LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 43

2023

Bate Stamp Numbers
01212675 – 01212820

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2023

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

VOLUME 43

2023

A.	Title:	Report (Cont'd) – Appendix G Level IV DoD to Quarterly Evaluation Report, 2nd Quarter (April–June) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	December 21, 2023
	Bate Stamp:	01212675–01212820

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

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Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.819	(1.000)	780826	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	313326	43.4411	43.44
3 Chloromethane	50	1.295	1.303	(0.269)	478723	40.3986	40.39
5 Vinyl Chloride	62	1.374	1.382	(0.285)	368340	44.5978	44.59
6 Bromomethane	94	1.618	1.614	(0.336)	232986	55.0399	55.03
7 Chloroethane	64	1.696	1.700	(0.352)	239922	43.1235	43.12
8 Trichlorofluoromethane	101	1.895	1.903	(0.394)	416947	43.9550	43.95
9 Acrolein	56	2.263	2.270	(0.470)	36231	87.4197	87.41
10 Acetone	43	2.409	2.416	(0.500)	256579	95.4315	95.43
11 1,1-Dichloroethene	96	2.334	2.341	(0.485)	257583	43.4598	43.45
15 Iodomethane	142	2.469	2.472	(0.513)	390544	85.8965	85.89
16 Acrylonitrile	53	3.065	3.072	(0.636)	264231	91.2502	91.25
17 Methylene Chloride	84	2.795	2.799	(0.580)	325441	45.6146	45.61
18 Methyl tert-butyl ether	73	3.080	3.087	(0.640)	820662	45.1527	45.15
19 Carbon Disulfide	76	2.521	2.525	(0.524)	1475776	93.1400	93.13
20 trans-1,2-Dichloroethene	96	3.057	3.065	(0.635)	292795	45.4251	45.42
21 Vinyl Acetate	43	3.605	3.616	(0.749)	1831639	93.2206	93.22
22 1,1-Dichloroethane	63	3.515	3.522	(0.730)	503967	41.1420	41.14
24 2-Butanone	43	4.264	4.272	(0.886)	310116	87.1102	87.11
26 2,2-Dichloropropane	77	4.182	4.189	(0.868)	371756	45.9347	45.93
27 cis-1,2-Dichloroethene	96	4.197	4.204	(0.872)	341415	44.2752	44.27

28	Chloroform	83	4.572	4.579 (0.949)	560655	43.9760	43.97
29	Bromochloromethane	128	4.470	4.474 (0.928)	193817	44.9336	44.93

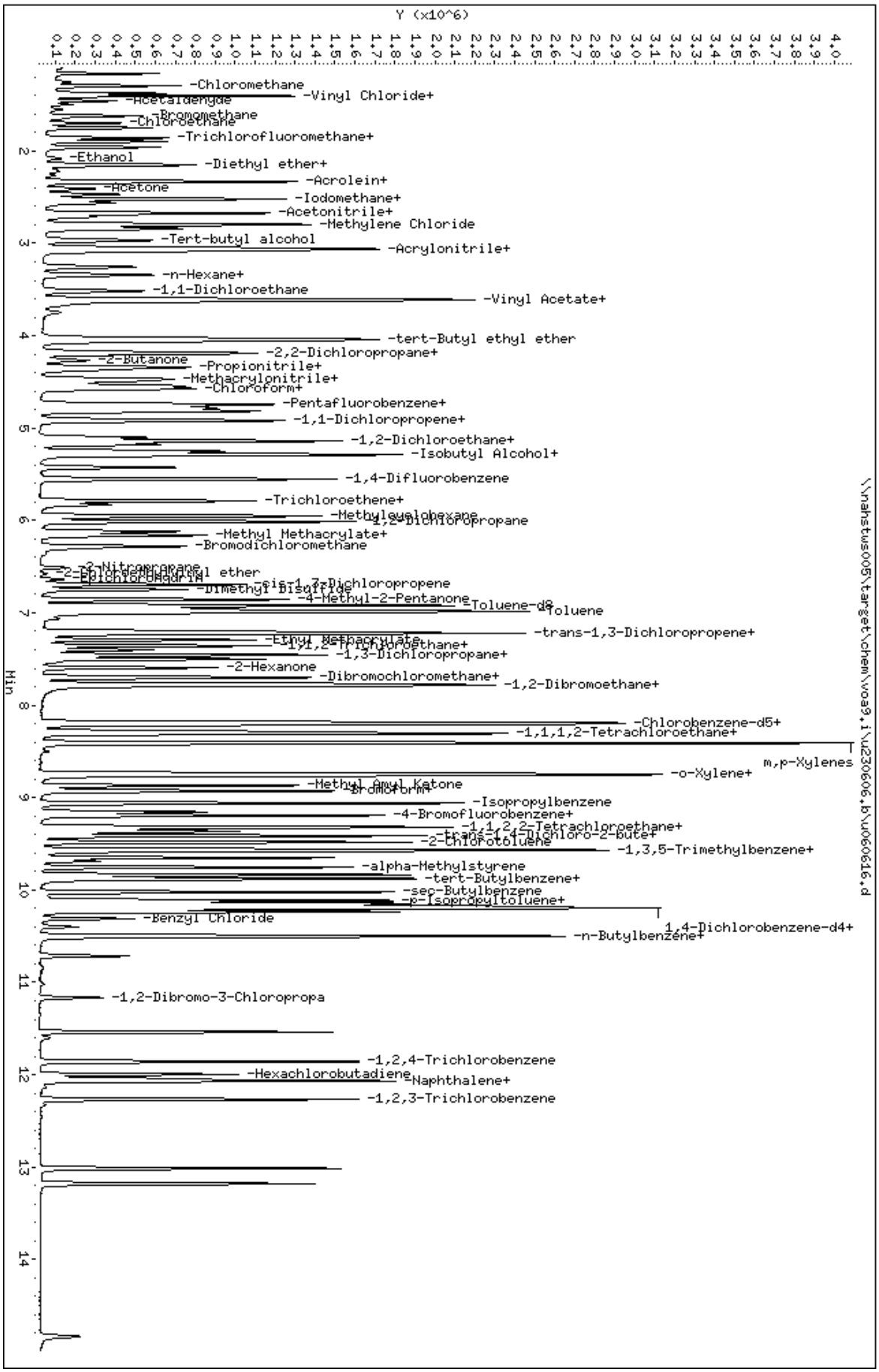
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
$	30 Dibromofluoromethane	113	4.748	4.755	(0.986)	318316	48.5594	48.55
	31 1,1,1-Trichloroethane	97	4.740	4.748	(0.984)	428686	44.1171	44.11
	32 1,1-Dichloropropene	75	4.920	4.924	(0.886)	386704	45.6635	45.66
	33 1,2-Dichloroethane	62	5.175	5.183	(0.932)	441937	44.1878	44.18
	34 Carbon Tetrachloride	117	4.909	4.917	(0.884)	345264	44.3847	44.38
$	35 1,2-Dichloroethane-d4	65	5.100	5.104	(1.059)	338506	47.7012	47.70
*	36 1,4-Difluorobenzene	114	5.554	5.558	(1.000)	1155525	50.0000	
	37 Benzene	78	5.138	5.141	(0.925)	1289605	46.3151	46.31
	38 Trichloroethene	130	5.790	5.790	(1.043)	360272	44.6411	44.64
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	414478	47.7201	47.72
	41 2-Chloroethylvinyl ether	63	6.577	6.581	(1.184)	17278	82.2441	82.24(M)
	42 1,2-Dichloropropane	63	6.011	6.015	(1.082)	336299	45.2354	45.23
	44 Dibromomethane	93	6.120	6.124	(1.102)	214846	45.2290	45.22
	45 4-Methyl-2-Pentanone	43	6.855	6.858	(0.837)	752796	97.7283	97.72
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	520852	44.9600	44.95
*	47 Chlorobenzene-d5	117	8.185	8.189	(1.000)	1057791	50.0000	
$	48 Toluene-d8	98	6.922	6.926	(0.846)	1235345	51.5999	51.59
	50 Toluene	91	6.982	6.982	(0.853)	1380191	48.1072	48.10
	51 trans-1,3-Dichloropropene	75	7.200	7.199	(1.296)	429650	44.2325	44.23
	52 2-Hexanone	43	7.593	7.597	(0.928)	496806	92.6111	92.61
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	272556	45.6579	45.65
	54 1,3-Dichloropropane	76	7.499	7.503	(0.916)	578247	47.4115	47.41
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	366836	51.7915	51.79
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	318249	45.5291	45.52
	57 1,2-Dibromoethane	107	7.784	7.788	(0.951)	335864	45.6094	45.60
	58 1-Chlorohexane	55	8.197	8.200	(1.476)	242405	40.8537	40.85
	59 Chlorobenzene	112	8.208	8.212	(1.003)	941715	45.9914	45.99
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.287	(1.012)	345385	49.0774	49.07
	61 Ethylbenzene	106	8.305	8.309	(1.015)	460758	48.3475	48.34
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1140862	101.183	101.18
	63 o-Xylene	106	8.748	8.748	(1.069)	558477	50.1380	50.13
	64 Styrene	104	8.763	8.763	(1.071)	935490	52.9214	52.92
	66 Bromoform	173	8.920	8.920	(1.090)	243942	51.0235	51.02
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1308769	48.9183	48.91
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.332	(0.917)	454457	44.1598	44.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	483743	51.3065	51.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	547105	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.366	(0.920)	415776	45.9243	45.92
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	1420825	49.5106	49.51
	74 Bromobenzene	156	9.318	9.321	(0.916)	421969	45.7115	45.71
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	949218	48.2136	48.21
	76 2-Chlorotoluene	91	9.482	9.486	(0.932)	943175	46.7536	46.75
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1080779	48.4010	48.40
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	902133	46.6540	46.65
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	984625	47.7979	47.79
	81 sec-Butylbenzene	105	10.022	10.026	(0.985)	1146037	46.7345	46.73
	82 p-Isopropyltoluene	119	10.146	10.150	(0.997)	996804	48.5205	48.52
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	724727	46.2241	46.22
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	744273	44.5230	44.52
	87 n-Butylbenzene	91	10.491	10.495	(1.031)	805977	45.8271	45.82
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	711620	45.2687	45.26
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.169	(1.098)	71438	47.5707	47.57

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	514361	47.5706	47.57
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	185622	42.5095	42.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.065	12.069	(1.186)	1281110	51.0072	51.00
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	500164	47.3173	47.31
M	94 1,2-Dichloroethylene (total)	96				634210	89.7003	89.70
M	95 Xylenes (total)	106				1699339	151.321	151.32
	135 1,4-Dioxane	88	6.169	6.172	(1.281)	94832	611.650	611.64(R)
	141 Cyclohexane	56	4.782	4.785	(0.993)	401902	42.0727	42.07
	138 Freon TF	101	2.334	2.341	(0.485)	222912	42.5073	42.50
	140 1,3-Butadiene	54	1.404	1.412	(0.292)	342878	46.3679	46.36
	147 Methylcyclohexane	55	5.947	5.951	(1.071)	742238	46.3048	46.30
	146 Methyl Acetate	43	2.712	2.720	(0.563)	267638	40.7078	40.70
	148 Tert-Butyl alcohol	59	2.967	2.978	(0.616)	653389	905.196	905.19
	149 Isopropyl Alcohol	45	2.562	2.577	(0.532)	432312	846.925	846.92
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.381	(1.146)	66066	54.2434	54.24
	12 Isobutyl Alcohol	43	5.288	5.291	(1.098)	1078739	1063.31	1063.31
	13 Acetonitrile	39	2.671	2.679	(0.555)	369725	437.354	437.35
	14 Allyl Chloride	41	2.671	2.679	(0.555)	881221	43.4696	43.46
	25 Methacrylonitrile	41	4.497	4.500	(0.934)	220001	47.6887	47.68
	40 Methyl Methacrylate	41	6.157	6.161	(1.279)	319473	47.5853	47.58
	4 Propionitrile	54	4.339	4.350	(0.901)	504761	447.359	447.35
	136 n-Hexane	57	3.342	3.350	(0.694)	279959	43.1157	43.11
	194 Acetaldehyde	44	1.457	1.464	(0.303)	213458	198.213	198.21(M)
	131 Methyl Acrylate	55	4.369	4.377	(0.907)	376406	45.5808	45.58(M)
	200 Dimethyl Disulfide	94	6.746	6.750	(0.824)	342782	43.9278	43.92
	23 Chloroprene	53	2.158	2.165	(0.448)	106743	42.8616	42.86(M)
	49 Ethyl Methacrylate	69	7.293	7.297	(1.313)	493833	48.7533	48.75
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	946548	45.0091	45.00
	167 Ethanol	45	2.083	2.098	(0.433)	87414	894.820	894.81
	164 Dicyclopentadiene	66	10.198	10.202	(1.003)	1170894	43.8737	43.87
	145 alpha-Methylstyrene	118	9.752	9.756	(0.959)	456404	44.8638	44.86
	142 Tetrahydrofuran	42	4.545	4.549	(0.944)	124728	90.2172	90.21
	156 Diisopropyl ether	45	3.623	3.631	(0.752)	968924	44.5026	44.50
	151 4-Methyl-2-pentanol	45	7.222	7.226	(1.300)	1465561	852.923	852.92
	150 Allyl alcohol	57	3.342	3.350	(0.694)	279959	862.620	862.62
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	308230	48.8252	48.82
	162 Butyl acrylate	55	8.733	8.733	(1.067)	606576	48.4779	48.47
	139 Diethyl ether	59	2.143	2.154	(0.445)	236202	44.7701	44.77
	203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	256043	48.8830	48.88
	134 Cyclohexanone	55	9.153	9.156	(0.900)	315426	929.955	929.95
	130 Ethyl Acetate	43	4.343	4.272	(0.902)	367738	52.6863	52.68
	189 n-Butyl acetate	43	7.706	7.709	(0.941)	585580	48.6187	48.61(M)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	19670	179.479	179.47
	132 n-Butanol	56	5.831	5.835	(1.211)	194822	876.568	876.56

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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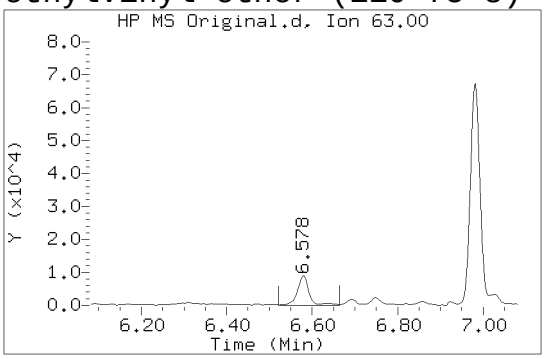

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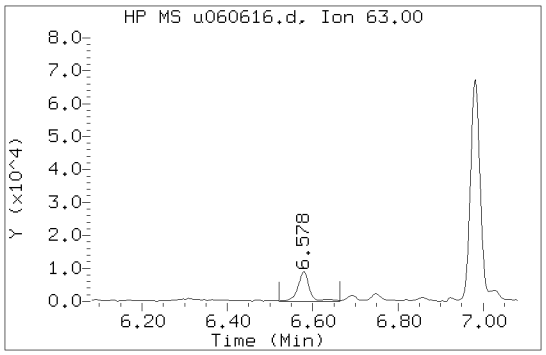

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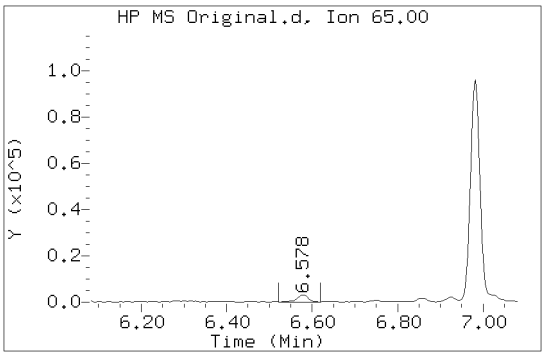

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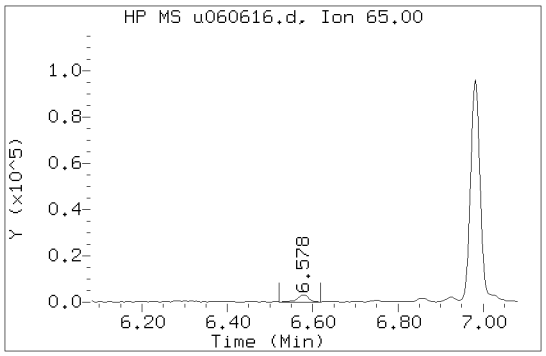

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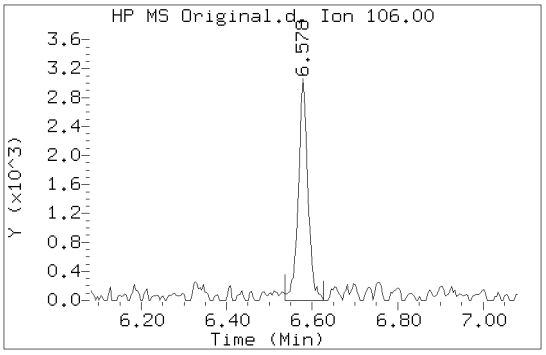

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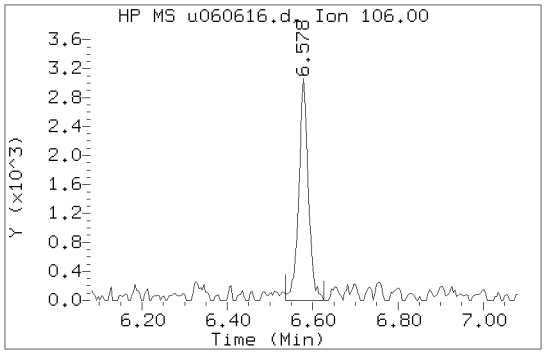

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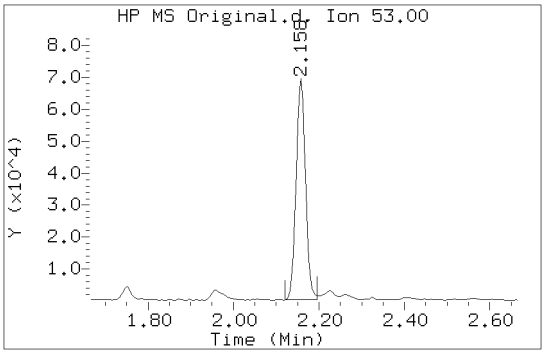

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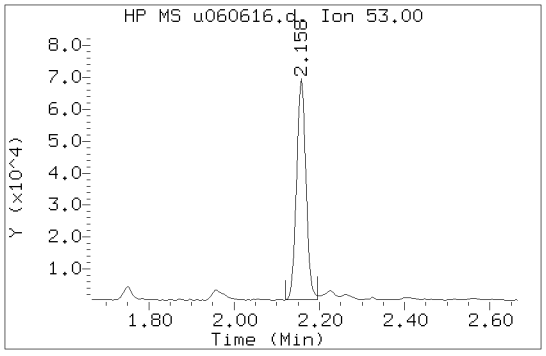

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Chloroprene (126-99-8)

Reason Code:

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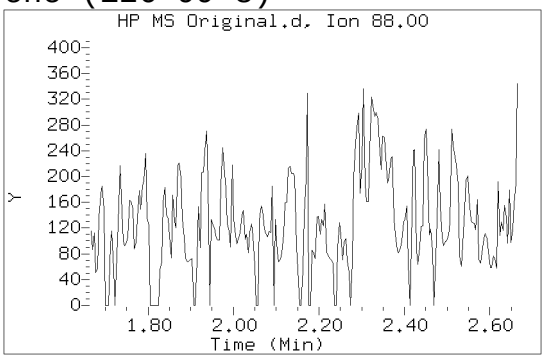

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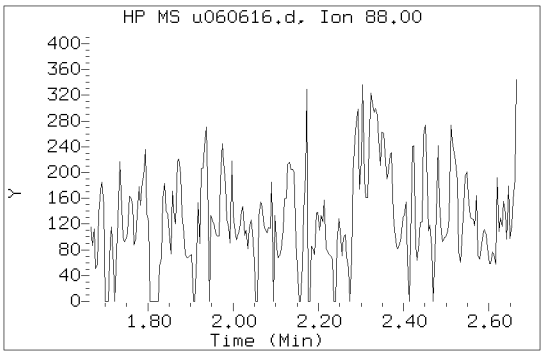

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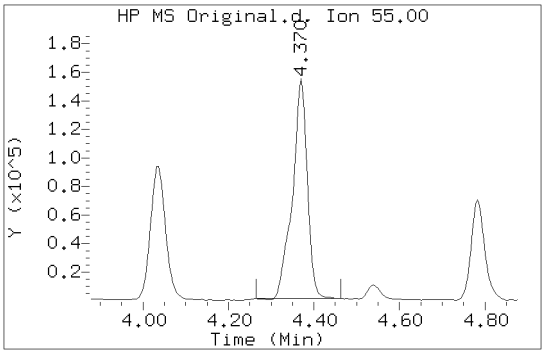

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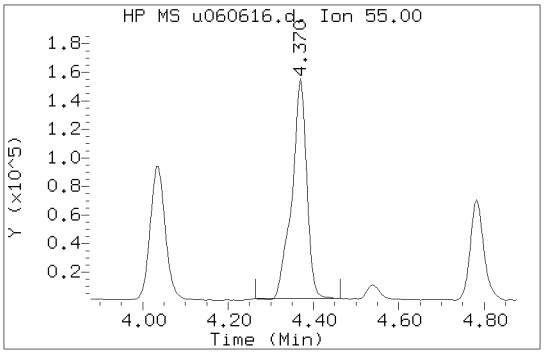

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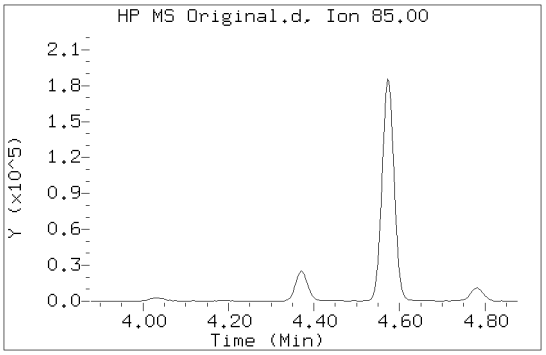
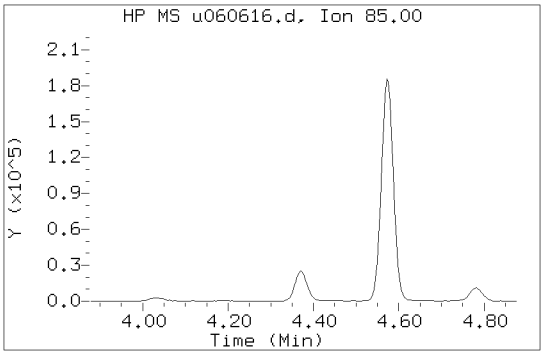


AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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08-Jun-2023
14:56
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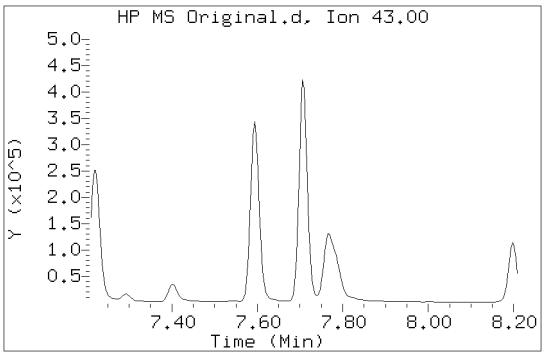
pham



AFTER

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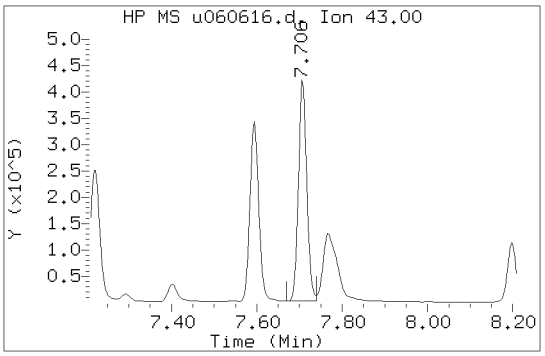

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Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

n-Butyl acetate (123-86-4)

BEFORE

MASS
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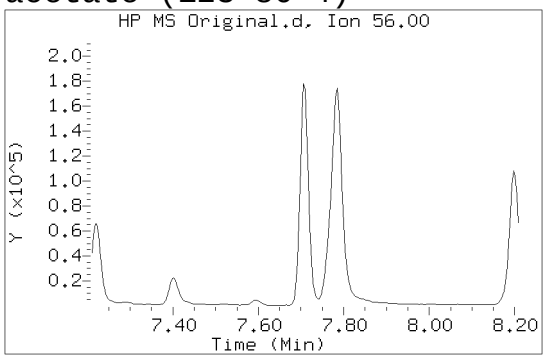
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



BEFORE

MASS
87
AREA
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HEIGHT
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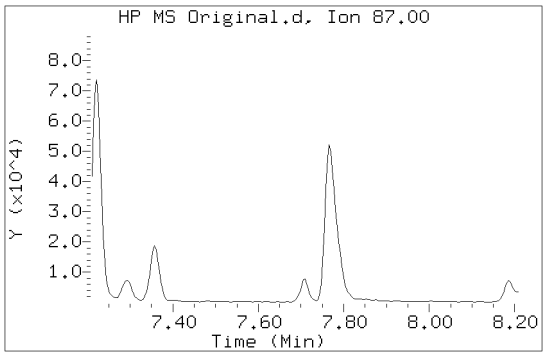
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

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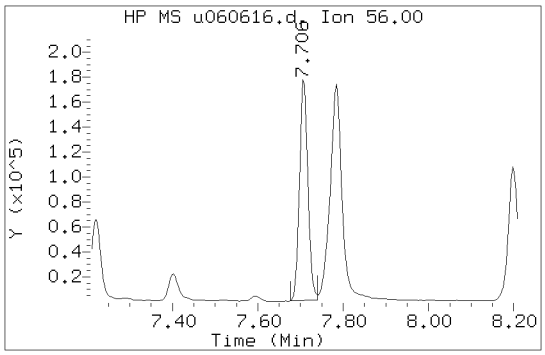

AFTER

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AREA
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21-Jun-2023
13:48
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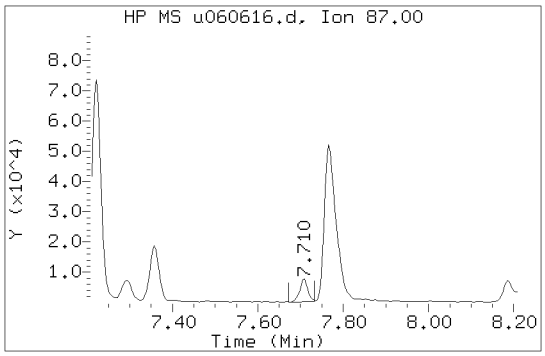

Acetaldehyde (75-07-0)

BEFORE

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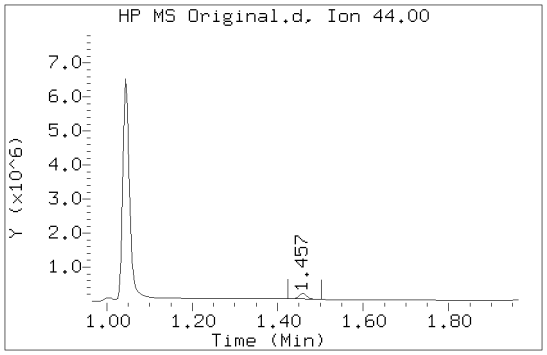
AREA
213458
HEIGHT
168169
08-Jun-2023
14:56
linh
pham



BEFORE

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AREA
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HEIGHT
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08-Jun-2023
14:56
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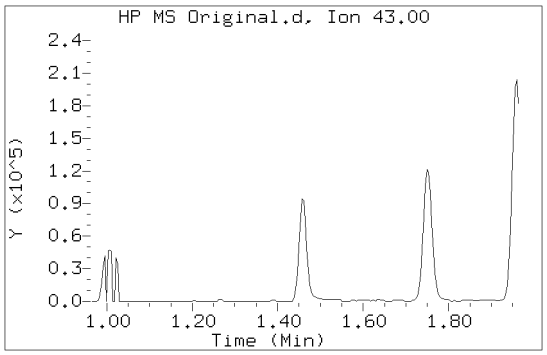
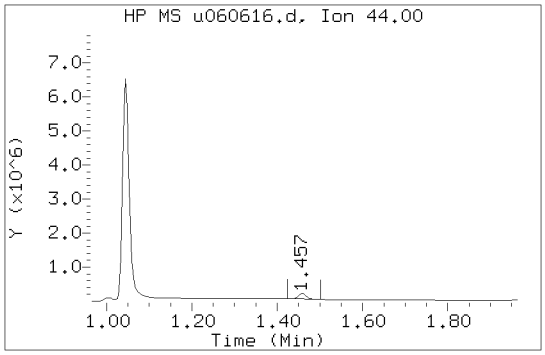
pham



Reason Code:

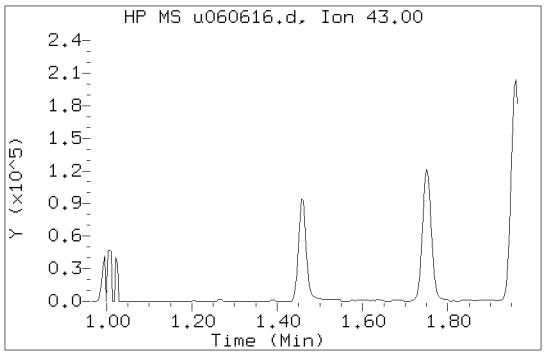
AFTER

MASS
44
AREA
213458
HEIGHT
168169
21-Jun-2023
13:48
linh
pha



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060616.d
Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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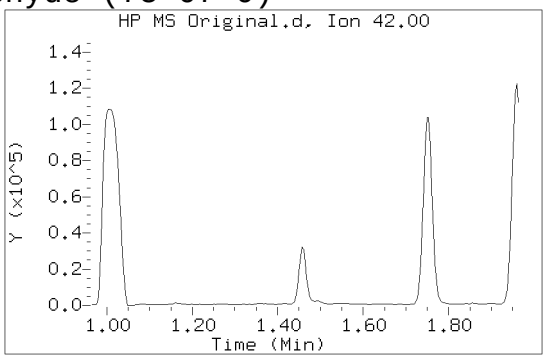
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
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HEIGHT
0
21-Jun-2023
13:48
linh
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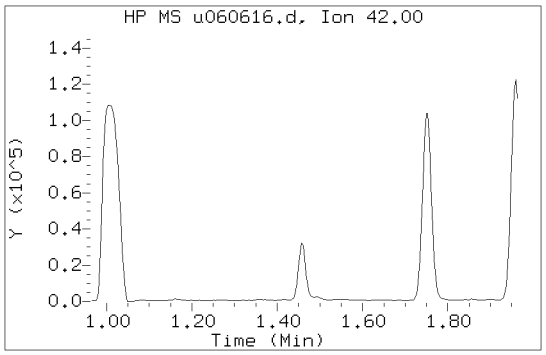


01212685

right solutions.
right partner.

Raw Data VOA9 440247

Volatiles by EPA 8260

Workorder

HS23061900

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Weekly Samples

07/03/2023

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

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 1
Report Date: 29-Jun-2023 11:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-JUN-2023 10:25
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

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

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

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.193	9.180	(0.000)	95	137408			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	26296			15.00- 40.00	19.14
9.193	9.180	(0.000)	75	66800			30.00- 60.00	48.61
9.193	9.180	(0.000)	96	9899			5.00- 9.00	7.20
9.193	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.193	9.180	(0.000)	174	126192			50.00- 0.00	91.84
9.193	9.180	(0.000)	175	10615			5.00- 9.00	8.41
9.193	9.180	(0.000)	176	122792			95.00- 101.00	97.31
9.193	9.180	(0.000)	177	8415			5.00- 9.00	6.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.14
75	30.00 - 60.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	91.84
175	5.00 - 9.00% of mass 174	7.73 (8.41)
176	95.00 - 101.00% of mass 174	89.36 (97.31)
177	5.00 - 9.00% of mass 176	6.12 (6.85)

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	252	79.90	1665	124.80	61	170.80	874
36.00	1546	80.90	4141	125.80	118	171.90	843
37.00	7371	81.80	969	126.80	1403	173.90	126192
38.00	6957	83.00	567	127.90	738	175.00	10615
39.00	4817	84.10	264	128.90	281	175.90	122792
39.90	1246	84.80	175	129.90	545	176.90	8415
41.00	3515	86.10	263	130.80	213	177.90	210
42.00	4906	86.90	5179	131.40	69	178.60	55
43.00	4642	87.90	5591	132.30	65	180.50	60
44.00	2110	89.90	116	133.10	62	181.80	74
45.00	3367	90.90	751	134.90	277	182.90	57
46.10	375	92.00	4065	135.60	101	183.30	67
47.00	2085	93.00	6359	136.20	103	184.70	126
48.00	1081	94.00	16776	136.80	262	185.10	138
49.00	5281	95.00	137408	137.80	84	185.90	1127
50.00	26296	96.00	9899	138.60	115	191.00	65
51.00	8560	97.00	491	139.90	228	192.00	133
52.00	635	98.00	2525	140.80	1717	197.30	57
53.10	480	99.10	328	141.90	1502	206.80	130
54.00	852	99.70	121	142.90	1498	208.10	64
55.00	5512	101.20	83	143.90	219	209.70	68
55.90	2893	102.00	89	145.00	202	216.90	55
57.00	4420	102.80	151	145.90	185	217.40	86
58.00	1604	103.90	570	146.90	124	233.90	111
59.00	5551	104.90	321	147.90	521	234.40	78
60.00	1485	105.80	626	148.90	250	234.80	55
61.00	6331	107.00	462	149.80	154	237.00	72
62.00	6243	108.00	88	152.00	92	237.90	75
63.00	5141	109.00	188	153.00	250	245.40	100
64.00	723	109.90	163	154.00	183	255.00	78
64.90	549	110.90	230	154.90	513	259.70	92
65.80	168	111.70	113	155.60	133	261.00	57
67.00	589	112.90	276	156.00	86	262.70	63
68.00	13898	113.50	55	156.80	310	278.70	83
69.00	14912	114.50	77	158.40	85	287.80	76
70.00	2302	115.00	164	159.00	150	301.50	51
71.10	302	115.90	587	159.70	85	311.90	72
71.90	711	116.90	774	160.90	294	312.80	55
73.00	6584	117.90	482	161.80	105	329.10	61
74.00	23440	118.90	811	165.10	51	331.30	56
75.00	66800	119.80	149	165.70	97	340.70	58
76.00	6044	122.00	115	167.00	66		
77.00	1228	122.60	81	167.70	105		
77.90	790	123.30	120	168.10	83		
78.90	3911	123.70	113	169.60	237		

+--------------------+--------------------+--------------------+--------------------+

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 1

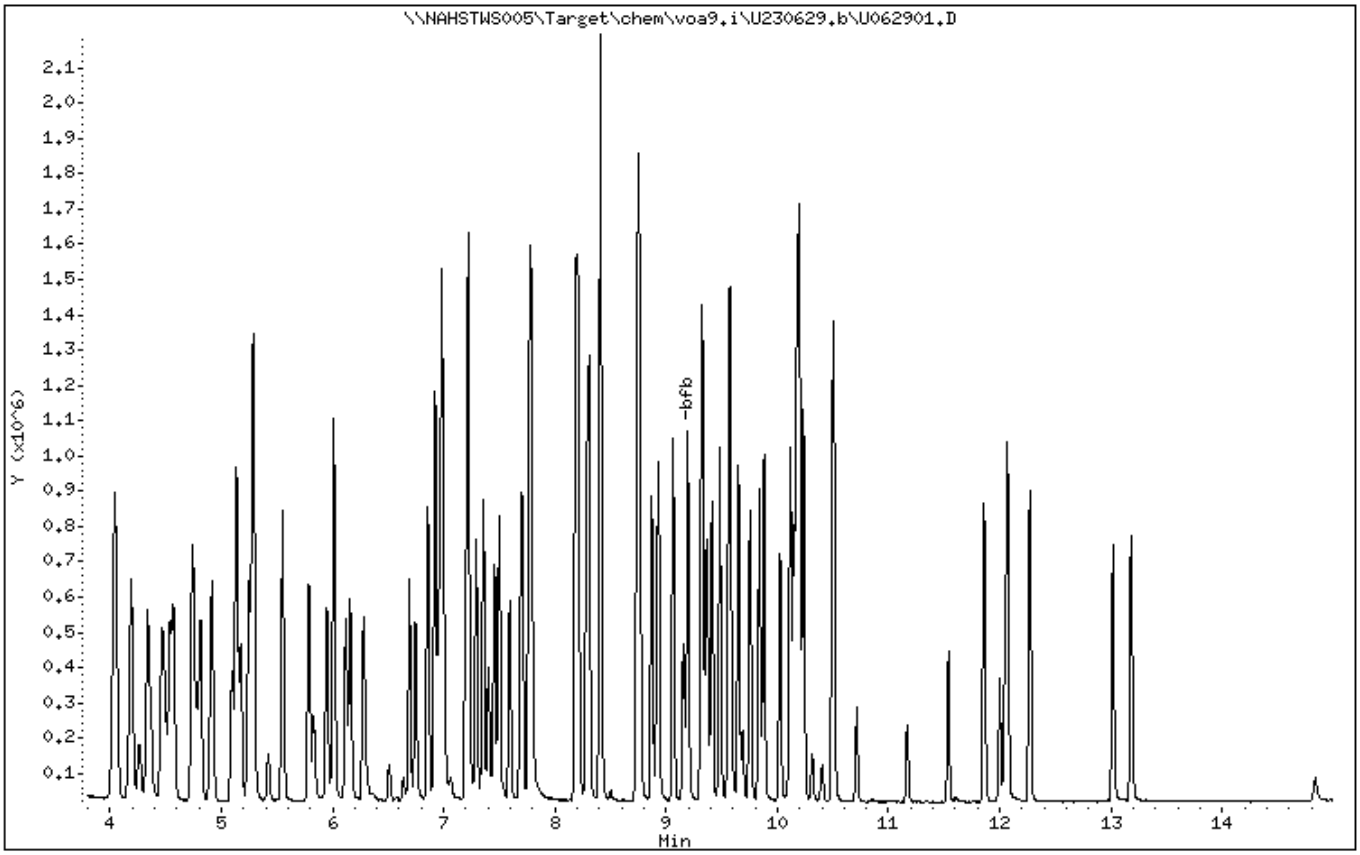
Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D

Date : 29-JUN-2023 10:25

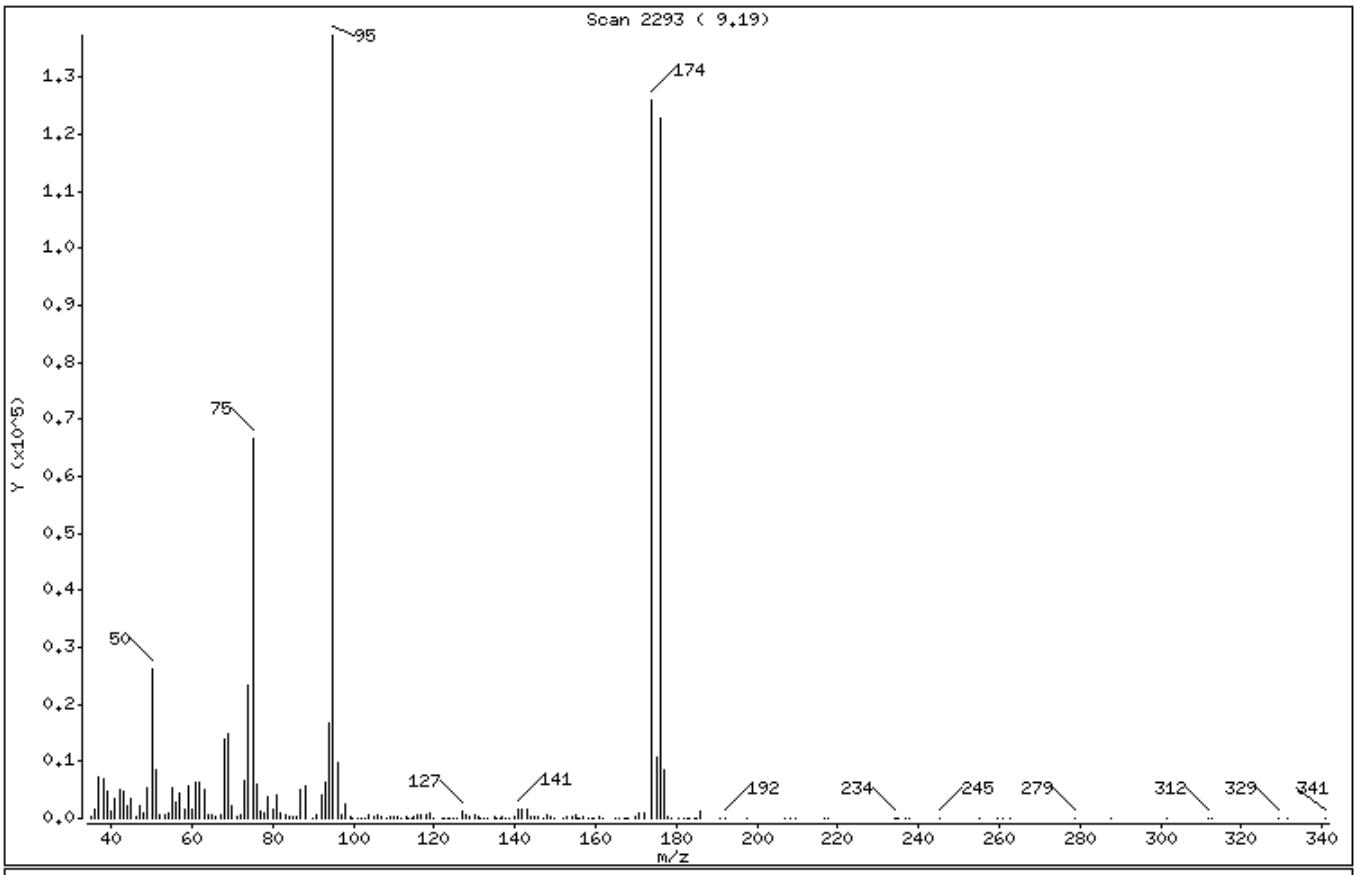
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.14
75	30.00 - 60.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	91.84
175	5.00 - 9.00% of mass 174	7.73 (8.41)
176	95.00 - 101.00% of mass 174	89.36 (97.31)
177	5.00 - 9.00% of mass 176	6.12 (6.85)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 3

Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	252	79.90	1665	124.80	61	170.80	874
36.00	1546	80.90	4141	125.80	118	171.90	843
37.00	7371	81.80	969	126.80	1403	173.90	126192
38.00	6957	83.00	567	127.90	738	175.00	10615
39.00	4817	84.10	264	128.90	281	175.90	122792
39.90	1246	84.80	175	129.90	545	176.90	8415
41.00	3515	86.10	263	130.80	213	177.90	210
42.00	4906	86.90	5179	131.40	69	178.60	55
43.00	4642	87.90	5591	132.30	65	180.50	60
44.00	2110	89.90	116	133.10	62	181.80	74
45.00	3367	90.90	751	134.90	277	182.90	57
46.10	375	92.00	4065	135.60	101	183.30	67
47.00	2085	93.00	6359	136.20	103	184.70	126
48.00	1081	94.00	16776	136.80	262	185.10	138
49.00	5281	95.00	137408	137.80	84	185.90	1127
50.00	26296	96.00	9899	138.60	115	191.00	65
51.00	8560	97.00	491	139.90	228	192.00	133
52.00	635	98.00	2525	140.80	1717	197.30	57
53.10	480	99.10	328	141.90	1502	206.80	130
54.00	852	99.70	121	142.90	1498	208.10	64
55.00	5512	101.20	83	143.90	219	209.70	68
55.90	2893	102.00	89	145.00	202	216.90	55
57.00	4420	102.80	151	145.90	185	217.40	86
58.00	1604	103.90	570	146.90	124	233.90	111
59.00	5551	104.90	321	147.90	521	234.40	78
60.00	1485	105.80	626	148.90	250	234.80	55
61.00	6331	107.00	462	149.80	154	237.00	72
62.00	6243	108.00	88	152.00	92	237.90	75
63.00	5141	109.00	188	153.00	250	245.40	100
64.00	723	109.90	163	154.00	183	255.00	78
64.90	549	110.90	230	154.90	513	259.70	92
65.80	168	111.70	113	155.60	133	261.00	57
67.00	589	112.90	276	156.00	86	262.70	63
68.00	13898	113.50	55	156.80	310	278.70	83
69.00	14912	114.50	77	158.40	85	287.80	76

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062901.D Page 4

Date : 29-JUN-2023 10:25

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062901.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	2302	115.00	164	159.00	150	301.50	51
71.10	302	115.90	587	159.70	85	311.90	72
71.90	711	116.90	774	160.90	294	312.80	55
73.00	6584	117.90	482	161.80	105	329.10	61
74.00	23440	118.90	811	165.10	51	331.30	56
75.00	66800	119.80	149	165.70	97	340.70	58
76.00	6044	122.00	115	167.00	66		
77.00	1228	122.60	81	167.70	105		
77.90	790	123.30	120	168.10	83		
78.90	3911	123.70	113	169.60	237		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062903.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062903.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 29-JUN-2023 11:09
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	567832	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	248826	50.0000	47.43
3	Chloromethane	50	1.291	1.291	(0.268)	360189	50.0000	41.84
5	Vinyl Chloride	62	1.370	1.370	(0.285)	289205	50.0000	48.15
6	Bromomethane	94	1.614	1.614	(0.335)	173249	50.0000	56.32
7	Chloroethane	64	1.696	1.696	(0.352)	195134	50.0000	48.22
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	374393	50.0000	54.27
9	Acrolein	56	2.259	2.259	(0.469)	29341	100.000	97.35
10	Acetone	43	2.405	2.405	(0.499)	199771	100.000	102.57
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	218196	50.0000	50.62
15	Iodomethane	142	2.465	2.465	(0.512)	469765	100.000	132.11
16	Acrylonitrile	53	3.061	3.061	(0.636)	207130	100.000	98.36
17	Methylene Chloride	84	2.791	2.791	(0.580)	275015	50.0000	53.17
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	693580	50.0000	52.47
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1317811	100.000	114.36
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	242156	50.0000	51.66
21	Vinyl Acetate	43	3.604	3.604	(0.749)	1523456	100.000	106.61
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	426488	50.0000	47.87
24	2-Butanone	43	4.264	4.264	(0.886)	243882	100.000	94.20
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	327931	50.0000	55.63

27	cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	282555	50.0000	50.38
28	Chloroform	83	4.572	4.572 (0.949)	465274	50.0000	50.18

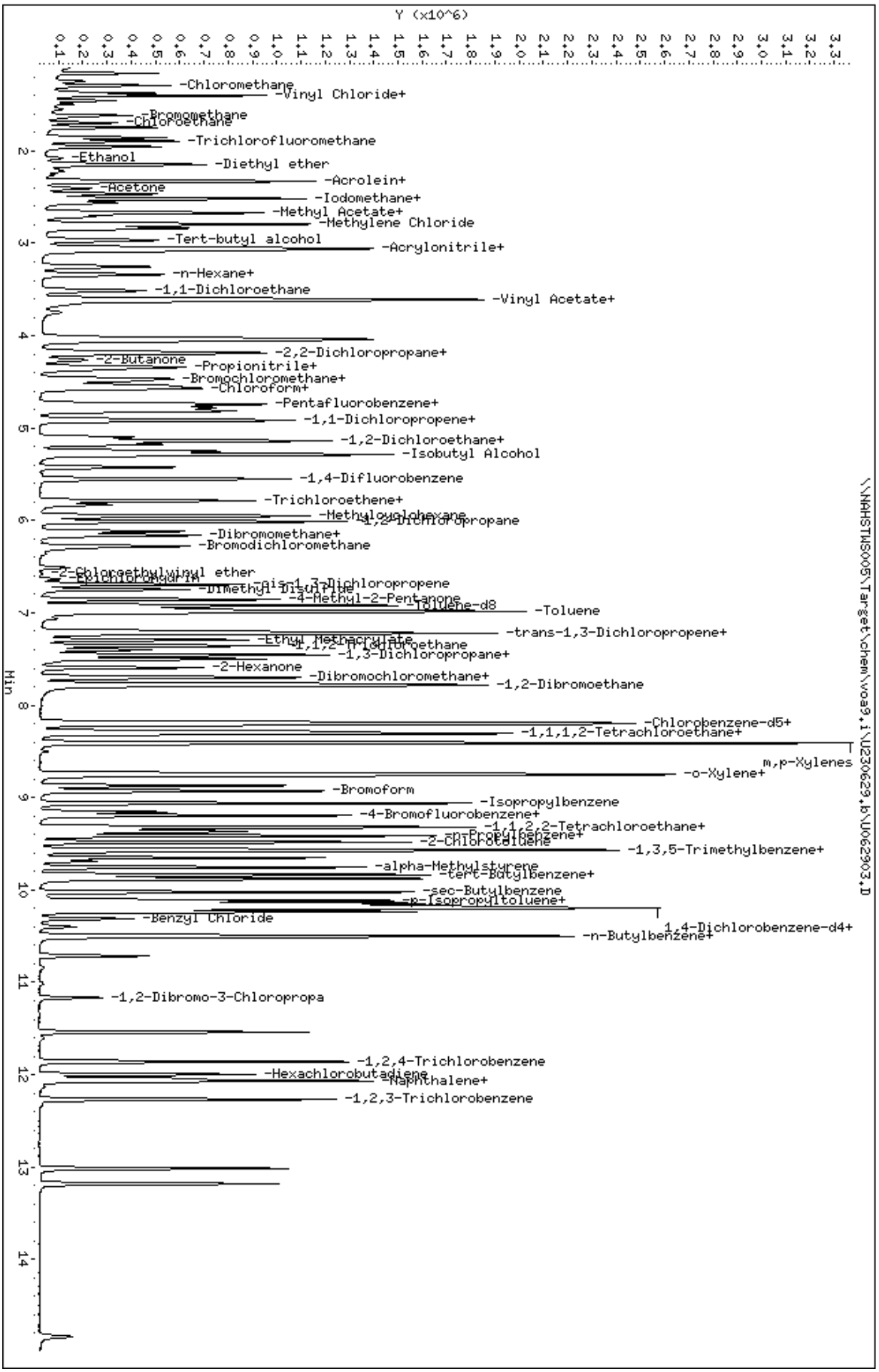
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	156621	50.0000	49.93
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	232377	50.0000	48.74
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	363547	50.0000	51.44
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	316664	50.0000	53.31
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	378513	50.0000	53.95
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	307890	50.0000	56.43
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	251930	50.0000	48.83
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	810480	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	1016602	50.0000	52.05
	38 Trichloroethene	130	5.786	5.786	(1.042)	287106	50.0000	50.72
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	343835	50.0000	56.43
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	6674	100.000	45.29
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	271733	50.0000	52.11
	44 Dibromomethane	93	6.120	6.120	(1.102)	181615	50.0000	54.51
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	578495	100.000	99.39
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	420561	50.0000	51.46
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	799242	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	862483	50.0000	47.67
	50 Toluene	91	6.982	6.982	(0.853)	1116313	50.0000	51.49
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	355051	50.0000	51.75
	52 2-Hexanone	43	7.593	7.593	(0.928)	382492	100.000	94.36
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	222076	50.0000	49.23
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	470280	50.0000	51.03
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	307648	50.0000	57.48
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	265608	50.0000	50.29
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	287483	50.0000	51.66
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	218237	50.0000	52.43
	59 Chlorobenzene	112	8.208	8.208	(1.003)	783162	50.0000	50.62
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	290290	50.0000	54.59
	61 Ethylbenzene	106	8.305	8.305	(1.015)	373478	50.0000	51.86
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	922302	100.000	108.26
	63 o-Xylene	106	8.748	8.748	(1.069)	454956	50.0000	54.05
	64 Styrene	104	8.763	8.763	(1.071)	768428	50.0000	57.53
	66 Bromoform	173	8.920	8.920	(1.090)	207889	50.0000	57.54
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1079543	50.0000	53.40
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	379212	50.0000	47.75
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	362803	50.0000	50.92
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	422195	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	356028	50.0000	50.95
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1172463	50.0000	52.94
	74 Bromobenzene	156	9.317	9.317	(0.916)	358049	50.0000	50.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	784940	50.0000	51.66
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	777096	50.0000	49.91
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	881168	50.0000	51.13
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	761608	50.0000	51.03
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	812621	50.0000	51.11
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	969818	50.0000	51.24
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	831761	50.0000	52.46
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	595532	50.0000	49.22
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	617192	50.0000	47.84
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	689708	50.0000	50.81
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	588353	50.0000	48.50

89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166 (1.098)	55797	50.0000	48.14
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	403211	50.0000	48.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	172198	50.0000	51.10
92	Naphthalene	128	12.065	12.065	(1.186)	986449	50.0000	50.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	385167	50.0000	47.21
M 94	1,2-Dichloroethylene (total)	96				524711	100.000	(a)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	75657	1000.00	671.01
141	Cyclohexane	56	4.778	4.778	(0.992)	321160	50.0000	46.11
138	Freon TF	101	2.330	2.330	(0.484)	207068	50.0000	54.29
140	1,3-Butadiene	54	1.400	1.400	(0.291)	250901	50.0000	46.65
147	Methylcyclohexane	55	5.947	5.947	(1.071)	583437	50.0000	51.89
146	Methyl Acetate	43	2.709	2.709	(0.563)	227335	50.0000	47.54
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	561534	1000.00	1070.64
149	Isopropyl Alcohol	45	2.559	2.559	(0.531)	367475	1000.00	989.94
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	59881	50.0000	65.06
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	786826	1000.00	1066.49
13	Acetonitrile	39	2.667	2.667	(0.554)	307113	500.000	499.55
14	Allyl Chloride	41	2.667	2.667	(0.554)	708060	50.0000	48.02
25	Methacrylonitrile	41	4.493	4.493	(0.933)	169672	50.0000	50.57
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	255713	50.0000	52.37
4	Propionitrile	54	4.339	4.339	(0.901)	391722	500.000	477.39
131	Methyl Acrylate	55	4.369	4.369	(0.907)	317776	50.0000	52.91
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	381964	50.0000	53.76
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	804562	50.0000	49.57
156	Diisopropyl ether	45	3.619	3.619	(0.752)	810551	50.0000	51.19

QC Flag Legend

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



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Purge Volume: 5.0
Column phase: DB624

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

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LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D Page 1
Report Date: 03-Jul-2023 13:02

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Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D
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Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	648308	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	262169	48.1667	48.16
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	295084	50.1161	50.11
* 36 1,4-Difluorobenzene	114	5.557	5.554	(1.000)	870455	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	795220	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	975326	54.1904	54.19
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	341661	48.1472	48.14
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	402526	50.0000	

01212702

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062904.D

Date : 29-JUN-2023 11:32

Client ID: CCB

Instrument: VOA9.i

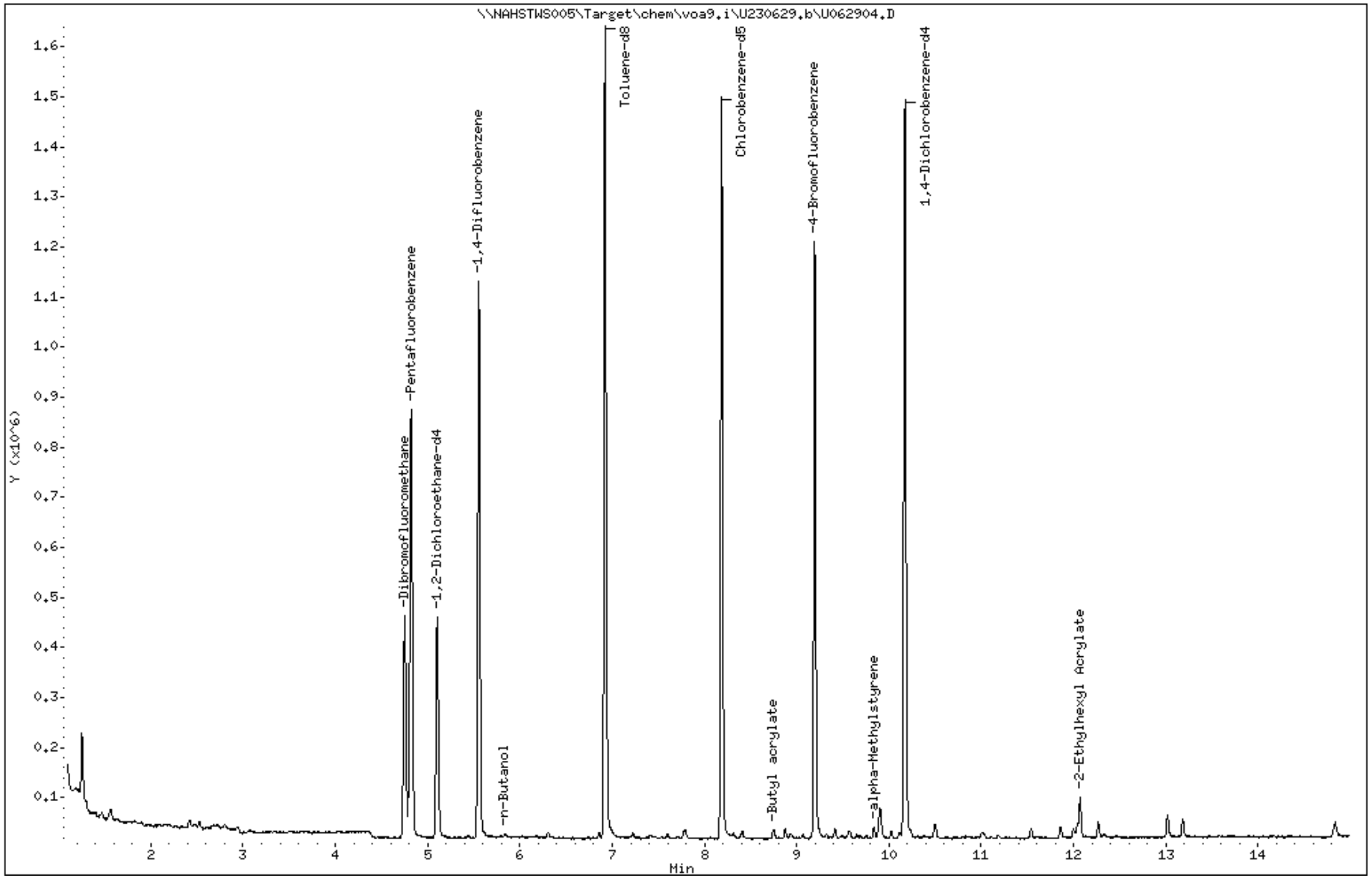
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D
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Inj Date : 29-JUN-2023 11:54
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Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.815	(1.000)	545168	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.160	(0.240)	103457	20.5863	20.58
3	Chloromethane	50	1.291	1.291	(0.268)	150776	17.4831	17.48
5	Vinyl Chloride	62	1.370	1.370	(0.285)	120158	20.8373	20.83
6	Bromomethane	94	1.614	1.614	(0.335)	78766	25.7022	25.70
7	Chloroethane	64	1.693	1.696	(0.352)	79017	20.3418	20.34
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	159418	24.0707	24.07
9	Acrolein	56	2.259	2.259	(0.469)	12173	42.0678	42.06
10	Acetone	43	2.405	2.405	(0.500)	85202	42.3957	42.39
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	89677	21.6708	21.67
15	Iodomethane	142	2.465	2.465	(0.512)	155189	53.9311	53.93
16	Acrylonitrile	53	3.061	3.061	(0.636)	82353	40.7337	40.73
17	Methylene Chloride	84	2.787	2.791	(0.579)	113377	22.2457	22.24
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	279425	22.0195	22.01
19	Carbon Disulfide	76	2.514	2.517	(0.522)	538878	48.7113	48.71
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	98622	21.9144	21.91
21	Vinyl Acetate	43	3.601	3.604	(0.748)	583509	42.5347	42.53
22	1,1-Dichloroethane	63	3.511	3.511	(0.730)	175524	20.5231	20.52
24	2-Butanone	43	4.264	4.264	(0.886)	92163	37.0788	37.07
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	131593	23.4849	23.48

27	cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	113274	21.0393	21.03
28	Chloroform	83	4.568	4.572 (0.949)	190497	21.4009	21.40

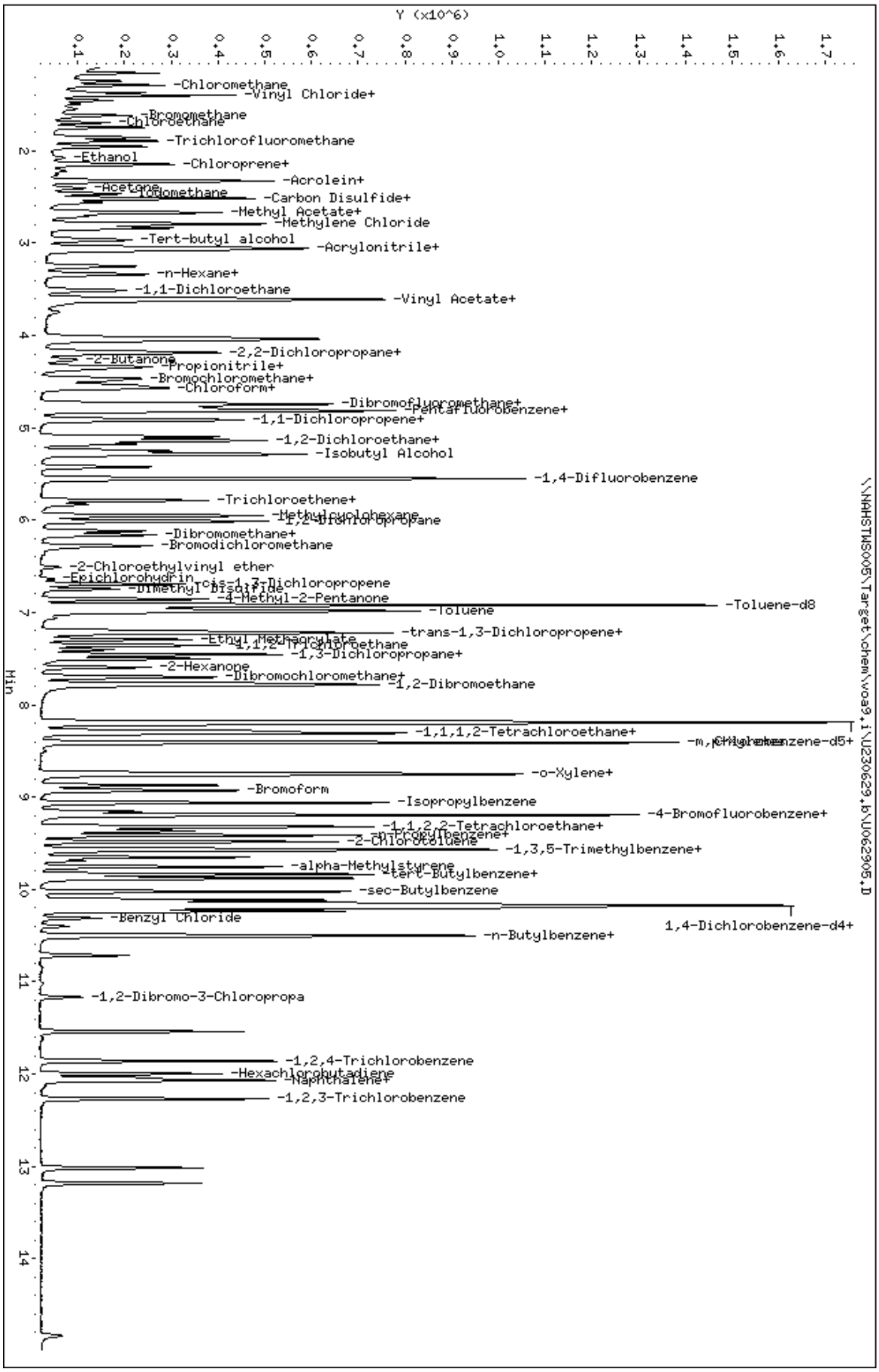
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	61850	20.5373	20.53
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	231262	50.5421	50.54
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	155099	22.8613	22.86
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	132608	22.5933	22.59
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	156476	22.5740	22.57
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	127589	23.6654	23.66
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	255848	51.6943	51.69
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	800867	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	409266	21.2076	21.20
	38 Trichloroethene	130	5.786	5.786	(1.043)	117363	20.9823	20.98
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	130744	21.7190	21.71
	41 2-Chloroethylvinyl ether	63	6.573	6.577	(1.184)	2044	14.0382	14.03(a)
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	106865	20.7399	20.73
	44 Dibromomethane	93	6.120	6.120	(1.103)	70724	21.4820	21.48
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	213440	37.7547	37.75
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	156373	20.5593	20.55
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	776333	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	853057	48.5501	48.55
	50 Toluene	91	6.982	6.982	(0.853)	453827	21.5533	21.55
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	124116	19.6151	19.61
	52 2-Hexanone	43	7.593	7.593	(0.928)	143163	36.3629	36.36
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	87617	19.9986	19.99
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	182986	20.4428	20.44
	55 Dibromochloromethane	129	7.691	7.694	(0.940)	113552	21.8441	21.84
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	112875	22.0025	22.00
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	112066	20.7356	20.73
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	95210	23.1522	23.15
	59 Chlorobenzene	112	8.208	8.208	(1.003)	324211	21.5743	21.57
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	111503	21.5882	21.58
	61 Ethylbenzene	106	8.305	8.305	(1.015)	154504	22.0898	22.08
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	380413	45.9707	45.97
	63 o-Xylene	106	8.748	8.748	(1.069)	181196	22.1647	22.16
	64 Styrene	104	8.763	8.763	(1.071)	302005	23.2787	23.27
	66 Bromoform	173	8.920	8.920	(1.090)	73958	21.0776	21.07
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	456971	23.2728	23.27
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	149036	19.3480	19.34
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	357047	51.6033	51.60
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	409506	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	132284	19.5209	19.52
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	494199	23.0075	23.00
	74 Bromobenzene	156	9.317	9.317	(0.916)	146321	21.1769	21.17
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	333102	22.6043	22.60
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	330415	21.8823	21.88
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	372249	22.2721	22.27
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	328495	22.6964	22.69
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	344247	22.3264	22.32
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	419945	22.8793	22.87
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	354699	23.0667	23.06
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	249006	21.2185	21.21
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	261383	20.8901	20.89
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	298939	22.7087	22.70
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	245677	20.8797	20.87

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.166 (1.098)	19156	17.0422	17.04
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	160536	19.8360	19.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	72757	22.2609	22.26
	92 Naphthalene	128	12.069	12.065	(1.186)	365251	19.4288	19.42
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	154243	19.4950	19.49
M	94 1,2-Dichloroethylene (total)	96				211896	42.9537	42.95
M	95 Xylenes (total)	106				561609	68.1354	68.13
	135 1,4-Dioxane	88	6.172	6.169	(1.283)	26694	246.596	246.59
	141 Cyclohexane	56	4.778	4.778	(0.993)	144654	22.0083	22.00
	138 Freon TF	101	2.330	2.330	(0.484)	88189	24.0862	24.08
	140 1,3-Butadiene	54	1.396	1.400	(0.290)	104587	20.2572	20.25
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	233243	20.9947	20.99
	146 Methyl Acetate	43	2.708	2.709	(0.563)	88143	19.2018	19.20
	148 Tert-Butyl alcohol	59	2.963	2.967	(0.616)	215360	424.709	424.70
	149 Isopropyl Alcohol	45	2.559	2.559	(0.532)	136069	381.795	381.79
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	20525	22.9617	22.96
	12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	333467	470.783	470.78
	13 Acetonitrile	39	2.667	2.667	(0.554)	127360	215.780	215.77
	14 Allyl Chloride	41	2.667	2.667	(0.554)	285544	20.1742	20.17
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	66001	20.4911	20.49
	40 Methyl Methacrylate	41	6.157	6.157	(1.280)	95784	20.4341	20.43
	4 Propionitrile	54	4.335	4.339	(0.901)	159051	201.897	201.89(a)
	131 Methyl Acrylate	55	4.365	4.369	(0.907)	126196	21.8874	21.88
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	141837	20.2038	20.20
	166 1,2,3-Trimethylbenzene	105	10.232	10.236	(1.006)	335628	21.3219	21.32
	156 Diisopropyl ether	45	3.616	3.619	(0.751)	335145	22.0471	22.04

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230629,b\U062905,D
Date : 29-JUN-2023 11:54
Client ID: VLCSW-230629
Sample Info: VLCSW-230629;VLCSW-230629;3;;LCS
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062905.D
Inj Date : 29-JUN-2023 11:54
InstruID : VOA9.i
LabSampID : VLCSW-230629

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D
Lab Smp Id: VBLKW-230629 Client Smp ID: VBLKW-230629
Inj Date : 29-JUN-2023 12:39
Operator : PC Inst ID: VOA9.i
Smp Info : VBLKW-230629;VBLKW-230629;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	641704	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	261423	48.5262	48.52
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	297667	51.0881	51.08
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	867792	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	788040	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	960597	53.8584	53.85
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	331839	47.1711	47.17
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	391345	50.0000	

01212712

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062907.D

Date : 29-JUN-2023 12:39

Client ID: VBLKW-230629

Instrument: VOA9.i

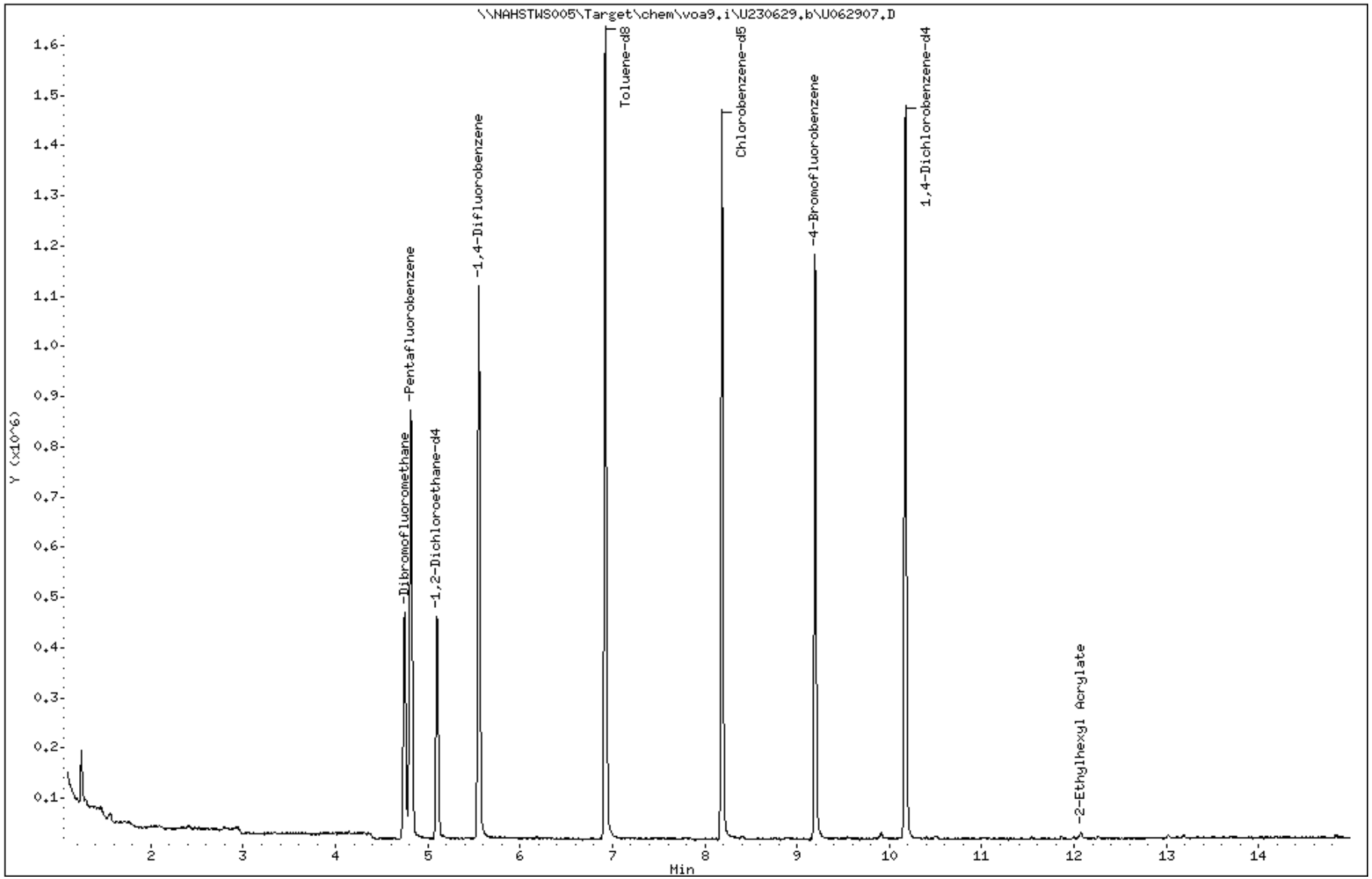
Sample Info: VBLKW-230629;VBLKW-230629;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 29-JUN-2023 12:39
InstruID : VOA9.i
LabSampID : VBLKW-230629

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062908.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062908.D
Lab Smp Id: HS23061900-02 Client Smp ID: HS23061900-02
Inj Date : 29-JUN-2023 13:01
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061900-02;HS23061900-02;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	638238	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	259971	48.5187	48.51
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	296589	51.1808	51.18
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	856101	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	784630	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	959378	54.0238	54.02
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	329865	47.0928	47.09
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	388949	50.0000	

01212715

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062908.D

Date : 29-JUN-2023 13:01

Client ID: HS23061900-02

Instrument: VOA9.i

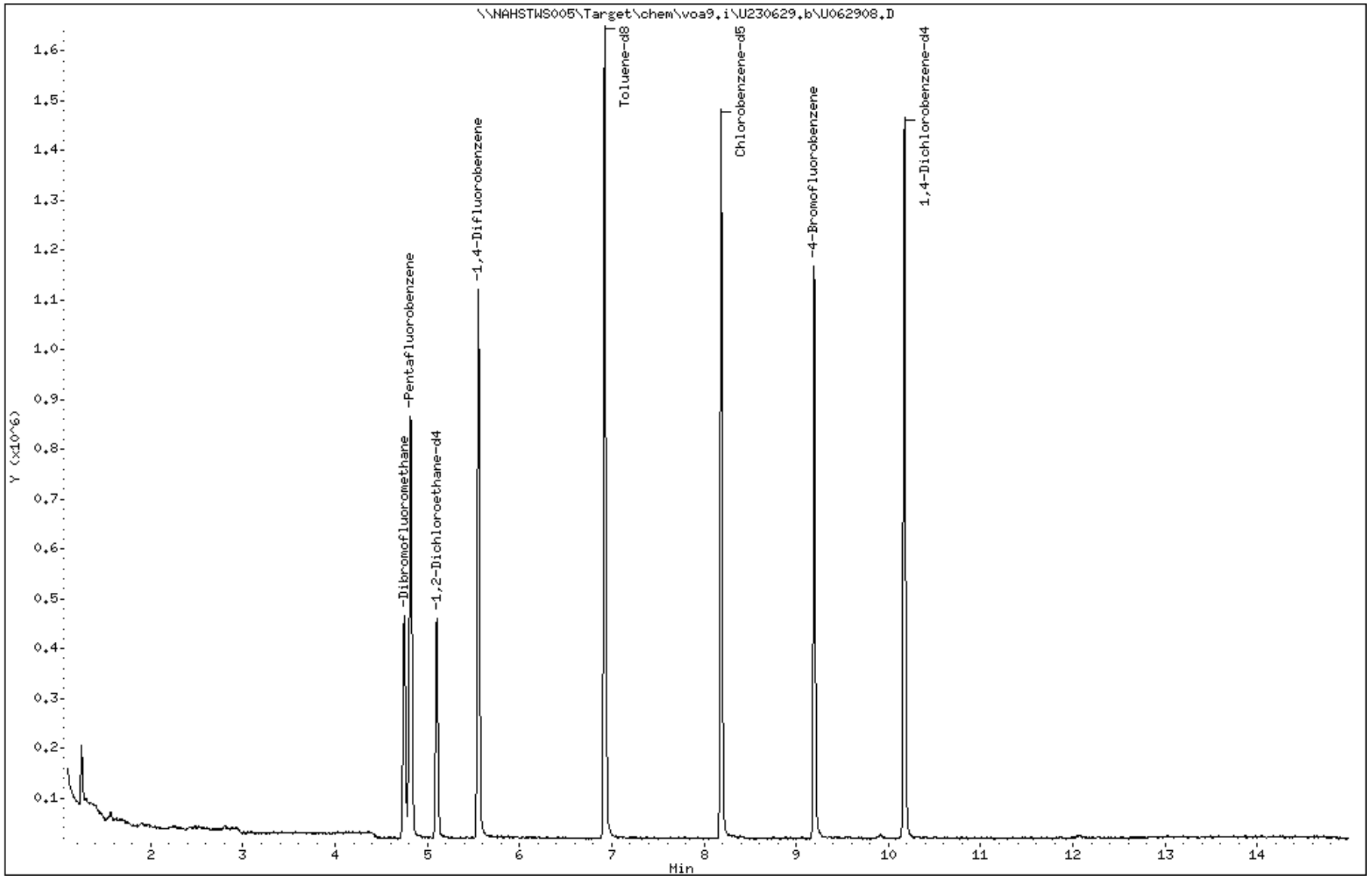
Sample Info: HS23061900-02;HS23061900-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 29-JUN-2023 13:01
InstruID : VOA9.i
LabSampID : HS23061900-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D
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Inj Date : 29-JUN-2023 15:10
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061825-03MS;HS23061825-03MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\8260C.m
Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	636356	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.160	(0.242)	104716	17.8616	17.86
3	Chloromethane	50	1.299	1.291	(0.270)	158286	15.5881	15.58
5	Vinyl Chloride	62	1.378	1.370	(0.286)	133359	19.8126	19.81
6	Bromomethane	94	1.618	1.614	(0.336)	85239	23.6946	23.69
7	Chloroethane	64	1.700	1.696	(0.353)	90526	19.9651	19.96
8	Trichlorofluoromethane	101	1.895	1.891	(0.394)	183671	23.7587	23.75
9	Acrolein	56	2.270	2.259	(0.471)	9918	29.3634	29.36
10	Acetone	43	2.409	2.405	(0.500)	74432	30.2936	30.29
11	1,1-Dichloroethene	96	2.334	2.326	(0.485)	104468	21.6276	21.62
15	Iodomethane	142	2.468	2.465	(0.513)	161437	49.2379	49.23
16	Acrylonitrile	53	3.068	3.061	(0.637)	110154	46.6772	46.67
17	Methylene Chloride	84	2.795	2.791	(0.580)	118931	19.8874	19.88
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	276419	18.6613	18.66
19	Carbon Disulfide	76	2.521	2.517	(0.524)	552146	42.7586	42.75
20	trans-1,2-Dichloroethene	96	3.061	3.053	(0.636)	107902	20.5407	20.54
21	Vinyl Acetate	43	3.608	3.604	(0.749)	593972	37.0930	37.09
22	1,1-Dichloroethane	63	3.514	3.511	(0.730)	190875	19.1199	19.11
24	2-Butanone	43	4.268	4.264	(0.886)	91321	31.4753	31.47
26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	146498	22.4169	22.41

27 cis-1,2-Dichloroethene	96	4.197	4.193 (0.872)	124933	19.8797	19.87
28 Chloroform	83	4.575	4.572 (0.950)	200995	19.3446	19.34

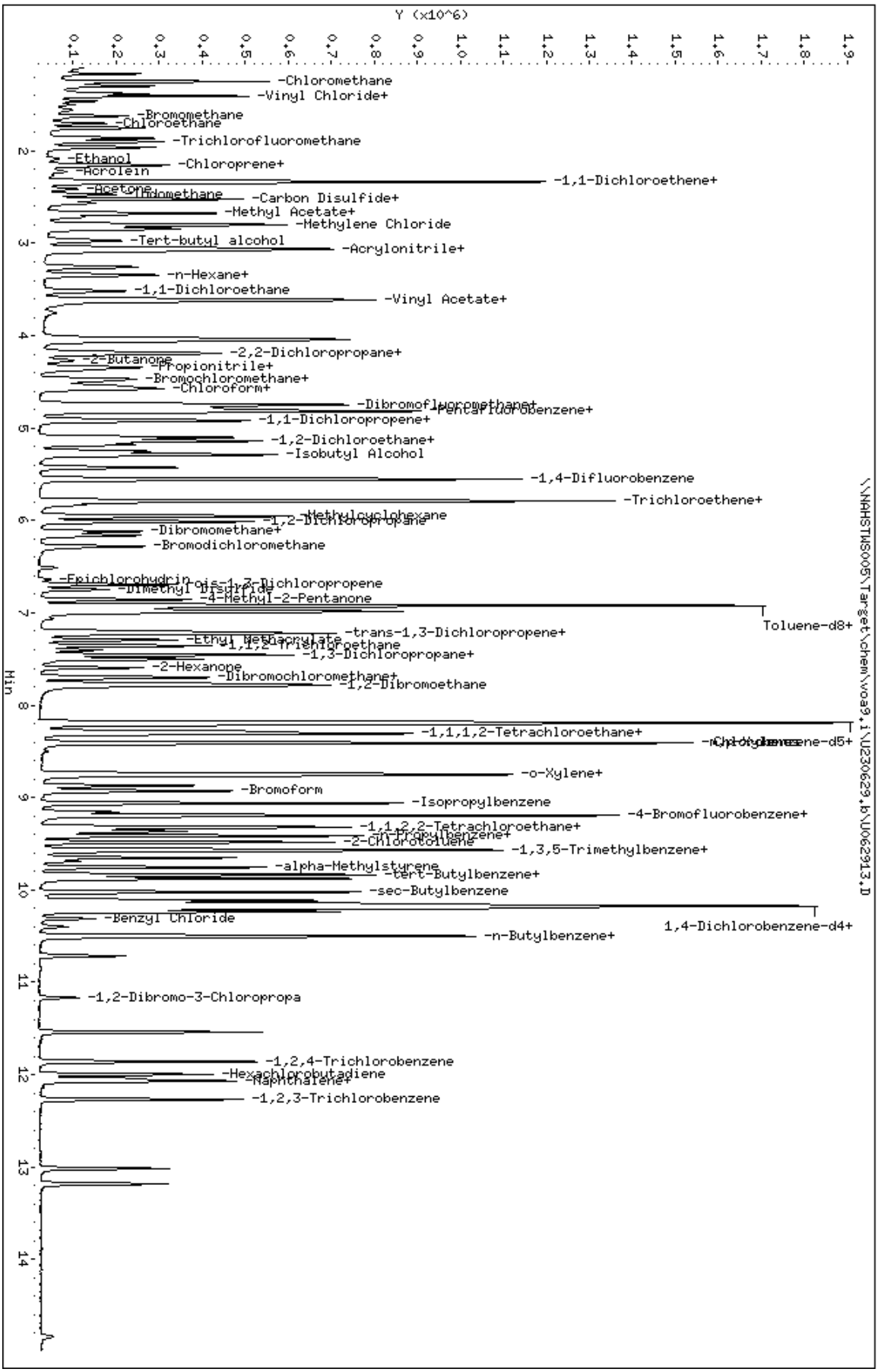
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.467	(0.928)	64767	18.4241	18.42
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	266311	49.8576	49.85
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	171211	21.6199	21.61
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	145079	23.0528	23.05
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	171125	23.0242	23.02
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	143894	24.8916	24.89
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	299178	51.7882	51.78
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	858718	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	436246	21.0827	21.08
	38 Trichloroethene	130	5.790	5.786	(1.043)	434806	72.4984	72.49
	39 Bromodichloromethane	83	6.281	6.277	(1.131)	137243	21.2627	21.26
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	111104	20.1100	20.10
	44 Dibromomethane	93	6.120	6.120	(1.102)	73931	20.9433	20.94
	45 4-Methyl-2-Pentanone	43	6.858	6.855	(0.838)	211951	35.4731	35.47
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	155284	19.1819	19.18
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	820502	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1004199	54.0755	54.07
	50 Toluene	91	6.982	6.982	(0.853)	483043	21.7058	21.70
	51 trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	127969	18.9392	18.93
	52 2-Hexanone	43	7.593	7.593	(0.928)	140615	33.7931	33.79
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	90136	19.4661	19.46
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	189945	20.0779	20.07
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	120555	21.9428	21.94
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	130853	24.1338	24.13
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	113167	19.8121	19.81
	58 1-Chlorohexane	55	8.196	8.197	(1.476)	108359	24.5744	24.57
	59 Chlorobenzene	112	8.211	8.208	(1.003)	343904	21.6528	21.65
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	120588	22.0904	22.09
	61 Ethylbenzene	106	8.305	8.305	(1.015)	166909	22.5788	22.57
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	415527	47.5109	47.51
	63 o-Xylene	106	8.748	8.748	(1.069)	197306	22.8361	22.83
	64 Styrene	104	8.763	8.763	(1.071)	318267	23.2116	23.21
	66 Bromoform	173	8.920	8.920	(1.090)	78727	21.2289	21.22
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	504470	24.3088	24.30
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	150749	18.0235	18.02
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	374972	51.2709	51.27
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	444652	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	132865	18.0569	18.05
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	531366	22.7825	22.78
	74 Bromobenzene	156	9.317	9.317	(0.916)	150436	20.0515	20.05
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	365077	22.8160	22.81
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	356168	21.7234	21.72
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	402236	22.1640	22.16
	78 tert-Butylbenzene	119	9.838	9.839	(0.967)	361601	23.0091	23.00
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	366329	21.8806	21.88
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	466858	23.4247	23.42
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	392999	23.5373	23.53
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	263100	20.6474	20.64
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	273435	20.1260	20.12
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	331455	23.1886	23.18
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	255398	19.9903	19.99
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.166	(1.098)	19629	16.0827	16.08

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	159082	18.1026	18.10	
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	76271	21.4915	21.49	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.065	(1.186)	331376	16.2337	16.23
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	149173	17.3639	17.36
M	94 1,2-Dichloroethylene (total)	96				232835	40.4204	40.42
M	95 Xylenes (total)	106				612833	70.3470	70.34
	135 1,4-Dioxane	88	6.172	6.169	(1.282)	25068	198.391	198.39
	141 Cyclohexane	56	4.781	4.778	(0.993)	171963	22.4061	22.40
	138 Freon TF	101	2.337	2.330	(0.485)	352212	82.4116	82.41
	140 1,3-Butadiene	54	1.404	1.400	(0.292)	122533	20.3322	20.33
	147 Methylcyclohexane	55	5.951	5.947	(1.072)	259256	21.7641	21.76
	146 Methyl Acetate	43	2.716	2.709	(0.564)	94314	17.6019	17.60
	148 Tert-Butyl alcohol	59	2.971	2.967	(0.617)	209346	352.860	352.85
	149 Isopropyl Alcohol	45	2.566	2.559	(0.533)	134735	323.879	323.87
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15640	16.5549	16.55
	12 Isobutyl Alcohol	43	5.287	5.288	(1.098)	325049	393.140	393.13
	13 Acetonitrile	39	2.671	2.667	(0.555)	138225	200.629	200.62
	14 Allyl Chloride	41	2.675	2.667	(0.555)	303166	18.3500	18.34
	25 Methacrylonitrile	41	4.497	4.493	(0.934)	60031	15.9669	15.96
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	93451	17.0796	17.07
	4 Propionitrile	54	4.339	4.339	(0.901)	155758	169.385	169.38(a)
	131 Methyl Acrylate	55	4.369	4.369	(0.907)	123273	18.3167	18.31
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	142405	18.9181	18.91
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	367008	21.4726	21.47
	156 Diisopropyl ether	45	3.623	3.619	(0.752)	334227	18.8361	18.83

QC Flag Legend

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



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Sample Info: HS230618825-03MS;HS230618825-03MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062913.D
Inj Date : 29-JUN-2023 15:10
InstruID : VOA9.i
LabSampID : HS23061825-03MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062914.D Page 1
Report Date: 03-Jul-2023 13:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062914.D
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Operator : PC Inst ID: VOA9.i
Smp Info : HS23061825-03MSD;HS23061825-03MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 03-Jul-2023 13:02 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	638913	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	103428	17.5726	17.57
3	Chloromethane	50	1.291	1.291	(0.268)	161438	15.8562	15.85
5	Vinyl Chloride	62	1.374	1.370	(0.285)	130625	19.3287	19.32
6	Bromomethane	94	1.614	1.614	(0.335)	80774	22.2603	22.26
7	Chloroethane	64	1.696	1.696	(0.352)	86363	18.9707	18.97
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	181106	23.3331	23.33
9	Acrolein	56	2.262	2.259	(0.470)	9916	29.2400	29.24
10	Acetone	43	2.405	2.405	(0.499)	81944	33.7683	33.76
11	1,1-Dichloroethene	96	2.330	2.326	(0.484)	102653	21.1668	21.16
15	Iodomethane	142	2.465	2.465	(0.512)	169796	51.0694	51.06
16	Acrylonitrile	53	3.061	3.061	(0.636)	114506	48.3271	48.32
17	Methylene Chloride	84	2.791	2.791	(0.580)	120654	20.1055	20.10
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	278845	18.7497	18.74
19	Carbon Disulfide	76	2.517	2.517	(0.523)	543783	41.9425	41.94
20	trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	109004	20.6674	20.66
21	Vinyl Acetate	43	3.604	3.604	(0.749)	606949	37.7517	37.75
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	187163	18.6731	18.67
24	2-Butanone	43	4.264	4.264	(0.886)	96098	32.9892	32.98
26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	140675	21.4571	21.45

27	cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	121961	19.3291	19.32
28	Chloroform	83	4.572	4.572 (0.949)	204919	19.6433	19.64

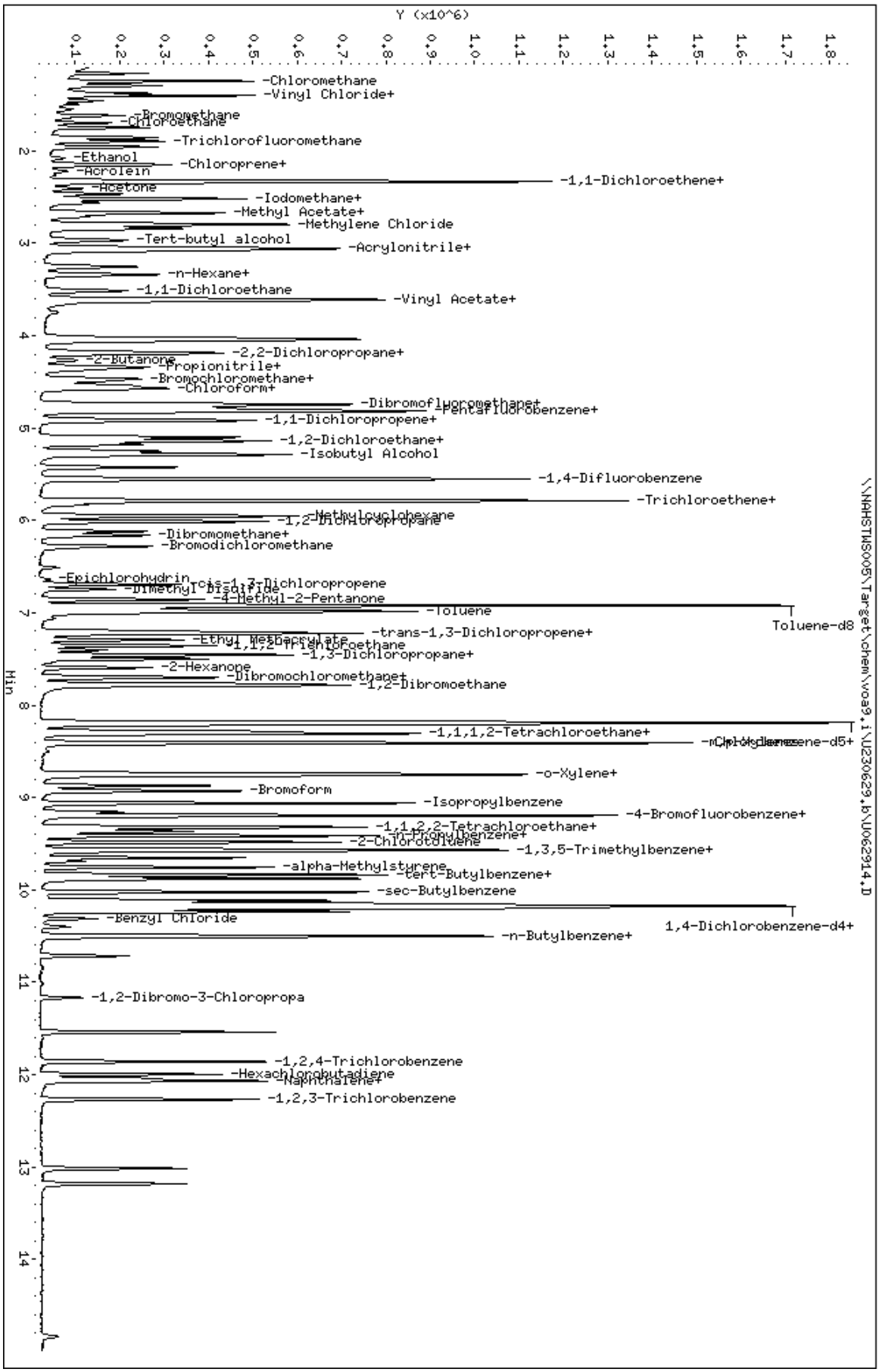
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	65214	18.4770	18.47
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	267431	49.8670	49.86
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	170021	21.3837	21.38
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	147073	23.0699	23.06
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	170652	22.6660	22.66
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	140860	24.0542	24.05
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	293831	50.6442	50.64
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	869876	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	439318	20.9588	20.95
	38 Trichloroethene	130	5.786	5.786	(1.042)	432964	71.2652	71.26
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	141594	21.6554	21.65
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	114036	20.3759	20.37
	44 Dibromomethane	93	6.120	6.120	(1.102)	72710	20.3332	20.33
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	219355	37.1255	37.12
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	158579	19.3221	19.32
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	811369	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1000103	54.4611	54.46
	50 Toluene	91	6.982	6.982	(0.853)	487910	22.1713	22.17
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	133326	19.4213	19.42
	52 2-Hexanone	43	7.593	7.593	(0.928)	145480	35.3558	35.35
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	91162	19.9093	19.90
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	193443	20.6778	20.67
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	117532	21.6334	21.63
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	128590	23.9834	23.98
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	114342	20.2432	20.24
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	108341	24.2552	24.25
	59 Chlorobenzene	112	8.208	8.208	(1.003)	340388	21.6727	21.67
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	118509	21.9539	21.95
	61 Ethylbenzene	106	8.305	8.305	(1.015)	166501	22.7771	22.77
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	410231	47.4333	47.43
	63 o-Xylene	106	8.748	8.748	(1.069)	195372	22.8668	22.86
	64 Styrene	104	8.763	8.763	(1.071)	317425	23.4107	23.41
	66 Bromoform	173	8.920	8.920	(1.090)	78036	21.2794	21.27
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	505085	24.6124	24.61
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	152984	18.9575	18.95
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	365042	50.4609	50.46
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	429013	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	133106	18.7491	18.74
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	536695	23.8499	23.84
	74 Bromobenzene	156	9.317	9.317	(0.916)	151803	20.9713	20.97
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	362921	23.5080	23.50
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	348216	22.0126	22.01
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	394497	22.5300	22.53
	78 tert-Butylbenzene	119	9.838	9.839	(0.967)	363948	24.0026	24.00
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	369405	22.8687	22.86
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	468017	24.3389	24.33
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	393779	24.4438	24.44
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	263888	21.4642	21.46
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	276151	21.0668	21.06
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	331848	24.0624	24.06
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	256344	20.7957	20.79
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	19870	16.8736	16.87

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	162185	19.1285	19.12
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	76940	22.4703	22.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.065	12.065	(1.186)	364514	18.5080	18.50
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	155370	18.7445	18.74
M	94 1,2-Dichloroethylene (total)	96				230965	39.9965	39.99
M	95 Xylenes (total)	106				605603	70.3001	70.30
	135 1,4-Dioxane	88	6.172	6.169	(1.282)	28130	221.733	221.73
	141 Cyclohexane	56	4.782	4.778	(0.993)	172576	22.3962	22.39
	138 Freon TF	101	2.334	2.330	(0.485)	347934	81.0848	81.08
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	120388	19.8963	19.89
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	262192	21.7282	21.72
	146 Methyl Acetate	43	2.708	2.709	(0.563)	96406	17.9203	17.92
	148 Tert-Butyl alcohol	59	2.963	2.967	(0.615)	213837	359.073	359.07
	149 Isopropyl Alcohol	45	2.559	2.559	(0.531)	139535	334.075	334.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	18228	19.5114	19.51
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	312718	376.712	376.71
	13 Acetonitrile	39	2.667	2.667	(0.554)	140742	203.465	203.46
	14 Allyl Chloride	41	2.667	2.667	(0.554)	307916	18.5629	18.56
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	65817	17.4358	17.43
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	96465	17.5599	17.55
	4 Propionitrile	54	4.339	4.339	(0.901)	158121	171.266	171.26(a)
	131 Methyl Acrylate	55	4.365	4.369	(0.907)	125901	18.6323	18.63
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	146721	19.2415	19.24
	166 1,2,3-Trimethylbenzene	105	10.232	10.236	(1.006)	364291	22.0906	22.09
	156 Diisopropyl ether	45	3.619	3.619	(0.752)	336918	18.9118	18.91

QC Flag Legend

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



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Sample Info: HS230618825-03HSD;HS230618825-03HSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9,i\U230629,b\U062914.D

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062914.D
Inj Date : 29-JUN-2023 15:33
InstruID : VOA9.i
LabSampID : HS23061825-03MSD

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062931.D
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Inj Date : 29-JUN-2023 21:53
Operator : PC Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
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Meth Date : 03-Jul-2023 13:03 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	524037	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	167716	50.0000	34.66
3	Chloromethane	50	1.295	1.295	(0.269)	319606	50.0000	40.18
5	Vinyl Chloride	62	1.378	1.378	(0.286)	237639	50.0000	42.87
6	Bromomethane	94	1.618	1.618	(0.336)	158813	50.0000	55.93
7	Chloroethane	64	1.700	1.700	(0.353)	170867	50.0000	45.76
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	317684	50.0000	49.90
9	Acrolein	56	2.266	2.266	(0.471)	28101	100.000	101.02
10	Acetone	43	2.409	2.409	(0.500)	174276	100.000	96.65
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	187324	50.0000	47.09
15	Iodomethane	142	2.469	2.469	(0.513)	306261	100.000	98.06
16	Acrylonitrile	53	3.065	3.065	(0.636)	206969	100.000	106.49
17	Methylene Chloride	84	2.795	2.795	(0.580)	244647	50.0000	51.21
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	656593	50.0000	53.82
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1131257	100.000	106.38
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	213400	50.0000	49.33
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1283180	100.000	97.30
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	386529	50.0000	47.01
24	2-Butanone	43	4.268	4.268	(0.886)	219098	100.000	91.70
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	241818	50.0000	44.53

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	252313	50.0000	48.75
28 Chloroform	83	4.572	4.572 (0.949)	417678	50.0000	48.81

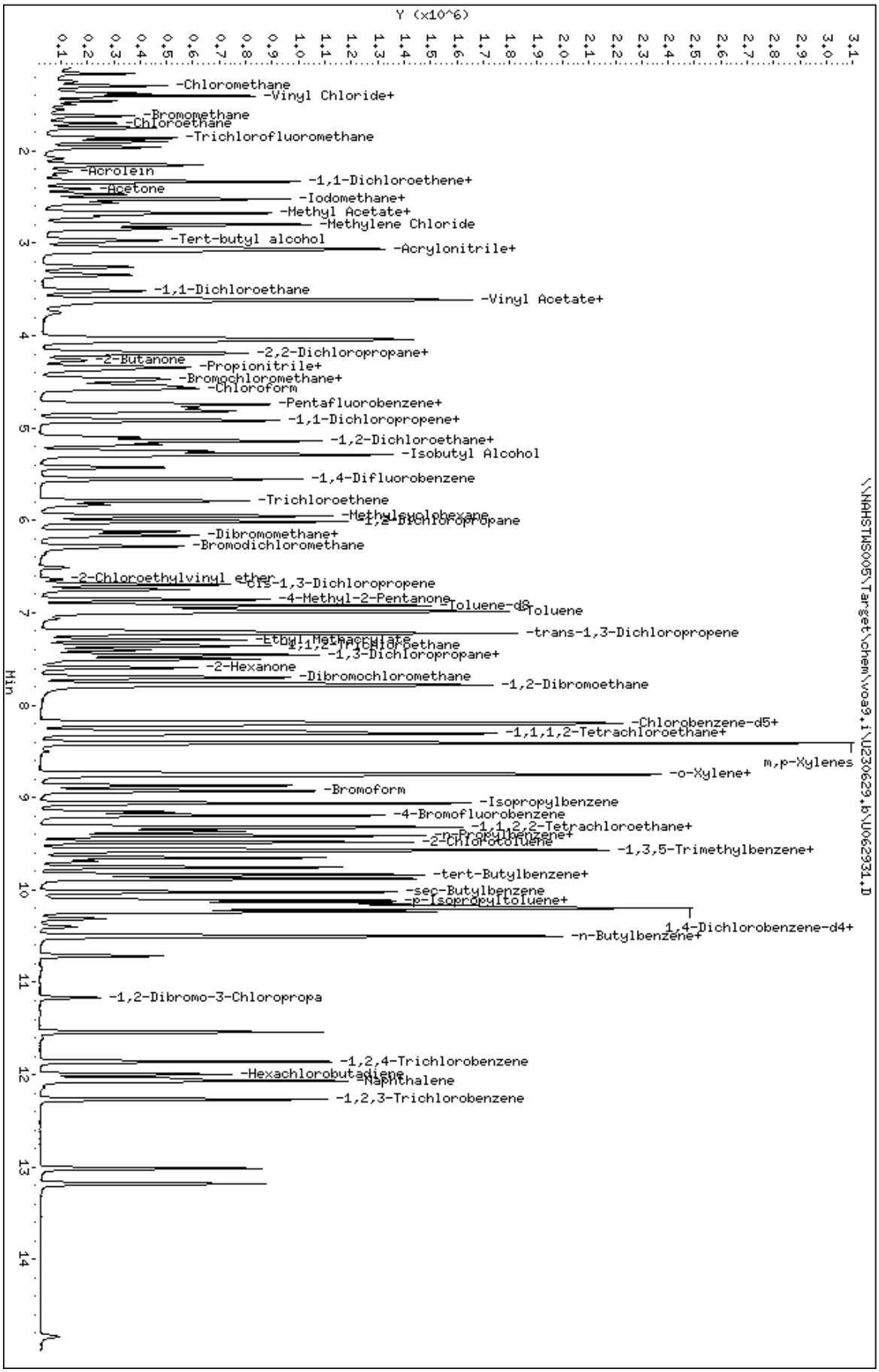
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	137327	50.0000	47.43
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	235230	50.0000	53.50
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	322838	50.0000	49.50
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	268616	50.0000	47.90
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	344306	50.0000	51.98
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	265776	50.0000	51.59
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	252455	50.0000	53.08
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	765169	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	894587	50.0000	48.51
	38 Trichloroethene	130	5.790	5.790	(1.043)	258958	50.0000	48.45
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	303682	50.0000	52.80
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3194	100.000	22.95
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	239276	50.0000	48.60
	44 Dibromomethane	93	6.120	6.120	(1.102)	159158	50.0000	50.59
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	512108	100.000	93.09
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	349738	50.0000	45.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	755426	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	858906	50.0000	50.23
	50 Toluene	91	6.982	6.982	(0.853)	994981	50.0000	48.56
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	294390	50.0000	45.69
	52 2-Hexanone	43	7.593	7.593	(0.928)	328648	100.000	85.78
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	197550	50.0000	46.33
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	422698	50.0000	48.52
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	270748	50.0000	53.52
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	229920	50.0000	46.05
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	256451	50.0000	48.76
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	183034	50.0000	46.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	704057	50.0000	48.14
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	257662	50.0000	51.26
	61 Ethylbenzene	106	8.305	8.305	(1.015)	331621	50.0000	48.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	832180	100.000	103.34
	63 o-Xylene	106	8.748	8.748	(1.069)	411874	50.0000	51.77
	64 Styrene	104	8.763	8.763	(1.071)	678744	50.0000	53.76
	66 Bromoform	173	8.920	8.920	(1.090)	189257	50.0000	55.42
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	962707	50.0000	50.38
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	340622	50.0000	44.86
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	359416	50.0000	53.41
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	403598	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	310620	50.0000	46.50
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1040395	50.0000	49.14
	74 Bromobenzene	156	9.317	9.317	(0.916)	326001	50.0000	47.87
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	711316	50.0000	48.97
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	711579	50.0000	47.81
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	811147	50.0000	49.24
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	683420	50.0000	47.91
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	710431	50.0000	46.75
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	849766	50.0000	46.97
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	710091	50.0000	46.85
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	543372	50.0000	46.98
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	558725	50.0000	45.30
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	575869	50.0000	44.38
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	543311	50.0000	46.85

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	50761	50.0000	45.82
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	355669	50.0000	44.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	137360	50.0000	42.64	
92	Naphthalene	128	12.065	12.065	(1.186)	838294	50.0000	45.24	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	346540	50.0000	44.44	
M 94	1,2-Dichloroethylene (total)	96				465713	100.000		(a)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	67224	1000.00	646.04	
141	Cyclohexane	56	4.782	4.782	(0.993)	256988	50.0000	40.13	
138	Freon TF	101	2.334	2.334	(0.485)	171535	50.0000	48.73	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	209418	50.0000	42.19	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	545061	50.0000	51.35	
146	Methyl Acetate	43	2.712	2.712	(0.563)	217209	50.0000	49.22	
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	503805	1000.00	1040.72	
149	Isopropyl Alcohol	45	2.562	2.562	(0.532)	328558	1000.00	959.07	
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	46125	50.0000	53.02	
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	719732	1000.00	1057.07	
13	Acetonitrile	39	2.671	2.671	(0.555)	287501	500.000	506.74	
14	Allyl Chloride	41	2.671	2.671	(0.555)	670357	50.0000	49.27	
25	Methacrylonitrile	41	4.497	4.497	(0.934)	155514	50.0000	50.22	
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	233766	50.0000	51.88	
4	Propionitrile	54	4.339	4.339	(0.901)	379739	500.000	501.47	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	303095	50.0000	54.68	
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	350878	50.0000	52.31	
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	783156	50.0000	50.48	
156	Diisopropyl ether	45	3.623	3.623	(0.752)	777178	50.0000	53.18	

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230629,b\U062931,D
Date : 29-JUN-2023 21:53
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230629.b\U062931.D
Inj Date : 29-JUN-2023 21:53
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

01212738

right solutions.
right partner.

Raw Data VOA9 440378

Volatiles by EPA 8260

Workorder

HS23061900

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Weekly Samples

07/03/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

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

www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D Page 1
Report Date: 30-Jun-2023 11:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-JUN-2023 10:37
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

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

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

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	123600			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	23728			15.00- 40.00	19.20
9.194	9.180	(0.000)	75	60464			30.00- 60.00	48.92
9.194	9.180	(0.000)	96	9036			5.00- 9.00	7.31
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	116144			50.00- 0.00	93.97
9.194	9.180	(0.000)	175	9523			5.00- 9.00	8.20
9.194	9.180	(0.000)	176	114280			95.00- 101.00	98.40
9.194	9.180	(0.000)	177	7881			5.00- 9.00	6.90

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.20
75	30.00 - 60.00% of mass 95	48.92
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.97
175	5.00 - 9.00% of mass 174	7.70 (8.20)
176	95.00 - 101.00% of mass 174	92.46 (98.40)
177	5.00 - 9.00% of mass 176	6.38 (6.90)

Data File: U063001.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 171

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1721	77.90	855	121.70	55	170.90	1055
37.00	6517	78.90	3470	122.90	89	171.90	686
38.00	6111	79.90	1286	123.90	124	173.90	116144
39.00	5069	80.90	3412	124.80	93	175.00	9523
39.90	1251	81.80	890	125.90	145	175.90	114280
41.00	3820	82.90	492	126.90	1781	176.90	7881
42.00	4246	83.80	161	127.90	914	177.70	299
43.00	4940	84.70	139	128.80	263	181.60	63
44.00	2686	85.30	260	129.80	495	183.60	66
45.00	4598	85.80	189	130.70	280	184.90	152
45.90	362	86.90	5093	131.80	167	185.90	1621
47.00	1603	87.90	4875	132.60	69	187.10	67
47.90	882	89.90	91	134.70	206	190.90	66
49.00	4839	91.00	605	135.80	105	191.70	67
50.00	23728	92.00	4147	136.70	305	193.10	56
51.00	7551	93.00	5300	137.60	89	193.90	52
51.90	508	94.00	14708	138.80	143	197.00	55
52.90	487	95.00	123600	139.90	205	198.50	55
53.80	502	96.00	9036	140.90	1761	200.40	56
54.20	517	97.00	469	141.90	1697	202.30	72
55.00	4850	98.00	2132	142.80	1407	203.60	82
56.00	2602	99.00	243	144.10	119	204.80	55
57.00	4165	99.70	52	144.80	193	206.10	63
58.10	1596	101.80	91	145.80	271	207.10	127
59.00	7572	103.00	213	146.90	51	218.10	88
60.00	1560	103.80	645	147.90	325	219.20	74
61.00	6241	105.00	341	148.70	137	233.70	60
62.00	5241	105.90	533	149.90	193	235.90	113
63.00	4549	106.90	450	150.60	52	239.20	56
64.00	694	107.70	106	152.80	190	241.30	87
64.90	406	109.00	224	153.80	133	249.90	84
65.90	178	109.70	67	155.00	368	272.40	74
67.10	694	110.10	110	156.00	123	280.80	56
68.00	13358	110.80	171	157.00	291	281.80	52
69.00	13699	111.80	89	158.80	196	282.90	73
70.00	2446	112.80	163	160.90	194	286.10	54
71.00	300	113.90	94	162.90	78	293.10	64
72.00	720	114.80	306	163.50	74	300.70	65
73.00	5460	115.80	444	165.80	93	314.10	53
74.00	20368	116.90	765	167.20	79	315.90	52
75.00	60464	117.90	700	167.70	131	336.60	86
76.00	5376	118.90	741	168.80	143	339.10	81
77.00	860	120.10	88	169.40	140		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D Page 1

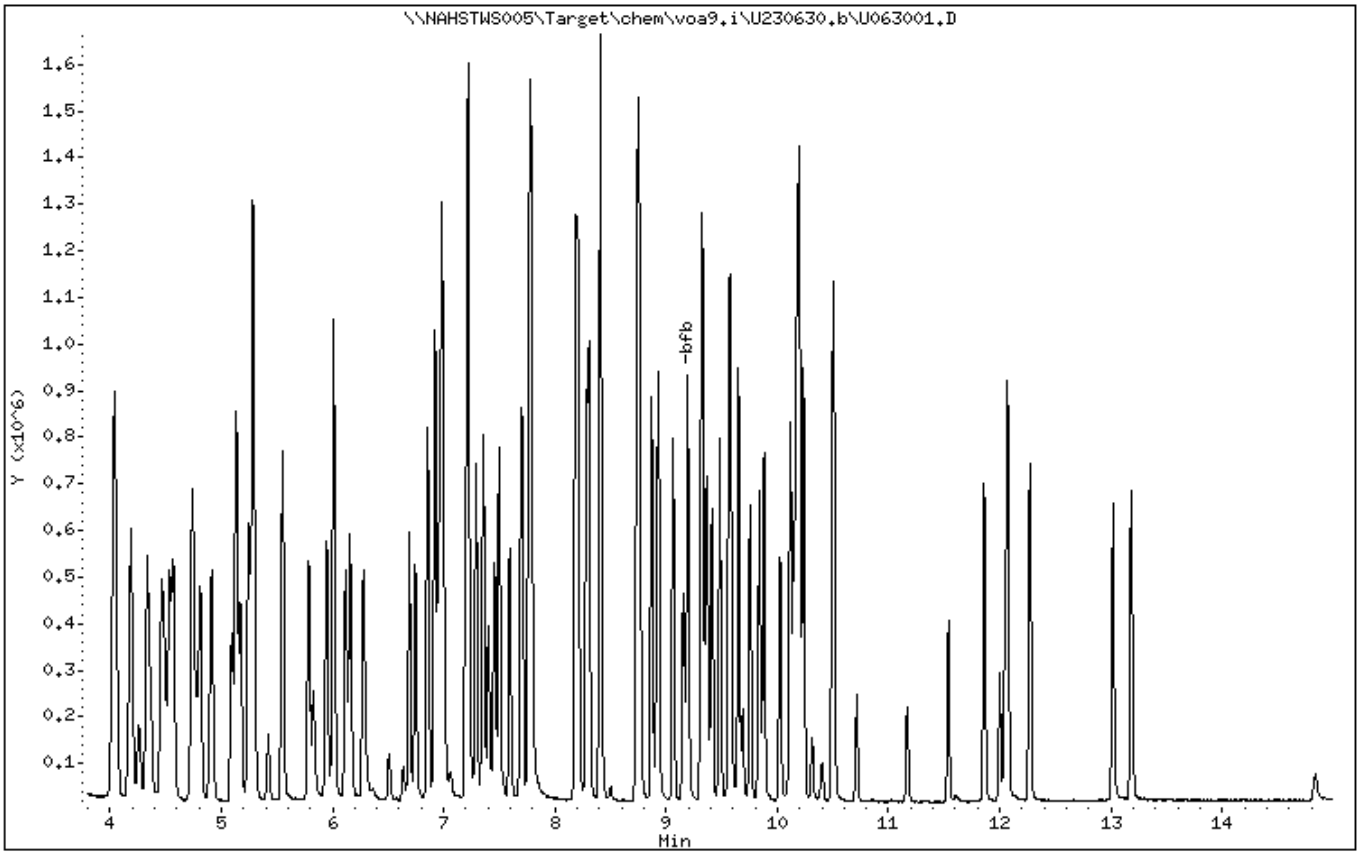
Date : 30-JUN-2023 10:37

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D Page 2

Date : 30-JUN-2023 10:37

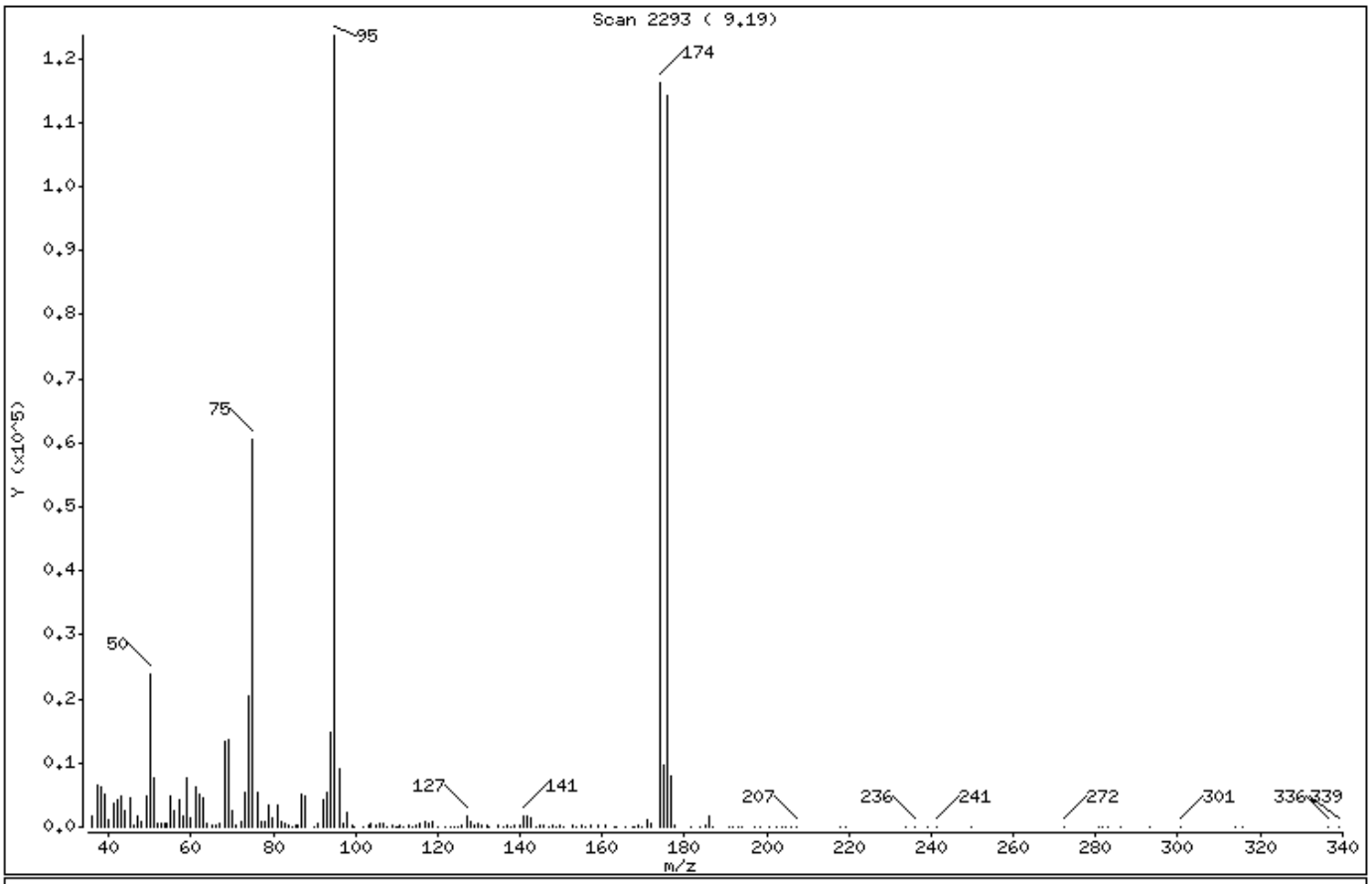
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.20
75	30.00 - 60.00% of mass 95	48.92
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.97
175	5.00 - 9.00% of mass 174	7.70 (8.20)
176	95.00 - 101.00% of mass 174	92.46 (98.40)
177	5.00 - 9.00% of mass 176	6.38 (6.90)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D Page 3

Date : 30-JUN-2023 10:37

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U063001.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 171

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1721	77.90	855	121.70	55	170.90	1055
37.00	6517	78.90	3470	122.90	89	171.90	686
38.00	6111	79.90	1286	123.90	124	173.90	116144
39.00	5069	80.90	3412	124.80	93	175.00	9523
39.90	1251	81.80	890	125.90	145	175.90	114280
41.00	3820	82.90	492	126.90	1781	176.90	7881
42.00	4246	83.80	161	127.90	914	177.70	299
43.00	4940	84.70	139	128.80	263	181.60	63
44.00	2686	85.30	260	129.80	495	183.60	66
45.00	4598	85.80	189	130.70	280	184.90	152
45.90	362	86.90	5093	131.80	167	185.90	1621
47.00	1603	87.90	4875	132.60	69	187.10	67
47.90	882	89.90	91	134.70	206	190.90	66
49.00	4839	91.00	605	135.80	105	191.70	67
50.00	23728	92.00	4147	136.70	305	193.10	56
51.00	7551	93.00	5300	137.60	89	193.90	52
51.90	508	94.00	14708	138.80	143	197.00	55
52.90	487	95.00	123600	139.90	205	198.50	55
53.80	502	96.00	9036	140.90	1761	200.40	56
54.20	517	97.00	469	141.90	1697	202.30	72
55.00	4850	98.00	2132	142.80	1407	203.60	82
56.00	2602	99.00	243	144.10	119	204.80	55
57.00	4165	99.70	52	144.80	193	206.10	63
58.10	1596	101.80	91	145.80	271	207.10	127
59.00	7572	103.00	213	146.90	51	218.10	88
60.00	1560	103.80	645	147.90	325	219.20	74
61.00	6241	105.00	341	148.70	137	233.70	60
62.00	5241	105.90	533	149.90	193	235.90	113
63.00	4549	106.90	450	150.60	52	239.20	56
64.00	694	107.70	106	152.80	190	241.30	87
64.90	406	109.00	224	153.80	133	249.90	84
65.90	178	109.70	67	155.00	368	272.40	74
67.10	694	110.10	110	156.00	123	280.80	56
68.00	13358	110.80	171	157.00	291	281.80	52
69.00	13699	111.80	89	158.80	196	282.90	73

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063001.D

Date : 30-JUN-2023 10:37

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U063001.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 171

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	2446	112.80	163	160.90	194	286.10	54
71.00	300	113.90	94	162.90	78	293.10	64
72.00	720	114.80	306	163.50	74	300.70	65
73.00	5460	115.80	444	165.80	93	314.10	53
74.00	20368	116.90	765	167.20	79	315.90	52
75.00	60464	117.90	700	167.70	131	336.60	86
76.00	5376	118.90	741	168.80	143	339.10	81
77.00	860	120.10	88	169.40	140		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063003.D Page 1
Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063003.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 30-JUN-2023 11:21
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\8260C.m
Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	570949	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	225849	50.0000	42.82
3	Chloromethane	50	1.295	1.295	(0.269)	352399	50.0000	40.67
5	Vinyl Chloride	62	1.378	1.378	(0.286)	269457	50.0000	44.61
6	Bromomethane	94	1.617	1.617	(0.336)	163021	50.0000	52.58
7	Chloroethane	64	1.700	1.700	(0.353)	184620	50.0000	45.38
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	341297	50.0000	49.20
9	Acrolein	56	2.266	2.266	(0.471)	29970	100.000	98.89
10	Acetone	43	2.408	2.408	(0.500)	224215	100.000	115.16
11	1,1-Dichloroethene	96	2.333	2.333	(0.485)	201718	50.0000	46.54
15	Iodomethane	142	2.468	2.468	(0.513)	439173	100.000	124.10
16	Acrylonitrile	53	3.064	3.064	(0.636)	207484	100.000	97.99
17	Methylene Chloride	84	2.795	2.795	(0.580)	266826	50.0000	51.27
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	683367	50.0000	51.41
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1229873	100.000	106.15
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	227601	50.0000	48.29
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1506362	100.000	104.84
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	412286	50.0000	46.02
24	2-Butanone	43	4.268	4.268	(0.886)	249100	100.000	95.69
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	305573	50.0000	51.58

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	273748	50.0000	48.54
28 Chloroform	83	4.571	4.571 (0.949)	454836	50.0000	48.79

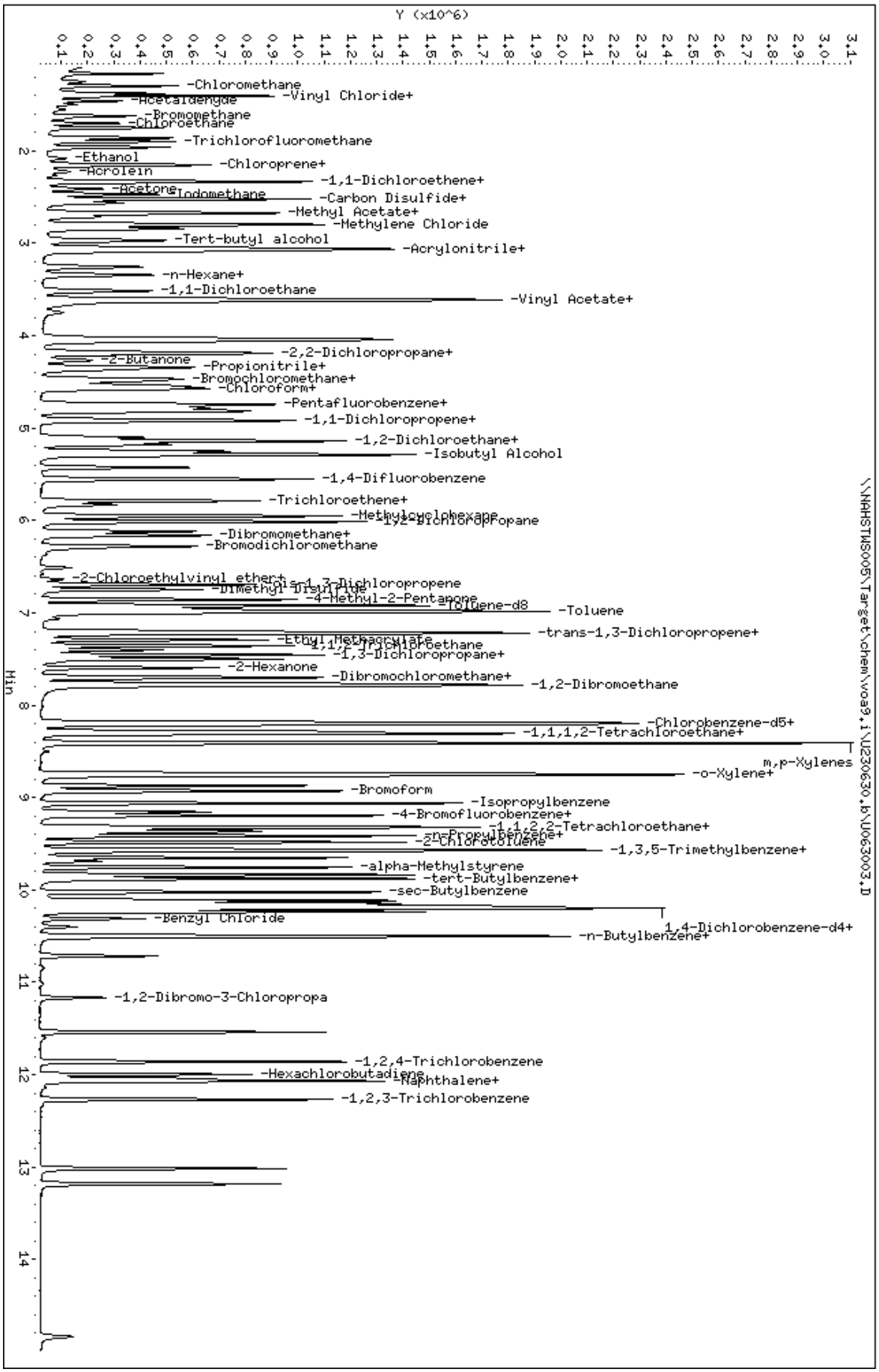
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	159012	50.0000	50.41
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	232084	50.0000	48.41
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	341893	50.0000	48.11
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	291031	50.0000	48.98
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	368255	50.0000	52.48
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	282541	50.0000	51.77
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	257523	50.0000	49.65
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	810639	50.0000	
	37 Benzene	78	5.137	5.137	(0.925)	991875	50.0000	50.77
	38 Trichloroethene	130	5.790	5.790	(1.043)	275939	50.0000	48.73
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	340975	50.0000	55.95
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	4446	100.000	30.16
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	267146	50.0000	51.22
	44 Dibromomethane	93	6.120	6.120	(1.102)	177026	50.0000	53.12
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	574543	100.000	100.68
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	413728	50.0000	50.65
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	783642	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	872609	50.0000	49.19
	50 Toluene	91	6.982	6.982	(0.853)	1072372	50.0000	50.45
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	345894	50.0000	50.46
	52 2-Hexanone	43	7.593	7.593	(0.928)	383872	100.000	96.59
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	223497	50.0000	50.53
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	466723	50.0000	51.65
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	307643	50.0000	58.62
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	236723	50.0000	45.71
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	285138	50.0000	52.26
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	190500	50.0000	45.76
	59 Chlorobenzene	112	8.211	8.211	(1.003)	761012	50.0000	50.16
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	282840	50.0000	54.25
	61 Ethylbenzene	106	8.305	8.305	(1.015)	345941	50.0000	48.99
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	857337	100.000	102.63
	63 o-Xylene	106	8.747	8.747	(1.069)	420369	50.0000	50.94
	64 Styrene	104	8.762	8.762	(1.071)	720960	50.0000	55.05
	66 Bromoform	173	8.920	8.920	(1.090)	207005	50.0000	58.44
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	959274	50.0000	48.39
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	378143	50.0000	48.84
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	356176	50.0000	50.98
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	411538	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	347532	50.0000	51.03
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1030698	50.0000	47.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	337321	50.0000	48.57
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	704565	50.0000	47.57
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	710809	50.0000	46.84
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	815835	50.0000	48.57
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	662062	50.0000	45.51
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	727455	50.0000	46.94
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	840037	50.0000	45.54
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	721422	50.0000	46.68
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	548678	50.0000	46.52
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	574418	50.0000	45.68
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	601703	50.0000	45.48
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	557028	50.0000	47.10

89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165 (1.098)	55729	50.0000	49.33
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	369976	50.0000	45.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	154654	50.0000	47.08
92	Naphthalene	128	12.069	12.069	(1.186)	941406	50.0000	49.82
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	354753	50.0000	44.61
M 94	1,2-Dichloroethylene (total)	96				501349	100.000	(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	73293	1000.00	646.49
141	Cyclohexane	56	4.781	4.781	(0.993)	283739	50.0000	40.65
138	Freon TF	101	2.333	2.333	(0.485)	179852	50.0000	46.90
140	1,3-Butadiene	54	1.404	1.404	(0.292)	234941	50.0000	43.45
147	Methylcyclohexane	55	5.947	5.947	(1.071)	574721	50.0000	51.10
146	Methyl Acetate	43	2.712	2.712	(0.563)	225825	50.0000	46.97
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	550400	1000.00	1043.56
149	Isopropyl Alcohol	45	2.562	2.562	(0.532)	354234	1000.00	949.06
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	54878	50.0000	60.82
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	855082	1000.00	1152.68
13	Acetonitrile	39	2.671	2.671	(0.555)	295836	500.000	478.58
14	Allyl Chloride	41	2.671	2.671	(0.555)	693111	50.0000	46.75
25	Methacrylonitrile	41	4.496	4.496	(0.934)	165083	50.0000	48.93
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	250766	50.0000	51.08
4	Propionitrile	54	4.339	4.339	(0.901)	386988	500.000	469.05
136	n-Hexane	57	3.342	3.342	(0.694)	215006	50.0000	45.21
194	Acetaldehyde	44	1.460	1.460	(0.303)	171866	200.000	218.25(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	314579	50.0000	52.09
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	284170	50.0000	48.36
23	Chloroprene	53	2.157	2.157	(0.448)	85720	50.0000	47.07
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	383680	50.0000	53.99
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	753641	50.0000	47.64
156	Diisopropyl ether	45	3.623	3.623	(0.752)	795771	50.0000	49.98
162	Butyl acrylate	55	8.732	8.732	(1.067)	465258	50.0000	50.19
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	206056	50.0000	52.00

QC Flag Legend

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



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Date : 30-JUN-2023 11:21
Client ID: CCV
Sample Info: CCV;CCV;2;;;
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063003.D
Inj Date : 30-JUN-2023 11:21
InstruID : VOA9.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

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03-Jul-2023
13:15
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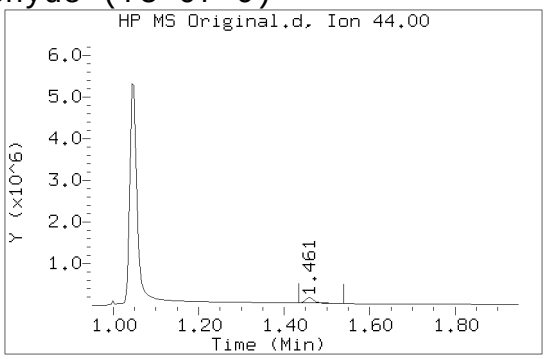
pham



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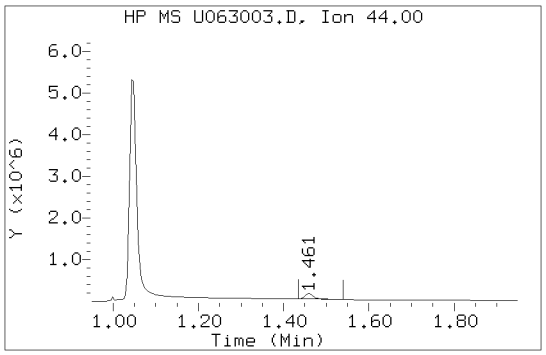

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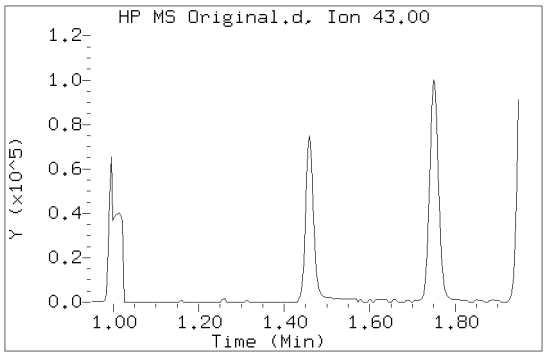

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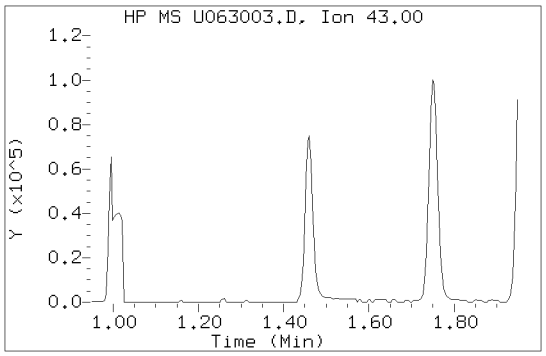

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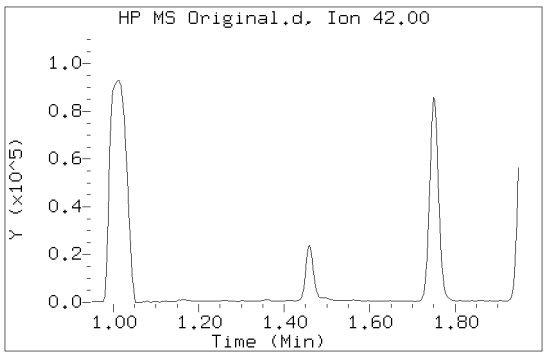

AFTER

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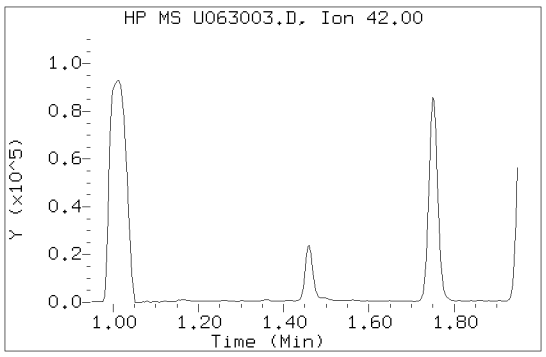

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Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063004.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 30-JUN-2023 11:44
Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\8260C.m
Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	662200	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	267053	48.0338	48.03
$ 35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.059)	298799	49.6765	49.67
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	895676	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	814665	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	996397	54.0398	54.03
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	347214	47.7546	47.75
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	413210	50.0000	

01212754

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063004.D

Date : 30-JUN-2023 11:44

Client ID: CCB

Instrument: VOA9.i

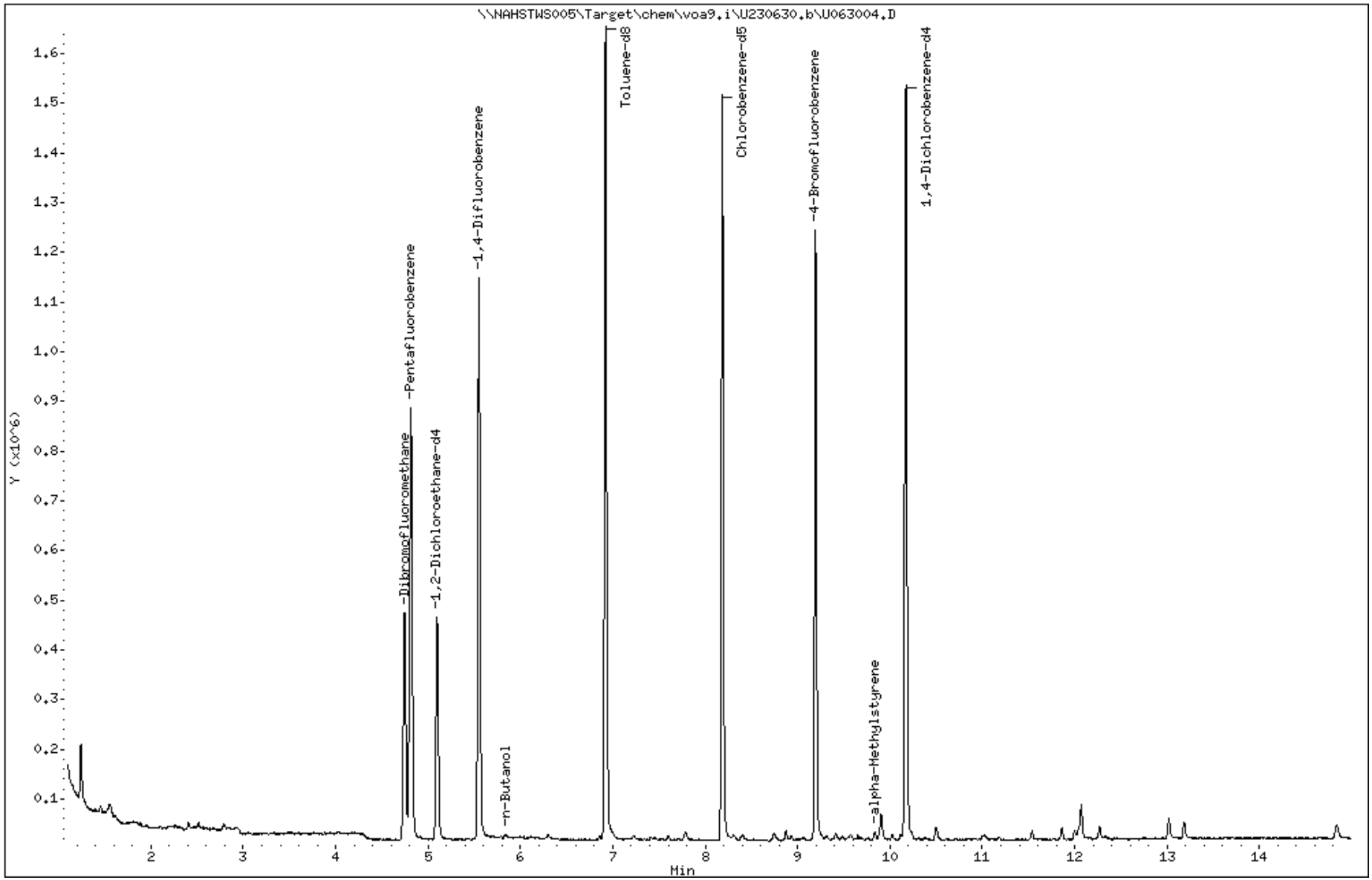
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 30-JUN-2023 11:44
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063005.D Page 1
Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063005.D
Lab Smp Id: VLCSW-230629 Client Smp ID: VLCSW-230629
Inj Date : 30-JUN-2023 12:06
Operator : PC Inst ID: VOA9.i
Smp Info : VLCSW-230629;VLCSW-230629;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\8260C.m
Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	594047	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.164	(0.241)	100245	18.3148	18.31
3 Chloromethane	50	1.295	1.295	(0.269)	161402	17.1516	17.15
5 Vinyl Chloride	62	1.374	1.378	(0.285)	119410	19.0037	19.00
6 Bromomethane	94	1.618	1.617	(0.336)	78356	23.3045	23.30
7 Chloroethane	64	1.696	1.700	(0.352)	82400	19.4673	19.46
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	147464	20.4337	20.43
9 Acrolein	56	2.262	2.266	(0.470)	13009	41.2578	41.25
10 Acetone	43	2.405	2.408	(0.499)	109040	50.7887	50.78
11 1,1-Dichloroethene	96	2.330	2.333	(0.484)	90339	20.0345	20.03
15 Iodomethane	142	2.465	2.468	(0.512)	174360	55.2675	55.26
16 Acrylonitrile	53	3.065	3.064	(0.636)	87907	39.9031	39.90
17 Methylene Chloride	84	2.791	2.795	(0.580)	121539	21.8683	21.86
18 Methyl tert-butyl ether	73	3.080	3.079	(0.640)	294653	21.3090	21.30
19 Carbon Disulfide	76	2.517	2.521	(0.523)	547565	45.4239	45.42
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	102085	20.8174	20.81
21 Vinyl Acetate	43	3.604	3.608	(0.749)	629798	42.1315	42.13
22 1,1-Dichloroethane	63	3.515	3.514	(0.730)	180304	19.3474	19.34
24 2-Butanone	43	4.264	4.268	(0.886)	107732	39.7762	39.77
26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	131245	21.5293	21.52

27 cis-1,2-Dichloroethene	96	4.193	4.197 (0.871)	120377	20.5189	20.51
28 Chloroform	83	4.572	4.571 (0.949)	201756	20.8008	20.80

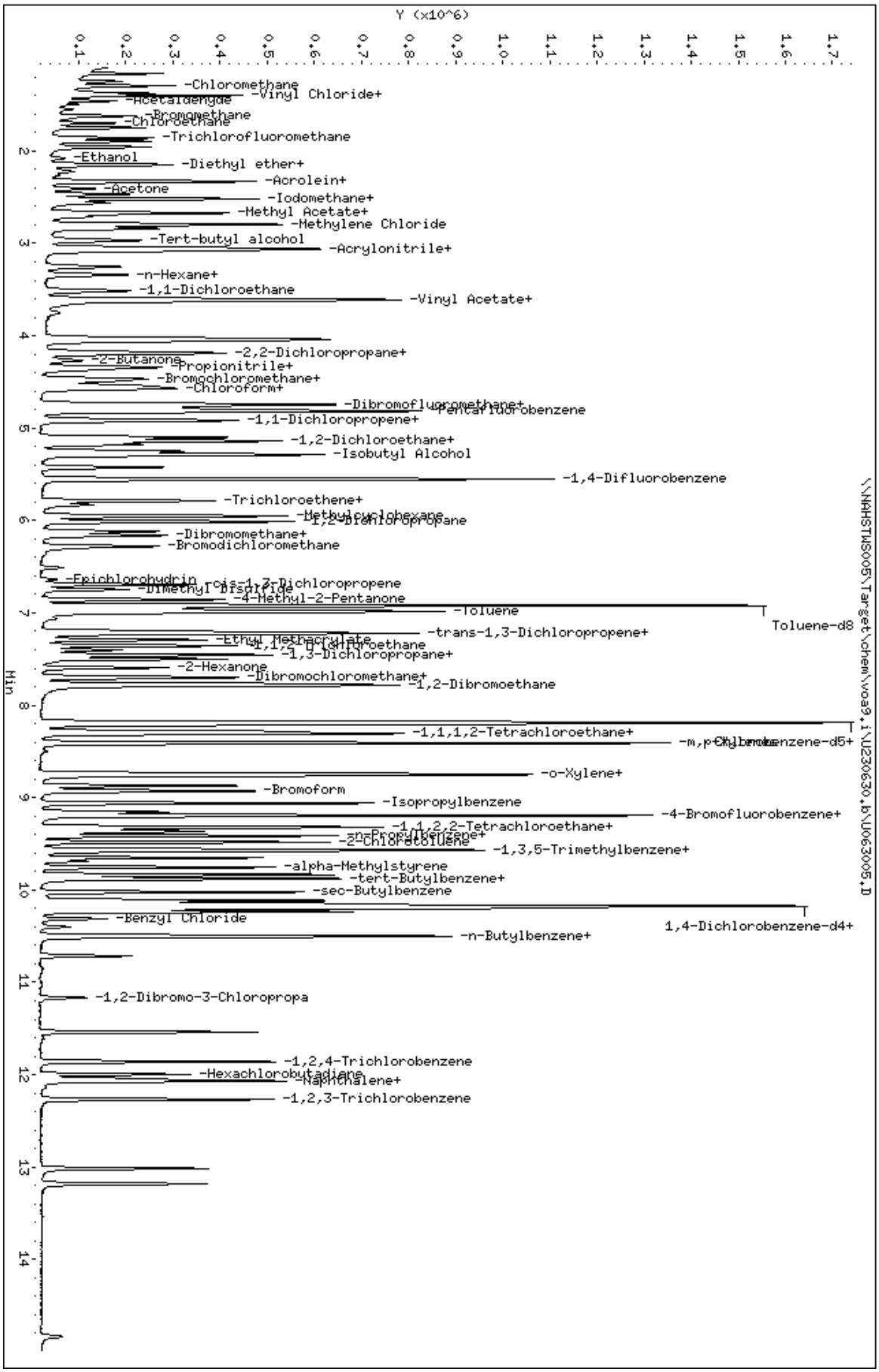
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.470	(0.928)	65683	20.0155	20.01
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	243732	48.8742	48.87
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	147429	19.9427	19.94
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	128262	20.7608	20.76
	33 1,2-Dichloroethane	62	5.175	5.179	(0.932)	164437	22.5370	22.53
	34 Carbon Tetrachloride	117	4.909	4.913	(0.884)	120053	21.1548	21.15
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	262736	48.6787	48.67
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	842994	50.0000	
	37 Benzene	78	5.138	5.137	(0.925)	437611	21.5432	21.54
	38 Trichloroethene	130	5.790	5.790	(1.043)	124798	21.1966	21.19
	39 Bromodichloromethane	83	6.277	6.281	(1.130)	143541	22.6533	22.65
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	114481	21.1077	21.10
	44 Dibromomethane	93	6.120	6.120	(1.102)	76426	22.0539	22.05
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	234416	40.5784	40.57
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	165204	20.6279	20.62
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	793296	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	929164	51.7508	51.75
	50 Toluene	91	6.982	6.982	(0.853)	478683	22.2476	22.24
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	134981	20.1990	20.19
	52 2-Hexanone	43	7.593	7.593	(0.928)	159760	39.7108	39.71
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	93845	20.9622	20.96
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	198618	21.7147	21.71
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	124786	23.4918	23.49
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	110570	21.0923	21.09
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	119949	21.7196	21.71
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	86451	19.9717	19.97
	59 Chlorobenzene	112	8.208	8.211	(1.003)	330066	21.4943	21.49
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	118699	22.4900	22.49
	61 Ethylbenzene	106	8.305	8.305	(1.015)	152740	21.3707	21.37
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	376950	44.5781	44.57
	63 o-Xylene	106	8.748	8.747	(1.069)	182395	21.8343	21.83
	64 Styrene	104	8.763	8.762	(1.071)	304448	22.9652	22.96
	66 Bromoform	173	8.920	8.920	(1.090)	79893	22.2821	22.28
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	424924	21.1780	21.17
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	157387	20.1922	20.19
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	367767	52.0234	52.02
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	414373	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	138399	20.1834	20.18
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	456042	20.9818	20.98
	74 Bromobenzene	156	9.317	9.317	(0.916)	146843	21.0028	21.00
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	316291	21.2114	21.21
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	318302	20.8325	20.83
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	361670	21.3850	21.38
	78 tert-Butylbenzene	119	9.839	9.838	(0.967)	295396	20.1698	20.16
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	333237	21.3585	21.35
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	360224	19.3950	19.39
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	315148	20.2539	20.25
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	251335	21.1654	21.16
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	261320	20.6397	20.63
	87 n-Butylbenzene	91	10.491	10.494	(1.031)	257731	19.3484	19.34
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	250426	21.0334	21.03
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	21049	18.5063	18.50

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	162650	19.8611	19.86
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	60607	18.3256	18.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	384610	20.2183	20.21
	93 1,2,3-Trichlorobenzene	180	12.268	12.267	(1.206)	158219	19.7626	19.76
M	94 1,2-Dichloroethylene (total)	96				222462	41.3364	41.33
M	95 Xylenes (total)	106				559345	66.4124	66.41
	135 1,4-Dioxane	88	6.169	6.168	(1.281)	30571	259.174	259.17
	141 Cyclohexane	56	4.782	4.781	(0.993)	127915	17.9333	17.93
	138 Freon TF	101	2.334	2.333	(0.485)	77524	19.4312	19.43
	140 1,3-Butadiene	54	1.400	1.404	(0.291)	103151	18.3352	18.33
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	252666	21.6065	21.60
	146 Methyl Acetate	43	2.712	2.712	(0.563)	96564	19.3054	19.30
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	236850	428.703	428.70
	149 Isopropyl Alcohol	45	2.562	2.562	(0.532)	151861	391.046	391.04
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	20096	22.0010	22.00
	12 Isobutyl Alcohol	43	5.288	5.287	(1.098)	360237	466.730	466.73
	13 Acetonitrile	39	2.671	2.671	(0.555)	131910	205.100	205.09
	14 Allyl Chloride	41	2.671	2.671	(0.555)	301567	19.5532	19.55
	25 Methacrylonitrile	41	4.497	4.496	(0.934)	73007	20.8012	20.80
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	106595	20.8693	20.86
	4 Propionitrile	54	4.339	4.339	(0.901)	169897	197.920	197.91(a)
	136 n-Hexane	57	3.342	3.342	(0.694)	89343	18.4357	18.43
	194 Acetaldehyde	44	1.456	1.460	(0.303)	42073	51.3520	51.35(M)
	131 Methyl Acrylate	55	4.369	4.369	(0.907)	132741	21.1283	21.12
	200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	82831	17.6363	17.63
	23 Chloroprene	53	2.154	2.157	(0.447)	36750	19.3963	19.39(M)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	160662	21.7416	21.74
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	344707	21.6415	21.64
	156 Diisopropyl ether	45	3.619	3.623	(0.752)	352429	21.2765	21.27
	162 Butyl acrylate	55	8.733	8.732	(1.067)	190382	20.2884	20.28
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	87690	23.6190	23.61

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230630,b\U063005,D
Date : 30-JUN-2023 12:06
Client ID: VLCSW-230629
Sample Info: VLCSW-230629;VLCSW-230629;3;;LCS
Purge Volume: 5.0
Column phase: DB624

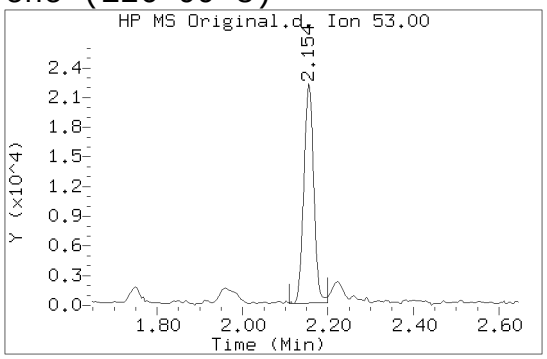
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063005.D
Inj Date : 30-JUN-2023 12:06
InstruID : VOA9.i
LabSampID : VLCSW-230629

Chloroprene (126-99-8)

Reason Code:

BEFORE
MASS
53
AREA
36750
HEIGHT
22199
03-Jul-2023
13:15
linh
pham



AFTER
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53
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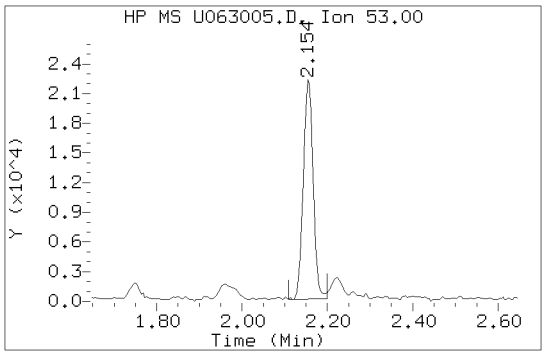

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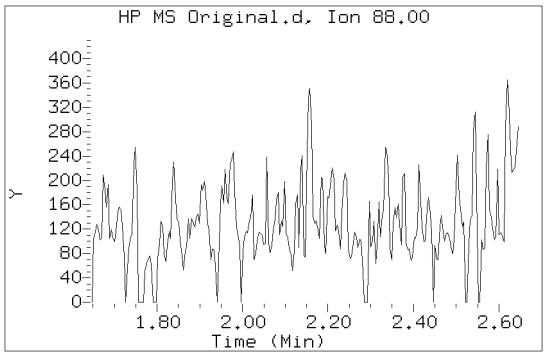

AFTER
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AREA
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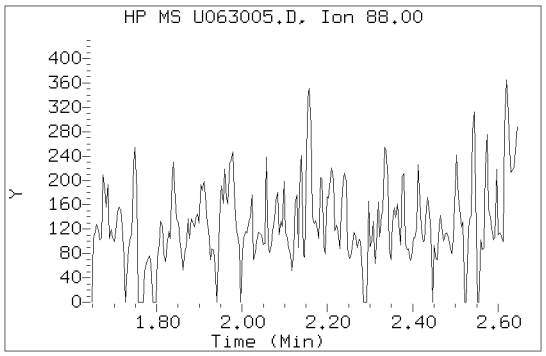

Acetaldehyde (75-07-0)

Reason Code:

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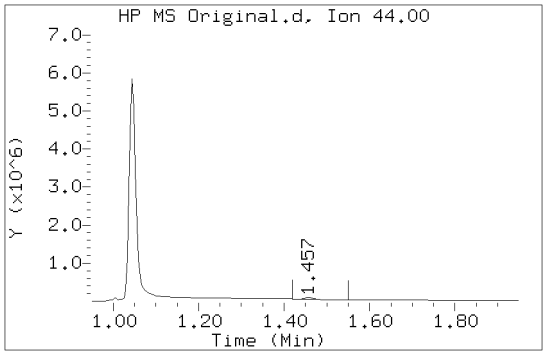
AREA
42073
HEIGHT
52916
03-Jul-2023
13:15
linh
pham



AFTER
MASS
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AREA
42073
HEIGHT
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03-Jul-2023
13:15
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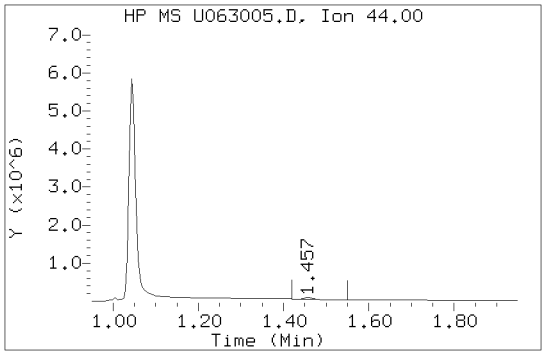

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03-Jul-2023
13:15
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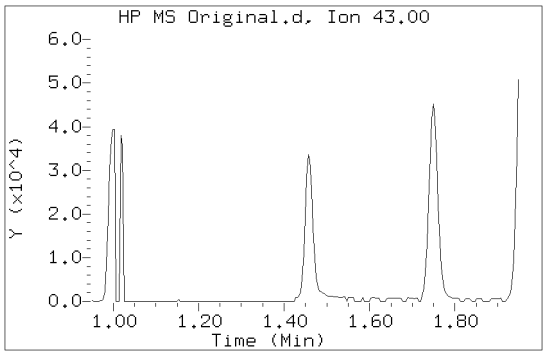

AFTER
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AREA
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HEIGHT
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03-Jul-2023
13:15
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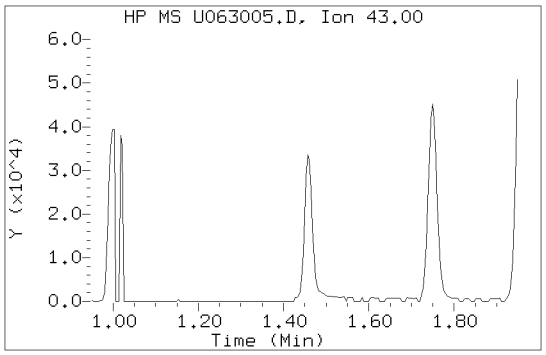

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Inj Date : 30-JUN-2023 12:06
InstruID : VOA9.i
LabSampID : VLCSW-230629

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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42
AREA
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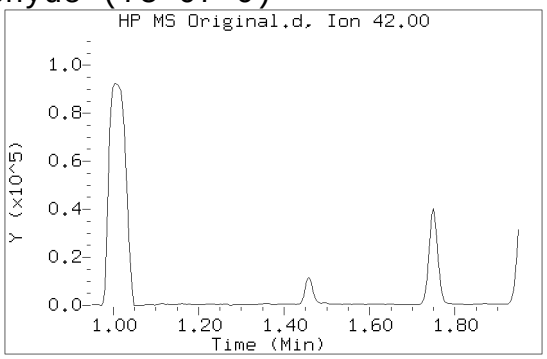
HEIGHT
0
03-Jul-2023
13:15
linh
pham



AFTER

MASS
42
AREA
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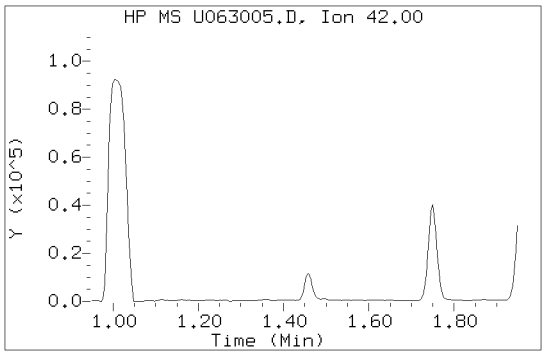
HEIGHT
0
03-Jul-2023
13:15
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063007.D Page 1
Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063007.D
Lab Smp Id: VBLKW-230630 Client Smp ID: VBLKW-230630
Inj Date : 30-JUN-2023 12:50
Operator : PC Inst ID: VOA9.i
Smp Info : VBLKW-230630;VBLKW-230630;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\8260C.m
Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	642689	50.0000	
$ 30 Dibromofluoromethane	113	4.752	4.748	(0.986)	261462	48.4587	48.45
$ 35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	294440	50.4484	50.44
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	857824	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	795802	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	965746	53.6189	53.61
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	338922	47.7183	47.71
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	405764	50.0000	

01212765

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063007.D

Date : 30-JUN-2023 12:50

Client ID: VBLKW-230630

Instrument: VOA9.i

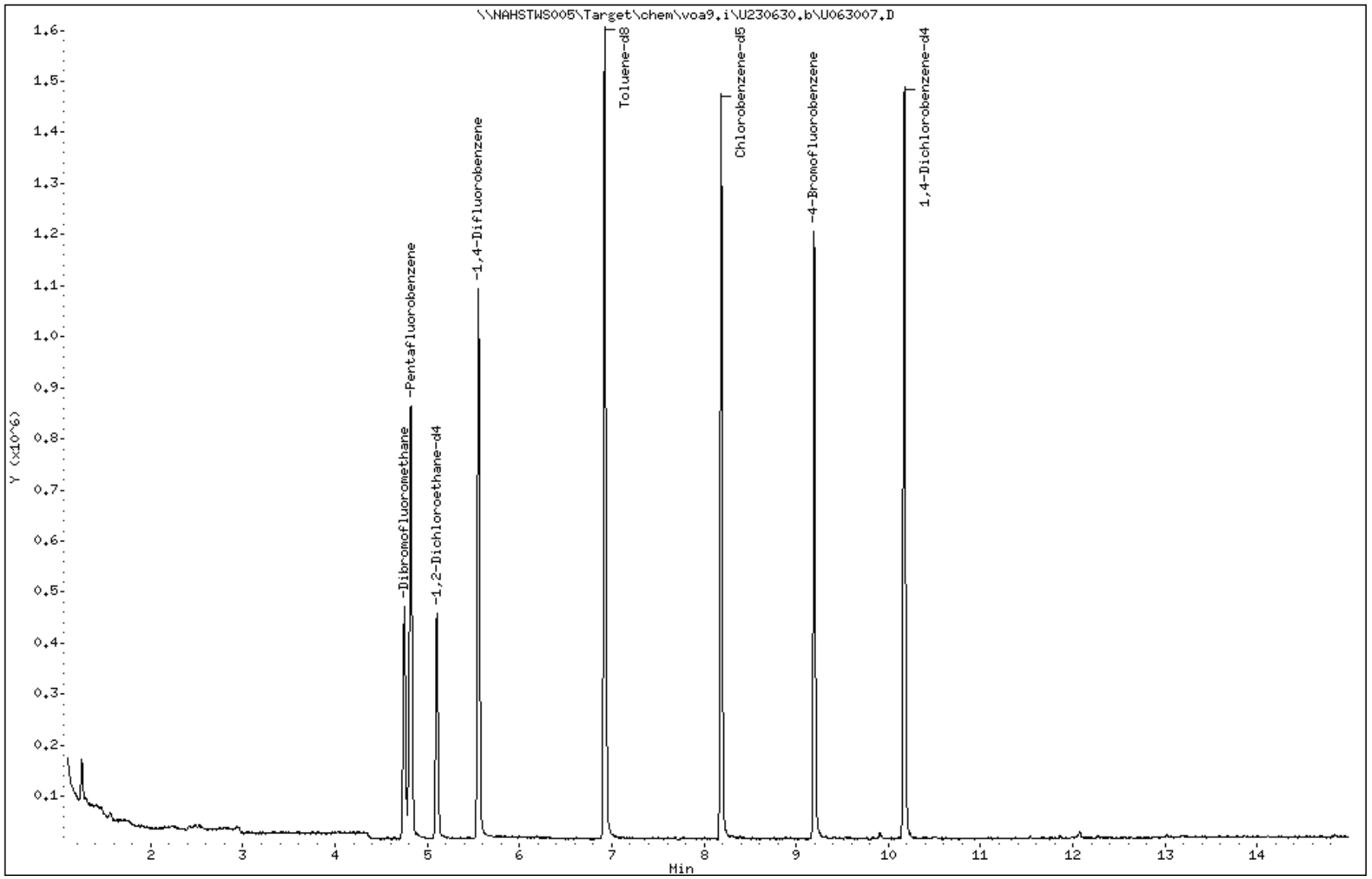
Sample Info: VBLKW-230630;VBLKW-230630;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 30-JUN-2023 12:50
InstruID : VOA9.i
LabSampID : VBLKW-230630

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063008.D Page 1
Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063008.D
Lab Smp Id: HS23061900-01 Client Smp ID: HS23061900-01
Inj Date : 30-JUN-2023 13:13
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061900-01;HS23061900-01;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\8260C.m
Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

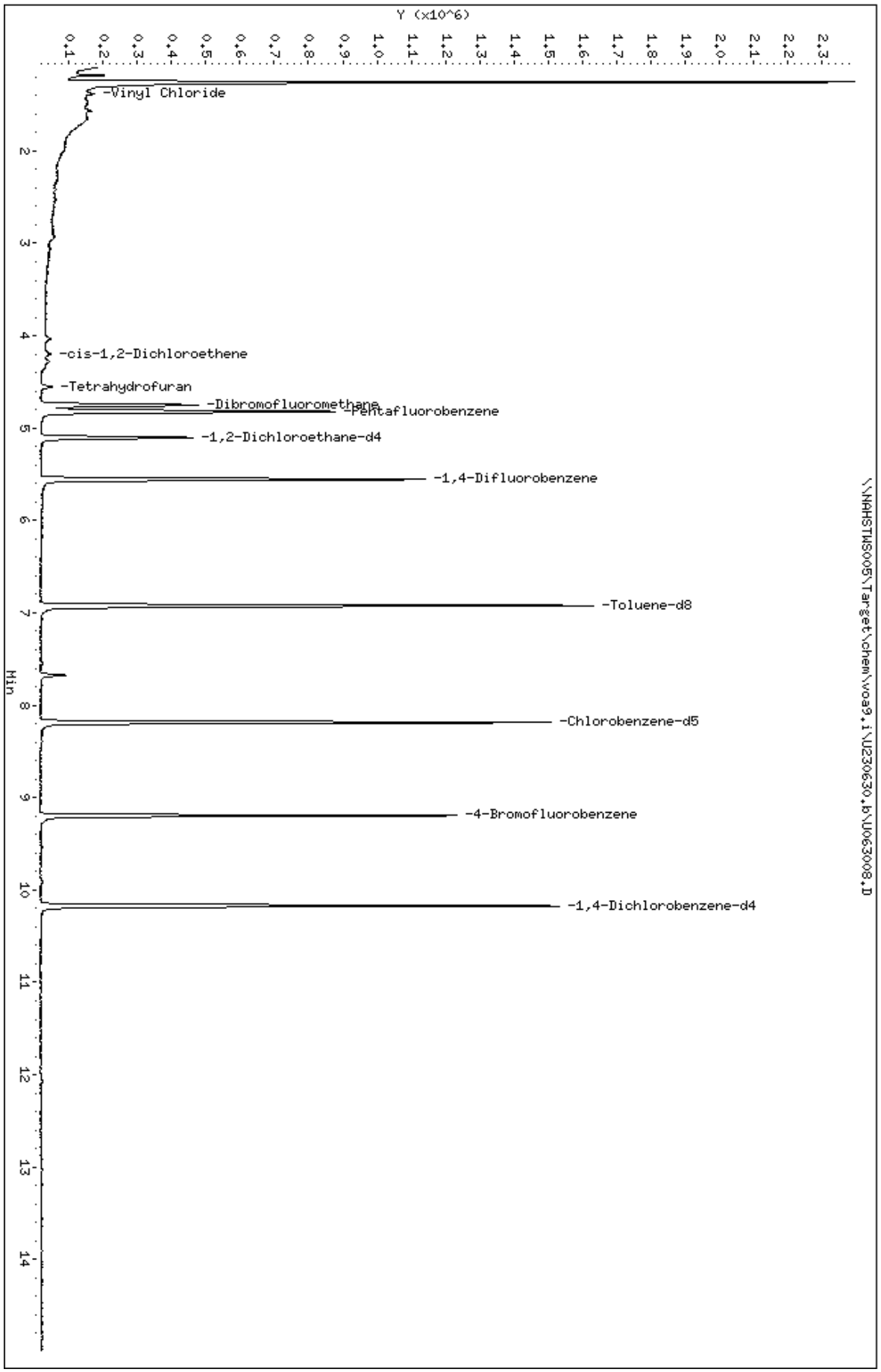
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.815	(1.000)	647463	50.0000	
	5 Vinyl Chloride	62	1.385	1.378	(0.288)	18635	2.72103	2.72(a)
	27 cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	7803	1.22033	1.22(a)
$	30 Dibromofluoromethane	113	4.751	4.748	(0.986)	269227	49.5369	49.53
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	299250	50.9005	50.90
*	36 1,4-Difluorobenzene	114	5.557	5.554	(1.000)	880360	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	813760	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	992321	53.8786	53.87
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	341385	46.9909	46.99
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	416522	50.0000	
M	94 1,2-Dichloroethylene (total)	96				7803	1.22033	1.22(a)

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063008.D
Date : 30-JUN-2023 13:13
Client ID: HS23061900-01
Sample Info: HS23061900-01;HS23061900-01;;;
Purge Volume: 5.0
Column phase: DB624

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

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063008.D Page 2

Date : 30-JUN-2023 13:13

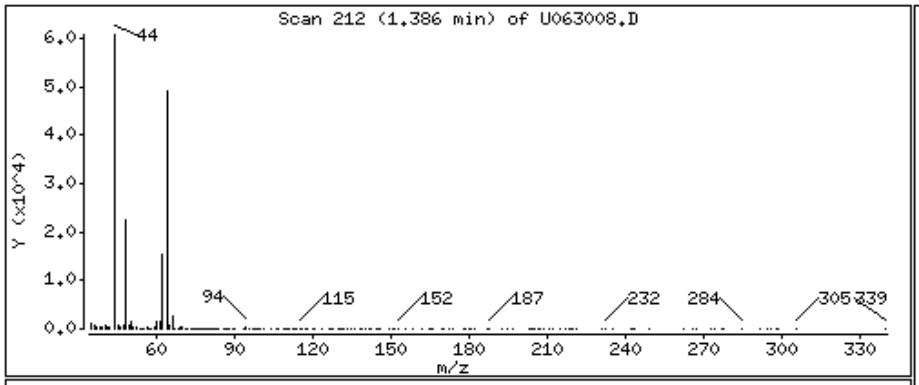
Client ID: HS23061900-01 Instrument: VOA9.i

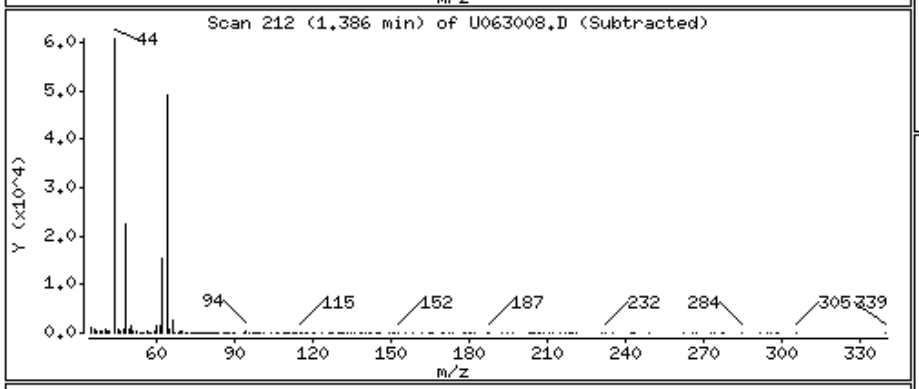
Sample Info: HS23061900-01;HS23061900-01;;;

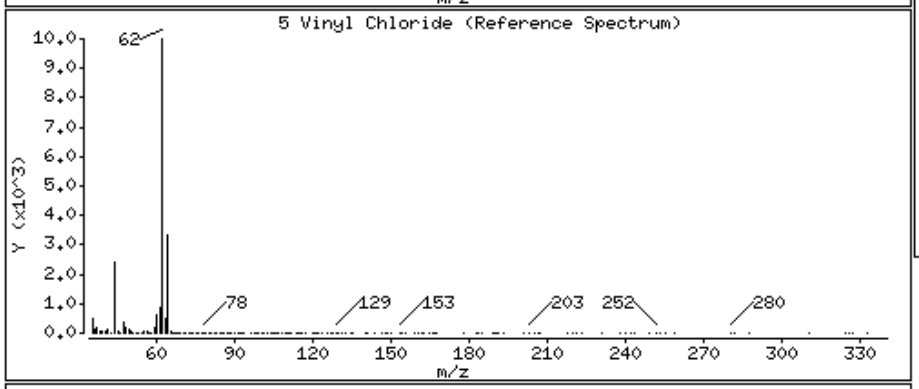
Purge Volume: 5.0 Operator: PC

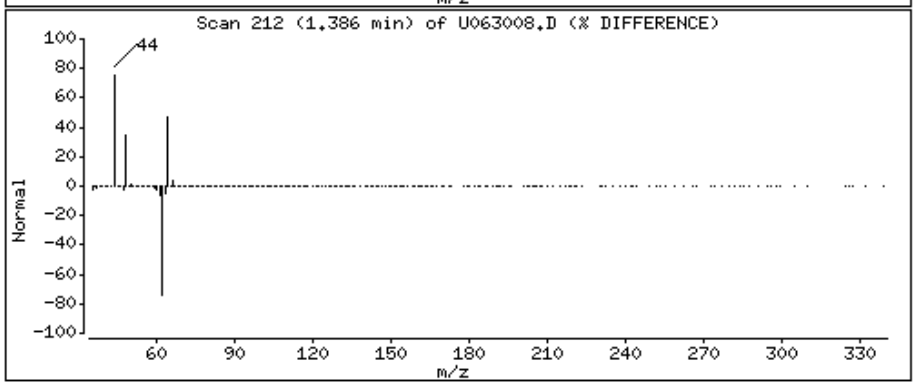
Column phase: DB624 Column diameter: 0.18

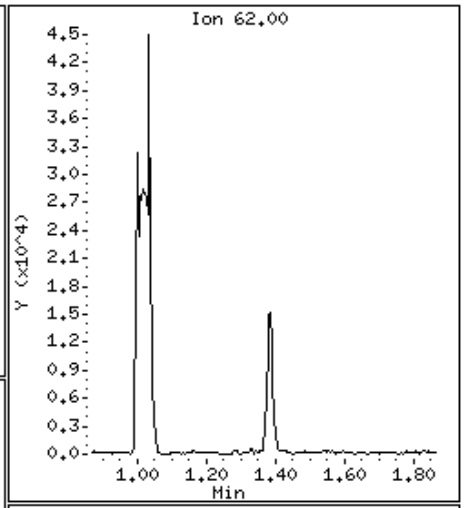
5 Vinyl Chloride Concentration: 2.72 ug/l

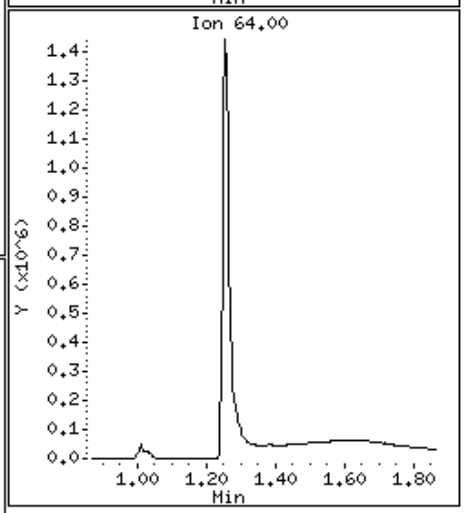












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063008.D Page 3

Date : 30-JUN-2023 13:13

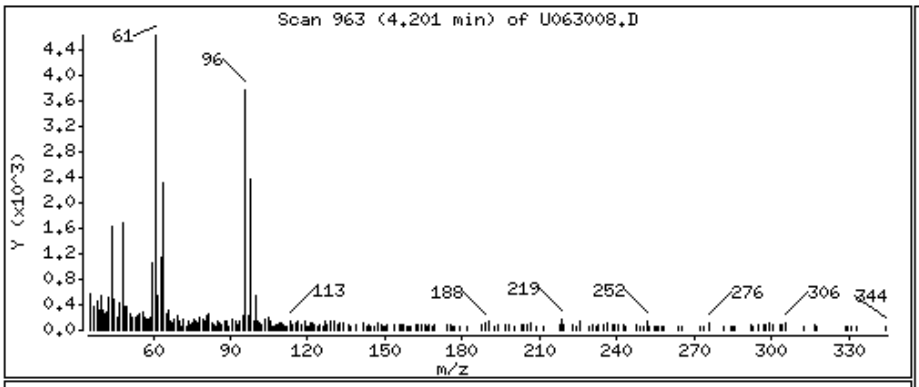
Client ID: HS23061900-01 Instrument: VOA9.i

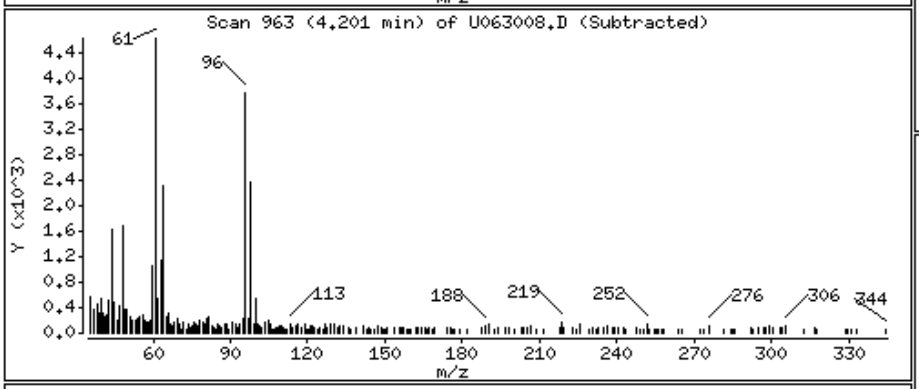
Sample Info: HS23061900-01;HS23061900-01;;;

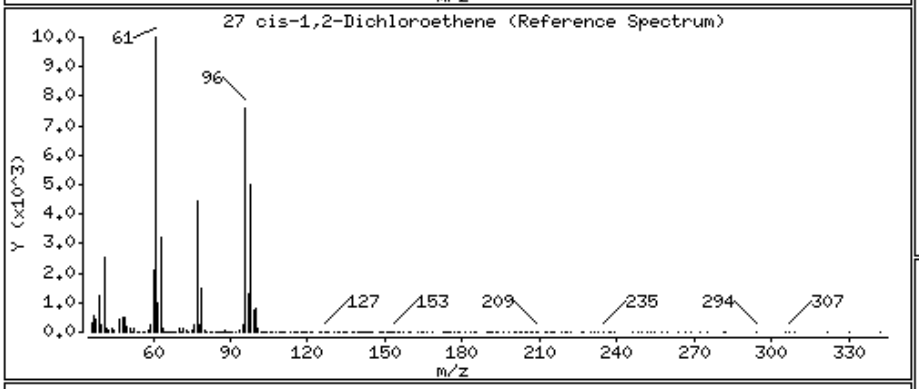
Purge Volume: 5.0 Operator: PC

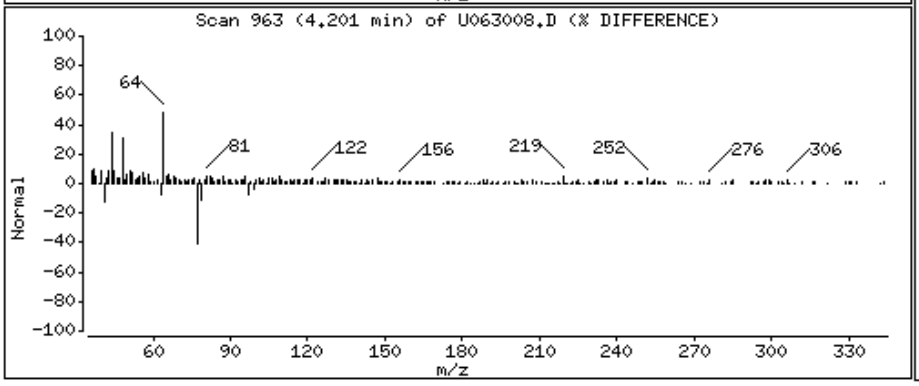
Column phase: DB624 Column diameter: 0.18

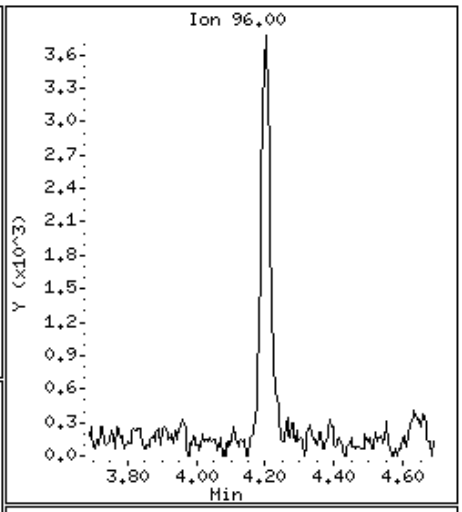
27 cis-1,2-Dichloroethene Concentration: 1.22 ug/l

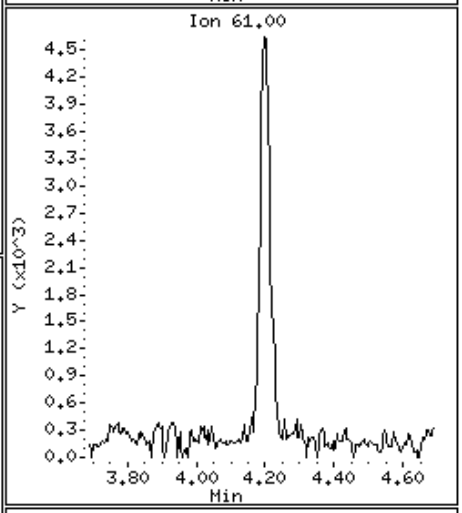


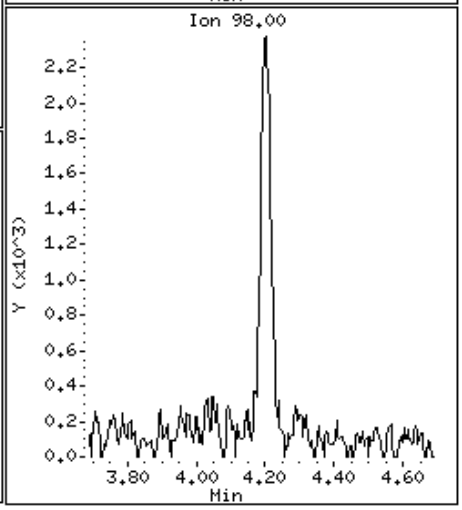












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NO MANUAL INTEGRATIONS

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Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063018.D
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Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17 QC Sample: MS
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.815	(1.000)	634087	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.164	(0.240)	93162	15.9563	3989.06
3	Chloromethane	50	1.291	1.295	(0.268)	169420	16.8444	4211.08
5	Vinyl Chloride	62	1.370	1.378	(0.285)	236348	35.2388	8809.71
6	Bromomethane	94	1.614	1.617	(0.335)	80375	22.3238	5580.93
7	Chloroethane	64	1.693	1.700	(0.352)	83540	18.4903	4622.57
8	Trichlorofluoromethane	101	1.891	1.895	(0.393)	172345	22.3734	5593.33
9	Acrolein	56	2.262	2.266	(0.470)	10097	30.0004	7500.09
10	Acetone	43	2.405	2.408	(0.500)	79694	32.9766	8244.15
11	1,1-Dichloroethene	96	2.326	2.333	(0.483)	103374	21.4777	5369.41
15	Iodomethane	142	2.461	2.468	(0.512)	107048	36.2506	9062.64
16	Acrylonitrile	53	3.061	3.064	(0.636)	86322	36.7094	9177.34
17	Methylene Chloride	84	2.791	2.795	(0.580)	227448	39.1140	9778.49
18	Methyl tert-butyl ether	73	3.076	3.079	(0.639)	271099	18.3676	4591.90
19	Carbon Disulfide	76	2.513	2.521	(0.522)	530224	41.2079	10301.97
20	trans-1,2-Dichloroethene	96	3.053	3.057	(0.635)	104551	19.9740	4993.50
21	Vinyl Acetate	43	3.604	3.608	(0.749)	576639	36.1395	9034.86
22	1,1-Dichloroethane	63	3.511	3.514	(0.730)	182526	18.3490	4587.25
24	2-Butanone	43	4.264	4.268	(0.886)	89562	30.9795	7744.86
26	2,2-Dichloropropane	77	4.178	4.182	(0.868)	137371	21.1190	5279.75

27 cis-1,2-Dichloroethene	96	4.193	4.197 (0.871)	600657	95.9201	23980.03
28 Chloroform	83	4.568	4.571 (0.949)	197093	19.0369	4759.23

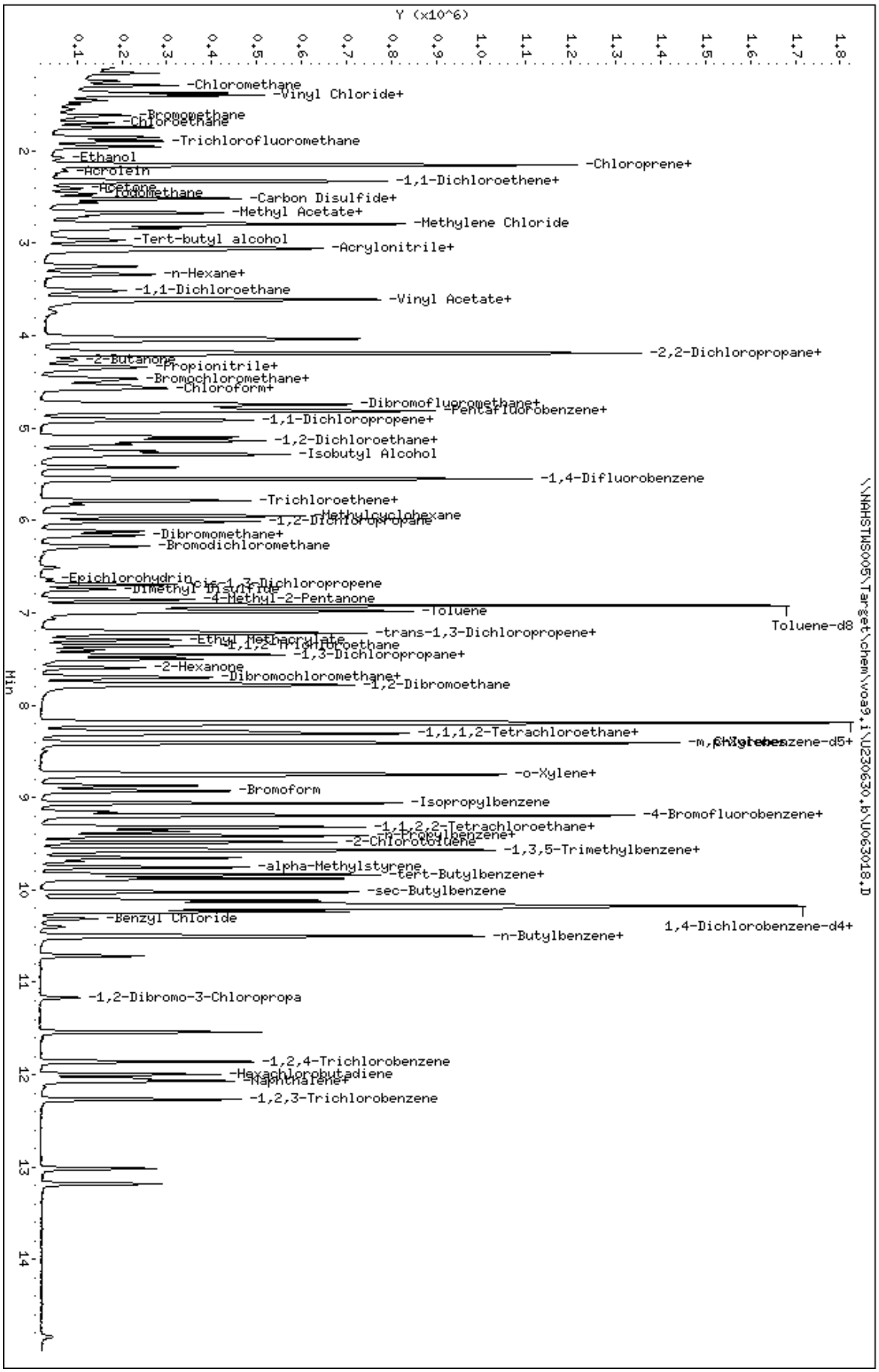
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.463	4.470	(0.928)	63362	18.0889	4522.23
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	262168	49.2538	49.25
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	165396	20.9603	5240.08
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	140116	22.3826	5595.66
	33 1,2-Dichloroethane	62	5.175	5.179	(0.932)	153184	20.7199	5179.98
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	141096	24.5375	6134.36
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.059)	288440	50.0860	50.08
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	854174	50.0000	
	37 Benzene	78	5.138	5.137	(0.926)	425059	20.6513	5162.83
	38 Trichloroethene	130	5.786	5.790	(1.043)	152382	25.5429	6385.73
	39 Bromodichloromethane	83	6.277	6.281	(1.131)	131896	20.5430	5135.75
	42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	109611	19.9453	4986.31
	44 Dibromomethane	93	6.120	6.120	(1.103)	71290	20.3026	5075.64
	45 4-Methyl-2-Pentanone	43	6.854	6.858	(0.837)	206126	35.3419	8835.46
	46 cis-1,3-Dichloropropene	75	6.690	6.693	(1.205)	150982	18.7928	4698.19
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	800915	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	987755	54.4908	54.49
	50 Toluene	91	6.982	6.982	(0.853)	474887	21.8612	5465.30
	51 trans-1,3-Dichloropropene	75	7.196	7.199	(1.296)	123838	18.4801	4620.03
	52 2-Hexanone	43	7.593	7.593	(0.928)	137726	33.9083	8477.06
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	88907	19.6702	4917.56
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	186593	20.2060	5051.48
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	114081	21.2723	5318.06
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	122785	23.1996	5799.90
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	108809	19.5150	4878.75
	58 1-Chlorohexane	55	8.197	8.196	(1.477)	103678	23.6379	5909.48
	59 Chlorobenzene	112	8.208	8.211	(1.003)	329093	21.2270	5306.76
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	115931	21.7566	5439.15
	61 Ethylbenzene	106	8.305	8.305	(1.015)	162651	22.5409	5635.22
	62 m,p-Xylenes	106	8.406	8.410	(1.027)	395266	46.2995	11574.87
	63 o-Xylene	106	8.748	8.747	(1.069)	188706	22.3749	5593.71
	64 Styrene	104	8.763	8.762	(1.071)	289800	21.6523	5413.07
	66 Bromoform	173	8.920	8.920	(1.090)	75631	20.8928	5223.20
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	480023	23.6965	5924.11
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	150449	18.1995	4549.86
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	363380	50.8945	50.89
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	439477	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	134915	18.5514	4637.86
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	515451	22.3604	5590.10
	74 Bromobenzene	156	9.317	9.317	(0.916)	148772	20.0632	5015.80
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	337371	21.3327	5333.17
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	338577	20.8937	5223.41
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	383127	21.3597	5339.92
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	350490	22.5647	5641.16
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	341367	20.6298	5157.44
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	442281	22.4529	5613.21
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	351353	21.2909	5322.71
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	257641	20.4571	5114.27
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	269308	20.0556	5013.90
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	311852	22.0741	5518.52
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	252204	19.9727	4993.17
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	18820	15.6014	3900.35

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	154289	17.7640	4440.99
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	76340	21.7642	5441.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	320244	15.8730	3968.26
	93 1,2,3-Trichlorobenzene	180	12.271	12.267	(1.206)	144952	17.0713	4267.81
M	94 1,2-Dichloroethylene (total)	96				705208	115.894	28973.54
M	95 Xylenes (total)	106				583972	68.6744	17168.59
	135 1,4-Dioxane	88	6.168	6.168	(1.282)	25991	206.432	51607.90
	141 Cyclohexane	56	4.778	4.781	(0.993)	166406	21.7722	5443.03
	138 Freon TF	101	2.330	2.333	(0.484)	188274	44.2105	11052.63
	140 1,3-Butadiene	54	1.396	1.404	(0.290)	113837	18.9569	4739.21
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	255823	21.5901	5397.53
	146 Methyl Acetate	43	2.708	2.712	(0.563)	89469	16.7574	4189.35
	148 Tert-Butyl alcohol	59	2.963	2.967	(0.616)	202256	341.978	85494.57
	149 Isopropyl Alcohol	45	2.558	2.562	(0.532)	129329	311.996	77998.99
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	19190	20.8093	5202.32
	12 Isobutyl Alcohol	43	5.288	5.287	(1.099)	323091	392.170	98042.49
	13 Acetonitrile	39	2.667	2.671	(0.554)	134704	196.218	49054.61
	14 Allyl Chloride	41	2.667	2.671	(0.554)	300316	18.2425	4560.62
	25 Methacrylonitrile	41	4.493	4.496	(0.934)	65038	17.3606	4340.13
	40 Methyl Methacrylate	41	6.157	6.157	(1.280)	92662	16.9960	4248.98
	4 Propionitrile	54	4.335	4.339	(0.901)	156381	170.671	42667.71(a)
	136 n-Hexane	57	3.338	3.342	(0.694)	121975	23.4760	5868.99
	194 Acetaldehyde	44	1.453	1.460	(0.302)	14184	16.2190	4054.75(M)
	131 Methyl Acrylate	55	4.365	4.369	(0.907)	118831	17.7199	4429.96
	200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	74914	16.2894	4072.35
	23 Chloroprene	53	2.150	2.157	(0.447)	41747	20.6424	5160.59
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	142683	19.0559	4763.97
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	358670	21.2318	5307.95
	156 Diisopropyl ether	45	3.616	3.623	(0.751)	330524	18.6941	4673.51
	162 Butyl acrylate	55	8.733	8.732	(1.067)	170570	18.0042	4501.05
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	82645	21.2281	5307.01

QC Flag Legend

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



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Purge Volume: 5.0
Column phase: DB624

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

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Inj Date : 30-JUN-2023 16:57
InstruID : VOA9.i
LabSampID : HS23061925-22MS

Acetaldehyde (75-07-0)

Reason Code:

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HEIGHT
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03-Jul-2023
13:15
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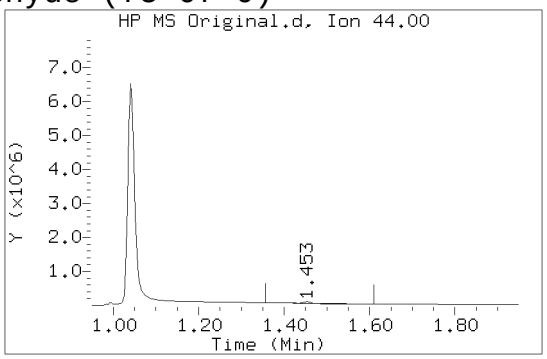
pham



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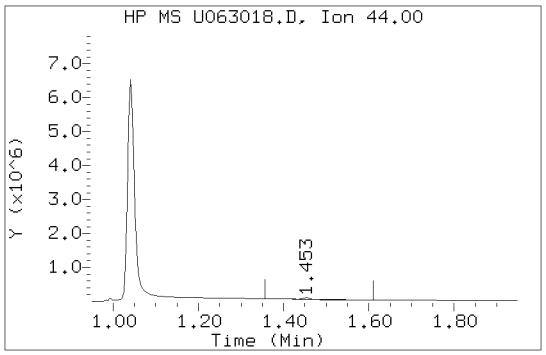

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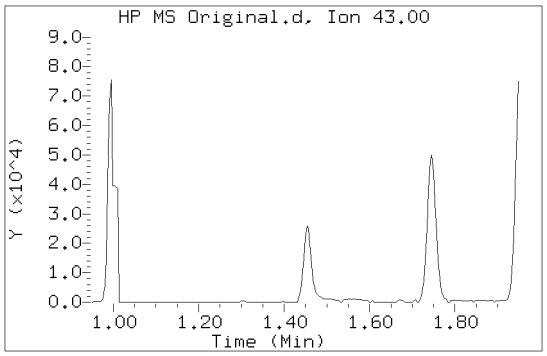

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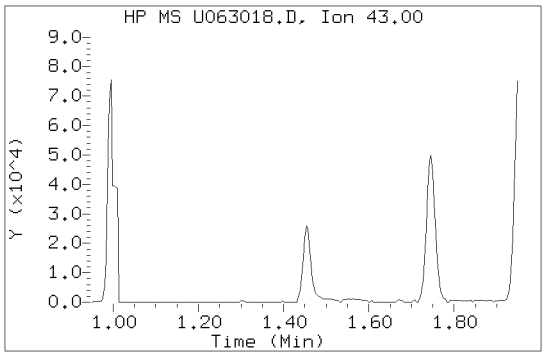

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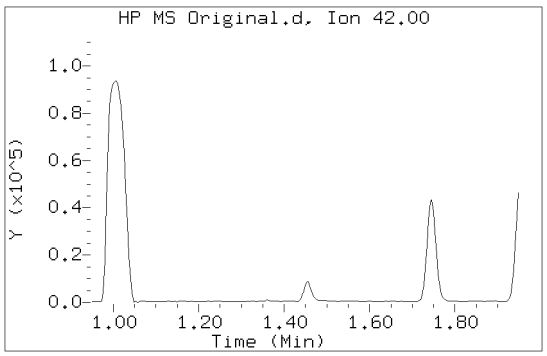

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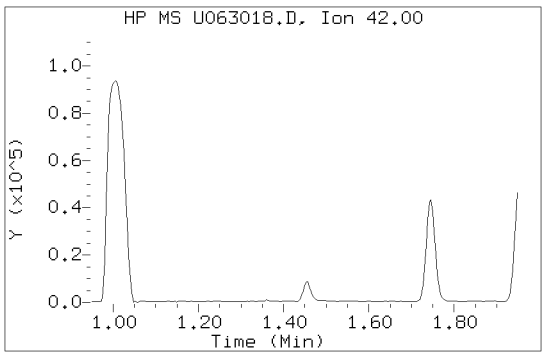

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Report Date: 03-Jul-2023 13:16

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Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063019.D
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Operator : PC Inst ID: VOA9.i
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Misc Info : V9;WATER;0;250;
Comment   :
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Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	635546	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	95586	16.3320	4082.98
3	Chloromethane	50	1.295	1.295	(0.269)	160312	15.8267	3956.68
5	Vinyl Chloride	62	1.378	1.378	(0.286)	233237	34.6952	8673.79
6	Bromomethane	94	1.618	1.617	(0.336)	76495	21.1045	5276.13
7	Chloroethane	64	1.696	1.700	(0.352)	83167	18.3655	4591.37
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	171752	22.2452	5561.29
9	Acrolein	56	2.262	2.266	(0.470)	10608	31.4463	7861.57
10	Acetone	43	2.409	2.408	(0.500)	81706	33.8622	8465.55
11	1,1-Dichloroethene	96	2.330	2.333	(0.484)	99487	20.6226	5155.65
15	Iodomethane	142	2.469	2.468	(0.513)	134749	42.8846	10721.15
16	Acrylonitrile	53	3.065	3.064	(0.636)	87088	36.9501	9237.52
17	Methylene Chloride	84	2.795	2.795	(0.580)	227940	39.1084	9777.11
18	Methyl tert-butyl ether	73	3.080	3.079	(0.640)	275417	18.6173	4654.33
19	Carbon Disulfide	76	2.517	2.521	(0.523)	515939	40.0056	10001.41
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	105116	20.0359	5008.96
21	Vinyl Acetate	43	3.604	3.608	(0.749)	582132	36.4000	9099.99
22	1,1-Dichloroethane	63	3.515	3.514	(0.730)	181337	18.1876	4546.91
24	2-Butanone	43	4.268	4.268	(0.886)	91841	31.6948	7923.70
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	131516	20.1904	5047.58

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	580654	92.5130	23128.23
28 Chloroform	83	4.572	4.571 (0.949)	191985	18.5010	4625.24

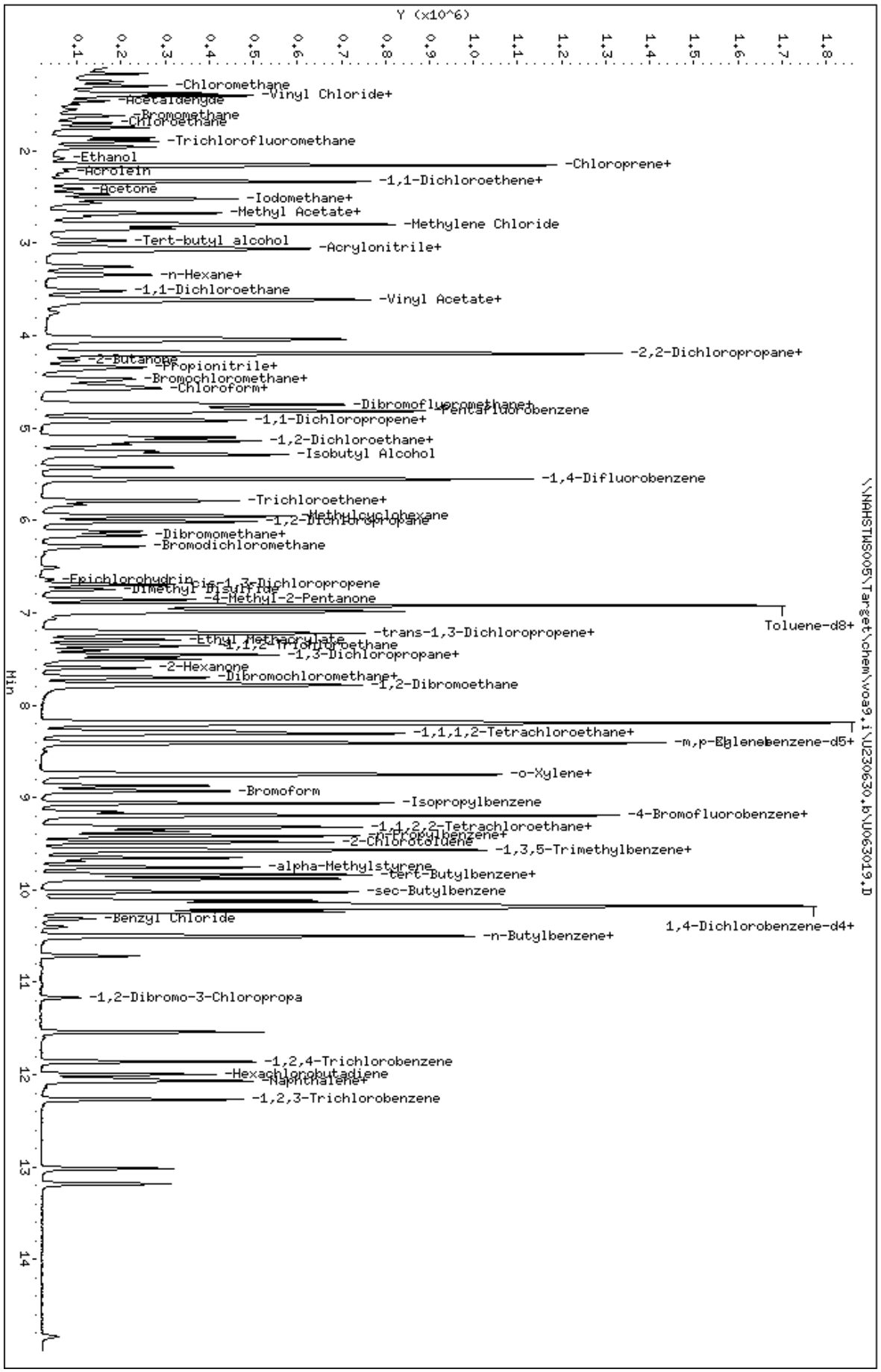
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.470	(0.928)	63299	18.0295	4507.36
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	266834	50.0202	50.02
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	159434	20.1584	5039.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	141850	22.4003	5600.06
	33 1,2-Dichloroethane	62	5.175	5.179	(0.932)	147479	19.7199	4929.97
	34 Carbon Tetrachloride	117	4.909	4.913	(0.884)	136602	23.4840	5870.99
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	288069	49.9043	49.90
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	864065	50.0000	
	37 Benzene	78	5.138	5.137	(0.925)	420938	20.2170	5054.25
	38 Trichloroethene	130	5.790	5.790	(1.043)	151463	25.0982	6274.56
	39 Bromodichloromethane	83	6.277	6.281	(1.130)	133853	20.6092	5152.29
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	107220	19.2869	4821.71
	44 Dibromomethane	93	6.120	6.120	(1.102)	71410	20.1039	5025.98
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	208579	35.0189	8754.72
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	149067	18.3879	4596.96
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	817921	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1001200	54.0841	54.08
	50 Toluene	91	6.982	6.982	(0.853)	467638	21.0799	5269.98
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	124659	18.3996	4599.90
	52 2-Hexanone	43	7.593	7.593	(0.928)	142507	34.3559	8588.96
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	87112	18.8724	4718.09
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	183314	19.4381	4859.53
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	111815	20.4162	5104.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	119783	22.1618	5540.45
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	110818	19.4621	4865.52
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	100648	22.6844	5671.10
	59 Chlorobenzene	112	8.212	8.211	(1.003)	326780	20.6396	5159.90
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	114508	21.0428	5260.68
	61 Ethylbenzene	106	8.309	8.305	(1.015)	161284	21.8867	5471.68
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	397879	45.6366	11409.14
	63 o-Xylene	106	8.748	8.747	(1.069)	186276	21.6275	5406.87
	64 Styrene	104	8.763	8.762	(1.071)	301297	22.0433	5510.81
	66 Bromoform	173	8.920	8.920	(1.090)	75374	20.3889	5097.22
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	480523	23.2280	5806.98
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	150908	17.8792	4469.80
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	374846	51.4180	51.41
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	448714	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	134940	18.1729	4543.22
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	517927	22.0053	5501.32
	74 Bromobenzene	156	9.317	9.317	(0.916)	150640	19.8969	4974.23
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	339687	21.0370	5259.24
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	342310	20.6892	5172.29
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	384791	21.0108	5252.71
	78 tert-Butylbenzene	119	9.839	9.838	(0.967)	353416	22.2847	5571.16
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	352128	20.8420	5210.50
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	448704	22.3100	5577.50
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	365101	21.6685	5417.13
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	255672	19.8828	4970.71
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	270572	19.7349	4933.73
	87 n-Butylbenzene	91	10.491	10.494	(1.031)	313228	21.7151	5428.77
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	252027	19.5478	4886.95
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	19281	15.6545	3913.63

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	156772	17.6783	4419.57
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	74213	20.7223	5180.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	354665	17.2173	4304.31
	93 1,2,3-Trichlorobenzene	180	12.271	12.267	(1.206)	147898	17.0597	4264.91
M	94 1,2-Dichloroethylene (total)	96				685770	112.549	28137.20
M	95 Xylenes (total)	106				584155	67.2641	16816.02
	135 1,4-Dioxane	88	6.172	6.168	(1.282)	29225	231.585	57896.14
	141 Cyclohexane	56	4.782	4.781	(0.993)	164494	21.4784	5369.60
	138 Freon TF	101	2.334	2.333	(0.485)	181885	42.6122	10653.05
	140 1,3-Butadiene	54	1.400	1.404	(0.291)	115054	19.1155	4778.88
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	253459	21.1458	5286.44
	146 Methyl Acetate	43	2.712	2.712	(0.563)	93976	17.5612	4390.29
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	211578	357.135	89283.87
	149 Isopropyl Alcohol	45	2.562	2.562	(0.532)	134817	324.489	81122.17
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	19342	20.5380	5134.50
	12 Isobutyl Alcohol	43	5.288	5.287	(1.098)	298263	361.202	90300.62
	13 Acetonitrile	39	2.671	2.671	(0.555)	132786	192.981	48245.13
	14 Allyl Chloride	41	2.671	2.671	(0.555)	299588	18.1565	4539.12
	25 Methacrylonitrile	41	4.497	4.496	(0.934)	66168	17.6216	4405.40
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	94250	17.2475	4311.88
	4 Propionitrile	54	4.339	4.339	(0.901)	158493	172.579	43144.68(a)
	136 n-Hexane	57	3.342	3.342	(0.694)	120347	23.1164	5779.09
	194 Acetaldehyde	44	1.456	1.460	(0.303)	80406	91.7310	22932.75(M)
	131 Methyl Acrylate	55	4.369	4.369	(0.907)	122696	18.2542	4563.55
	200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	74791	16.0295	4007.37
	23 Chloroprene	53	2.154	2.157	(0.447)	41380	20.4139	5103.48
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	143614	18.9607	4740.16
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	356938	20.6944	5173.58
	156 Diisopropyl ether	45	3.619	3.623	(0.752)	329026	18.5666	4641.65
	162 Butyl acrylate	55	8.733	8.732	(1.067)	173175	17.8991	4474.78
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	89495	22.3855	5596.36

QC Flag Legend

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



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Column phase: DB624

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

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Acetaldehyde (75-07-0)

Reason Code:

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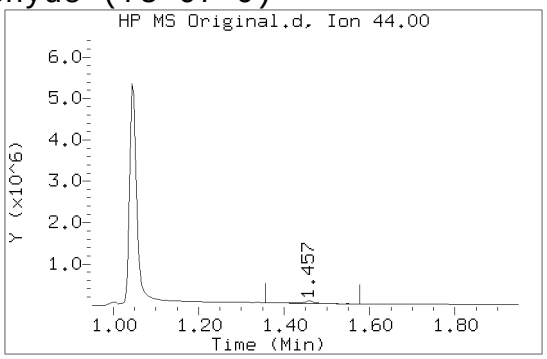

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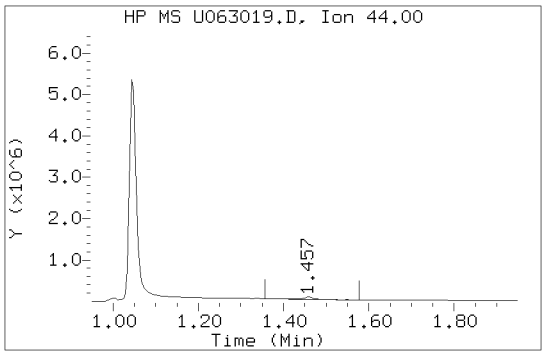

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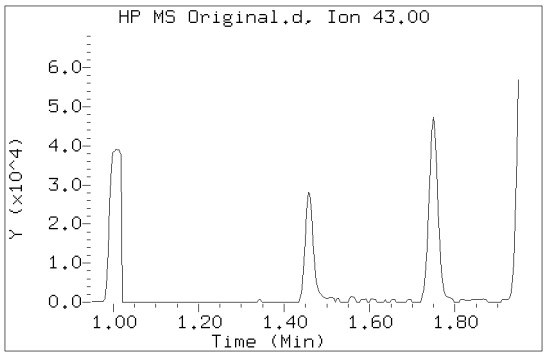

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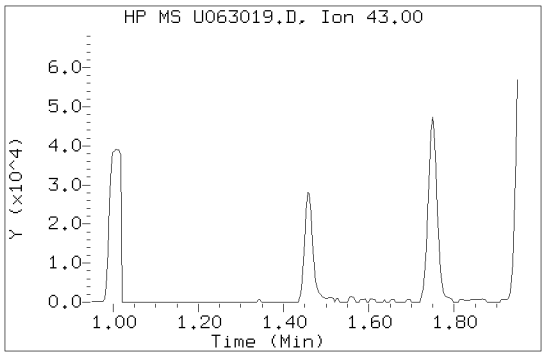

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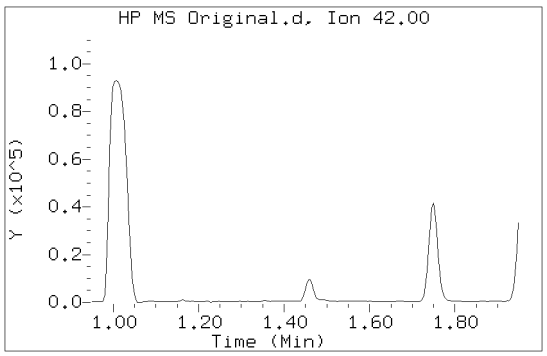

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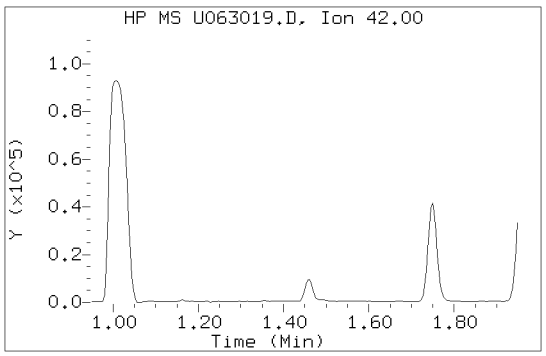

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Report Date: 03-Jul-2023 13:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063026.D
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Inj Date : 30-JUN-2023 19:55
Operator : PC Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 03-Jul-2023 13:16 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	535155	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	182892	50.0000	37.00
3	Chloromethane	50	1.299	1.299	(0.270)	335461	50.0000	41.33
5	Vinyl Chloride	62	1.382	1.382	(0.287)	258747	50.0000	45.71
6	Bromomethane	94	1.621	1.621	(0.337)	159745	50.0000	55.06
7	Chloroethane	64	1.704	1.704	(0.354)	183822	50.0000	48.20
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	350572	50.0000	53.92
9	Acrolein	56	2.266	2.266	(0.470)	26710	100.000	94.03
10	Acetone	43	2.412	2.412	(0.501)	175086	100.000	94.99
11	1,1-Dichloroethene	96	2.334	2.334	(0.484)	205440	50.0000	50.57
15	Iodomethane	142	2.472	2.472	(0.513)	385788	100.000	117.38
16	Acrylonitrile	53	3.068	3.068	(0.637)	204215	100.000	102.89
17	Methylene Chloride	84	2.799	2.799	(0.581)	260314	50.0000	53.40
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	648259	50.0000	52.04
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1224658	100.000	112.77
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	229637	50.0000	51.98
21	Vinyl Acetate	43	3.608	3.608	(0.749)	1366514	100.000	101.47
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	405969	50.0000	48.35
24	2-Butanone	43	4.268	4.268	(0.886)	216973	100.000	88.92
26	2,2-Dichloropropane	77	4.186	4.186	(0.869)	260431	50.0000	46.94

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.871)	267385	50.0000	50.59
28 Chloroform	83	4.575	4.575 (0.949)	440656	50.0000	50.43

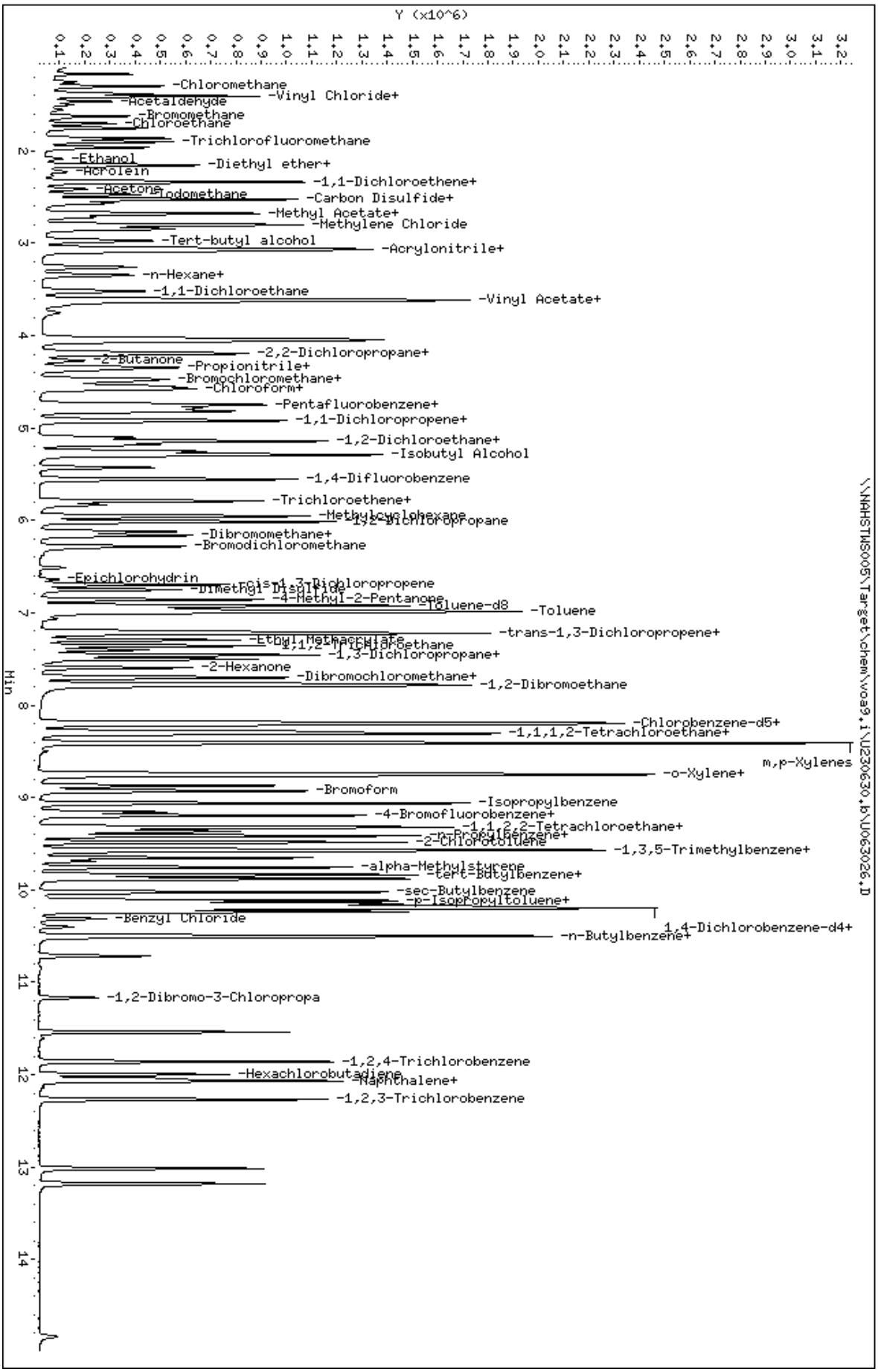
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	148368	50.0000	50.18
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	231286	50.0000	51.49
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	344485	50.0000	51.72
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	290569	50.0000	50.21
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	354208	50.0000	51.82
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	286524	50.0000	53.90
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	251313	50.0000	51.72
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	789605	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	959653	50.0000	50.43
	38 Trichloroethene	130	5.790	5.790	(1.043)	292943	50.0000	53.11
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	323177	50.0000	54.45
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	259644	50.0000	51.10
	44 Dibromomethane	93	6.120	6.120	(1.102)	166620	50.0000	51.33
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	522902	100.000	92.52
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	366470	50.0000	46.23
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	776062	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	864432	50.0000	49.21
	50 Toluene	91	6.982	6.982	(0.853)	1053688	50.0000	50.05
	51 trans-1,3-Dichloropropene	75	7.200	7.200	(1.296)	313994	50.0000	47.16
	52 2-Hexanone	43	7.593	7.593	(0.928)	338337	100.000	85.96
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	213478	50.0000	48.74
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	437206	50.0000	48.86
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	283000	50.0000	54.45
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	241153	50.0000	47.02
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	264431	50.0000	48.94
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	198208	50.0000	48.88
	59 Chlorobenzene	112	8.212	8.212	(1.003)	744469	50.0000	49.55
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	270243	50.0000	52.34
	61 Ethylbenzene	106	8.309	8.309	(1.015)	354411	50.0000	50.68
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	883477	100.000	106.80
	63 o-Xylene	106	8.748	8.748	(1.069)	434659	50.0000	53.18
	64 Styrene	104	8.763	8.763	(1.071)	715670	50.0000	55.18
	66 Bromoform	173	8.920	8.920	(1.090)	194307	50.0000	55.39
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1016525	50.0000	51.78
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	355849	50.0000	45.55
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	357970	50.0000	51.75
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	415254	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.363	(0.920)	318798	50.0000	46.39
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1056970	50.0000	48.52
	74 Bromobenzene	156	9.318	9.318	(0.916)	337328	50.0000	48.14
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	743670	50.0000	49.76
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	735619	50.0000	48.04
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	846995	50.0000	49.97
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	708514	50.0000	48.27
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	742656	50.0000	47.49
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	886505	50.0000	47.62
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	740084	50.0000	47.46
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	564026	50.0000	47.39
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	592632	50.0000	46.70
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	602882	50.0000	45.16
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	569227	50.0000	47.70
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	51169	50.0000	44.89

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	374345	50.0000	45.61
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	142910	50.0000	43.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
92	Naphthalene	128	12.069	12.069	(1.186)	876111	50.0000	45.95
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	367430	50.0000	45.79
M 94	1,2-Dichloroethylene (total)	96				497022	100.000	(a)
135	1,4-Dioxane	88	6.172	6.172	(1.281)	70407	1000.00	662.58
141	Cyclohexane	56	4.785	4.785	(0.993)	280235	50.0000	42.78
138	Freon TF	101	2.337	2.337	(0.485)	181265	50.0000	50.43
140	1,3-Butadiene	54	1.408	1.408	(0.292)	230180	50.0000	45.41
147	Methylcyclohexane	55	5.947	5.947	(1.071)	542025	50.0000	49.48
146	Methyl Acetate	43	2.716	2.716	(0.564)	212904	50.0000	47.24
148	Tert-Butyl alcohol	59	2.971	2.971	(0.617)	501834	1000.00	1014.99
149	Isopropyl Alcohol	45	2.566	2.566	(0.533)	331365	1000.00	947.17
72	trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	48479	50.0000	54.25
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	725579	1000.00	1043.52
13	Acetonitrile	39	2.675	2.675	(0.555)	282244	500.000	487.13
14	Allyl Chloride	41	2.675	2.675	(0.555)	664301	50.0000	47.81
25	Methacrylonitrile	41	4.497	4.497	(0.933)	153674	50.0000	48.60
40	Methyl Methacrylate	41	6.157	6.157	(1.278)	232330	50.0000	50.49
4	Propionitrile	54	4.343	4.343	(0.901)	373509	500.000	482.99
136	n-Hexane	57	3.346	3.346	(0.694)	179389	50.0000	40.38
194	Acetaldehyde	44	1.464	1.464	(0.304)	180200	200.000	244.14(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	292199	50.0000	51.62
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	259040	50.0000	45.05
23	Chloroprene	53	2.158	2.158	(0.448)	87185	50.0000	51.07(M)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	349569	50.0000	50.50
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	757197	50.0000	47.43
156	Diisopropyl ether	45	3.623	3.623	(0.752)	770954	50.0000	51.66
162	Butyl acrylate	55	8.733	8.733	(1.067)	424978	50.0000	46.29
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	180783	50.0000	45.74

QC Flag Legend

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



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Client ID: CCV-END
Sample Info: CCV-END,CCV-END,2,,,
Purge Volume: 5.0
Column phase: DB624

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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230630.b\U063026.D
Inj Date : 30-JUN-2023 19:55
InstruID : VOA9.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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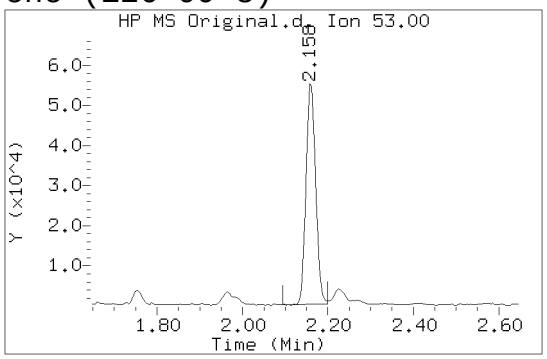
HEIGHT
55099
03-Jul-2023
13:15
linh
pham



AFTER

MASS
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AREA
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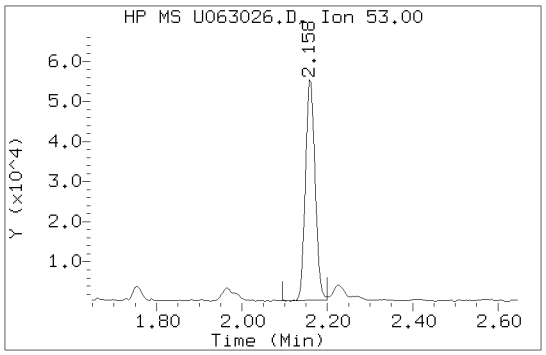

BEFORE

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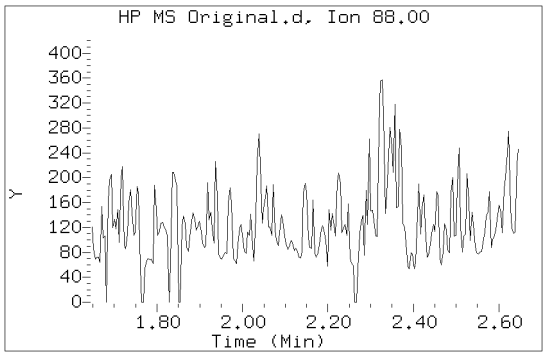

AFTER

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AREA
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03-Jul-2023
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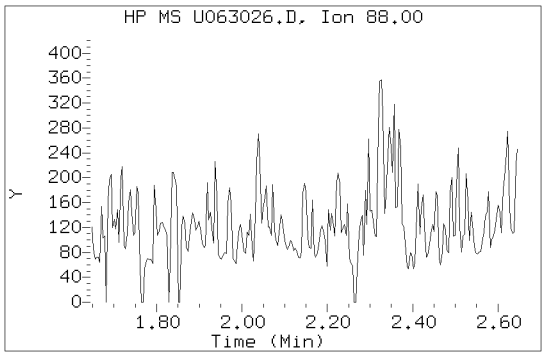

Acetaldehyde (75-07-0)

Reason Code:

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03-Jul-2023
13:15
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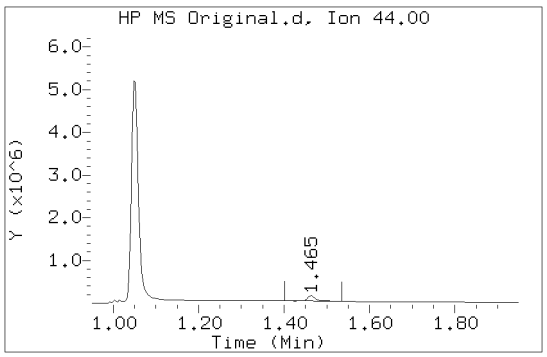
pham



AFTER

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AREA
180200
HEIGHT
124443
03-Jul-2023
13:15
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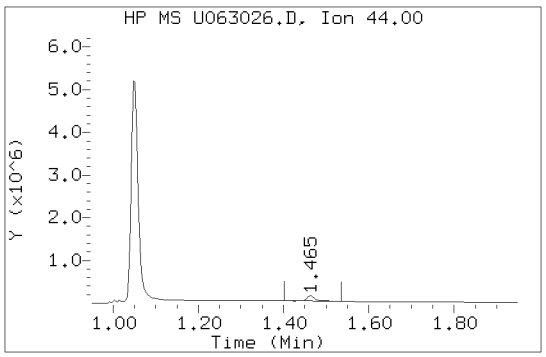

BEFORE

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HEIGHT
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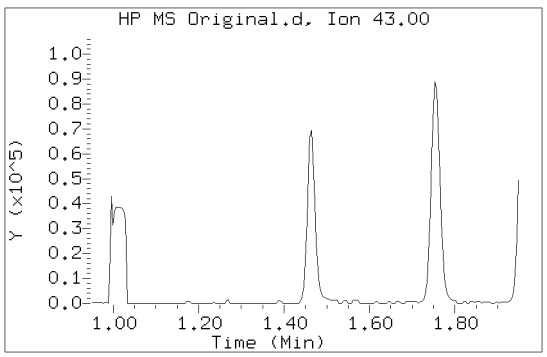
03-Jul-2023
13:15
linh
pham



AFTER

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AREA
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HEIGHT
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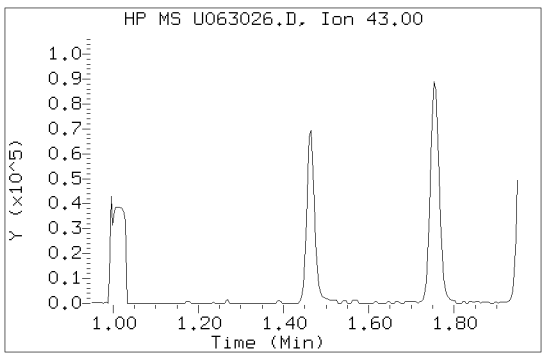
03-Jul-2023
13:15
linh
pham



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Inj Date : 30-JUN-2023 19:55
InstruID : VOA9.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

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HEIGHT
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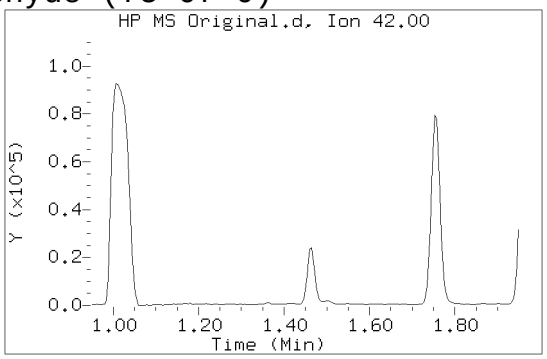
03-Jul-2023
13:15
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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03-Jul-2023
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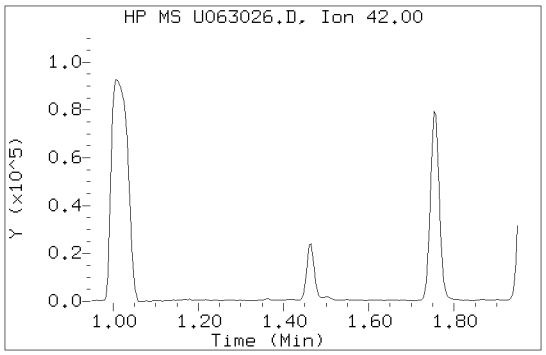


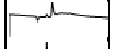
HS23061900 Wetchem 9056_W

ALS WO# HS23061900

Sequence: 070623
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23061635-02DF100	9056-W	Unknown	RE5	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23061635-02MSDF10	9056-W	Unknown	RE6	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23061635-02MSDDF	9056-W	Unknown	RE7	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23061900-01DF2	9056-W	Unknown	GB4	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23061900-01DF50	9056-W	Unknown	GB5	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 070623
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	7/6/2023 6:45:00 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	7/6/2023 6:50:47 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	7/6/2023 6:56:35 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	7/6/2023 7:02:22 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	7/6/2023 7:08:09 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	7/6/2023 7:13:57 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	7/6/2023 7:19:44 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	7/6/2023 7:37:06 AM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	7/6/2023 4:57:15 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	7/6/2023 5:03:02 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	7/6/2023 5:20:22 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	7/6/2023 5:31:56 PM -05:00
Anions Processing Method ISO		HS23061635-02DF100	5.0	Finished	7/6/2023 6:06:38 PM -05:00
Anions Processing Method ISO		HS23061635-02MSDF1(	5.0	Finished	7/6/2023 6:12:36 PM -05:00
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Anions Processing Method ISO		CCV1	5.0	Finished	7/6/2023 8:02:51 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	7/6/2023 8:08:38 PM -05:00
Anions Processing Method ISO		HS23061900-01DF2	5.0	Finished	7/6/2023 8:31:45 PM -05:00
Anions Processing Method ISO		HS23061900-01DF50	5.0	Finished	7/6/2023 8:37:32 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	7/6/2023 9:00:40 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	7/6/2023 9:06:27 PM -05:00

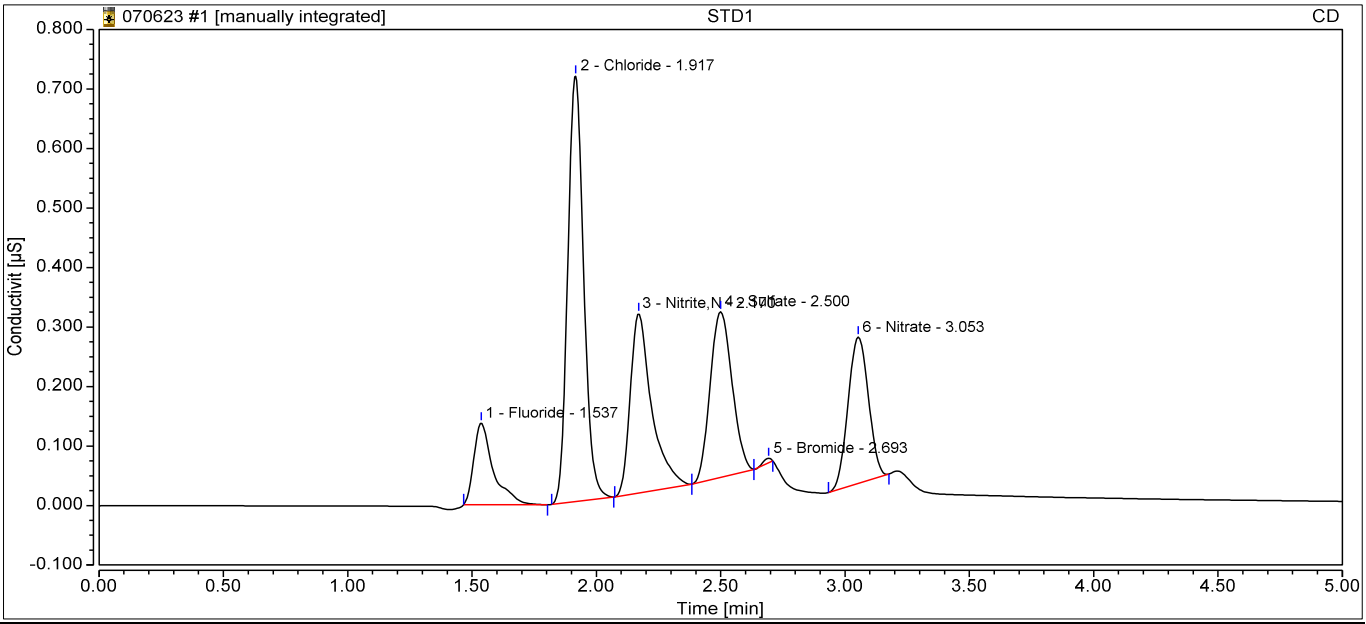
Sequence: 070623
Injection #6: STD6

Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	*Fluoride*	*Lin, WithOffset, 1/A*	*Area*	*6*	*16.1046*	*0.99894*	*-0.0117*	*0.2181*	*0.0000*
2	Chloride	Lin, WithOffset, 1/A	Area	6	5.4881	0.99987	-0.0288	0.1531	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	3.8577	0.99993	-0.0046	0.3420	-0.0043
4	Sulfate	Lin, WithOffset, 1/A	Area	6	16.1910	0.99884	-0.0173	0.0909	0.0000
5	Bromide	Lin, WithOffset, 1/A	Area	6	36.0201	0.99638	-0.0043	0.0350	0.0000
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.0733	0.99988	-0.0086	0.3135	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	10.6394	0.99821	-0.0003	0.0136	-0.0003
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**36.0201**	0.99993			
Minimum					3.8577	**0.99638**			

1 STD1			
Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 06:45**	*Sample Weight:*	**1.0000**

Run Time:



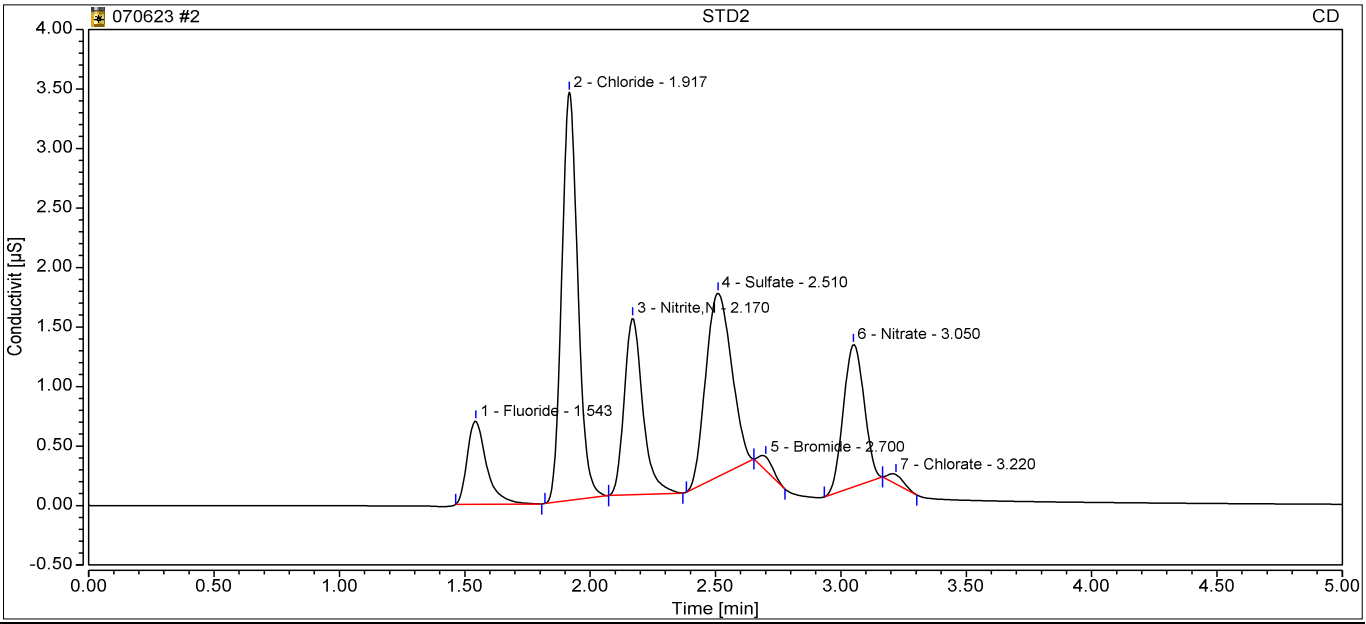
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.012	0.1106	0.1106	1.0000
2	1.92	Chloride	BMB	0.053	0.5350	0.5350	1.0000
3	2.17	Nitrite,N	BMb*	0.030	0.1015	0.1015	1.0000
4	2.50	Sulfate	bMb*	0.028	0.5036	0.5036	1.0000
5	2.69	Bromide	bMB*	0.000	0.1304	0.1304	1.0000
6	3.05	Nitrate	BMB	0.023	0.1018	0.1018	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.148**		**1.48**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 06:50**	*Sample Weight:*	**1.0000**

Run Time:



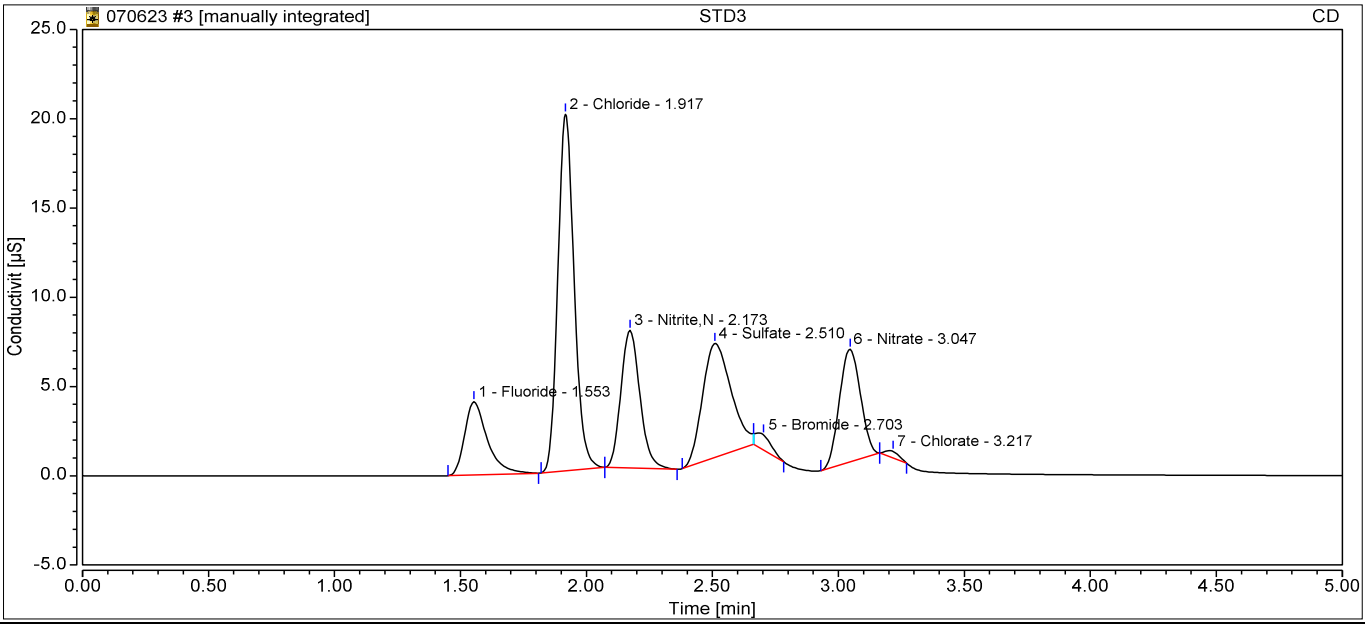
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.063	0.3419	0.3419	1.0000
2	1.92	Chloride	BMB	0.255	1.8536	1.8536	1.0000
3	2.17	Nitrite,N	BMB	0.127	0.3872	0.3872	1.0000
4	2.51	Sulfate	BMB	0.184	2.2136	2.2136	1.0000
5	2.70	Bromide	BMB	0.007	0.3261	0.3261	1.0000
6	3.05	Nitrate	BMB	0.115	0.3940	0.3940	1.0000
7	3.22	Chlorate	BMB	0.005	0.4259	0.4259	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.757**		**5.94**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 06:56**	*Sample Weight:*	**1.0000**

Run Time:



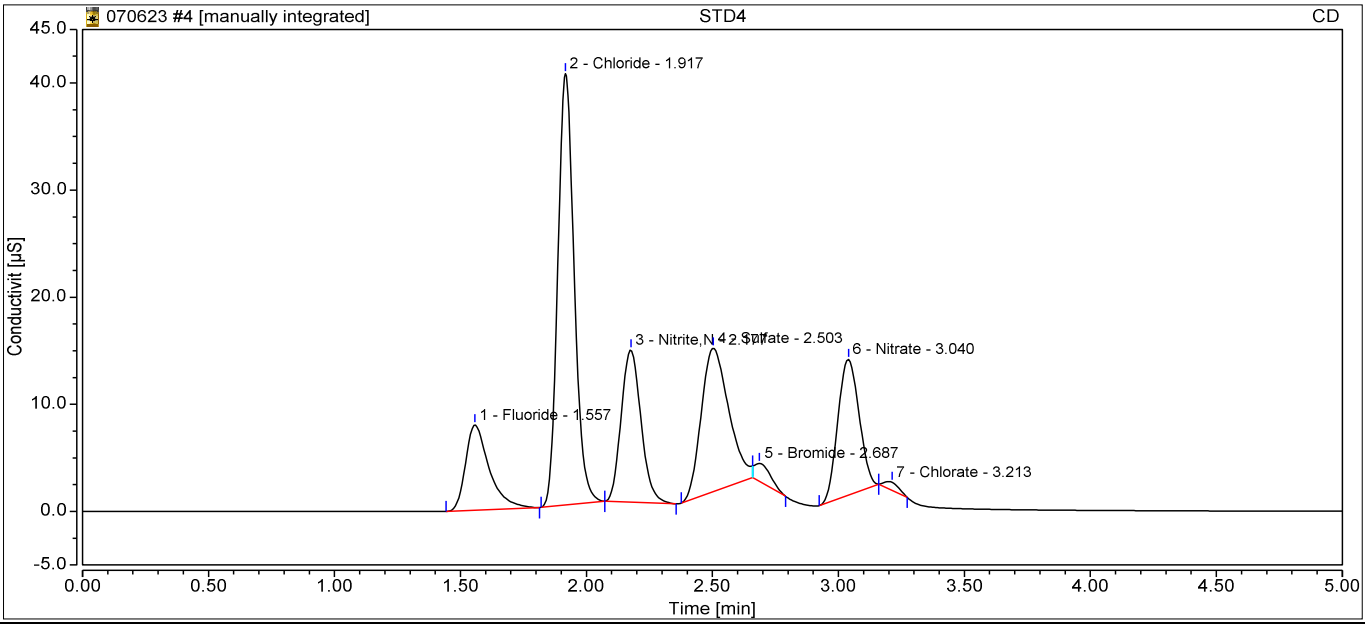
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.428	2.0174	2.0174	1.0000
2	1.92	Chloride	BMB	1.496	9.9564	9.9564	1.0000
3	2.17	Nitrite,N	BMB	0.675	2.0398	2.0398	1.0000
4	2.51	Sulfate	BM *	0.835	9.3752	9.3752	1.0000
5	2.70	Bromide	MB*	0.062	1.8791	1.8791	1.0000
6	3.05	Nitrate	BMb*	0.613	1.9817	1.9817	1.0000
7	3.22	Chlorate	bMB*	0.023	1.8102	1.8102	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.132**		**29.06**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 07:02**	*Sample Weight:*	**1.0000**

Run Time:

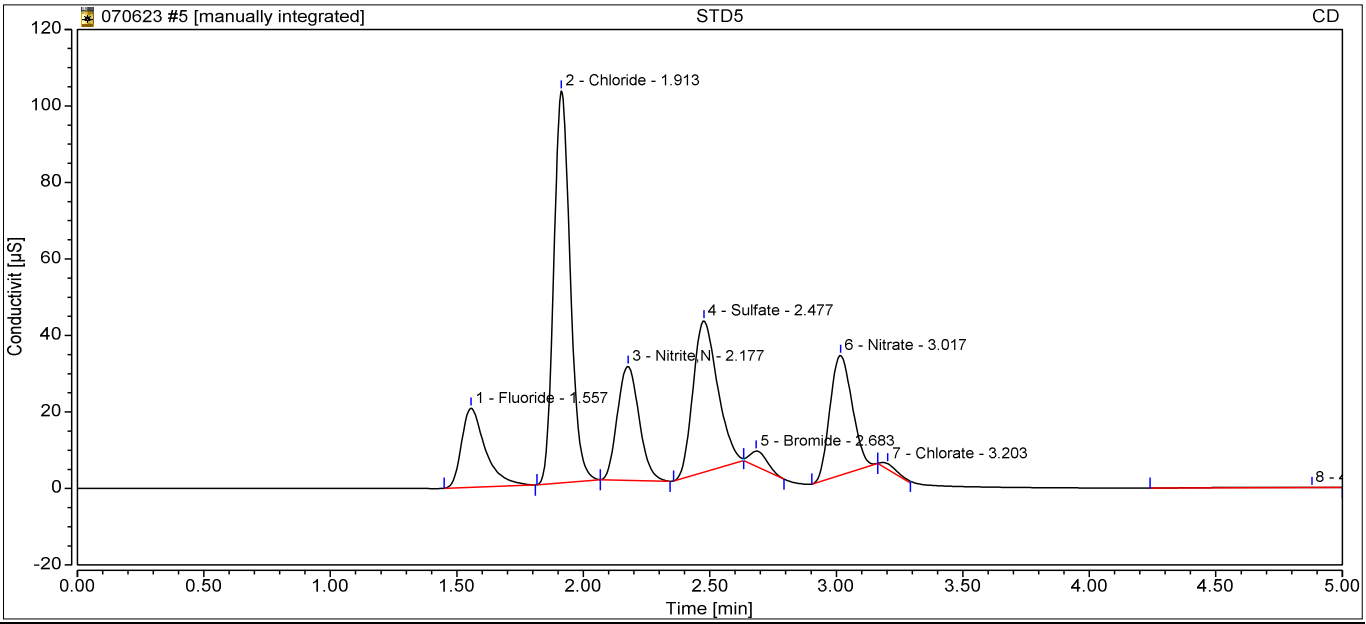


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.56	Fluoride	BMB	0.870	4.0428	4.0428	1.0000
2	1.92	Chloride	BMB	3.034	20.0024	20.0024	1.0000
3	2.18	Nitrite,N	BMB	1.299	4.0118	4.0118	1.0000
4	2.50	Sulfate	BM *	1.688	18.7633	18.7633	1.0000
5	2.69	Bromide	MB*	0.130	3.8216	3.8216	1.0000
6	3.04	Nitrate	BMb*	1.240	3.9829	3.9829	1.0000
7	3.21	Chlorate	bMB*	0.049	4.0279	4.0279	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.311**		**58.65**	

5 STD5			
Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 07:08**	*Sample Weight:*	**1.0000**

Run Time:



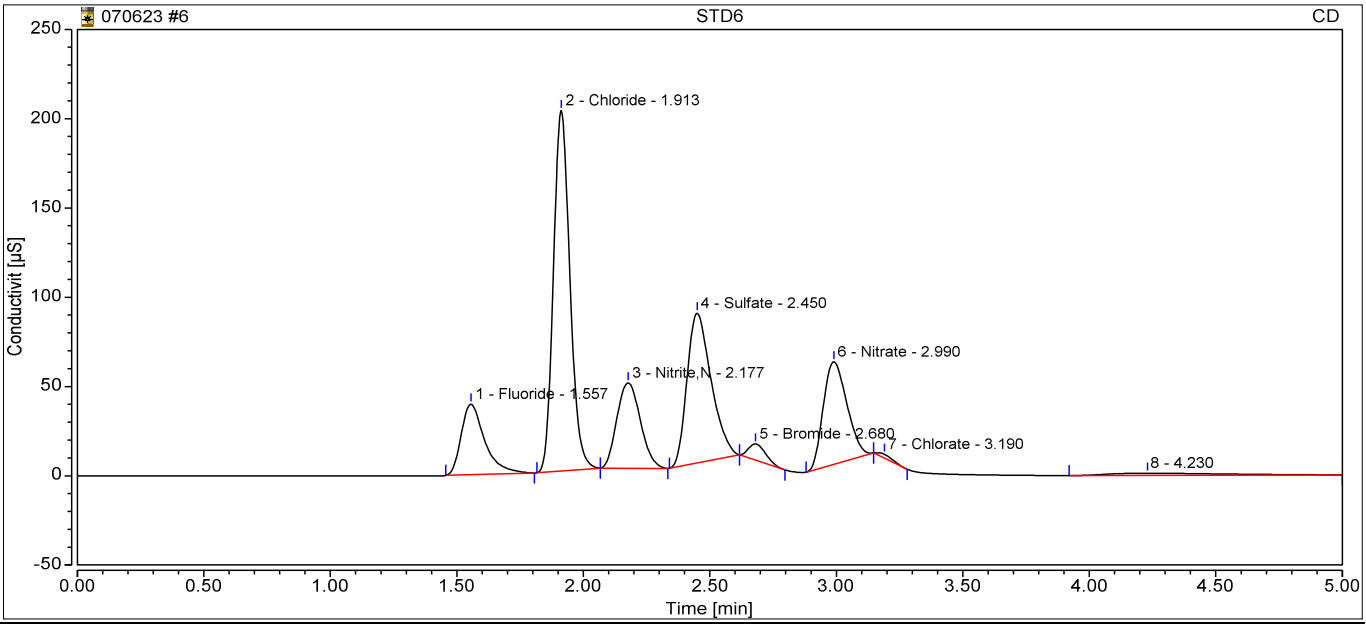
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.56	Fluoride	BMB	2.259	10.4106	10.4106	1.0000
2	1.91	Chloride	BMB	7.720	50.6021	50.6021	1.0000
3	2.18	Nitrite,N	BMB	2.968	9.9159	9.9159	1.0000
4	2.48	Sulfate	BM *	4.473	49.3909	49.3909	1.0000
5	2.68	Bromide	MB*	0.324	9.3800	9.3800	1.0000
6	3.02	Nitrate	BMb*	3.180	10.1692	10.1692	1.0000
7	3.20	Chlorate	bM *	0.108	10.4157	10.4157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.032**		**150.28**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 07:13**	*Sample Weight:*	**1.0000**

Run Time:



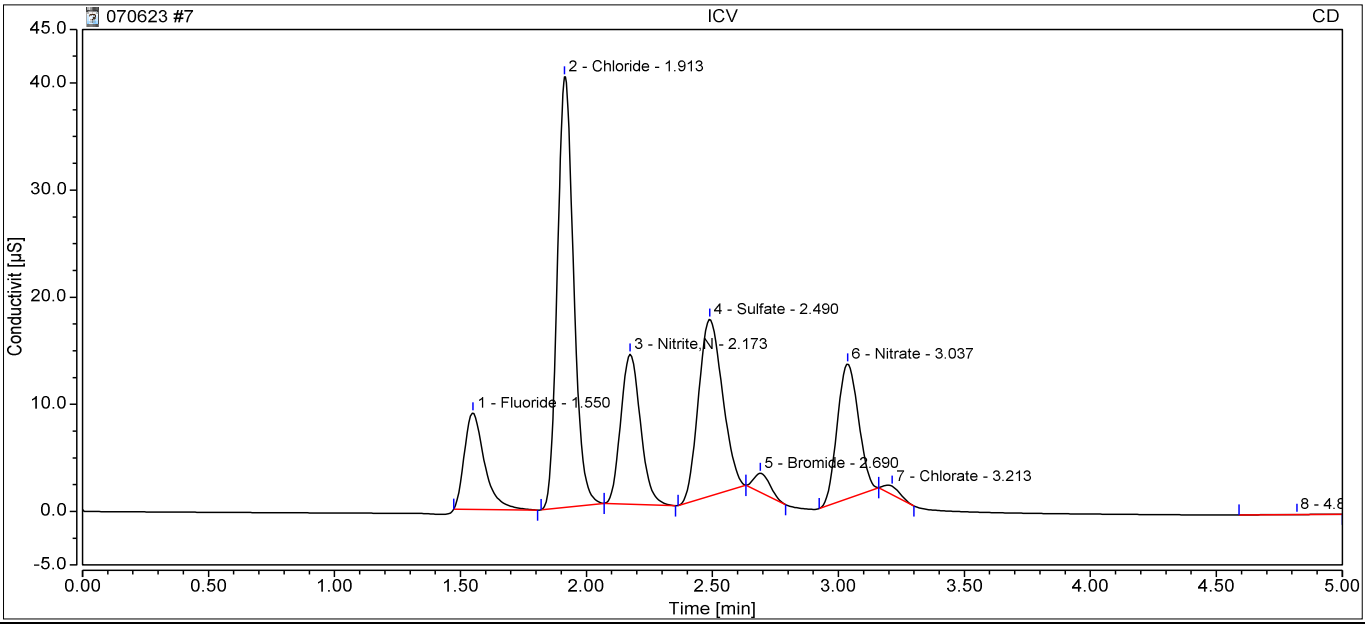
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.56	Fluoride	BMB	4.258	19.5766	19.5766	1.0000
2	1.91	Chloride	BMB	15.216	99.5506	99.5506	1.0000
3	2.18	Nitrite,N	BMB	5.143	20.0517	20.0517	1.0000
4	2.45	Sulfate	BMB	9.278	102.2534	102.2534	1.0000
5	2.68	Bromide	BMB	0.730	20.9628	20.9628	1.0000
6	2.99	Nitrate	BMB	6.221	19.8704	19.8704	1.0000
7	3.19	Chlorate	BMB	0.149	19.1935	19.1935	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**40.994**		**301.46**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 07:19**	*Sample Weight:*	**1.0000**

Run Time:



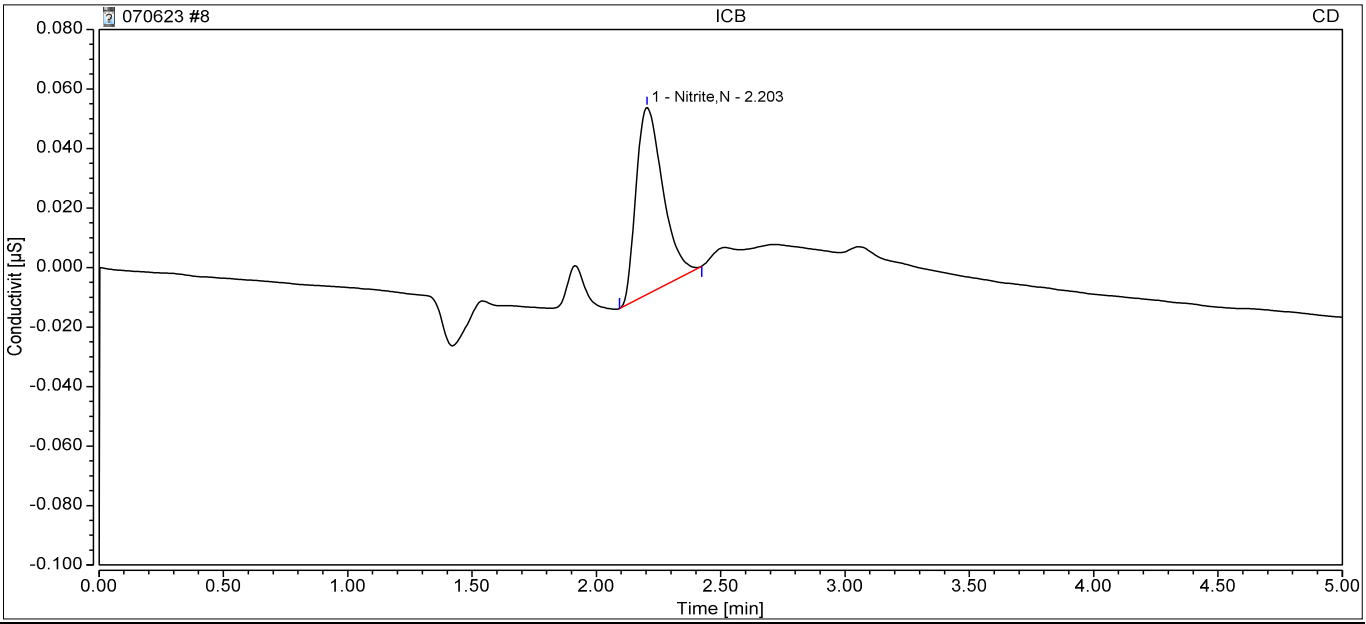
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.840	3.9052	3.9052	1.0000
2	1.91	Chloride	BMB	3.009	19.8372	19.8372	1.0000
3	2.17	Nitrite,N	BMB	1.272	3.9248	3.9248	1.0000
4	2.49	Sulfate	BMB	1.829	20.3121	20.3121	1.0000
5	2.69	Bromide	BMB	0.134	3.9406	3.9406	1.0000
6	3.04	Nitrate	BMB	1.230	3.9518	3.9518	1.0000
7	3.21	Chlorate	BMB	0.056	4.5813	4.5813	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.370**		**60.45**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 07:37**	*Sample Weight:*	**1.0000**

Run Time:

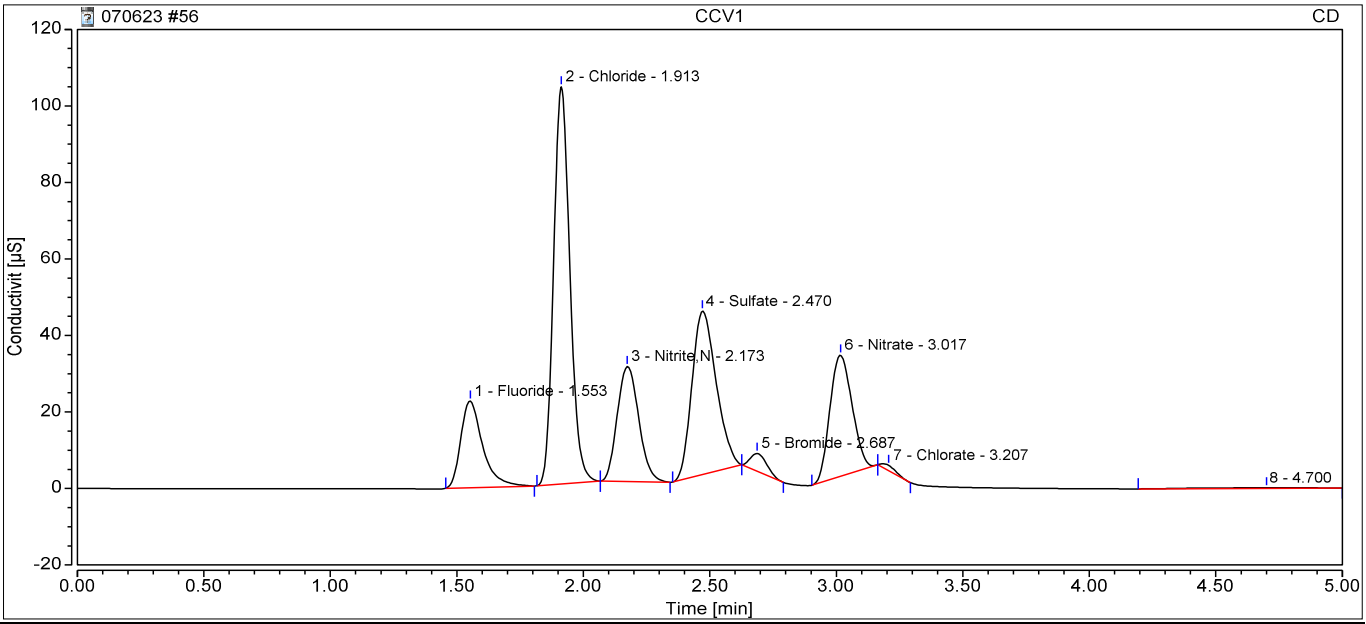


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.20	Nitrite,N	BMB	0.008	0.0364	0.0364	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.008**		**0.04**	

56 CCV1			
Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 16:57**	*Sample Weight:*	**1.0000**

Run Time:



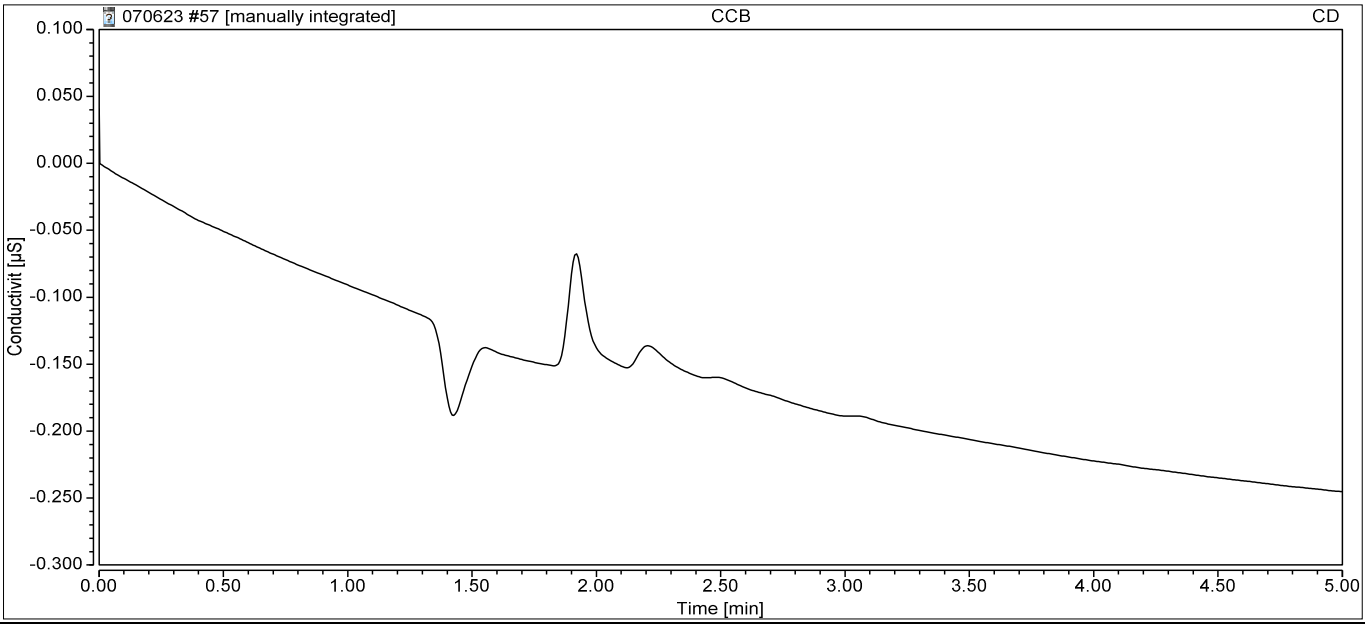
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	2.276	10.4902	10.4902	1.0000
2	1.91	Chloride	BMB	7.747	50.7796	50.7796	1.0000
3	2.17	Nitrite,N	BMB	2.969	9.9187	9.9187	1.0000
4	2.47	Sulfate	BMB	4.746	52.3994	52.3994	1.0000
5	2.69	Bromide	BMB	0.354	10.2175	10.2175	1.0000
6	3.02	Nitrate	BMB	3.214	10.2785	10.2785	1.0000
7	3.21	Chlorate	BMB	0.089	8.0014	8.0014	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.395**		**152.09**	

57 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 17:03**	*Sample Weight:*	**1.0000**

Run Time:



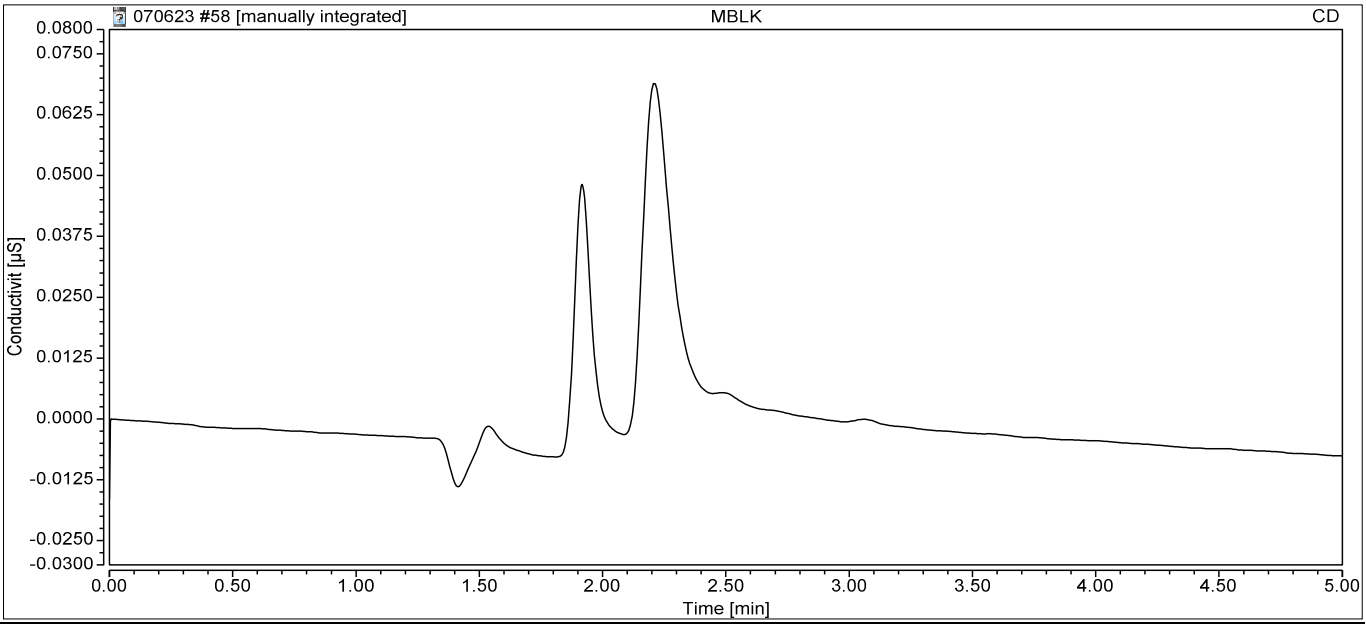
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

58 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 17:20**	*Sample Weight:*	**1.0000**

Run Time:



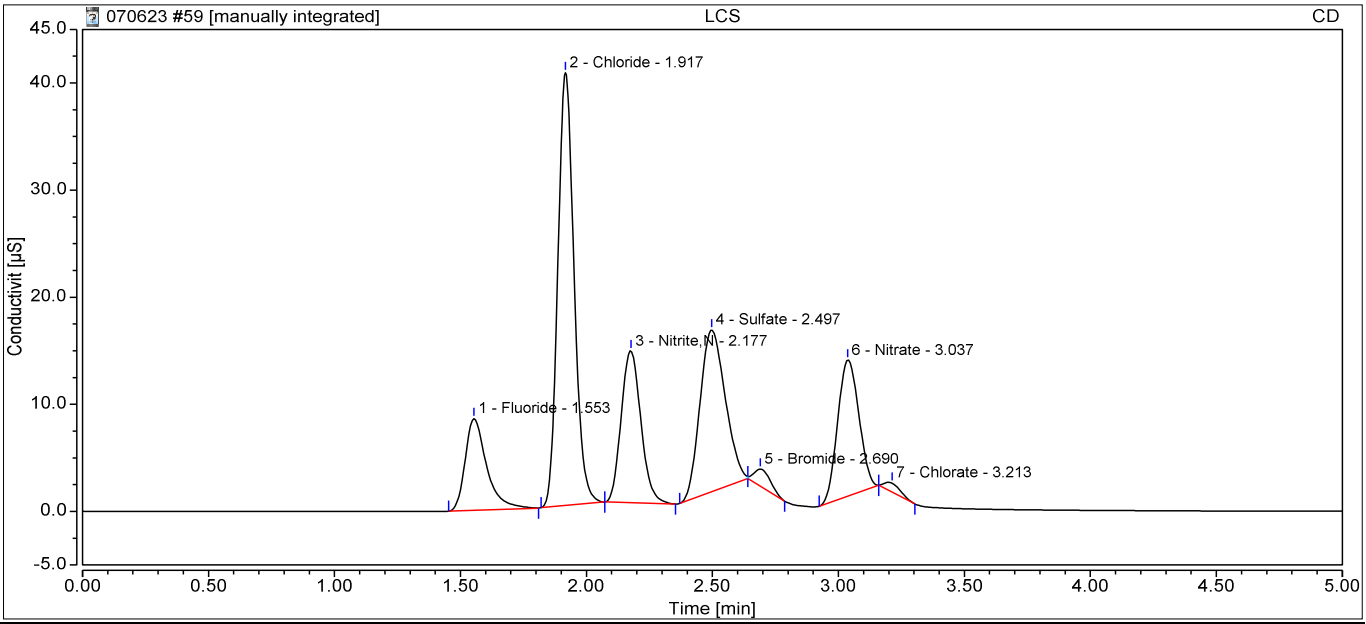
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

59 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 17:31**	*Sample Weight:*	**1.0000**

Run Time:



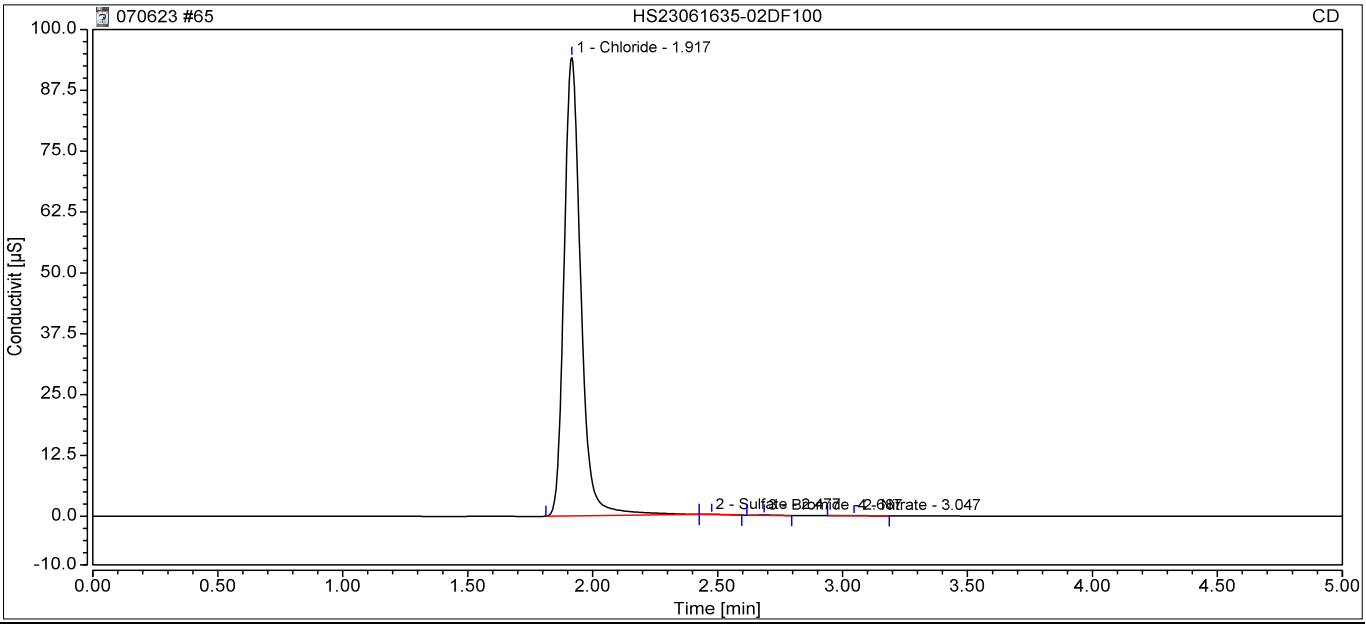
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.847	3.9358	3.9358	1.0000
2	1.92	Chloride	BMB	3.015	19.8801	19.8801	1.0000
3	2.18	Nitrite,N	BMB	1.287	3.9716	3.9716	1.0000
4	2.50	Sulfate	BM *	1.749	19.4270	19.4270	1.0000
5	2.69	Bromide	MB*	0.123	3.6386	3.6386	1.0000
6	3.04	Nitrate	BMB	1.242	3.9901	3.9901	1.0000
7	3.21	Chlorate	BMB	0.061	5.1109	5.1109	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.324**		**59.95**	

65 HS23061635-02DF100

Sample Name:	**HS23061635-02DF100**	*Injection Volume:*	**5.00**
Vial Number:	**RE5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**100.0000**
Recording Time:	**07/06/2023 18:06**	*Sample Weight:*	**1.0000**

Run Time:



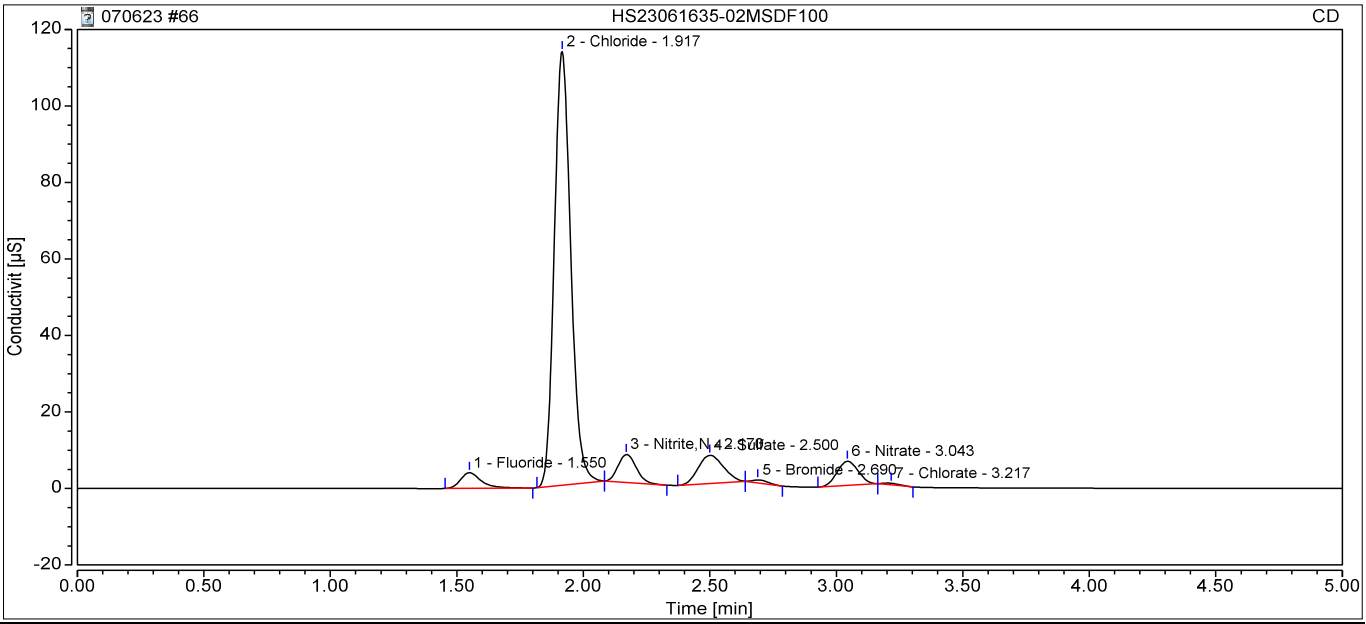
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	100.0000
1	1.92	Chloride	BMB	7.344	48.1450	4814.4968	100.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	100.0000
2	2.48	Sulfate	BMB	0.005	0.2450	24.4964	100.0000
3	2.69	Bromide	BMB	0.004	0.2384	23.8441	100.0000
4	3.05	Nitrate	BMB	0.004	0.0392	3.9157	100.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	100.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	100.0000
Total:			**0.000**	**7.357**		**4866.75**	

66 HS23061635-02MSDF100

Sample Name:	**HS23061635-02MSDF100**	*Injection Volume:*	**5.00**
Vial Number:	**RE6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**100.0000**
Recording Time:	**07/06/2023 18:12**	*Sample Weight:*	**1.0000**

Run Time:



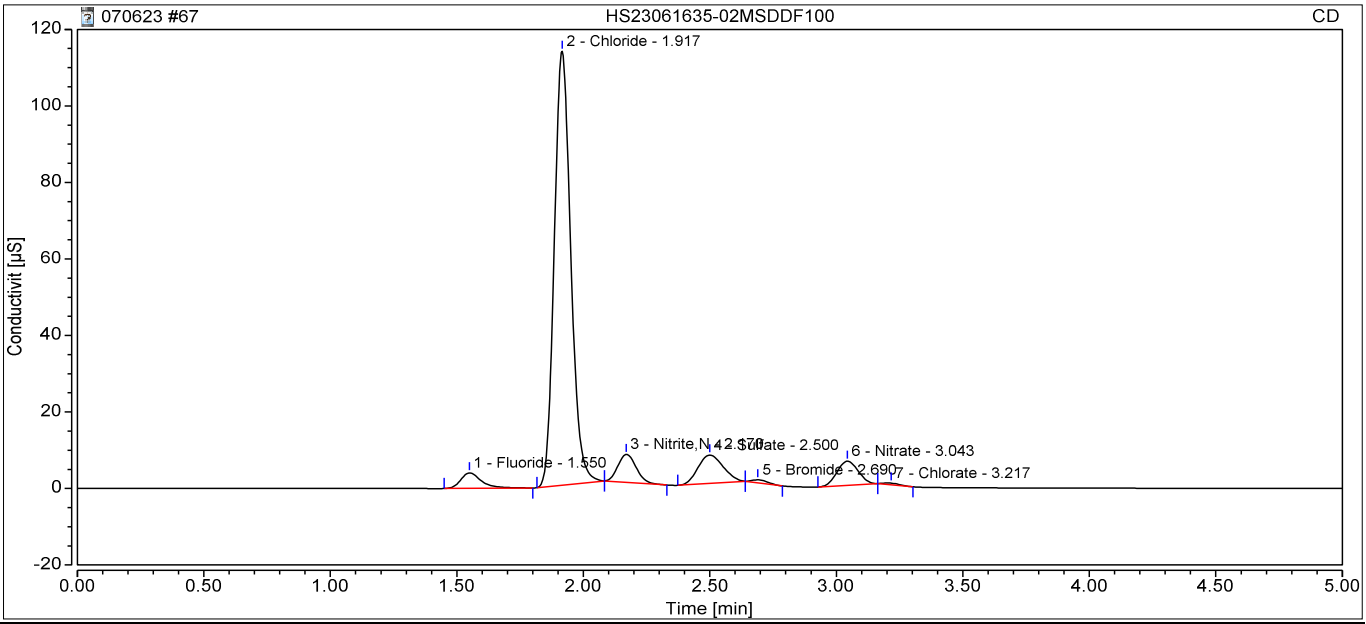
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.391	1.8477	184.7692	100.0000
2	1.92	Chloride	BMB	8.552	56.0356	5603.5623	100.0000
3	2.17	Nitrite,N	BMB	0.611	1.8426	184.2585	100.0000
4	2.50	Sulfate	BMB	0.849	9.5319	953.1864	100.0000
5	2.69	Bromide	BMB	0.058	1.7900	178.9967	100.0000
6	3.04	Nitrate	BMB	0.610	1.9726	197.2594	100.0000
7	3.22	Chlorate	BMB	0.031	2.4212	242.1249	100.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	100.0000
Total:			**0.000**	**11.103**		**7544.16**	

67 HS23061635-02MSDDF100

Sample Name:	**HS23061635-02MSDDF100**	*Injection Volume:*	**5.00**
Vial Number:	**RE7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**100.0000**
Recording Time:	**07/06/2023 18:18**	*Sample Weight:*	**1.0000**

Run Time:



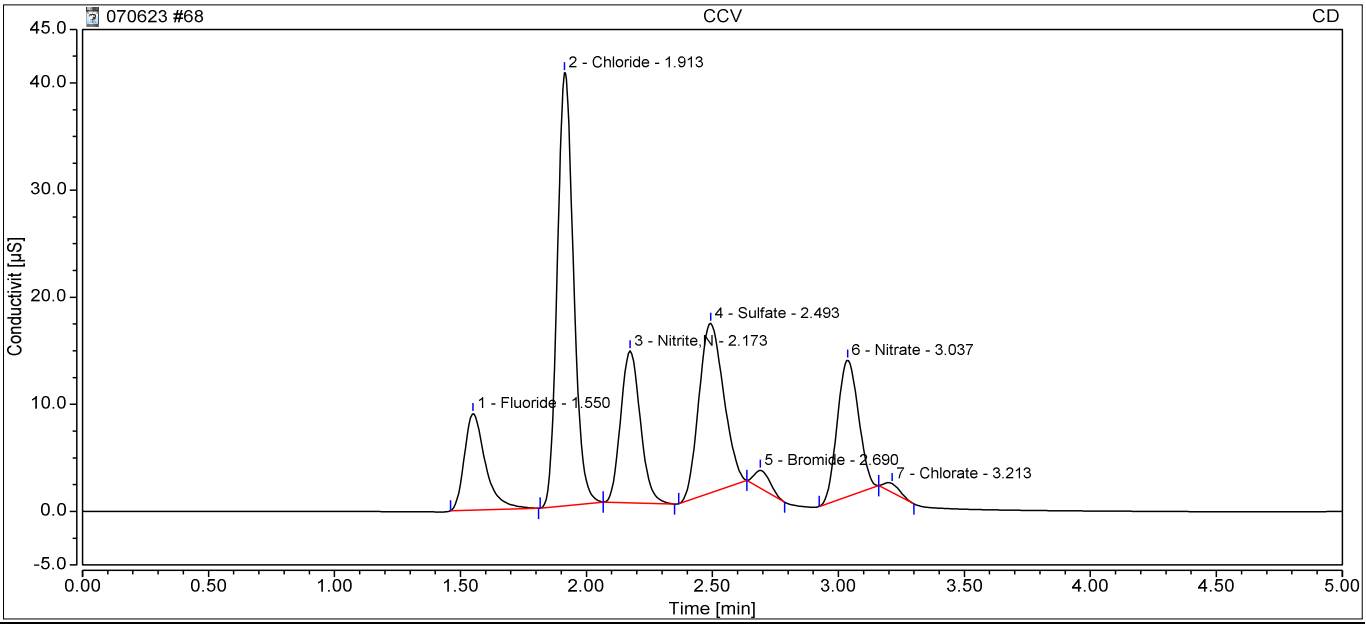
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.385	1.8192	181.9184	100.0000
2	1.92	Chloride	BMB	8.549	56.0176	5601.7604	100.0000
3	2.17	Nitrite,N	BMB	0.611	1.8414	184.1431	100.0000
4	2.50	Sulfate	BMB	0.854	9.5889	958.8914	100.0000
5	2.69	Bromide	BMB	0.059	1.7956	179.5588	100.0000
6	3.04	Nitrate	BMB	0.611	1.9757	197.5663	100.0000
7	3.22	Chlorate	BMB	0.031	2.4148	241.4833	100.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	100.0000
Total:			**0.000**	**11.100**		**7545.32**	

68 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 18:35**	*Sample Weight:*	**1.0000**

Run Time:



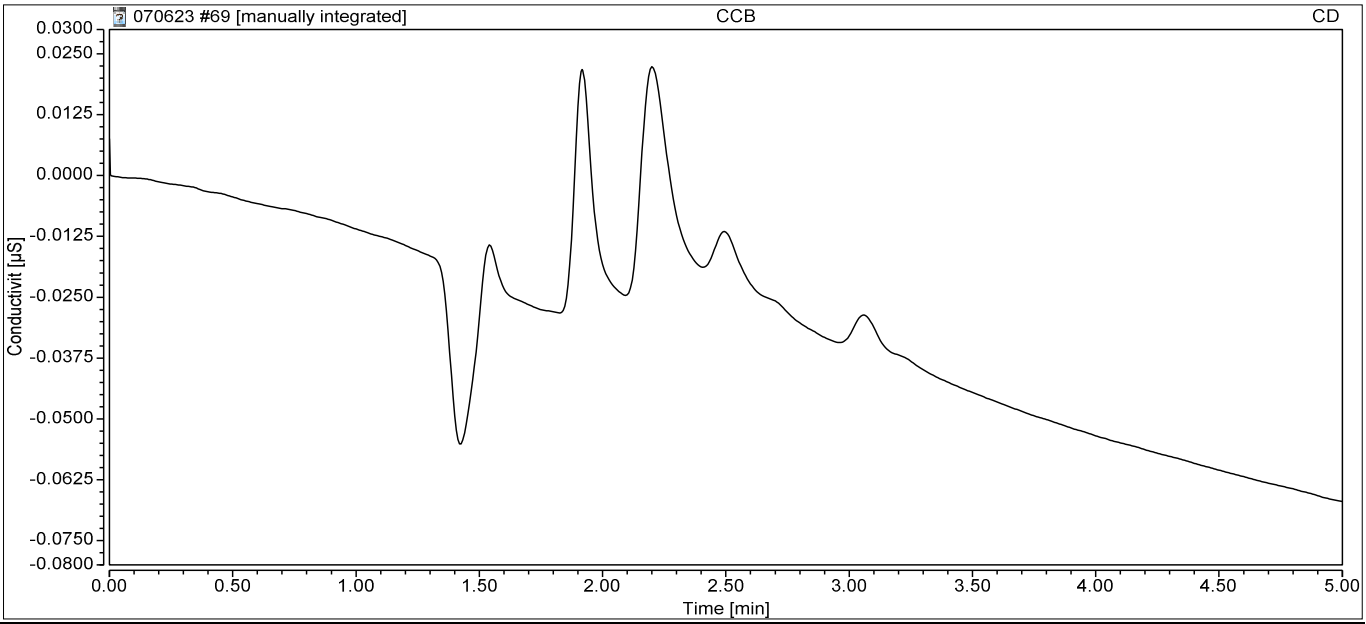
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.875	4.0663	4.0663	1.0000
2	1.91	Chloride	BMB	3.018	19.8976	19.8976	1.0000
3	2.17	Nitrite,N	BMB	1.286	3.9693	3.9693	1.0000
4	2.49	Sulfate	BMB	1.799	19.9825	19.9825	1.0000
5	2.69	Bromide	BMB	0.123	3.6237	3.6237	1.0000
6	3.04	Nitrate	BMB	1.246	4.0004	4.0004	1.0000
7	3.21	Chlorate	BMB	0.059	4.9293	4.9293	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.406**		**60.47**	

69 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 18:41**	*Sample Weight:*	**1.0000**

Run Time:



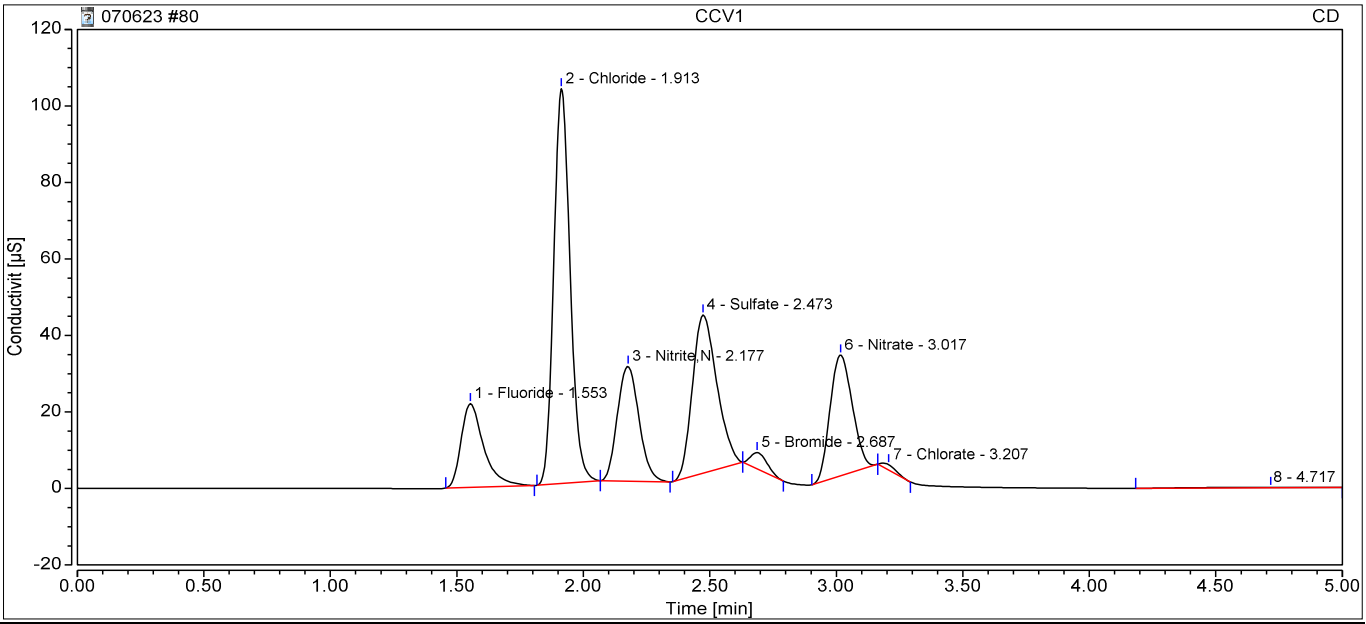
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

80 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 20:02**	*Sample Weight:*	**1.0000**

Run Time:



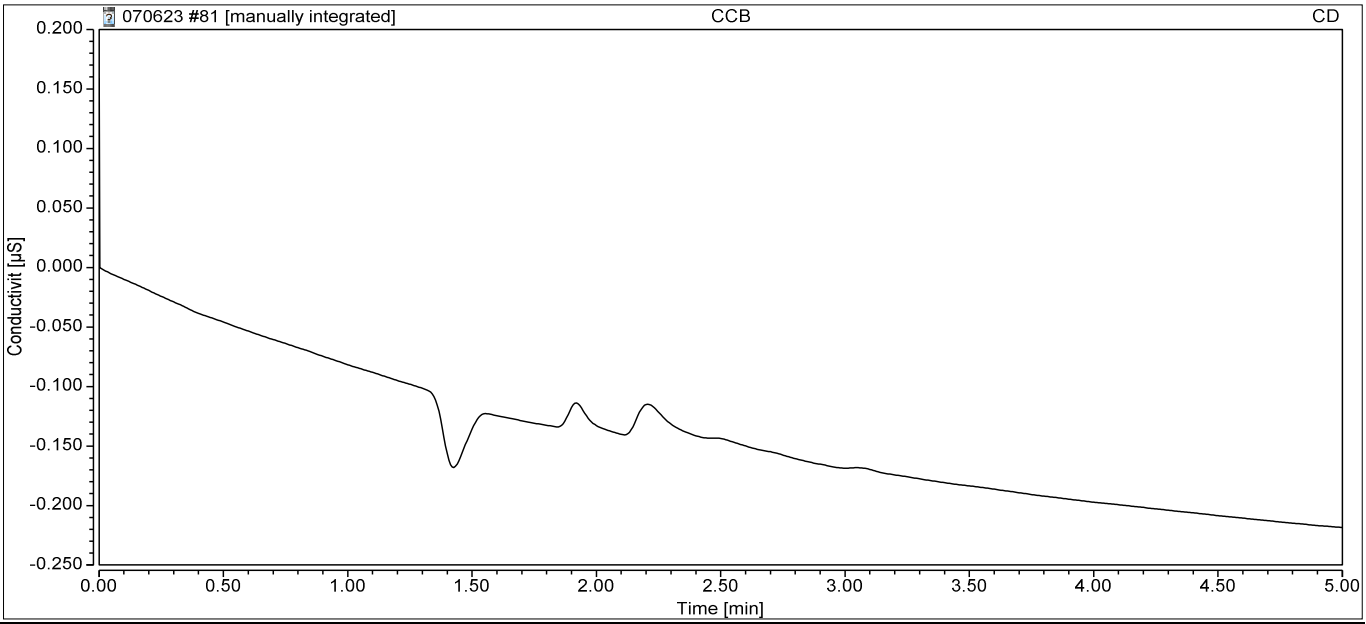
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	2.267	10.4466	10.4466	1.0000
2	1.91	Chloride	BMB	7.739	50.7253	50.7253	1.0000
3	2.18	Nitrite,N	BMB	2.970	9.9210	9.9210	1.0000
4	2.47	Sulfate	BMB	4.622	51.0390	51.0390	1.0000
5	2.69	Bromide	BMB	0.326	9.4397	9.4397	1.0000
6	3.02	Nitrate	BMB	3.208	10.2582	10.2582	1.0000
7	3.21	Chlorate	BMB	0.091	8.2169	8.2169	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.223**		**150.05**	

81 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 20:08**	*Sample Weight:*	**1.0000**

Run Time:



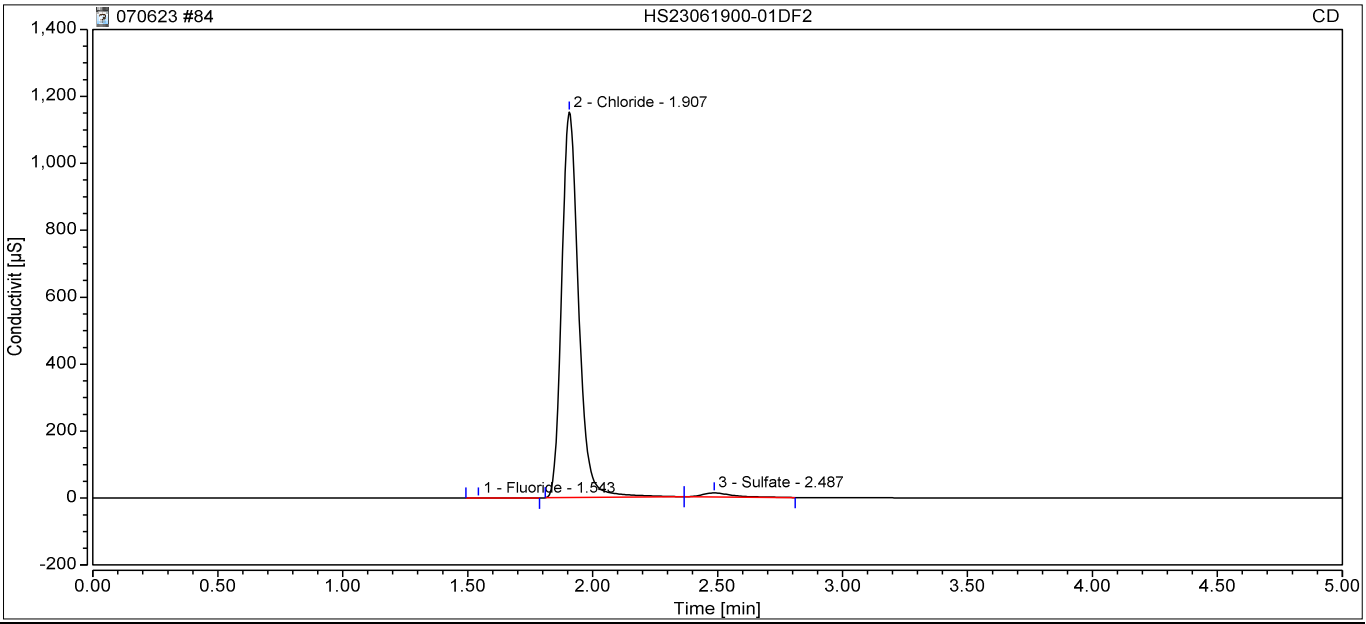
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

84 HS23061900-01DF2

Sample Name:	**HS23061900-01DF2**	*Injection Volume:*	**5.00**
Vial Number:	**GB4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**2.0000**
Recording Time:	**07/06/2023 20:31**	*Sample Weight:*	**1.0000**

Run Time:



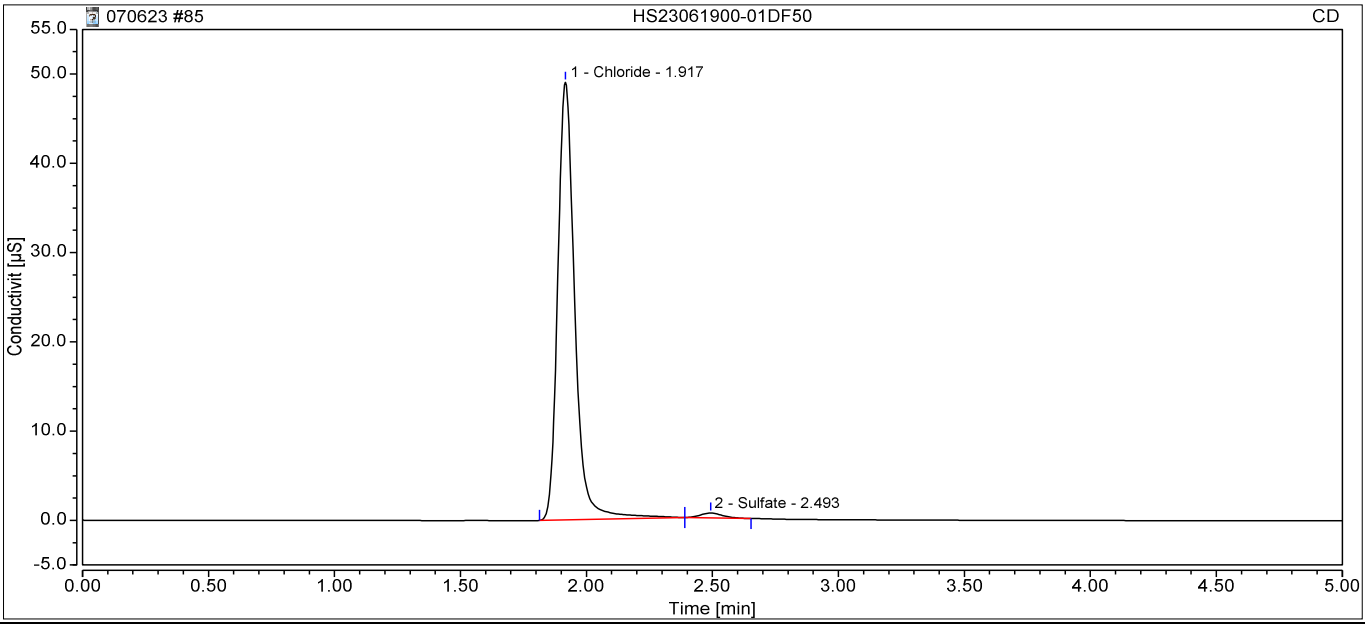
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.008	0.0909	0.1818	2.0000
2	1.91	Chloride	BMB	90.626	591.9977	1183.9955	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
3	2.49	Sulfate	BMB	1.590	17.6799	35.3598	2.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			**0.000**	**92.224**		**1219.54**	

85 HS23061900-01DF50

Sample Name:	**HS23061900-01DF50**	*Injection Volume:*	**5.00**
Vial Number:	**GB5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**07/06/2023 20:37**	*Sample Weight:*	**1.0000**

Run Time:



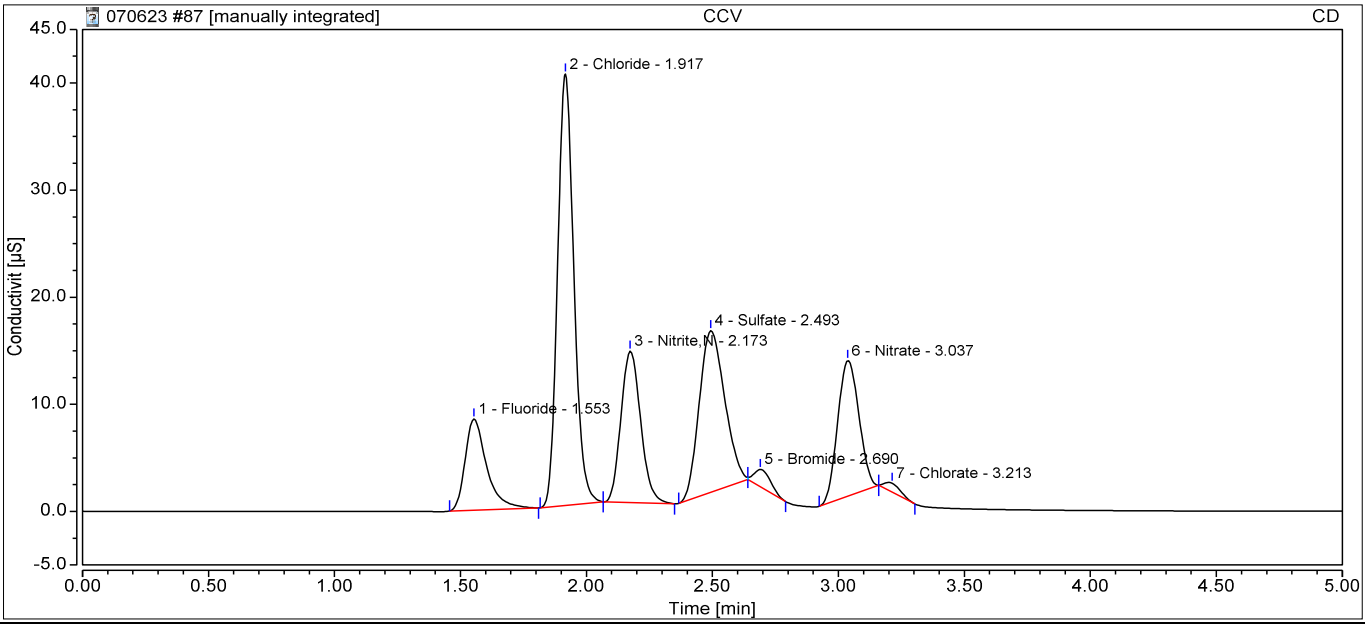
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	1.92	Chloride	BMB	3.850	25.3264	1266.3198	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
2	2.49	Sulfate	BMB	0.054	0.7890	39.4511	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**3.904**		**1305.77**	

87 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 21:00**	*Sample Weight:*	**1.0000**

Run Time:



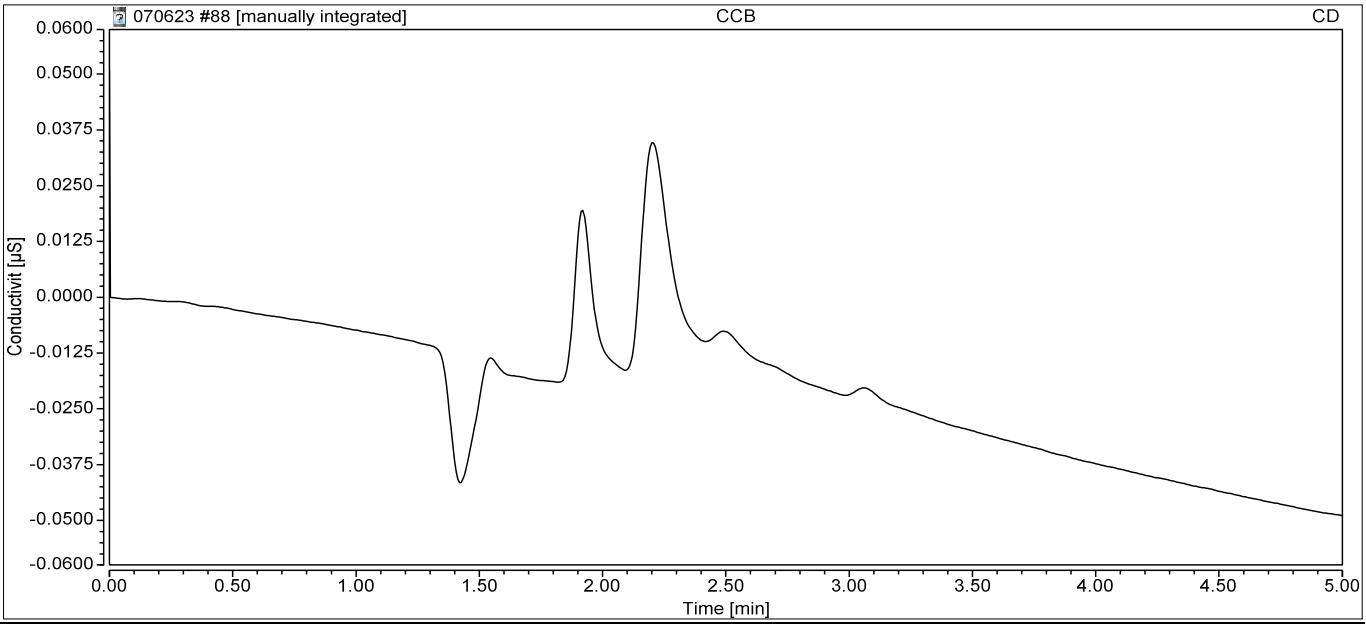
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.845	3.9262	3.9262	1.0000
2	1.92	Chloride	BMB	3.013	19.8608	19.8608	1.0000
3	2.17	Nitrite,N	BMB	1.285	3.9654	3.9654	1.0000
4	2.49	Sulfate	BM *	1.762	19.5757	19.5757	1.0000
5	2.69	Bromide	MB*	0.126	3.7122	3.7122	1.0000
6	3.04	Nitrate	BMB	1.239	3.9782	3.9782	1.0000
7	3.21	Chlorate	BMB	0.060	5.0388	5.0388	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.329**		**60.06**	

88 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**07/06/2023 21:06**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	