	50.0000	53.5508	
	114 1,2-Dibromo-3-chloropropane	75	9.174	9.174	(1.127)	138495	50.0000	52.2920	
	115 Nitrobenzene	77	9.640	9.640	(1.184)	499283	500.000	433.121	
	116 Hexachlorobutadiene	225	9.718	9.718	(1.193)	353065	50.0000	51.6794	
M	120 1,3-Dichloropropene, Total	75				1485163	100.000	100.697	
	117 1,2,4-Trichlorobenzene	180	9.744	9.744	(1.197)	753818	50.0000	54.8563	
M	121 Total Xylenes	106				2407246	150.000	163.591	
	118 Naphthalene	128	10.014	10.014	(1.230)	1916895	50.0000	49.7371	
	119 1,2,3-Trichlorobenzene	180	10.167	10.167	(1.249)	742665	50.0000	54.6162	

QC Flag Legend

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

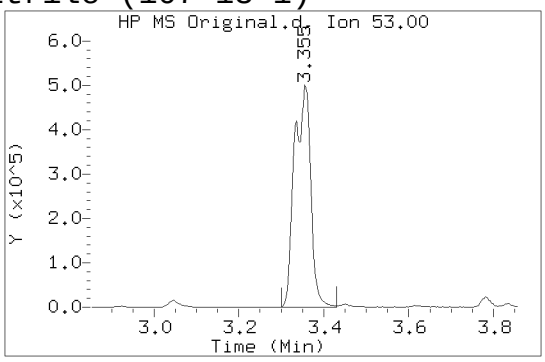

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Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Ethyl tert-butyl ether+
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-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
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-Heptane
-Benzene+
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-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
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-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
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-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
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-1,2-Dibromoethane
-2-Hexanone
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1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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1,2,4-Trichlorobenzene
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Page 1

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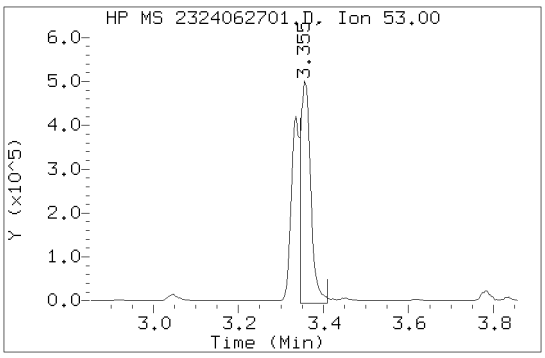
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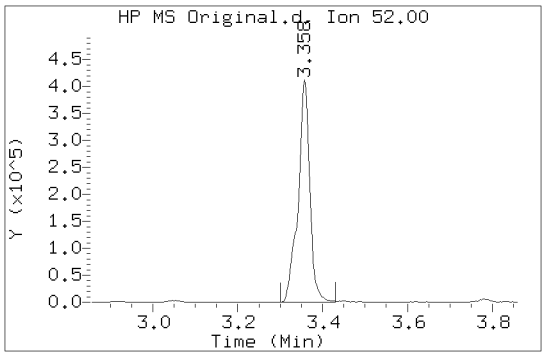
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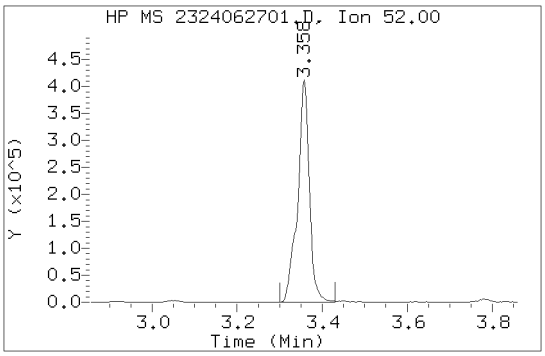
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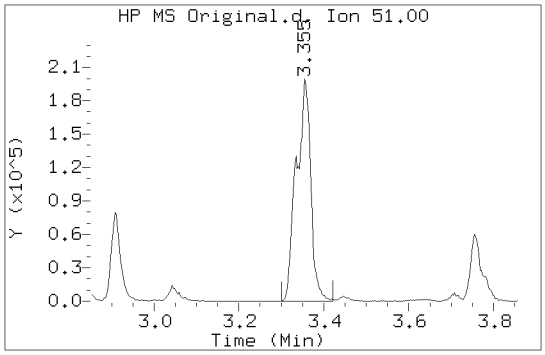
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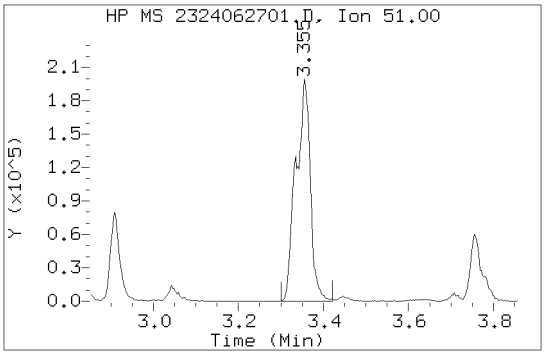
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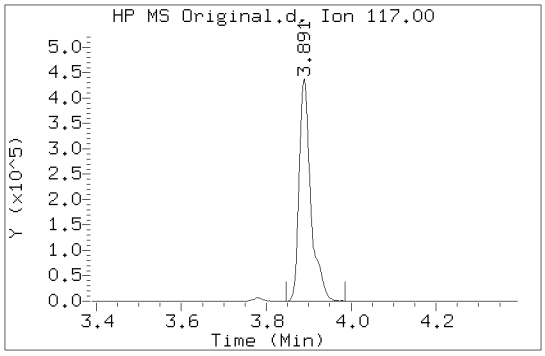
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11:18



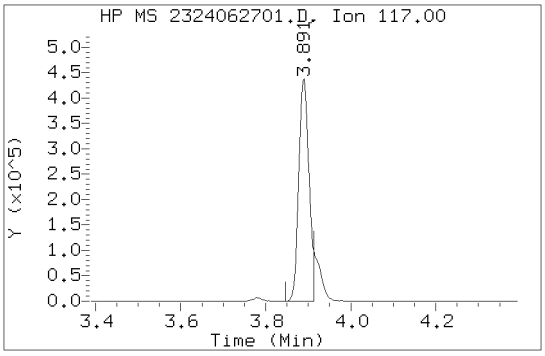
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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28-Jun-2024
11:18

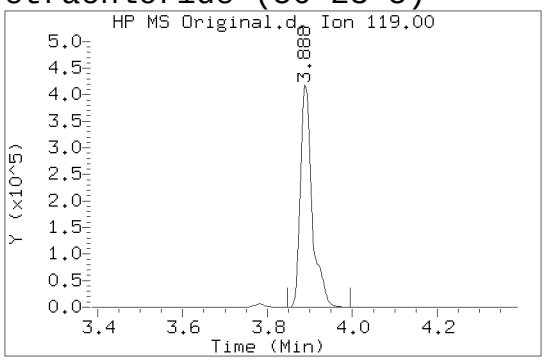


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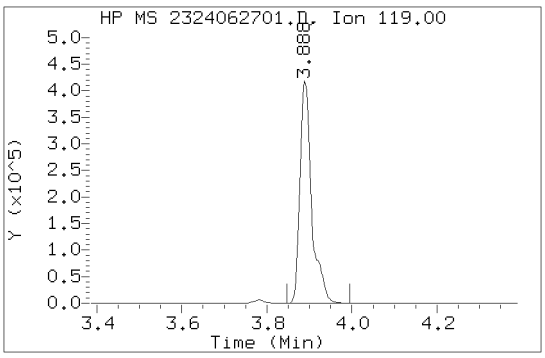
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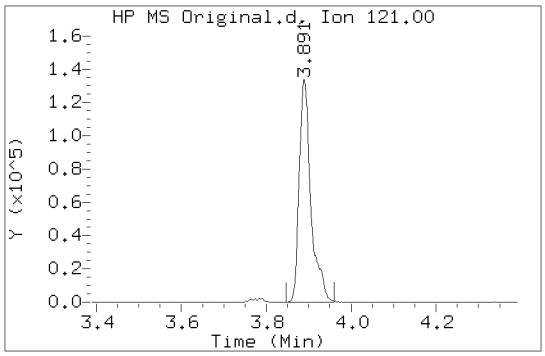
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08:56



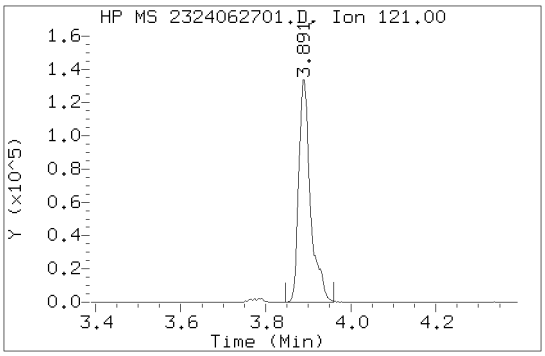
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BEFORE
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27-Jun-2024
08:56



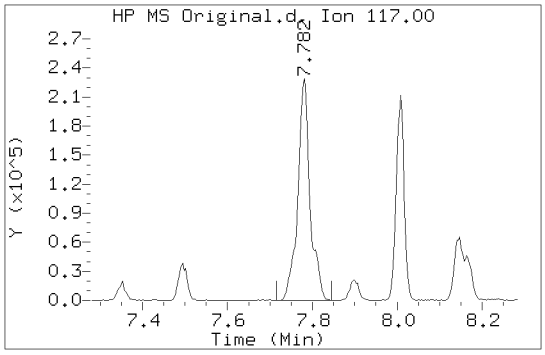
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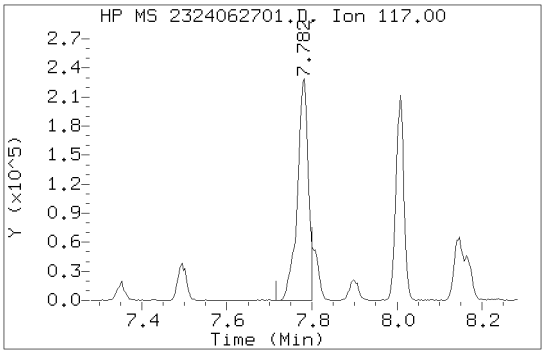
Pentachloroethane (76-01-7)

Reason Code: MP

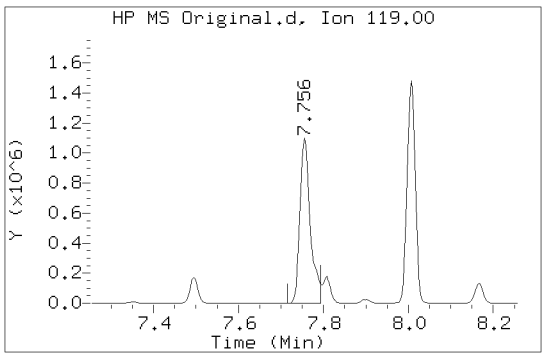
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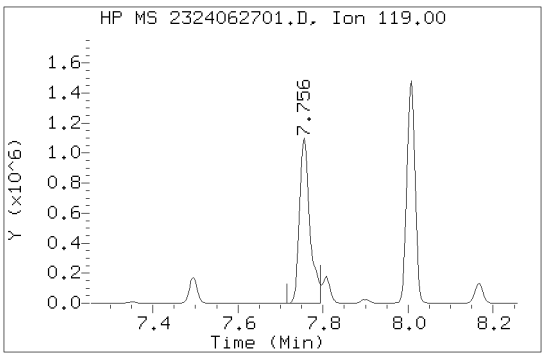
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BEFORE
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AFTER
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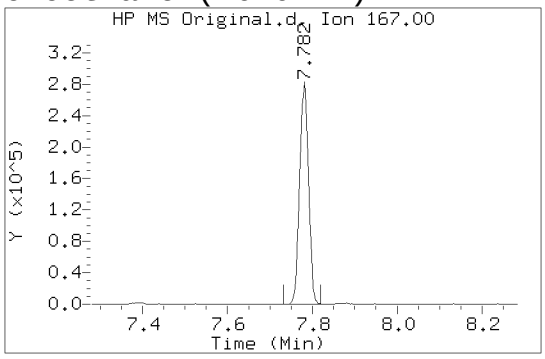


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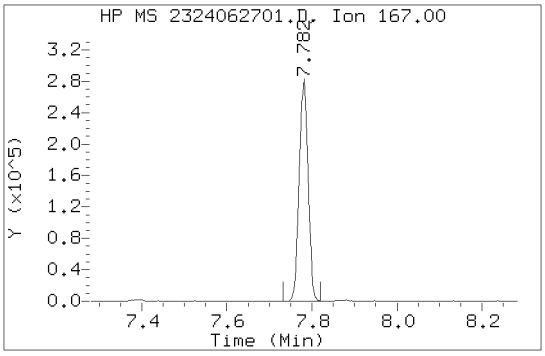
Pentachloroethane (76-01-7)

Reason Code: MP

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27-Jun-2024
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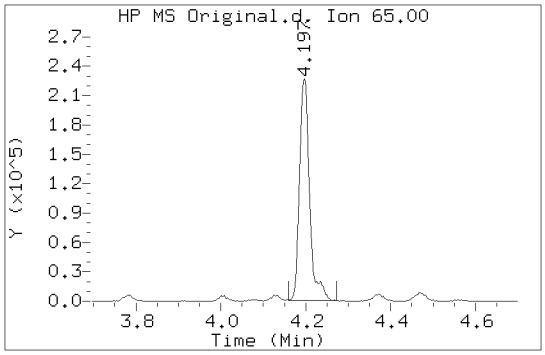
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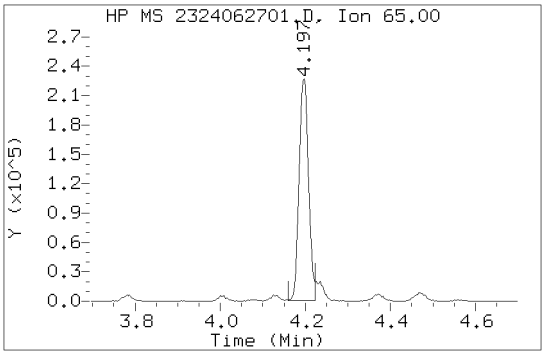
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Reason Code: MP

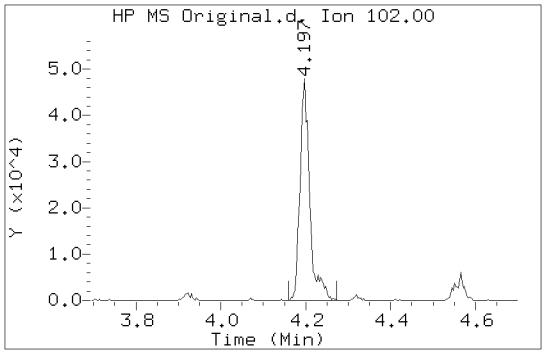
BEFORE
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27-Jun-2024
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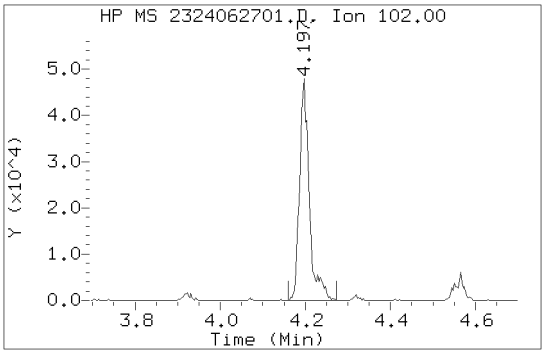
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28-Jun-2024
11:18



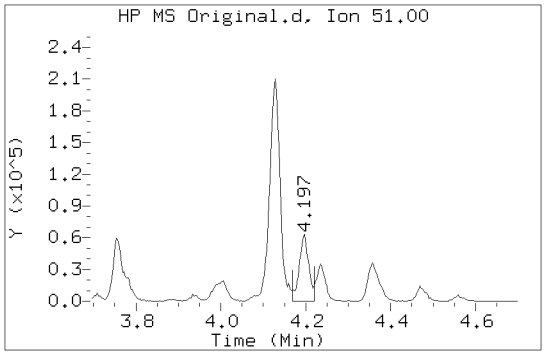
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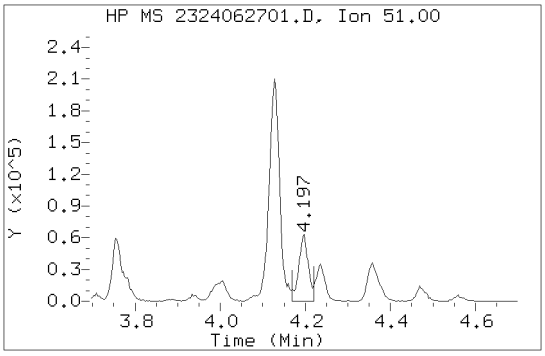
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BEFORE
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62769
27-Jun-2024
08:56



AFTER
MASS
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28-Jun-2024
11:18



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 08:44
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062702.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062702.D
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Inj Date : 27-JUN-2024 09:34
Operator : ILY Inst ID: ms23.i
Smp Info : 3845269;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
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Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.629	1.632	(0.374)	256724	18.3124	18.3124	
2 Chloromethane	50	1.785	1.788	(0.410)	163879	19.1332	19.1332	
3 Vinyl Chloride	62	1.849	1.852	(0.424)	173845	20.6038	20.6038	
4 Bromomethane	94	2.072	2.075	(0.476)	126320	19.7934	19.7934	
5 Chloroethane	64	2.138	2.150	(0.491)	95577	20.5865	20.5865	
6 Pentane	41	2.237	2.245	(0.514)	108896	19.1839	19.1839	
7 Trichlorofluoromethane	101	2.242	2.251	(0.515)	339220	18.8840	18.8840	
8 Dichlorofluoromethane	67	2.274	2.280	(0.522)	326407	21.5254	21.5254	
9 Ethyl Ether	74	2.439	2.439	(0.560)	99892	21.1001	21.1001	
10 1,1-Dichloroethene	61	2.575	2.578	(0.591)	226845	21.1829	21.1829	
12 Carbon Disulfide	76	2.616	2.619	(0.601)	447868	21.5612	21.5612	
11 Freon 113	101	2.590	2.593	(0.595)	156496	21.4835	21.4835	
13 Iodomethane	127	2.674	2.677	(0.614)	86399	21.3388	21.3388	
14 Acrolein	56	2.761	2.761	(0.634)	222957	165.578	165.578	
16 3-Chloro-1-propene	41	2.845	2.851	(0.653)	176176	21.6619	21.6619	
15 Isopropyl Alcohol	45	2.827	2.825	(0.649)	51865	92.0716	92.0716	
17 Methylene Chloride	84	2.906	2.909	(0.667)	168713	21.7406	21.7406	
18 Acetone	58	2.917	2.920	(0.670)	86916	121.497	121.497	
19 Methyl acetate	74	2.984	2.981	(0.685)	32848	18.2393	18.2393	
20 trans-1,2-Dichloroethene	61	3.001	3.004	(0.689)	213071	21.7025	21.7025	
21 Hexane	57	3.045	3.045	(0.699)	290755	19.9693	19.9693	
22 Methyl t-Butyl Ether	73	3.050	3.047	(0.700)	573024	21.8658	21.8658	

Data File: 2324062702.D
Report Date: 28-Jun-2024 11:18

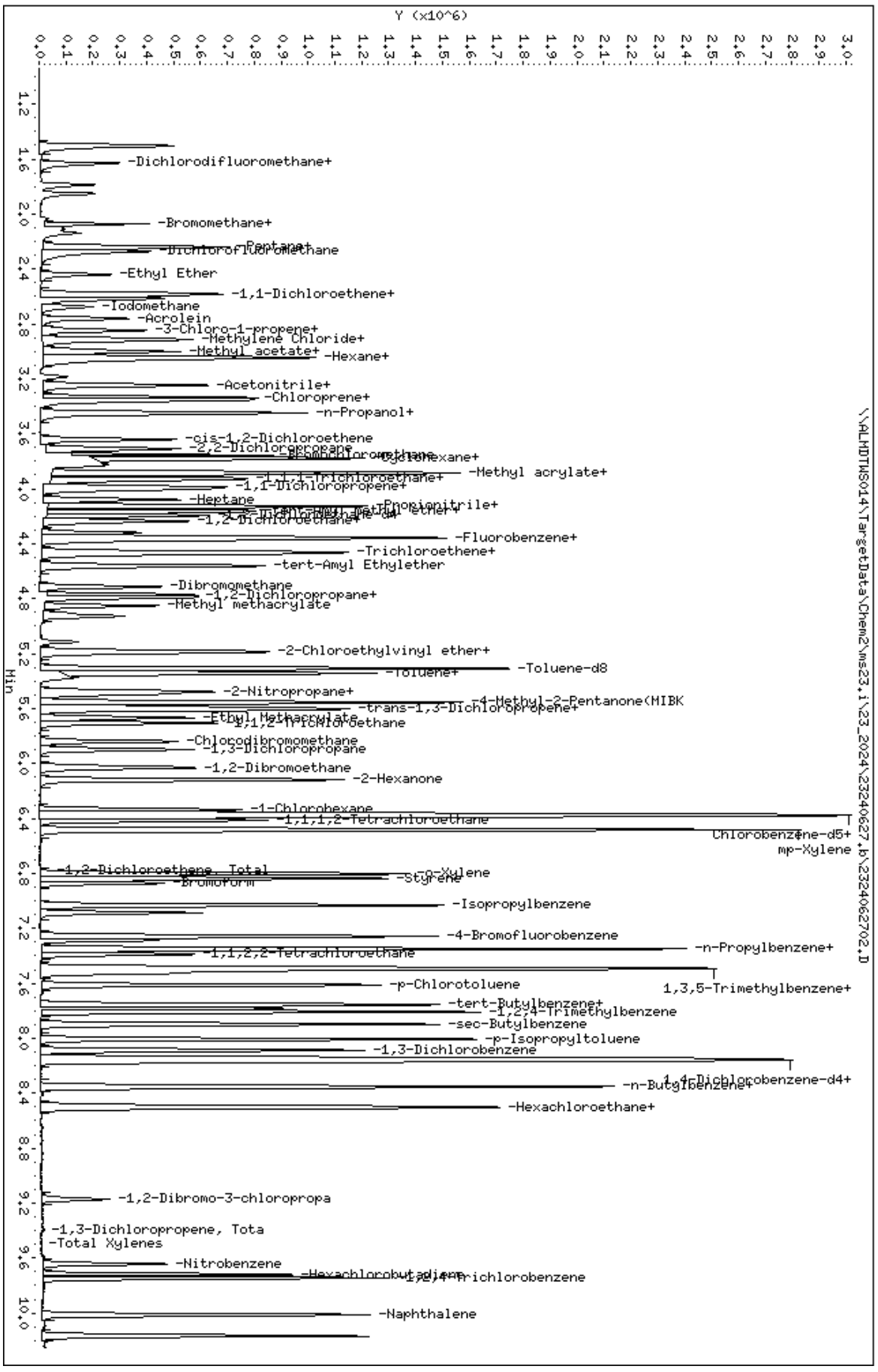
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	3.071	3.065	(0.705)	107082	98.0852	98.0852	
	24 Acetonitrile	41	3.183	3.184	(0.731)	85655	103.962	103.962	
	25 Diisopropyl ether	45	3.244	3.244	(0.745)	400368	22.0865	22.0865	
	26 Chloroprene	53	3.334	3.334	(0.765)	255827	20.3962	20.3962	
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	276371	19.9442	19.9442	
	28 Acrylonitrile	53	3.354	3.354	(0.770)	368689	102.592	102.592(Q)	
	30 n-Propanol	41	3.447	3.447	(0.791)	89278	210.453	210.453(Q)	
	29 Ethyl tert-butyl ether	59	3.447	3.447	(0.791)	529066	20.3672	20.3672	
	31 Vinyl acetate	86	3.447	3.447	(0.791)	42528	18.4701	18.4701	
	32 cis-1,2-Dichloroethene	61	3.638	3.641	(0.835)	225707	22.2194	22.2194	
	33 2,2-Dichloropropane	77	3.708	3.708	(0.851)	311057	23.2012	23.2012	
M	100 1,2-Dichloroethene, Total	61				438778	43.9218	43.9218	
	34 Bromochloromethane	128	3.754	3.757	(0.862)	111345	22.7034	22.7034	
	35 Cyclohexane	84	3.780	3.780	(0.868)	247214	21.6985	21.6985	
	36 Chloroform	83	3.780	3.780	(0.868)	359605	21.1049	21.1049	
	37 Ethyl acetate	43	3.815	3.815	(0.876)	154367	20.6136	20.6136	
	38 Methyl acrylate	55	3.835	3.832	(0.880)	150875	19.1036	19.1036	
	39 Carbon Tetrachloride	117	3.890	3.890	(0.893)	292803	19.0787	19.0787(M)	MP
	40 Tetrahydrofuran	42	3.881	3.878	(0.891)	200878	101.501	101.501	
$	41 Dibromofluoromethane	113	3.881	3.881	(0.891)	272606	29.0267	29.0267	
	42 1,1,1-Trichloroethane	97	3.919	3.922	(0.900)	338877	21.7597	21.7597	
	43 2-Butanone	72	3.939	3.936	(0.904)	120583	109.548	109.548	
	44 1,1-Dichloropropene	75	3.985	3.986	(0.915)	236003	21.2890	21.2890	
	45 1-Chlorobutane	41	4.006	4.006	(0.920)	148672	20.6460	20.6460	
	46 Heptane	71	4.078	4.081	(0.936)	112700	22.0021	22.0021	
	48 Propionitrile	54	4.113	4.113	(0.944)	121444	94.8426	94.8426	
	47 Benzene	78	4.127	4.130	(0.947)	630142	21.6592	21.6592	
	49 Methacrylonitrile	67	4.127	4.127	(0.947)	75471	21.2427	21.2427	
	50 tert-amyl methyl Ether	73	4.162	4.162	(0.955)	540678	20.5810	20.5810	
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	354017	29.4450	29.4450	
	54 Isobutyl alcohol	42	4.174	4.168	(0.958)	32435	155.431	155.431(Q)	
	52 1,2-Dichloroethane	62	4.234	4.235	(0.972)	288461	21.0141	21.0141	
	53 tert-Amyl Alcohol	59	4.243	4.237	(0.974)	82634	101.572	101.572	
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	955689	30.0000		
	56 Diisobutylene	57	4.371	4.371	(1.003)	335722	20.2074	20.2074	
	57 Trichloroethene	95	4.457	4.458	(1.023)	184474	20.6987	20.6987	
	58 Methyl cyclohexane	83	4.475	4.472	(0.703)	258720	22.1718	22.1718	
	59 tert-Amyl Ethylether	59	4.562	4.562	(1.047)	373098	21.2121	21.2121	
	60 Dibromomethane	93	4.712	4.712	(1.082)	123979	21.6331	21.6331	
	61 1,2-Dichloropropane	63	4.767	4.773	(1.094)	139911	22.0529	22.0529	
	62 Bromodichloromethane	83	4.793	4.793	(1.100)	270386	22.1265	22.1265	
	63 Methyl methacrylate	41	4.851	4.851	(1.114)	144649	19.2389	19.2389	
	65 2-Chloroethylvinyl ether	63	5.115	5.115	(1.174)	46966	16.2417	16.2417	
	66 cis-1,3-Dichloropropene	75	5.178	5.181	(0.814)	292485	20.5309	20.5309	
	67 Octane	85	5.193	5.196	(0.816)	107161	23.4835	23.4835	
$	68 Toluene-d8	98	5.309	5.309	(0.834)	980155	30.0629	30.0629	
	69 Toluene	92	5.343	5.343	(0.839)	444853	22.2261	22.2261	
	70 Chloroacetonitrile	75	5.381	5.375	(0.845)	59249	95.7414	95.7414	
	71 2-Nitropropane	41	5.474	5.474	(0.860)	309379	91.7206	91.7206	
	72 1,1-Dichloro-2-propanone	63	5.497	5.497	(0.864)	27009	95.7672	95.7672	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.555	5.552	(0.873)	746471	102.519	102.519	
	75 trans-1,3-Dichloropropene	75	5.592	5.592	(0.879)	312030	21.1812	21.1812	
	74 Tetrachloroethene	164	5.610	5.607	(0.881)	186730	21.4609	21.4609	
	76 Ethyl methacrylate	69	5.665	5.665	(0.890)	241205	20.0077	20.0077	

Data File: 2324062702.D
Report Date: 28-Jun-2024 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.705	5.703	(0.896)	133097	22.4098	22.4098	
	78 Chlorodibromomethane	129	5.839	5.839	(0.917)	242751	20.2685	20.2685	
	79 1,3-Dichloropropane	76	5.899	5.899	(0.927)	282087	22.6407	22.6407	
	80 1,2-Dibromoethane	107	6.021	6.021	(0.946)	190886	21.9537	21.9537	
	81 2-Hexanone	43	6.119	6.117	(0.961)	549277	102.365	102.365	
	82 1-Chlorohexane	91	6.334	6.334	(0.995)	231263	22.1336	22.1336	
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	409041	30.0000		
	85 Ethylbenzene	106	6.383	6.380	(1.003)	271692	22.4272	22.4272	
	84 Chlorobenzene	112	6.377	6.377	(1.002)	530312	23.0667	23.0667	
	86 1,1,1,2-Tetrachloroethane	131	6.412	6.415	(1.007)	219565	23.2807	23.2807	
	87 mp-Xylene	106	6.481	6.481	(1.018)	678465	46.3219	46.3219	
M	120 1,3-Dichloropropene, Total	75				604515	41.7121	41.7121	
	88 o-Xylene	106	6.803	6.800	(1.069)	337605	23.4485	23.4485	
	89 Styrene	104	6.837	6.837	(0.840)	567868	22.1691	22.1691	
	90 Bromoform	173	6.872	6.869	(0.844)	180021	19.9472	19.9472	
	91 Isopropylbenzene	105	7.034	7.031	(0.864)	873434	23.9396	23.9396	
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	392189	29.4455	29.4455	
M	121 TOTAL XYLENES	106				1016070	69.7704	69.7704	
	94 n-Propylbenzene	120	7.350	7.350	(0.903)	244401	22.5689	22.5689	
	93 Bromobenzene	156	7.350	7.350	(0.903)	254276	22.2339	22.2339	
	95 1,1,2,2-Tetrachloroethane	83	7.388	7.388	(0.907)	216922	22.9360	22.9360	
	97 1,3,5-Trimethylbenzene	105	7.495	7.495	(0.920)	751509	23.5377	23.5377	
	96 o-Chlorotoluene	91	7.486	7.486	(0.919)	682330	23.1031	23.1031	
	98 1,2,3-Trichloropropane	110	7.512	7.506	(0.922)	85588	21.3336	21.3336	
	99 trans-1,4-Dichloro-2-butene	53	7.527	7.527	(0.924)	71875	19.3634	19.3634(Q)	
	101 p-Chlorotoluene	91	7.613	7.611	(0.935)	631247	23.1167	23.1167	
	102 tert-Butylbenzene	134	7.758	7.755	(0.953)	180131	22.5313	22.5313	
	103 Pentachloroethane	117	7.778	7.781	(0.955)	158249	21.1079	21.1079(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.807	7.807	(0.959)	762216	23.5056	23.5056	
	105 sec-Butylbenzene	105	7.900	7.897	(0.970)	884967	23.2786	23.2786	
	106 p-Isopropyltoluene	134	8.007	8.007	(0.983)	212602	23.1526	23.1526	
	107 1,3-Dichlorobenzene	146	8.085	8.088	(0.993)	458702	22.7631	22.7631	
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	460396	30.0000		
	109 1,4-Dichlorobenzene	146	8.158	8.158	(1.002)	468509	22.6809	22.6809	
	111 n-Butylbenzene	134	8.355	8.355	(1.026)	199585	23.4848	23.4848(Q)	
	110 Benzyl Chloride	126	8.346	8.349	(1.025)	105640	21.3095	21.3095(Q)	
	112 Hexachloroethane	117	8.494	8.497	(1.043)	150974	21.0038	21.0038	
	113 1,2-Dichlorobenzene	146	8.508	8.505	(1.045)	452439	23.1282	23.1282	
	114 1,2-Dibromo-3-chloropropane	75	9.171	9.174	(1.126)	53666	20.5717	20.5717	
	115 Nitrobenzene	77	9.643	9.640	(1.184)	191748	183.350	183.350	
	116 Hexachlorobutadiene	225	9.718	9.718	(1.193)	162758	24.1866	24.1866	
	117 1,2,4-Trichlorobenzene	180	9.747	9.744	(1.197)	341398	25.2227	25.2227	
	118 Naphthalene	128	10.014	10.014	(1.230)	814520	21.5808	21.5808	
	119 1,2,3-Trichlorobenzene	180	10.167	10.167	(1.249)	313547	23.4100	23.4100	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\ALMDTWS014\TargetData\Chem2\ms23,i\23_2024\232406270 2.b\232406270 2.D
Date : 27-JUN-2024 09:34
Client ID: LCS for HBN 1235282
Sample Info: 384526;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

Page 1

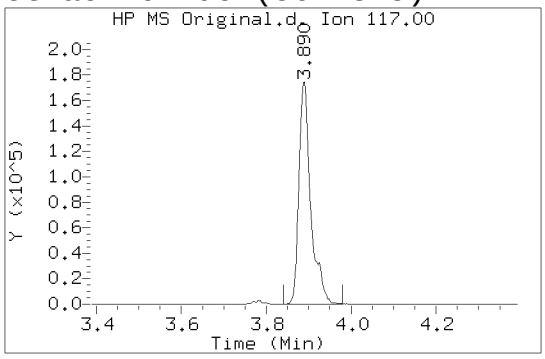
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Inj Date : 27-JUN-2024 09:34
InstruID : ms23.i
LabSampID : 3845269

Carbon Tetrachloride (56-23-5)

Reason Code: MP

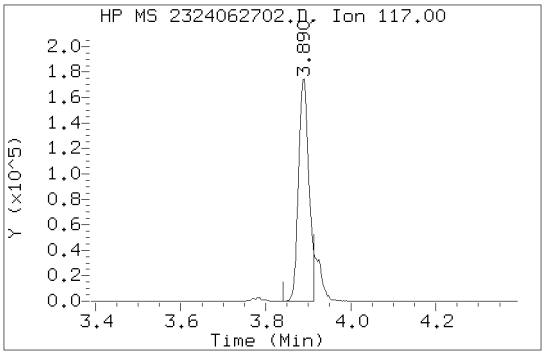
BEFORE

MASS
117
AREA
333525
HEIGHT
174592
27-Jun-2024
10:11



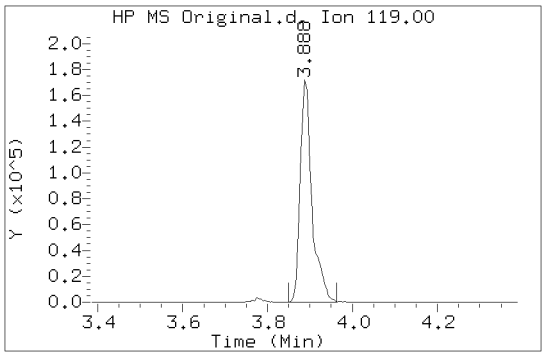
AFTER

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117
AREA
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HEIGHT
174592
28-Jun-2024
11:18



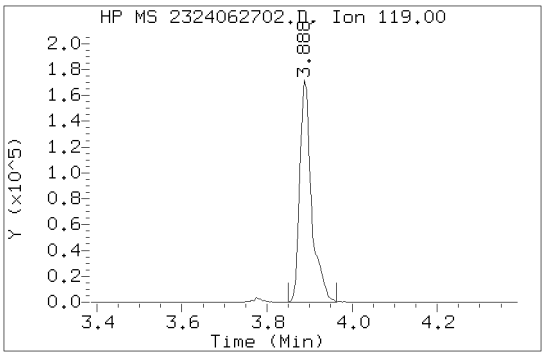
BEFORE

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AREA
325704
HEIGHT
171751
27-Jun-2024
10:11



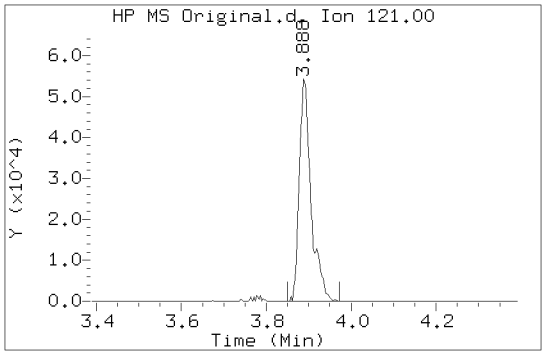
AFTER

MASS
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AREA
325704
HEIGHT
171751
28-Jun-2024
11:18



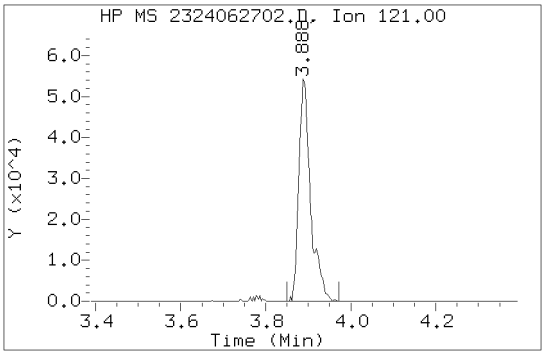
BEFORE

MASS
121
AREA
103412
HEIGHT
54312
27-Jun-2024
10:11



AFTER

MASS
121
AREA
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54312
28-Jun-2024
11:18

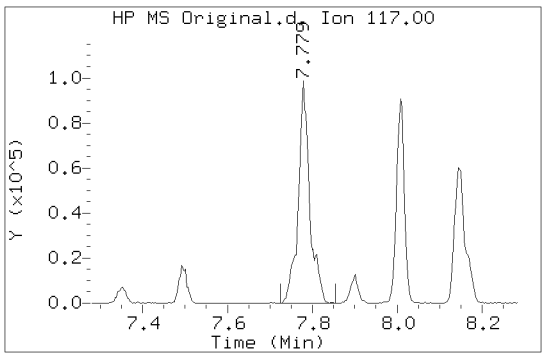


Pentachloroethane (76-01-7)

Reason Code: MP

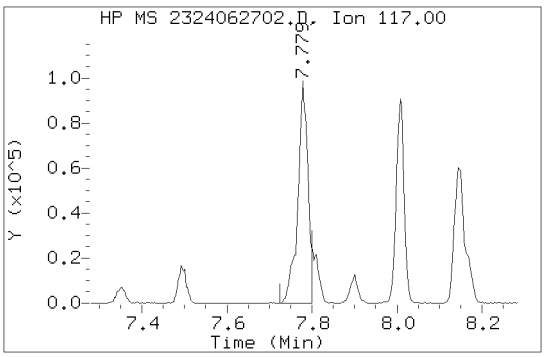
BEFORE

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117
AREA
182039
HEIGHT
98680
27-Jun-2024
10:11



AFTER

MASS
117
AREA
158249
HEIGHT
98680
28-Jun-2024
11:18



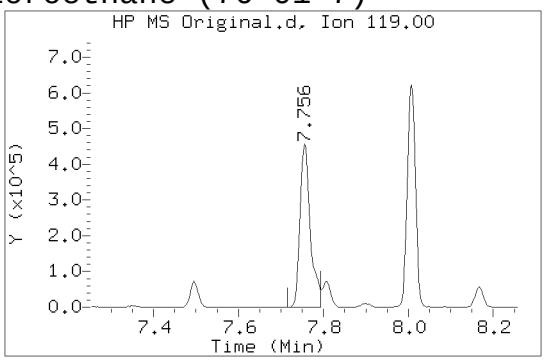
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Inj Date : 27-JUN-2024 09:34
InstruID : ms23.i
LabSampID : 3845269

Pentachloroethane (76-01-7)

Reason Code: MP

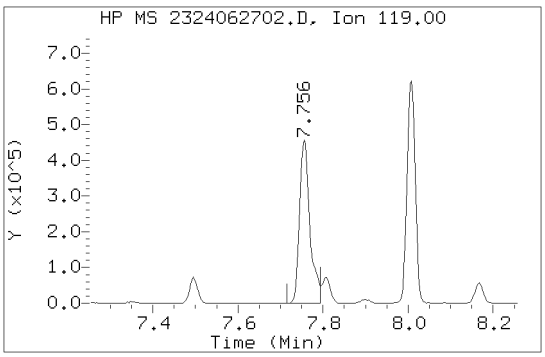
BEFORE

MASS
119
AREA
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HEIGHT
457600
27-Jun-2024
10:11



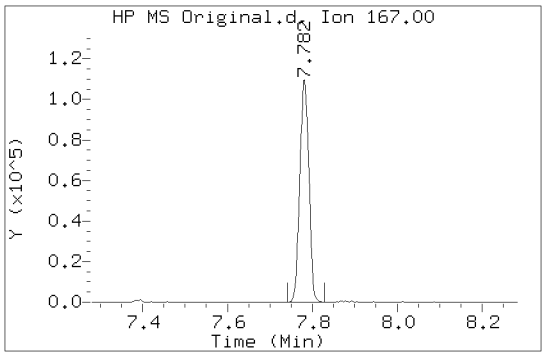
AFTER

MASS
119
AREA
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HEIGHT
457600
28-Jun-2024
11:18



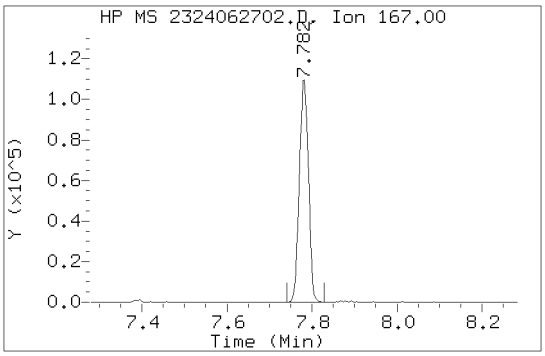
BEFORE

MASS
167
AREA
159905
HEIGHT
109592
27-Jun-2024
10:11



AFTER

MASS
167
AREA
159905
HEIGHT
109592
28-Jun-2024
11:18



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID: LCS for HBN 1235282
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 09:34
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2324062705.D Page 1
Report Date: 28-Jun-2024 11:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062705.D
Lab Smp Id: 3845268 Client Smp ID: MB for HBN 1235282
Inj Date : 27-JUN-2024 10:53
Operator : ILY Inst ID: ms23.i
Smp Info : 3845268;;1;3;;MB;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062705.D Page 2
Report Date: 28-Jun-2024 11:18

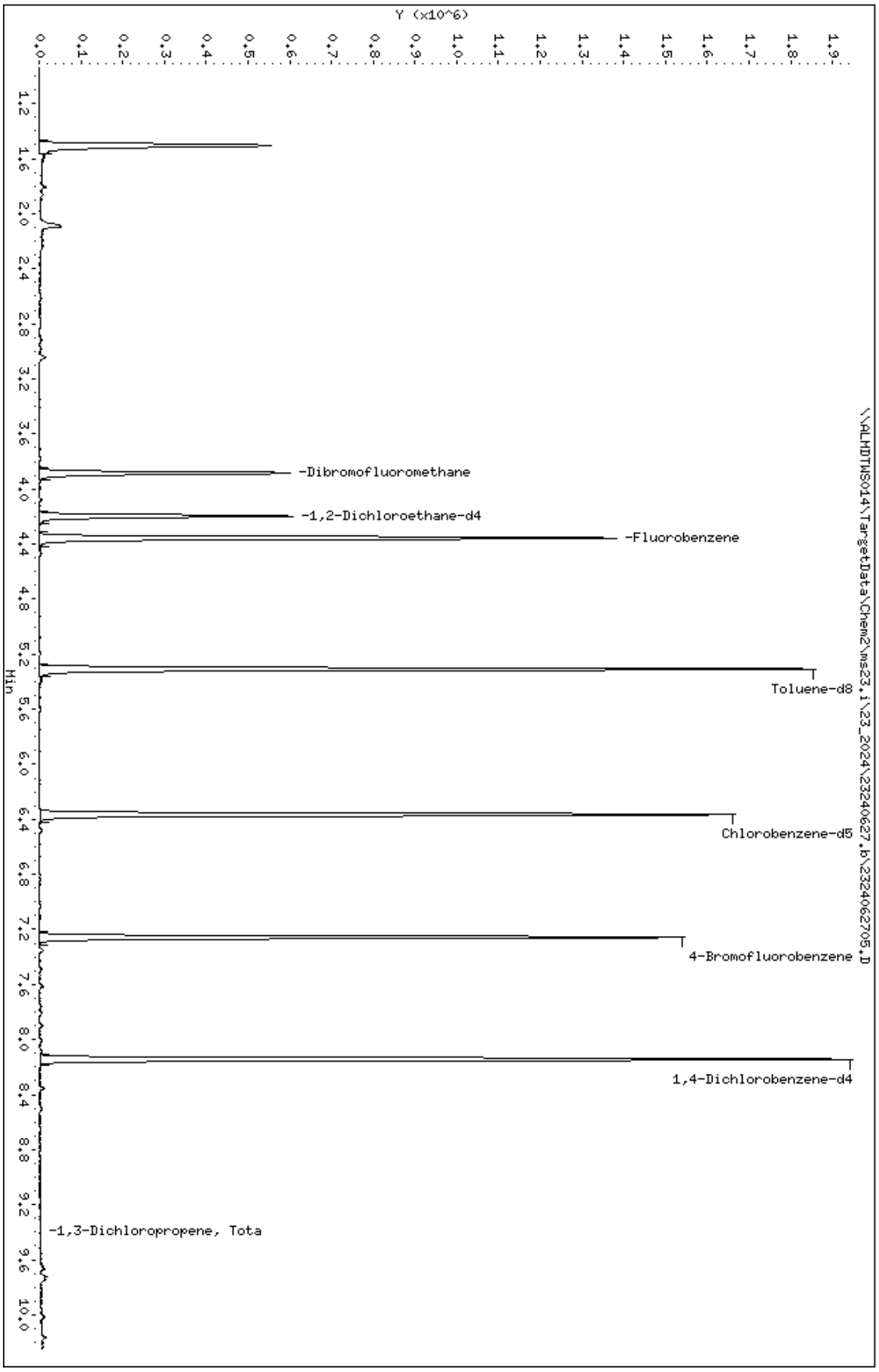
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	280197	29.0572	29.0572	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	361539	29.2868	29.2868	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	981269	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	1016748	29.4475	29.4475	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062705.D Page 3
Report Date: 28-Jun-2024 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	433179	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	403255	29.1059	29.1059	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	478909	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062705.D
Date : 27-JUN-2024 10:53
Client ID: MB for HBN 1235282
Sample Info: 3845268;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062705.D
Inj Date : 27-JUN-2024 10:53
InstruID : ms23.i
LabSampID : 3845268

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:18
Client ID: MB for HBN 1235282
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 10:53
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
1,2-Dichloropropane
Ethyl methacrylate
Methacrylonitrile
2-Nitropropane
1-Chlorohexane
1,3-Dichloropropane
cis-1,3-Dichloropropene
Heptane
Methyl methacrylate

Data File: 2324062706.D Page 1
Report Date: 28-Jun-2024 11:21

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062706.D
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Inj Date : 27-JUN-2024 12:50
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028010;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	2.254	2.251	(0.517)	49459	2.69475	2.69475	
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062706.D
Report Date: 28-Jun-2024 11:21

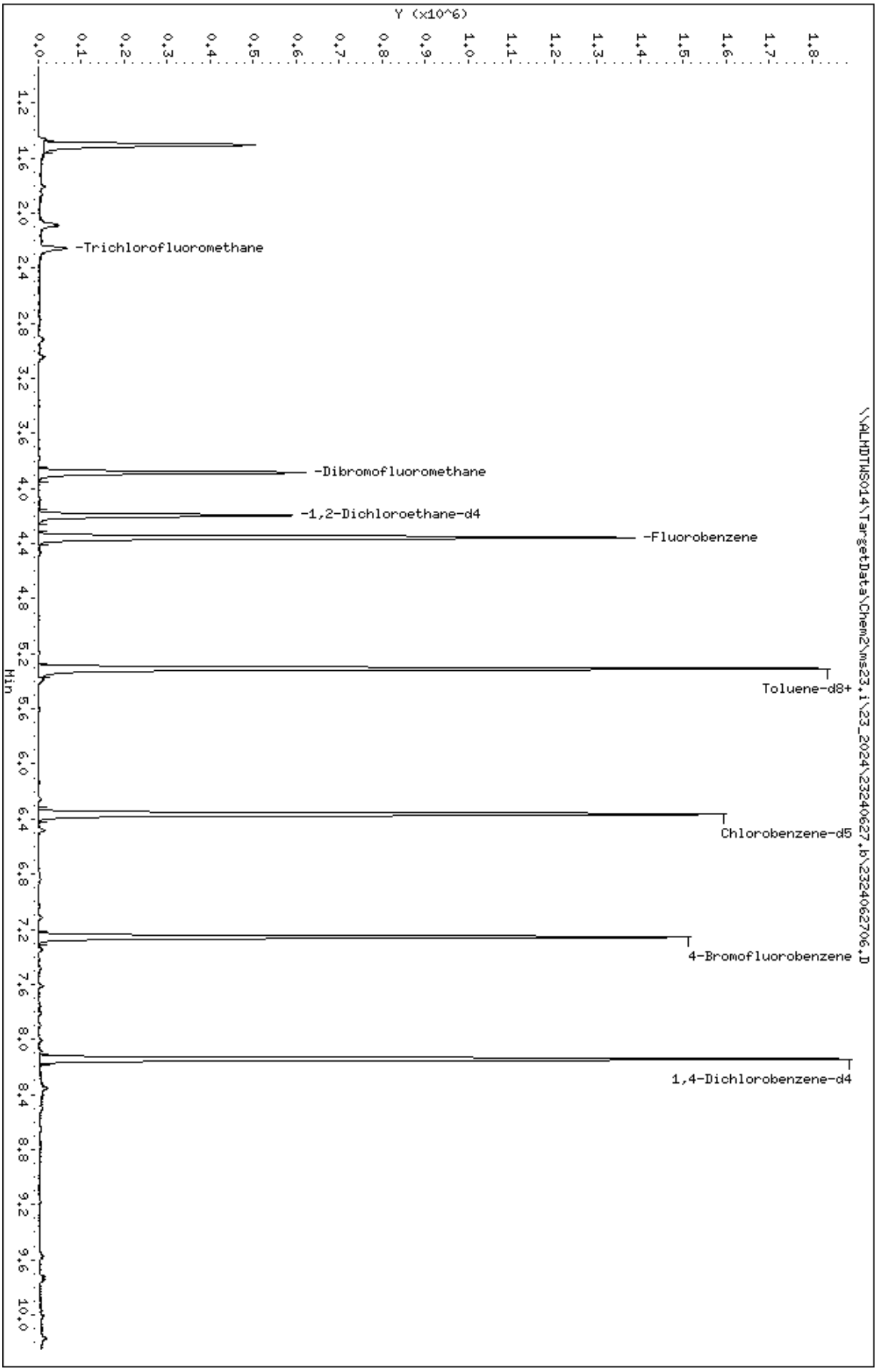
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	279326	29.1094	29.1094	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.196	4.197	(0.963)	366064	29.7992	29.7992	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	976465	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.308	5.309	(0.834)	1024166	30.9600	30.9600	
	69 Toluene	92	5.343	5.343	(0.839)	6033	0.29708	0.297082(a)	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062706.D Page 3
Report Date: 28-Jun-2024 11:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	415022	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	402697	30.5141	30.5141	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	456177	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062706.D
Date : 27-JUN-2024 12:50
Client ID: HS24060985-11
Sample Info: 336602801O;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062706.D Page 2

Date : 27-JUN-2024 12:50

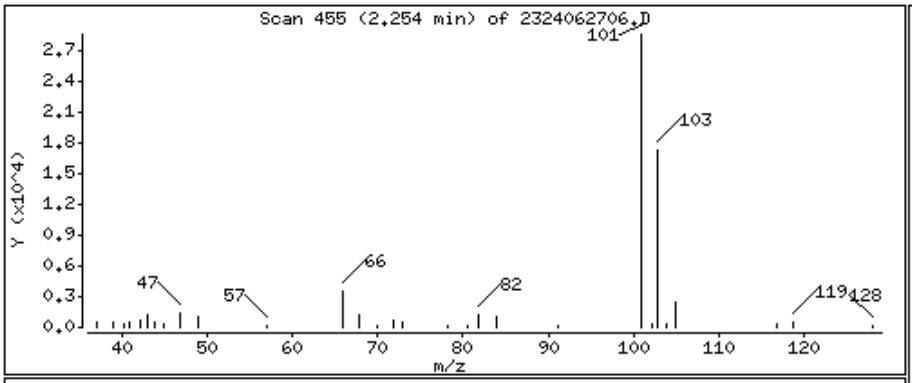
Client ID: HS24060985-11 Instrument: ms23.i

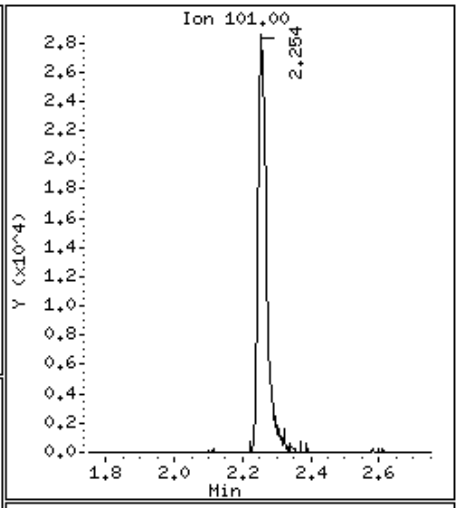
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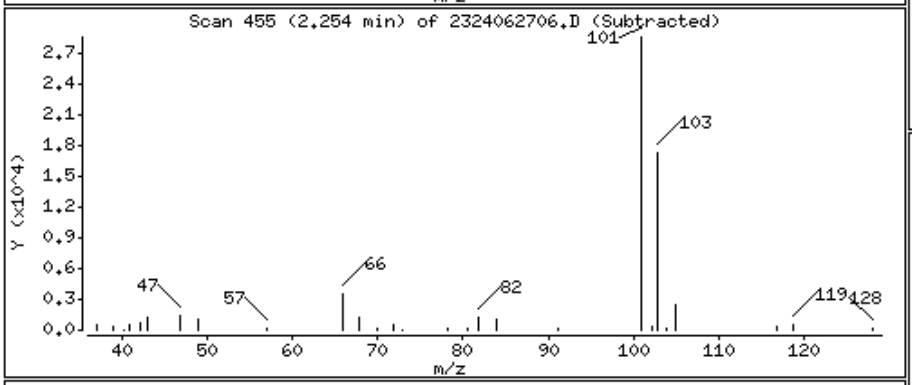
Purge Volume: 5.0 Operator: ILY

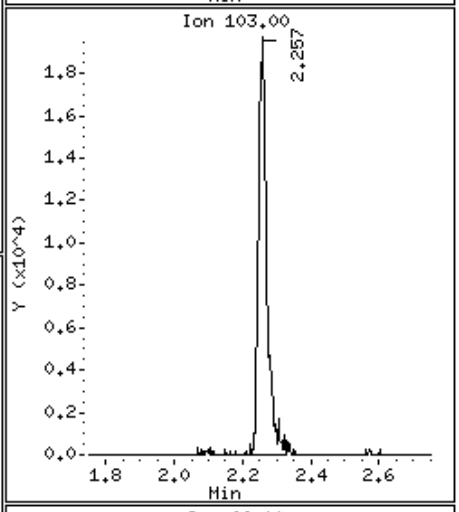
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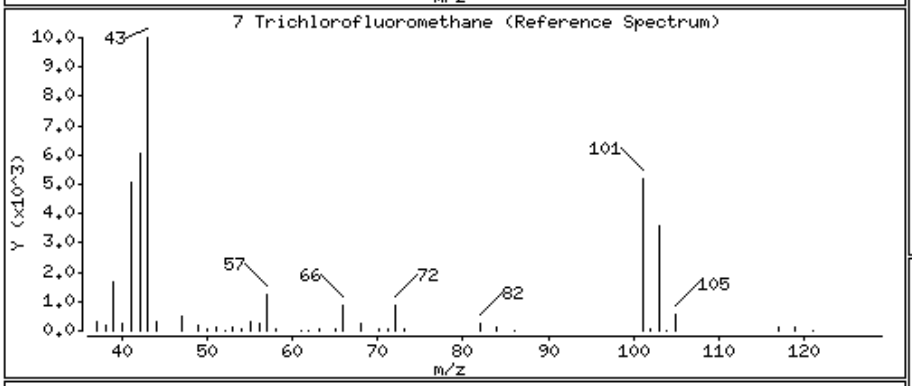
7 Trichlorofluoromethane Concentration: 2.69475 ug/L

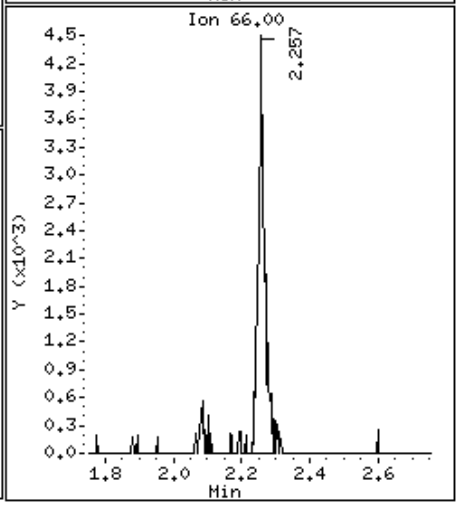


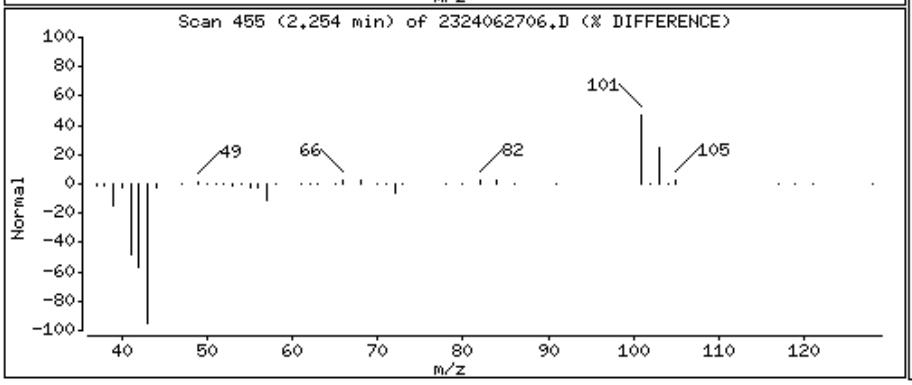












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062706.D Page 3

Date : 27-JUN-2024 12:50

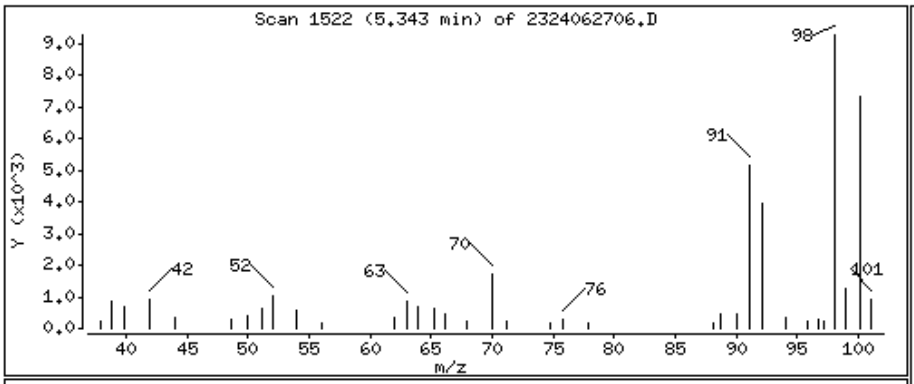
Client ID: HS24060985-11 Instrument: ms23.i

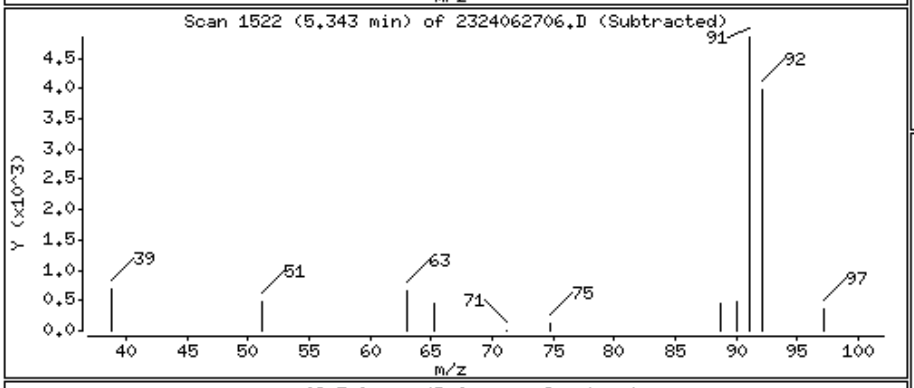
Sample Info: 3366028010;;1;;;;;

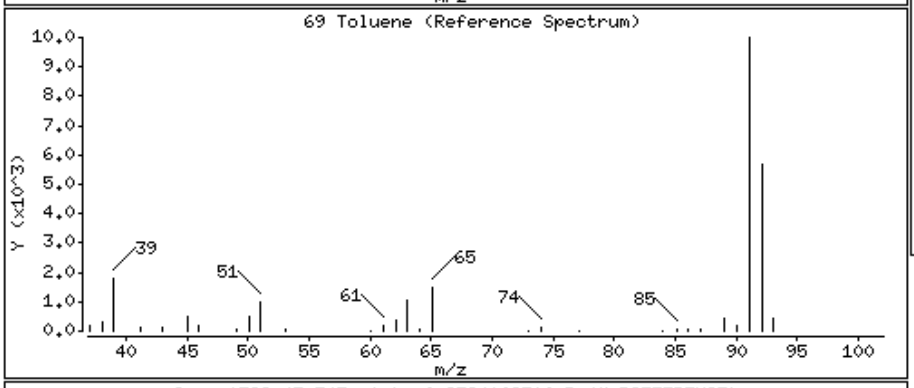
Purge Volume: 5.0 Operator: ILY

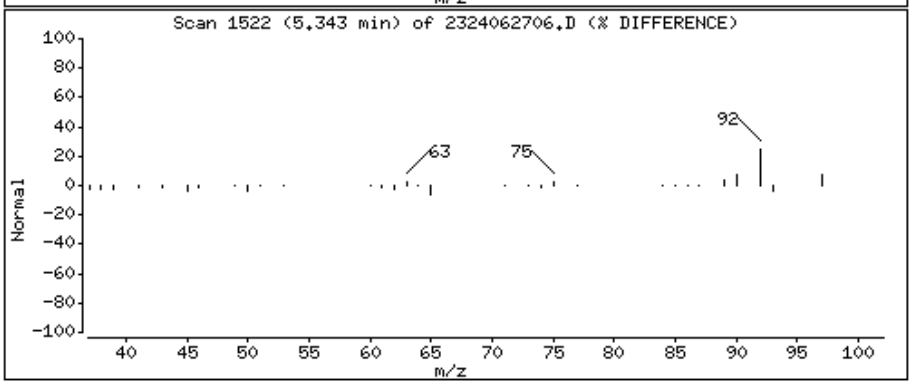
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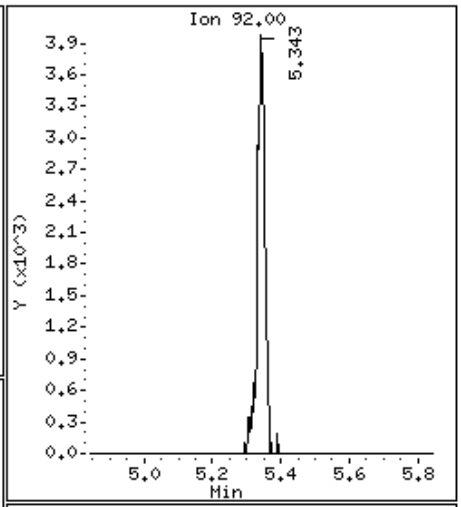
69 Toluene Concentration: 0.297082 ug/L

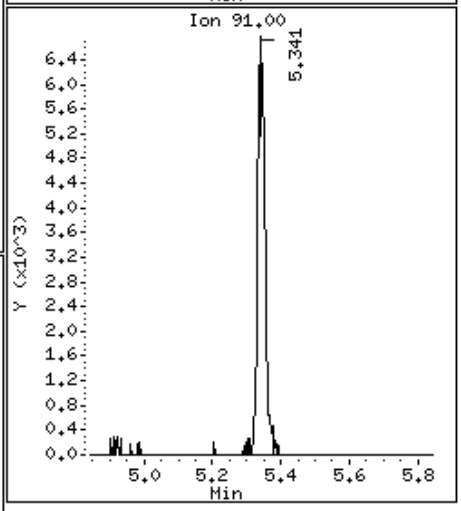












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Inj Date : 27-JUN-2024 12:50
InstruID : ms23.i
LabSampID : 3366028010

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:21
Client ID: HS24060985-11
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406270
Inj Date: 27-JUN-2024 12:50
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorohexane
1,3-Dichloropropane
Heptane
Methyl methacrylate
2-Nitropropane
Styrene
Bromoform
1,2-Dichloroethane
Ethyl methacrylate
2-Hexanone
Methyl acetate
Pentane

Data File: 2324062711.D Page 1
Report Date: 28-Jun-2024 11:26

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062711.D
Lab Smp Id: 3366028001 Client Smp ID: HS24060985-01
Inj Date : 27-JUN-2024 14:30
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028001;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.794	1.788	(0.412)	3799	0.43779	0.437794(a)	
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062711.D Page 2
Report Date: 28-Jun-2024 11:26

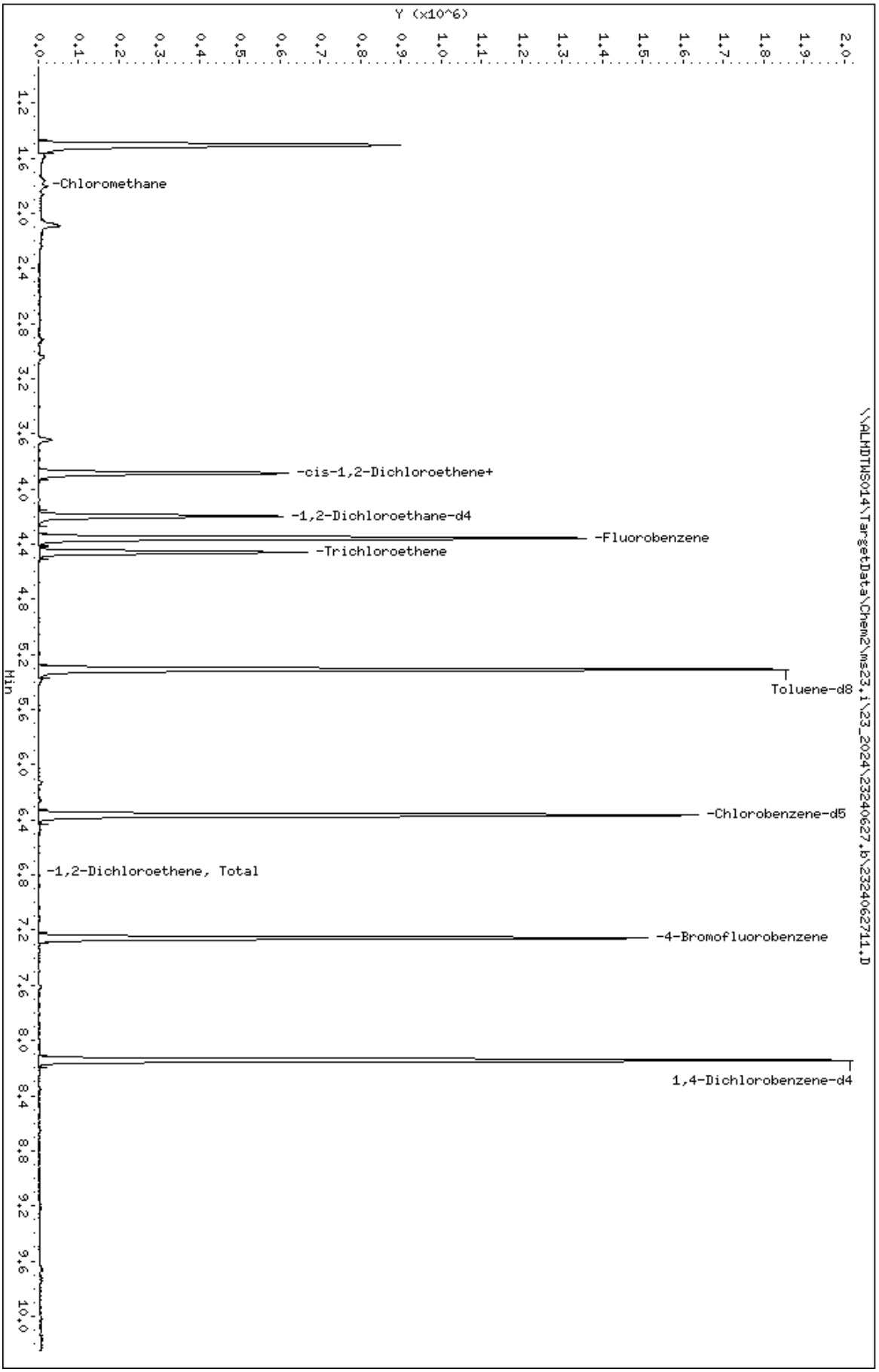
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.644	3.641	(0.837)	14356	1.39494	1.39494	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				14356	1.39494	1.39494(a)	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.887	3.881	(0.892)	283548	29.8005	29.8005	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	370525	30.4187	30.4187	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	968235	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.460	4.458	(1.024)	172204	19.0716	19.0716	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	1034085	30.2205	30.2205	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062711.D Page 3
Report Date: 28-Jun-2024 11:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	429296	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	401524	27.9193	27.9193	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	497120	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms23,i\23_2024\23240627,b\2324062711.D
Date : 27-JUN-2024 14:30
Client ID: HS24060985-01
Sample Info: 336602800l;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23,i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062711.D Page 2

Date : 27-JUN-2024 14:30

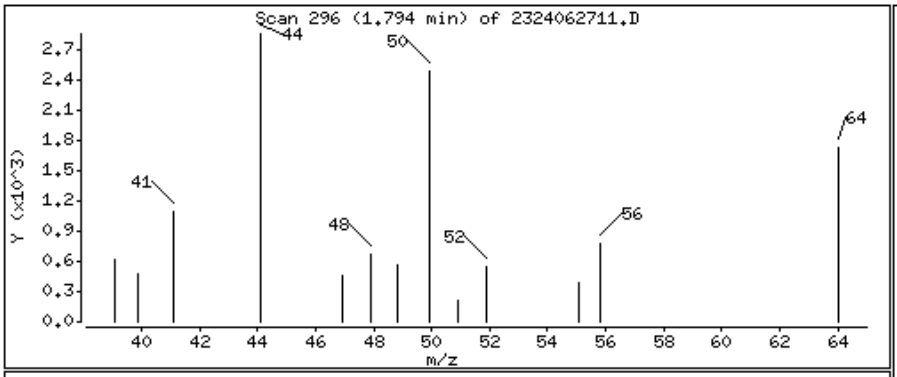
Client ID: HS24060985-01 Instrument: ms23.i

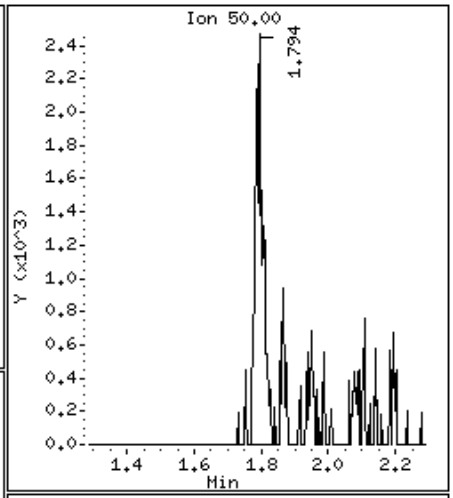
Sample Info: 3366028001;;1;;;;;

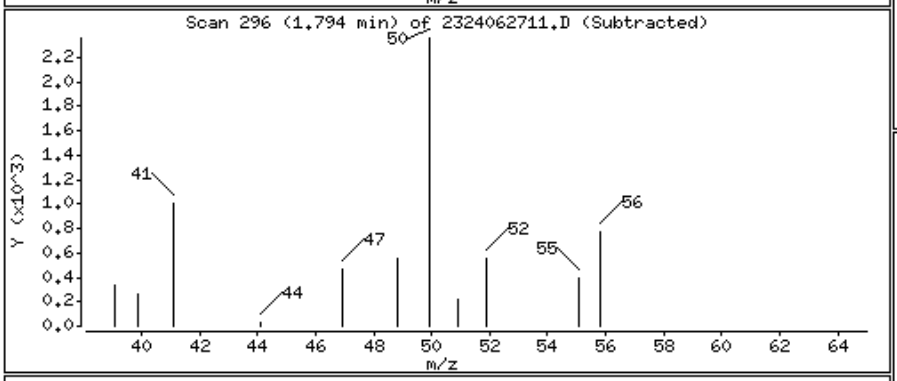
Purge Volume: 5.0 Operator: ILY

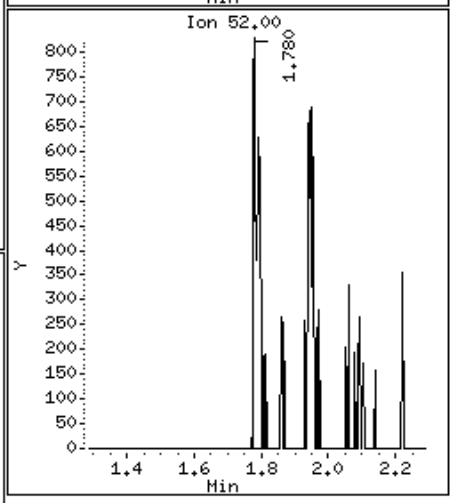
Column phase: DB-VRX Column diameter: 0.25

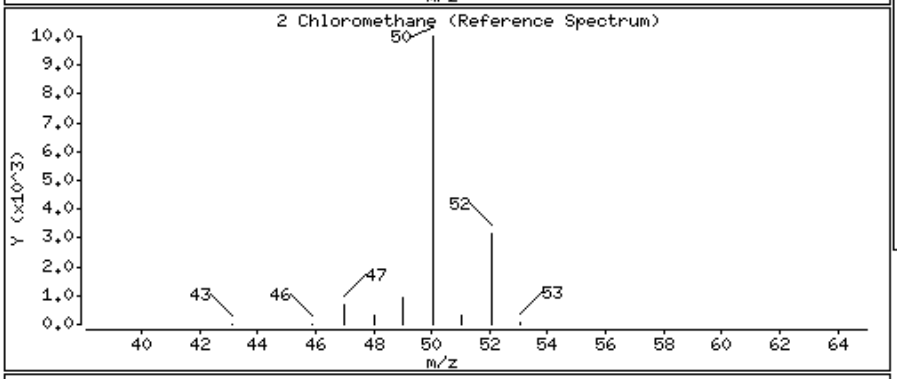
2 Chloromethane Concentration: 0.437794 ug/L

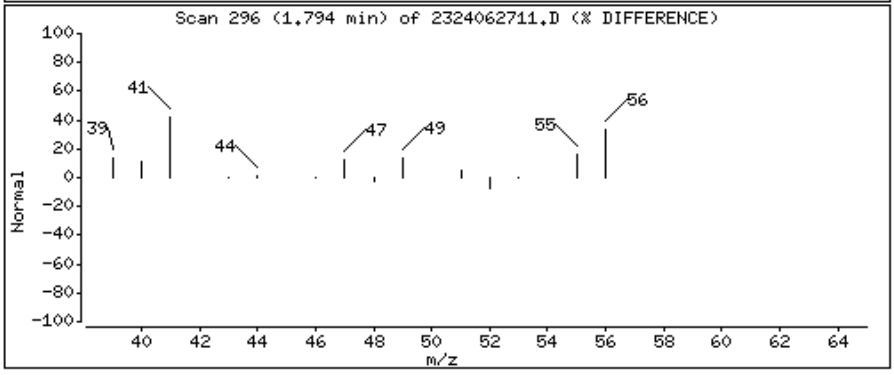












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062711.D Page 3

Date : 27-JUN-2024 14:30

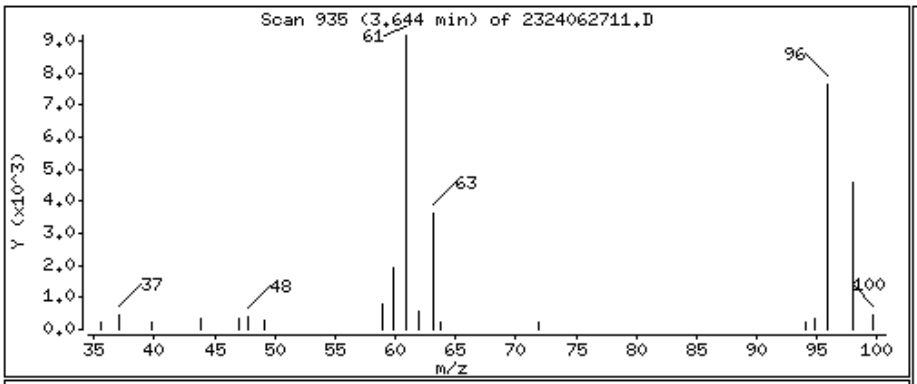
Client ID: HS24060985-01 Instrument: ms23.i

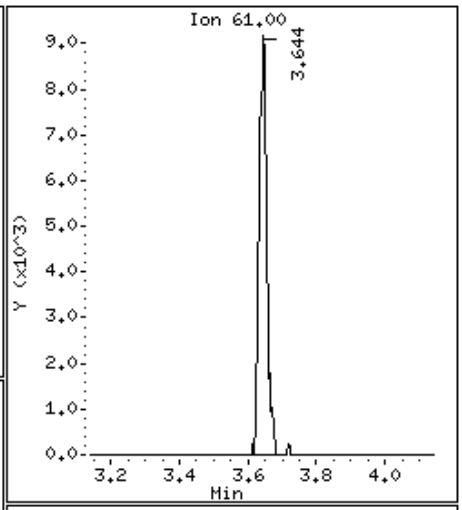
Sample Info: 3366028001;;1;;;;;

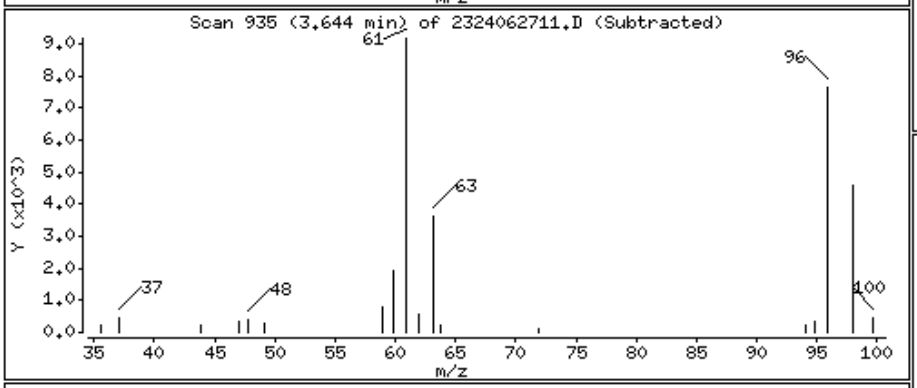
Purge Volume: 5.0 Operator: ILY

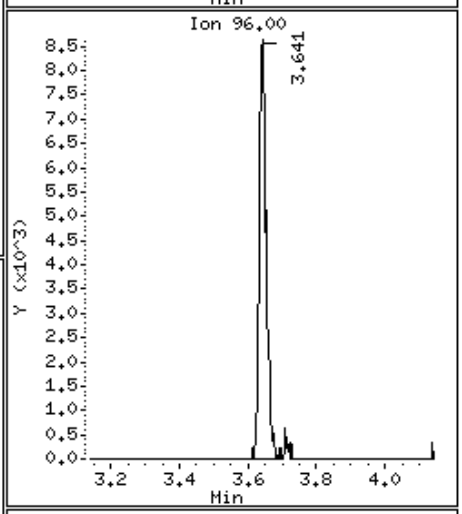
Column phase: DB-VRX Column diameter: 0.25

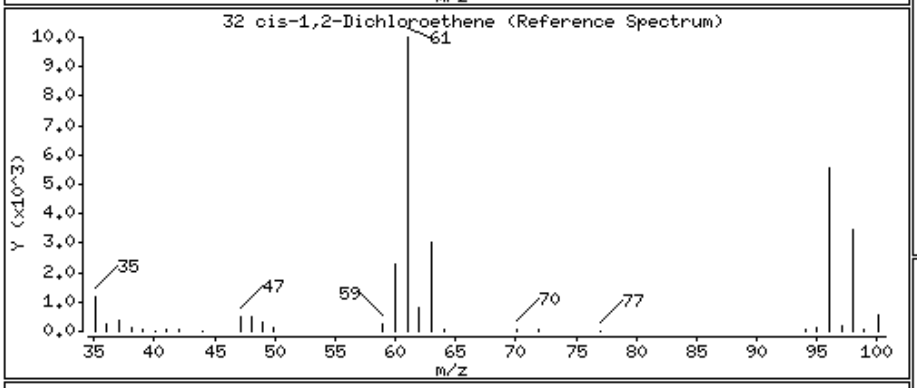
32 cis-1,2-Dichloroethene Concentration: 1.39494 ug/L

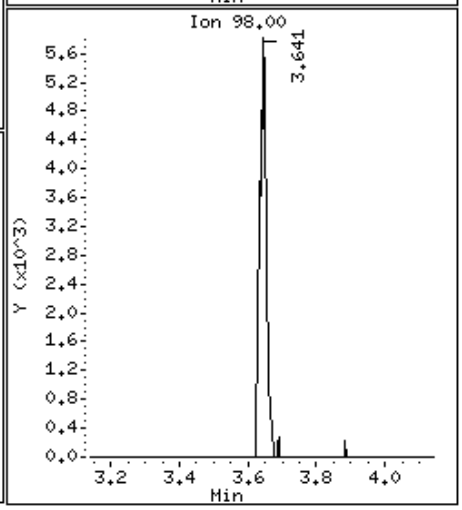


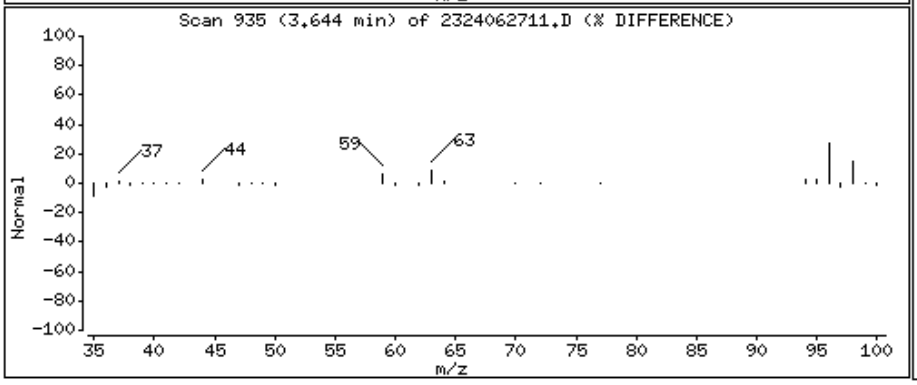












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062711.D Page 4

Date : 27-JUN-2024 14:30

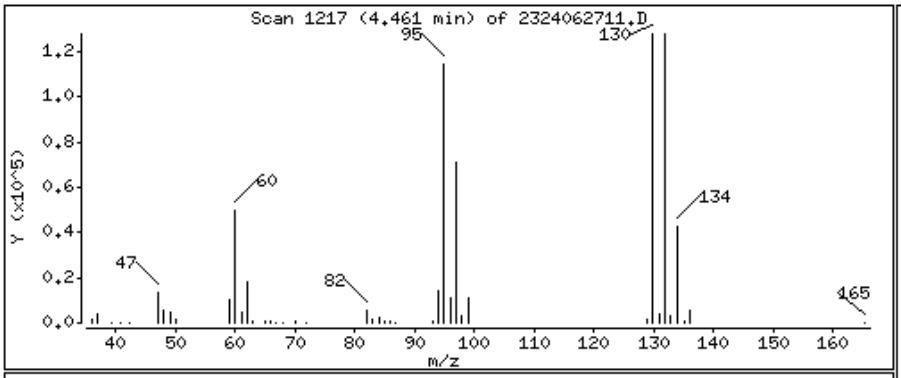
Client ID: HS24060985-01 Instrument: ms23.i

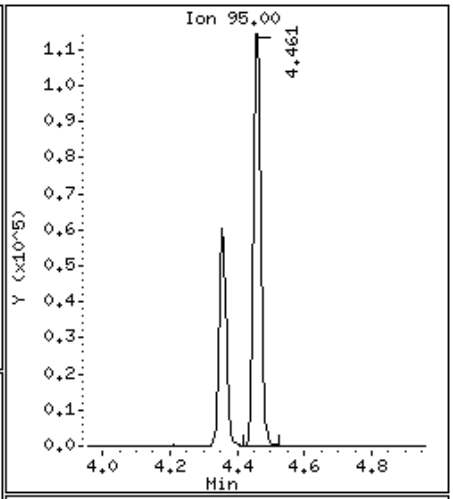
Sample Info: 3366028001;;1;;;;;

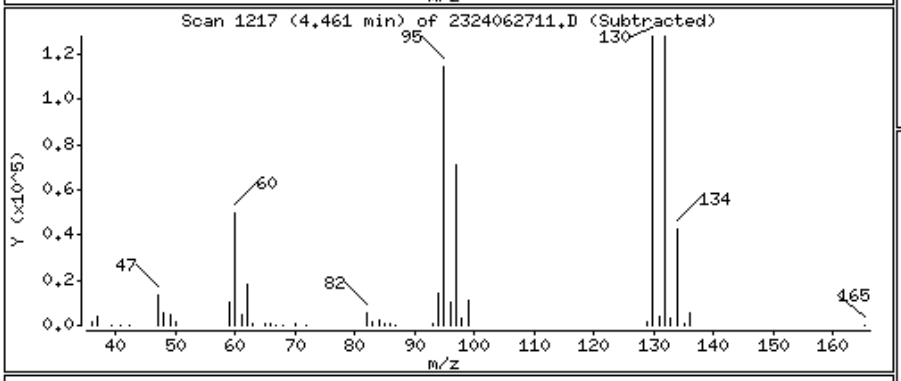
Purge Volume: 5.0 Operator: ILY

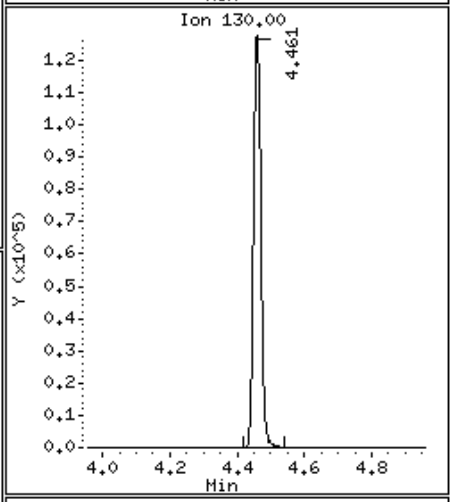
Column phase: DB-VRX Column diameter: 0.25

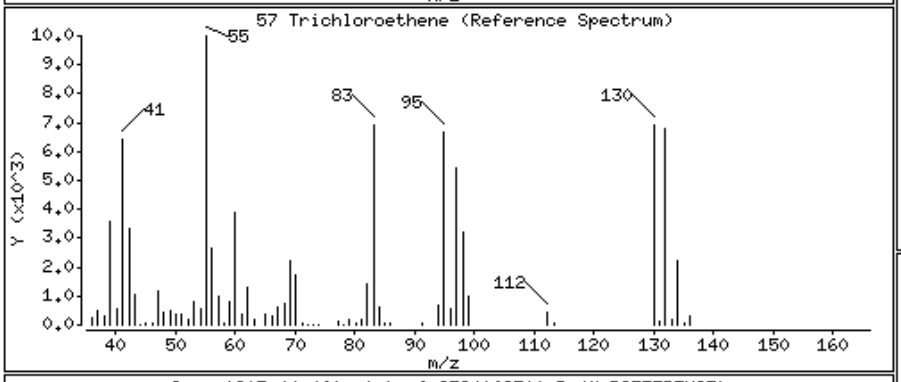
57 Trichloroethene Concentration: 19.0716 ug/L

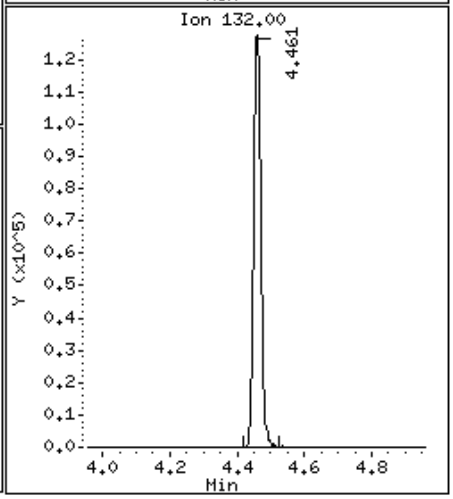


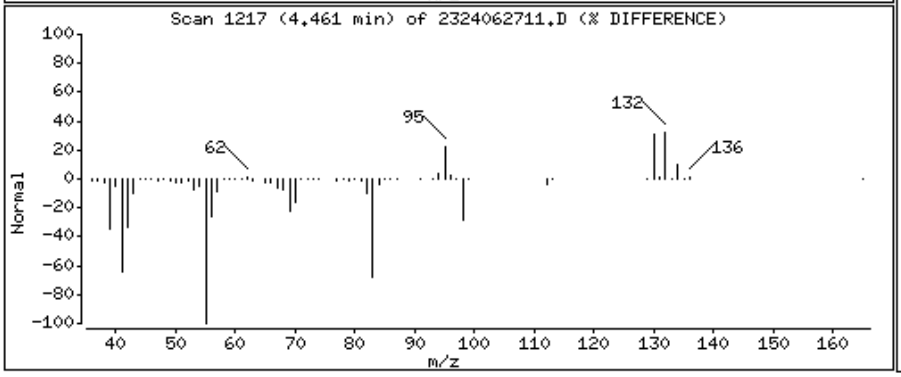












Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062711.D
Inj Date : 27-JUN-2024 14:30
InstruID : ms23.i
LabSampID : 3366028001

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:26
Client ID: HS24060985-01
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 14:30
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
3-Chloro-1-propene
1,3-Dichloropropane
2-Hexanone
Pentane
tert-Amyl Alcohol
1-Chlorohexane
1,2-Dichloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2324062712.D Page 1
Report Date: 28-Jun-2024 11:27

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D
Lab Smp Id: 3366028002 Client Smp ID: HS24060985-02
Inj Date : 27-JUN-2024 14:49
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028002;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.788	1.788	(0.411)	3818	0.44331	0.443308(a)	
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062712.D Page 2
Report Date: 28-Jun-2024 11:27

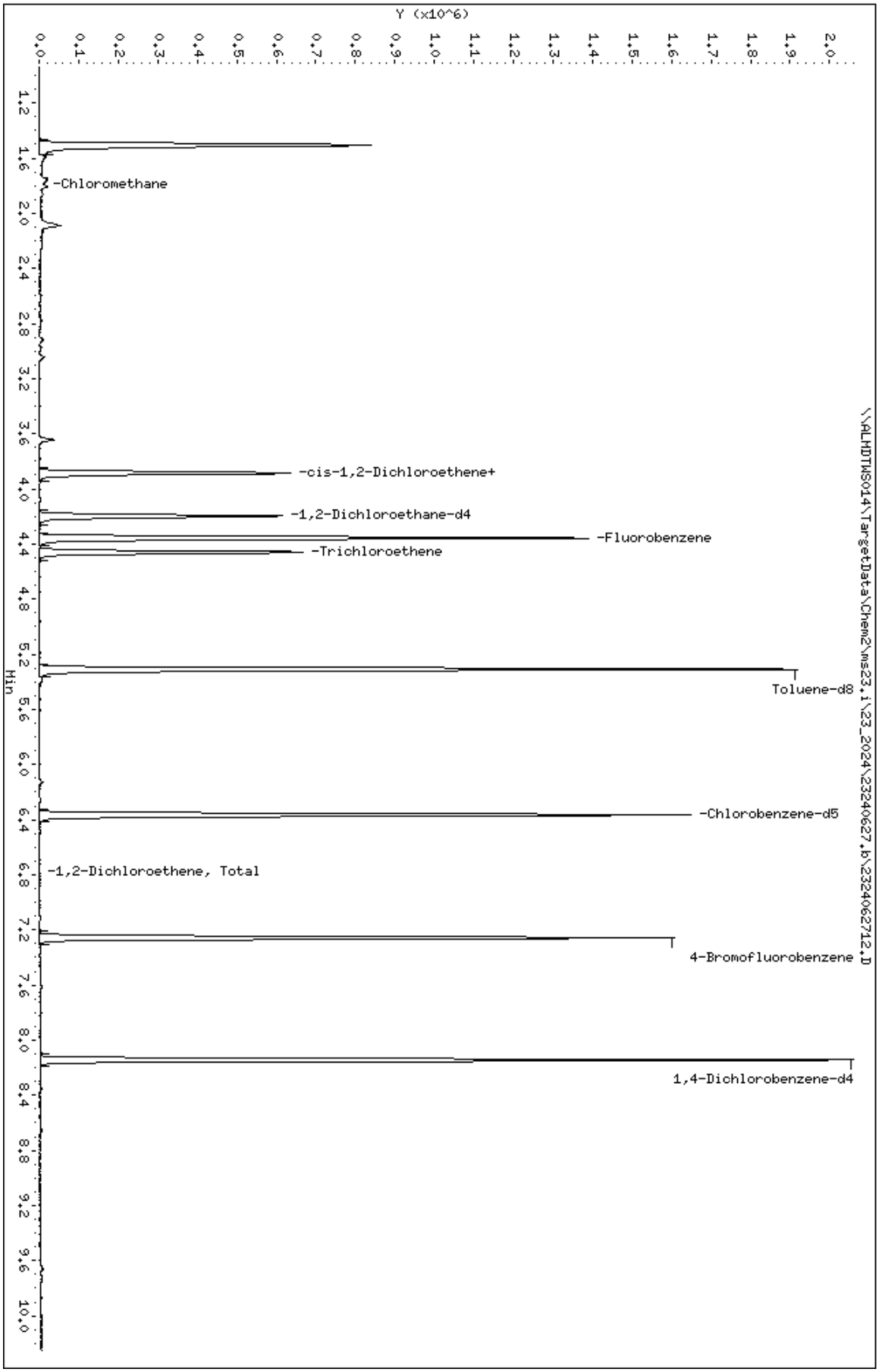
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	13171	1.28947	1.28947	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				13171	1.28947	1.28947(a)	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	287648	30.4598	30.4598	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	374551	30.9815	30.9815	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	960975	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.460	4.458	(1.024)	168271	18.7768	18.7768	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	1040460	30.6436	30.6436	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062712.D Page 3
Report Date: 28-Jun-2024 11:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.366	6.366	(1.000)	425979	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	412331	28.7165	28.7165	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	496329	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D
Date : 27-JUN-2024 14:49
Client ID: HS24060985-02
Sample Info: 33660280002;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D Page 2

Date : 27-JUN-2024 14:49

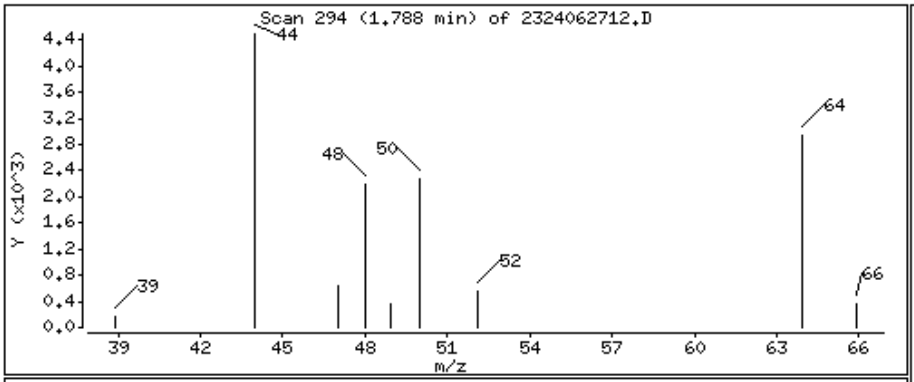
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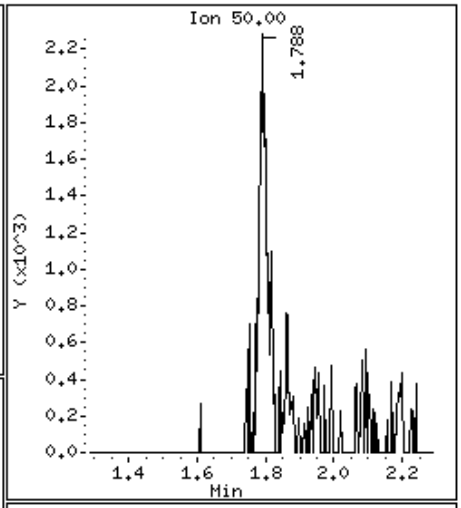
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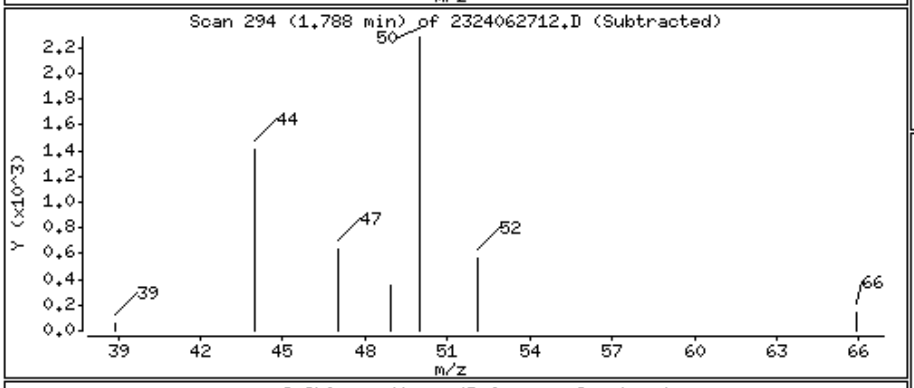
Purge Volume: 5.0 Operator: ILY

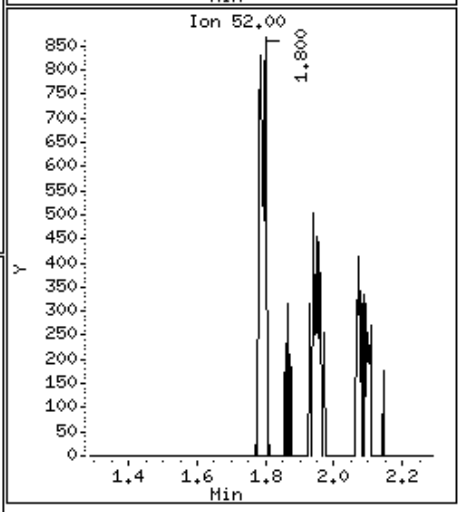
Column phase: DB-VRX Column diameter: 0.25

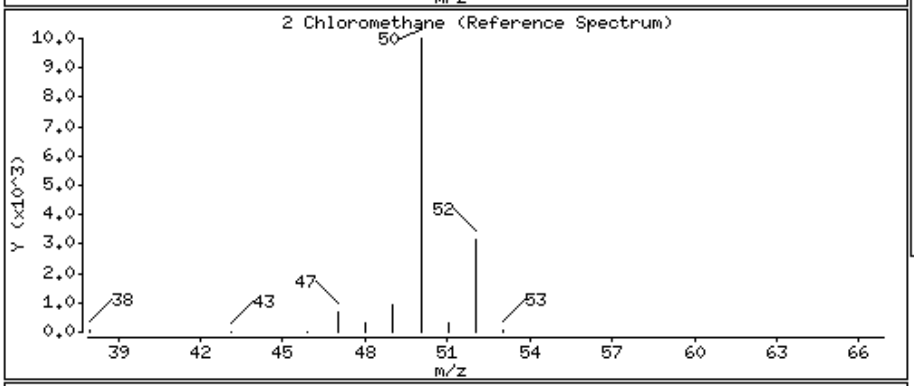
2 Chloromethane Concentration: 0.443308 ug/L

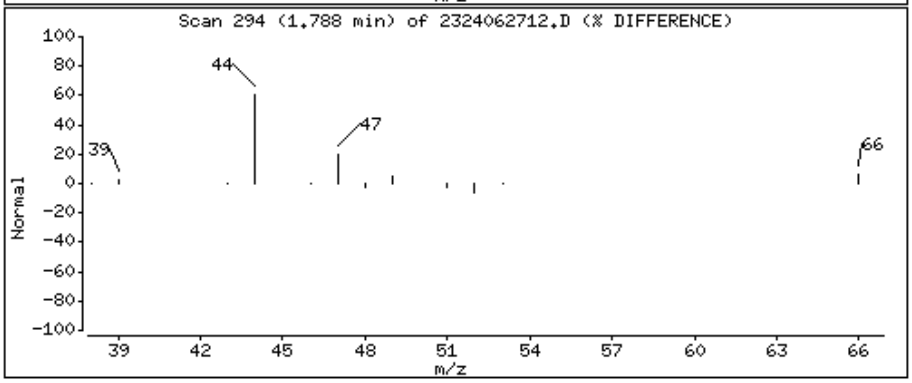












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D Page 3

Date : 27-JUN-2024 14:49

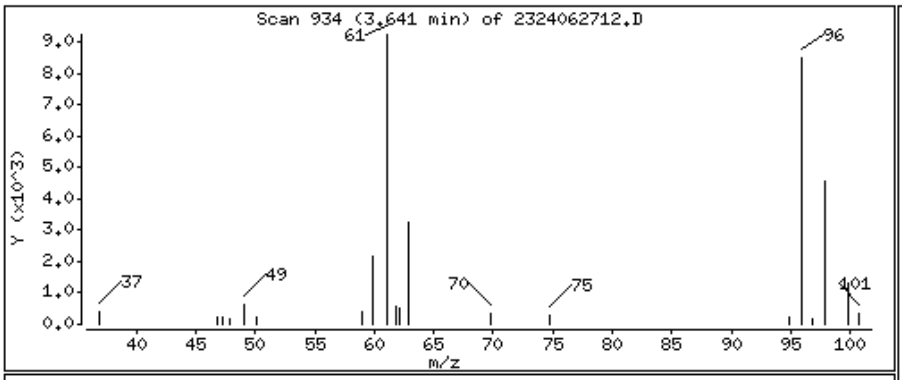
Client ID: HS24060985-02 Instrument: ms23.i

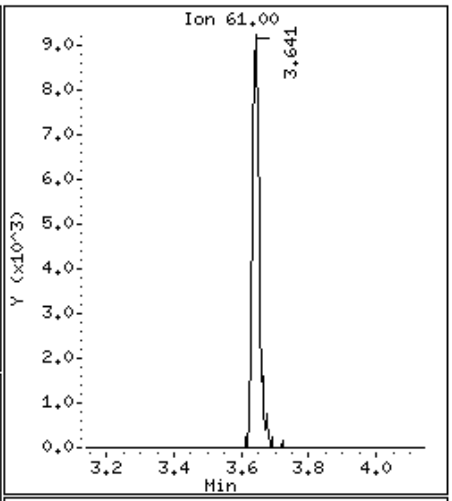
Sample Info: 3366028002;;1;;;;;

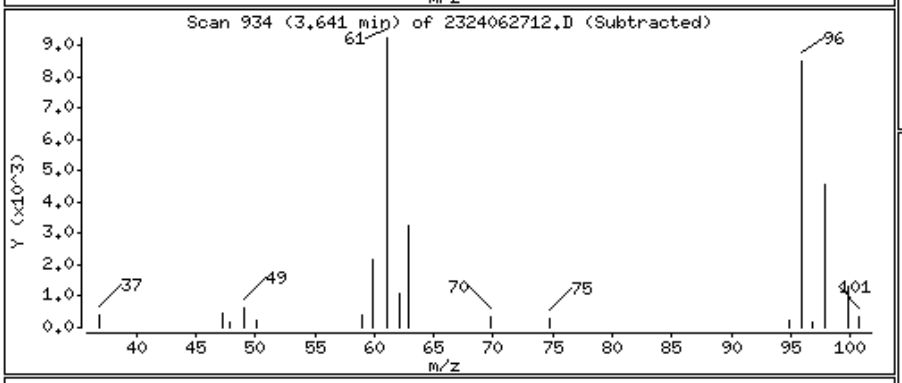
Purge Volume: 5.0 Operator: ILY

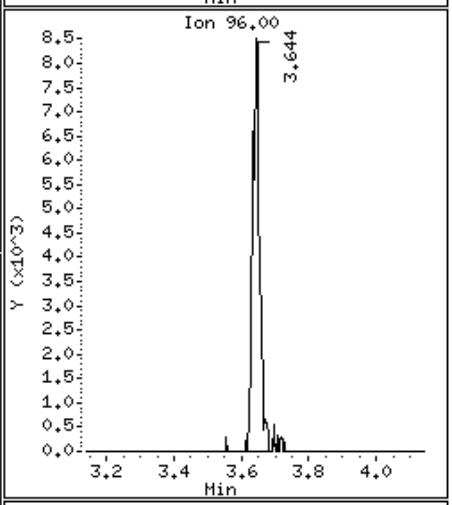
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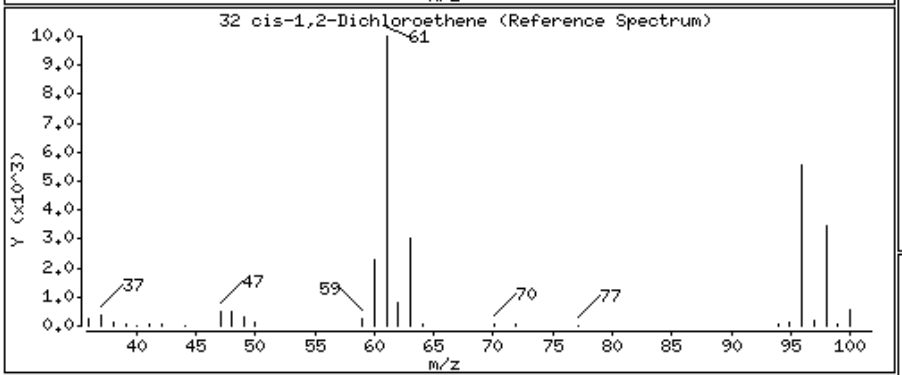
32 cis-1,2-Dichloroethene Concentration: 1.28947 ug/L

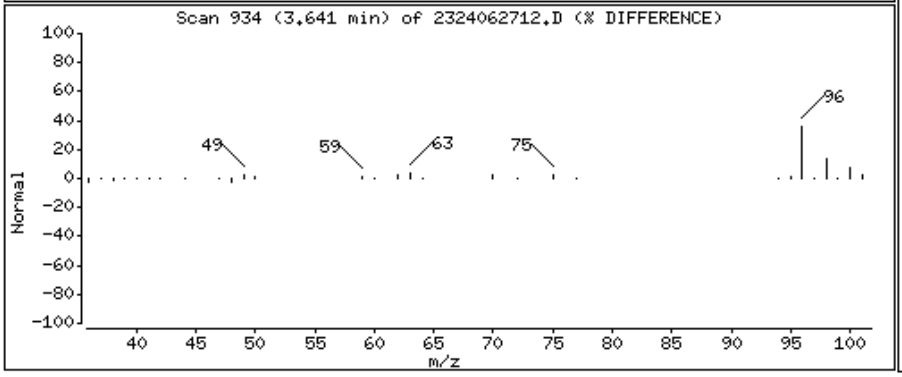


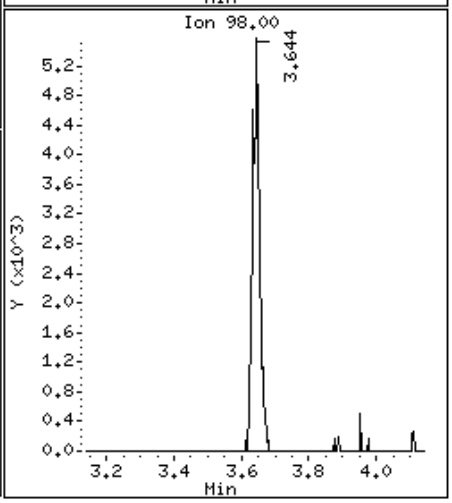












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D Page 4

Date : 27-JUN-2024 14:49

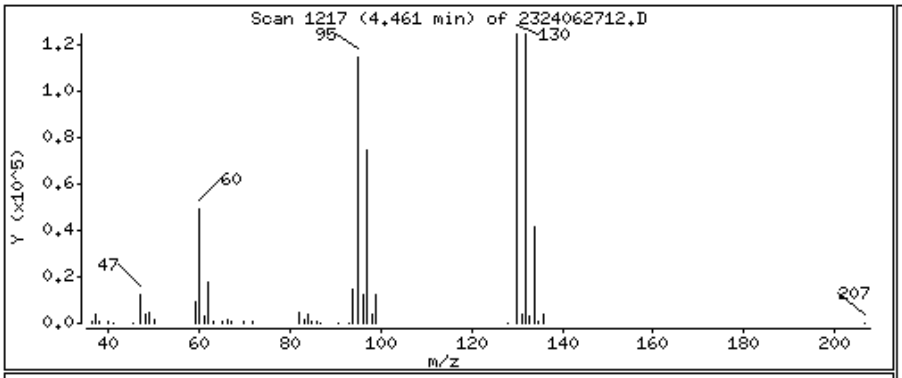
Client ID: HS24060985-02 Instrument: ms23.i

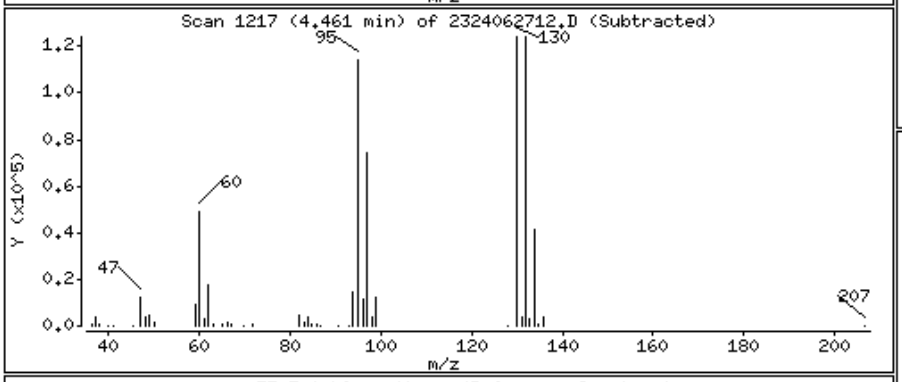
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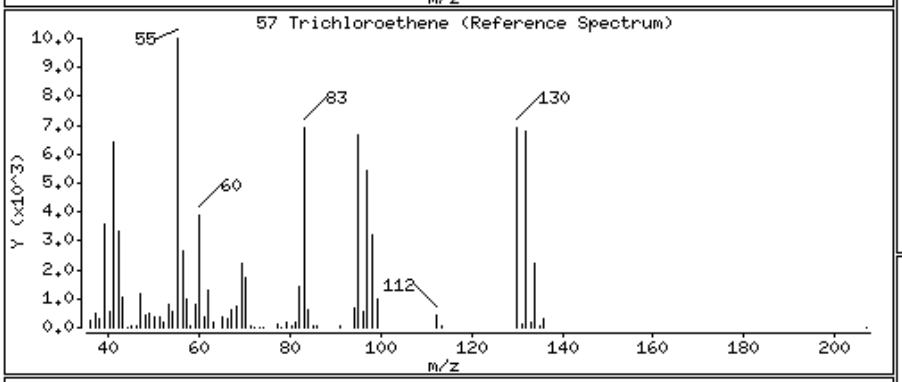
Purge Volume: 5.0 Operator: ILY

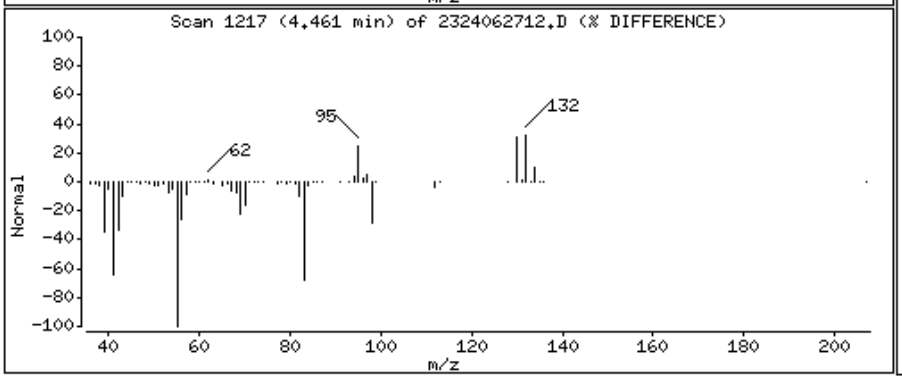
Column phase: DB-VRX Column diameter: 0.25

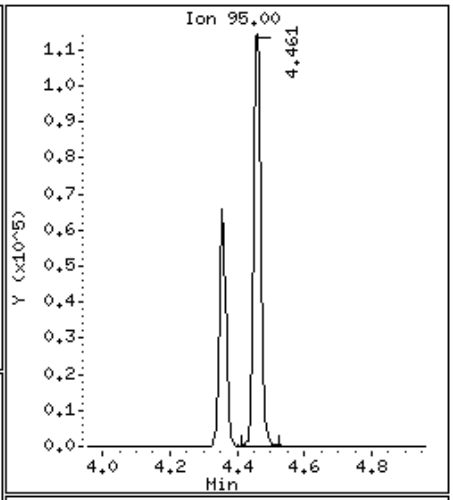
57 Trichloroethene Concentration: 18.7768 ug/L

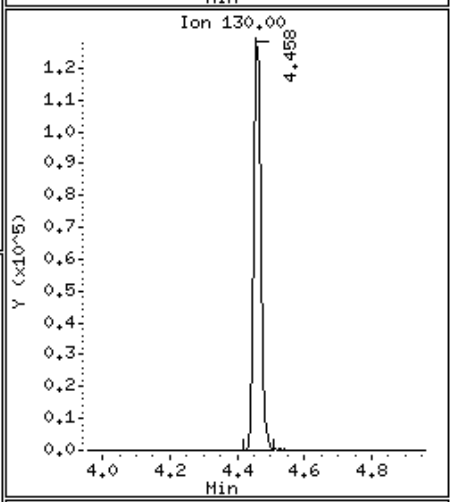


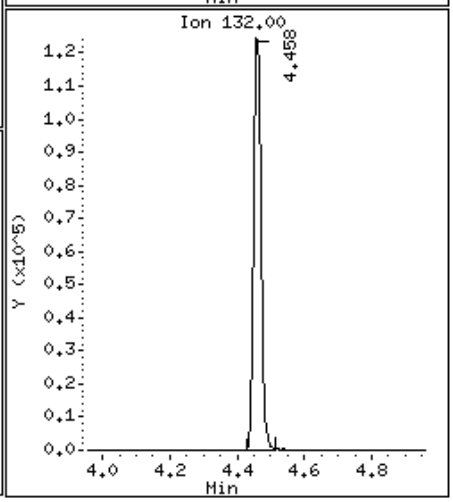












Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062712.D
Inj Date : 27-JUN-2024 14:49
InstruID : ms23.i
LabSampID : 3366028002

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:27
Client ID: HS24060985-02
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 14:49
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorohexane
1,2-Dichloroethane
Ethyl methacrylate
2-Nitropropane
Chloroethane
3-Chloro-1-propene
1,3-Dichloropropane
Methyl methacrylate
Pentane

Data File: 2324062713.D Page 1
Report Date: 28-Jun-2024 11:28

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062713.D
Lab Smp Id: 3366028003 Client Smp ID: HS24060985-03
Inj Date : 27-JUN-2024 15:09
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028003;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.782	1.788	(0.409)	3723	0.42595	0.425952(a)	
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062713.D Page 2
Report Date: 28-Jun-2024 11:28

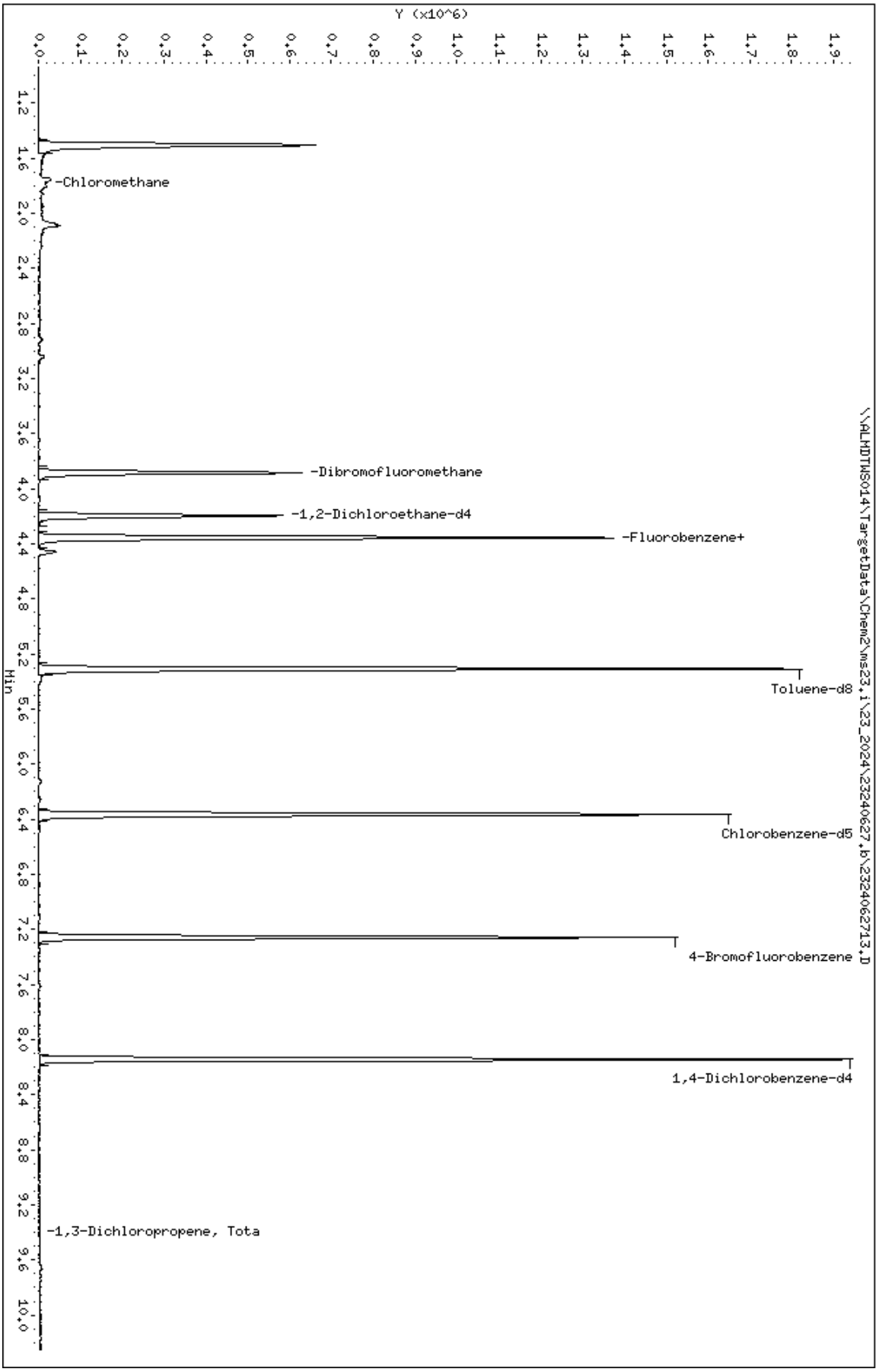
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	279547	29.1688	29.1688	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	358384	29.2105	29.2105	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	975246	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.460	4.458	(1.024)	9826	1.08041	1.08041	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	991866	28.9581	28.9581	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062713.D Page 3
Report Date: 28-Jun-2024 11:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	429720	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	386660	27.7115	27.7115	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	482307	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



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Client ID: HS24060986-03
Sample Info: 336602800З;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

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Date : 27-JUN-2024 15:09

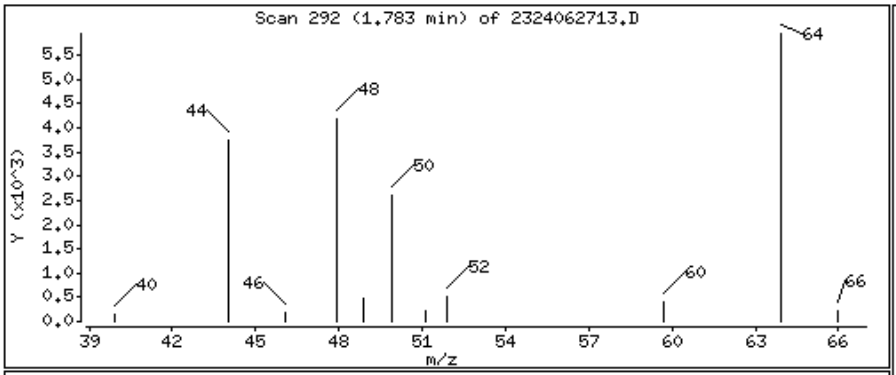
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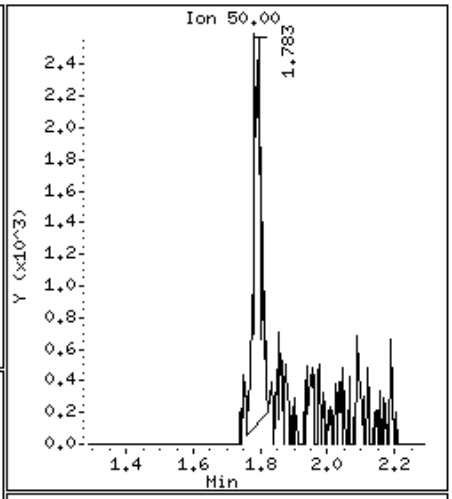
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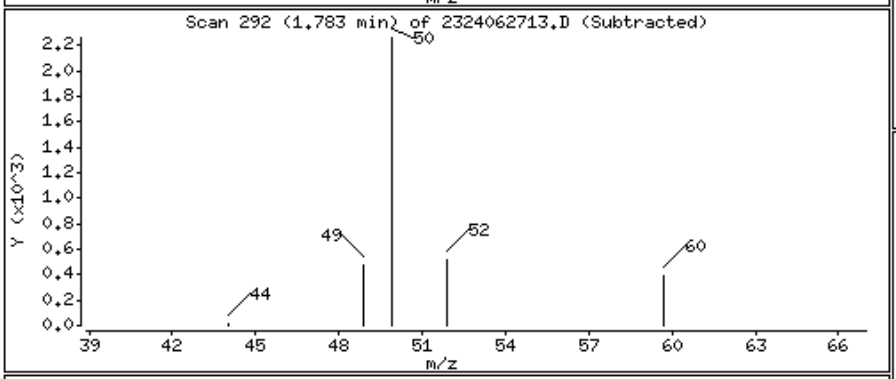
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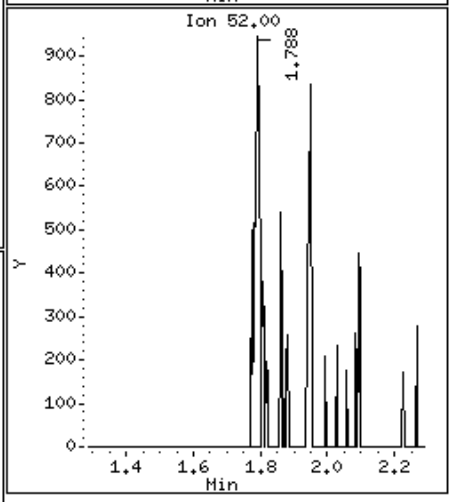
Column phase: DB-VRX Column diameter: 0.25

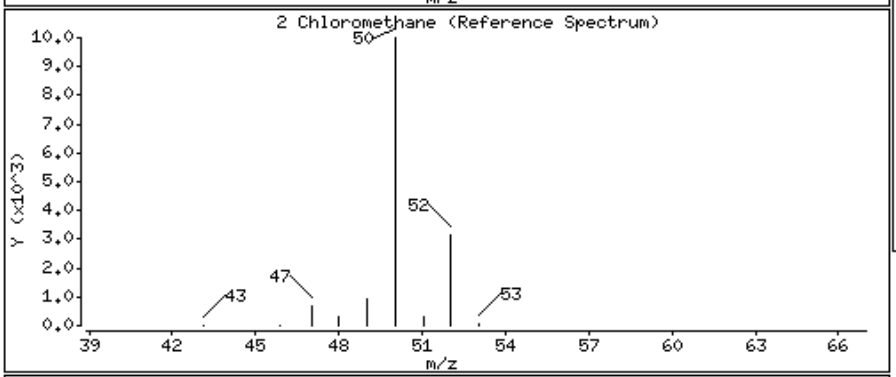
2 Chloromethane Concentration: 0.425952 ug/L

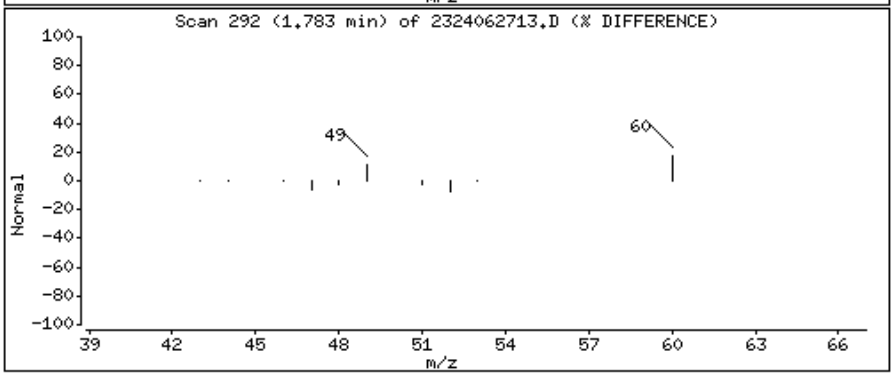












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062713.D Page 3

Date : 27-JUN-2024 15:09

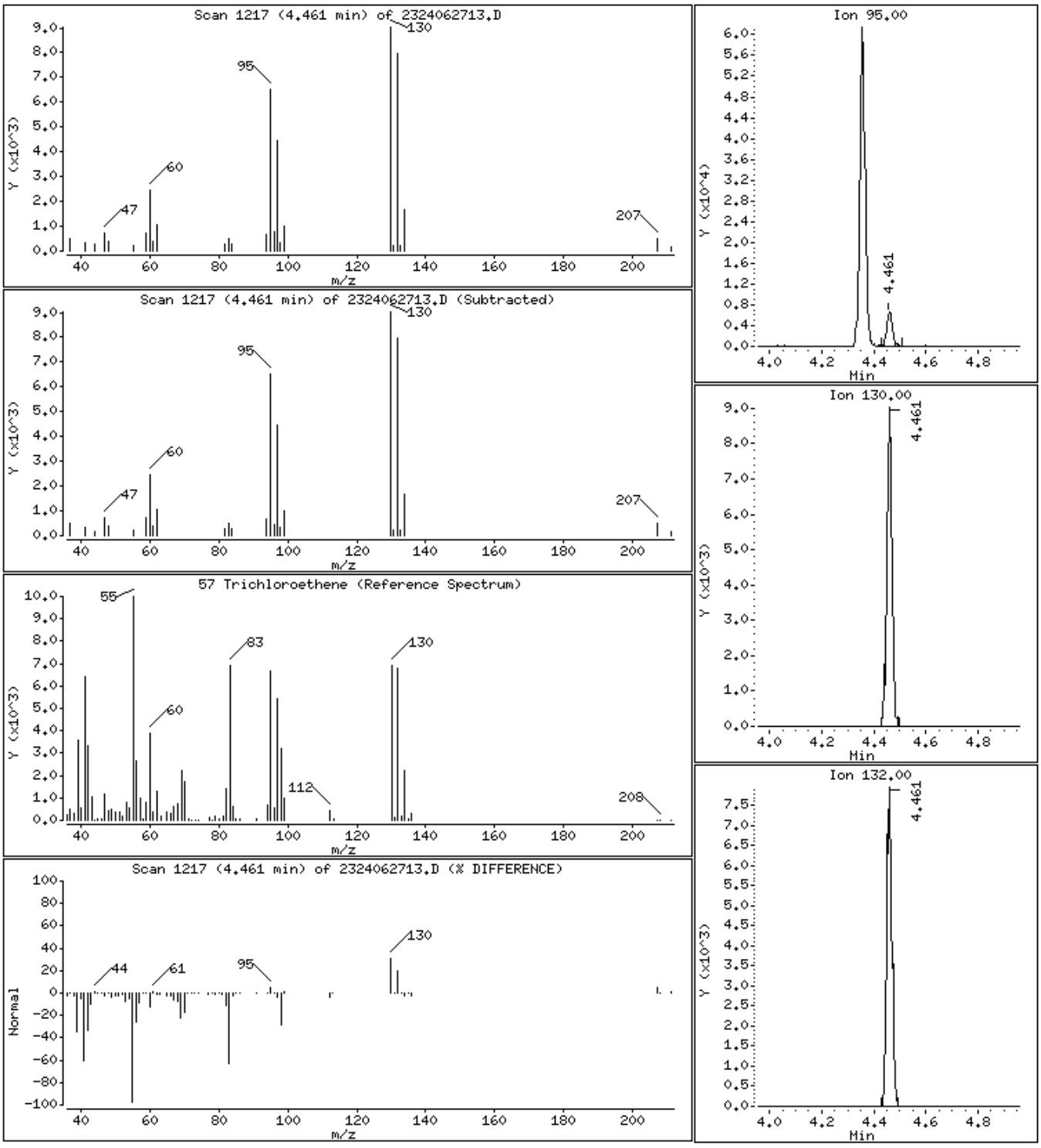
Client ID: HS24060985-03 Instrument: ms23.i

Sample Info: 3366028003;;1;;;;;

Purge Volume: 5.0 Operator: ILY

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 1.08041 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062713.D
Inj Date : 27-JUN-2024 15:09
InstruID : ms23.i
LabSampID : 3366028003

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:28
Client ID: HS24060985-03
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 15:09
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorohexane
1,2-Dichloroethane
cis-1,3-Dichloropropene
2-Hexanone
Methyl methacrylate
Chloroethane
3-Chloro-1-propene
1,3-Dichloropropane
Ethyl methacrylate
Methacrylonitrile
2-Nitropropane

Data File: 2324062714.D Page 1
Report Date: 28-Jun-2024 11:29

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D
Lab Smp Id: 3366028004 Client Smp ID: HS24060985-04
Inj Date : 27-JUN-2024 15:29
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028004;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.785	1.788	(0.410)	3057	0.35074	0.350735(a)	
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.581	2.578	(0.593)	48386	4.44011	4.44011	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.593	2.593	(0.595)	426107	57.4831	57.4831	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.998	3.004	(0.688)	5715	0.57203	0.572032(a)	
21 Hexane	57	3.039	3.045	(0.698)	5554	0.37485	0.374853(a)	
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

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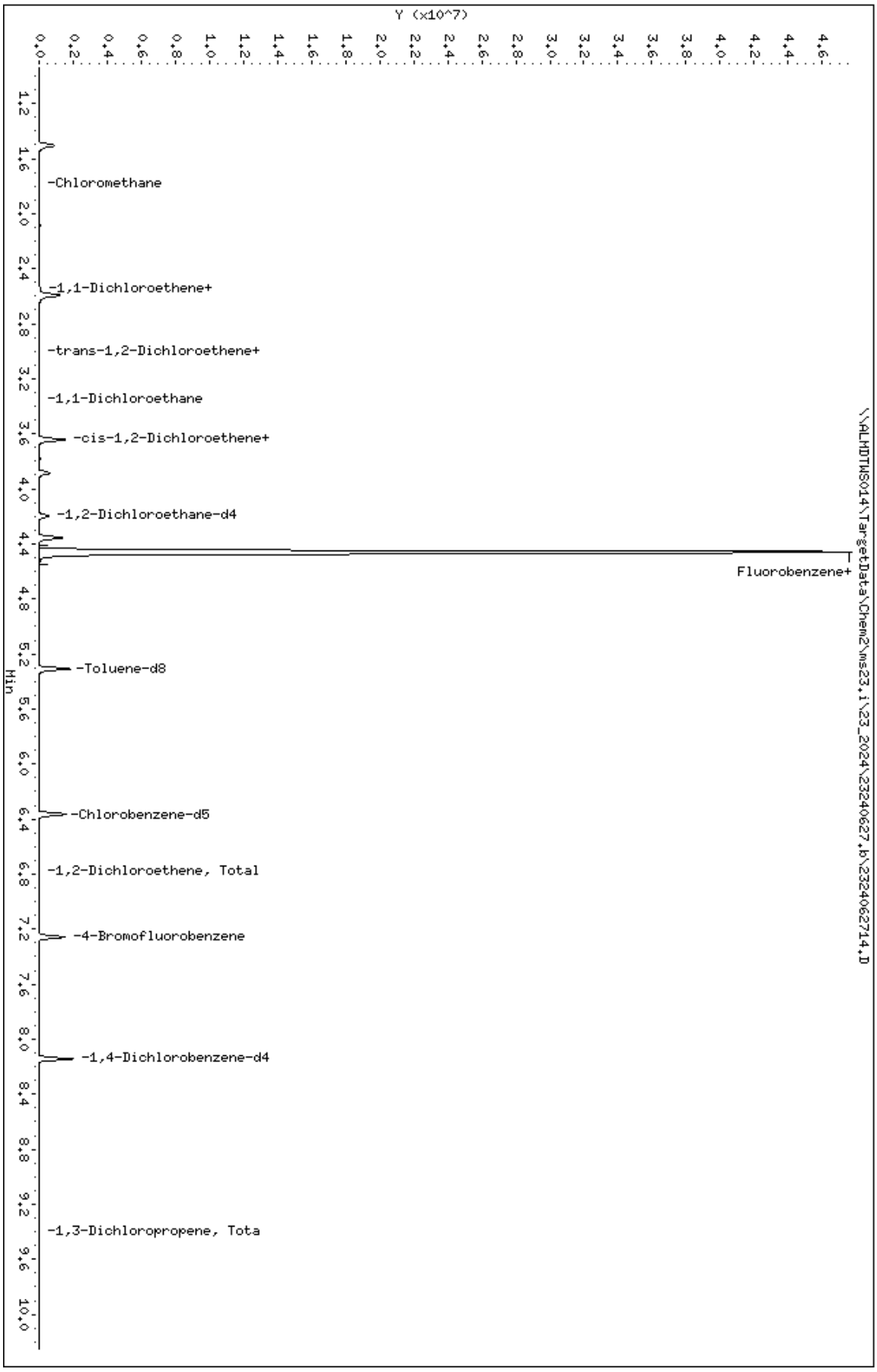
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.346	3.346	(0.768)	17076	1.40047	1.40047	
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	659425	63.7927	63.7927	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				665140	64.3647	64.3647	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.780	3.780	(0.868)	26771	1.54398	1.54398	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	287696	30.1033	30.1033	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	381342	31.1689	31.1689	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	972518	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.457	4.458	(1.023)	12374225	1364.41	1364.41(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	997904	29.2563	29.2563	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
77 1,1,2-Trichloroethane	83	Compound Not Detected.						
78 Chlorodibromomethane	129	Compound Not Detected.						
79 1,3-Dichloropropane	76	Compound Not Detected.						
80 1,2-Dibromoethane	107	Compound Not Detected.						
81 2-Hexanone	43	Compound Not Detected.						
82 1-Chlorohexane	91	Compound Not Detected.						
* 83 Chlorobenzene-d5	82	6.362	6.366	(1.000)	427929	30.0000		
85 Ethylbenzene	106	Compound Not Detected.						
84 Chlorobenzene	112	Compound Not Detected.						
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87 mp-Xylene	106	Compound Not Detected.						
M 120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
88 o-Xylene	106	Compound Not Detected.						
89 Styrene	104	Compound Not Detected.						
90 Bromoform	173	Compound Not Detected.						
91 Isopropylbenzene	105	Compound Not Detected.						
$ 92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	397511	28.0529	28.0529	
M 121 TOTAL XYLENES	106	Compound Not Detected.						
94 n-Propylbenzene	120	Compound Not Detected.						
93 Bromobenzene	156	Compound Not Detected.						
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
96 o-Chlorotoluene	91	Compound Not Detected.						
98 1,2,3-Trichloropropane	110	Compound Not Detected.						
99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101 p-Chlorotoluene	91	Compound Not Detected.						
102 tert-Butylbenzene	134	Compound Not Detected.						
103 Pentachloroethane	117	Compound Not Detected.						
104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
105 sec-Butylbenzene	105	Compound Not Detected.						
106 p-Isopropyltoluene	134	Compound Not Detected.						
107 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	489809	30.0000		(Q)
109 1,4-Dichlorobenzene	146	Compound Not Detected.						
111 n-Butylbenzene	134	Compound Not Detected.						
110 Benzyl Chloride	126	Compound Not Detected.						
112 Hexachloroethane	117	Compound Not Detected.						
113 1,2-Dichlorobenzene	146	Compound Not Detected.						
114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115 Nitrobenzene	77	Compound Not Detected.						
116 Hexachlorobutadiene	225	Compound Not Detected.						
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118 Naphthalene	128	Compound Not Detected.						
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



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Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

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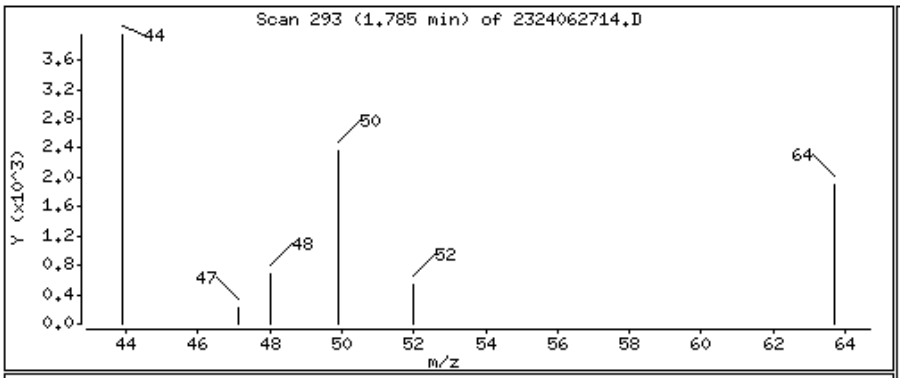
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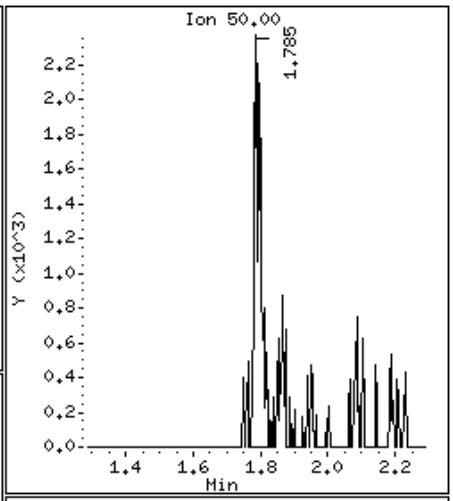
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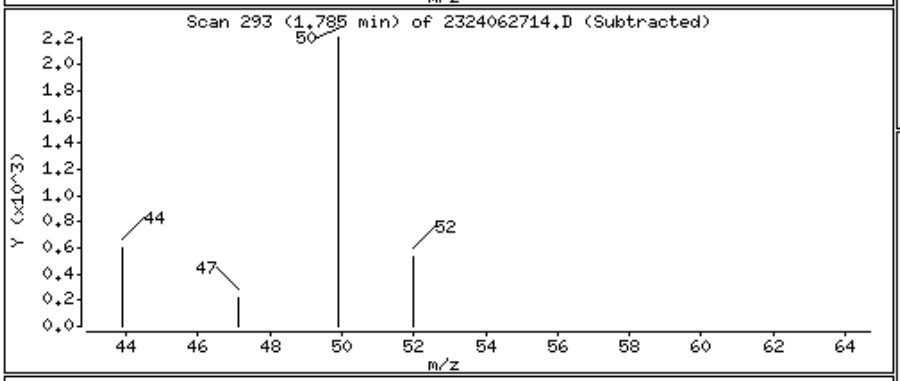
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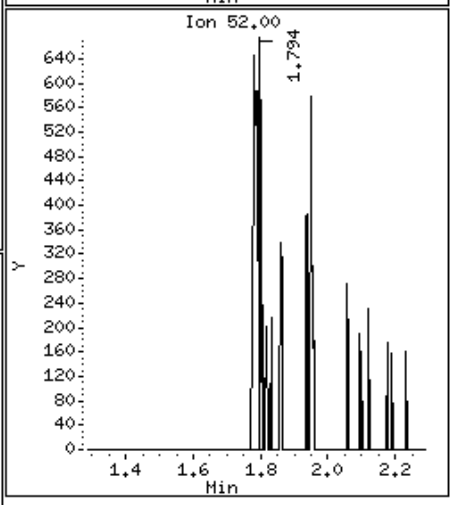
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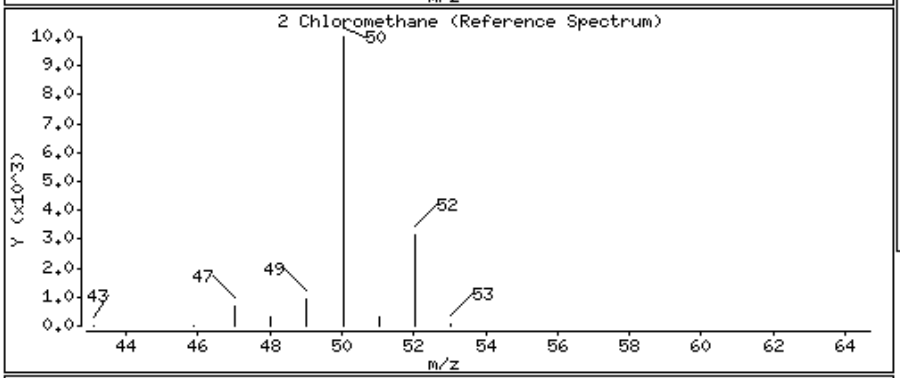
2 Chloromethane Concentration: 0.350735 ug/L

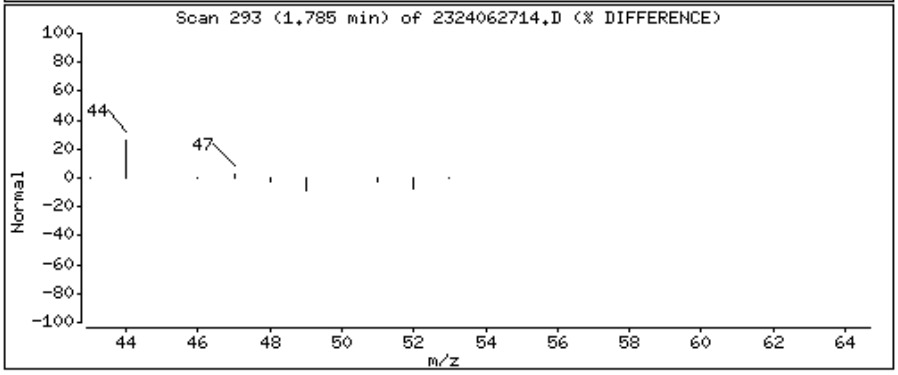












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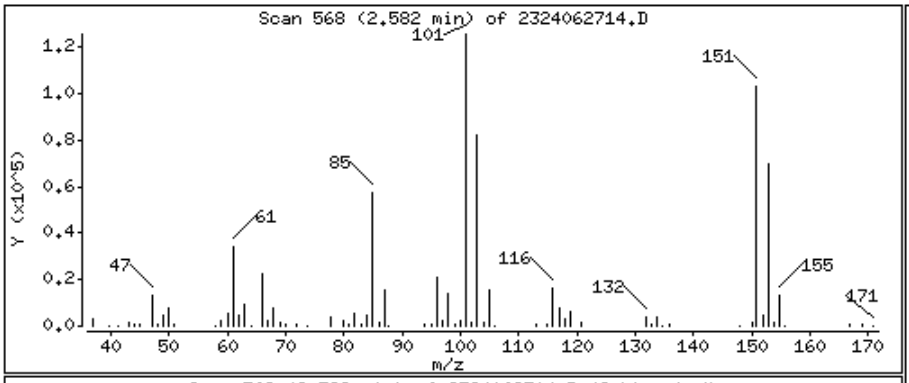
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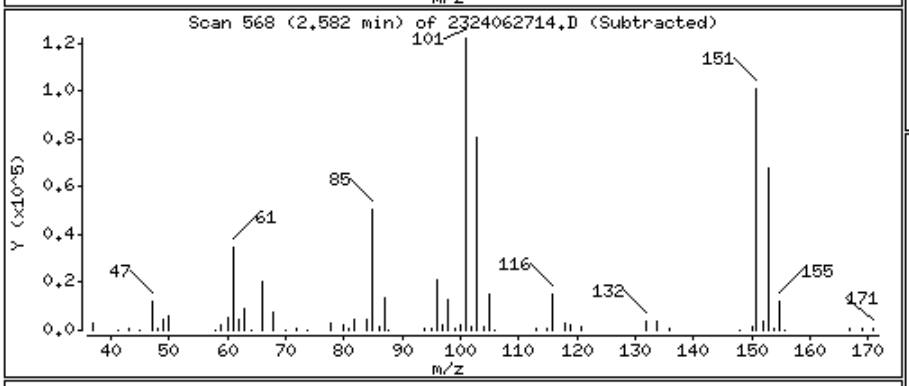
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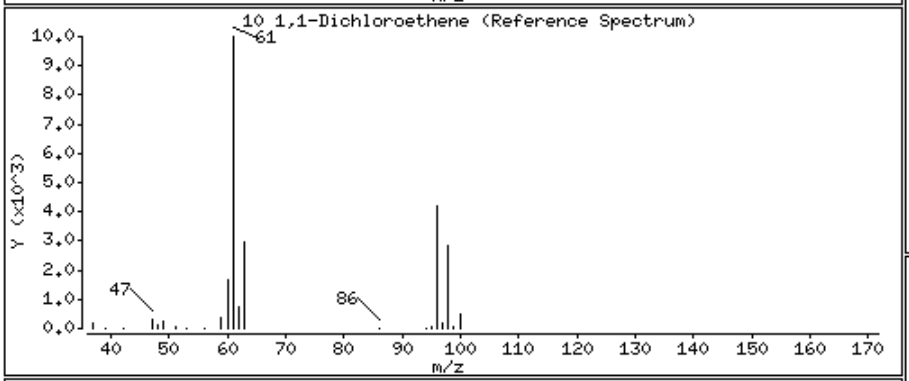
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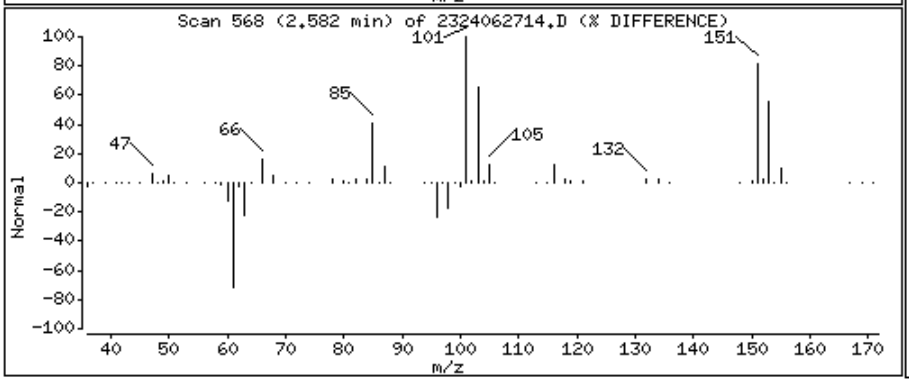
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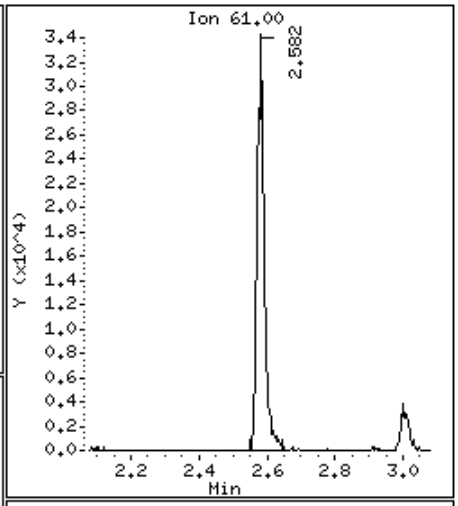
10 1,1-Dichloroethene Concentration: 4.44011 ug/L

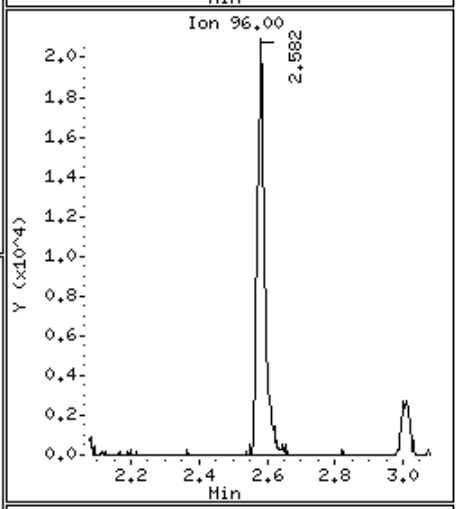


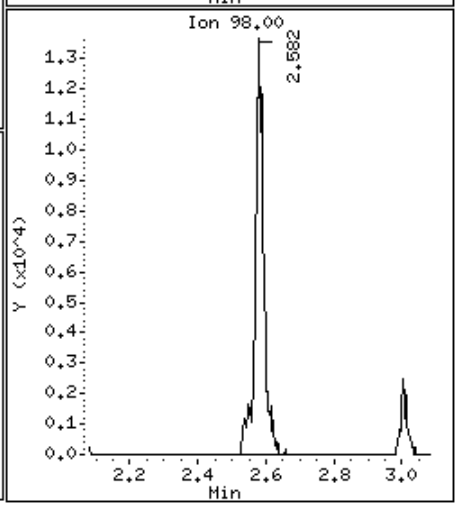












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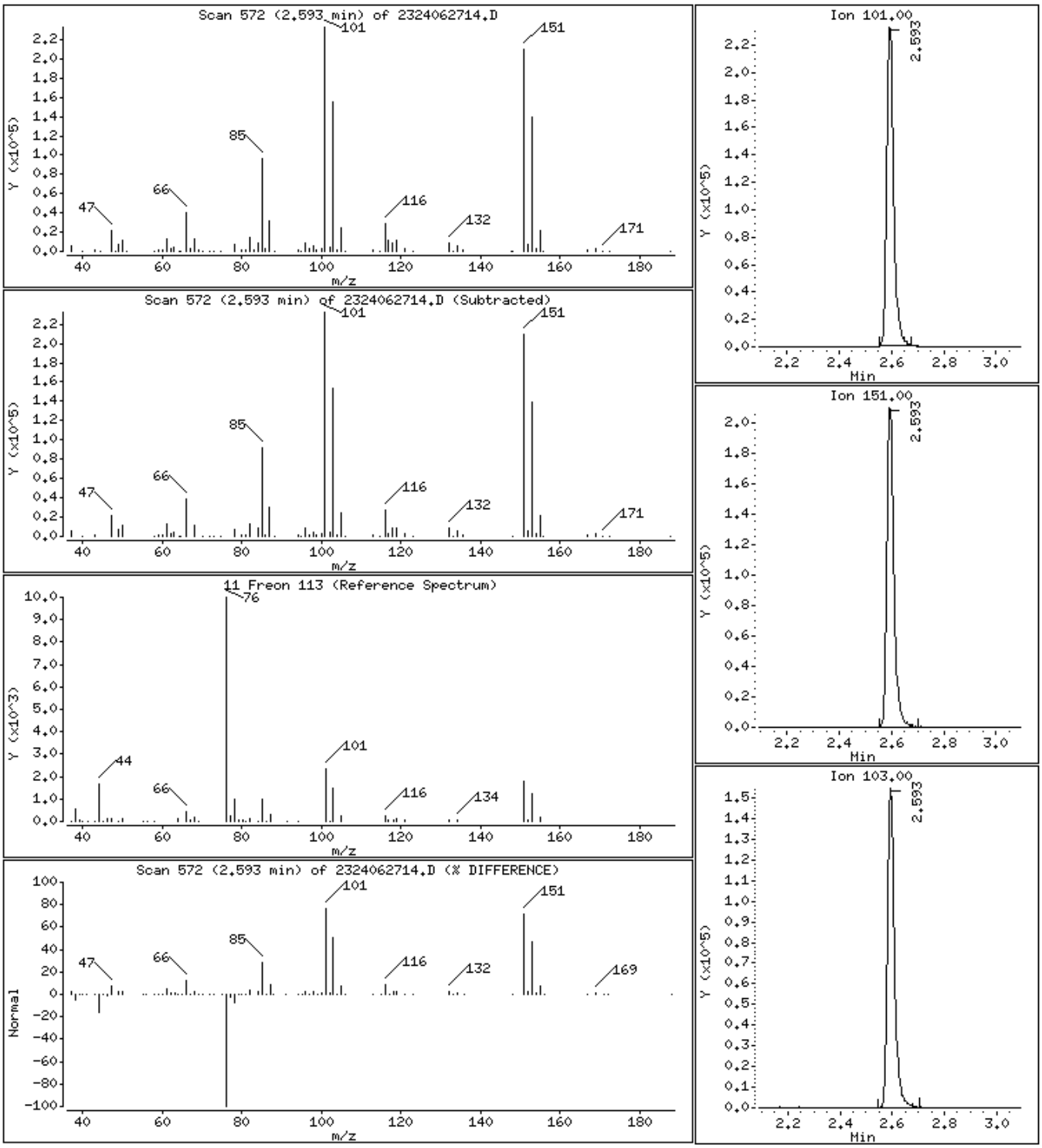
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Sample Info: 3366028004;;1;;;;;

Purge Volume: 5.0 Operator: ILY

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 57.4831 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D Page 5

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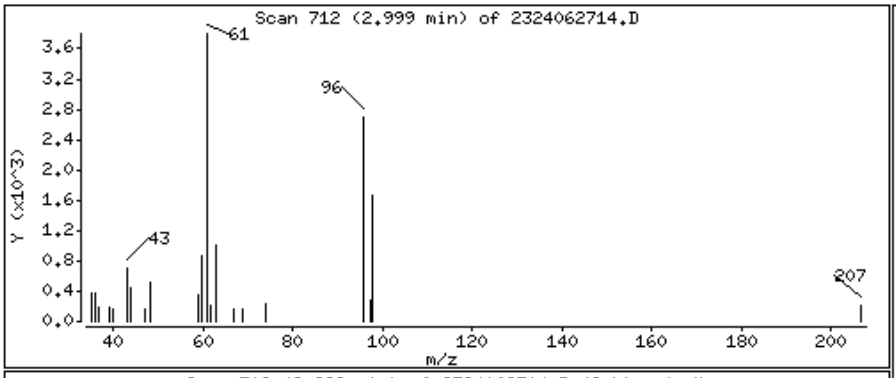
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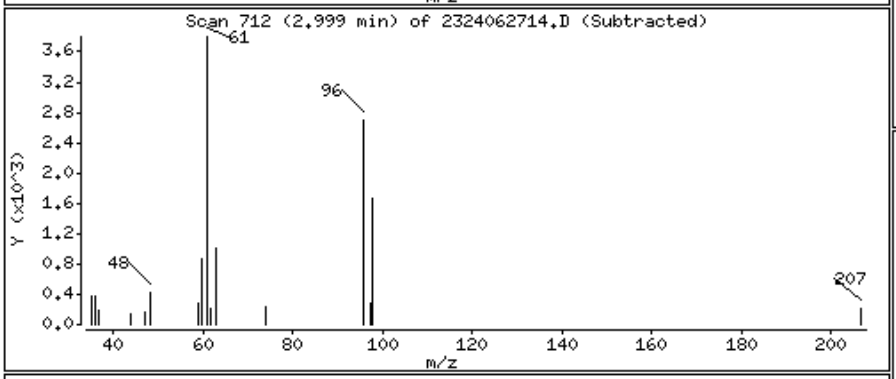
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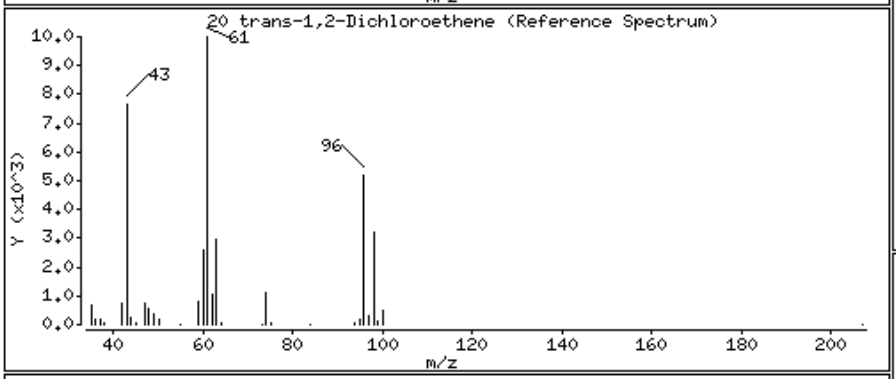
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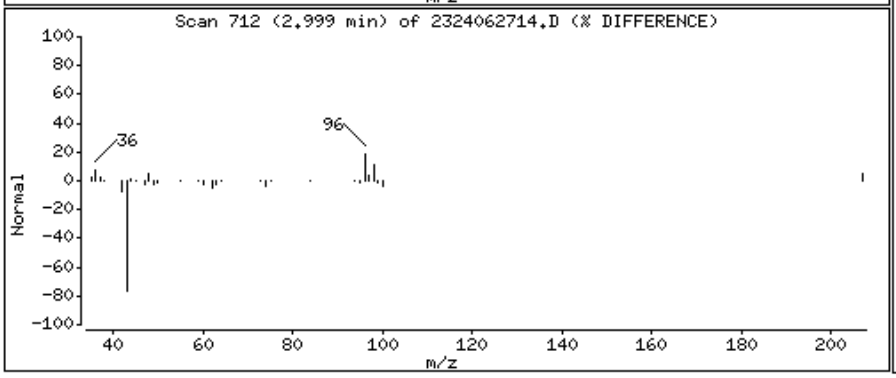
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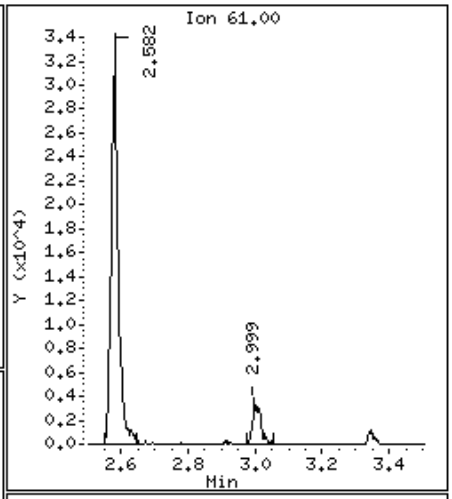
20 trans-1,2-Dichloroethene Concentration: 0.572032 ug/L

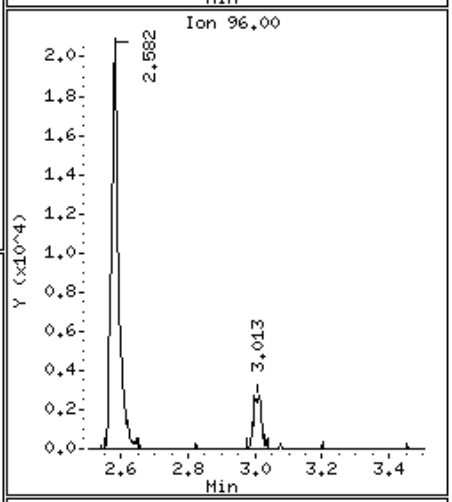


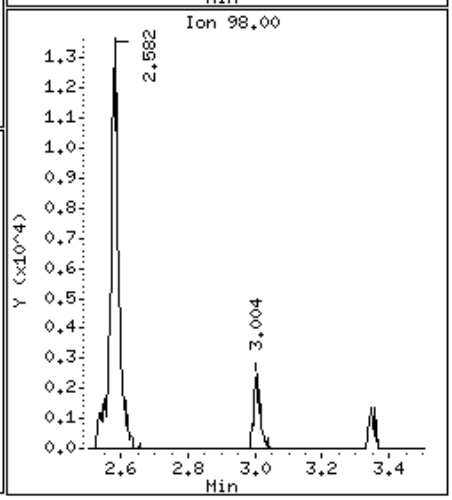












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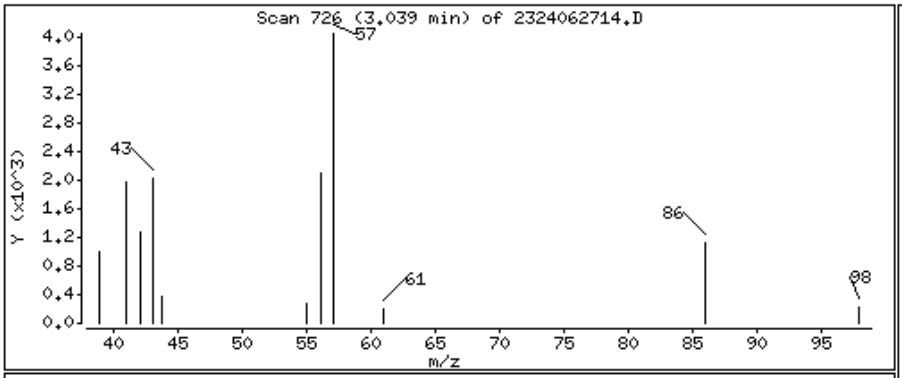
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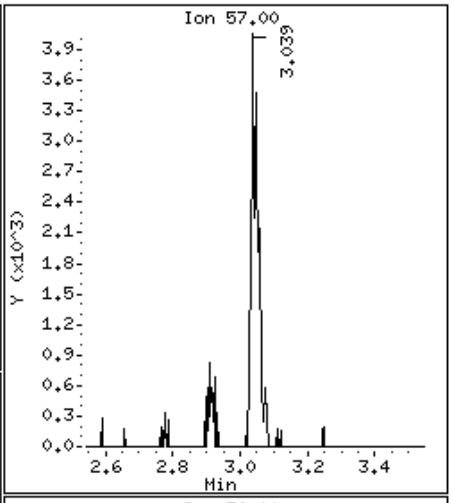
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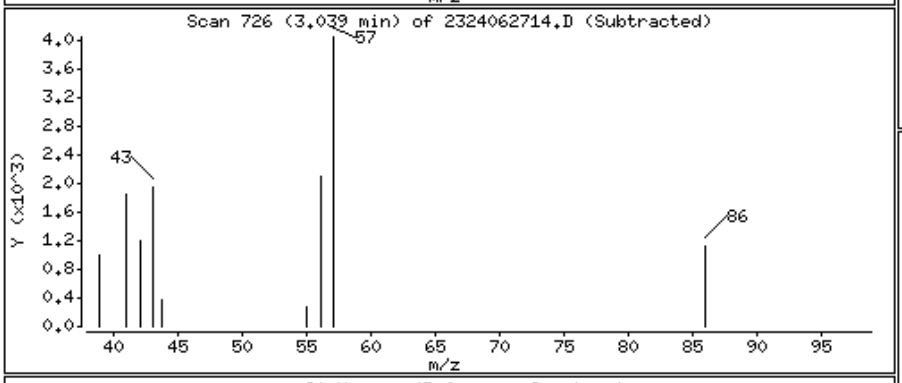
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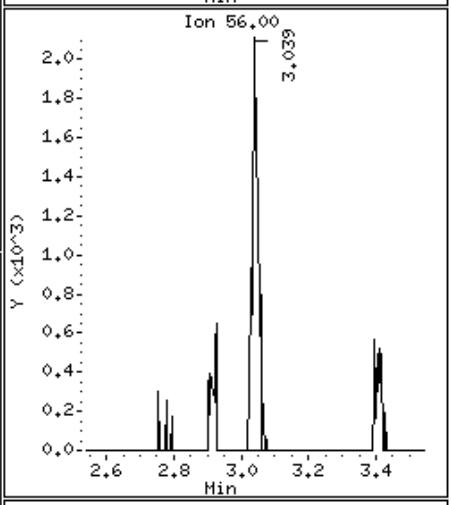
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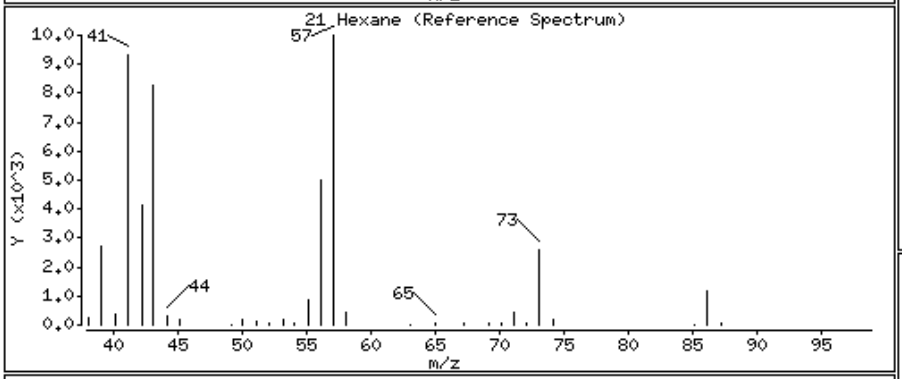
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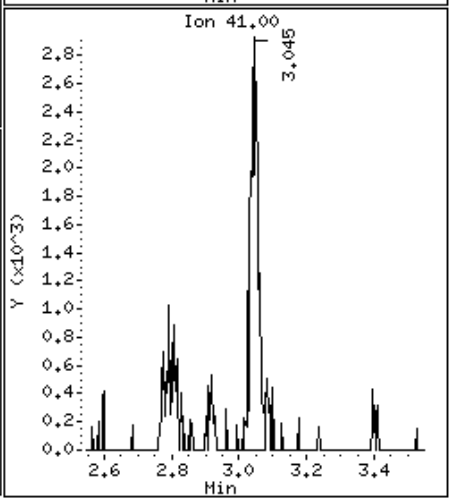


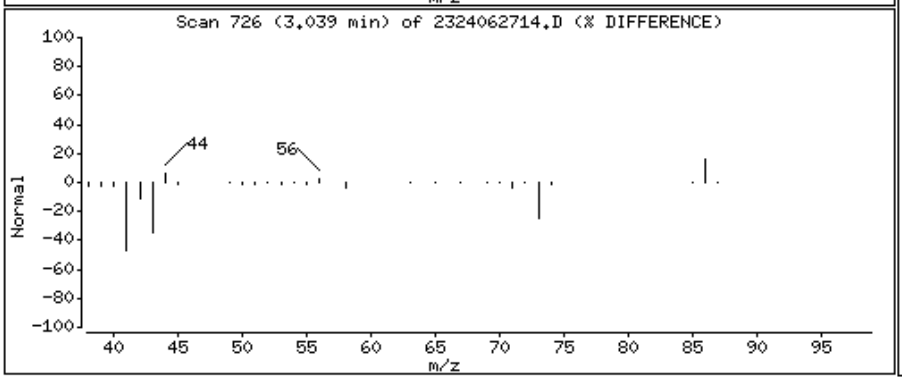












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D Page 7

Date : 27-JUN-2024 15:29

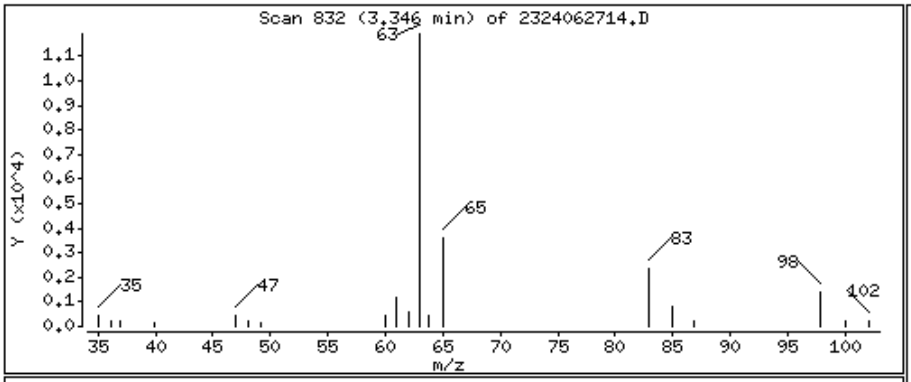
Client ID: HS24060985-04 Instrument: ms23.i

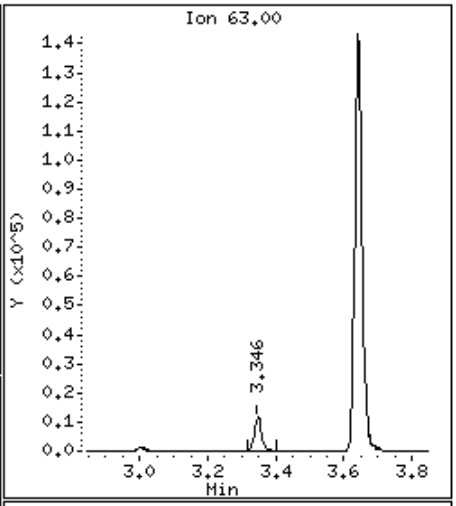
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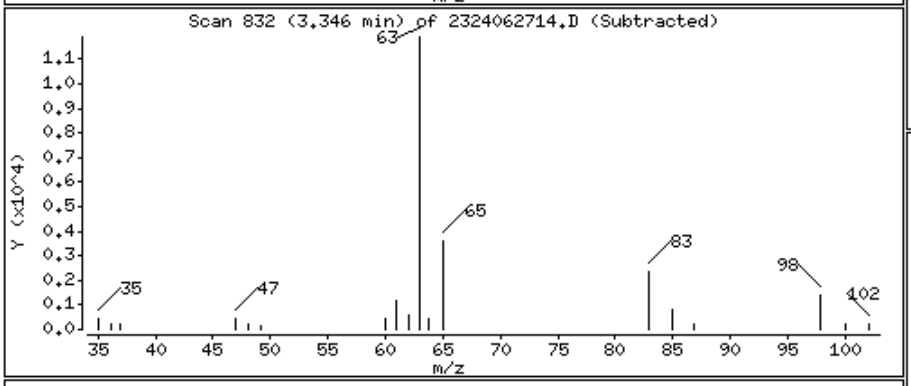
Purge Volume: 5.0 Operator: ILY

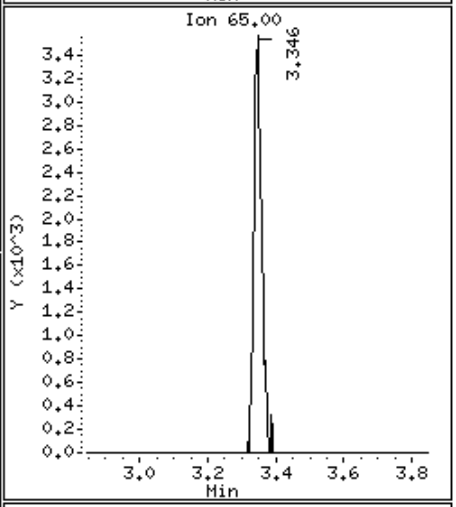
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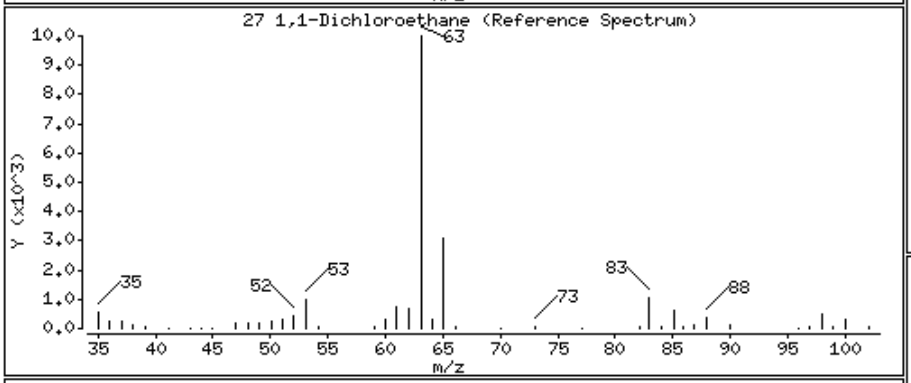
27 1,1-Dichloroethane Concentration: 1.40047 ug/L

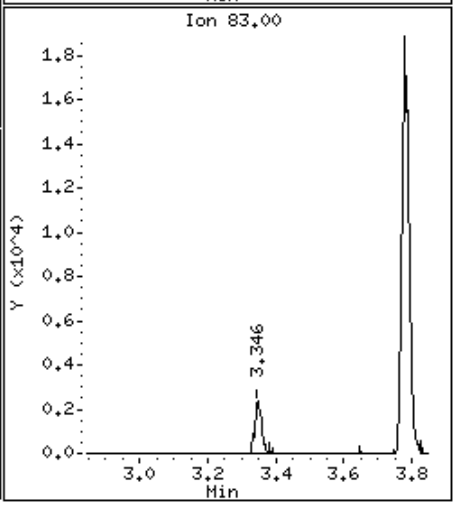


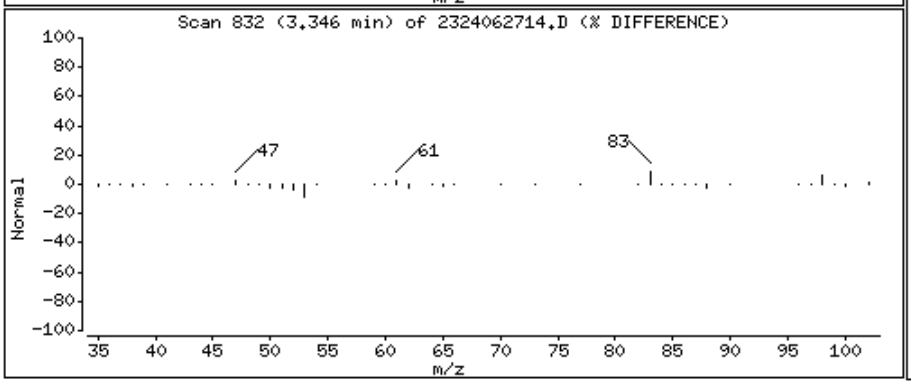












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Date : 27-JUN-2024 15:29

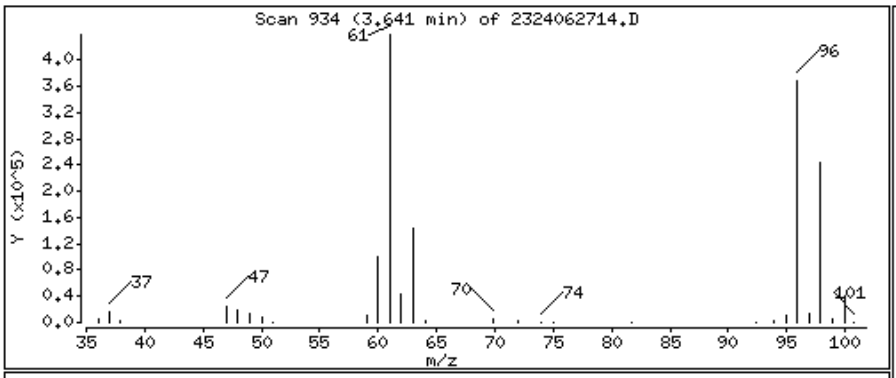
Client ID: HS24060985-04 Instrument: ms23.i

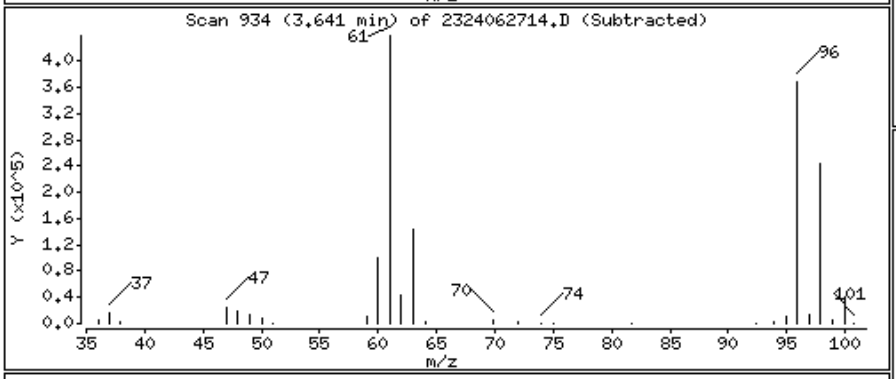
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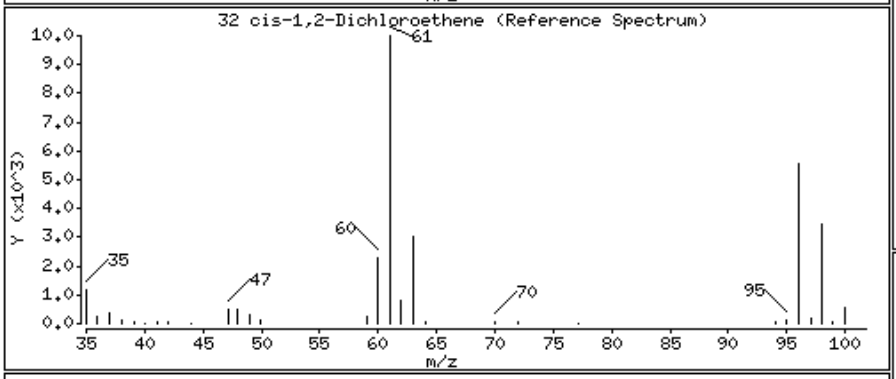
Purge Volume: 5.0 Operator: ILY

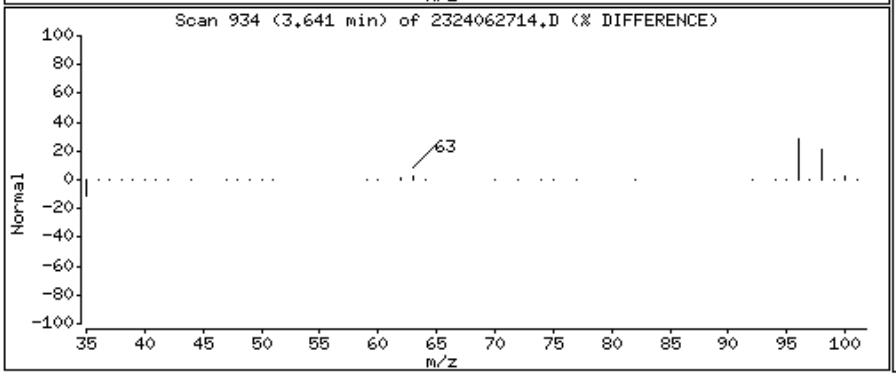
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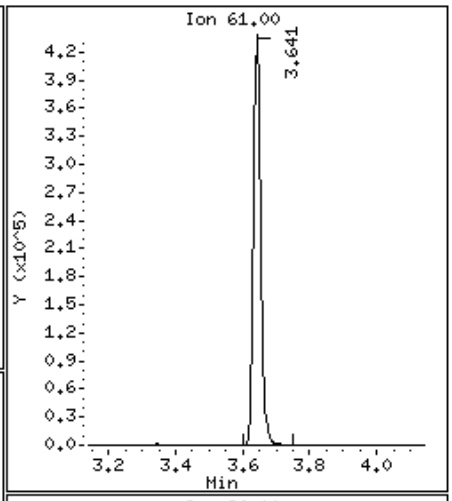
32 cis-1,2-Dichloroethene Concentration: 63.7927 ug/L

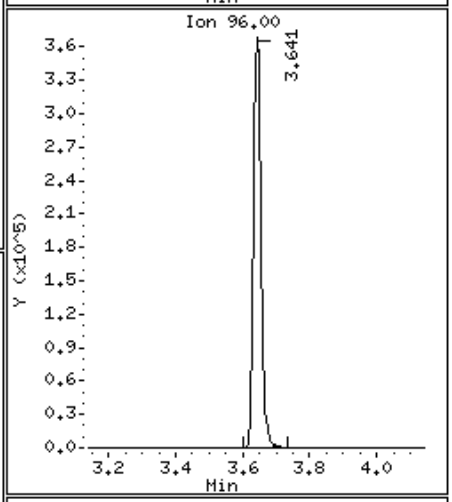


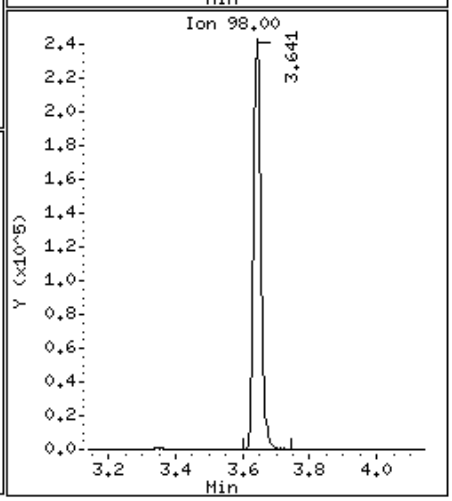












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D Page 9

Date : 27-JUN-2024 15:29

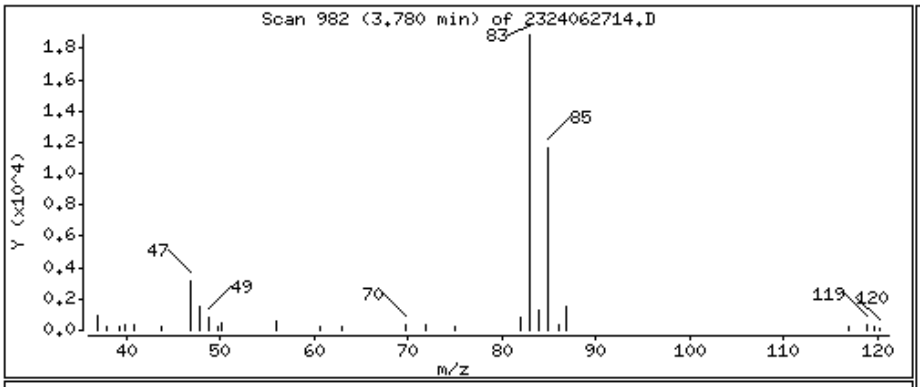
Client ID: HS24060985-04 Instrument: ms23.i

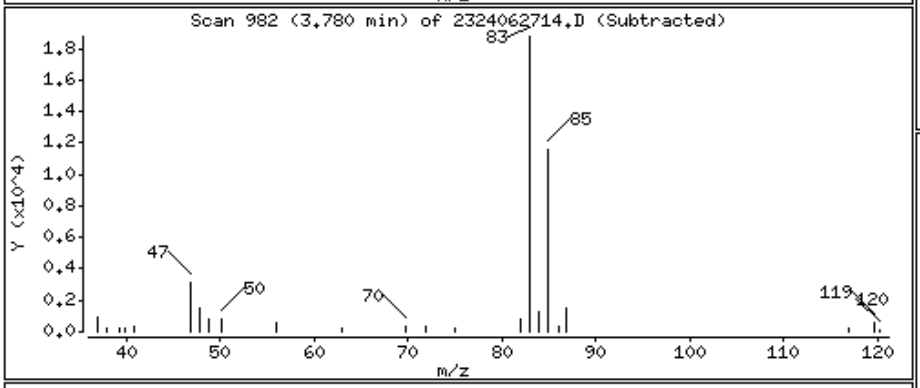
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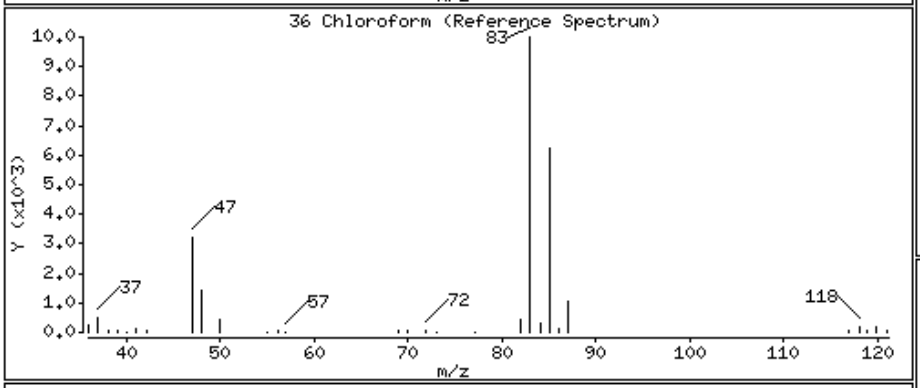
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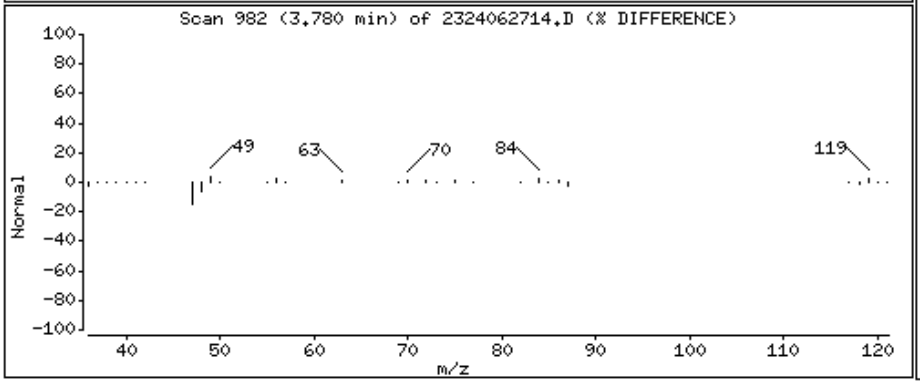
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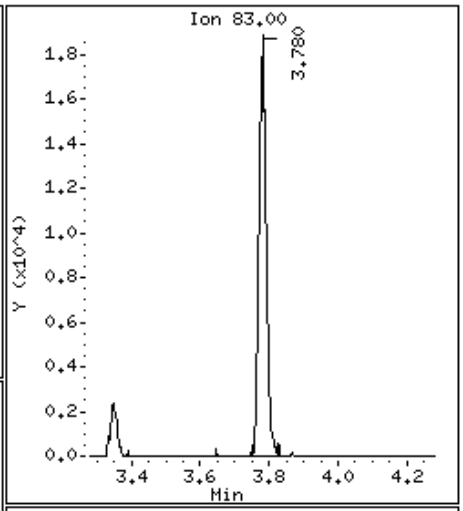
36 Chloroform Concentration: 1.54398 ug/L

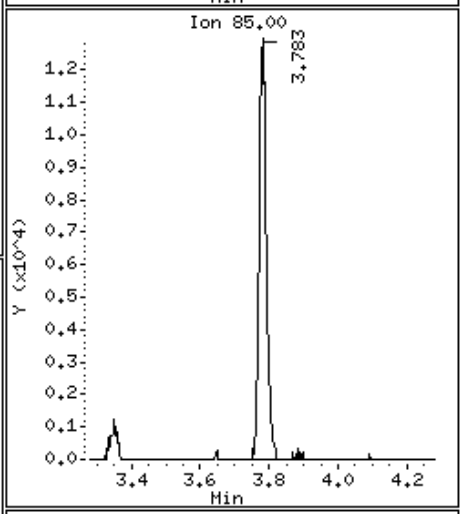


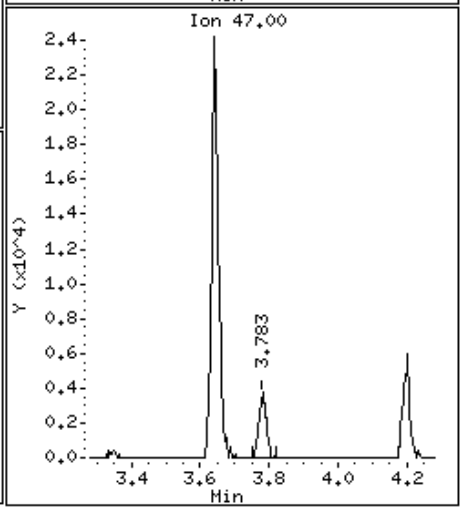












Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D Page 10

Date : 27-JUN-2024 15:29

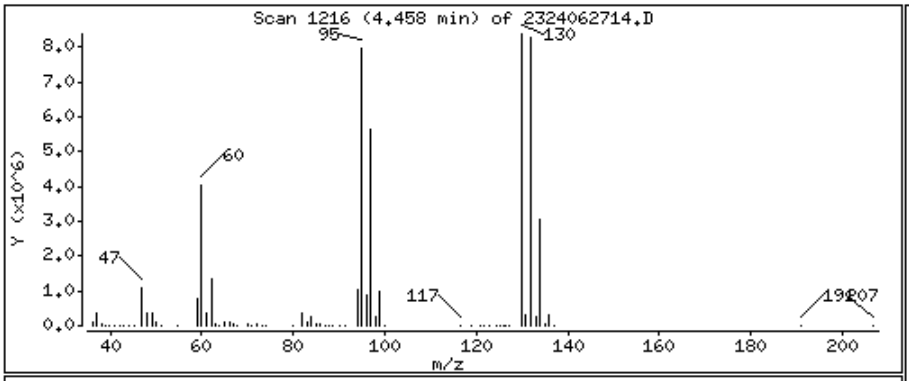
Client ID: HS24060985-04 Instrument: ms23.i

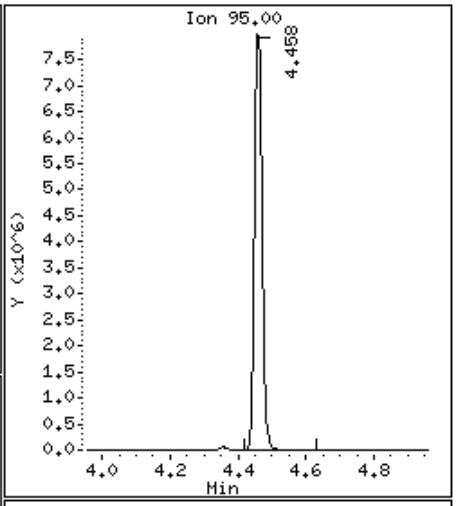
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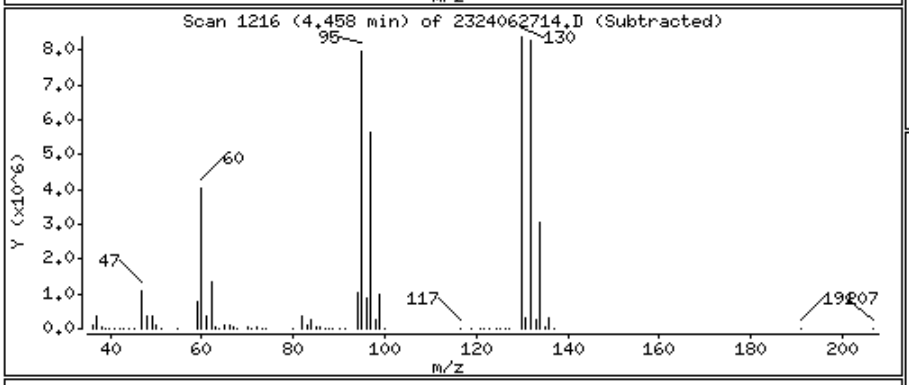
Purge Volume: 5.0 Operator: ILY

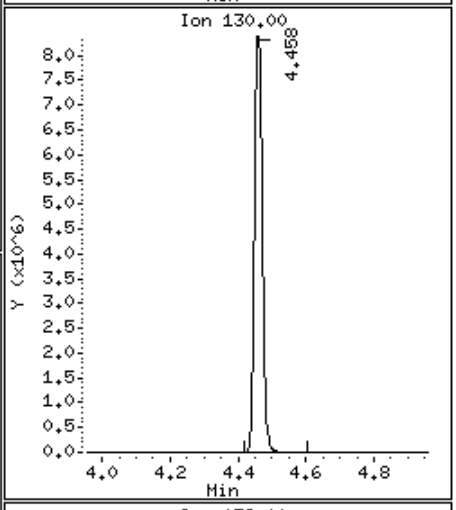
Column phase: DB-VRX Column diameter: 0.25

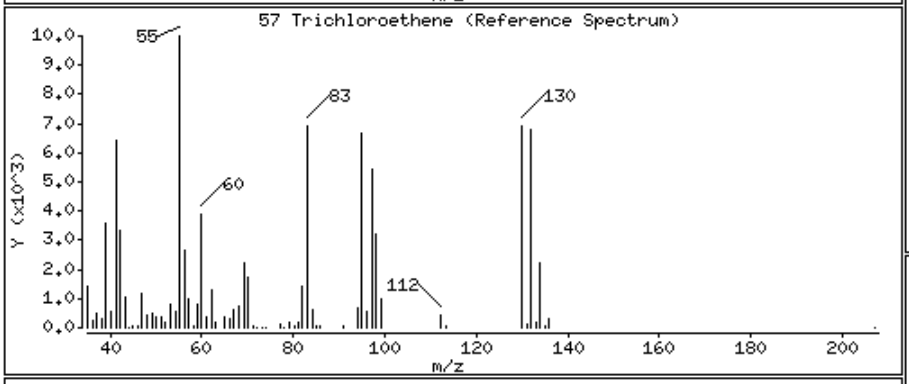
57 Trichloroethene Concentration: 1364.41 ug/L

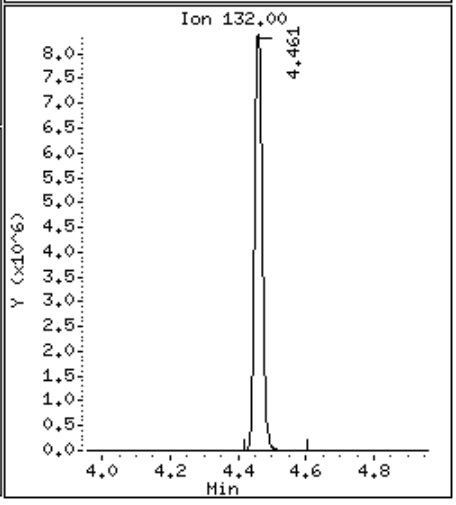


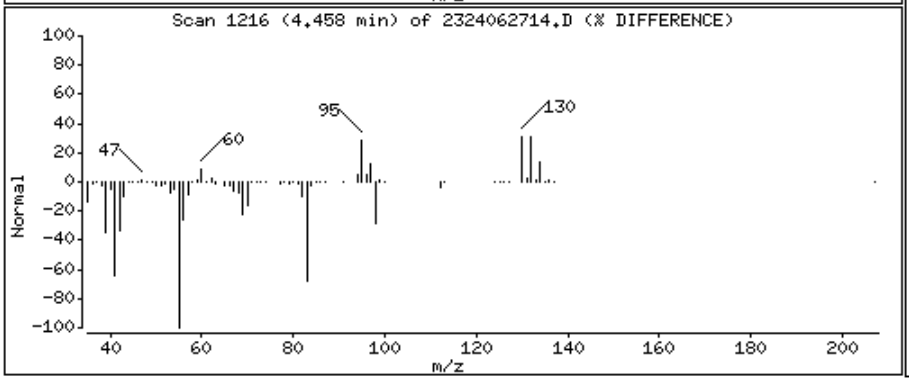












Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062714.D
Inj Date : 27-JUN-2024 15:29
InstruID : ms23.i
LabSampID : 3366028004

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:29
Client ID: HS24060985-04
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 15:29
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	tert-amyl methyl Ether
tert-Amyl Alcohol	tert-Amyl Ethylether
Bromodichloromethane	tert.- Butyl Alcohol
1-Chlorobutane	Dichlorofluoromethane
cis-1,3-Dichloropropene	Ethyl methacrylate
2-Hexanone	Isobutyl alcohol
Methyl methacrylate	Methyl cyclohexane
Methylene Chloride	2-Nitropropane
Pentane	1,1,1-Trichloroethane

Data File: 2324062716.D Page 1
Report Date: 28-Jun-2024 11:33

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062716.D
Lab Smp Id: 3366028006 Client Smp ID: HS24060985-06
Inj Date : 27-JUN-2024 16:09
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028006;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062716.D
Report Date: 28-Jun-2024 11:33

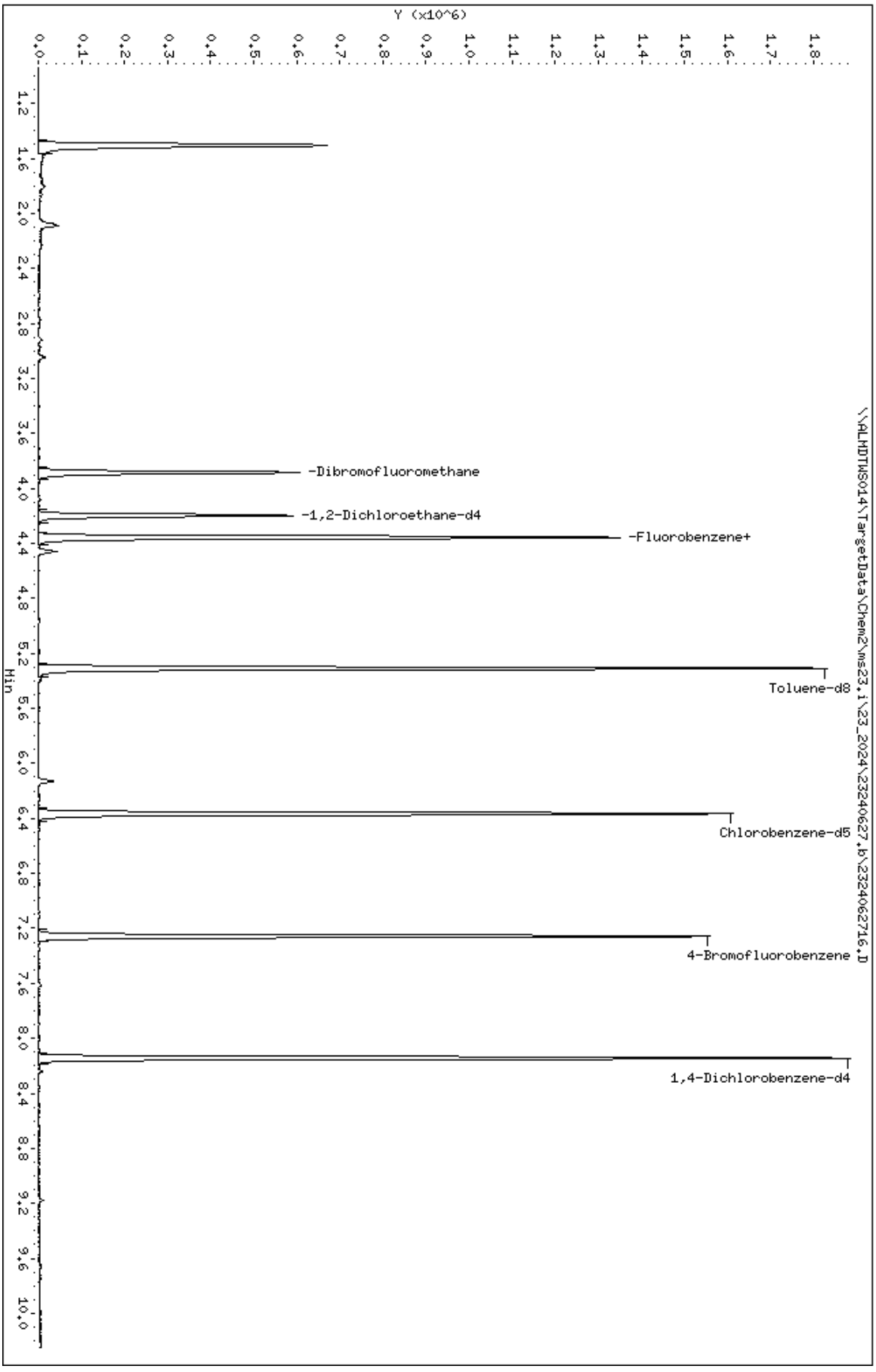
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.881	3.881	(0.891)	276568	29.6481	29.6481	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	362455	30.3511	30.3511	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	949257	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.458	4.458	(1.023)	9739	1.10016	1.10016	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	994218	30.2762	30.2762	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062716.D Page 3
Report Date: 28-Jun-2024 11:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.363	6.366	(1.000)	411986	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	404154	31.0782	31.0782	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.146	8.143	(1.000)	449517	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ALHDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23240627l6.D
Date : 27-JUN-2024 16:09
Client ID: HS24060985-06
Sample Info: 33660280061;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms23.i
Operator: ILY
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
Toluene-d8
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALHDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23240627l6.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062716.D Page 2

Date : 27-JUN-2024 16:09

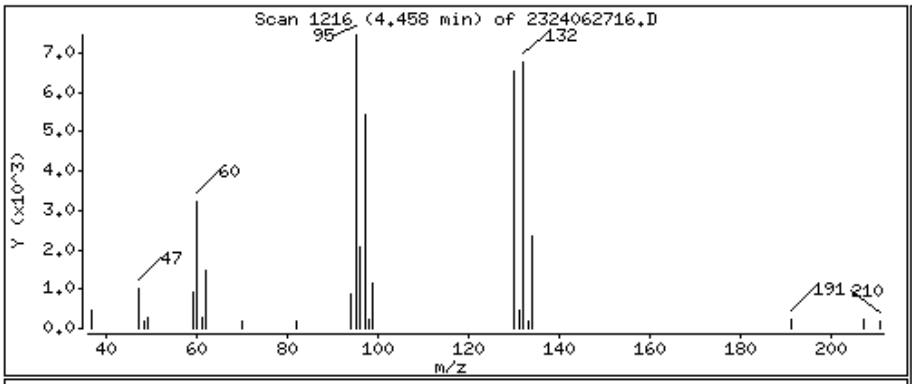
Client ID: HS24060985-06 Instrument: ms23.i

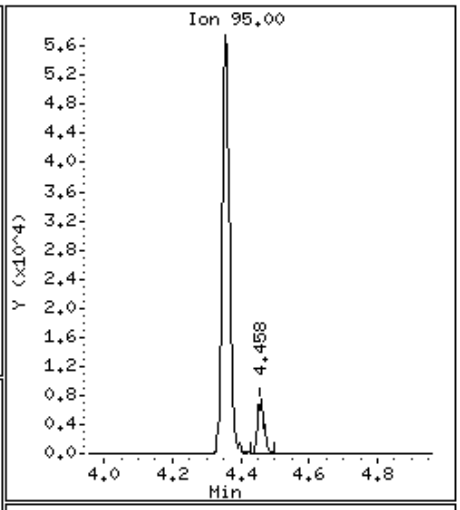
Sample Info: 3366028006;;1;;;;;

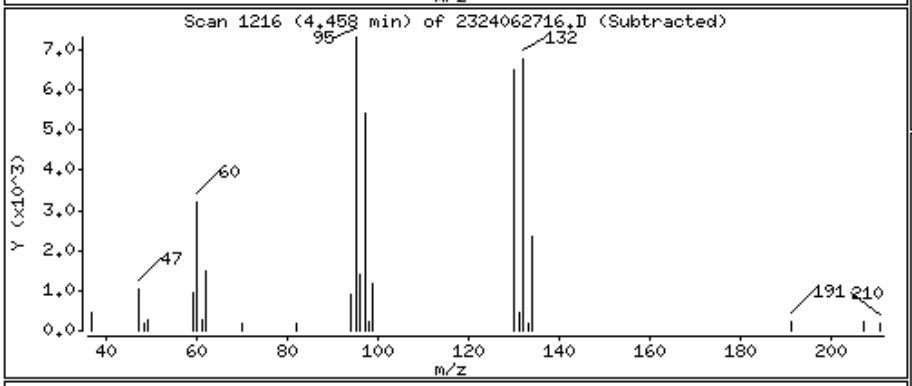
Purge Volume: 5.0 Operator: ILY

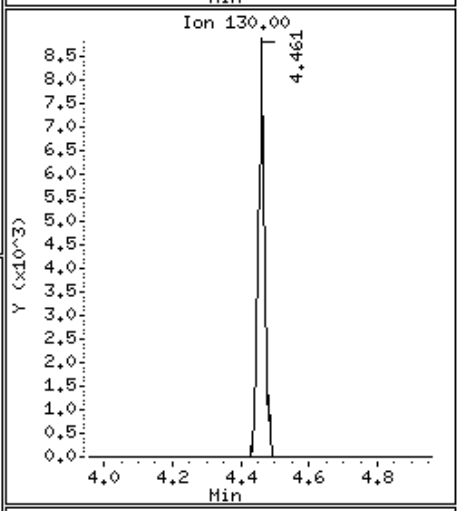
Column phase: DB-VRX Column diameter: 0.25

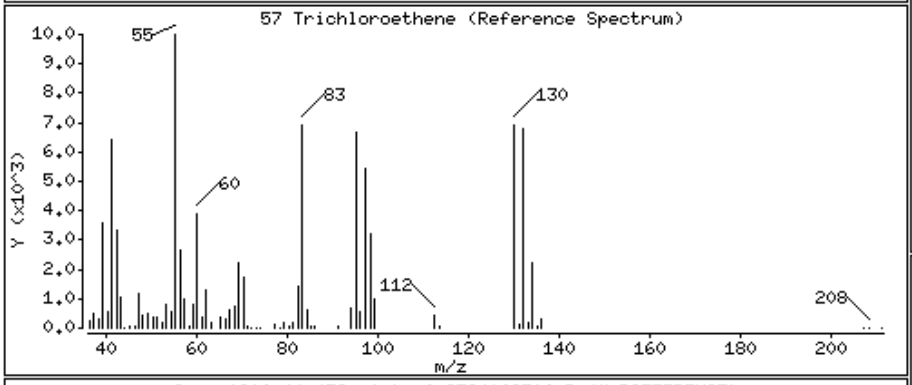
57 Trichloroethene Concentration: 1.10016 ug/L

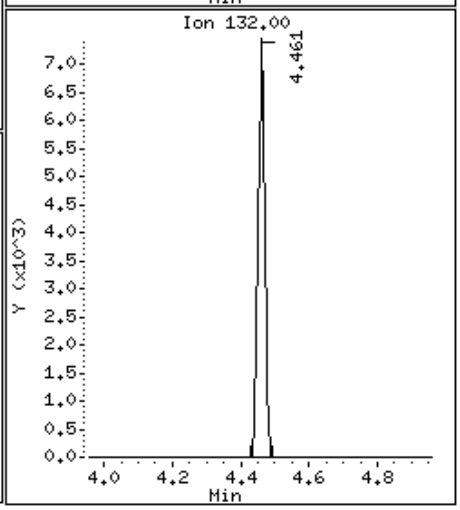


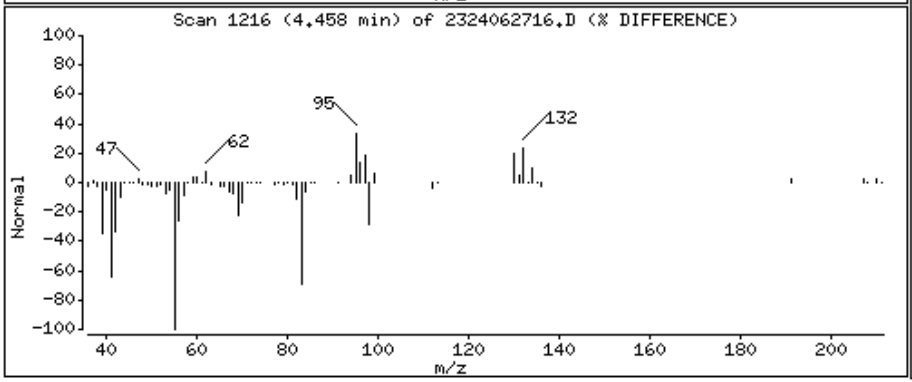












Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062716.D
Inj Date : 27-JUN-2024 16:09
InstruID : ms23.i
LabSampID : 3366028006

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:33
Client ID: HS24060985-06
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 16:09
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
2-Hexanone
Chloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2324062717.D Page 1
Report Date: 28-Jun-2024 11:34

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062717.D
Lab Smp Id: 3366028007 Client Smp ID: HS24060985-08
Inj Date : 27-JUN-2024 16:29
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028007;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.785	1.788	(0.410)	3225	0.37706	0.377060(a)	
3 Vinyl Chloride	62	1.849	1.852	(0.424)	18159	2.15522	2.15522	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.578	2.578	(0.592)	136261	12.7421	12.7421	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.596	2.593	(0.596)	88310	12.1402	12.1402	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	2.929	2.920	(0.672)	2298	3.21685	3.21685(aQ)	
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	9711	0.99052	0.990522(a)	
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062717.D Page 2
Report Date: 28-Jun-2024 11:34

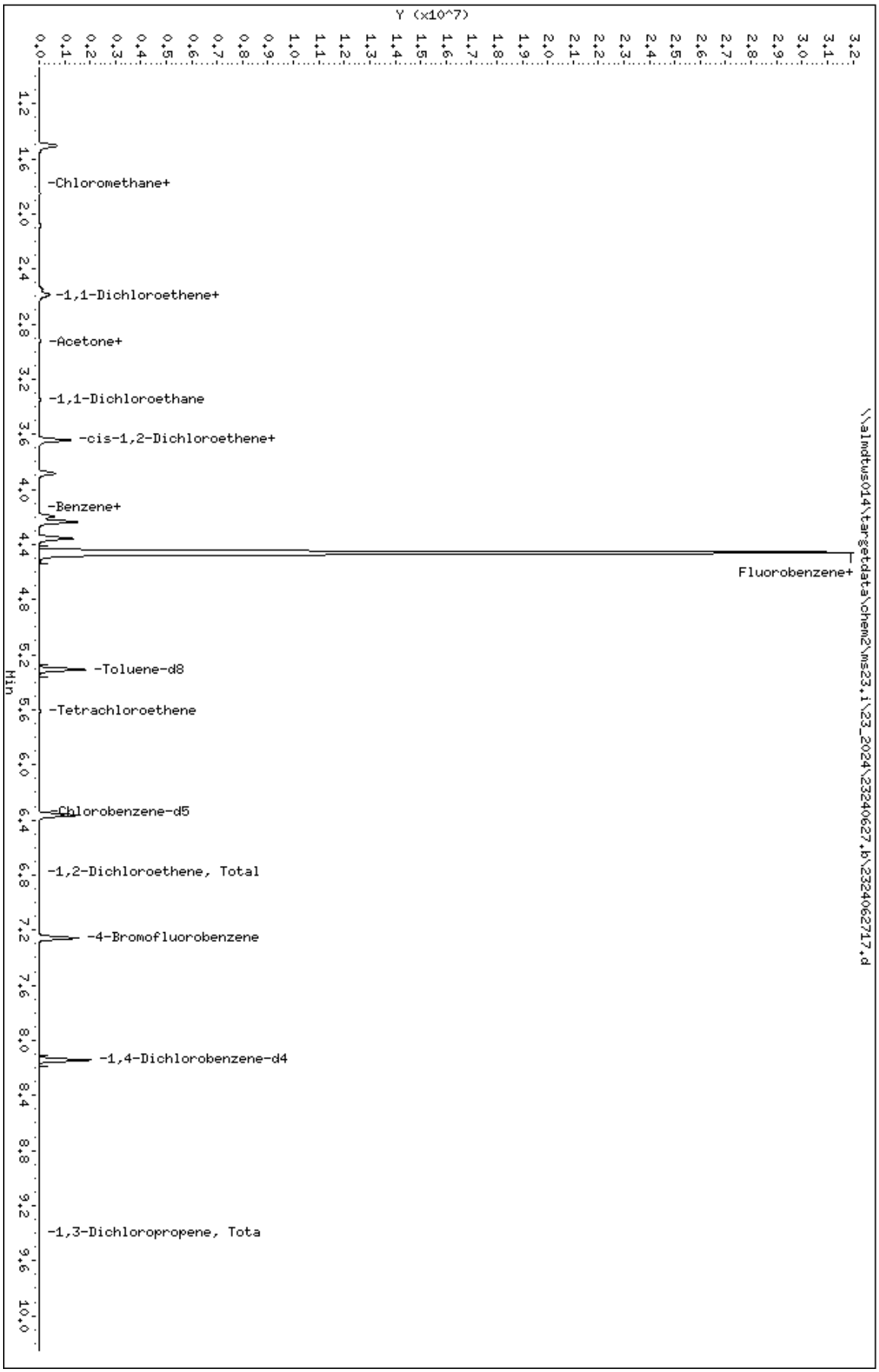
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.349	3.346	(0.769)	28485	2.23946	2.23946	
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	524941	51.7502	51.7502	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				534652	52.7408	52.7408	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.780	3.780	(0.868)	8556	0.50286	0.502857(a)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.884	3.881	(0.892)	282672	30.1411	30.1411	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	4.130	4.130	(0.948)	11095	0.38190	0.381897(a)	
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	403898	33.6414	33.6414	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.235	4.235	(0.972)	1069843	78.0476	78.0476	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	954336	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.458	4.458	(1.023)	8243774	926.297	926.297(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	997714	29.5941	29.5941	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.610	5.607	(0.882)	7873	0.87506	0.875060(a)	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062717.D Page 3
Report Date: 28-Jun-2024 11:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.363	6.366	(1.000)	422964	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	397059	28.0594	28.0594	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	489138	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d
Date : 27-JUN-2024 16:29
Client ID: HS24060985-08
Sample Info: 336602800?;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 2

Date : 27-JUN-2024 16:29

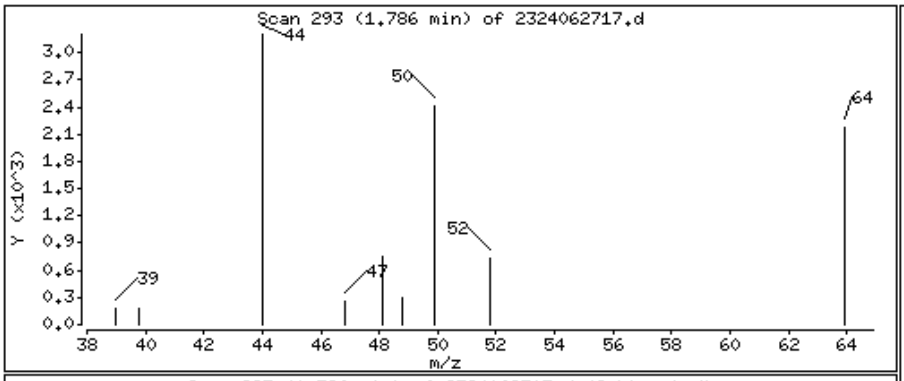
Client ID: HS24060985-08 Instrument: ms23.i

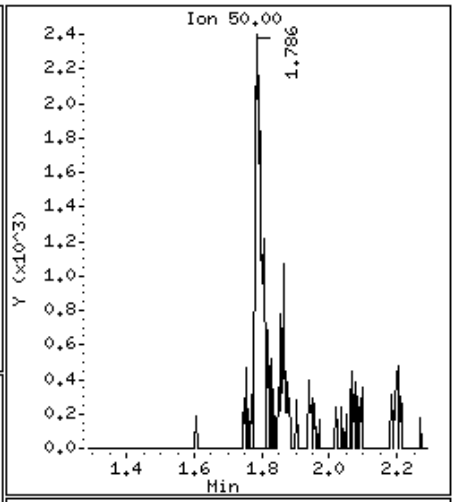
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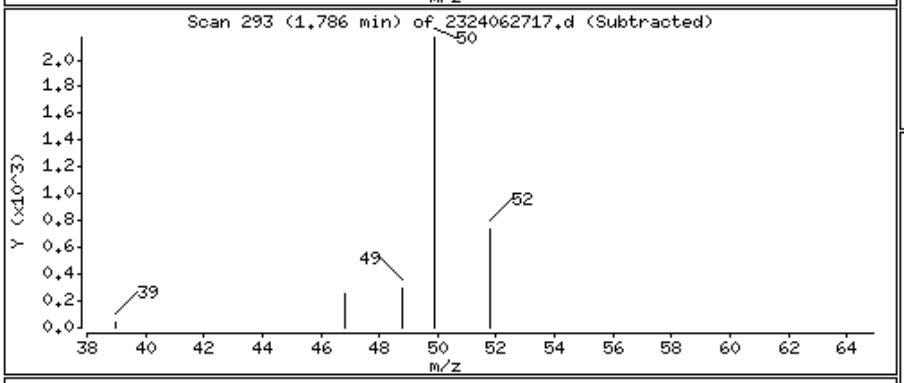
Purge Volume: 5.0 Operator: ILY

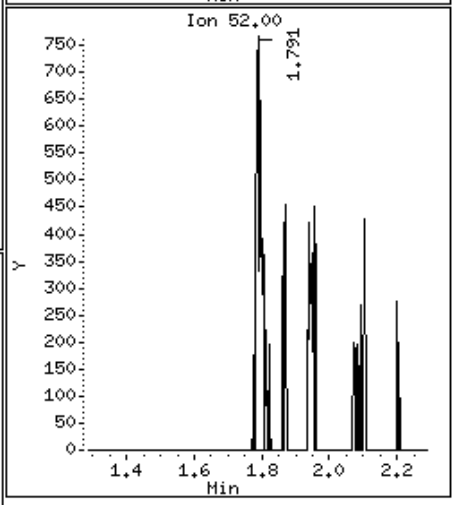
Column phase: DB-VRX Column diameter: 0.25

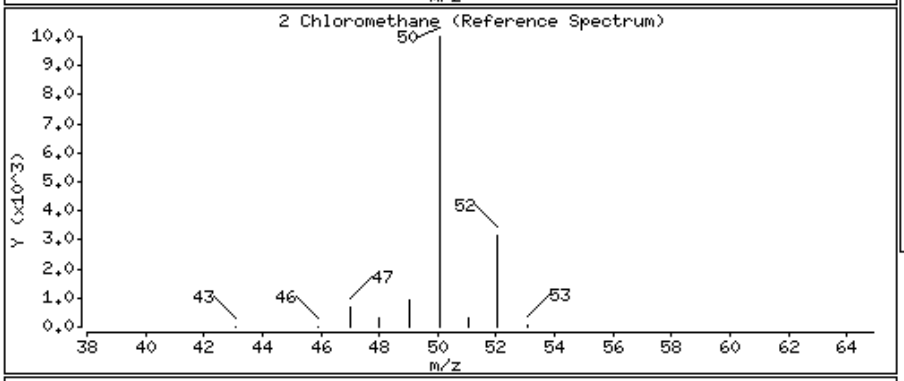
2 Chloromethane Concentration: 0.377060 ug/L

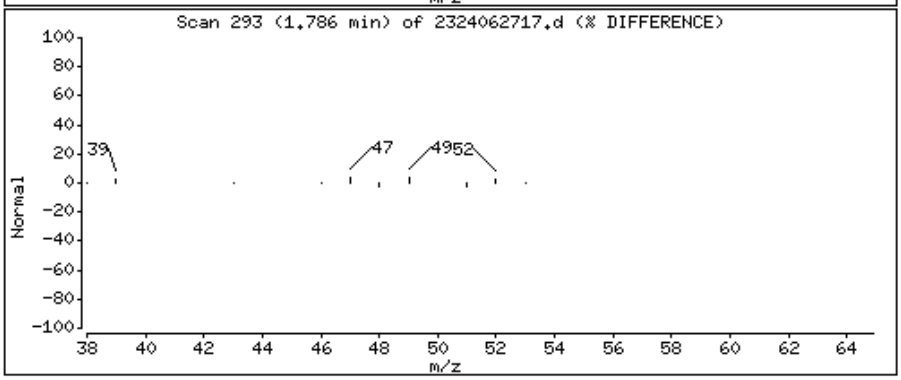












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 3

Date : 27-JUN-2024 16:29

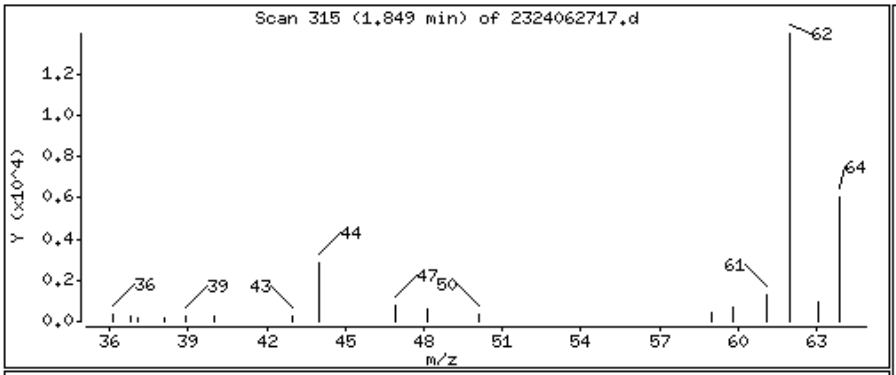
Client ID: HS24060985-08 Instrument: ms23.i

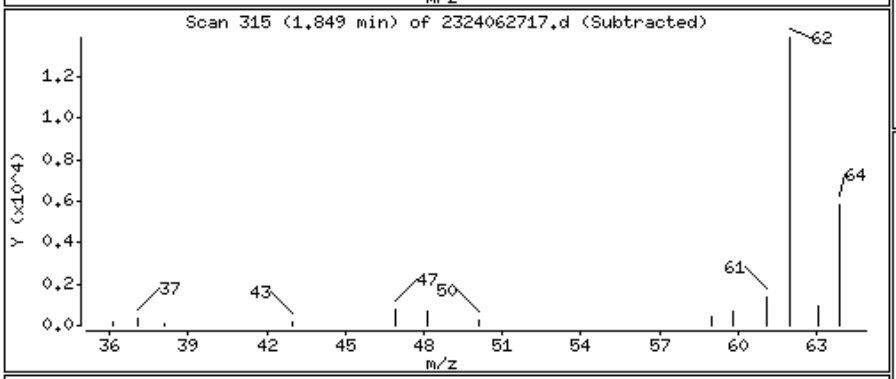
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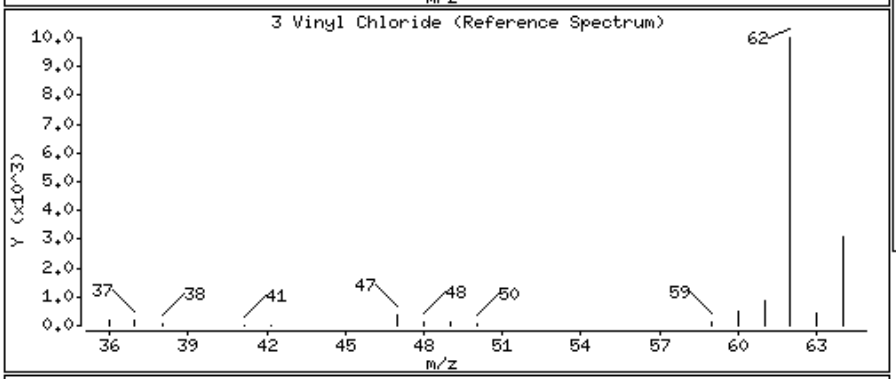
Purge Volume: 5.0 Operator: ILY

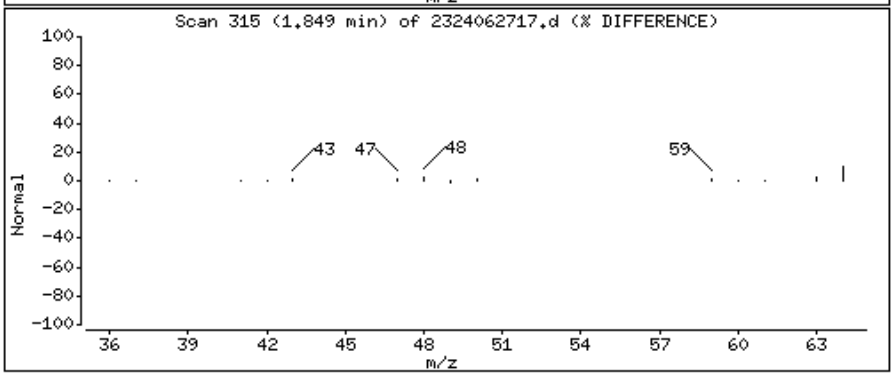
Column phase: DB-VRX Column diameter: 0.25

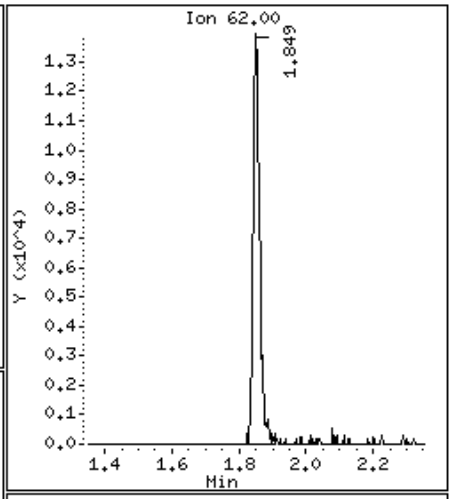
3 Vinyl Chloride Concentration: 2.15522 ug/L

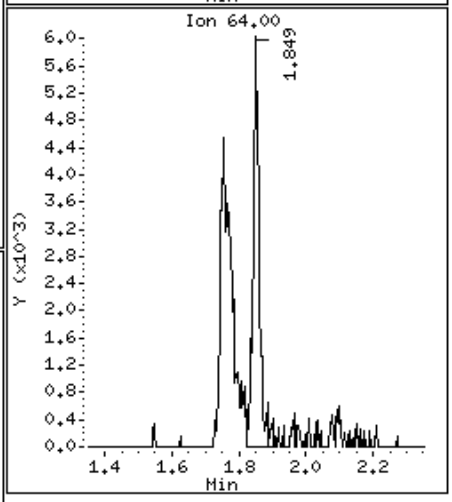












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 4

Date : 27-JUN-2024 16:29

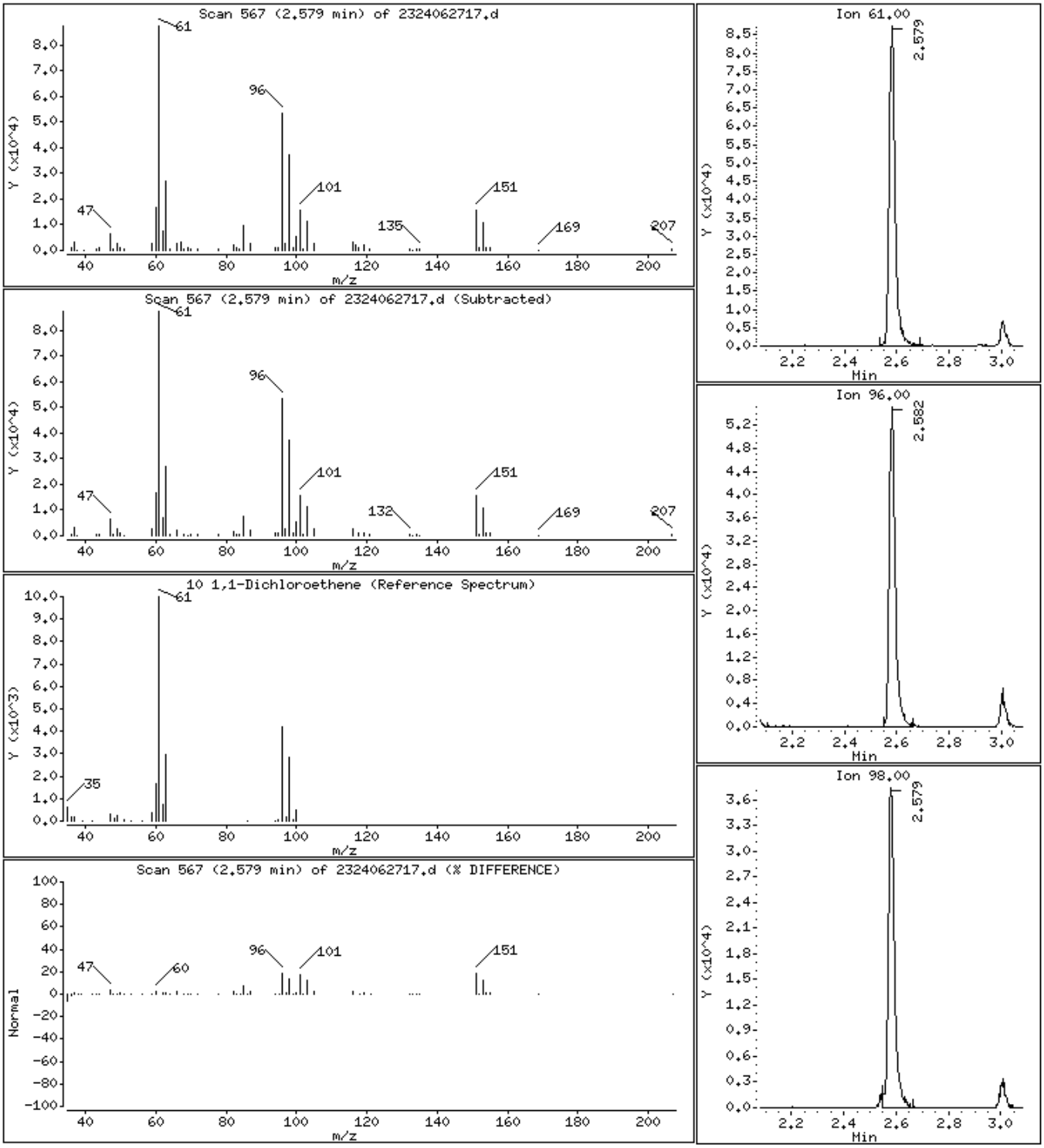
Client ID: HS24060985-08 Instrument: ms23.i

Sample Info: 3366028007;;1;;;;;

Purge Volume: 5.0 Operator: ILY

Column phase: DB-VRX Column diameter: 0.25

10 1,1-Dichloroethene Concentration: 12.7421 ug/L



Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 5

Date : 27-JUN-2024 16:29

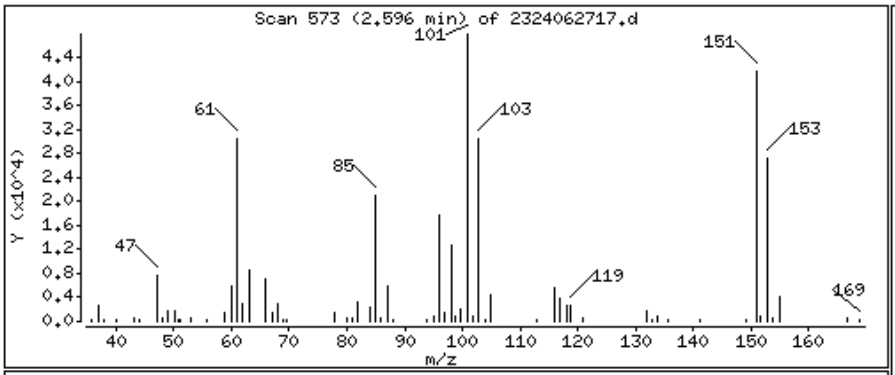
Client ID: HS24060985-08 Instrument: ms23.i

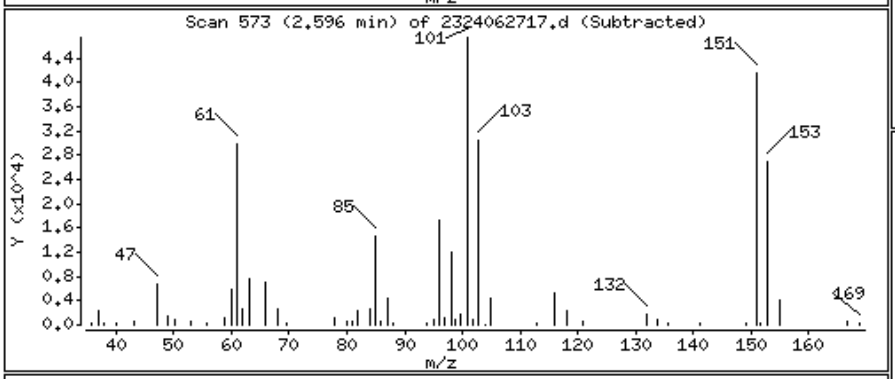
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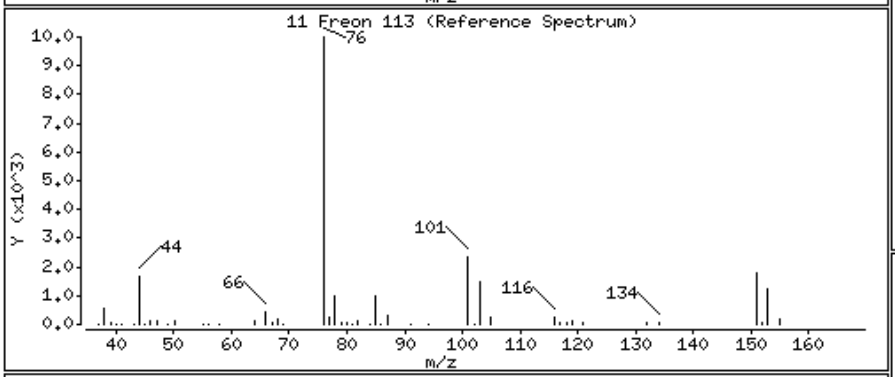
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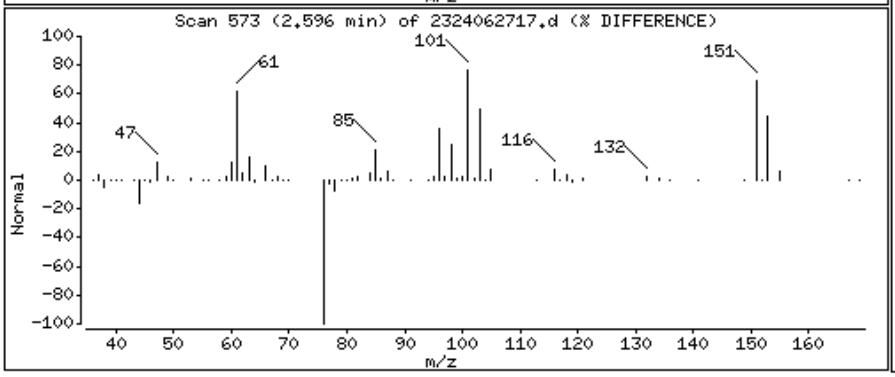
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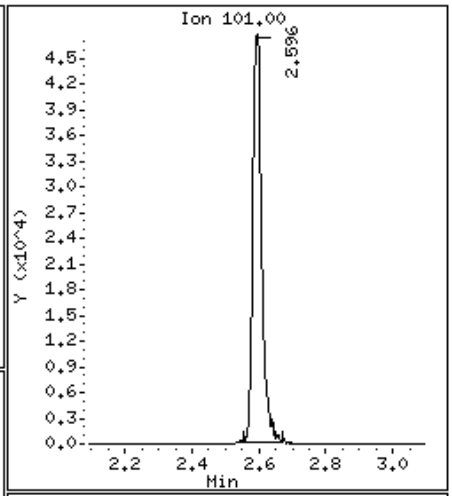
11 Freon 113 Concentration: 12.1402 ug/L

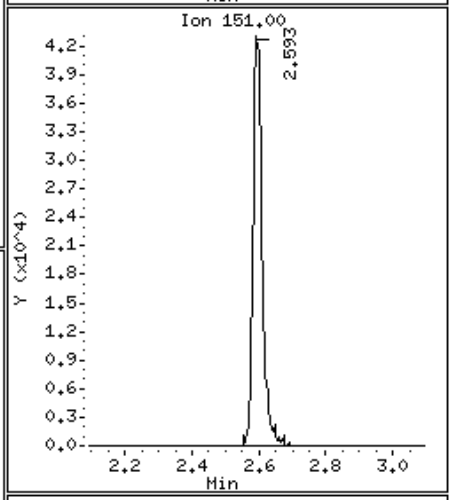


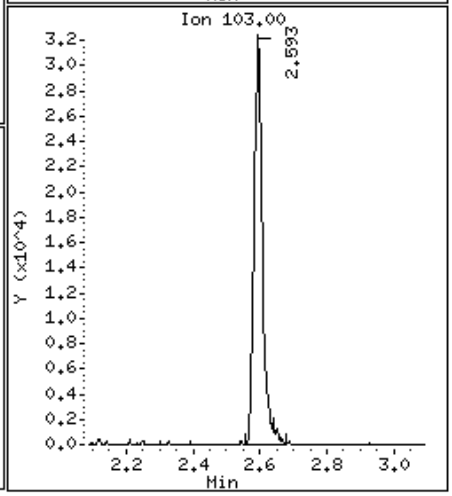












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 6

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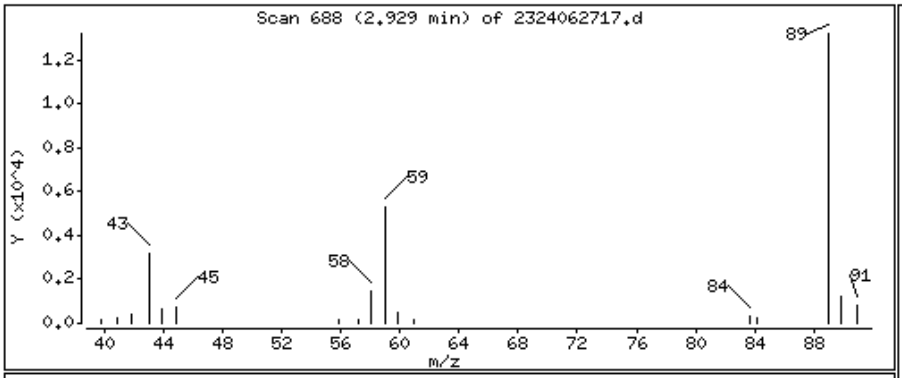
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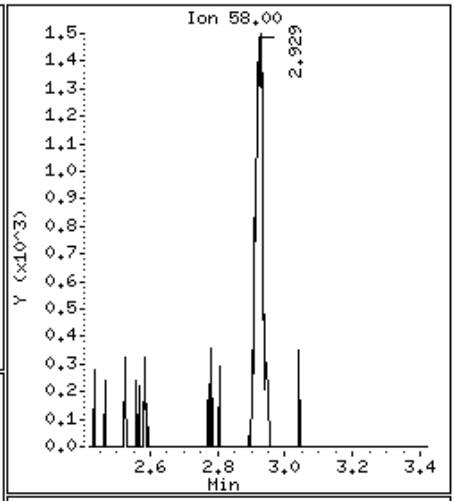
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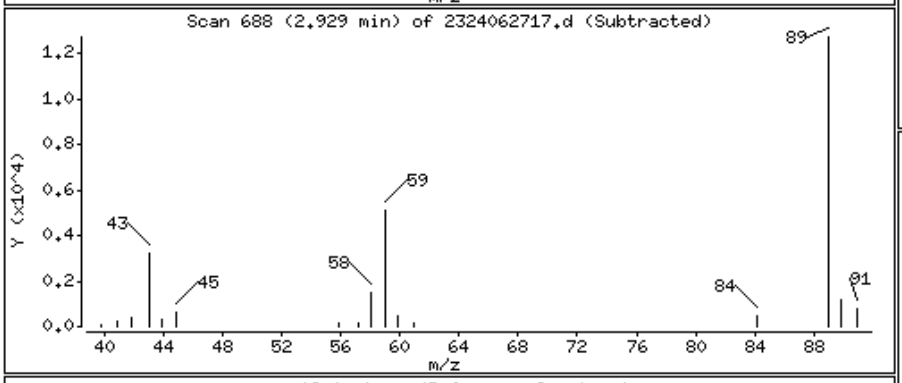
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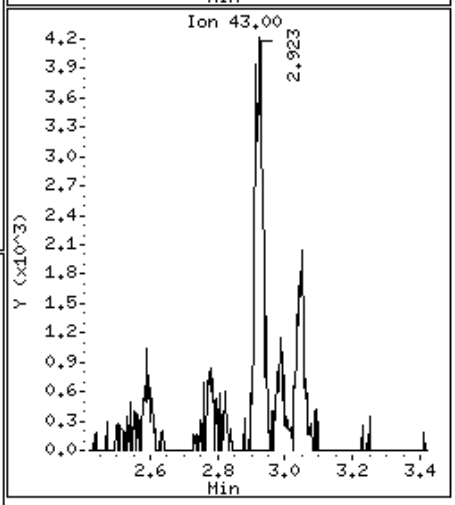
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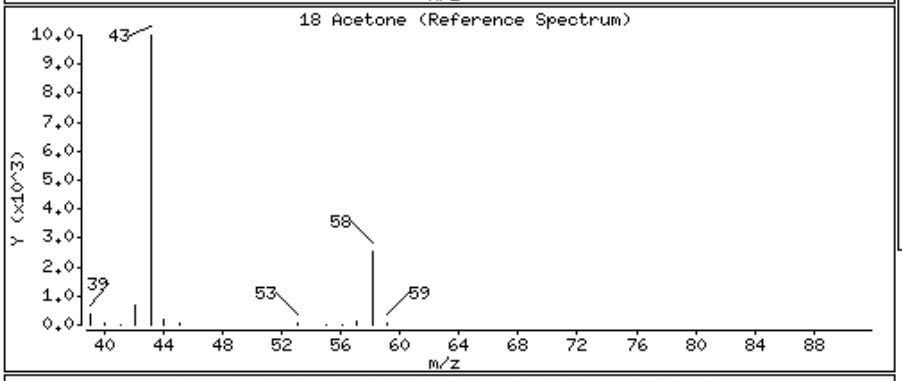
18 Acetone Concentration: 3.21685 ug/L

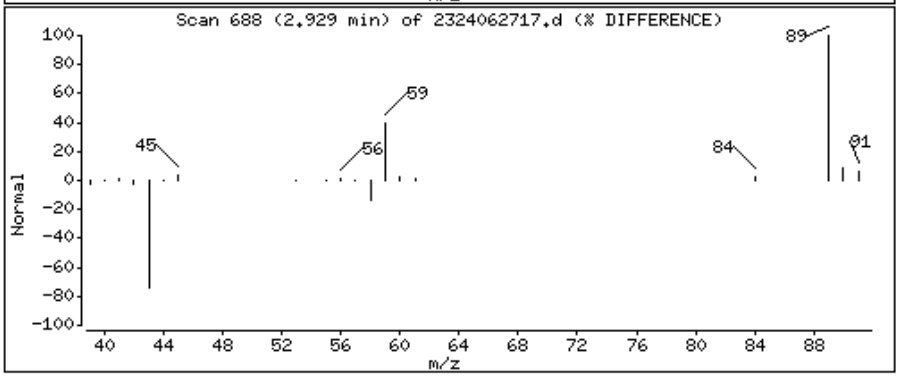












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 7

Date : 27-JUN-2024 16:29

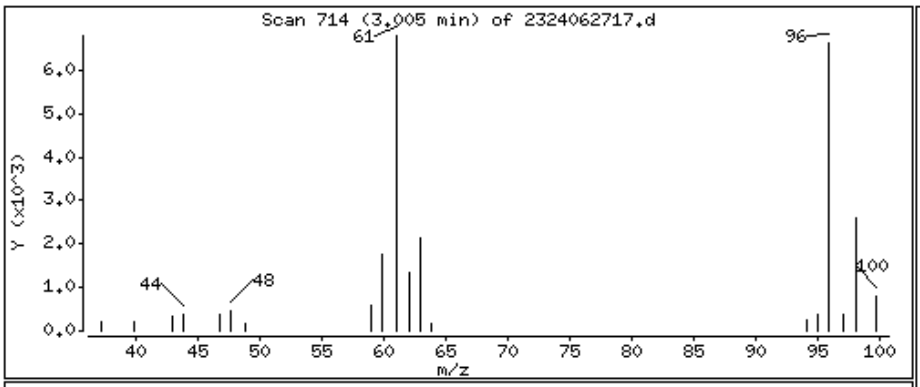
Client ID: HS24060985-08 Instrument: ms23.i

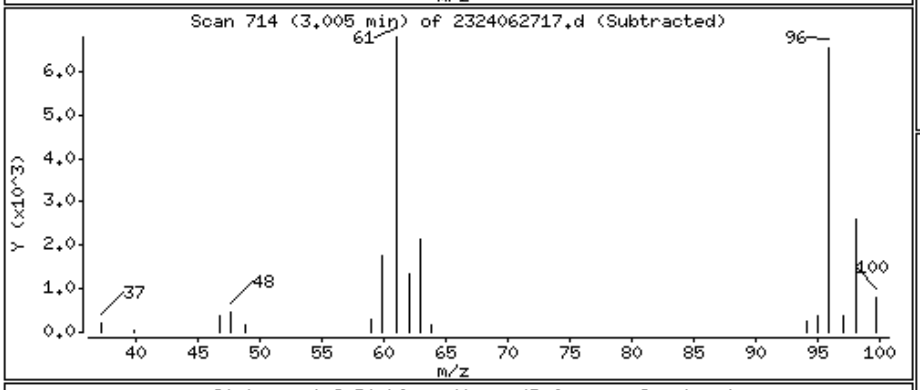
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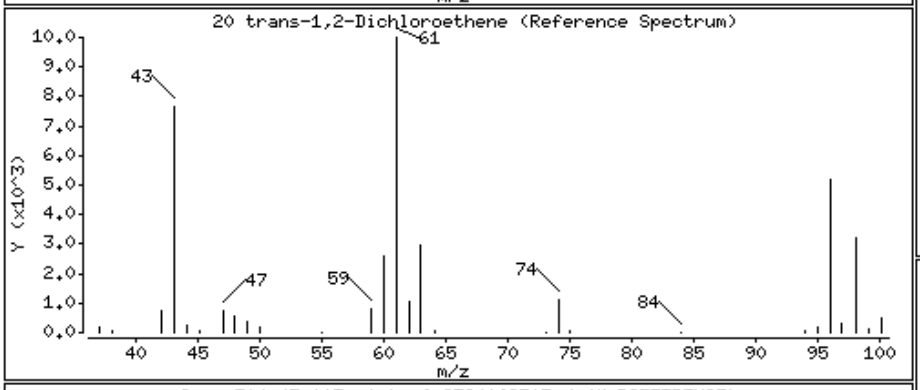
Purge Volume: 5.0 Operator: ILY

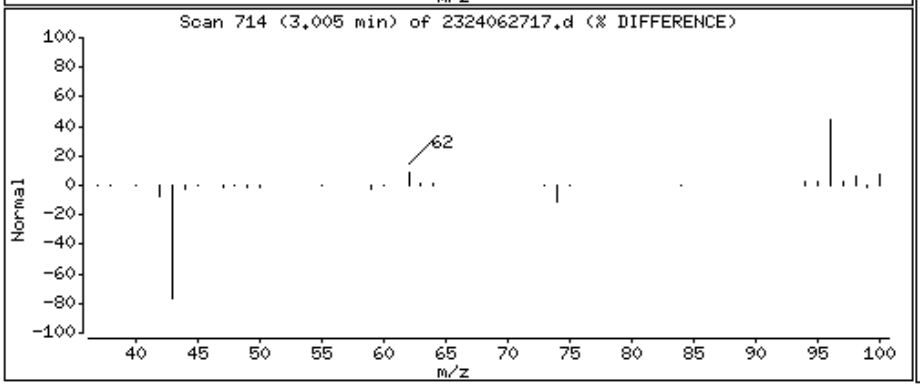
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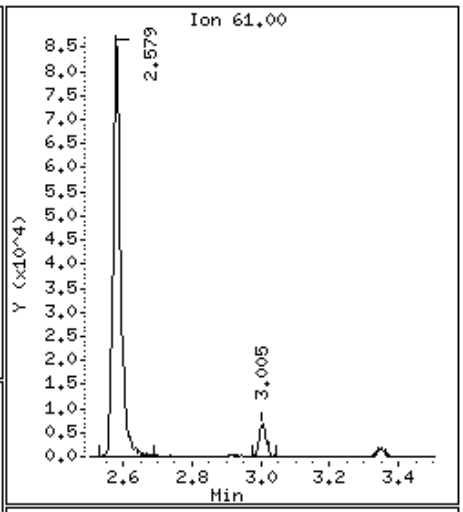
20 trans-1,2-Dichloroethene Concentration: 0.990522 ug/L

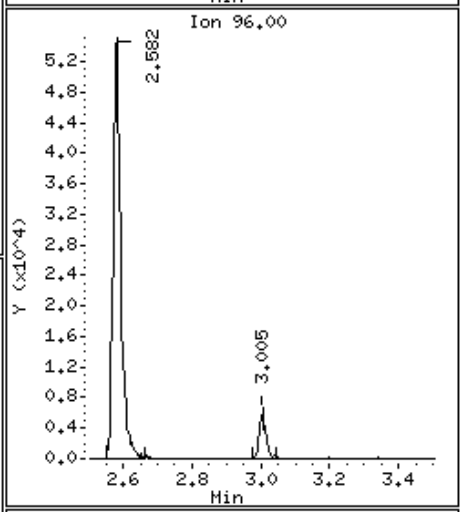


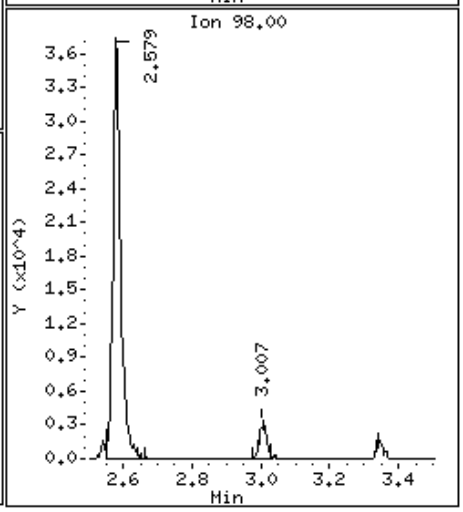












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 8

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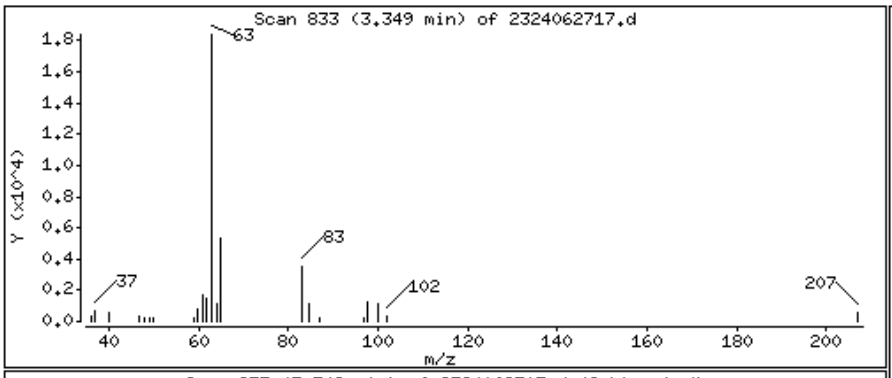
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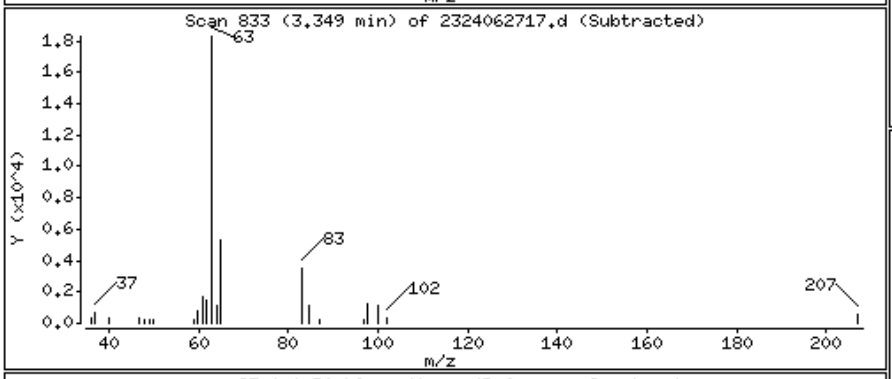
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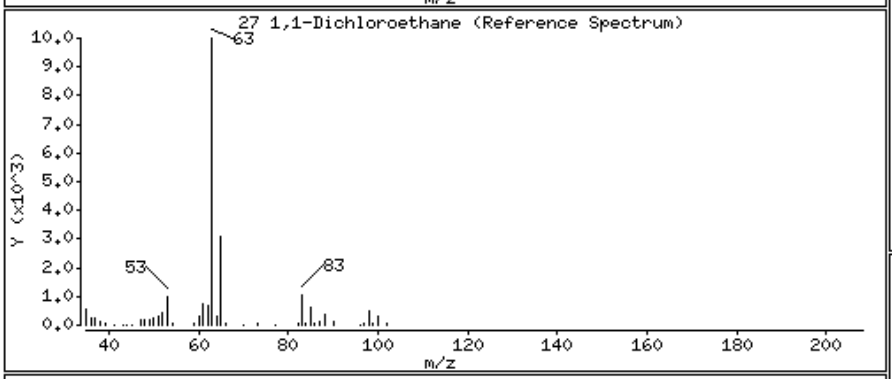
Purge Volume: 5.0 Operator: ILY

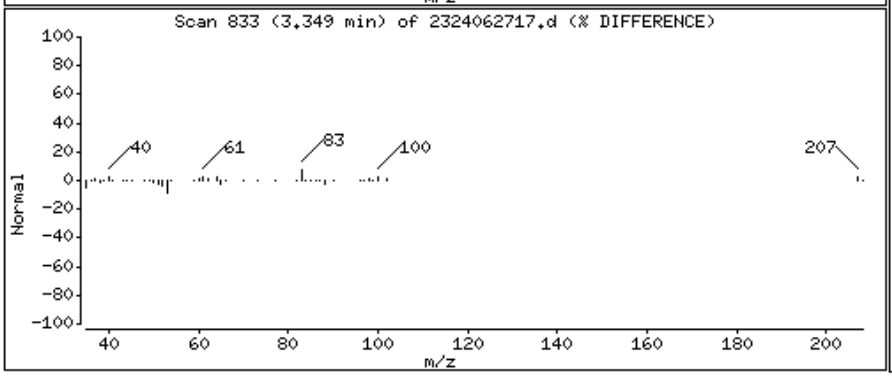
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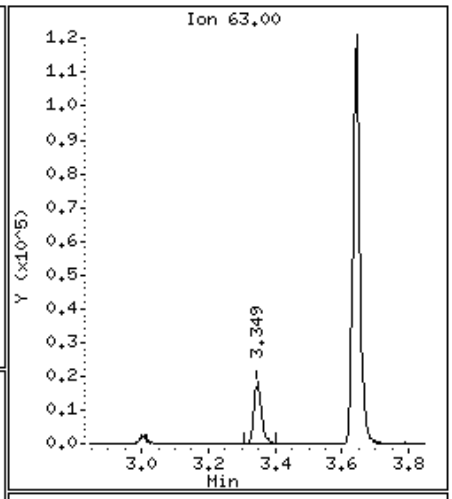
27 1,1-Dichloroethane Concentration: 2.23946 ug/L

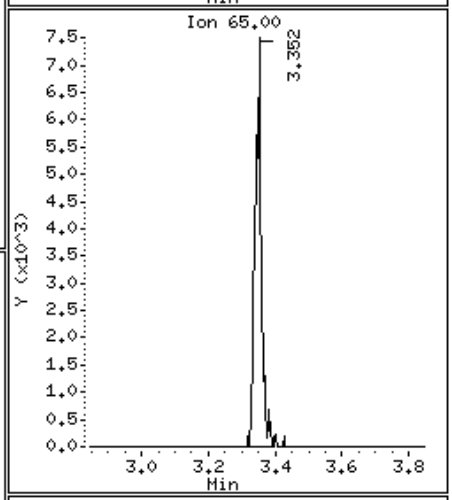


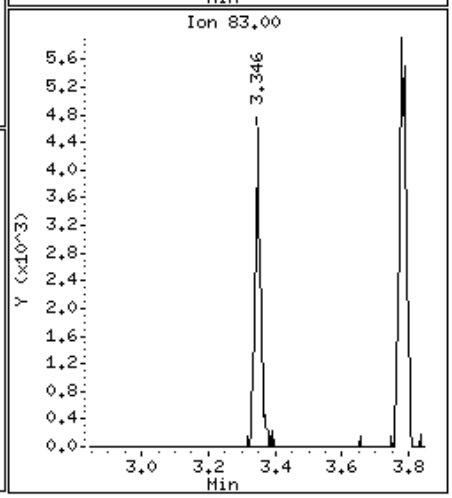












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 9

Date : 27-JUN-2024 16:29

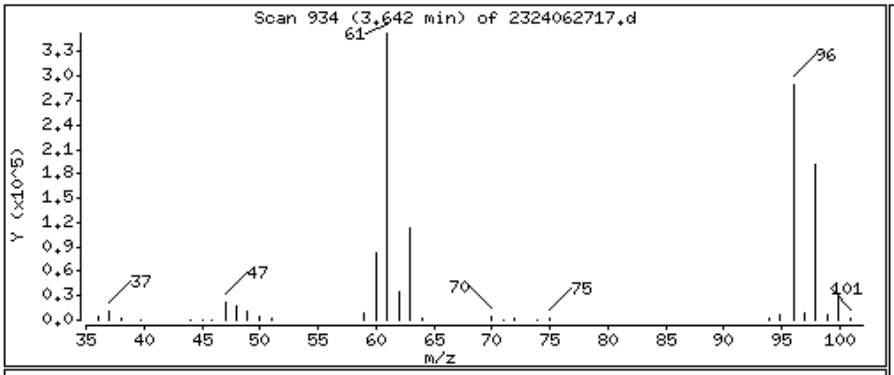
Client ID: HS24060985-08 Instrument: ms23.i

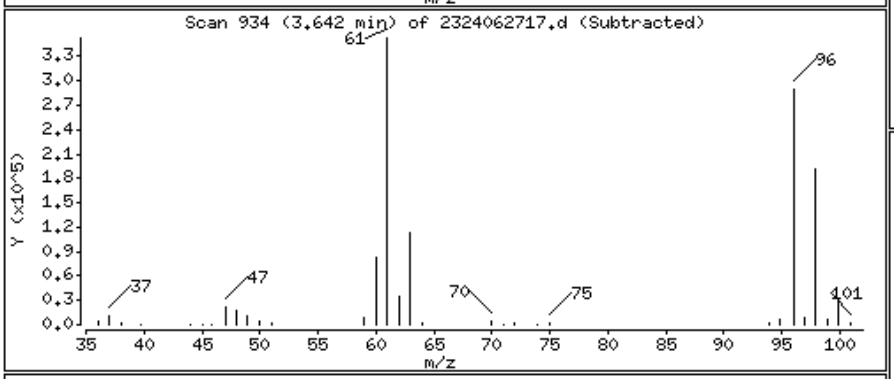
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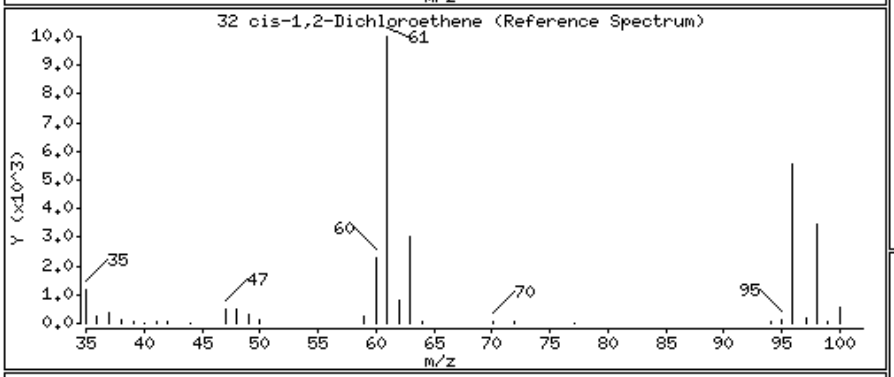
Purge Volume: 5.0 Operator: ILY

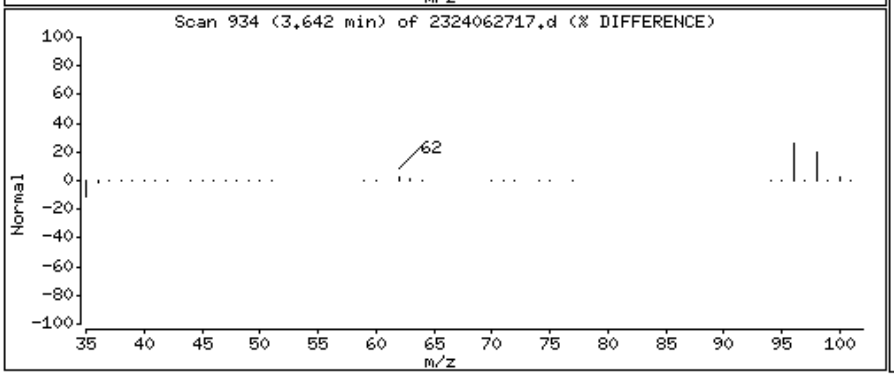
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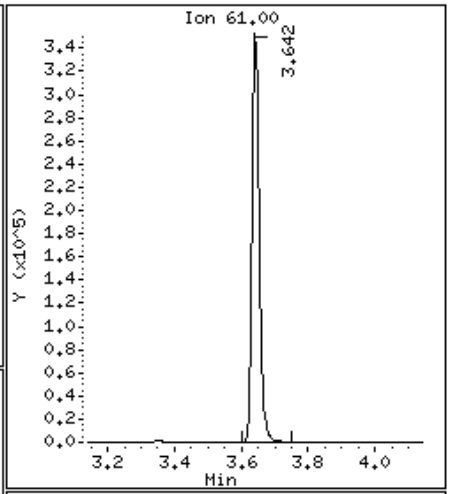
32 cis-1,2-Dichloroethene Concentration: 51.7502 ug/L

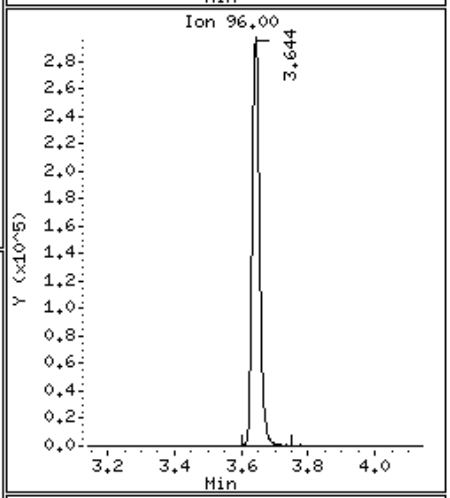


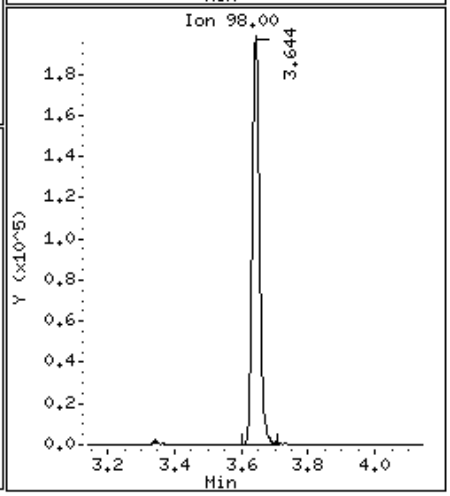












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 10

Date : 27-JUN-2024 16:29

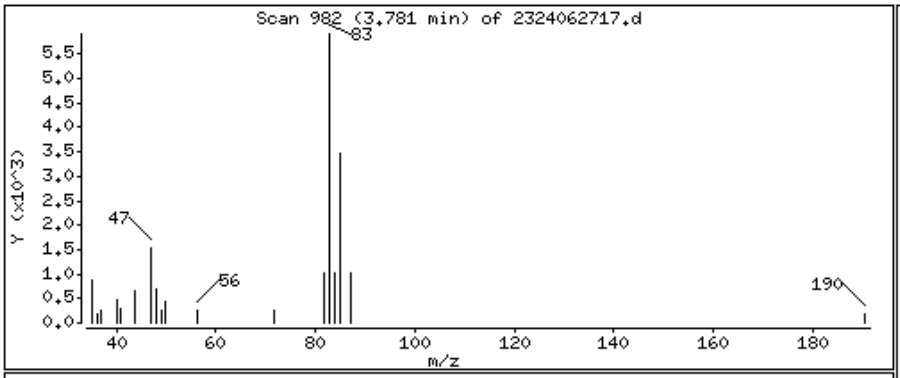
Client ID: HS24060985-08 Instrument: ms23.i

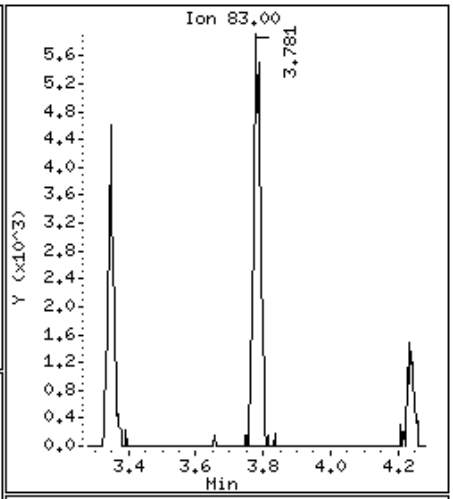
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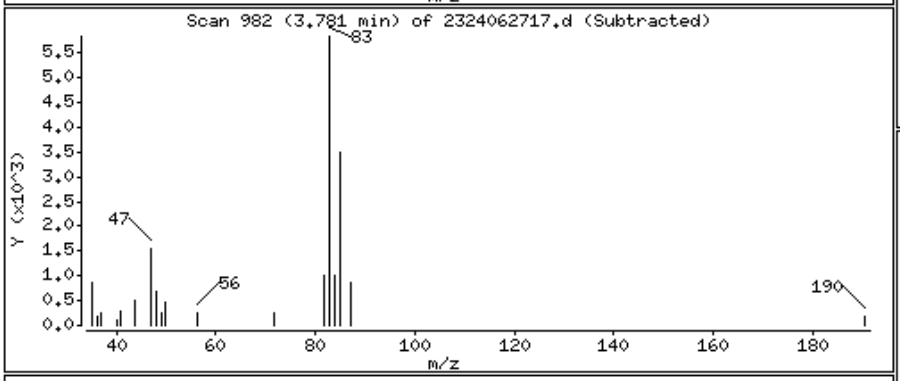
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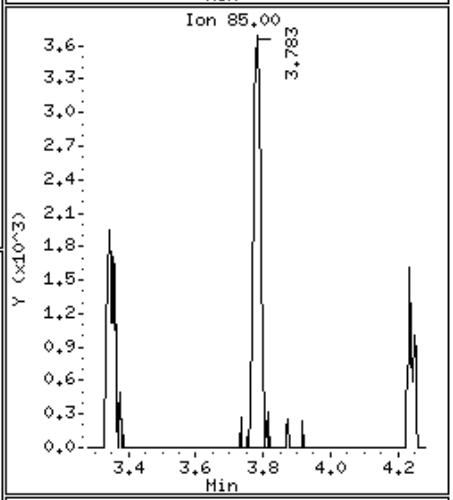
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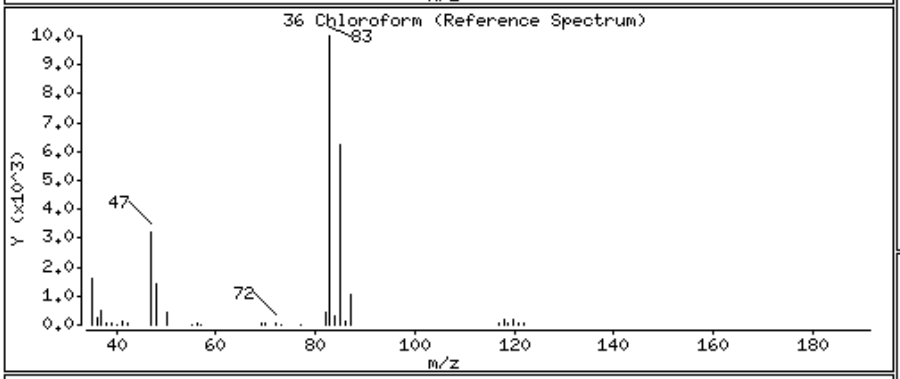
36 Chloroform Concentration: 0.502857 ug/L

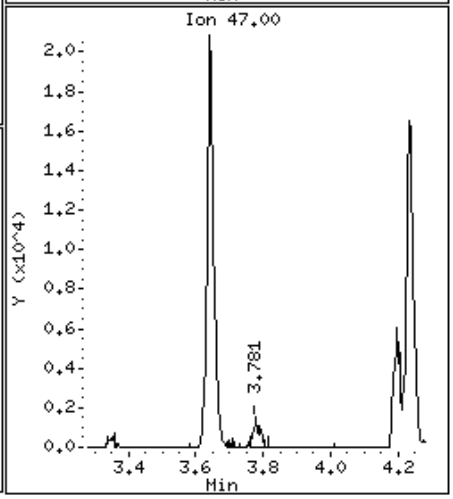


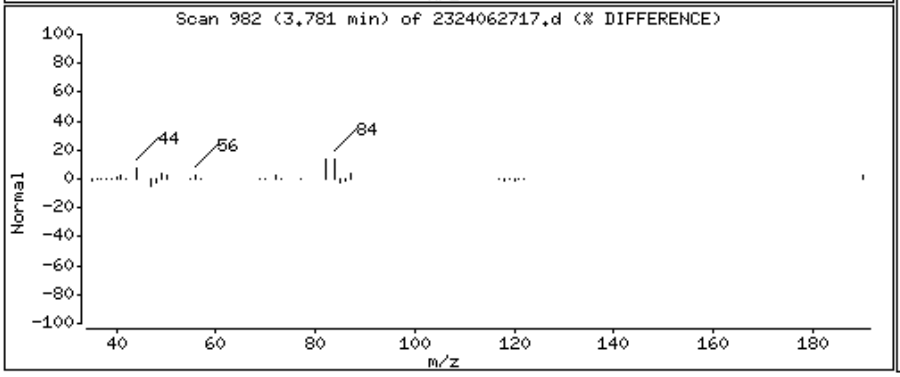












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 11

Date : 27-JUN-2024 16:29

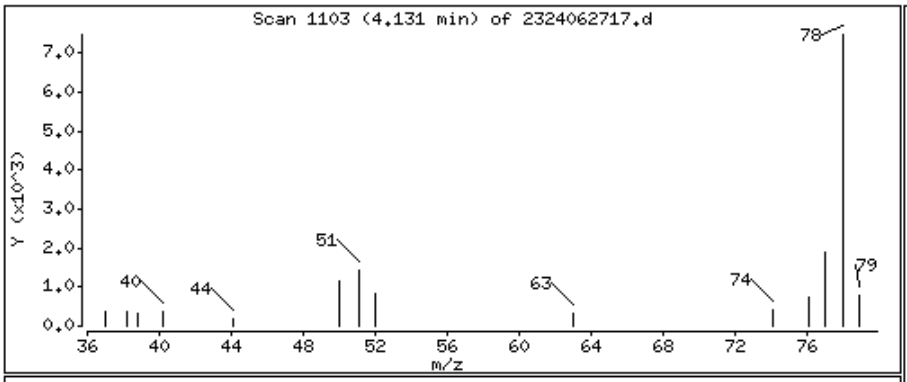
Client ID: HS24060985-08 Instrument: ms23.i

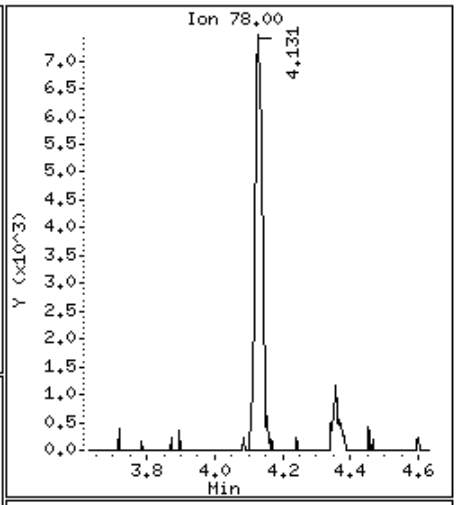
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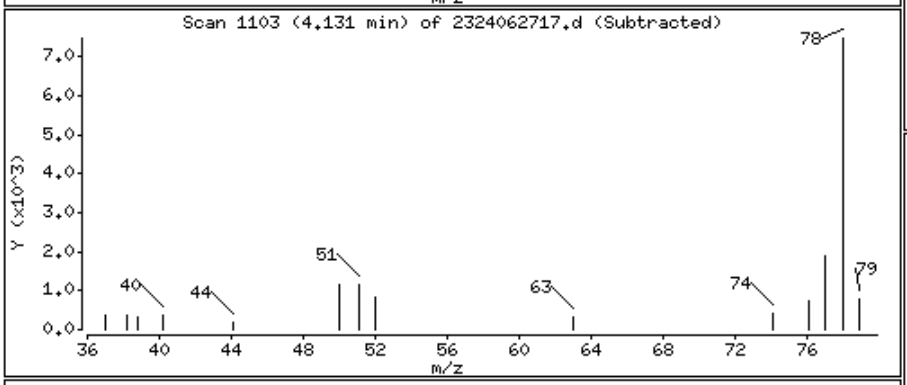
Purge Volume: 5.0 Operator: ILY

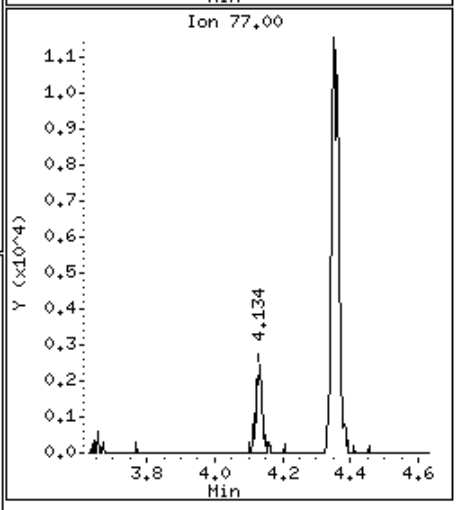
Column phase: DB-VRX Column diameter: 0.25

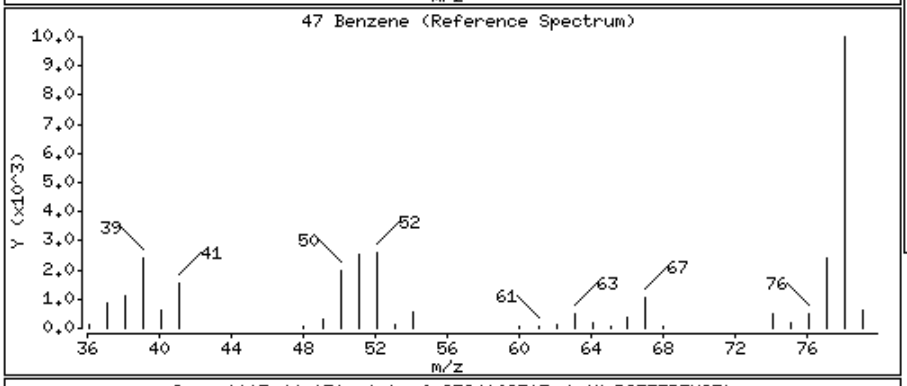
47 Benzene Concentration: 0.381897 ug/L

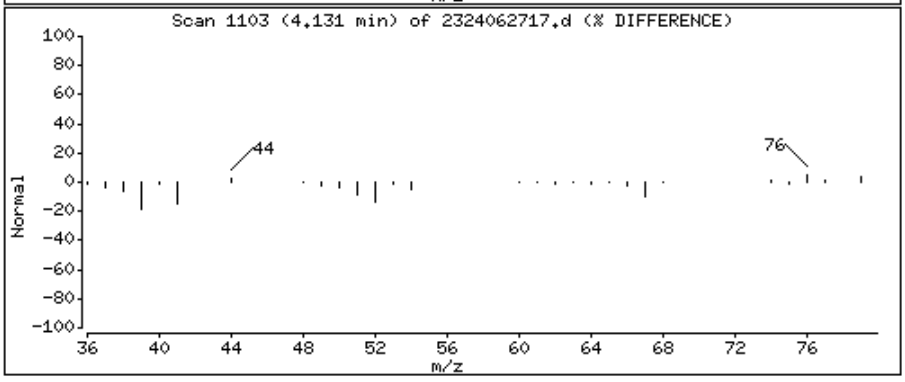












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 12

Date : 27-JUN-2024 16:29

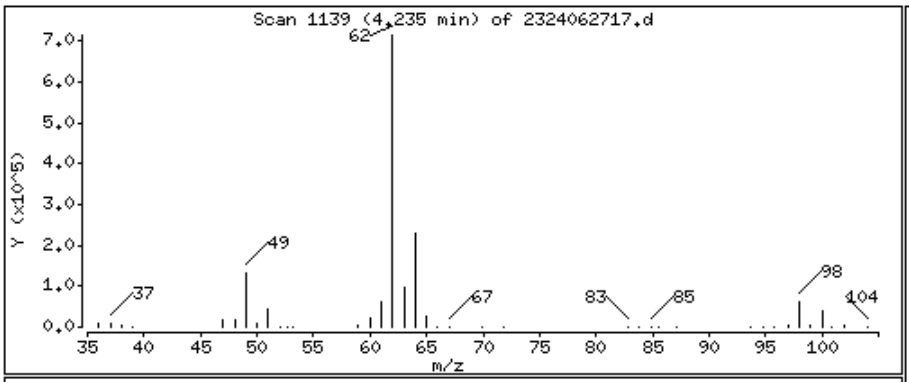
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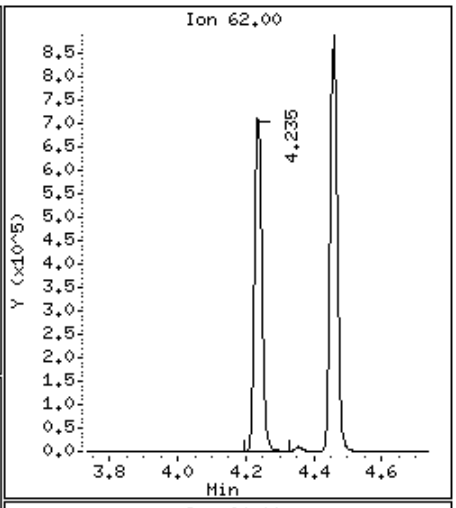
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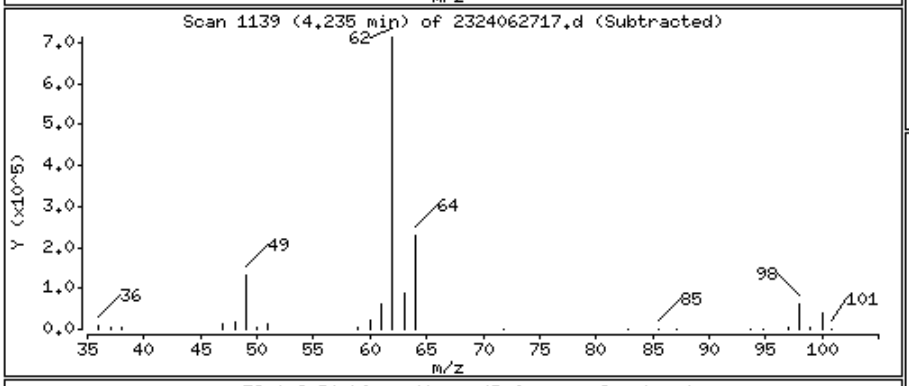
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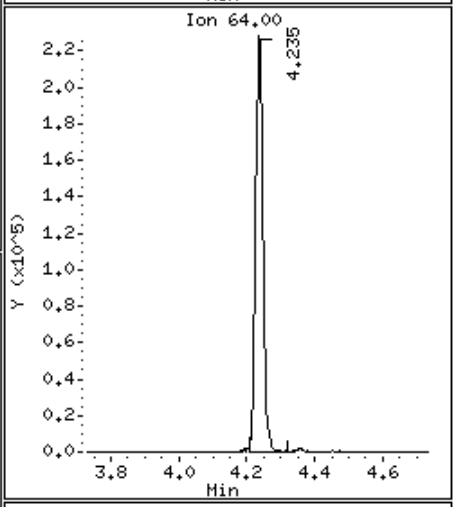
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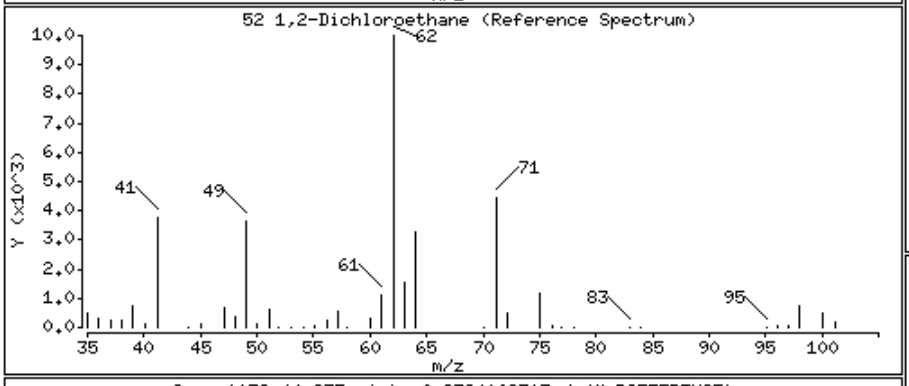
52 1,2-Dichloroethane Concentration: 78.0476 ug/L

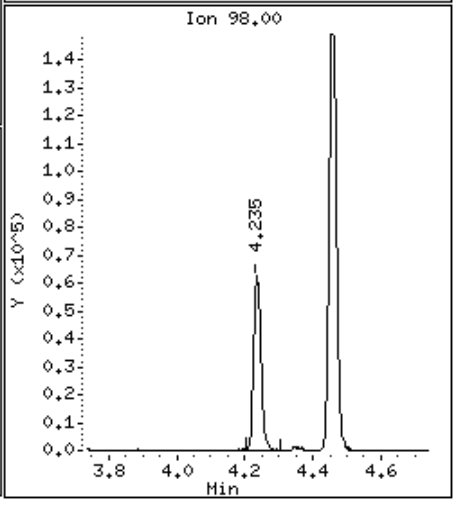


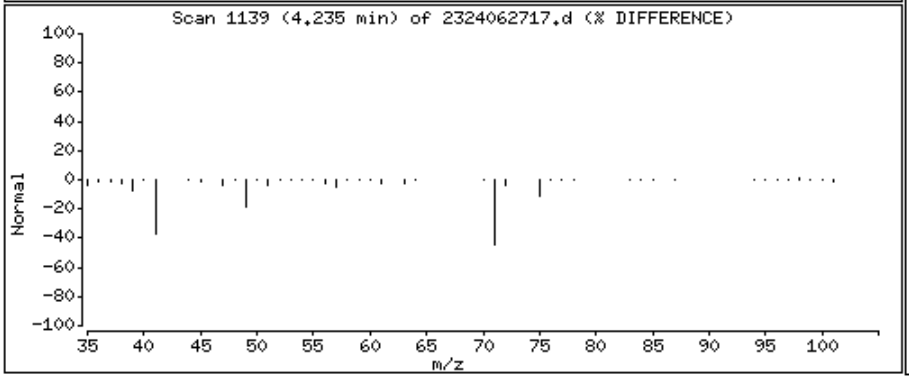












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 13

Date : 27-JUN-2024 16:29

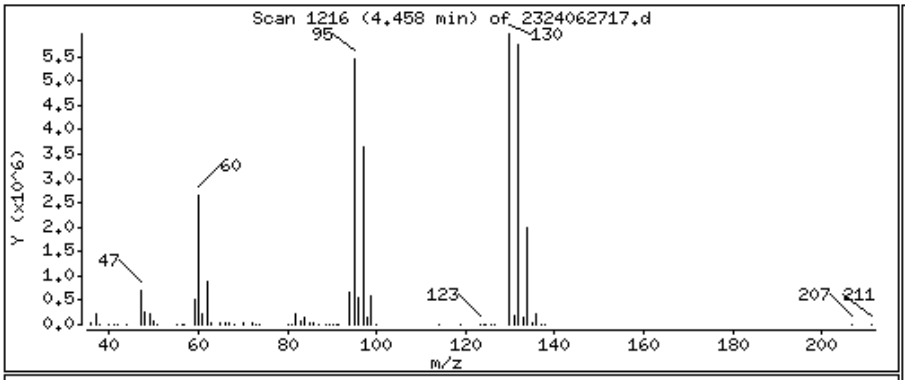
Client ID: HS24060985-08 Instrument: ms23.i

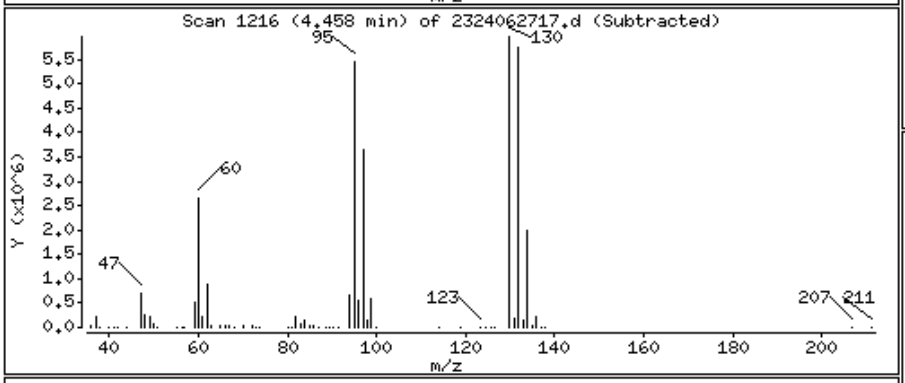
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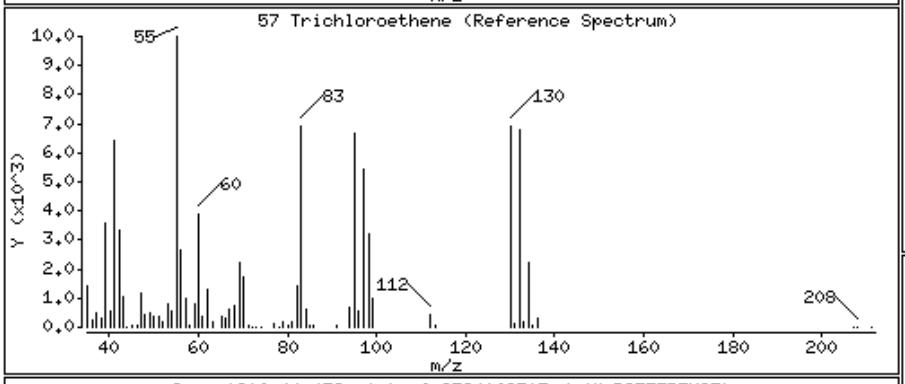
Purge Volume: 5.0 Operator: ILY

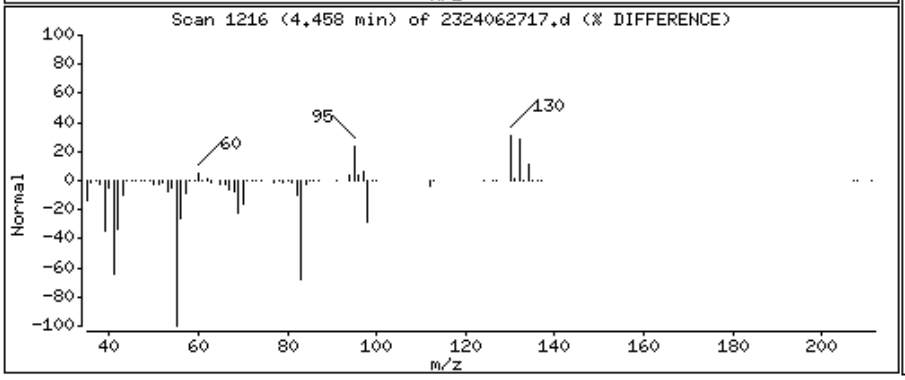
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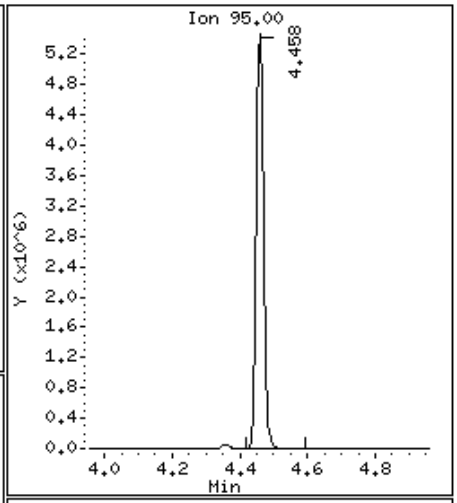
57 Trichloroethene Concentration: 926.297 ug/L

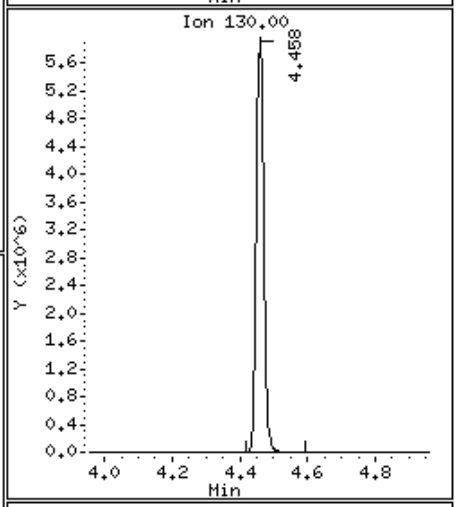


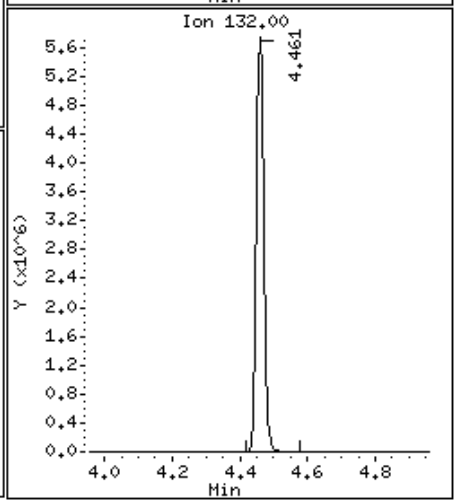












Data File: \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d Page 14

Date : 27-JUN-2024 16:29

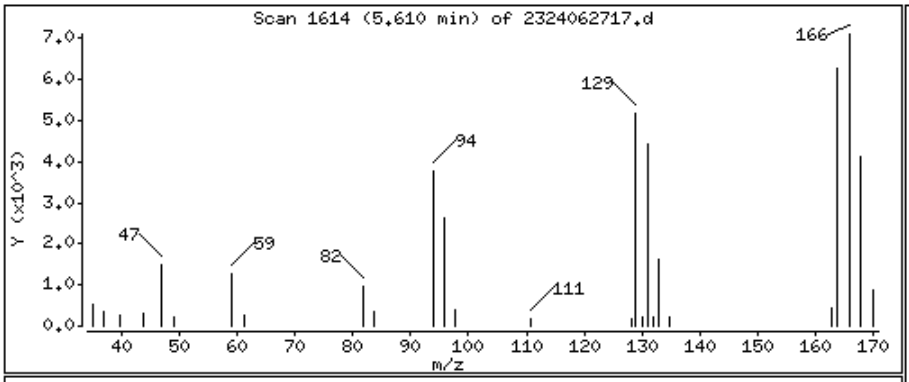
Client ID: HS24060985-08 Instrument: ms23.i

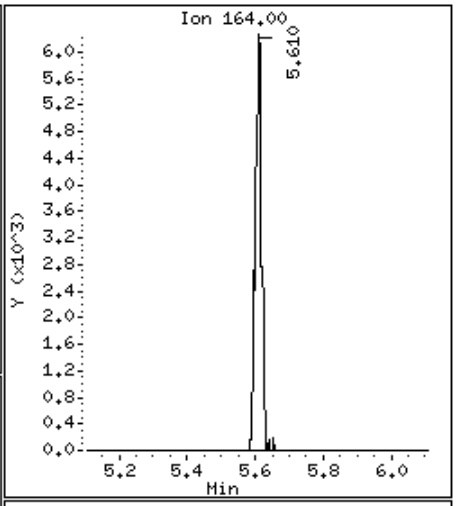
Sample Info: 3366028007;;1;;;;;

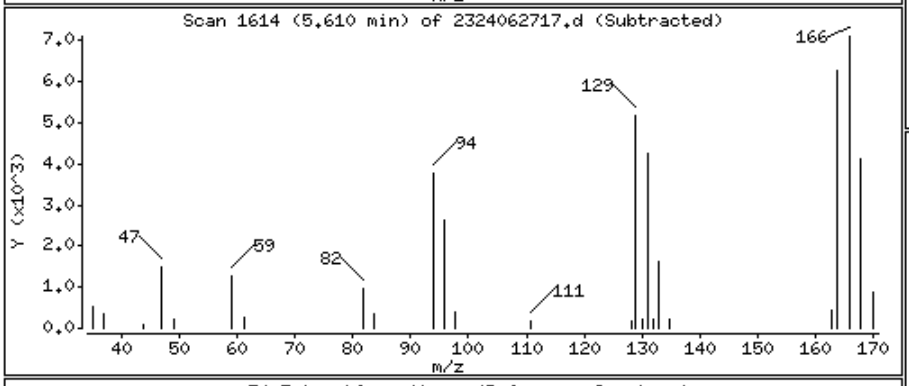
Purge Volume: 5.0 Operator: ILY

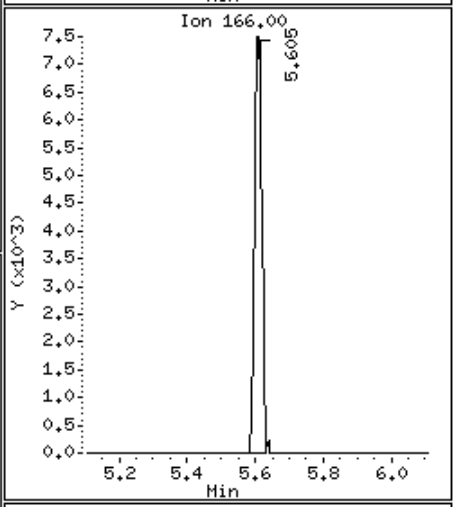
Column phase: DB-VRX Column diameter: 0.25

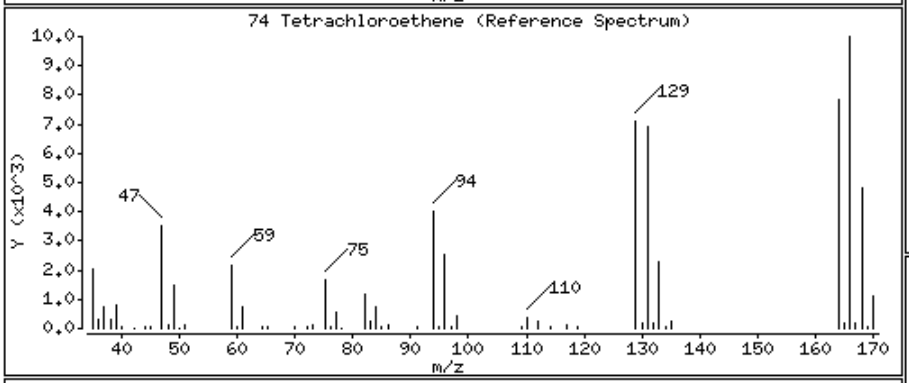
74 Tetrachloroethene Concentration: 0.875060 ug/L

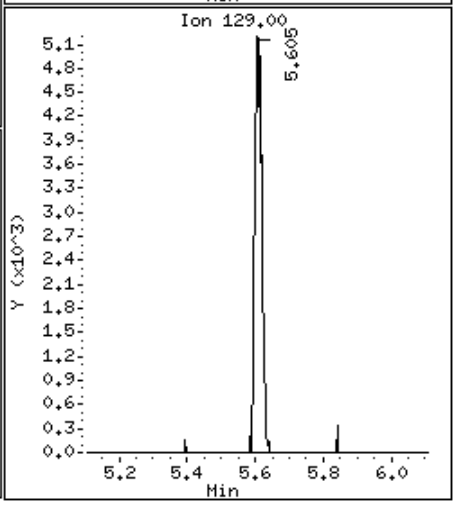


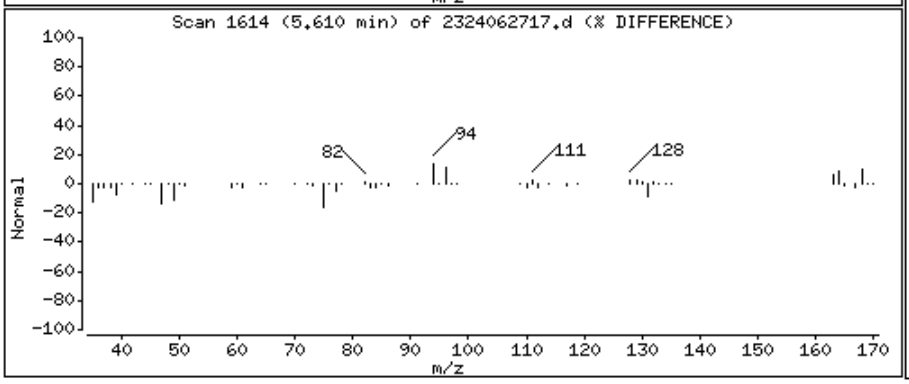












Data File : \\almdtws014\targetdata\chem2\ms23.i\23_2024\23240627.b\2324062717.d
Inj Date : 27-JUN-2024 16:29
InstruID : ms23.i
LabSampID : 3366028007

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 05:32
Client ID: HS24060985-08
DataFile: //almdtws014/targetdata/chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 16:29
Operator: ILY

Acetonitrile
tert-Amyl Ethylether
tert.- Butyl Alcohol
cis-1,3-Dichloropropene
2-Hexanone
Methyl cyclohexane
2-Nitropropane
Trichlorofluoromethane
tert-Amyl Alcohol
Bromodichloromethane
Dichlorofluoromethane
Ethyl methacrylate
Methyl methacrylate
Methylene Chloride
1,1,1-Trichloroethane

Data File: 2324062719.D Page 1
Report Date: 28-Jun-2024 11:36

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062719.D
Lab Smp Id: 3366028009 Client Smp ID: HS24060985-10
Inj Date : 27-JUN-2024 17:09
Operator : ILY Inst ID: ms23.i
Smp Info : 3366028009;;1;;;;;
Misc Info : ZZ VOMS 73629 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2324062719.D
Report Date: 28-Jun-2024 11:36

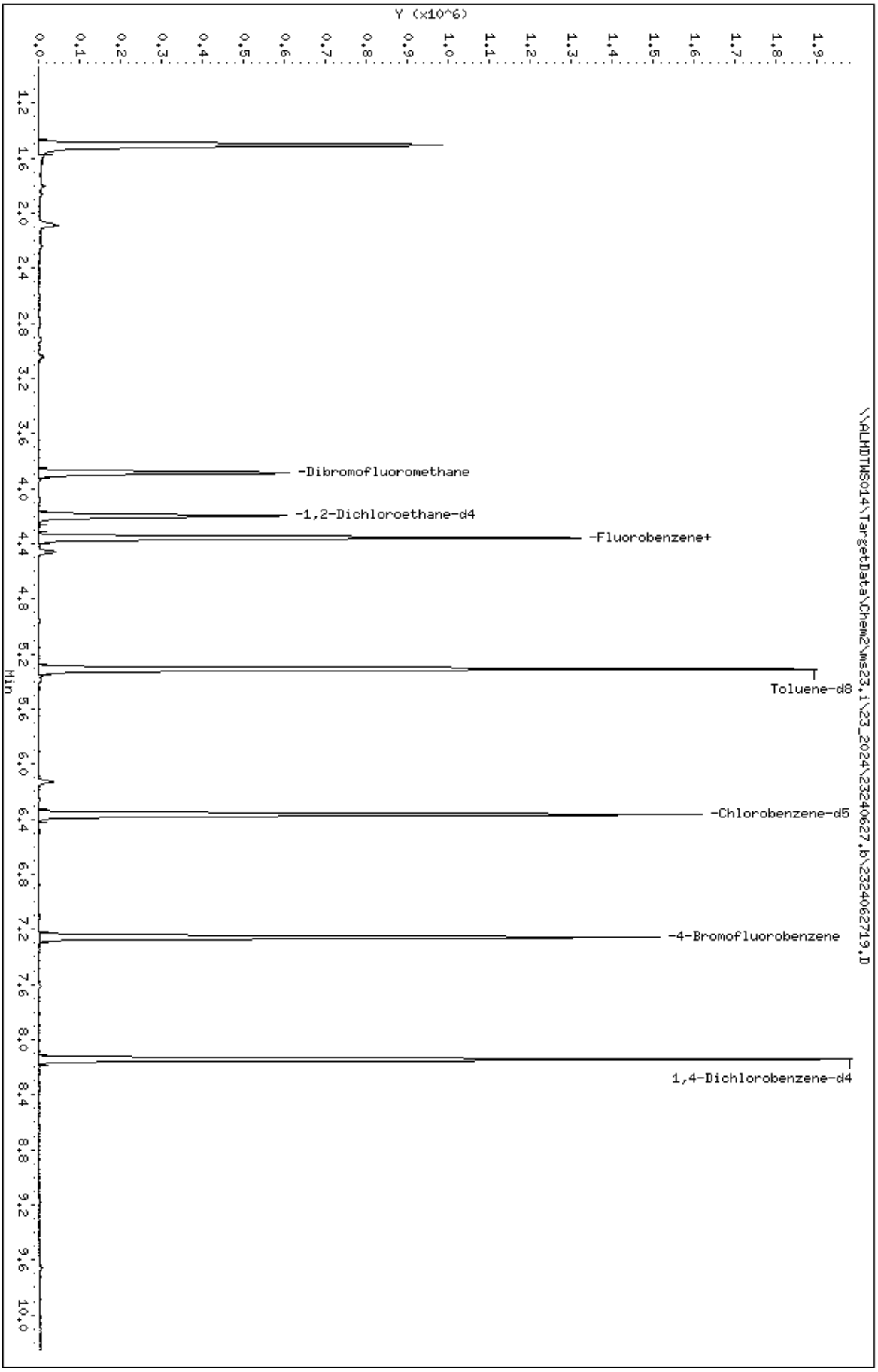
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.887	3.881	(0.892)	281045	30.5484	30.5484	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.197	4.197	(0.963)	368646	31.3003	31.3003	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.356	4.353	(1.000)	936192	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.457	4.458	(1.023)	10161	1.16385	1.16385	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.309	5.309	(0.834)	1013679	30.4646	30.4646	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2324062719.D Page 3
Report Date: 28-Jun-2024 11:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	417453	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	395890	28.5551	28.5551		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	8.143	8.143	(1.000)	479232	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.



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Client ID: HS24060985-10
Sample Info: 336602800?;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms23.i
Operator: ILY
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062719.D Page 2

Date : 27-JUN-2024 17:09

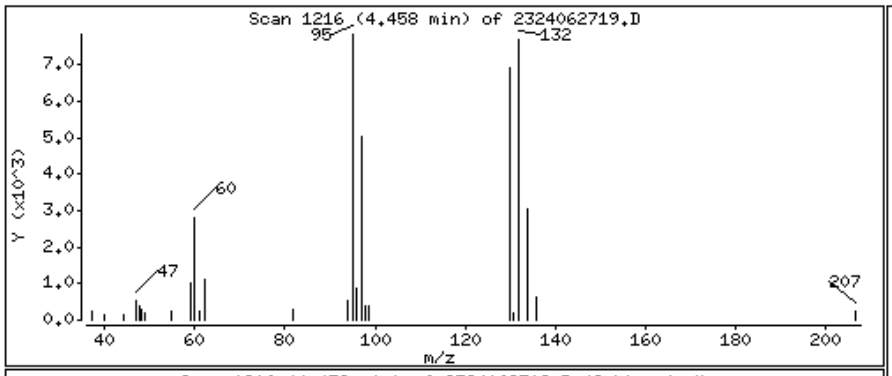
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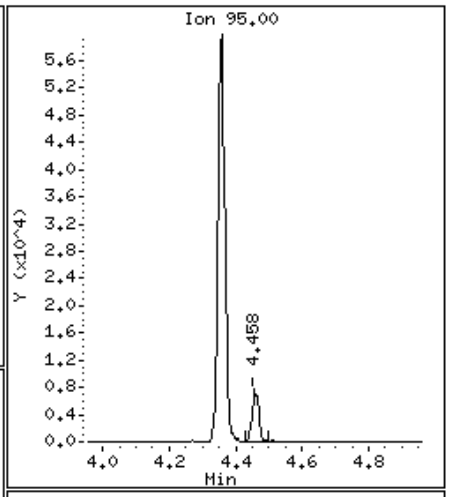
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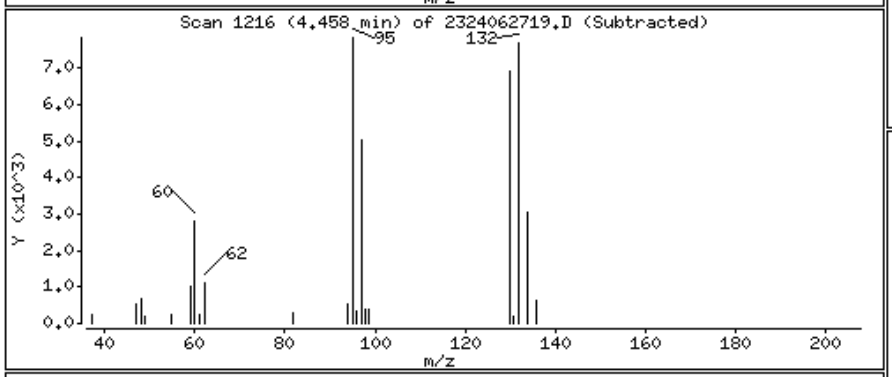
Purge Volume: 5.0 Operator: ILY

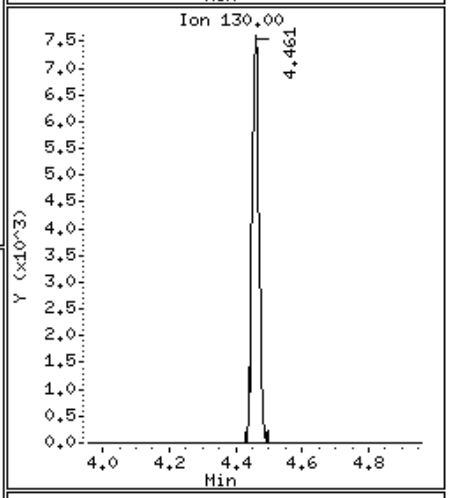
Column phase: DB-VRX Column diameter: 0.25

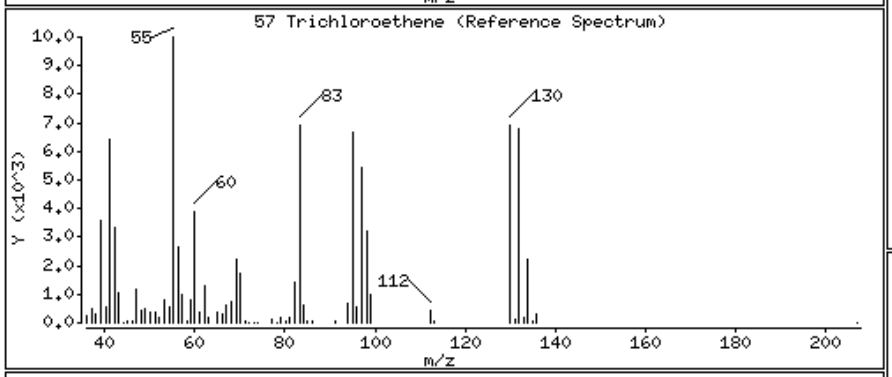
57 Trichloroethene Concentration: 1.16385 ug/L

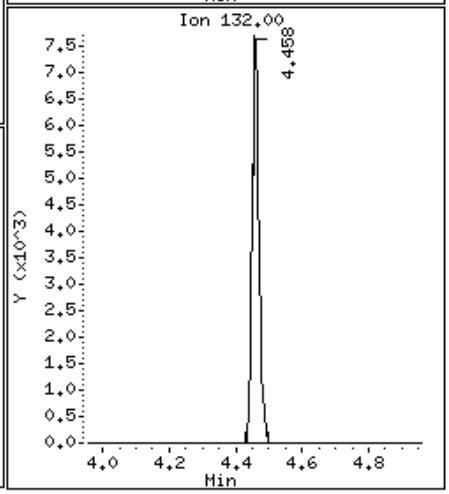


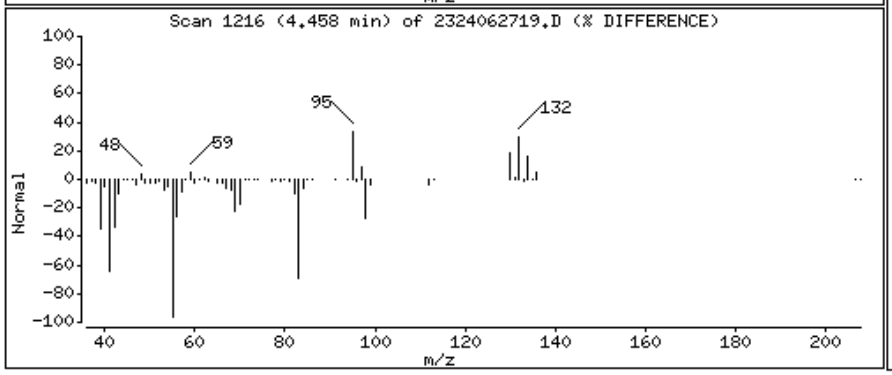












Data File : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062719.D
Inj Date : 27-JUN-2024 17:09
InstruID : ms23.i
LabSampID : 3366028009

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:36
Client ID: HS24060985-10
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406271
Inj Date: 27-JUN-2024 17:09
Operator: ILY

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Bromoform
1,2-Dichloroethane	1,3-Dichloropropane
Ethyl methacrylate	2-Hexanone
Methyl methacrylate	2-Nitropropane

Data File: 2324062727.D Page 1
Report Date: 28-Jun-2024 11:45

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\2324062727.D
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Inj Date : 27-JUN-2024 19:48
Operator : ILY Inst ID: ms23.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms23.i\23_2024\23240627.b\23-8260b09D.m
Meth Date : 27-Jun-2024 10:11 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 12:00 Cal File: 2324062504.D
Als bottle: 26 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7047

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.631	1.632	(0.375)	570820	42.9104	42.9104	
2 Chloromethane	50	1.788	1.788	(0.410)	337984	41.5859	41.5859	
3 Vinyl Chloride	62	1.851	1.852	(0.425)	358758	44.8097	44.8097	
4 Bromomethane	94	2.074	2.075	(0.476)	285583	47.1413	47.1413	
5 Chloroethane	64	2.150	2.150	(0.494)	192531	43.7034	43.7034	
6 Pentane	41	2.245	2.245	(0.515)	121344	22.5282	22.5282(R)	
7 Trichlorofluoromethane	101	2.251	2.251	(0.517)	782200	45.8897	45.8897	
8 Dichlorofluoromethane	67	2.280	2.280	(0.523)	665422	46.2459	46.2459	
9 Ethyl Ether	74	2.439	2.439	(0.560)	211138	47.0007	47.0007	
10 1,1-Dichloroethene	61	2.578	2.578	(0.592)	426329	41.9551	41.9551	
12 Carbon Disulfide	76	2.619	2.619	(0.601)	849135	43.0809	43.0809	
11 Freon 113	101	2.593	2.593	(0.595)	220151	31.8499	31.8499	
13 Iodomethane	127	2.679	2.677	(0.615)	182387	44.9104	44.9104	
14 Acrolein	56	2.760	2.761	(0.634)	296886	232.357	232.357	
16 3-Chloro-1-propene	41	2.847	2.851	(0.654)	334004	43.0905	43.0905	
15 Isopropyl Alcohol	45	2.824	2.825	(0.648)	113622	215.242	215.242	
17 Methylene Chloride	84	2.908	2.909	(0.668)	350192	47.5570	47.5570	
18 Acetone	58	2.923	2.920	(0.671)	159549	235.041	235.041	
19 Methyl acetate	74	2.983	2.981	(0.685)	69833	40.8645	40.8645(Q)	
20 trans-1,2-Dichloroethene	61	3.004	3.004	(0.690)	423075	45.4137	45.4137	
21 Hexane	57	3.044	3.045	(0.699)	417743	30.2364	30.2364	

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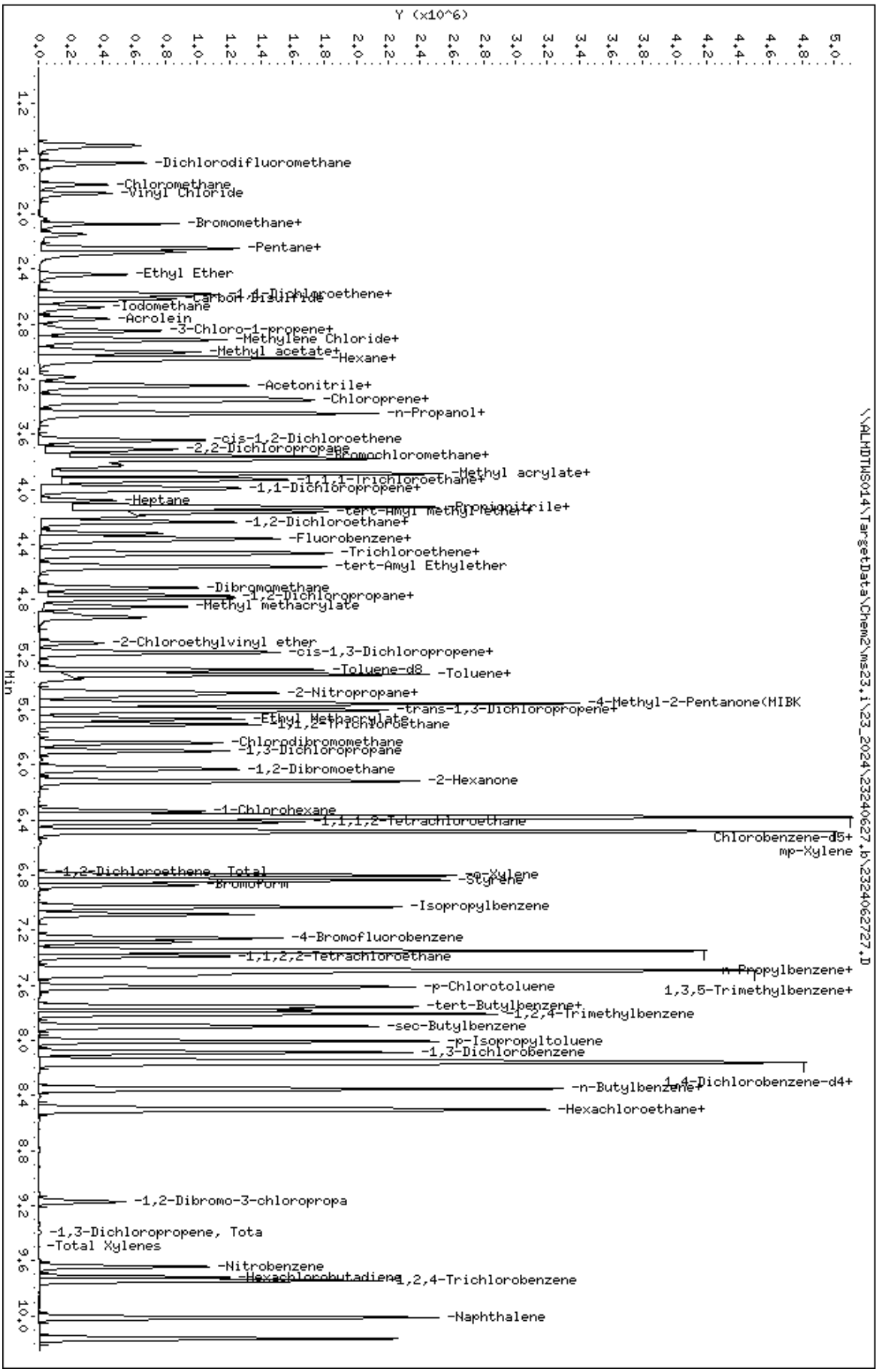
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	3.047	3.047	(0.700)	1213666	48.8064	48.8064	
23 tert.- Butyl Alcohol	59	3.070	3.065	(0.705)	237192	228.967	228.967	
24 Acetonitrile	41	3.186	3.184	(0.731)	182137	232.972	232.972	
25 Diisopropyl ether	45	3.247	3.244	(0.745)	813504	47.2946	47.2946	
26 Chloroprene	53	3.334	3.334	(0.765)	365557	30.5906	30.5906	
27 1,1-Dichloroethane	63	3.345	3.346	(0.768)	566598	42.8565	42.8565	
28 Acrylonitrile	53	3.357	3.354	(0.771)	754273	219.783	219.783(M)	
30 n-Propanol	41	3.450	3.447	(0.792)	197371	490.319	490.319	
29 Ethyl tert-butyl ether	59	3.447	3.447	(0.791)	1098449	44.3053	44.3053	
31 Vinyl acetate	86	3.452	3.447	(0.793)	98680	44.7196	44.7196(Q)	
32 cis-1,2-Dichloroethene	61	3.641	3.641	(0.836)	453630	47.0623	47.0623	
33 2,2-Dichloropropane	77	3.710	3.708	(0.852)	503603	39.5863	39.5863	
M 100 1,2-Dichloroethene, Total	61				876705	92.4760	92.4760	
34 Bromochloromethane	128	3.759	3.757	(0.863)	229595	49.3364	49.3364	
35 Cyclohexane	84	3.780	3.780	(0.868)	339189	31.3750	31.3750	
36 Chloroform	83	3.780	3.780	(0.868)	742763	45.9403	45.9403	
37 Ethyl acetate	43	3.814	3.815	(0.876)	335022	47.1474	47.1474	
38 Methyl acrylate	55	3.832	3.832	(0.880)	329994	43.6825	43.6825	
39 Carbon Tetrachloride	117	3.890	3.890	(0.893)	537479	36.6942	36.6942(M)	MP
40 Tetrahydrofuran	42	3.884	3.878	(0.892)	438987	233.762	233.762	
$ 41 Dibromofluoromethane	113	3.884	3.881	(0.892)	268663	30.1477	30.1477	
42 1,1,1-Trichloroethane	97	3.921	3.922	(0.900)	639722	43.2900	43.2900	
43 2-Butanone	72	3.936	3.936	(0.904)	241064	230.800	230.800	
44 1,1-Dichloropropene	75	3.985	3.986	(0.915)	427299	40.6214	40.6214	
45 1-Chlorobutane	41	4.005	4.006	(0.920)	268595	39.3089	39.3089	
46 Heptane	71	4.078	4.081	(0.936)	106593	21.9307	21.9307(R)	
48 Propionitrile	54	4.113	4.113	(0.944)	265551	216.902	216.902	
47 Benzene	78	4.130	4.130	(0.948)	1262369	45.7273	45.7273	
49 Methacrylonitrile	67	4.130	4.127	(0.948)	157619	46.7546	46.7546	
50 tert-amyl methyl Ether	73	4.162	4.162	(0.955)	1122972	44.7901	44.7901	
$ 51 1,2-Dichloroethane-d4	65	4.199	4.197	(0.964)	338055	29.6319	29.6319(M)	MP
54 Isobutyl alcohol	42	4.170	4.168	(0.957)	87845	429.458	429.458	
52 1,2-Dichloroethane	62	4.237	4.235	(0.973)	616994	47.3685	47.3685	
53 tert-Amyl Alcohol	59	4.237	4.237	(0.973)	174145	225.585	225.585	
* 55 Fluorobenzene	96	4.356	4.353	(1.000)	906842	30.0000		
56 Diisobutylene	57	4.370	4.371	(1.003)	362060	23.2008	23.2008(R)	
57 Trichloroethene	95	4.460	4.458	(1.024)	364475	43.0984	43.0984	
58 Methyl cyclohexane	83	4.472	4.472	(0.703)	309858	27.1555	27.1555	
59 tert-Amyl Ethylether	59	4.561	4.562	(1.047)	808676	48.4529	48.4529	
60 Dibromomethane	93	4.715	4.712	(1.082)	265406	48.8052	48.8052	
61 1,2-Dichloropropane	63	4.770	4.773	(1.095)	286830	47.6456	47.6456	
62 Bromodichloromethane	83	4.796	4.793	(1.101)	565317	48.7536	48.7536	
63 Methyl methacrylate	41	4.854	4.851	(1.114)	305743	42.5562	42.5562	
65 2-Chloroethylvinyl ether	63	5.117	5.115	(1.175)	138726	41.3784	41.3784	
66 cis-1,3-Dichloropropene	75	5.181	5.181	(0.814)	602499	42.9251	42.9251	
67 Octane	85	5.198	5.196	(0.817)	104451	23.4079	23.4079(R)	
$ 68 Toluene-d8	98	5.308	5.309	(0.834)	955210	29.9612	29.9612	
69 Toluene	92	5.343	5.343	(0.839)	859255	43.9030	43.9030	
70 Chloroacetonitrile	75	5.378	5.375	(0.845)	137361	224.135	224.135	
71 2-Nitropropane	41	5.473	5.474	(0.860)	716554	215.079	215.079	
72 1,1-Dichloro-2-propanone	63	5.497	5.497	(0.864)	61221	221.990	221.990	
73 4-Methyl-2-Pentanone(MIBK)	43	5.554	5.552	(0.873)	1559395	217.688	217.688	
75 trans-1,3-Dichloropropene	75	5.592	5.592	(0.879)	635338	43.8575	43.8575	
74 Tetrachloroethene	164	5.607	5.607	(0.881)	336774	39.5819	39.5819	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.667	5.665	(0.890)	521439	43.8718	43.8718	
	77 1,1,2-Trichloroethane	83	5.708	5.703	(0.897)	281703	48.5048	48.5048	
	78 Chlorodibromomethane	129	5.841	5.839	(0.918)	520539	44.1304	44.1304	
	79 1,3-Dichloropropane	76	5.902	5.899	(0.927)	595765	48.8996	48.8996	
	80 1,2-Dibromoethane	107	6.021	6.021	(0.946)	403561	47.4643	47.4643	
	81 2-Hexanone	43	6.119	6.117	(0.961)	1128361	213.554	213.554	
	82 1-Chlorohexane	91	6.336	6.334	(0.995)	320230	31.3423	31.3423	
*	83 Chlorobenzene-d5	82	6.365	6.366	(1.000)	399984	30.0000		
	85 Ethylbenzene	106	6.383	6.380	(1.003)	494437	41.7383	41.7383	
	84 Chlorobenzene	112	6.377	6.377	(1.002)	1037095	46.1314	46.1314	
	86 1,1,1,2-Tetrachloroethane	131	6.414	6.415	(1.008)	443571	48.0973	48.0973	
	87 mp-Xylene	106	6.484	6.481	(1.019)	1211686	84.6006	84.6006	
M	120 1,3-Dichloropropene, Total	75				1237837	86.7826	86.7826	
	88 o-Xylene	106	6.802	6.800	(1.069)	631671	44.8665	44.8665	
	89 Styrene	104	6.837	6.837	(0.839)	1101751	44.5043	44.5043	
	90 Bromoform	173	6.872	6.869	(0.844)	400603	45.7796	45.7796	
	91 Isopropylbenzene	105	7.031	7.031	(0.863)	1318726	37.5146	37.5146	
$	92 4-Bromofluorobenzene	174	7.257	7.254	(0.891)	383845	29.9673	29.9673	
M	121 TOTAL XYLENES	106				1843357	129.467	129.467	
	94 n-Propylbenzene	120	7.350	7.350	(0.902)	386856	37.1472	37.1472	
	93 Bromobenzene	156	7.350	7.350	(0.902)	513635	46.7017	46.7017	
	95 1,1,2,2-Tetrachloroethane	83	7.390	7.388	(0.907)	457001	50.2458	50.2458	
	97 1,3,5-Trimethylbenzene	105	7.494	7.495	(0.920)	1267140	41.2689	41.2689	
	96 o-Chlorotoluene	91	7.486	7.486	(0.919)	1244411	43.8135	43.8135	
	98 1,2,3-Trichloropropane	110	7.509	7.506	(0.922)	190058	49.2612	49.2612	
	99 trans-1,4-Dichloro-2-butene	53	7.529	7.527	(0.924)	153062	42.4719	42.4719	
	101 p-Chlorotoluene	91	7.613	7.611	(0.935)	1176494	44.8006	44.8006	
	102 tert-Butylbenzene	134	7.758	7.755	(0.952)	291574	37.9240	37.9240	
	103 Pentachloroethane	117	7.781	7.781	(0.955)	289594	39.9717	39.9717(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.807	7.807	(0.958)	1354467	43.4341	43.4341	
	105 sec-Butylbenzene	105	7.900	7.897	(0.970)	1297680	35.4948	35.4948	
	106 p-Isopropyltoluene	134	8.007	8.007	(0.983)	328720	37.2243	37.2243	
	107 1,3-Dichlorobenzene	146	8.088	8.088	(0.993)	873220	45.0601	45.0601	
*	108 1,4-Dichlorobenzene-d4	152	8.146	8.143	(1.000)	442755	30.0000		
	109 1,4-Dichlorobenzene	146	8.157	8.158	(1.001)	891375	44.8715	44.8715	
	111 n-Butylbenzene	134	8.354	8.355	(1.026)	283958	34.7442	34.7442	
	110 Benzyl Chloride	126	8.351	8.349	(1.025)	178344	37.1506	37.1506(Q)	
	112 Hexachloroethane	117	8.496	8.497	(1.043)	260062	37.4442	37.4442	
	113 1,2-Dichlorobenzene	146	8.505	8.505	(1.044)	888111	47.2081	47.2081	
	114 1,2-Dibromo-3-chloropropane	75	9.168	9.174	(1.125)	121069	48.2583	48.2583	
	115 Nitrobenzene	77	9.643	9.640	(1.184)	454201	417.121	417.121	
	116 Hexachlorobutadiene	225	9.721	9.718	(1.193)	207547	32.0714	32.0714	
	117 1,2,4-Trichlorobenzene	180	9.744	9.744	(1.196)	580500	44.5965	44.5965	
	118 Naphthalene	128	10.013	10.014	(1.229)	1644892	45.0772	45.0772	
	119 1,2,3-Trichlorobenzene	180	10.164	10.167	(1.248)	594031	46.1186	46.1186(M)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

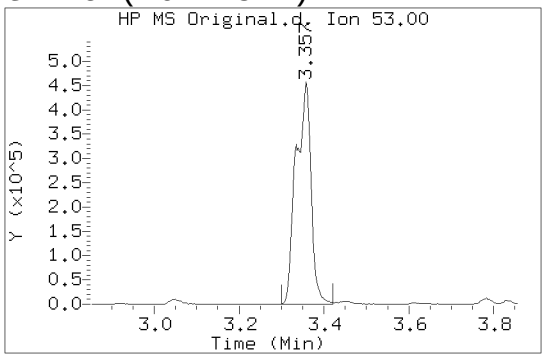

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
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-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
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-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
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-p-Chlorotoluene
1,3,5-Trimethylbenzene+
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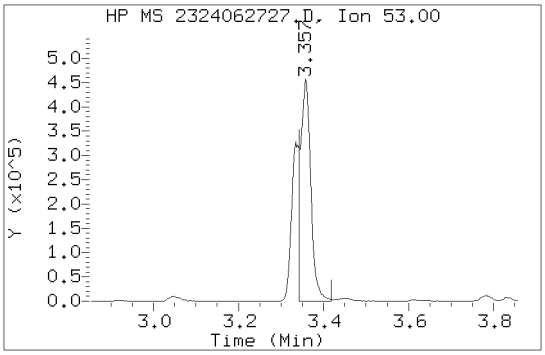
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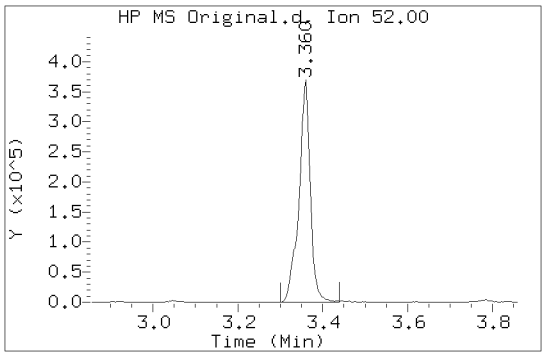
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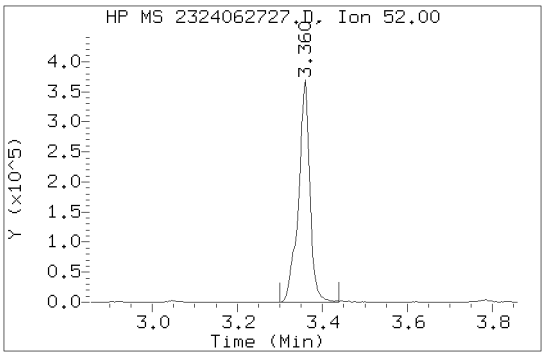
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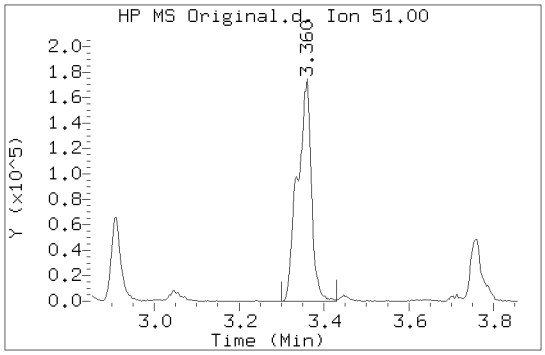
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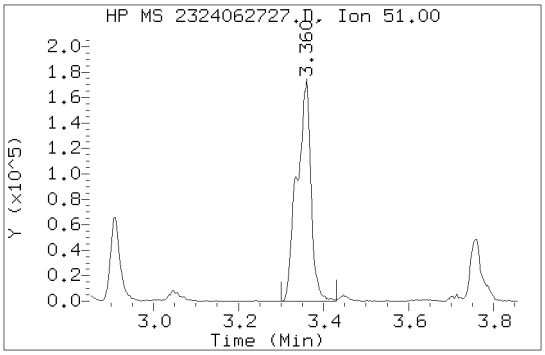
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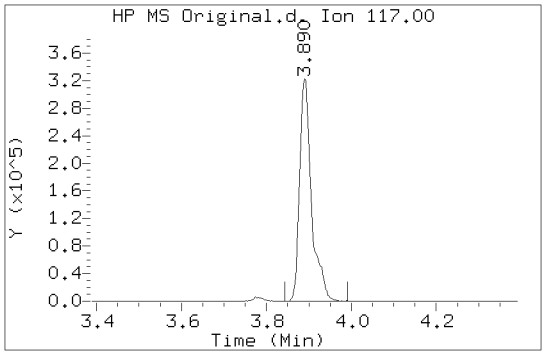
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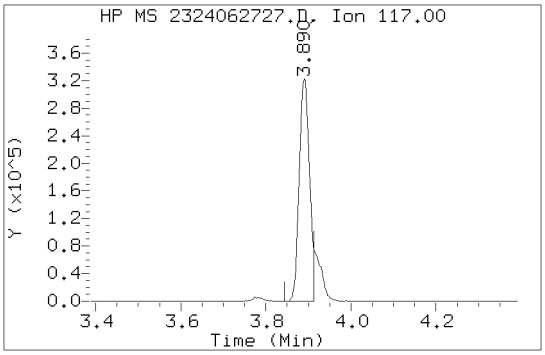
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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AFTER
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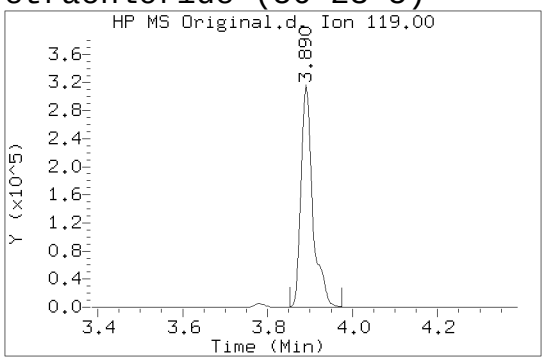


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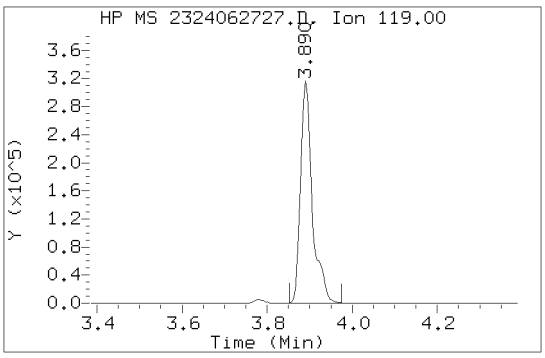
Carbon Tetrachloride (56-23-5)

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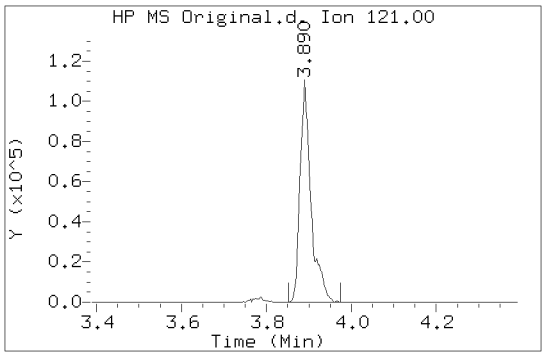
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MASS
119
AREA
600957
HEIGHT
316411
28-Jun-2024
08:59



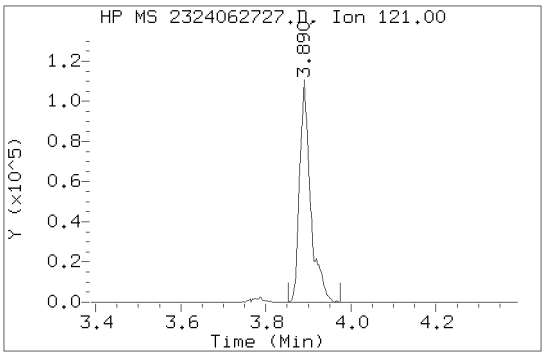
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MASS
119
AREA
600957
HEIGHT
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11:45



BEFORE
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AREA
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HEIGHT
110664
28-Jun-2024
08:59



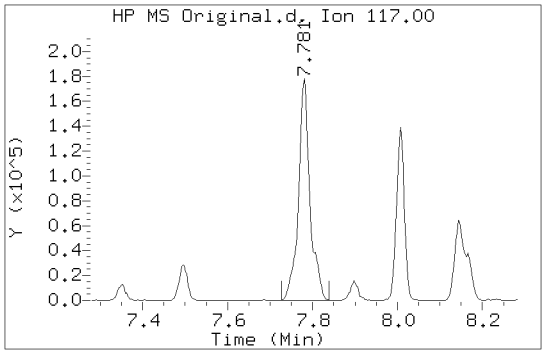
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121
AREA
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HEIGHT
110664
28-Jun-2024
11:45



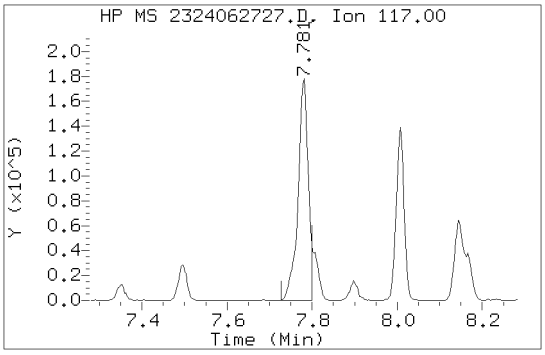
Pentachloroethane (76-01-7)

Reason Code: MP

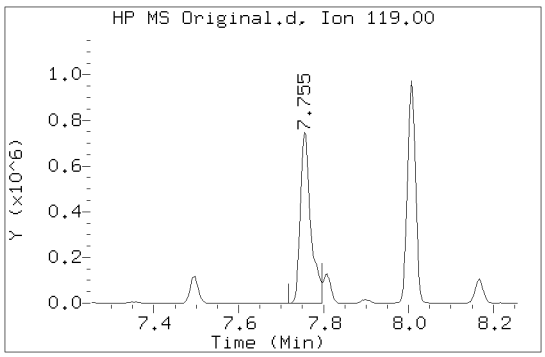
BEFORE
MASS
117
AREA
329521
HEIGHT
178176
28-Jun-2024
08:59



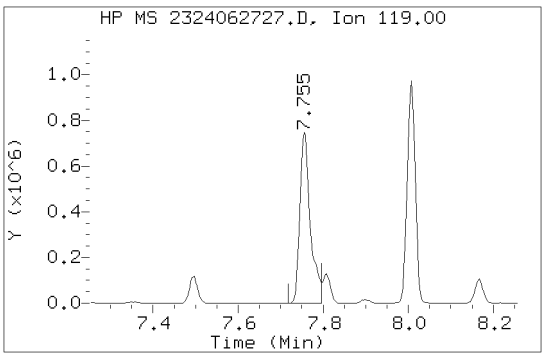
AFTER
MASS
117
AREA
289594
HEIGHT
178176
28-Jun-2024
11:45



BEFORE
MASS
119
AREA
1268140
HEIGHT
747863
28-Jun-2024
08:59



AFTER
MASS
119
AREA
1268140
HEIGHT
747863
28-Jun-2024
11:45



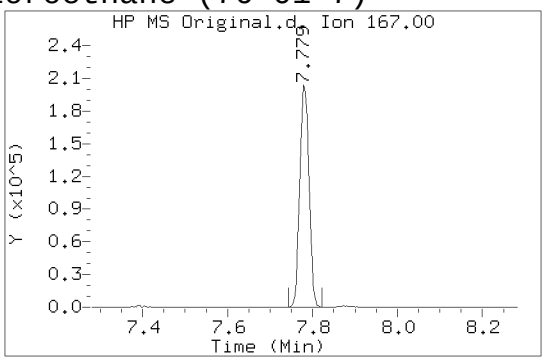
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Inj Date : 27-JUN-2024 19:48
InstruID : ms23.i
LabSampID : 1801

Pentachloroethane (76-01-7)

Reason Code: MP

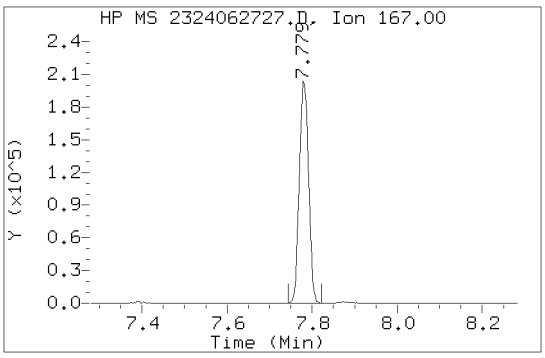
BEFORE

MASS
167
AREA
303275
HEIGHT
204032
28-Jun-2024
08:59



AFTER

MASS
167
AREA
303275
HEIGHT
204032
28-Jun-2024
11:45

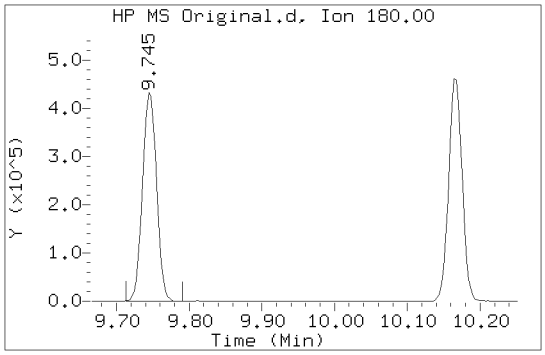


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

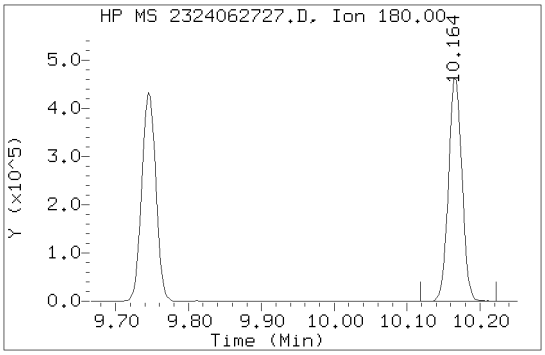
BEFORE

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AREA
580800
HEIGHT
432080
28-Jun-2024
08:59



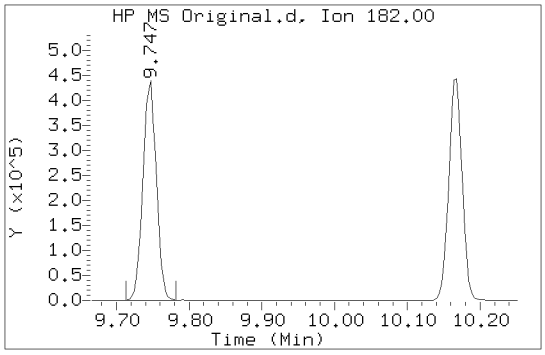
AFTER

MASS
180
AREA
594031
HEIGHT
460464
28-Jun-2024
11:45



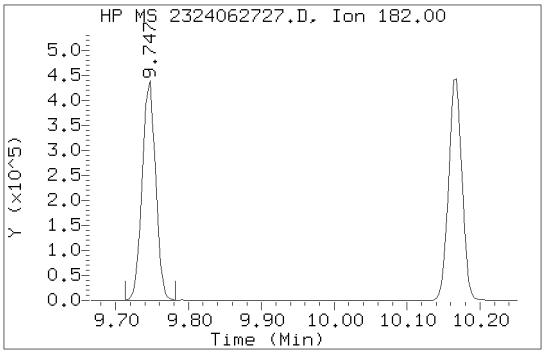
BEFORE

MASS
182
AREA
564279
HEIGHT
438969
28-Jun-2024
08:59



AFTER

MASS
182
AREA
564279
HEIGHT
438969
28-Jun-2024
11:45

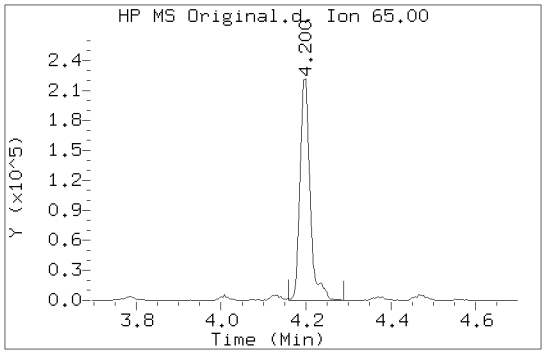


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

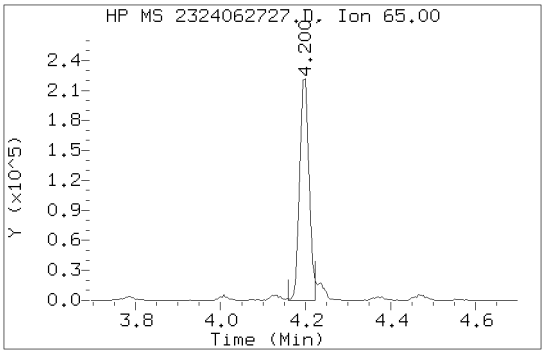
BEFORE

MASS
65
AREA
362320
HEIGHT
221760
28-Jun-2024
08:59



AFTER

MASS
65
AREA
338055
HEIGHT
221760
28-Jun-2024
11:45



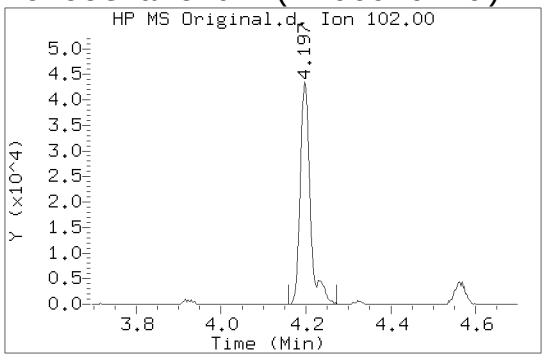
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Inj Date : 27-JUN-2024 19:48
InstruID : ms23.i
LabSampID : 1801

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

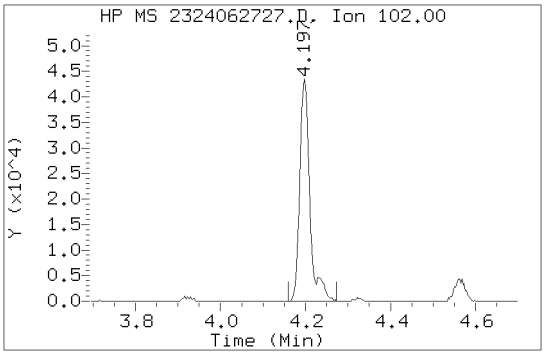
BEFORE

MASS
102
AREA
70635
HEIGHT
43504
28-Jun-2024
08:59



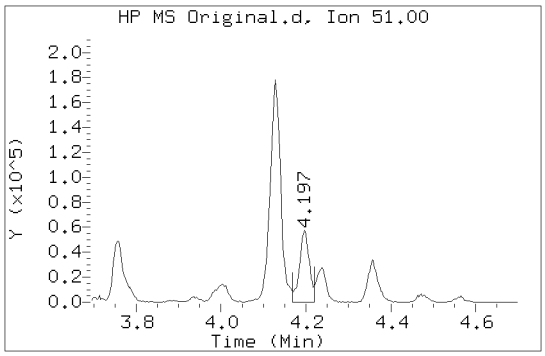
AFTER

MASS
102
AREA
70635
HEIGHT
43504
28-Jun-2024
11:45



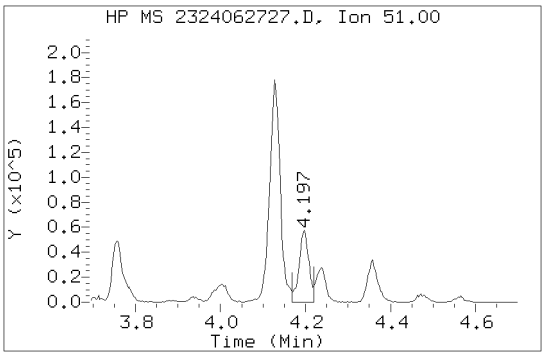
BEFORE

MASS
51
AREA
92202
HEIGHT
57584
28-Jun-2024
08:59



AFTER

MASS
51
AREA
92202
HEIGHT
57584
28-Jun-2024
11:45



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 11:45
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms23.i/23_2024/23240627.b/232406272
Inj Date: 27-JUN-2024 19:48
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240625

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

www.alsglobal.com

Data File: 2524062500.D Page 1
Report Date: 25-Jun-2024 21:11

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Lab Smp Id: 1000
Inj Date : 25-JUN-2024 09:52
Operator : ILY Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
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: NAMDTW7026

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

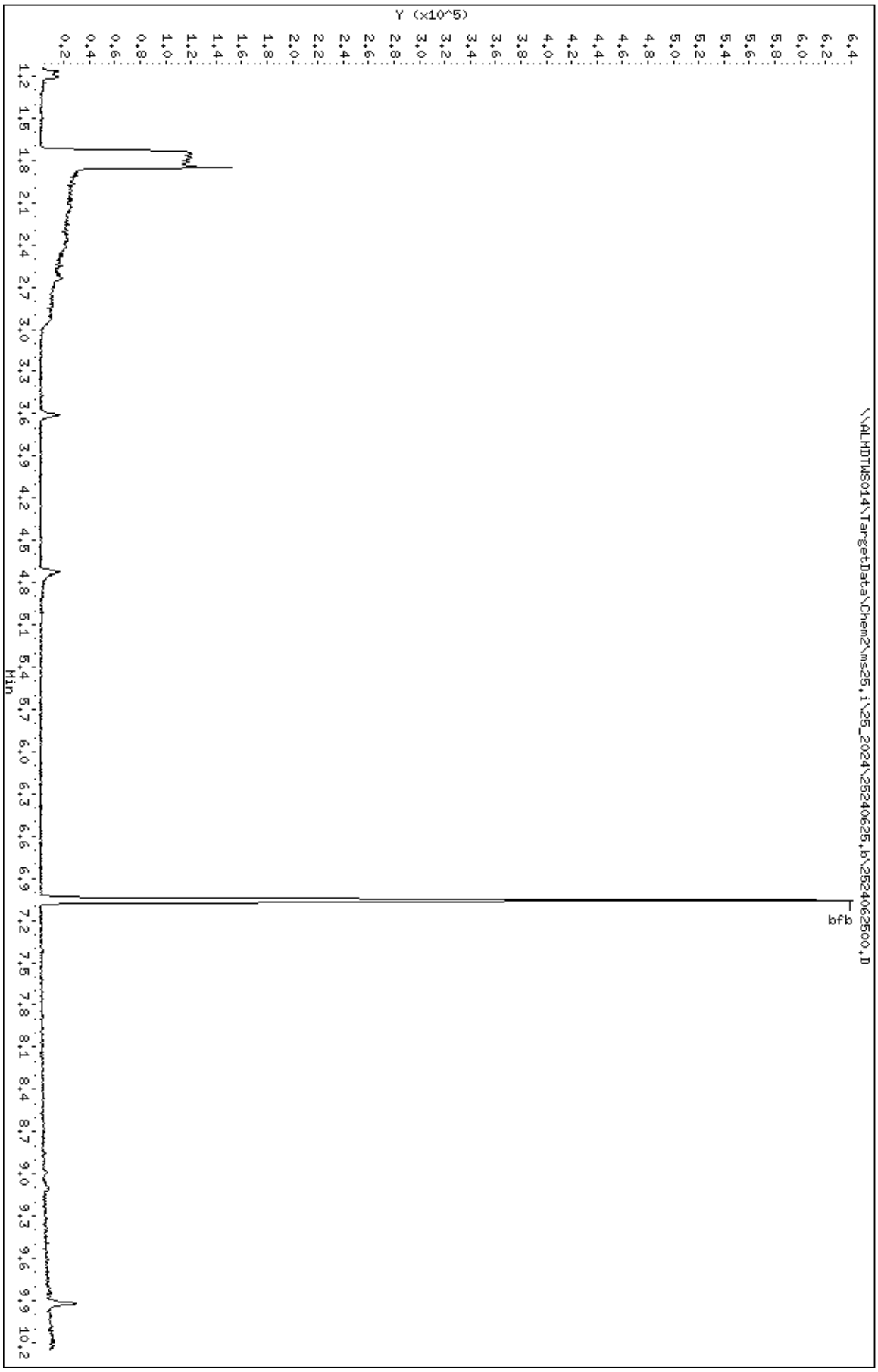
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
7.057	8.129	(0.000)	95	112296			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	18776			15.00- 40.00	16.72
7.057	8.129	(0.000)	75	52448			30.00- 60.00	46.71
7.057	8.129	(0.000)	96	7984			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
7.057	8.129	(0.000)	174	104984			50.00- 0.00	93.49
7.057	8.129	(0.000)	175	8844			5.00- 9.00	8.42
7.057	8.129	(0.000)	176	104216			95.00- 101.00	99.27
7.057	8.129	(0.000)	177	6298			5.00- 9.00	6.04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

Data File: 2524062500.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	878	63.00	4033	91.00	717	135.00	206
37.00	4617	64.00	365	92.00	3363	137.00	282
38.00	4815	67.00	329	93.00	4897	141.00	1172
39.00	1768	68.00	10547	94.00	13036	142.00	251
40.00	333	69.00	10385	95.00	112296	143.00	1323
43.00	55	70.00	816	96.00	7984	146.00	154
44.00	630	72.00	618	97.00	360	148.00	374
45.00	922	73.00	5006	104.00	480	152.00	114
46.00	165	74.00	19224	105.00	186	154.00	79
47.00	1141	75.00	52448	106.00	451	155.00	261
48.00	668	76.00	4690	107.00	96	158.00	58
49.00	4345	77.00	434	111.00	71	159.00	58
50.00	18776	78.00	266	113.00	63	161.00	54
51.00	5851	79.00	3765	115.00	335	172.00	1160
52.00	298	80.00	1102	116.00	557	174.00	104984
55.00	297	81.00	3762	117.00	700	175.00	8844
56.00	2095	82.00	874	118.00	643	176.00	104216
57.00	2561	83.00	53	119.00	637	177.00	6298
58.00	199	86.00	72	123.00	59	178.00	54
59.00	87	87.00	4862	128.00	429	207.00	146
60.00	908	88.00	4831	129.00	125	251.00	59
61.00	5090	89.00	67	130.00	386		
62.00	4861	90.00	56	131.00	261		


Data File: \\ALMDTWS014\TargetData\Chem2\ms25_i\25_2024\25240625_b\25240625002.D
Date : 25-JUN-2024 09:52
Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624
Instrument: ms25_i
Operator: ILY
Column diameter: 0.53
Page 1
Y (x10^5)
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bf8
Min

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Inj Date : 25-JUN-2024 09:52
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062503.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:03
Operator : ILY Inst ID: ms25.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	7403	0.50000	0.609970(a)	
2	Chloromethane	50	1.644	1.645	(0.394)	7701	0.50000	0.611694(a)	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	8472	0.50000	0.617487(a)	
4	Bromomethane	94	1.922	1.923	(0.461)	6439	0.50000	0.549339(a)	
5	Chloroethane	64	2.004	2.005	(0.481)	7553	0.50000	0.512149(a)	
6	Pentane	41	2.091	2.092	(0.502)	13487	0.50000	0.552296(aQ)	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	11132	0.50000	0.592347(a)	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	7544	0.50000	0.433835(a)	
9	Ethyl Ether	74	2.272	2.278	(0.545)	2339	0.50000	0.442329(aQ)	
10	1,1-Dichloroethene	61	2.413	2.409	(0.579)	4727	0.50000	0.447977(a)	
11	Freon 113	101	2.435	2.425	(0.584)	3186	0.50000	0.429279(a)	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	10727	0.50000	0.471259(a)	
13	Iodomethane	127	2.506	2.507	(0.601)	1008	0.50000	0.755321(a)	
14	Acrolein	56	2.599	2.600	(0.623)	4363	2.50000	2.56343	
15	Isopropyl Alcohol	45	2.653	2.654	(0.636)	3328	2.50000	2.88058	
16	3-Chloro-1-propene	41	2.686	2.676	(0.644)	3005	0.50000	0.499977(a)	
17	Methylene Chloride	84	2.741	2.741	(0.657)	3732	0.50000	0.432985(a)	
18	Acetone	58	2.757	2.752	(0.661)	2467	2.50000	2.58339(Q)	
19	Methyl acetate	74	2.817	2.812	(0.676)	2035	0.50000	0.623791(aQ)	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	4448	0.50000	0.430387(a)	
21	Hexane	57	2.861	2.867	(0.686)	15367	0.50000	0.605676(a)	

Data File: 2524062503.D
Report Date: 25-Jun-2024 19:32

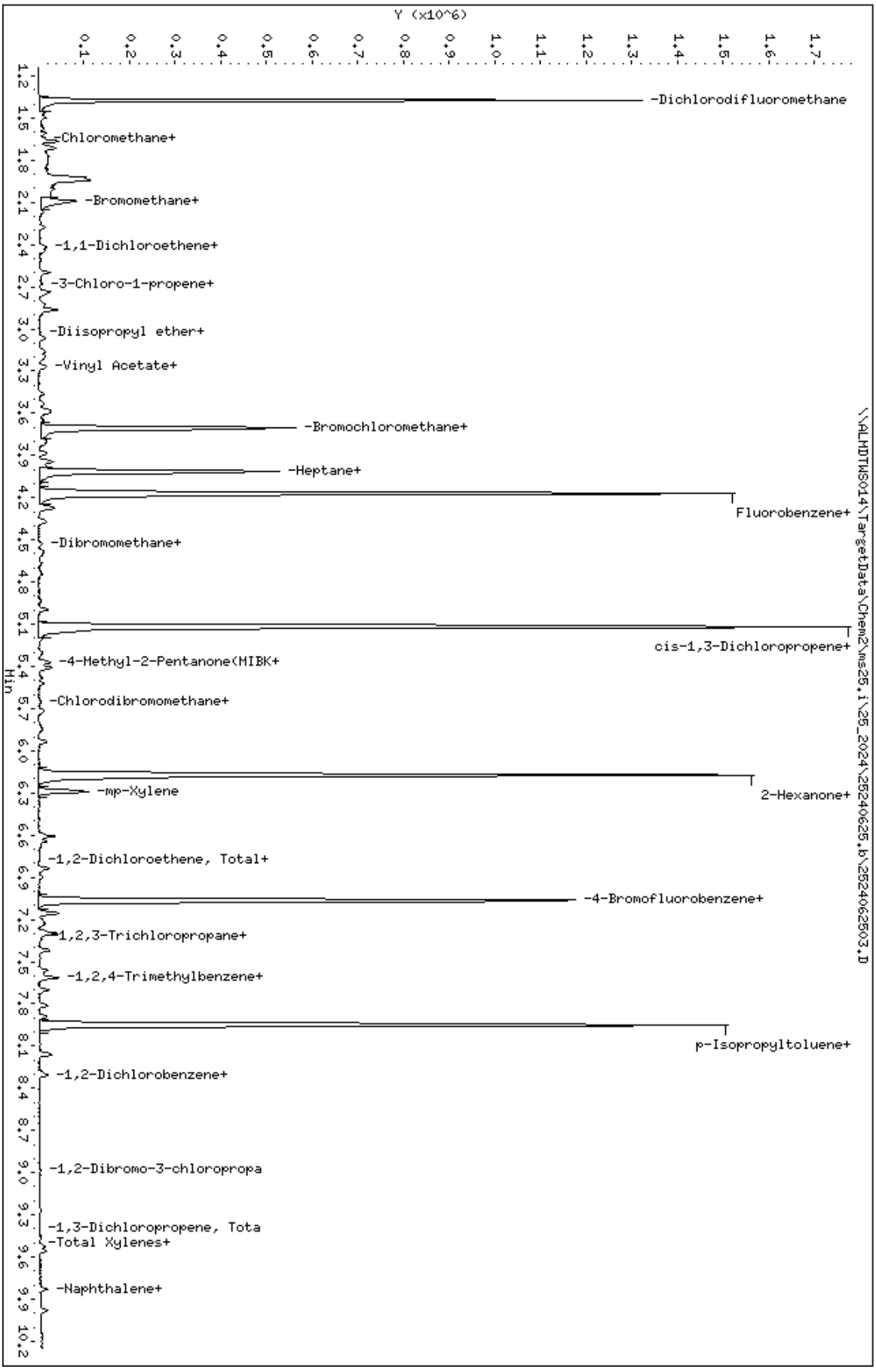
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.877	2.872	(0.690)	9076	0.50000	0.571782(aQ)	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	2093	2.50000	2.19551	
	24 Acetonitrile	41	3.019	3.020	(0.724)	2461	2.50000	2.30464(QM)	MP
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	9459	0.50000	0.412394(a)	
	26 Chloroprene	53	3.150	3.156	(0.755)	4938	0.50000	0.424640(a)	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	5914	0.50000	0.420026(aM)	IH
	28 Acrylonitrile	53	3.188	3.194	(0.765)	7287	2.50000	1.98720(M)	MP
	29 Ethyl tert-butyl ether	59	3.259	3.265	(0.782)	9807	0.50000	0.402571(a)	
	30 n-Propanol	41	3.265	3.260	(0.783)	2592	5.00000	5.73610(Q)	
	31 Vinyl Acetate	86	3.270	3.276	(0.784)	715	0.50000	0.677670(aQ)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	4439	0.50000	0.423607(a)	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	5081	0.50000	0.452773(aM)	H
	34 Bromochloromethane	128	3.576	3.576	(0.857)	1835	0.50000	0.406063(aQ)	
	35 Cyclohexane	84	3.592	3.587	(0.861)	6021	0.50000	0.478859(aQ)	
	36 Chloroform	83	3.603	3.598	(0.864)	6590	0.50000	0.433555(a)	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	6710	0.50000	0.651771(a)	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	3888	0.50000	0.460758(a)	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	2612	0.50000	0.647639(aM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	251888	30.0000	29.1045	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	6336	2.50000	2.45613	
	42 1,1,1-Trichloroethane	97	3.739	3.740	(0.897)	4628	0.50000	0.391178(a)	
	43 2-Butanone	72	3.761	3.767	(0.902)	2817	2.50000	2.25888(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	5113	0.50000	0.456885(a)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	4277	0.50000	0.594302(aQ)	
	46 Heptane	71	3.887	3.887	(0.932)	3571	0.50000	0.549236(aQ)	
	47 Benzene	78	3.941	3.942	(0.945)	17284	0.50000	0.502483(a)	
	48 Propionitrile	54	3.941	3.942	(0.945)	2748	2.50000	1.97899(Q)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	2086	0.50000	0.501131(aQM)	H
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	9972	0.50000	0.424059(a)	
	54 Isobutyl alcohol	42	3.985	3.980	(0.956)	394	5.00000	5.86342(QM)	H
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	282446	30.0000	30.9588	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	5311	0.50000	0.491166(aQ)	
	53 tert-Amyl Alcohol	59	4.061	4.062	(0.974)	1627	2.50000	2.22445	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1096864	30.0000		
	56 Diisobutylene	57	4.170	4.171	(1.000)	44441	0.50000	0.646847(aQ)	
	57 Trichloroethene	95	4.263	4.269	(1.022)	4490	0.50000	0.515766(aQM)	H
	58 Methyl cyclohexane	83	4.269	4.275	(0.692)	6441	0.50000	0.481087(a)	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	7238	0.50000	0.613047(a)	
	60 Dibromomethane	93	4.525	4.526	(1.085)	2382	0.50000	0.432826(aQ)	
	61 1,2-Dichloropropane	63	4.580	4.586	(1.098)	3551	0.50000	0.428936(aQM)	H
	62 Bromodichloromethane	83	4.612	4.607	(1.106)	3592	0.50000	0.639622(a)	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	2494	0.50000	0.380651(aM)	IH
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	1683	12.5000	13.1326(Q)	
	65 2-Chloroethylvinyl ether	63	4.940	4.935	(1.184)	1903	0.50000	0.682108(aM)	IH
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	4396	0.50000	0.594491(a)	
	67 Octane	85	5.000	5.000	(0.810)	2623	0.50000	0.516704(a)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1019938	30.0000	31.2109	
	69 Toluene	92	5.147	5.153	(0.834)	11878	0.50000	0.573470(a)	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	1271	2.50000	2.46156(QM)	H
	71 2-Nitropropane	41	5.294	5.300	(0.858)	3617	2.50000	3.45024(Q)	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	307	2.50000	3.32513(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	15196	2.50000	2.86001	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	4340	0.50000	0.630336(a)	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	3437	0.50000	0.455706(a)	

Data File: 2524062503.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	3766	0.50000	0.615569(aM)	H
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	2588	0.50000	0.406674(a)	
	78 Chlorodibromomethane	129	5.655	5.650	(0.916)	2392	0.50000	0.631711(a)	
	79 1,3-Dichloropropane	76	5.709	5.710	(0.925)	5196	0.50000	0.413250(a)	
	80 1,2-Dibromoethane	107	5.835	5.830	(0.945)	2751	0.50000	0.557407(a)	
	81 2-Hexanone	43	5.938	5.933	(0.962)	9727	2.50000	2.83510	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	5263	0.50000	0.483003(aQ)	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	412754	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	9263	0.50000	0.438849(a)	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	9240	0.50000	0.616459(a)	
	86 1,1,1,2-Tetrachloroethane	131	6.217	6.223	(1.007)	2323	0.50000	0.607596(a)	
	87 mp-Xylene	106	6.293	6.288	(1.019)	30052	1.00000	1.27466	
	88 o-Xylene	106	6.604	6.610	(1.070)	8690	0.50000	0.618661(a)	
	89 Styrene	104	6.648	6.648	(0.836)	7432	0.50000	0.629733(aM)	MP
	90 Bromoform	173	6.686	6.686	(0.841)	2337	0.50000	0.734051(aM)	IH
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	13069	0.50000	0.562869(a)	
M	100 1,2-Dichloroethene, Total	61				8887	1.00000	0.853994(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	319075	30.0000	31.0197	
	93 Bromobenzene	156	7.155	7.156	(0.900)	3974	0.50000	0.452058(a)	
	94 n-Propylbenzene	120	7.161	7.156	(0.901)	4608	0.50000	0.512609(a)	
	95 1,1,2,2-Tetrachloroethane	83	7.199	7.205	(0.905)	3602	0.50000	0.412247(aM)	IH
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	10588	0.50000	0.447681(a)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	12483	0.50000	0.498960(a)	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	1088	0.50000	0.386077(aQ)	
	99 trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	1054	0.50000	0.681032(aQM)	H
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	9948	0.50000	0.464370(a)	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	2578	0.50000	0.430850(aQ)	
	103 Pentachloroethane	117	7.581	7.581	(0.953)	2125	0.50000	0.643645(aM)	H
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	20714	0.50000	0.631945(a)	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	13973	0.50000	0.451901(a)	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	2976	0.50000	0.420291(a)	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	6216	0.50000	0.419711(a)	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	371816	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	7283	0.50000	0.471776(aQ)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	736	0.50000	0.666636(aQM)	IH
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	3668	0.50000	0.554323(aQ)	
	112 Hexachloroethane	117	8.295	8.285	(1.043)	1752	0.50000	0.716686(aM)	IH
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	5854	0.50000	0.414954(a)	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	380	0.50000	0.639575(aQM)	IH
	115 Nitrobenzene	77	9.469	9.464	(1.191)	1713	5.00000	3.55791	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	1952	0.50000	0.667720(aM)	IH
M	120 1,3-Dichloropropene, Total	75				8736	1.00000	1.22483	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	4177	0.50000	0.447095(a)	
M	121 Total Xylenes	106				38742	1.50000	1.89332	
	118 Naphthalene	128	9.829	9.829	(1.236)	10056	0.50000	0.684099(a)	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	3948	0.50000	0.665965(a)	

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.



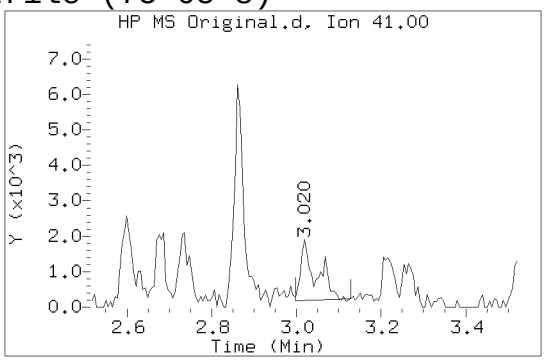
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Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

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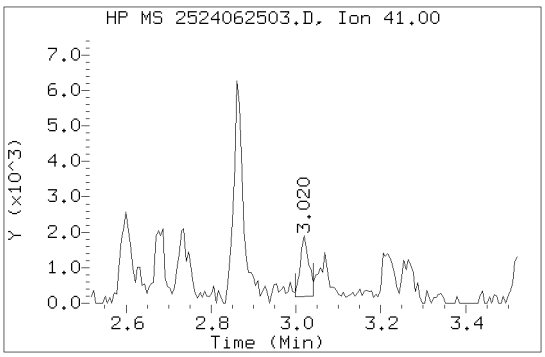
Acetonitrile (75-05-8)

Reason Code: MP

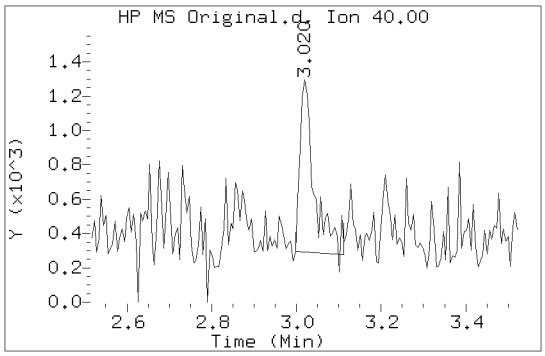
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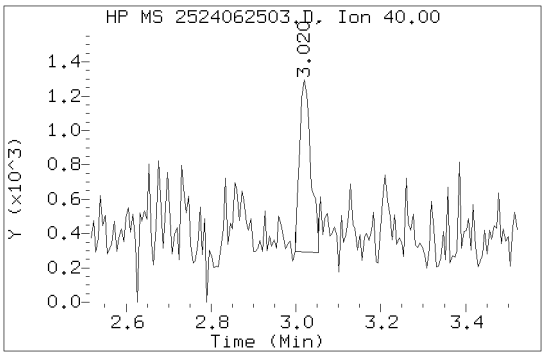
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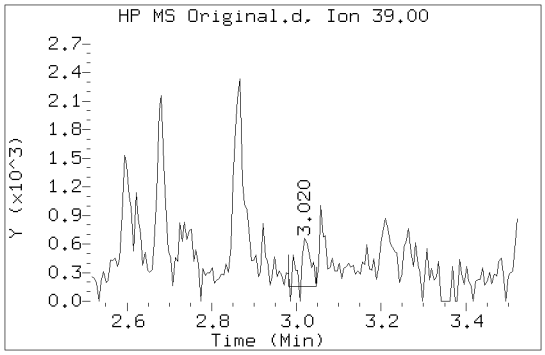
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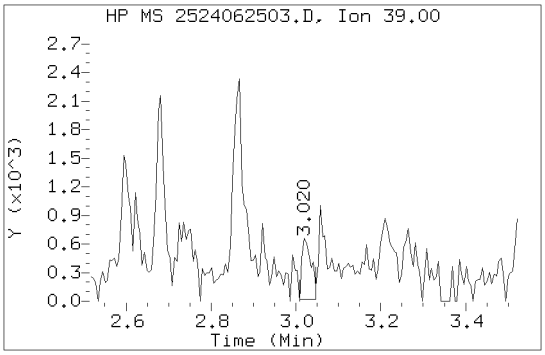
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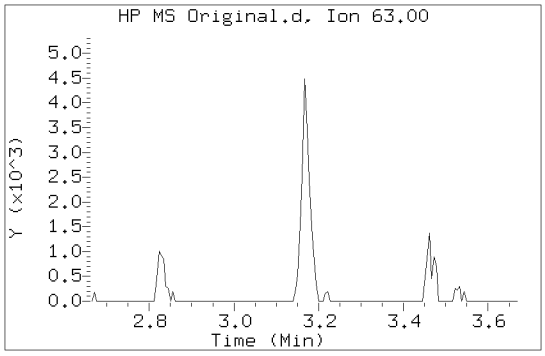
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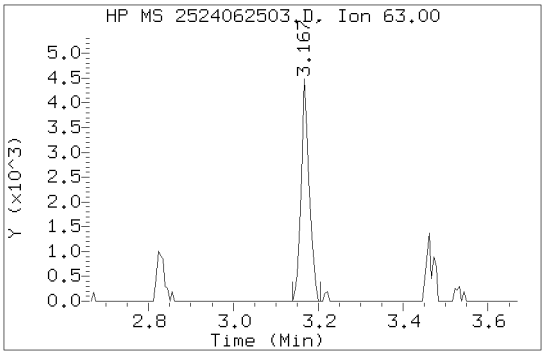
1,1-Dichloroethane (75-34-3)

Reason Code: IH

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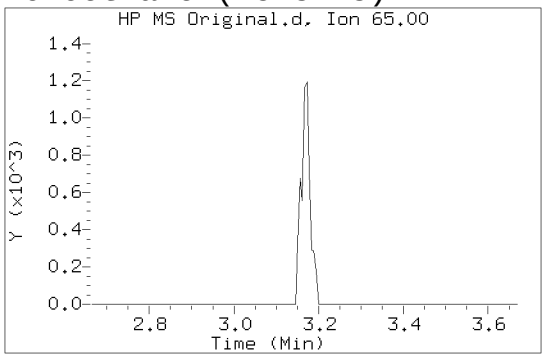


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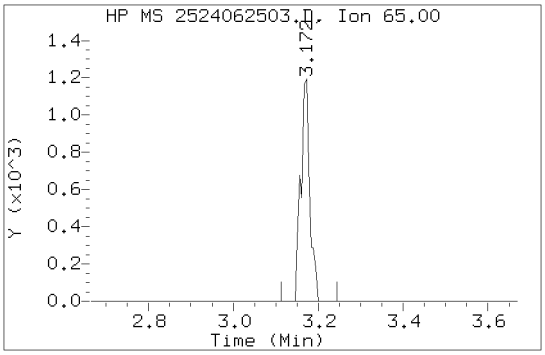
1,1-Dichloroethane (75-34-3)

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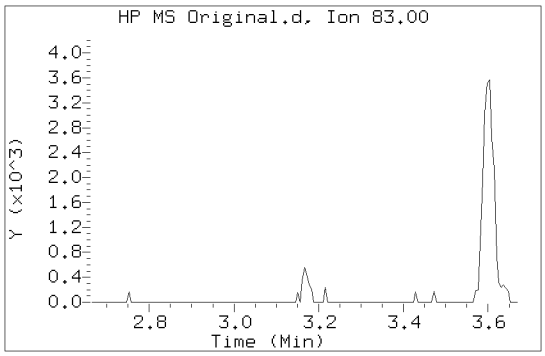
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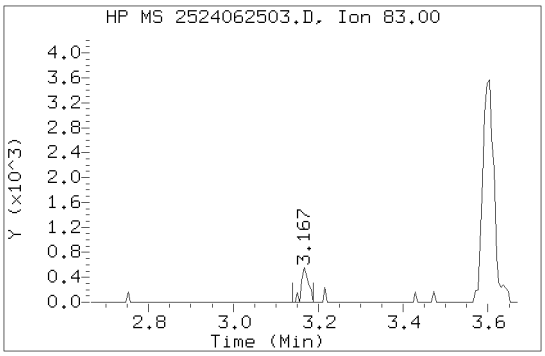
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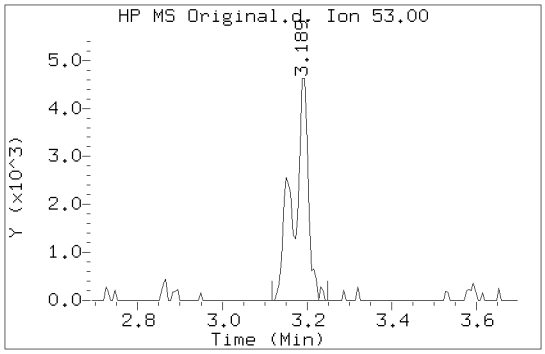
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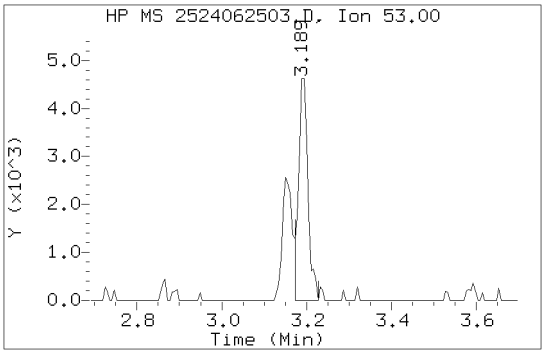
Acrylonitrile (107-13-1)

Reason Code: MP

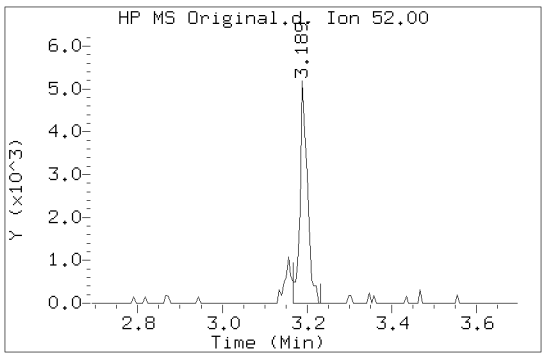
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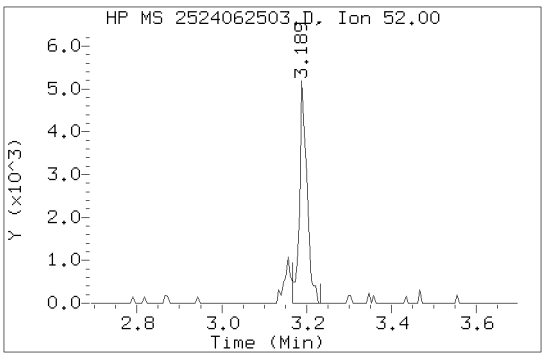
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BEFORE
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AFTER
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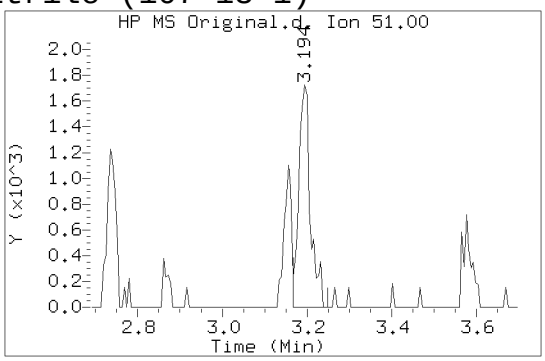


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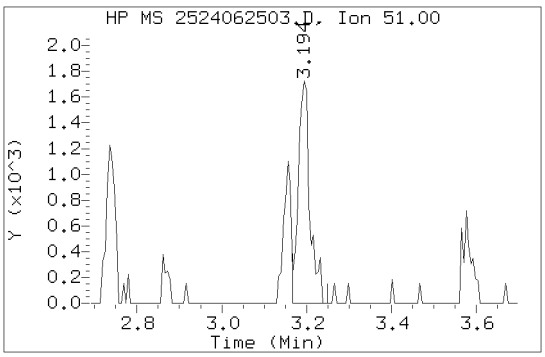
Acrylonitrile (107-13-1)

Reason Code: MP

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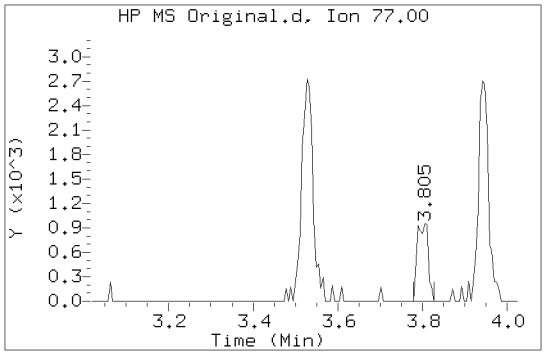
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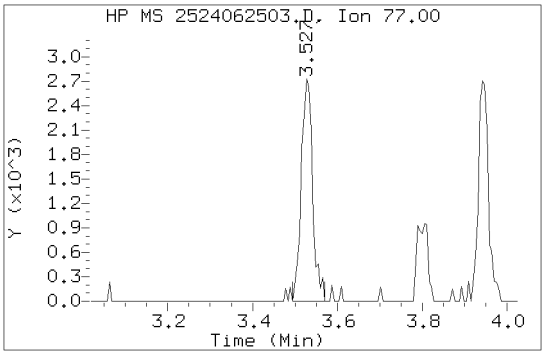
2,2-Dichloropropane (594-20-7)

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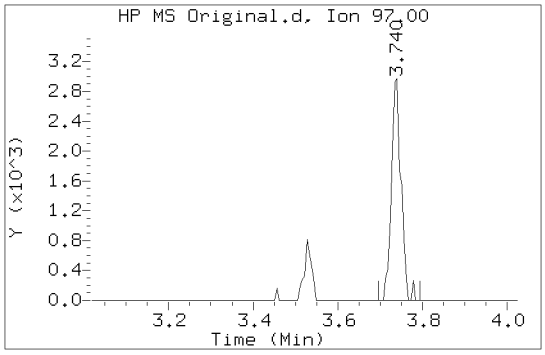
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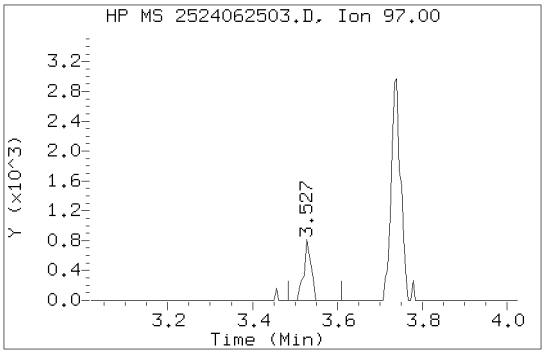
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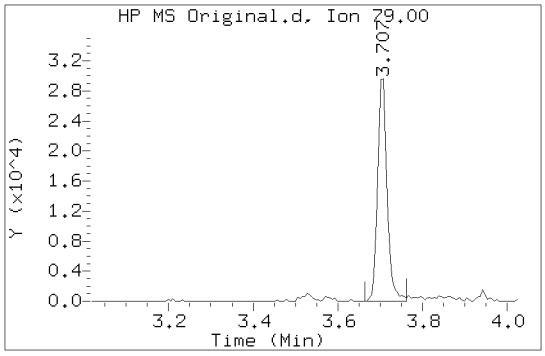
BEFORE
MASS
97
AREA
4715
HEIGHT
2970
25-Jun-2024
18:50



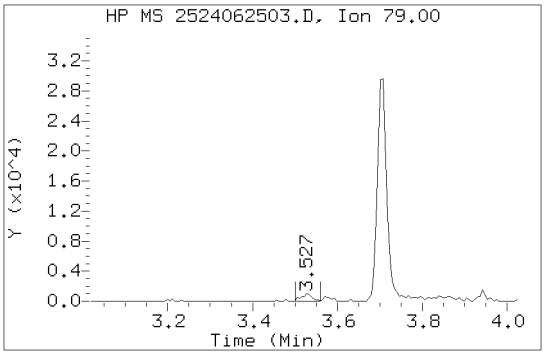
AFTER
MASS
97
AREA
980
HEIGHT
820
25-Jun-2024
19:32



BEFORE
MASS
79
AREA
45962
HEIGHT
29592
25-Jun-2024
18:50



AFTER
MASS
79
AREA
1712
HEIGHT
1011
25-Jun-2024
19:32

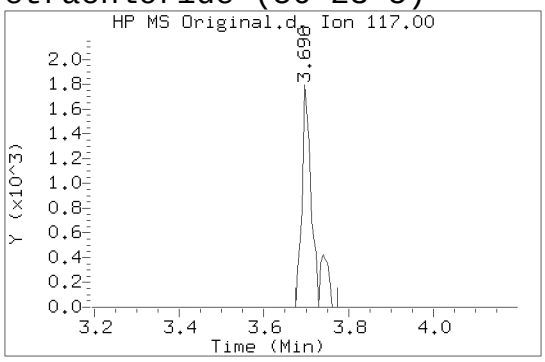


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

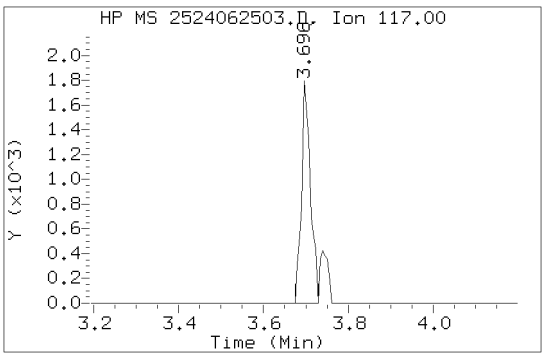
Carbon Tetrachloride (56-23-5)

Reason Code: MP

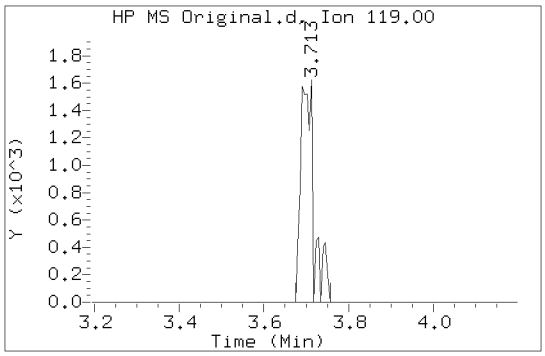
BEFORE
MASS
117
AREA
3171
HEIGHT
1795
25-Jun-2024
18:50



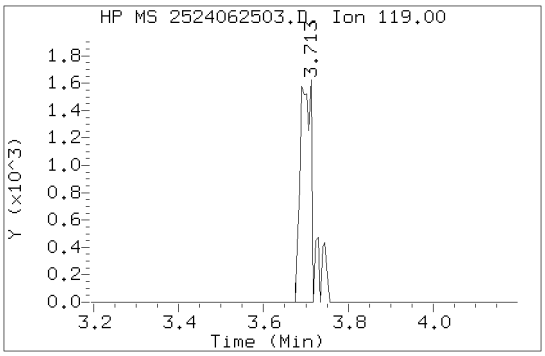
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MASS
117
AREA
2612
HEIGHT
1795
25-Jun-2024
19:32



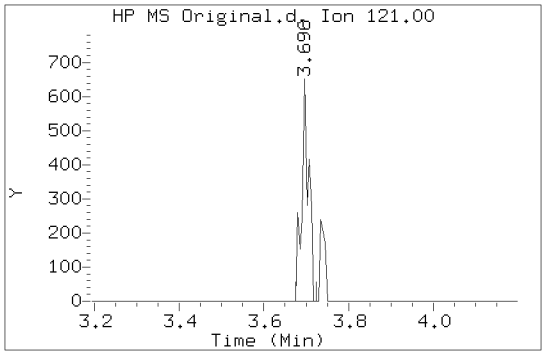
BEFORE
MASS
119
AREA
3504
HEIGHT
1624
25-Jun-2024
18:50



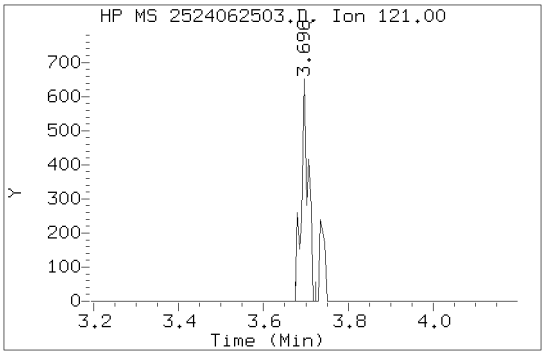
AFTER
MASS
119
AREA
2860
HEIGHT
1624
25-Jun-2024
19:32



BEFORE
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
18:50



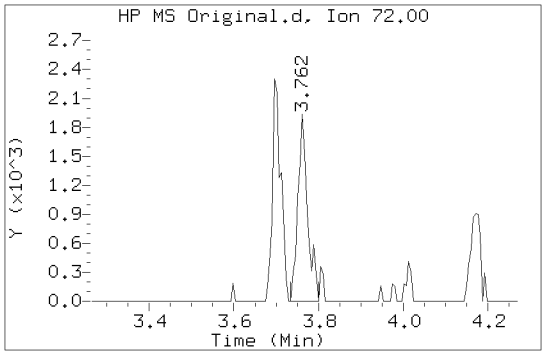
AFTER
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
19:32



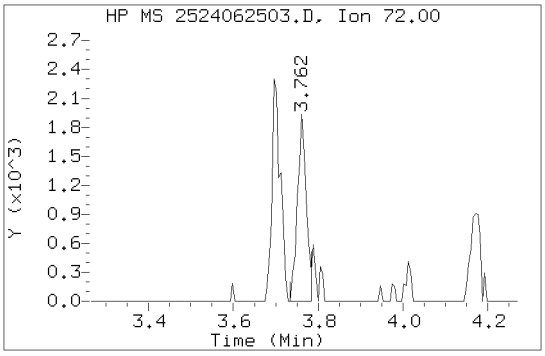
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
3100
HEIGHT
1940
25-Jun-2024
18:50



AFTER
MASS
72
AREA
2817
HEIGHT
1940
25-Jun-2024
19:32

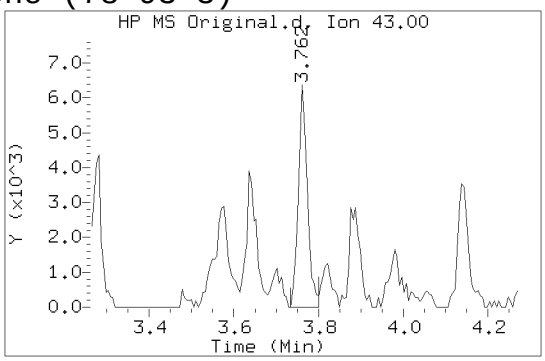


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InstruID : ms25.i
LabSampID : VSTD00.5

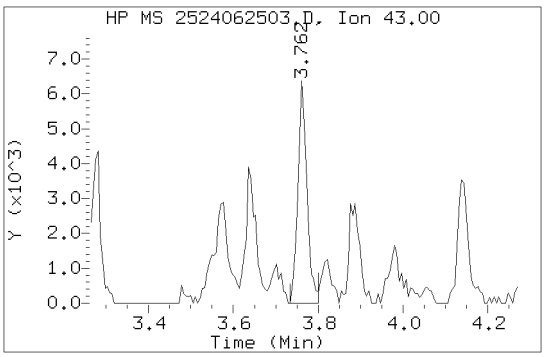
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
18:50



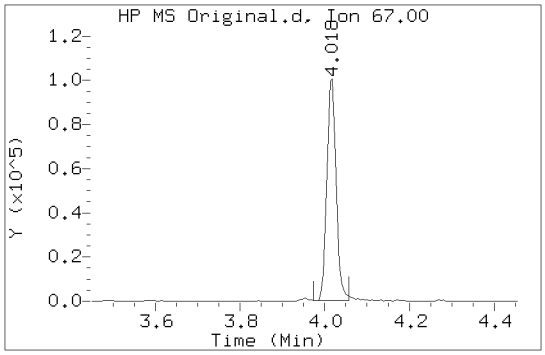
AFTER
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
19:32



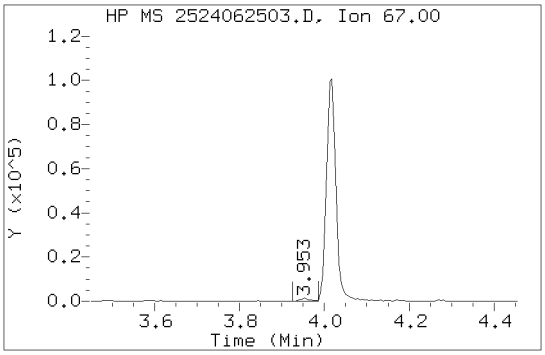
Methacrylonitrile (126-98-7)

Reason Code: H

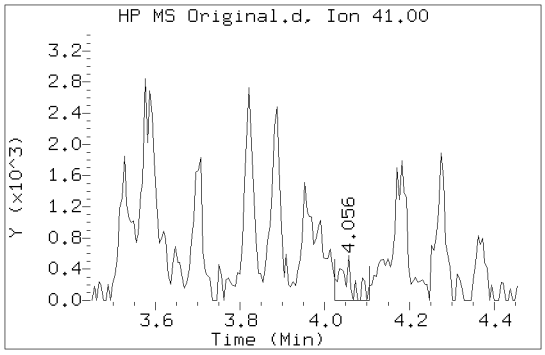
BEFORE
MASS
67
AREA
151134
HEIGHT
100353
25-Jun-2024
18:50



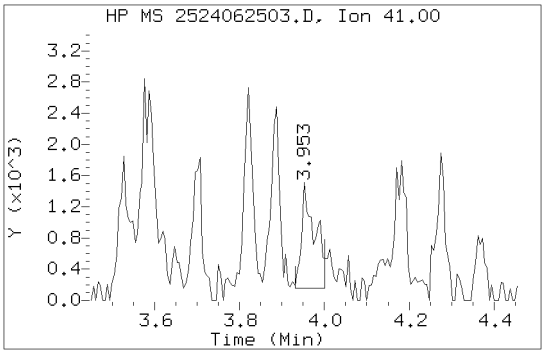
AFTER
MASS
67
AREA
2086
HEIGHT
1381
25-Jun-2024
19:32



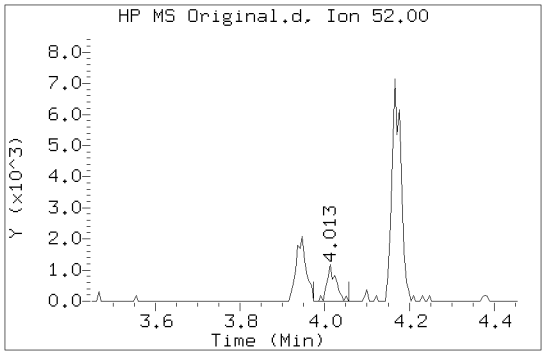
BEFORE
MASS
41
AREA
1170
HEIGHT
573
25-Jun-2024
18:50



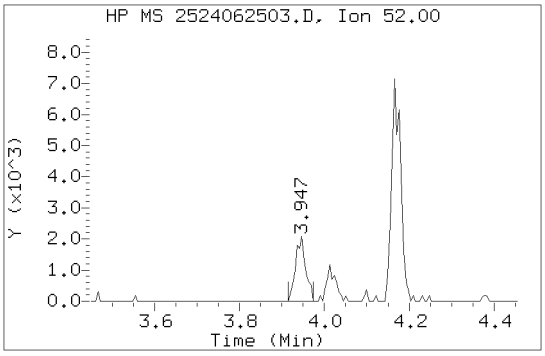
AFTER
MASS
41
AREA
2974
HEIGHT
1355
25-Jun-2024
19:32



BEFORE
MASS
52
AREA
1694
HEIGHT
1178
25-Jun-2024
18:50



AFTER
MASS
52
AREA
3467
HEIGHT
2088
25-Jun-2024
19:32

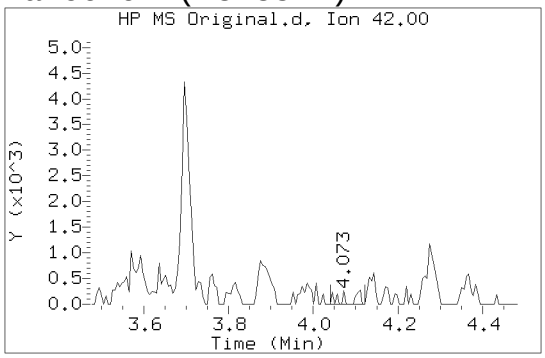


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LabSampID : VSTD00.5

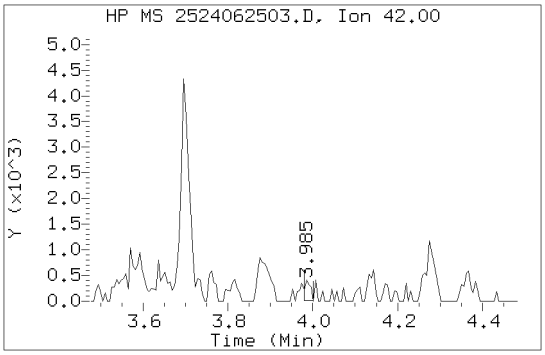
Isobutyl alcohol (78-83-1)

Reason Code: H

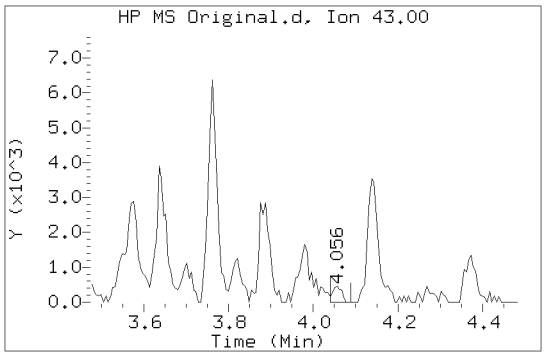
BEFORE
MASS
42
AREA
442
HEIGHT
269
25-Jun-2024
18:50



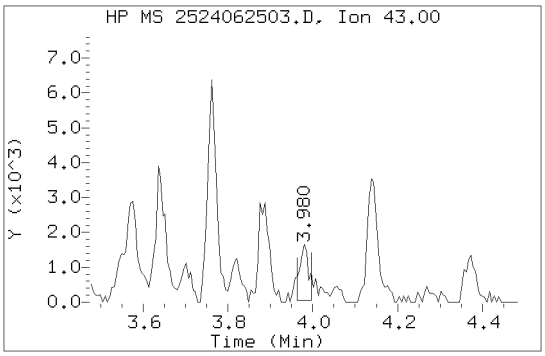
AFTER
MASS
42
AREA
394
HEIGHT
411
25-Jun-2024
19:32



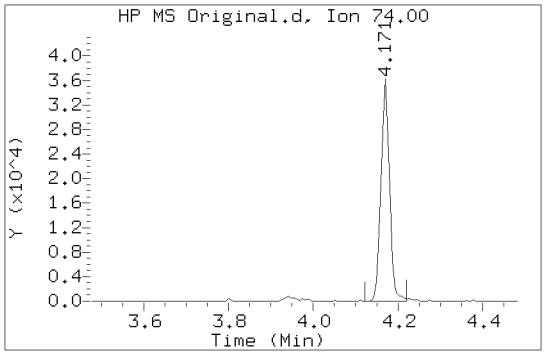
BEFORE
MASS
43
AREA
701
HEIGHT
454
25-Jun-2024
18:50



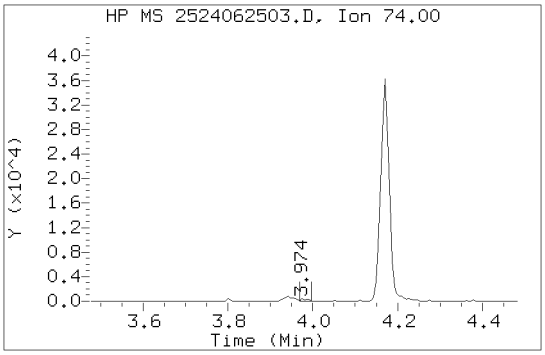
AFTER
MASS
43
AREA
2339
HEIGHT
1609
25-Jun-2024
19:32



BEFORE
MASS
74
AREA
50301
HEIGHT
36256
25-Jun-2024
18:50



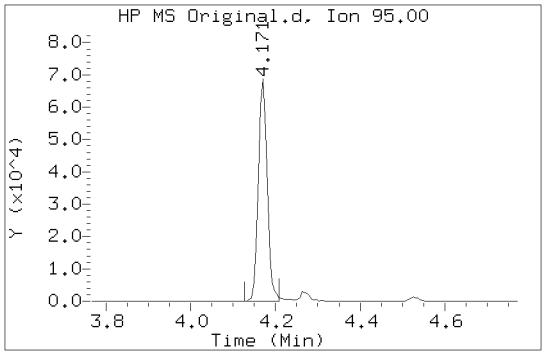
AFTER
MASS
74
AREA
400
HEIGHT
443
25-Jun-2024
19:32



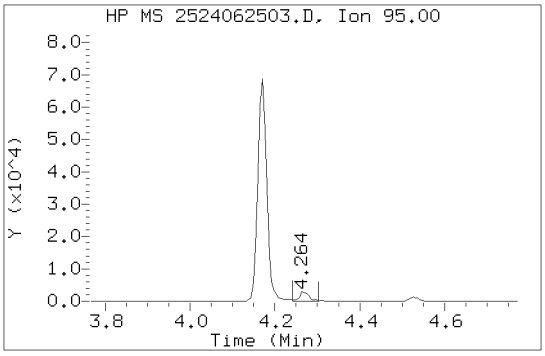
Trichloroethene (79-01-6)

Reason Code: H

BEFORE
MASS
95
AREA
100436
HEIGHT
68728
25-Jun-2024
18:50



AFTER
MASS
95
AREA
4490
HEIGHT
3049
25-Jun-2024
19:32

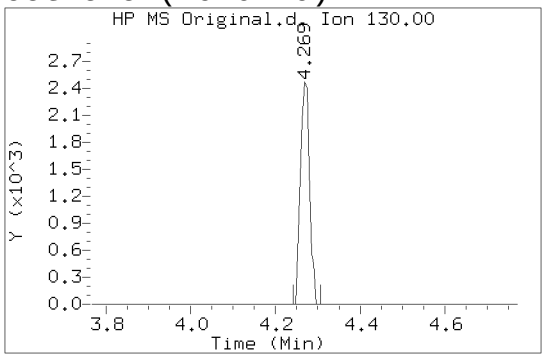


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InstruID : ms25.i
LabSampID : VSTD00.5

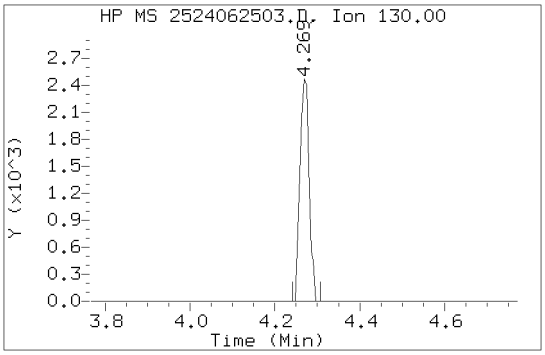
Trichloroethene (79-01-6)

Reason Code: H

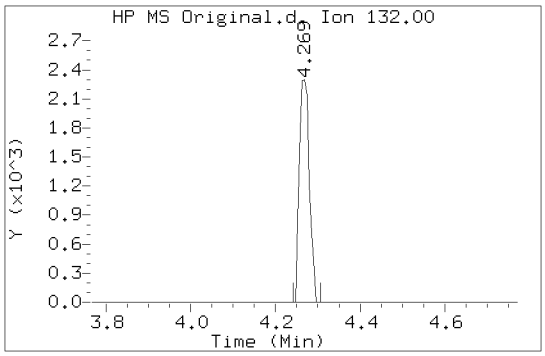
BEFORE
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
18:50



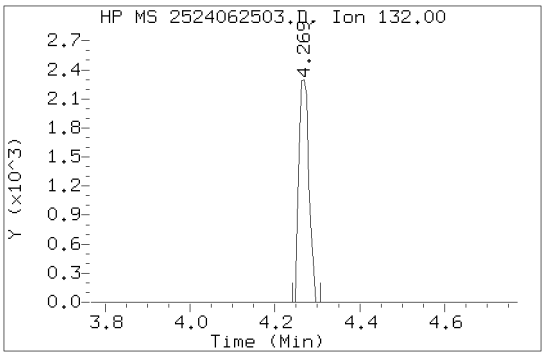
AFTER
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
19:32



BEFORE
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
18:50



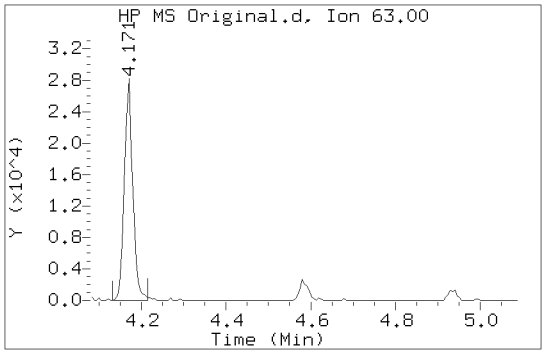
AFTER
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
19:32



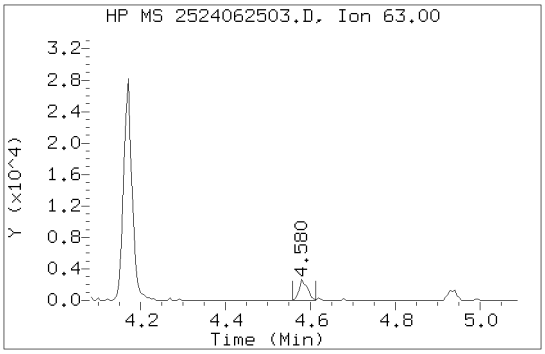
1,2-Dichloropropane (78-87-5)

Reason Code: H

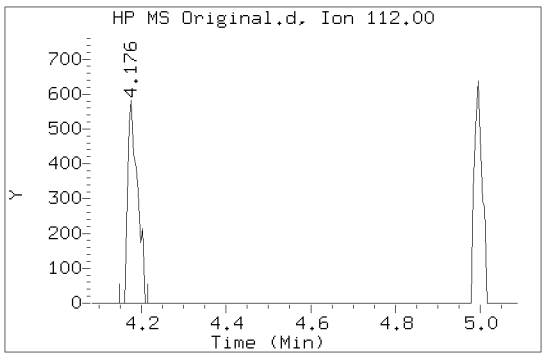
BEFORE
MASS
63
AREA
39289
HEIGHT
28192
25-Jun-2024
18:50



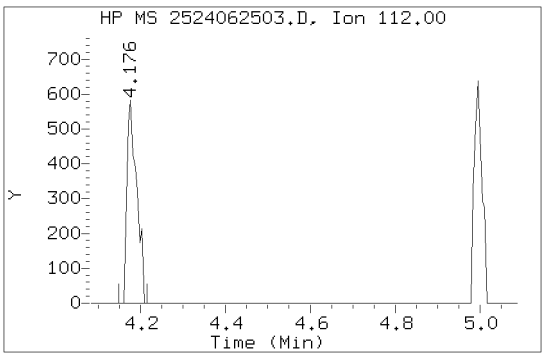
AFTER
MASS
63
AREA
3551
HEIGHT
2696
25-Jun-2024
19:32



BEFORE
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
18:50



AFTER
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
19:32

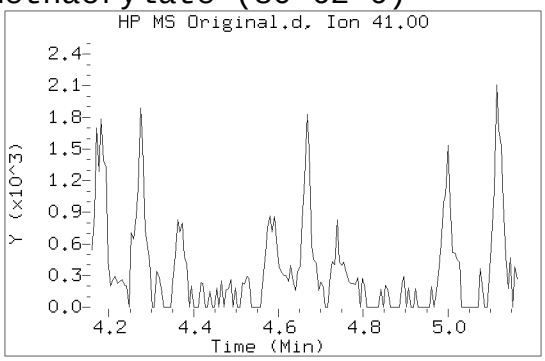


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LabSampID : VSTD00.5

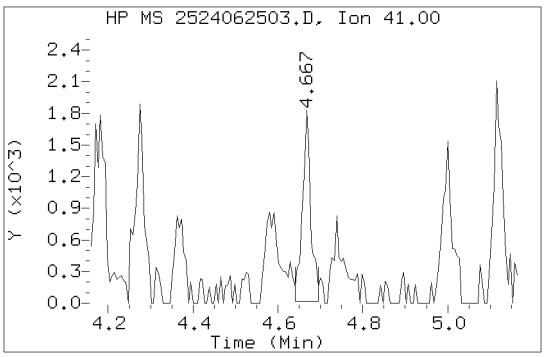
Methyl methacrylate (80-62-6)

Reason Code: IH

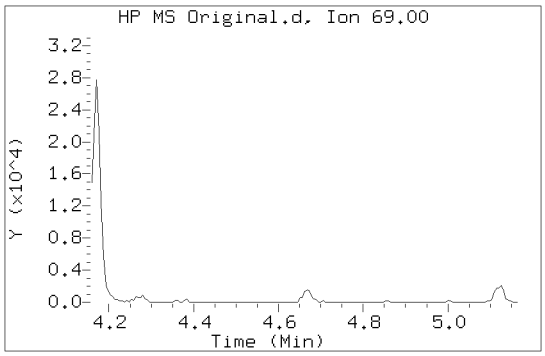
BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:50



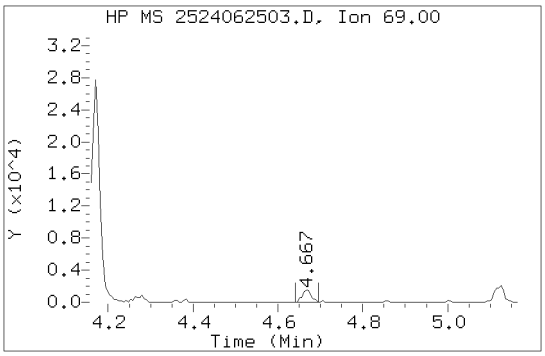
AFTER
MASS
41
AREA
2494
HEIGHT
1807
25-Jun-2024
19:32



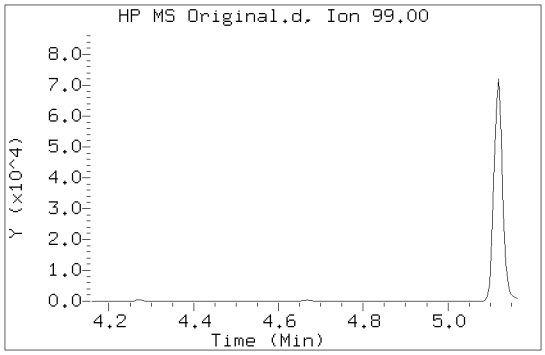
BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:50



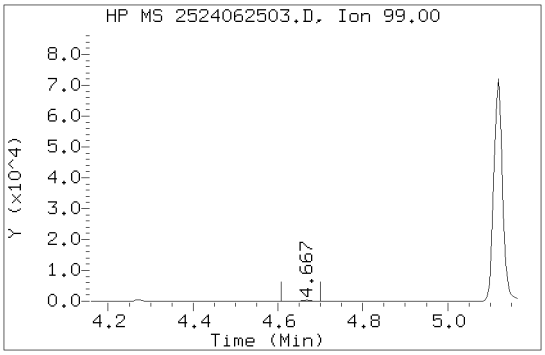
AFTER
MASS
69
AREA
2267
HEIGHT
1535
25-Jun-2024
19:32



BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:50



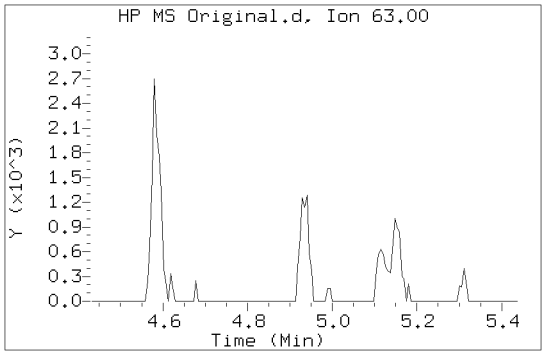
AFTER
MASS
99
AREA
362
HEIGHT
347
25-Jun-2024
19:32



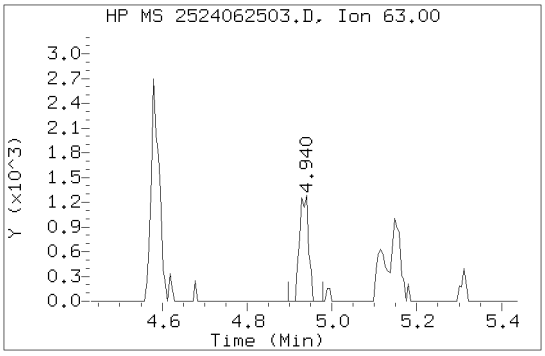
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
63
AREA
1903
HEIGHT
1284
25-Jun-2024
19:32

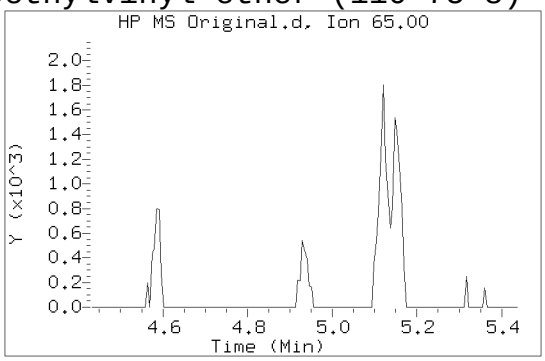


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

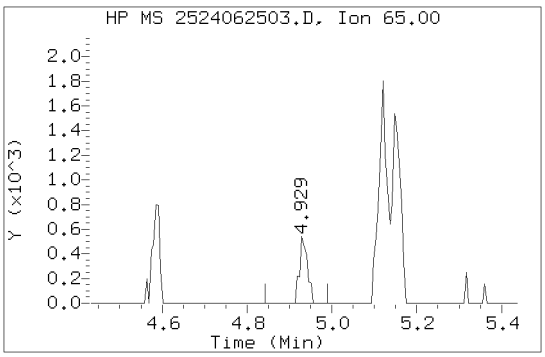
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

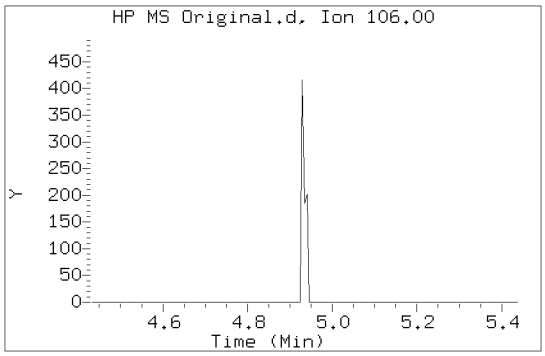
BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
18:50



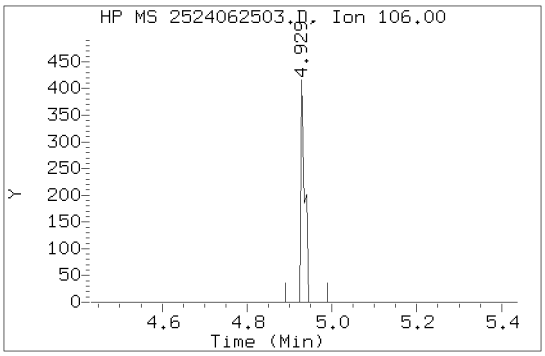
AFTER
MASS
65
AREA
708
HEIGHT
543
25-Jun-2024
19:32



BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
18:50



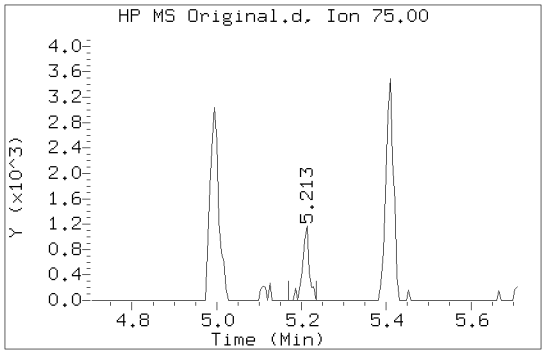
AFTER
MASS
106
AREA
262
HEIGHT
416
25-Jun-2024
19:32



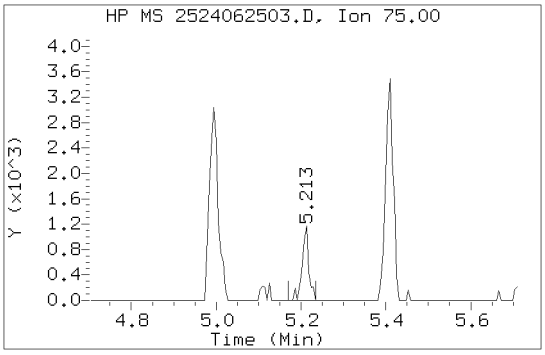
Chloroacetonitrile (107-14-2)

Reason Code: H

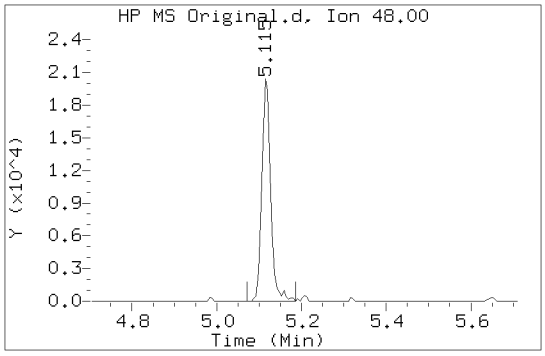
BEFORE
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
18:50



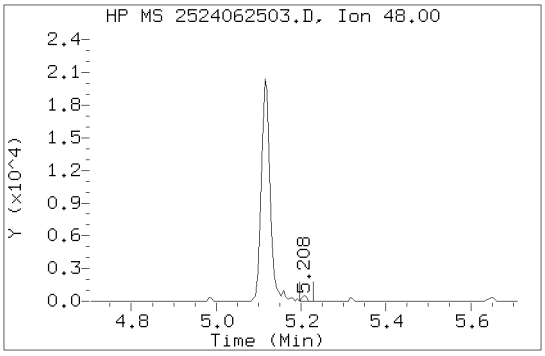
AFTER
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
19:32



BEFORE
MASS
48
AREA
29612
HEIGHT
20416
25-Jun-2024
18:50



AFTER
MASS
48
AREA
388
HEIGHT
520
25-Jun-2024
19:32

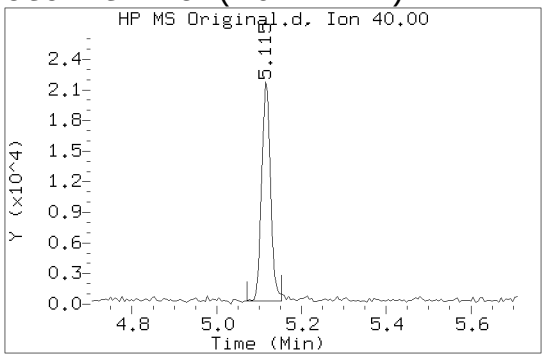


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

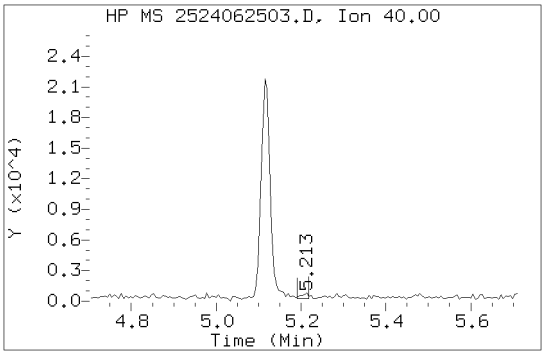
Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
31606
HEIGHT
21477
25-Jun-2024
18:50



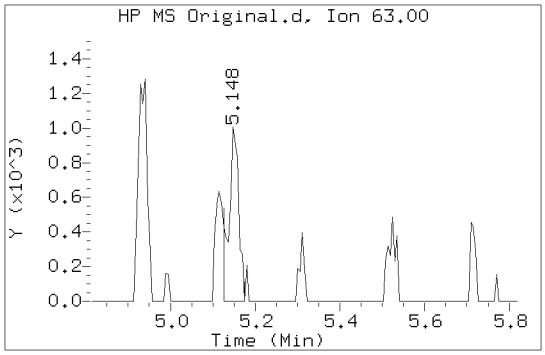
AFTER
MASS
40
AREA
602
HEIGHT
530
25-Jun-2024
19:32



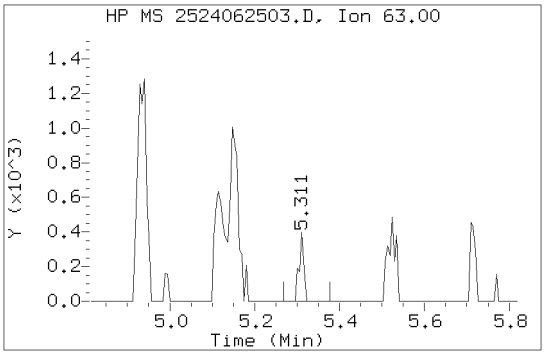
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

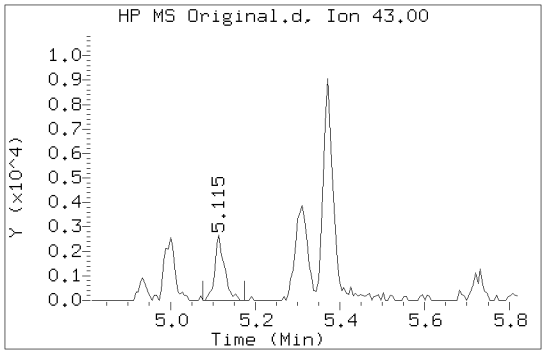
BEFORE
MASS
63
AREA
1657
HEIGHT
1005
25-Jun-2024
18:50



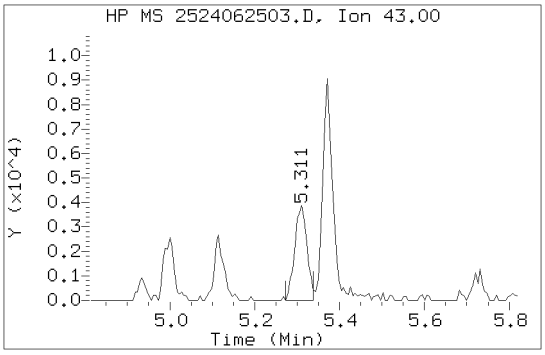
AFTER
MASS
63
AREA
307
HEIGHT
397
25-Jun-2024
19:32



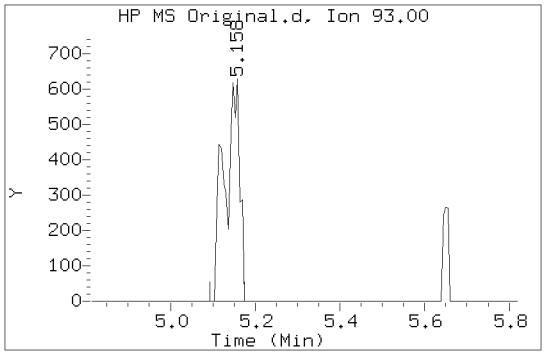
BEFORE
MASS
43
AREA
4212
HEIGHT
2670
25-Jun-2024
18:50



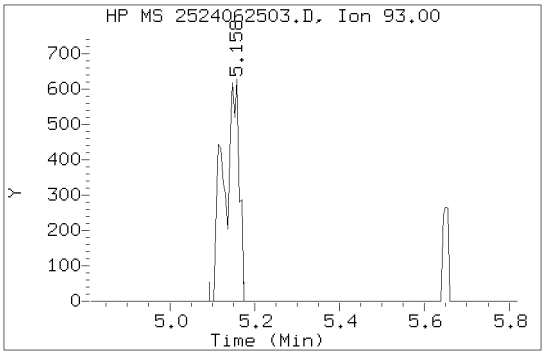
AFTER
MASS
43
AREA
7826
HEIGHT
3868
25-Jun-2024
19:32



BEFORE
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
18:50



AFTER
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
19:32

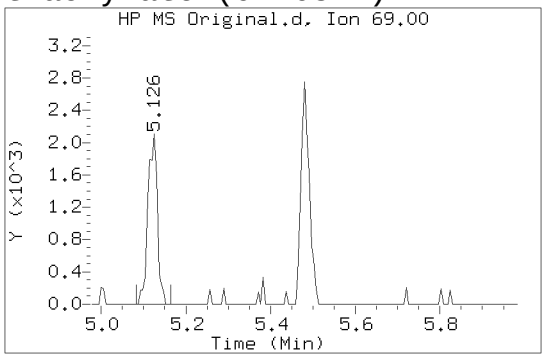


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Inj Date : 25-JUN-2024 11:03
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LabSampID : VSTD00.5

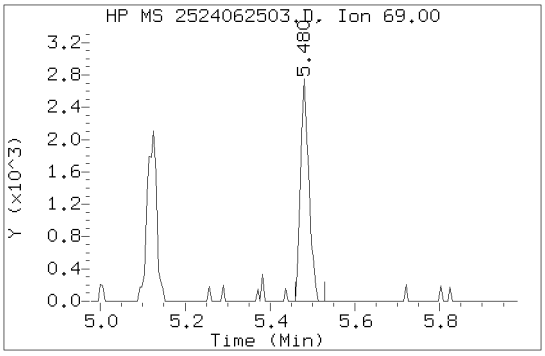
Ethyl Methacrylate (97-63-2)

Reason Code: H

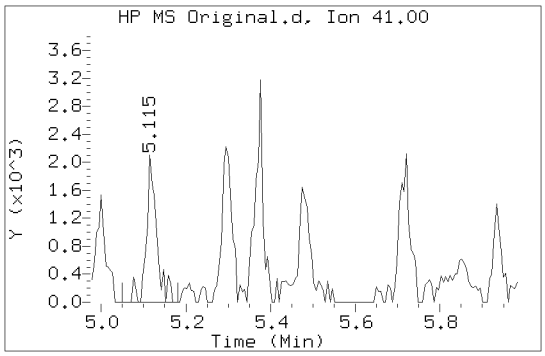
BEFORE
MASS
69
AREA
3279
HEIGHT
2105
25-Jun-2024
18:50



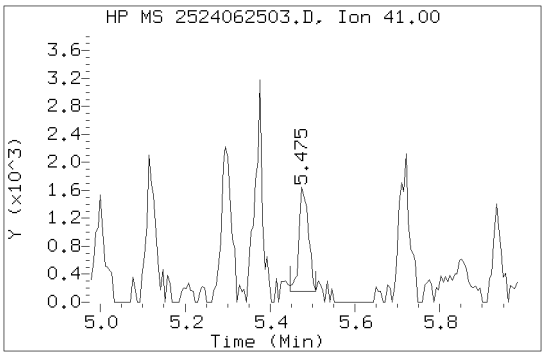
AFTER
MASS
69
AREA
3766
HEIGHT
2751
25-Jun-2024
19:32



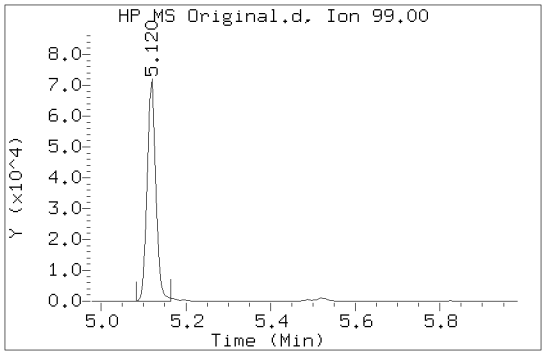
BEFORE
MASS
41
AREA
3522
HEIGHT
2108
25-Jun-2024
18:50



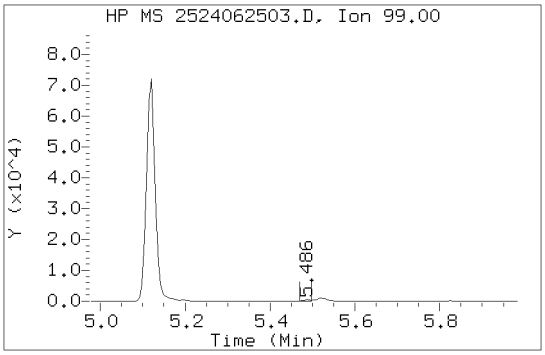
AFTER
MASS
41
AREA
2315
HEIGHT
1491
25-Jun-2024
19:32



BEFORE
MASS
99
AREA
103308
HEIGHT
72032
25-Jun-2024
18:50



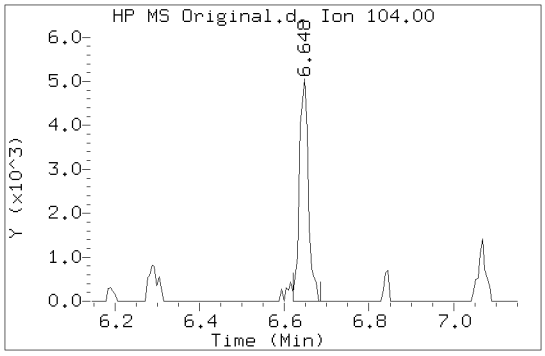
AFTER
MASS
99
AREA
564
HEIGHT
580
25-Jun-2024
19:32



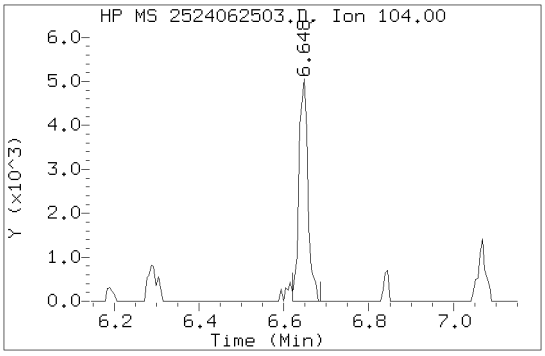
Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
18:50



AFTER
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
19:32

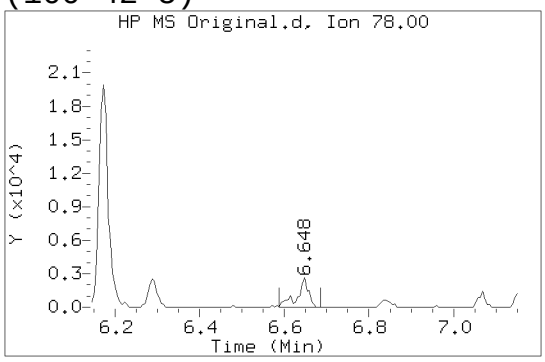


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LabSampID : VSTD00.5

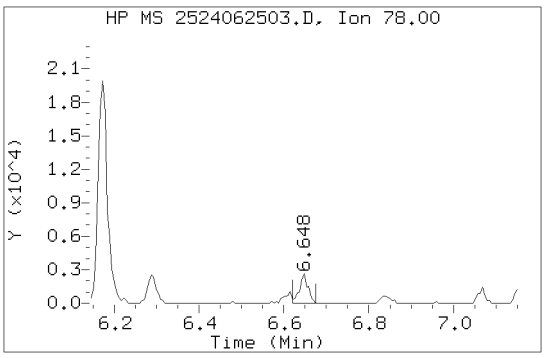
Styrene (100-42-5)

Reason Code: MP

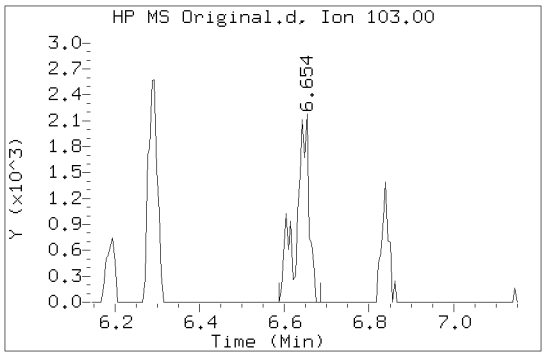
BEFORE
MASS
78
AREA
4781
HEIGHT
2634
25-Jun-2024
18:50



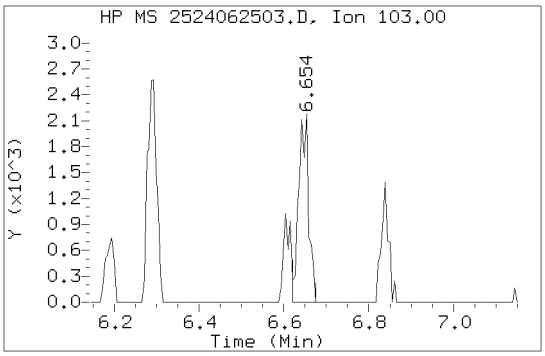
AFTER
MASS
78
AREA
3660
HEIGHT
2633
25-Jun-2024
19:32



BEFORE
MASS
103
AREA
4697
HEIGHT
2183
25-Jun-2024
18:50



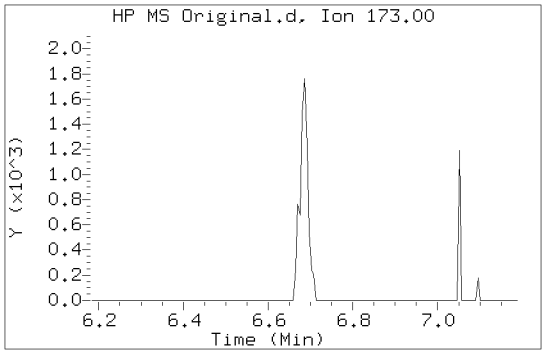
AFTER
MASS
103
AREA
3568
HEIGHT
2181
25-Jun-2024
19:32



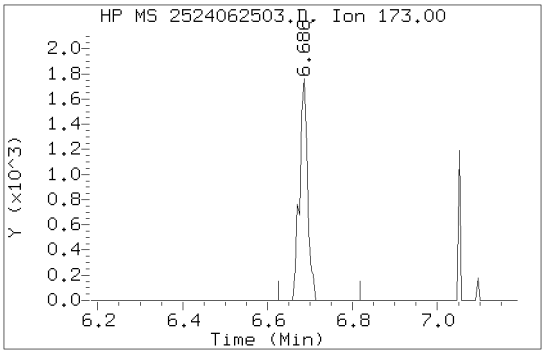
Bromoform (75-25-2)

Reason Code: IH

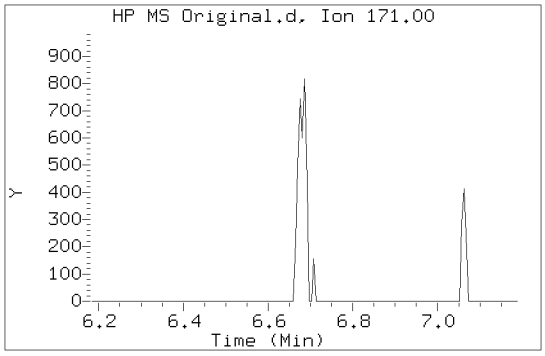
BEFORE
MASS
173
AREA
0
HEIGHT
0
25-Jun-2024
18:50



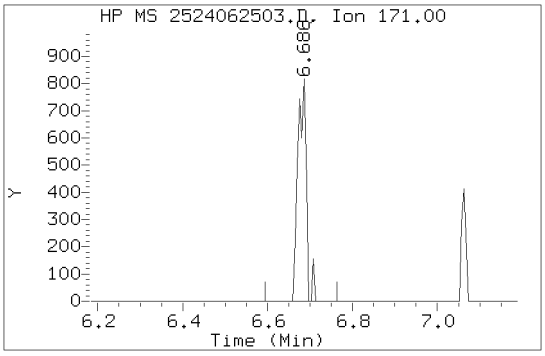
AFTER
MASS
173
AREA
2337
HEIGHT
1762
25-Jun-2024
19:32



BEFORE
MASS
171
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
171
AREA
1136
HEIGHT
817
25-Jun-2024
19:32

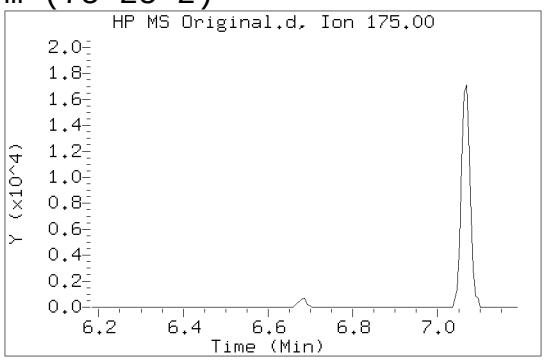


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LabSampID : VSTD00.5

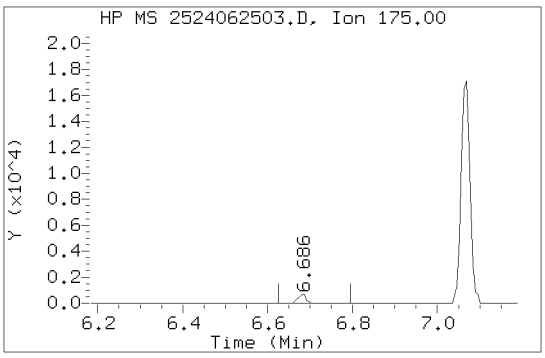
Bromoform (75-25-2)

Reason Code: IH

BEFORE
MASS
175
AREA
0
HEIGHT
0
25-Jun-2024
18:50



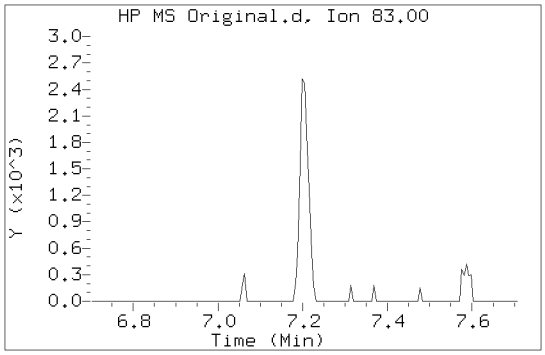
AFTER
MASS
175
AREA
874
HEIGHT
676
25-Jun-2024
19:32



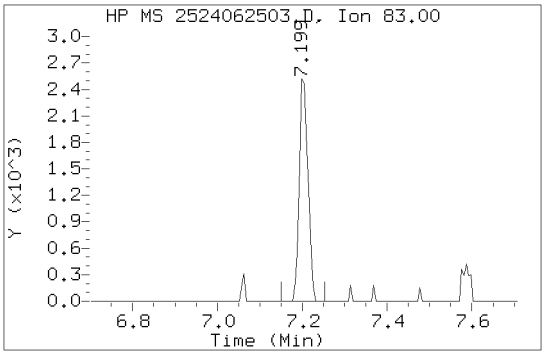
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code: IH

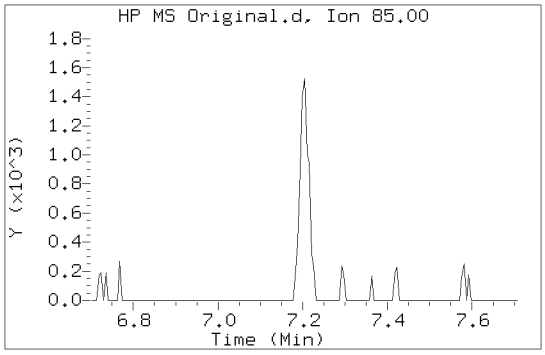
BEFORE
MASS
83
AREA
0
HEIGHT
0
25-Jun-2024
18:50



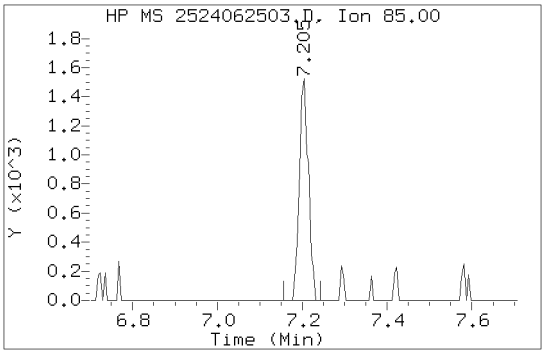
AFTER
MASS
83
AREA
3602
HEIGHT
2520
25-Jun-2024
19:32



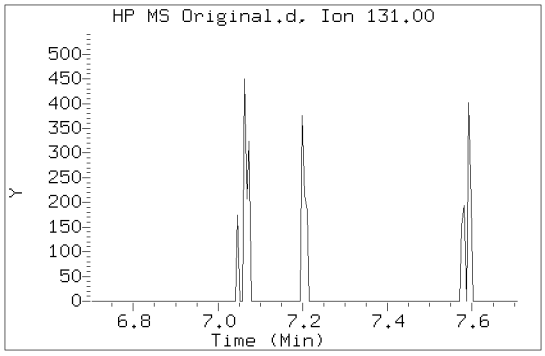
BEFORE
MASS
85
AREA
0
HEIGHT
0
25-Jun-2024
18:50



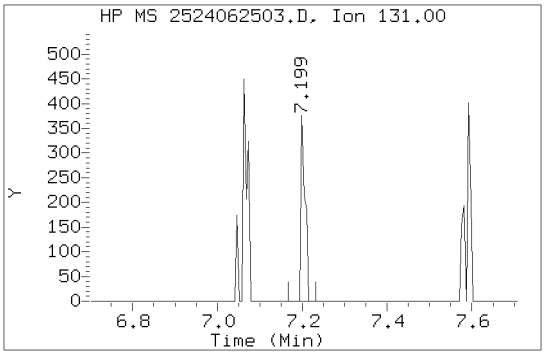
AFTER
MASS
85
AREA
2263
HEIGHT
1524
25-Jun-2024
19:32



BEFORE
MASS
131
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
131
AREA
253
HEIGHT
376
25-Jun-2024
19:32

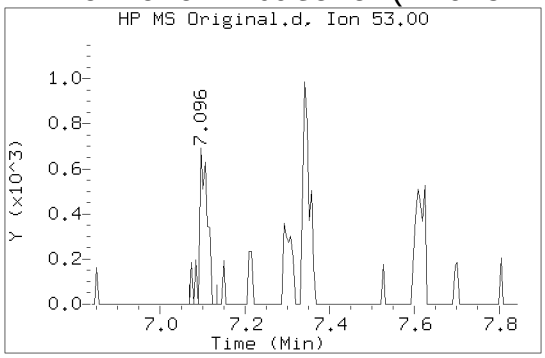


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LabSampID : VSTD00.5

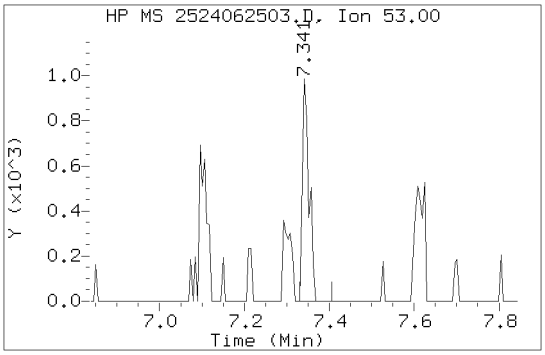
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

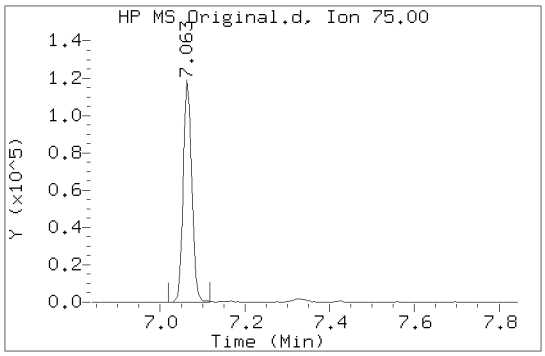
BEFORE
MASS
53
AREA
949
HEIGHT
694
25-Jun-2024
18:50



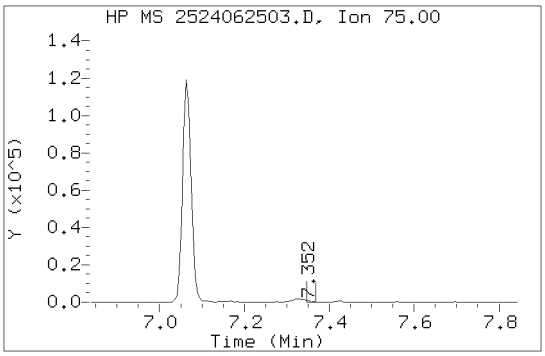
AFTER
MASS
53
AREA
1054
HEIGHT
986
25-Jun-2024
19:32



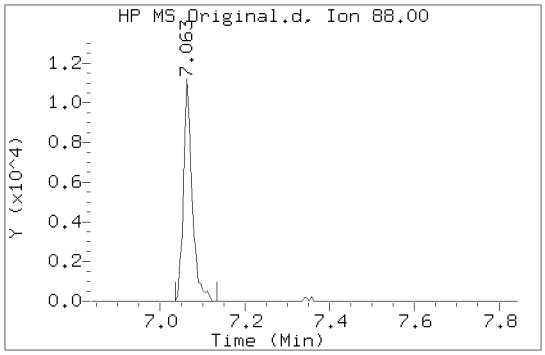
BEFORE
MASS
75
AREA
166839
HEIGHT
119104
25-Jun-2024
18:50



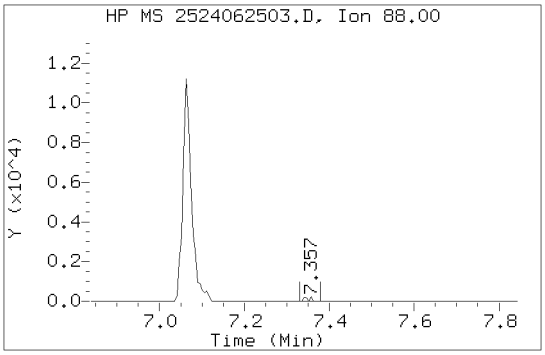
AFTER
MASS
75
AREA
731
HEIGHT
1082
25-Jun-2024
19:32



BEFORE
MASS
88
AREA
15893
HEIGHT
11208
25-Jun-2024
18:50



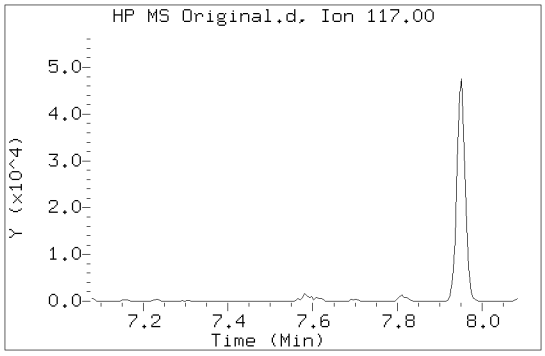
AFTER
MASS
88
AREA
202
HEIGHT
235
25-Jun-2024
19:32



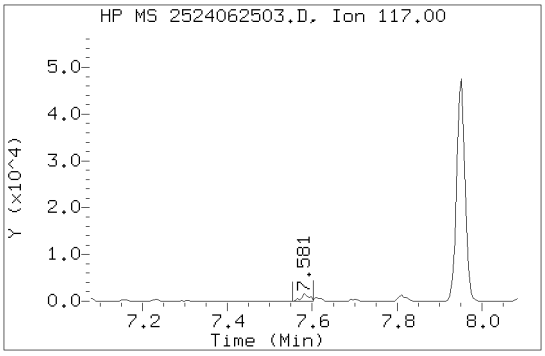
Pentachloroethane (76-01-7)

Reason Code: H

BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
117
AREA
2125
HEIGHT
1588
25-Jun-2024
19:32

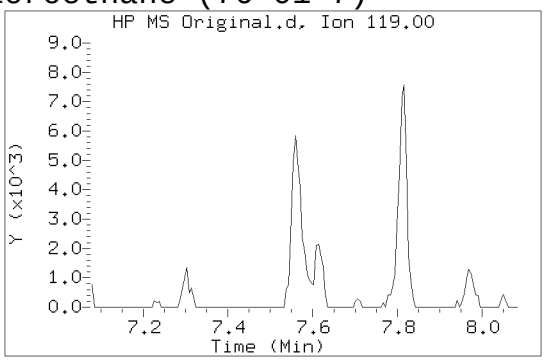


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

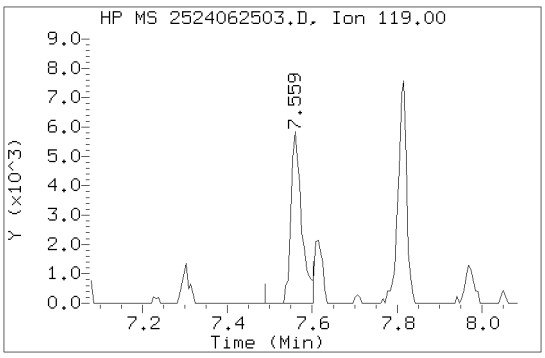
Pentachloroethane (76-01-7)

Reason Code: H

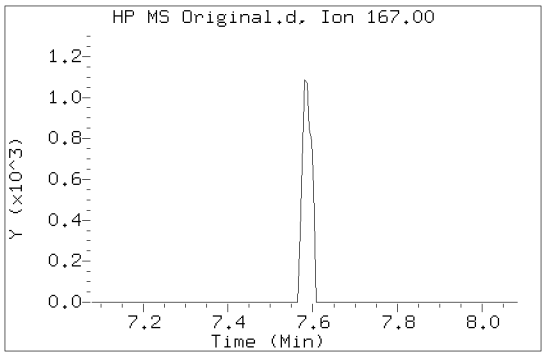
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



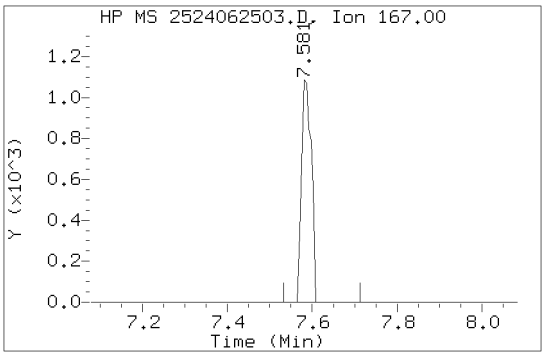
AFTER
MASS
119
AREA
10337
HEIGHT
5835
25-Jun-2024
19:32



BEFORE
MASS
167
AREA
0
HEIGHT
0
25-Jun-2024
18:50



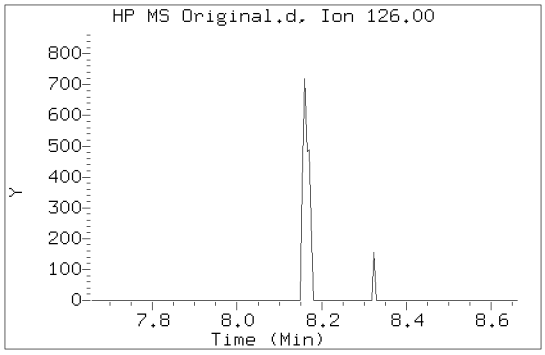
AFTER
MASS
167
AREA
1755
HEIGHT
1086
25-Jun-2024
19:32



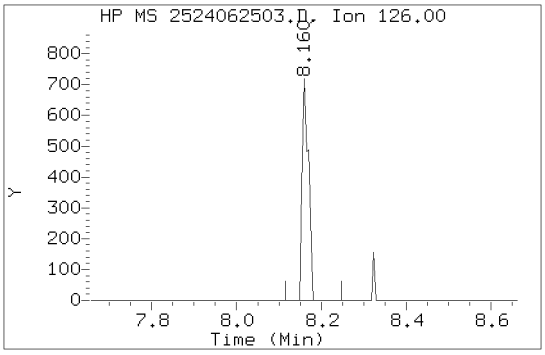
Benzyl Chloride (100-44-7)

Reason Code: IH

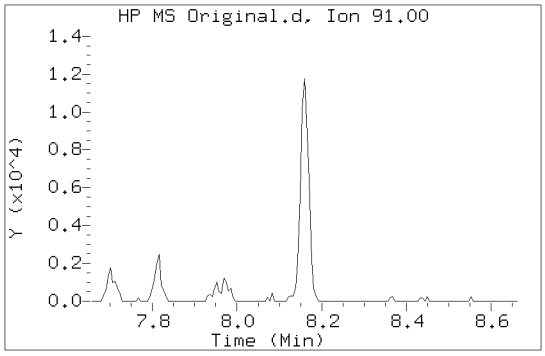
BEFORE
MASS
126
AREA
0
HEIGHT
0
25-Jun-2024
18:50



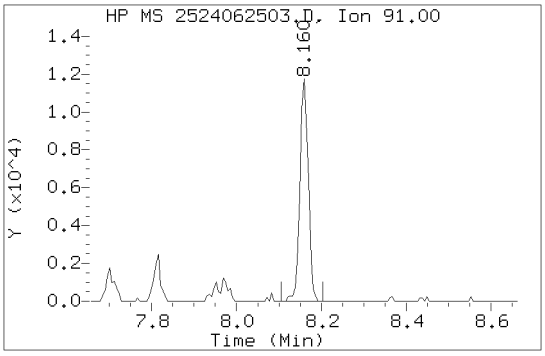
AFTER
MASS
126
AREA
736
HEIGHT
719
25-Jun-2024
19:32



BEFORE
MASS
91
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
91
AREA
16144
HEIGHT
11748
25-Jun-2024
19:32

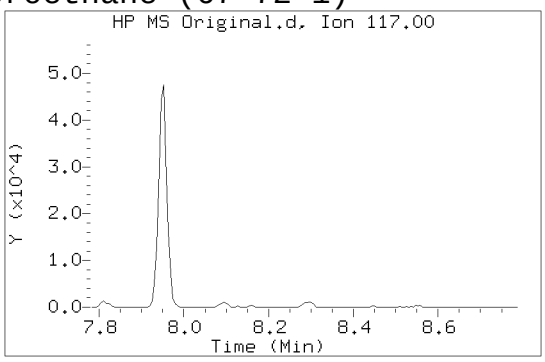


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LabSampID : VSTD00.5

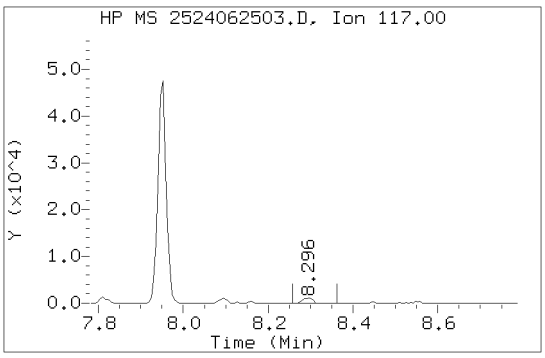
Hexachloroethane (67-72-1)

Reason Code: IH

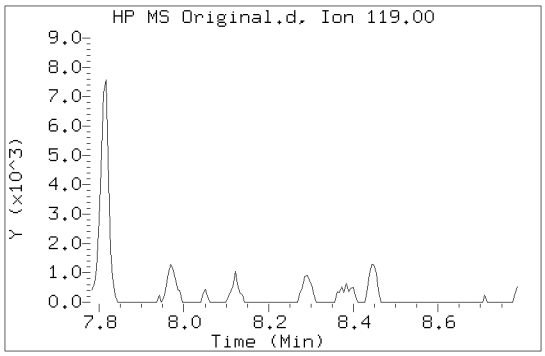
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50



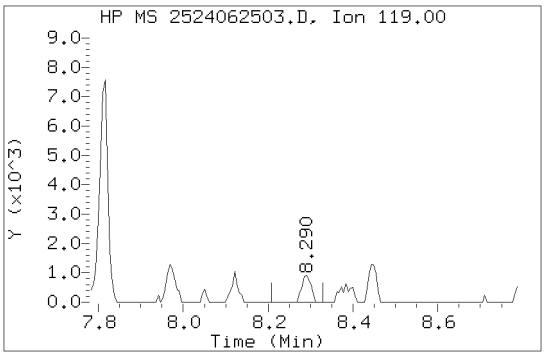
AFTER
MASS
117
AREA
1752
HEIGHT
1065
25-Jun-2024
19:32



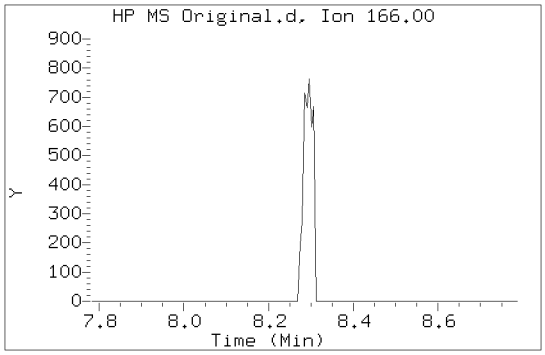
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



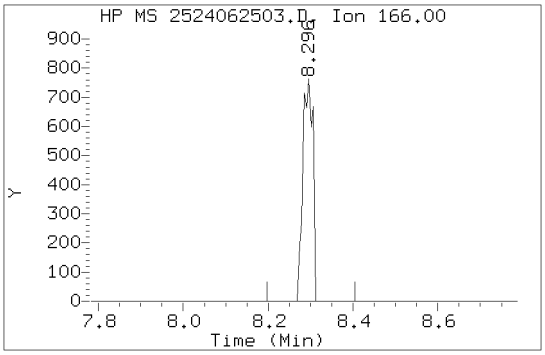
AFTER
MASS
119
AREA
1391
HEIGHT
916
25-Jun-2024
19:32



BEFORE
MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:50



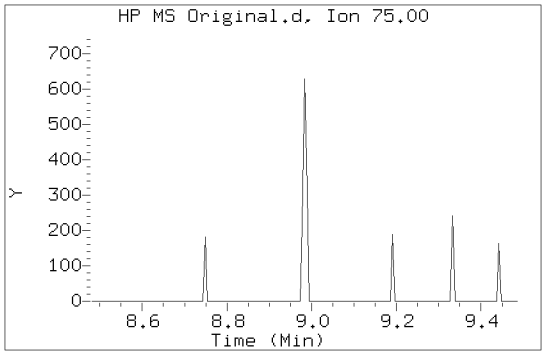
AFTER
MASS
166
AREA
1267
HEIGHT
763
25-Jun-2024
19:32



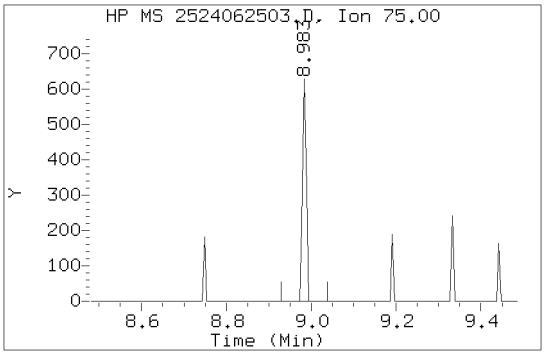
1,2-Dibromo-3-chloropropane (96-12-8)

Reason Code: IH

BEFORE
MASS
75
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
75
AREA
380
HEIGHT
629
25-Jun-2024
19:32

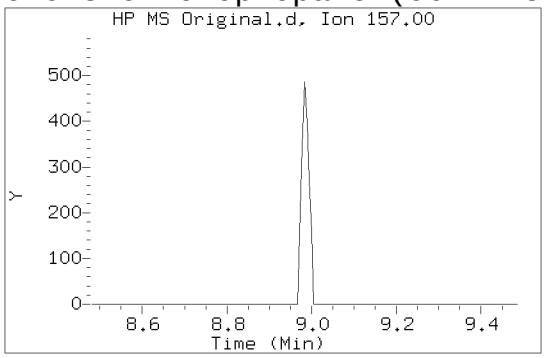


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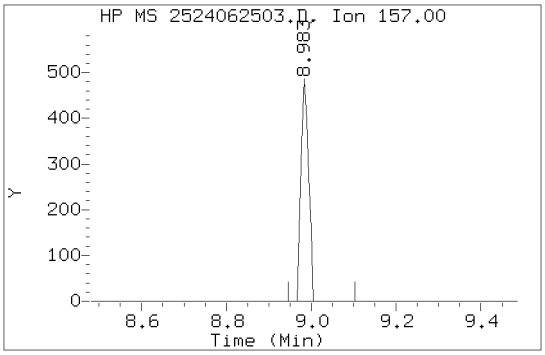
1,2-Dibromo-3-chloropropane (96-12-8)

Reason Code: IH

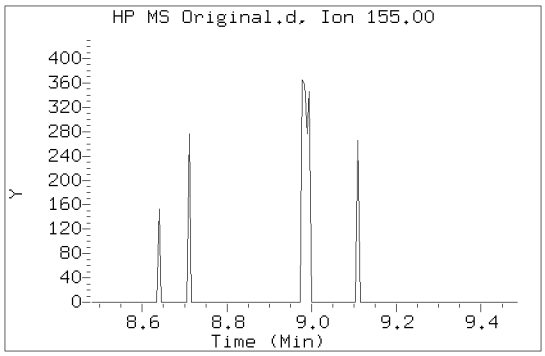
BEFORE
MASS
157
AREA
0
HEIGHT
0
25-Jun-2024
18:50



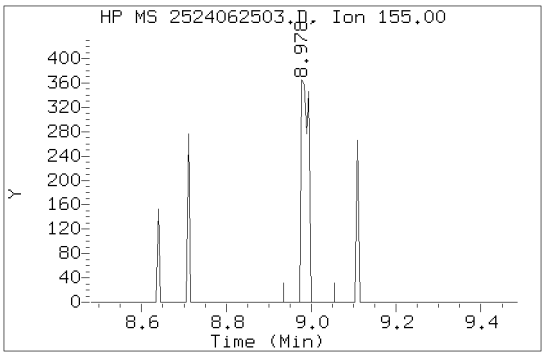
AFTER
MASS
157
AREA
607
HEIGHT
486
25-Jun-2024
19:32



BEFORE
MASS
155
AREA
0
HEIGHT
0
25-Jun-2024
18:50



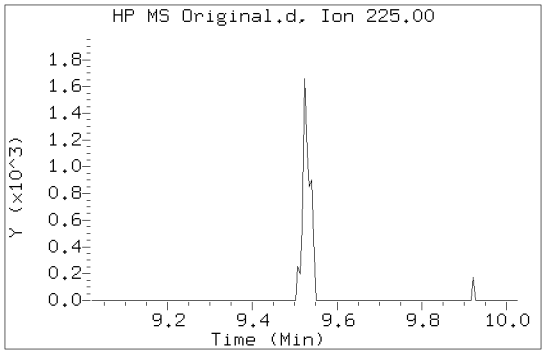
AFTER
MASS
155
AREA
440
HEIGHT
365
25-Jun-2024
19:32



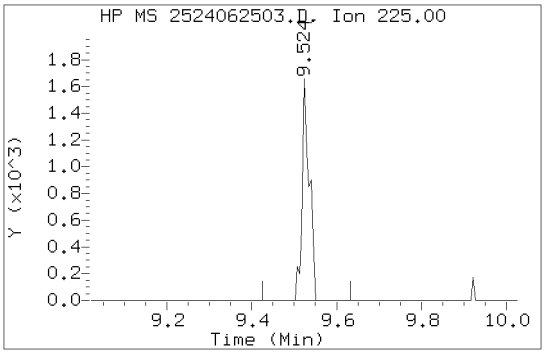
Hexachlorobutadiene (87-68-3)

Reason Code: IH

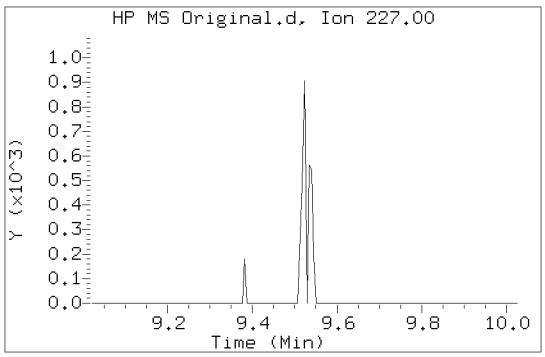
BEFORE
MASS
225
AREA
0
HEIGHT
0
25-Jun-2024
18:50



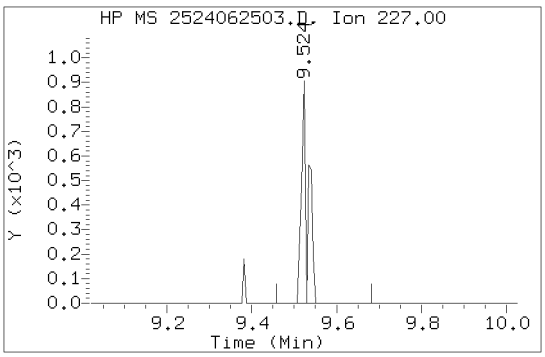
AFTER
MASS
225
AREA
1952
HEIGHT
1658
25-Jun-2024
19:32



BEFORE
MASS
227
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
227
AREA
972
HEIGHT
906
25-Jun-2024
19:32



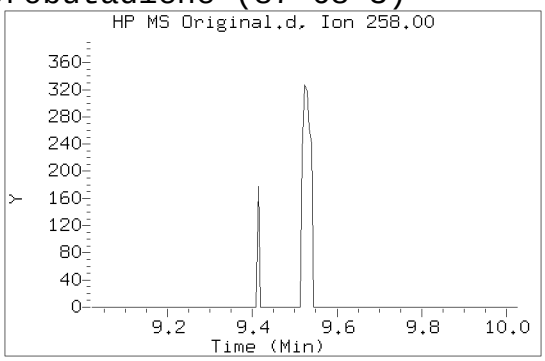
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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code: IH

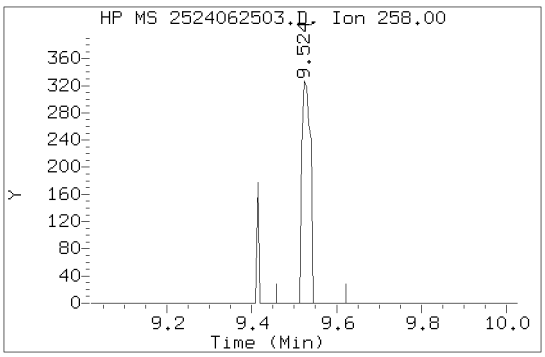
BEFORE

MASS
258
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER

MASS
258
AREA
450
HEIGHT
327
25-Jun-2024
19:32



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:03
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062504.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062504.D
Lab Smp Id: 1234
Inj Date : 25-JUN-2024 11:23
Operator : ILY Inst ID: ms25.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	9759	1.00000	0.798759(a)	
2 Chloromethane	50	1.644	1.645	(0.394)	10647	1.00000	0.883614(a)	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	11765	1.00000	0.851811(a)	
4 Bromomethane	94	1.922	1.923	(0.461)	8135	1.00000	0.801577(a)	
5 Chloroethane	64	2.004	2.005	(0.481)	12457	1.00000	1.03559	
6 Pentane	41	2.092	2.092	(0.502)	17356	1.00000	1.00059	
7 Trichlorofluoromethane	101	2.103	2.103	(0.504)	16496	1.00000	0.871950(a)	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	14889	1.00000	0.850548(a)	
9 Ethyl Ether	74	2.277	2.278	(0.546)	4502	1.00000	0.845727(a)	
10 1,1-Dichloroethene	61	2.408	2.409	(0.577)	9580	1.00000	0.901873(a)	
11 Freon 113	101	2.424	2.425	(0.581)	6683	1.00000	0.894489(a)	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	19710	1.00000	0.860158(a)	
13 Iodomethane	127	2.506	2.507	(0.601)	2132	1.00000	1.02386(Q)	
14 Acrolein	56	2.599	2.600	(0.623)	7284	5.00000	4.25125(Q)	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	4784	5.00000	5.47317	
16 3-Chloro-1-propene	41	2.675	2.676	(0.642)	7346	1.00000	0.965171(a)	
17 Methylene Chloride	84	2.741	2.741	(0.657)	8206	1.00000	0.945742(a)	
18 Acetone	58	2.752	2.752	(0.660)	5095	5.00000	5.29999	
19 Methyl acetate	74	2.812	2.812	(0.674)	2657	1.00000	0.934498(a)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	9408	1.00000	0.904277(a)	
21 Hexane	57	2.866	2.867	(0.687)	20884	1.00000	0.920374(a)	

Data File: 2524062504.D
Report Date: 25-Jun-2024 19:32

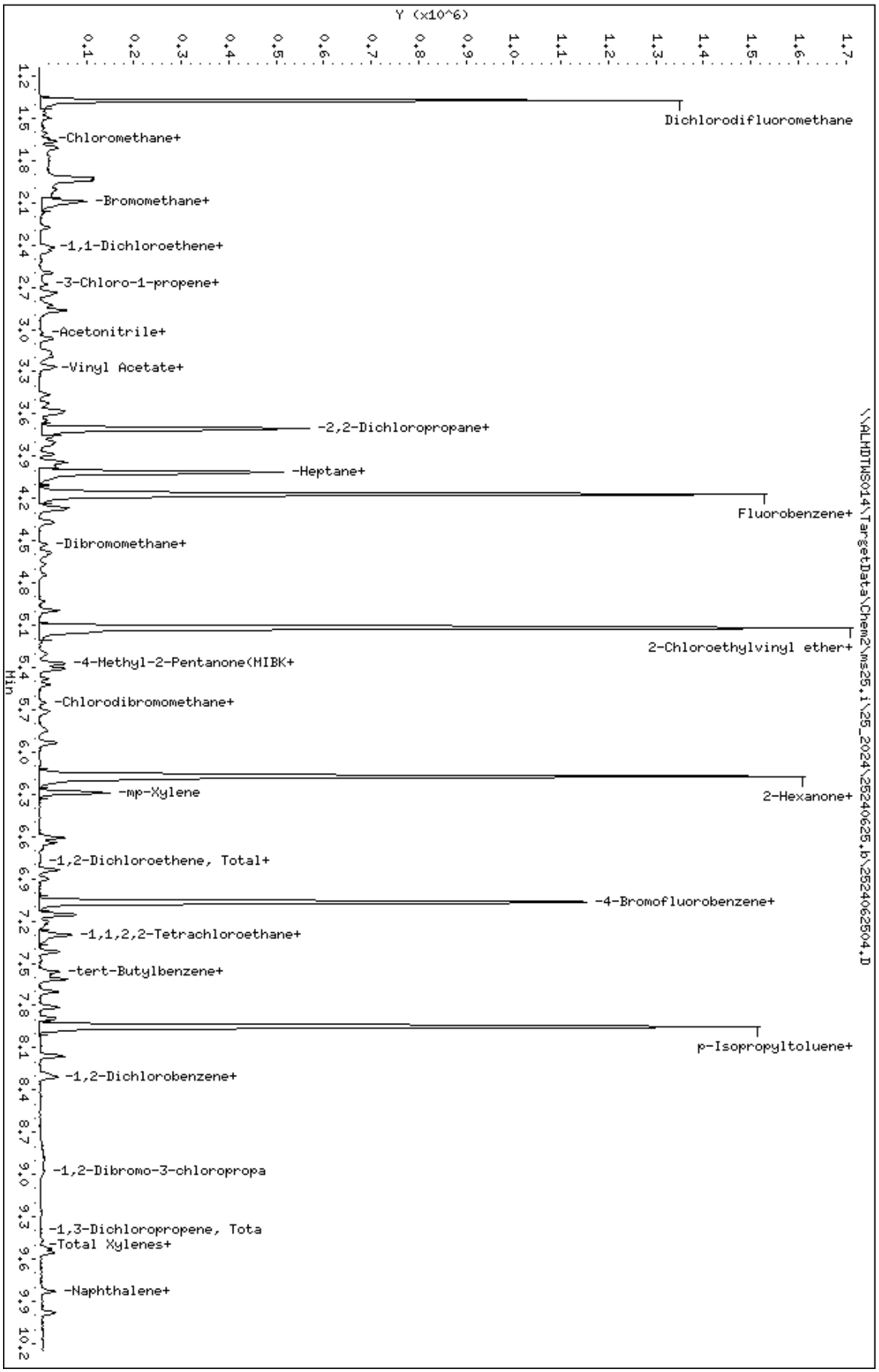
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	19555	1.00000	0.960311(aQ)	
	23 tert.- Butyl Alcohol	59	2.888	2.889	(0.693)	4416	5.00000	4.60155	
	24 Acetonitrile	41	3.019	3.020	(0.724)	4555	5.00000	4.23730(Q)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	20480	1.00000	0.886965(a)	
	26 Chloroprene	53	3.156	3.156	(0.757)	9725	1.00000	0.830748(a)	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	12220	1.00000	0.862135(a)	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	15210	5.00000	4.12033(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	20293	1.00000	0.827489(a)	
	30 n-Propanol	41	3.259	3.260	(0.782)	4454	10.0000	9.79133(QM)	MP
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	1240	1.00000	0.891049(aQ)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	9228	1.00000	0.874773(a)	
	33 2,2-Dichloropropane	77	3.521	3.522	(0.844)	9944	1.00000	0.880243(a)	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	3622	1.00000	0.796188(a)	
	35 Cyclohexane	84	3.587	3.587	(0.860)	11261	1.00000	0.889664(a)	
	36 Chloroform	83	3.598	3.598	(0.863)	12667	1.00000	0.827831(a)	
	37 Ethyl Acetate	43	3.641	3.642	(0.873)	8670	1.00000	0.860873(a)	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	7047	1.00000	0.829585(aQ)	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	6249	1.00000	0.966574(aM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	257474	30.0000	29.5526	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	11632	5.00000	4.47919	
	42 1,1,1-Trichloroethane	97	3.739	3.740	(0.897)	10242	1.00000	0.859956(a)	
	43 2-Butanone	72	3.767	3.767	(0.903)	5763	5.00000	4.59056	
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	9289	1.00000	0.824536(a)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	6138	1.00000	0.847236(a)	
	46 Heptane	71	3.887	3.887	(0.932)	5903	1.00000	0.901887(aQ)	
	47 Benzene	78	3.941	3.942	(0.945)	31790	1.00000	0.918073(a)	
	48 Propionitrile	54	3.941	3.942	(0.945)	6433	5.00000	4.60203(Q)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	3144	1.00000	0.750289(aQM)	H
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	20603	1.00000	0.870331(a)	
	54 Isobutyl alcohol	42	3.980	3.980	(0.954)	1830	10.0000	12.5329(QM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	278313	30.0000	30.3035	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	10009	1.00000	0.919501(aQ)	
	53 tert-Amyl Alcohol	59	4.061	4.062	(0.974)	3778	5.00000	5.13106	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1104188	30.0000		
	56 Diisobutylene	57	4.170	4.171	(1.000)	50206	1.00000	0.910347(aQ)	
	57 Trichloroethene	95	4.269	4.269	(1.024)	7711	1.00000	0.879887(a)	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	12703	1.00000	0.929667(a)	
	59 tert-Amyl Ethylether	59	4.372	4.373	(1.048)	14413	1.00000	0.956612(a)	
	60 Dibromomethane	93	4.525	4.526	(1.085)	4615	1.00000	0.833015(a)	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	7377	1.00000	0.885179(a)	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	7191	1.00000	0.946015(a)	
	63 Methyl methacrylate	41	4.662	4.662	(1.118)	5964	1.00000	0.904227(aM)	IH
	64 1,4-Dioxane	88	4.722	4.722	(1.132)	2745	25.0000	21.2773(Q)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	3719	1.00000	0.975581(a)	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	10566	1.00000	1.01868	
	67 Octane	85	5.000	5.000	(0.810)	4330	1.00000	0.835760(a)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1006001	30.0000	30.1635	
	69 Toluene	92	5.153	5.153	(0.835)	19855	1.00000	0.939263(a)	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	2128	5.00000	4.03819(M)	H
	71 2-Nitropropane	41	5.300	5.300	(0.859)	7049	5.00000	4.88782(Q)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	649	5.00000	4.81139(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	29113	5.00000	4.48308	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	8929	1.00000	0.969277(a)	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	6888	1.00000	0.894846(a)	

Data File: 2524062504.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
76	Ethyl Methacrylate	69	5.480	5.481	(0.888)	8256	1.00000	0.959694(aM)	H
77	1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	6199	1.00000	0.954452(a)	
78	Chlorodibromomethane	129	5.649	5.650	(0.915)	5551	1.00000	0.966990(a)	
79	1,3-Dichloropropane	76	5.709	5.710	(0.925)	11310	1.00000	0.881368(a)	
80	1,2-Dibromoethane	107	5.829	5.830	(0.944)	6550	1.00000	0.988273(a)	
81	2-Hexanone	43	5.933	5.933	(0.961)	21128	5.00000	4.78219	
82	1-Chlorohexane	91	6.146	6.146	(0.996)	8250	1.00000	0.741857(aQM)	I
* 83	Chlorobenzene-d5	82	6.173	6.174	(1.000)	421251	30.0000		
84	Chlorobenzene	112	6.184	6.184	(1.002)	18599	1.00000	0.863383(a)	
85	Ethylbenzene	106	6.189	6.190	(1.003)	13774	1.00000	0.962259(aQ)	
86	1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	4988	1.00000	0.927321(aQ)	
87	mp-Xylene	106	6.288	6.288	(1.019)	36347	2.00000	1.65723	
88	o-Xylene	106	6.610	6.610	(1.071)	13278	1.00000	0.926224(a)	
89	Styrene	104	6.648	6.648	(0.836)	15866	1.00000	1.00647(M)	MP
90	Bromoform	173	6.686	6.686	(0.841)	3823	1.00000	0.967694(a)	
91	Isopropylbenzene	105	6.839	6.839	(0.860)	26101	1.00000	0.981453(a)	
M 100	1,2-Dichloroethene, Total	61				18636	2.00000	1.77905	
$ 92	4-Bromofluorobenzene	174	7.068	7.068	(0.889)	306032	30.0000	29.5640	
93	Bromobenzene	156	7.155	7.156	(0.900)	7998	1.00000	0.904064(a)	
94	n-Propylbenzene	120	7.155	7.156	(0.900)	7505	1.00000	0.829613(aQ)	
95	1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	7231	1.00000	0.822362(a)	
96	o-Chlorotoluene	91	7.292	7.292	(0.917)	21107	1.00000	0.886814(a)	
97	1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	22064	1.00000	0.876358(a)	
98	1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	2707	1.00000	0.954519(a)	
99	trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	1628	1.00000	0.890063(aM)	H
101	p-Chlorotoluene	91	7.417	7.418	(0.933)	18321	1.00000	0.849824(a)	
102	tert-Butylbenzene	134	7.559	7.559	(0.951)	4719	1.00000	0.783690(aQ)	
103	Pentachloroethane	117	7.581	7.581	(0.953)	4178	1.00000	0.978968(aM)	MP
104	1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	27718	1.00000	0.890516(a)	
105	sec-Butylbenzene	105	7.706	7.707	(0.969)	25418	1.00000	0.816857(a)	
106	p-Isopropyltoluene	134	7.815	7.816	(0.983)	5960	1.00000	0.836400(a)	
107	1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	13700	1.00000	0.919202(a)	
* 108	1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	374177	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	13912	1.00000	0.895502(aQM)	I
110	Benzyl Chloride	126	8.159	8.160	(1.026)	2620	1.00000	1.16660(Q)	
111	n-Butylbenzene	134	8.159	8.160	(1.026)	5626	1.00000	0.844859(aQ)	
112	Hexachloroethane	117	8.285	8.285	(1.042)	3087	1.00000	0.962691(aQM)	IH
113	1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	12858	1.00000	0.905673(a)	
114	1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	1191	1.00000	1.11644(Q)	
115	Nitrobenzene	77	9.463	9.464	(1.190)	3058	10.0000	6.30658	
116	Hexachlorobutadiene	225	9.523	9.524	(1.198)	2971	1.00000	0.880953(a)	
M 120	1,3-Dichloropropene, Total	75				19495	2.00000	1.98796	
117	1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	7990	1.00000	0.849831(a)	
M 121	Total Xylenes	106				49625	3.00000	2.58346	
118	Naphthalene	128	9.829	9.829	(1.236)	18088	1.00000	0.970581(a)	
119	1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	7150	1.00000	0.964947(a)	

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.



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Column phase: DB-VRX

Instrument: ms25,i
Operator: ILY
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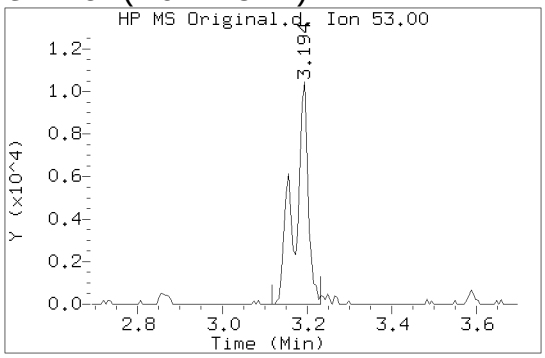
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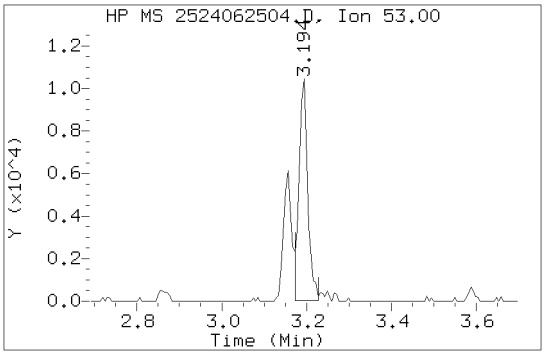
Acrylonitrile (107-13-1)

Reason Code: MP

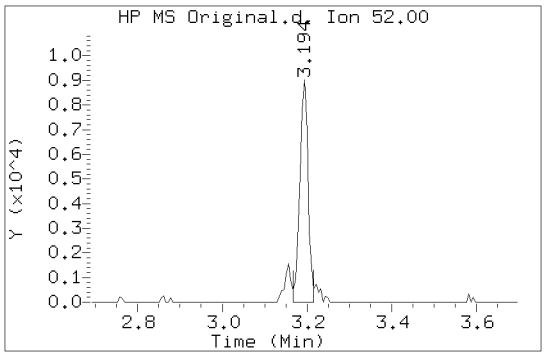
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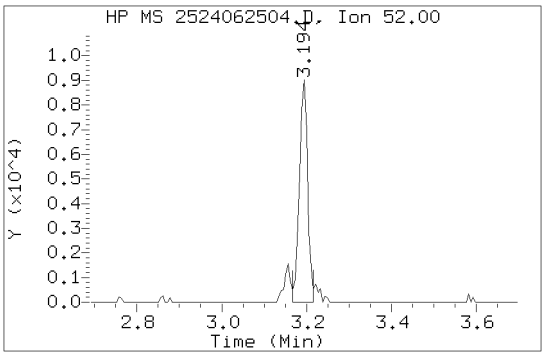
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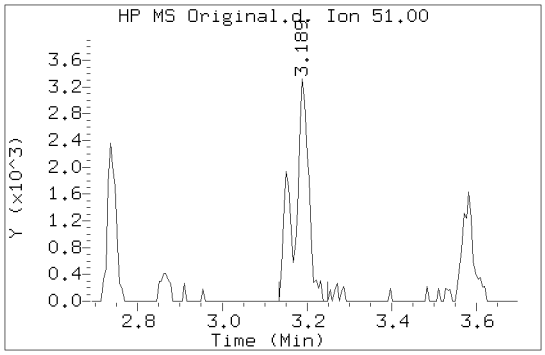
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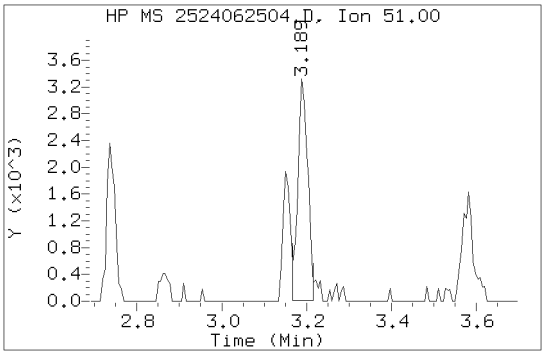
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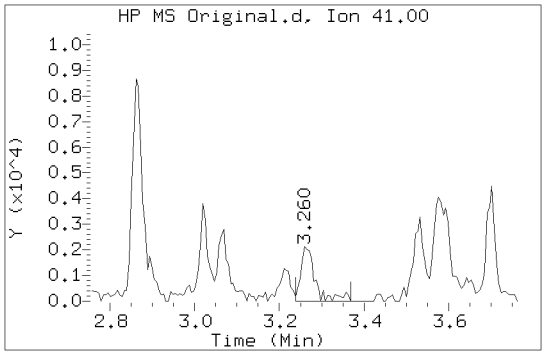
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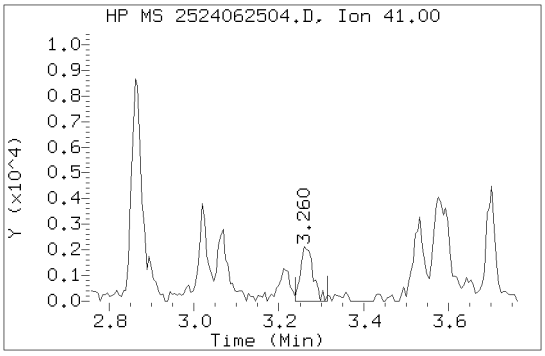
n-Propanol (71-23-8)

Reason Code: MP

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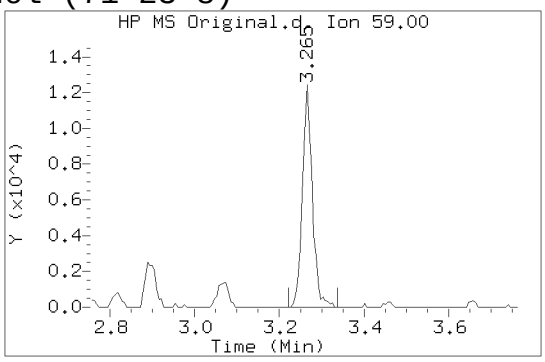


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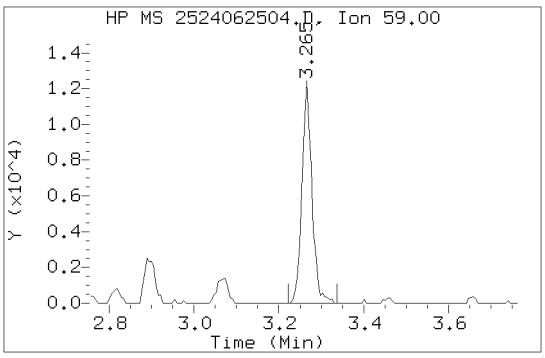
n-Propanol (71-23-8)

Reason Code: MP

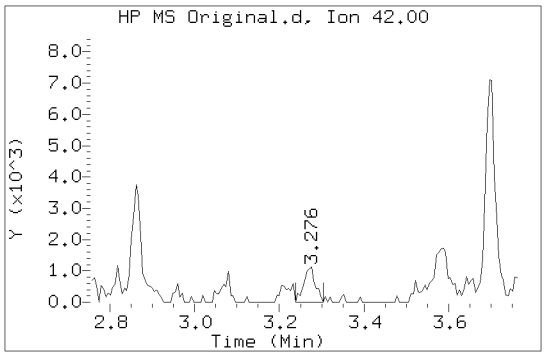
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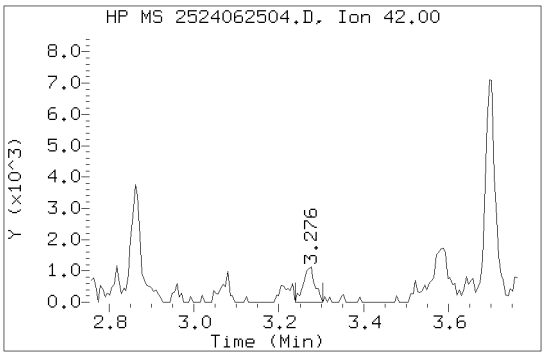
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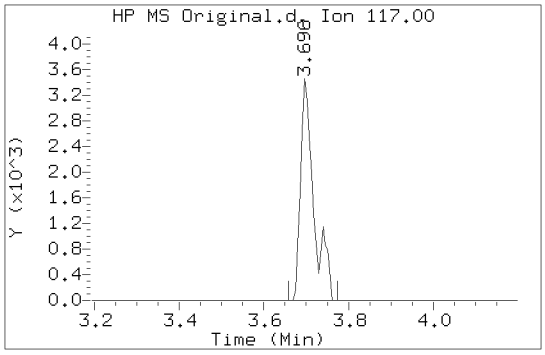
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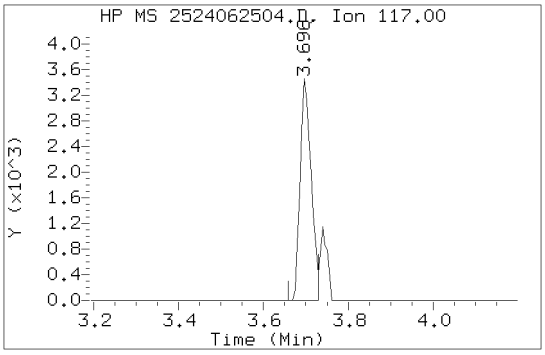
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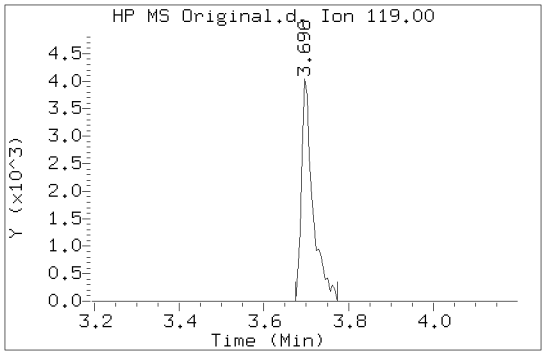
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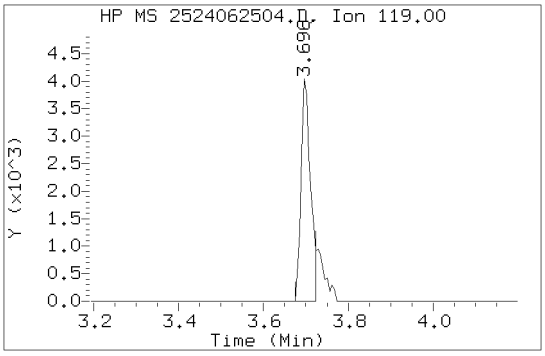
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BEFORE
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AFTER
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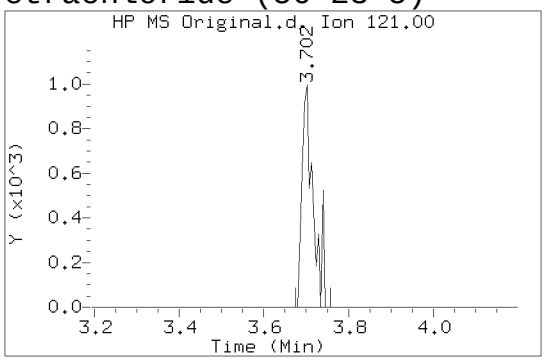


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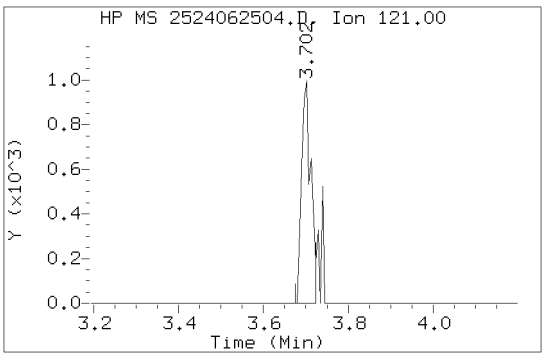
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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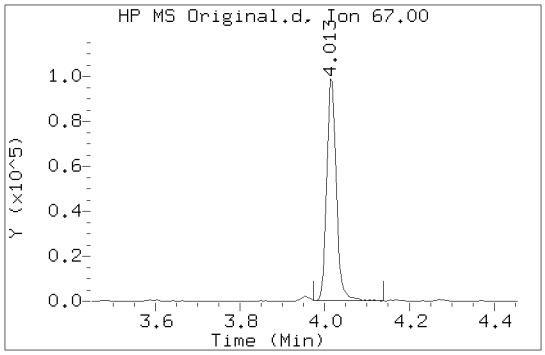
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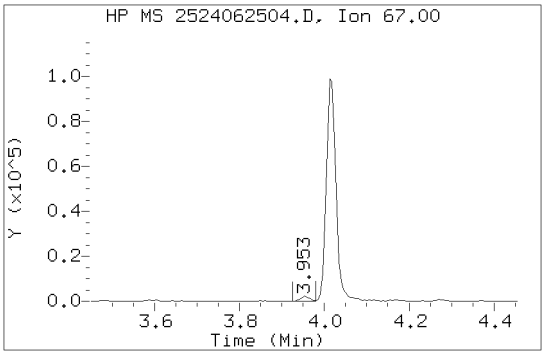
Methacrylonitrile (126-98-7)

Reason Code: H

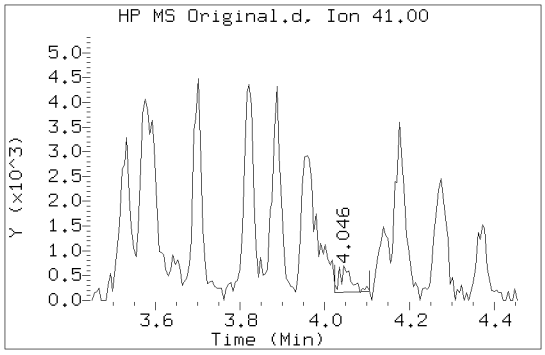
BEFORE
MASS
67
AREA
153991
HEIGHT
98720
25-Jun-2024
18:43



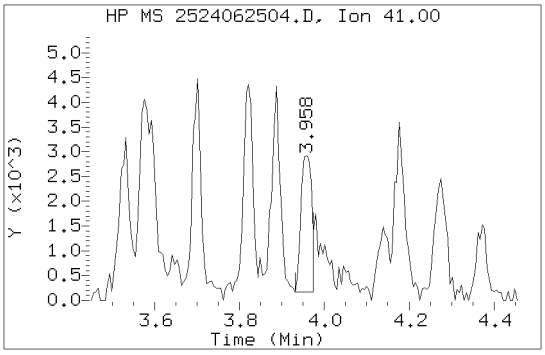
AFTER
MASS
67
AREA
3144
HEIGHT
2212
25-Jun-2024
19:31



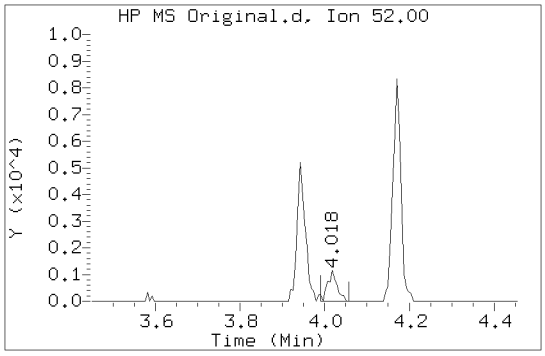
BEFORE
MASS
41
AREA
1015
HEIGHT
529
25-Jun-2024
18:43



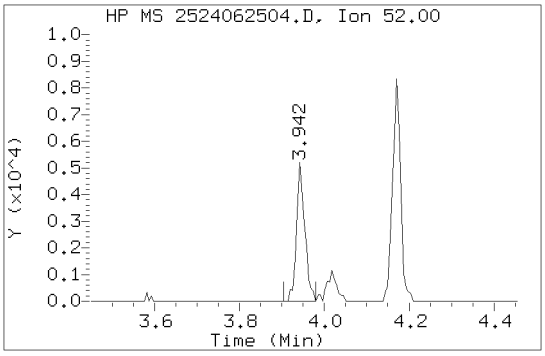
AFTER
MASS
41
AREA
4932
HEIGHT
2756
25-Jun-2024
19:31



BEFORE
MASS
52
AREA
1766
HEIGHT
1148
25-Jun-2024
18:43



AFTER
MASS
52
AREA
7144
HEIGHT
5200
25-Jun-2024
19:31

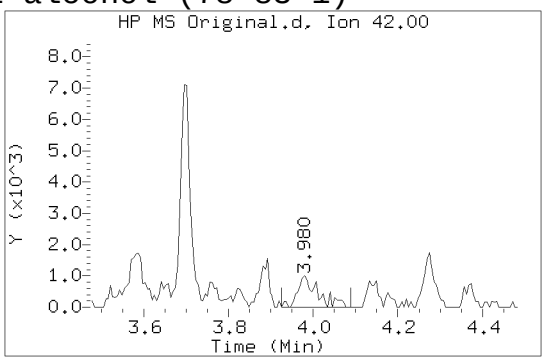


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

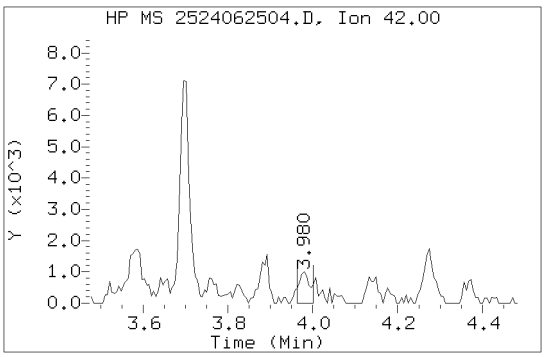
Isobutyl alcohol (78-83-1)

Reason Code: MP

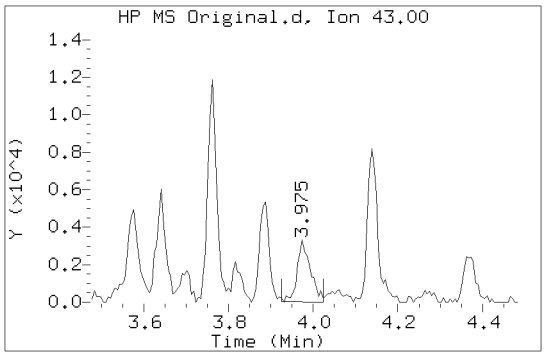
BEFORE
MASS
42
AREA
3324
HEIGHT
1001
25-Jun-2024
18:43



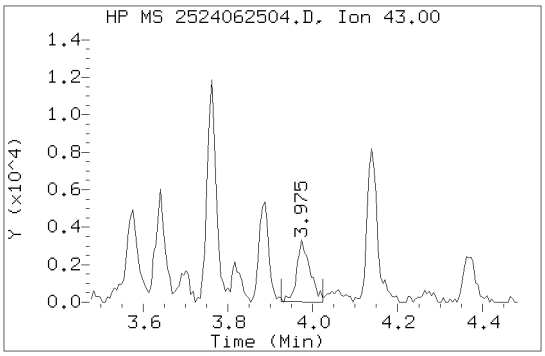
AFTER
MASS
42
AREA
1830
HEIGHT
1001
25-Jun-2024
19:31



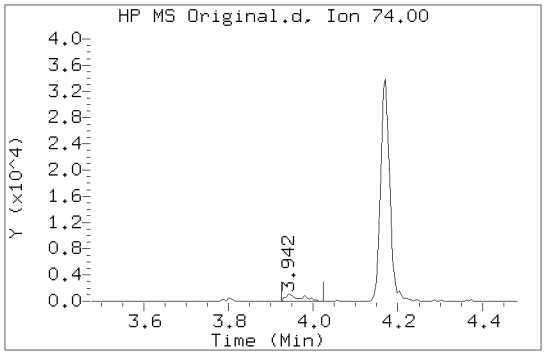
BEFORE
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
18:43



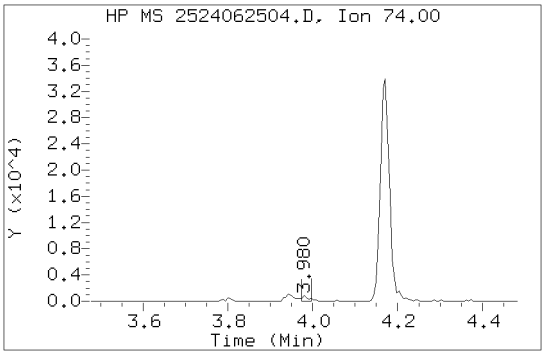
AFTER
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
2579
HEIGHT
1075
25-Jun-2024
18:43



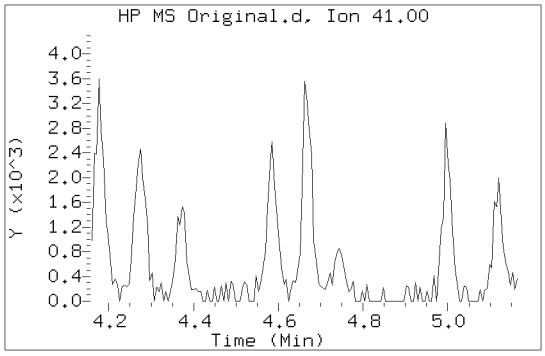
AFTER
MASS
74
AREA
806
HEIGHT
853
25-Jun-2024
19:31



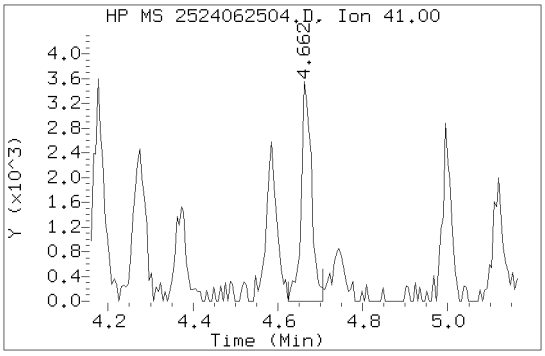
Methyl methacrylate (80-62-6)

Reason Code: IH

BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER
MASS
41
AREA
5964
HEIGHT
3556
25-Jun-2024
19:31

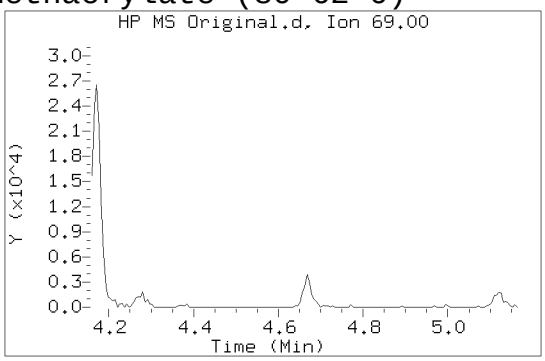


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InstruID : ms25.i
LabSampID : 1234

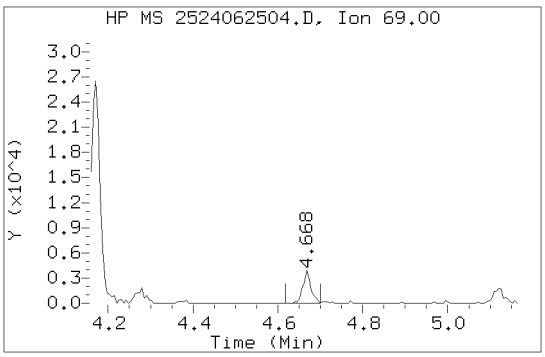
Methyl methacrylate (80-62-6)

Reason Code: IH

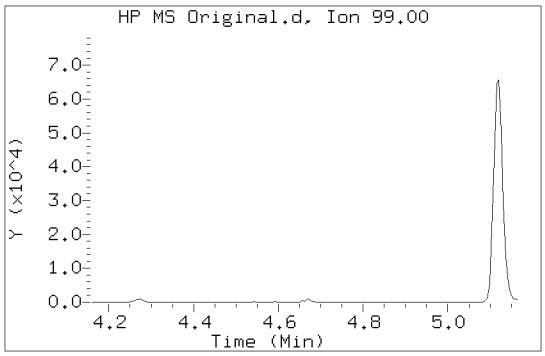
BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:43



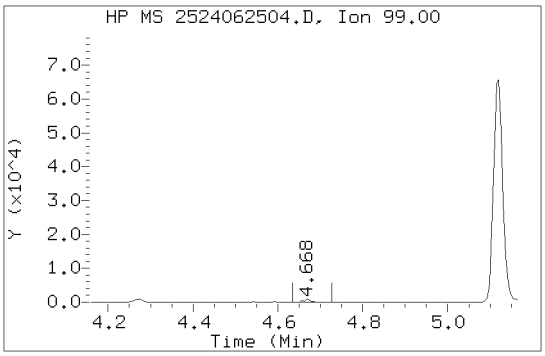
AFTER
MASS
69
AREA
5139
HEIGHT
3943
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:43



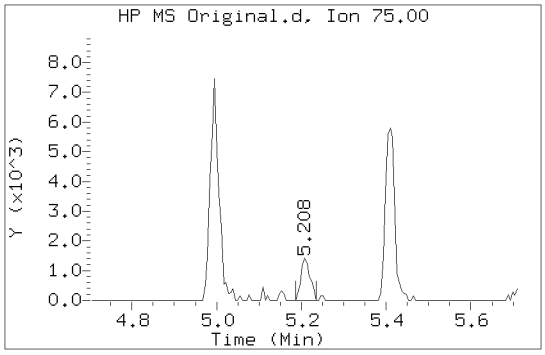
AFTER
MASS
99
AREA
946
HEIGHT
944
25-Jun-2024
19:31



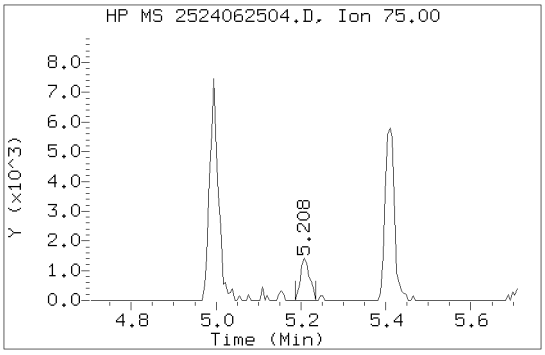
Chloroacetonitrile (107-14-2)

Reason Code: H

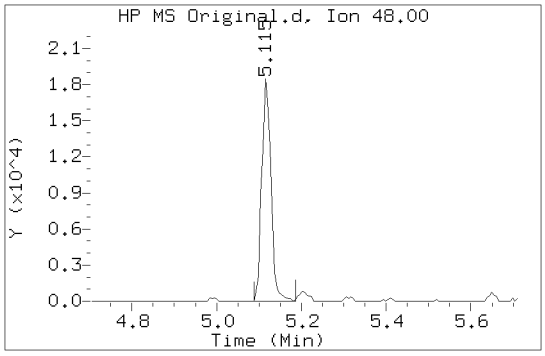
BEFORE
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
18:43



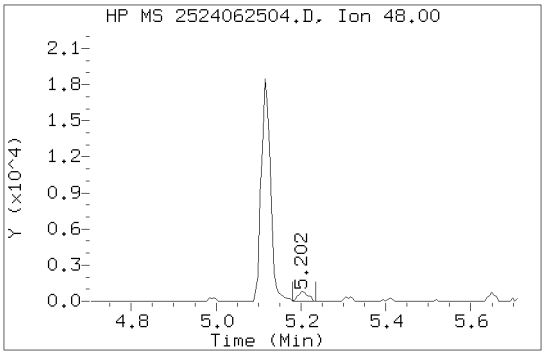
AFTER
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
19:31



BEFORE
MASS
48
AREA
28259
HEIGHT
18480
25-Jun-2024
18:43



AFTER
MASS
48
AREA
1300
HEIGHT
809
25-Jun-2024
19:31

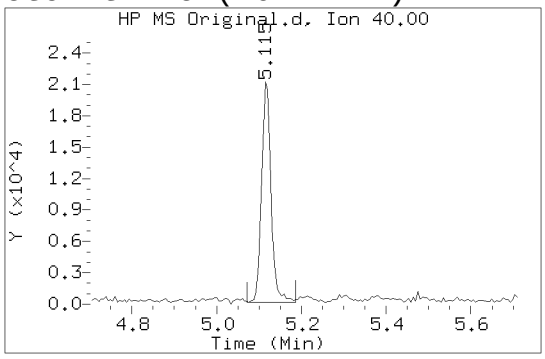


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LabSampID : 1234

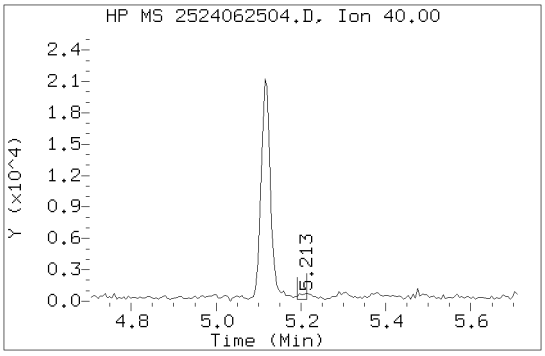
Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
32691
HEIGHT
21036
25-Jun-2024
18:43



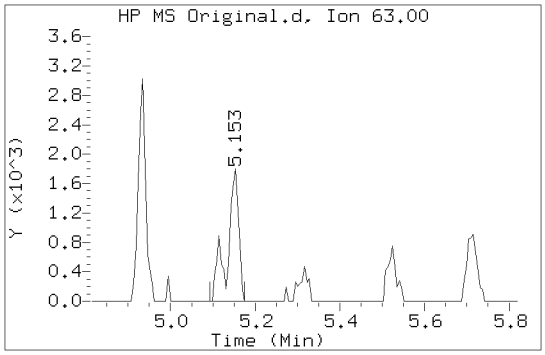
AFTER
MASS
40
AREA
731
HEIGHT
590
25-Jun-2024
19:31



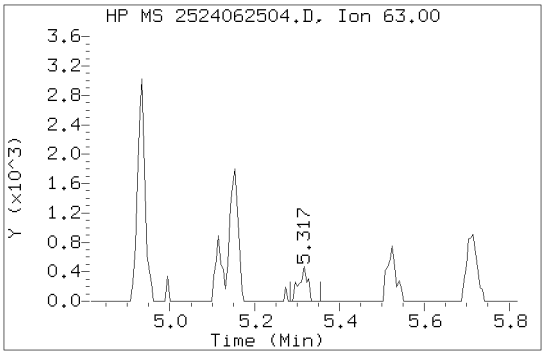
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

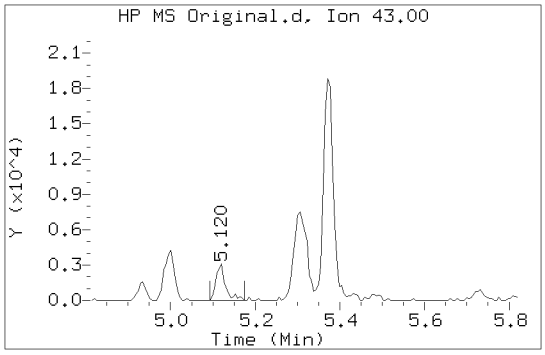
BEFORE
MASS
63
AREA
3388
HEIGHT
1803
25-Jun-2024
18:43



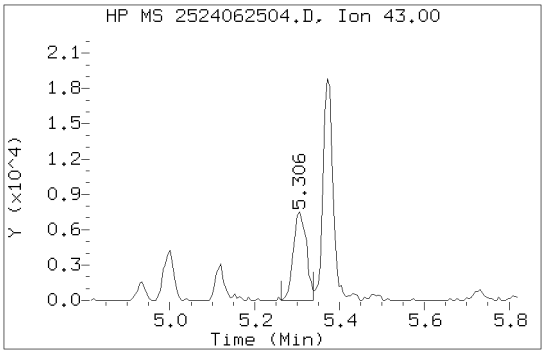
AFTER
MASS
63
AREA
649
HEIGHT
468
25-Jun-2024
19:31



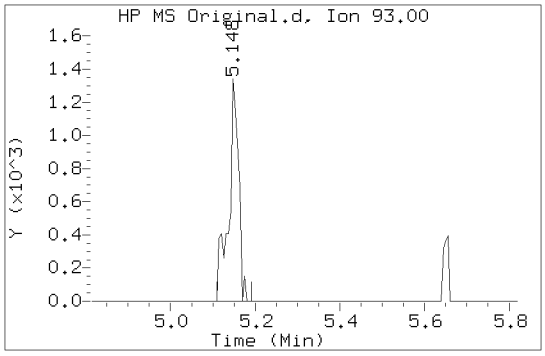
BEFORE
MASS
43
AREA
4716
HEIGHT
3124
25-Jun-2024
18:43



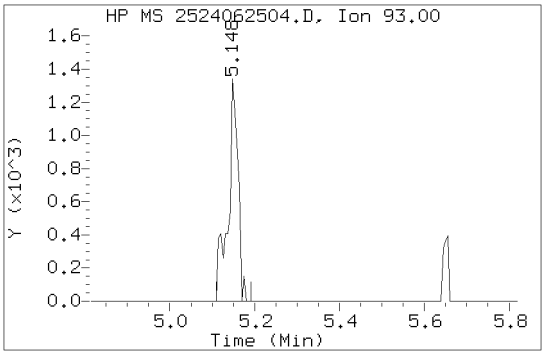
AFTER
MASS
43
AREA
16221
HEIGHT
7506
25-Jun-2024
19:31



BEFORE
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
18:43



AFTER
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
19:31

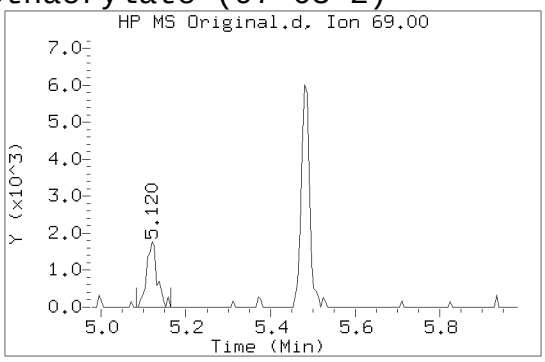


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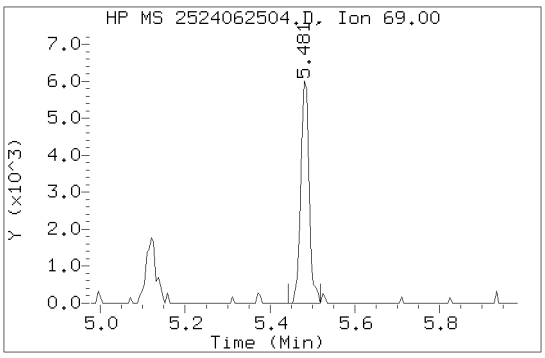
Ethyl Methacrylate (97-63-2)

Reason Code: H

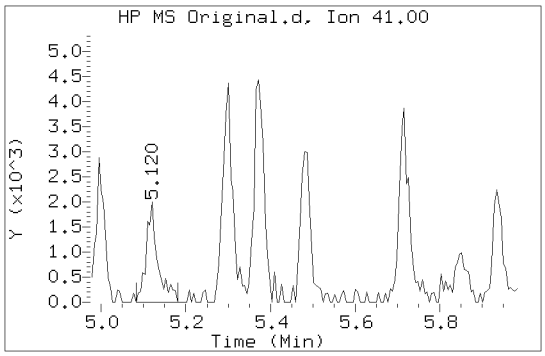
BEFORE
MASS
69
AREA
3115
HEIGHT
1778
25-Jun-2024
18:43



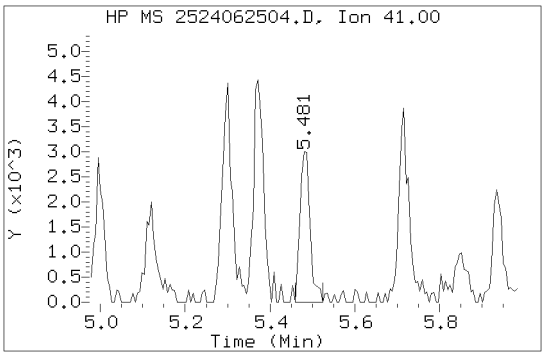
AFTER
MASS
69
AREA
8256
HEIGHT
6009
25-Jun-2024
19:31



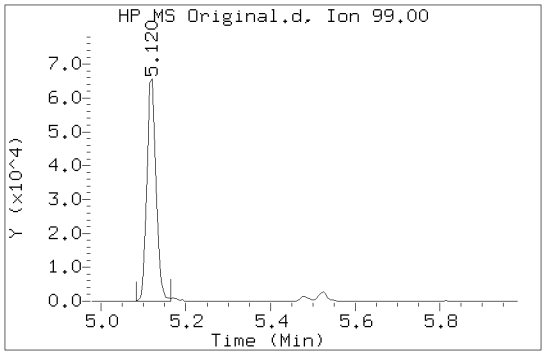
BEFORE
MASS
41
AREA
3826
HEIGHT
1996
25-Jun-2024
18:43



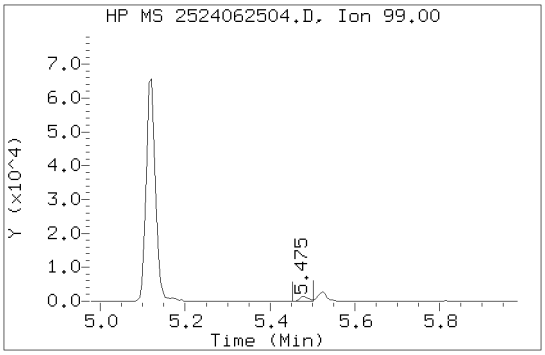
AFTER
MASS
41
AREA
4976
HEIGHT
2995
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
99831
HEIGHT
65624
25-Jun-2024
18:43



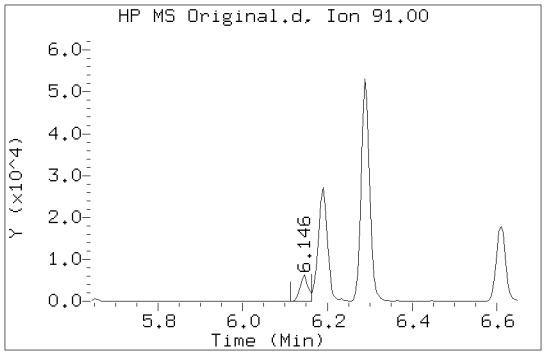
AFTER
MASS
99
AREA
1932
HEIGHT
1372
25-Jun-2024
19:31



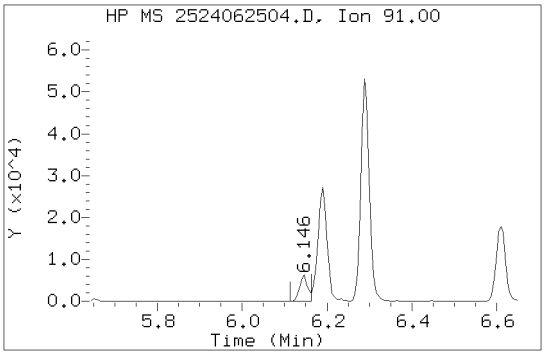
1-Chlorohexane (544-10-5)

Reason Code: I

BEFORE
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
18:43



AFTER
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
19:31

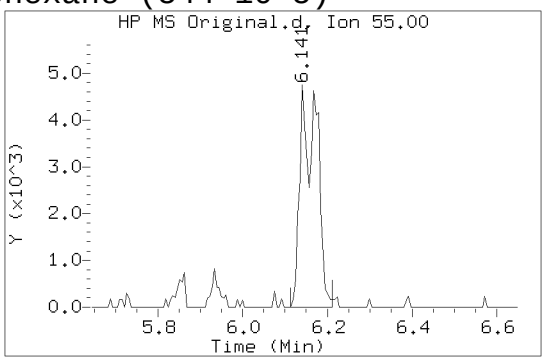


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LabSampID : 1234

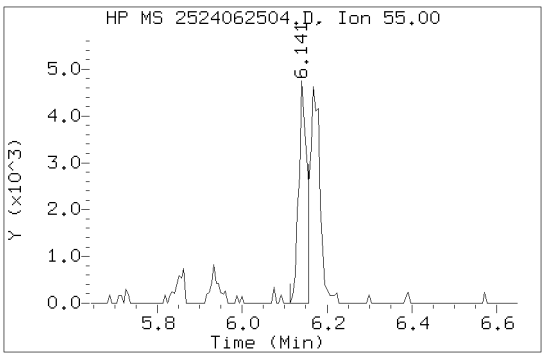
1-Chlorohexane (544-10-5)

Reason Code: I

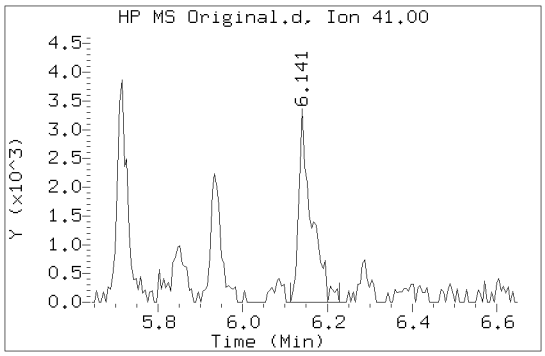
BEFORE
MASS
55
AREA
13140
HEIGHT
4749
25-Jun-2024
18:43



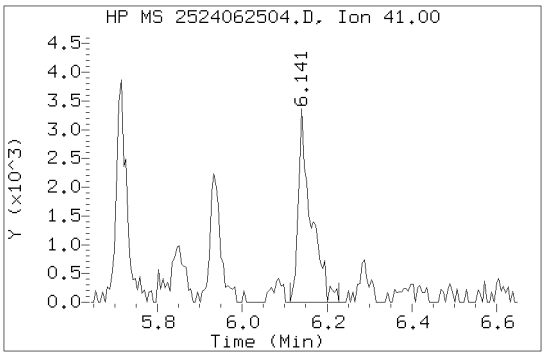
AFTER
MASS
55
AREA
6444
HEIGHT
4749
25-Jun-2024
19:31



BEFORE
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
18:43



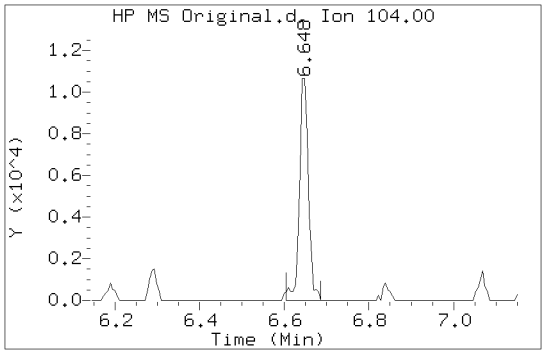
AFTER
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
19:31



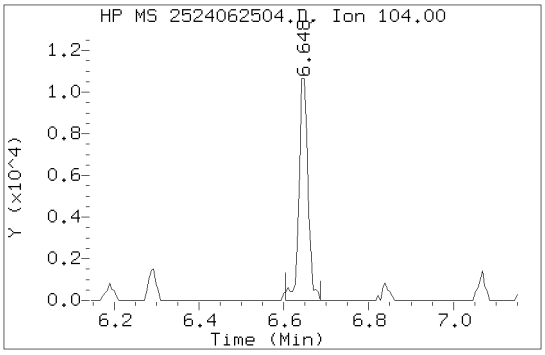
Styrene (100-42-5)

Reason Code: MP

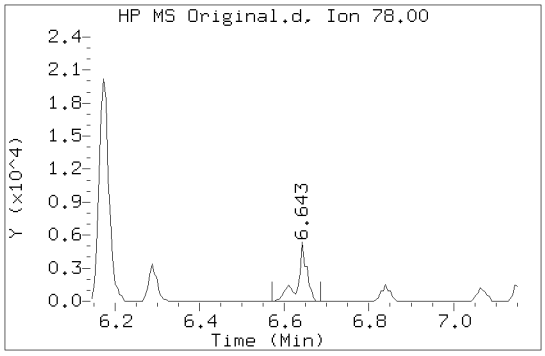
BEFORE
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
18:43



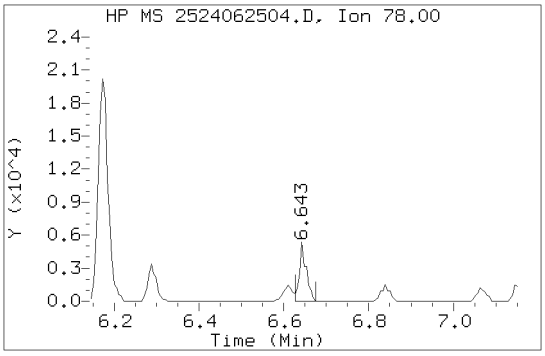
AFTER
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
8207
HEIGHT
5355
25-Jun-2024
18:43



AFTER
MASS
78
AREA
6144
HEIGHT
5355
25-Jun-2024
19:31

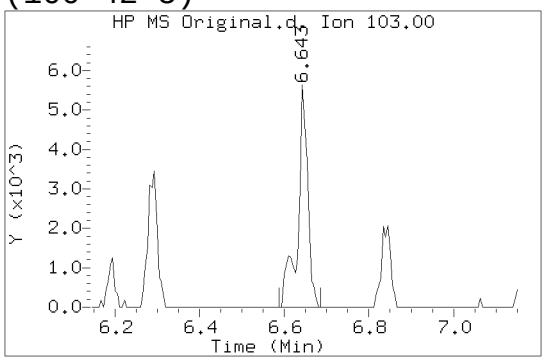


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

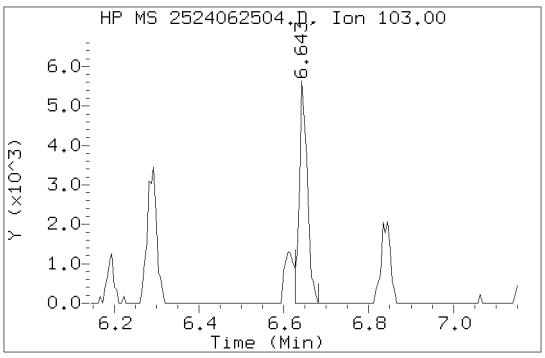
Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
103
AREA
9253
HEIGHT
5637
25-Jun-2024
18:43



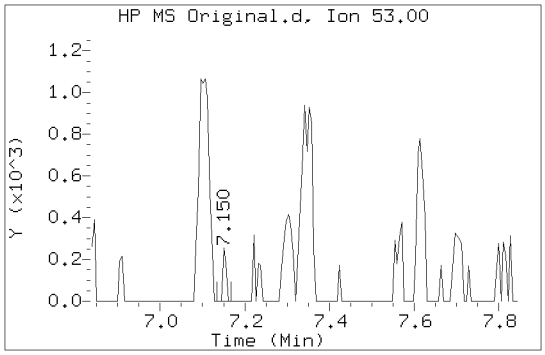
AFTER
MASS
103
AREA
7459
HEIGHT
5637
25-Jun-2024
19:31



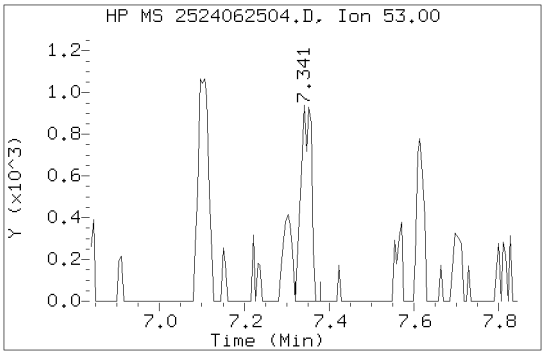
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

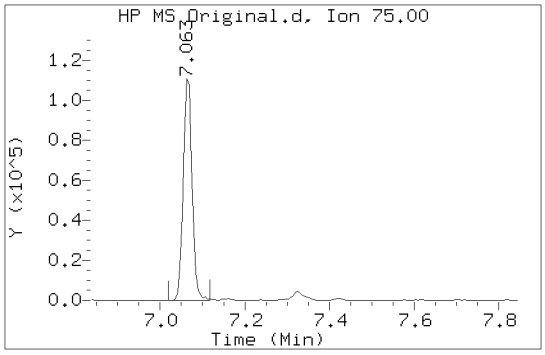
BEFORE
MASS
53
AREA
143
HEIGHT
257
25-Jun-2024
18:43



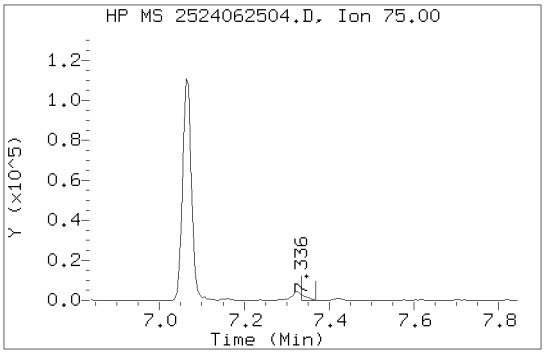
AFTER
MASS
53
AREA
1628
HEIGHT
940
25-Jun-2024
19:31



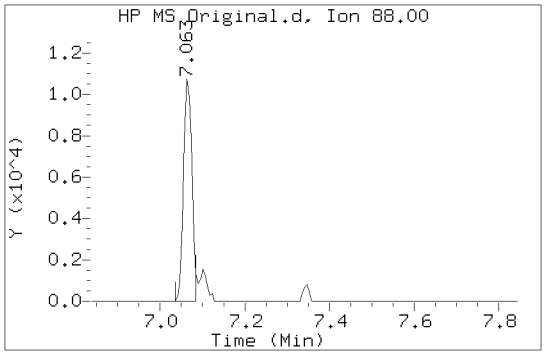
BEFORE
MASS
75
AREA
161091
HEIGHT
110816
25-Jun-2024
18:43



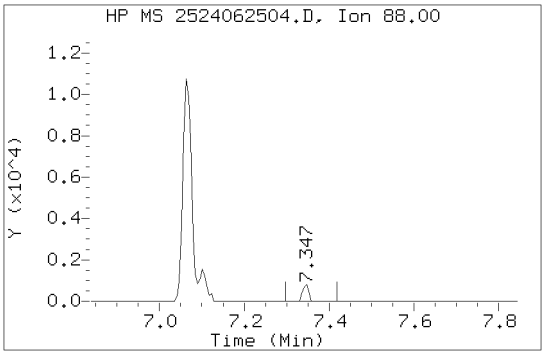
AFTER
MASS
75
AREA
2718
HEIGHT
2575
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
14925
HEIGHT
10745
25-Jun-2024
18:43



AFTER
MASS
88
AREA
769
HEIGHT
794
25-Jun-2024
19:31

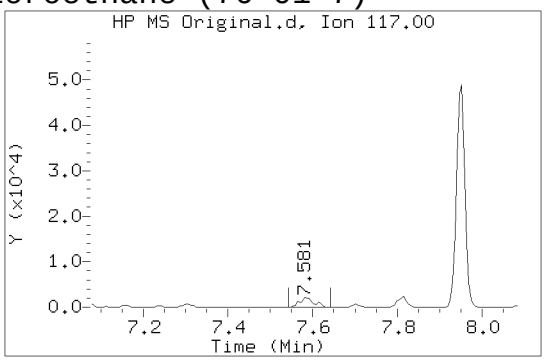


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LabSampID : 1234

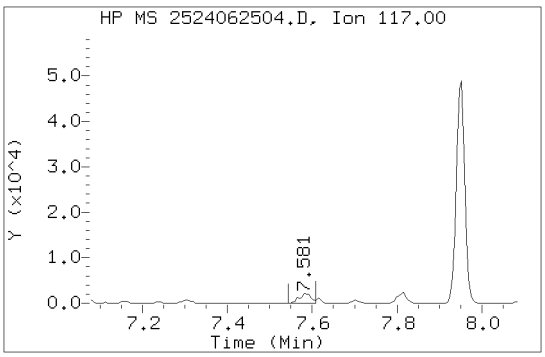
Pentachloroethane (76-01-7)

Reason Code: MP

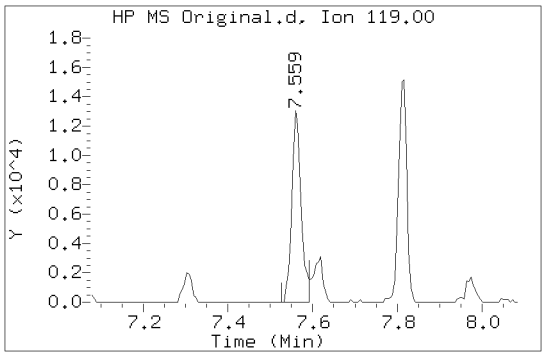
BEFORE
MASS
117
AREA
4937
HEIGHT
2162
25-Jun-2024
18:43



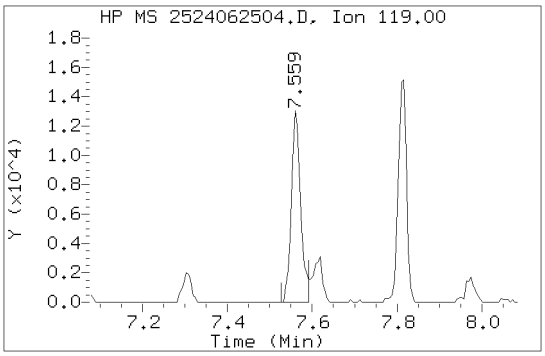
AFTER
MASS
117
AREA
4178
HEIGHT
2162
25-Jun-2024
19:31



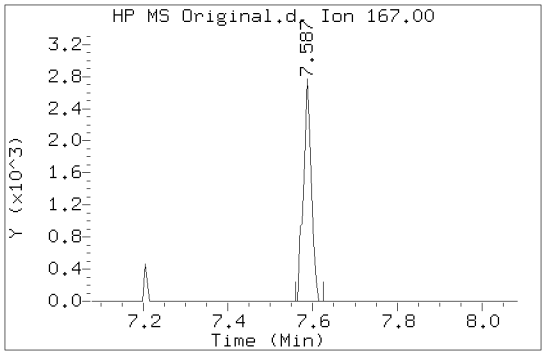
BEFORE
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
18:43



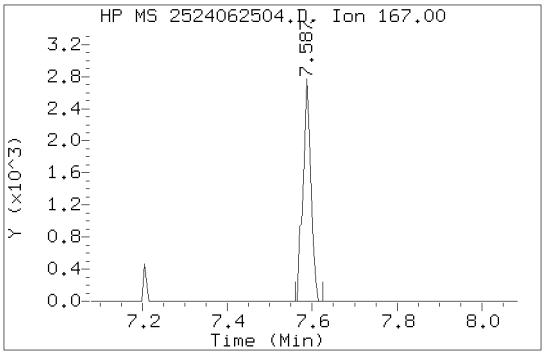
AFTER
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
19:31



BEFORE
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
18:43



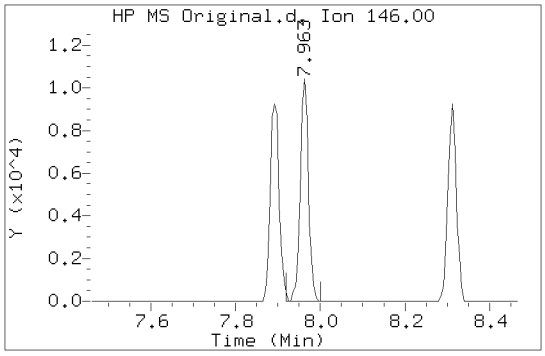
AFTER
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
19:31



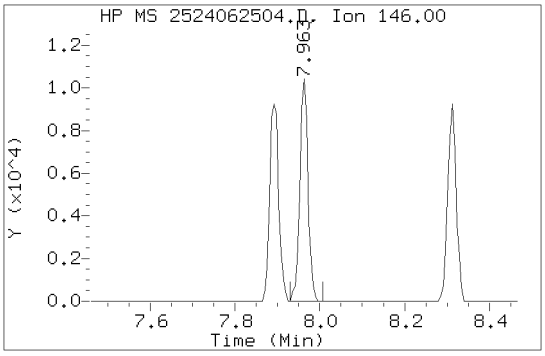
1,4-Dichlorobenzene (106-46-7)

Reason Code: I

BEFORE
MASS
146
AREA
14053
HEIGHT
10421
25-Jun-2024
18:43



AFTER
MASS
146
AREA
13912
HEIGHT
10421
25-Jun-2024
19:31

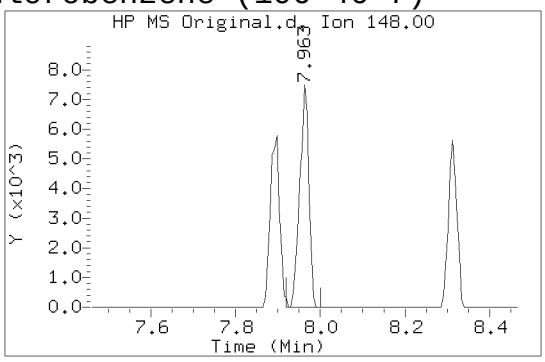


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InstruID : ms25.i
LabSampID : 1234

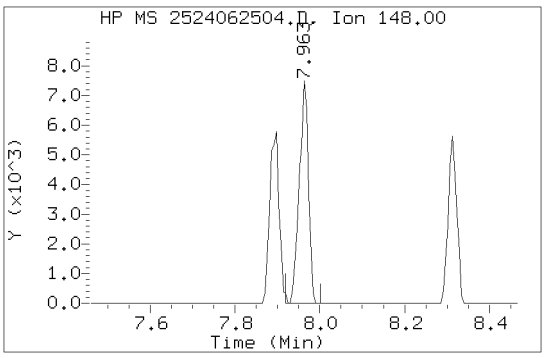
1,4-Dichlorobenzene (106-46-7)

Reason Code: I

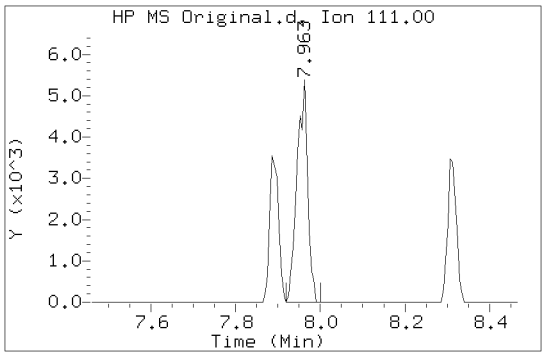
BEFORE
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
18:43



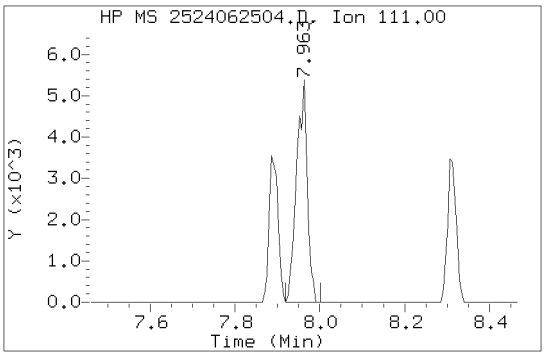
AFTER
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
19:31



BEFORE
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
18:43



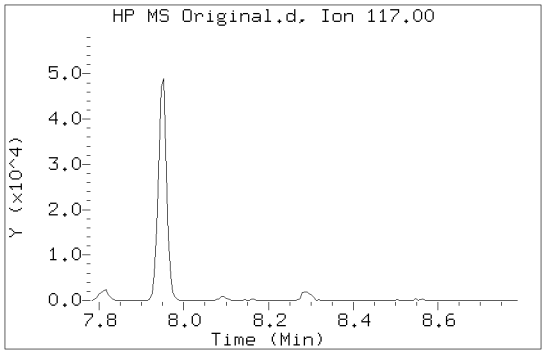
AFTER
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
19:31



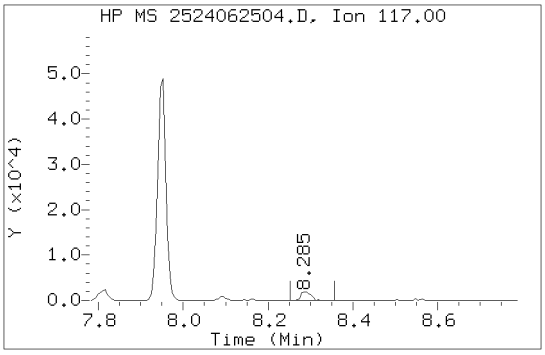
Hexachloroethane (67-72-1)

Reason Code: IH

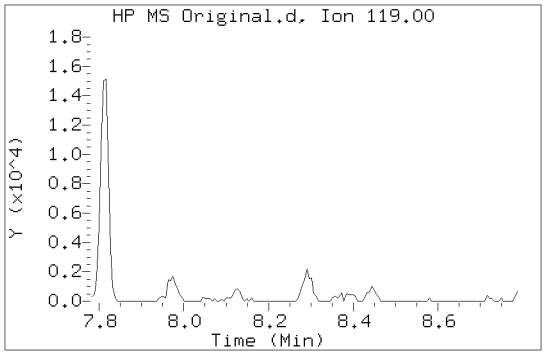
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:43



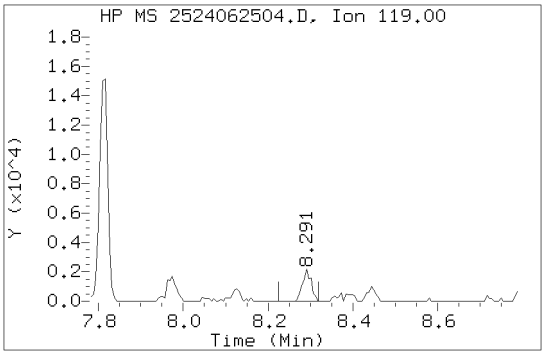
AFTER
MASS
117
AREA
3087
HEIGHT
1807
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER
MASS
119
AREA
3118
HEIGHT
2195
25-Jun-2024
19:31



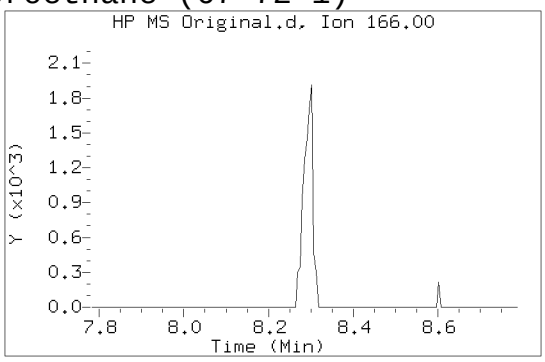
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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

Hexachloroethane (67-72-1)

Reason Code: IH

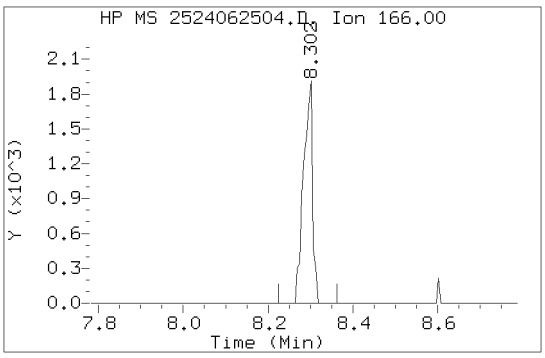
BEFORE

MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER

MASS
166
AREA
2843
HEIGHT
1913
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:23
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062505.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062505.D
Lab Smp Id: 1235
Inj Date : 25-JUN-2024 11:44
Operator : ILY Inst ID: ms25.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	59688	5.00000	4.96098	
2 Chloromethane	50	1.644	1.645	(0.394)	52986	5.00000	4.93802	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	67532	5.00000	4.96514	
4 Bromomethane	94	1.923	1.923	(0.461)	37472	5.00000	5.36670	
5 Chloroethane	64	2.004	2.005	(0.481)	49249	5.00000	5.08571	
6 Pentane	41	2.092	2.092	(0.502)	50203	5.00000	4.98935	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	94521	5.00000	5.07354	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	91911	5.00000	5.33176	
9 Ethyl Ether	74	2.277	2.278	(0.546)	26048	5.00000	4.96900	
10 1,1-Dichloroethene	61	2.414	2.409	(0.579)	53755	5.00000	5.13888	
11 Freon 113	101	2.424	2.425	(0.581)	39179	5.00000	5.32509	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	109252	5.00000	4.84162	
13 Iodomethane	127	2.512	2.507	(0.602)	12856	5.00000	3.64919	
14 Acrolein	56	2.599	2.600	(0.623)	41537	25.0000	24.6179	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	13242	25.0000	21.1377	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	45996	5.00000	5.20289	
17 Methylene Chloride	84	2.741	2.741	(0.657)	44601	5.00000	5.21982	
18 Acetone	58	2.757	2.752	(0.661)	22973	25.0000	24.2671	
19 Methyl acetate	74	2.817	2.812	(0.676)	9079	5.00000	4.28588(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	52215	5.00000	5.09647	
21 Hexane	57	2.861	2.867	(0.686)	86426	5.00000	4.80758	

Data File: 2524062505.D
Report Date: 25-Jun-2024 19:32

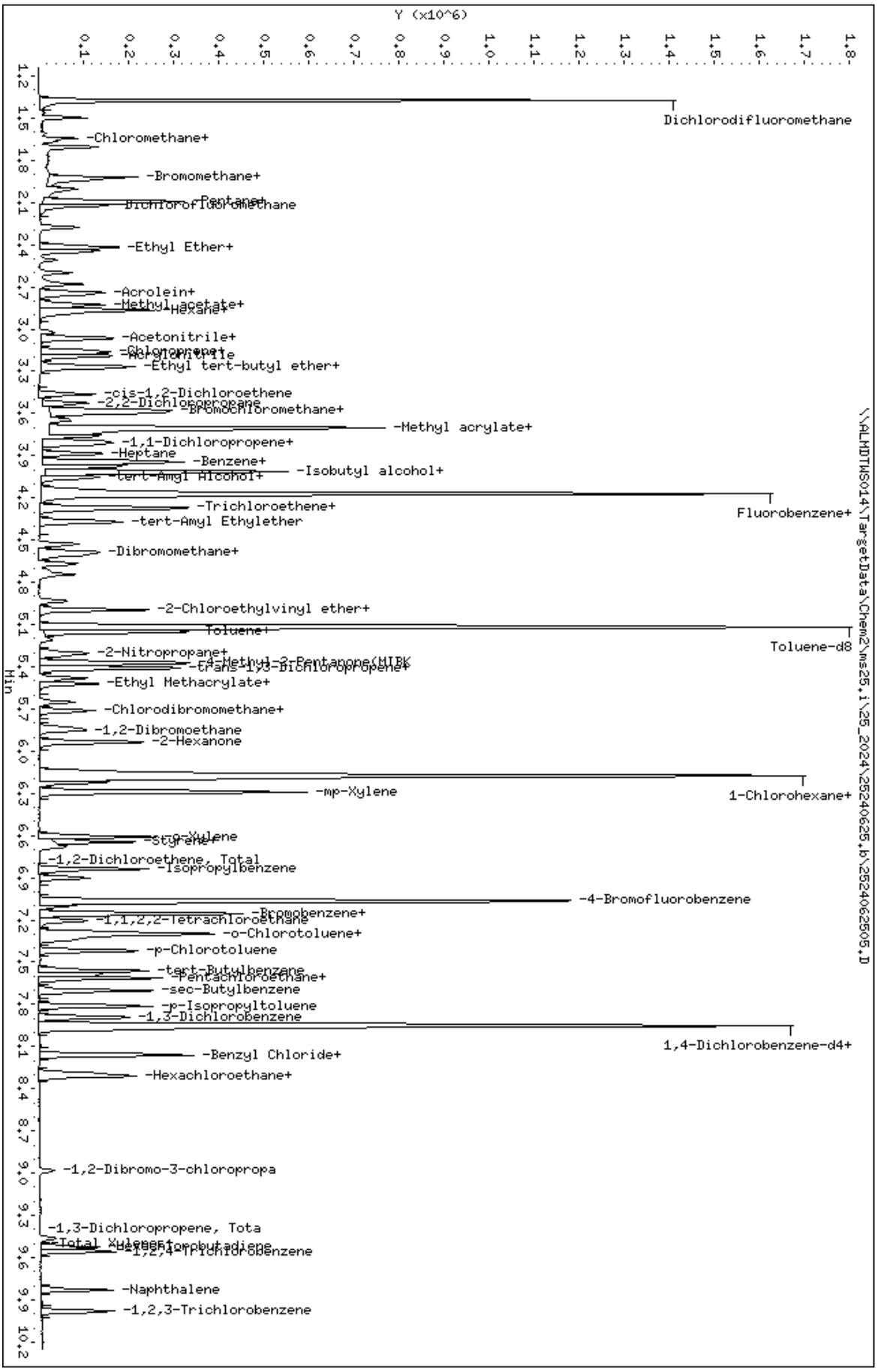
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	120315	5.00000	4.78736	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	21867	25.0000	23.1385	
	24 Acetonitrile	41	3.025	3.020	(0.725)	27036	25.0000	25.5395	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	116696	5.00000	5.13219	
	26 Chloroprene	53	3.156	3.156	(0.757)	56434	5.00000	4.89543	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	73188	5.00000	5.24341	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	92982	25.0000	25.5783(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	120519	5.00000	4.99047	
	30 n-Propanol	41	3.265	3.260	(0.783)	21478	50.0000	47.9463(Q)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	9677	5.00000	4.41305	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	53300	5.00000	5.13080	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	56064	5.00000	5.03959(M)	I
	34 Bromochloromethane	128	3.576	3.576	(0.857)	23110	5.00000	5.15866	
	35 Cyclohexane	84	3.587	3.587	(0.860)	62260	5.00000	4.99491	
	36 Chloroform	83	3.603	3.598	(0.864)	77923	5.00000	5.17135	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	42053	5.00000	4.57672	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	40449	5.00000	4.83542	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	45979	5.00000	4.53007(M)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	264311	30.0000	30.8069	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	61844	25.0000	24.1831	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	58962	5.00000	5.02729	
	43 2-Butanone	72	3.761	3.767	(0.902)	30643	25.0000	24.7867(M)	MP
	44 1,1-Dichloropropene	75	3.800	3.800	(0.911)	57187	5.00000	5.15476	
	45 1-Chlorobutane	41	3.816	3.822	(0.915)	35980	5.00000	5.04323(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	33214	5.00000	5.15312	
	47 Benzene	78	3.941	3.942	(0.945)	171818	5.00000	5.03878	
	48 Propionitrile	54	3.941	3.942	(0.945)	33201	25.0000	24.1189(M)	I
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	19135	5.00000	4.63708(Q)	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	112448	5.00000	4.82365	
	54 Isobutyl alcohol	42	3.985	3.980	(0.956)	7621	50.0000	40.0273(M)	MP
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	286783	30.0000	31.7090(M)	MP
	52 1,2-Dichloroethane	62	4.051	4.056	(0.971)	53935	5.00000	5.03156(M)	I
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	15711	25.0000	21.6680	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1087359	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	125872	5.00000	4.65034	
	57 Trichloroethene	95	4.269	4.269	(1.024)	41892	5.00000	4.85420	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	69627	5.00000	5.02555	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	87789	5.00000	4.55944	
	60 Dibromomethane	93	4.525	4.526	(1.085)	26239	5.00000	4.80949	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	40983	5.00000	4.99373	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	47880	5.00000	4.49673	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	31161	5.00000	4.79757(M)	I
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	16306	125.000	128.349	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	23423	5.00000	4.24126	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	57636	5.00000	4.24765	
	67 Octane	85	5.000	5.000	(0.810)	25331	5.00000	4.82204	
$	68 Toluene-d8	98	5.115	5.120	(0.829)	1052255	30.0000	31.1164	
	69 Toluene	92	5.153	5.153	(0.835)	103607	5.00000	4.83383	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	11858	25.0000	22.1928	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	42330	25.0000	19.7446	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	4269	25.0000	20.5794(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	187763	25.0000	23.1030	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	54063	5.00000	4.31303	
	74 Tetrachloroethene	164	5.415	5.410	(0.877)	39410	5.00000	5.04948	

Data File: 2524062505.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.486	5.481	(0.889)	51147	5.00000	4.24986	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	33140	5.00000	5.03234	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	36996	5.00000	4.30237	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	64110	5.00000	4.92726	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	39025	5.00000	4.66538	
	81 2-Hexanone	43	5.933	5.933	(0.961)	125367	25.0000	22.6028	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	57356	5.00000	5.08663	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	427126	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	109743	5.00000	5.02430	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	58271	5.00000	4.44077	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	34773	5.00000	4.50754	
	87 mp-Xylene	106	6.288	6.288	(1.019)	154227	10.0000	9.45903	
	88 o-Xylene	106	6.610	6.610	(1.071)	65518	5.00000	4.50743	
	89 Styrene	104	6.648	6.648	(0.836)	91709	5.00000	4.30376(M)	MP
	90 Bromoform	173	6.681	6.686	(0.840)	22861	5.00000	3.89465	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	150199	5.00000	4.86385	
M	100 1,2-Dichloroethene, Total	61				105515	10.0000	10.2273	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	325457	30.0000	30.6043	
	93 Bromobenzene	156	7.155	7.156	(0.900)	45273	5.00000	4.98138	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	44738	5.00000	4.81386	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	44390	5.00000	4.91408	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	121483	5.00000	4.96837	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	125150	5.00000	4.83861	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	14852	5.00000	5.09769	
	99 trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	11562	5.00000	4.43705(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	111173	5.00000	5.01963	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	32108	5.00000	5.19039	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	25931	5.00000	4.44207(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	132392	5.00000	4.69630(M)	I
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	163354	5.00000	5.11007	
	106 p-Isopropyltoluene	134	7.810	7.816	(0.982)	37381	5.00000	5.10636	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	77113	5.00000	5.03629	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	384401	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	77858	5.00000	4.87835	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	12513	5.00000	3.70991(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	31794	5.00000	4.64753(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	20694	5.00000	4.13218	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	71870	5.00000	4.92763	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	6452	5.00000	4.11789	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	15593	50.0000	31.0878	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	21249	5.00000	4.63313	
M	120 1,3-Dichloropropene, Total	75				111699	10.0000	8.56068	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	44395	5.00000	4.59634	
M	121 Total Xylenes	106				219745	15.0000	13.9665	
	118 Naphthalene	128	9.829	9.829	(1.236)	109460	5.00000	4.15104	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	45198	5.00000	4.43252	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

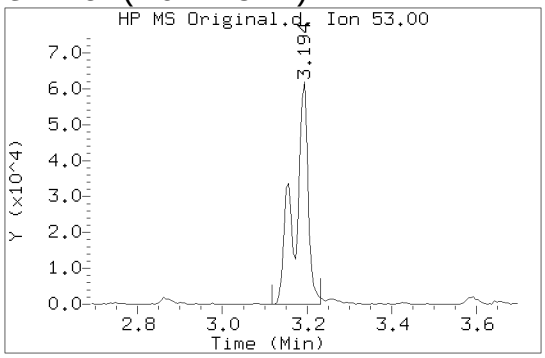

Y (x10^6)
Min
Dichlorodifluoromethane
-Chloromethane+
-Bromomethane+
Dichlorofluoromethane
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-Isobutyl alcohol+
-tert-Amyl Alcohol+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
Toluene+
Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate+
-Chlorodibromomethane+
-1,2-Dibromoethane
-2-Hexanone
-mp-Xylene
1-Chlorohexane+
-o-Xylene
-Styrene+
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-Pentachloroethane+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
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-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Operator: ILY
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Page 1

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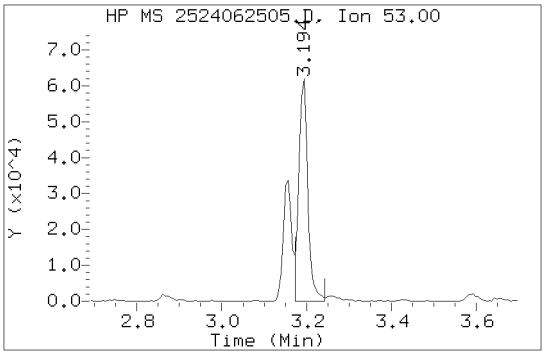
Acrylonitrile (107-13-1)

Reason Code: MP

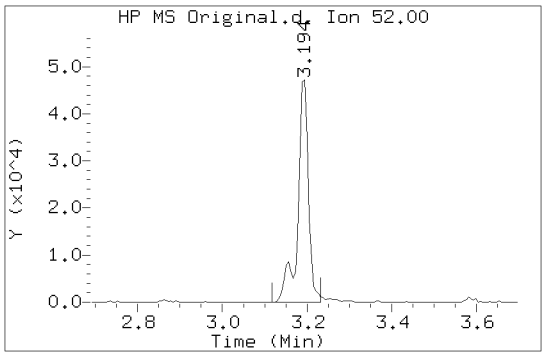
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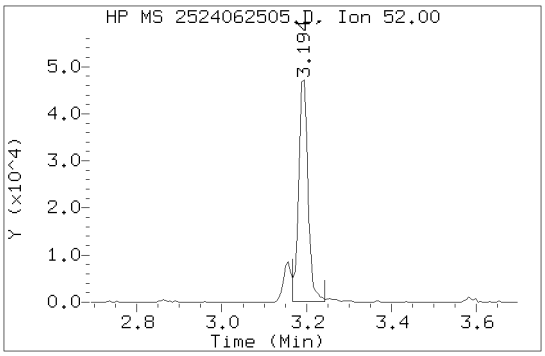
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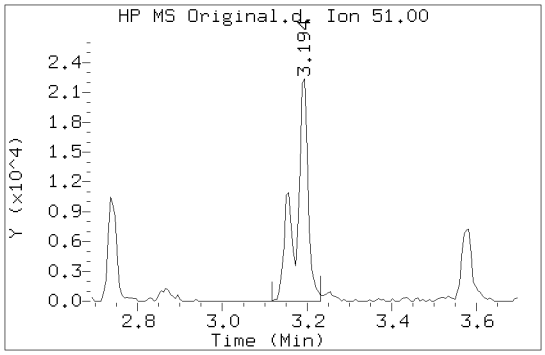
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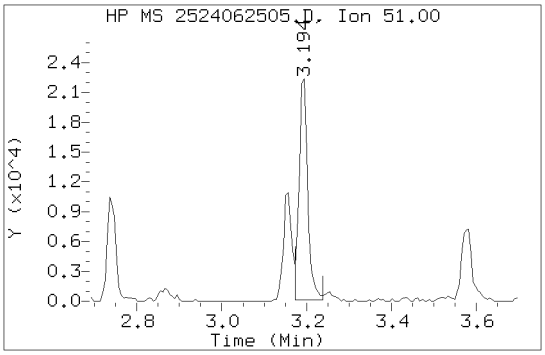
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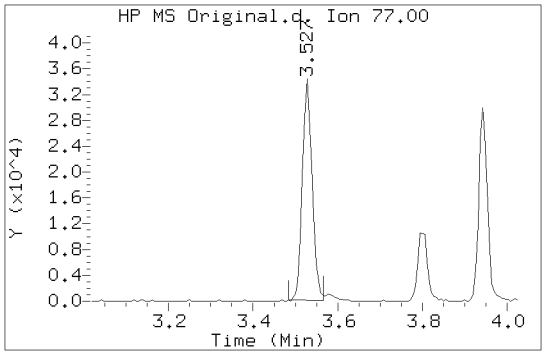
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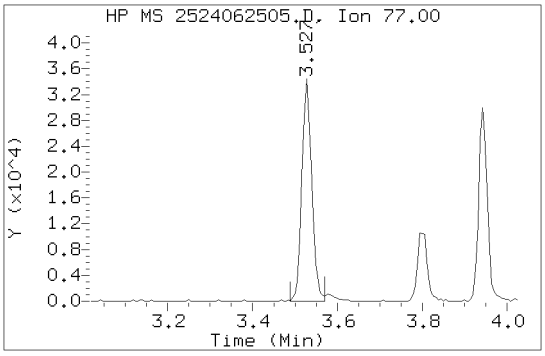
2,2-Dichloropropane (594-20-7)

Reason Code: I

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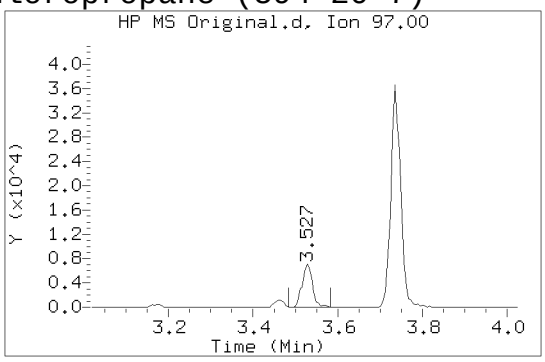


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LabSampID : 1235

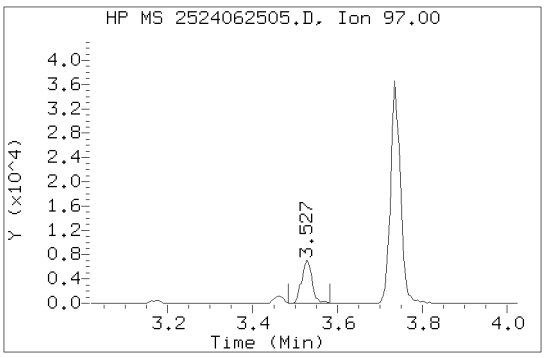
2,2-Dichloropropane (594-20-7)

Reason Code: I

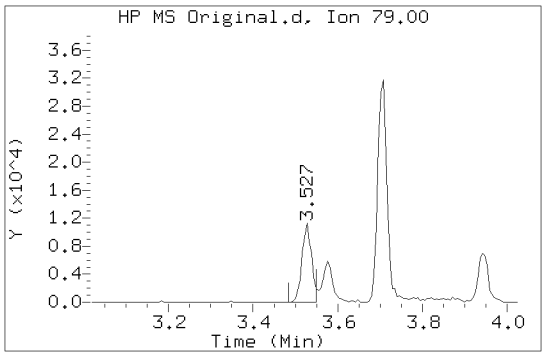
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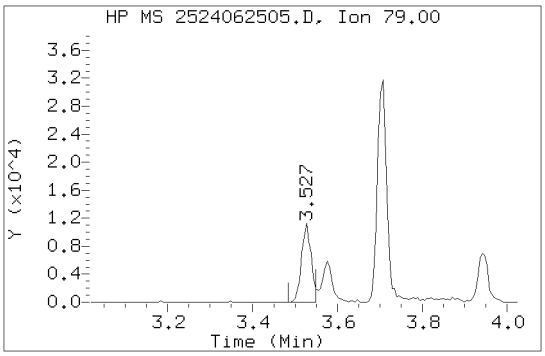
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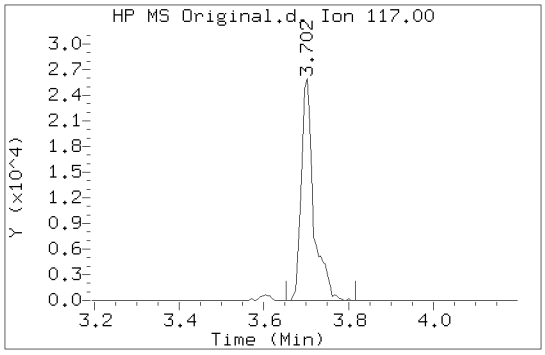
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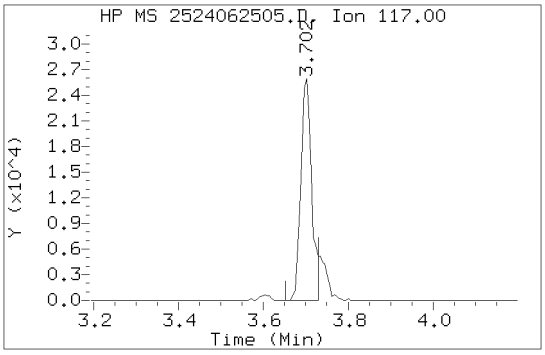
Carbon Tetrachloride (56-23-5)

Reason Code: MP

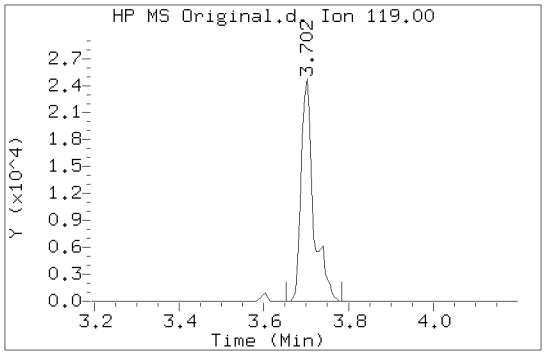
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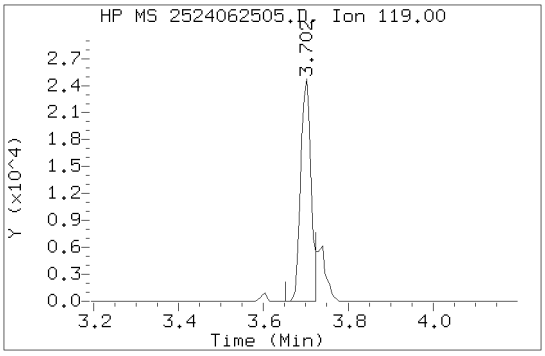
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BEFORE
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AFTER
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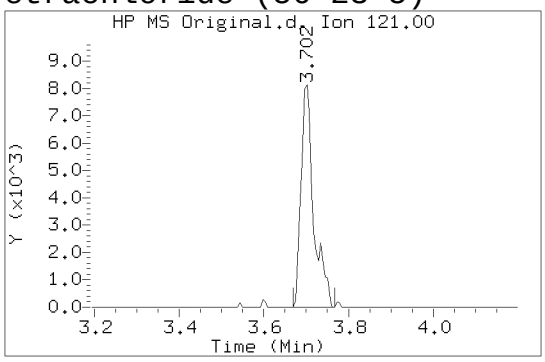
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LabSampID : 1235

Carbon Tetrachloride (56-23-5)

Reason Code: MP

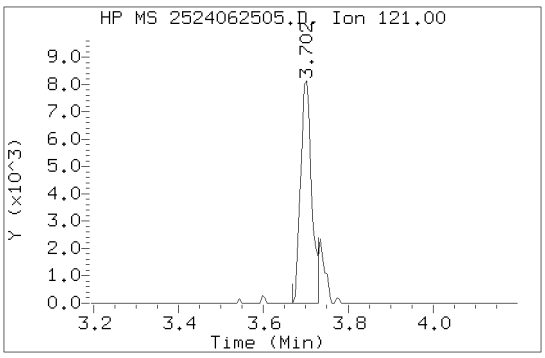
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AFTER

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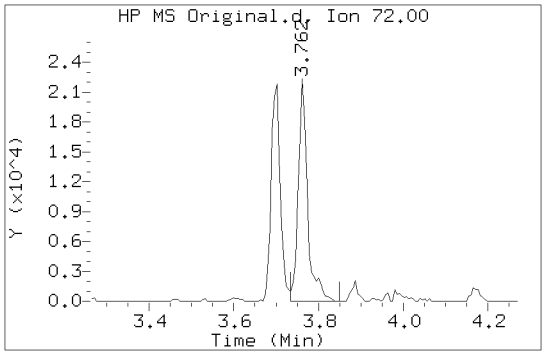


2-Butanone (78-93-3)

Reason Code: MP

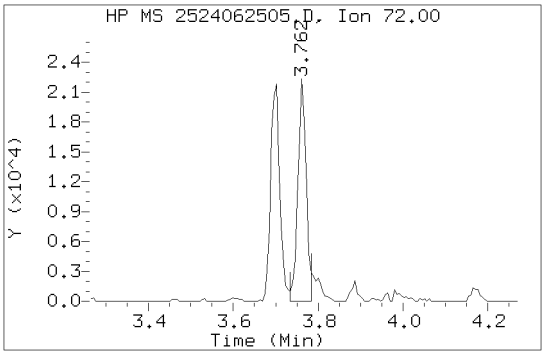
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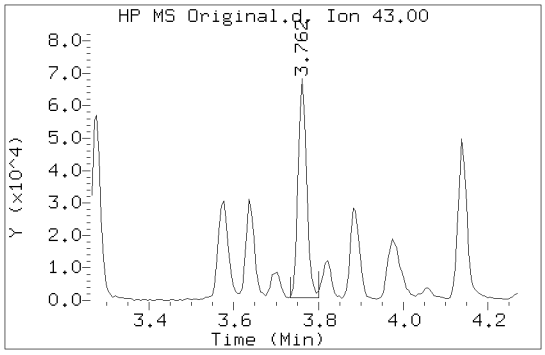
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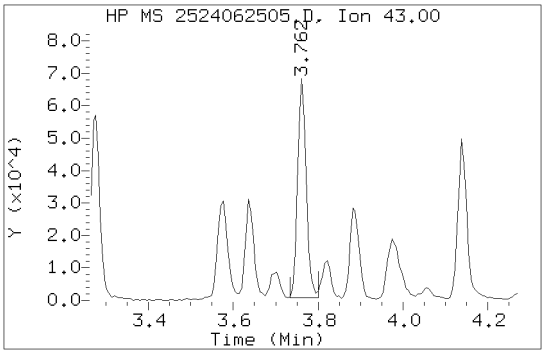
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AFTER

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25-Jun-2024
19:31

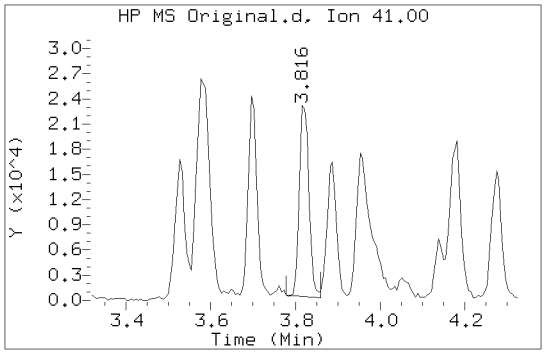


1-Chlorobutane (109-69-3)

Reason Code: I

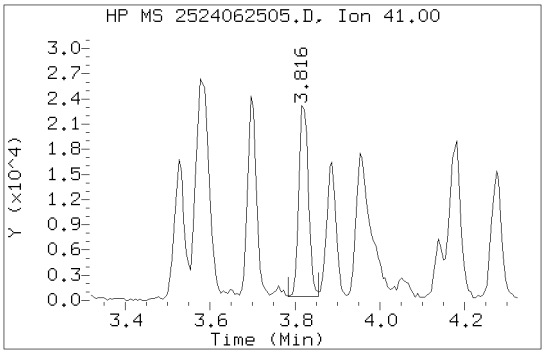
BEFORE

MASS
41
AREA
36163
HEIGHT
22753
25-Jun-2024
18:35



AFTER

MASS
41
AREA
35980
HEIGHT
22774
25-Jun-2024
19:31

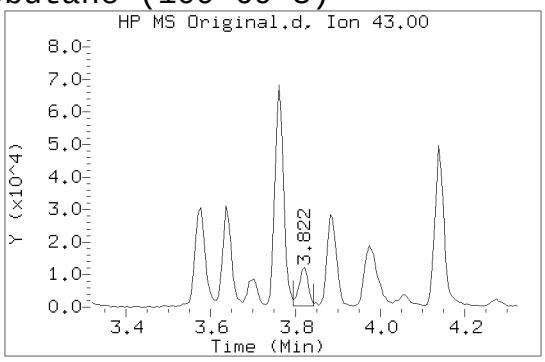


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

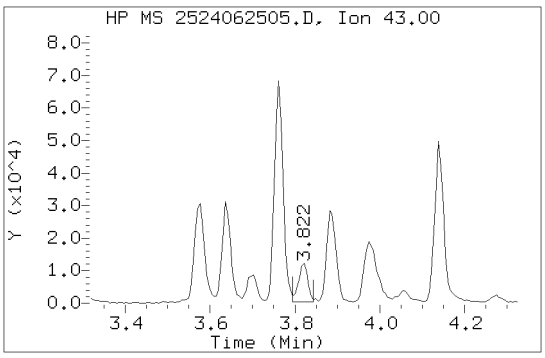
1-Chlorobutane (109-69-3)

Reason Code: I

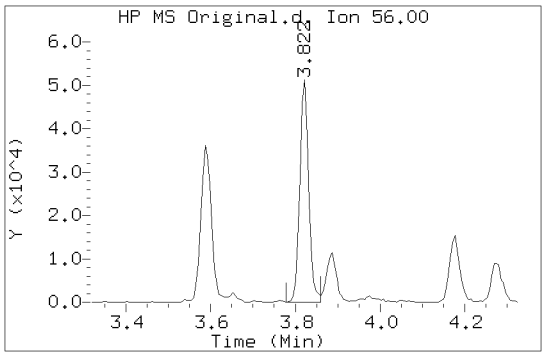
BEFORE
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
18:35



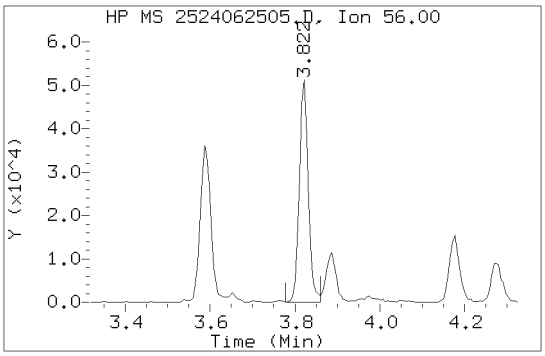
AFTER
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
19:31



BEFORE
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
18:35



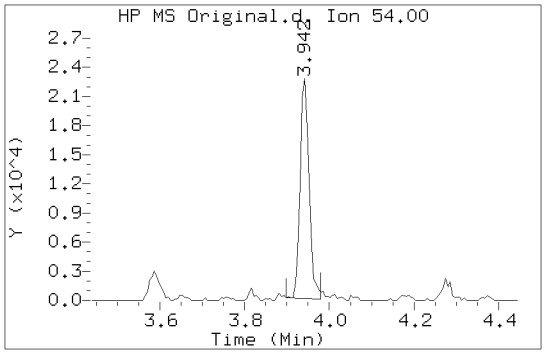
AFTER
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
19:31



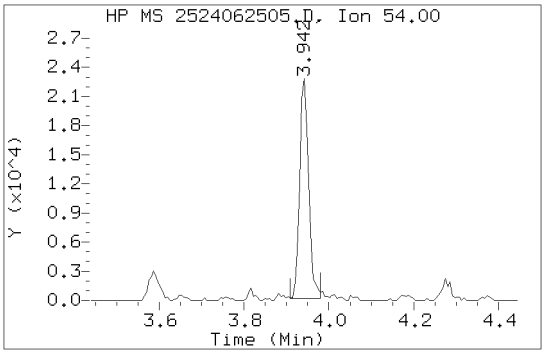
Propionitrile (107-12-0)

Reason Code: I

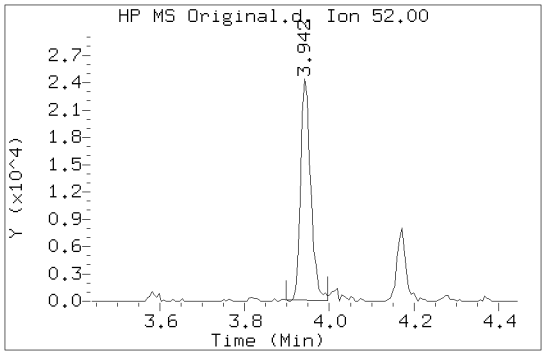
BEFORE
MASS
54
AREA
33360
HEIGHT
22634
25-Jun-2024
18:35



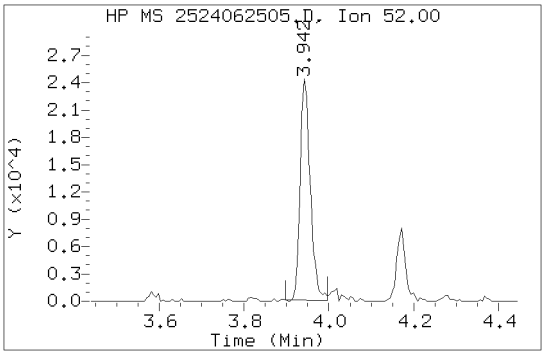
AFTER
MASS
54
AREA
33201
HEIGHT
22616
25-Jun-2024
19:31



BEFORE
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
18:35



AFTER
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
19:31

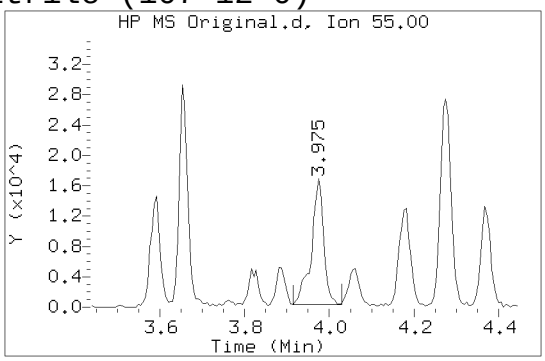


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InstruID : ms25.i
LabSampID : 1235

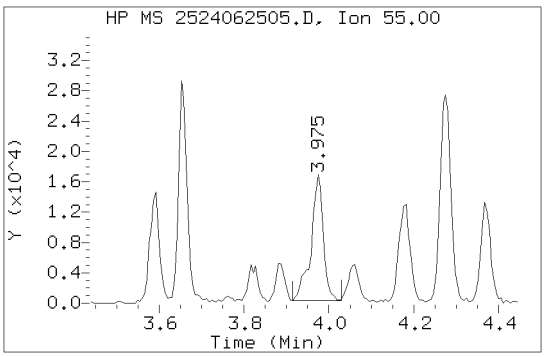
Propionitrile (107-12-0)

Reason Code: I

BEFORE
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
18:35



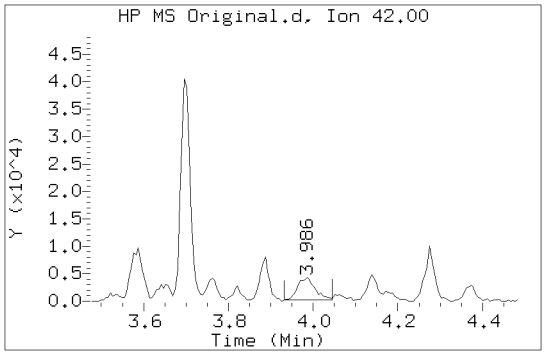
AFTER
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
19:31



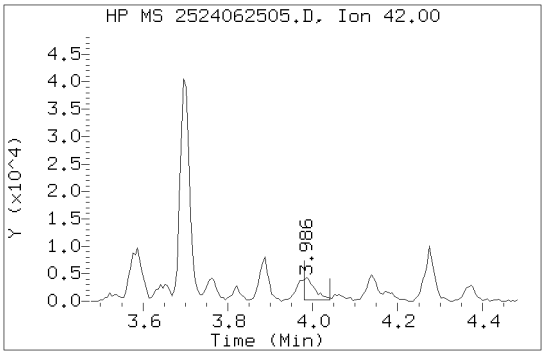
Isobutyl alcohol (78-83-1)

Reason Code: MP

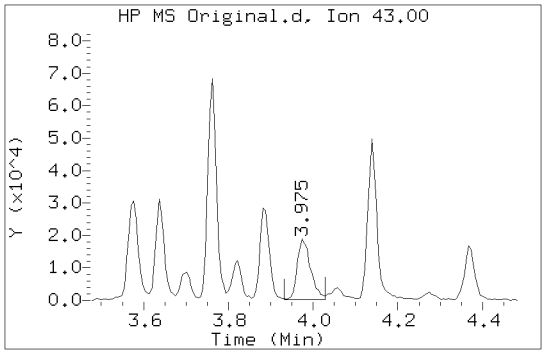
BEFORE
MASS
42
AREA
12012
HEIGHT
4113
25-Jun-2024
18:35



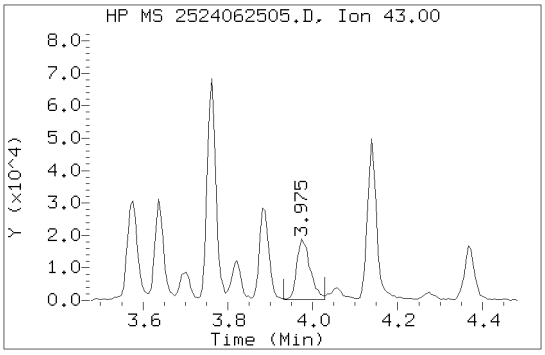
AFTER
MASS
42
AREA
7621
HEIGHT
4107
25-Jun-2024
19:31



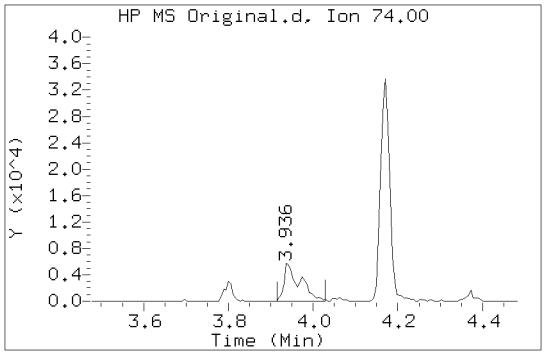
BEFORE
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
18:35



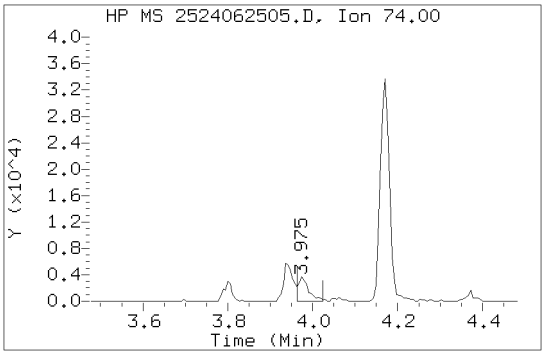
AFTER
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
15051
HEIGHT
5773
25-Jun-2024
18:35



AFTER
MASS
74
AREA
6220
HEIGHT
3685
25-Jun-2024
19:31

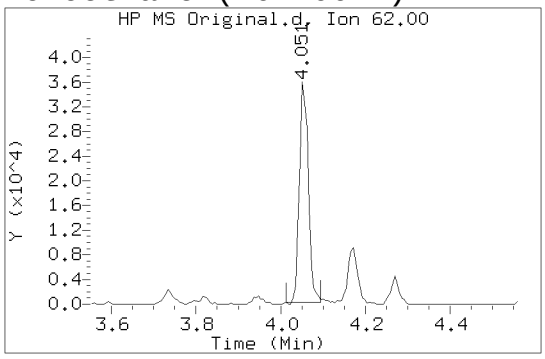


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LabSampID : 1235

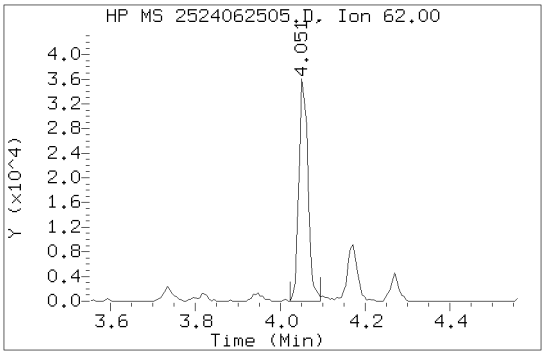
1,2-Dichloroethane (107-06-2)

Reason Code: I

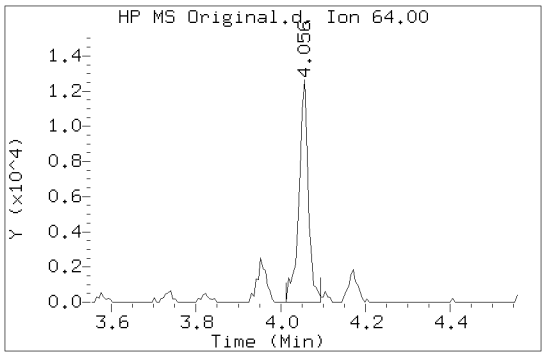
BEFORE
MASS
62
AREA
52620
HEIGHT
35766
25-Jun-2024
18:35



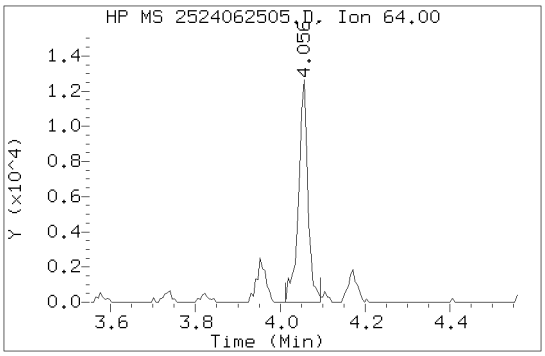
AFTER
MASS
62
AREA
53935
HEIGHT
36034
25-Jun-2024
19:31



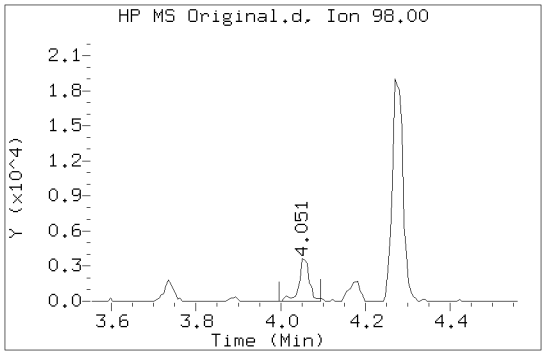
BEFORE
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
18:35



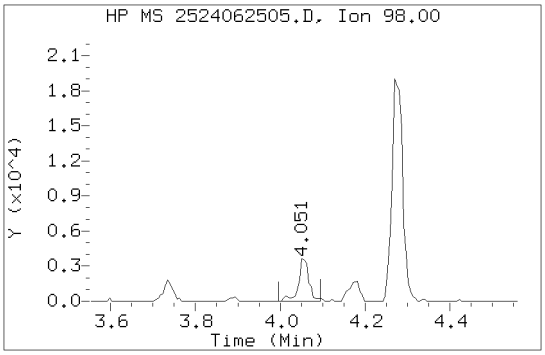
AFTER
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
19:31



BEFORE
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
18:35



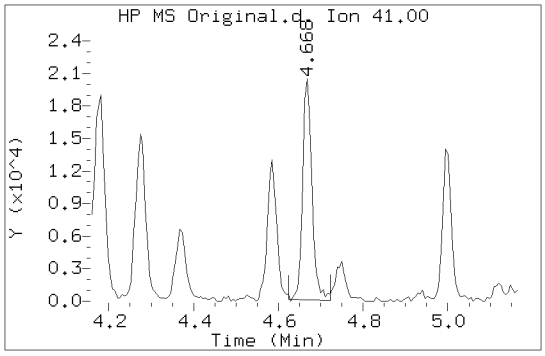
AFTER
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
19:31



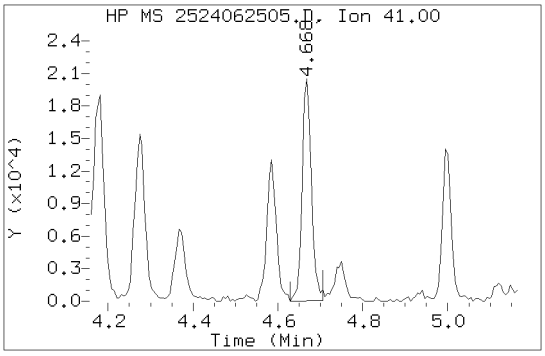
Methyl methacrylate (80-62-6)

Reason Code: I

BEFORE
MASS
41
AREA
31353
HEIGHT
20381
25-Jun-2024
18:35



AFTER
MASS
41
AREA
31161
HEIGHT
20475
25-Jun-2024
19:31

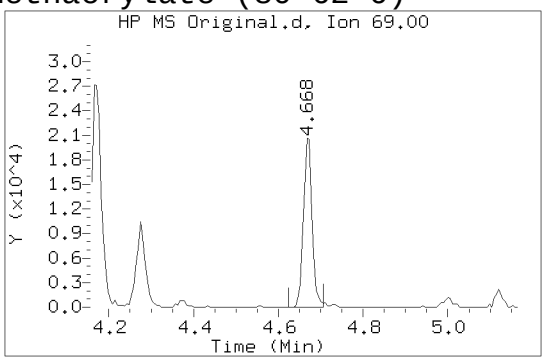


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LabSampID : 1235

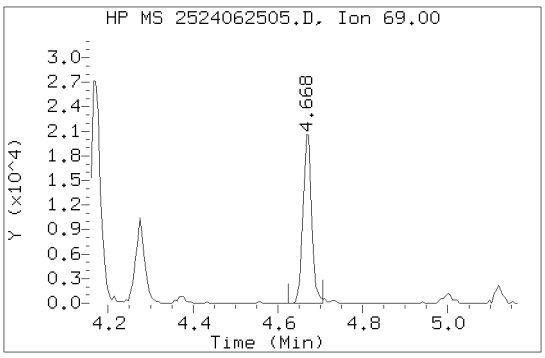
Methyl methacrylate (80-62-6)

Reason Code: I

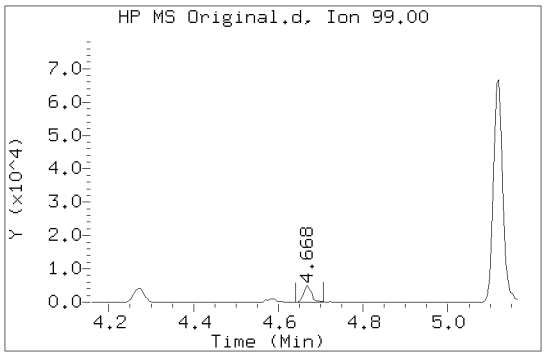
BEFORE
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
18:35



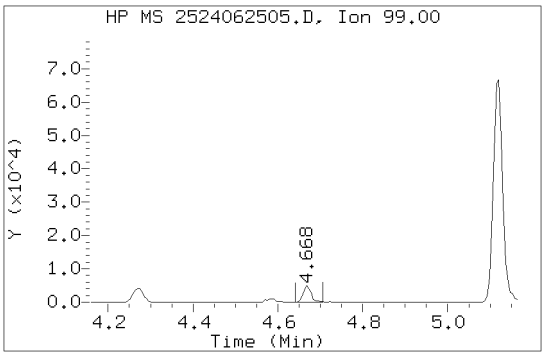
AFTER
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
18:35



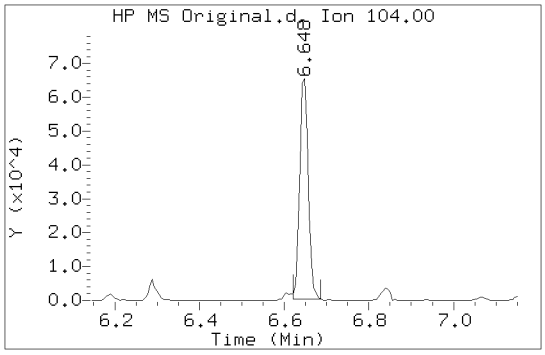
AFTER
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
19:31



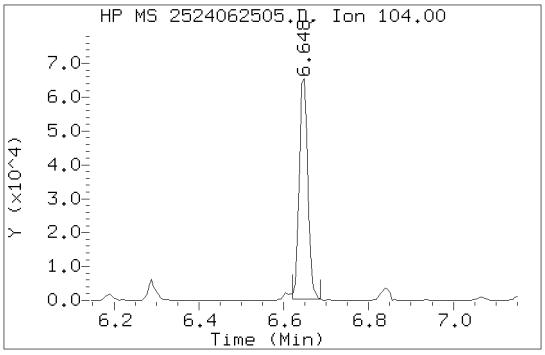
Styrene (100-42-5)

Reason Code: MP

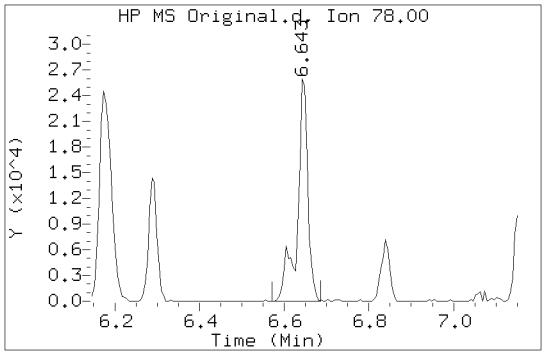
BEFORE
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
18:35



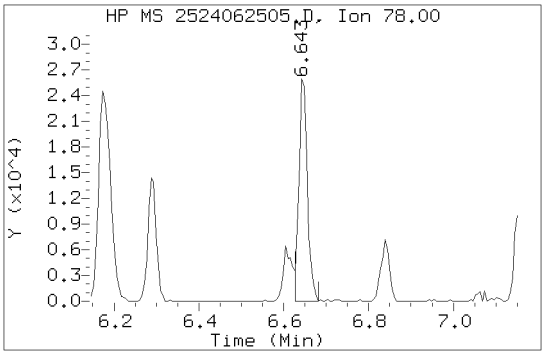
AFTER
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
45089
HEIGHT
25968
25-Jun-2024
18:35



AFTER
MASS
78
AREA
36230
HEIGHT
25938
25-Jun-2024
19:31

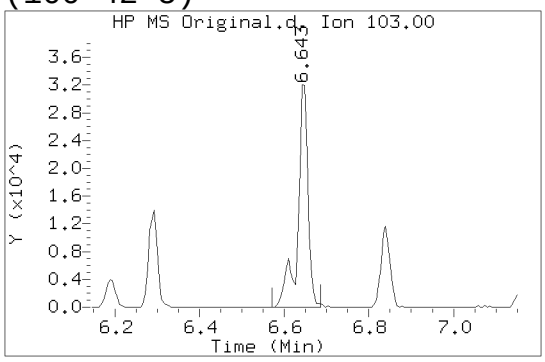


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LabSampID : 1235

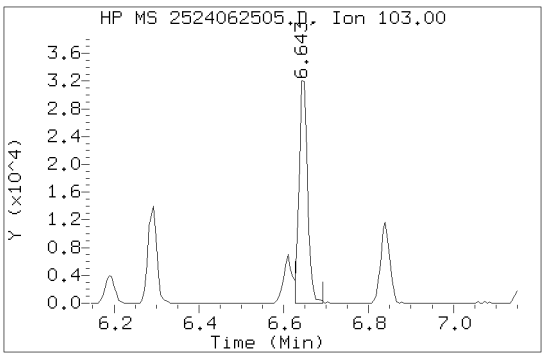
Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
103
AREA
54183
HEIGHT
32016
25-Jun-2024
18:35



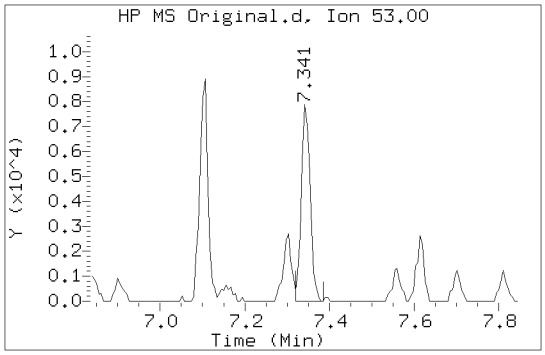
AFTER
MASS
103
AREA
44948
HEIGHT
31986
25-Jun-2024
19:31



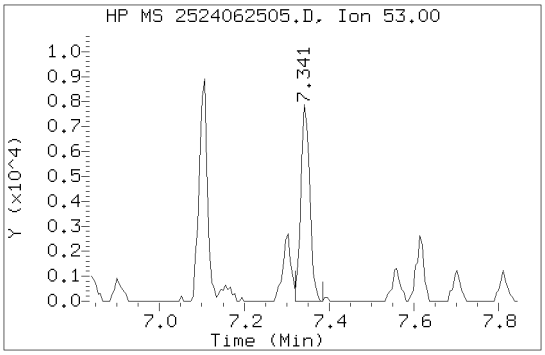
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

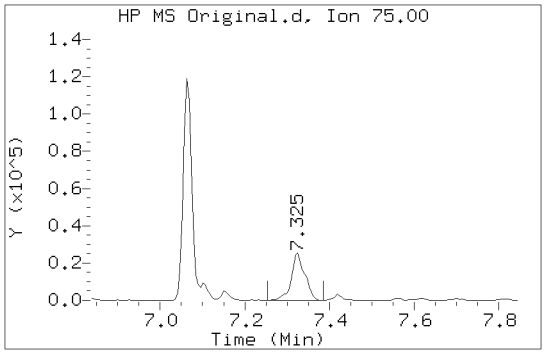
BEFORE
MASS
53
AREA
11562
HEIGHT
7888
25-Jun-2024
18:35



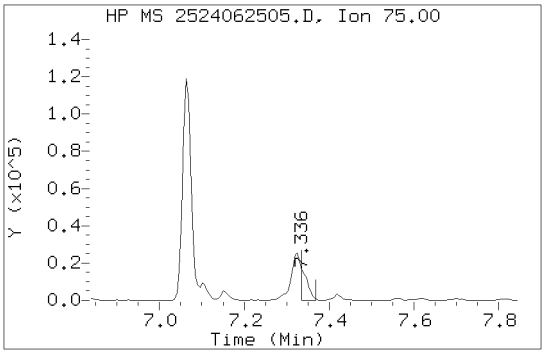
AFTER
MASS
53
AREA
11562
HEIGHT
7888
25-Jun-2024
19:31



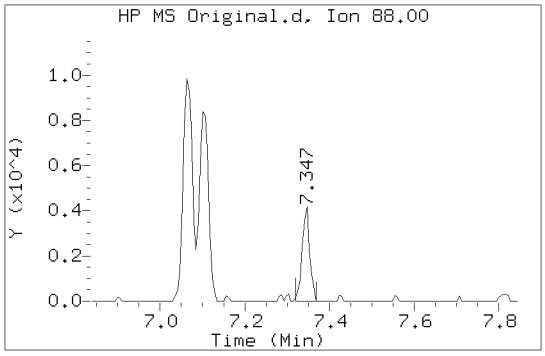
BEFORE
MASS
75
AREA
55932
HEIGHT
25472
25-Jun-2024
18:35



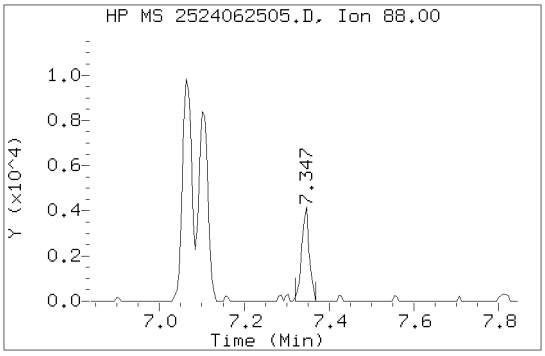
AFTER
MASS
75
AREA
18172
HEIGHT
16543
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
18:35



AFTER
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
19:31

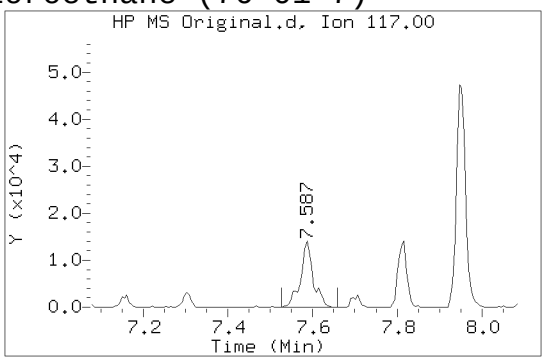


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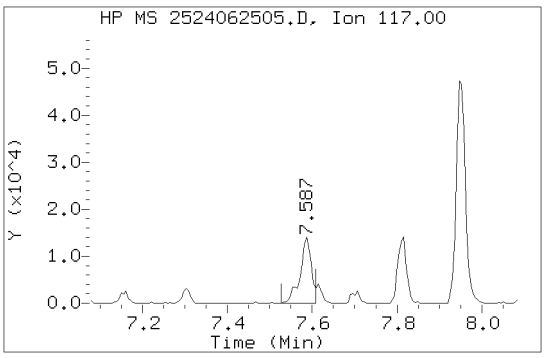
Pentachloroethane (76-01-7)

Reason Code: MP

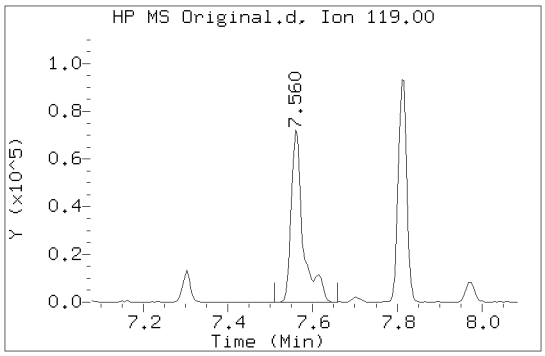
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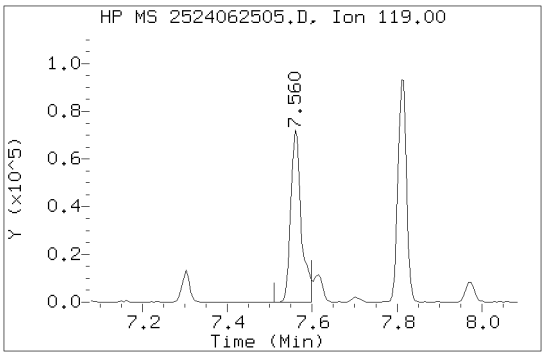
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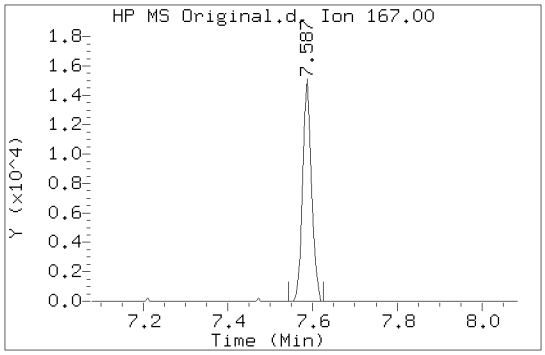
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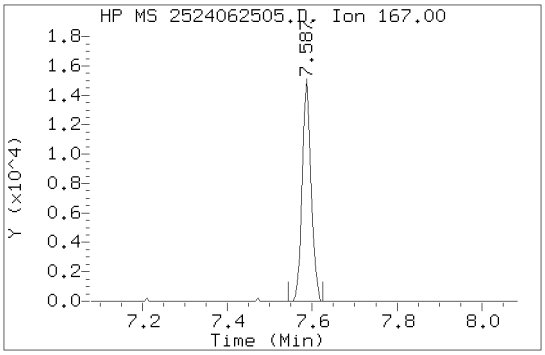
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25-Jun-2024
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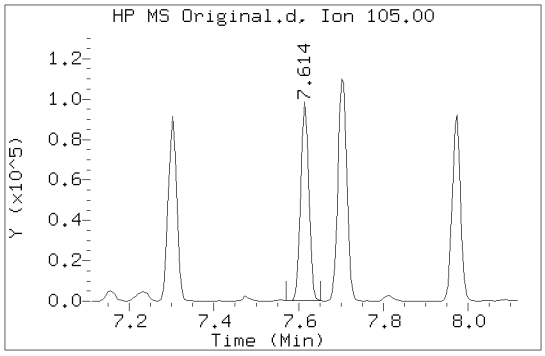
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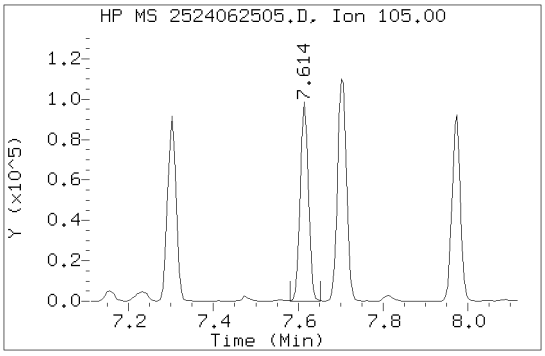
1,2,4-Trimethylbenzene (95-63-6)

Reason Code: I

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AFTER
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AREA
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HEIGHT
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25-Jun-2024
19:31



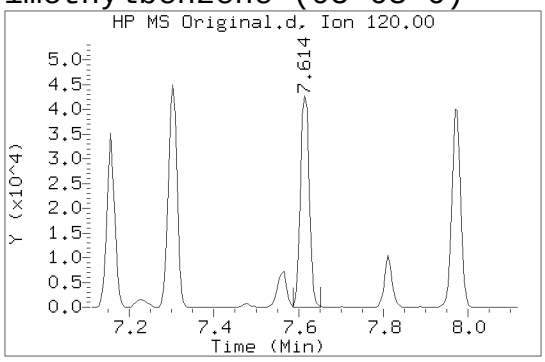
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LabSampID : 1235

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

Reason Code: I

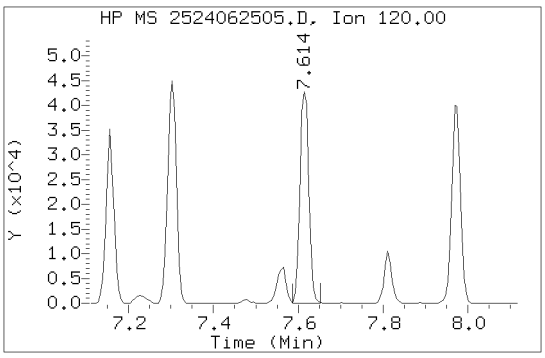
BEFORE

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18:35



AFTER

MASS
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25-Jun-2024
19:31

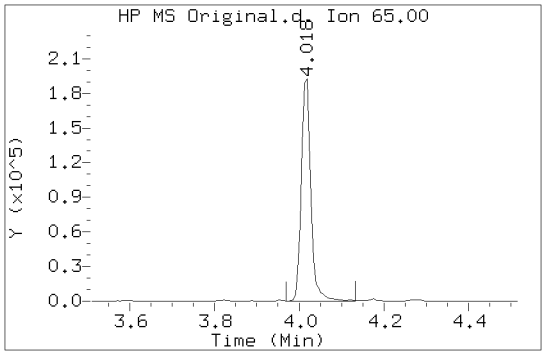


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

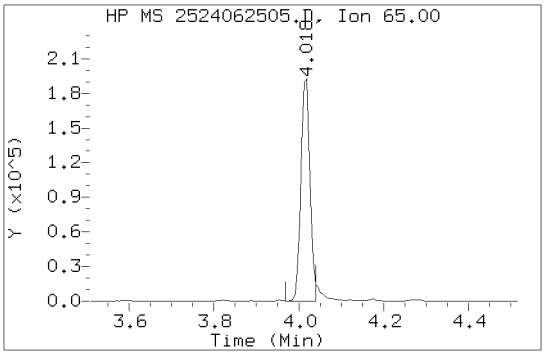
BEFORE

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25-Jun-2024
18:35



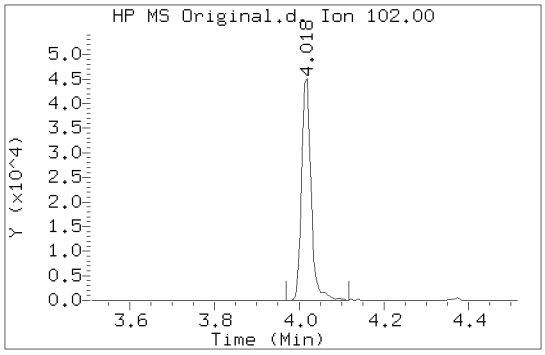
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25-Jun-2024
19:31



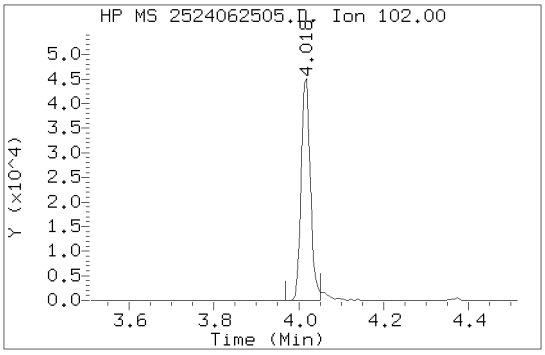
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18:35



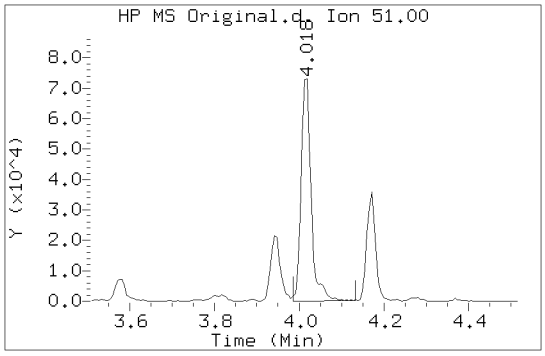
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25-Jun-2024
19:31



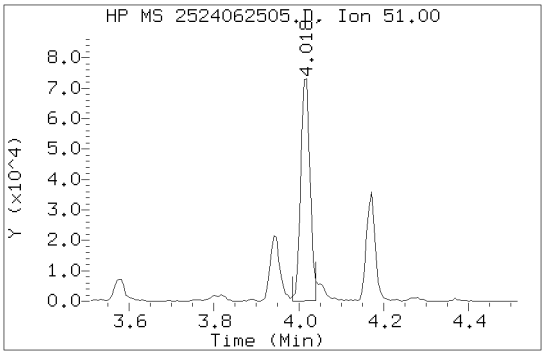
BEFORE

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25-Jun-2024
18:35



AFTER

MASS
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AREA
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HEIGHT
72920
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
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Inj Date: 25-JUN-2024 11:44
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062506.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

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Operator : ILY Inst ID: ms25.i
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Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	218972	20.0000	18.3014	
2 Chloromethane	50	1.644	1.645	(0.394)	186575	20.0000	17.7810	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	244505	20.0000	18.0770	
4 Bromomethane	94	1.922	1.923	(0.461)	128221	20.0000	19.5396	
5 Chloroethane	64	2.004	2.005	(0.481)	167849	20.0000	18.1769	
6 Pentane	41	2.091	2.092	(0.502)	154298	20.0000	17.6328	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	342524	20.0000	18.4880	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	330328	20.0000	19.2692	
9 Ethyl Ether	74	2.277	2.278	(0.546)	104226	20.0000	19.9934	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	195734	20.0000	18.8162	
11 Freon 113	101	2.424	2.425	(0.581)	135864	20.0000	18.5692	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	414688	20.0000	18.4799	
13 Iodomethane	127	2.506	2.507	(0.601)	55931	20.0000	14.2386	
14 Acrolein	56	2.599	2.600	(0.623)	158045	100.000	94.1918	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	48509	100.000	86.3919	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	163615	20.0000	18.1616	
17 Methylene Chloride	84	2.741	2.741	(0.657)	162608	20.0000	19.1368	
18 Acetone	58	2.757	2.752	(0.661)	85596	100.000	90.9222	
19 Methyl acetate	74	2.817	2.812	(0.676)	35525	20.0000	18.1033	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	192543	20.0000	18.8981	
21 Hexane	57	2.866	2.867	(0.687)	304896	20.0000	17.8025	

Data File: 2524062506.D
Report Date: 25-Jun-2024 19:32

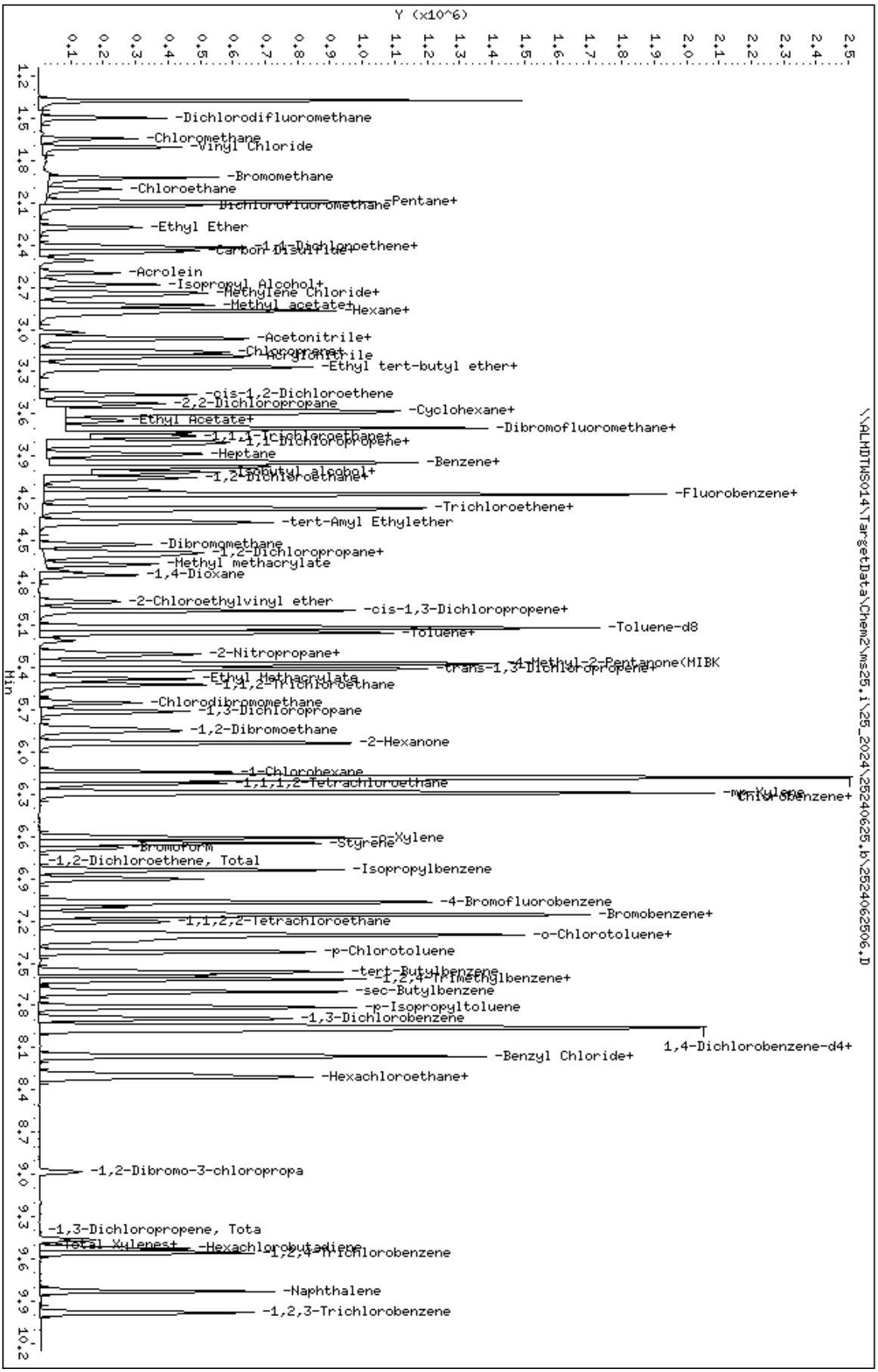
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	466744	20.0000	18.0052	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	93681	100.000	99.6811	
	24 Acetonitrile	41	3.019	3.020	(0.724)	101641	100.000	96.5507	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	437840	20.0000	19.3632	
	26 Chloroprene	53	3.155	3.156	(0.757)	221317	20.0000	19.3055	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	262971	20.0000	18.9452	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	357939	100.000	99.0143(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	474249	20.0000	19.7473	
	30 n-Propanol	41	3.265	3.260	(0.783)	78030	200.000	175.162	
	31 Vinyl Acetate	86	3.275	3.276	(0.785)	38506	20.0000	16.5102(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	202733	20.0000	19.6245	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	209285	20.0000	18.9176	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	89307	20.0000	20.0465(M)	I
	35 Cyclohexane	84	3.587	3.587	(0.860)	228148	20.0000	18.4057	
	36 Chloroform	83	3.597	3.598	(0.863)	289206	20.0000	19.3002	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	158992	20.0000	17.6402	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	161402	20.0000	19.4022	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	178993	20.0000	16.5213(M)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	254218	30.0000	29.7958	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	239357	100.000	94.1190	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	229321	20.0000	19.6617	
	43 2-Butanone	72	3.761	3.767	(0.902)	119256	100.000	97.0025(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	209130	20.0000	18.9558	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	125975	20.0000	17.7561(M)	I
	46 Heptane	71	3.881	3.887	(0.931)	113785	20.0000	17.7521	
	47 Benzene	78	3.941	3.942	(0.945)	633576	20.0000	18.6841	
	48 Propionitrile	54	3.941	3.942	(0.945)	134551	100.000	98.2898	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	80238	20.0000	19.5530	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	449684	20.0000	19.3976	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	34403	200.000	167.479(QM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	270413	30.0000	30.0658(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	198579	20.0000	18.6286	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	67407	100.000	93.4837	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1081327	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	376363	20.0000	17.0103	
	57 Trichloroethene	95	4.269	4.269	(1.024)	154832	20.0000	18.0411	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	253987	20.0000	18.9162	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	354280	20.0000	17.7021	
	60 Dibromomethane	93	4.525	4.526	(1.085)	107302	20.0000	19.7777	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	156440	20.0000	19.1684	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	189702	20.0000	16.9316	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	123610	20.0000	19.1373	
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	59497	500.000	470.930(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	95250	20.0000	16.1993	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	247573	20.0000	17.8608	
	67 Octane	85	4.994	5.000	(0.809)	99968	20.0000	19.6362	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004639	30.0000	30.6546	
	69 Toluene	92	5.153	5.153	(0.835)	377248	20.0000	18.1613	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	48573	100.000	93.8022	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	186383	100.000	83.0816	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	18693	100.000	86.1649(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	770302	100.000	94.5351	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	223814	20.0000	17.4534	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	146028	20.0000	19.3061	

Data File: 2524062506.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	223797	20.0000	18.0778	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	126126	20.0000	19.7624	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	154197	20.0000	17.2869	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	254532	20.0000	20.1855	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	153645	20.0000	18.2360	
	81 2-Hexanone	43	5.933	5.933	(0.961)	515146	100.000	92.2414	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	207769	20.0000	19.0130	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	413941	30.0000	(M)	MP
	84 Chlorobenzene	112	6.184	6.184	(1.002)	413442	20.0000	19.5313	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	219414	20.0000	17.6413	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	142310	20.0000	18.0101	
	87 mp-Xylene	106	6.287	6.288	(1.019)	535925	40.0000	35.9652	
	88 o-Xylene	106	6.609	6.610	(1.071)	249220	20.0000	17.6917	
	89 Styrene	104	6.648	6.648	(0.836)	391500	20.0000	17.3301(M)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	102722	20.0000	16.1644	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	566222	20.0000	17.8690	
M	100 1,2-Dichloroethene, Total	61				395276	40.0000	38.5226	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	329556	30.0000	30.8412	
	93 Bromobenzene	156	7.155	7.156	(0.900)	171981	20.0000	18.8323	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	172929	20.0000	18.5182	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	181899	20.0000	20.0402	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	467074	20.0000	19.0107	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	483177	20.0000	18.5913	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	58202	20.0000	19.8811	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	47099	20.0000	17.1018(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	428598	20.0000	19.2591	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	123761	20.0000	19.9106	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	104294	20.0000	16.9034(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	488792	20.0000	17.6631	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	625458	20.0000	19.4719	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	142765	20.0000	19.4087	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	294339	20.0000	19.1313	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	386252	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	300384	20.0000	18.7310	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	59767	20.0000	15.8725(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	125006	20.0000	18.1853	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	85914	20.0000	15.8547	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	283817	20.0000	19.3661	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	27852	20.0000	16.3262	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	74725	200.000	143.781	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	82540	20.0000	17.1898	
M	120 1,3-Dichloropropene, Total	75				471387	40.0000	35.3142	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	179576	20.0000	18.5029	
M	121 Total Xylenes	106				785145	60.0000	53.6568	
	118 Naphthalene	128	9.829	9.829	(1.236)	463248	20.0000	16.4549	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	178753	20.0000	16.5886	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

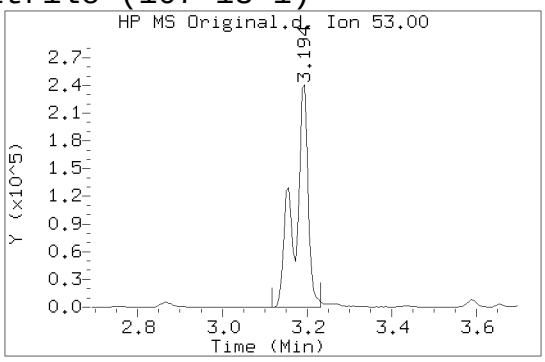

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Client ID:
Sample Info: 1236;;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
\\ALHDTMS014\TargetData\Chem2\ms25,i\25_2024\25240625,b\25240625006.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Cyclohexane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-Chlorobenzene+
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Naphthalene
-1,2,3-Trichlorobenzene
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062506.D
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InstruID : ms25.i
LabSampID : 1236

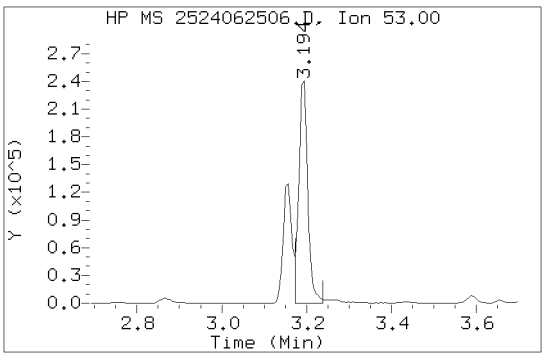
Acrylonitrile (107-13-1)

Reason Code: MP

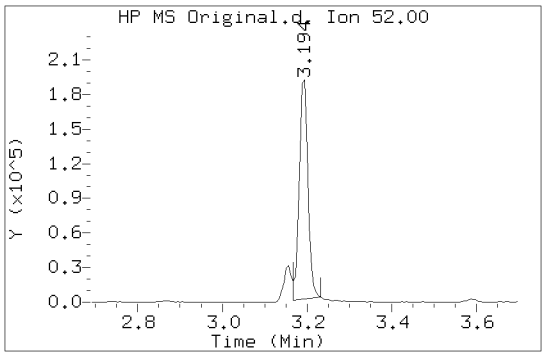
BEFORE
MASS
53
AREA
535739
HEIGHT
240576
25-Jun-2024
18:30



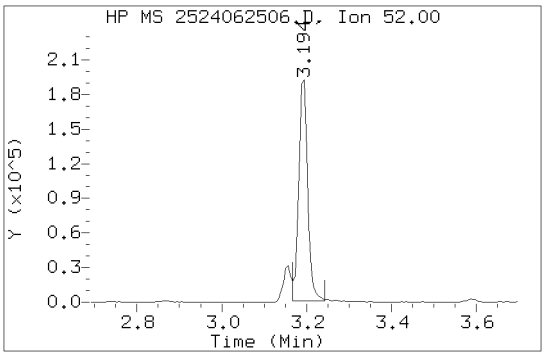
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MASS
53
AREA
357939
HEIGHT
240303
25-Jun-2024
19:31



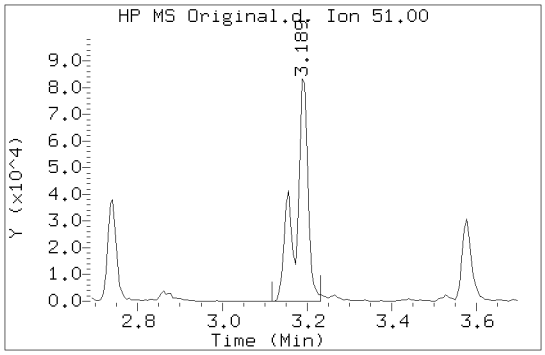
BEFORE
MASS
52
AREA
273609
HEIGHT
189823
25-Jun-2024
18:30



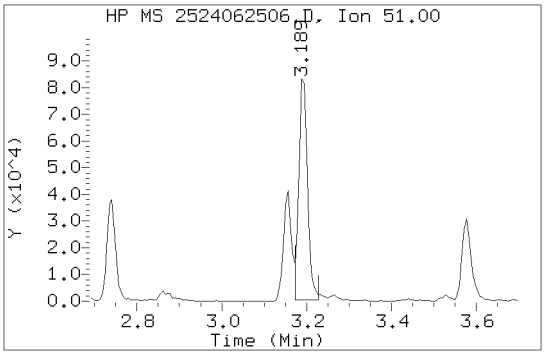
AFTER
MASS
52
AREA
282064
HEIGHT
191416
25-Jun-2024
19:31



BEFORE
MASS
51
AREA
175101
HEIGHT
83248
25-Jun-2024
18:30



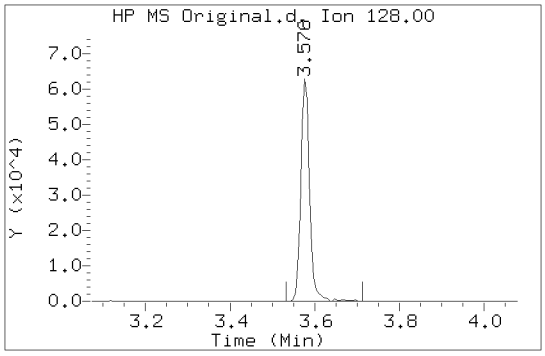
AFTER
MASS
51
AREA
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HEIGHT
82881
25-Jun-2024
19:31



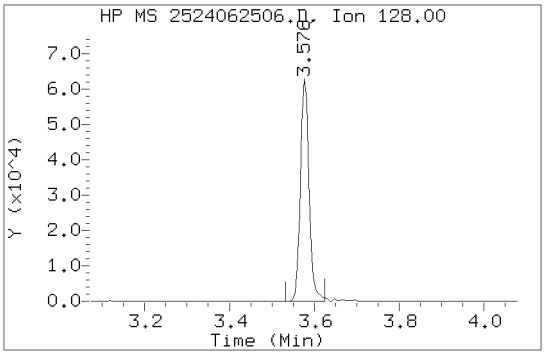
Bromochloromethane (74-97-5)

Reason Code: I

BEFORE
MASS
128
AREA
90451
HEIGHT
62864
25-Jun-2024
18:30



AFTER
MASS
128
AREA
89307
HEIGHT
62864
25-Jun-2024
19:31

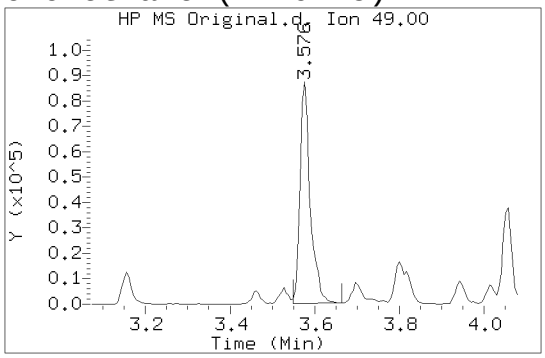


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InstruID : ms25.i
LabSampID : 1236

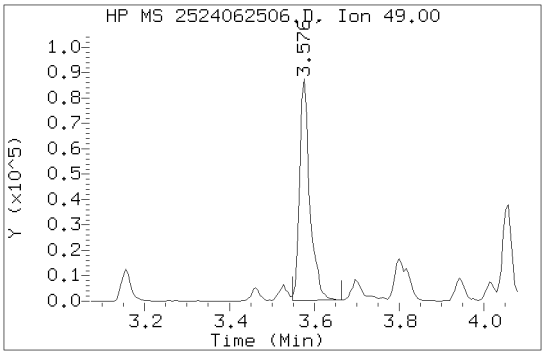
Bromochloromethane (74-97-5)

Reason Code: I

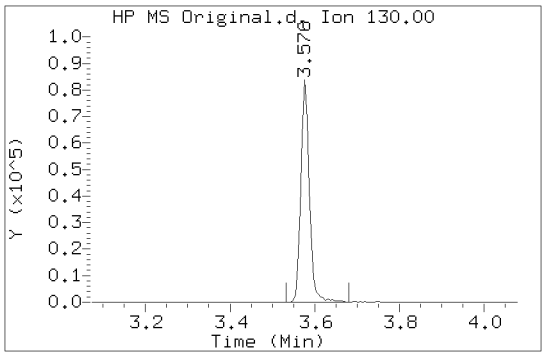
BEFORE
MASS
49
AREA
145936
HEIGHT
87229
25-Jun-2024
18:30



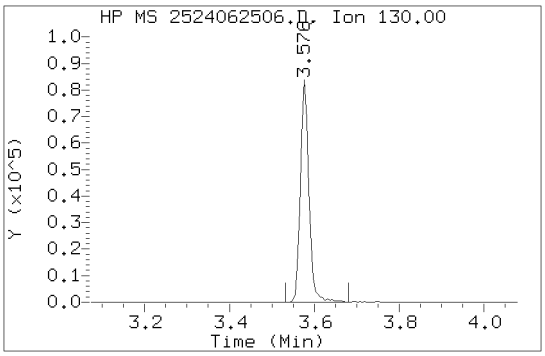
AFTER
MASS
49
AREA
145936
HEIGHT
87229
25-Jun-2024
19:31



BEFORE
MASS
130
AREA
116625
HEIGHT
83816
25-Jun-2024
18:30



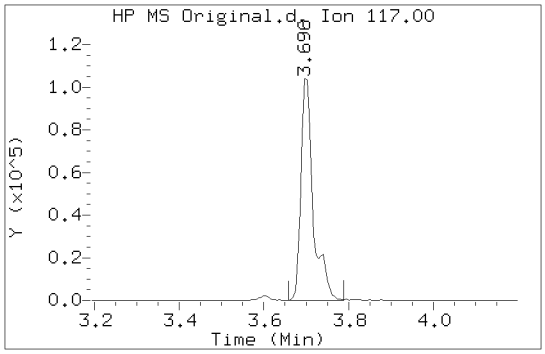
AFTER
MASS
130
AREA
116625
HEIGHT
83816
25-Jun-2024
19:31



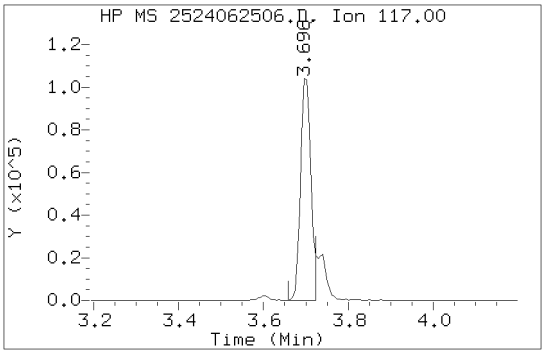
Carbon Tetrachloride (56-23-5)

Reason Code: MP

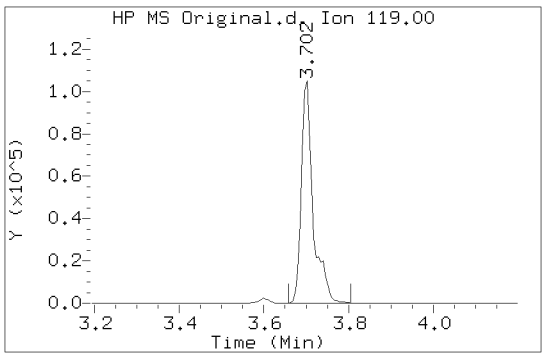
BEFORE
MASS
117
AREA
211149
HEIGHT
104040
25-Jun-2024
18:30



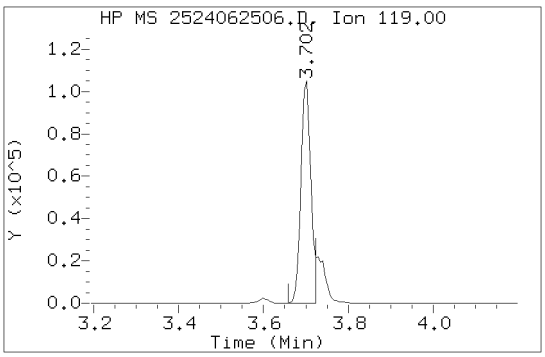
AFTER
MASS
117
AREA
178993
HEIGHT
104040
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
203931
HEIGHT
105000
25-Jun-2024
18:30



AFTER
MASS
119
AREA
172558
HEIGHT
105000
25-Jun-2024
19:31

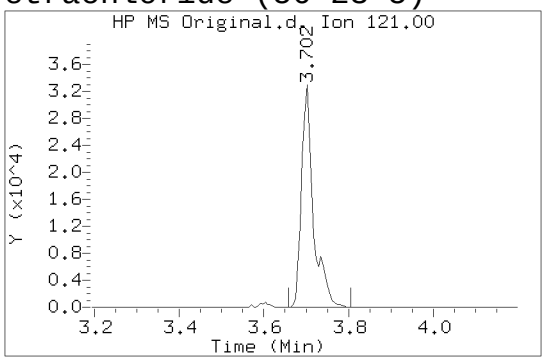


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LabSampID : 1236

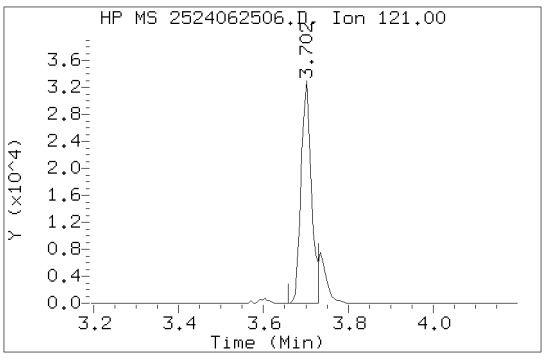
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
64517
HEIGHT
32968
25-Jun-2024
18:30



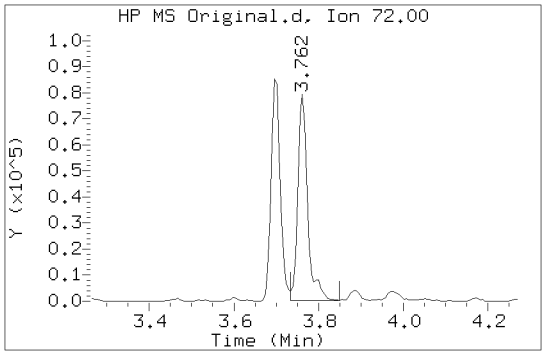
AFTER
MASS
121
AREA
55966
HEIGHT
32968
25-Jun-2024
19:31



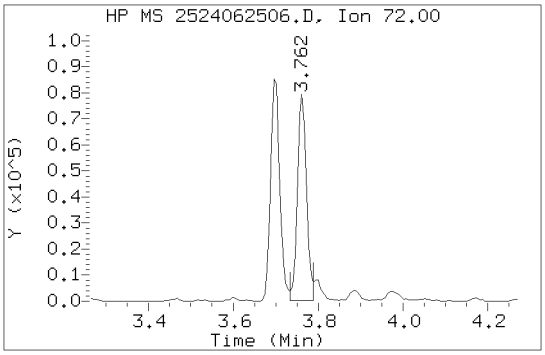
2-Butanone (78-93-3)

Reason Code: MP

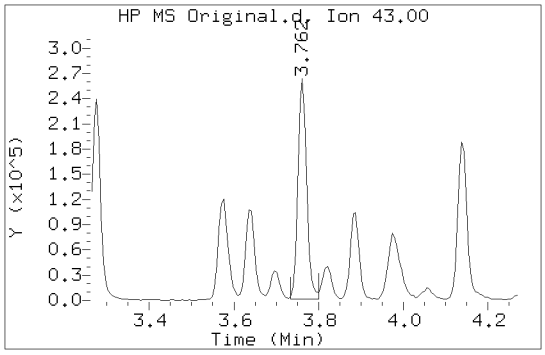
BEFORE
MASS
72
AREA
128471
HEIGHT
79252
25-Jun-2024
18:30



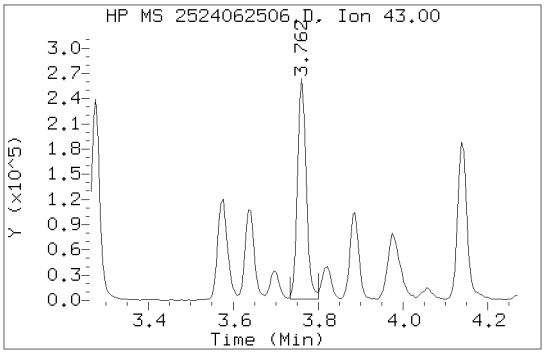
AFTER
MASS
72
AREA
119256
HEIGHT
79253
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
376948
HEIGHT
262047
25-Jun-2024
18:30



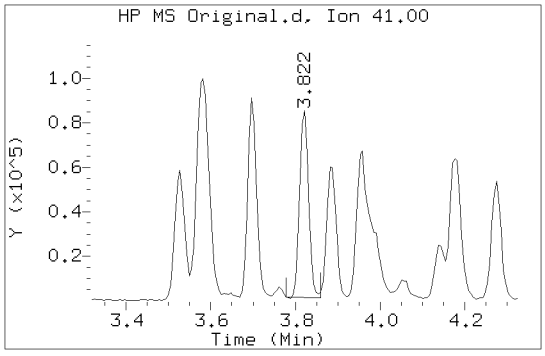
AFTER
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AREA
376948
HEIGHT
262047
25-Jun-2024
19:31



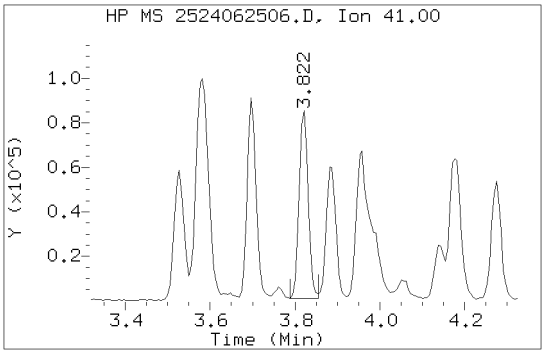
1-Chlorobutane (109-69-3)

Reason Code: I

BEFORE
MASS
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AREA
124558
HEIGHT
83995
25-Jun-2024
18:30



AFTER
MASS
41
AREA
125975
HEIGHT
84503
25-Jun-2024
19:31

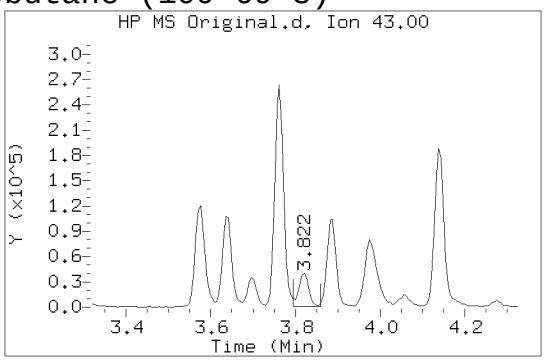


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LabSampID : 1236

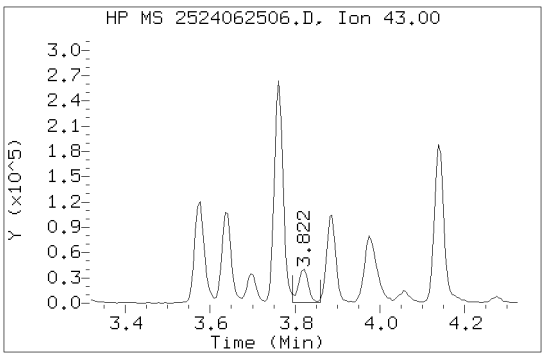
1-Chlorobutane (109-69-3)

Reason Code: I

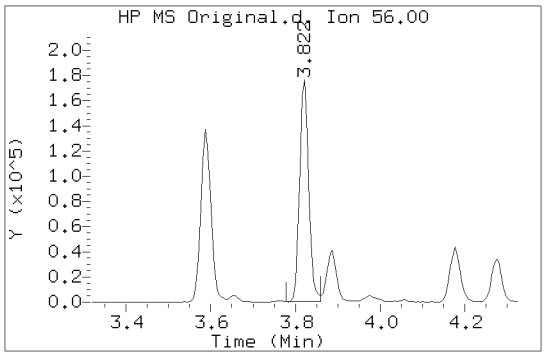
BEFORE
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
18:30



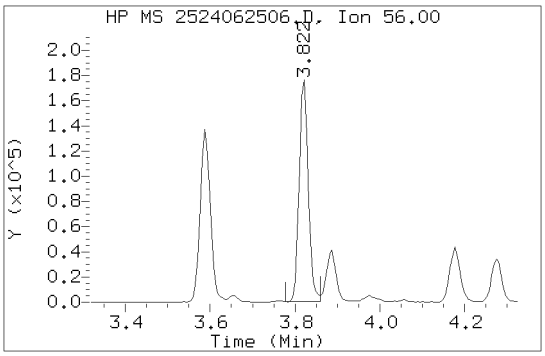
AFTER
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
19:31



BEFORE
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56
AREA
263874
HEIGHT
176057
25-Jun-2024
18:30



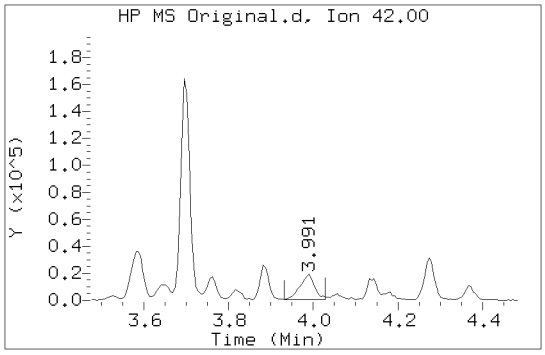
AFTER
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56
AREA
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HEIGHT
176057
25-Jun-2024
19:31



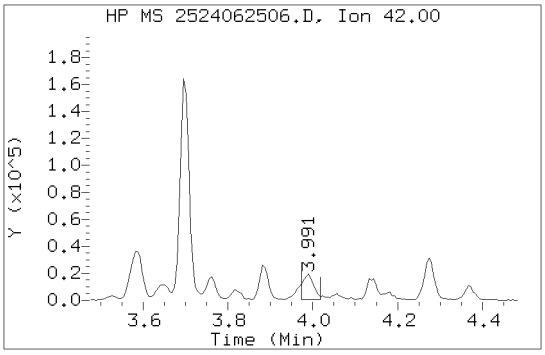
Isobutyl alcohol (78-83-1)

Reason Code: MP

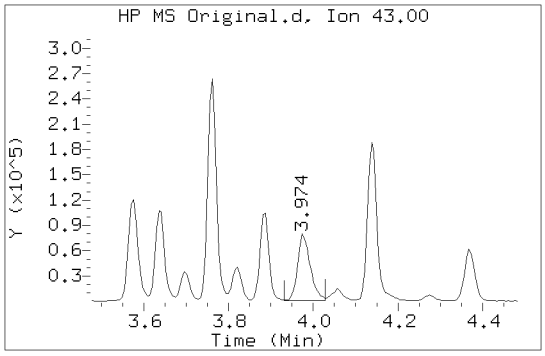
BEFORE
MASS
42
AREA
44994
HEIGHT
18890
25-Jun-2024
18:30



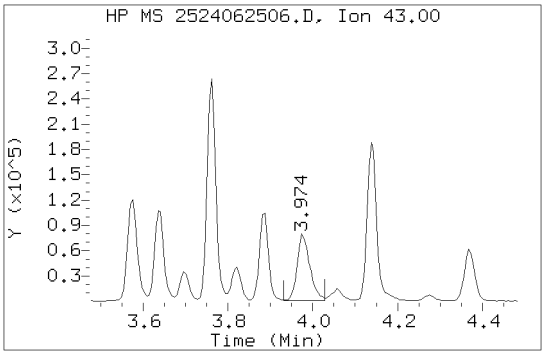
AFTER
MASS
42
AREA
34403
HEIGHT
19071
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
18:30



AFTER
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
19:31



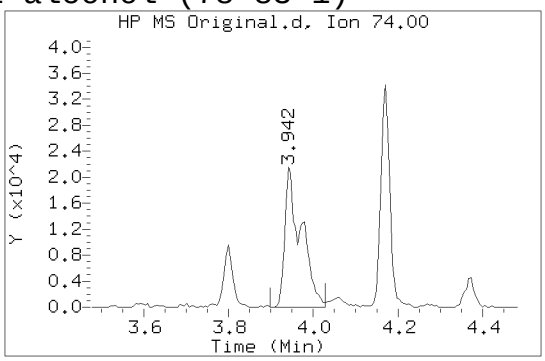
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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

Isobutyl alcohol (78-83-1)

Reason Code: MP

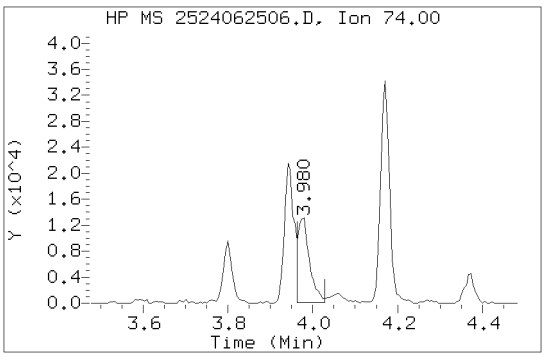
BEFORE

MASS
74
AREA
58007
HEIGHT
21560
25-Jun-2024
18:30



AFTER

MASS
74
AREA
25639
HEIGHT
13039
25-Jun-2024
19:31

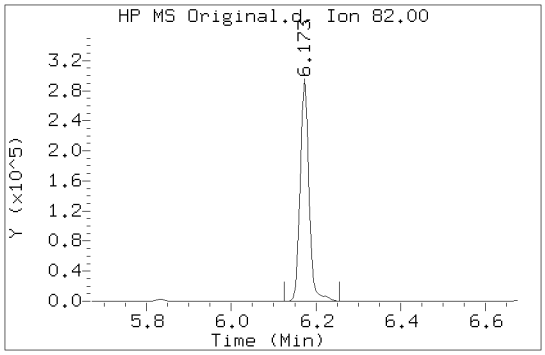


Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

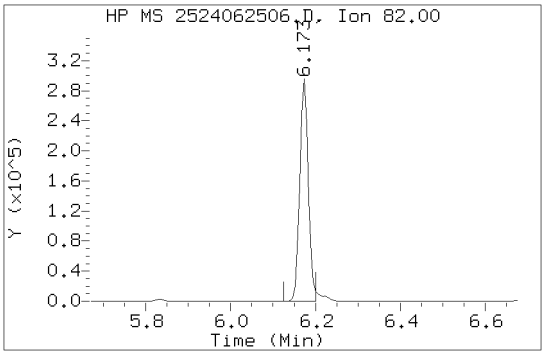
BEFORE

MASS
82
AREA
427444
HEIGHT
295680
25-Jun-2024
18:30



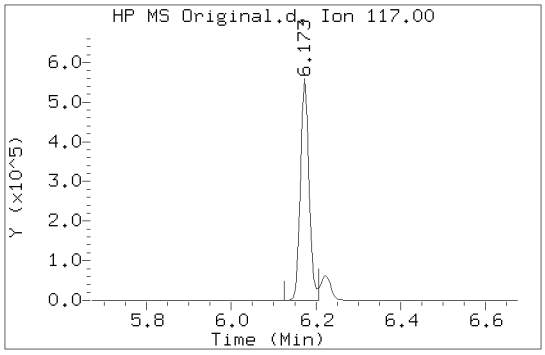
AFTER

MASS
82
AREA
413941
HEIGHT
295680
25-Jun-2024
19:31



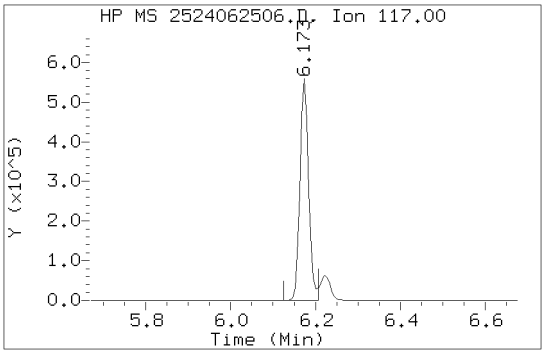
BEFORE

MASS
117
AREA
795410
HEIGHT
559168
25-Jun-2024
18:30



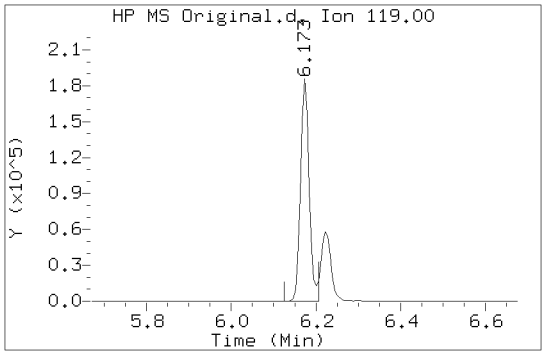
AFTER

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117
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795410
HEIGHT
559168
25-Jun-2024
19:31



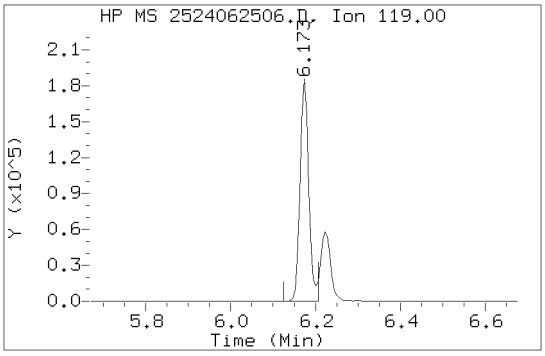
BEFORE

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
18:30



AFTER

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
19:31

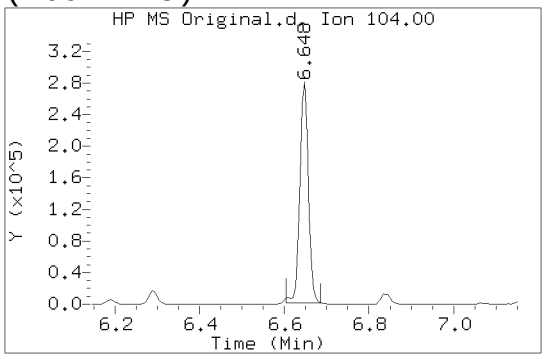


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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

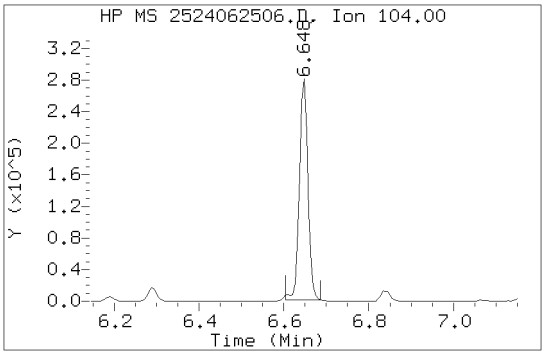
Styrene (100-42-5)

Reason Code: MP

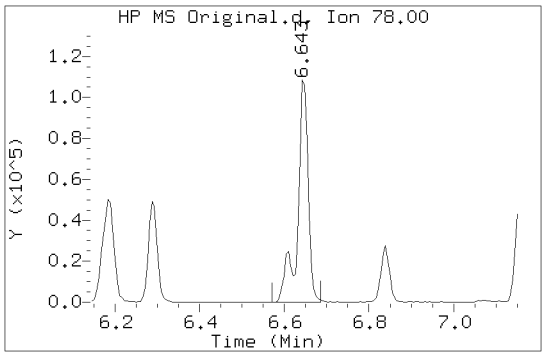
BEFORE
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
18:30



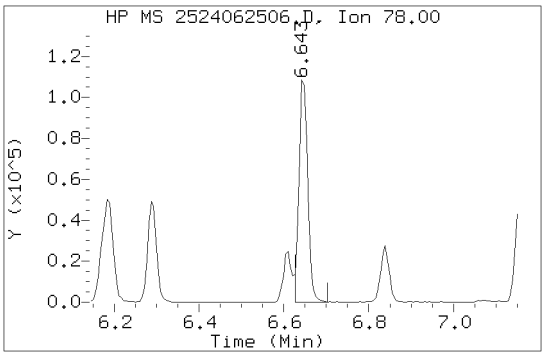
AFTER
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
19:31



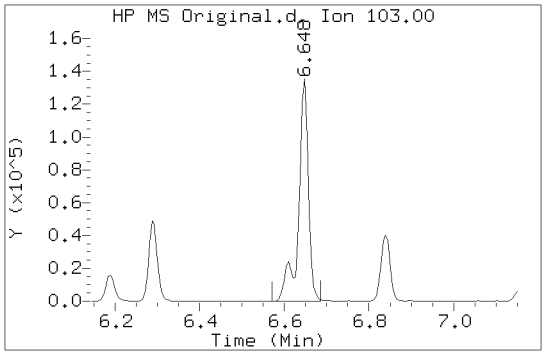
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MASS
78
AREA
190610
HEIGHT
108552
25-Jun-2024
18:30



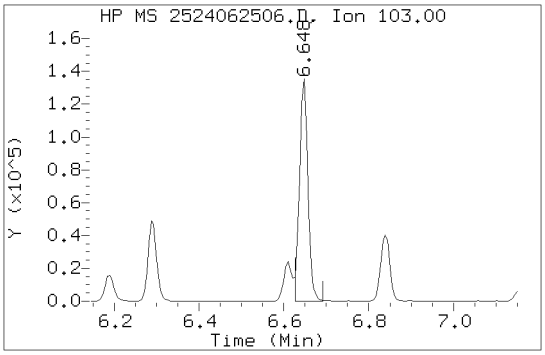
AFTER
MASS
78
AREA
157590
HEIGHT
108498
25-Jun-2024
19:31



BEFORE
MASS
103
AREA
220134
HEIGHT
135360
25-Jun-2024
18:30



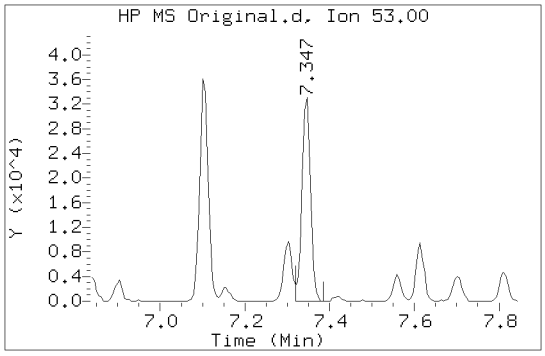
AFTER
MASS
103
AREA
187425
HEIGHT
135253
25-Jun-2024
19:31



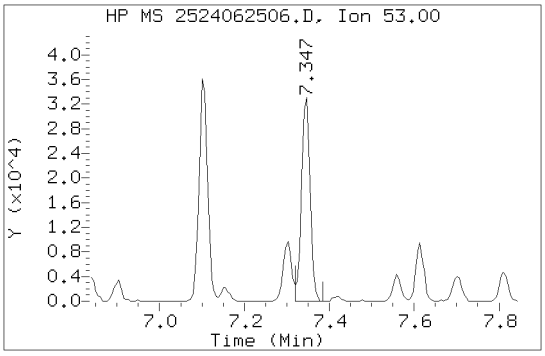
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

BEFORE
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
18:30



AFTER
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
19:31

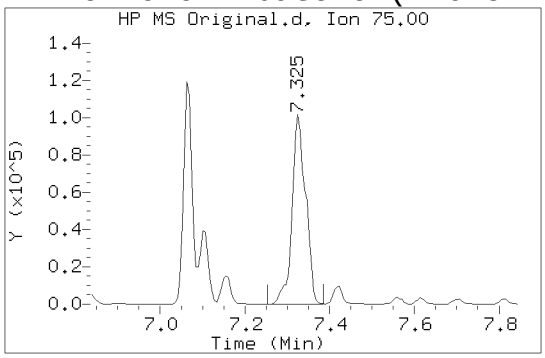


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InstruID : ms25.i
LabSampID : 1236

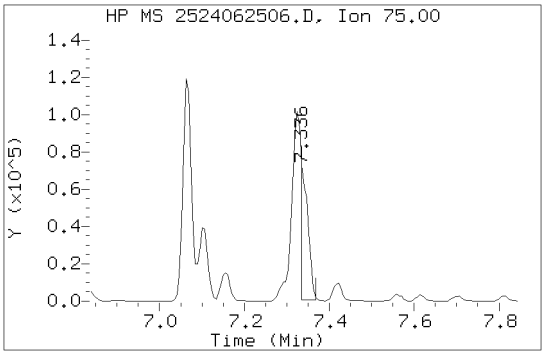
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

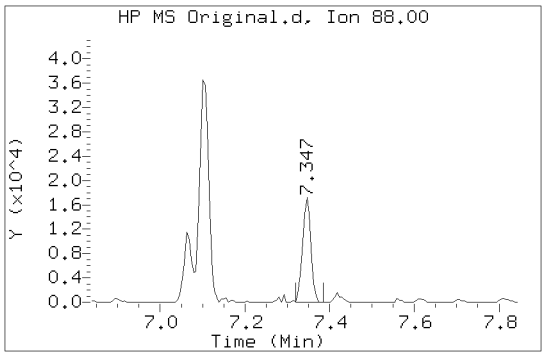
BEFORE
MASS
75
AREA
226916
HEIGHT
101592
25-Jun-2024
18:30



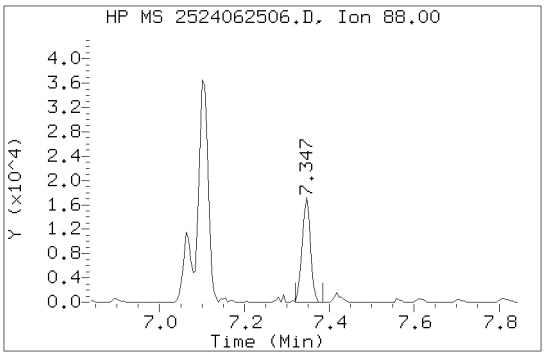
AFTER
MASS
75
AREA
82393
HEIGHT
72327
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
18:30



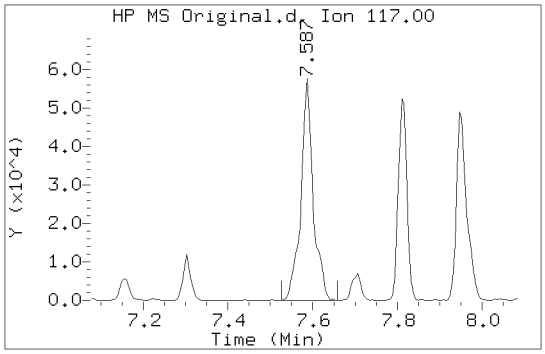
AFTER
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
19:31



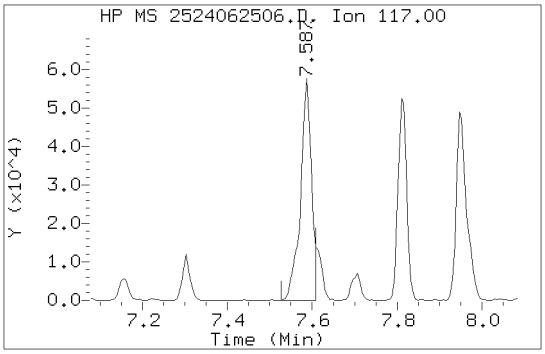
Pentachloroethane (76-01-7)

Reason Code: MP

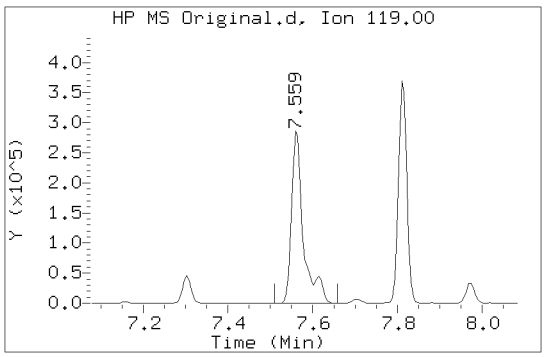
BEFORE
MASS
117
AREA
115930
HEIGHT
57624
25-Jun-2024
18:30



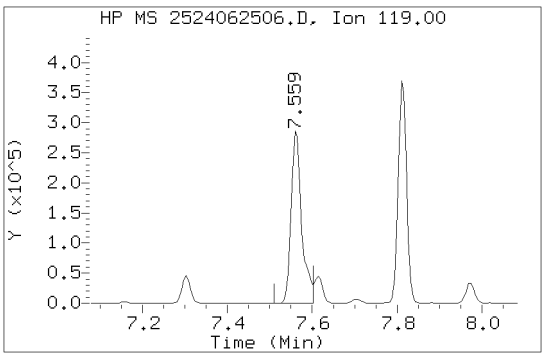
AFTER
MASS
117
AREA
104294
HEIGHT
57624
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
557519
HEIGHT
285888
25-Jun-2024
18:30



AFTER
MASS
119
AREA
503478
HEIGHT
285888
25-Jun-2024
19:31



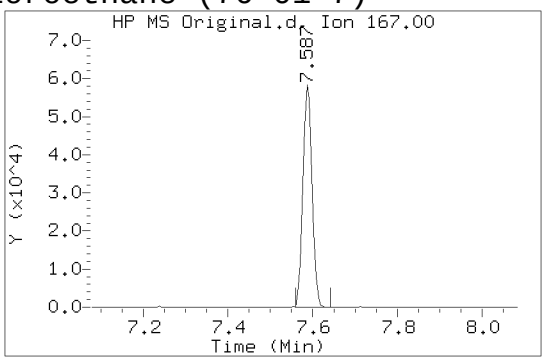
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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

Pentachloroethane (76-01-7)

Reason Code: MP

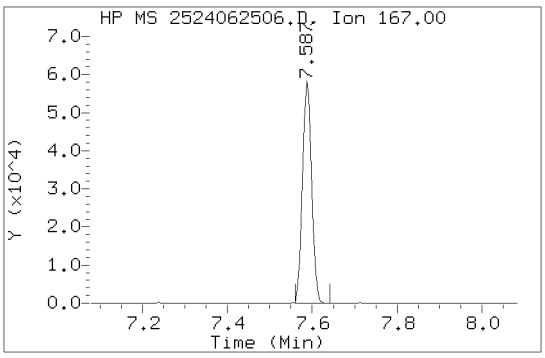
BEFORE

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
18:30



AFTER

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
19:31

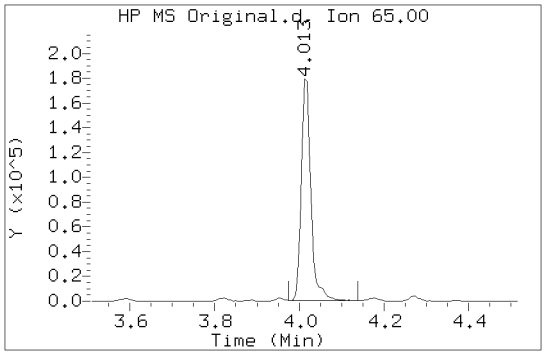


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

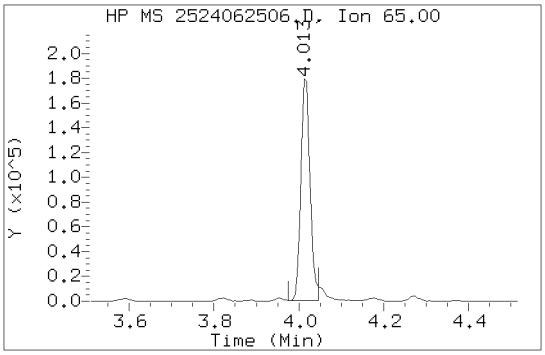
BEFORE

MASS
65
AREA
283179
HEIGHT
179074
25-Jun-2024
18:30



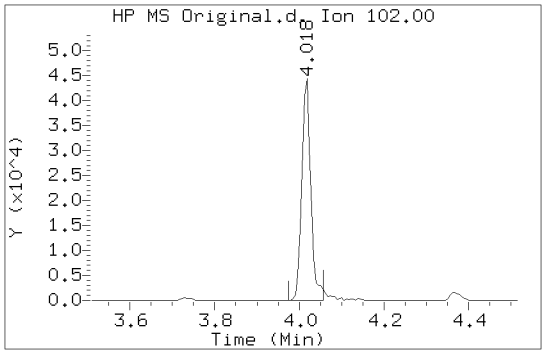
AFTER

MASS
65
AREA
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HEIGHT
179074
25-Jun-2024
19:31



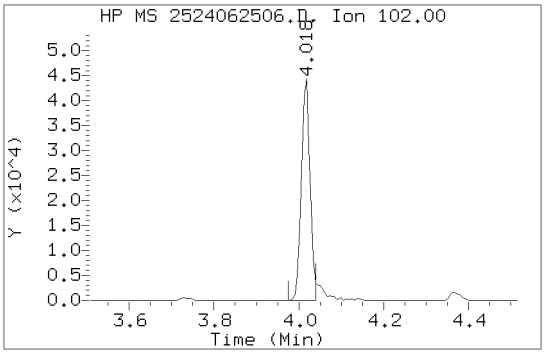
BEFORE

MASS
102
AREA
65943
HEIGHT
44392
25-Jun-2024
18:30



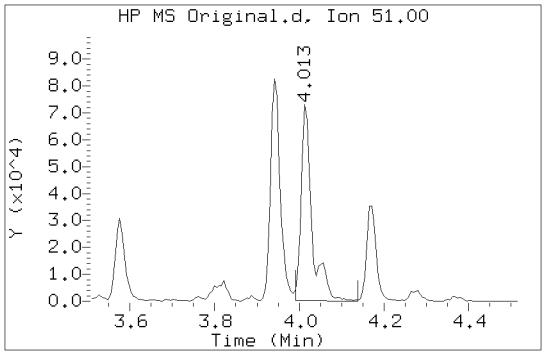
AFTER

MASS
102
AREA
63278
HEIGHT
44392
25-Jun-2024
19:31



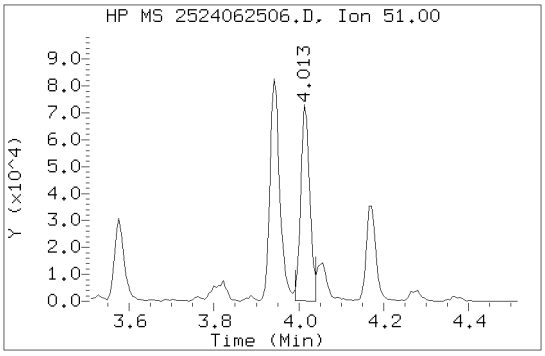
BEFORE

MASS
51
AREA
132627
HEIGHT
73037
25-Jun-2024
18:30



AFTER

MASS
51
AREA
109122
HEIGHT
73037
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:04
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062507.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062507.D
Lab Smp Id: 1237
Inj Date : 25-JUN-2024 12:24
Operator : ILY Inst ID: ms25.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	626482	50.0000	49.5188	
2	Chloromethane	50	1.644	1.645	(0.394)	540092	50.0000	48.8810	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	708017	50.0000	49.5047	
4	Bromomethane	94	1.923	1.923	(0.461)	348305	50.0000	50.8873	
5	Chloroethane	64	2.004	2.005	(0.481)	473353	50.0000	48.9920	
6	Pentane	41	2.092	2.092	(0.502)	429548	50.0000	48.1516	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	967150	50.0000	49.3694	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	977801	50.0000	53.9430	
9	Ethyl Ether	74	2.277	2.278	(0.546)	298493	50.0000	54.1514	
10	1,1-Dichloroethene	61	2.414	2.409	(0.579)	575051	50.0000	52.2802	
11	Freon 113	101	2.425	2.425	(0.581)	405953	50.0000	52.4723	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	1276822	50.0000	53.8113	
13	Iodomethane	127	2.506	2.507	(0.601)	202377	50.0000	47.4853(M)	I
14	Acrolein	56	2.599	2.600	(0.623)	464121	250.000	261.595(A)	
15	Isopropyl Alcohol	45	2.654	2.654	(0.636)	143259	250.000	246.986(A)	
16	3-Chloro-1-propene	41	2.676	2.676	(0.642)	502818	50.0000	52.4523	
17	Methylene Chloride	84	2.741	2.741	(0.657)	478779	50.0000	53.2878	
18	Acetone	58	2.752	2.752	(0.660)	251793	250.000	252.945(A)	
19	Methyl acetate	74	2.817	2.812	(0.676)	106383	50.0000	52.0435	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	585851	50.0000	54.3804	
21	Hexane	57	2.866	2.867	(0.687)	870351	50.0000	48.5594	

Data File: 2524062507.D
Report Date: 25-Jun-2024 19:32

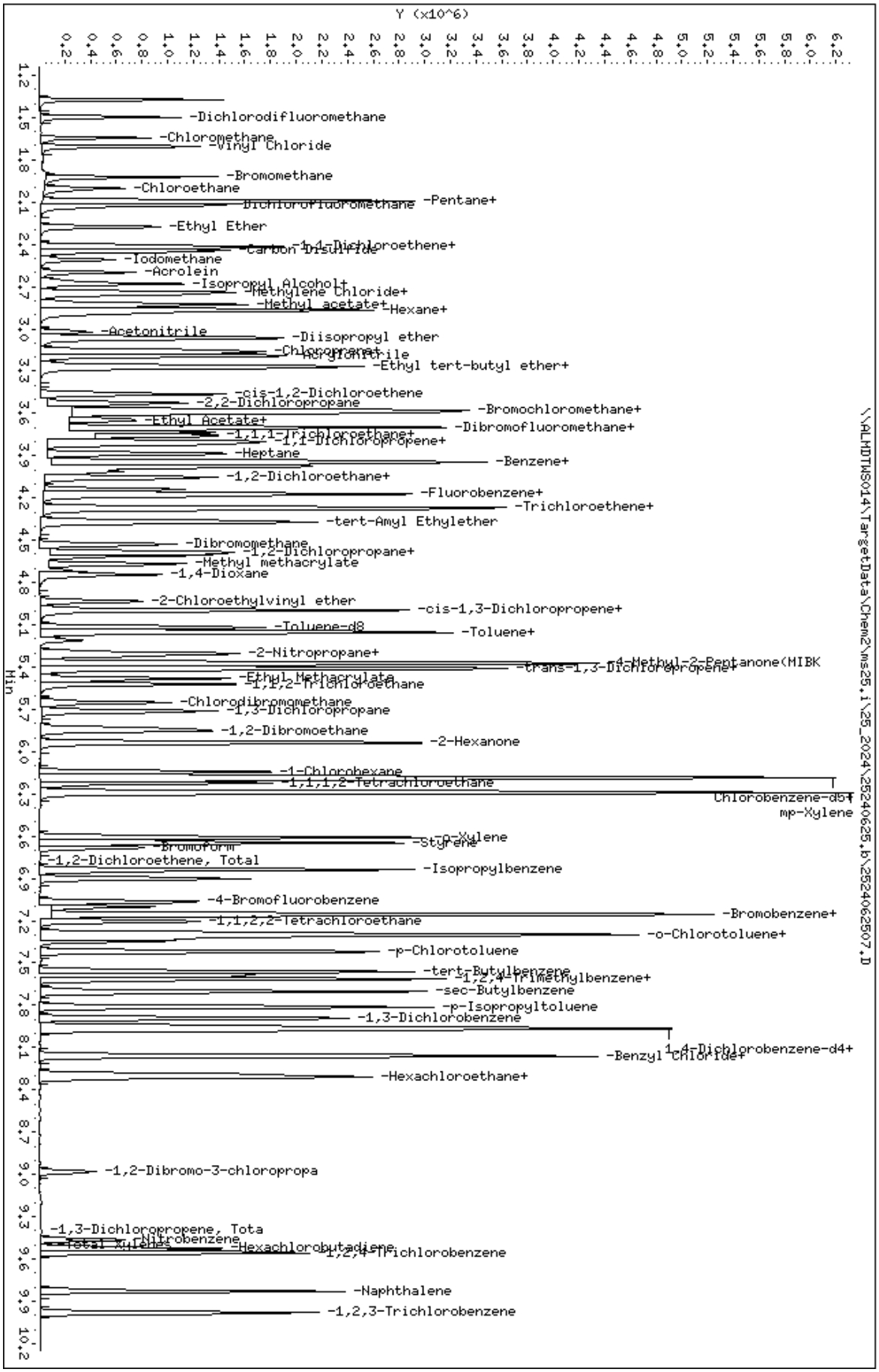
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1393184	50.0000	50.4055	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	269513	250.000	271.210(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	302780	250.000	272.006(AM)	I
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1308855	50.0000	54.7418	
	26 Chloroprene	53	3.156	3.156	(0.757)	670182	50.0000	55.2871	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	802466	50.0000	54.6742	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	1064988	250.000	278.611(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1408293	50.0000	55.4575	
	30 n-Propanol	41	3.265	3.260	(0.783)	237482	500.000	504.166(A)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	126310	50.0000	50.4145	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	591362	50.0000	54.1368	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	621193	50.0000	53.1030	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	268442	50.0000	56.9861	
	35 Cyclohexane	84	3.587	3.587	(0.860)	675442	50.0000	51.5333	
	36 Chloroform	83	3.598	3.598	(0.863)	859409	50.0000	54.2399	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	472909	50.0000	49.7769	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	476529	50.0000	54.1748	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	556541	50.0000	47.7742(M)	MP
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	270997	30.0000	30.0385	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	715886	250.000	266.220(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	676102	50.0000	54.8220	
	43 2-Butanone	72	3.761	3.767	(0.902)	342451	250.000	263.431(AM)	MP
	44 1,1-Dichloropropene	75	3.800	3.800	(0.911)	631378	50.0000	54.1229	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	375025	50.0000	49.9907(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	333893	50.0000	49.2649	
	47 Benzene	78	3.941	3.942	(0.945)	1864401	50.0000	51.9969	
	48 Propionitrile	54	3.941	3.942	(0.945)	402346	250.000	277.963(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	238979	50.0000	55.0754	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	1354755	50.0000	55.2670	
	54 Isobutyl alcohol	42	3.991	3.980	(0.957)	96464	500.000	437.479(AM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	275529	30.0000	28.9719(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	601015	50.0000	53.3210	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	203990	250.000	267.550(A)	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1143383	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	1061231	50.0000	47.8757	
	57 Trichloroethene	95	4.269	4.269	(1.024)	484631	50.0000	53.4046	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	739867	50.0000	51.7277	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	1054026	50.0000	49.3327	
	60 Dibromomethane	93	4.525	4.526	(1.085)	316536	50.0000	55.1767	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	467339	50.0000	54.1545	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	593498	50.0000	49.4511	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	375084	50.0000	54.9186	
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	176416	1250.00	1320.58(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	300617	50.0000	47.6165	
	66 cis-1,3-Dichloropropene	75	4.995	4.995	(0.809)	767185	50.0000	51.4196	
	67 Octane	85	5.000	5.000	(0.810)	282195	50.0000	52.0345	
$	68 Toluene-d8	98	5.115	5.120	(0.829)	1034239	30.0000	29.6246	
	69 Toluene	92	5.153	5.153	(0.835)	1143510	50.0000	51.6780	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	159860	250.000	289.804(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	593939	250.000	244.811(A)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	56995	250.000	243.015(A)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2330999	250.000	266.689(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	694418	50.0000	50.2673	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	434379	50.0000	53.9104	

Data File: 2524062507.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	687236	50.0000	51.5180	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	377593	50.0000	55.5399(M)	I
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	487189	50.0000	50.5479	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	754617	50.0000	56.1784	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	464742	50.0000	51.3501	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1586898	250.000	264.643(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	643857	50.0000	55.3101	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	440953	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1244553	50.0000	55.1920	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	661770	50.0000	50.1941	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	438151	50.0000	51.4526	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1603689	100.000	102.462	
	88 o-Xylene	106	6.610	6.610	(1.071)	773279	50.0000	51.5309	
	89 Styrene	104	6.648	6.648	(0.836)	1227060	50.0000	48.6117(M)	I
	90 Bromoform	173	6.681	6.686	(0.840)	330003	50.0000	46.3030	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1751429	50.0000	49.7675	
M	100 1,2-Dichloroethene, Total	61				1177213	100.000	108.517	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	333940	30.0000	28.2793	
	93 Bromobenzene	156	7.155	7.156	(0.900)	531635	50.0000	52.6787	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	543408	50.0000	52.6568	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	552178	50.0000	55.0487	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1435543	50.0000	52.8720	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1501540	50.0000	52.2803	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	171874	50.0000	53.1264	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	149889	50.0000	48.7036(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	1318356	50.0000	53.6064	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	375749	50.0000	54.7011	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	332675	50.0000	48.2392(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1510193	50.0000	49.6560	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	1923591	50.0000	54.1902	
	106 p-Isopropyltoluene	134	7.810	7.816	(0.982)	438683	50.0000	53.9663	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	913731	50.0000	53.7418	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	426848	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	937340	50.0000	52.8905	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	194577	50.0000	45.8459	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	391628	50.0000	51.5539	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	284589	50.0000	46.7465	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	869762	50.0000	53.7034	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	86909	50.0000	45.3439	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	289112	500.000	463.590(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	257277	50.0000	48.0265	
M	120 1,3-Dichloropropene, Total	75				1461603	100.000	101.687	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	580629	50.0000	54.1363	
M	121 Total Xylenes	106				2376968	150.000	153.993	
	118 Naphthalene	128	9.829	9.829	(1.236)	1514181	50.0000	48.0426	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	573042	50.0000	47.5666	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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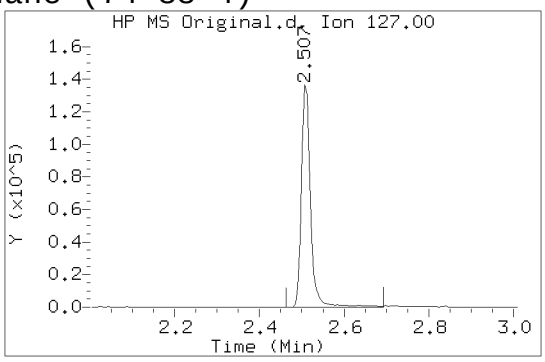
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Operator: ILY
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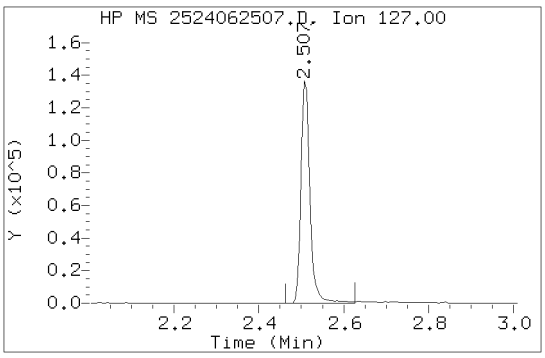
Iodomethane (74-88-4)

Reason Code: I

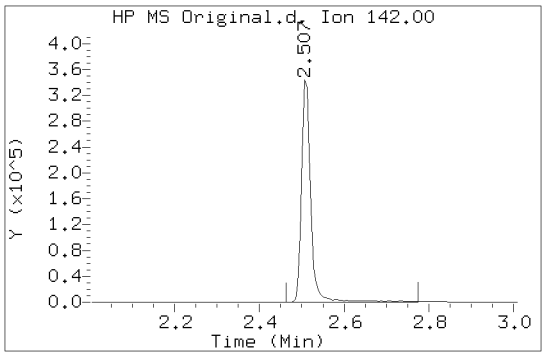
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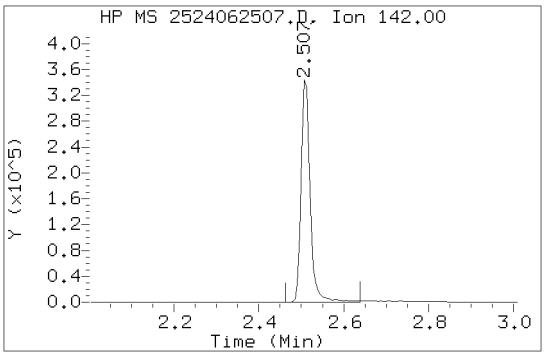
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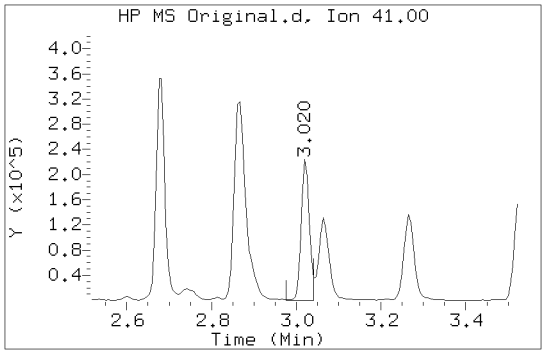
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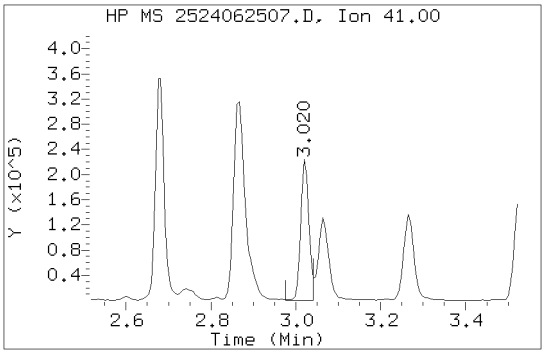
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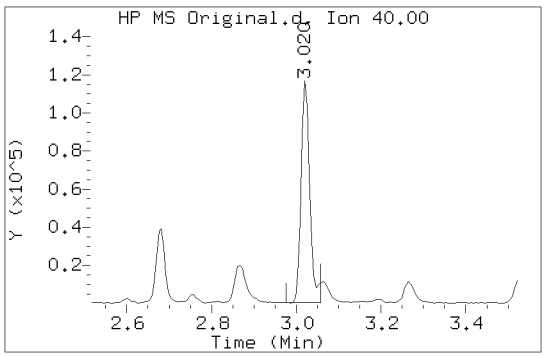
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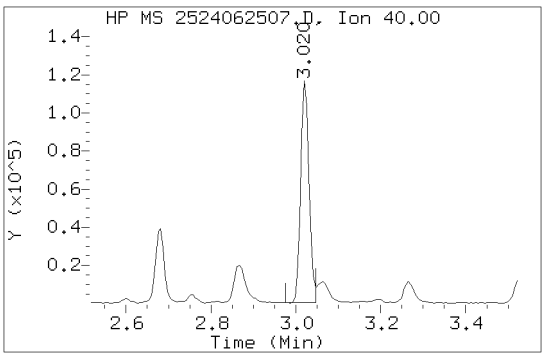
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AFTER
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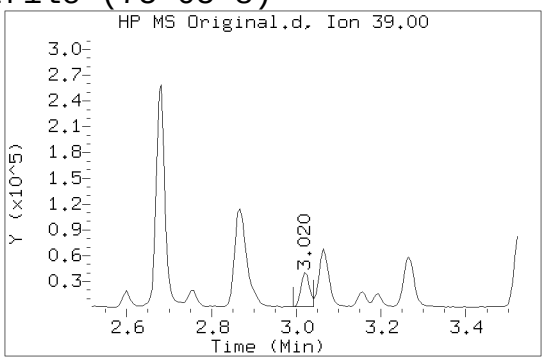


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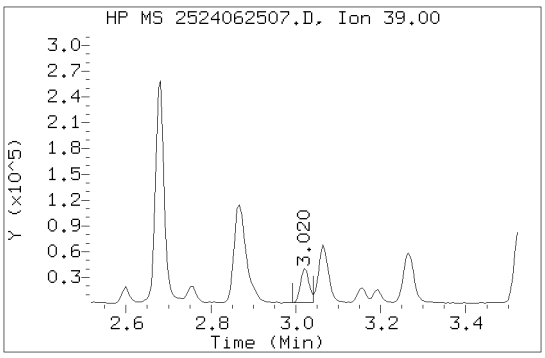
Acetonitrile (75-05-8)

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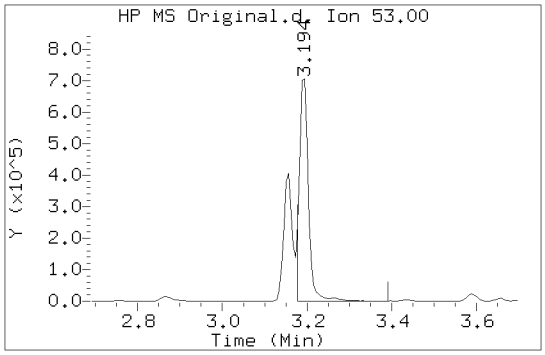
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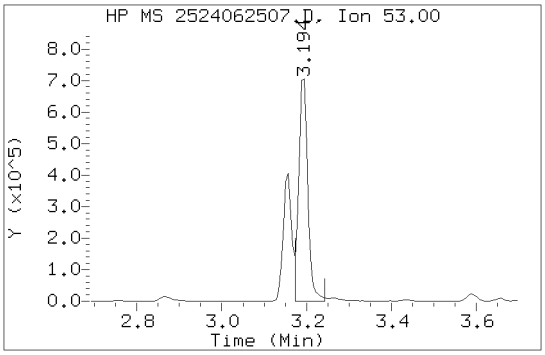
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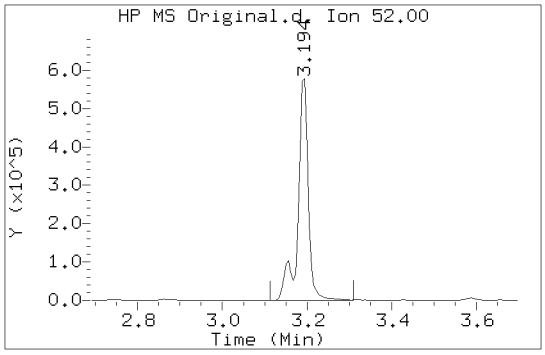
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25-Jun-2024
18:13



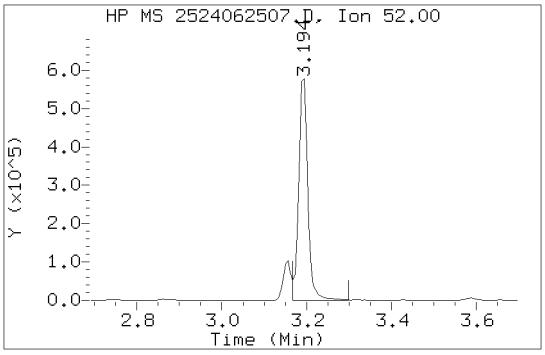
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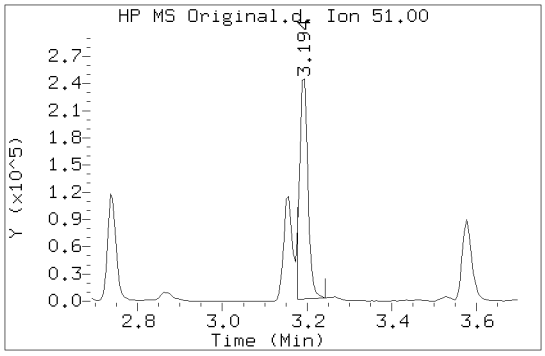
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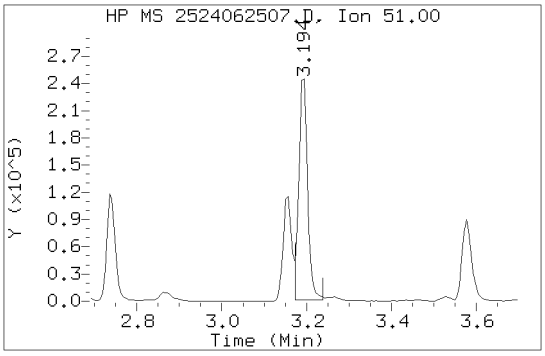
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AFTER
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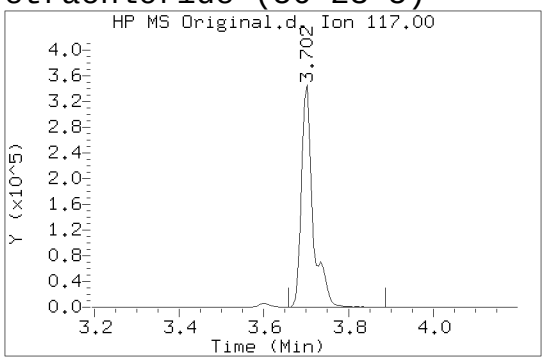


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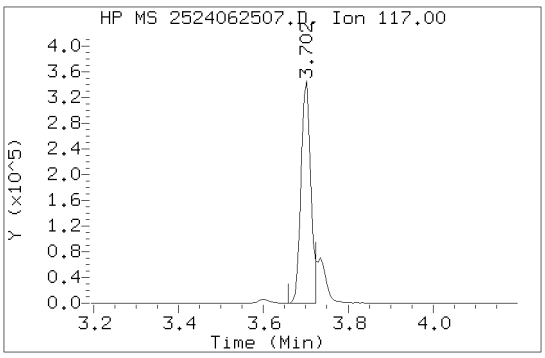
Carbon Tetrachloride (56-23-5)

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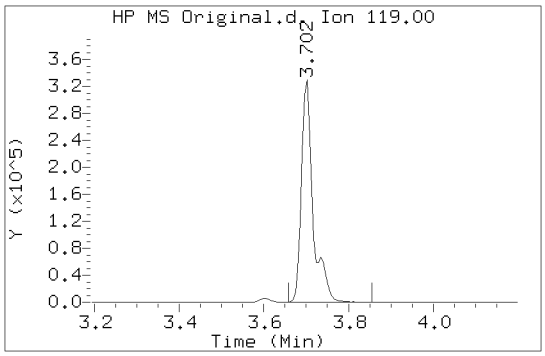
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25-Jun-2024
18:13



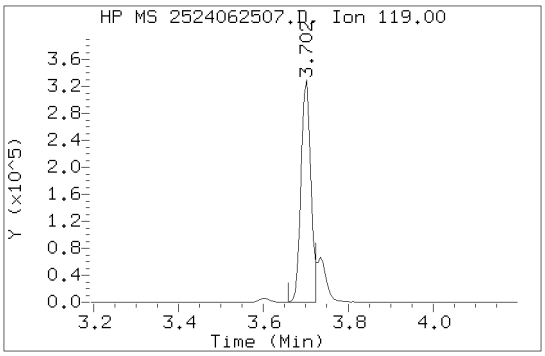
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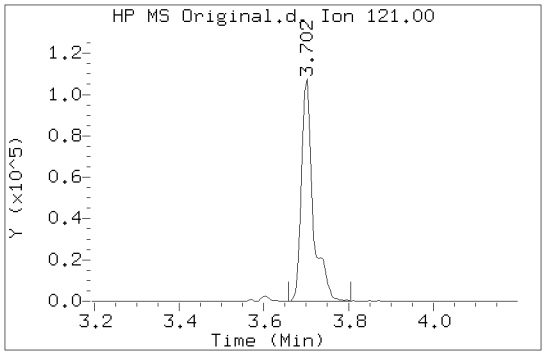
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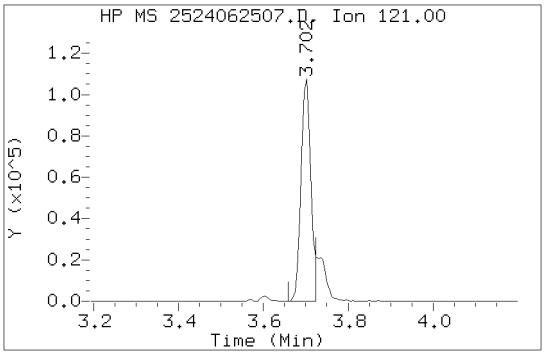
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BEFORE
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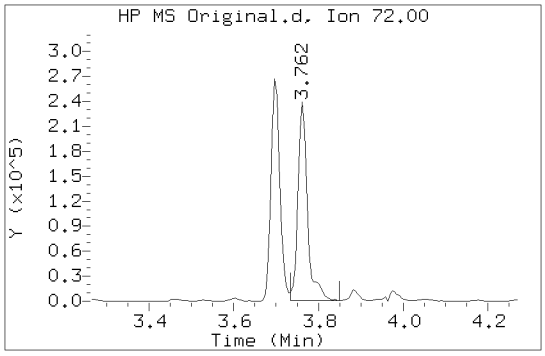
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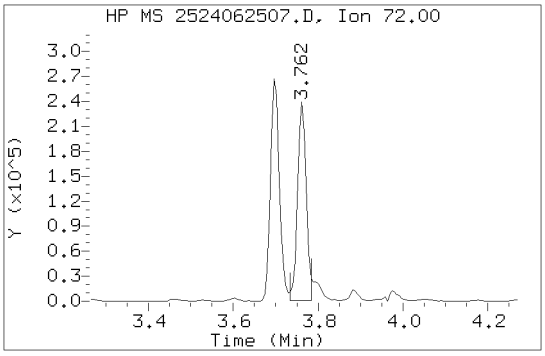
2-Butanone (78-93-3)

Reason Code: MP

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HEIGHT
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25-Jun-2024
18:13



AFTER
MASS
72
AREA
342451
HEIGHT
239051
25-Jun-2024
19:31

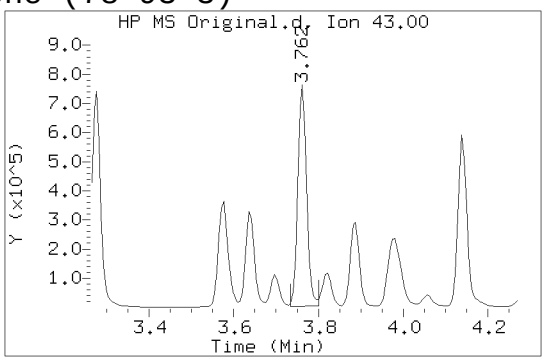


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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

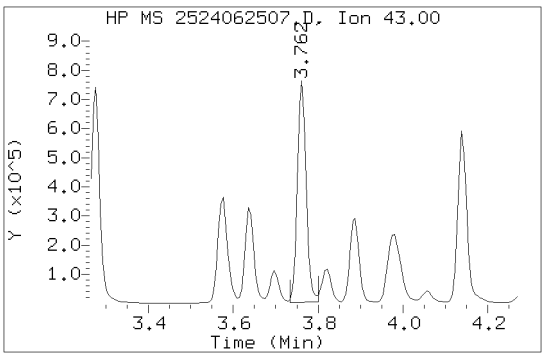
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
1100991
HEIGHT
759909
25-Jun-2024
18:13



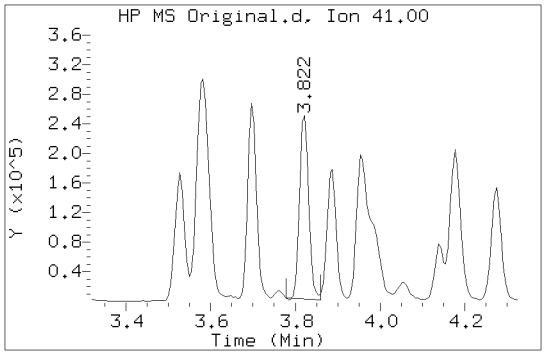
AFTER
MASS
43
AREA
1100991
HEIGHT
759909
25-Jun-2024
19:31



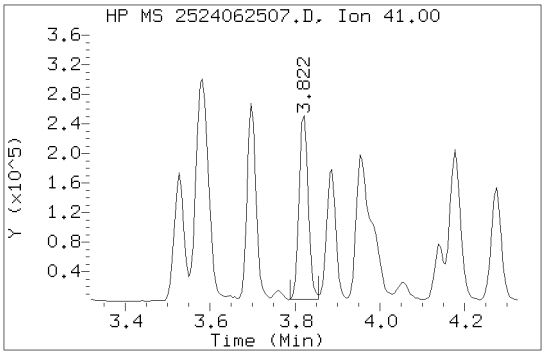
1-Chlorobutane (109-69-3)

Reason Code: I

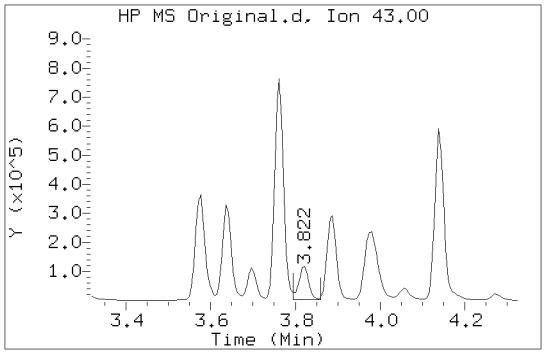
BEFORE
MASS
41
AREA
374876
HEIGHT
248504
25-Jun-2024
18:13



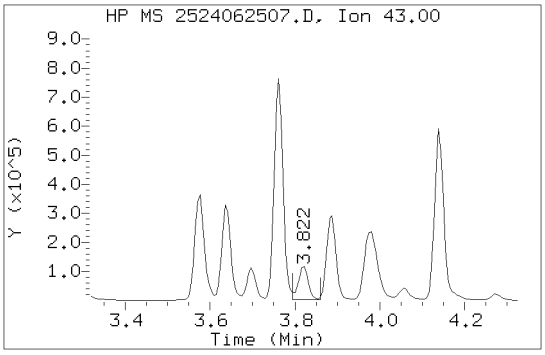
AFTER
MASS
41
AREA
375025
HEIGHT
248948
25-Jun-2024
19:31



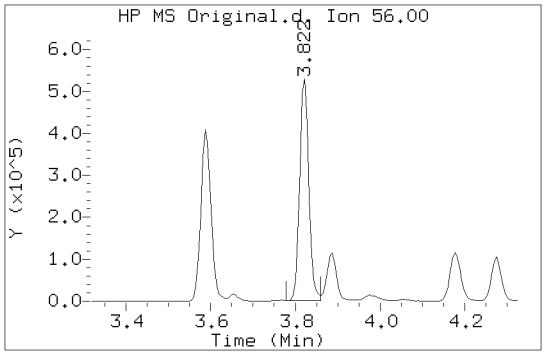
BEFORE
MASS
43
AREA
195215
HEIGHT
115255
25-Jun-2024
18:13



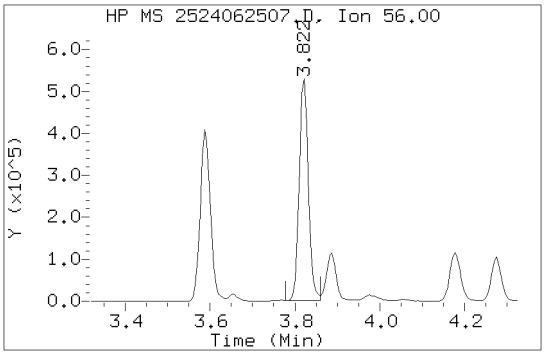
AFTER
MASS
43
AREA
195215
HEIGHT
115255
25-Jun-2024
19:31



BEFORE
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
18:13



AFTER
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
19:31

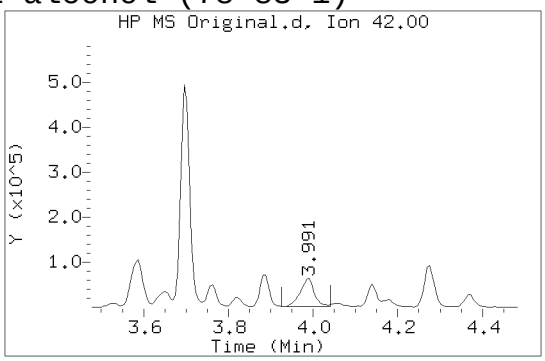


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LabSampID : 1237

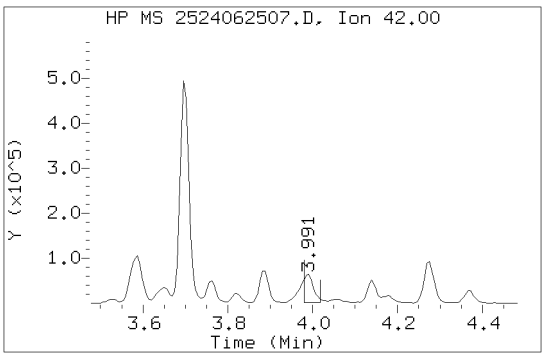
Isobutyl alcohol (78-83-1)

Reason Code: MP

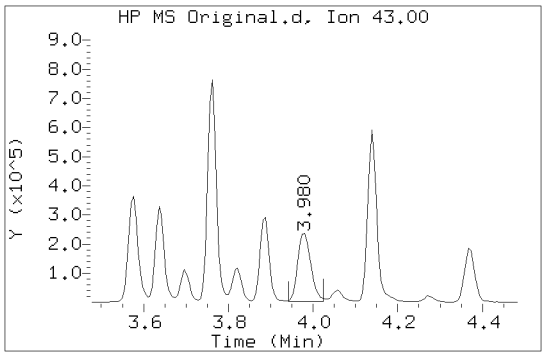
BEFORE
MASS
42
AREA
146510
HEIGHT
62573
25-Jun-2024
18:13



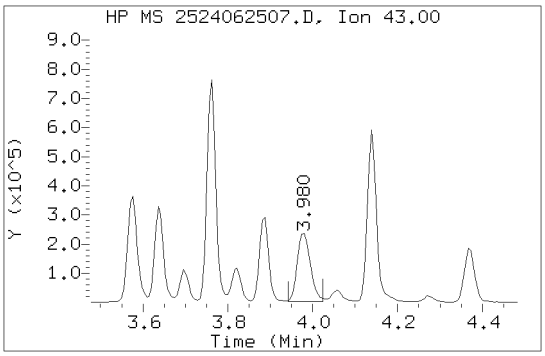
AFTER
MASS
42
AREA
96464
HEIGHT
61948
25-Jun-2024
19:31



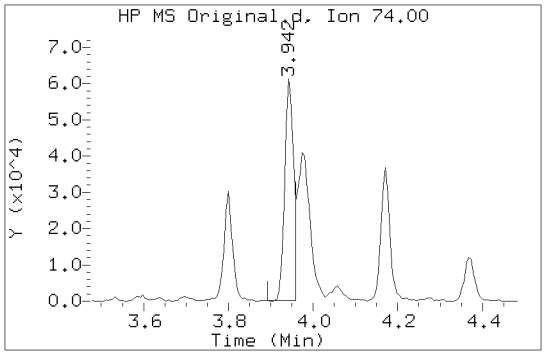
BEFORE
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
18:13



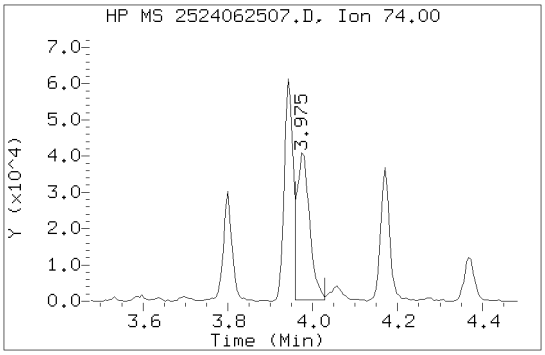
AFTER
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
89775
HEIGHT
61104
25-Jun-2024
18:13



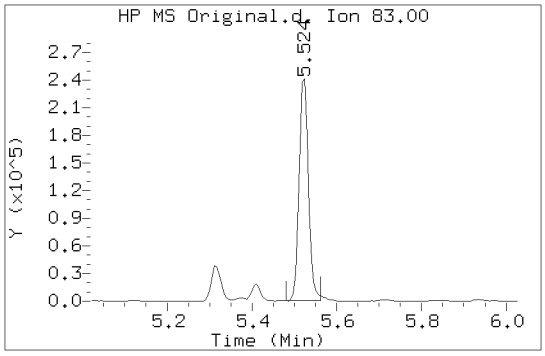
AFTER
MASS
74
AREA
88150
HEIGHT
40518
25-Jun-2024
19:31



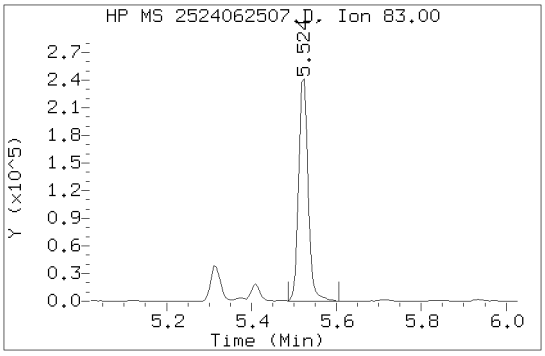
1,1,2-Trichloroethane (79-00-5)

Reason Code: I

BEFORE
MASS
83
AREA
370462
HEIGHT
240602
25-Jun-2024
18:13



AFTER
MASS
83
AREA
377593
HEIGHT
241170
25-Jun-2024
19:31

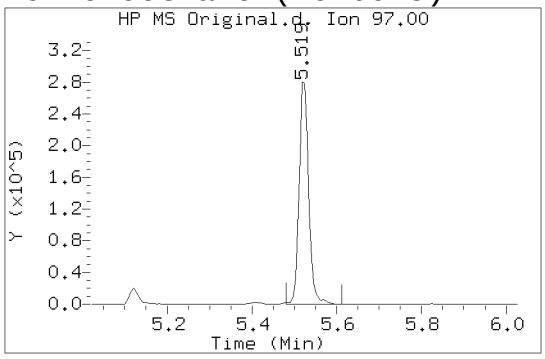


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LabSampID : 1237

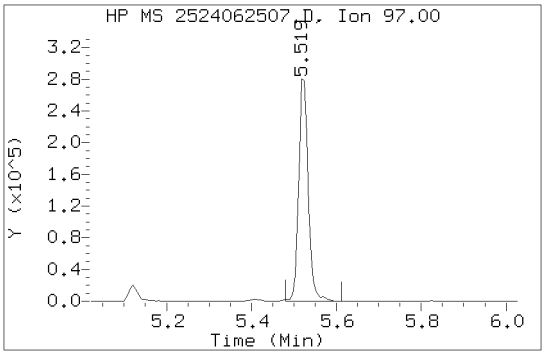
1,1,2-Trichloroethane (79-00-5)

Reason Code: I

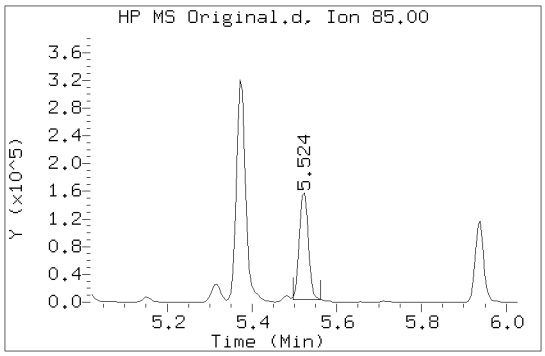
BEFORE
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
18:13



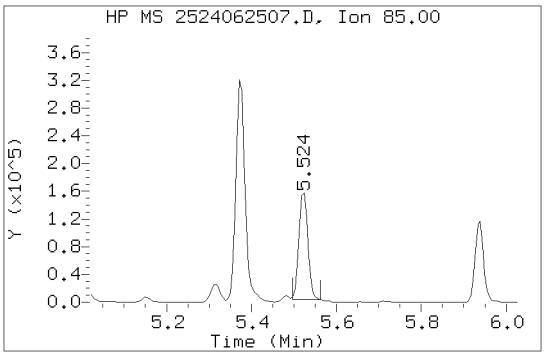
AFTER
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
19:31



BEFORE
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
18:13



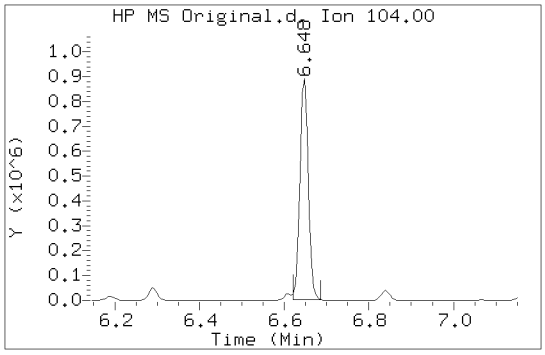
AFTER
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
19:31



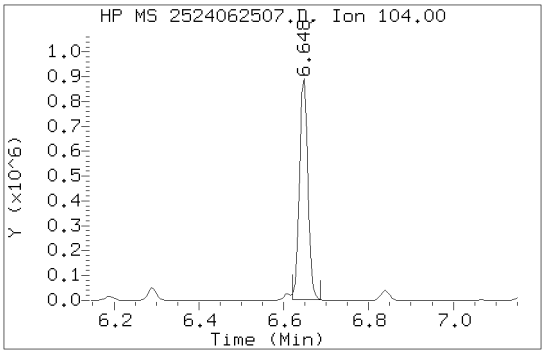
Styrene (100-42-5)

Reason Code: I

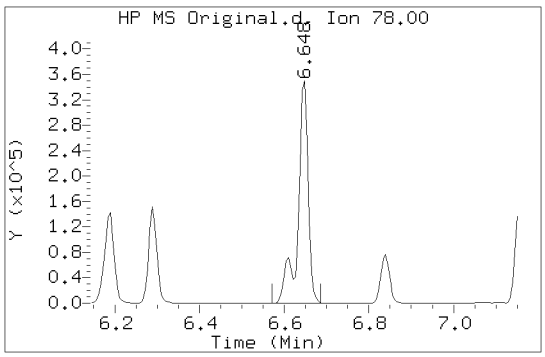
BEFORE
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
18:13



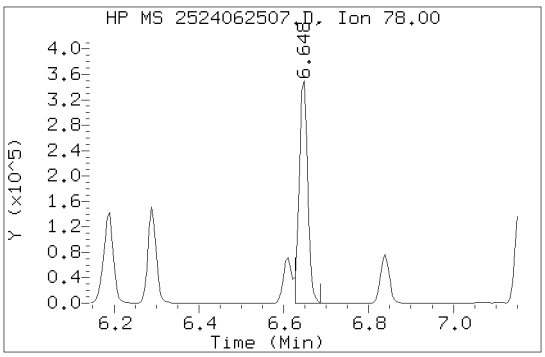
AFTER
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
590646
HEIGHT
349696
25-Jun-2024
18:13



AFTER
MASS
78
AREA
490491
HEIGHT
349493
25-Jun-2024
19:31

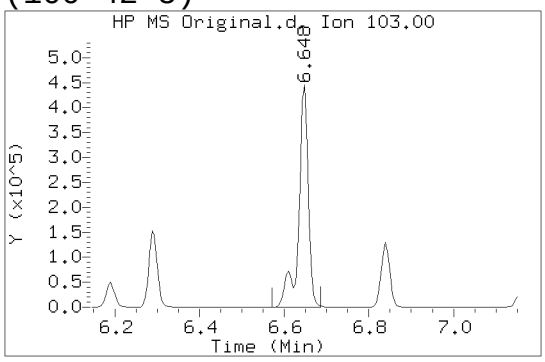


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InstruID : ms25.i
LabSampID : 1237

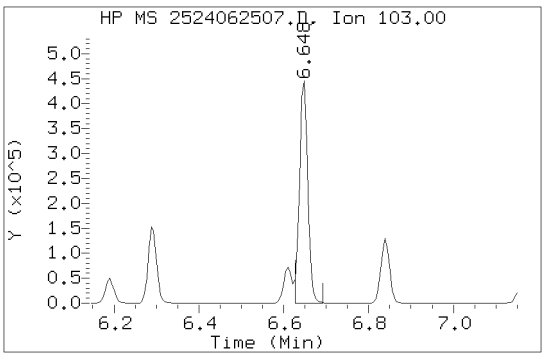
Styrene (100-42-5)

Reason Code: I

BEFORE
MASS
103
AREA
706899
HEIGHT
445440
25-Jun-2024
18:13



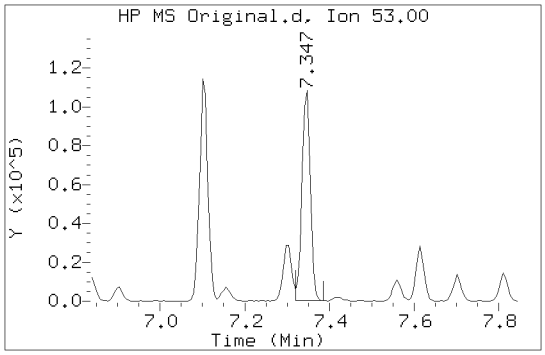
AFTER
MASS
103
AREA
608627
HEIGHT
445294
25-Jun-2024
19:31



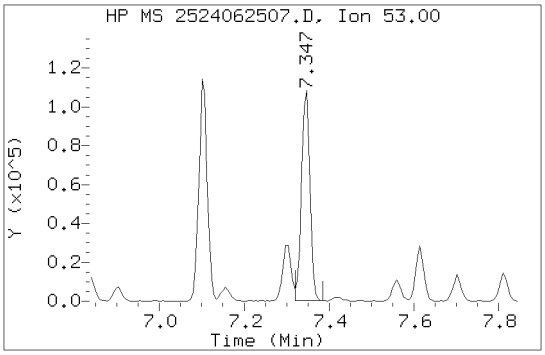
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

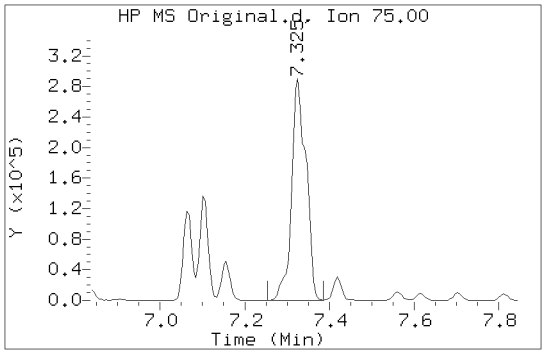
BEFORE
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
18:13



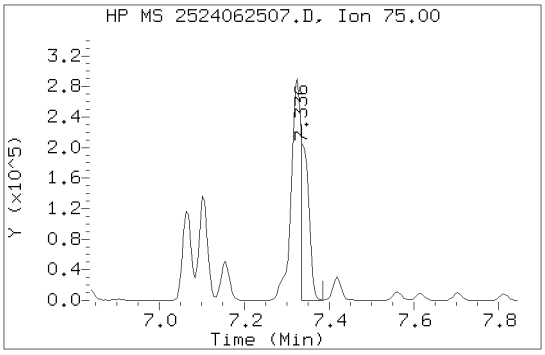
AFTER
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
19:31



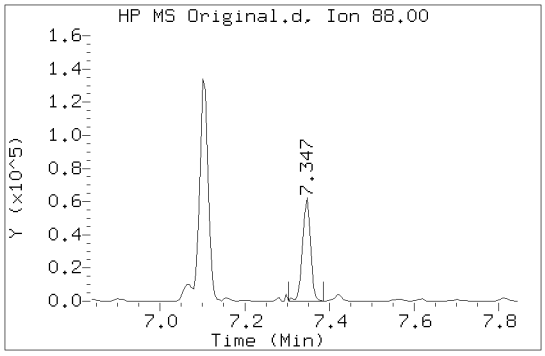
BEFORE
MASS
75
AREA
689042
HEIGHT
290112
25-Jun-2024
18:13



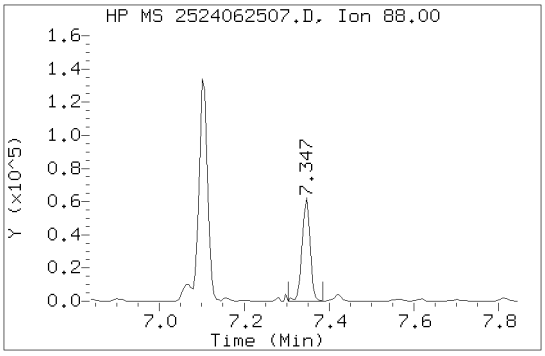
AFTER
MASS
75
AREA
264959
HEIGHT
205766
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
18:13



AFTER
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
19:31

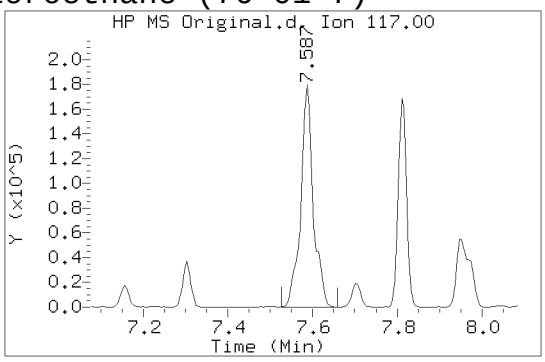


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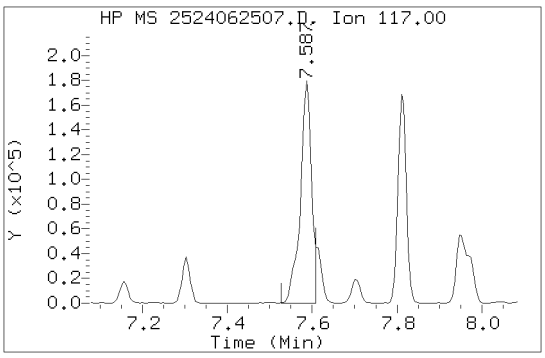
Pentachloroethane (76-01-7)

Reason Code: MP

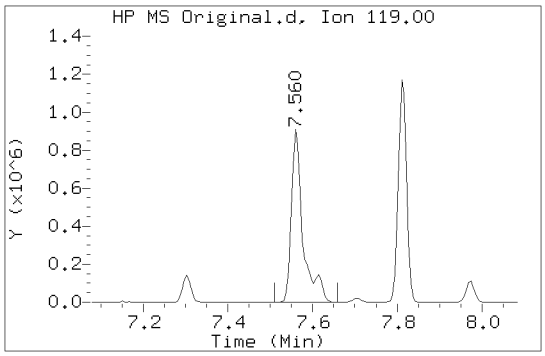
BEFORE
MASS
117
AREA
368716
HEIGHT
179648
25-Jun-2024
18:13



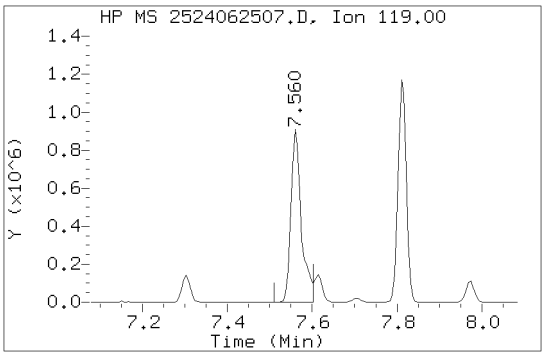
AFTER
MASS
117
AREA
332675
HEIGHT
179648
25-Jun-2024
19:31



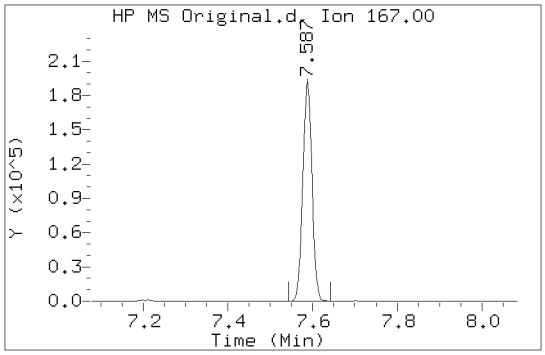
BEFORE
MASS
119
AREA
1737584
HEIGHT
911232
25-Jun-2024
18:13



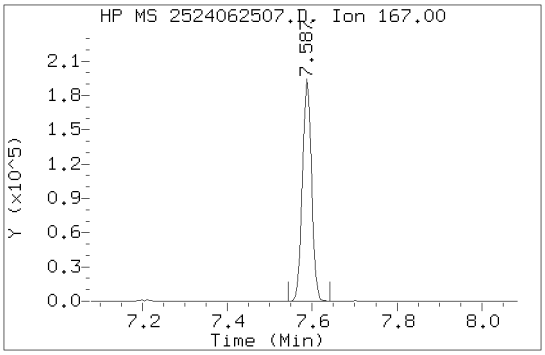
AFTER
MASS
119
AREA
1572296
HEIGHT
911232
25-Jun-2024
19:31



BEFORE
MASS
167
AREA
291176
HEIGHT
194496
25-Jun-2024
18:13



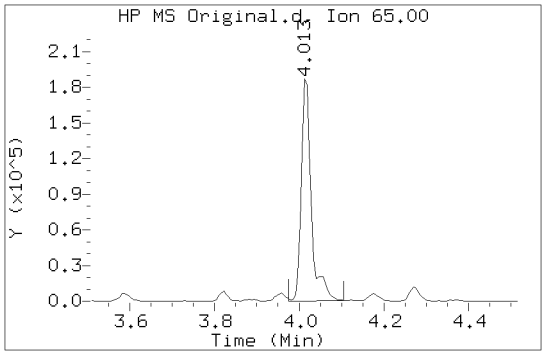
AFTER
MASS
167
AREA
291176
HEIGHT
194496
25-Jun-2024
19:31



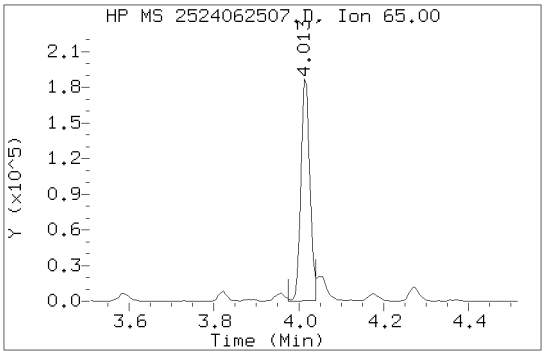
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
306387
HEIGHT
186600
25-Jun-2024
18:13



AFTER
MASS
65
AREA
275529
HEIGHT
186601
25-Jun-2024
19:31



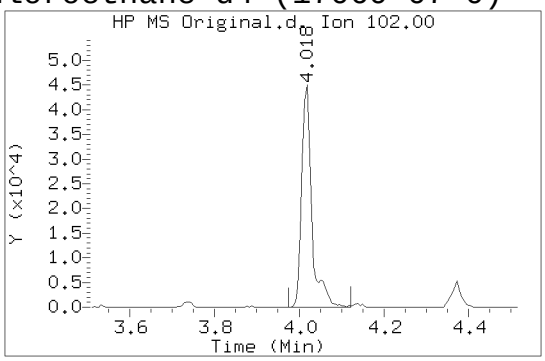
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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

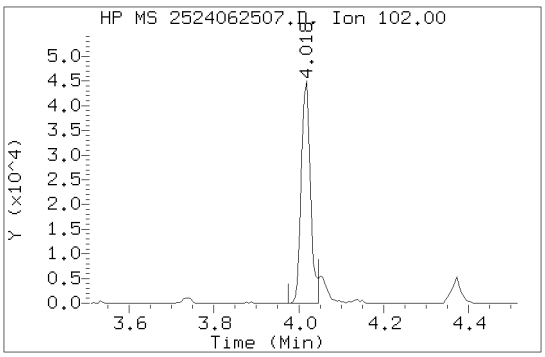
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HEIGHT
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25-Jun-2024
18:13



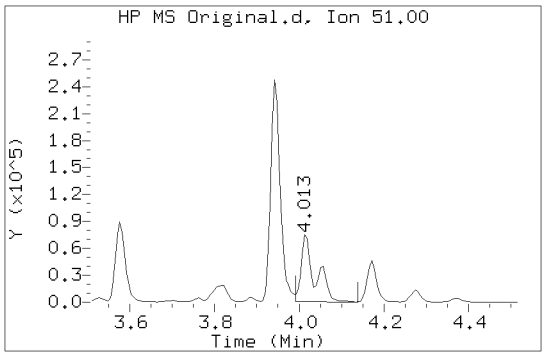
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25-Jun-2024
19:31



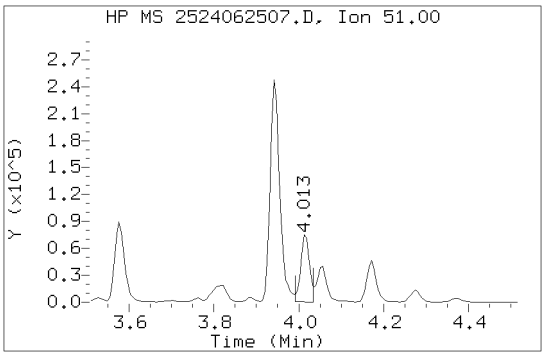
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25-Jun-2024
18:13



AFTER

MASS
51
AREA
110484
HEIGHT
75164
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:24
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062508.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062508.D
Lab Smp Id: 1238
Inj Date : 25-JUN-2024 12:45
Operator : ILY Inst ID: ms25.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	1280711	100.000	108.035	
2 Chloromethane	50	1.644	1.645	(0.394)	1078871	100.000	104.339	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	1417886	100.000	105.803	
4 Bromomethane	94	1.922	1.923	(0.461)	683038	100.000	106.980	
5 Chloroethane	64	2.004	2.005	(0.481)	939865	100.000	104.159	
6 Pentane	41	2.091	2.092	(0.502)	877950	100.000	106.282	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	1936633	100.000	105.503	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	1909414	100.000	112.418	
9 Ethyl Ether	74	2.277	2.278	(0.546)	577826	100.000	111.873	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	1162374	100.000	112.779	
11 Freon 113	101	2.424	2.425	(0.581)	828017	100.000	114.221	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	2554462	100.000	114.893	
13 Iodomethane	127	2.512	2.507	(0.602)	423659	100.000	105.457(M)	MP
14 Acrolein	56	2.599	2.600	(0.623)	917167	500.000	551.695(A)	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	289391	500.000	536.134(A)	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	973704	100.000	108.215	
17 Methylene Chloride	84	2.741	2.741	(0.657)	917372	100.000	108.966	
18 Acetone	58	2.757	2.752	(0.661)	490337	500.000	525.690(A)	
19 Methyl acetate	74	2.812	2.812	(0.674)	195422	100.000	102.434	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	1142895	100.000	113.218	
21 Hexane	57	2.866	2.867	(0.687)	1762469	100.000	105.284	

Data File: 2524062508.D
Report Date: 25-Jun-2024 19:32

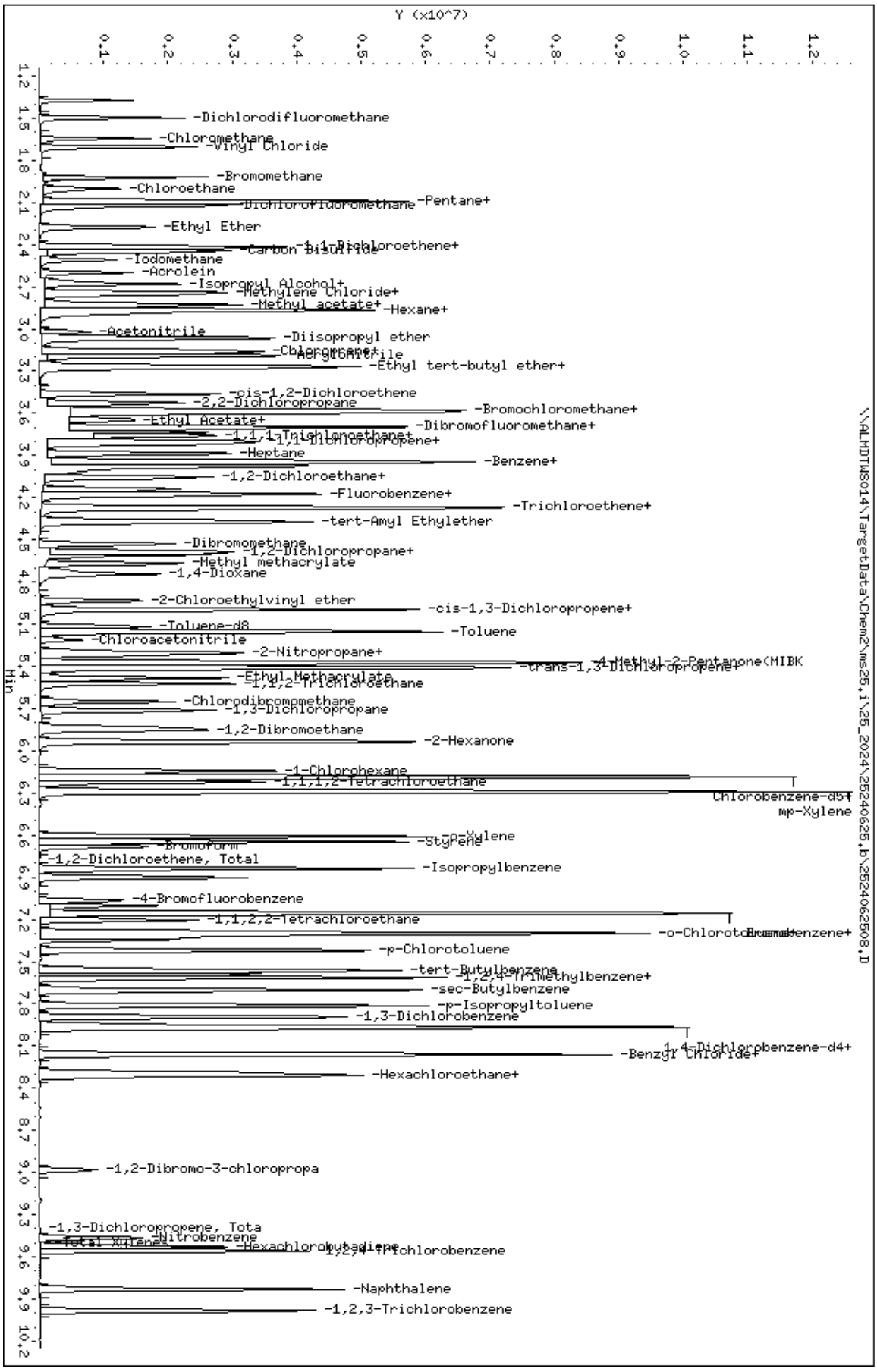
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	2707334	100.000	104.288	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	531352	500.000	570.639(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	586835	500.000	562.628(A)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	2528853	100.000	112.877	
	26 Chloroprene	53	3.155	3.156	(0.757)	1314924	100.000	115.767	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	1557064	100.000	113.218	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	2086695	500.000	582.594(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	2763916	100.000	116.157	
	30 n-Propanol	41	3.265	3.260	(0.783)	457445	1000.00	1036.42(A)	
	31 Vinyl Acetate	86	3.275	3.276	(0.785)	244750	100.000	103.846	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	1151450	100.000	112.496	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	1243832	100.000	113.477	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	505828	100.000	114.597	
	35 Cyclohexane	84	3.586	3.587	(0.860)	1388288	100.000	113.040	
	36 Chloroform	83	3.597	3.598	(0.863)	1699897	100.000	114.497	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	938737	100.000	105.546	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	947622	100.000	114.973	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	1141242	100.000	104.056(M)	MP
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	259811	30.0000	30.7343	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	1387430	500.000	550.631(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	1344421	100.000	116.341	
	43 2-Butanone	72	3.761	3.767	(0.902)	680917	500.000	559.005(AM)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	1236081	100.000	113.082	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	750558	100.000	106.774(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	692684	100.000	109.073	
	47 Benzene	78	3.941	3.942	(0.945)	3618340	100.000	107.696	
	48 Propionitrile	54	3.941	3.942	(0.945)	774353	500.000	570.925(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	465553	100.000	114.504	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	2638153	100.000	114.857	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	211992	1000.00	1020.63(AQM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	268195	30.0000	30.0964(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	1135084	100.000	107.472	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	401168	500.000	561.534(A)	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1071368	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	2168082	100.000	106.165	
	57 Trichloroethene	95	4.268	4.269	(1.024)	928864	100.000	109.238	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	1513087	100.000	108.597	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	2075694	100.000	103.393	
	60 Dibromomethane	93	4.525	4.526	(1.085)	615591	100.000	114.519	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	916829	100.000	113.382	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	1172803	100.000	103.923	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	760558	100.000	118.844	
	64 1,4-Dioxane	88	4.721	4.722	(1.132)	341622	2500.00	2729.14(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	612756	100.000	103.147	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	1499905	100.000	102.916	
	67 Octane	85	5.000	5.000	(0.810)	586960	100.000	111.106	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004893	30.0000	29.5486	
	69 Toluene	92	5.152	5.153	(0.835)	2215702	100.000	102.793	
	70 Chloroacetonitrile	75	5.212	5.208	(0.844)	313617	500.000	583.645(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	1224339	500.000	515.968(A)	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	120735	500.000	526.185(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	4540988	500.000	532.322(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	1390540	100.000	103.018	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	861759	100.000	109.793	

Data File: 2524062508.D
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	1354483	100.000	103.911	
	77 1,1,2-Trichloroethane	83	5.523	5.524	(0.895)	726717	100.000	109.731	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	980105	100.000	103.998	
	79 1,3-Dichloropropane	76	5.714	5.710	(0.926)	1471130	100.000	112.429	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	921715	100.000	104.304	
	81 2-Hexanone	43	5.933	5.933	(0.961)	3096661	500.000	529.025(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	1297909	100.000	114.457	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	429544	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	2443576	100.000	111.243	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	1327438	100.000	103.500	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	867838	100.000	104.290	
	87 mp-Xylene	106	6.287	6.288	(1.019)	3168696	200.000	208.645(A)	
	88 o-Xylene	106	6.609	6.610	(1.071)	1516109	100.000	103.716	
	89 Styrene	104	6.648	6.648	(0.836)	2454318	100.000	102.297(M)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	690099	100.000	101.763	
	91 Isopropylbenzene	105	6.838	6.839	(0.860)	3465736	100.000	103.792	
M	100 1,2-Dichloroethene, Total	61				2294345	200.000	225.714	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	346523	30.0000	30.9724	
	93 Bromobenzene	156	7.155	7.156	(0.900)	1061383	100.000	111.003	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	1084898	100.000	110.958	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	1083239	100.000	113.982	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	2871759	100.000	111.635	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	3015928	100.000	110.832	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	340852	100.000	111.201	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	297095	100.000	101.573(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	2569291	100.000	110.266	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	733804	100.000	112.751	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	667170	100.000	101.782(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	2964649	100.000	103.049	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	3807940	100.000	113.225	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	882856	100.000	114.632	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	1788974	100.000	111.056	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	404418	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	1841285	100.000	109.659	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	405519	100.000	100.284(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	788569	100.000	109.565	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	590317	100.000	101.880	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	1716708	100.000	111.877	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	187226	100.000	102.574	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	699975	1000.00	1037.49(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	520622	100.000	102.290	
M	120 1,3-Dichloropropene, Total	75				2890445	200.000	205.934	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	1183404	100.000	116.457	
M	121 Total Xylenes	106				4684805	300.000	312.362	
	118 Naphthalene	128	9.829	9.829	(1.236)	3095315	100.000	103.286	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	1155326	100.000	100.890	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
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-Nitrobenzene
-Total Xylenes
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-Naphthalene
-1,2,3-Trichlorobenzene
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Date : 25-JUN-2024 12:45
Client ID:
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Instrument: ms25,i
Operator: ILY
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Page 1

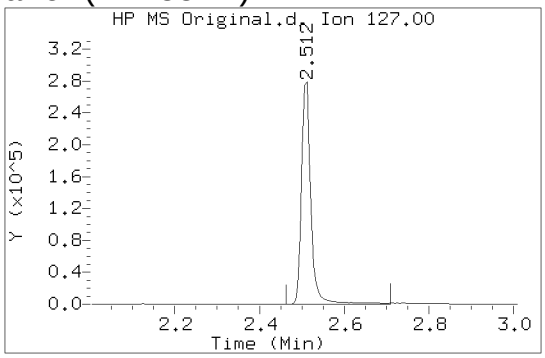
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LabSampID : 1238

Iodomethane (74-88-4)

Reason Code: MP

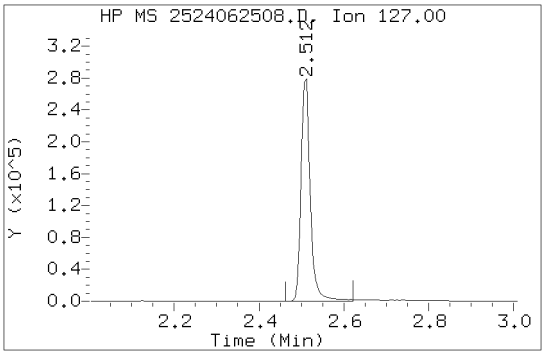
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25-Jun-2024
18:20



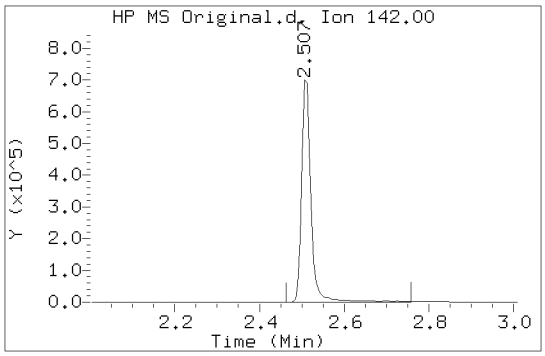
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25-Jun-2024
19:31



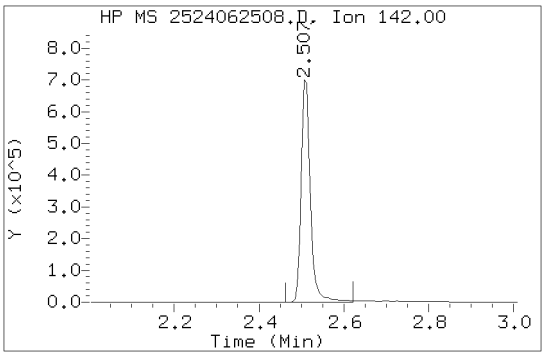
BEFORE

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25-Jun-2024
18:20



AFTER

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HEIGHT
700288
25-Jun-2024
19:31

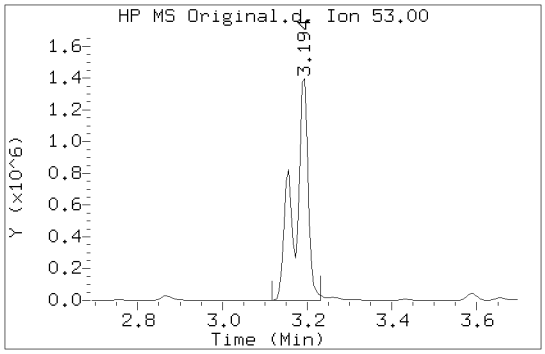


Acrylonitrile (107-13-1)

Reason Code: MP

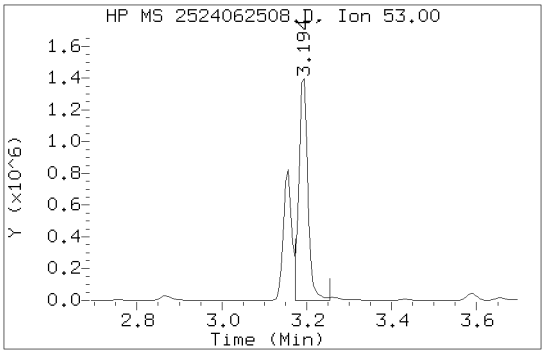
BEFORE

MASS
53
AREA
3146294
HEIGHT
1396433
25-Jun-2024
18:20



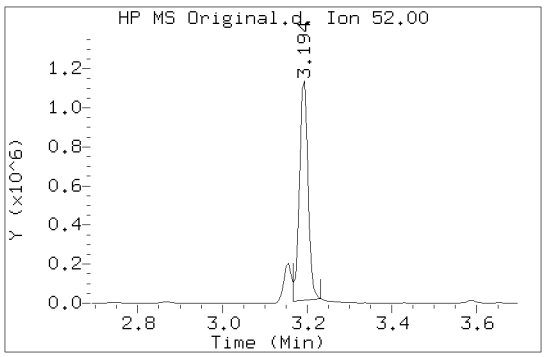
AFTER

MASS
53
AREA
2086695
HEIGHT
1396088
25-Jun-2024
19:31



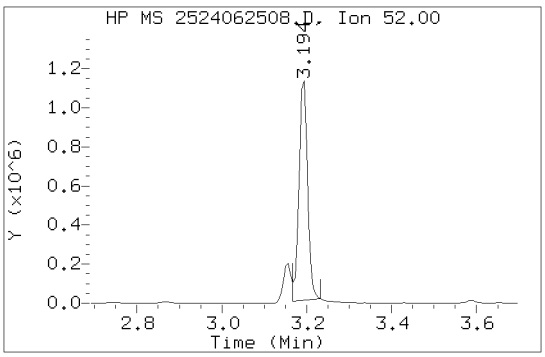
BEFORE

MASS
52
AREA
1590847
HEIGHT
1122482
25-Jun-2024
18:20



AFTER

MASS
52
AREA
1590847
HEIGHT
1122482
25-Jun-2024
19:31



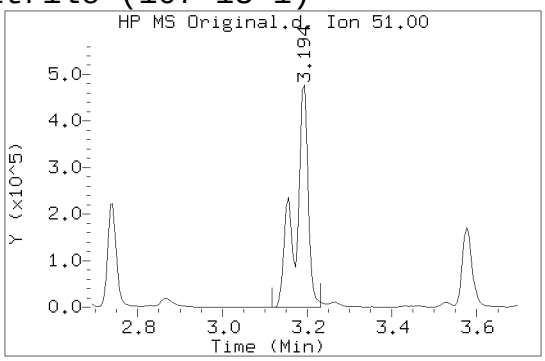
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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

Acrylonitrile (107-13-1)

Reason Code: MP

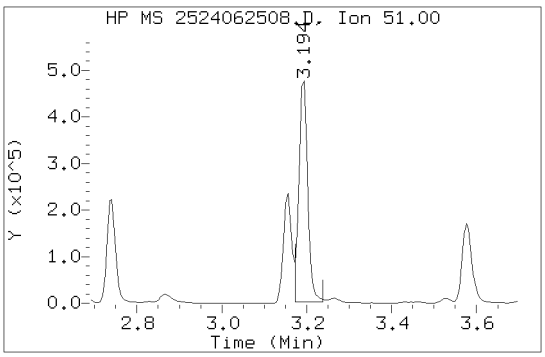
BEFORE

MASS
51
AREA
1015921
HEIGHT
477632
25-Jun-2024
18:20



AFTER

MASS
51
AREA
691823
HEIGHT
474483
25-Jun-2024
19:31

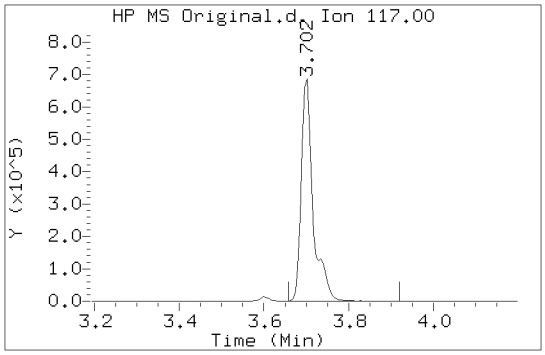


Carbon Tetrachloride (56-23-5)

Reason Code: MP

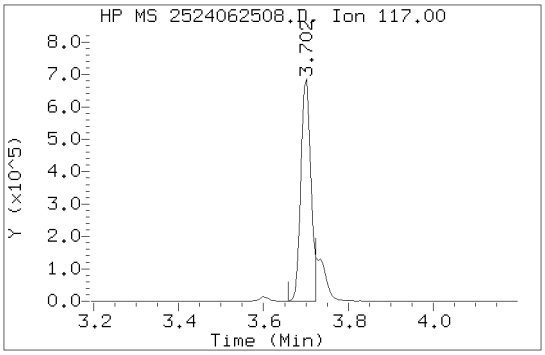
BEFORE

MASS
117
AREA
1340898
HEIGHT
685952
25-Jun-2024
18:20



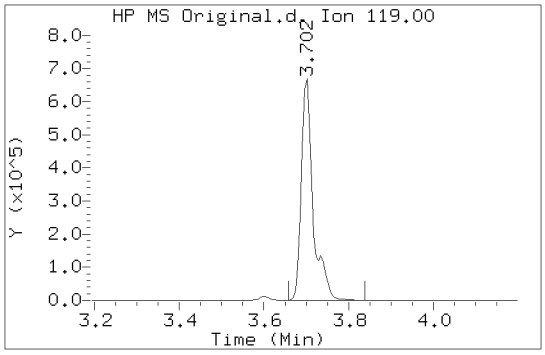
AFTER

MASS
117
AREA
1141242
HEIGHT
685952
25-Jun-2024
19:31



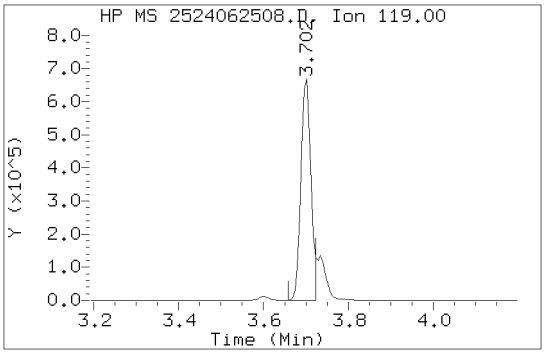
BEFORE

MASS
119
AREA
1300214
HEIGHT
669237
25-Jun-2024
18:20



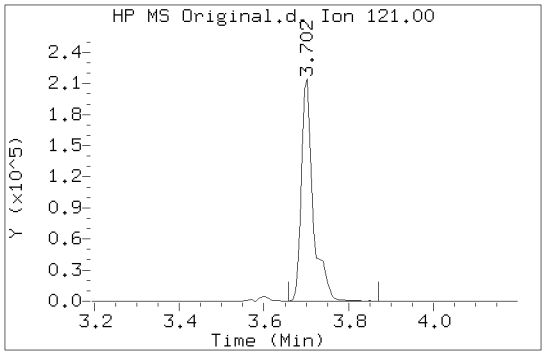
AFTER

MASS
119
AREA
1108054
HEIGHT
669237
25-Jun-2024
19:31



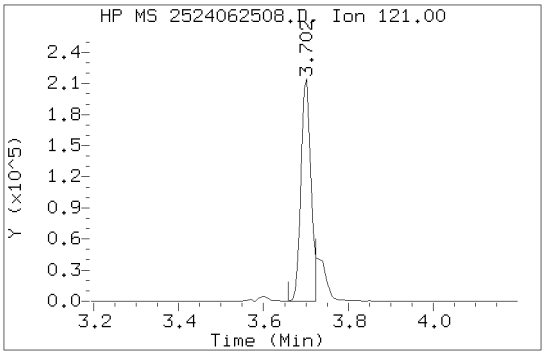
BEFORE

MASS
121
AREA
416014
HEIGHT
214464
25-Jun-2024
18:20



AFTER

MASS
121
AREA
352724
HEIGHT
214464
25-Jun-2024
19:31

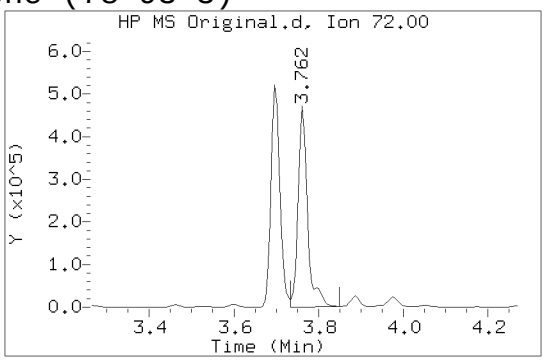


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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

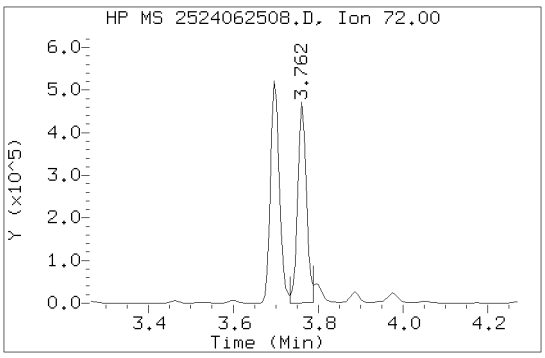
2-Butanone (78-93-3)

Reason Code: MP

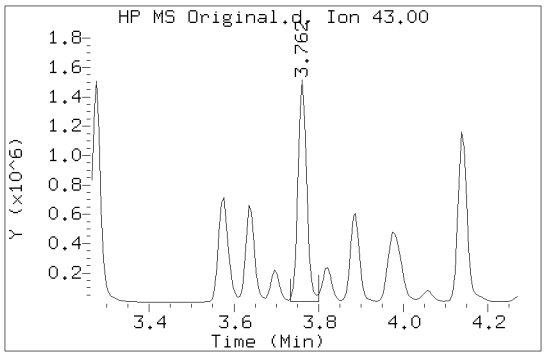
BEFORE
MASS
72
AREA
734461
HEIGHT
471672
25-Jun-2024
18:20



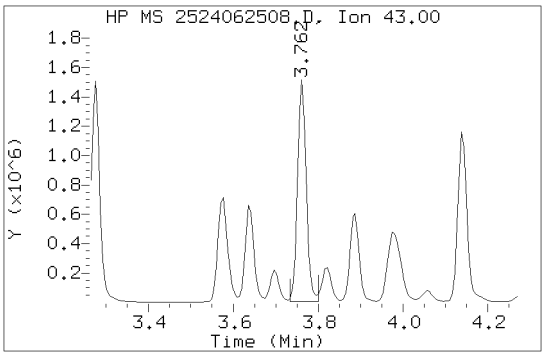
AFTER
MASS
72
AREA
680917
HEIGHT
471673
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
2163935
HEIGHT
1509778
25-Jun-2024
18:20



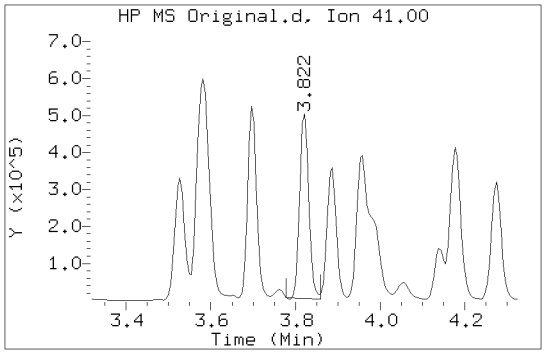
AFTER
MASS
43
AREA
2163935
HEIGHT
1509778
25-Jun-2024
19:31



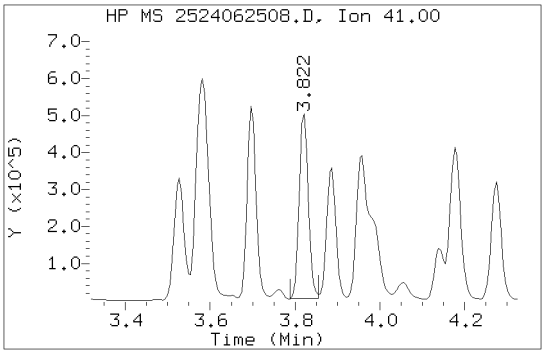
1-Chlorobutane (109-69-3)

Reason Code: I

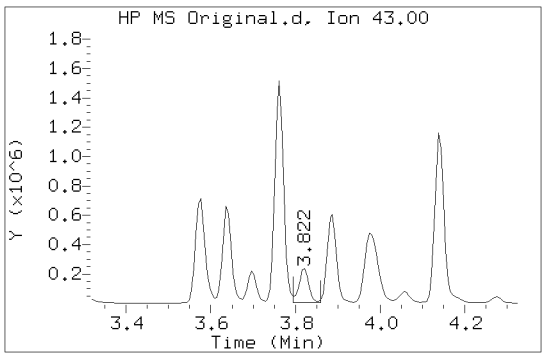
BEFORE
MASS
41
AREA
752135
HEIGHT
498573
25-Jun-2024
18:20



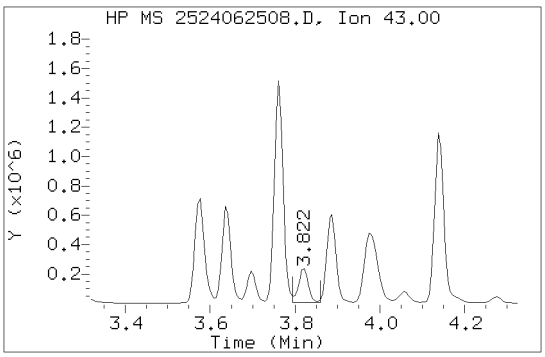
AFTER
MASS
41
AREA
750558
HEIGHT
499132
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
385549
HEIGHT
231936
25-Jun-2024
18:20



AFTER
MASS
43
AREA
385549
HEIGHT
231936
25-Jun-2024
19:31

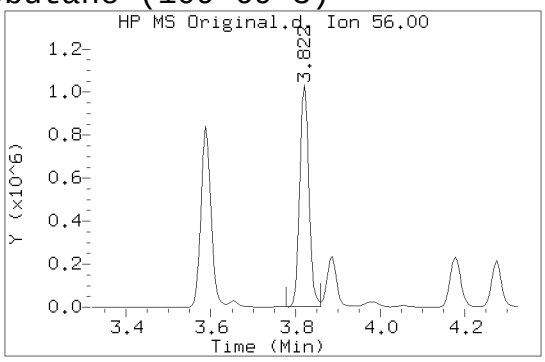


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LabSampID : 1238

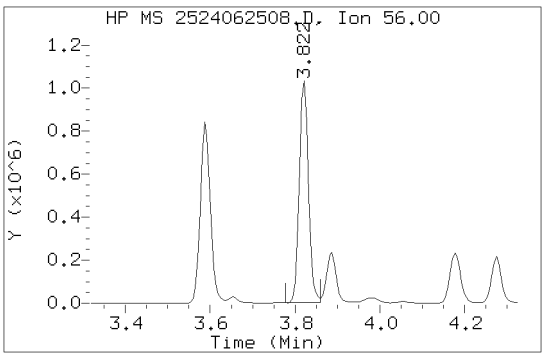
1-Chlorobutane (109-69-3)

Reason Code: I

BEFORE
MASS
56
AREA
1562097
HEIGHT
1032203
25-Jun-2024
18:20



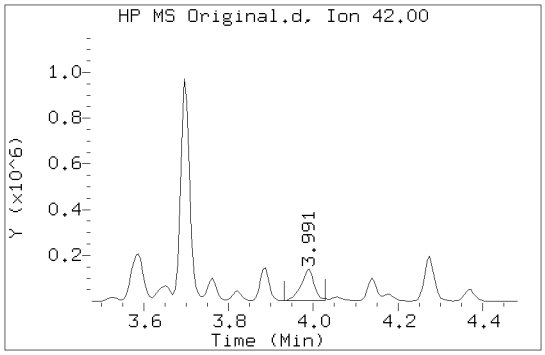
AFTER
MASS
56
AREA
1562097
HEIGHT
1032203
25-Jun-2024
19:31



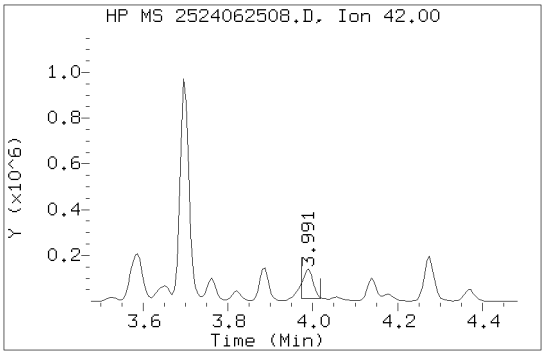
Isobutyl alcohol (78-83-1)

Reason Code: MP

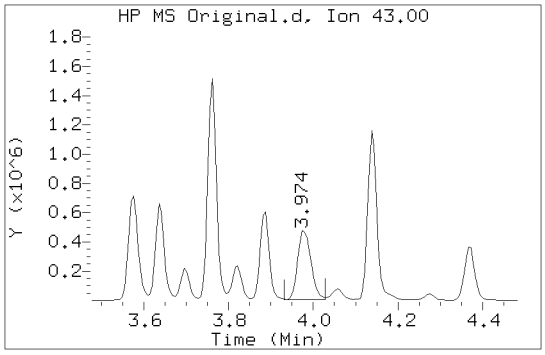
BEFORE
MASS
42
AREA
300551
HEIGHT
138328
25-Jun-2024
18:20



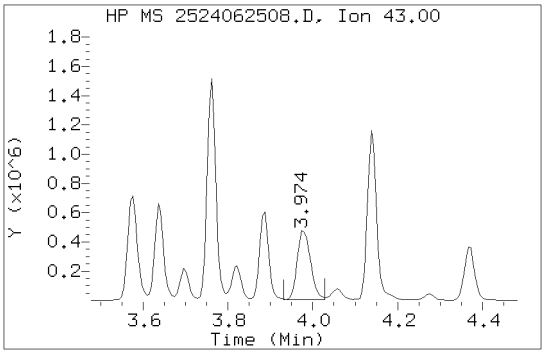
AFTER
MASS
42
AREA
211992
HEIGHT
129362
25-Jun-2024
19:31



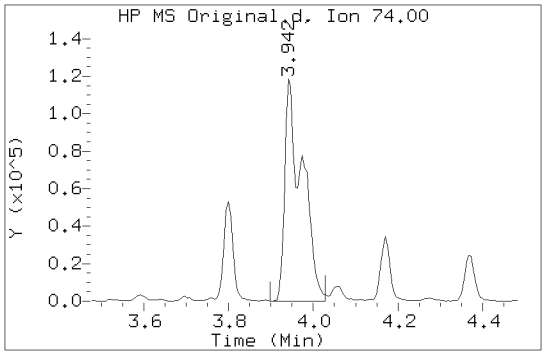
BEFORE
MASS
43
AREA
1050595
HEIGHT
473179
25-Jun-2024
18:20



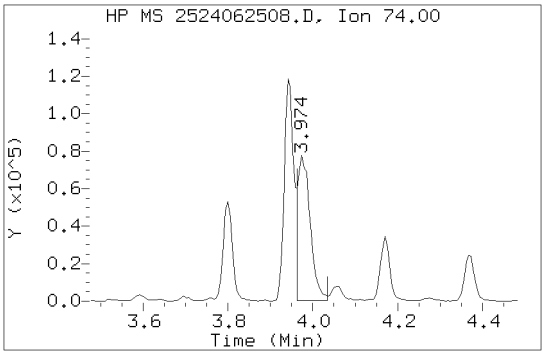
AFTER
MASS
43
AREA
1050595
HEIGHT
473179
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
340688
HEIGHT
118552
25-Jun-2024
18:20



AFTER
MASS
74
AREA
161903
HEIGHT
77595
25-Jun-2024
19:31

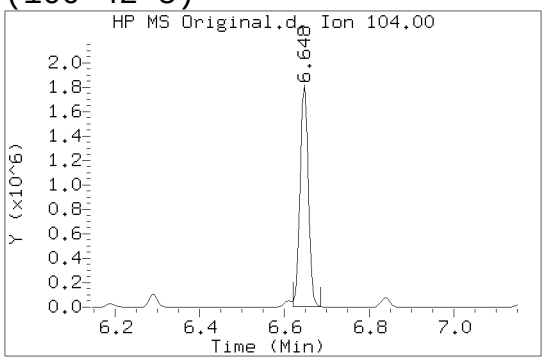


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InstruID : ms25.i
LabSampID : 1238

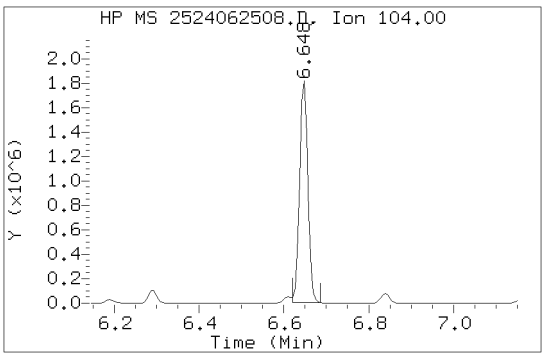
Styrene (100-42-5)

Reason Code: MP

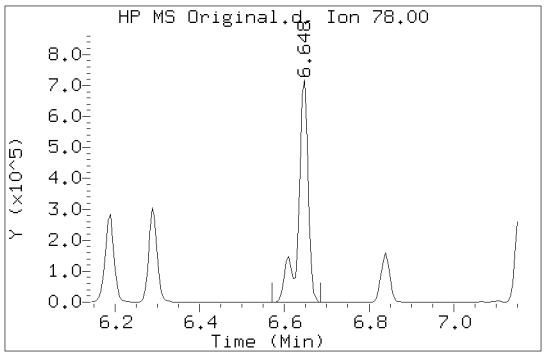
BEFORE
MASS
104
AREA
2454318
HEIGHT
1813453
25-Jun-2024
18:20



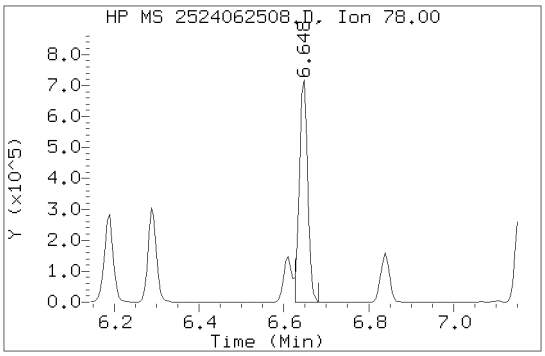
AFTER
MASS
104
AREA
2454318
HEIGHT
1813453
25-Jun-2024
19:31



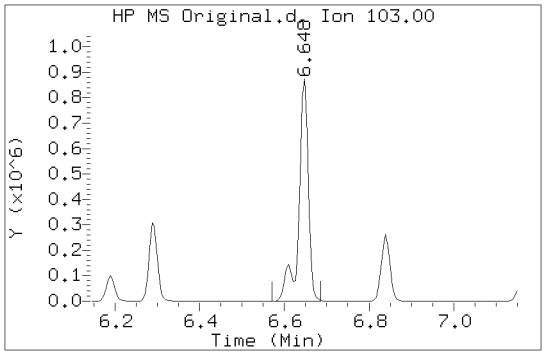
BEFORE
MASS
78
AREA
1183141
HEIGHT
718080
25-Jun-2024
18:20



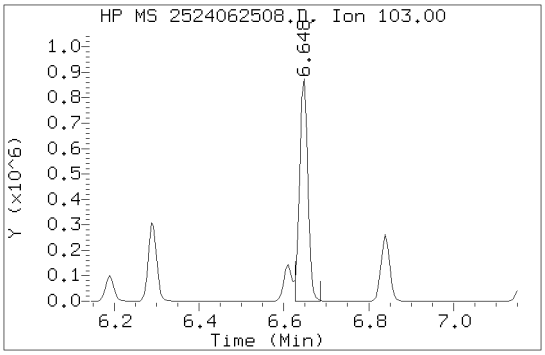
AFTER
MASS
78
AREA
987505
HEIGHT
717971
25-Jun-2024
19:31



BEFORE
MASS
103
AREA
1383231
HEIGHT
873920
25-Jun-2024
18:20



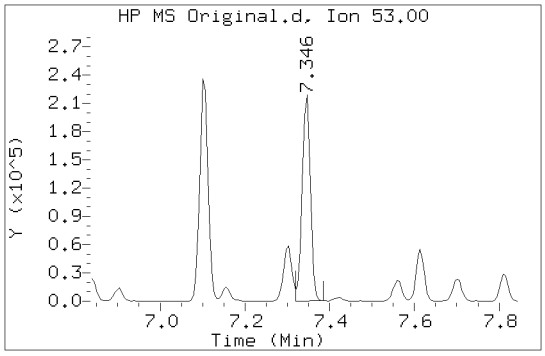
AFTER
MASS
103
AREA
1190788
HEIGHT
873756
25-Jun-2024
19:31



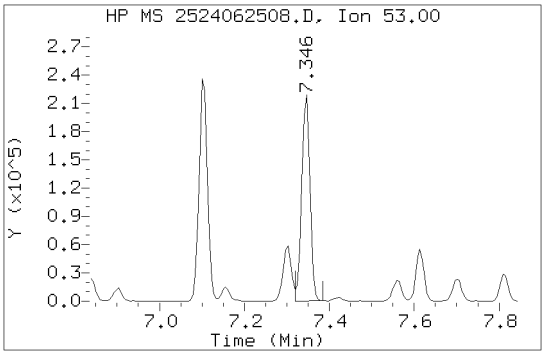
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

BEFORE
MASS
53
AREA
297095
HEIGHT
218507
25-Jun-2024
18:20



AFTER
MASS
53
AREA
297095
HEIGHT
218507
25-Jun-2024
19:31

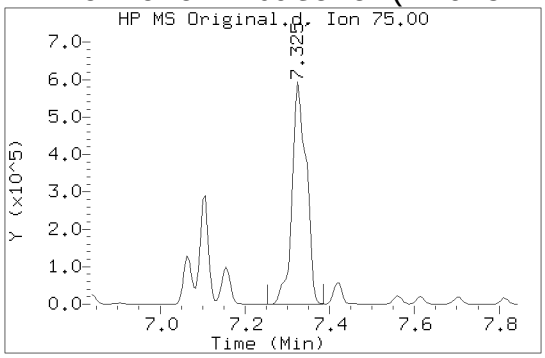


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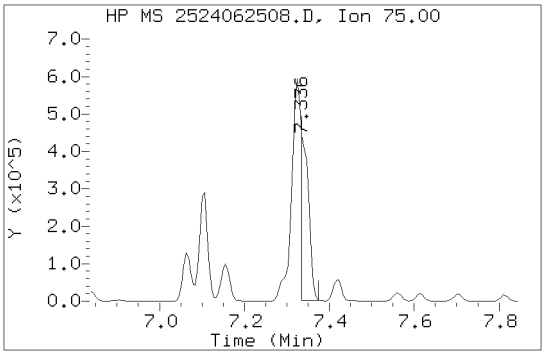
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

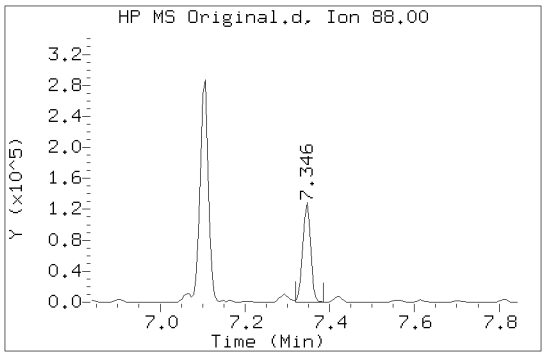
BEFORE
MASS
75
AREA
1390402
HEIGHT
593542
25-Jun-2024
18:20



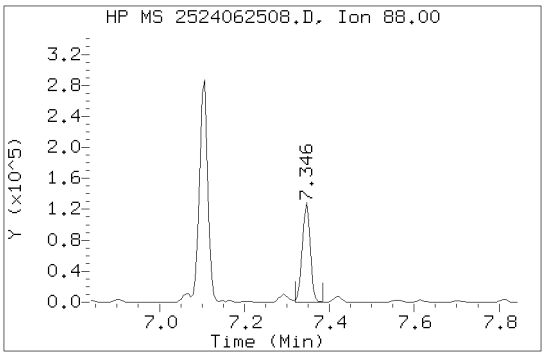
AFTER
MASS
75
AREA
555149
HEIGHT
441254
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
167684
HEIGHT
128214
25-Jun-2024
18:20



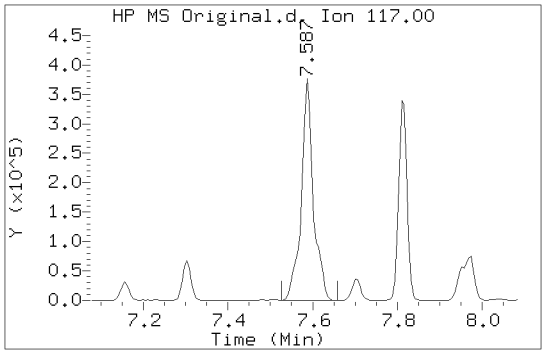
AFTER
MASS
88
AREA
167684
HEIGHT
128214
25-Jun-2024
19:31



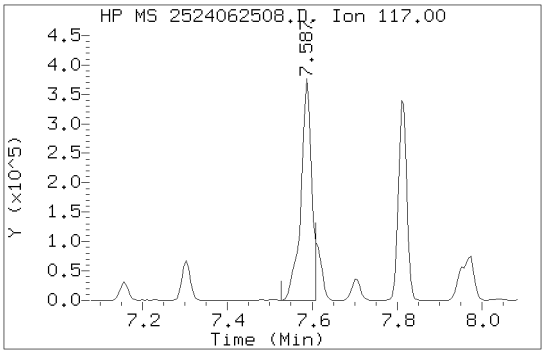
Pentachloroethane (76-01-7)

Reason Code: MP

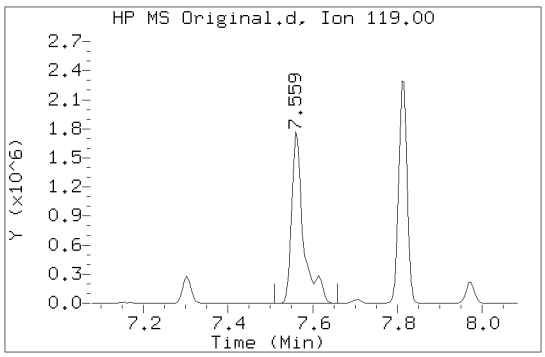
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HEIGHT
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25-Jun-2024
18:20



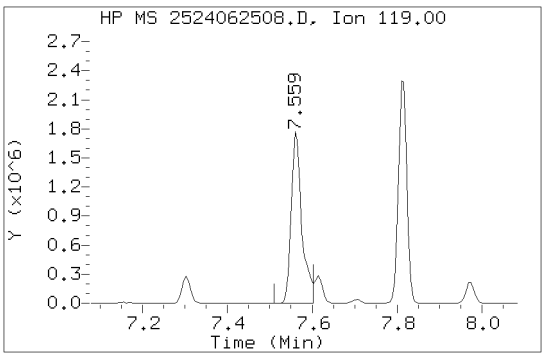
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117
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HEIGHT
376640
25-Jun-2024
19:31



BEFORE
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AREA
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HEIGHT
1771520
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18:20



AFTER
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AREA
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HEIGHT
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25-Jun-2024
19:31



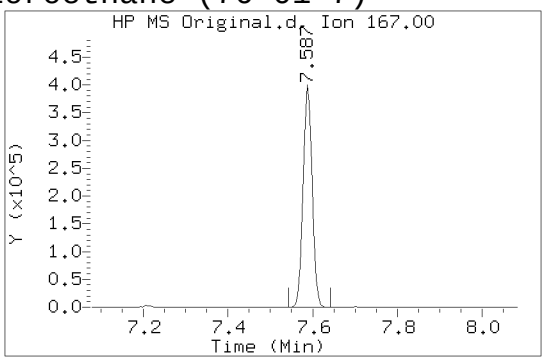
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Inj Date : 25-JUN-2024 12:45
InstruID : ms25.i
LabSampID : 1238

Pentachloroethane (76-01-7)

Reason Code: MP

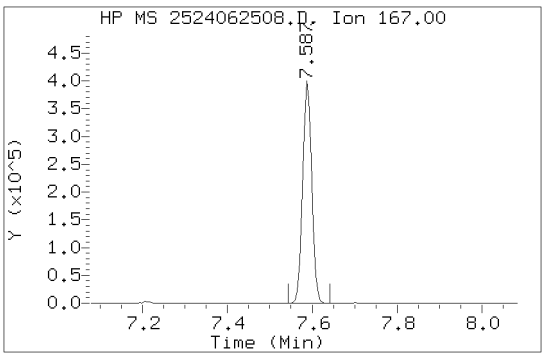
BEFORE

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18:20



AFTER

MASS
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AREA
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25-Jun-2024
19:31

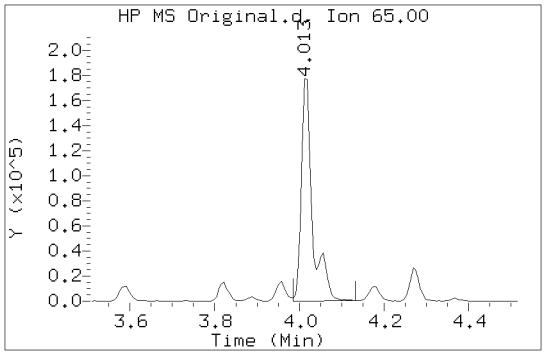


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

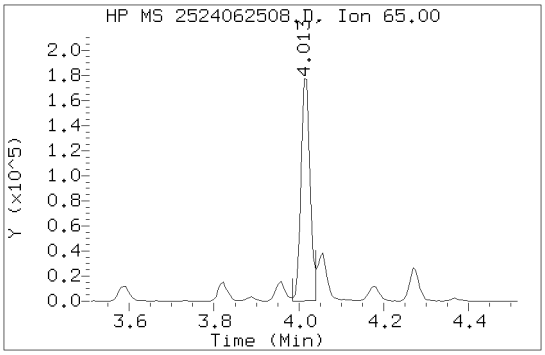
BEFORE

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AREA
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HEIGHT
176958
25-Jun-2024
18:20



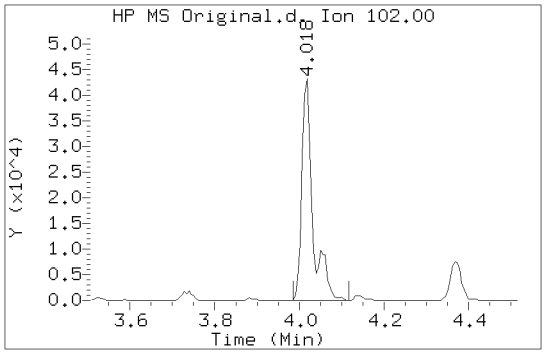
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19:31



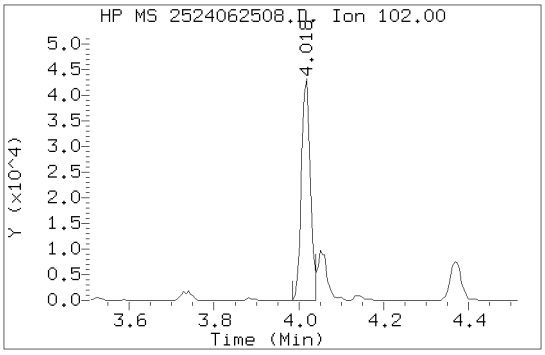
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25-Jun-2024
18:20



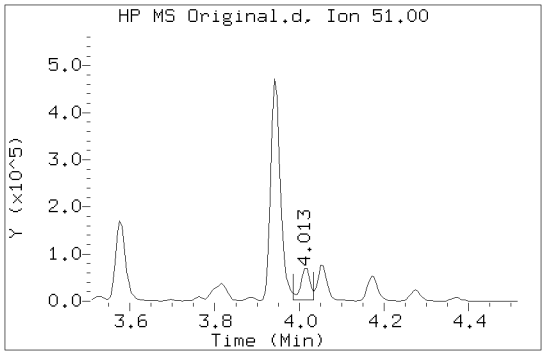
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19:31



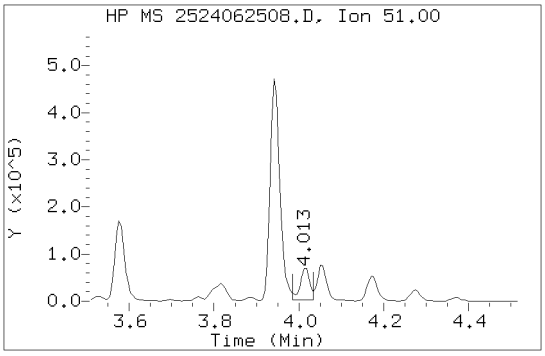
BEFORE

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HEIGHT
67511
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18:20



AFTER

MASS
51
AREA
112491
HEIGHT
67511
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
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Inj Date: 25-JUN-2024 12:45
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062509.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062509.D
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Inj Date : 25-JUN-2024 13:05
Operator : ILY Inst ID: ms25.i
Smp Info : 1239;;1;1;6;;;
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Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	2533343	200.000	200.661(A)	
2 Chloromethane	50	1.644	1.645	(0.394)	2190978	200.000	199.066	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	2763717	200.000	193.643	
4 Bromomethane	94	1.922	1.923	(0.461)	1305713	200.000	192.375	
5 Chloroethane	64	1.999	2.005	(0.479)	1905246	200.000	198.539	
6 Pentane	41	2.086	2.092	(0.500)	1732989	200.000	197.891	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	3760616	200.000	192.366	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	3794751	200.000	209.785(A)	
9 Ethyl Ether	74	2.277	2.278	(0.546)	1181973	200.000	214.877(A)	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	2327421	200.000	212.037(A)	
11 Freon 113	101	2.424	2.425	(0.581)	1639523	200.000	212.363(A)	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	5113780	200.000	215.969(A)	
13 Iodomethane	127	2.506	2.507	(0.601)	874390	200.000	203.891(AM)	MP
14 Acrolein	56	2.599	2.600	(0.623)	1855433	1000.00	1047.97(A)	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	563852	1000.00	983.496(A)	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	1831594	200.000	191.003	
17 Methylene Chloride	84	2.741	2.741	(0.657)	1850713	200.000	206.413(A)	
18 Acetone	58	2.757	2.752	(0.661)	957192	1000.00	963.579(A)	
19 Methyl acetate	74	2.812	2.812	(0.674)	401646	200.000	198.075	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	2259733	200.000	210.193(A)	
21 Hexane	57	2.861	2.867	(0.686)	3534639	200.000	198.521	

Data File: 2524062509.D
Report Date: 25-Jun-2024 19:32

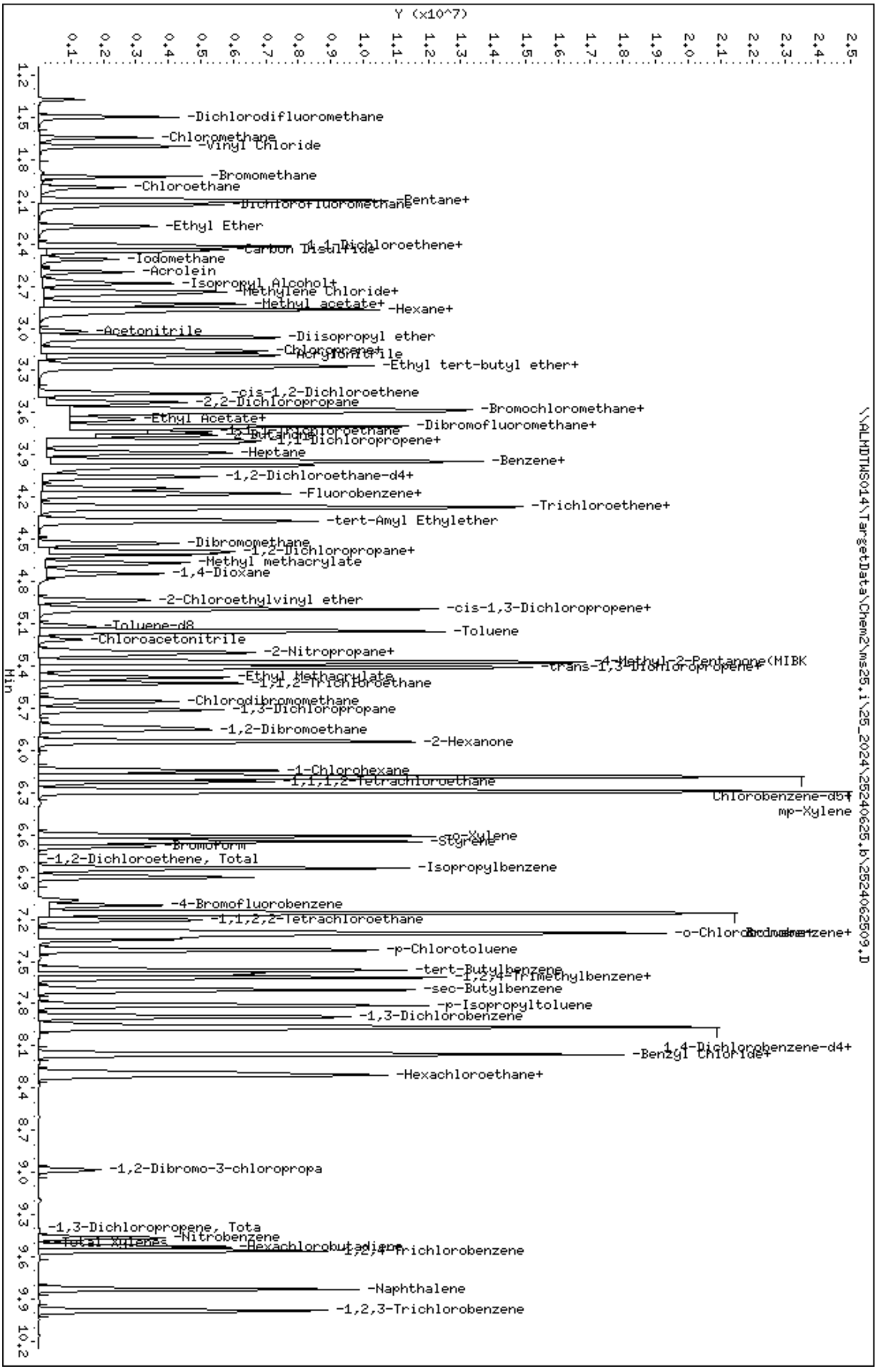
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	5465615	200.000	197.482	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	1044247	1000.00	1053.02(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	1144489	1000.00	1030.32(A)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	5106206	200.000	214.009(A)	
	26 Chloroprene	53	3.155	3.156	(0.757)	2690763	200.000	222.440(A)	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	3152575	200.000	215.242(A)	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	4150745	1000.00	1088.14(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	5631765	200.000	222.238(A)	
	30 n-Propanol	41	3.265	3.260	(0.783)	934630	2000.00	1988.33(A)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	502264	200.000	199.748(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	2317342	200.000	212.587(A)	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	2483153	200.000	212.717(A)	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	1007796	200.000	214.387(A)	
	35 Cyclohexane	84	3.587	3.587	(0.860)	2805001	200.000	214.457(A)	
	36 Chloroform	83	3.597	3.598	(0.863)	3402674	200.000	215.202(A)	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	1869543	200.000	197.447	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	1893330	200.000	215.695(A)	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	2364065	200.000	202.004(AM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	269793	30.0000	29.9675	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	2809741	1000.00	1047.05(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	2730421	200.000	221.860(A)	
	43 2-Butanone	72	3.761	3.767	(0.902)	1355775	1000.00	1045.11(AM)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	2490484	200.000	213.935(A)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	1497481	200.000	200.031(A)	
	46 Heptane	71	3.887	3.887	(0.932)	1359947	200.000	201.075(A)	
	47 Benzene	78	3.941	3.942	(0.945)	7285794	200.000	203.620(A)	
	48 Propionitrile	54	3.941	3.942	(0.945)	1569623	1000.00	1086.65(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	949015	200.000	219.168(A)	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	5347492	200.000	218.606(A)	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	461252	2000.00	2080.98(AQM)	MP
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	264730	30.0000	27.8946(Q)	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	2293019	200.000	203.858(A)	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	828700	1000.00	1089.18(A)	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1140999	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	4304948	200.000	199.241	
	57 Trichloroethene	95	4.269	4.269	(1.024)	1911167	200.000	211.044(A)	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	3083558	200.000	207.342(A)	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	4280148	200.000	199.943	
	60 Dibromomethane	93	4.525	4.526	(1.085)	1261550	200.000	220.365(A)	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	1865089	200.000	216.575(A)	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	2408792	200.000	200.112(A)	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	1542068	200.000	226.257(A)	
	64 1,4-Dioxane	88	4.721	4.722	(1.132)	654248	5000.00	4907.67(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	1290655	200.000	203.639(A)	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	3091062	200.000	198.443	
	67 Octane	85	5.000	5.000	(0.810)	1164839	200.000	206.573(A)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004821	30.0000	27.6813	
	69 Toluene	92	5.153	5.153	(0.835)	4497848	200.000	195.496	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	605378	1000.00	1055.50(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	2564073	1000.00	1010.56(A)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	244954	1000.00	998.419(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	8734882	1000.00	958.508(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	2883334	200.000	199.848	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	1746614	200.000	208.481(A)	

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Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	2747208	200.000	197.168	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	1455486	200.000	205.900(A)	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	2002816	200.000	198.766	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	2931716	200.000	209.909(A)	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	1854429	200.000	196.399	
	81 2-Hexanone	43	5.938	5.933	(0.962)	6043549	1000.00	966.370(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	2598392	200.000	214.677(A)	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	458486	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	4976299	200.000	212.244(A)	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	2724522	200.000	199.145	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	1749666	200.000	196.705	
	87 mp-Xylene	106	6.287	6.288	(1.019)	6367993	400.000	393.536(A)	
	88 o-Xylene	106	6.609	6.610	(1.071)	3066270	200.000	196.521	
	89 Styrene	104	6.648	6.648	(0.836)	4976988	200.000	202.321(AM)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	1437569	200.000	206.673(A)	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	6796201	200.000	198.663	
M	100 1,2-Dichloroethene, Total	61				4577075	400.000	422.780	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	328983	30.0000	28.7193	
	93 Bromobenzene	156	7.155	7.156	(0.900)	2134822	200.000	218.064(A)	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	2189906	200.000	218.753(A)	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	2194263	200.000	225.506(A)	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	5793534	200.000	219.965(A)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	5987392	200.000	214.902(A)	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	681141	200.000	217.039(A)	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	609147	200.000	203.114(AM)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	5152023	200.000	215.954(A)	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	1465252	200.000	219.893(A)	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	1367796	200.000	203.511(AM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	5884390	200.000	199.913	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	7352965	200.000	213.536(A)	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	1743745	200.000	221.134(A)	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	3602650	200.000	218.432(A)	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	414069	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	3762667	200.000	218.865(A)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	867235	200.000	208.955(AQ)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	1593183	200.000	216.199(A)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	1225691	200.000	206.207(A)	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	3512145	200.000	223.550(A)	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	386483	200.000	206.383(A)	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	1663438	2000.00	1994.71(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	1058167	200.000	202.812(A)	
M	120 1,3-Dichloropropene, Total	75				5974396	400.000	398.291	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	2422661	200.000	232.854(A)	
M	121 Total Xylenes	106				9434263	600.000	590.057	
	118 Naphthalene	128	9.829	9.829	(1.236)	6235557	200.000	202.911(A)	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	2411703	200.000	205.392(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Client ID:
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Column phase: DB-VRX

Instrument: ms25.i
Operator: ILY
Column diameter: 0.25

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Page 1

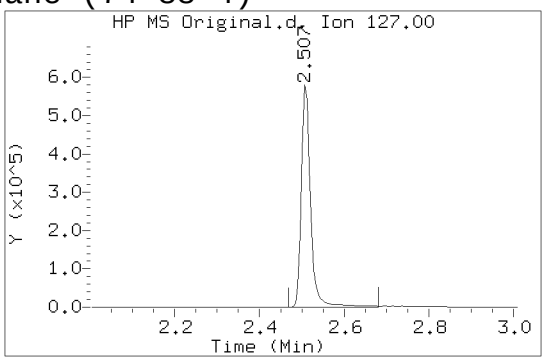
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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

Iodomethane (74-88-4)

Reason Code: MP

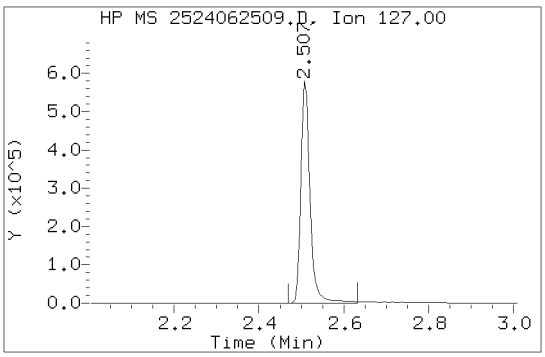
BEFORE

MASS
127
AREA
884363
HEIGHT
580224
25-Jun-2024
18:25



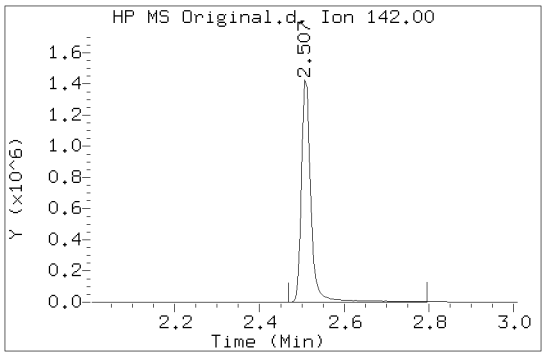
AFTER

MASS
127
AREA
874390
HEIGHT
580224
25-Jun-2024
19:31



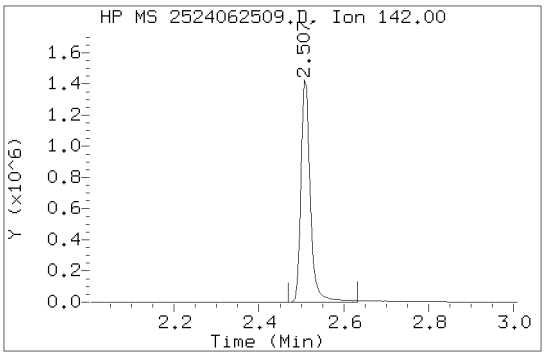
BEFORE

MASS
142
AREA
2248055
HEIGHT
1425920
25-Jun-2024
18:25



AFTER

MASS
142
AREA
2188795
HEIGHT
1425920
25-Jun-2024
19:31

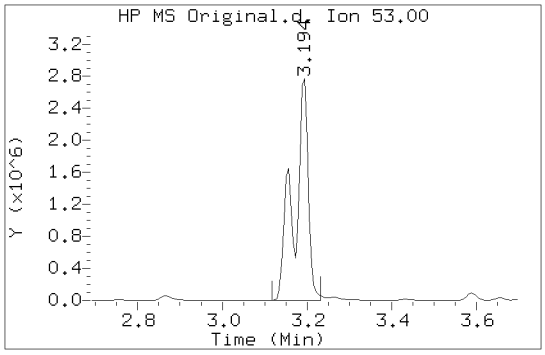


Acrylonitrile (107-13-1)

Reason Code: MP

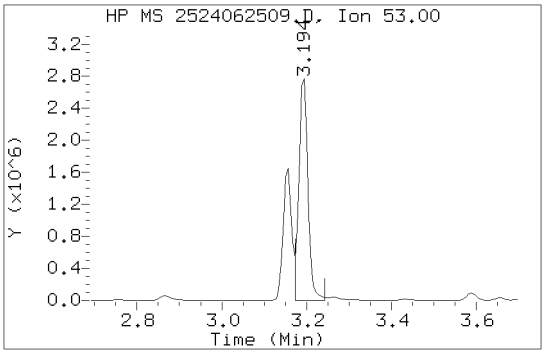
BEFORE

MASS
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AREA
6354563
HEIGHT
2769907
25-Jun-2024
18:25



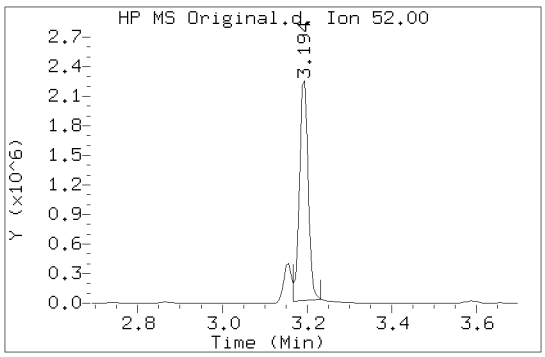
AFTER

MASS
53
AREA
4150745
HEIGHT
2769098
25-Jun-2024
19:31



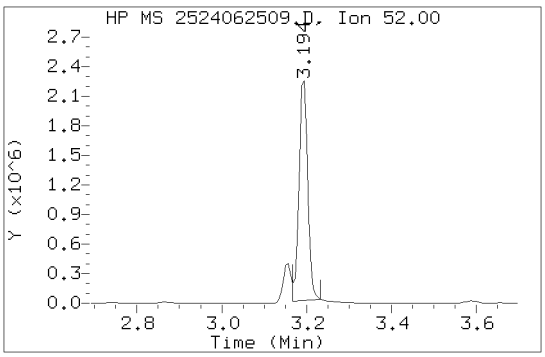
BEFORE

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
18:25



AFTER

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
19:31



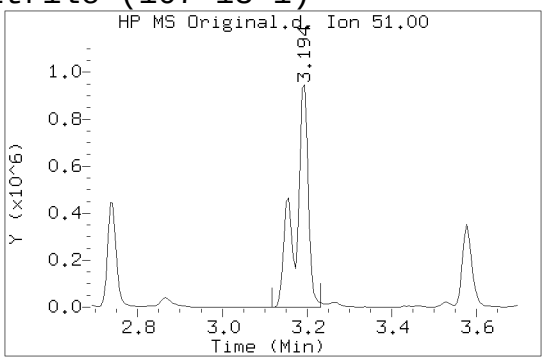
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InstruID : ms25.i
LabSampID : 1239

Acrylonitrile (107-13-1)

Reason Code: MP

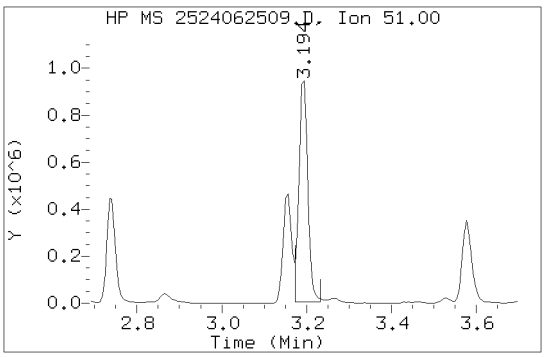
BEFORE

MASS
51
AREA
2049581
HEIGHT
945935
25-Jun-2024
18:25



AFTER

MASS
51
AREA
1391216
HEIGHT
941577
25-Jun-2024
19:31

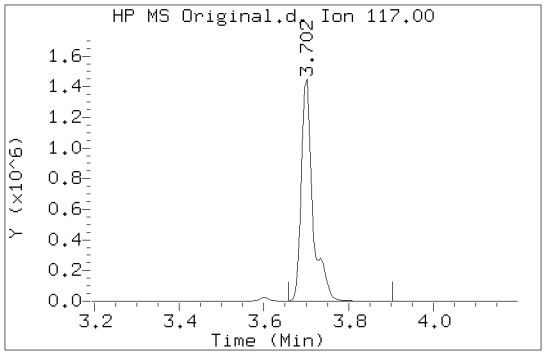


Carbon Tetrachloride (56-23-5)

Reason Code: MP

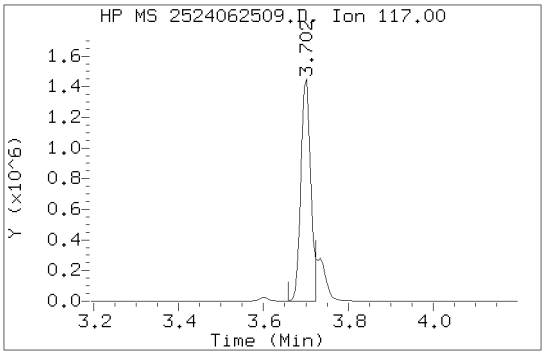
BEFORE

MASS
117
AREA
2775522
HEIGHT
1451008
25-Jun-2024
18:25



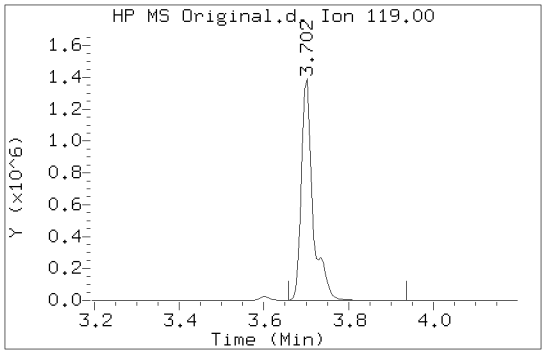
AFTER

MASS
117
AREA
2364065
HEIGHT
1451008
25-Jun-2024
19:31



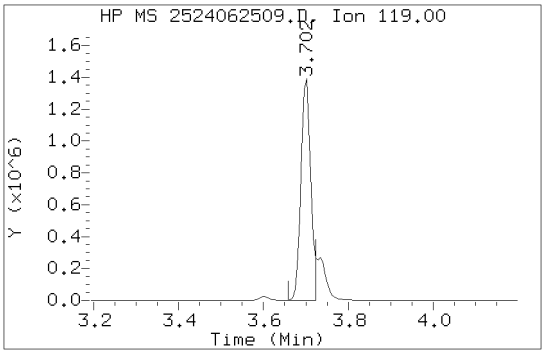
BEFORE

MASS
119
AREA
2660083
HEIGHT
1391104
25-Jun-2024
18:25



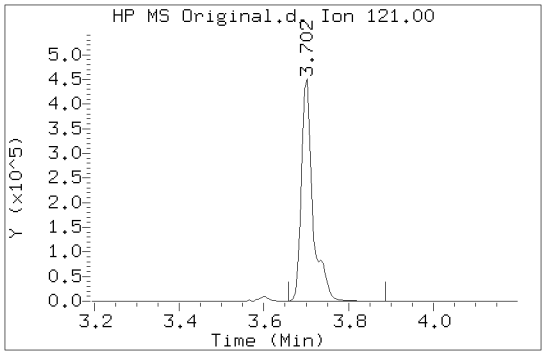
AFTER

MASS
119
AREA
2260916
HEIGHT
1391104
25-Jun-2024
19:31



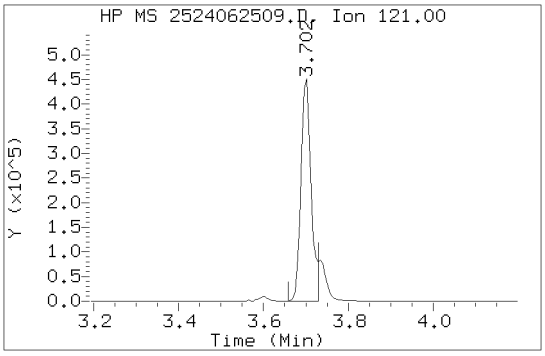
BEFORE

MASS
121
AREA
857041
HEIGHT
451264
25-Jun-2024
18:25



AFTER

MASS
121
AREA
757273
HEIGHT
451264
25-Jun-2024
19:31

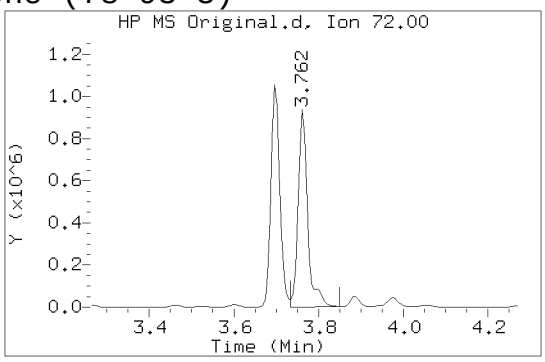


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LabSampID : 1239

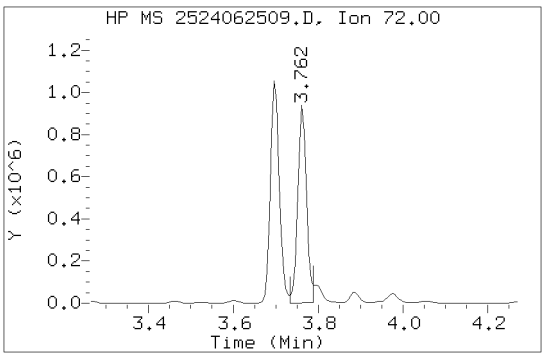
2-Butanone (78-93-3)

Reason Code: MP

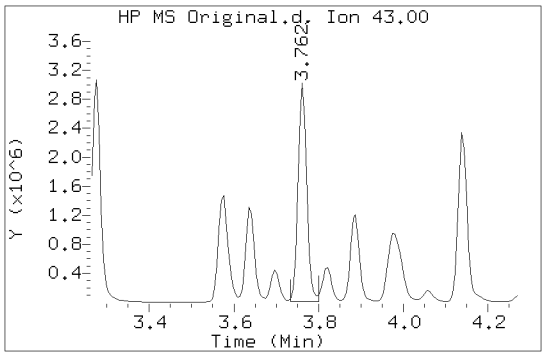
BEFORE
MASS
72
AREA
1460527
HEIGHT
938761
25-Jun-2024
18:25



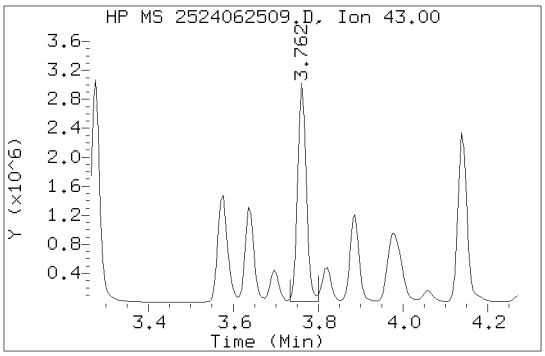
AFTER
MASS
72
AREA
1355775
HEIGHT
938762
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
18:25



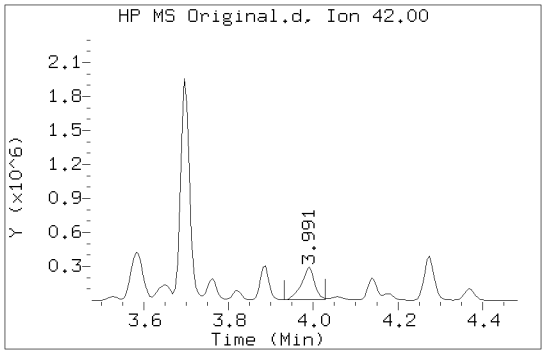
AFTER
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
19:31



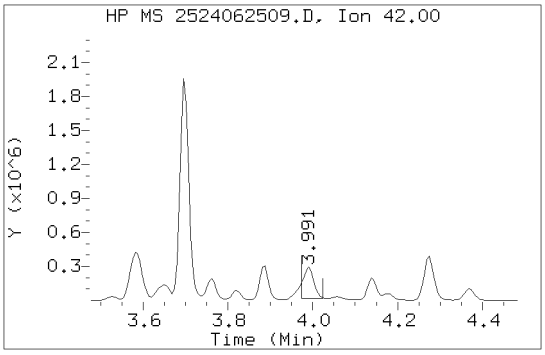
Isobutyl alcohol (78-83-1)

Reason Code: MP

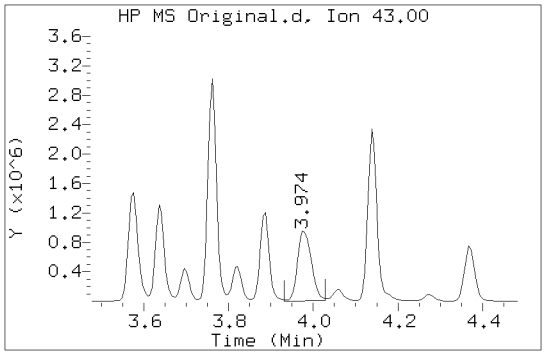
BEFORE
MASS
42
AREA
620025
HEIGHT
289160
25-Jun-2024
18:25



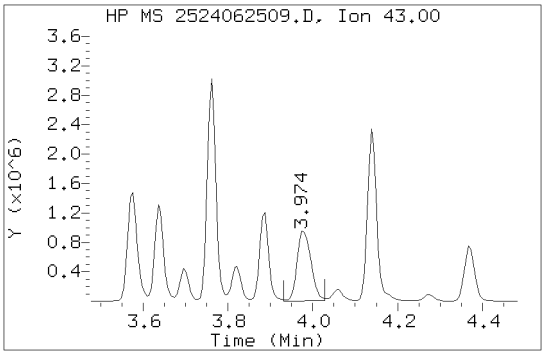
AFTER
MASS
42
AREA
461252
HEIGHT
275900
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
18:25



AFTER
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
19:31



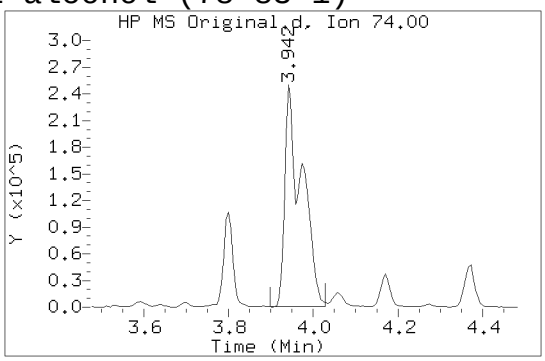
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InstruID : ms25.i
LabSampID : 1239

Isobutyl alcohol (78-83-1)

Reason Code: MP

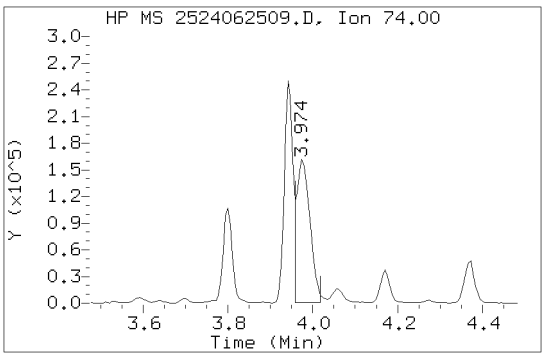
BEFORE

MASS
74
AREA
698483
HEIGHT
249770
25-Jun-2024
18:25



AFTER

MASS
74
AREA
366826
HEIGHT
160765
25-Jun-2024
19:31

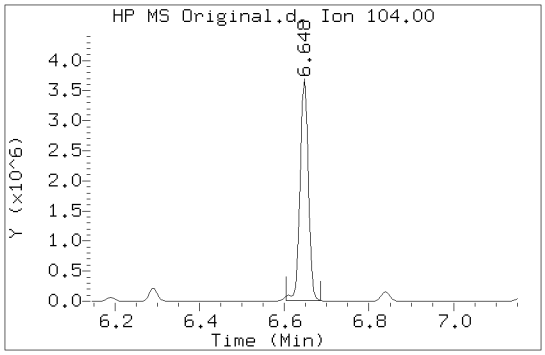


Styrene (100-42-5)

Reason Code: MP

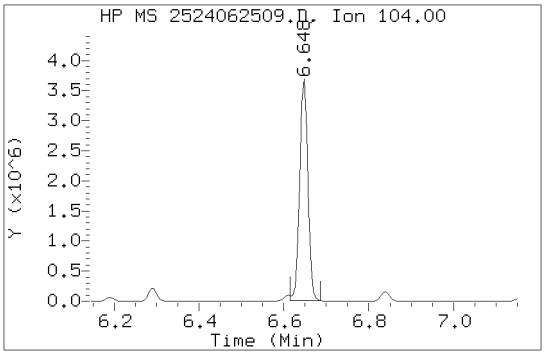
BEFORE

MASS
104
AREA
5036598
HEIGHT
3687716
25-Jun-2024
18:25



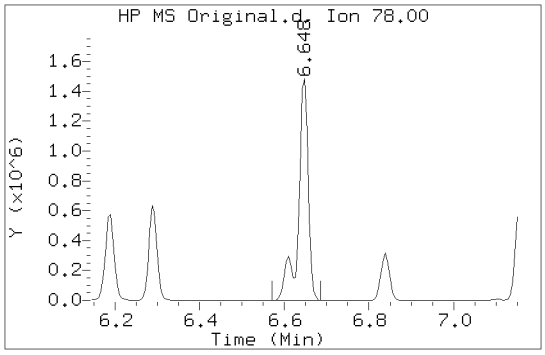
AFTER

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104
AREA
4976988
HEIGHT
3687196
25-Jun-2024
19:31



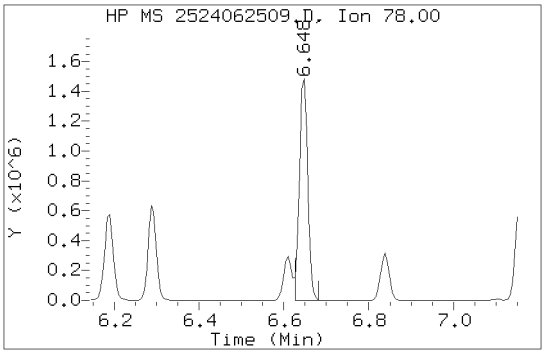
BEFORE

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78
AREA
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HEIGHT
1484288
25-Jun-2024
18:25



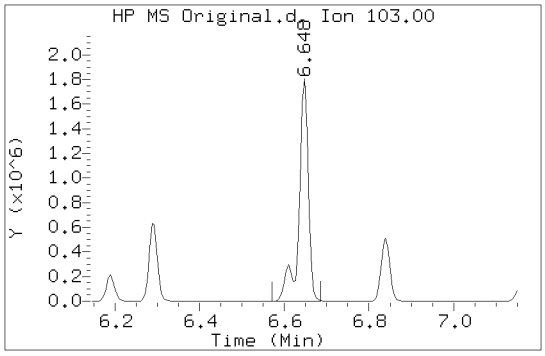
AFTER

MASS
78
AREA
2039990
HEIGHT
1482254
25-Jun-2024
19:31



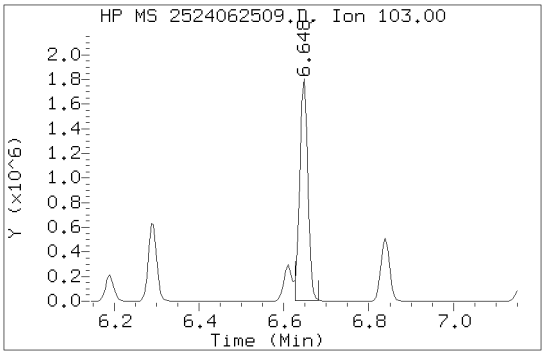
BEFORE

MASS
103
AREA
2821329
HEIGHT
1805092
25-Jun-2024
18:25



AFTER

MASS
103
AREA
2410115
HEIGHT
1799232
25-Jun-2024
19:31

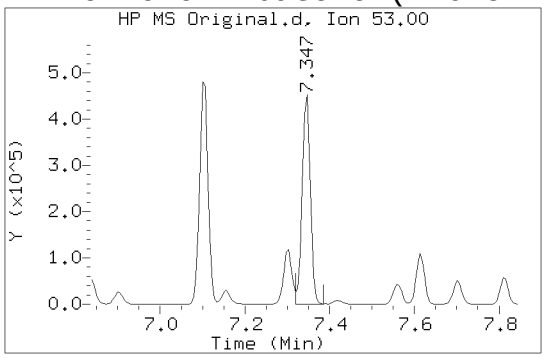


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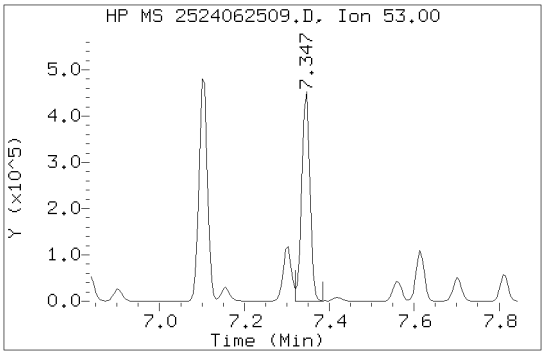
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

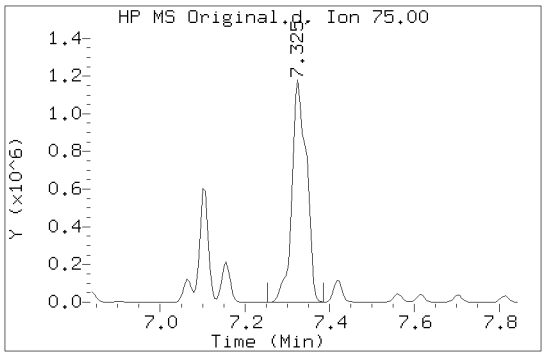
BEFORE
MASS
53
AREA
609147
HEIGHT
452181
25-Jun-2024
18:25



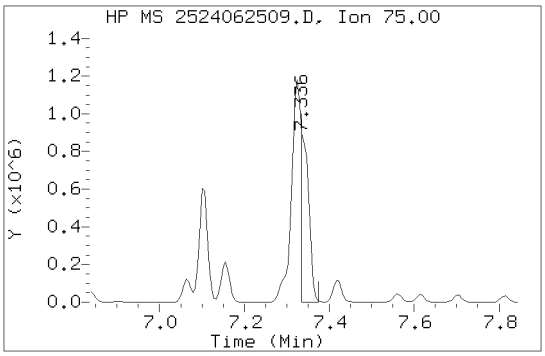
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MASS
53
AREA
609147
HEIGHT
452181
25-Jun-2024
19:31



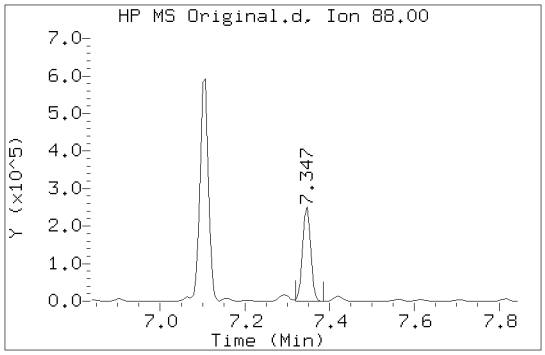
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MASS
75
AREA
2825803
HEIGHT
1179648
25-Jun-2024
18:25



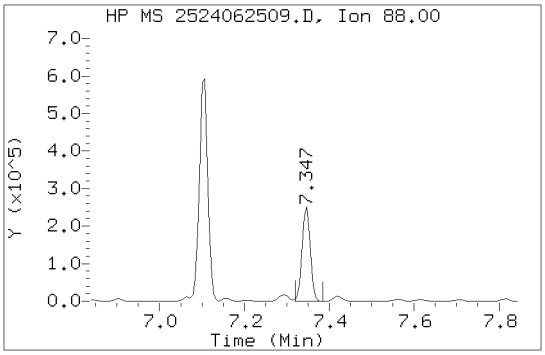
AFTER
MASS
75
AREA
1139497
HEIGHT
895370
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
337074
HEIGHT
250889
25-Jun-2024
18:25



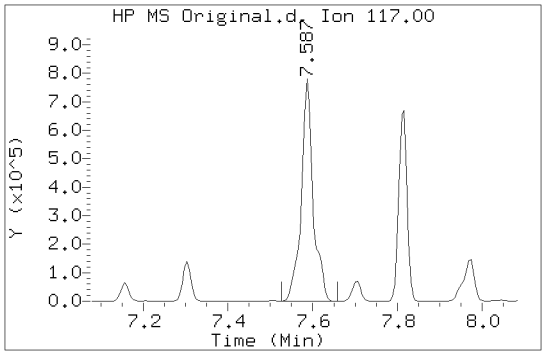
AFTER
MASS
88
AREA
337074
HEIGHT
250889
25-Jun-2024
19:31



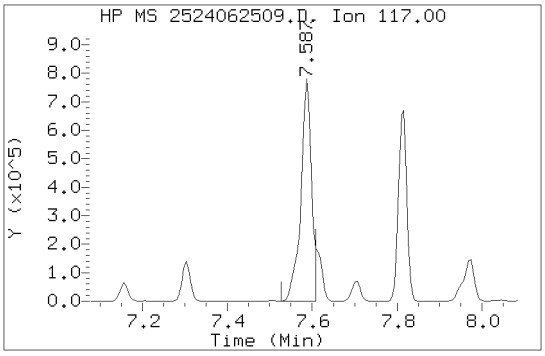
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
1519811
HEIGHT
780016
25-Jun-2024
18:25



AFTER
MASS
117
AREA
1367796
HEIGHT
780016
25-Jun-2024
19:31



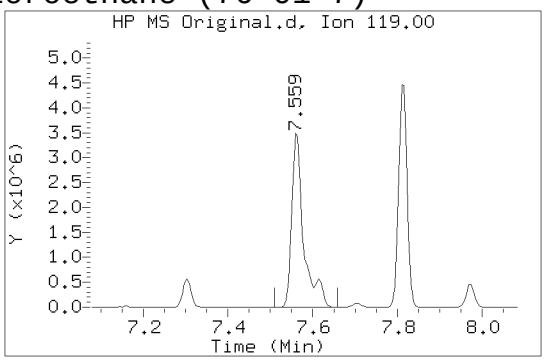
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LabSampID : 1239

Pentachloroethane (76-01-7)

Reason Code: MP

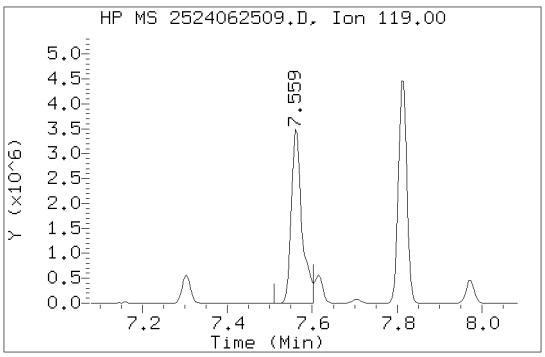
BEFORE

MASS
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25-Jun-2024
18:25



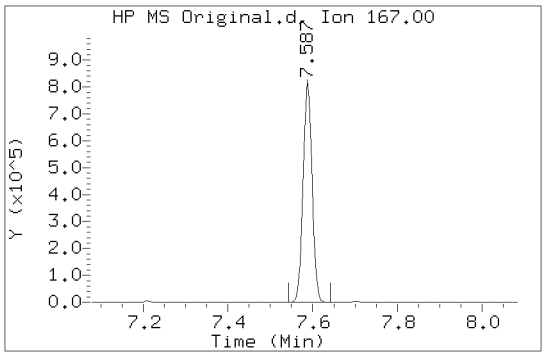
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19:31



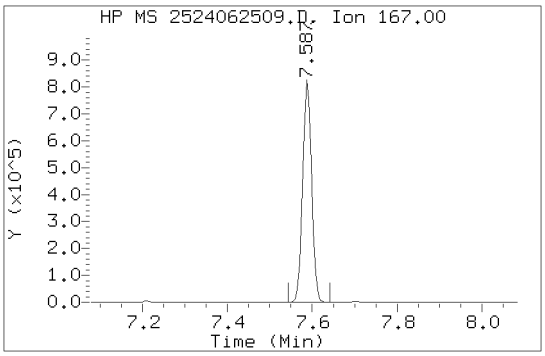
BEFORE

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25-Jun-2024
18:25



AFTER

MASS
167
AREA
1212018
HEIGHT
826368
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 13:05
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062515ICVQ.D Page 1
Report Date: 25-Jun-2024 19:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062515ICV
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Inj Date : 25-JUN-2024 15:08
Operator : ILY Inst ID: ms25.i
Smp Info : ICVQ;;1;3;;ICVQ;1;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	251951	20.6685	20.6685	
2 Chloromethane	50	1.644	1.645	(0.394)	208848	19.5473	19.5473	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	280887	20.3829	20.3829	
4 Bromomethane	94	1.922	1.923	(0.461)	135606	20.2997	20.2997	
5 Chloroethane	64	1.999	2.005	(0.479)	198690	21.1689	21.1689	
6 Pentane	41	2.086	2.092	(0.500)	183202	20.7239	20.7239	
7 Trichlorofluoromethane	101	2.092	2.103	(0.502)	384907	20.3916	20.3916	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	405133	23.1960	23.1960	
9 Ethyl Ether	74	2.277	2.278	(0.546)	114503	21.5588	21.5588	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	241984	22.8323	22.8323	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	495835	21.6876	21.6876	
11 Freon 113	101	2.424	2.425	(0.581)	170212	22.8337	22.8337	
13 Iodomethane	127	2.506	2.507	(0.601)	67585	16.7923	16.7923	
14 Acrolein	56	2.599	2.600	(0.623)	272564	159.440	159.440	
16 3-Chloro-1-propene	41	2.675	2.676	(0.642)	210672	22.9067	22.9067	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	58549	102.932	102.932	
17 Methylene Chloride	84	2.735	2.741	(0.656)	192795	22.2700	22.2700	
18 Acetone	58	2.757	2.752	(0.661)	103013	107.400	107.400	
19 Methyl acetate	74	2.812	2.812	(0.674)	42205	21.1799	21.1799(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	238437	22.9700	22.9700	
21 Hexane	57	2.861	2.867	(0.686)	364566	20.9440	20.9440	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

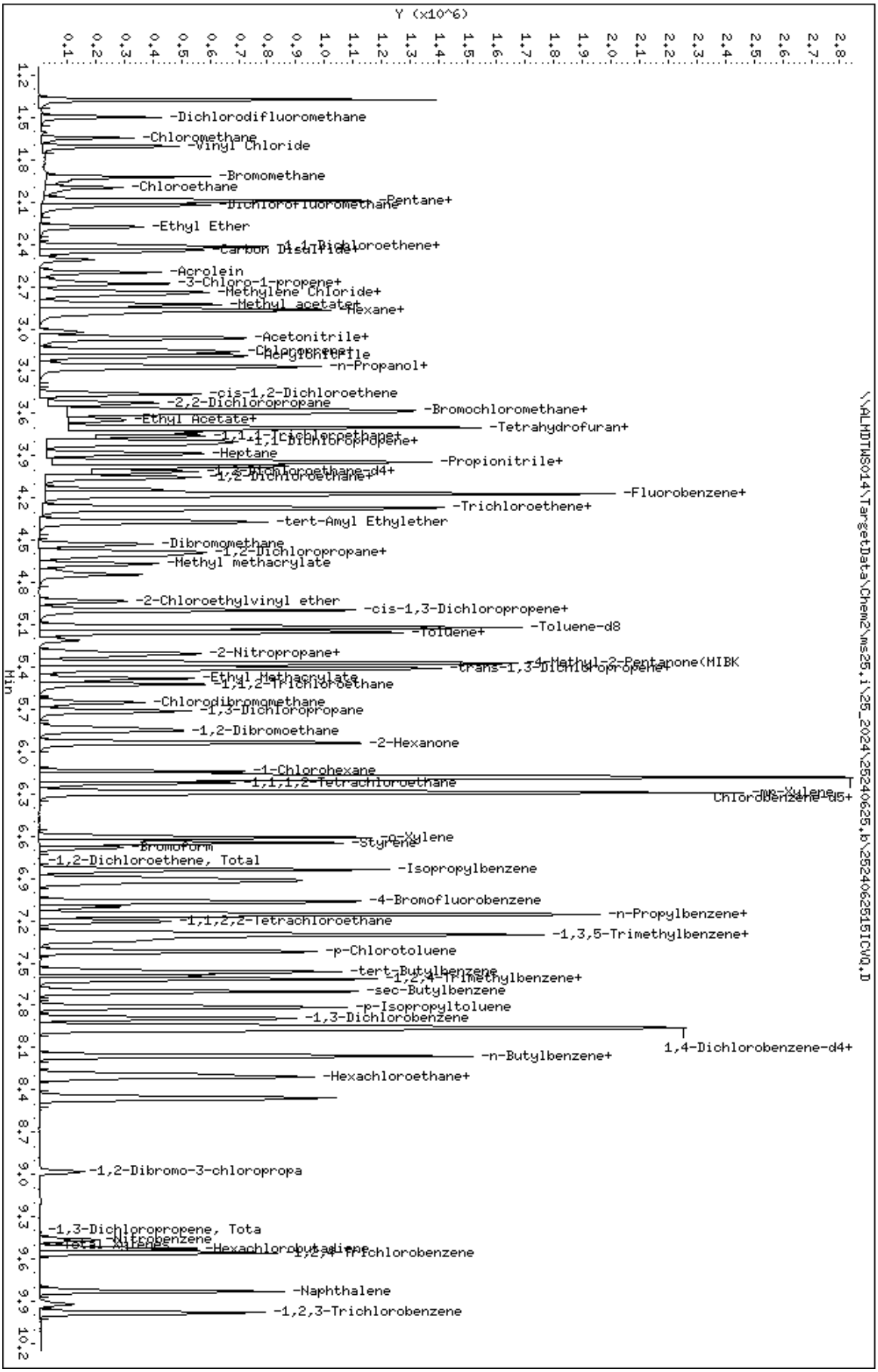
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	547401	20.6913	20.6913	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	107488	112.258	112.258	
	24 Acetonitrile	41	3.019	3.020	(0.724)	118663	110.637	110.637	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	518577	22.5098	22.5098	
	26 Chloroprene	53	3.156	3.156	(0.757)	267398	22.8940	22.8940	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	319400	22.5851	22.5851	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	419174	113.810	113.810(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	94386	207.961	207.961	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	568234	23.2234	23.2234	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	45058	18.9056	18.9056(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	237502	22.5651	22.5651	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	231583	20.5462	20.5462	
M	100 1,2-Dichloroethene, Total	61				475939	45.5351	45.5351	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	106286	23.4167	23.4167	
	35 Cyclohexane	84	3.587	3.587	(0.860)	285137	22.5780	22.5780	
	36 Chloroform	83	3.597	3.598	(0.863)	348031	22.7965	22.7965	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	183312	19.9738	19.9738	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	191793	22.6294	22.6294	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	217824	19.6529	19.6529(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	275680	106.398	106.398	
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	256125	29.4644	29.4644	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	280959	23.6438	23.6438	
	43 2-Butanone	72	3.761	3.767	(0.902)	137862	110.064	110.064(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	251179	22.3464	22.3464	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	155097	21.4567	21.4567	
	46 Heptane	71	3.887	3.887	(0.932)	136483	20.8997	20.8997	
	48 Propionitrile	54	3.941	3.942	(0.945)	155474	111.475	111.475	
	47 Benzene	78	3.941	3.942	(0.945)	744196	21.5406	21.5406	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	92810	22.1985	22.1985	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	542174	22.9549	22.9549	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	262361	28.6313	28.6313(M)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	34211	163.562	163.562(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	236551	21.7806	21.7806	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	83872	114.168	114.168	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1101692	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	452639	20.3518	20.3518	
	57 Trichloroethene	95	4.269	4.269	(1.024)	190652	21.8042	21.8042	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	304774	21.9417	21.9417	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	402469	19.7081	19.7081	
	60 Dibromomethane	93	4.525	4.526	(1.085)	123469	22.3369	22.3369	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	186337	22.4096	22.4096	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	233572	20.3931	20.3931	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	144674	21.9843	21.9843	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	120010	19.9453	19.9453	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	281300	19.5895	19.5895	
	67 Octane	85	5.000	5.000	(0.810)	115653	21.9595	21.9595	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	988189	29.1471	29.1471	
	69 Toluene	92	5.153	5.153	(0.835)	450960	20.9859	20.9859	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	62587	116.835	116.835	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	216627	93.1119	93.1119	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	21848	97.0977	97.0977(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	928220	109.950	109.950	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	266554	20.0483	20.0483	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	172484	22.0433	22.0433	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
76 Ethyl methacrylate	69	5.480	5.481	(0.888)	253851	19.7911	19.7911	
77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	147105	22.2809	22.2809	
78 Chlorodibromomethane	129	5.649	5.650	(0.915)	179731	19.4308	19.4308	
79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	297226	22.7852	22.7852	
80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	175686	20.1319	20.1319	
81 2-Hexanone	43	5.933	5.933	(0.961)	623906	107.801	107.801	
82 1-Chlorohexane	91	6.140	6.146	(0.995)	255005	22.5573	22.5573	
* 83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	428222	30.0000		
85 Ethylbenzene	106	6.189	6.190	(1.003)	268551	20.8965	20.8965	
84 Chlorobenzene	112	6.184	6.184	(1.002)	479812	21.9107	21.9107	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	165593	20.2181	20.2181	
87 mp-Xylene	106	6.288	6.288	(1.019)	633583	41.2141	41.2141	
M 120 1,3-Dichloropropene, Total	75				547854	39.6378	39.6378	
88 o-Xylene	106	6.609	6.610	(1.071)	296259	20.3295	20.3295	
89 Styrene	104	6.648	6.648	(0.836)	476196	21.1423	21.1423	
90 Bromoform	173	6.680	6.686	(0.840)	117468	18.5434	18.5434	
91 Isopropylbenzene	105	6.839	6.839	(0.860)	748030	23.7053	23.7053	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	306965	28.9025	28.9025	
M 121 TOTAL XYLENES	106				929842	61.5436	61.5436	
94 n-Propylbenzene	120	7.155	7.156	(0.900)	202709	21.8398	21.8398	
93 Bromobenzene	156	7.155	7.156	(0.900)	194158	21.3906	21.3906	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	202733	22.4719	22.4719	
97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	558673	21.6275	21.6275	
96 o-Chlorotoluene	91	7.291	7.292	(0.917)	534310	21.8801	21.8801	
98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	64224	22.0722	22.0722	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	54164	19.7417	19.7417(Q)	
101 p-Chlorotoluene	91	7.417	7.418	(0.933)	488613	22.0900	22.0900	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	140218	22.6960	22.6960	
103 Pentachloroethane	117	7.586	7.581	(0.954)	109789	17.8854	17.8854(QM)	MP
104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	566890	20.6358	20.6358	
105 sec-Butylbenzene	105	7.701	7.707	(0.968)	727916	22.8001	22.8001	
106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	160341	21.9313	21.9313	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	341074	22.3044	22.3044	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	383907	30.0000		
109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	348388	21.8570	21.8570	
111 n-Butylbenzene	134	8.159	8.160	(1.026)	146071	21.3796	21.3796(Q)	
110 Benzyl Chloride	126	8.159	8.160	(1.026)	60049	16.0397	16.0397(Q)	
112 Hexachloroethane	117	8.290	8.285	(1.043)	100711	18.6291	18.6291	
113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	325146	22.3217	22.3217	
114 1,2-Dibromo-3-chloropropane	75	8.978	8.984	(1.129)	31004	18.2352	18.2352	
115 Nitrobenzene	77	9.463	9.464	(1.190)	86105	165.714	165.714	
116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	100478	20.9968	20.9968	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	225852	23.4132	23.4132	
118 Naphthalene	128	9.829	9.829	(1.236)	556398	19.8177	19.8177	
119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	207382	19.3142	19.3142	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

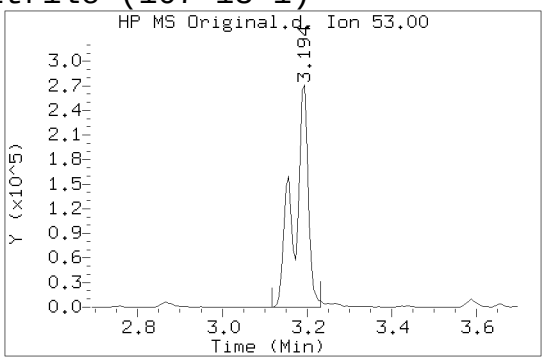

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
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-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
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Page 1

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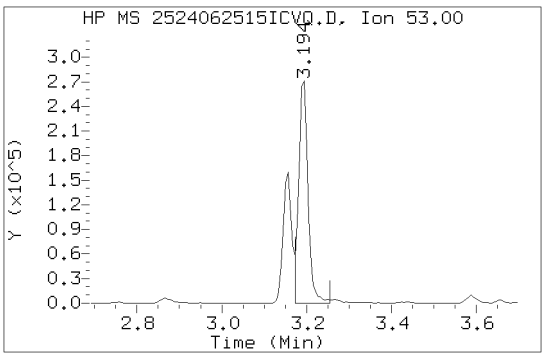
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Reason Code: MP

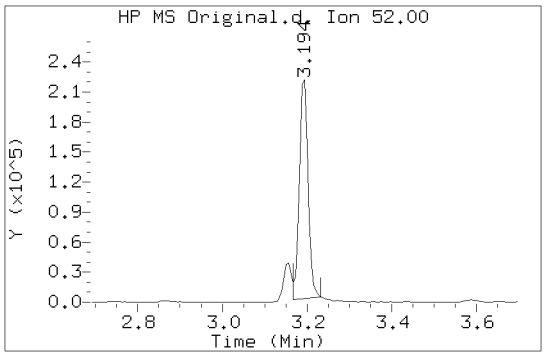
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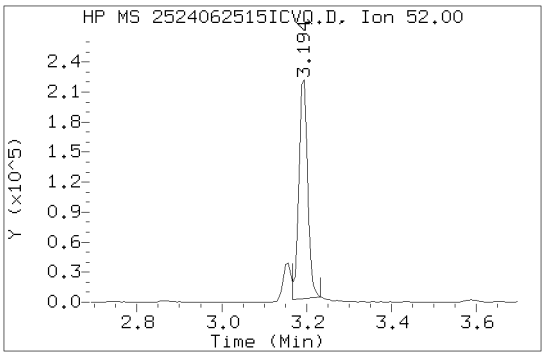
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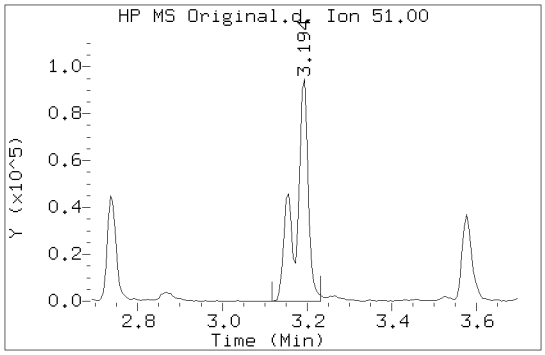
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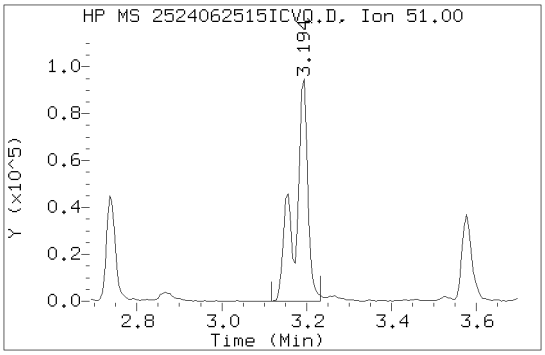
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BEFORE
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25-Jun-2024
19:15



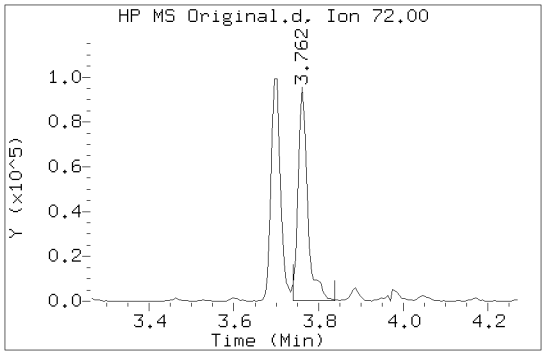
AFTER
MASS
51
AREA
202318
HEIGHT
94832
25-Jun-2024
19:30



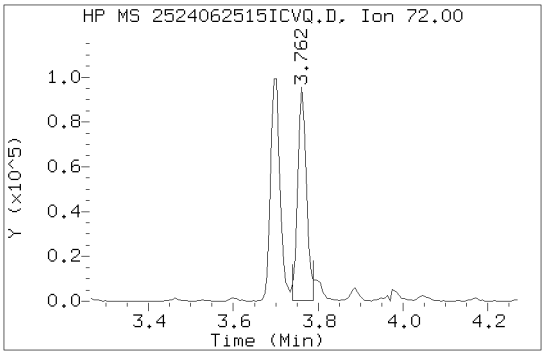
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
149078
HEIGHT
95221
25-Jun-2024
19:15



AFTER
MASS
72
AREA
137862
HEIGHT
95221
25-Jun-2024
19:30



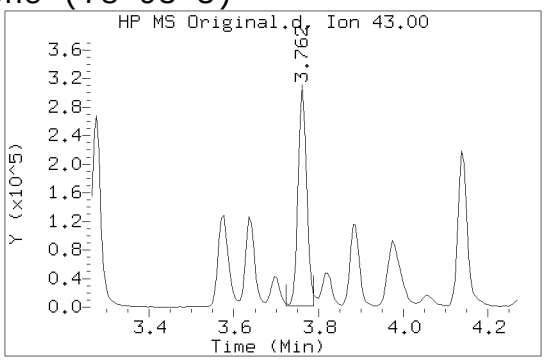
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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

2-Butanone (78-93-3)

Reason Code: MP

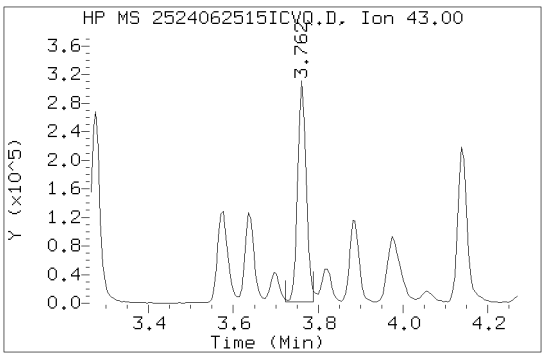
BEFORE

MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:15



AFTER

MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:30

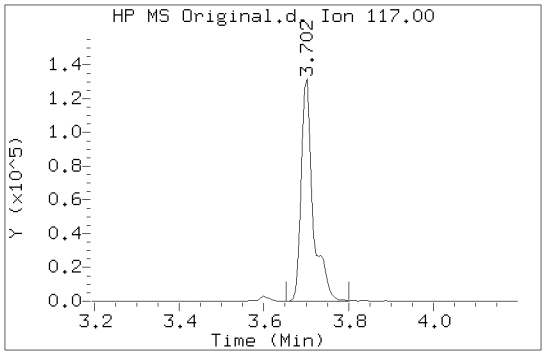


Carbon Tetrachloride (56-23-5)

Reason Code: MP

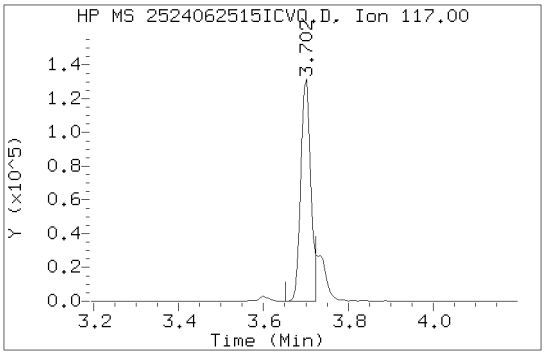
BEFORE

MASS
117
AREA
258670
HEIGHT
131712
25-Jun-2024
19:15



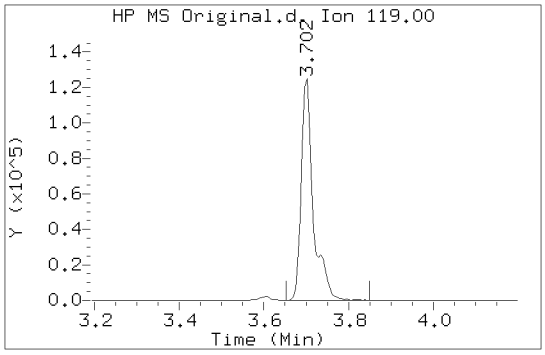
AFTER

MASS
117
AREA
217824
HEIGHT
131712
25-Jun-2024
19:30



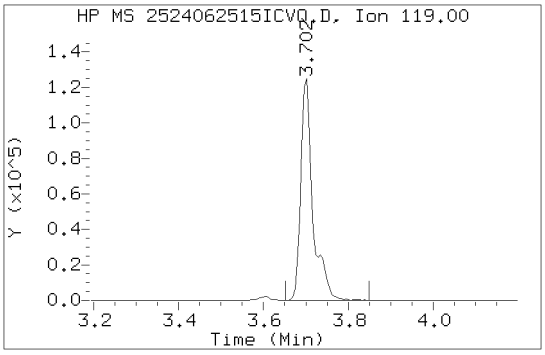
BEFORE

MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:15



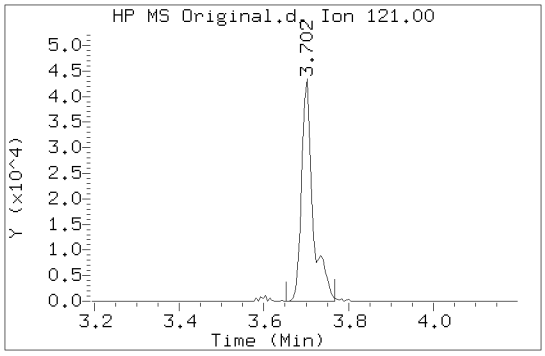
AFTER

MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:30



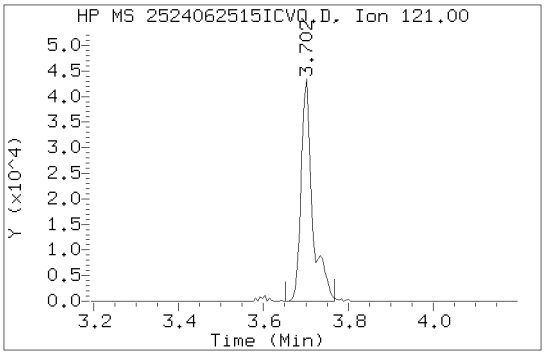
BEFORE

MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:15



AFTER

MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:30

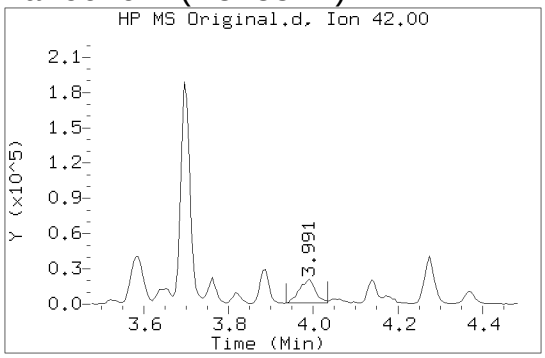


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LabSampID : ICVQ

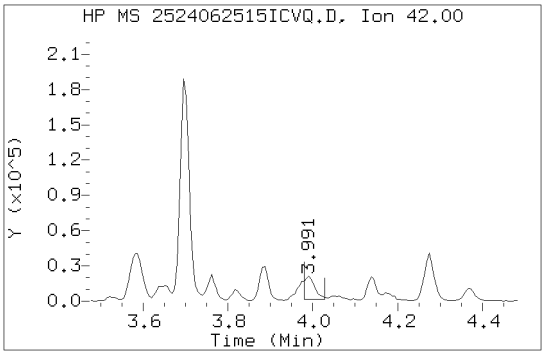
Isobutyl alcohol (78-83-1)

Reason Code: MP

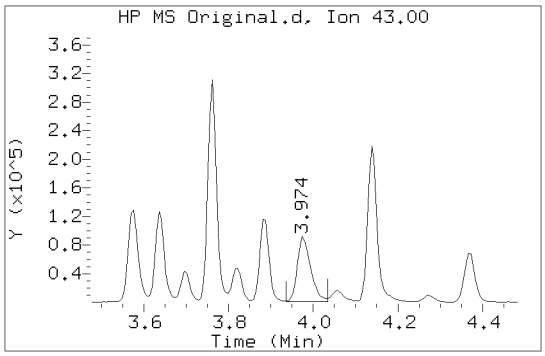
BEFORE
MASS
42
AREA
52636
HEIGHT
20290
25-Jun-2024
19:15



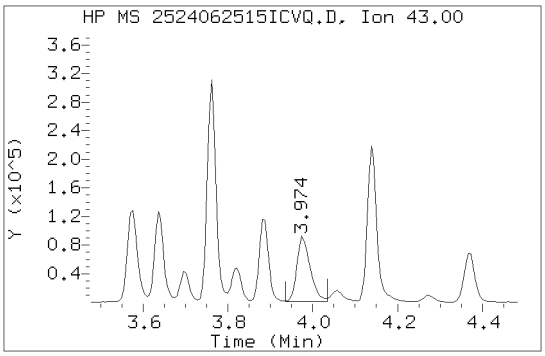
AFTER
MASS
42
AREA
34211
HEIGHT
19874
25-Jun-2024
19:30



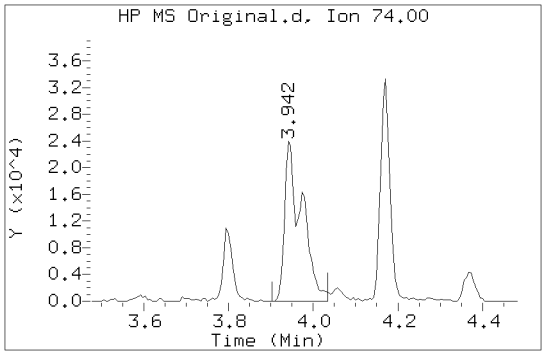
BEFORE
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:15



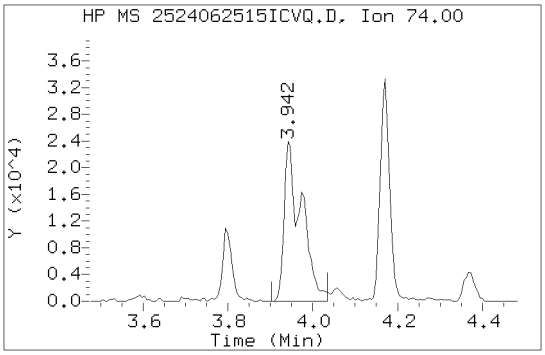
AFTER
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:30



BEFORE
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:15



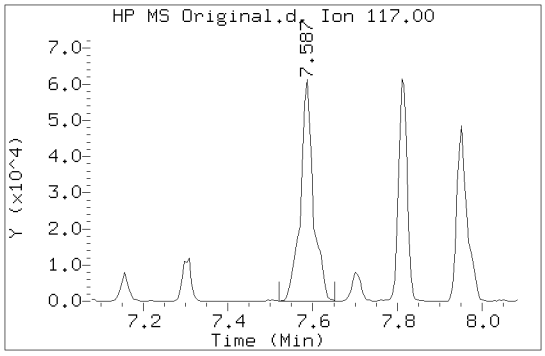
AFTER
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:30



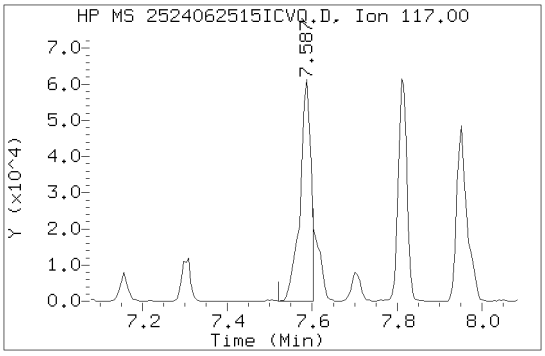
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
129320
HEIGHT
61344
25-Jun-2024
19:15



AFTER
MASS
117
AREA
109789
HEIGHT
61344
25-Jun-2024
19:30

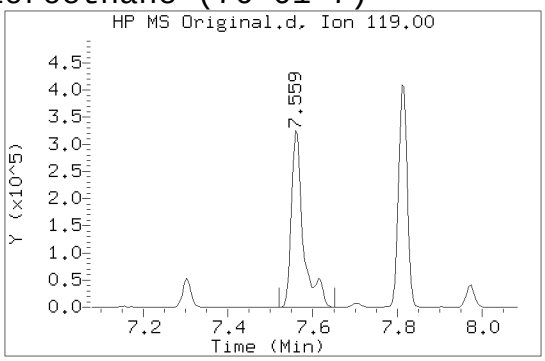


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LabSampID : ICVQ

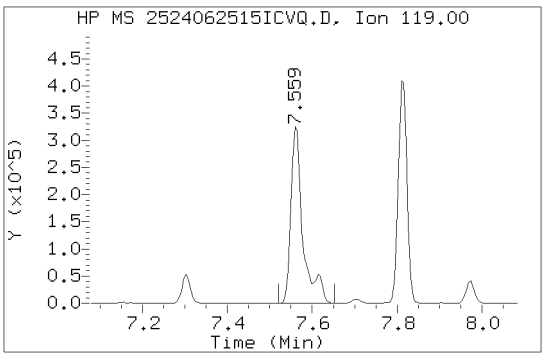
Pentachloroethane (76-01-7)

Reason Code: MP

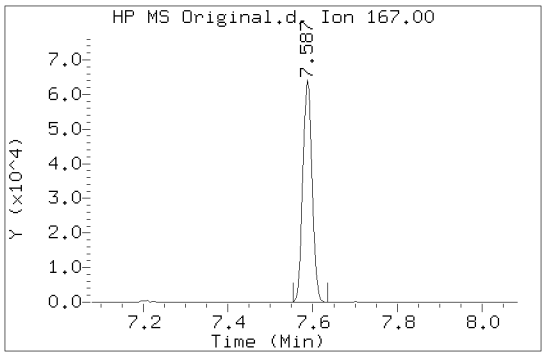
BEFORE
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:15



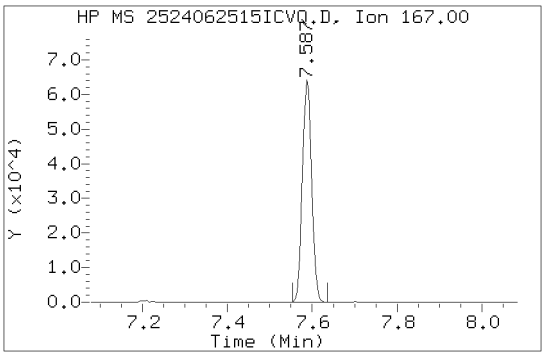
AFTER
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:30



BEFORE
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:15



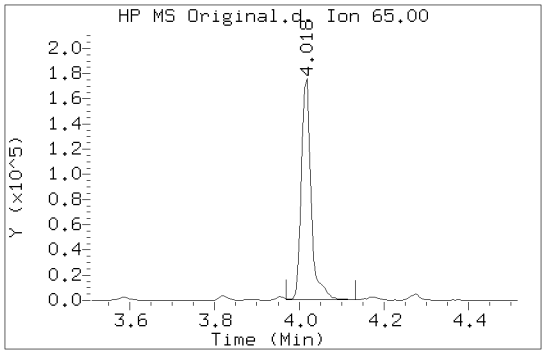
AFTER
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:30



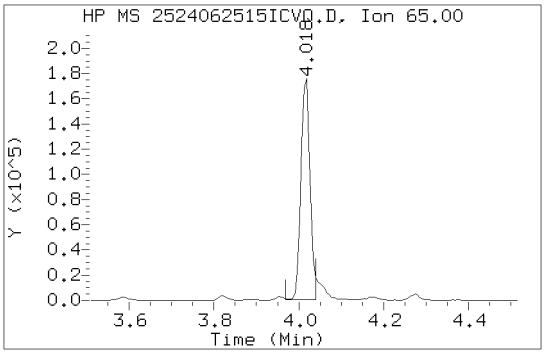
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

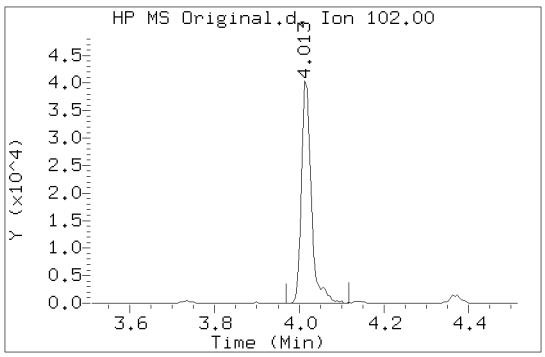
BEFORE
MASS
65
AREA
281156
HEIGHT
175231
25-Jun-2024
19:15



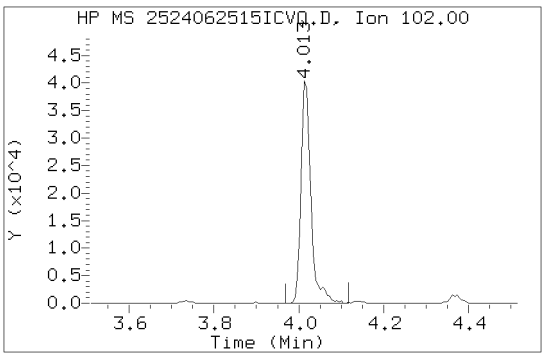
AFTER
MASS
65
AREA
262361
HEIGHT
175231
25-Jun-2024
19:30



BEFORE
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:15



AFTER
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:30



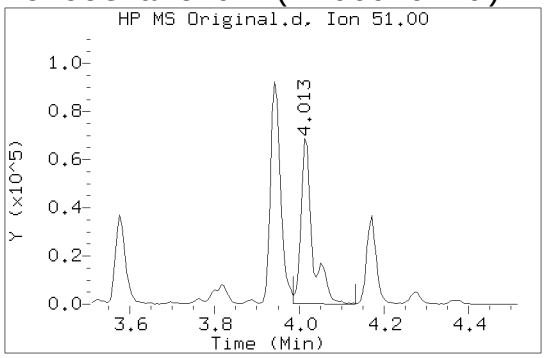
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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

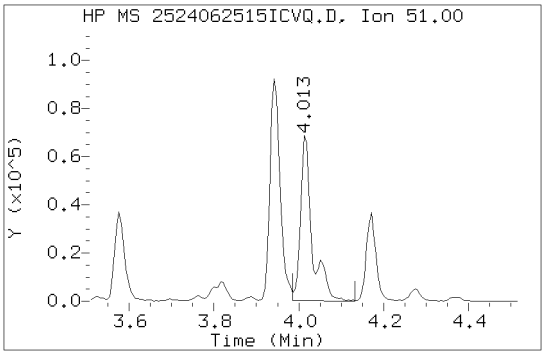
BEFORE

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:15



AFTER

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:30



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:30
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406251
Inj Date: 25-JUN-2024 15:08
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062532.D Page 1
Report Date: 25-Jun-2024 21:56

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Lab Smp Id: 1801
Inj Date : 25-JUN-2024 20:54
Operator : ILY Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	525294	45.8314	45.8314	
2 Chloromethane	50	1.644	1.645	(0.394)	479677	47.9181	47.9181	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	607277	46.8693	46.8693	
4 Bromomethane	94	1.922	1.923	(0.461)	329775	53.2020	53.2020	
5 Chloroethane	64	2.004	2.005	(0.481)	405653	46.3273	46.3273	
6 Pentane	41	2.092	2.092	(0.502)	324450	39.9703	39.9703	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	810436	45.6648	45.6648	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	867118	52.8033	52.8033	
9 Ethyl Ether	74	2.277	2.278	(0.546)	272722	54.6128	54.6128	
10 1,1-Dichloroethene	61	2.414	2.409	(0.579)	508553	51.0347	51.0347	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	1095807	50.9771	50.9771	
11 Freon 113	101	2.424	2.425	(0.581)	337214	48.1126	48.1126	
13 Iodomethane	127	2.506	2.507	(0.601)	181958	47.1306	47.1306	
14 Acrolein	56	2.599	2.600	(0.623)	408273	254.008	254.008	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	437614	50.3967	50.3967	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	131858	250.983	250.983	
17 Methylene Chloride	84	2.741	2.741	(0.657)	438346	53.8528	53.8528	
18 Acetone	58	2.757	2.752	(0.661)	224851	249.331	249.331	
19 Methyl acetate	74	2.817	2.812	(0.676)	101212	54.6756	54.6756	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	518305	53.1055	53.1055	
21 Hexane	57	2.866	2.867	(0.687)	711782	43.8068	43.8068	

Data File: 2524062532.D
Report Date: 25-Jun-2024 21:56

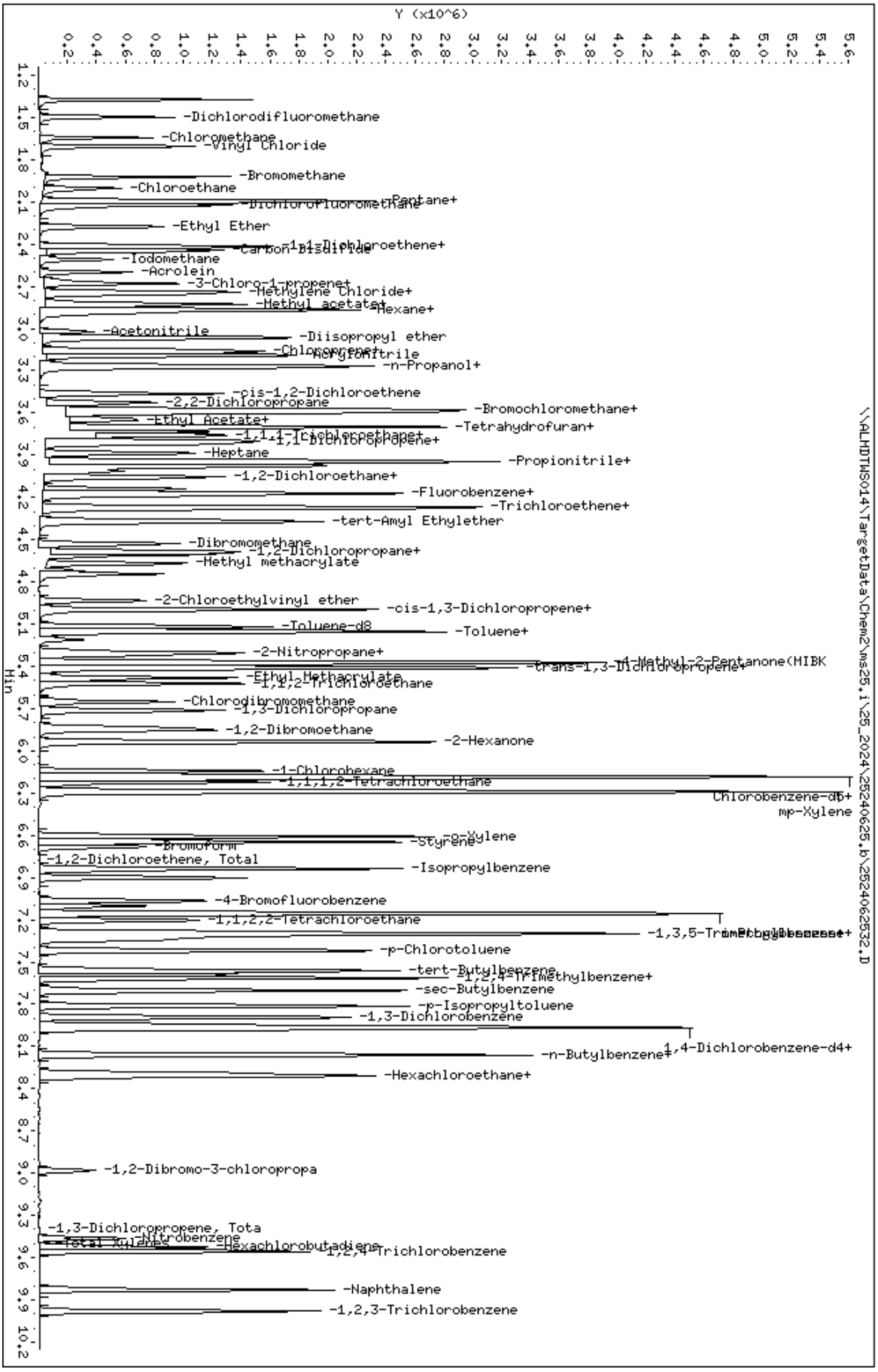
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1267674	50.6252	50.6252	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	246956	274.312	274.312	
	24 Acetonitrile	41	3.019	3.020	(0.724)	280006	277.663	277.663	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1203908	55.5801	55.5801	
	26 Chloroprene	53	3.156	3.156	(0.757)	591465	53.8591	53.8591	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	713253	53.6411	53.6411	
	28 Acrylonitrile	53	3.188	3.194	(0.765)	981416	283.404	283.404(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	218709	512.517	512.517	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1299982	56.5071	56.5071	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	105989	46.7240	46.7240(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	531630	53.7214	53.7214	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	446069	42.0914	42.0914	
M	100 1,2-Dichloroethene, Total	61				1049935	106.827	106.827	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	242746	56.8813	56.8813	
	35 Cyclohexane	84	3.587	3.587	(0.860)	585418	49.3020	49.3020	
	36 Chloroform	83	3.603	3.598	(0.864)	784870	54.6784	54.6784	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	429365	49.8859	49.8859	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	441224	55.3689	55.3689	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	499575	47.3403	47.3403(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	658634	270.358	270.358	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	238727	29.2088	29.2088	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	596876	53.4226	53.4226	
	43 2-Butanone	72	3.761	3.767	(0.902)	313984	266.609	266.609(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	538663	50.9692	50.9692	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	338956	49.8736	49.8736	
	46 Heptane	71	3.887	3.887	(0.932)	241675	39.3605	39.3605	
	48 Propionitrile	54	3.941	3.942	(0.945)	370497	282.534	282.534	
	47 Benzene	78	3.941	3.942	(0.945)	1660781	51.1268	51.1268	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	216882	55.1721	55.1721	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	1268373	57.1151	57.1151	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	252196	29.2716	29.2716(QM)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	112290	560.978	560.978(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	541498	53.0284	53.0284	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	181059	262.129	262.129	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1035841	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	892825	44.3524	44.3524	
	57 Trichloroethene	95	4.269	4.269	(1.024)	414129	50.3734	50.3734	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	612081	48.8072	48.8072	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	970569	50.1385	50.1385	
	60 Dibromomethane	93	4.525	4.526	(1.085)	288229	55.4586	55.4586	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	427891	54.7311	54.7311	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	537769	49.4596	49.4596	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	355887	57.5178	57.5178	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	273371	47.7950	47.7950	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	665996	50.9131	50.9131	
	67 Octane	85	5.000	5.000	(0.810)	199779	42.0144	42.0144	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	933963	30.5118	30.5118	
	69 Toluene	92	5.153	5.153	(0.835)	1004603	51.7805	51.7805	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	135807	280.797	280.797	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	543687	255.508	255.508	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	52704	256.192	256.192(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2153105	280.899	280.899	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	612827	50.5932	50.5932	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	399230	56.5110	56.5110	

Data File: 2524062532.D
Report Date: 25-Jun-2024 21:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.481	(0.888)	626868	53.5835	53.5835	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	339266	56.9151	56.9151	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	440113	52.0694	52.0694	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	686667	58.3036	58.3036	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	422049	53.1777	53.1777	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1441053	274.053	274.053	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	526774	51.6113	51.6113	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	386622	30.0000		
	85 Ethylbenzene	106	6.189	6.190	(1.003)	584392	50.5549	50.5549	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1118023	56.5483	56.5483	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	390118	52.2450	52.2450	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1403951	102.305	102.305	
M	120 1,3-Dichloropropene, Total	75				1278823	101.506	101.506	
	88 o-Xylene	106	6.610	6.610	(1.071)	674772	51.2855	51.2855	
	89 Styrene	104	6.648	6.648	(0.836)	1109684	52.2144	52.2144	
	90 Bromoform	173	6.680	6.686	(0.840)	300814	50.1219	50.1219	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1511311	51.0241	51.0241	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	310618	31.2554	31.2554	
M	121 TOTAL XYLENES	106				2078723	153.590	153.590	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	467813	53.8641	53.8641	
	93 Bromobenzene	156	7.155	7.156	(0.900)	475757	56.0151	56.0151	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	494856	58.6199	58.6199	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	1315592	54.4278	54.4278	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1282789	56.1388	56.1388	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	154034	56.5737	56.5737	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	124784	48.1811	48.1811(Q)	
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	1158317	55.9641	55.9641	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	322322	55.7554	55.7554	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	268063	46.1989	46.1989(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1320277	51.5885	51.5885	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	1665313	55.7445	55.7445	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	370347	54.1351	54.1351	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	799382	55.8659	55.8659	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	359232	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	813676	54.5545	54.5545	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	324917	50.8228	50.8228(Q)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	121588	34.1616	34.1616(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	246708	48.1401	48.1401	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	780850	57.2885	57.2885	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	82002	50.7864	50.7864	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	250676	476.139	476.139	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	204556	45.3862	45.3862	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	503609	55.7932	55.7932	
	118 Naphthalene	128	9.829	9.829	(1.236)	1345077	50.6923	50.6923	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	498818	49.1889	49.1889	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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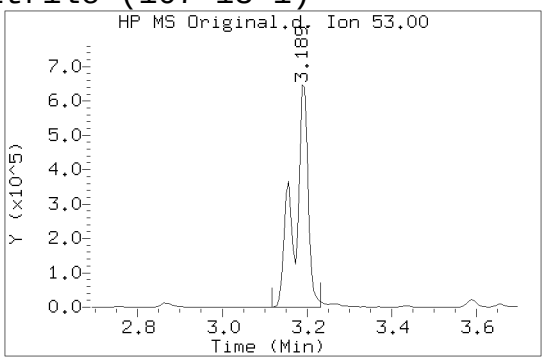
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Operator: ILY
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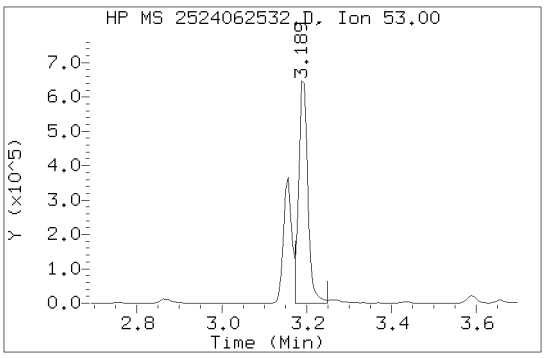
Acrylonitrile (107-13-1)

Reason Code: MP

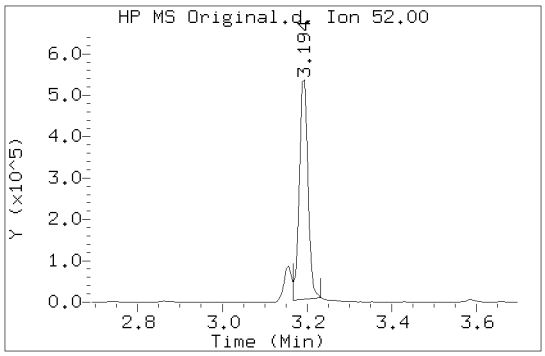
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25-Jun-2024
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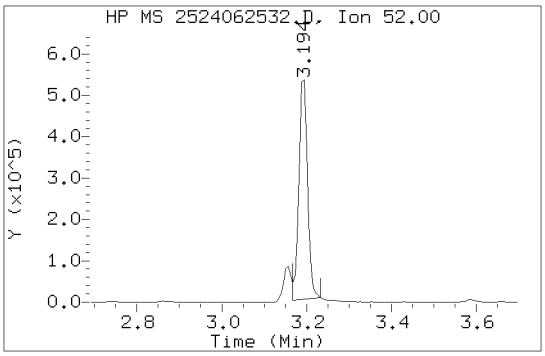
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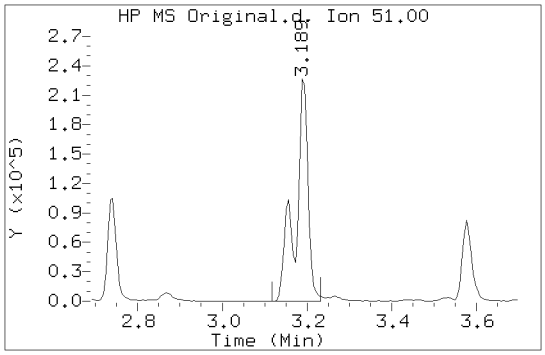
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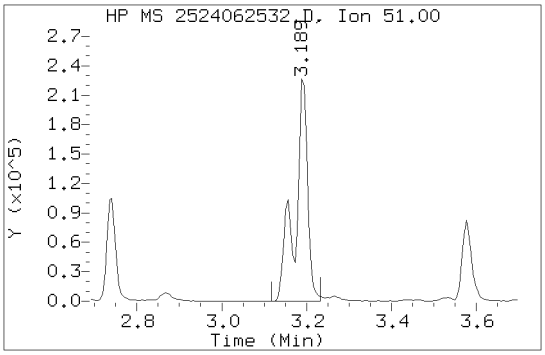
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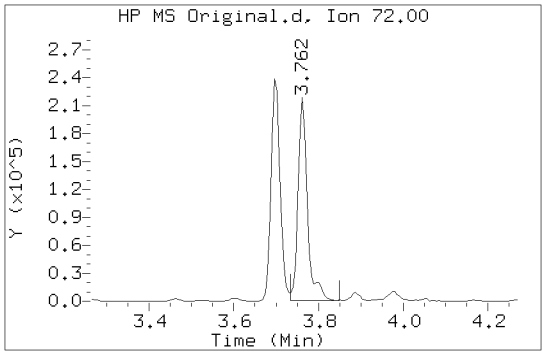
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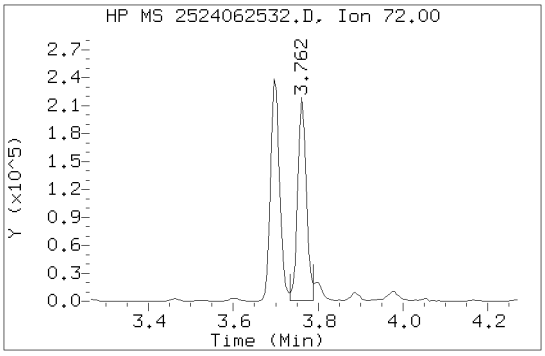
2-Butanone (78-93-3)

Reason Code: MP

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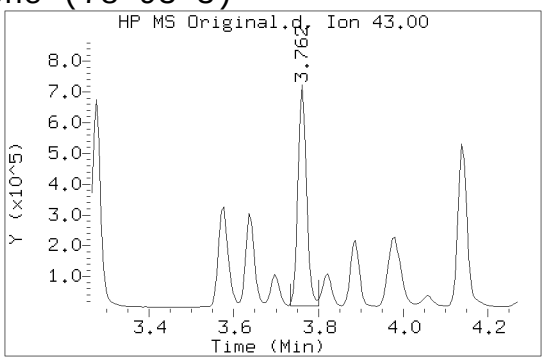


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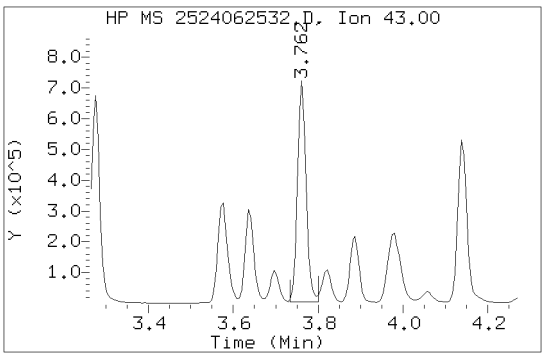
2-Butanone (78-93-3)

Reason Code: MP

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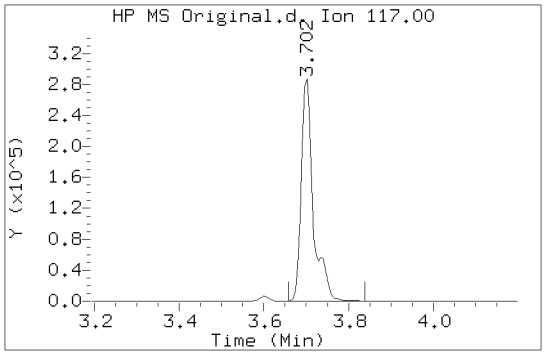
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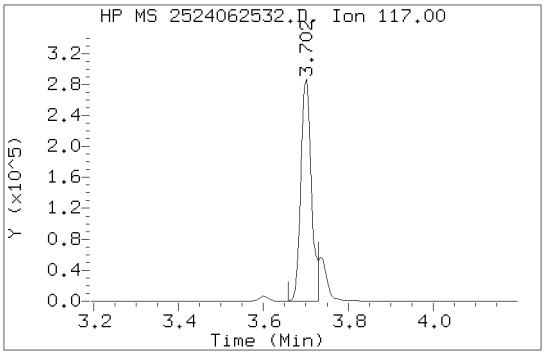
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Reason Code: MP

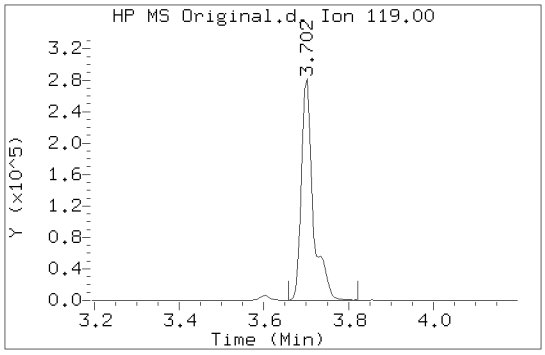
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25-Jun-2024
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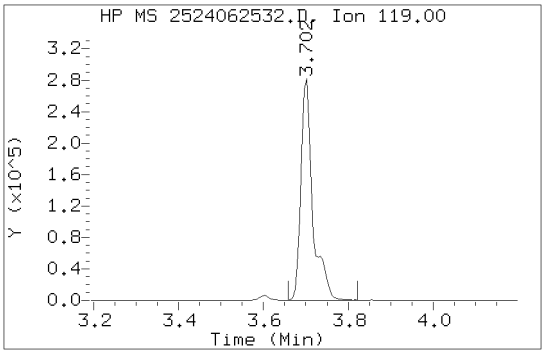
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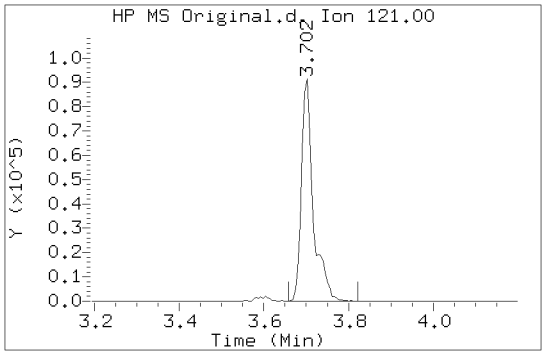
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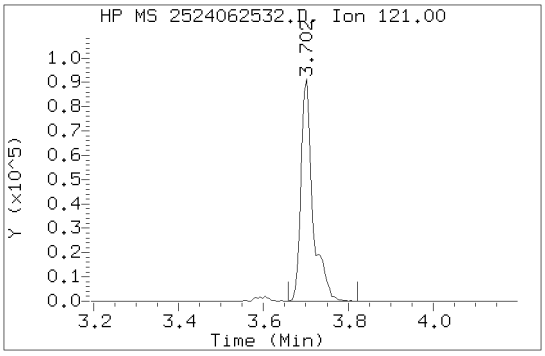
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BEFORE
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AFTER
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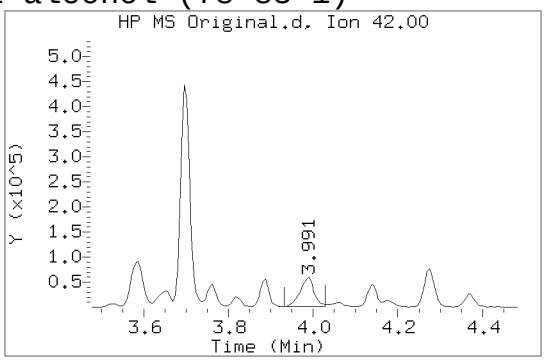


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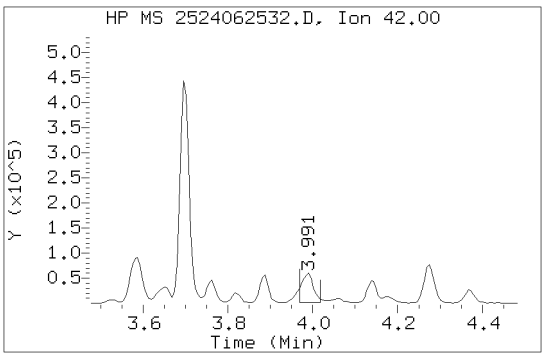
Isobutyl alcohol (78-83-1)

Reason Code: MP

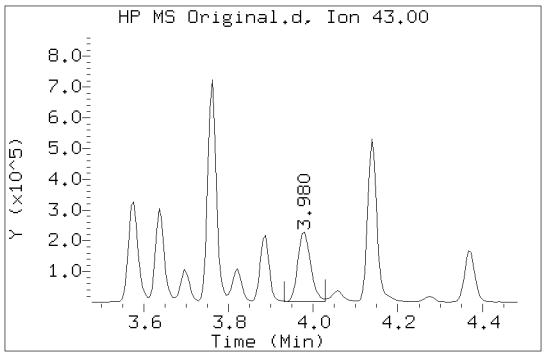
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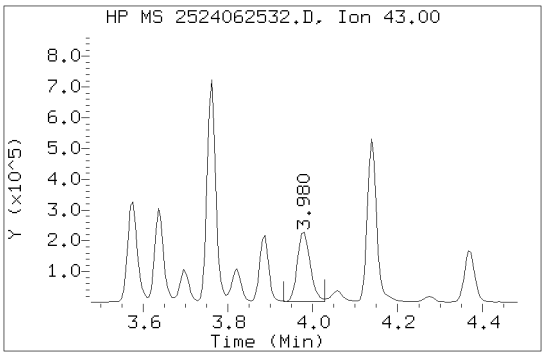
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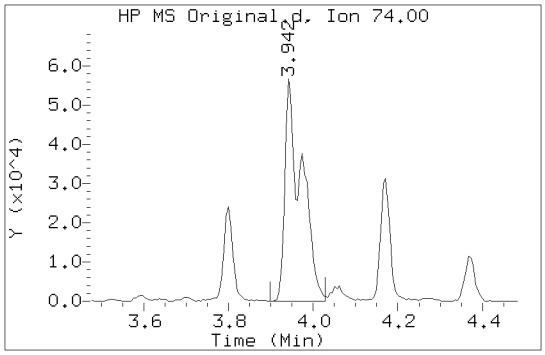
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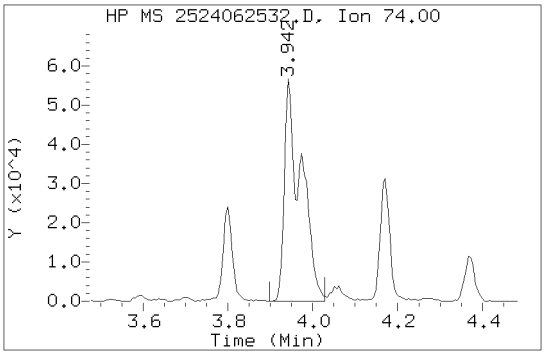
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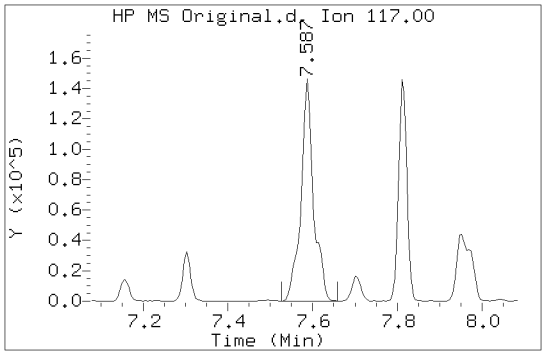
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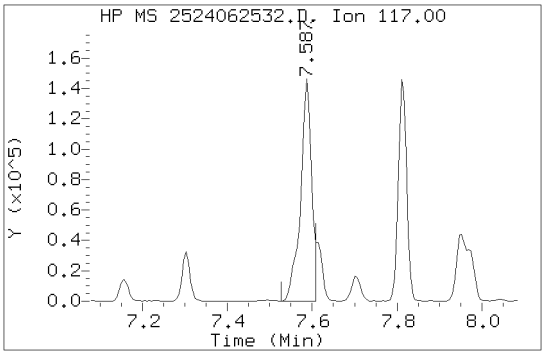
Pentachloroethane (76-01-7)

Reason Code: MP

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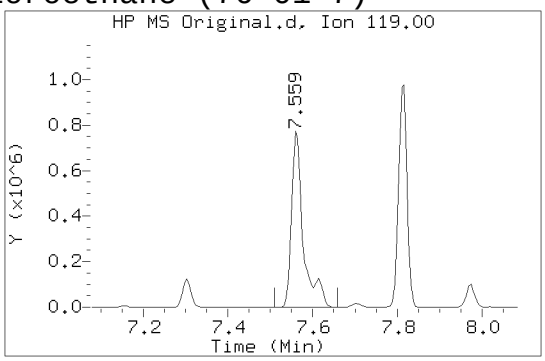
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InstruID : ms25.i
LabSampID : 1801

Pentachloroethane (76-01-7)

Reason Code: MP

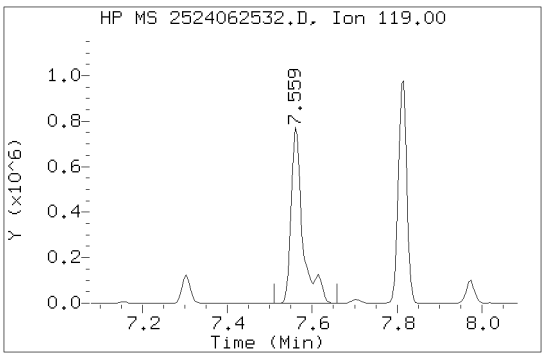
BEFORE

MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:54



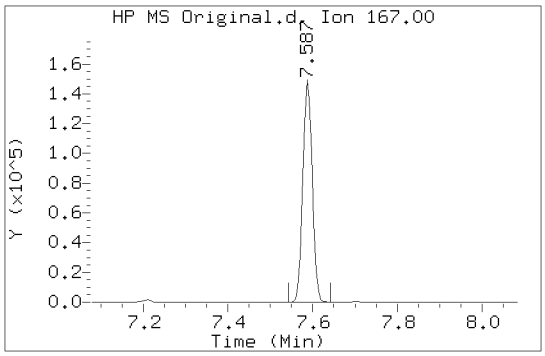
AFTER

MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:56



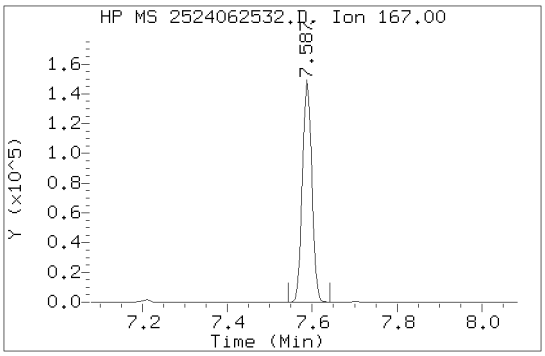
BEFORE

MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:54



AFTER

MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:56

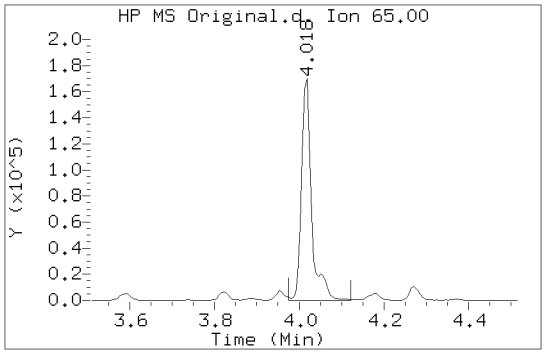


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

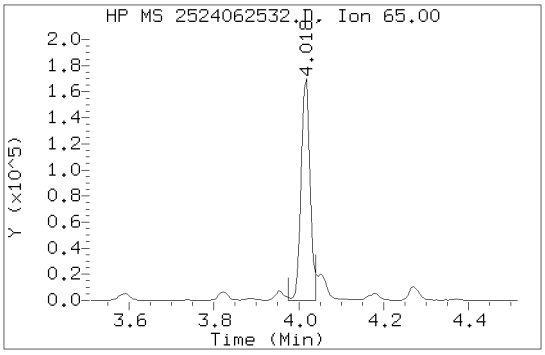
BEFORE

MASS
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AREA
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HEIGHT
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25-Jun-2024
21:54



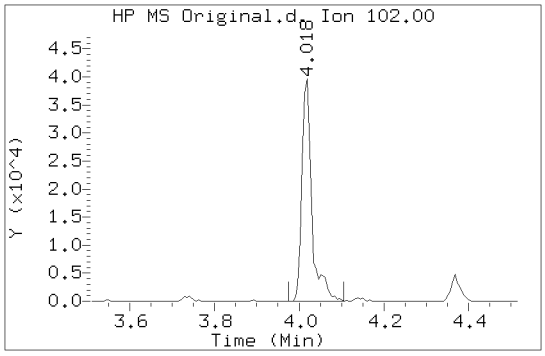
AFTER

MASS
65
AREA
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HEIGHT
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25-Jun-2024
21:56



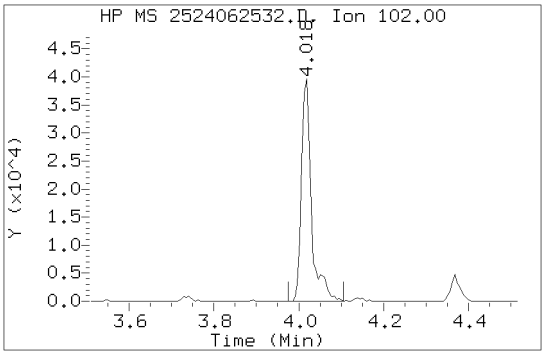
BEFORE

MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:54



AFTER

MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:56



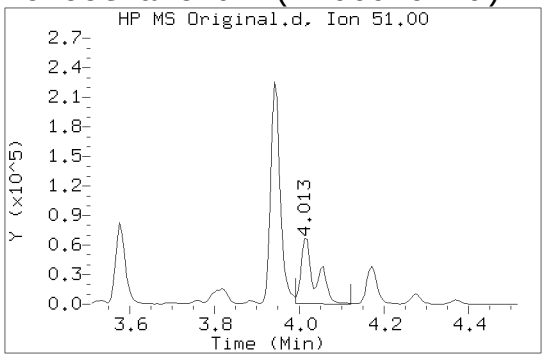
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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

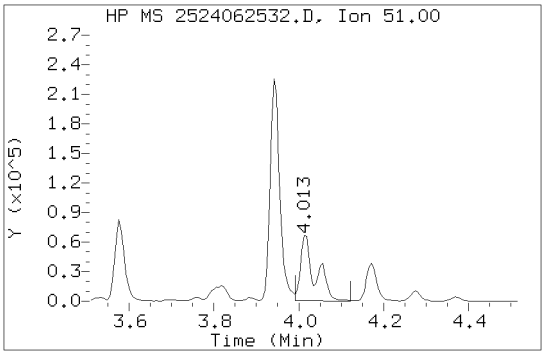
BEFORE

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:54



AFTER

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:56



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 21:56
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406253
Inj Date: 25-JUN-2024 20:54
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240628

Volatiles by EPA 8260D

Workorder

3366028

Client

ALS Houston

Project

AHH132|HS24060985

07/09/2024

www.alsglobal.com

Data File: 2524062800.D Page 1
Report Date: 28-Jun-2024 09:14

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Lab Smp Id: 1000
Inj Date : 28-JUN-2024 09:00
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
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: NAMDTW7026

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	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.057	8.129	(0.000)	95	93616			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	17312			15.00- 40.00	18.49
7.057	8.129	(0.000)	75	44616			30.00- 60.00	47.66
7.057	8.129	(0.000)	96	6656			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	365			0.00- 2.00	0.45
7.057	8.129	(0.000)	174	80744			50.00- 0.00	86.25
7.057	8.129	(0.000)	175	6388			5.00- 9.00	7.91
7.057	8.129	(0.000)	176	79000			95.00- 101.00	97.84
7.057	8.129	(0.000)	177	5283			5.00- 9.00	6.69

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

Data File: 2524062800.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	757	63.00	3165	93.00	4170	141.00	929
37.00	4461	64.00	307	94.00	11214	142.00	64
38.00	3788	67.00	394	95.00	93616	143.00	860
39.00	1350	68.00	9611	96.00	6656	146.00	108
42.00	64	69.00	9495	97.00	376	148.00	287
43.00	135	70.00	902	103.00	209	155.00	209
44.00	493	72.00	433	104.00	339	156.00	89
45.00	600	73.00	3819	105.00	167	157.00	96
46.00	53	74.00	15201	106.00	474	161.00	187
47.00	1205	75.00	44616	107.00	63	171.00	160
48.00	559	76.00	3932	115.00	114	172.00	225
49.00	3803	77.00	634	116.00	339	173.00	365
50.00	17312	78.00	468	117.00	539	174.00	80744
51.00	5693	79.00	3121	118.00	435	175.00	6388
52.00	388	80.00	840	119.00	441	176.00	79000
55.00	368	81.00	2972	128.00	495	177.00	5283
56.00	1499	82.00	658	129.00	95	178.00	62
57.00	2555	83.00	130	130.00	381	211.00	195
58.00	53	87.00	4011	131.00	126		
60.00	1008	88.00	4363	135.00	67		
61.00	4464	91.00	335	137.00	264		
62.00	3919	92.00	2757	140.00	52		

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D

Date : 28-JUN-2024 09:00

Client ID:

Instrument: ms25.i

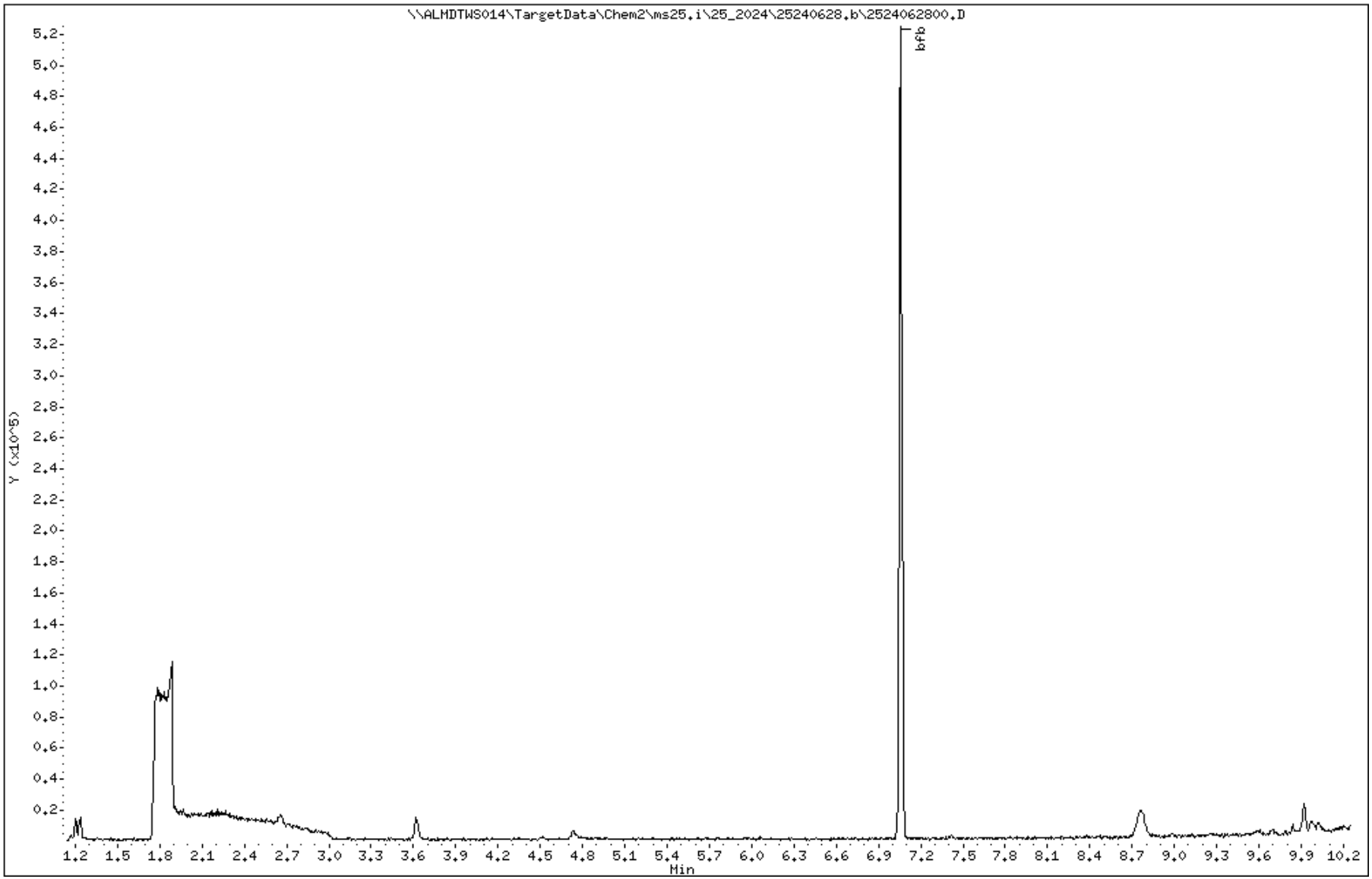
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: TMP

Column phase: DB624

Column diameter: 0.53



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Inj Date : 28-JUN-2024 09:00
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062801.D Page 1
Report Date: 30-Jun-2024 14:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062801.D
Lab Smp Id: 1800
Inj Date : 28-JUN-2024 09:53
Operator : TMP Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	522975	50.0000	45.5603	
2 Chloromethane	50	1.644	1.644	(0.394)	498166	50.0000	49.6944	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	622041	50.0000	47.9365	
4 Bromomethane	94	1.922	1.922	(0.461)	330884	50.0000	53.3014	
5 Chloroethane	64	2.004	2.004	(0.481)	418408	50.0000	47.7213	
6 Pentane	41	2.092	2.092	(0.502)	346589	50.0000	42.7039	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	836914	50.0000	47.0857	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	838647	50.0000	50.9927	
9 Ethyl Ether	74	2.277	2.277	(0.546)	259287	50.0000	51.8443	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	486093	50.0000	48.7074	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	1060410	50.0000	49.2562	
11 Freon 113	101	2.424	2.424	(0.581)	336781	50.0000	47.9785	
13 Iodomethane	127	2.506	2.506	(0.601)	190868	50.0000	49.3398	
14 Acrolein	56	2.599	2.599	(0.623)	394338	250.000	244.969	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	423514	50.0000	48.7054	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	136872	250.000	260.250	
17 Methylene Chloride	84	2.741	2.741	(0.657)	415804	50.0000	51.0065	
18 Acetone	58	2.752	2.752	(0.660)	216587	250.000	239.805	
19 Methyl acetate	74	2.817	2.817	(0.676)	87587	50.0000	47.1866	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	503858	50.0000	51.5475	
21 Hexane	57	2.866	2.866	(0.687)	766982	50.0000	47.1553	

Data File: 2524062801.D Page 2
Report Date: 30-Jun-2024 14:58

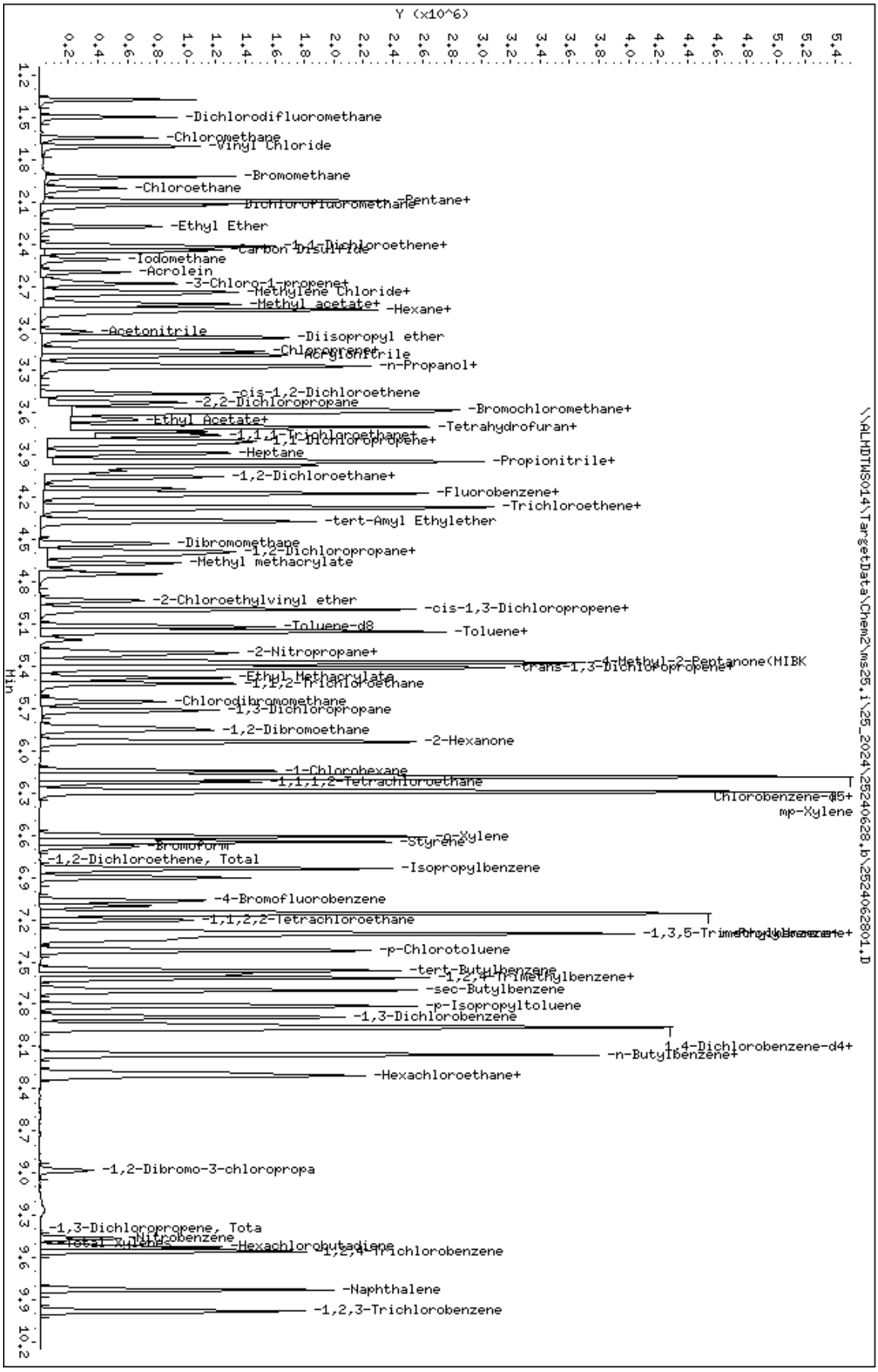
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1224730	50.0000	48.8448	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	229444	250.000	254.476	
	24 Acetonitrile	41	3.019	3.019	(0.724)	269805	250.000	267.144	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1162416	50.0000	53.5838	
	26 Chloroprene	53	3.156	3.156	(0.757)	586187	50.0000	53.2981	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	696701	50.0000	52.3174	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	943483	250.000	272.040(M)	MP
	30 n-Propanol	41	3.265	3.265	(0.783)	212630	500.000	497.521	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1250326	50.0000	54.2669	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	105996	50.0000	46.6572	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	515189	50.0000	51.9816	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	541182	50.0000	50.9894	
M	100 1,2-Dichloroethene, Total	61				1019047	100.000	103.529	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	225522	50.0000	52.7657	
	35 Cyclohexane	84	3.592	3.592	(0.861)	575162	50.0000	48.3654	
	36 Chloroform	83	3.598	3.598	(0.863)	727311	50.0000	50.5922	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	414353	50.0000	48.0661	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	418844	50.0000	52.4813	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	456704	50.0000	43.2489(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	628267	250.000	257.505	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	239748	30.0000	29.2895	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	573212	50.0000	51.2274	
	43 2-Butanone	72	3.761	3.761	(0.902)	293285	250.000	248.658(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	536580	50.0000	50.6957	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	331584	50.0000	48.7154	
	46 Heptane	71	3.887	3.887	(0.932)	293493	50.0000	47.7279	
	48 Propionitrile	54	3.941	3.941	(0.945)	357280	250.000	272.044	
	47 Benzene	78	3.941	3.941	(0.945)	1602139	50.0000	49.2473	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	206876	50.0000	52.5475	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1204105	50.0000	54.1395	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	250186	30.0000	28.9946(M)	MP
	54 Isobutyl alcohol	42	3.985	3.985	(0.956)	103812	500.000	518.152(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	524527	50.0000	51.2891	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	178309	250.000	257.759	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1037403	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	931592	50.0000	46.2717	
	57 Trichloroethene	95	4.269	4.269	(1.024)	415600	50.0000	50.4763	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	635200	50.0000	49.5114	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	942938	50.0000	48.6456	
	60 Dibromomethane	93	4.525	4.525	(1.085)	273495	50.0000	52.5444	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	410545	50.0000	52.4333	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	507307	50.0000	46.6069	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	335986	50.0000	54.2196	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	267474	50.0000	46.7021	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	664624	50.0000	49.6722	
	67 Octane	85	5.000	5.000	(0.810)	247791	50.0000	50.9393	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	930097	30.0000	29.7020	
	69 Toluene	92	5.153	5.153	(0.835)	963088	50.0000	48.5241	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	129683	250.000	262.103	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	513583	250.000	236.074	
	72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	50536	250.000	240.249	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2038160	250.000	259.997	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	602124	50.0000	48.6031	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	359744	50.0000	49.7763	

Data File: 2524062801.D Page 3
Report Date: 30-Jun-2024 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	596730	50.0000	49.8820	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	326226	50.0000	53.4964	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	407883	50.0000	47.2055	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	655351	50.0000	54.3929	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	393954	50.0000	48.5417	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1377785	250.000	256.199	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	543321	50.0000	52.0351	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395519	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	560990	50.0000	47.4305	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1057594	50.0000	52.2886	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	364641	50.0000	47.7621	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1360923	100.000	96.8971	
M	120 1,3-Dichloropropene, Total	75				1266748	100.000	98.2753	
	88 o-Xylene	106	6.610	6.610	(1.071)	649037	50.0000	48.2199	
	89 Styrene	104	6.648	6.648	(0.836)	1053521	50.0000	49.2274	
	90 Bromoform	173	6.680	6.680	(0.840)	272520	50.0000	45.1129	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1476432	50.0000	49.4875	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	293145	30.0000	29.2822	
M	121 TOTAL XYLENES	106				2009960	150.000	145.117	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	454683	50.0000	51.9708	
	93 Bromobenzene	156	7.155	7.155	(0.900)	443340	50.0000	51.8179	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	464231	50.0000	54.5914	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1283166	50.0000	52.6994	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1235746	50.0000	53.6860	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	146032	50.0000	53.2439	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	127893	50.0000	49.0166	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1121063	50.0000	53.7694	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	311370	50.0000	53.4684	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	280902	50.0000	48.0471(M)	
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1277802	50.0000	49.5590	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1633565	50.0000	54.2833	
	106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	372062	50.0000	53.9895	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	760008	50.0000	52.7271	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	361869	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	778069	50.0000	51.7870	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	338298	50.0000	52.5303	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	165312	50.0000	45.9437	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	230172	50.0000	44.6148	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	726959	50.0000	52.9460	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	76019	50.0000	46.7709	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	234976	500.000	446.343	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	216275	50.0000	47.6242	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	495994	50.0000	54.5492	
	118 Naphthalene	128	9.829	9.829	(1.236)	1264368	50.0000	47.3247	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	475468	50.0000	46.5604	

QC Flag Legend

M - Compound response manually integrated.



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Client ID:
Sample Info: 1800;1;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX

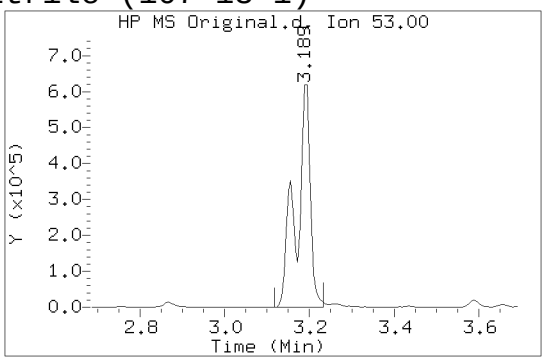
Instrument: ms25.i
Operator: THP
Column diameter: 0.25

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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

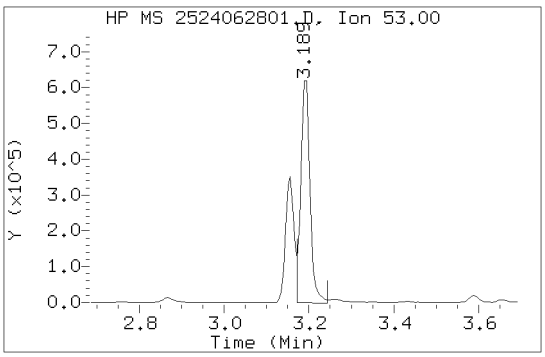
Acrylonitrile (107-13-1)

Reason Code: MP

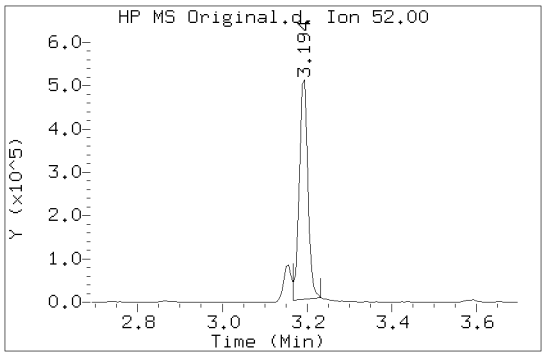
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53
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HEIGHT
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28-Jun-2024
10:05



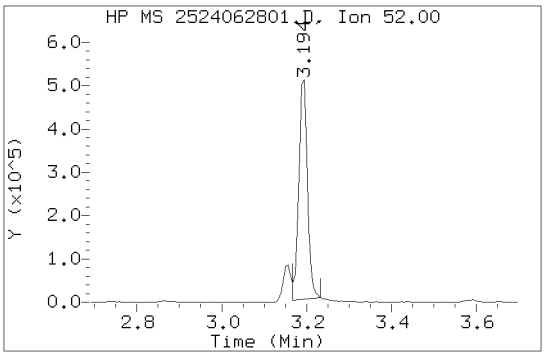
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53
AREA
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HEIGHT
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30-Jun-2024
14:58



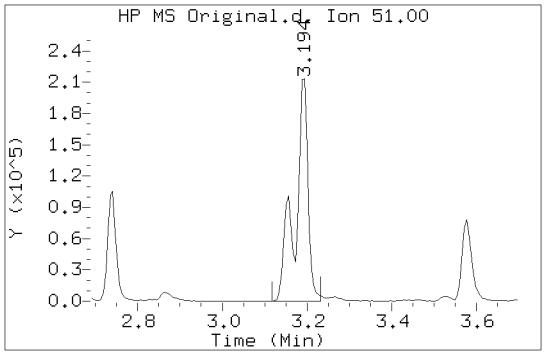
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MASS
52
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HEIGHT
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28-Jun-2024
10:05



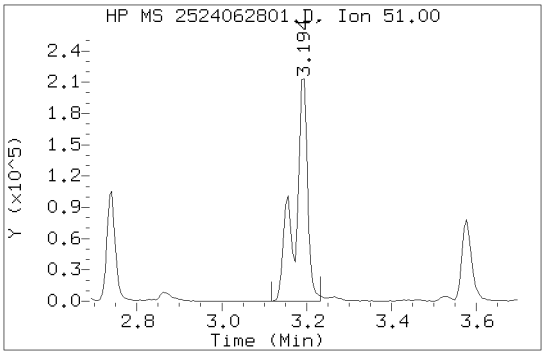
AFTER
MASS
52
AREA
720824
HEIGHT
506241
30-Jun-2024
14:58



BEFORE
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HEIGHT
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28-Jun-2024
10:05



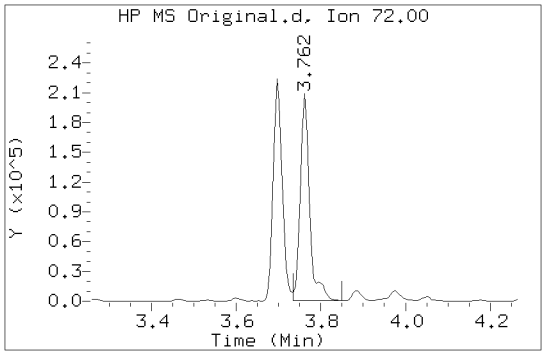
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HEIGHT
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30-Jun-2024
14:58



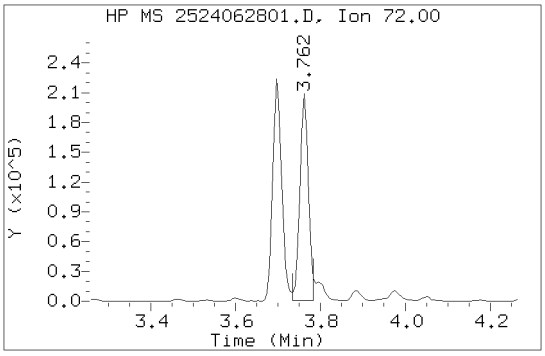
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
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322492
HEIGHT
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28-Jun-2024
10:05



AFTER
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AREA
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HEIGHT
208633
30-Jun-2024
14:58

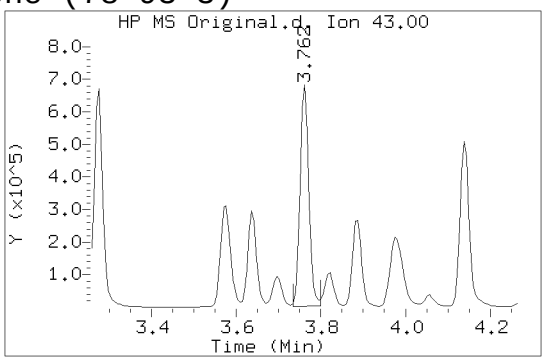


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LabSampID : 1800

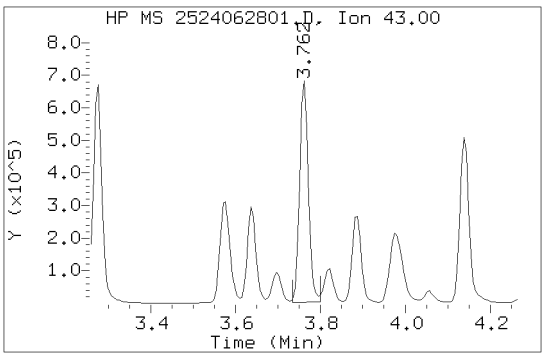
2-Butanone (78-93-3)

Reason Code: MP

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28-Jun-2024
10:05



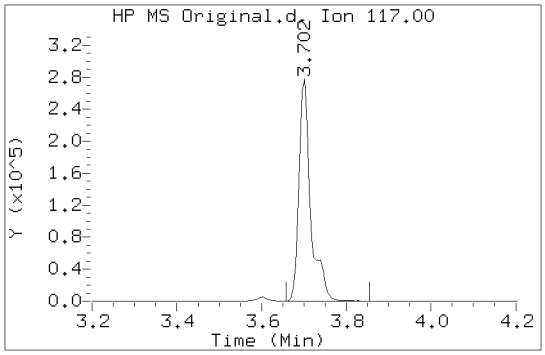
AFTER
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HEIGHT
679462
30-Jun-2024
14:58



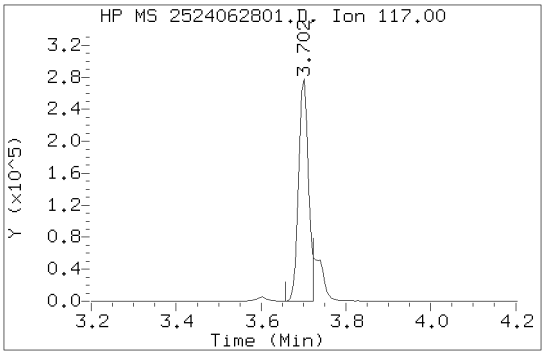
Carbon Tetrachloride (56-23-5)

Reason Code: MP

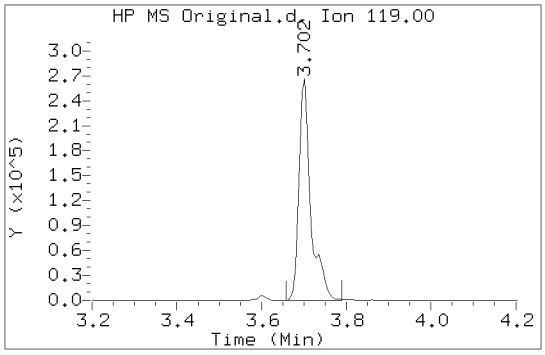
BEFORE
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117
AREA
535489
HEIGHT
277786
28-Jun-2024
10:05



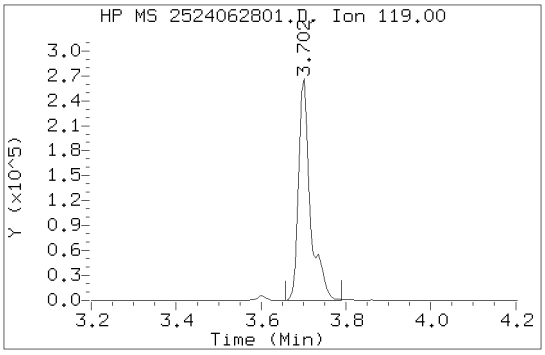
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AREA
456704
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277786
30-Jun-2024
14:58



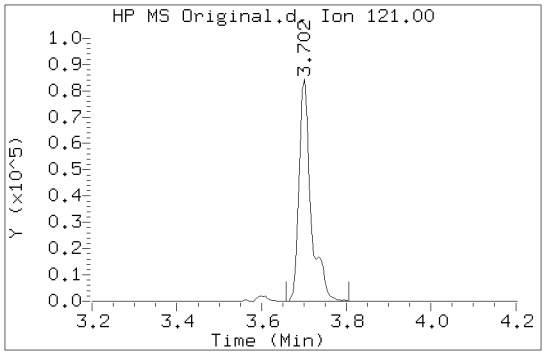
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28-Jun-2024
10:05



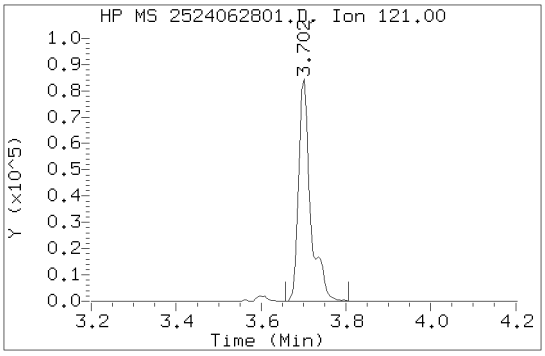
AFTER
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119
AREA
517595
HEIGHT
266560
30-Jun-2024
14:58



BEFORE
MASS
121
AREA
166401
HEIGHT
84520
28-Jun-2024
10:05



AFTER
MASS
121
AREA
166401
HEIGHT
84520
30-Jun-2024
14:58

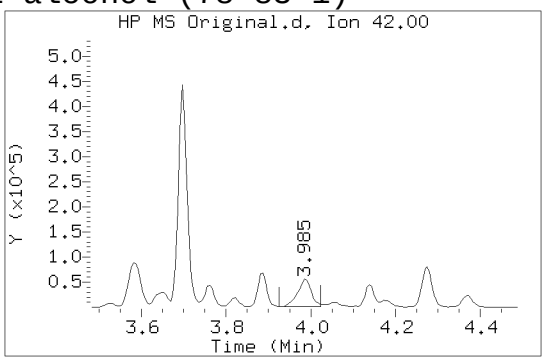


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LabSampID : 1800

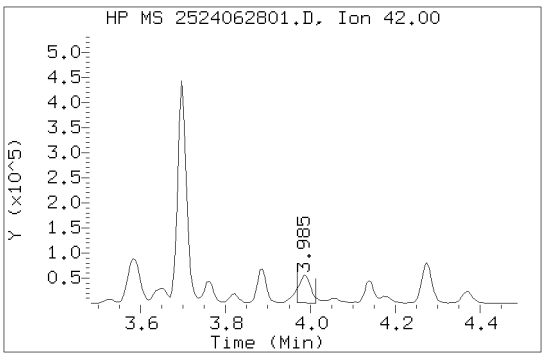
Isobutyl alcohol (78-83-1)

Reason Code: MP

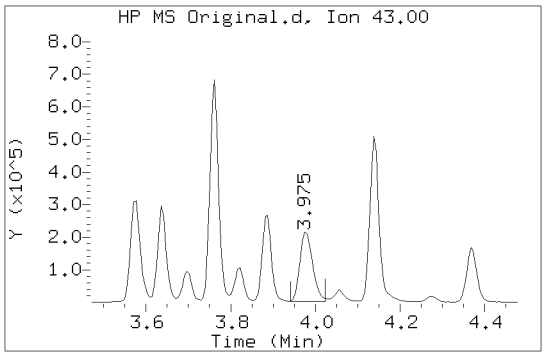
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MASS
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HEIGHT
55301
28-Jun-2024
10:05



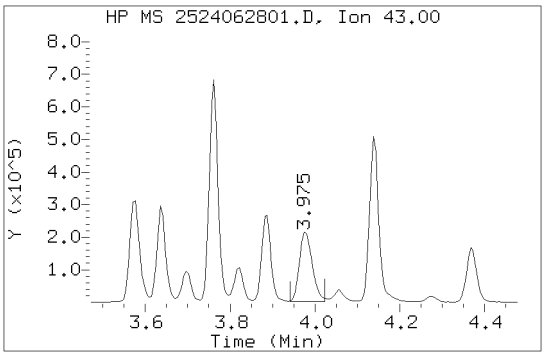
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55939
30-Jun-2024
14:58



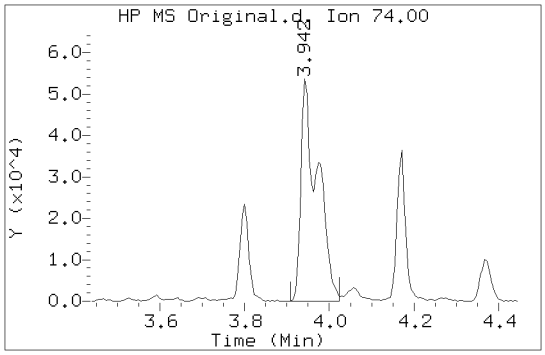
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43
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HEIGHT
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28-Jun-2024
10:05



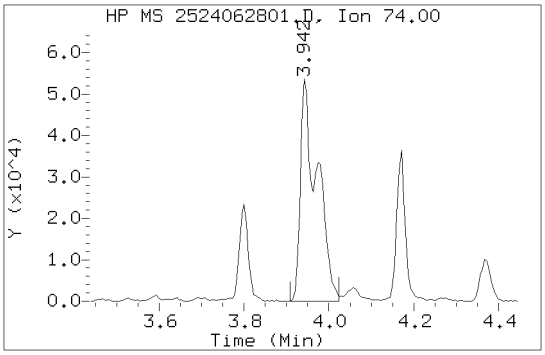
AFTER
MASS
43
AREA
453991
HEIGHT
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30-Jun-2024
14:58



BEFORE
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74
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HEIGHT
53648
28-Jun-2024
10:05



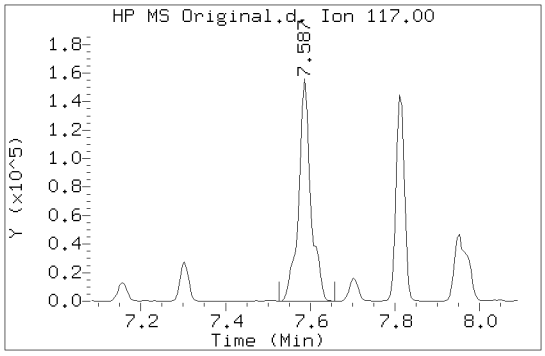
AFTER
MASS
74
AREA
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HEIGHT
53648
30-Jun-2024
14:58



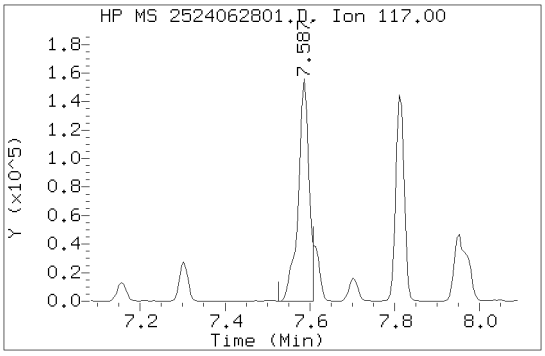
Pentachloroethane (76-01-7)

Reason Code:

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AREA
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HEIGHT
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28-Jun-2024
10:05



AFTER
MASS
117
AREA
280902
HEIGHT
155840
30-Jun-2024
14:58

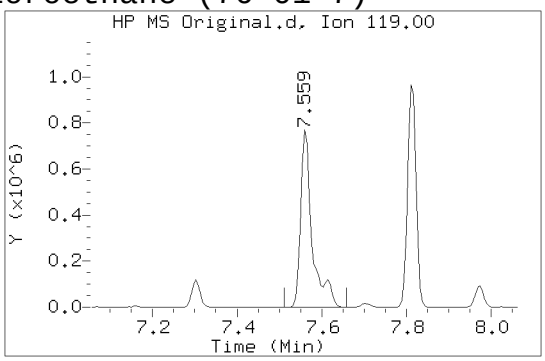


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LabSampID : 1800

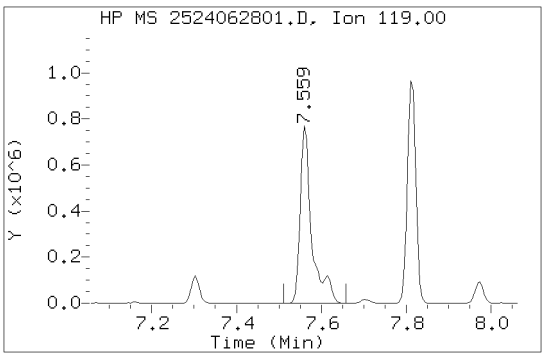
Pentachloroethane (76-01-7)

Reason Code:

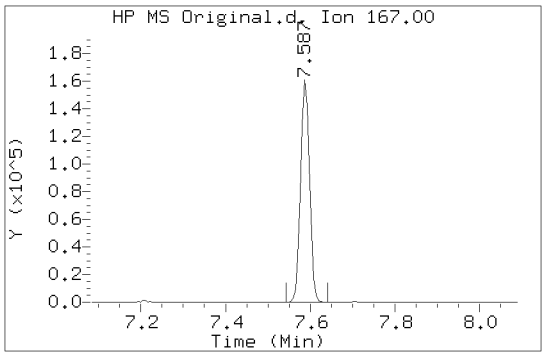
BEFORE
MASS
119
AREA
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HEIGHT
769984
28-Jun-2024
10:05



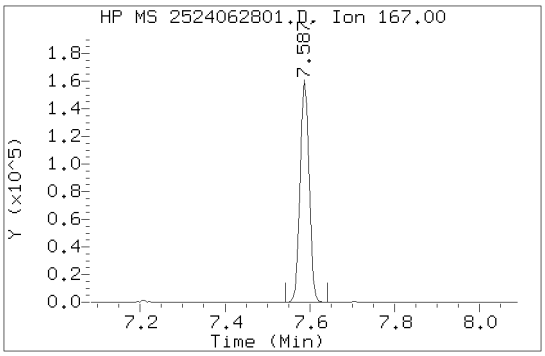
AFTER
MASS
119
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1459316
HEIGHT
769984
30-Jun-2024
14:58



BEFORE
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167
AREA
238559
HEIGHT
160896
28-Jun-2024
10:05



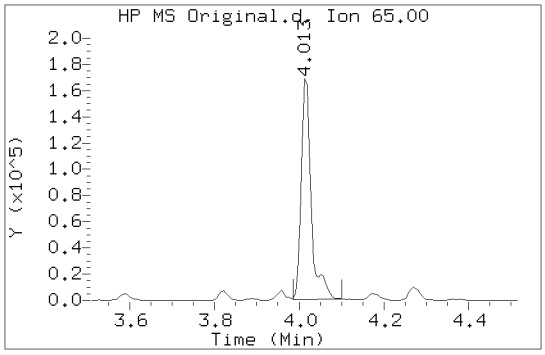
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HEIGHT
160896
30-Jun-2024
14:58



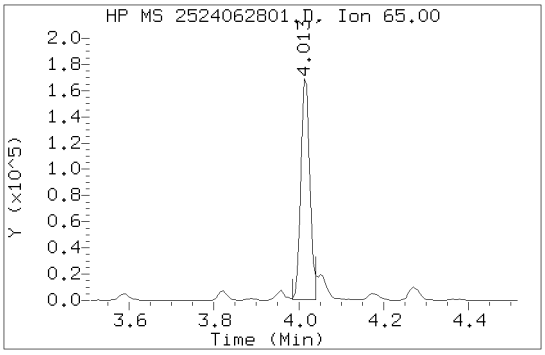
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

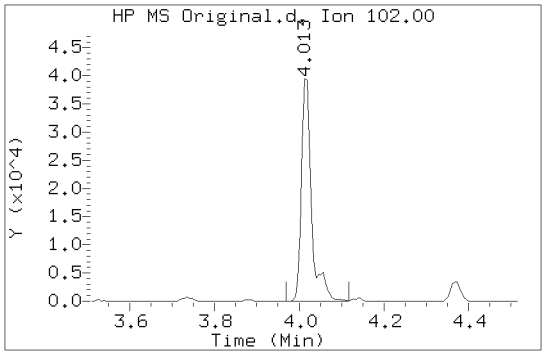
BEFORE
MASS
65
AREA
277198
HEIGHT
168554
28-Jun-2024
10:05



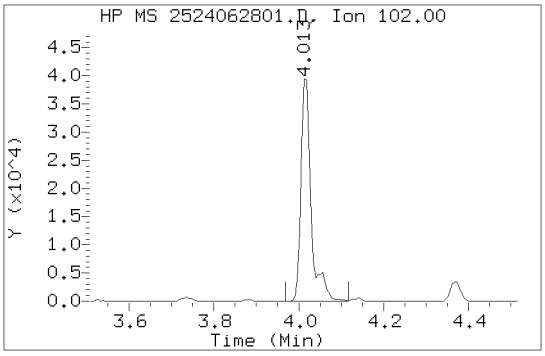
AFTER
MASS
65
AREA
250186
HEIGHT
168554
30-Jun-2024
14:58



BEFORE
MASS
102
AREA
66291
HEIGHT
39432
28-Jun-2024
10:05



AFTER
MASS
102
AREA
66291
HEIGHT
39432
30-Jun-2024
14:58



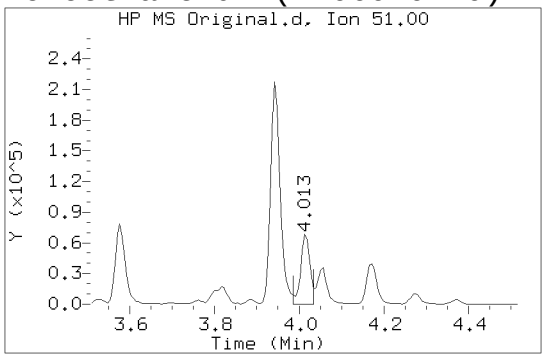
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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

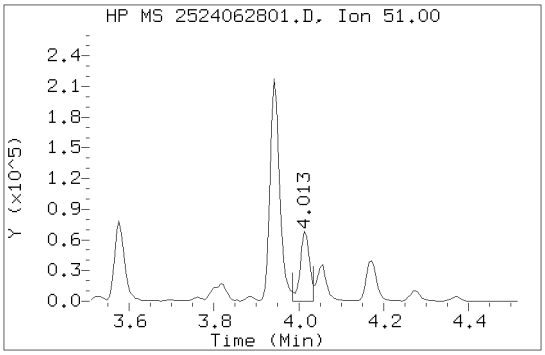
BEFORE

MASS
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AREA
106137
HEIGHT
68238
28-Jun-2024
10:05



AFTER

MASS
51
AREA
106137
HEIGHT
68238
30-Jun-2024
14:58



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 14:58
Client ID:
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Inj Date: 28-JUN-2024 09:53
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062802.D Page 1
Report Date: 30-Jun-2024 15:00

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Lab Smp Id: 3845976 Client Smp ID: LCS for HBN 1236144
Inj Date : 28-JUN-2024 10:23
Operator : TMP Inst ID: ms25.i
Smp Info : 3845976;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
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Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	231494	20.1179	20.1179	
2 Chloromethane	50	1.644	1.644	(0.394)	202494	20.0810	20.0810	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	256702	19.7339	19.7339	
4 Bromomethane	94	1.922	1.922	(0.461)	126243	20.0141	20.0141	
5 Chloroethane	64	1.999	2.004	(0.479)	180018	20.3059	20.3059	
6 Pentane	41	2.086	2.092	(0.500)	172226	20.6347	20.6347	
7 Trichlorofluoromethane	101	2.092	2.097	(0.502)	343768	19.2935	19.2935	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	355400	21.5567	21.5567	
9 Ethyl Ether	74	2.277	2.277	(0.546)	106843	21.3110	21.3110	
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	215374	21.5281	21.5281	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	455997	21.1293	21.1293	
11 Freon 113	101	2.424	2.424	(0.581)	149869	21.2984	21.2984	
13 Iodomethane	127	2.506	2.506	(0.601)	73359	19.2324	19.2324	
14 Acrolein	56	2.599	2.599	(0.623)	250559	155.270	155.270	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	184153	21.2251	21.2251	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	49756	92.3501	92.3501	
17 Methylene Chloride	84	2.735	2.741	(0.656)	175173	21.4358	21.4358	
18 Acetone	58	2.752	2.752	(0.660)	97878	108.106	108.106	
19 Methyl acetate	74	2.817	2.817	(0.676)	35247	18.6897	18.6897	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	211089	21.5428	21.5428	
21 Hexane	57	2.861	2.866	(0.686)	339205	20.6399	20.6399	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	487666	19.5409	19.5409	

Data File: 2524062802.D
Report Date: 30-Jun-2024 15:00

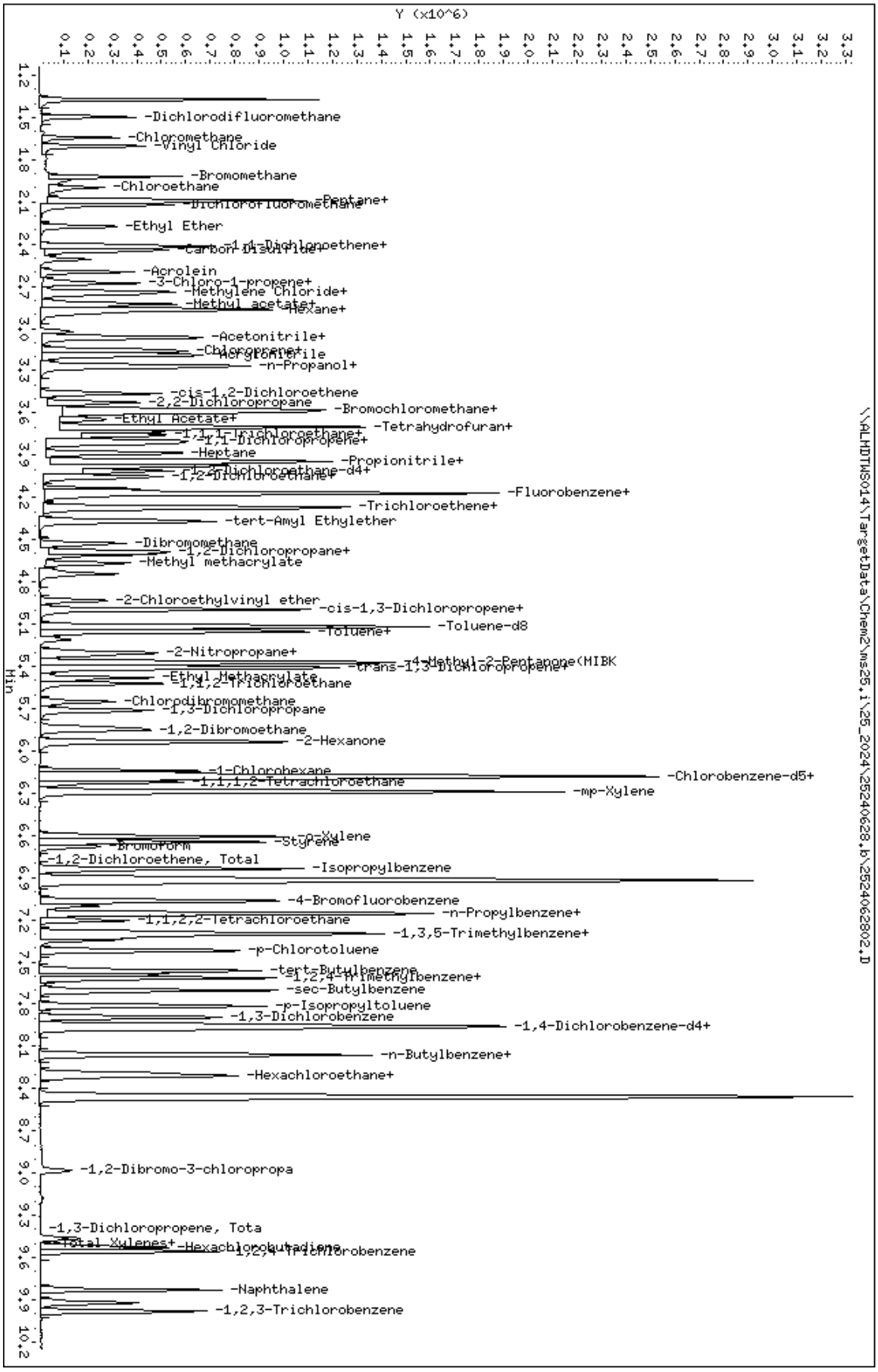
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	91568	101.310	101.310	
	24 Acetonitrile	41	3.019	3.019	(0.724)	107091	105.776	105.776	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	467800	21.5114	21.5114	
	26 Chloroprene	53	3.150	3.156	(0.755)	174316	15.8106	15.8106(Q)	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	278259	20.8442	20.8442	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	425900	122.502	122.502(Q)	
	30 n-Propanol	41	3.265	3.265	(0.783)	87932	205.244	205.244	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	500124	21.6534	21.6534	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	38750	17.2582	17.2582(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	209928	21.1296	21.1296	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	226731	21.3100	21.3100	
M	100 1,2-Dichloroethene, Total	61				421017	42.6723	42.6723	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	90818	21.1969	21.1969	
	35 Cyclohexane	84	3.587	3.592	(0.860)	249682	20.9444	20.9444	
	36 Chloroform	83	3.598	3.598	(0.863)	300003	20.8174	20.8174	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	162550	18.7580	18.7580	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	166492	20.8105	20.8105	
	39 Carbon Tetrachloride	117	3.696	3.701	(0.886)	181999	17.4434	17.4434(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	243277	99.4669	99.4669	
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	243373	29.6597	29.6597	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	241257	21.5082	21.5082	
	43 2-Butanone	72	3.761	3.761	(0.902)	122737	103.807	103.807(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	218128	20.5582	20.5582	
	45 1-Chlorobutane	41	3.816	3.821	(0.915)	145599	21.3387	21.3387	
	46 Heptane	71	3.887	3.887	(0.932)	135221	21.9359	21.9359	
	48 Propionitrile	54	3.941	3.941	(0.945)	138285	105.037	105.037	
	47 Benzene	78	3.941	3.941	(0.945)	647800	19.8637	19.8637	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	82372	20.8717	20.8717	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	481050	21.5763	21.5763	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	263383	30.4494	30.4494(M)	MP
	54 Isobutyl alcohol	42	3.990	3.985	(0.957)	34767	175.782	175.782(QM)	MP
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	201940	19.6977	19.6977	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	71704	103.400	103.400	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1039946	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	412226	19.5821	19.5821	
	57 Trichloroethene	95	4.269	4.269	(1.024)	166800	20.2090	20.2090	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	268267	20.9059	20.9059	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	356901	18.5302	18.5302	
	60 Dibromomethane	93	4.525	4.525	(1.085)	105436	20.2070	20.2070	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	163300	20.8051	20.8051	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	203412	18.8398	18.8398	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	128785	20.7318	20.7318	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	109540	19.2984	19.2984	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	249923	18.8502	18.8502	
	67 Octane	85	5.000	5.000	(0.810)	127294	26.1627	26.1627(R)	
$	68 Toluene-d8	98	5.114	5.120	(0.829)	950149	30.3358	30.3358	
	69 Toluene	92	5.153	5.153	(0.835)	389709	19.6308	19.6308	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	51068	103.192	103.192	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	187593	87.3976	87.3976	
	72 1,1-Dichloro-2-propanone	63	5.311	5.316	(0.860)	17821	85.9578	85.9578(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	808385	103.708	103.708	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	240414	19.5802	19.5802	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	145946	20.1896	20.1896	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	225465	19.0396	19.0396	

Data File: 2524062802.D
Report Date: 30-Jun-2024 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	126511	20.7415	20.7415	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	154283	18.0809	18.0809	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	260665	21.6300	21.6300	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	152760	18.9619	18.9619	
	81 2-Hexanone	43	5.933	5.933	(0.961)	551268	103.152	103.152	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	221200	21.1803	21.1803	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395604	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	227417	19.1436	19.1436	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	415957	20.5609	20.5609	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	144525	19.1183	19.1183	
	87 mp-Xylene	106	6.288	6.288	(1.019)	552630	38.8678	38.8678	
M	120 1,3-Dichloropropene, Total	75				490337	38.4304	38.4304	
	88 o-Xylene	106	6.610	6.610	(1.071)	259660	19.2872	19.2872	
	89 Styrene	104	6.648	6.648	(0.836)	405336	21.2208	21.2208	
	90 Bromoform	173	6.680	6.680	(0.840)	97012	18.0686	18.0686	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	646497	24.1574	24.1574	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262843	29.1841	29.1841	
M	121 TOTAL XYLENES	106				812290	58.1550	58.1550	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	166113	21.1049	21.1049	
	93 Bromobenzene	156	7.155	7.155	(0.900)	154585	20.0835	20.0835	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	165022	21.5705	21.5705	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	463354	21.1526	21.1526	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	443949	21.4384	21.4384	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	52367	21.2231	21.2231	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	45078	19.3804	19.3804	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	420066	22.3950	22.3950	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	118054	22.5335	22.5335	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	96827	18.5894	18.5894(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	469155	20.1355	20.1355	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	620753	22.9286	22.9286	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	134907	21.7599	21.7599	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	286011	22.0560	22.0560	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	325554	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	294406	21.7810	21.7810	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	123630	21.3384	21.3384	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	57697	18.1113	18.1113(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	84110	18.3529	18.3529	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	270878	21.9293	21.9293	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	27345	18.9493	18.9493	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	72687	164.996	164.996	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	91996	22.6501	22.6501	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	197198	24.1070	24.1070	
	118 Naphthalene	128	9.829	9.829	(1.236)	474430	19.9252	19.9252	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	177185	19.4574	19.4574	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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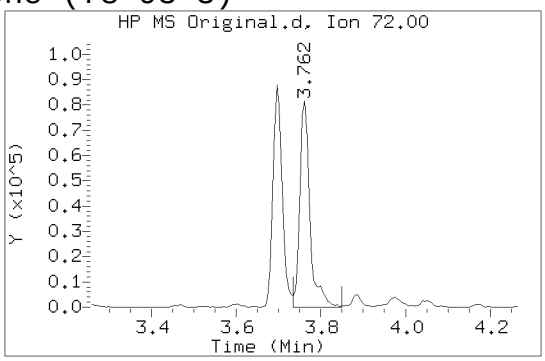
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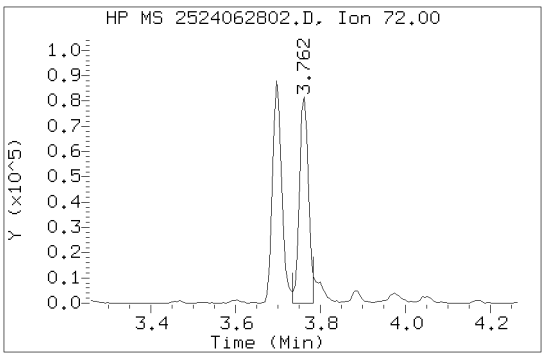
2-Butanone (78-93-3)

Reason Code: MP

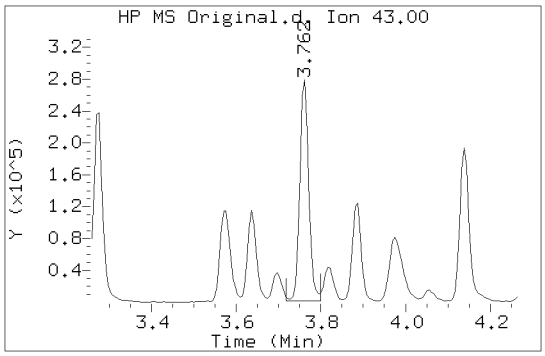
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28-Jun-2024
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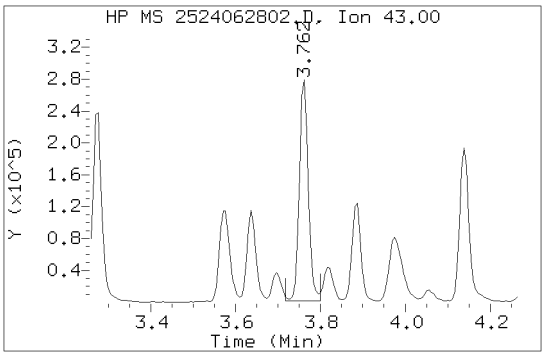
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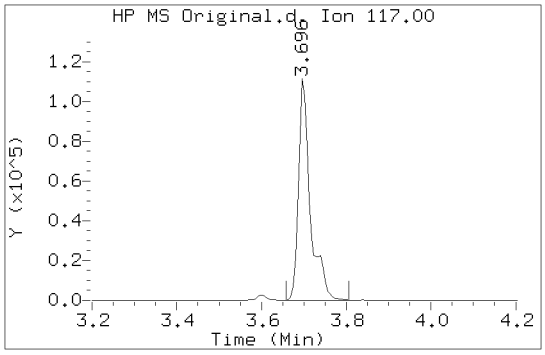
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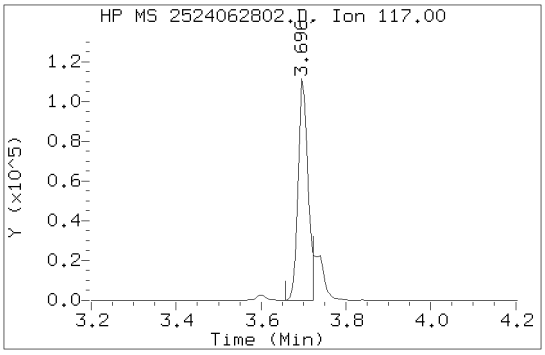
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Reason Code: MP

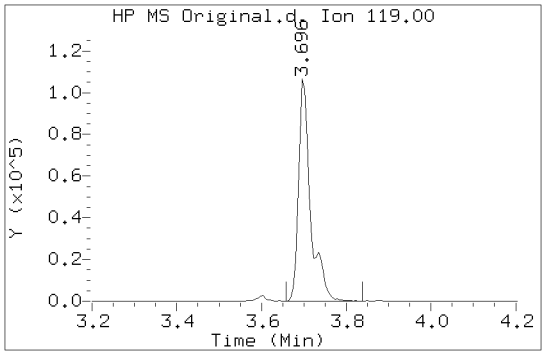
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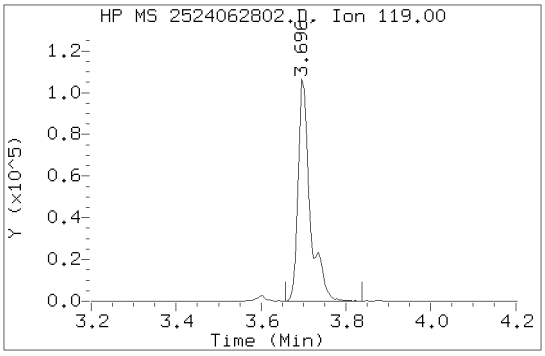
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BEFORE
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10:37



AFTER
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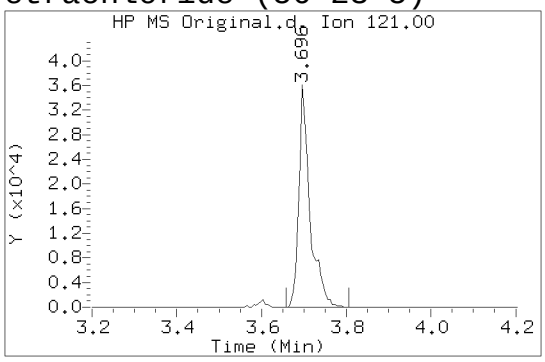


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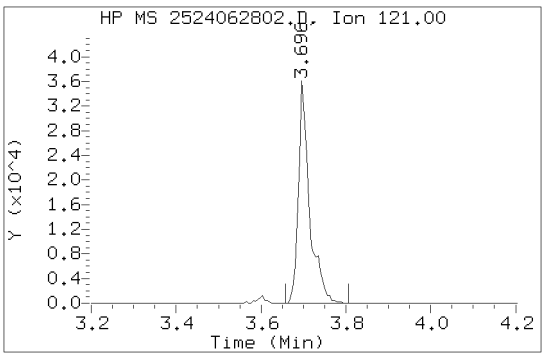
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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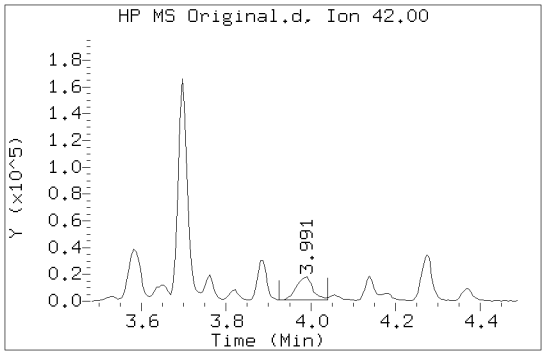
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30-Jun-2024
15:00



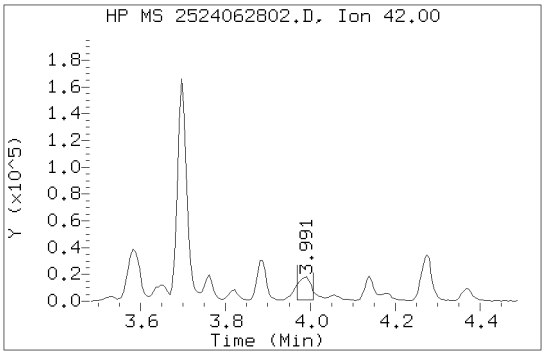
Isobutyl alcohol (78-83-1)

Reason Code: MP

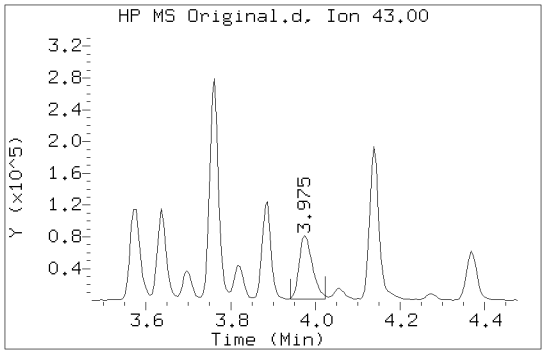
BEFORE
MASS
42
AREA
47003
HEIGHT
17225
28-Jun-2024
10:37



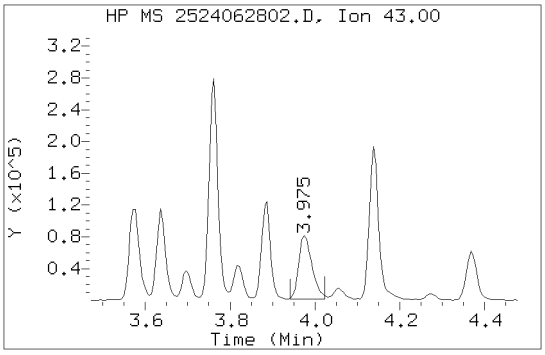
AFTER
MASS
42
AREA
34767
HEIGHT
17064
30-Jun-2024
15:00



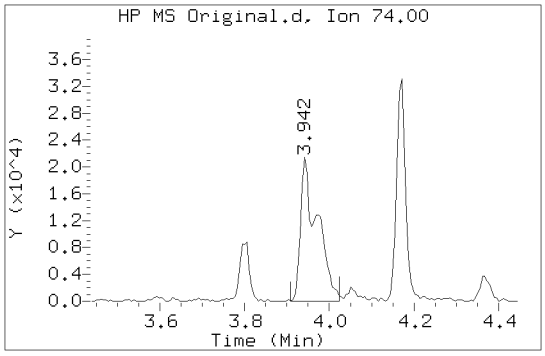
BEFORE
MASS
43
AREA
175860
HEIGHT
80369
28-Jun-2024
10:37



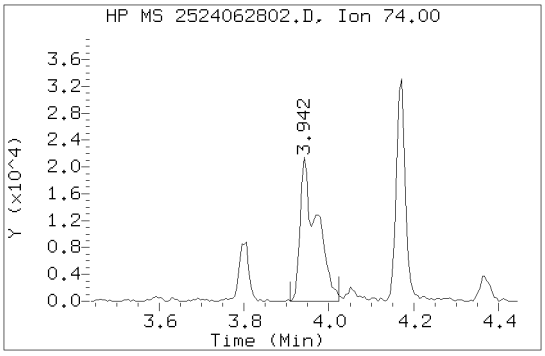
AFTER
MASS
43
AREA
175860
HEIGHT
80369
30-Jun-2024
15:00



BEFORE
MASS
74
AREA
58740
HEIGHT
21480
28-Jun-2024
10:37



AFTER
MASS
74
AREA
58740
HEIGHT
21480
30-Jun-2024
15:00

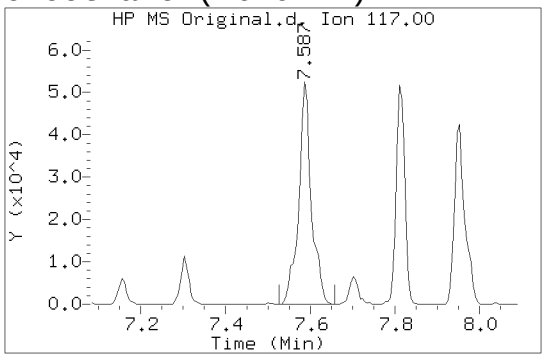


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Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

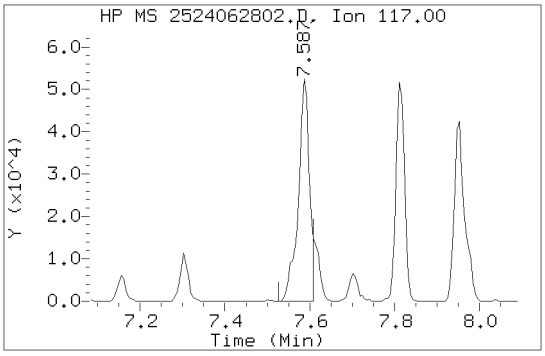
Pentachloroethane (76-01-7)

Reason Code: MP

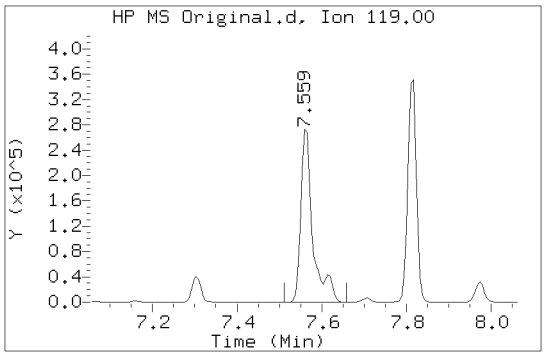
BEFORE
MASS
117
AREA
108579
HEIGHT
52472
28-Jun-2024
10:37



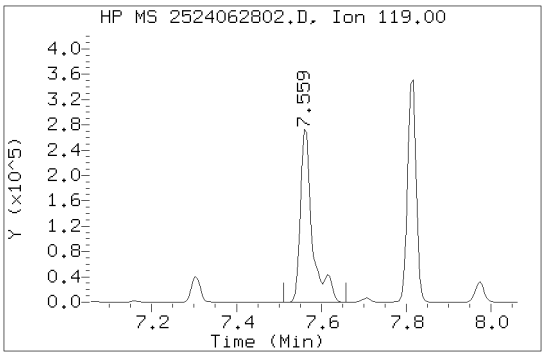
AFTER
MASS
117
AREA
96827
HEIGHT
52472
30-Jun-2024
15:00



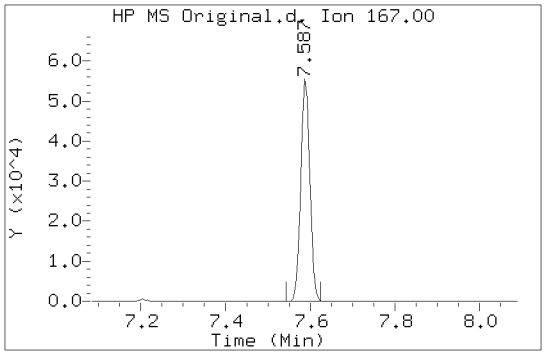
BEFORE
MASS
119
AREA
538948
HEIGHT
273088
28-Jun-2024
10:37



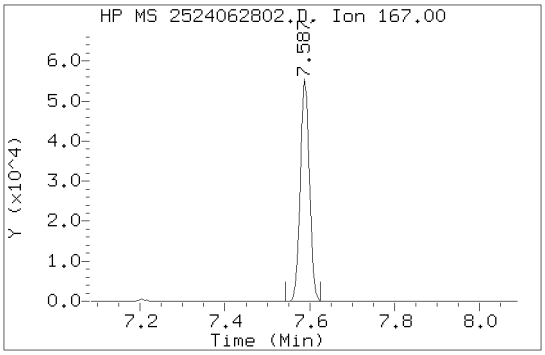
AFTER
MASS
119
AREA
538948
HEIGHT
273088
30-Jun-2024
15:00



BEFORE
MASS
167
AREA
82812
HEIGHT
55536
28-Jun-2024
10:37



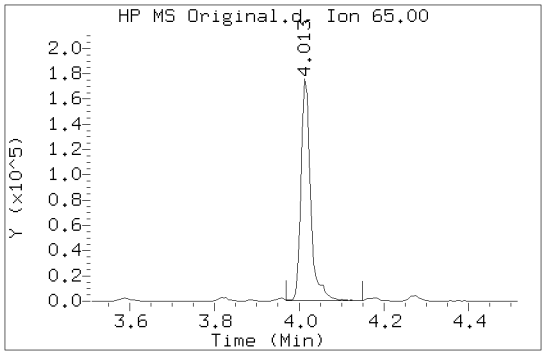
AFTER
MASS
167
AREA
82812
HEIGHT
55536
30-Jun-2024
15:00



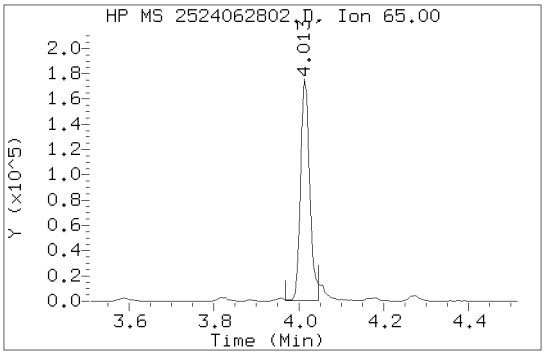
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
279018
HEIGHT
175513
28-Jun-2024
10:37



AFTER
MASS
65
AREA
263383
HEIGHT
175513
30-Jun-2024
15:00

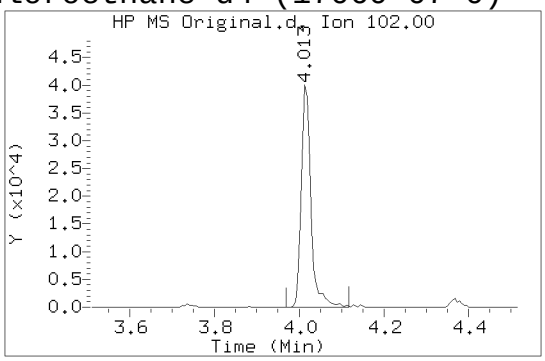


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

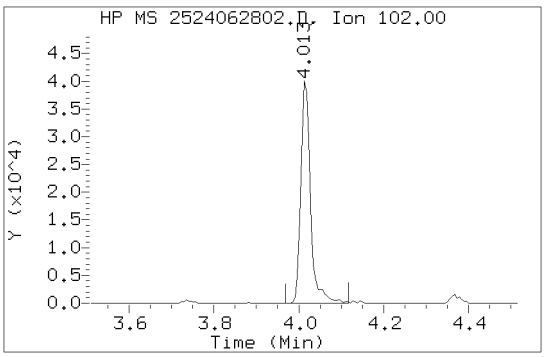
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

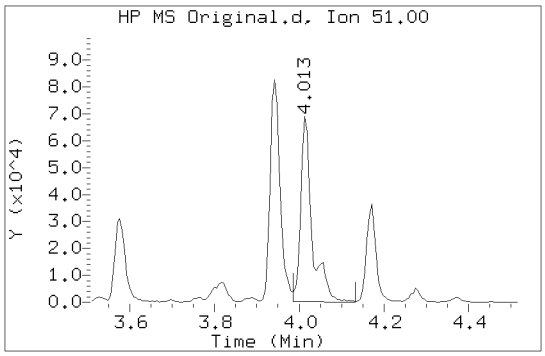
BEFORE
MASS
102
AREA
63884
HEIGHT
40056
28-Jun-2024
10:37



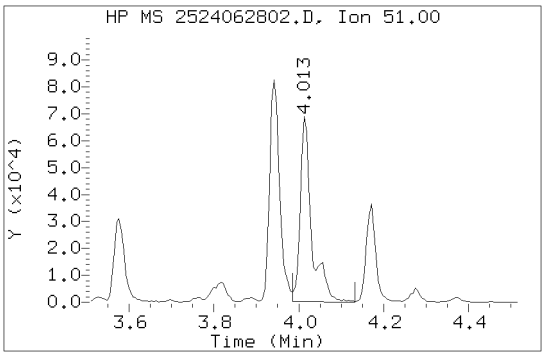
AFTER
MASS
102
AREA
63884
HEIGHT
40056
30-Jun-2024
15:00



BEFORE
MASS
51
AREA
129385
HEIGHT
68722
28-Jun-2024
10:37



AFTER
MASS
51
AREA
129385
HEIGHT
68722
30-Jun-2024
15:00



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:00
Client ID: LCS for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 10:23
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062804.D Page 1
Report Date: 29-Jun-2024 09:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Lab Smp Id: 3845975 Client Smp ID: MB for HBN 1236144
Inj Date : 28-JUN-2024 11:24
Operator : TMP Inst ID: ms25.i
Smp Info : 3845975;;1;3;;MB;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524062804.D Page 2
Report Date: 29-Jun-2024 09:39

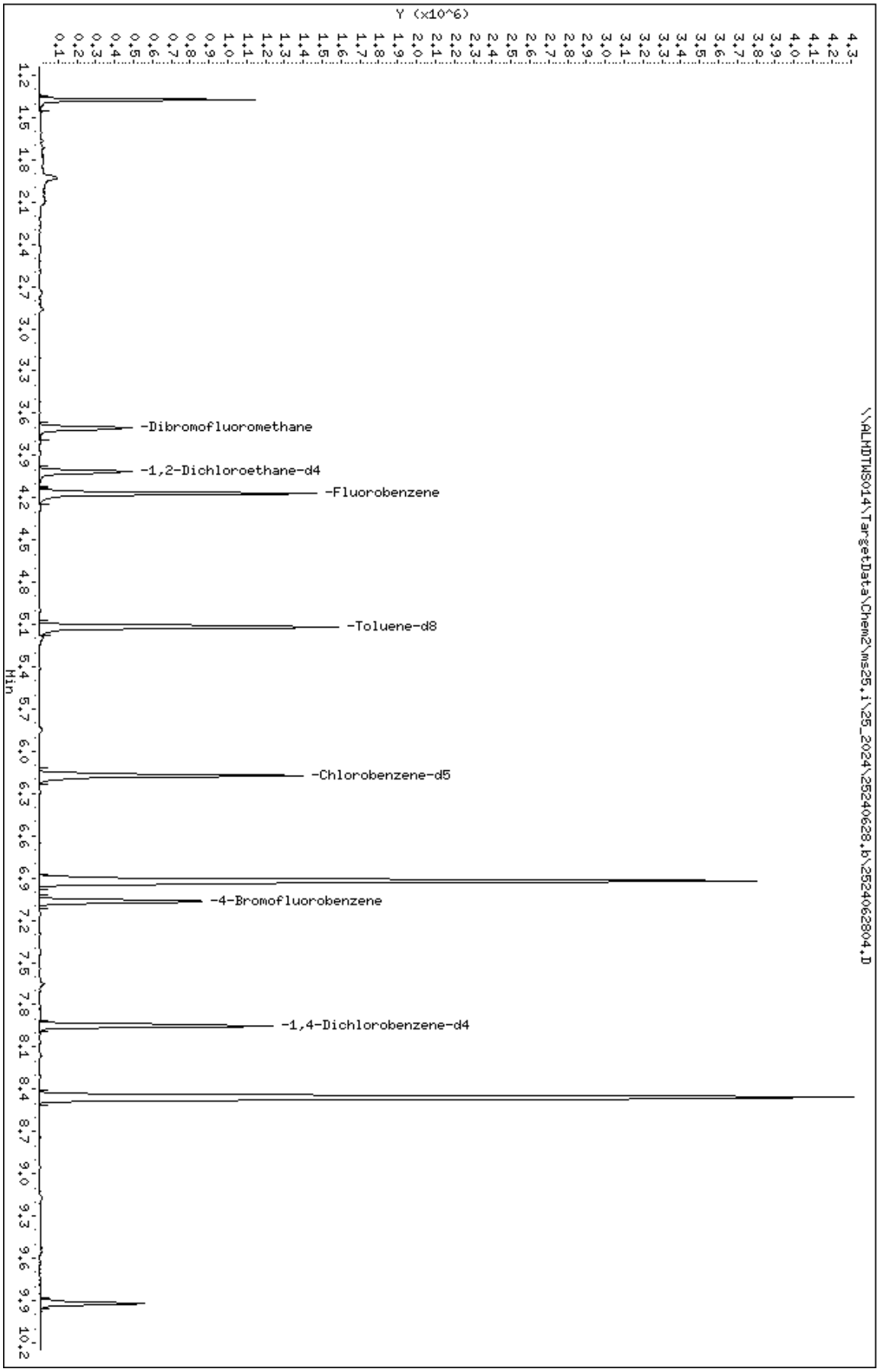
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	234435	27.6114	27.6114	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	274259	30.6424	30.6424	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1076068	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	926112	30.3157	30.3157	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062804.D Page 3
Report Date: 29-Jun-2024 09:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	385851	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	228407	26.8243	26.8243	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	307789	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Date : 28-JUN-2024 11:24
Client ID: MB for HBN 1236144
Sample Info: 3845975;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: TMP
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Inj Date : 28-JUN-2024 11:24
InstruID : ms25.i
LabSampID : 3845975

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/29/2024 09:39
Client ID: MB for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 11:24
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Acrolein
Benzyl Chloride
Bromoform
tert.- Butyl Alcohol
n-Butylbenzene
1-Chlorohexane
3-Chloro-1-propene
1,3-Dichlorobenzene
1,2-Dichloroethane
Ethyl methacrylate
Heptane
Hexachloroethane
Isopropylbenzene
Methacrylonitrile
2-Nitropropane
1,1,1,2-Tetrachloroethane
1,2,3-Trichloropropane
1,3,5-Trimethylbenzene

Data File: 2524062807.D Page 1
Report Date: 30-Jun-2024 15:04

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062807.D
Lab Smp Id: 3366028005 Client Smp ID: HS24060985-05
Inj Date : 28-JUN-2024 12:26
Operator : TMP Inst ID: ms25.i
Smp Info : 3366028005;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062807.D Page 2
Report Date: 30-Jun-2024 15:04

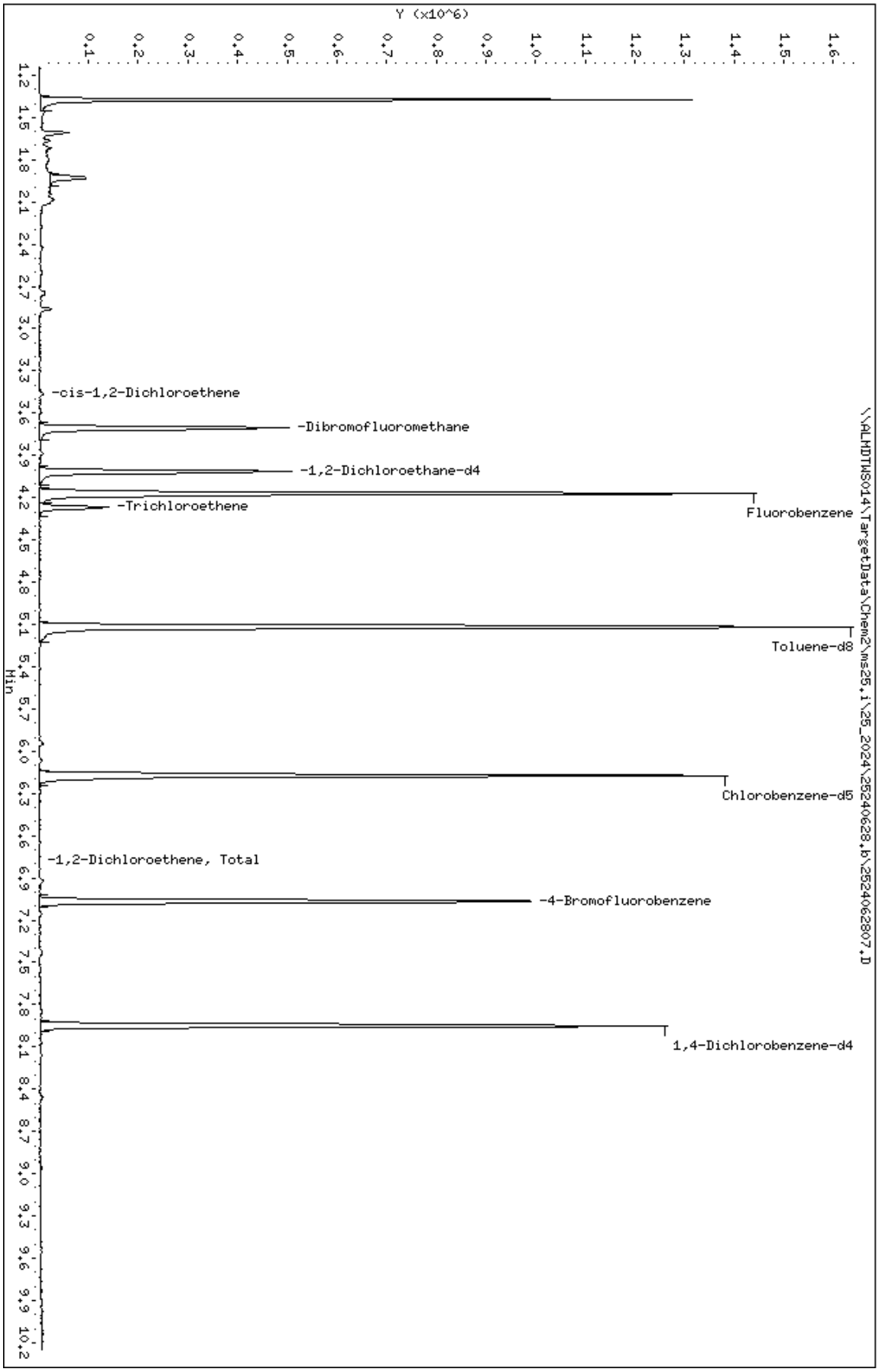
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.456	3.461	(0.829)	3343	0.34220	0.342202(a)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	236090	29.2616	29.2616	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	280084	32.9311	32.9311	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1022550	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	36123	4.45101	4.45101	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	948183	31.5372	31.5372	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062807.D
Report Date: 30-Jun-2024 15:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
76 Ethyl methacrylate	69	Compound Not Detected.						
77 1,1,2-Trichloroethane	83	Compound Not Detected.						
78 Chlorodibromomethane	129	Compound Not Detected.						
79 1,3-Dichloropropane	76	Compound Not Detected.						
80 1,2-Dibromoethane	107	Compound Not Detected.						
81 2-Hexanone	43	Compound Not Detected.						
82 1-Chlorohexane	91	Compound Not Detected.						
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	379746	30.0000		
85 Ethylbenzene	106	Compound Not Detected.						
84 Chlorobenzene	112	Compound Not Detected.						
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87 mp-Xylene	106	Compound Not Detected.						
M 120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
88 o-Xylene	106	Compound Not Detected.						
89 Styrene	104	Compound Not Detected.						
90 Bromoform	173	Compound Not Detected.						
91 Isopropylbenzene	105	Compound Not Detected.						
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	261675	30.7551	30.7551	
M 121 TOTAL XYLENES	106	Compound Not Detected.						
94 n-Propylbenzene	120	Compound Not Detected.						
93 Bromobenzene	156	Compound Not Detected.						
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
96 o-Chlorotoluene	91	Compound Not Detected.						
98 1,2,3-Trichloropropane	110	Compound Not Detected.						
99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101 p-Chlorotoluene	91	Compound Not Detected.						
102 tert-Butylbenzene	134	Compound Not Detected.						
103 Pentachloroethane	117	Compound Not Detected.						
104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
105 sec-Butylbenzene	105	Compound Not Detected.						
106 p-Isopropyltoluene	134	Compound Not Detected.						
107 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	307552	30.0000		(Q)
109 1,4-Dichlorobenzene	146	Compound Not Detected.						
111 n-Butylbenzene	134	Compound Not Detected.						
110 Benzyl Chloride	126	Compound Not Detected.						
112 Hexachloroethane	117	Compound Not Detected.						
113 1,2-Dichlorobenzene	146	Compound Not Detected.						
114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115 Nitrobenzene	77	Compound Not Detected.						
116 Hexachlorobutadiene	225	Compound Not Detected.						
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118 Naphthalene	128	Compound Not Detected.						
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062807.D
Date : 28-JUN-2024 12:26
Client ID: HS24060985-05
Sample Info: 336602800S;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062807.D Page 2

Date : 28-JUN-2024 12:26

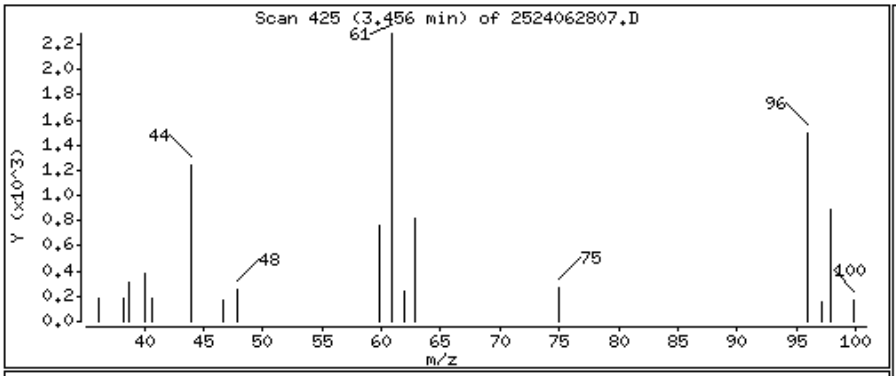
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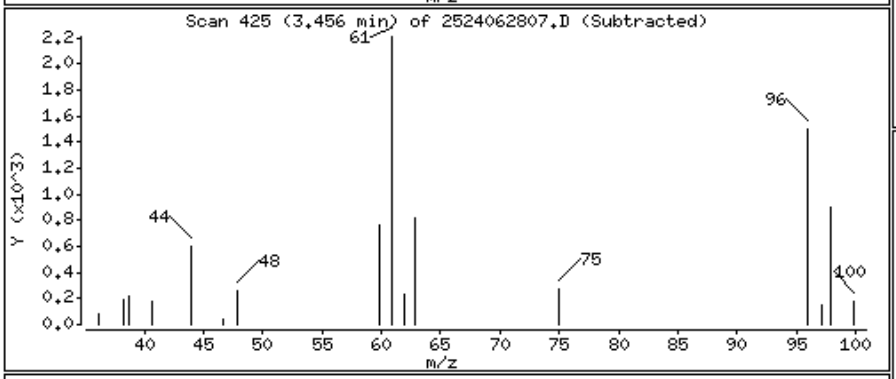
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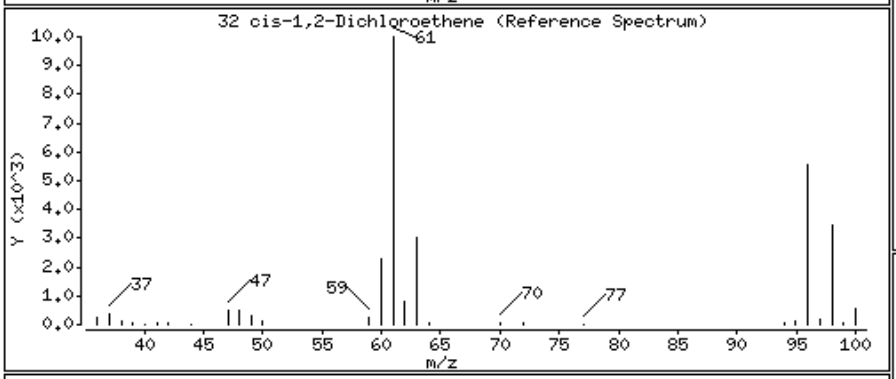
Purge Volume: 5.0 Operator: TMP

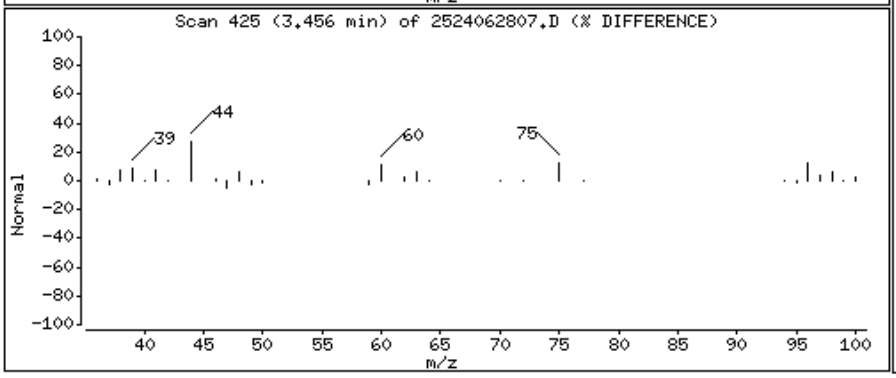
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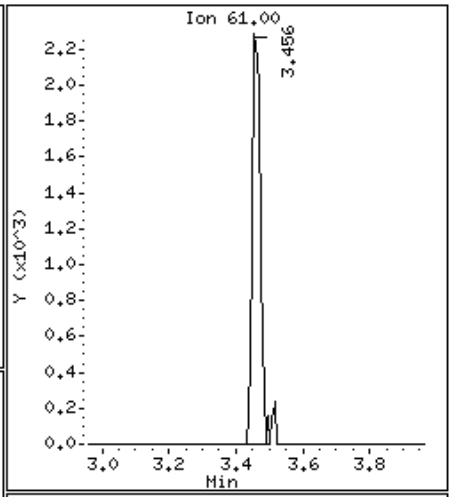
32 cis-1,2-Dichloroethene Concentration: 0.342202 ug/L

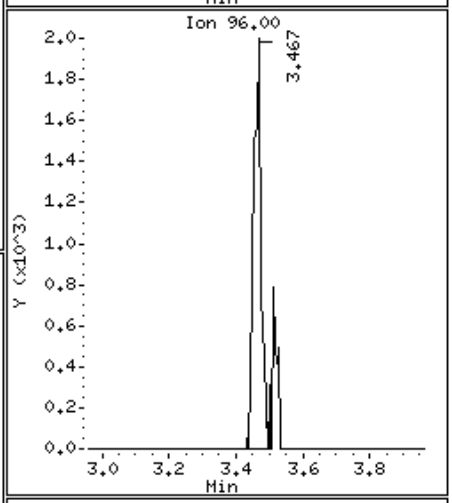


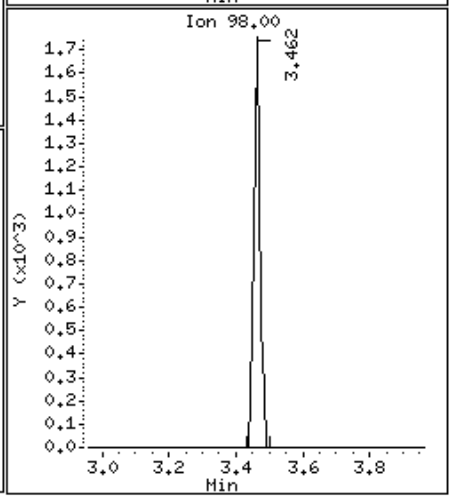












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062807.D Page 3

Date : 28-JUN-2024 12:26

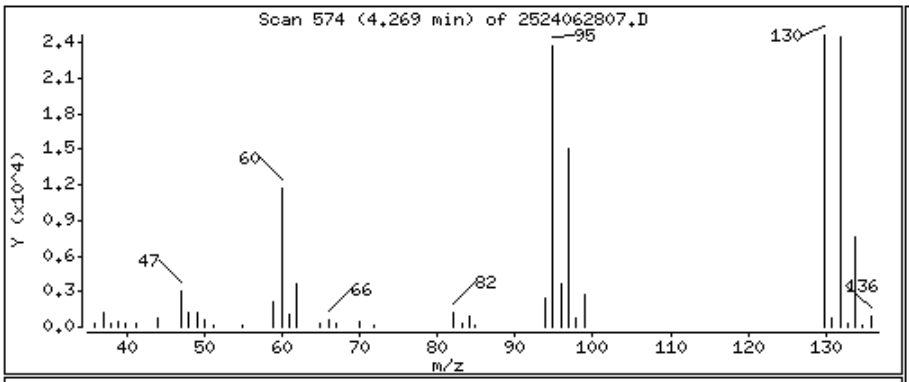
Client ID: HS24060985-05 Instrument: ms25.i

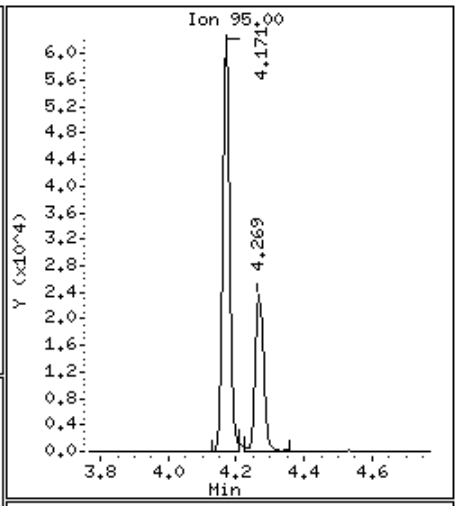
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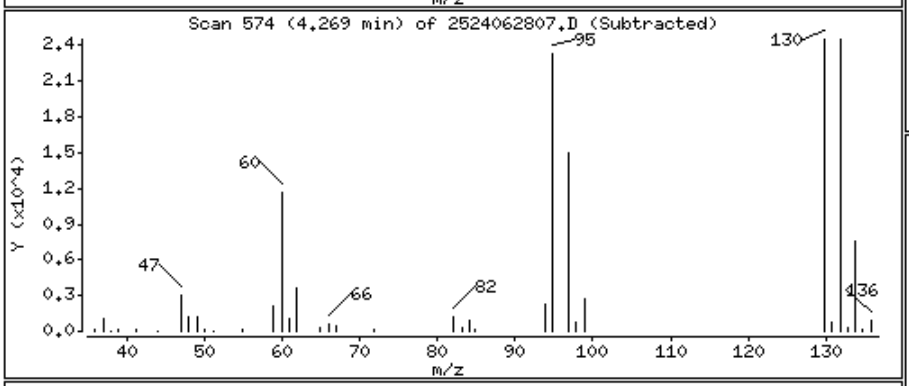
Purge Volume: 5.0 Operator: TMP

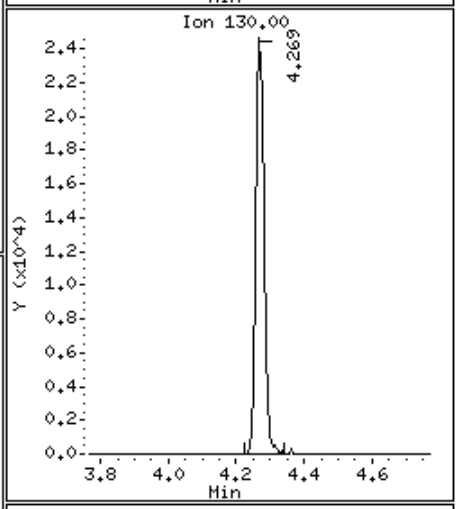
Column phase: DB-VRX Column diameter: 0.25

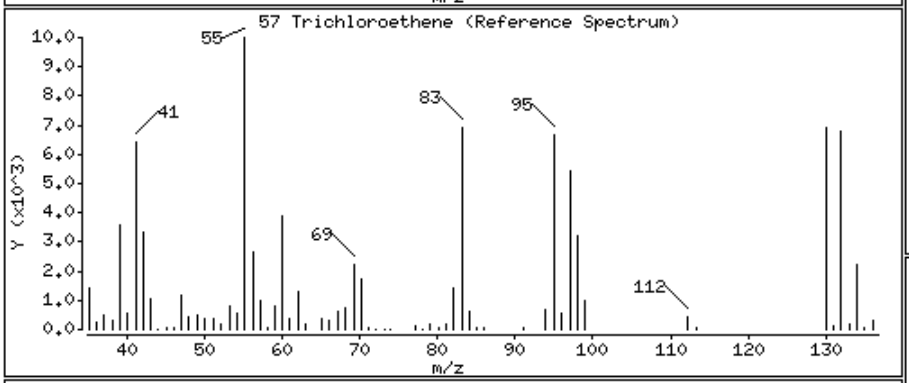
57 Trichloroethene Concentration: 4.45101 ug/L

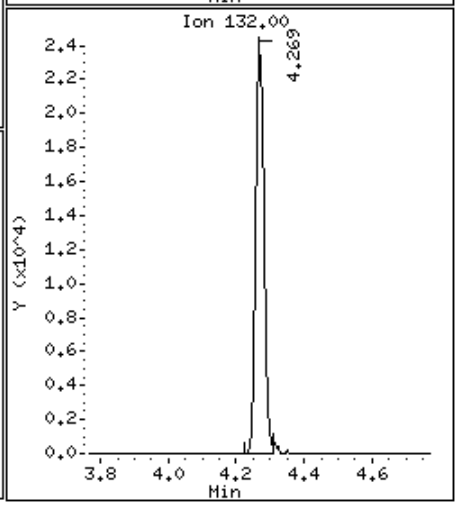


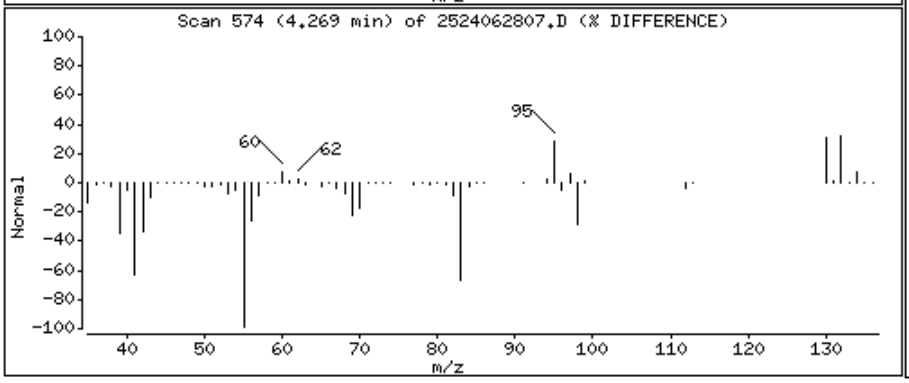












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062807.D
Inj Date : 28-JUN-2024 12:26
InstruID : ms25.i
LabSampID : 3366028005

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:04
Client ID: HS24060985-05
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 12:26
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorohexane
Ethyl methacrylate
2-Nitropropane
Chloroethane
1,2-Dichloroethane
Heptane

Data File: 2524062808.D Page 1
Report Date: 30-Jun-2024 15:04

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062808.D
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Inj Date : 28-JUN-2024 12:46
Operator : TMP Inst ID: ms25.i
Smp Info : 3366028008;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

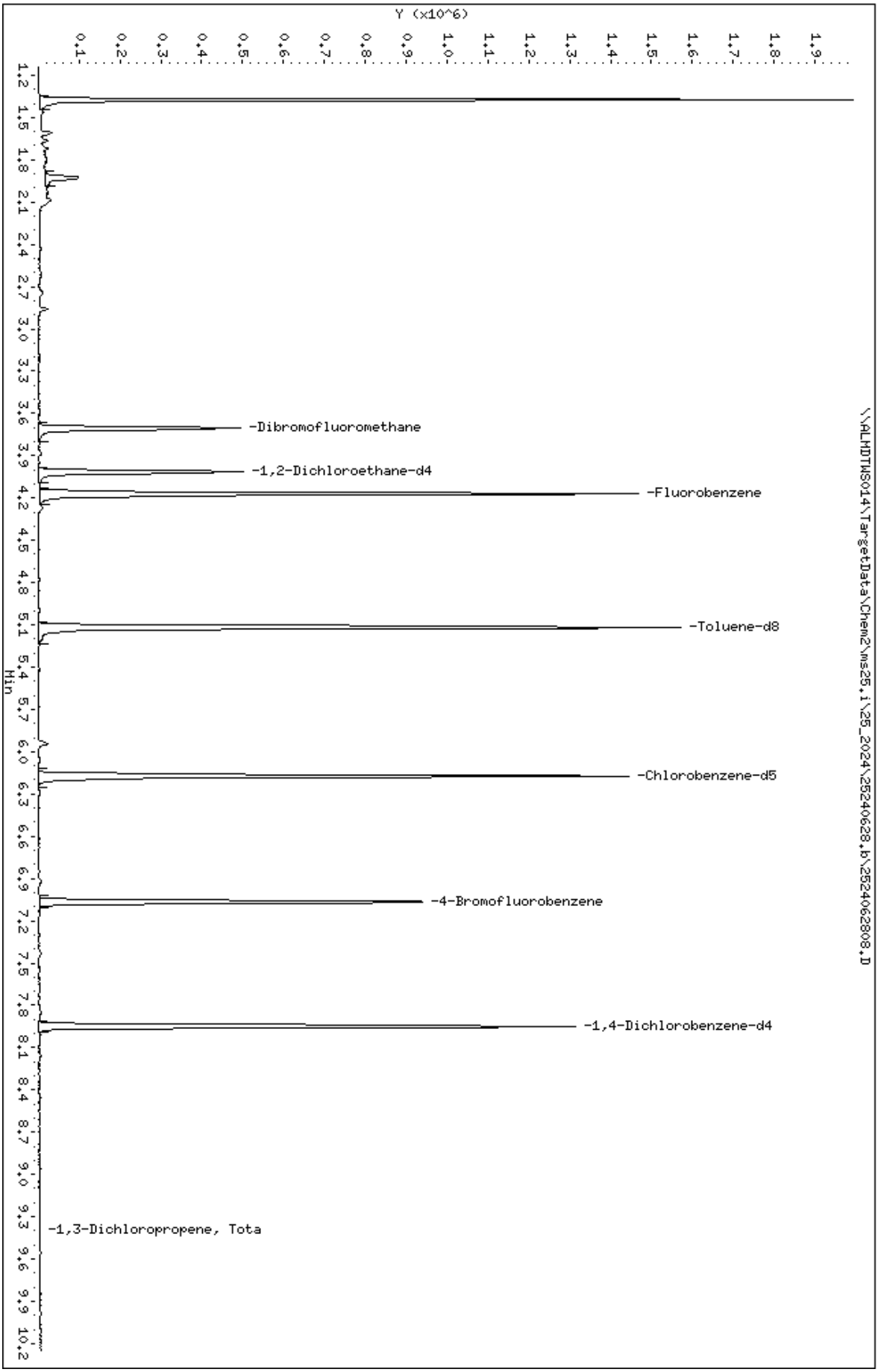
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062808.D Page 2
Report Date: 30-Jun-2024 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	231395	27.9090	27.9090	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	271117	31.0202	31.0202	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1050787	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	899365	29.4769	29.4769	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062808.D Page 3
Report Date: 30-Jun-2024 15:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	385370	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	248367	27.8396	27.8396	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	322481	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062808.D
Date : 28-JUN-2024 12:46
Client ID: HS2406O985-09
Sample Info: 336602800B;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062808.D
Inj Date : 28-JUN-2024 12:46
InstruID : ms25.i
LabSampID : 3366028008

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:04
Client ID: HS24060985-09
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 12:46
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Ethyl methacrylate
Methacrylonitrile
Trichloroethene
Chloroethane
trans-1,3-Dichloropropene
Heptane
2-Nitropropane

Data File: 2524062823.D Page 1
Report Date: 30-Jun-2024 15:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D
Lab Smp Id: 3366028004 Client Smp ID: HS24060985-04
Inj Date : 28-JUN-2024 17:32
Operator : TMP Inst ID: ms25.i
Smp Info : 3366028004;;1;;;;;10
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 23
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	4176	0.46503	4.65030(a)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	60023	9.50302	95.0302	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062823.D Page 2
Report Date: 30-Jun-2024 15:15

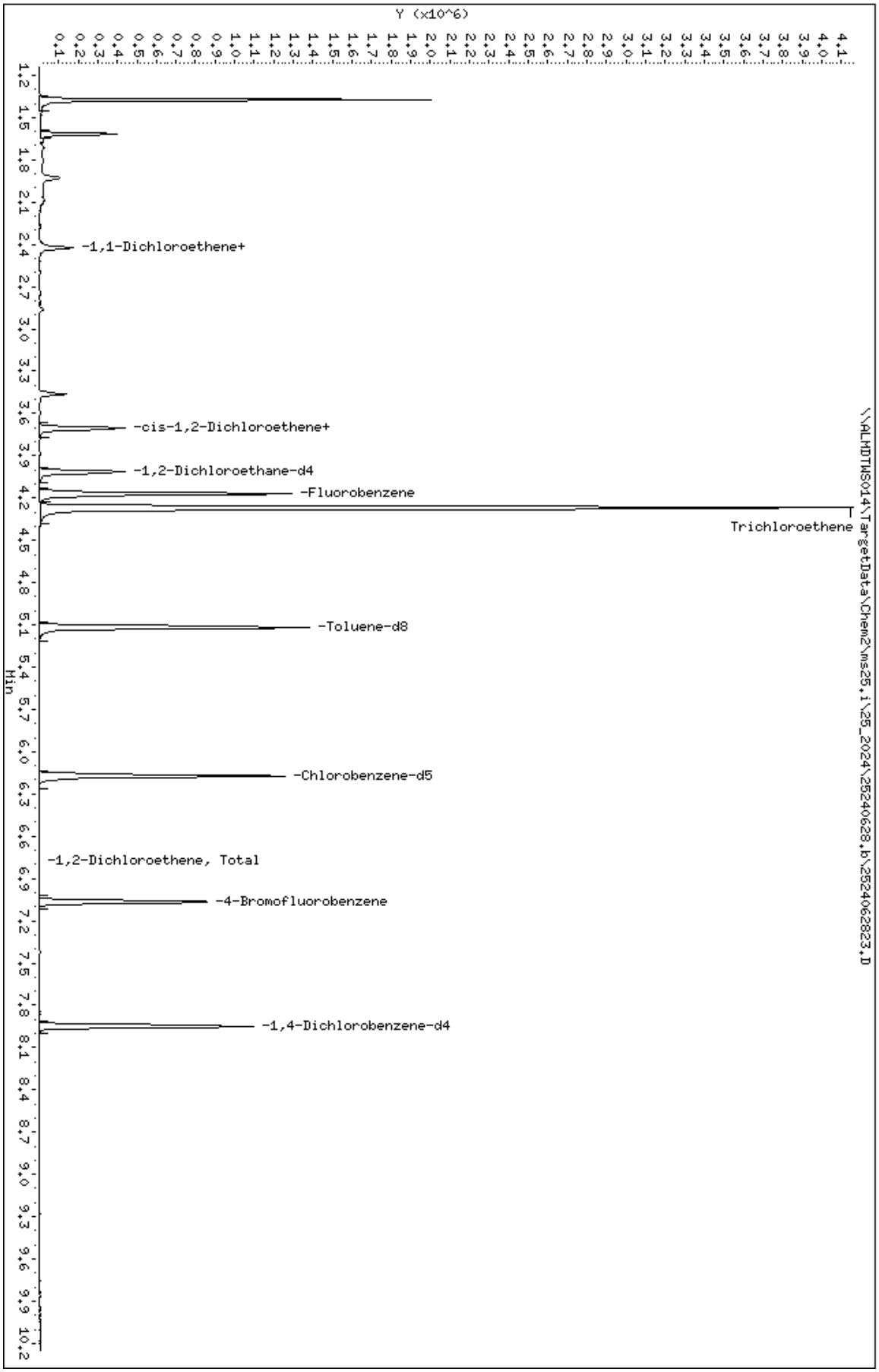
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	55654	6.24057	62.4057	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				55654	6.24057	62.4057	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	200507	27.2227	272.227	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	240024	30.9139	309.139	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	933475	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	1089963	147.119	1471.19	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	794476	29.6069	296.069	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062823.D Page 3
Report Date: 30-Jun-2024 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	338932	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	220525	29.9017	299.017	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	266584	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

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



Data File: \\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062823,D
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Sample Info: 33660280041;1;;;;;10
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D Page 2

Date : 28-JUN-2024 17:32

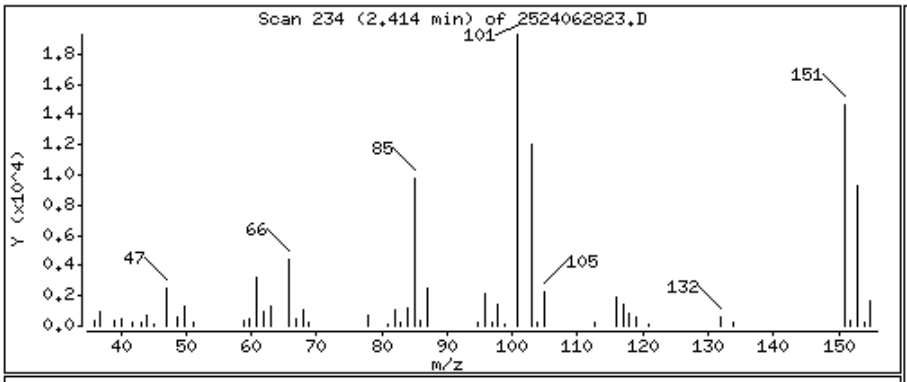
Client ID: HS24060985-04 Instrument: ms25.i

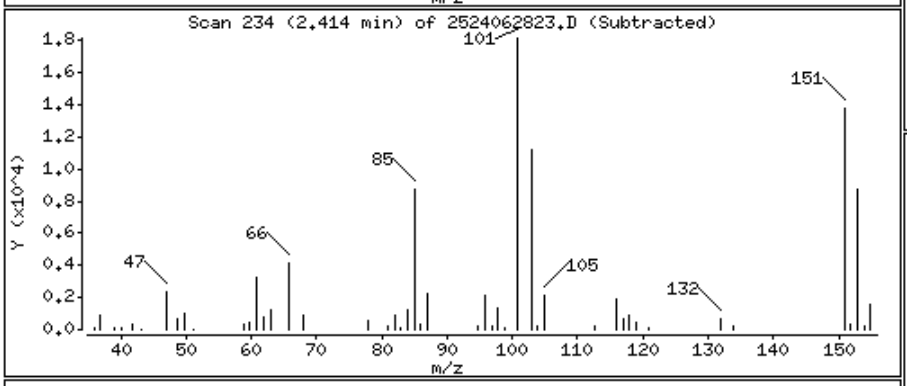
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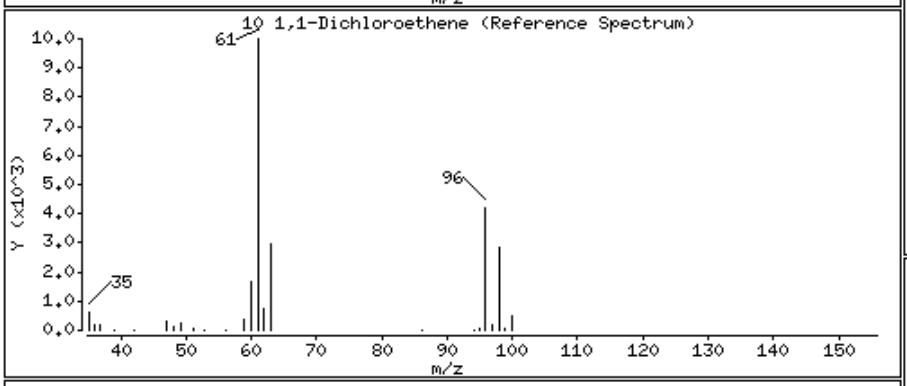
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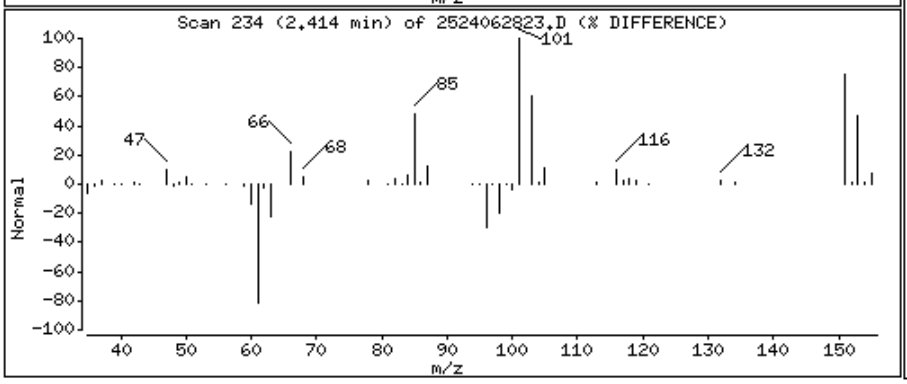
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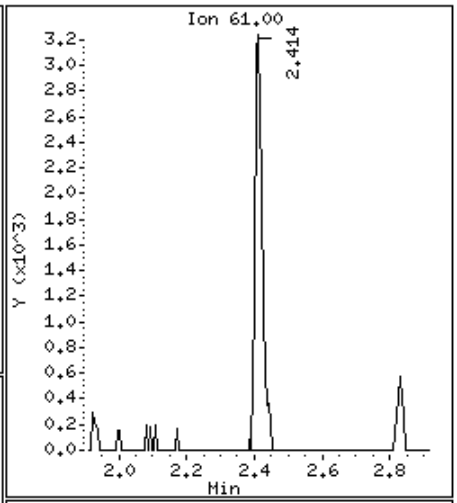
10 1,1-Dichloroethene Concentration: 4.65030 ug/L

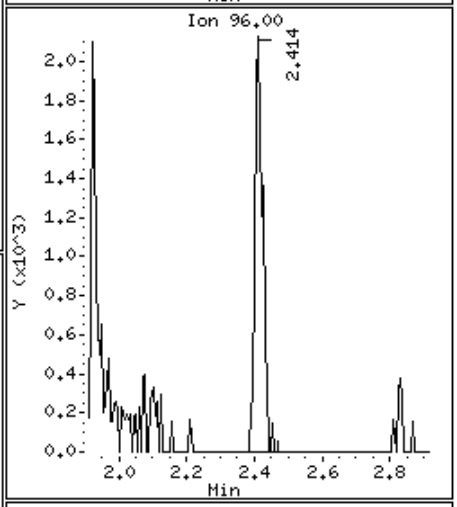


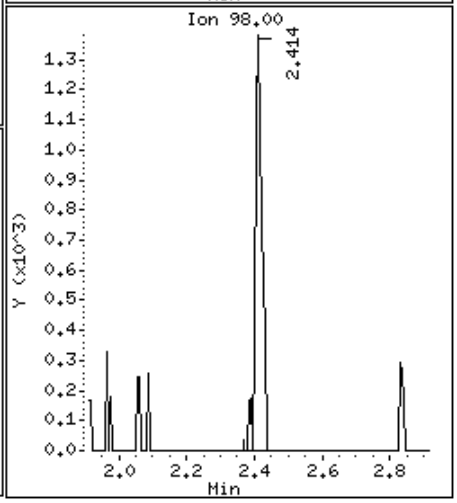












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D Page 3

Date : 28-JUN-2024 17:32

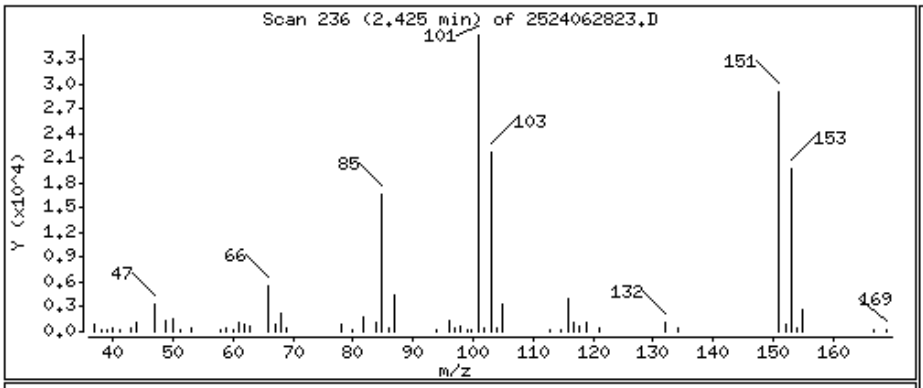
Client ID: HS24060985-04 Instrument: ms25.i

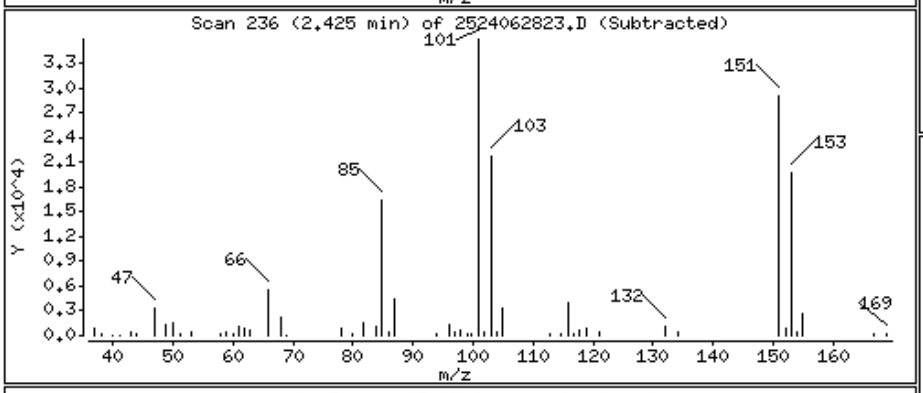
Sample Info: 3366028004;;1;;;;;10

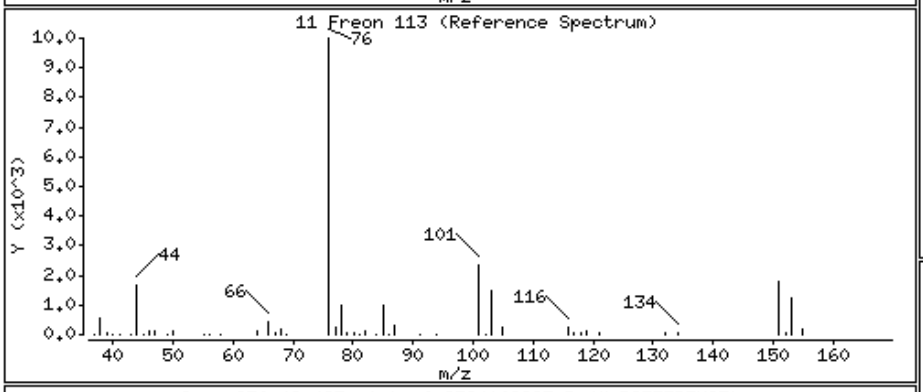
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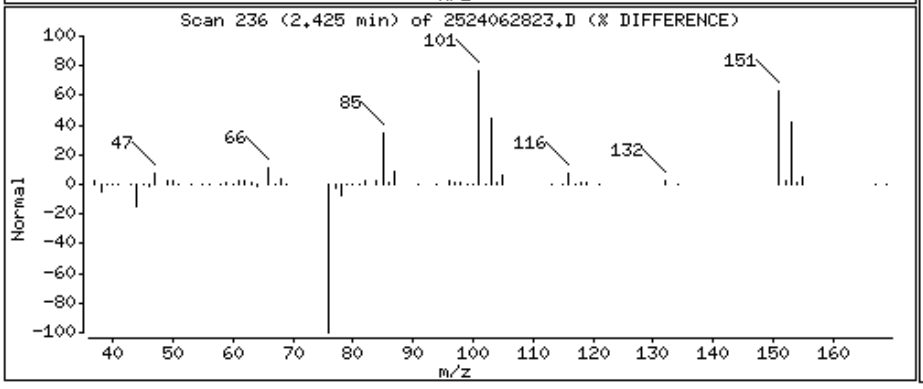
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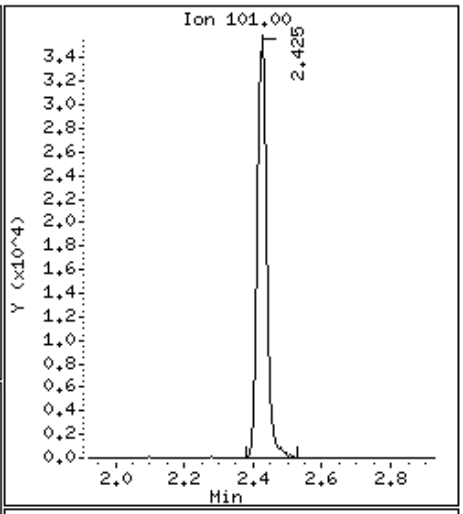
11 Freon 113 Concentration: 95.0302 ug/L

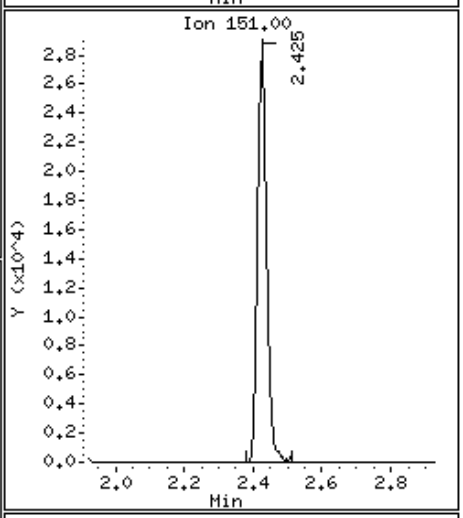


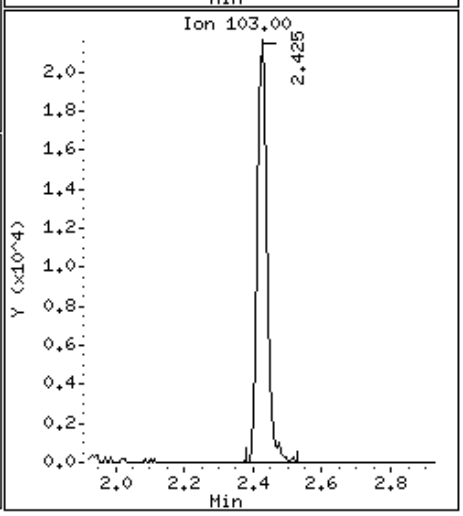












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D Page 4

Date : 28-JUN-2024 17:32

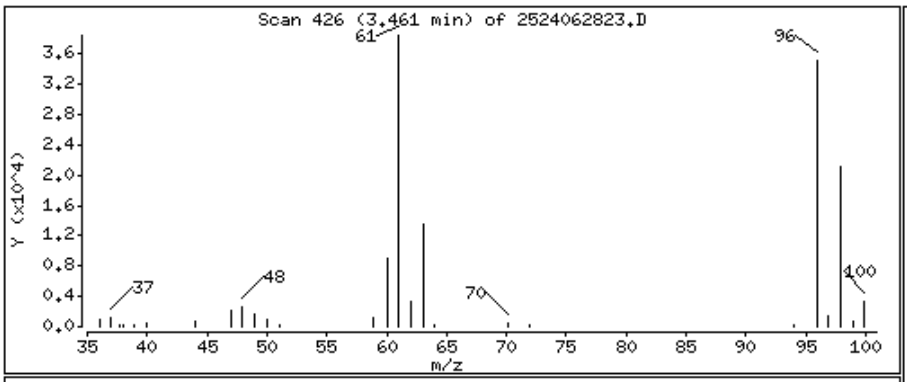
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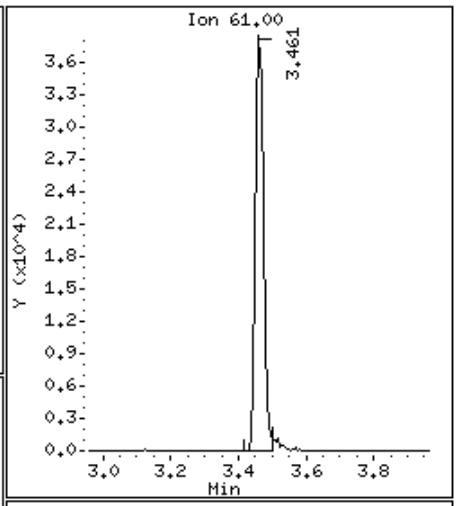
Sample Info: 3366028004;;1;;;;;10

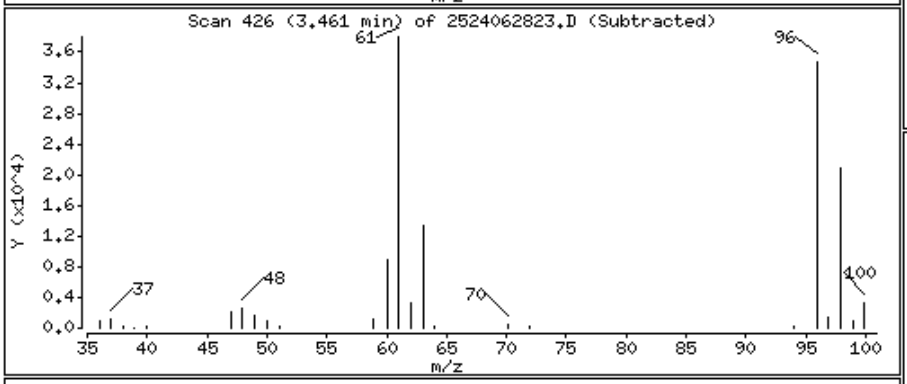
Purge Volume: 5.0 Operator: TMP

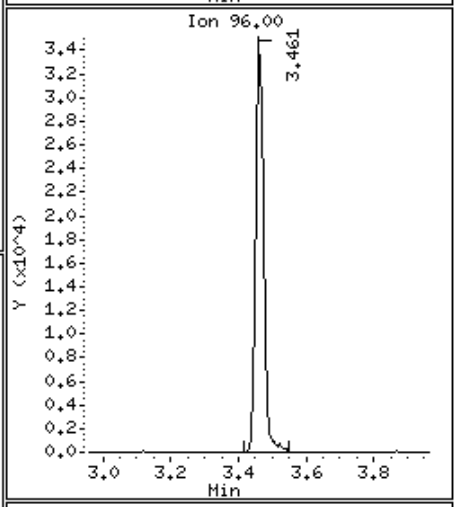
Column phase: DB-VRX Column diameter: 0.25

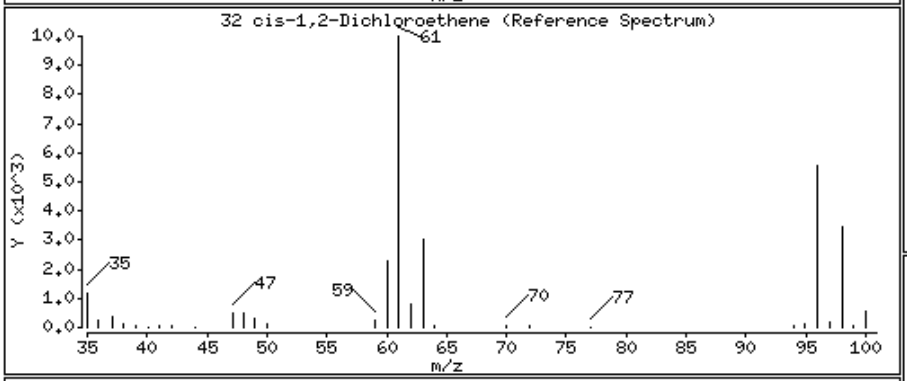
32 cis-1,2-Dichloroethene Concentration: 62.4057 ug/L

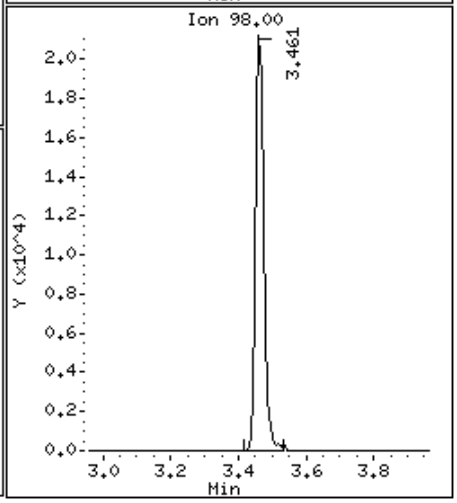


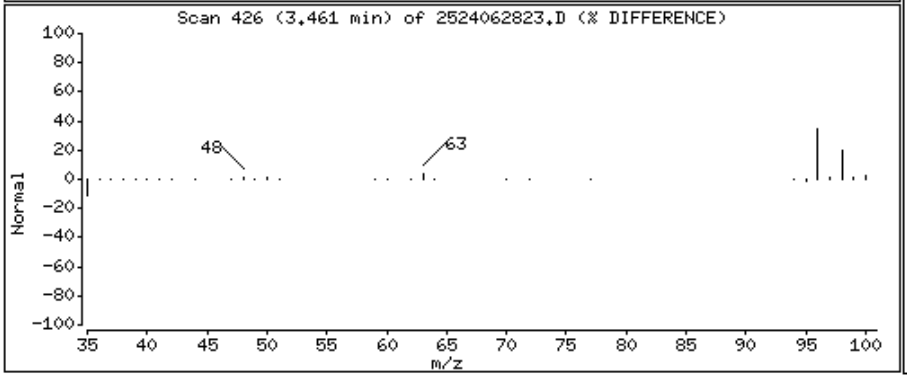












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D Page 5

Date : 28-JUN-2024 17:32

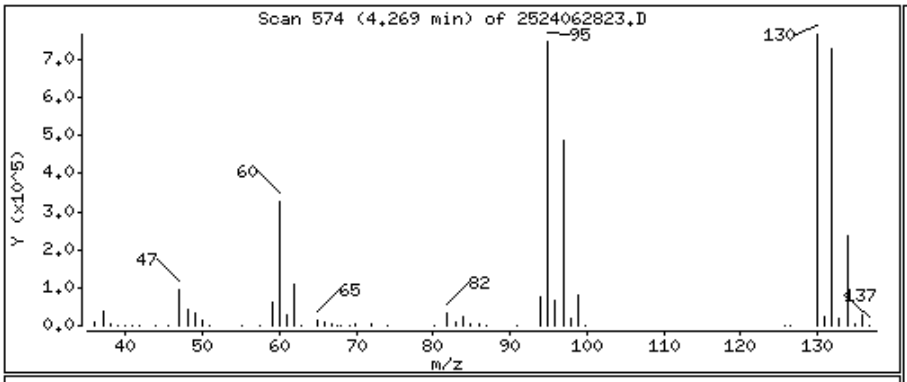
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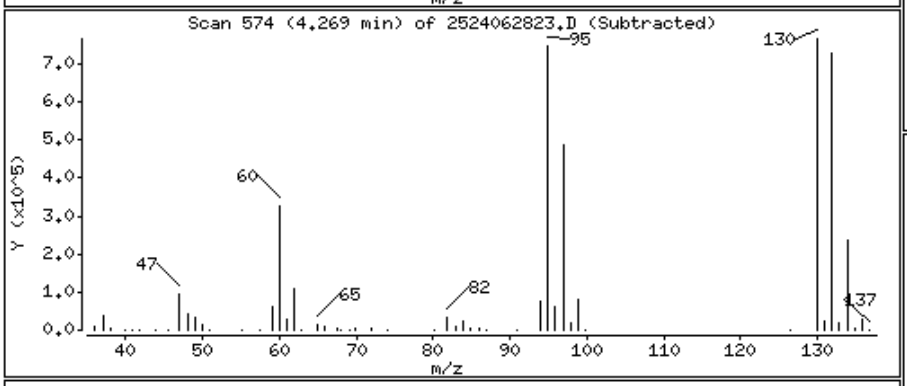
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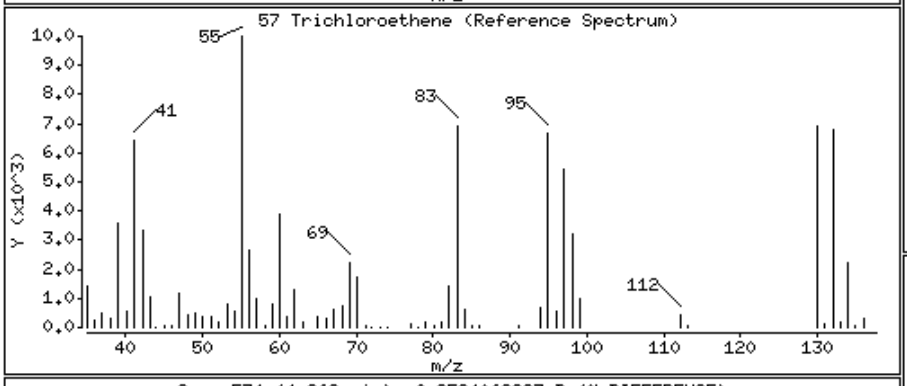
Purge Volume: 5.0 Operator: TMP

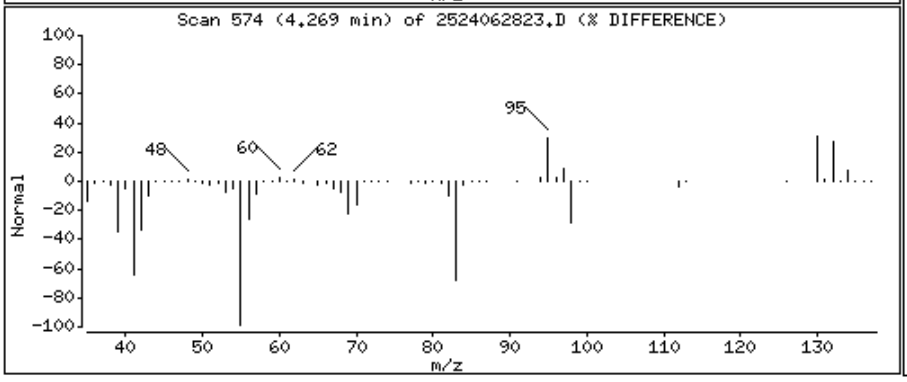
Column phase: DB-VRX Column diameter: 0.25

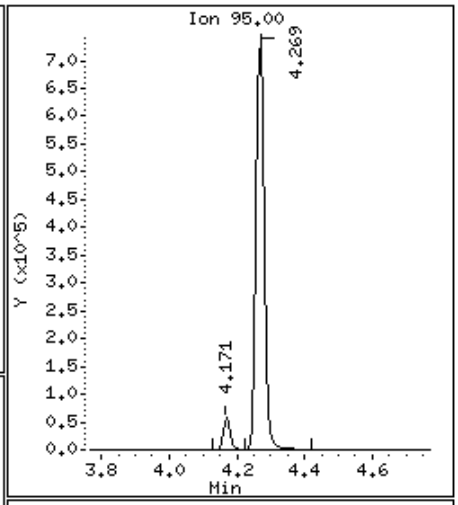
57 Trichloroethene Concentration: 1471.19 ug/L

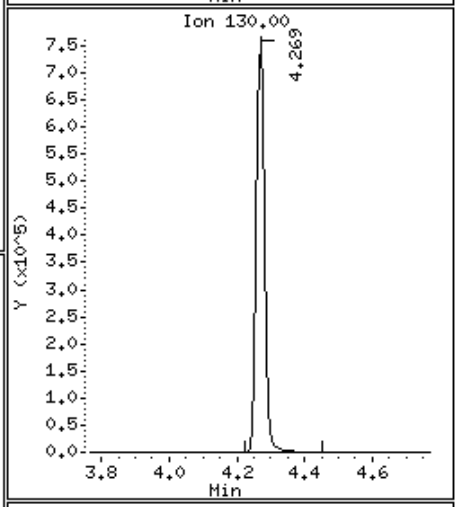


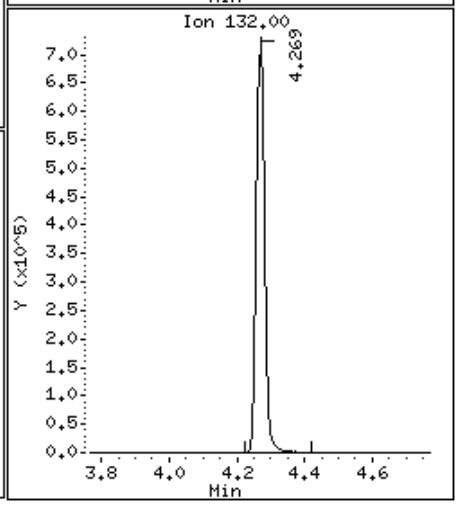












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062823.D
Inj Date : 28-JUN-2024 17:32
InstruID : ms25.i
LabSampID : 3366028004

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:15
Client ID: HS24060985-04
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 17:32
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Acrolein
tert-amyl methyl Ether	tert-Amyl Alcohol
tert-Amyl Ethylether	Bromodichloromethane
Chloroethane	1,2-Dichloroethane
trans-1,2-Dichloroethene	Ethyl methacrylate
2-Hexanone	Methyl cyclohexane
2-Nitropropane	Trichlorofluoromethane

Data File: 2524062824.D Page 1
Report Date: 30-Jun-2024 15:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D
Lab Smp Id: 3366028007 Client Smp ID: HS24060985-08
Inj Date : 28-JUN-2024 17:52
Operator : TMP Inst ID: ms25.i
Smp Info : 3366028007;;1;;;;;10
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 24
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	7834	0.93159	9.31588(a)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	16740	2.83022	28.3022	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	2.866	2.866	(0.687)	9276	0.38757	3.87572(a)	
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524062824.D Page 2
Report Date: 30-Jun-2024 15:15

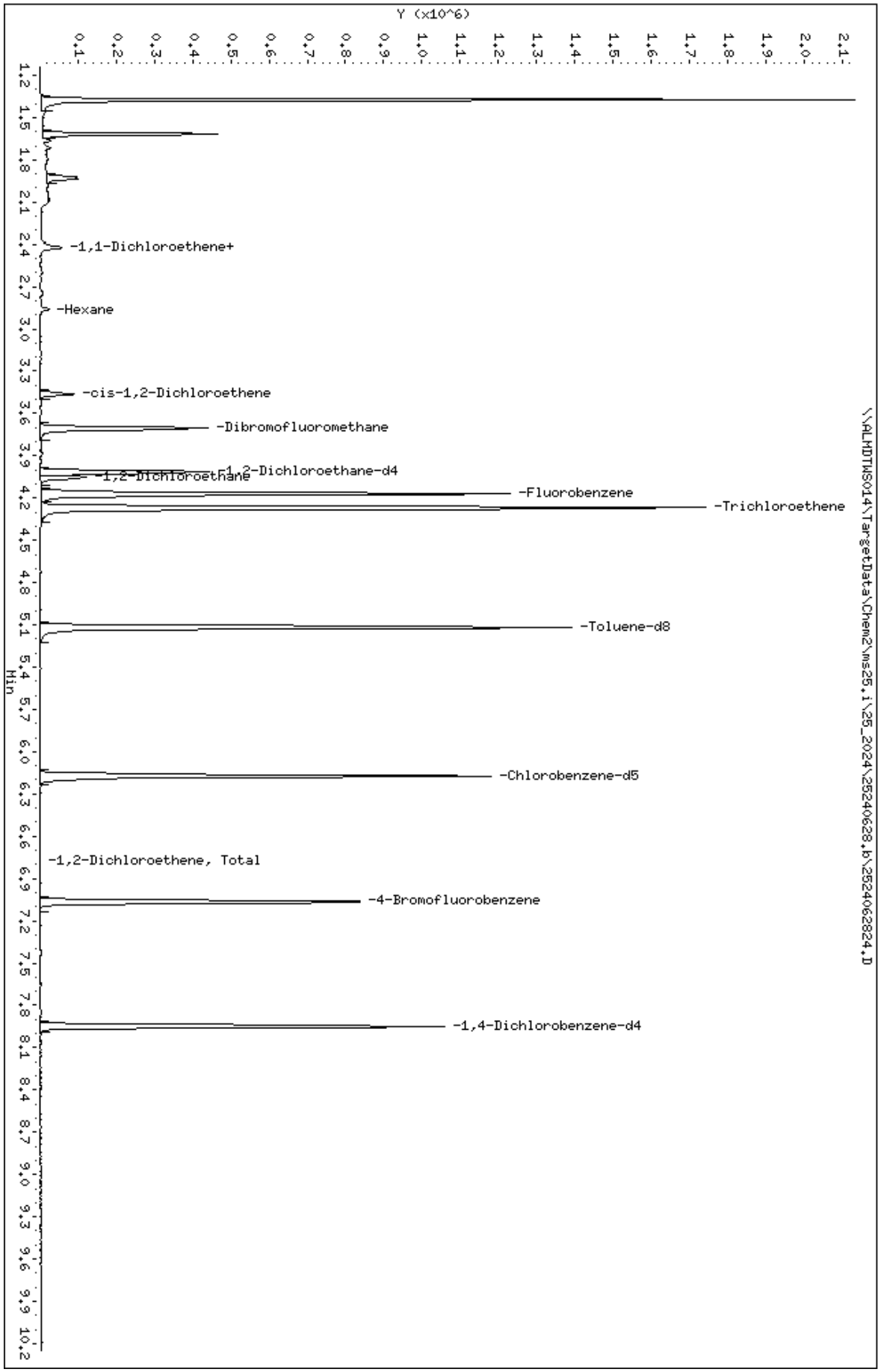
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	38172	4.57081	45.7081	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				38172	4.57081	45.7081	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	208541	30.2353	302.353	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.017	4.012	(0.963)	247554	34.0478	340.478	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	68235	7.91825	79.1825	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	874143	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.268	4.269	(1.024)	463673	66.8326	668.326	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	800264	31.3550	313.550	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062824.D Page 3
Report Date: 30-Jun-2024 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	322367	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	217701	31.0716	310.716	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.951	7.952	(1.000)	253262	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

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



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062824,D
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Client ID: HS24060985-08
Sample Info: 33660280073;1;;;;;;10
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D Page 2

Date : 28-JUN-2024 17:52

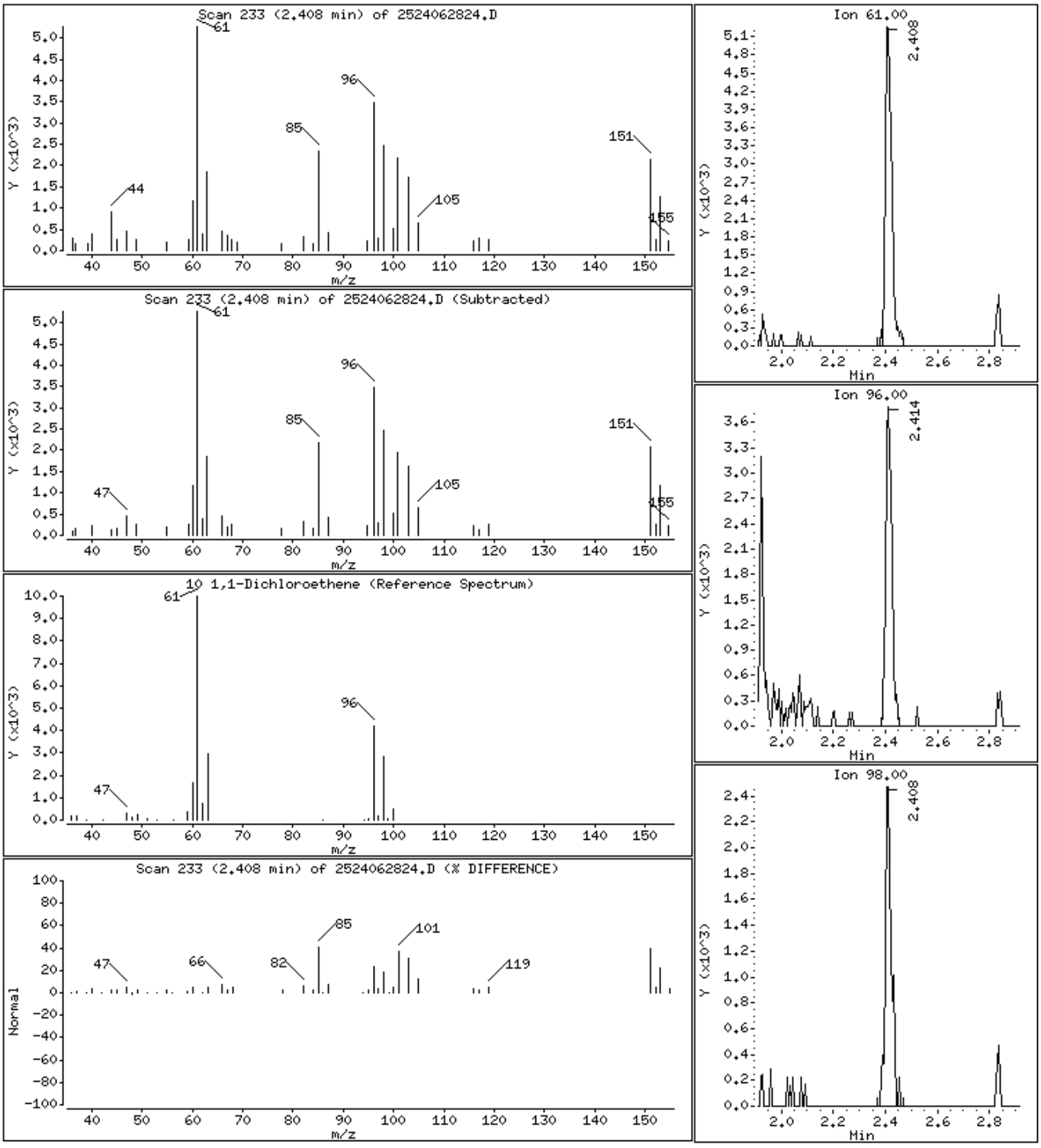
Client ID: HS24060985-08 Instrument: ms25.i

Sample Info: 3366028007;;1;;;;;10

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

10 1,1-Dichloroethene Concentration: 9.31588 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D Page 3

Date : 28-JUN-2024 17:52

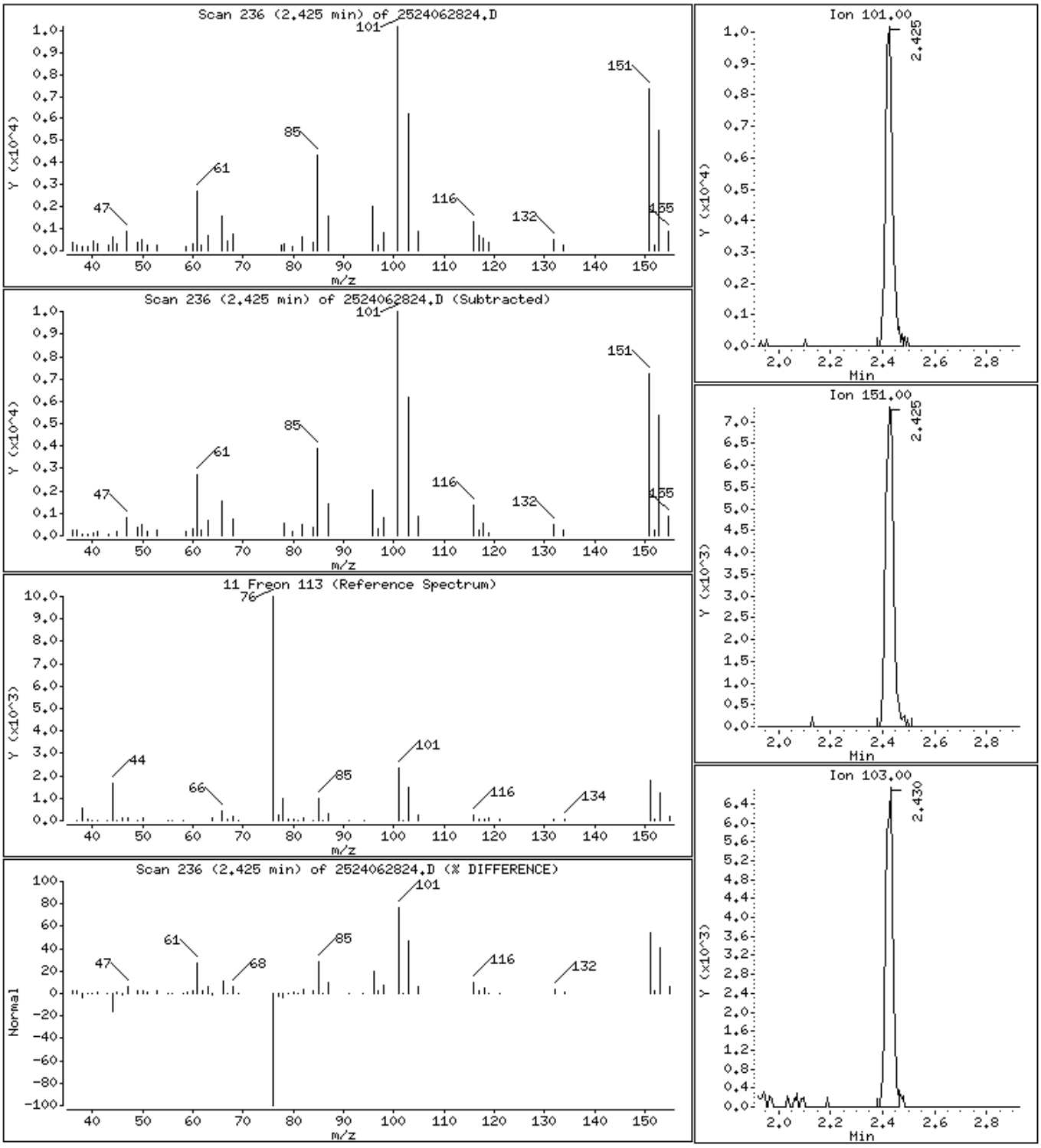
Client ID: HS24060985-08 Instrument: ms25.i

Sample Info: 3366028007;;1;;;;;10

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 28.3022 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D Page 4

Date : 28-JUN-2024 17:52

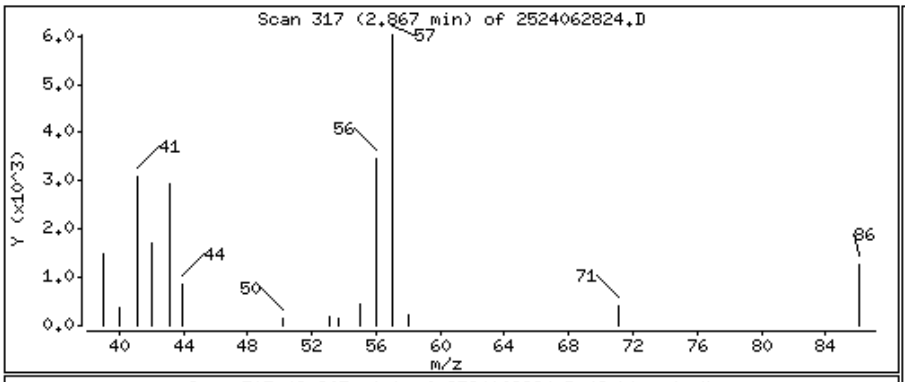
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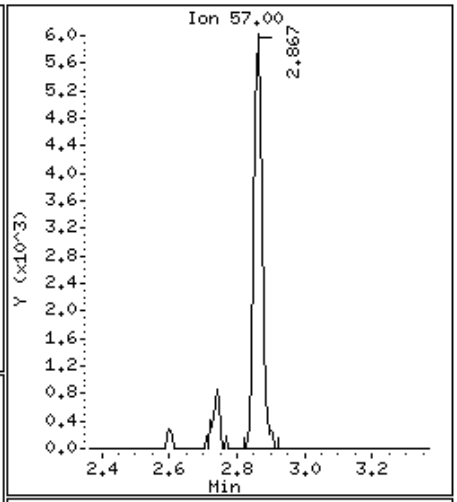
Sample Info: 3366028007;;1;;;;;10

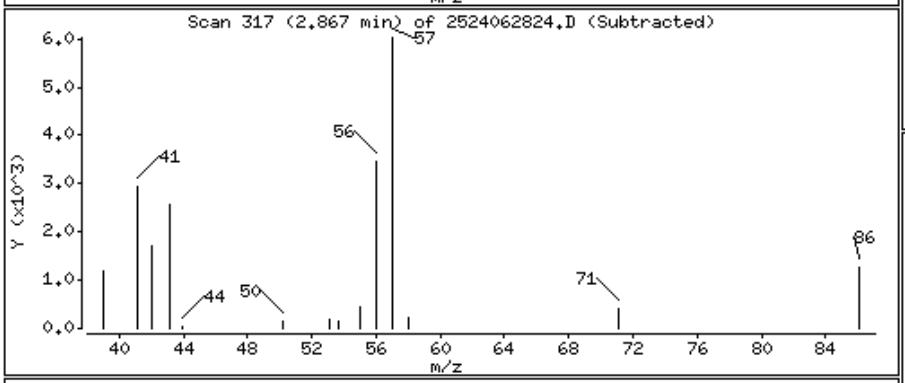
Purge Volume: 5.0 Operator: TMP

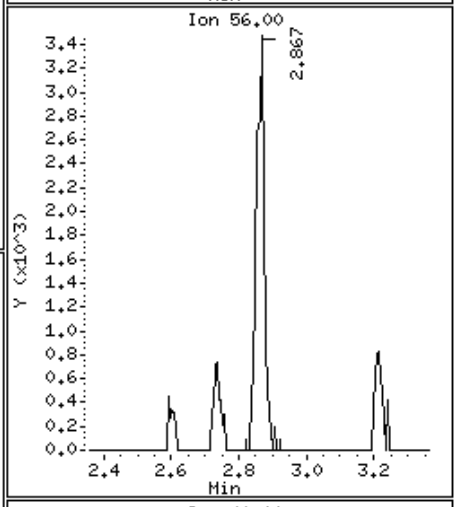
Column phase: DB-VRX Column diameter: 0.25

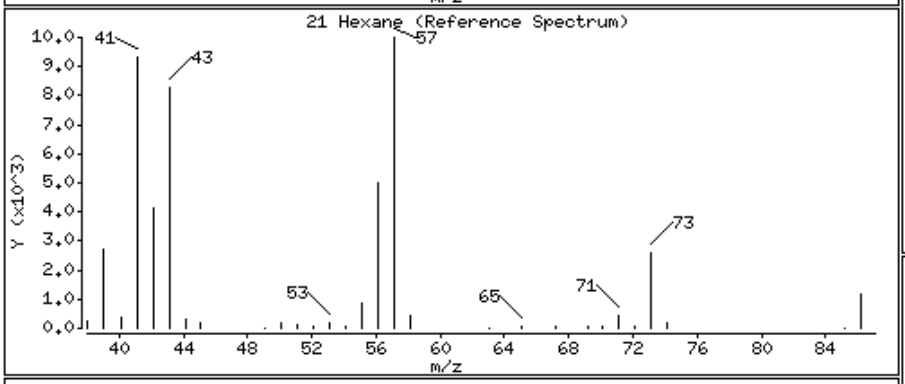
21 Hexane Concentration: 3.87572 ug/L

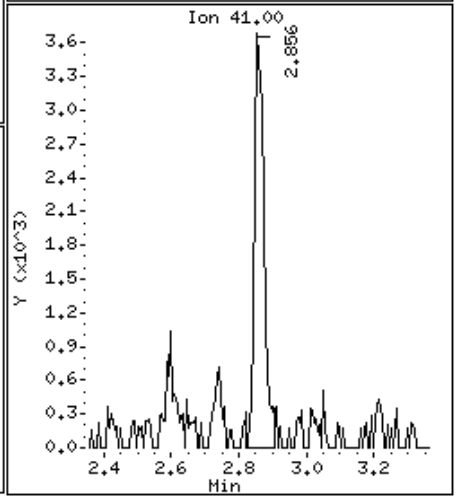


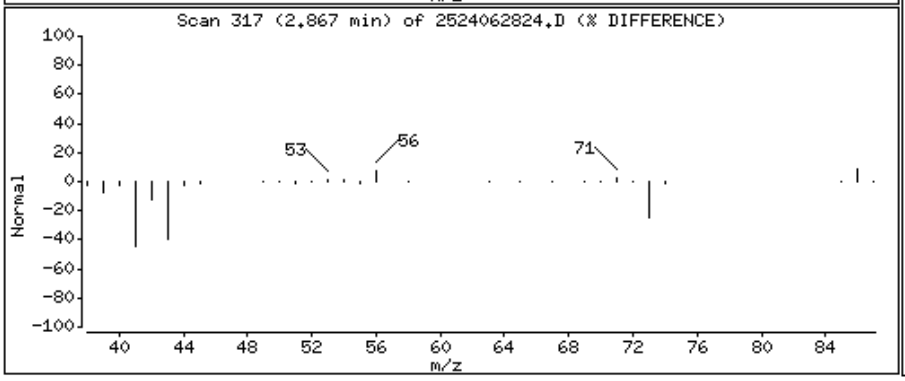












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D Page 5

Date : 28-JUN-2024 17:52

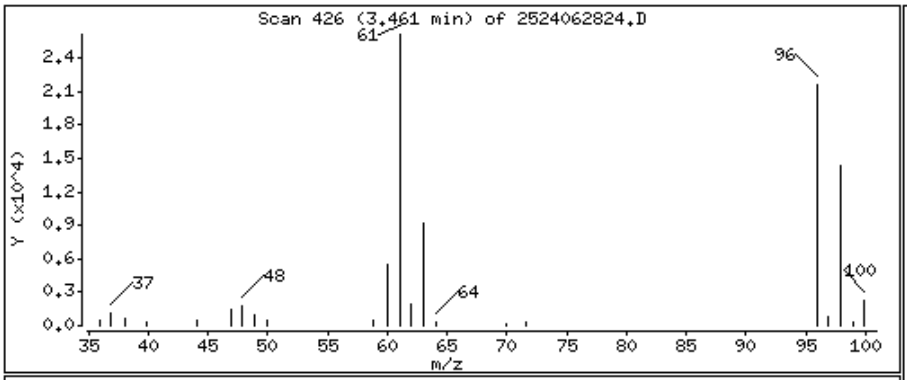
Client ID: HS24060985-08 Instrument: ms25.i

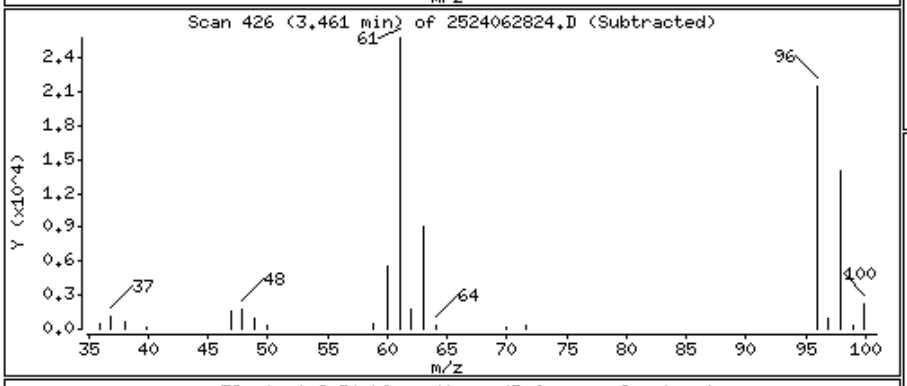
Sample Info: 3366028007;;1;;;;;10

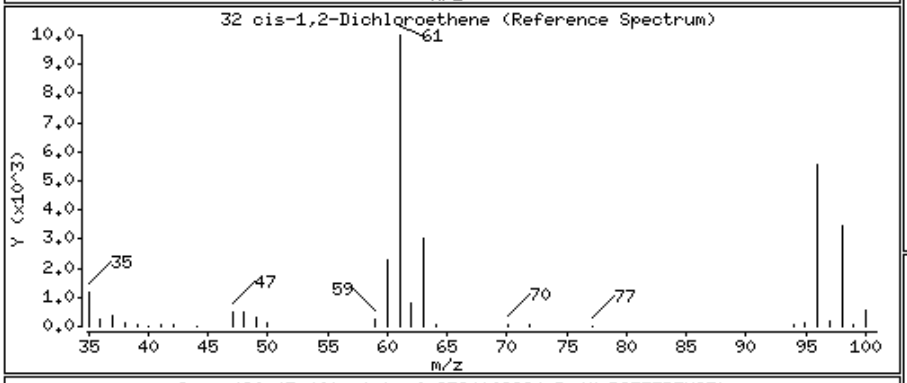
Purge Volume: 5.0 Operator: TMP

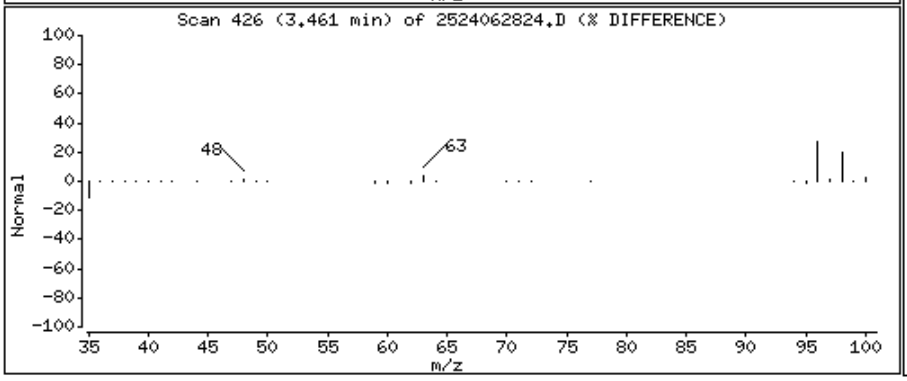
Column phase: DB-VRX Column diameter: 0.25

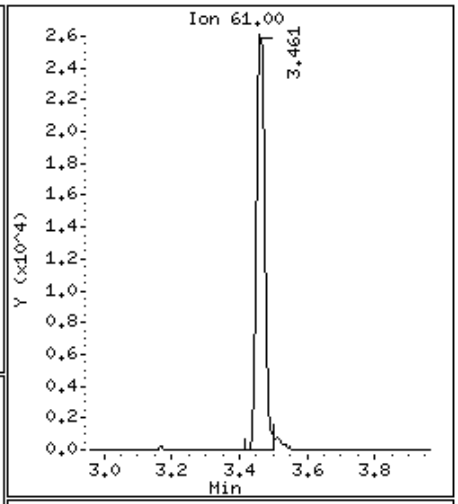
32 cis-1,2-Dichloroethene Concentration: 45.7081 ug/L

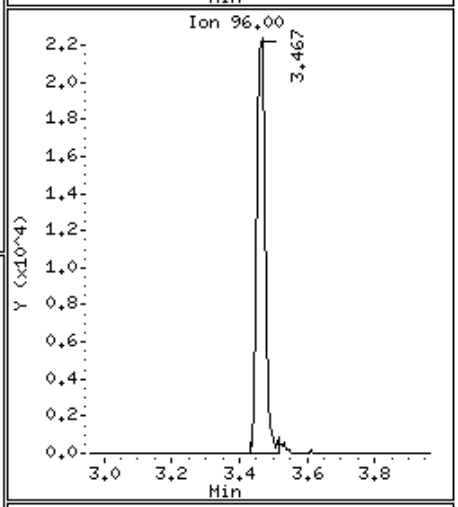


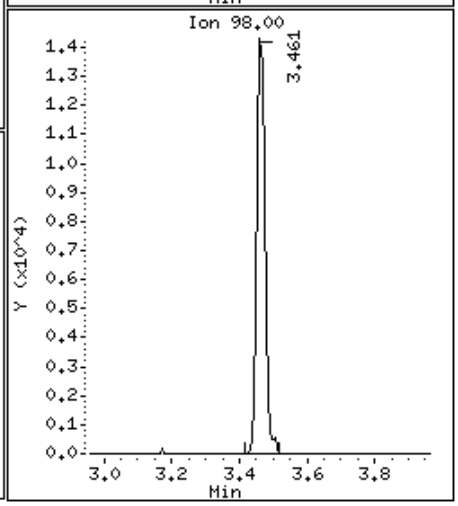












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062824.D Page 6

Date : 28-JUN-2024 17:52

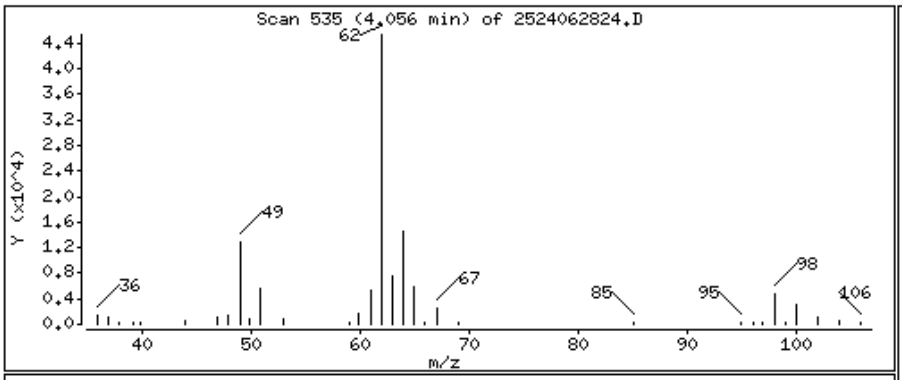
Client ID: HS24060985-08 Instrument: ms25.i

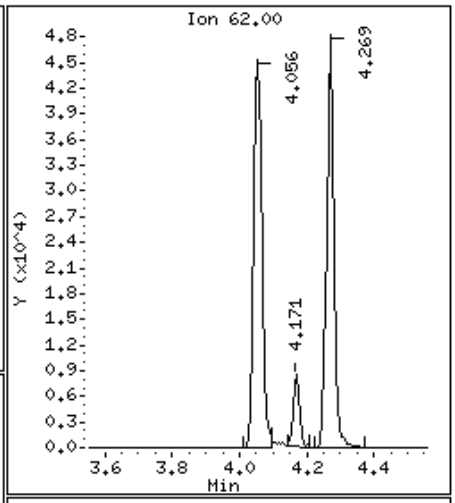
Sample Info: 3366028007;;1;;;;;10

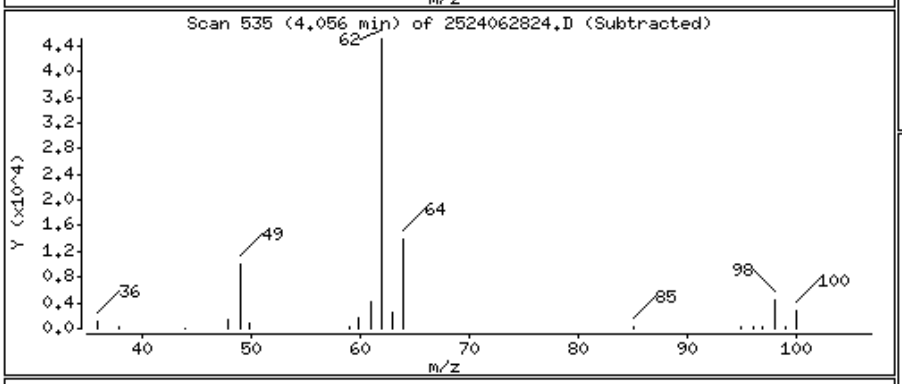
Purge Volume: 5.0 Operator: TMP

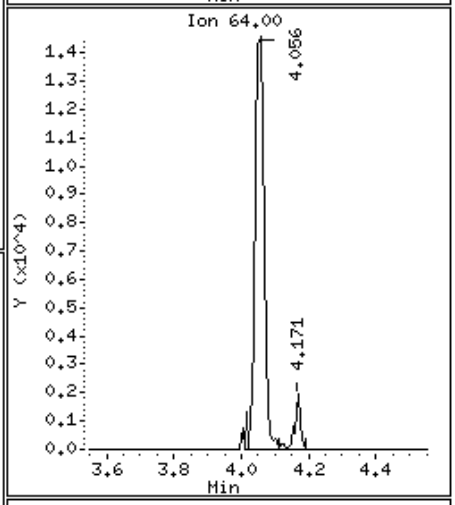
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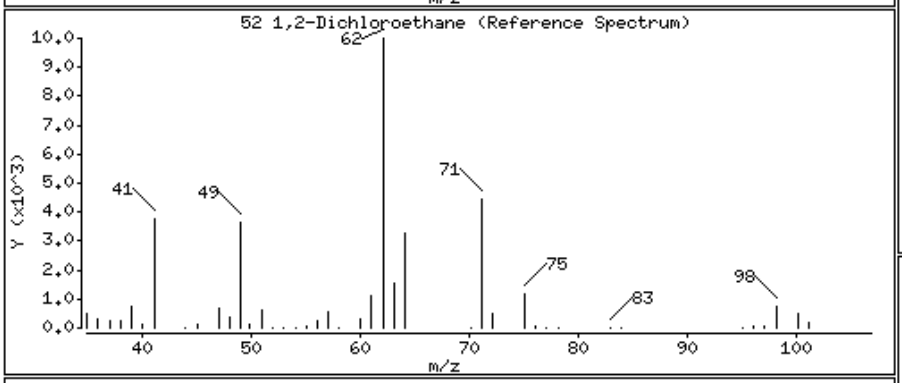
52 1,2-Dichloroethane Concentration: 79.1825 ug/L

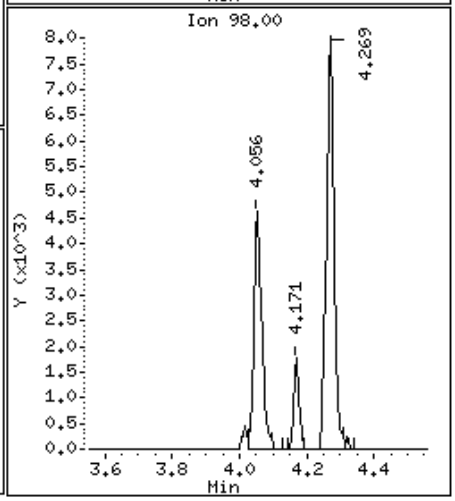


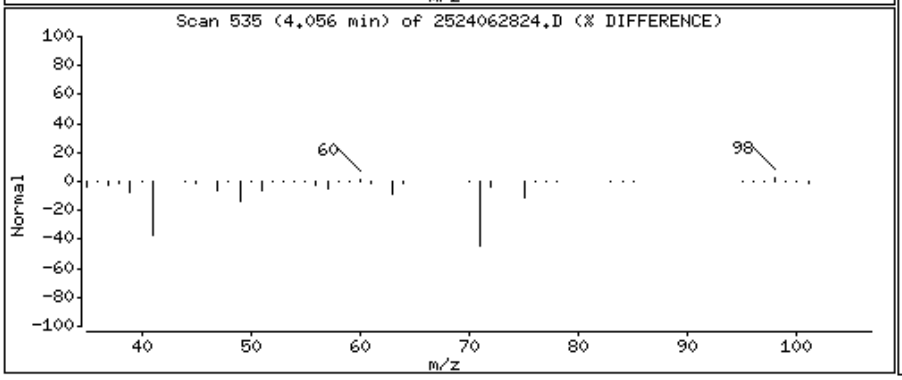












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Date : 28-JUN-2024 17:52

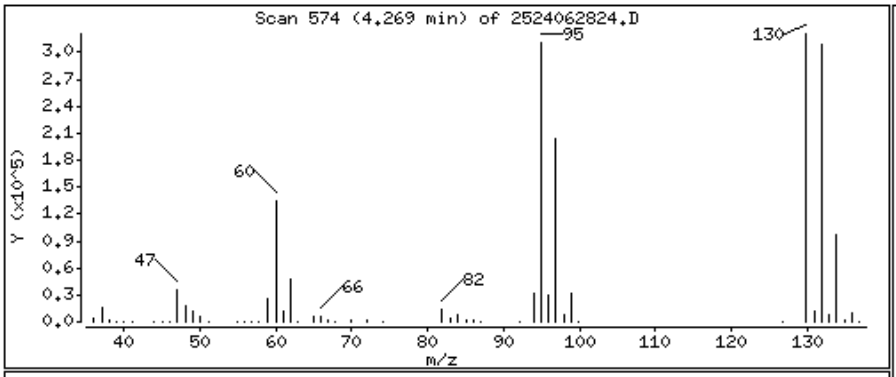
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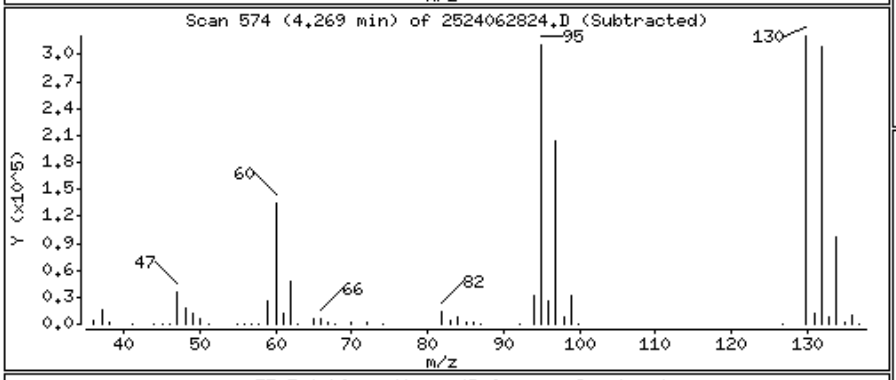
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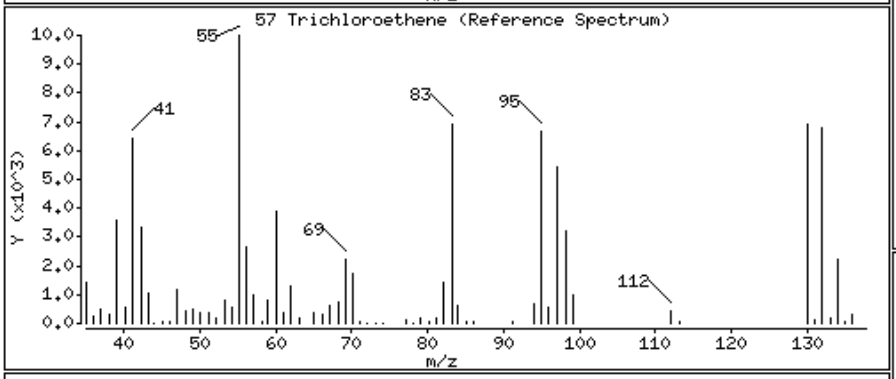
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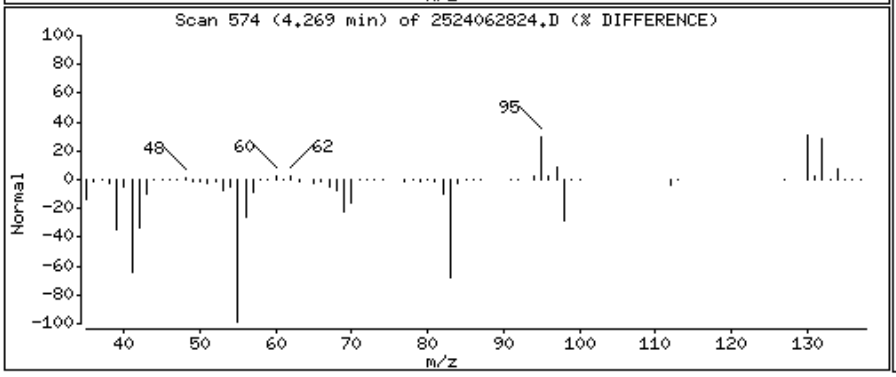
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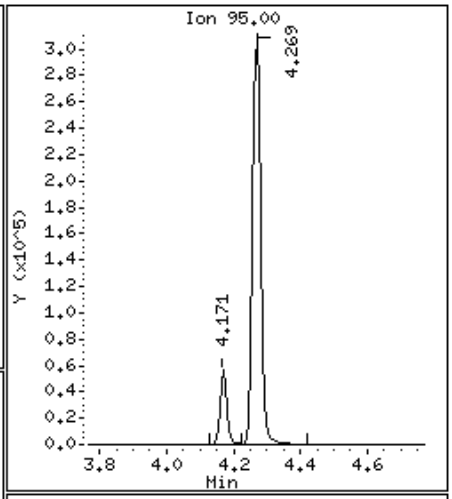
57 Trichloroethene Concentration: 668.326 ug/L

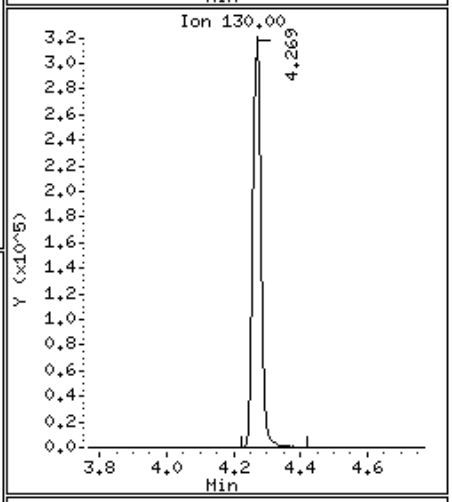


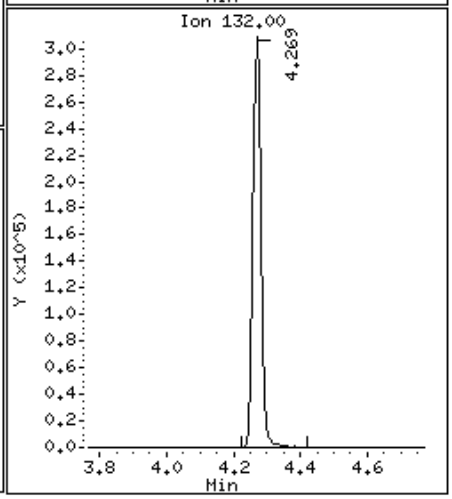












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Inj Date : 28-JUN-2024 17:52
InstruID : ms25.i
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NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:15
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Inj Date: 28-JUN-2024 17:52
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Acrolein
tert-amyl methyl Ether	tert-Amyl Alcohol
tert-Amyl Ethylether	Bromodichloromethane
Chloroethane	trans-1,2-Dichloroethene
Ethyl methacrylate	Heptane
Methyl cyclohexane	2-Nitropropane
Trichlorofluoromethane	Vinyl Chloride

Data File: 2524062829.D Page 1
Report Date: 30-Jun-2024 15:02

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
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Operator : TMP Inst ID: ms25.i
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Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	476524	45.7071	45.7071	
2 Chloromethane	50	1.644	1.644	(0.394)	456530	50.1424	50.1424	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	557838	47.3313	47.3313	
4 Bromomethane	94	1.922	1.922	(0.461)	324391	57.5689	57.5689	
5 Chloroethane	64	2.004	2.004	(0.481)	378630	47.5455	47.5455	
6 Pentane	41	2.092	2.092	(0.502)	284874	38.5449	38.5449	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	739868	45.8306	45.8306	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	740524	49.5748	49.5748	
9 Ethyl Ether	74	2.277	2.277	(0.546)	227654	50.1174	50.1174	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	433428	47.8173	47.8173	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	921041	47.1041	47.1041	
11 Freon 113	101	2.424	2.424	(0.581)	289522	45.4123	45.4123	
13 Iodomethane	127	2.512	2.506	(0.602)	159468	45.4279	45.4279	
14 Acrolein	56	2.599	2.599	(0.623)	336100	229.881	229.881	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	369383	46.7782	46.7782	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	118651	248.249	248.249	
17 Methylene Chloride	84	2.741	2.741	(0.657)	362333	48.9370	48.9370	
18 Acetone	58	2.752	2.752	(0.660)	193216	235.539	235.539	
19 Methyl acetate	74	2.812	2.817	(0.674)	78558	46.5922	46.5922	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	438926	49.4406	49.4406	
21 Hexane	57	2.866	2.866	(0.687)	628444	42.5120	42.5120	

Data File: 2524062829.D
Report Date: 30-Jun-2024 15:02

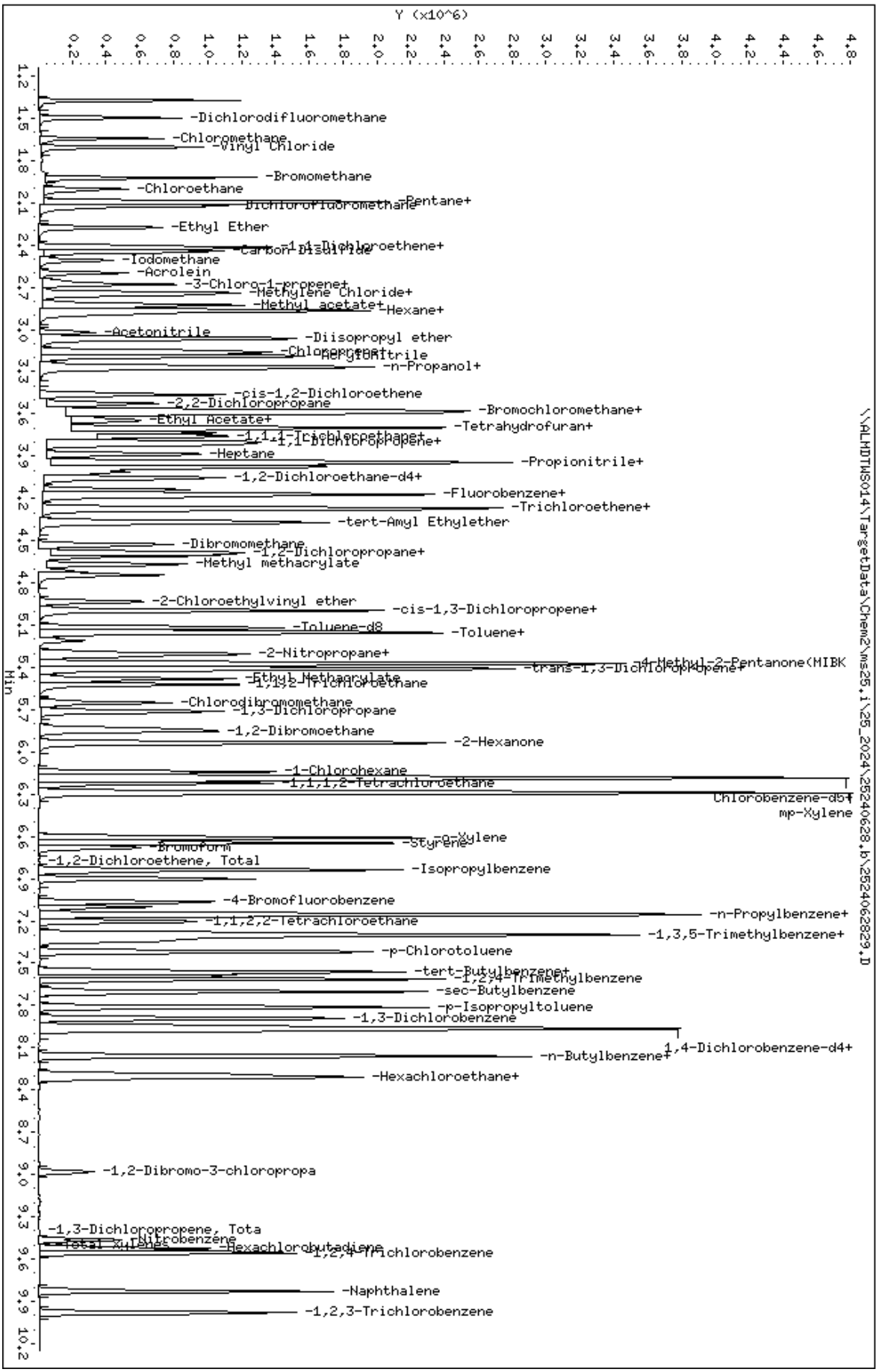
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1071642	47.0650	47.0650	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	206316	251.940	251.940	
	24 Acetonitrile	41	3.019	3.019	(0.724)	249065	271.520	271.520	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1049010	53.2408	53.2408	
	26 Chloroprene	53	3.156	3.156	(0.757)	526396	52.6964	52.6964	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	629854	52.0754	52.0754	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	839842	266.618	266.618	
	30 n-Propanol	41	3.265	3.265	(0.783)	196020	504.987	504.987	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1118143	53.4320	53.4320	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	89926	43.6073	43.6073(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	461210	51.2360	51.2360	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	381332	39.5579	39.5579	
M	100 1,2-Dichloroethene, Total	61				900136	100.677	100.677	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	200996	51.7777	51.7777	
	35 Cyclohexane	84	3.587	3.592	(0.860)	508413	47.0711	47.0711	
	36 Chloroform	83	3.598	3.598	(0.863)	670981	51.3886	51.3886	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	375369	47.9422	47.9422	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	377885	52.1320	52.1320	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	425710	44.3751	44.3751(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	578215	260.929	260.929	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	209520	28.1823	28.1823	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	516738	50.8452	50.8452	
	43 2-Butanone	72	3.761	3.761	(0.902)	265334	247.684	247.684(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	469934	48.8839	48.8839	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	301187	48.7194	48.7194	
	46 Heptane	71	3.887	3.887	(0.932)	215873	38.6515	38.6515	
	48 Propionitrile	54	3.941	3.941	(0.945)	329429	276.176	276.176	
	47 Benzene	78	3.941	3.941	(0.945)	1446292	48.9476	48.9476	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	188826	52.8076	52.8076	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1074915	53.2128	53.2128	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	260324	33.2171	33.2171	
	54 Isobutyl alcohol	42	3.990	3.985	(0.957)	121962	669.056	669.056(Q)	
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	463933	49.9465	49.9465	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	153589	244.452	244.452	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	942225	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	821093	44.8583	44.8583	
	57 Trichloroethene	95	4.269	4.269	(1.024)	355017	47.4738	47.4738	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	550069	44.3755	44.3755	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	836182	47.5019	47.5019	
	60 Dibromomethane	93	4.525	4.525	(1.085)	244768	51.7755	51.7755	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	372299	52.3518	52.3518	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	450237	45.5497	45.5497	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	302498	53.7466	53.7466	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	238328	45.8236	45.8236	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	567120	43.9005	43.9005	
	67 Octane	85	5.000	5.000	(0.810)	180194	38.3388	38.3388	
$	68 Toluene-d8	98	5.114	5.120	(0.829)	835520	27.6150	27.6150	
	69 Toluene	92	5.153	5.153	(0.835)	858364	44.7604	44.7604	
	70 Chloroacetonitrile	75	5.207	5.213	(0.844)	118069	246.977	246.977	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	472406	224.832	224.832	
	72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	44432	218.793	218.793(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1896985	250.489	250.489	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	520501	43.5154	43.5154	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	331283	47.4416	47.4416	

Data File: 2524062829.D Page 3
Report Date: 30-Jun-2024 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	537352	46.5111	46.5111	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	288637	48.9880	48.9880	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	362794	43.4851	43.4851	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	587376	50.4563	50.4563	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	356010	45.4159	45.4159	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1274042	245.242	245.242	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	469930	46.5805	46.5805	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	382152	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	497347	43.5094	43.5094	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	928765	47.5253	47.5253	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	325454	44.1445	44.1445	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1182450	87.0549	87.0549	
M	120 1,3-Dichloropropene, Total	75				1087621	87.4159	87.4159	
	88 o-Xylene	106	6.610	6.610	(1.071)	577425	44.4001	44.4001	
	89 Styrene	104	6.648	6.648	(0.836)	932750	48.8613	48.8613	
	90 Bromoform	173	6.680	6.680	(0.840)	239570	44.4634	44.4634	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1301392	48.9014	48.9014	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262926	29.4423	29.4423	
M	121 TOTAL XYLENES	106				1759875	131.455	131.455	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	396133	50.7584	50.7584	
	93 Bromobenzene	156	7.155	7.155	(0.900)	389157	50.9900	50.9900	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	417109	54.9865	54.9865	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1118950	51.5170	51.5170	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1080859	52.6401	52.6401	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	129851	53.0742	53.0742	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	110229	47.3695	47.3695	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	978055	52.5878	52.5878	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	274430	52.8285	52.8285	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	225745	43.3149	43.3149(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1122954	48.8222	48.8222	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1424919	53.0807	53.0807	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	318897	51.8753	51.8753	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	659391	51.2832	51.2832	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	322801	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	682826	50.9482	50.9482	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	281265	48.9601	48.9601(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	97200	30.4434	30.4434(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	209993	45.6209	45.6209	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	641643	52.3882	52.3882	
	114 1,2-Dibromo-3-chloropropane	75	8.978	8.983	(1.129)	67946	46.8626	46.8626	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	212100	451.116	451.116	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	173297	42.8044	42.8044	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	406711	50.1434	50.1434	
	118 Naphthalene	128	9.829	9.829	(1.236)	1109774	46.5708	46.5708	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	406481	44.6345	44.6345	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

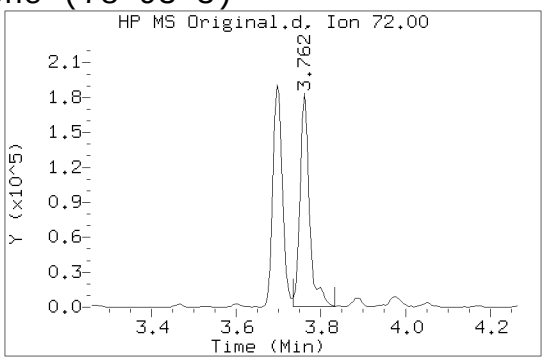

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25240628029.D
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Date : 28-JUN-2024 19:34
Client ID:
Sample Info: 1801;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
Inj Date : 28-JUN-2024 19:34
InstruID : ms25.i
LabSampID : 1801

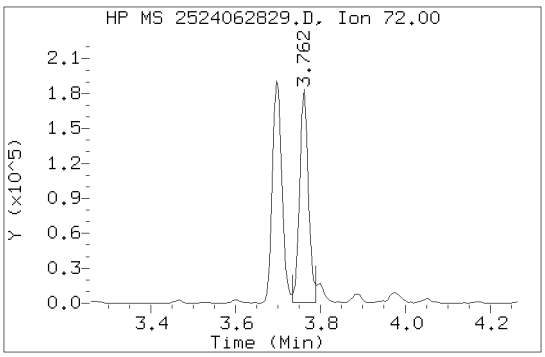
2-Butanone (78-93-3)

Reason Code: MP

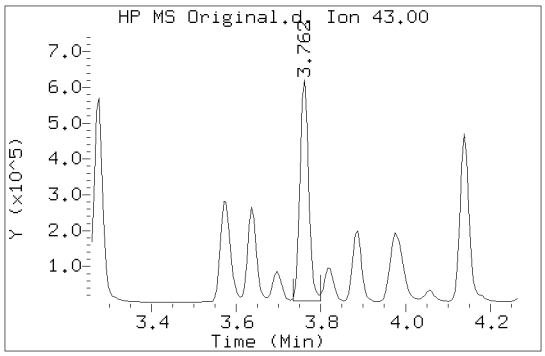
BEFORE
MASS
72
AREA
284046
HEIGHT
183234
29-Jun-2024
10:34



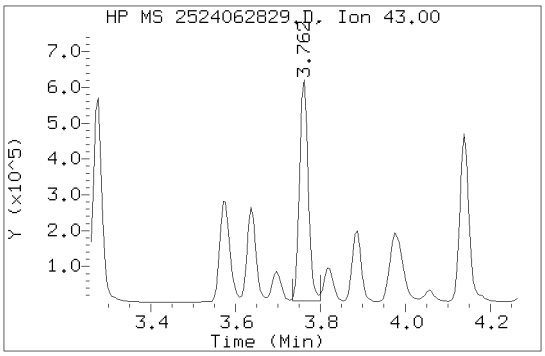
AFTER
MASS
72
AREA
265334
HEIGHT
183235
30-Jun-2024
15:02



BEFORE
MASS
43
AREA
892235
HEIGHT
617590
29-Jun-2024
10:34



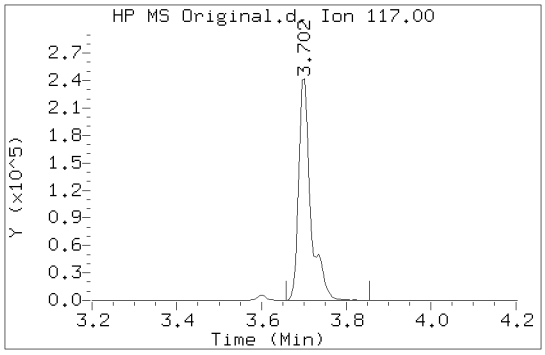
AFTER
MASS
43
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892235
HEIGHT
617590
30-Jun-2024
15:02



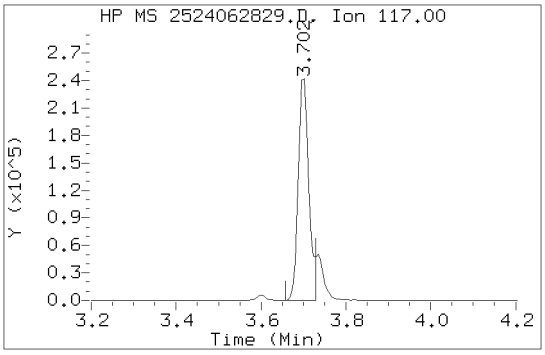
Carbon Tetrachloride (56-23-5)

Reason Code: MP

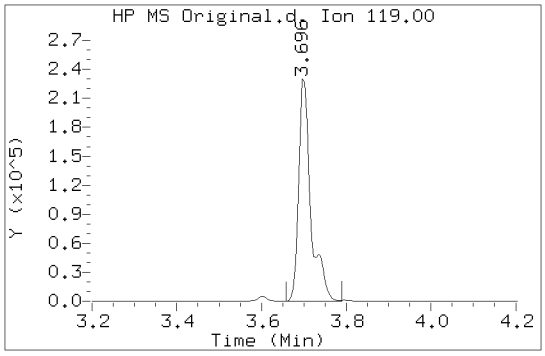
BEFORE
MASS
117
AREA
482579
HEIGHT
241984
29-Jun-2024
10:34



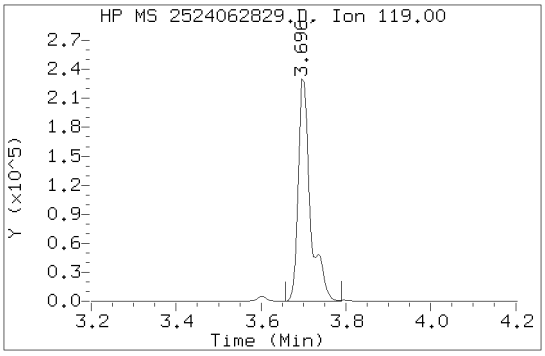
AFTER
MASS
117
AREA
425710
HEIGHT
241984
30-Jun-2024
15:02



BEFORE
MASS
119
AREA
460857
HEIGHT
230080
29-Jun-2024
10:34



AFTER
MASS
119
AREA
460857
HEIGHT
230080
30-Jun-2024
15:02



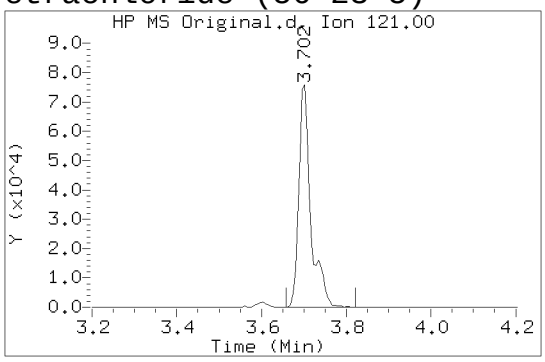
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
Inj Date : 28-JUN-2024 19:34
InstruID : ms25.i
LabSampID : 1801

Carbon Tetrachloride (56-23-5)

Reason Code: MP

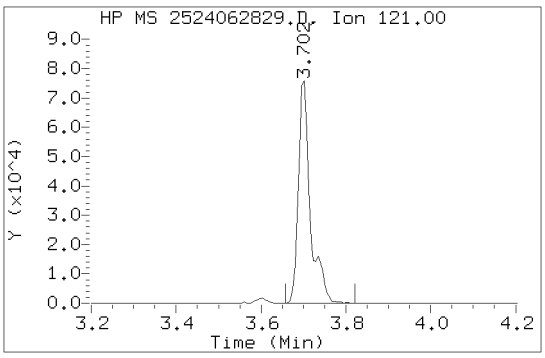
BEFORE

MASS
121
AREA
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HEIGHT
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29-Jun-2024
10:34



AFTER

MASS
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AREA
148990
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30-Jun-2024
15:02

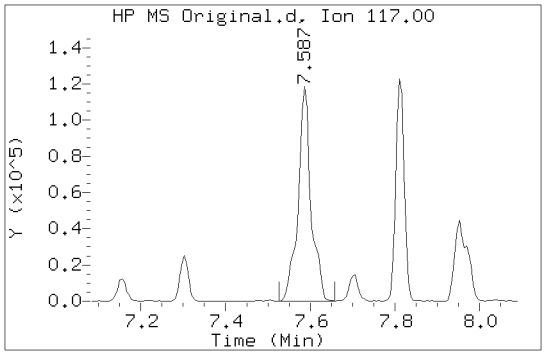


Pentachloroethane (76-01-7)

Reason Code: MP

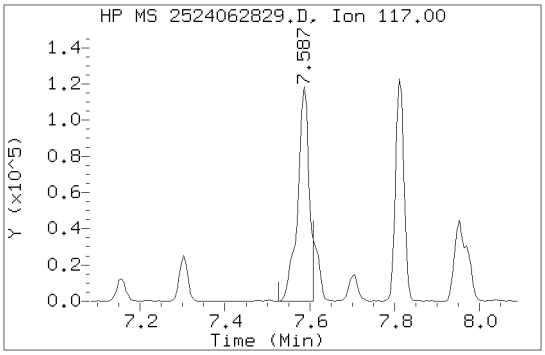
BEFORE

MASS
117
AREA
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HEIGHT
118432
29-Jun-2024
10:34



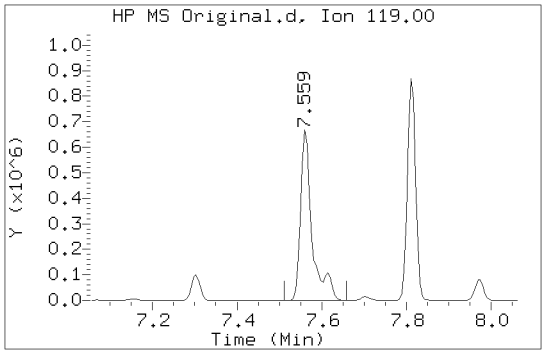
AFTER

MASS
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AREA
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HEIGHT
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30-Jun-2024
15:02



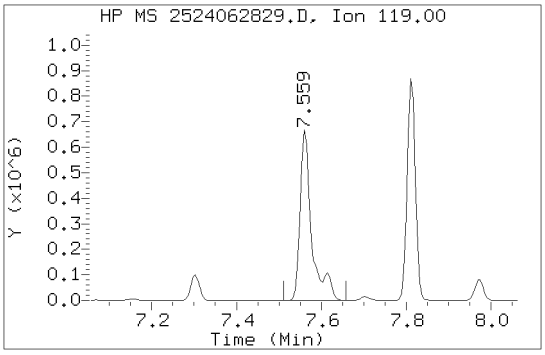
BEFORE

MASS
119
AREA
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HEIGHT
668288
29-Jun-2024
10:34



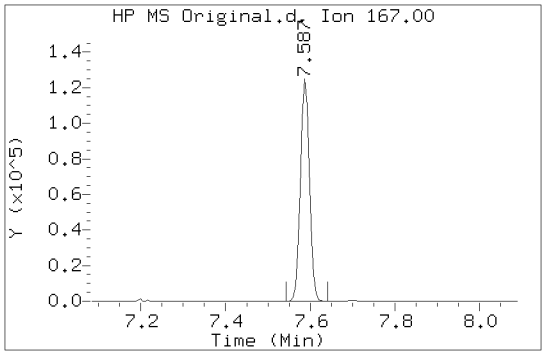
AFTER

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HEIGHT
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30-Jun-2024
15:02



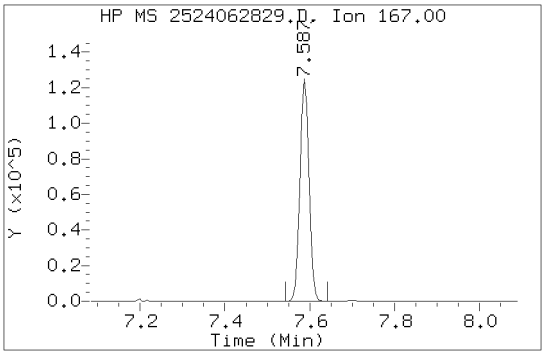
BEFORE

MASS
167
AREA
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HEIGHT
124920
29-Jun-2024
10:34



AFTER

MASS
167
AREA
185815
HEIGHT
124920
30-Jun-2024
15:02



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:02
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 19:34
Operator: TMP

There were no Unassigned peaks in this sample!

HS24060985 E2400696 Perch Level IV Report

ALS WO# HS24060985

June 26, 2024 Service Request No:E2400696

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060985

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 15, 2024
For your reference, these analyses have been assigned our service request number **E2400696.**

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.:**	E2400696
Project:	HS24060985	**Date Received:**	06/15/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 06/15/24.

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:

EQ2400343: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

Samples E2400696-009, 010, ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run.

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:**E2400696
Project: HS24060985

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400696-001	18CPTMW10DW-061424	6/14/2024	0735
E2400696-002	18CPTMW10DW-061424-a	6/14/2024	0735
E2400696-003	18CPTMW10SW-061424	6/14/2024	0650
E2400696-004	MW9-061424	6/14/2024	0820
E2400696-005	MW10-061424	6/14/2024	0900
E2400696-006	18WW10-061424	6/14/2024	0945
E2400696-007	MW17-061424	6/14/2024	1030
E2400696-008	MW16-061424	6/14/2024	1115
E2400696-009	17WW08-061424	6/14/2024	1200
E2400696-010	17WW08-061424-a	6/14/2024	1200

Service Request Summary

Folder #: **E2400696**
Client Name: ALS Environmental - US
Project Name: HS24060985
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/15/24
Internal Due Date: 6/27/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400696-001	18CPTMW10DW-061424	Ground Water	06/14/24 0735	**IV**
E2400696-002	18CPTMW10DW-061424-a	Ground Water	06/14/24 0735	**IV**
E2400696-003	18CPTMW10SW-061424	Ground Water	06/14/24 0650	**IV**
E2400696-004	MW9-061424	Ground Water	06/14/24 0820	**IV**
E2400696-005	MW10-061424	Ground Water	06/14/24 0900	**IV**
E2400696-006	18WW10-061424	Ground Water	06/14/24 0945	**IV**
E2400696-007	MW17-061424	Ground Water	06/14/24 1030	**IV**
E2400696-008	MW16-061424	Ground Water	06/14/24 1115	**IV**
E2400696-009	17WW08-061424	Ground Water	06/14/24 1200	**IV**
E2400696-010	17WW08-061424-a	Ground Water	06/14/24 1200	**IV**

Service Request Summary

Folder #: **E2400696**
Client Name: ALS Environmental - US
Project Name: HS24060985
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/15/24
Internal Due Date: 6/27/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

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
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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

E24060985

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: **Texas** **COC ID:** **26021**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060985
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060985-01**	**18CPTMW10DW-061424**	**Groundwater**	**14 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
2.	**HS24060985-02**	**18CPTMW10DW-061424-a**	**Groundwater**	**14 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
3.	**HS24060985-03**	**18CPTMW10SW-061424**	**Groundwater**	**14 Jun 2024 06:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
4.	**HS24060985-04**	**MW9-061424**	**Groundwater**	**14 Jun 2024 08:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
5.	**HS24060985-05**	**MW10-061424**	**Groundwater**	**14 Jun 2024 09:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
6.	**HS24060985-06**	**18WW10-061424**	**Groundwater**	**14 Jun 2024 09:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
7.	**HS24060985-07**	**MW17-061424**	**Groundwater**	**14 Jun 2024 10:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
8.	**HS24060985-08**	**MW16-061424**	**Groundwater**	**14 Jun 2024 11:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26021**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
9.	**HS24060985-09**	**17WW08-061424**	**Groundwater**	**14 Jun 2024 12:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 2024
10.	**HS24060985-10**	**17WW08-061424-a**	**Groundwater**	**14 Jun 2024 12:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			01 Jul 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: 6.17.24 1810

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E24000694

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060985 **Date/Time received:** 15 Jun 2024 09:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Ruben Estrada-Jr

Completed/By: 17 Jun 2024 11:30 Paresh M. Giga **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: GW/Water **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s): none	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		
Temperature(s)/Thermometer(s):	2.2C/2.3C U/C		IR31	
Cooler Information:	1 Cooler(s), 51016			
Date/Time sample(s) sent to storage:	6/17/24 12:00			
Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted	
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable	
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable	

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400696-001	18CPTMW10DW-061424	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2400696-002	18CPTMW10DW-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400696-003	18CPTMW10SW-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400696-004	MW9-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
5	E2400696-005	MW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
6	E2400696-006	18WW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
7	E2400696-007	MW17-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2400696-008	MW16-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
9	E2400696-009	17WW08-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
10	E2400696-010	17WW08-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
11	E2400710-001	2406130941A BLM-27-270	.01	6850/ClO4			Water	10mL	
12	E2400715-001	1824DOTTMW02_061724	.01	6850/ClO4 DOD			Water	10mL	
13	E2400715-002	18WW18_061724	.01	6850/ClO4 DOD			Water	10mL	
14	E2400715-003	CO3_061724	.01	6850/ClO4 DOD			Water	10mL	
15	E2400715-004	1824DOTTMW01_061724	.01	6850/ClO4 DOD			Water	10mL	
16	E2400715-005	18CPTMW18_061724	.01	6850/ClO4 DOD			Water	10mL	
17	E2400715-006	1824DOTTMW03_061724	.01	6850/ClO4 DOD			Water	10mL	
18	E2400715-007	MW19_061724	.01	6850/ClO4 DOD			Water	10mL	
19	E2400715-008	MW18_061724	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400343-02	LCS		6850/ClO4			Liquid	10mL	
21	EQ2400343-03	DLCS		6850/ClO4			Liquid	10mL	
22	EQ2400343-04	MB		6850/ClO4			Liquid	10mL	
23	EQ2400343-05	ICS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400343-02 10.00µL EQ2400343-02 10.00µL EQ2400343-03 10.00µL EQ2400343-03 10.00µL EQ2400343-05 10.00µL EQ2400343-05 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400343-05 20.00µL EQ2400343-05 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400696-001 100.00µL E2400696-002 100.00µL E2400696-003 100.00µL E2400696-004 100.00µL E2400696-005 100.00µL E2400696-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

E2400696-007	100.00µL	E2400696-008	100.00µL	E2400696-009	100.00µL	E2400696-010	100.00µL	E2400710-001	100.00µL	E2400715-001	100.00µL
E2400715-002	100.00µL	E2400715-003	100.00µL	E2400715-004	100.00µL	E2400715-005	100.00µL	E2400715-006	100.00µL	E2400715-007	100.00µL
E2400715-008	100.00µL	EQ2400343-02	100.00µL	EQ2400343-02	100.00µL	EQ2400343-03	100.00µL	EQ2400343-03	100.00µL	EQ2400343-04	100.00µL
EQ2400343-04	100.00µL	EQ2400343-05	100.00µL	EQ2400343-05	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: 6/24/24 10:15
Finished: 6/24/24 11:30
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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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:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10DW-061424	**Units:**	µg/L
Lab Code:	E2400696-001	**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	**1070**		10.0	5.00	2.50	100	6/24/24	6/25/24 13:55	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10DW-061424-a	**Units:**	µg/L
Lab Code:	E2400696-002	**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	**1100**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:00	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0650
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18CPTMW10SW-061424	**Units:**	µg/L
Lab Code:	E2400696-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 14:58	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0820
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW9-061424	**Units:**	µg/L
Lab Code:	E2400696-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**642**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:06	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0900
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW10-061424	**Units:**	µg/L
Lab Code:	E2400696-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:09	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 0945
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	18WW10-061424	**Units:**	µg/L
Lab Code:	E2400696-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:14	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1030
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW17-061424	**Units:**	µg/L
Lab Code:	E2400696-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 15:20	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1115
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	MW16-061424	**Units:**	µg/L
Lab Code:	E2400696-008	**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	**674**		10.0	5.00	2.50	100	6/24/24	6/25/24 14:11	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1200
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	17WW08-061424	**Units:**	µg/L
Lab Code:	E2400696-009	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:17	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	6/14/24 1200
Sample Matrix:	Ground Water	**Date Received:**	6/15/24
Sample Name:	17WW08-061424-a	**Units:**	µg/L
Lab Code:	E2400696-010	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:22	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400343-04	**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	6/24/24	6/24/24 13:40	440489	845501	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Analyzed:**	06/24/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/24/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845501

	Lab Control Sample EQ2400343-02			Duplicate Lab Control Sample EQ2400343-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.110	0.100	110	0.114	0.100	114	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.110**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:46	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400696
Project:	HS24060985	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-03	**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	**0.114**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:57	440489	845501	

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

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

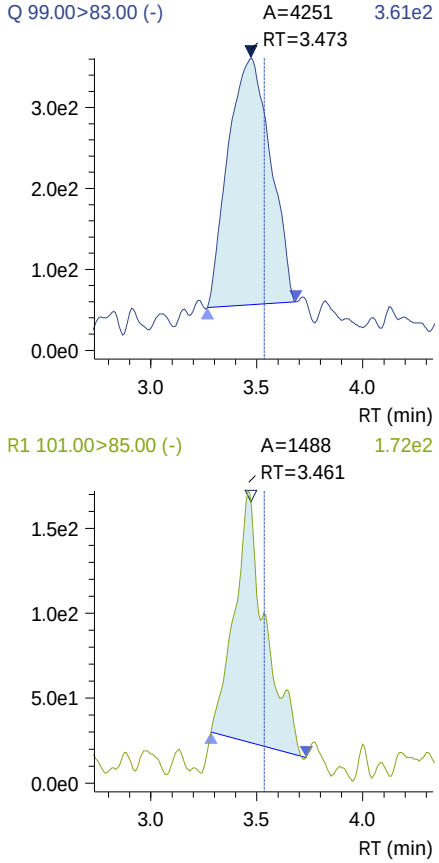
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

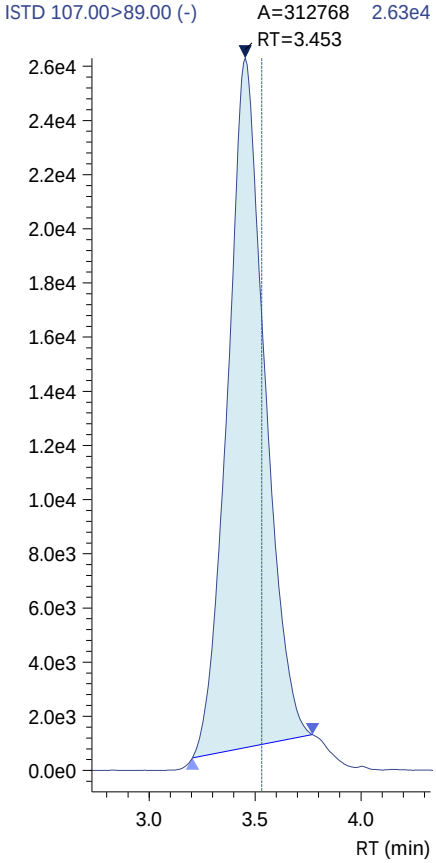
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

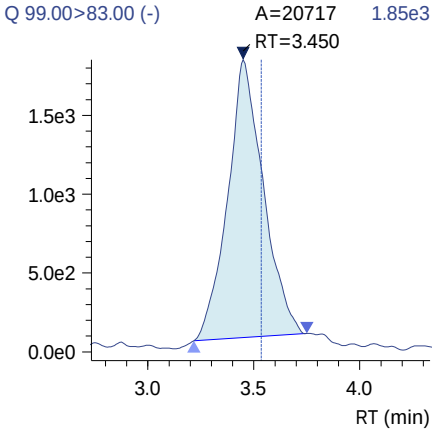
Perchlorate ICAL 2

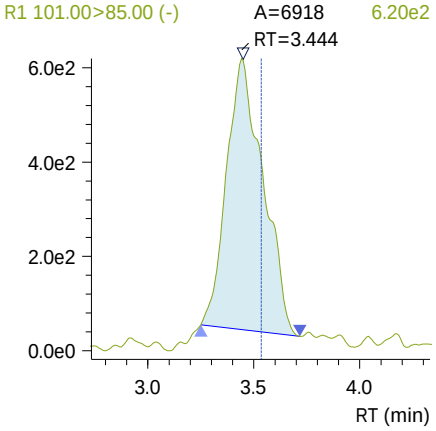
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

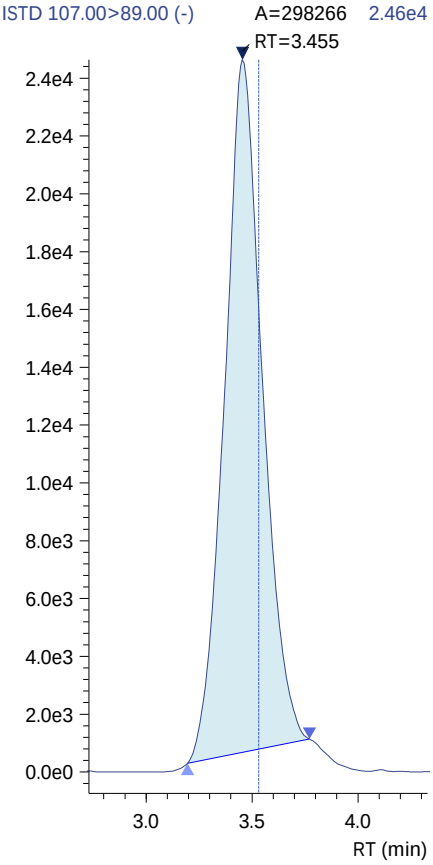
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

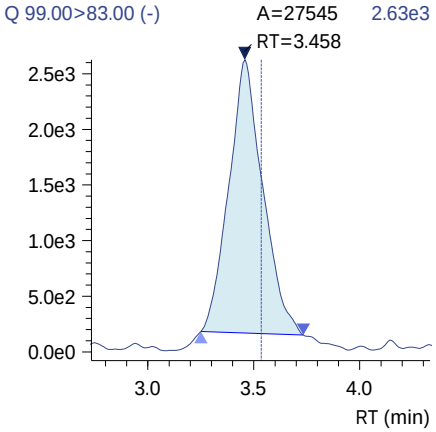
Perchlorate ICAL 3

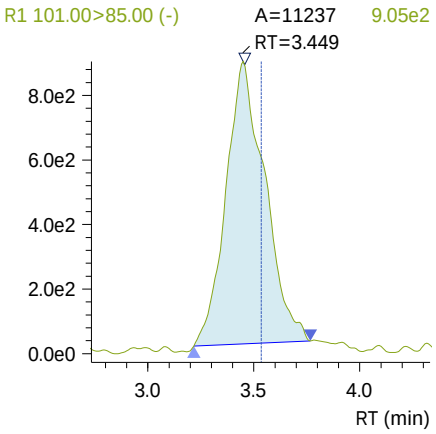
Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

Perchlorate

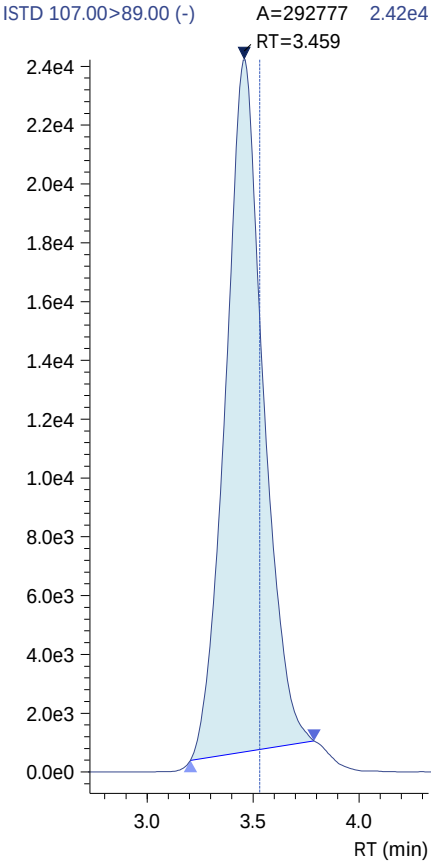
Conc 0.6444
R#1 40.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

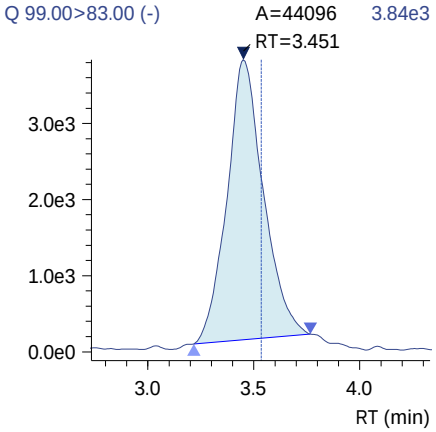
Perchlorate ICAL 4

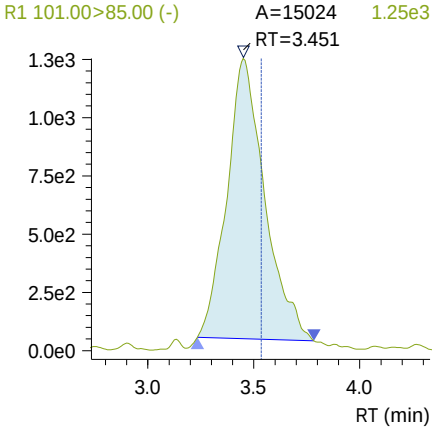
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

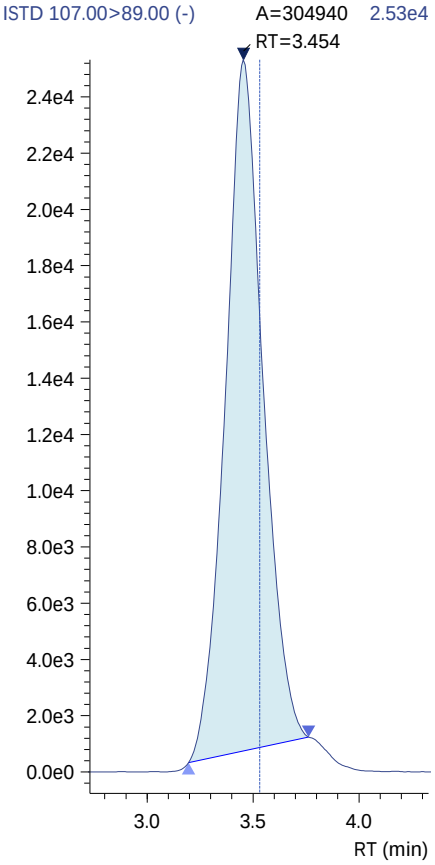
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

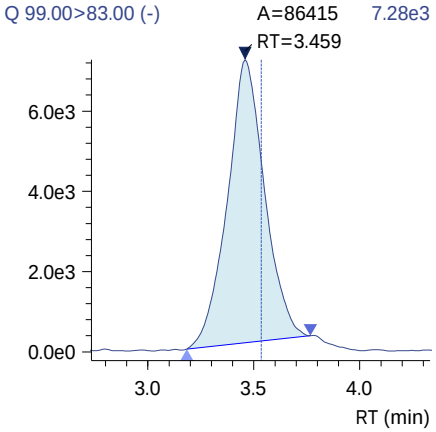
Perchlorate ICAL 5

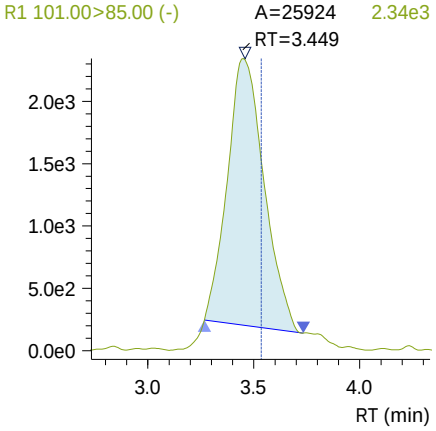
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

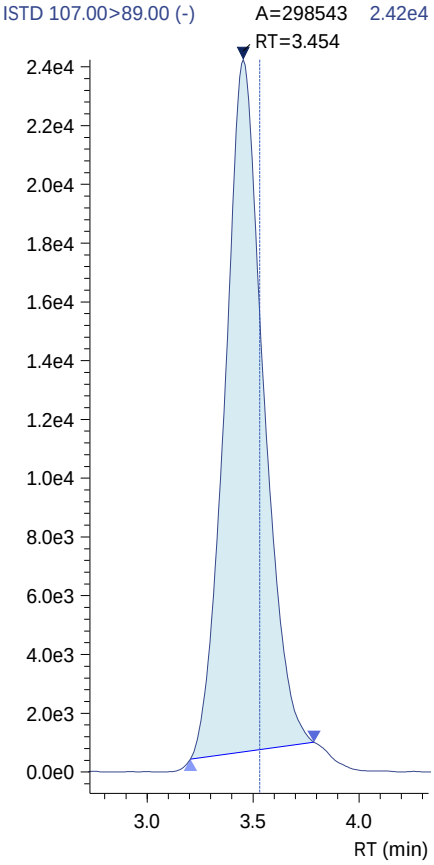
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

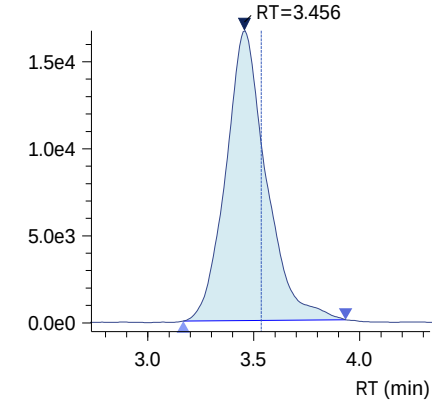
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

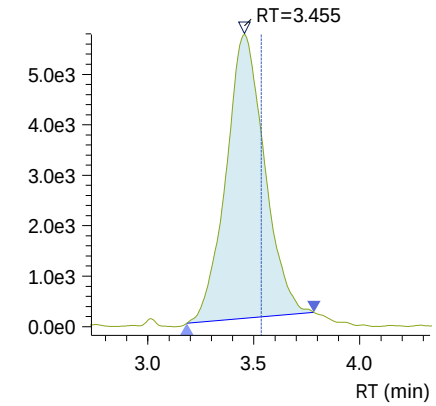
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



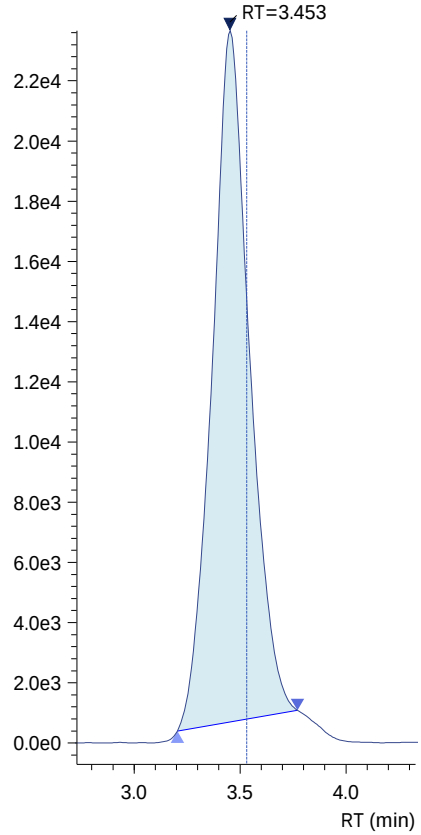
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

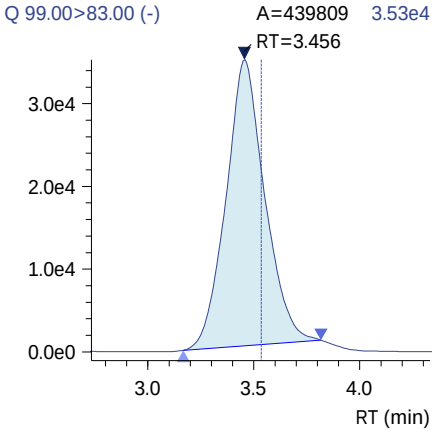
Perchlorate ICAL 7

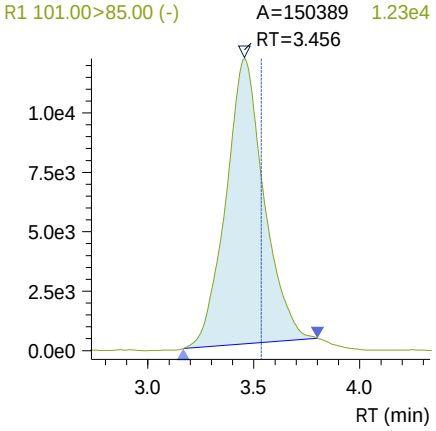
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4 505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

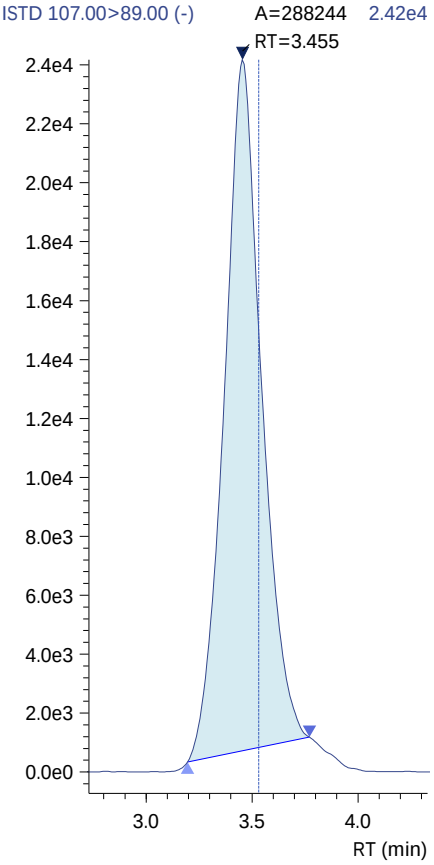
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

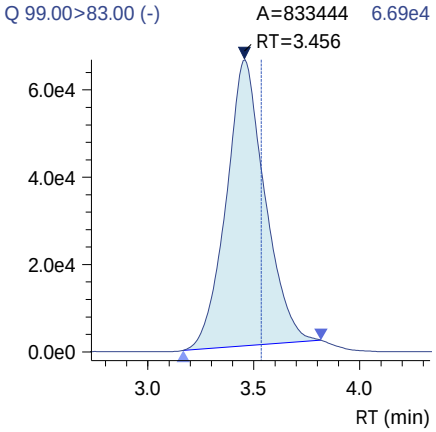
Perchlorate ICAL 8

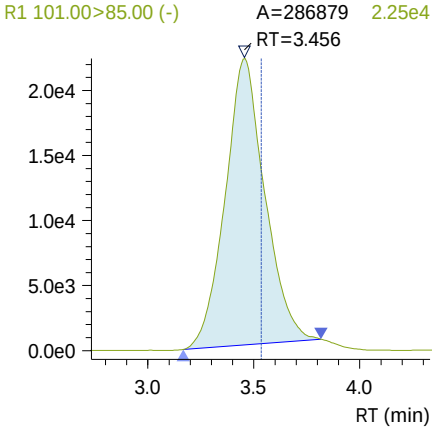
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

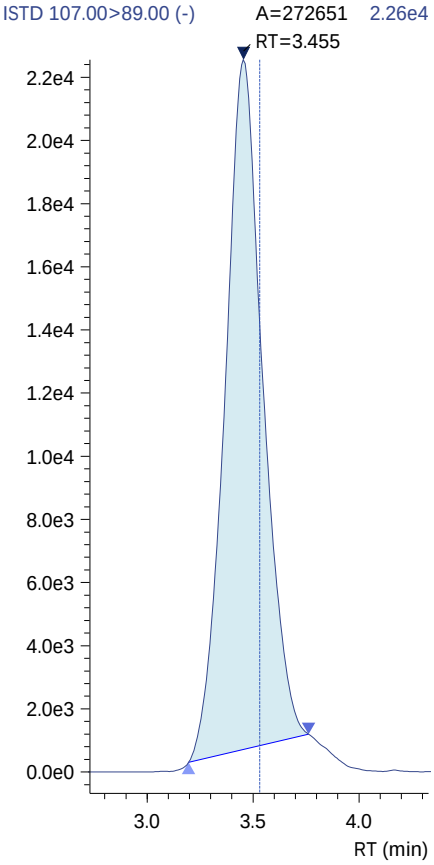
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

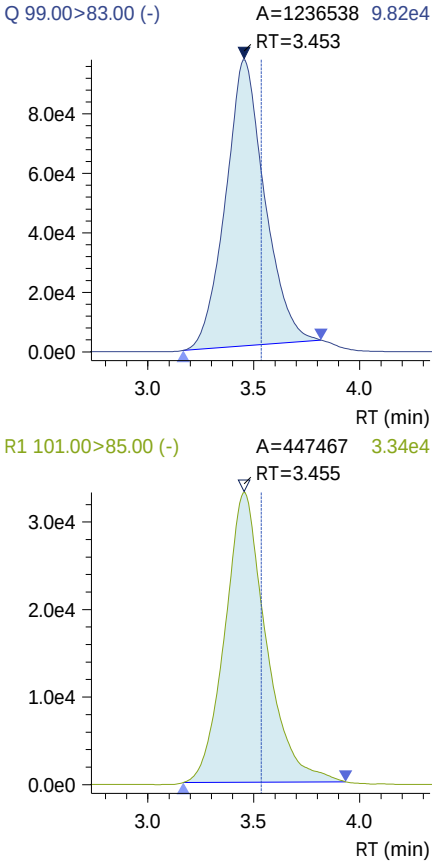
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

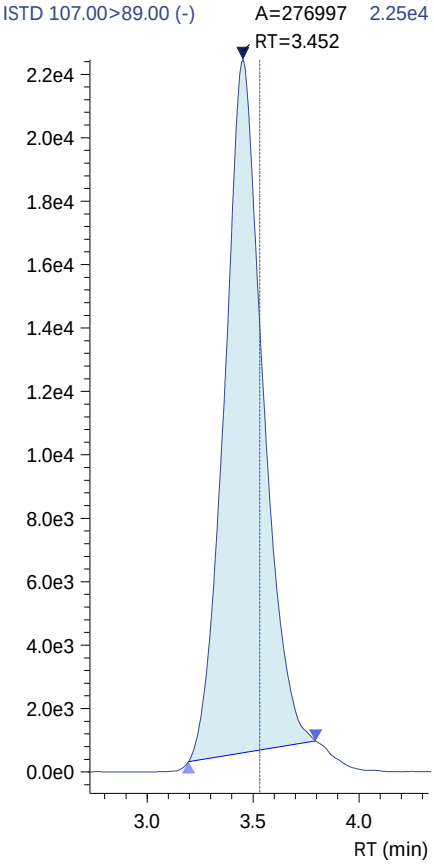
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

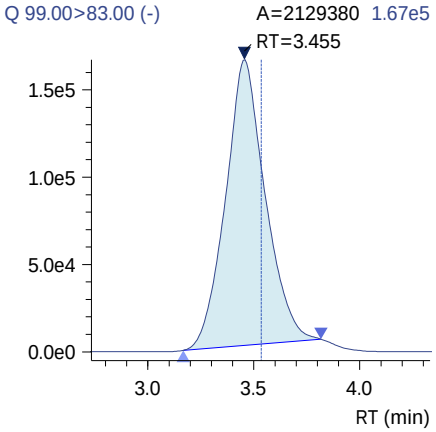
Perchlorate ICAL 10

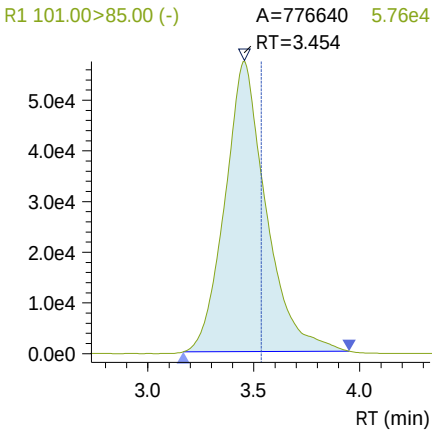
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

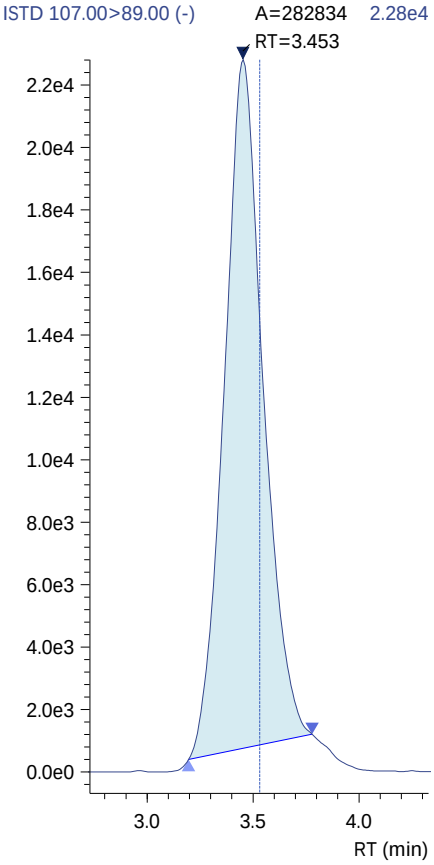
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

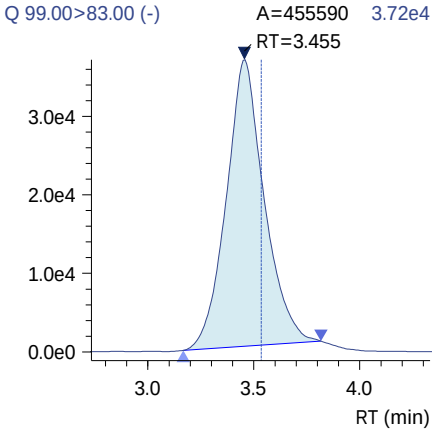
PerchlorateICV

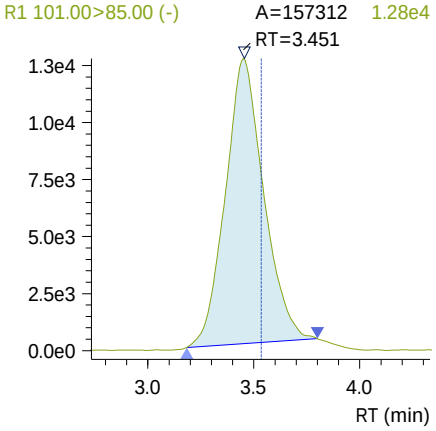
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

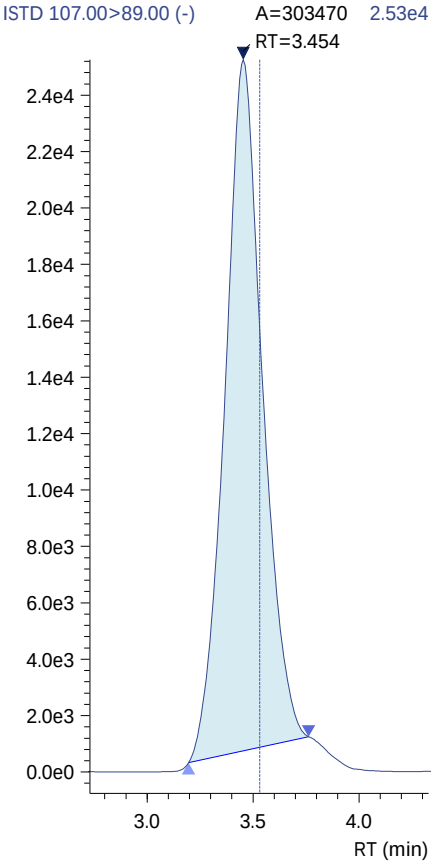
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240624-001	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:53
2	20240624-002	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:58
3	20240624-003	IB	Perchlorate6850c.lcm	1x		6/24/2024 9:04
4	20240624-004	LODV	Perchlorate6850c.lcm	1x		6/24/2024 9:09
5	20240624-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 9:15
6	20240624-006	CCV	Perchlorate6850c.lcm	1x		6/24/2024 9:20
7	20240624-007	IB	Perchlorate6850c.lcm	1x		6/24/2024 10:20
8	20240624-008	EQ2400343-001MB	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:25
9	20240624-009	EQ2400343-02LCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:31
10	20240624-010	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:36
11	20240624-011	EQ2400343-04ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:42
12	20240624-012	E2400685-001X10	Perchlorate6850c.lcm	10x		6/24/2024 10:47
13	20240624-013	E2400685-006X100	Perchlorate6850c.lcm	100x		6/24/2024 10:53
14	20240624-014	E2400685-007X500	Perchlorate6850c.lcm	500x		6/24/2024 10:59
15	20240624-015	E2400691-003X100	Perchlorate6850c.lcm	100x		6/24/2024 11:04
16	20240624-016	E2400691-004X10	Perchlorate6850c.lcm	10x		6/24/2024 11:10
17	20240624-017	CCV	Perchlorate6850c.lcm	1x		6/24/2024 11:15
18	20240624-018	IB	Perchlorate6850c.lcm	1x		6/24/2024 11:21
19	20240624-019	EQ2400343-004MB	Perchlorate6850c.lcm	1x		6/24/2024 13:40
20	20240624-020	EQ2400343-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 13:46
21	20240624-021	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 13:57
22	20240624-022	EQ2400343-05ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:03
23	20240624-023	EQ2400345-001MB	Perchlorate6850c.lcm	1x		6/24/2024 14:08
24	20240624-024	EQ2400345-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 14:14
25	20240624-025	EQ2400345-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 14:19
26	20240624-026	EQ2400345-04ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:25
27	20240624-027	E2400710-001	Perchlorate6850c.lcm	1x		6/24/2024 14:30
28	20240624-028	E2400696-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:36
29	20240624-029	CCV	Perchlorate6850c.lcm	1x		6/24/2024 14:41
30	20240624-030	IB	Perchlorate6850c.lcm	1x		6/24/2024 14:47
31	20240624-031	E2400696-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:52
32	20240624-032	E2400696-003	Perchlorate6850c.lcm	1x		6/24/2024 14:58
33	20240624-033	E2400696-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:03
34	20240624-034	E2400696-005	Perchlorate6850c.lcm	1x		6/24/2024 15:09
35	20240624-035	E2400696-006	Perchlorate6850c.lcm	1x		6/24/2024 15:14
36	20240624-036	E2400696-007	Perchlorate6850c.lcm	1x		6/24/2024 15:20
37	20240624-037	E2400696-008	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:25
38	20240624-038	E2400696-009	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:31
39	20240624-039	E2400696-010	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:36
40	20240624-040	E2400715-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:42
41	20240624-041	CCV	Perchlorate6850c.lcm	1x		6/24/2024 15:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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
42	20240624-042	IB	Perchlorate6850c.lcm	1x		6/24/2024 15:53
43	20240624-043	E2400715-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:59
44	20240624-044	E2400715-003	Perchlorate6850c.lcm	1x		6/24/2024 16:04
45	20240624-045	E2400715-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:10
46	20240624-046	E2400715-005	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:15
47	20240624-047	E2400715-006	Perchlorate6850c.lcm	1x		6/24/2024 16:21
48	20240624-048	E2400715-007	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:26
49	20240624-049	E2400715-008	Perchlorate6850c.lcm	1x		6/24/2024 16:32
50	20240624-050	E2400716-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:37
51	20240624-051	E2400716-002	Perchlorate6850c.lcm	1x		6/24/2024 16:43
52	20240624-052	E2400716-003	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:48
53	20240624-053	CCV	Perchlorate6850c.lcm	1x		6/24/2024 16:54
54	20240624-054	IB	Perchlorate6850c.lcm	1x		6/24/2024 16:59
55	20240624-055	E2400716-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 17:05
56	20240624-056	E2400716-005	Perchlorate6850c.lcm	1x		6/24/2024 17:11
57	20240624-057	E2400716-006	Perchlorate6850c.lcm	1x		6/24/2024 17:16
58	20240624-058	E2400716-007	Perchlorate6850c.lcm	1x		6/24/2024 17:22
59	20240624-059	E2400716-008	Perchlorate6850c.lcm	1x		6/24/2024 17:27
60	20240624-060	E2400716-009	Perchlorate6850c.lcm	1x		6/24/2024 17:33
61	20240624-061	E2400716-010	Perchlorate6850c.lcm	1x		6/24/2024 17:38
62	20240624-062	EQ2400345-05MS	Perchlorate6850c.lcm	1x		6/24/2024 17:44
63	20240624-063	EQ2400345-06DMS	Perchlorate6850c.lcm	1x		6/24/2024 17:49
64	20240624-064	E2400721-001	Perchlorate6850c.lcm	1x		6/24/2024 17:55
65	20240624-065	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:00
66	20240624-066	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:06
67	20240624-067	E2400721-002	Perchlorate6850c.lcm	1x		6/24/2024 18:11
68	20240624-068	E2400721-003	Perchlorate6850c.lcm	1x		6/24/2024 18:17
69	20240624-069	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:22
70	20240624-070	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:28

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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	20240625-001	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:21
2	20240625-002	LODV	Perchlorate6850c.lcm	1x		6/25/2024 13:27
3	20240625-003	ICS	Perchlorate6850c.lcm	1x	DNU	6/25/2024 13:33
4	20240625-004	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:38
5	20240625-005	CCV	Perchlorate6850c.lcm	1x		6/25/2024 13:44
6	20240625-006	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:49
7	20240625-007	E2400696-001X100	Perchlorate6850c.lcm	100x		6/25/2024 13:55
8	20240625-008	E2400696-002X100	Perchlorate6850c.lcm	100x		6/25/2024 14:00
9	20240625-009	E2400696-004X100	Perchlorate6850c.lcm	100x		6/25/2024 14:06
10	20240625-010	E2400696-008X100	Perchlorate6850c.lcm	100x		6/25/2024 14:11
11	20240625-011	E2400696-009X10	Perchlorate6850c.lcm	10x		6/25/2024 14:17
12	20240625-012	E2400696-010X10	Perchlorate6850c.lcm	10x		6/25/2024 14:22
13	20240625-013	E2400715-001X10000	Perchlorate6850c.lcm	10000x		6/25/2024 14:28
14	20240625-014	E2400715-002X10	Perchlorate6850c.lcm	10x		6/25/2024 14:33
15	20240625-015	E2400715-004X10	Perchlorate6850c.lcm	10x		6/25/2024 14:39
16	20240625-016	E2400715-005X10	Perchlorate6850c.lcm	10x		6/25/2024 14:45
17	20240625-017	CCV	Perchlorate6850c.lcm	1x		6/25/2024 14:50
18	20240625-018	IB	Perchlorate6850c.lcm	1x		6/25/2024 14:56
19	20240625-019	E2400715-007X10	Perchlorate6850c.lcm	10x		6/25/2024 15:01
20	20240625-020	E2400716-001x1000	Perchlorate6850c.lcm	1000x		6/25/2024 15:07
21	20240625-021	E2400716-003x10	Perchlorate6850c.lcm	10x		6/25/2024 15:12
22	20240625-022	E2400716-004x10	Perchlorate6850c.lcm	10x		6/25/2024 15:18
23	20240625-023	EQ2400350-01MB	Perchlorate6850c.lcm	1x		6/25/2024 15:23
24	20240625-024	EQ2400350-02LCS	Perchlorate6850c.lcm	1x		6/25/2024 15:29
25	20240625-025	EQ2400350-03DLCS	Perchlorate6850c.lcm	1x		6/25/2024 15:34
26	20240625-026	EQ2400350-04ICS	Perchlorate6850c.lcm	1x		6/25/2024 15:40
27	20240625-027	CCV	Perchlorate6850c.lcm	1x		6/25/2024 15:46
28	20240625-028	IB	Perchlorate6850c.lcm	1x		6/25/2024 15:51
29	20240625-029	E2400703-002	Perchlorate6850c.lcm	1x		6/25/2024 15:57
30	20240625-030	E2400703-003	Perchlorate6850c.lcm	1x		6/25/2024 16:02
31	20240625-031	E2400703-001	Perchlorate6850c.lcm	1x		6/25/2024 16:08
32	20240625-032	E2400350-05MS	Perchlorate6850c.lcm	1x	DNU	6/25/2024 16:13
33	20240625-033	E2400350-06DMS	Perchlorate6850c.lcm	1x		6/25/2024 16:19
34	20240625-034	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:24
35	20240625-035	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:30
36	20240625-036	CCV	Perchlorate6850c.lcm	1x		6/25/2024 16:35
37	20240625-037	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:41

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060985

Service Request: E2400696
Date Analyzed: 6/24/24 11:15

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-01
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-01	223,642	3.45
Method Blank	EQ2400343-04	178,733	3.45
Lab Control Sample	EQ2400343-02	176,626	3.44
Duplicate Lab Control Sample	EQ2400343-03	184,981	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/24/24 14:41

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-029
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-02
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-02	169,981	3.44
18CPTMW10SW-061424	E2400696-003	179,741	3.43
MW10-061424	E2400696-005	209,702	3.45
18WW10-061424	E2400696-006	196,394	3.43
MW17-061424	E2400696-007	149,752	3.43

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/24/24 15:47

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-041
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-03
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-03	160,199	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/24/24 16:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-053
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-04
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-04	158,767	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24 13:44

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240625\20240625-005
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-01
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-01	212,258	3.44
18CPTMW10DW-061424	E2400696-001	199,802	3.44
18CPTMW10DW-061424-a	E2400696-002	199,406	3.44
MW9-061424	E2400696-004	196,051	3.44
MW16-061424	E2400696-008	205,700	3.44
17WW08-061424	E2400696-009	232,784	3.44
17WW08-061424-a	E2400696-010	225,422	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24 14:50

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240625\20240625-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-02
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-02	203,781	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24 15:46

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240625\20240625-027
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-03
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-03	218,182	3.44

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: HS24060985

Service Request: E2400696
Date Analyzed: 6/24/24

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\20240624\20240624-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845501
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.91	0.1460	0.1447	-0.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24

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\20240625\20240625-005

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.78	0.1460	0.1427	-2.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24

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\20240625\20240625-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1480	1.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060985

Service Request: E2400696
Date Analyzed: 6/25/24

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\20240625\20240625-027

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.79	0.1460	0.1430	-2.1	NA	± 15 %	Average RF

Insight Report

Printed at 6/26/2024 11:57:40 AM

Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

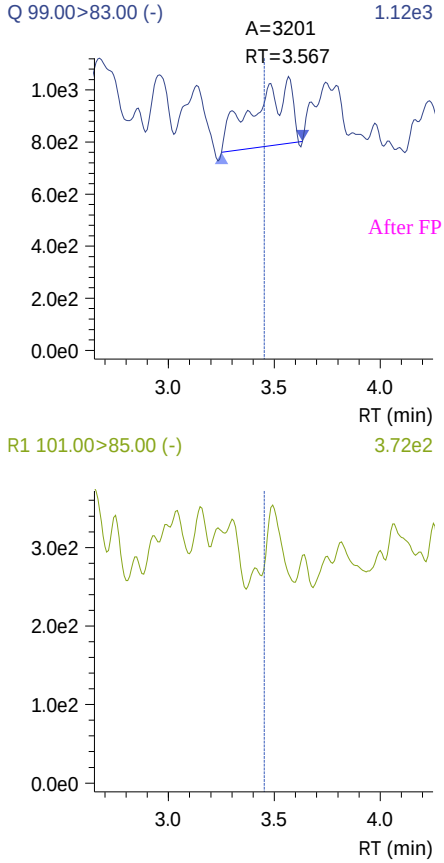
IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.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	----	----	182988	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.457	182988	182988	1.0000	ng/mL	----	----	

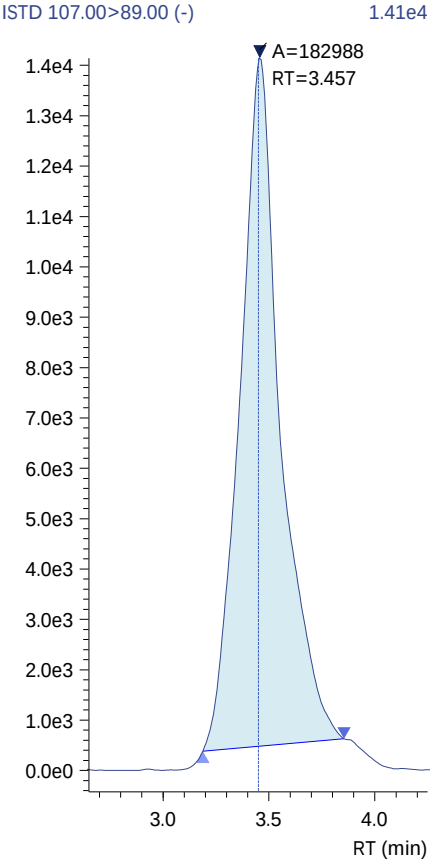
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

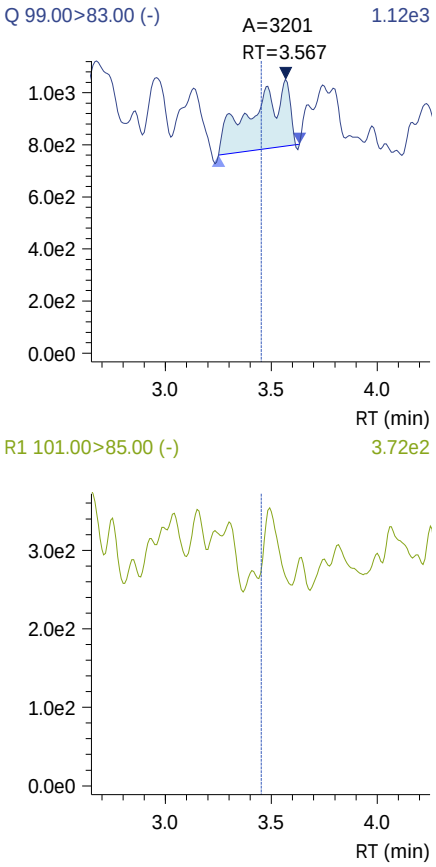
Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

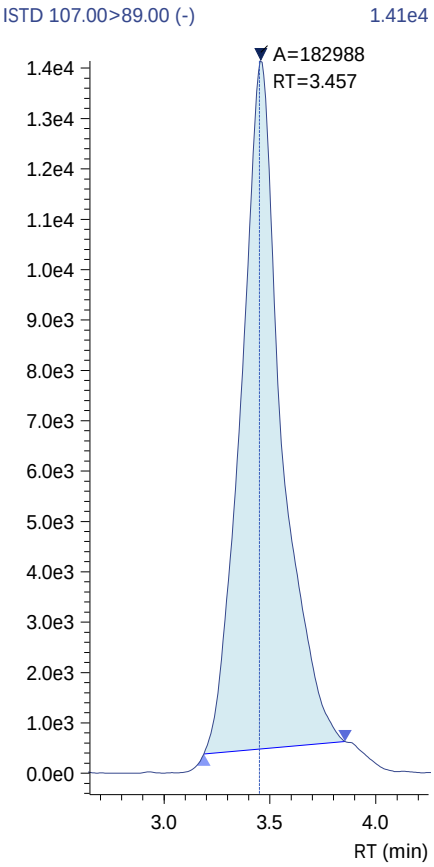
Perchlorate

Conc 0.1198
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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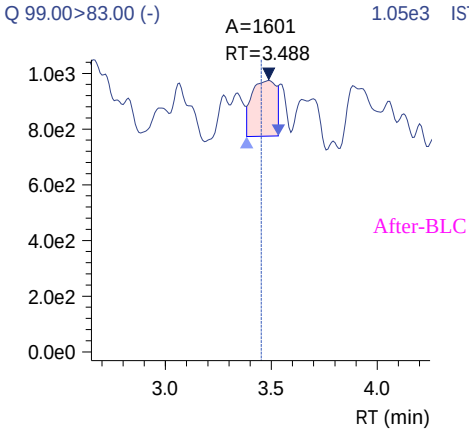
LODV

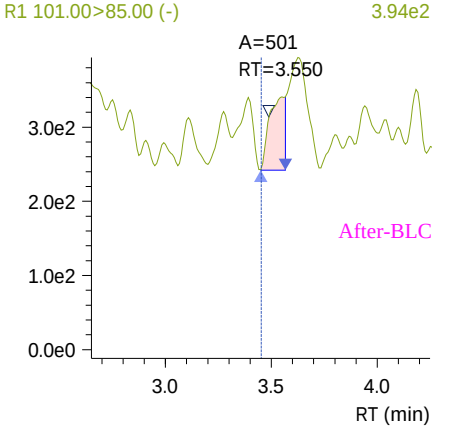
Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.488	1601	198442	0.0552	ng/mL	101.00 >85.00	31.30	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.453	198442	198442	1.0000	ng/mL	----	----	

Perchlorate

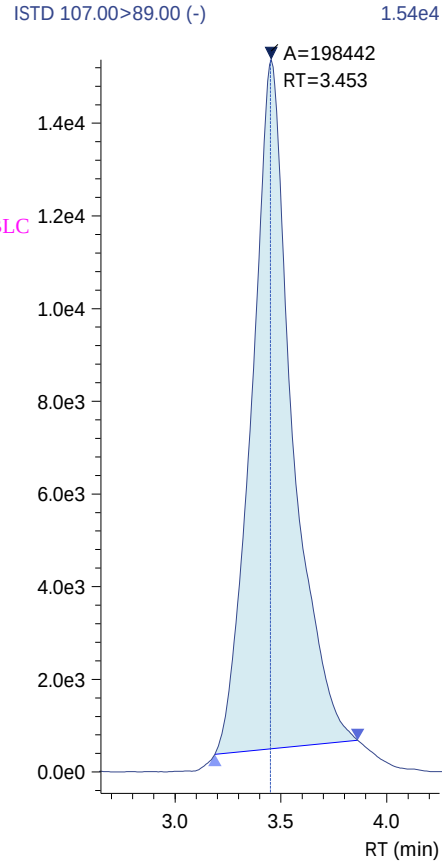
Conc 0.0552
R#1 31.30 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

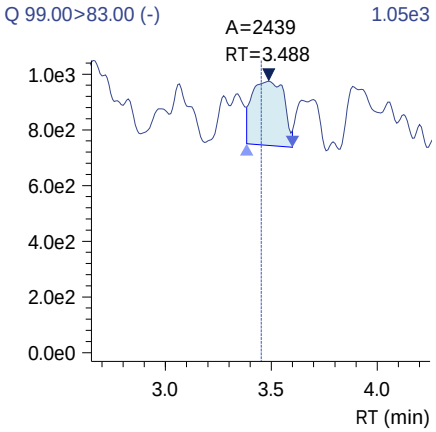
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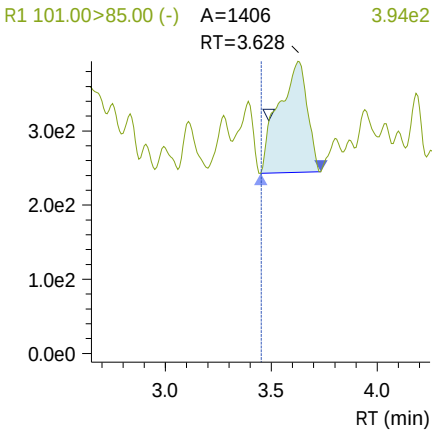
LODV

Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

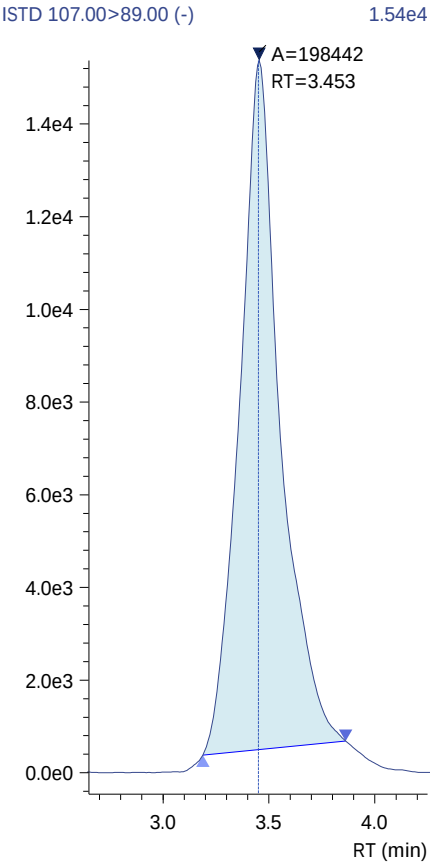
Conc 0.0842
R#1 57.62 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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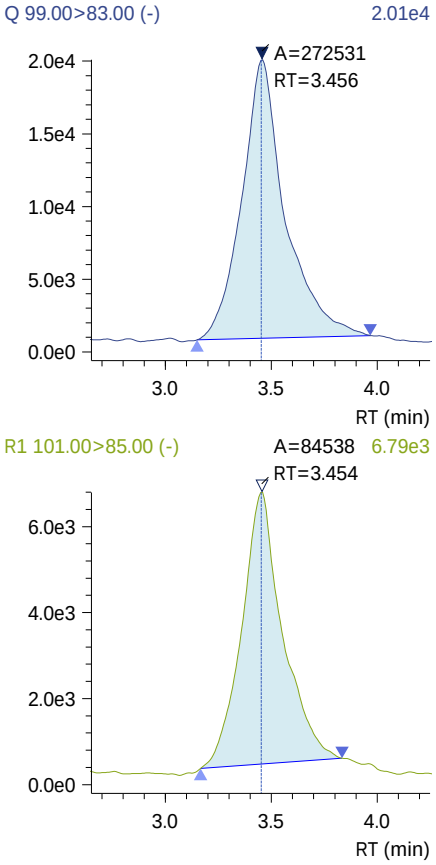
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.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	3.456	272531	198308	9.4126	ng/mL	101.00 >85.00	31.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.453	198308	198308	1.0000	ng/mL	----	----	

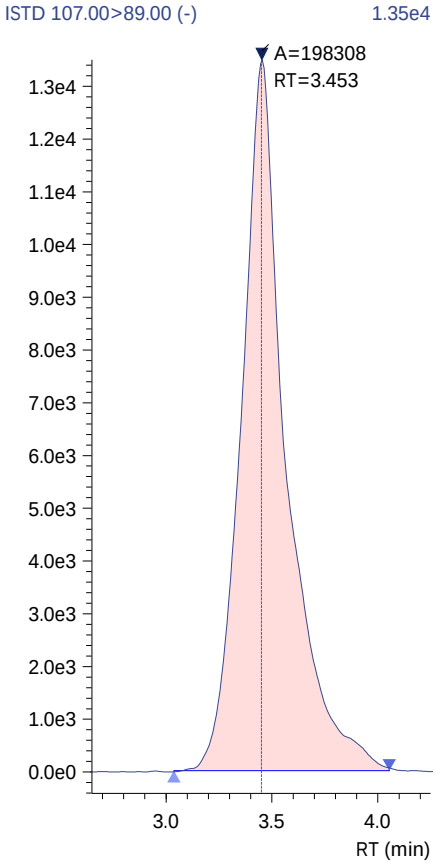
Perchlorate

Conc 9.4126
R#1 31.02 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

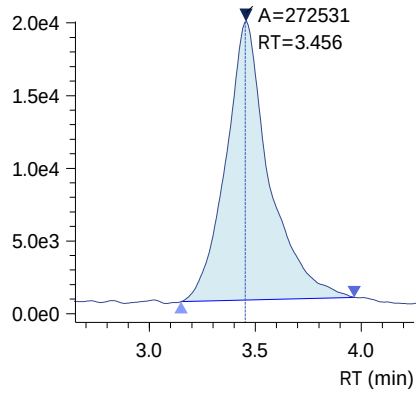
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

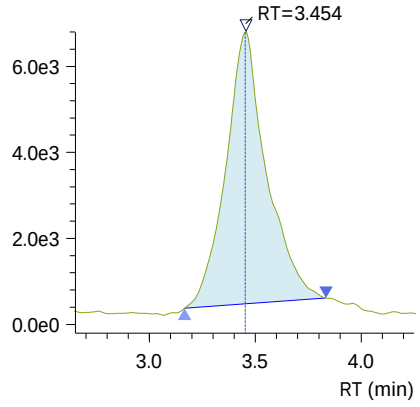
Perchlorate

Conc 10.6506
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



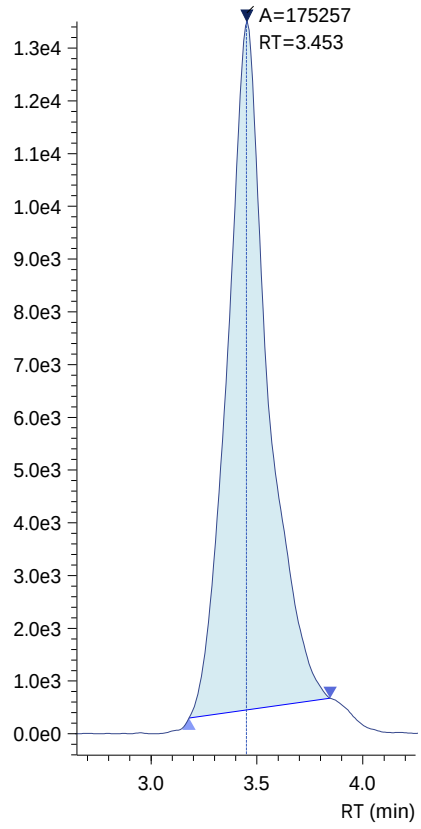
R1 101.00>85.00 (-) A=84538 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

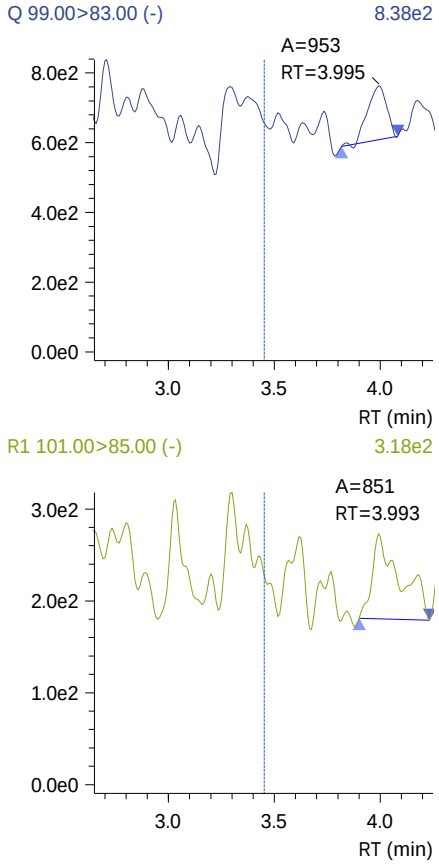
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.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)	----	----	227162	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.453	227162	227162	1.0000	ng/mL	----	----	

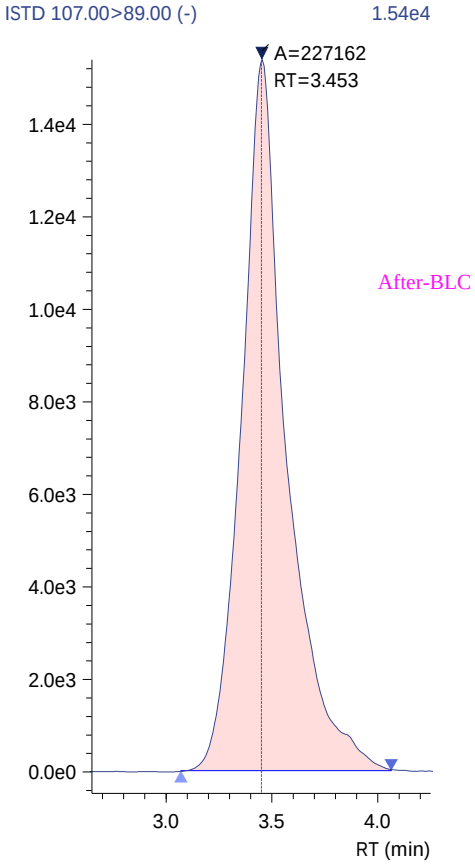
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

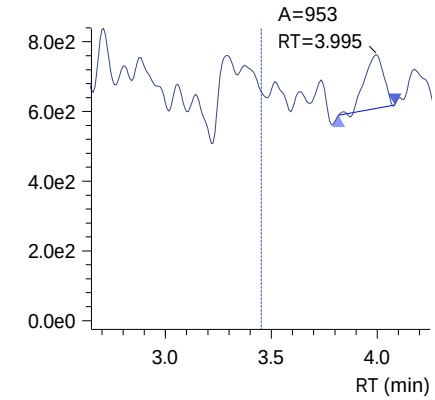
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

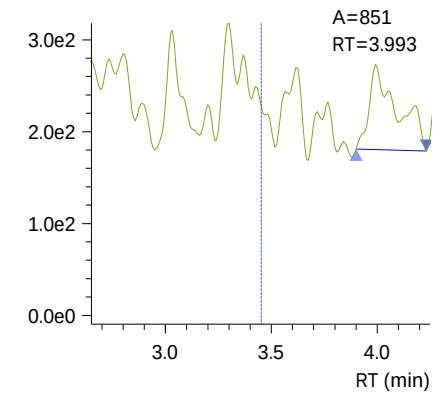
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



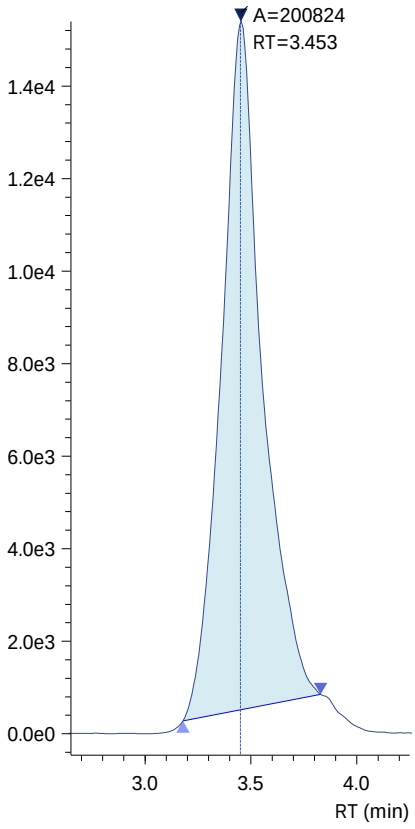
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

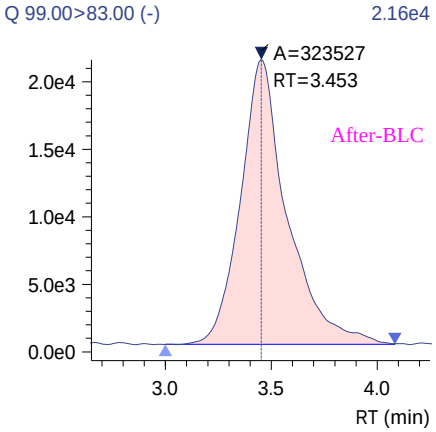
CCV

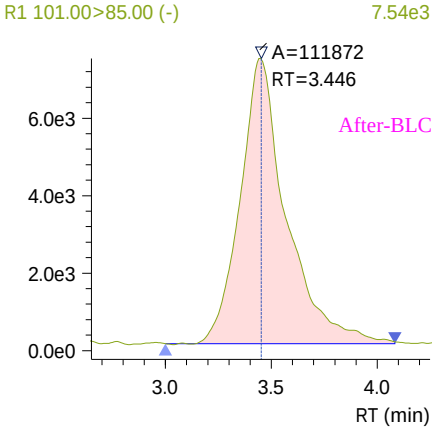
Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	323527	223642	9.9081	ng/mL	101.00 >85.00	34.58	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.449	223642	223642	1.0000	ng/mL	----	----	

Perchlorate

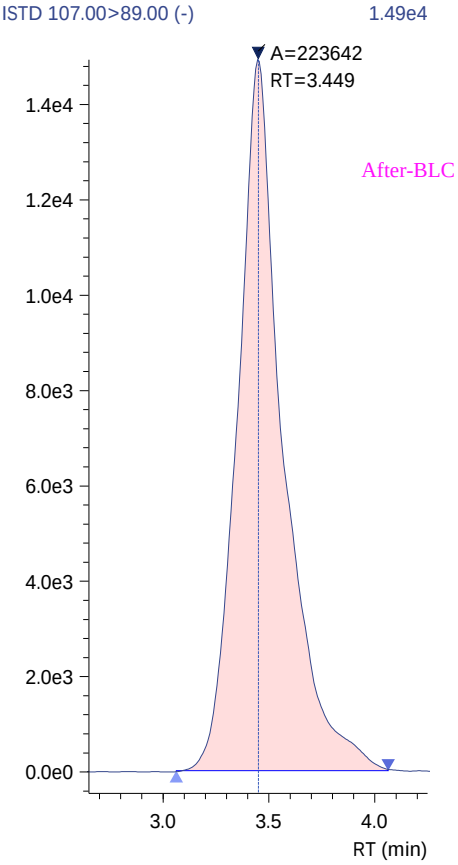
Conc 9.9081
R#1 34.58 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

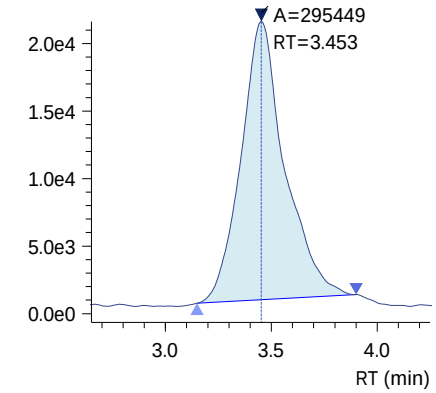
CCV

Sample ID: CCV
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

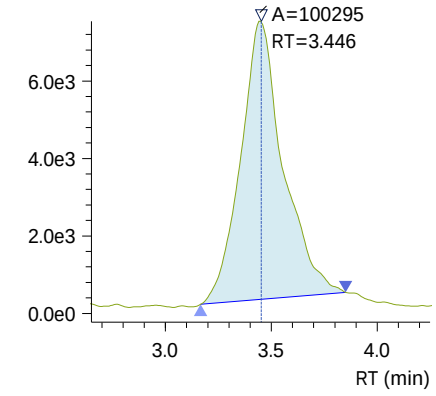
Perchlorate

Conc 10.2540
R#1 33.95 (35.24)

Q 99.00>83.00 (-) 2.16e4



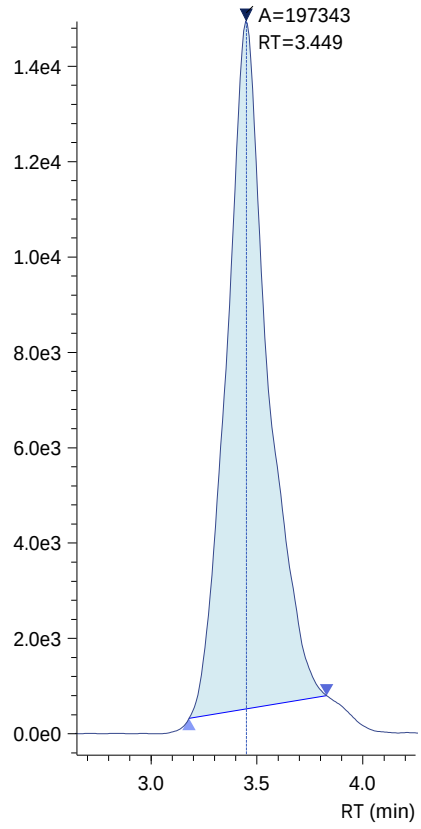
R1 101.00>85.00 (-) 7.54e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

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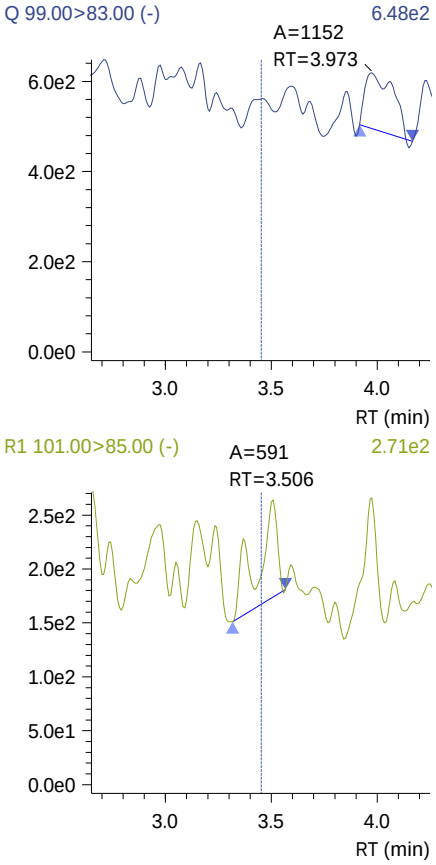
IB

Sample ID: IB
Date Acquired: 6/24/2024 11:21:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-018.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)	----	----	201405	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	Auto	3.447	201405	201405	1.0000	ng/mL	----	----	

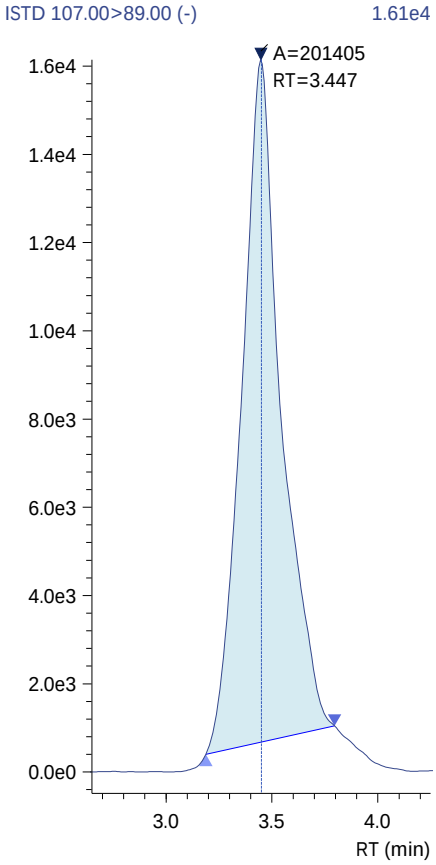
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

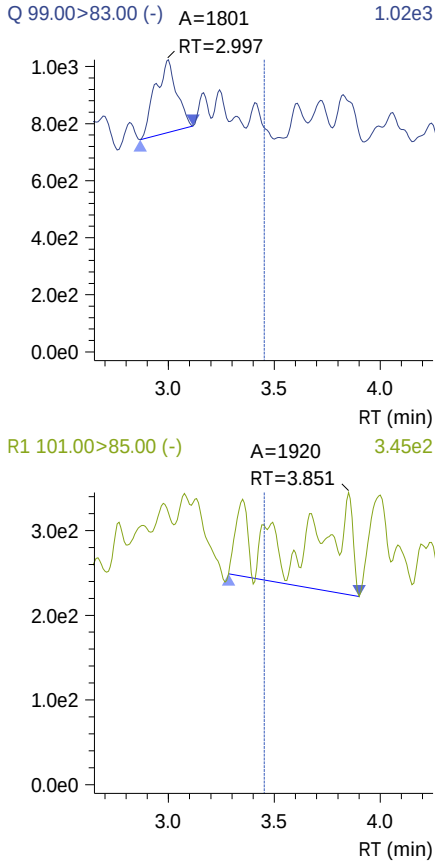
EQ2400343-004MB

Sample ID: EQ2400343-004MB
Date Acquired: 6/24/2024 1:40:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-019.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	178733	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.445	178733	178733	1.0000	ng/mL	----	----	

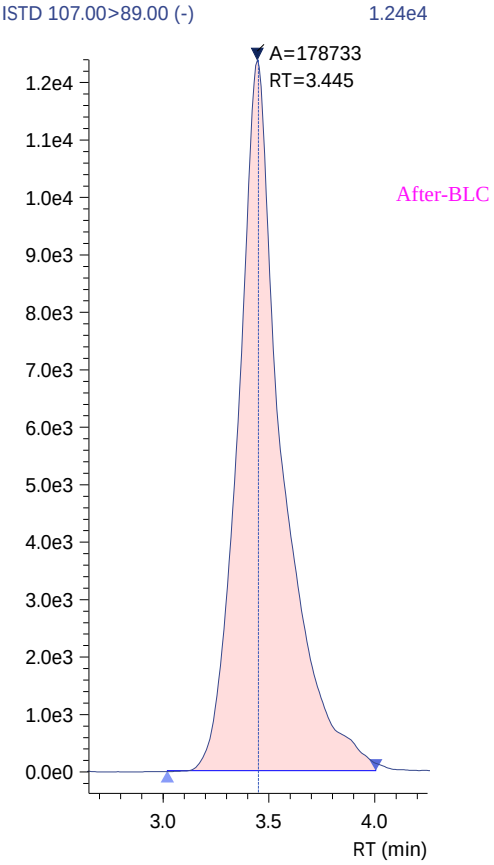
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

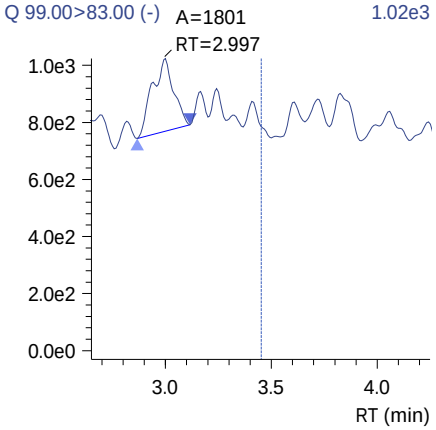
Printed at 6/26/2024 11:58:29 AM

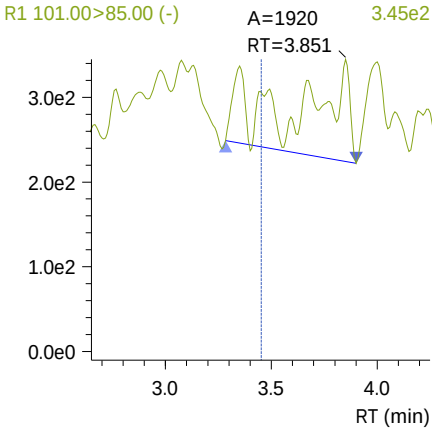
EQ2400343-004MB

Sample ID: EQ2400343-004MB
Date Acquired: 6/24/2024 1:40:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-019.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 5

Perchlorate

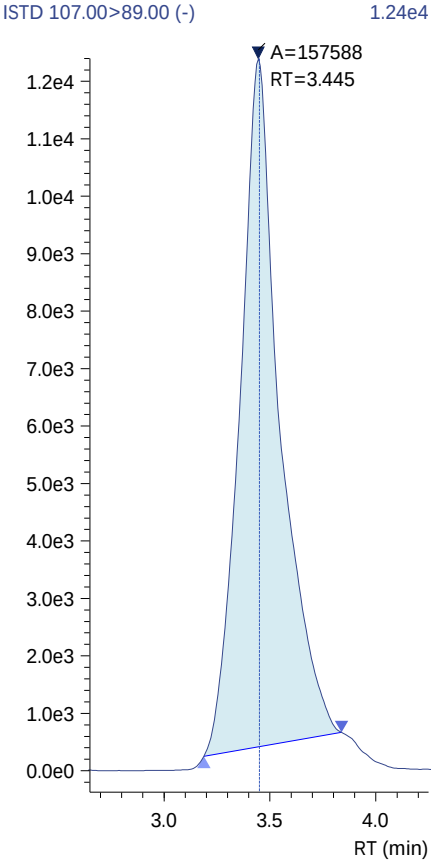
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

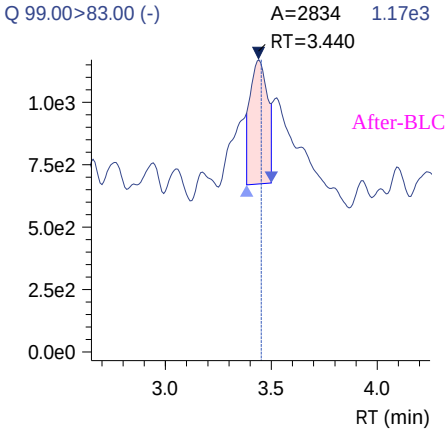
EQ2400343-02LCS

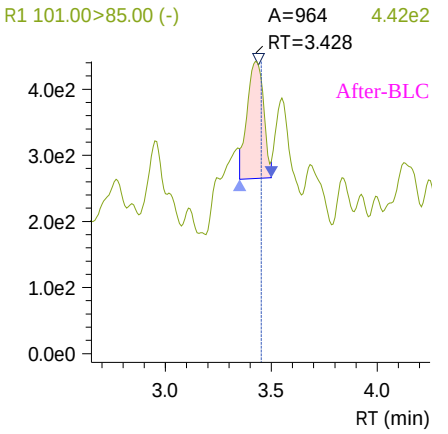
Sample ID: EQ2400343-02LCS
Date Acquired: 6/24/2024 1:46:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-020.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	2834	176626	0.1099	ng/mL	101.00 >85.00	34.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.443	176626	176626	1.0000	ng/mL	----	----	

Perchlorate

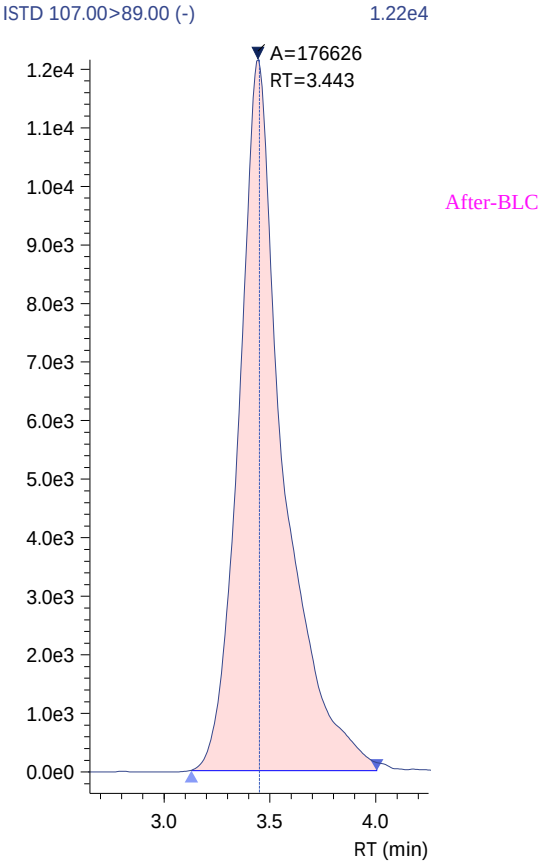
Conc 0.1099
R#1 34.02 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

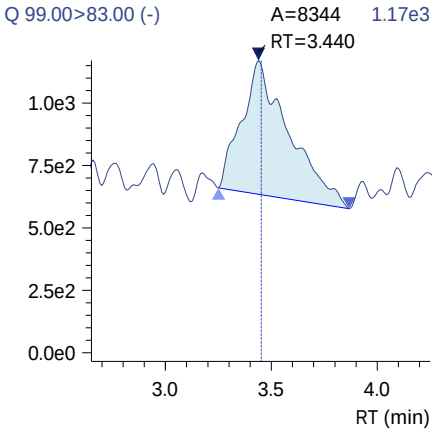
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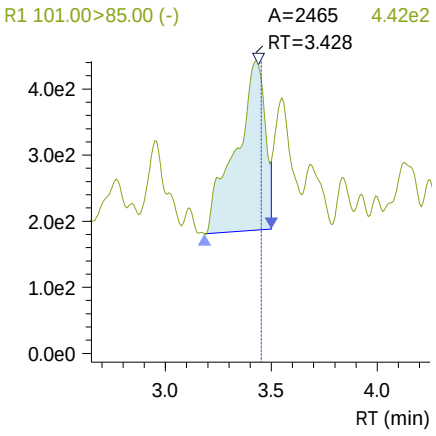
EQ2400343-02LCS

Sample ID: EQ2400343-02LCS
Date Acquired: 6/24/2024 1:46:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-020.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 5

Perchlorate

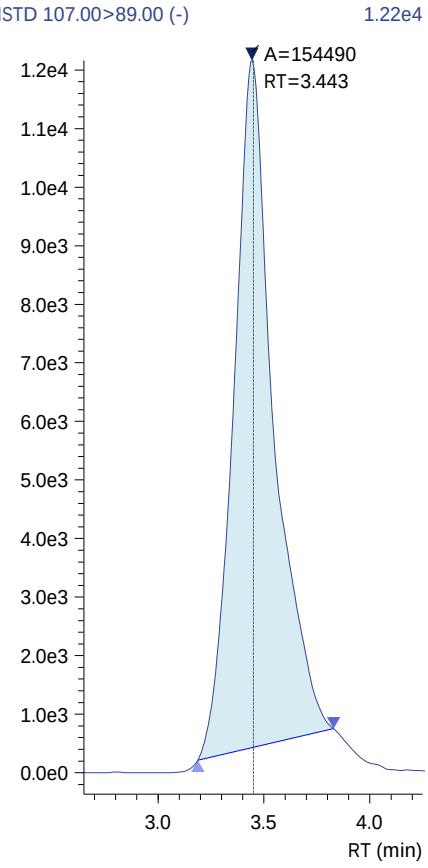
Conc 0.3699
R#1 29.54 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

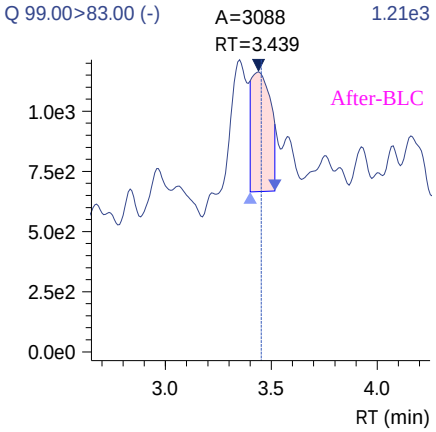
EQ2400343-03DLCS

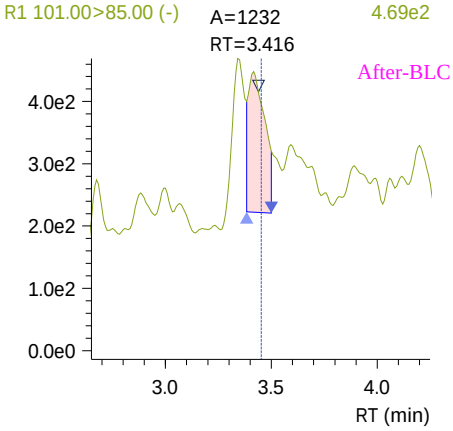
Sample ID: EQ2400343-03DLCS
Date Acquired: 6/24/2024 1:57:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-021.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.439	3088	184981	0.1143	ng/mL	101.00 >85.00	39.89	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.444	184981	184981	1.0000	ng/mL	----	----	

Perchlorate

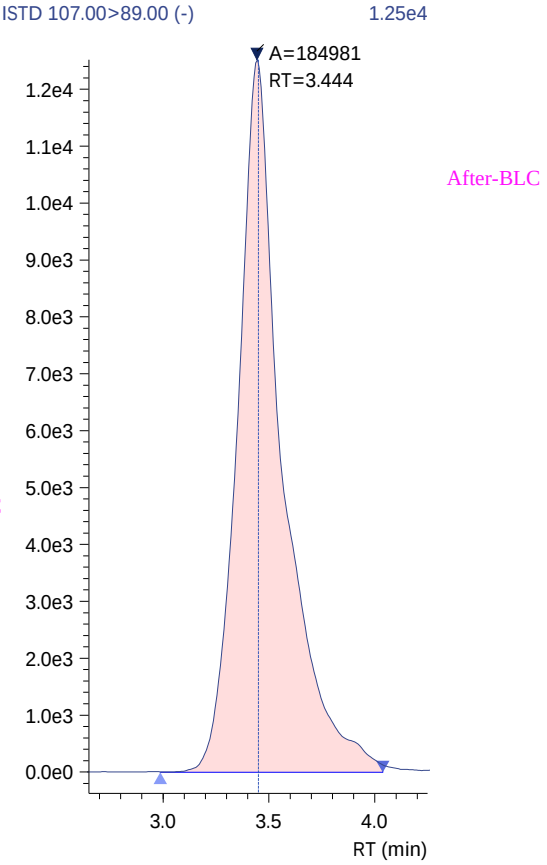
Conc 0.1143
R#1 39.89 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

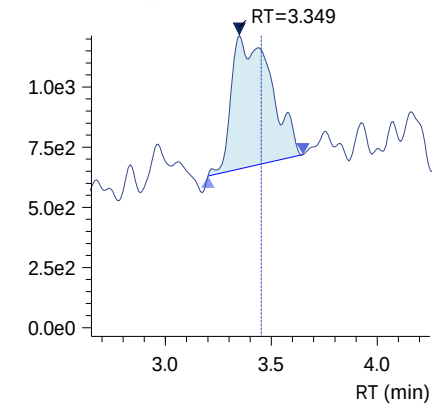
EQ2400343-03DLCS

Sample ID: EQ2400343-03DLCS
Date Acquired: 6/24/2024 1:57:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-021.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 5

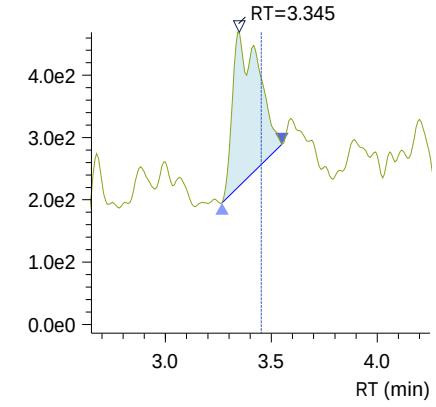
Perchlorate

Conc 0.2955
R#1 29.56 (35.24)

Q 99.00>83.00 (-) A=7053 1.21e3



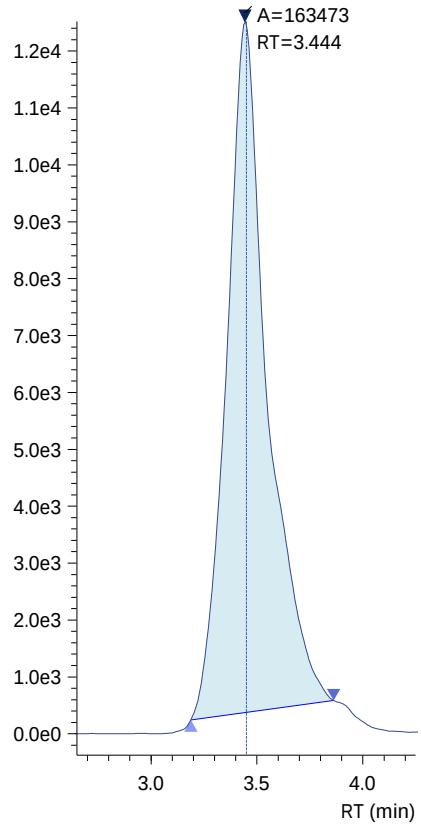
R1 101.00>85.00 (-) A=2085 4.69e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.25e4



Insight Report

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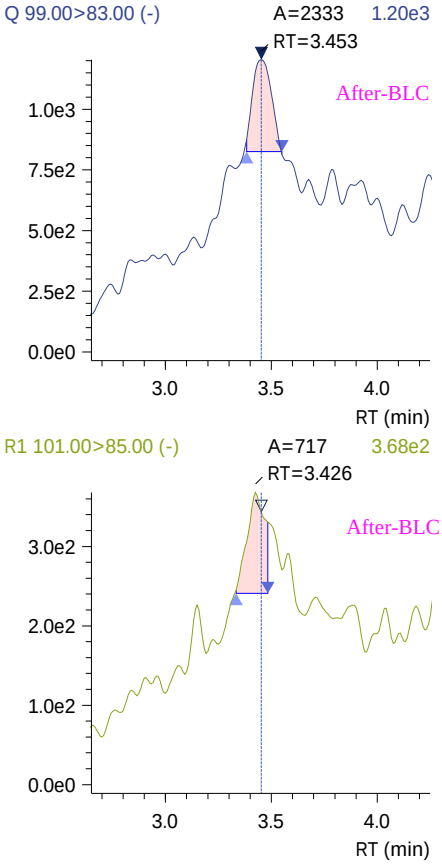
EQ2400343-05ICS

Sample ID: EQ2400343-05ICS
Date Acquired: 6/24/2024 2:03:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-022.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	2333	145829	0.1095	ng/mL	101.00 >85.00	30.74	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.443	145829	145829	1.0000	ng/mL	----	----	

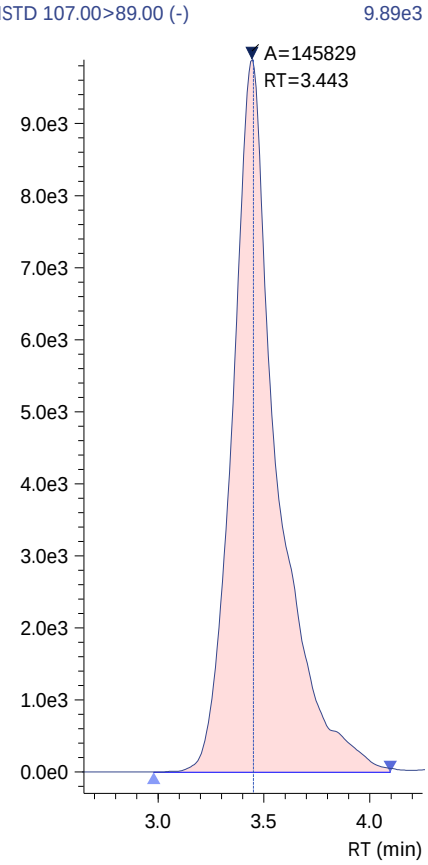
Perchlorate

Conc 0.1095
R#1 30.74 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

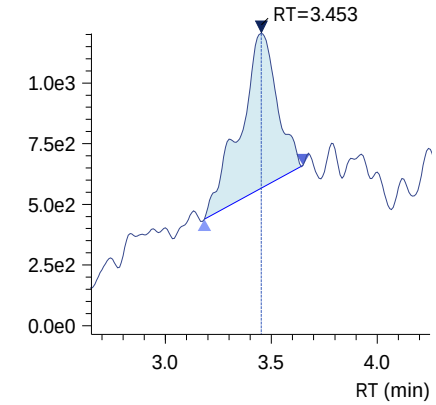
EQ2400343-05ICS

Sample ID: EQ2400343-05ICS
Date Acquired: 6/24/2024 2:03:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-022.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

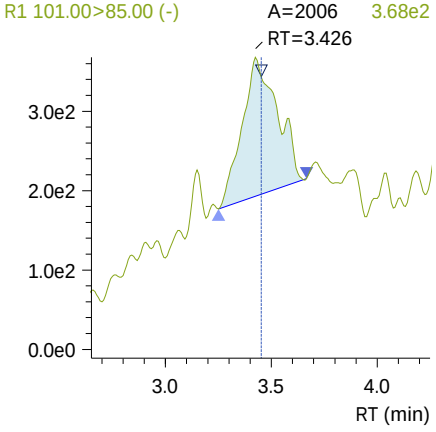
Perchlorate

Conc 0.4178
R#1 25.93 (35.24)

Q 99.00>83.00 (-) A=7735 1.20e3



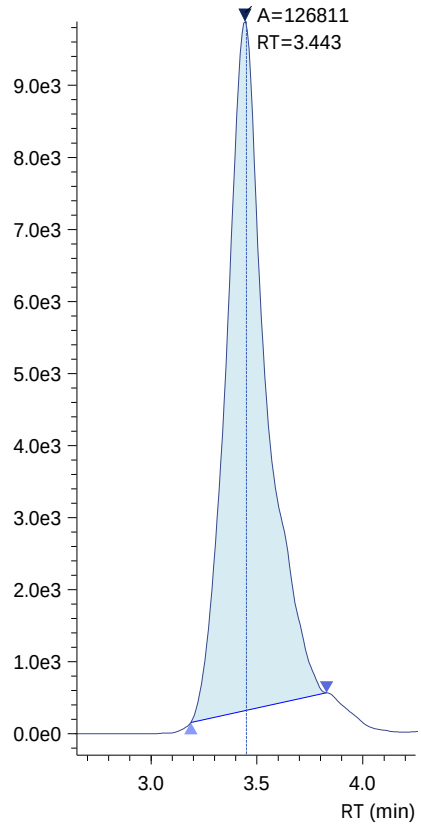
R1 101.00>85.00 (-) A=2006 3.68e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.89e3



Insight Report

Printed at 6/26/2024 11:57:40 AM

CCV

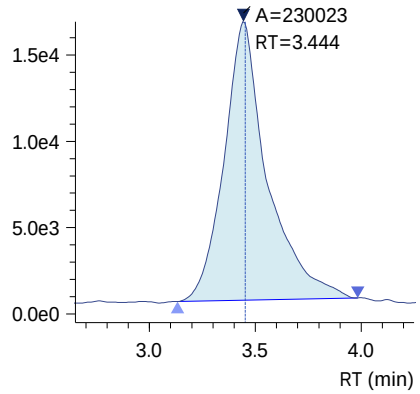
Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.444	230023	169981	9.2683	ng/mL	101.00 >85.00	32.22	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.438	169981	169981	1.0000	ng/mL	----	----	

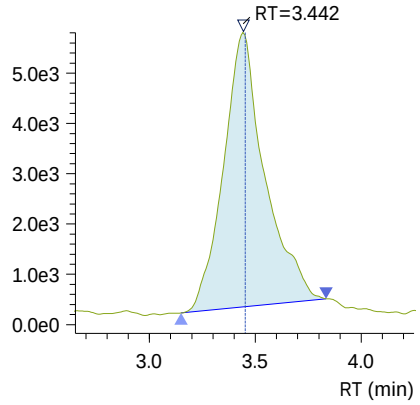
Perchlorate

Conc 9.2683
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



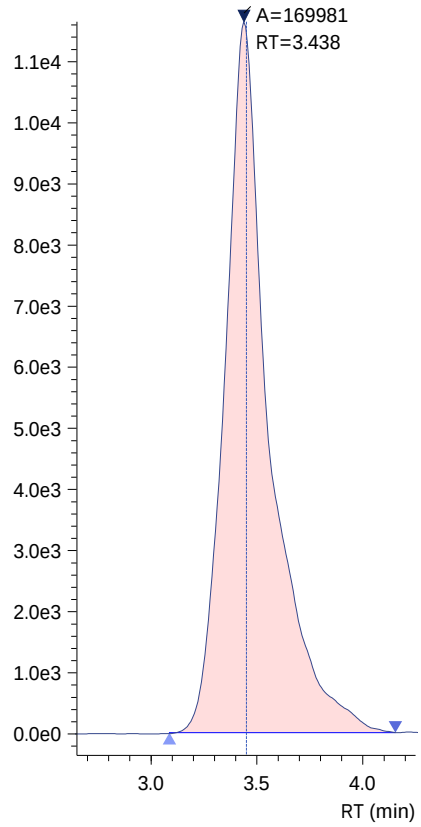
R1 101.00>85.00 (-) A=74112 5.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

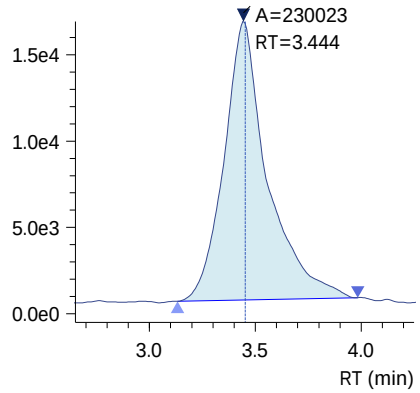
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

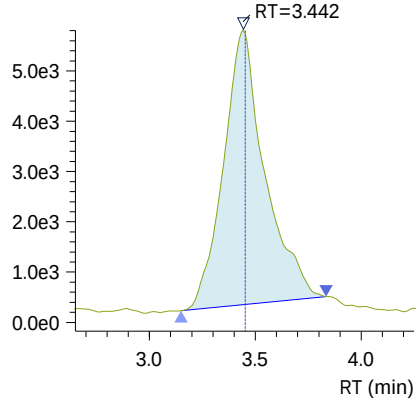
Perchlorate

Conc 10.4108
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



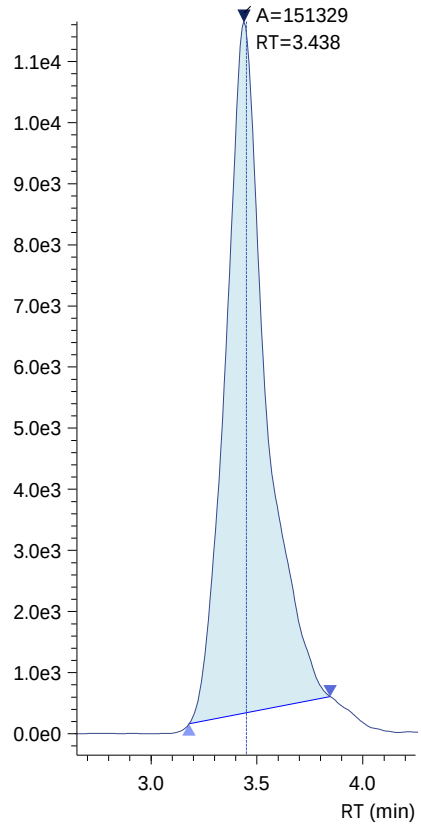
R1 101.00>85.00 (-) A=74112 5.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

IB

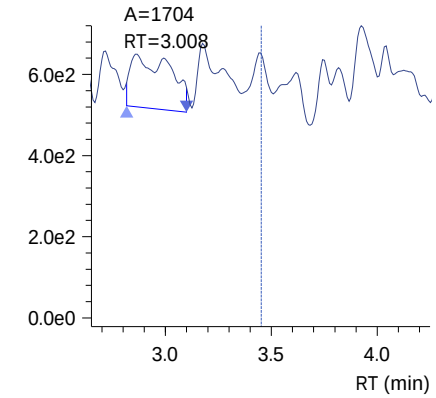
Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	183389	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.439	183389	183389	1.0000	ng/mL	----	----	

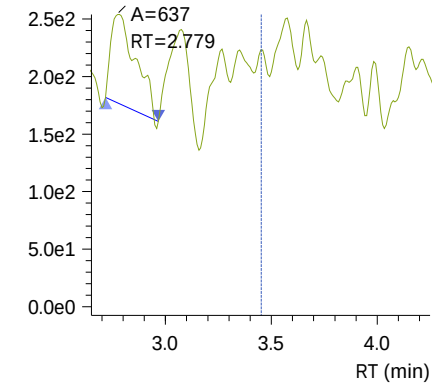
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



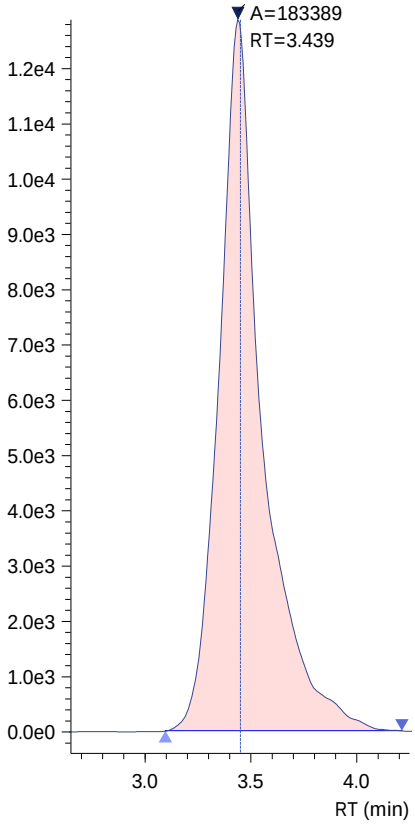
R1 101.00>85.00 (-) 2.54e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

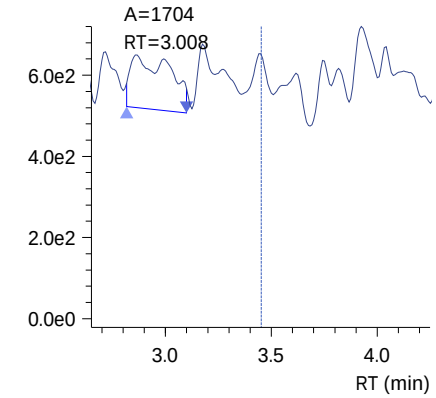
IB

Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

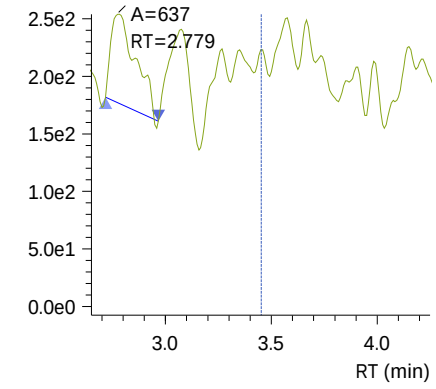
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



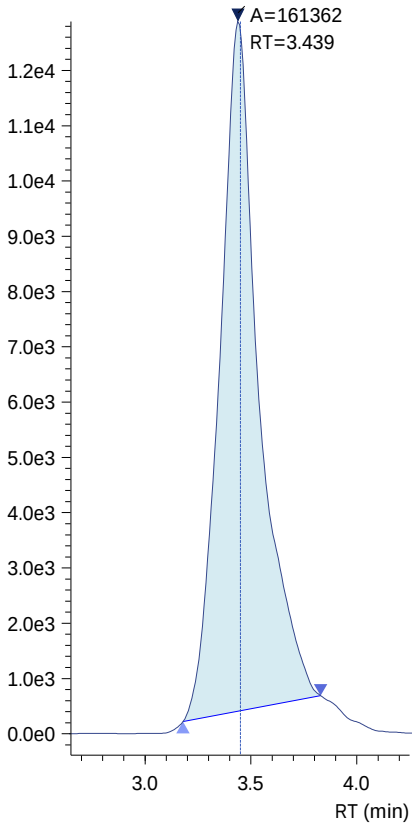
R1 101.00>85.00 (-) 2.54e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400696-003

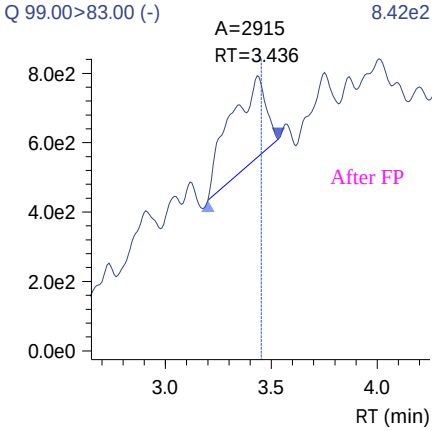
Sample ID: E2400696-003
Date Acquired: 6/24/2024 2:58:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-032.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	179741	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.430	179741	179741	1.0000	ng/mL	----	----	

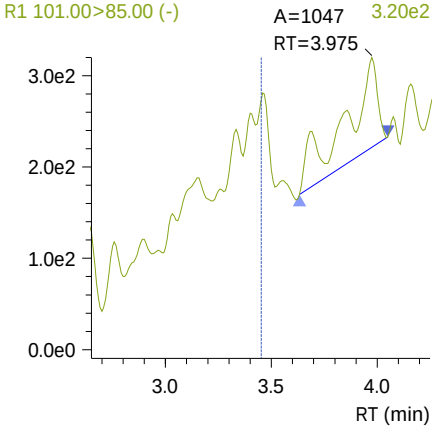
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.42e2



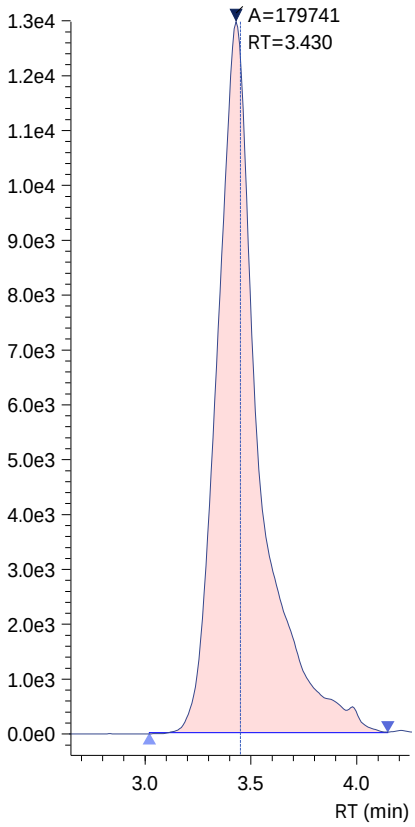
R1 101.00>85.00 (-) 3.20e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



After-BLC

Insight Report

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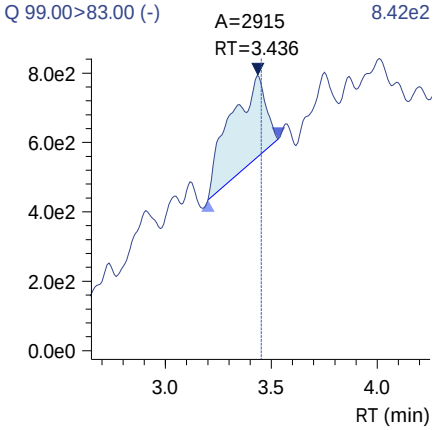
E2400696-003

Sample ID: E2400696-003
Date Acquired: 6/24/2024 2:58:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-032.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 5

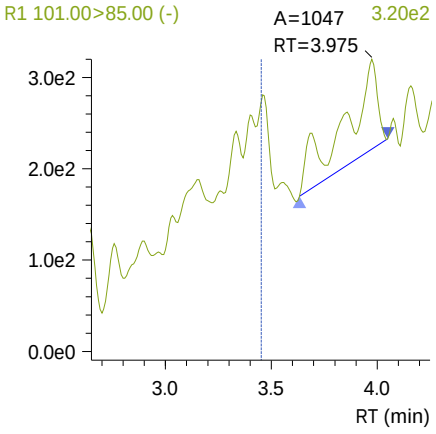
Perchlorate

Conc 0.1270
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.42e2



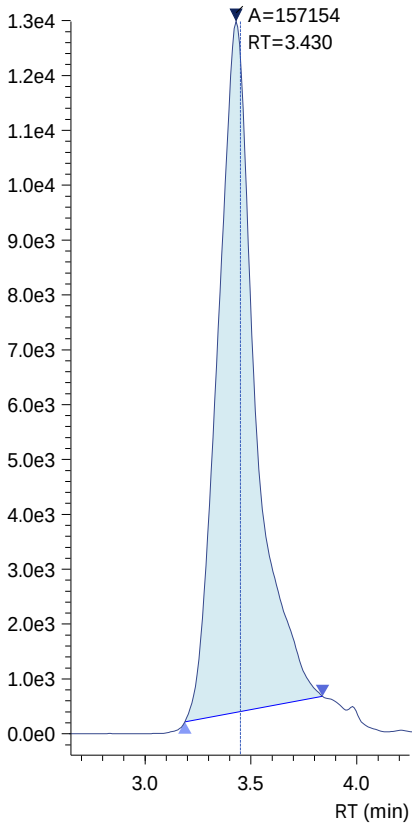
R1 101.00>85.00 (-) 3.20e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

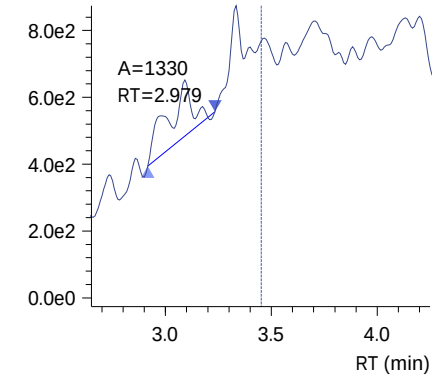
E2400696-005

Sample ID: E2400696-005
Date Acquired: 6/24/2024 3:09:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-034.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 5

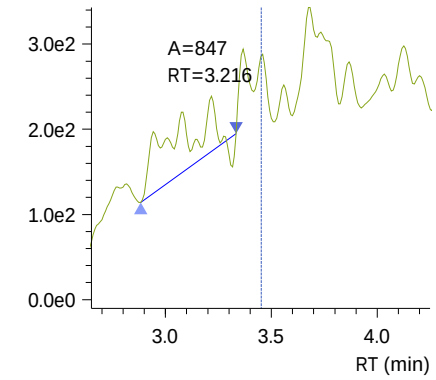
Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	209702	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.453	209702	209702	1.0000	ng/mL	----	----	

Perchlorate

Conc ----
R#1 0.00 (35.24)
Q 99.00>83.00 (-) 8.74e2

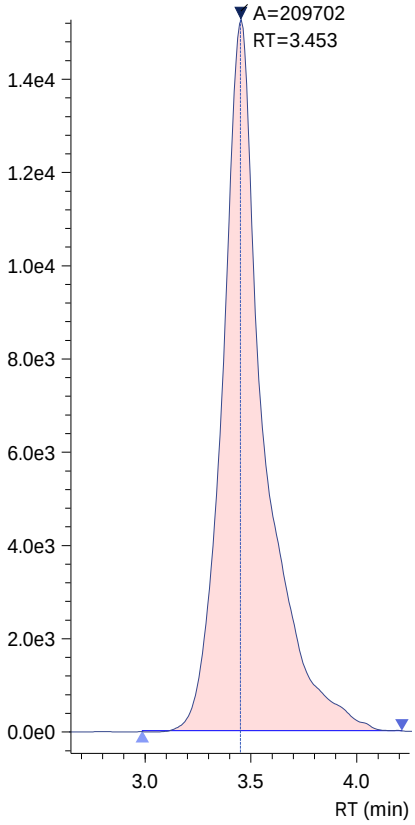


R1 101.00>85.00 (-) 3.43e2



Sodium Perchlorate-18O4_IS

Conc 1.0000
ISTD 107.00>89.00 (-) 1.53e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

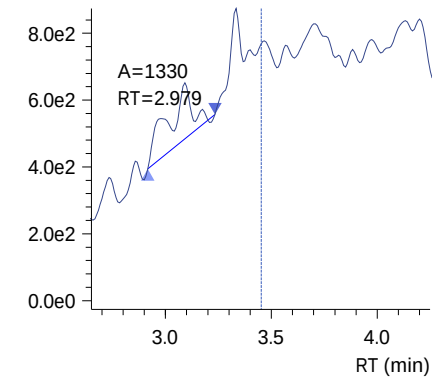
E2400696-005

Sample ID: E2400696-005
Date Acquired: 6/24/2024 3:09:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-034.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 5

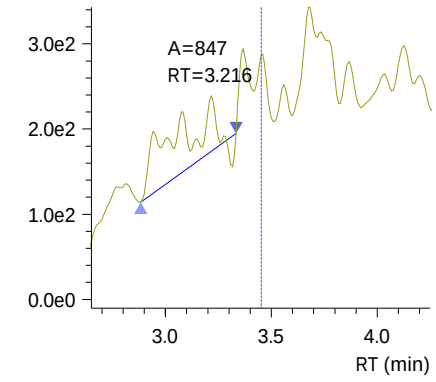
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.74e2



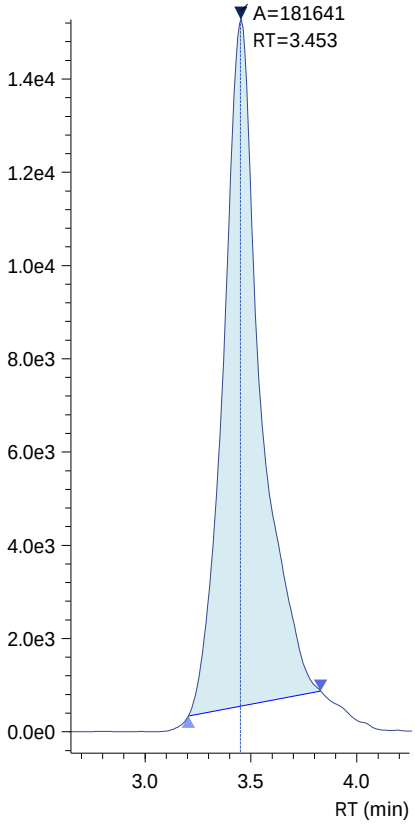
R1 101.00>85.00 (-) 3.43e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.53e4



Insight Report

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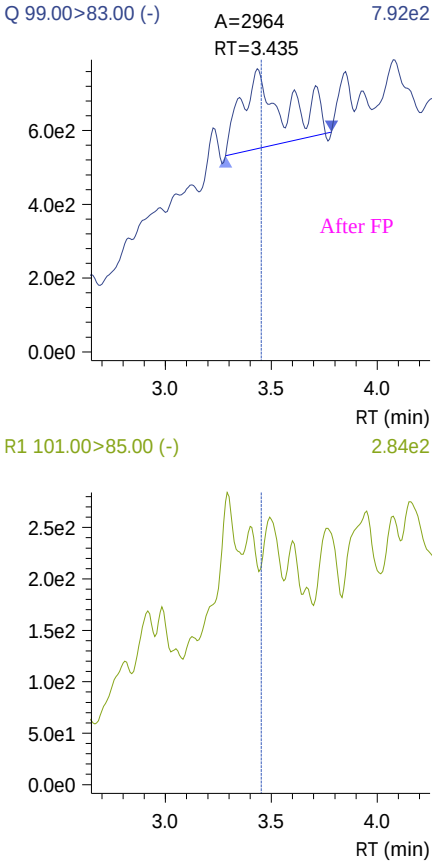
E2400696-006

Sample ID: E2400696-006
Date Acquired: 6/24/2024 3:14:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	196394	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.432	196394	196394	1.0000	ng/mL	----	----	

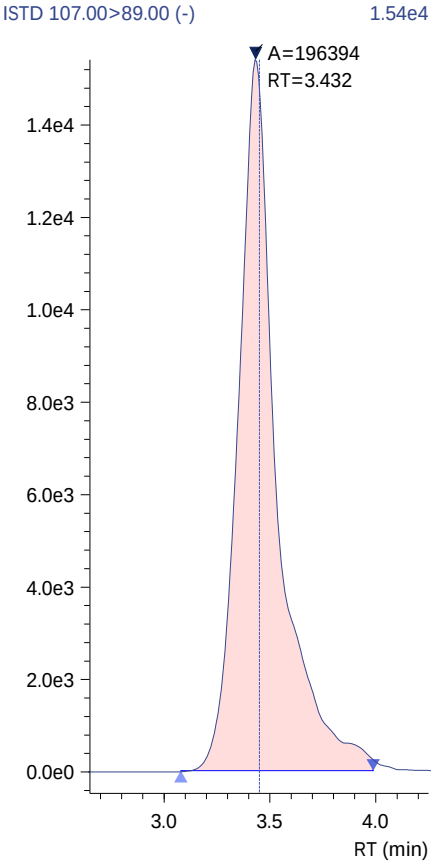
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

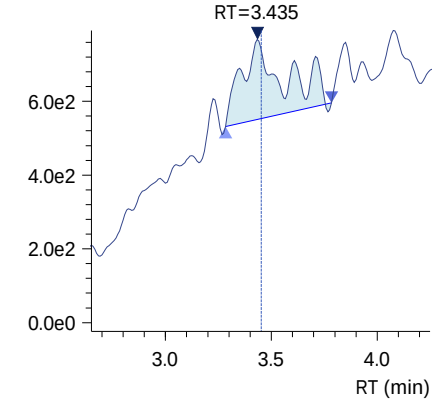
E2400696-006

Sample ID: E2400696-006
Date Acquired: 6/24/2024 3:14:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 5

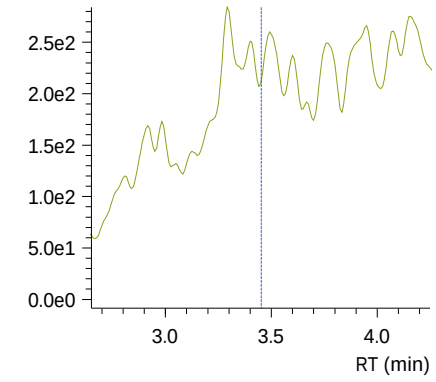
Perchlorate

Conc 0.1159
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=2964 7.92e2



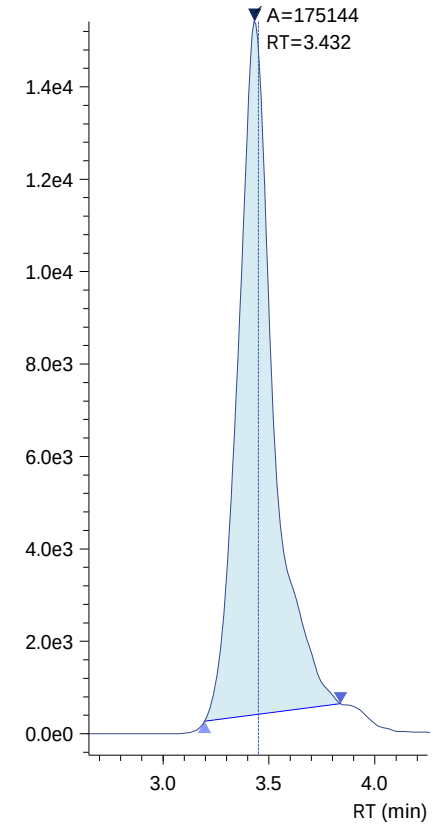
R1 101.00>85.00 (-) 2.84e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

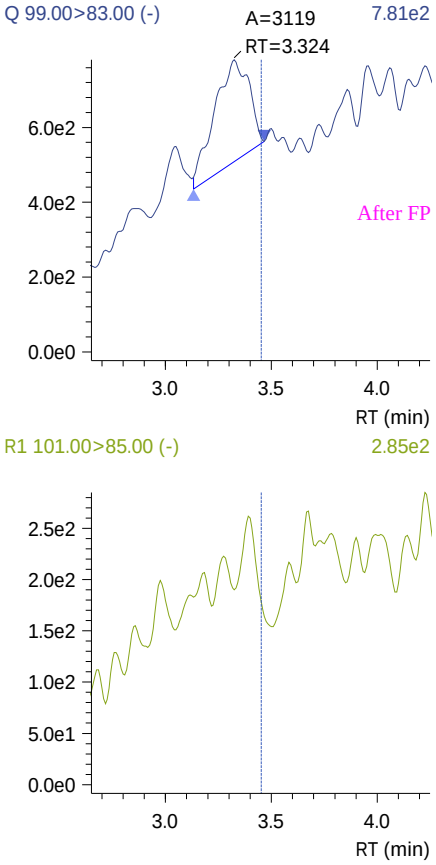
E2400696-007

Sample ID: E2400696-007
Date Acquired: 6/24/2024 3:20:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-036.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	149752	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.427	149752	149752	1.0000	ng/mL	----	----	

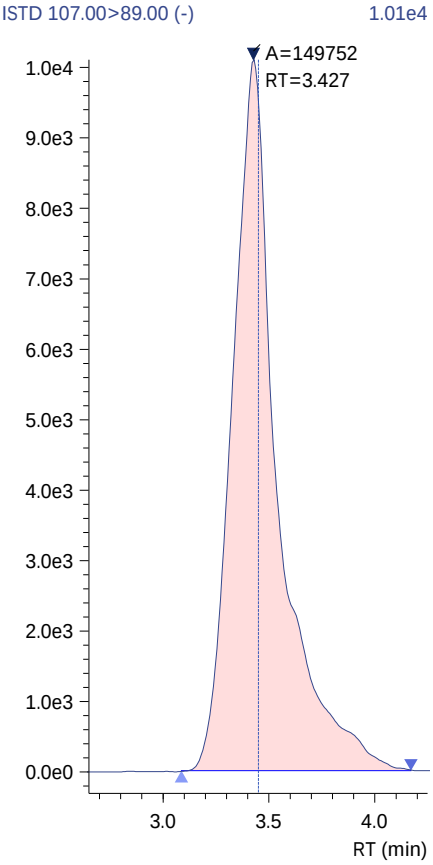
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

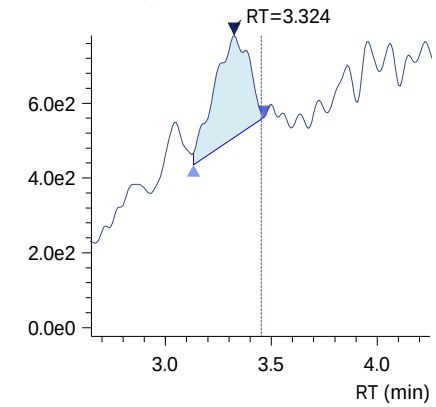
E2400696-007

Sample ID: E2400696-007
Date Acquired: 6/24/2024 3:20:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-036.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 5

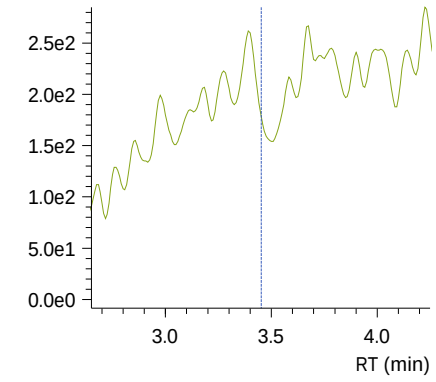
Perchlorate

Conc 0.1632
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3119 7.81e2



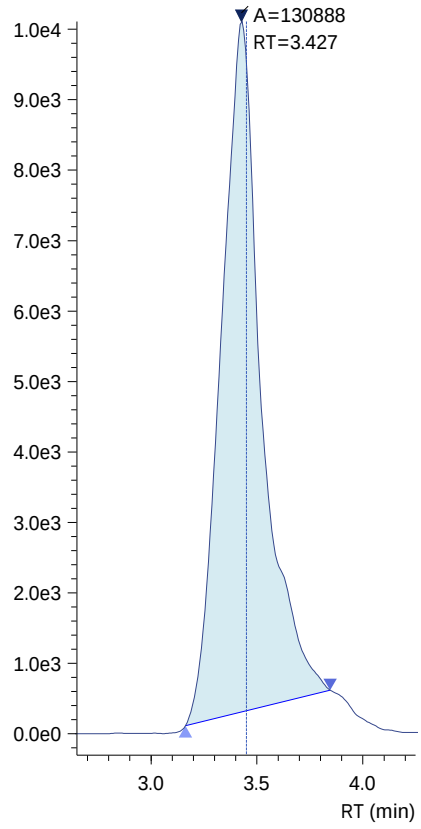
R1 101.00>85.00 (-) 2.85e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.01e4



Insight Report

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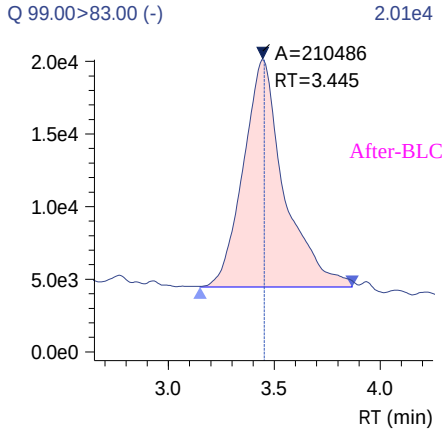
CCV

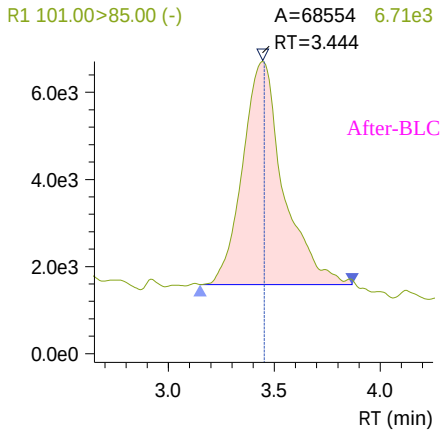
Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.445	210486	160199	8.9990	ng/mL	101.00 >85.00	32.57	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.436	160199	160199	1.0000	ng/mL	----	----	

Perchlorate

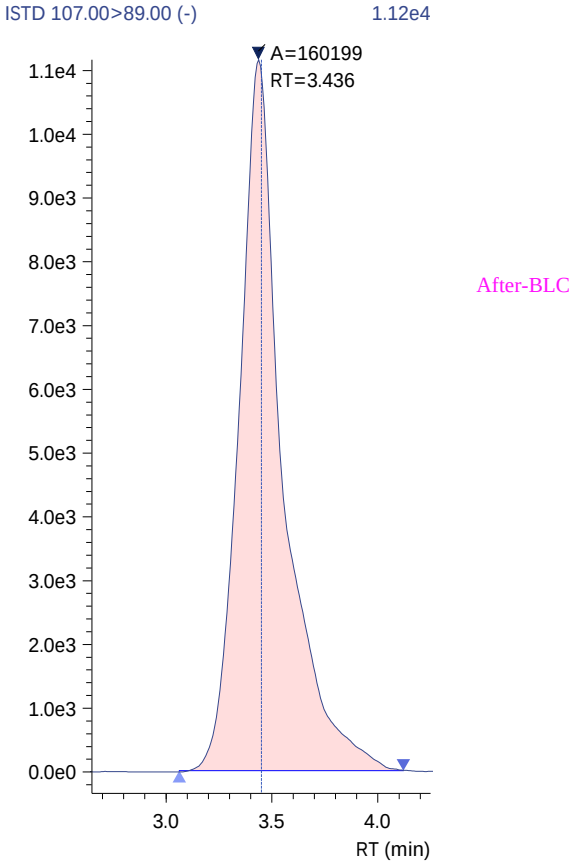
Conc 8.9990
R#1 32.57 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

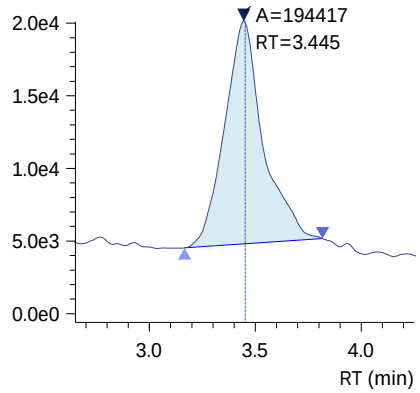
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

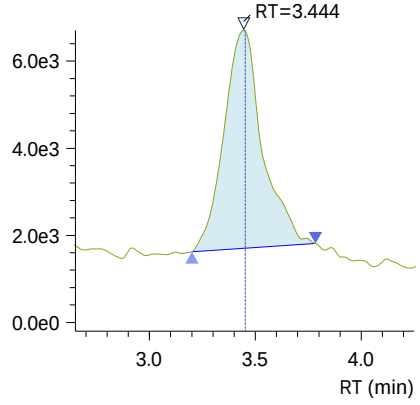
Perchlorate

Conc 9.4579
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 2.01e4



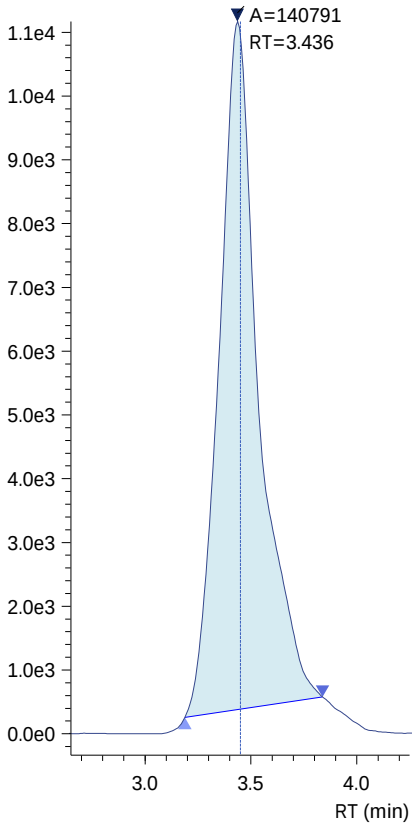
R1 101.00>85.00 (-) A=63331 6.71e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

IB

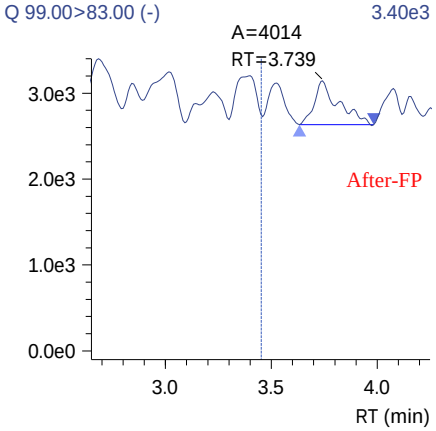
Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	170279	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.438	170279	170279	1.0000	ng/mL	----	----	

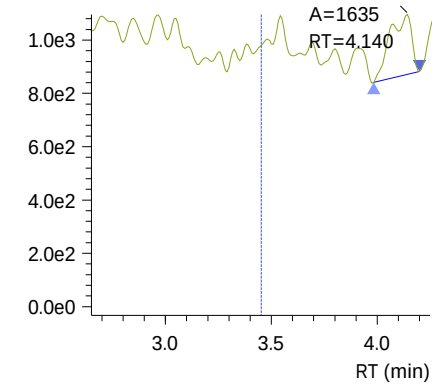
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



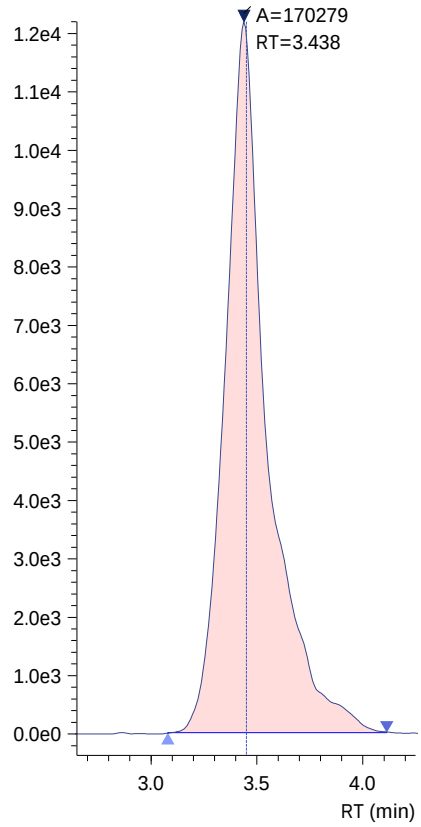
R1 101.00>85.00 (-) 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

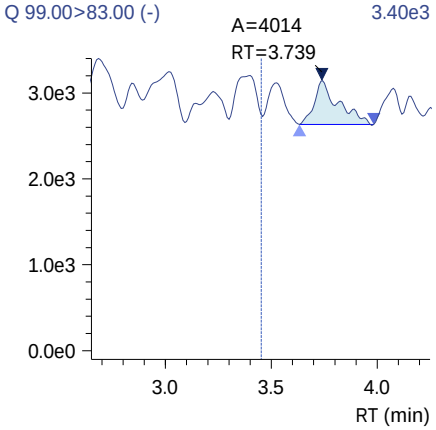
IB

Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

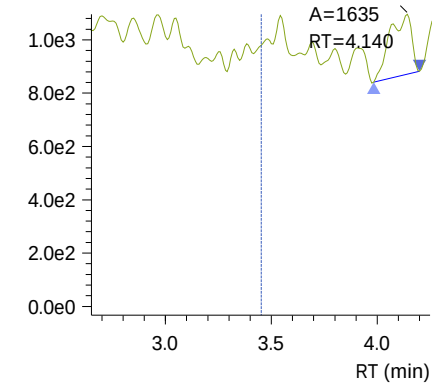
Perchlorate

Conc 0.1852
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



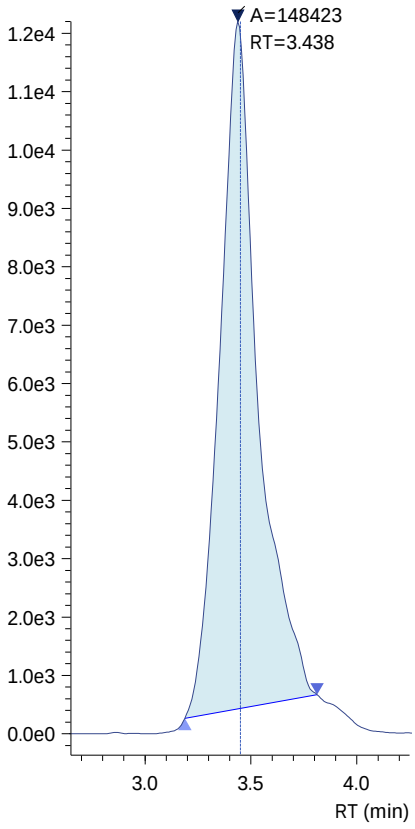
R1 101.00>85.00 (-) 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

IB

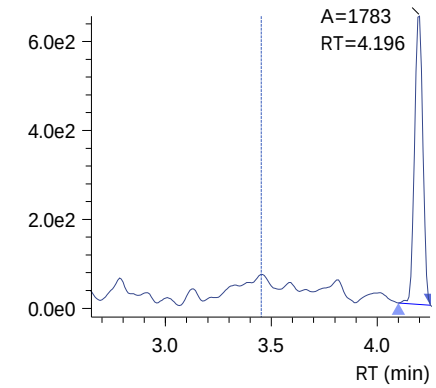
Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	212789	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.445	212789	212789	1.0000	ng/mL	----	----	

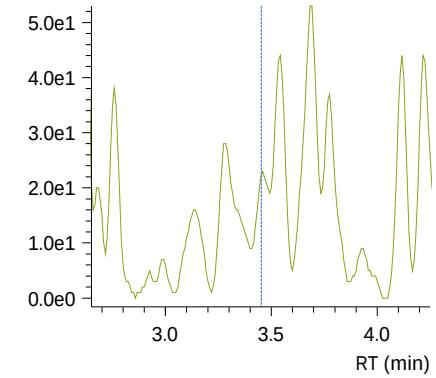
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.57e2



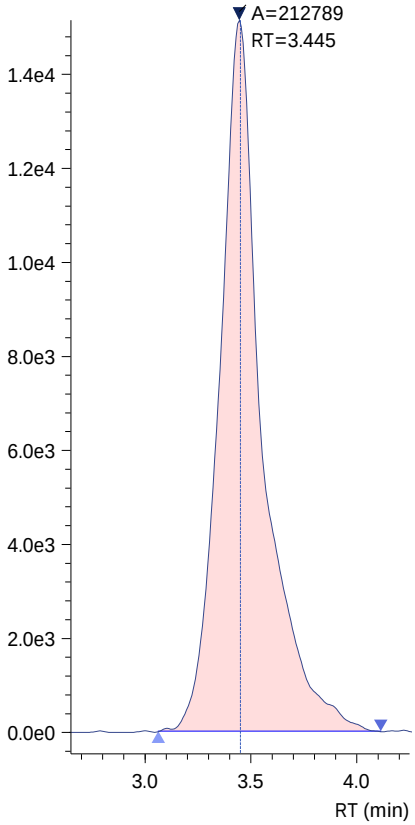
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



After-BLC

Insight Report

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Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

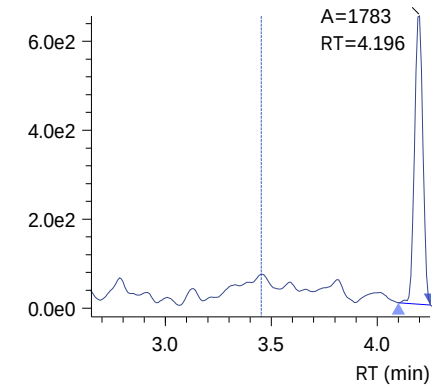
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

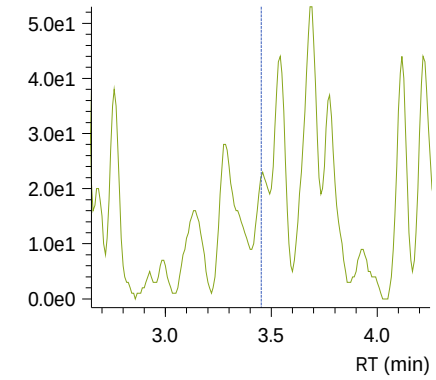
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.57e2



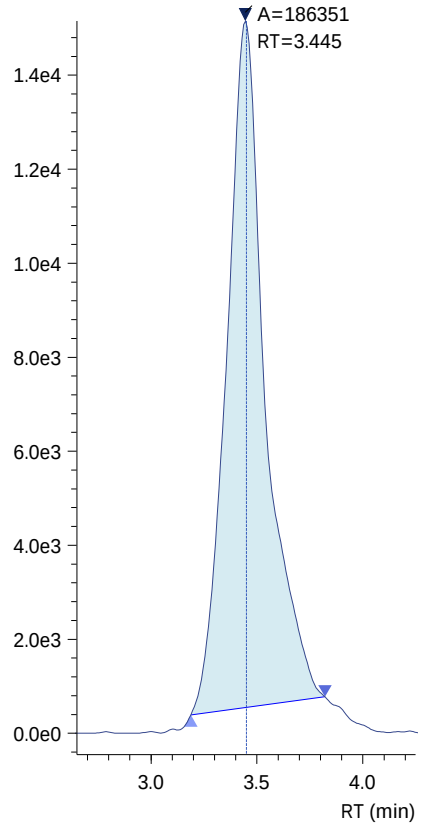
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



Insight Report

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LODV

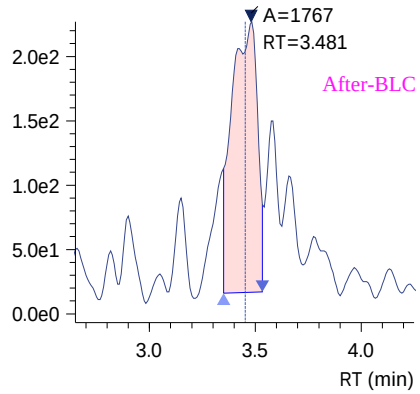
Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.481	1767	226390	0.0534	ng/mL	101.00 >85.00	40.24	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.443	226390	226390	1.0000	ng/mL	----	----	

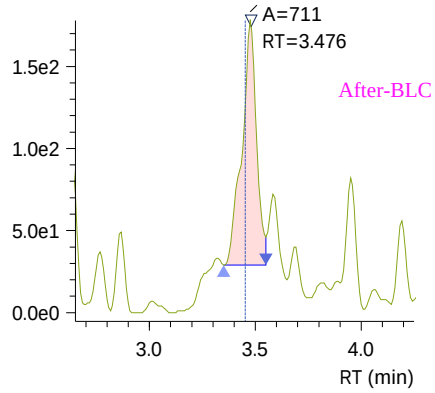
Perchlorate

Conc 0.0534
R#1 40.24 (35.24)

Q 99.00>83.00 (-) 2.27e2



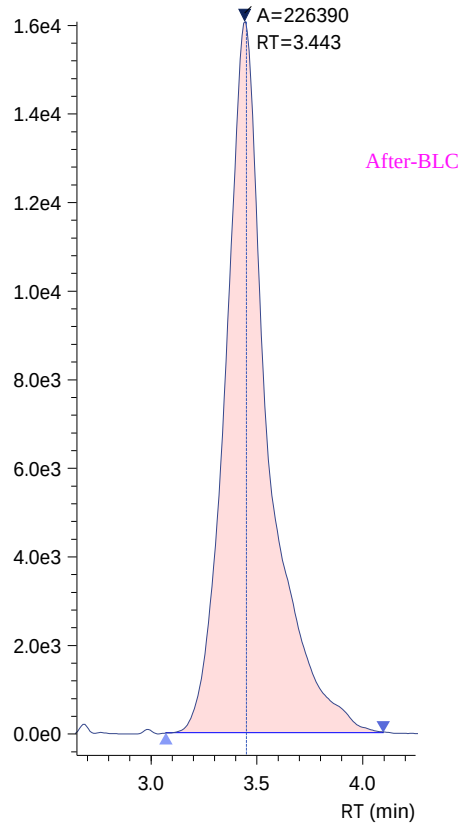
R1 101.00>85.00 (-) 1.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

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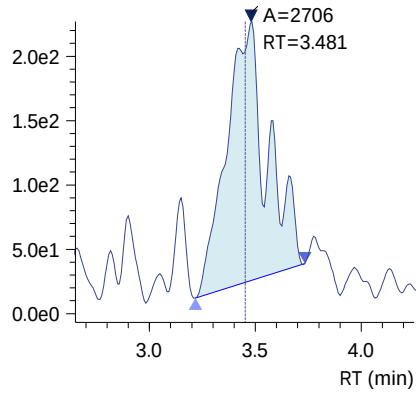
LODV

Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

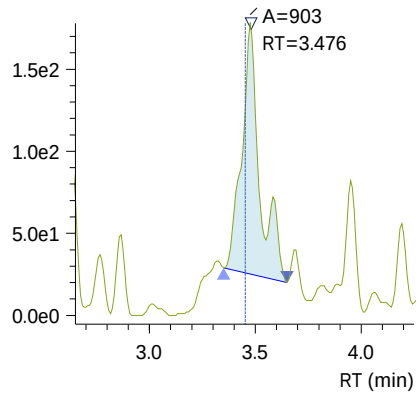
Perchlorate

Conc 0.0918
R#1 33.36 (35.24)

Q 99.00>83.00 (-) 2.27e2



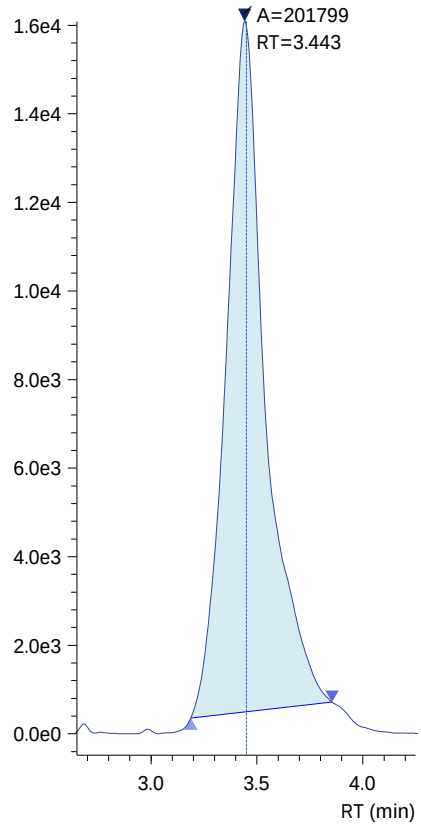
R1 101.00>85.00 (-) 1.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

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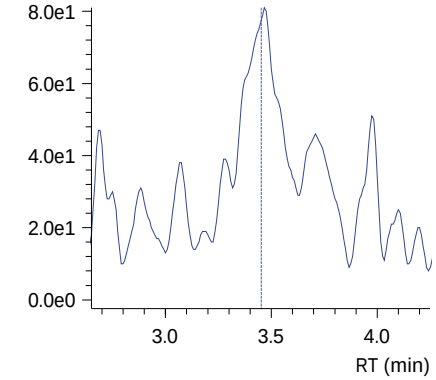
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

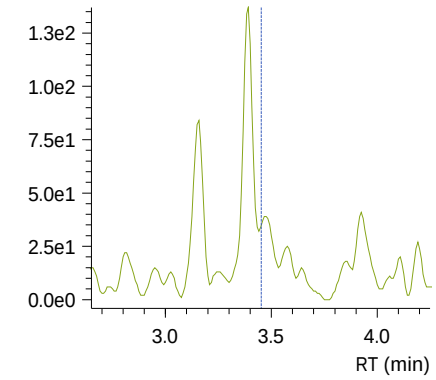
Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	214864	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	214864	214864	1.0000	ng/mL	----	----	

Perchlorate

Conc ----
R#1 0.00 (35.24)
Q 99.00>83.00 (-) 8.10e1

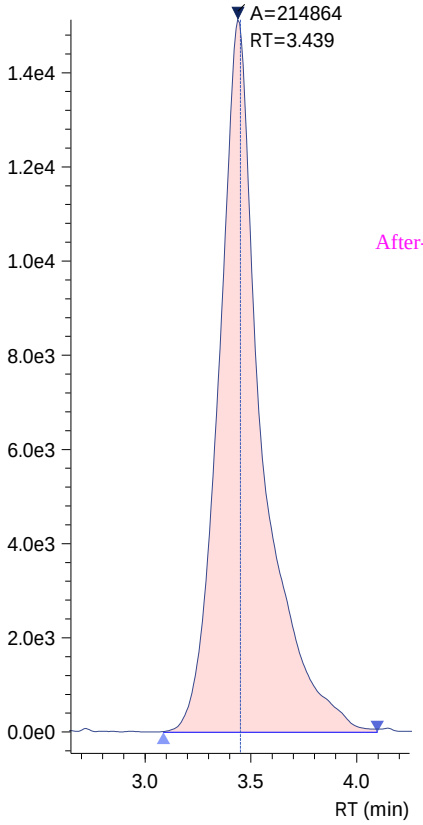


R1 101.00>85.00 (-) 1.37e2



Sodium Perchlorate-18O4_IS

Conc 1.0000
ISTD 107.00>89.00 (-) 1.51e4



After-BLC

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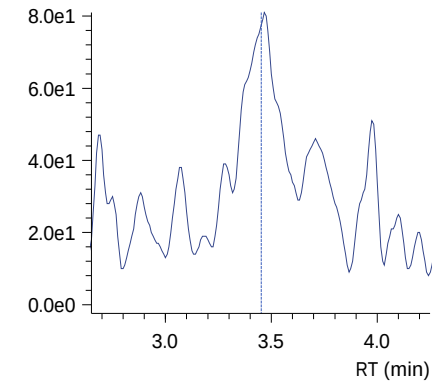
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

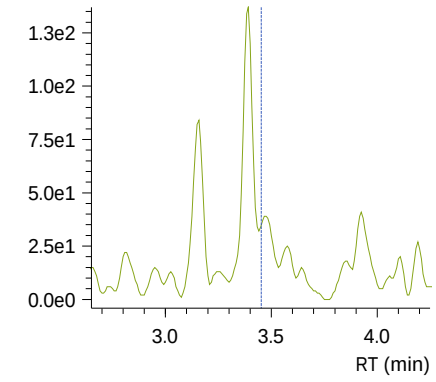
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.10e1



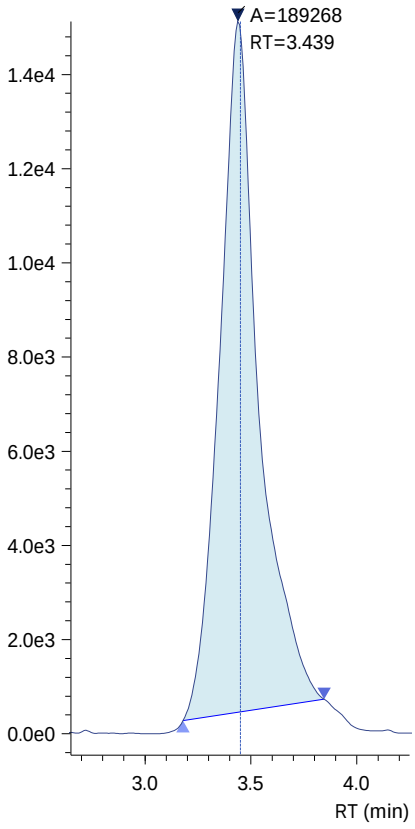
R1 101.00>85.00 (-) 1.37e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

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CCV

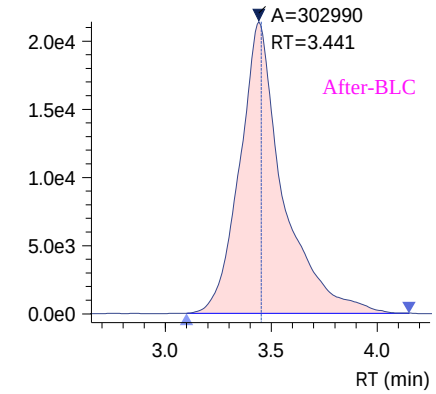
Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	302990	212258	9.7768	ng/mL	101.00 >85.00	34.11	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	212258	212258	1.0000	ng/mL	----	----	

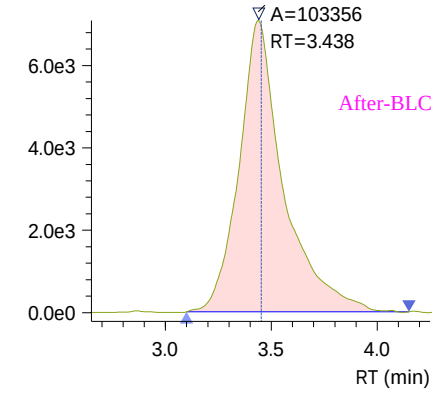
Perchlorate

Conc 9.7768
R#1 34.11 (35.24)

Q 99.00>83.00 (-) 2.14e4



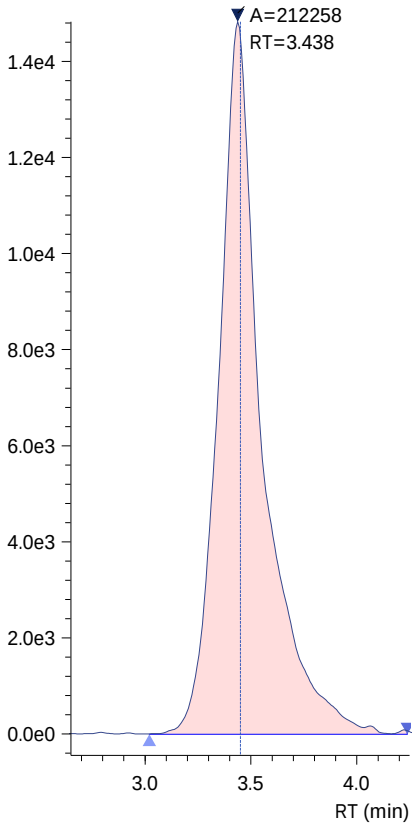
R1 101.00>85.00 (-) 7.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



After-BLC

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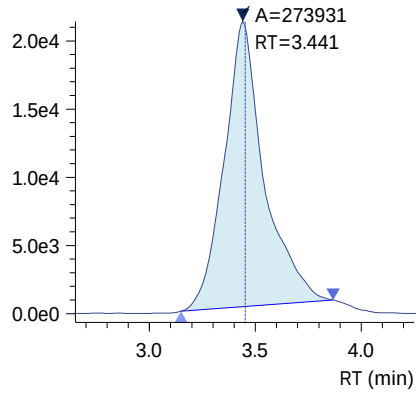
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

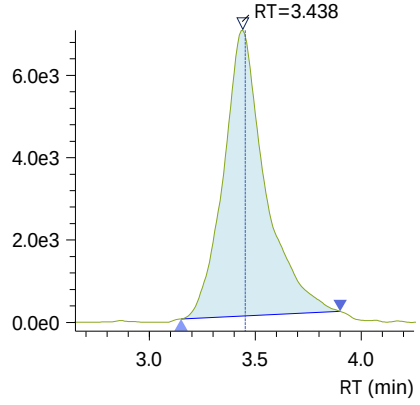
Perchlorate

Conc 10.1561
R#1 34.72 (35.24)

Q 99.00>83.00 (-) 2.14e4



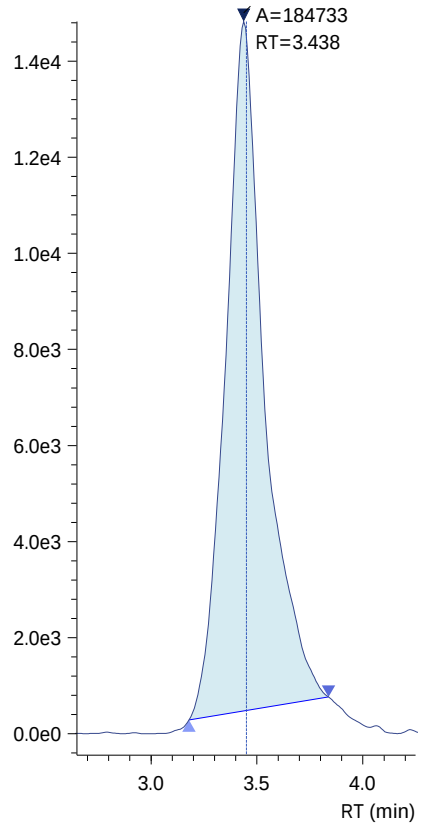
R1 101.00>85.00 (-) A=95103 7.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



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IB

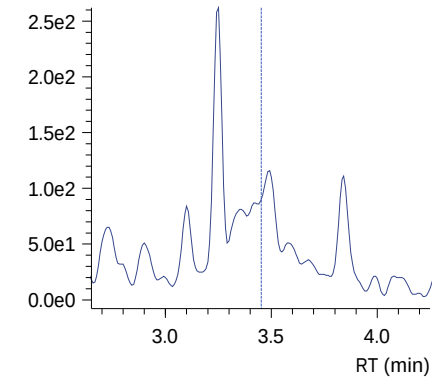
Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	214322	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	214322	214322	1.0000	ng/mL	----	----	

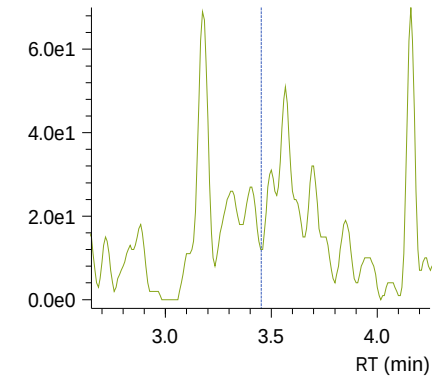
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.62e2



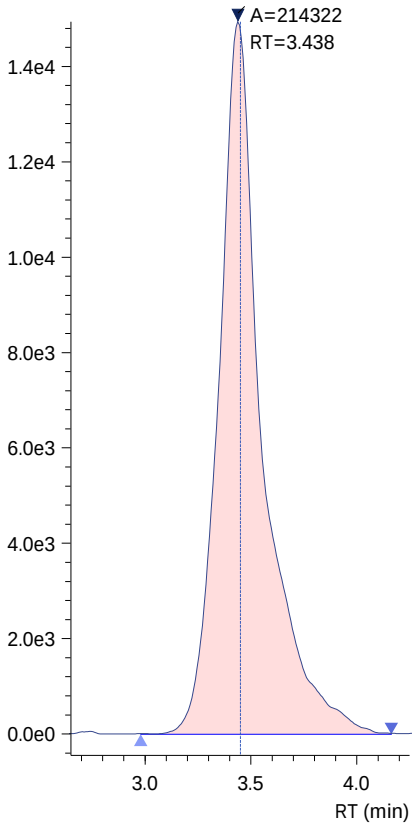
R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



After-BLC

Insight Report

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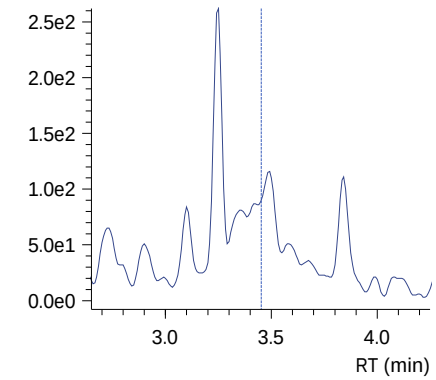
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

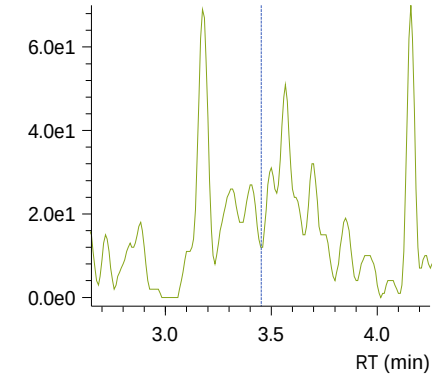
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.62e2



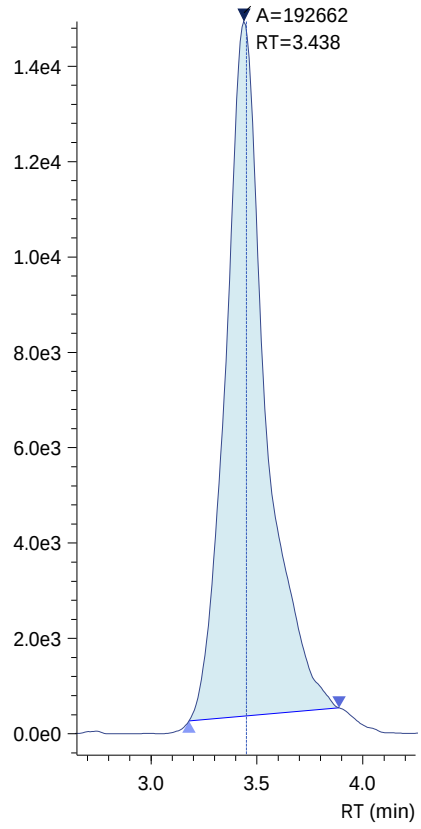
R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

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E2400696-001X100

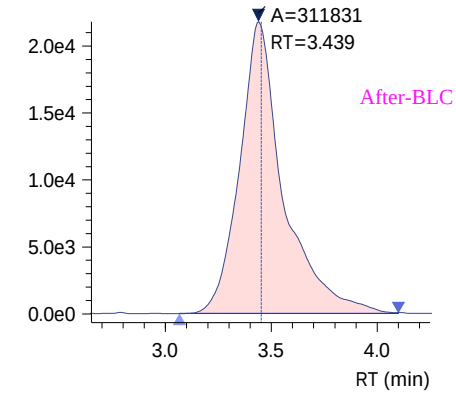
Sample ID: E2400696-001X100
Date Acquired: 6/25/2024 1:55:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.439	3118 31	199802	10.6 893	ng/mL	101.00 >85.00	34.42	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.442	1998 02	199802	1.0000	ng/mL	----	----	

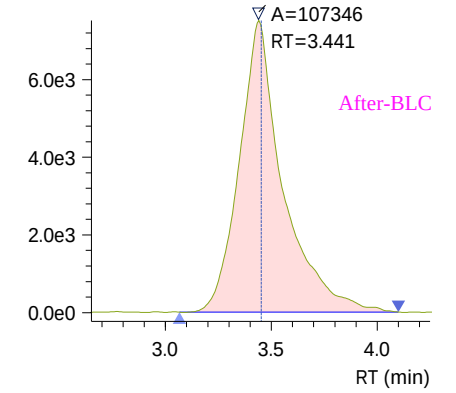
Perchlorate

Conc 10.6893
R#1 34.42 (35.24)

Q 99.00>83.00 (-) 2.18e4



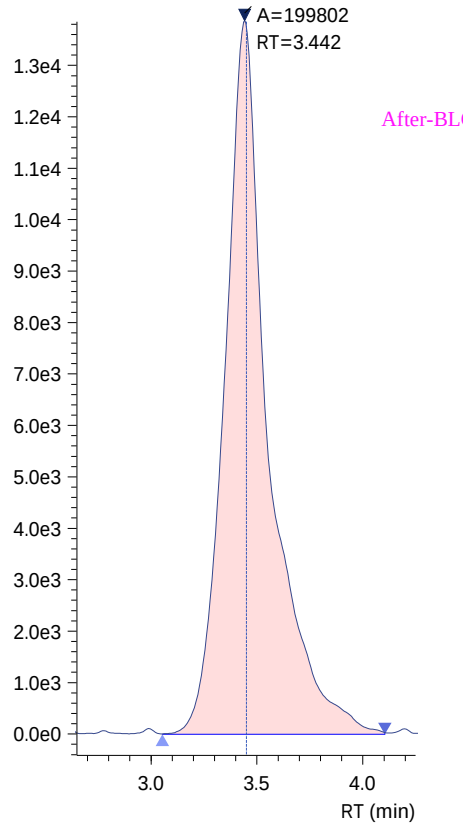
R1 101.00>85.00 (-) 7.52e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.38e4



Insight Report

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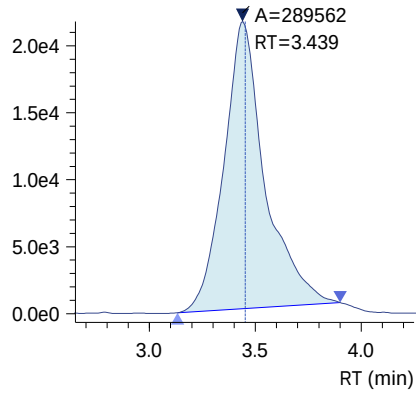
E2400696-001X100

Sample ID: E2400696-001X100
Date Acquired: 6/25/2024 1:55:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 6

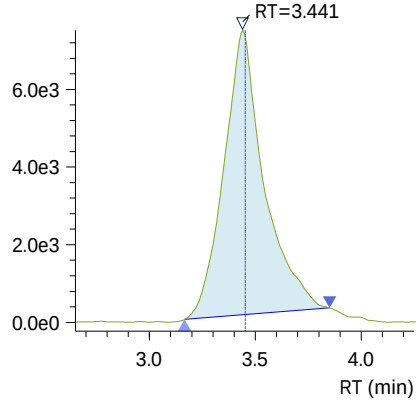
Perchlorate

Conc 11.2239
R#1 33.33 (35.24)

Q 99.00>83.00 (-) 2.18e4



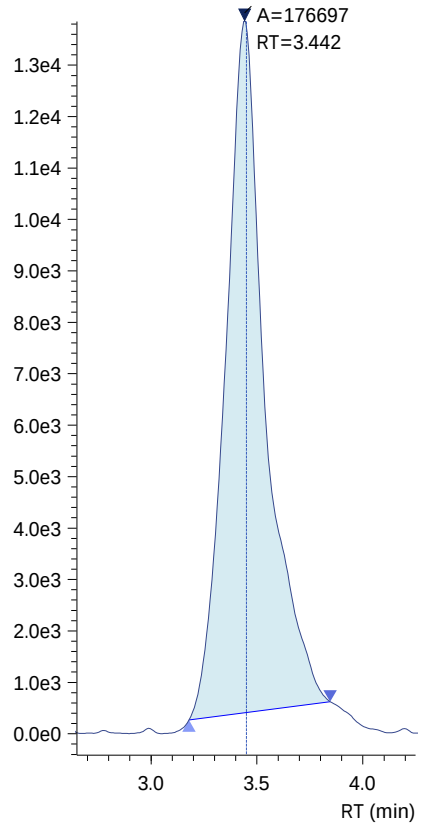
R1 101.00>85.00 (-) A=96505 7.52e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.38e4



Insight Report

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E2400696-002X100

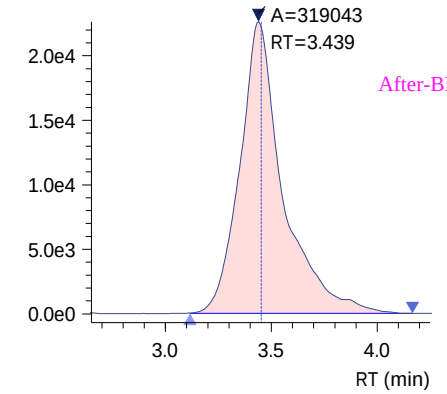
Sample ID: E2400696-002X100
Date Acquired: 6/25/2024 2:00:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-008.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.439	3190 43	199406	10.9 583	ng/mL	101.00 >85.00	34.84	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.440	1994 06	199406	1.0000	ng/mL	----	----	

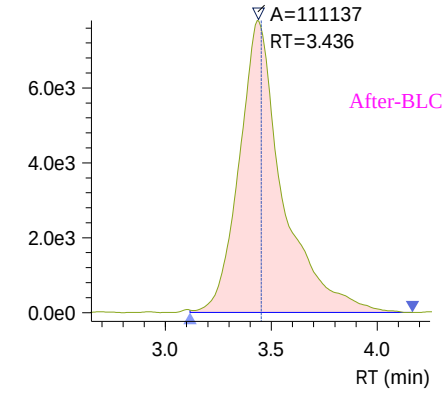
Perchlorate

Conc 10.9583
R#1 34.84 (35.24)

Q 99.00>83.00 (-) 2.26e4



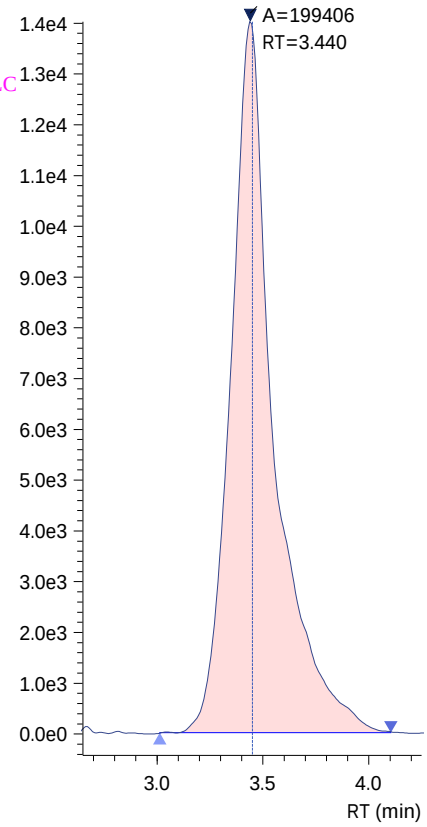
R1 101.00>85.00 (-) 7.80e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.40e4



Insight Report

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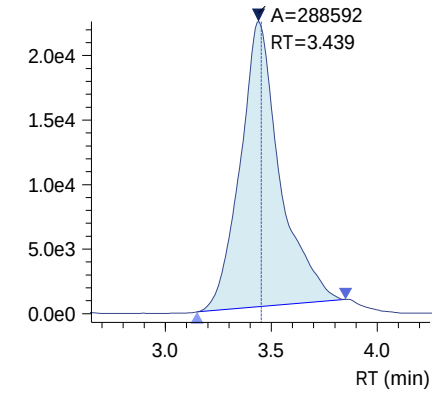
E2400696-002X100

Sample ID: E2400696-002X100
Date Acquired: 6/25/2024 2:00:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-008.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 6

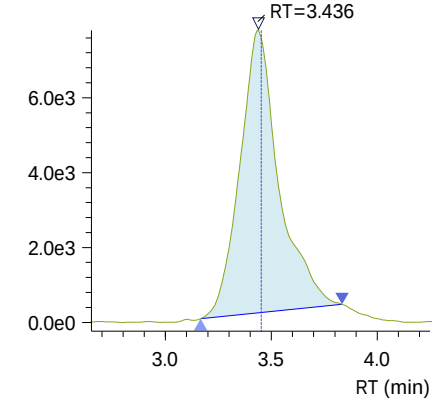
Perchlorate

Conc 11.0772
R#1 33.49 (35.24)

Q 99.00>83.00 (-) 2.26e4



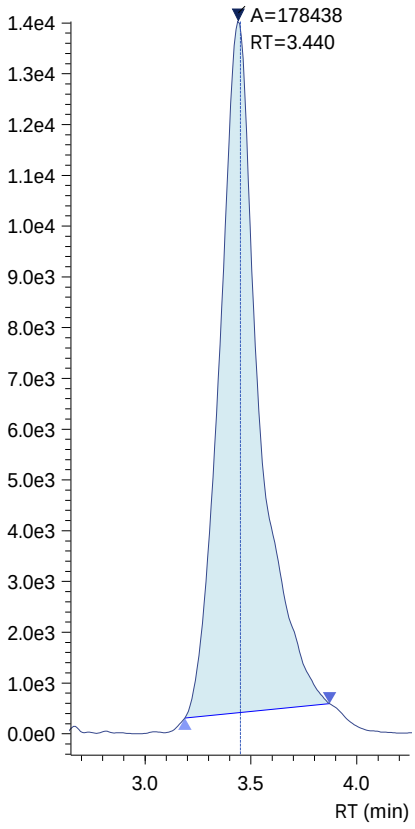
R1 101.00>85.00 (-) A=96637 7.80e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.40e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

E2400696-004X100

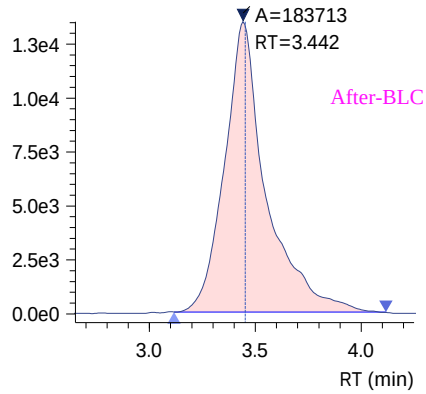
Sample ID: E2400696-004X100
Date Acquired: 6/25/2024 2:06:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	1837 13	196051	6.4181	ng/mL	101.00 >85.00	34.46	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	1960 51	196051	1.0000	ng/mL	----	----	

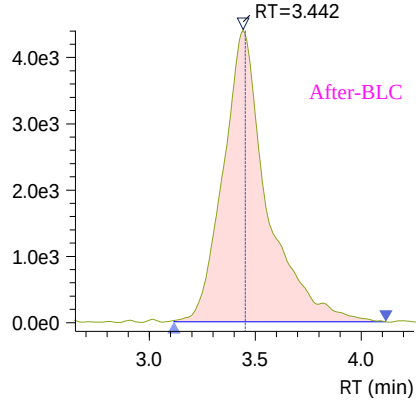
Perchlorate

Conc 6.4181
R#1 34.46 (35.24)

Q 99.00>83.00 (-) 1.35e4



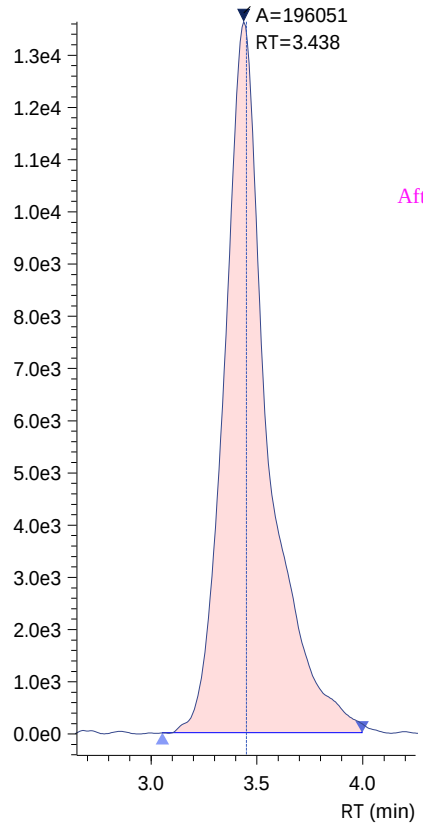
R1 101.00>85.00 (-) A=63308 4.41e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.36e4



Insight Report

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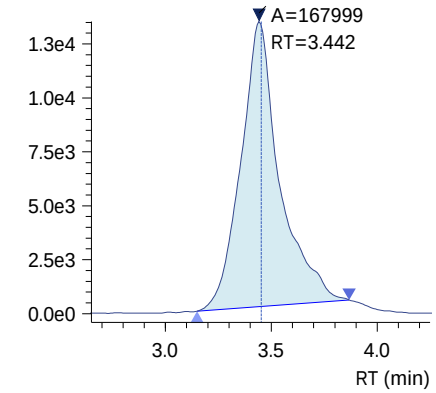
E2400696-004X100

Sample ID: E2400696-004X100
Date Acquired: 6/25/2024 2:06:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 6

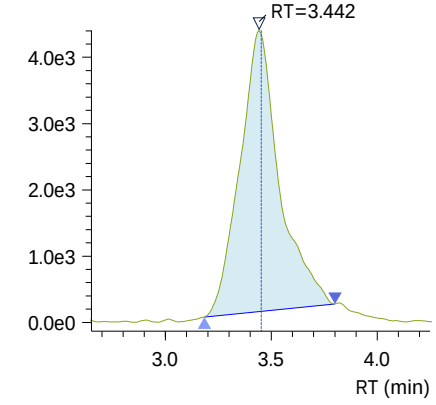
Perchlorate

Conc 6.6481
R#1 32.70 (35.24)

Q 99.00>83.00 (-) 1.35e4



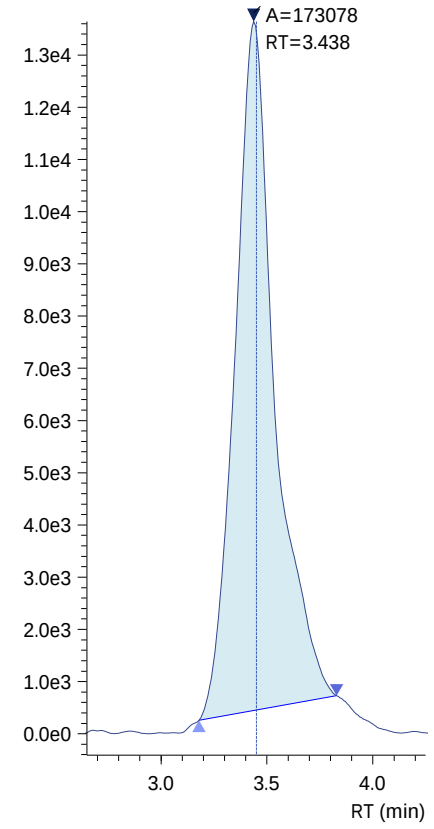
R1 101.00>85.00 (-) A=54934 4.41e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.36e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

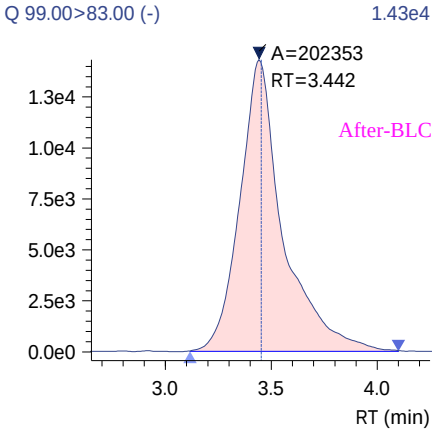
E2400696-008X100

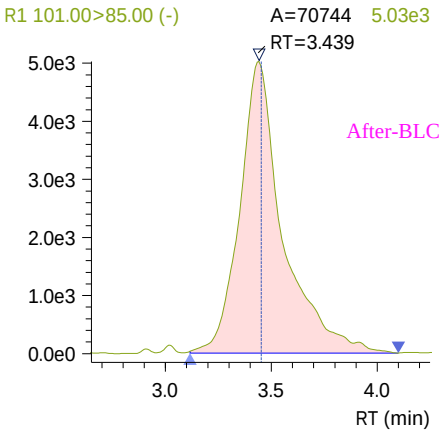
Sample ID: E2400696-008X100
Date Acquired: 6/25/2024 2:11:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	202353	205700	6.7376	ng/mL	101.00 >85.00	34.96	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	205700	205700	1.0000	ng/mL	----	----	

Perchlorate

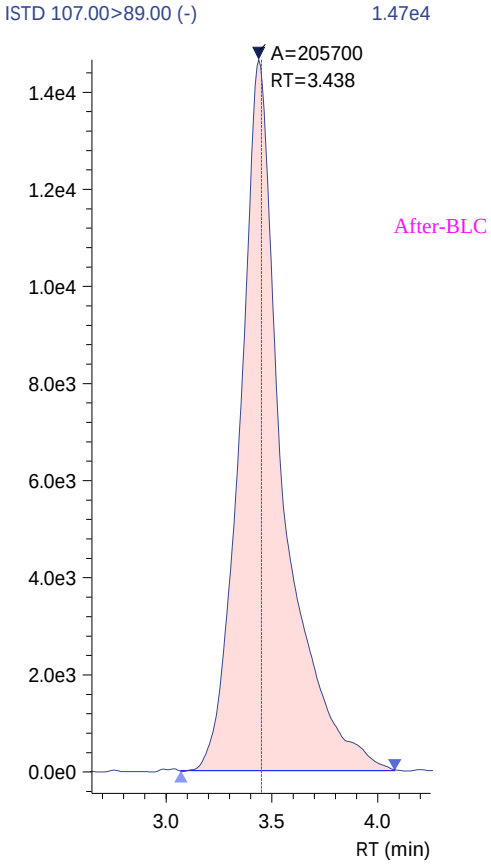
Conc 6.7376
R#1 34.96 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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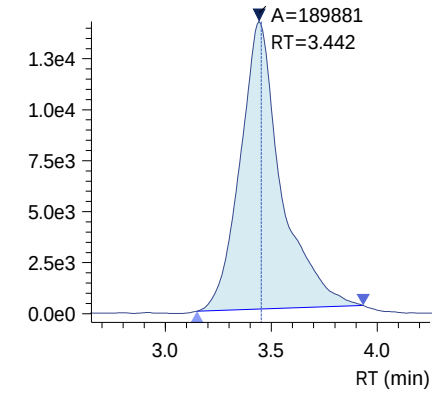
E2400696-008X100

Sample ID: E2400696-008X100
Date Acquired: 6/25/2024 2:11:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 6

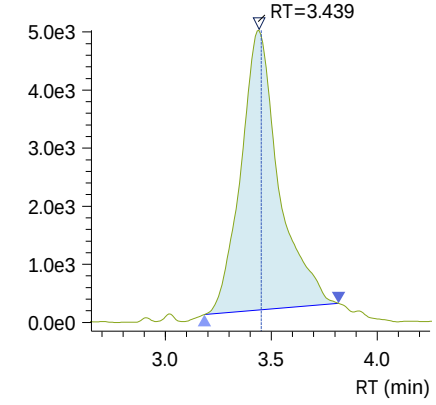
Perchlorate

Conc 7.1356
R#1 31.61 (35.24)

Q 99.00>83.00 (-) 1.43e4



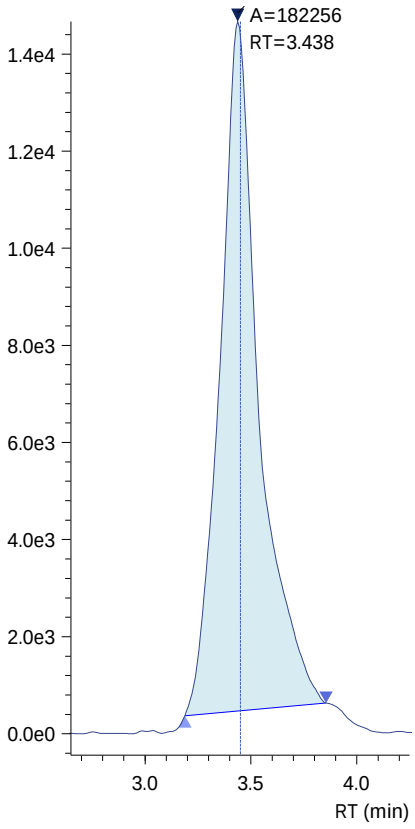
R1 101.00>85.00 (-) A=60019 5.03e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.47e4



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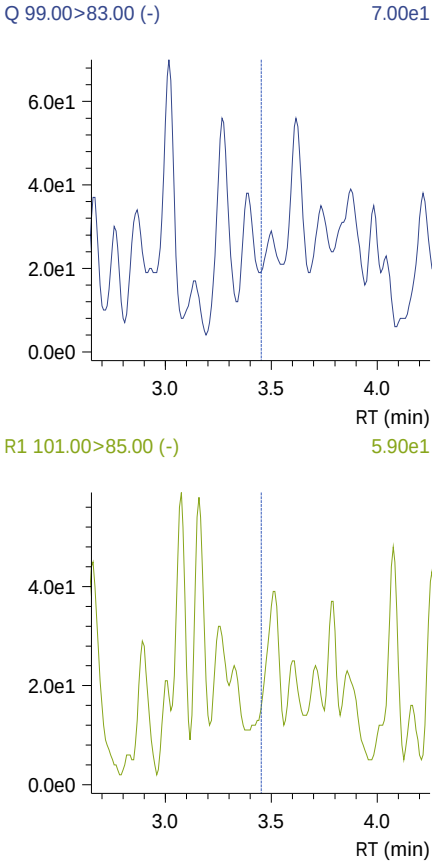
E2400696-009X10

Sample ID: E2400696-009X10
Date Acquired: 6/25/2024 2:17:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	232784	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	232784	232784	1.0000	ng/mL	----	----	

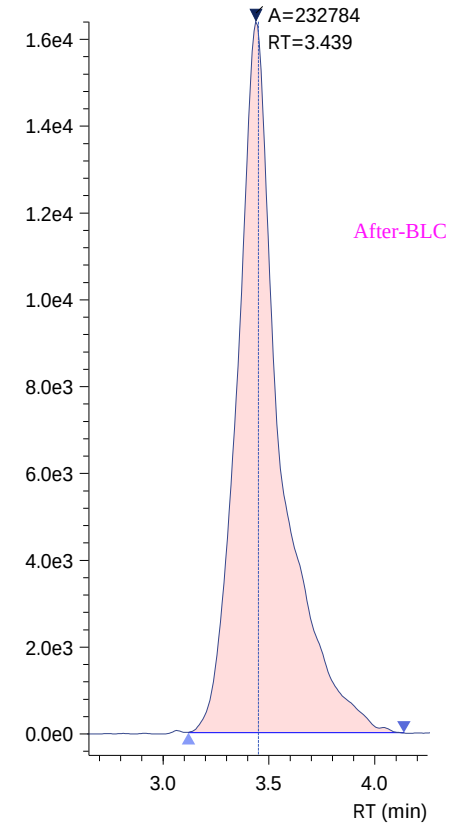
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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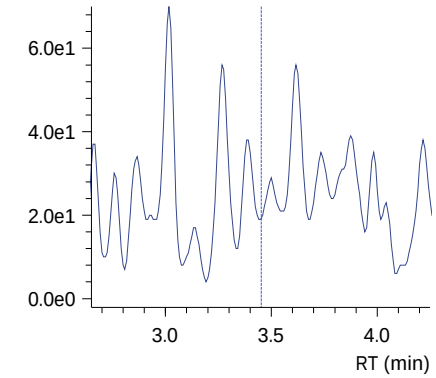
E2400696-009X10

Sample ID: E2400696-009X10
Date Acquired: 6/25/2024 2:17:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 6

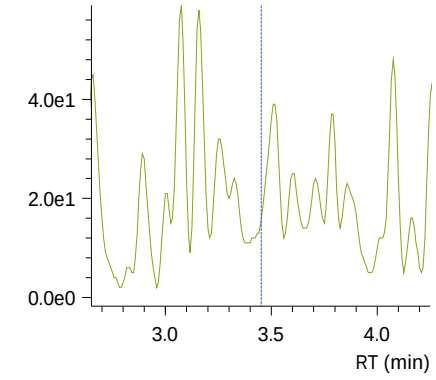
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.00e1



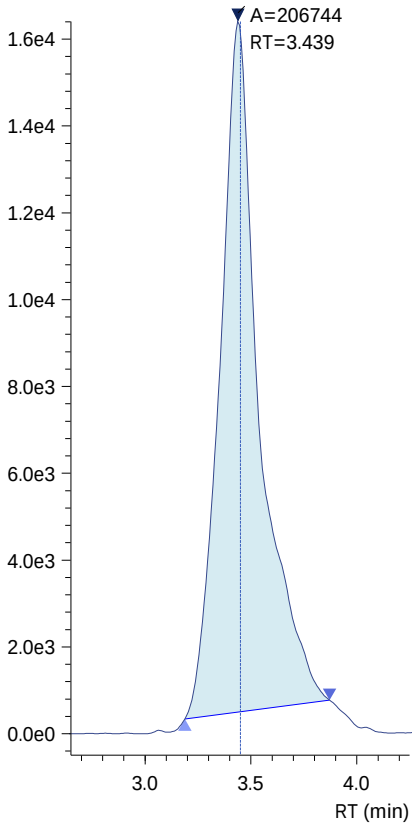
R1 101.00>85.00 (-) 5.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.64e4



Insight Report

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E2400696-010X10

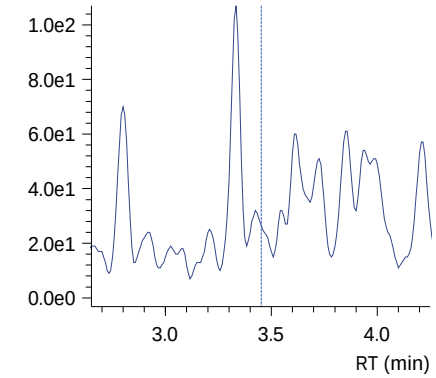
Sample ID: E2400696-010X10
Date Acquired: 6/25/2024 2:22:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	225422	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.440	225422	225422	1.0000	ng/mL	----	----	

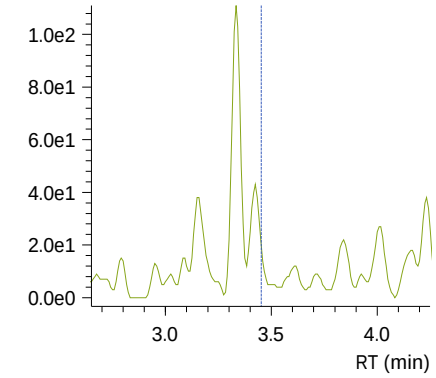
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.07e2



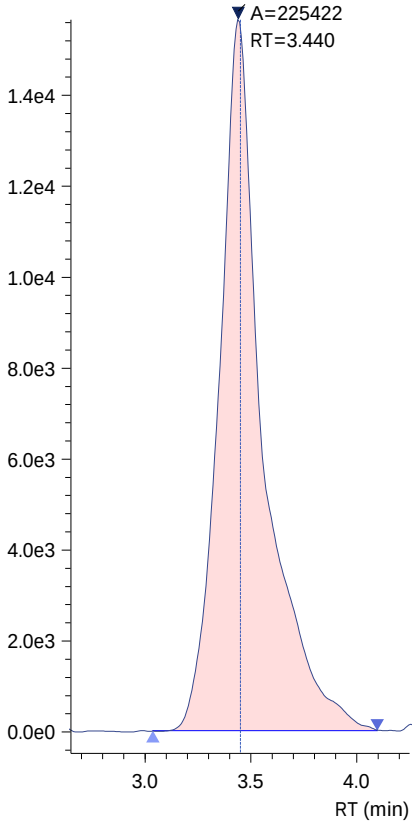
R1 101.00>85.00 (-) 1.11e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.57e4



After-BLC

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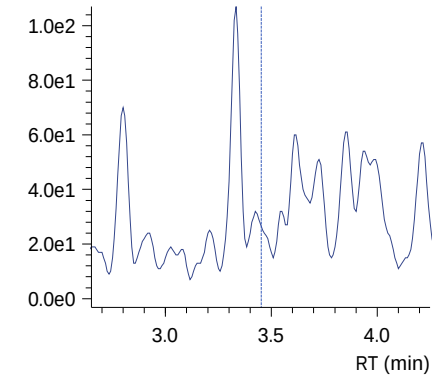
E2400696-010X10

Sample ID: E2400696-010X10
Date Acquired: 6/25/2024 2:22:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 6

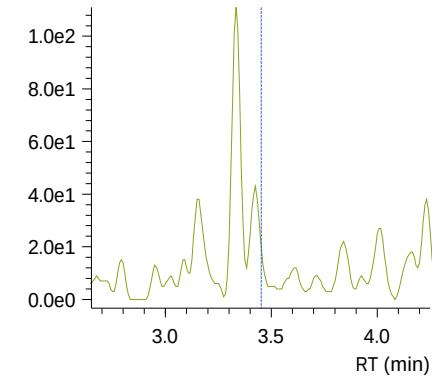
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.07e2



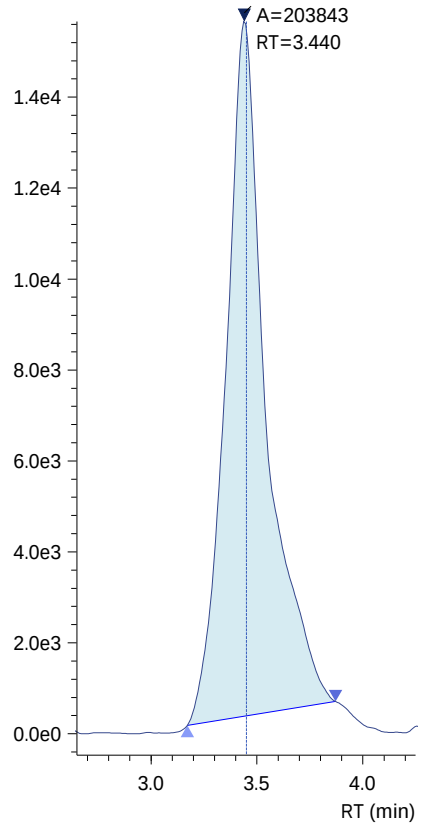
R1 101.00>85.00 (-) 1.11e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.57e4



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CCV

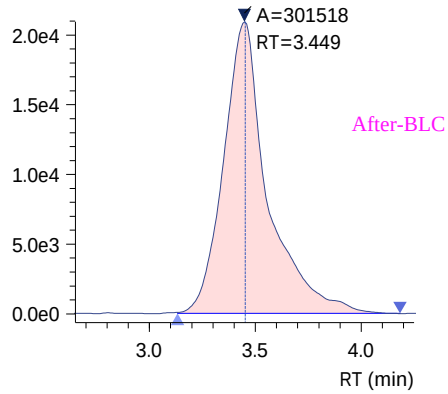
Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.449	3015 18	203781	10.1 340	ng/mL	101.00 >85.00	33.73	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	2037 81	203781	1.0000	ng/mL	----	----	

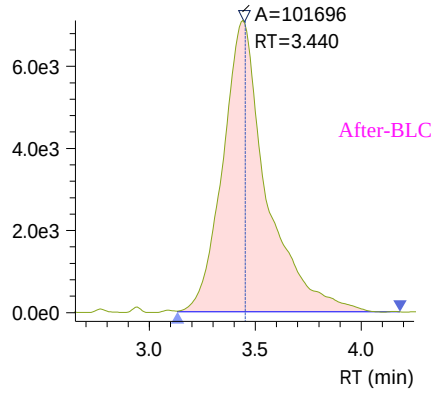
Perchlorate

Conc 10.1340
R#1 33.73 (35.24)

Q 99.00>83.00 (-) 2.10e4



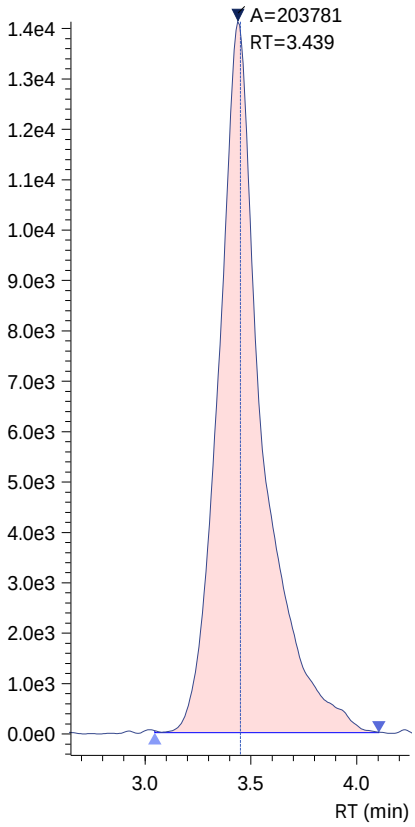
R1 101.00>85.00 (-) 7.12e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



Insight Report

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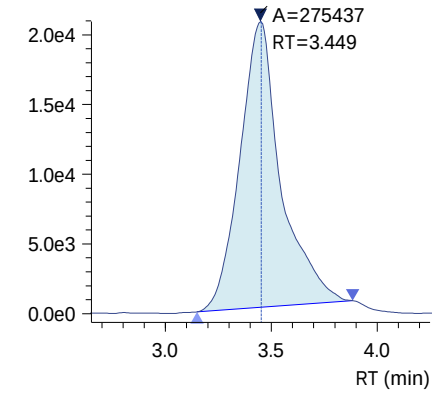
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

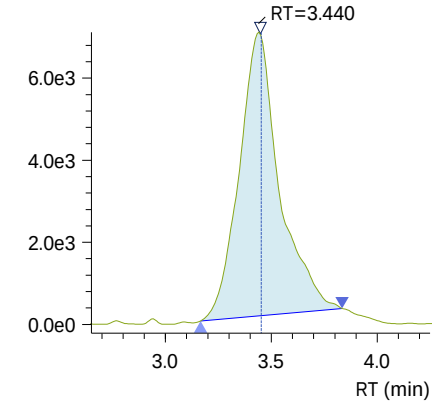
Perchlorate

Conc 10.3518
R#1 33.00 (35.24)

Q 99.00>83.00 (-) 2.10e4



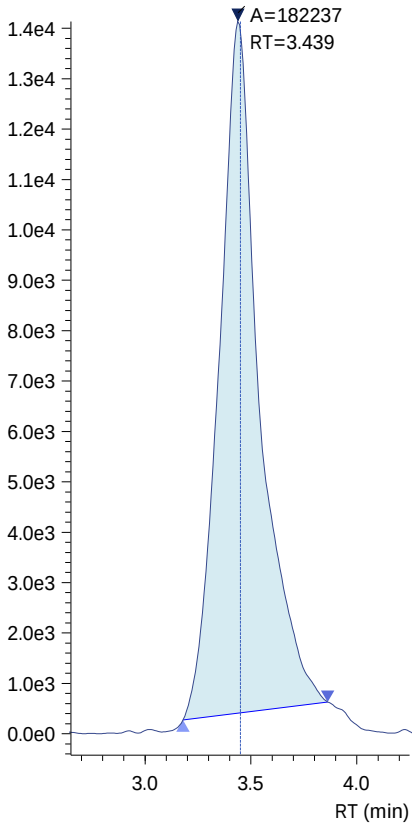
R1 101.00>85.00 (-) A=90906 7.12e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



Insight Report

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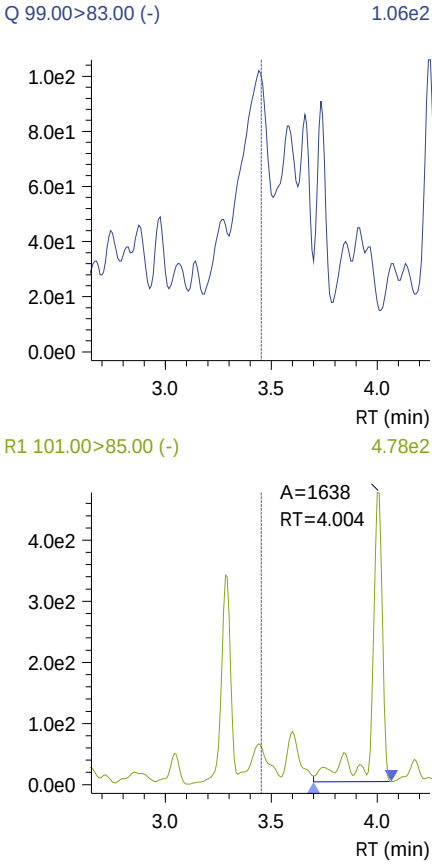
IB

Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.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)	----	----	204349	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.435	204349	204349	1.0000	ng/mL	----	----	

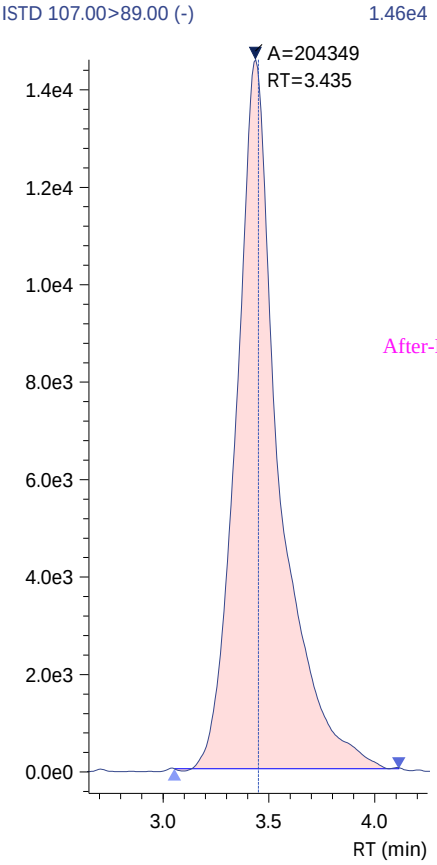
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

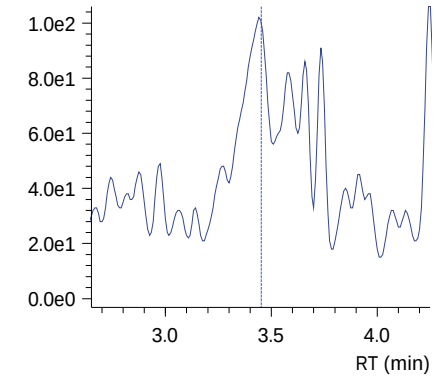
IB

Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

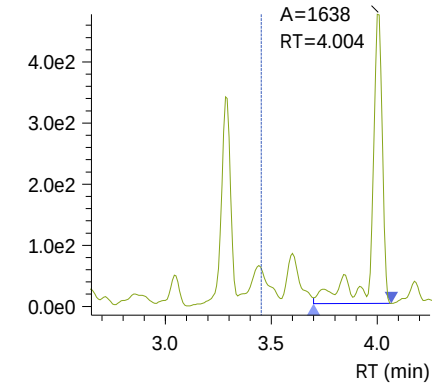
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.06e2



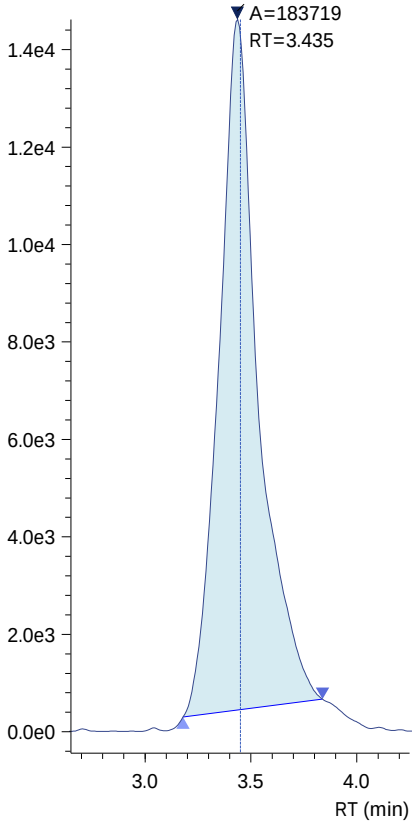
R1 101.00>85.00 (-) 4.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



HS24061196 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24061196

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Form 4 - ICPMS07_470915 ICSA
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Form 5B - ICPMS07_470725 PDS
Form 5B - ICPMS07_470915 PDS
Form 7 - HG04_470995 LCS
Form 7 - ICPMS07_470725 LCS
Form 8 - ICPMS07_470725 SD

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WorkOrder: HS24061196

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24061196 LHAAP 18 24 Final REV01

ALS WO# HS24061196

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August 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24061196**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 11 sample(s) on Jun 19, 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: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24061196

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061196-01	18CPTMW14_061824	Water		18-Jun-2024 07:10	19-Jun-2024 10:05	☐
HS24061196-02	18WW03_061824	Water		18-Jun-2024 08:00	19-Jun-2024 10:05	☐
HS24061196-03	CO8_061824	Water		18-Jun-2024 08:45	19-Jun-2024 10:05	☐
HS24061196-04	1824DPTMW04_061824	Water		18-Jun-2024 09:30	19-Jun-2024 10:05	☐
HS24061196-05	18WW24_061824	Water		18-Jun-2024 10:15	19-Jun-2024 10:05	☐
HS24061196-06	18WW24_061824_a	Water		18-Jun-2024 10:15	19-Jun-2024 10:05	☐
HS24061196-07	CO2_061824	Water		18-Jun-2024 11:00	19-Jun-2024 10:05	☐
HS24061196-08	MW13_061824	Water		18-Jun-2024 11:40	19-Jun-2024 10:05	☐
HS24061196-09	MW13_061824_a	Water		18-Jun-2024 11:40	19-Jun-2024 10:05	☐
HS24061196-10	CO6_061824	Water		18-Jun-2024 12:30	19-Jun-2024 10:05	☐
HS24061196-11	Trip Blank	Water	cg-041923-849	18-Jun-2024 00:00	19-Jun-2024 10:05	☐

Revision:1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24061196

Work Order Comments

- This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

- The analyses for Volatiles by method SW8260 were subcontracted to ALS Environmental in Middletown, PA. Final report attached.
- The analysis for Perchlorate was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213966

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 214374

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 214140

Sample ID: CO6_061824 (HS24061196-10MS)

- Magnesium, Failed on the MS but passed on the MSD and PDS.
- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium, Calcium, Iron, Manganese, Sodium.
- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference. Thallium.

Sample ID: CO6_061824 (HS24061196-10MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference. Thallium.

Sample ID: CO6_061824 (HS24061196-10PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. Barium, Manganese, Sodium.

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW14_061824
Collection Date: 18-Jun-2024 07:10

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.19**		**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 13:33
Surr: 2-Fluorobiphenyl	*80.9*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:33*
Surr: 4-Terphenyl-d14	*56.4*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:33*
Surr: Nitrobenzene-d5	*70.7*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:33*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0759**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:26
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:26
Arsenic	**0.00143**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Barium	**2.51**		**0.0380**	**0.0500**	**0.100**	**mg/L**	20	01-Jul-2024 11:44
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:26
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:26
Calcium	**331**		**0.680**	**1.00**	**10.0**	**mg/L**	20	01-Jul-2024 11:44
Chromium	**0.0234**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Cobalt	**0.00150**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	28-Jun-2024 20:26
Iron	**0.170**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:26
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:26
Magnesium	**88.6**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:26
Manganese	**0.0508**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Nickel	**0.00225**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Potassium	**5.98**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:26
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:26
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:26
Sodium	**682**		**0.280**	**1.00**	**4.00**	**mg/L**	20	01-Jul-2024 11:44
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:26
Vanadium	**0.00226**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
Zinc	**0.00510**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:26
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:41
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW03_061824
Collection Date: 18-Jun-2024 08:00

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	03-Jul-2024 13:50
Surr: 2-Fluorobiphenyl	*73.2*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:50*
Surr: 4-Terphenyl-d14	*71.7*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:50*
Surr: Nitrobenzene-d5	*69.3*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 13:50*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0108**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:29
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:29
Arsenic	**0.000633**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
Barium	**0.205**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:29
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:29
Calcium	**10.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:29
Chromium	**0.00522**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
Cobalt	0.000500	U	0.000100	0.000500	0.00500	mg/L	1	28-Jun-2024 20:29
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	28-Jun-2024 20:29
Iron	**7.81**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:29
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:29
Magnesium	**6.74**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:29
Manganese	**0.108**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
Nickel	**0.00115**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
Potassium	**2.12**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:29
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:29
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:29
Sodium	**118**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:29
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:29
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:29
Zinc	**0.00451**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:29
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:43
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO8_061824
Collection Date: 18-Jun-2024 08:45

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.022**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 14:08
Surr: 2-Fluorobiphenyl	*69.9*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:08*
Surr: 4-Terphenyl-d14	*63.8*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:08*
Surr: Nitrobenzene-d5	*65.3*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:08*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW04_061824
Collection Date: 18-Jun-2024 09:30

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.14**		**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 14:25
Surr: 2-Fluorobiphenyl	*77.8*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:25*
Surr: 4-Terphenyl-d14	*70.7*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:25*
Surr: Nitrobenzene-d5	*74.2*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:25*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW24_061824
Collection Date: 18-Jun-2024 10:15

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.287**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:31
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:31
Arsenic	**0.000649**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Barium	**0.0314**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Beryllium	**0.000346**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Jun-2024 20:31
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:31
Calcium	**4.74**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:31
Chromium	**0.000649**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Cobalt	**0.00273**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Copper	**0.00219**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Iron	**0.500**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:31
Lead	**0.000623**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Magnesium	**2.41**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:31
Manganese	**0.228**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Nickel	**0.0126**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Potassium	**1.57**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:31
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:31
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:31
Sodium	**52.5**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:31
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:31
Vanadium	**0.000815**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
Zinc	**0.0225**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:31
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:49
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW24_061824_a
Collection Date: 18-Jun-2024 10:15

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.336**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:34
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:34
Arsenic	**0.000625**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Barium	**0.0289**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Beryllium	**0.000287**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Jun-2024 20:34
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:34
Calcium	**4.41**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:34
Chromium	**0.000813**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Cobalt	**0.00259**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Copper	**0.00245**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Iron	**0.532**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:34
Lead	**0.000623**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Magnesium	**2.22**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:34
Manganese	**0.210**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Nickel	**0.0115**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Potassium	**1.47**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:34
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:34
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:34
Sodium	**48.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:34
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:34
Vanadium	**0.000869**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
Zinc	**0.0209**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:34
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:51
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO2_061824
Collection Date: 18-Jun-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-07
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	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW13_061824
Collection Date: 18-Jun-2024 11:40

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0589**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:36
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:36
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:36
Barium	**0.358**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:36
Cadmium	**0.000347**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Jun-2024 20:36
Calcium	**20.3**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:36
Chromium	**0.466**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Cobalt	**0.00457**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Copper	**0.0337**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Iron	**54.6**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:36
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:36
Magnesium	**10.1**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:36
Manganese	**1.01**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Nickel	**0.297**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Potassium	**3.45**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:36
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:36
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:36
Sodium	**77.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:36
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:36
Vanadium	**0.00116**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
Zinc	**0.0104**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:36
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:53
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW13_061824_a
Collection Date: 18-Jun-2024 11:40

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0604**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 20:39
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:39
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 20:39
Barium	**0.374**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:39
Cadmium	**0.000411**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Jun-2024 20:39
Calcium	**21.4**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 20:39
Chromium	**0.493**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Cobalt	**0.00493**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Copper	**0.0360**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Iron	**57.0**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:39
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 20:39
Magnesium	**10.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:39
Manganese	**1.08**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Nickel	**0.326**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Potassium	**3.66**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:39
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 20:39
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 20:39
Sodium	**82.3**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 20:39
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 20:39
Vanadium	**0.00126**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
Zinc	**0.0116**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 20:39
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:55
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO6_061824
Collection Date: 18-Jun-2024 12:30

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 26-Jun-2024		Analyst: JC
Aluminum	**0.0132**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	28-Jun-2024 19:50
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Jun-2024 19:50
Arsenic	**0.000633**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Barium	**0.641**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 19:50
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 19:50
Calcium	**23.7**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	28-Jun-2024 19:50
Chromium	**0.000710**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Cobalt	**0.00124**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	28-Jun-2024 19:50
Iron	**32.1**		**0.120**	**0.500**	**2.00**	**mg/L**	10	01-Jul-2024 11:32
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 19:50
Magnesium	**8.04**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 19:50
Manganese	**0.509**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Nickel	**0.00204**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
Potassium	**2.62**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 19:50
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	28-Jun-2024 19:50
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	28-Jun-2024 19:50
Sodium	**138**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	28-Jun-2024 19:50
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	28-Jun-2024 19:50
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Jun-2024 19:50
Zinc	**0.0151**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Jun-2024 19:50
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 17:56
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 18-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24061196
Lab ID:HS24061196-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	30-Jun-2024 19:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

Batch ID: 213966 **Start Date:** 23 Jun 2024 13:17 **End Date:** 23 Jun 2024 13:17
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061196-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061196-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061196-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061196-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 214140 **Start Date:** 26 Jun 2024 13:00 **End Date:** 26 Jun 2024 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061196-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-10		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214374 **Start Date:** 01 Jul 2024 09:30 **End Date:** 01 Jul 2024 09:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061196-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061196-10		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213966 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10		23 Jun 2024 13:17	03 Jul 2024 13:33	1
HS24061196-02	18WW03_061824	18 Jun 2024 08:00		23 Jun 2024 13:17	03 Jul 2024 13:50	1
HS24061196-03	CO8_061824	18 Jun 2024 08:45		23 Jun 2024 13:17	03 Jul 2024 14:08	1
HS24061196-04	1824DPTMW04_061824	18 Jun 2024 09:30		23 Jun 2024 13:17	03 Jul 2024 14:25	1
Batch ID: 214140 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10		26 Jun 2024 13:00	28 Jun 2024 20:26	1
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10		26 Jun 2024 13:00	01 Jul 2024 11:44	20
HS24061196-02	18WW03_061824	18 Jun 2024 08:00		26 Jun 2024 13:00	28 Jun 2024 20:29	1
HS24061196-05	18WW24_061824	18 Jun 2024 10:15		26 Jun 2024 13:00	28 Jun 2024 20:31	1
HS24061196-06	18WW24_061824_a	18 Jun 2024 10:15		26 Jun 2024 13:00	28 Jun 2024 20:34	1
HS24061196-08	MW13_061824	18 Jun 2024 11:40		26 Jun 2024 13:00	28 Jun 2024 20:36	1
HS24061196-09	MW13_061824_a	18 Jun 2024 11:40		26 Jun 2024 13:00	28 Jun 2024 20:39	1
HS24061196-10	CO6_061824	18 Jun 2024 12:30		26 Jun 2024 13:00	28 Jun 2024 19:50	1
HS24061196-10	CO6_061824	18 Jun 2024 12:30		26 Jun 2024 13:00	01 Jul 2024 11:32	10
Batch ID: 214374 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10		01 Jul 2024 09:30	01 Jul 2024 17:41	1
HS24061196-02	18WW03_061824	18 Jun 2024 08:00		01 Jul 2024 09:30	01 Jul 2024 17:43	1
HS24061196-05	18WW24_061824	18 Jun 2024 10:15		01 Jul 2024 09:30	01 Jul 2024 17:49	1
HS24061196-06	18WW24_061824_a	18 Jun 2024 10:15		01 Jul 2024 09:30	01 Jul 2024 17:51	1
HS24061196-08	MW13_061824	18 Jun 2024 11:40		01 Jul 2024 09:30	01 Jul 2024 17:53	1
HS24061196-09	MW13_061824_a	18 Jun 2024 11:40		01 Jul 2024 09:30	01 Jul 2024 17:55	1
HS24061196-10	CO6_061824	18 Jun 2024 12:30		01 Jul 2024 09:30	01 Jul 2024 17:56	1
Batch ID: R470524 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10			26 Jun 2024 15:58	1
HS24061196-02	18WW03_061824	18 Jun 2024 08:00			26 Jun 2024 15:58	1
HS24061196-03	CO8_061824	18 Jun 2024 08:45			26 Jun 2024 15:58	1
HS24061196-04	1824DPTMW04_061824	18 Jun 2024 09:30			26 Jun 2024 15:58	1
HS24061196-05	18WW24_061824	18 Jun 2024 10:15			26 Jun 2024 15:58	1
HS24061196-06	18WW24_061824_a	18 Jun 2024 10:15			26 Jun 2024 15:58	1
HS24061196-07	CO2_061824	18 Jun 2024 11:00			26 Jun 2024 15:58	1
HS24061196-08	MW13_061824	18 Jun 2024 11:40			26 Jun 2024 15:58	1
HS24061196-09	MW13_061824_a	18 Jun 2024 11:40			26 Jun 2024 15:58	1
HS24061196-10	CO6_061824	18 Jun 2024 12:30			26 Jun 2024 15:58	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470880 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24061196-01	18CPTMW14_061824	18 Jun 2024 07:10			30 Jun 2024 19:11	1
HS24061196-02	18WW03_061824	18 Jun 2024 08:00			30 Jun 2024 19:11	1
HS24061196-03	CO8_061824	18 Jun 2024 08:45			30 Jun 2024 19:11	1
HS24061196-04	1824DPTMW04_061824	18 Jun 2024 09:30			30 Jun 2024 19:11	1
HS24061196-05	18WW24_061824	18 Jun 2024 10:15			30 Jun 2024 19:11	1
HS24061196-06	18WW24_061824_a	18 Jun 2024 10:15			30 Jun 2024 19:11	1
HS24061196-07	CO2_061824	18 Jun 2024 11:00			30 Jun 2024 19:11	1
HS24061196-08	MW13_061824	18 Jun 2024 11:40			30 Jun 2024 19:11	1
HS24061196-09	MW13_061824_a	18 Jun 2024 11:40			30 Jun 2024 19:11	1
HS24061196-10	CO6_061824	18 Jun 2024 12:30			30 Jun 2024 19:11	1
HS24061196-11	Trip Blank	18 Jun 2024 00:00			30 Jun 2024 19:11	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:45**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108622** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00200	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-214140** Units: **mg/L** Analysis Date: **28-Jun-2024 19:47**
Client ID: Run ID: **ICPMS07_470725** SeqNo: **8108623** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1056	0.0100	0.1	0	106	84 - 117				
Antimony	0.0496	0.00500	0.05	0	99.2	85 - 117				
Arsenic	0.04777	0.00500	0.05	0	95.5	84 - 116				
Barium	0.04654	0.00500	0.05	0	93.1	86 - 114				
Beryllium	0.04656	0.00200	0.05	0	93.1	83 - 121				
Cadmium	0.04692	0.00200	0.05	0	93.8	87 - 115				
Calcium	4.991	0.500	5	0	99.8	87 - 118				
Chromium	0.04745	0.00500	0.05	0	94.9	85 - 116				
Cobalt	0.04758	0.00500	0.05	0	95.2	86 - 115				
Copper	0.0479	0.00500	0.05	0	95.8	85 - 118				
Iron	4.866	0.200	5	0	97.3	87 - 118				
Lead	0.04589	0.00500	0.05	0	91.8	88 - 115				
Magnesium	4.93	0.200	5	0	98.6	83 - 118				
Manganese	0.04827	0.00500	0.05	0	96.5	87 - 115				
Nickel	0.04813	0.00500	0.05	0	96.3	85 - 117				
Potassium	4.876	0.200	5	0	97.5	87 - 115				
Selenium	0.0482	0.00500	0.05	0	96.4	80 - 120				
Silver	0.04791	0.00500	0.05	0	95.8	85 - 116				
Sodium	4.861	0.200	5	0	97.2	85 - 117				
Thallium	0.04203	0.00200	0.05	0	84.1	82 - 116				
Vanadium	0.04702	0.00500	0.05	0	94.0	86 - 115				
Zinc	0.04791	0.00500	0.05	0	95.8	83 - 119				

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument:** ICPMS07 **Method:** METALS BY ICPMS BY SW6020A

MS Sample ID: **HS24061196-10MS** Units: **mg/L** Analysis Date: **28-Jun-2024 19:55**
Client ID: **CO6_061824** Run ID: **ICPMS07_470725** SeqNo: **8108626** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1047	0.0100	0.1	0.01321	91.5	84 - 117				
Antimony	0.04675	0.00500	0.05	0.000125	93.2	85 - 117				
Arsenic	0.04648	0.00500	0.05	0.000633	91.7	84 - 116				
Barium	0.6684	0.00500	0.05	0.6415	53.8	86 - 114				SO
Beryllium	0.04185	0.00200	0.05	0.000025	83.6	83 - 121				
Cadmium	0.04557	0.00200	0.05	0.000134	90.9	87 - 115				
Calcium	27.42	0.500	5	23.67	75.0	87 - 118				SO
Chromium	0.04454	0.00500	0.05	0.00071	87.7	85 - 116				
Cobalt	0.04518	0.00500	0.05	0.001239	87.9	86 - 115				
Copper	0.04654	0.00500	0.05	0.000738	91.6	85 - 118				
Iron	34.79	0.200	5	31.81	59.5	87 - 118				SO
Lead	0.04493	0.00500	0.05	0.000162	89.5	88 - 115				
Magnesium	12.18	0.200	5	8.035	82.9	83 - 118				S
Manganese	0.527	0.00500	0.05	0.5086	36.8	87 - 115				SO
Nickel	0.04609	0.00500	0.05	0.002044	88.1	85 - 117				
Potassium	7.074	0.200	5	2.622	89.0	87 - 115				
Selenium	0.04554	0.00500	0.05	0.000235	90.6	80 - 120				
Silver	0.04496	0.00500	0.05	0.000019	89.9	85 - 116				
Sodium	136.2	0.200	5	138.3	-42.3	85 - 117				SO
Thallium	0.04021	0.00200	0.05	0.000044	80.3	82 - 116				S
Vanadium	0.0445	0.00500	0.05	-0.000436	89.9	86 - 115				
Zinc	0.05782	0.00500	0.05	0.01508	85.5	83 - 119				

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument:** ICPMS07 **Method:** METALS BY ICPMS BY SW6020A

MSD Sample ID: **HS24061196-10MSD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:57**
Client ID: **CO6_061824** Run ID: **ICPMS07_470725** SeqNo: **8108627** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1096	0.0100	0.1	0.01321	96.4	84 - 117	0.1047	4.58	20	
Antimony	0.04833	0.00500	0.05	0.000125	96.4	85 - 117	0.04675	3.33	20	
Arsenic	0.04732	0.00500	0.05	0.000633	93.4	84 - 116	0.04648	1.8	20	
Barium	0.6672	0.00500	0.05	0.6415	51.4	86 - 114	0.6684	0.179	20	SO
Beryllium	0.04283	0.00200	0.05	0.000025	85.6	83 - 121	0.04185	2.33	20	
Cadmium	0.04597	0.00200	0.05	0.000134	91.7	87 - 115	0.04557	0.87	20	
Calcium	28.26	0.500	5	23.67	91.9	87 - 118	27.42	3.02	20	O
Chromium	0.04651	0.00500	0.05	0.00071	91.6	85 - 116	0.04454	4.33	20	
Cobalt	0.047	0.00500	0.05	0.001239	91.5	86 - 115	0.04518	3.96	20	
Copper	0.04868	0.00500	0.05	0.000738	95.9	85 - 118	0.04654	4.51	20	
Iron	35.89	0.200	5	31.81	81.6	87 - 118	34.79	3.13	20	SO
Lead	0.0449	0.00500	0.05	0.000162	89.5	88 - 115	0.04493	0.0534	20	
Magnesium	12.66	0.200	5	8.035	92.5	83 - 118	12.18	3.86	20	
Manganese	0.5434	0.00500	0.05	0.5086	69.6	87 - 115	0.527	3.07	20	SO
Nickel	0.04818	0.00500	0.05	0.002044	92.3	85 - 117	0.04609	4.44	20	
Potassium	7.325	0.200	5	2.622	94.1	87 - 115	7.074	3.5	20	
Selenium	0.04714	0.00500	0.05	0.000235	93.8	80 - 120	0.04554	3.45	20	
Silver	0.04493	0.00500	0.05	0.000019	89.8	85 - 116	0.04496	0.0667	20	
Sodium	141.9	0.200	5	138.3	71.2	85 - 117	136.2	4.08	20	SO
Thallium	0.04049	0.00200	0.05	0.000044	80.9	82 - 116	0.04021	0.694	20	S
Vanadium	0.04584	0.00500	0.05	-0.000436	92.6	86 - 115	0.0445	2.98	20	
Zinc	0.05896	0.00500	0.05	0.01508	87.8	83 - 119	0.05782	1.95	20	

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument:** ICPMS07 **Method:** METALS BY ICPMS BY SW6020A

PDS Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **28-Jun-2024 20:00**
Client ID: **CO6_061824** Run ID: **ICPMS07_470725** SeqNo: **8108628** PrepDate: **26-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1029	0.0100	0.1	0.01321	89.7	80 - 120				
Antimony	0.0918	0.00500	0.1	0.000125	91.7	80 - 120				
Arsenic	0.093	0.00500	0.1	0.000633	92.4	80 - 120				
Barium	0.7017	0.00500	0.1	0.6415	60.2	80 - 120				SO
Beryllium	0.08428	0.00200	0.1	0.000025	84.3	80 - 120				
Cadmium	0.09034	0.00200	0.1	0.000134	90.2	80 - 120				
Calcium	31.7	0.500	10	23.67	80.3	80 - 120				
Chromium	0.0899	0.00500	0.1	0.00071	89.2	80 - 120				
Cobalt	0.09192	0.00500	0.1	0.001239	90.7	80 - 120				
Copper	0.08952	0.00500	0.1	0.000738	88.8	80 - 120				
Lead	0.08967	0.00500	0.1	0.000162	89.5	80 - 120				
Magnesium	16.9	0.200	10	8.035	88.6	80 - 120				
Manganese	0.5771	0.00500	0.1	0.5086	68.5	80 - 120				SO
Nickel	0.09226	0.00500	0.1	0.002044	90.2	80 - 120				
Potassium	11.8	0.200	10	2.622	91.8	80 - 120				
Selenium	0.09238	0.00500	0.1	0.000235	92.1	80 - 120				
Silver	0.09255	0.00500	0.1	0.000019	92.5	80 - 120				
Sodium	141.9	0.200	10	138.3	35.4	80 - 120				SO
Thallium	0.09236	0.00200	0.1	0.000044	92.3	80 - 120				
Vanadium	0.09037	0.00500	0.1	-0.000436	90.8	80 - 120				
Zinc	0.1018	0.00500	0.1	0.01508	86.7	80 - 120				

PDS Sample ID: **HS24061196-10PDS** Units: **mg/L** Analysis Date: **01-Jul-2024 11:36**
Client ID: **CO6_061824** Run ID: **ICPMS07_470915** SeqNo: **8111150** PrepDate: **26-Jun-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	131.8	2.00	100	32.06	99.8	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214140 (0) **Instrument:** ICPMS07 **Method:** METALS BY ICPMS BY SW6020A

SD Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **28-Jun-2024 19:52**
Client ID: **CO6_061824** Run ID: **ICPMS07_470725** SeqNo: **8108625** PrepDate: **26-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.01321	0	10	U
Antimony	0.00625	0.0250					0.000125	0	10	U
Arsenic	0.00625	0.0250					0.000633	0	10	U
Barium	0.6208	0.0250					0.6415	3.23	10	
Beryllium	0.00250	0.0100					0.000025	0	10	U
Cadmium	0.00250	0.0100					0.000134	0	10	U
Calcium	23.17	2.50					23.67	2.09	10	
Chromium	0.00625	0.0250					0.00071	0	10	U
Cobalt	0.00133	0.0250					0.001239	0	10	J
Copper	0.0100	0.0250					0.000738	0	10	U
Lead	0.00625	0.0250					0.000162	0	10	U
Magnesium	7.959	1.00					8.035	0.953	10	
Manganese	0.5008	0.0250					0.5086	1.53	10	
Nickel	0.00625	0.0250					0.002044	0	10	U
Potassium	2.513	1.00					2.622	4.14	10	
Selenium	0.00625	0.0250					0.000235	0	10	U
Silver	0.00250	0.0250					0.000019	0	10	U
Sodium	137.7	1.00					138.3	0.452	10	
Thallium	0.00250	0.0100					0.000044	0	10	U
Vanadium	0.00625	0.0250					-0.000436	0	10	U
Zinc	0.01415	0.0250					0.01508	0	10	J

SD Sample ID: **HS24061196-10SD** Units: **mg/L** Analysis Date: **01-Jul-2024 11:34**
Client ID: **CO6_061824** Run ID: **ICPMS07_470915** SeqNo: **8111149** PrepDate: **26-Jun-2024** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	32.05	10.0					32.06	0.0435	10	

The following samples were analyzed in this batch: HS24061196-01 HS24061196-02 HS24061196-05 HS24061196-06 HS24061196-08 HS24061196-09 HS24061196-10

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 214374 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:38**
Client ID: Run ID: **HG04_470995** SeqNo: **8117742** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:39**
Client ID: Run ID: **HG04_470995** SeqNo: **8117743** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00460	0.000200	0.005	0	92.0	82 - 119				

MS Sample ID: **HS24061313-01MS** Units: **mg/L** Analysis Date: **01-Jul-2024 18:13**
Client ID: Run ID: **HG04_470995** SeqNo: **8117760** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00463	0.000200	0.005	0	92.6	82 - 119				

MSD Sample ID: **HS24061313-01MSD** Units: **mg/L** Analysis Date: **01-Jul-2024 18:15**
Client ID: Run ID: **HG04_470995** SeqNo: **8117761** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00444	0.000200	0.005	0	88.8	82 - 119	0.004630	4.19	20	

The following samples were analyzed in this batch:

HS24061196-01	HS24061196-02	HS24061196-05	HS24061196-06
HS24061196-08	HS24061196-09	HS24061196-10	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061196

QC BATCH REPORT

Batch ID: 213966 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 12:40**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123188** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.05731*	*0*	*0.08*	*0*	*71.6*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.04527*	*0*	*0.08*	*0*	*56.6*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.05426*	*0*	*0.08*	*0*	*67.8*	*40 - 140*				

LCS Sample ID: **LCS-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 12:58**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123189** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05215	0.030	0.08	0	65.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.05954*	*0*	*0.08*	*0*	*74.4*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.05191*	*0*	*0.08*	*0*	*64.9*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0559*	*0*	*0.08*	*0*	*69.9*	*40 - 140*				

LCSD Sample ID: **LCSD-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 13:15**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123190** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05072	0.030	0.08	0	63.4	40 - 140	0.05215	2.77	20	
Surr: 2-Fluorobiphenyl	*0.06074*	*0*	*0.08*	*0*	*75.9*	*40 - 140*	*0.05954*	*2*	*20*	
Surr: 4-Terphenyl-d14	*0.05107*	*0*	*0.08*	*0*	*63.8*	*40 - 140*	*0.05191*	*1.64*	*20*	
Surr: Nitrobenzene-d5	*0.0564*	*0*	*0.08*	*0*	*70.5*	*40 - 140*	*0.0559*	*0.887*	*20*	

The following samples were analyzed in this batch: HS24061196-01 HS24061196-02 HS24061196-03 HS24061196-04

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24061196**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24061196 **Date/Time Received:** 19-Jun-2024 10:05

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Belinda Gomez (eSignature) 19-Jun-2024 18:52 (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 ☐	2 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):	2.6uc/2.7c	ir31
Cooler(s)/Kit(s):	51037	
Date/Time sample(s) sent to storage:	6/19/2024 1853	

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:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: of

Project/Phase No: JVPCBH.0001

COC Number(1):

UMS Number:

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

HS24061196

Bhate Environmental Associates, Inc.

LHAAP 18 24

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE												
18PTmw14_061824	18 Jun 2024	0710	-	N		WG	6	X	X	X	X												
18mw03_061824	18 Jun 2024	0800	-	N		WG	6	X	X	X	X												
Co8_061824	18 Jun 2024	0845	-	N		WG	5	X	X		X												
1824DPTmw04_061824	18 Jun 2024	0930		N		WG	5	X	X		X												
18mw24_061824	18 Jun 2024	1015		N		WG	5	X	X	X													
18mw24_061824_a	18 Jun 2024	1015	-	FD		WG	5	X	X	X													
Co2_061824	18 Jun 2024	1100	-	N		WG	4	X	X														
mw13_061824	18 Jun 2024	1140	-	N		WG	5	X	X	X													
mw13_061824_a	18 Jun 2024	1140	-	FD		WG	5	X	X	X													
Co6_061824	18 Jun 2024	1230	-	N		WG	5	X	X	X													
Co6_061824_ms	18 Jun 2024	1230	-	MS		WG	5	X	X	X													

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished by (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	6/18/24	1700	1.		
2.			2.		1015
3.			3. SM	06/19/24	

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment:

Fed Ex Airbill Number:

Analytical Lab: ALS 10450 Stanciff, Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wassey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Cooler # 51037 Temp 1/c 2.4, 3.1
2.6 adjusted

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Page: of

Project/Phase No: JVPCIBH.0001

COC Number(1):

LIMS Number:

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
Sub_01824_MS D	18-Jun-2024	1230	-	SD		WG	5	X	X	X										
TRIP BLANK	18-Jun-2024		-	TB		W	2	X												
			-																	
			-																	
			-																	
			-																	
			-		1															
			-																	
			-																	
			-																	
			-																	

Sample Analysis Requested (5)

Quality Assurance Samples (6)

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Bees	6/18/24	1400	1.		
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment:

Fed Ex Airbill Number:

Analytical Lab: ALS 10450 Stanciff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wiedorn Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

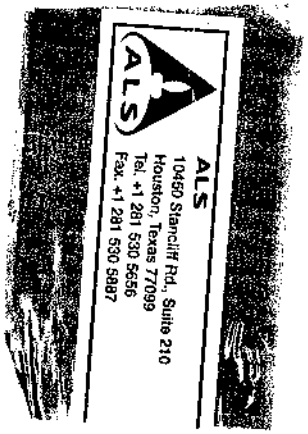
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

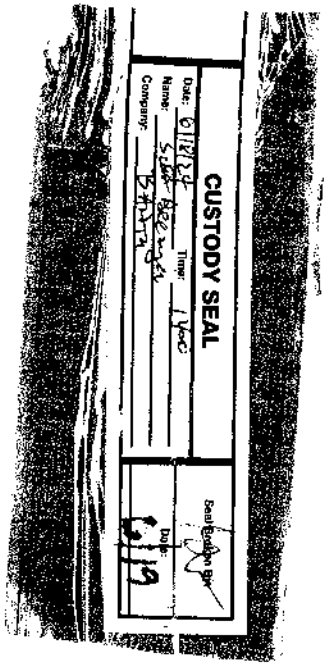
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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6/19/24







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June 26, 2024 Service Request No:E2400716

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24061196

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400716.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

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Client:	ALS Environmental - US	**Service Request No.:**	E2400716
Project:	HS24061196	**Date Received:**	06/19/24
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

Ten samples were received for analysis at ALS Environmental in Houston on 06/19/24.

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:

EQ2400345: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

Samples E2400716-003 ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run.

The results for the DMS, EQ2400345-06, recovered above the acceptance criteria due to matrix interference.

This report has been revised on 06/27/2024 as the case narrative from the lab had been missed.

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:**E2400716
Project: HS24061196

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400716-001	18PTMW14_061824	6/18/2024	0710
E2400716-002	18WW03_061824	6/18/2024	0800
E2400716-003	CO8_061824	6/18/2024	0845
E2400716-004	1824DPTMW04_061824	6/18/2024	0930
E2400716-005	18WW24_061824	6/18/2024	1015
E2400716-006	18WW24_061824_a	6/18/2024	1015
E2400716-007	CO2_061824	6/18/2024	1100
E2400716-008	MW13_061824	6/18/2024	1140
E2400716-009	MW13_061824_a	6/18/2024	1140
E2400716-010	CO6_061824	6/18/2024	1230

Service Request Summary

Folder #: **E2400716**
Client Name: ALS Environmental - US
Project Name: HS24061196
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

12 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400716-001	18PTMW14_061824	Water	06/18/24 0710	**IV**
E2400716-002	18WW03_061824	Water	06/18/24 0800	**IV**
E2400716-003	CO8_061824	Water	06/18/24 0845	**IV**
E2400716-004	1824DPTMW04_061824	Water	06/18/24 0930	**IV**
E2400716-005	18WW24_061824	Water	06/18/24 1015	**IV**
E2400716-006	18WW24_061824_a	Water	06/18/24 1015	**IV**
E2400716-007	CO2_061824	Water	06/18/24 1100	**IV**
E2400716-008	MW13_061824	Water	06/18/24 1140	**IV**
E2400716-009	MW13_061824_a	Water	06/18/24 1140	**IV**
E2400716-010	CO6_061824	Water	06/18/24 1230	**IV**

Service Request Summary

Folder #: **E2400716**
Client Name: ALS Environmental - US
Project Name: HS24061196
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

12 120 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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400716 5
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26089**

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:	HS24061196
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061196-01**	**18PTMW14_061824**	**Water**	**18 Jun 2024 07:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
2.	**HS24061196-02**	**18WW03_061824**	**Water**	**18 Jun 2024 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
3.	**HS24061196-03**	**CO8_061824**	**Water**	**18 Jun 2024 08:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
4.	**HS24061196-04**	**1824DPTMW04_061824**	**Water**	**18 Jun 2024 09:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
5.	**HS24061196-05**	**18WW24_061824**	**Water**	**18 Jun 2024 10:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
6.	**HS24061196-06**	**18WW24_061824_a**	**Water**	**18 Jun 2024 10:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
7.	**HS24061196-07**	**CO2_061824**	**Water**	**18 Jun 2024 11:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
8.	**HS24061196-08**	**MW13_061824**	**Water**	**18 Jun 2024 11:40**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26089**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
9.	**HS24061196-09**	**MW13_061824_a**	**Water**	**18 Jun 2024 11:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
10.	**HS24061196-10**	**CO6_061824**	**Water**	**18 Jun 2024 12:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 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: 6/20/24 1146

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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5

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Sample Receipt Checklist

Work Order ID: HS24061196 **Date/Time received:** 19 Jun 2024 10:05

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 19 Jun 2024 18:52 (Date/Time) Belinda Gomez (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	2 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): 2.6uc/2.7c ir31

Cooler Information: 1 Cooler(s), 51037

Date/Time sample(s) sent to storage: 6/19/2024 1853

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#: 440573 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 13:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400716-001	18PTMW14_061824	.01	6850/ClO4 DOD			Water	10mL	
2	E2400716-002	18WW03_061824	.01	6850/ClO4 DOD			Water	10mL	
3	E2400716-003	CO8_061824	.01	6850/ClO4 DOD			Water	10mL	
4	E2400716-004	1824DPTMW04_061824	.01	6850/ClO4 DOD			Water	10mL	
5	E2400716-005	18WW24_061824	.01	6850/ClO4 DOD			Water	10mL	
6	E2400716-006	18WW24_061824_a	.01	6850/ClO4 DOD			Water	10mL	
7	E2400716-007	CO2_061824	.01	6850/ClO4 DOD			Water	10mL	
8	E2400716-008	MW13_061824	.01	6850/ClO4 DOD			Water	10mL	
9	E2400716-009	MW13_061824_a	.01	6850/ClO4 DOD			Water	10mL	
10	E2400716-010	CO6_061824	.01	6850/ClO4 DOD			Water	10mL	
11	E2400721-001	LGAC-INF-061724	.05	6850/ClO4			Water	10mL	
12	E2400721-002	FBR-INF-061724	.05	6850/ClO4			Water	10mL	
13	E2400721-003	FBR-EFF-061724	.01	6850/ClO4			Water	10mL	
14	EQ2400345-01	MB		6850/ClO4			Liquid	10mL	
15	EQ2400345-02	LCS		6850/ClO4			Liquid	10mL	
16	EQ2400345-03	DLCS		6850/ClO4			Liquid	10mL	
17	EQ2400345-04	ICS		6850/ClO4			Liquid	10mL	
18	EQ2400345-05	CO6_061824 MS	.01	6850/ClO4 DOD			Liquid	10mL	
19	EQ2400345-06	CO6_061824 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 233554 Logbook Ref: Perchlorate (2nd Source) Expires On: 08/05/2024

E2400716-004 100.00µL

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400345-02 10.00µL EQ2400345-02 10.00µL EQ2400345-03 10.00µL EQ2400345-03 10.00µL EQ2400345-04 10.00µL EQ2400345-04 10.00µL
EQ2400345-05 10.00µL EQ2400345-06 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400345-04 20.00µL EQ2400345-04 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400716-001 100.00µL E2400716-002 100.00µL E2400716-003 100.00µL E2400716-004 100.00µL E2400716-005 100.00µL E2400716-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440573 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 13:00

E2400716-007	100.00µL	E2400716-008	100.00µL	E2400716-009	100.00µL	E2400716-010	100.00µL	E2400721-001	100.00µL	E2400721-002	100.00µL
E2400721-003	100.00µL	EQ2400345-01	100.00µL	EQ2400345-01	100.00µL	EQ2400345-02	100.00µL	EQ2400345-02	100.00µL	EQ2400345-03	100.00µL
EQ2400345-03	100.00µL	EQ2400345-04	100.00µL	EQ2400345-04	100.00µL	EQ2400345-05	100.00µL	EQ2400345-06	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: 6/24/24 13:00
Finished: 6/24/24 14:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 0710
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18PTMW14_061824	**Units:**	µg/L
Lab Code:	E2400716-001	**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	**788**		10.0	5.00	2.50	100	6/24/24	6/25/24 15:07	440573	845520	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 0800
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18WW03_061824	**Units:**	µg/L
Lab Code:	E2400716-002	**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	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 16:43	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 0845
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO8_061824	**Units:**	µg/L
Lab Code:	E2400716-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	1.00	0.500	0.250	10	6/24/24	6/25/24 15:12	440573	845520	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 0930
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	1824DPTMW04_061824	**Units:**	µg/L
Lab Code:	E2400716-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**16.6**		1.00	0.500	0.250	10	6/24/24	6/25/24 15:18	440573	845520	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1015
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18WW24_061824	**Units:**	µg/L
Lab Code:	E2400716-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:11	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1015
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18WW24_061824_a	**Units:**	µg/L
Lab Code:	E2400716-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:16	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1100
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO2_061824	**Units:**	µg/L
Lab Code:	E2400716-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:22	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1140
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	MW13_061824	**Units:**	µg/L
Lab Code:	E2400716-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:27	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1140
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	MW13_061824_a	**Units:**	µg/L
Lab Code:	E2400716-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:33	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1230
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO6_061824	**Units:**	µg/L
Lab Code:	E2400716-010	**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	**0.118**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:38	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400345-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/24/24	6/24/24 14:08	440573	845518	

Accuracy & Precision

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QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Analyzed:**	06/24/24
Sample Matrix:	Water	**Date Extracted:**	06/24/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845518

	Lab Control Sample EQ2400345-02			Duplicate Lab Control Sample EQ2400345-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.115	0.100	115	0.112	0.100	112	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400345-02	**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	**0.115**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 14:14	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400345-03	**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	**0.112**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 14:19	440573	845518	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	06/18/24
Sample Matrix:	Water	**Date Received:**	06/19/24
		Date Analyzed:	06/24/24
		Date Extracted:	06/24/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	CO6_061824	**Units:**	ug/L
Lab Code:	E2400716-010	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400345-05			Duplicate Matrix Spike EQ2400345-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.224	0.100	106	0.246	0.100	128 *	84-119	9	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1230
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO6_061824	**Units:**	µg/L
Lab Code:	EQ2400345-05	**Basis:**	NA
Run Type:	Matrix Spike		

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	**0.224**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:44	440573	845518	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400716
Project:	HS24061196	**Date Collected:**	6/18/24 1230
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO6_061824	**Units:**	µg/L
Lab Code:	EQ2400345-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

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	**0.246**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 17:49	440573	845518	

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24061196
Workorder 3366027
Report ID 334021 on 6/30/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project HS24061196
Workorder 3366027

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366027001	HS24061196-01	Ground Water	06/18/2024 07:10	06/26/2024 09:36	CBC	Collected By Client
3366027002	HS24061196-02	Ground Water	06/18/2024 08:00	06/26/2024 09:36	CBC	Collected By Client
3366027003	HS24061196-03	Ground Water	06/18/2024 08:45	06/26/2024 09:36	CBC	Collected By Client
3366027004	HS24061196-04	Ground Water	06/18/2024 09:30	06/26/2024 09:36	CBC	Collected By Client
3366027005	HS24061196-05	Ground Water	06/18/2024 10:15	06/26/2024 09:36	CBC	Collected By Client
3366027006	HS24061196-06	Ground Water	06/18/2024 10:15	06/26/2024 09:36	CBC	Collected By Client
3366027007	HS24061196-07	Ground Water	06/18/2024 11:00	06/26/2024 09:36	CBC	Collected By Client
3366027008	HS24061196-08	Ground Water	06/18/2024 11:40	06/26/2024 09:36	CBC	Collected By Client
3366027009	HS24061196-09	Ground Water	06/18/2024 11:40	06/26/2024 09:36	CBC	Collected By Client
3366027010	HS24061196-10	Ground Water	06/18/2024 12:30	06/26/2024 09:36	CBC	Collected By Client
3366027011	HS24061196-11	Ground Water	06/18/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Project HS24061196
Workorder 3366027

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project HS24061196
Workorder 3366027

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

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