

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120621\
 Data File : VN069786.D
 Acq On : 6 Dec 2021 16:18
 Operator : JC/MD
 Sample : M4909-01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HG-SOIL-PILE

Quant Time: Dec 07 03:48:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

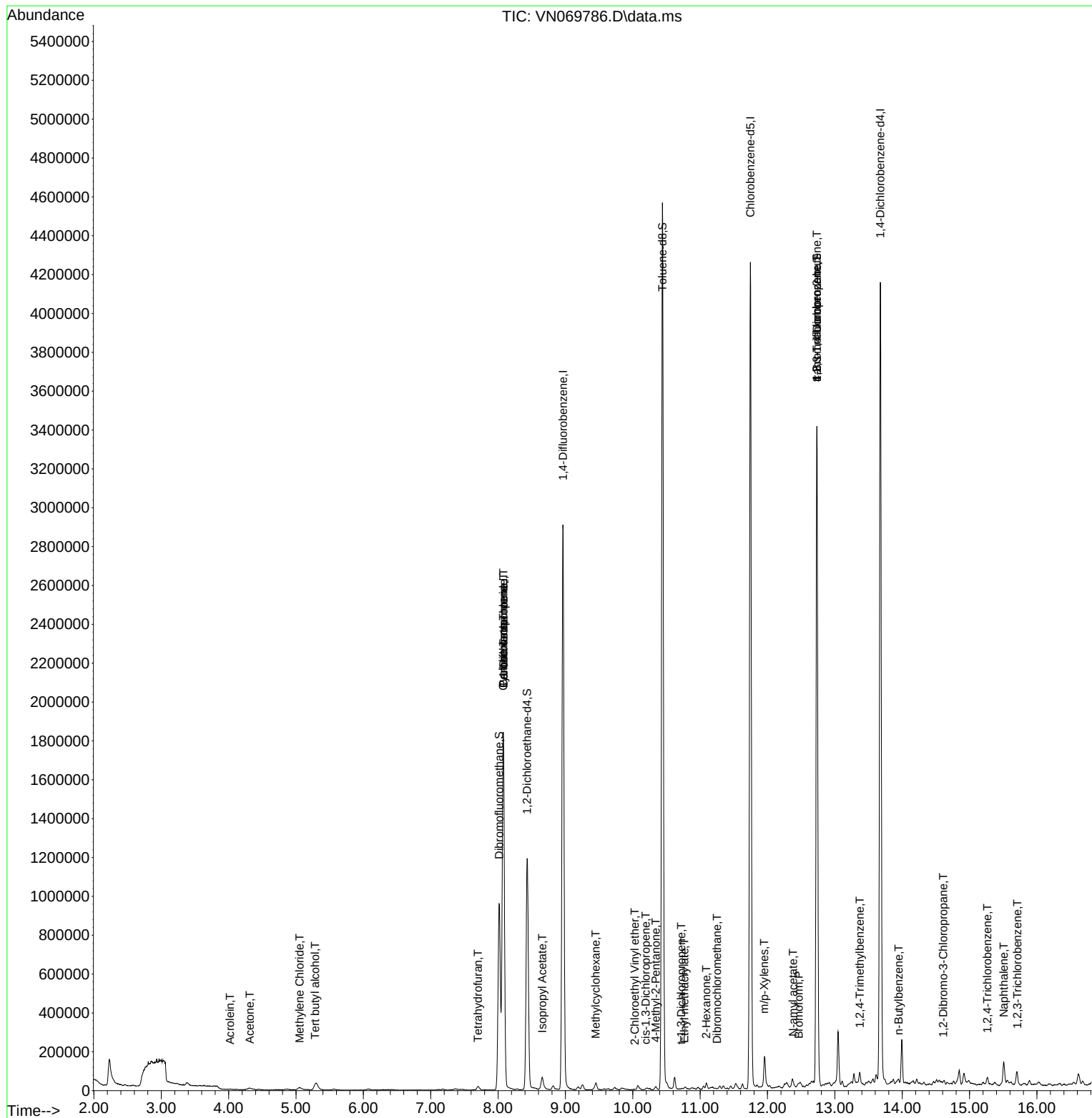
Internal Standards						
1) Pentafluorobenzene	8.078	168	1409653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	2465882	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2368913	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1075441	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.432	65	1030308	47.338	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.680%
35) Dibromofluoromethane	8.016	113	692798	44.854	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	89.700%
50) Toluene-d8	10.440	98	3070008	49.500	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.000%
62) 4-Bromofluorobenzene	12.734	95	1137670	50.634	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	101.260%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.283	59	14043	3.413	ug/l #	72
13) Acrolein	4.020	56	1724	0.492	ug/l	85
16) Acetone	4.315	43	15506	1.184	ug/l	97
20) Methylene Chloride	5.052	84	4718	0.271	ug/l #	81
29) Tetrahydrofuran	7.702	42	16741	1.550	ug/l #	79
31) Cyclohexane	8.075	56	37636	1.243	ug/l #	35
36) 1,1-Dichloropropene	8.078	75	116236	4.952	ug/l #	49
38) Carbon Tetrachloride	8.078	117	144567	6.280	ug/l #	16
39) Methylcyclohexane	9.451	83	13393	0.480	ug/l #	87
43) Isopropyl Acetate	8.657	43	26998	0.522	ug/l #	56
51) 4-Methyl-2-Pentanone	10.341	43	10863	0.324	ug/l	99
53) t-1,3-Dichloropropene	10.719	75	517	2.811	ug/l #	1
54) cis-1,3-Dichloropropene	10.191	75	771	2.023	ug/l #	27
56) Ethyl methacrylate	10.768	69	3600	2.382	ug/l #	73
58) 2-Chloroethyl Vinyl ether	10.030	63	165	18.406	ug/l #	45
59) 2-Hexanone	11.092	43	23105	0.911	ug/l	95
60) Dibromochloromethane	11.250	129	568	2.405	ug/l #	22
68) m/p-Xylenes	11.953	106	7674	0.241	ug/l	97
71) Bromoform	12.465	173	128	2.739	ug/l #	29
74) N-amyl acetate	12.380	43	19184	0.453	ug/l #	58
76) 1,2,3-Trichloropropane	12.734	75	638911	20.716	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	638911	66.356	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.369	105	34001	0.464	ug/l	96
89) n-Butylbenzene	13.946	91	17854	0.304	ug/l #	78
92) 1,2-Dibromo-3-Chloropr...	14.608	75	1516	0.254	ug/l	87
93) 1,2,4-Trichlorobenzene	15.265	180	12760	3.559	ug/l	95
95) Naphthalene	15.507	128	105757	5.837	ug/l	99
96) 1,2,3-Trichlorobenzene	15.708	180	14213	3.222	ug/l	92

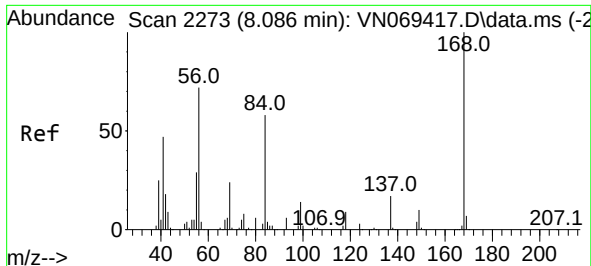
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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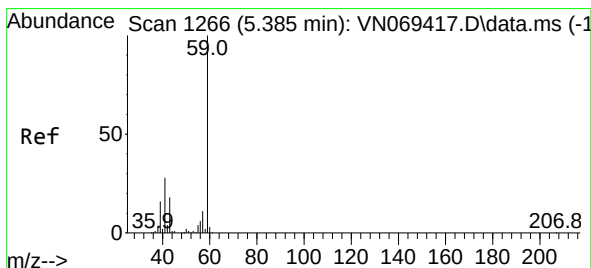
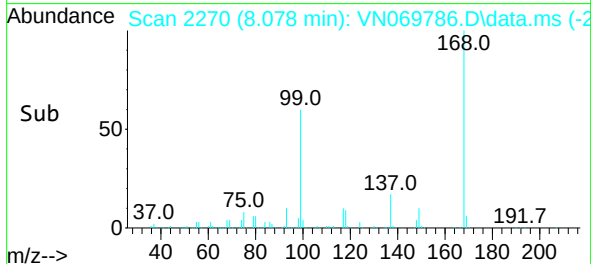
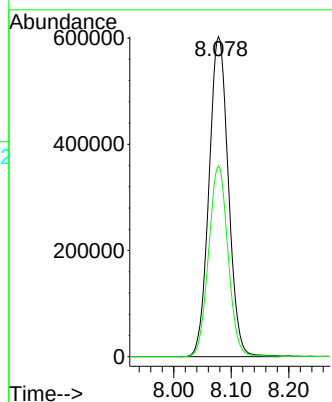
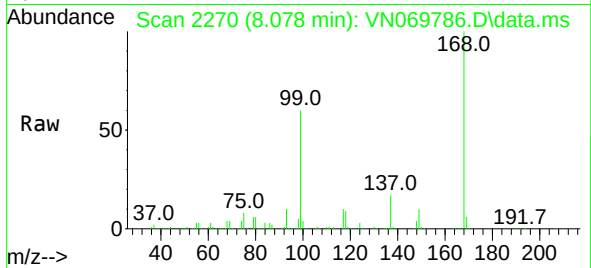




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.078 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

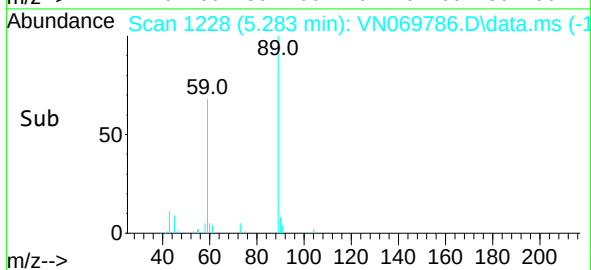
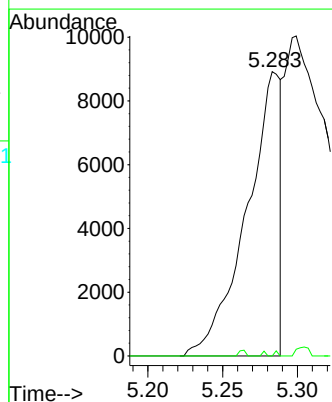
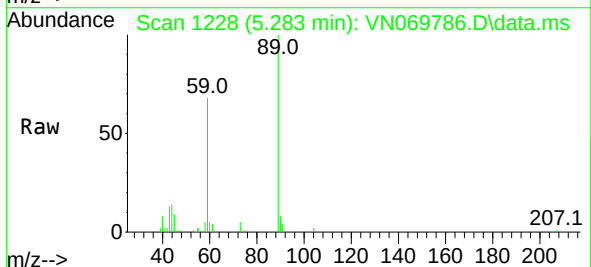
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

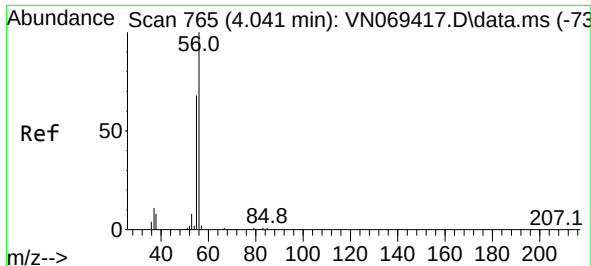
Tgt Ion:168 Resp: 1409653
Ion Ratio Lower Upper
168 100
99 59.6 41.3 61.9



#11
Tert butyl alcohol
Concen: 3.413 ug/l
RT: 5.283 min Scan# 1228
Delta R.T. -0.107 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 59 Resp: 14043
Ion Ratio Lower Upper
59 100
57 0.2 8.7 13.1#

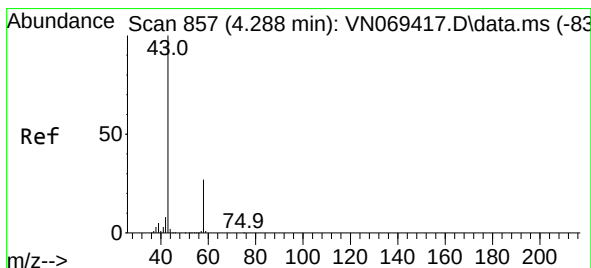
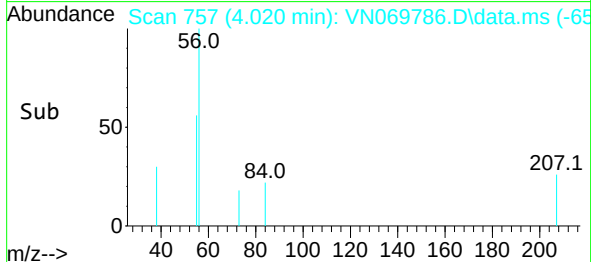
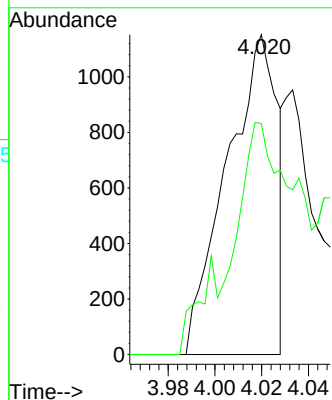
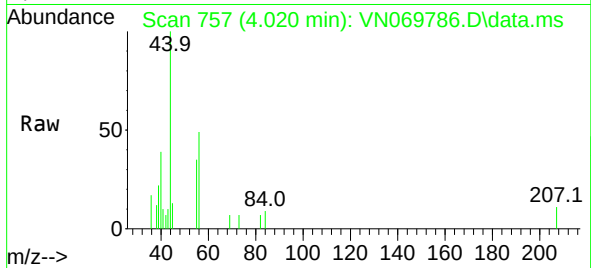




#13
Acrolein
Concen: 0.492 ug/l
RT: 4.020 min Scan# 765
Delta R.T. -0.019 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

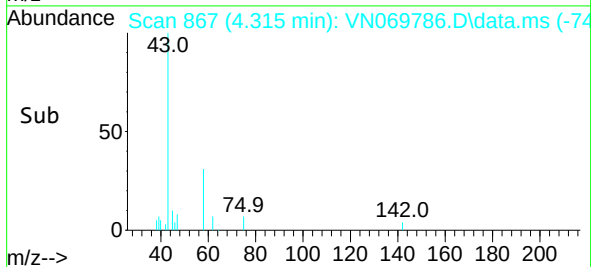
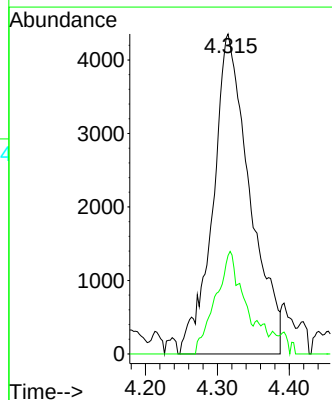
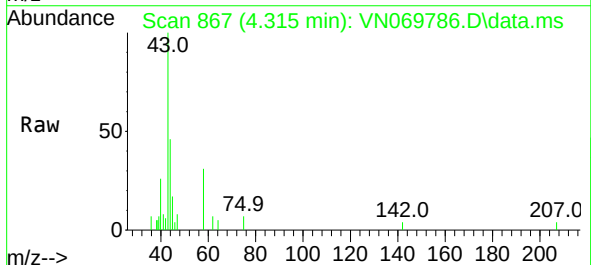
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

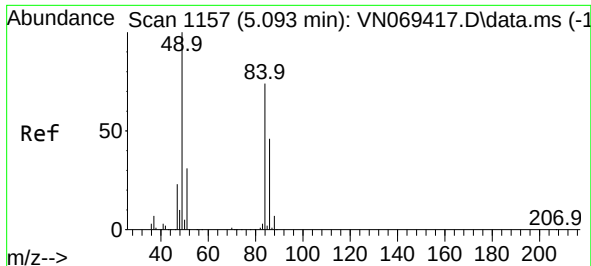
Tgt Ion: 56 Resp: 1724
Ion Ratio Lower Upper
56 100
55 58.1 56.6 85.0



#16
Acetone
Concen: 1.184 ug/l
RT: 4.315 min Scan# 867
Delta R.T. 0.024 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

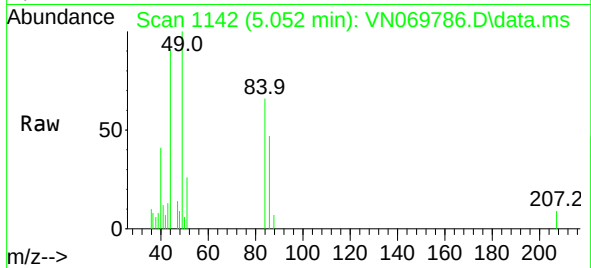
Tgt Ion: 43 Resp: 15506
Ion Ratio Lower Upper
43 100
58 30.7 23.1 34.7



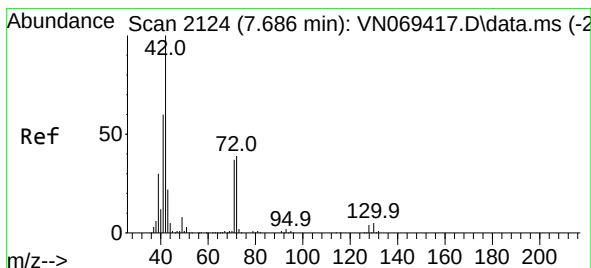
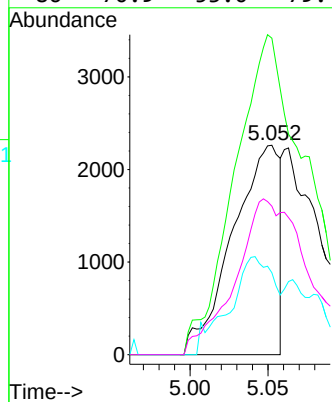
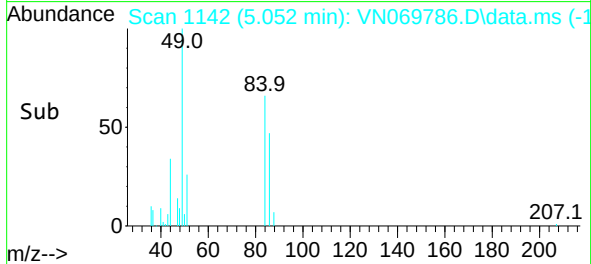


#20
Methylene Chloride
Concen: 0.271 ug/l
RT: 5.052 min Scan# 1157
Delta R.T. -0.040 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Instrument :
MSVOA_N
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HG-SOIL-PILE

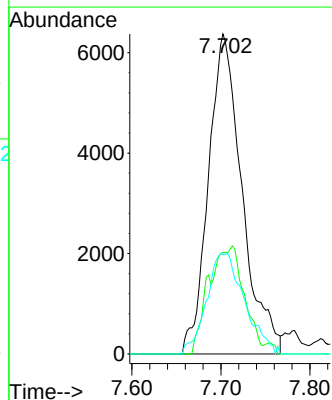
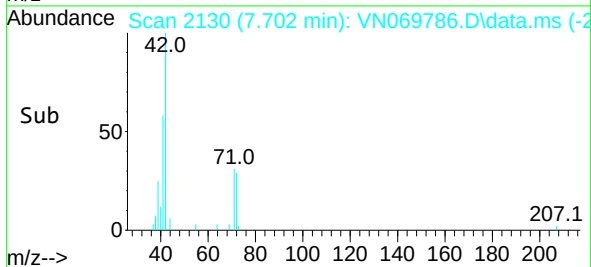
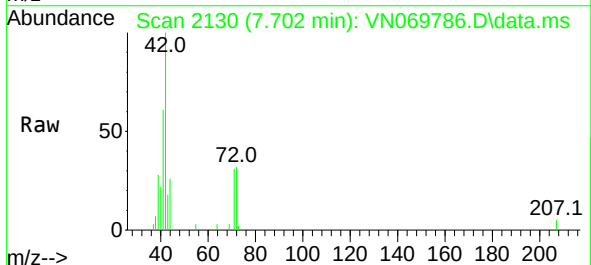


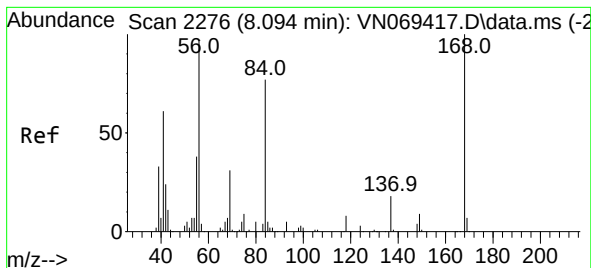
Tgt Ion: 84 Resp: 4718
Ion Ratio Lower Upper
84 100
49 151.1 93.5 140.3#
51 39.1 29.4 44.2
86 70.9 53.0 79.4



#29
Tetrahydrofuran
Concen: 1.550 ug/l
RT: 7.702 min Scan# 2130
Delta R.T. 0.016 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 42 Resp: 16741
Ion Ratio Lower Upper
42 100
72 26.9 36.3 54.5#
71 35.3 34.7 52.1





#31

Cyclohexane

Concen: 1.243 ug/l

RT: 8.075 min Scan# 21

Delta R.T. -0.019 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

Instrument :

MSVOA_N

ClientSampleId :

HG-SOIL-PILE

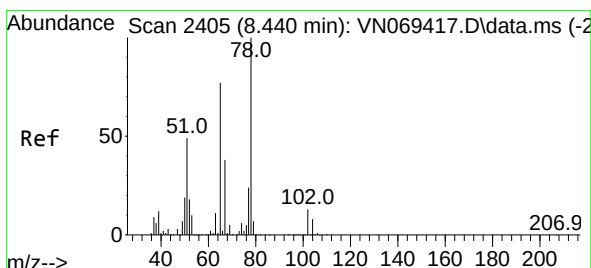
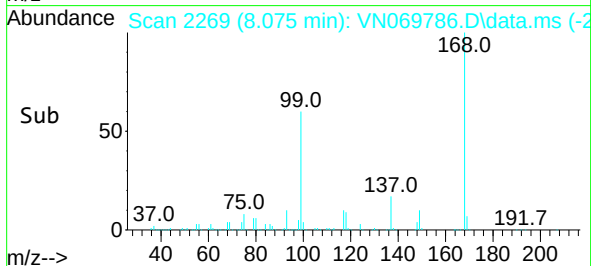
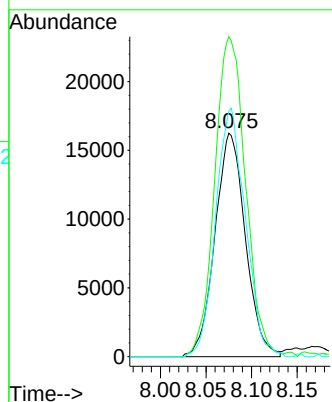
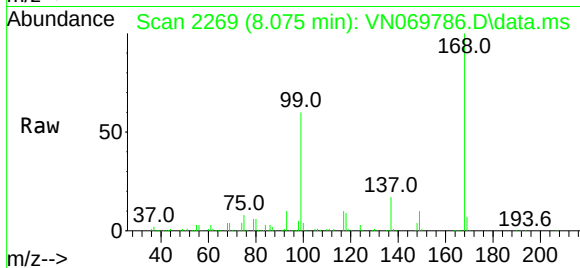
Tgt Ion: 56 Resp: 37636

Ion Ratio Lower Upper

56 100

69 143.1 27.1 40.7#

84 109.8 73.4 110.0



#33

1,2-Dichloroethane-d4

Concen: 47.338 ug/l

RT: 8.432 min Scan# 2402

Delta R.T. -0.005 min

Lab File: VN069786.D

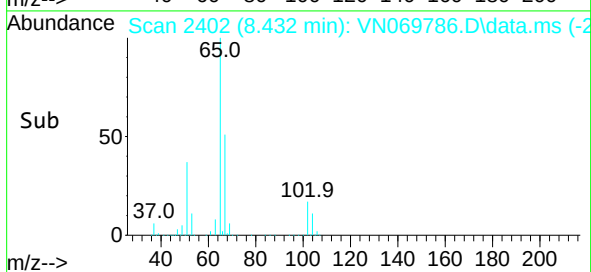
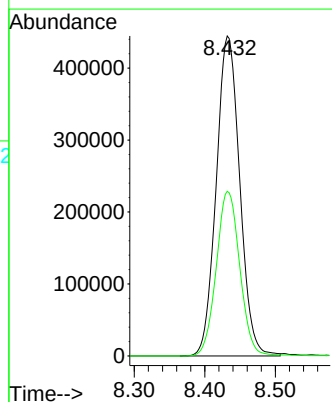
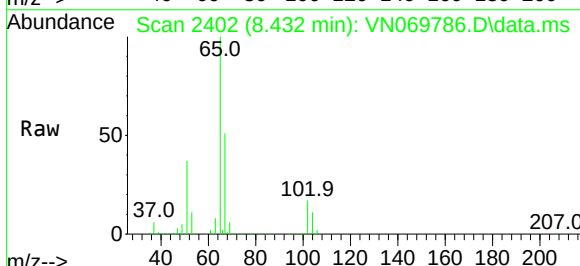
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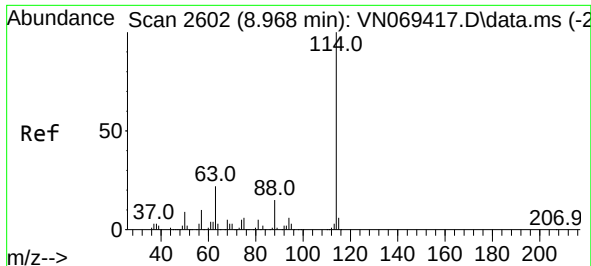
Tgt Ion: 65 Resp: 1030308

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.0

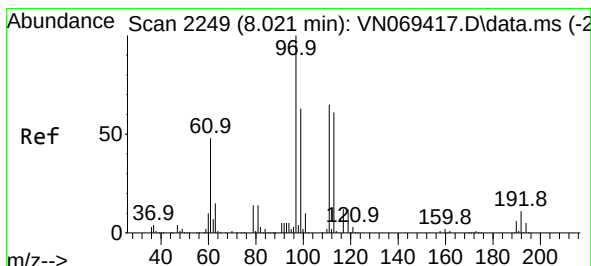
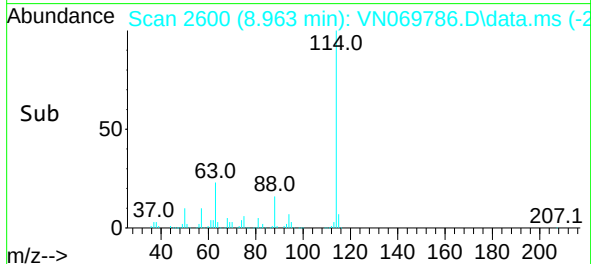
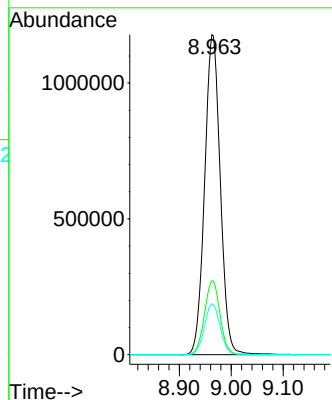
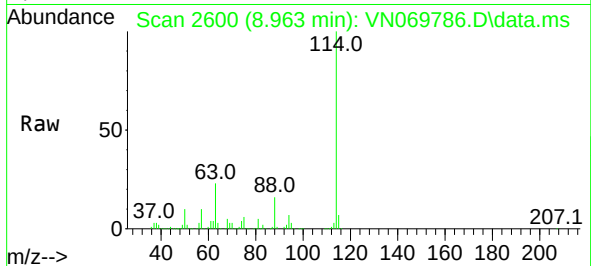




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

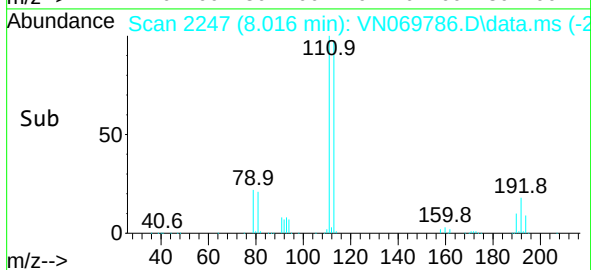
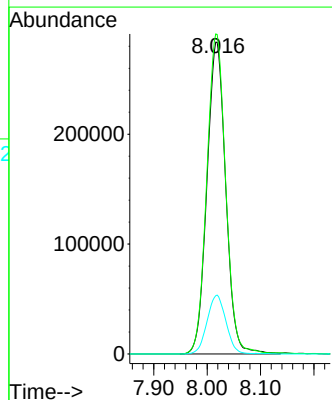
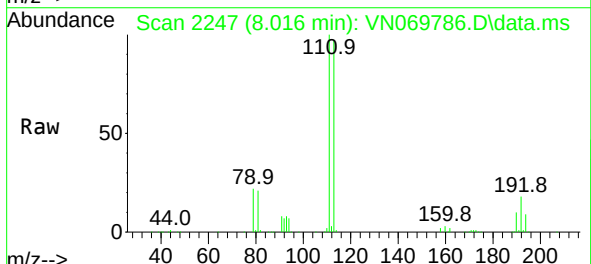
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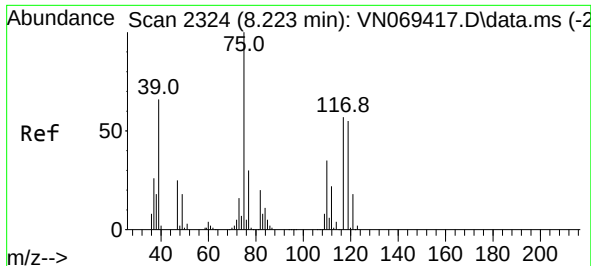
Tgt Ion:114 Resp: 2465882
Ion Ratio Lower Upper
114 100
63 23.1 0.0 37.8
88 15.9 0.0 27.4



#35
Dibromofluoromethane
Concen: 44.854 ug/l
RT: 8.016 min Scan# 2247
Delta R.T. -0.008 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion:113 Resp: 692798
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 18.9 16.9 25.3

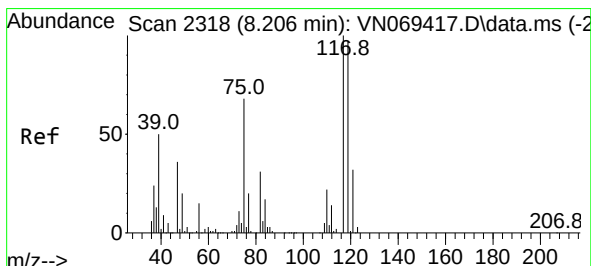
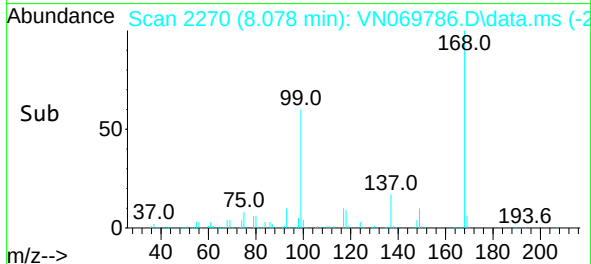
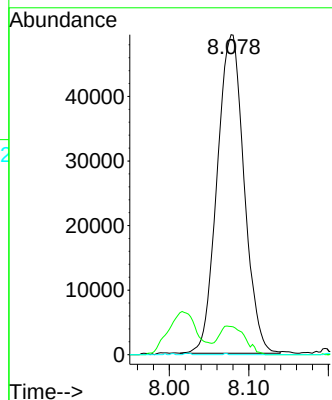
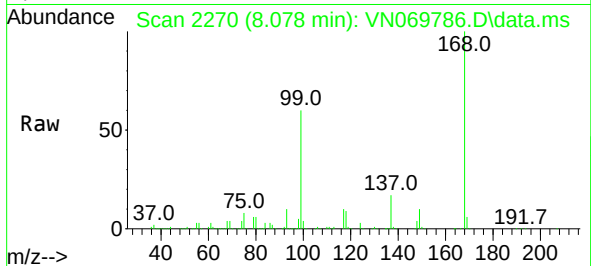




#36
1,1-Dichloropropene
Concen: 4.952 ug/l
RT: 8.078 min Scan# 211
Delta R.T. -0.145 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

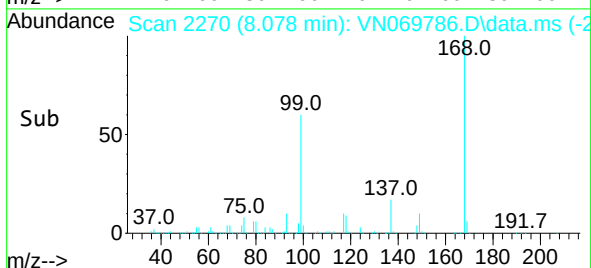
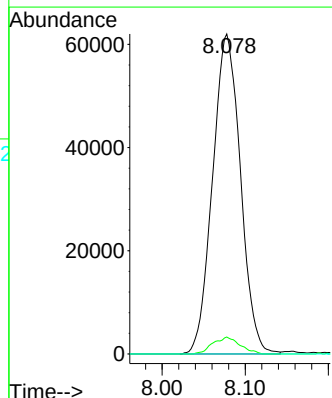
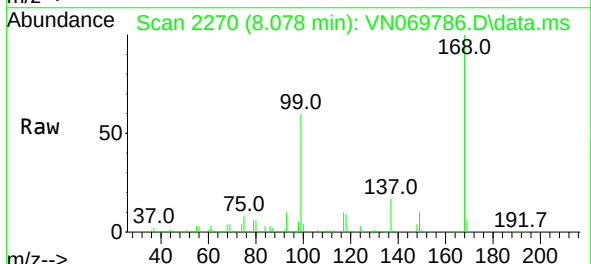
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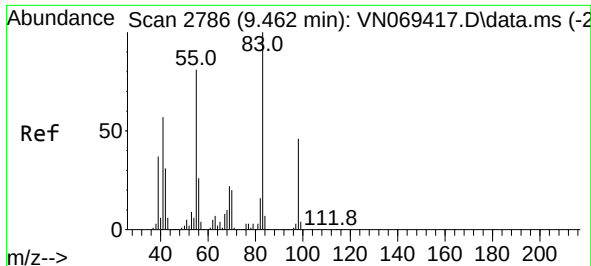
Tgt Ion: 75 Resp: 116236
Ion Ratio Lower Upper
75 100
110 8.8 18.4 55.2#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.280 ug/l
RT: 8.078 min Scan# 2270
Delta R.T. -0.129 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 117 Resp: 144567
Ion Ratio Lower Upper
117 100
119 5.3 76.1 114.1#
121 0.0 24.2 36.2#

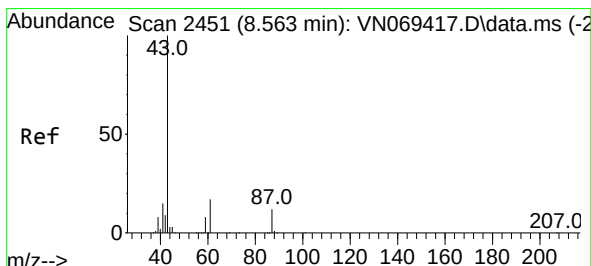
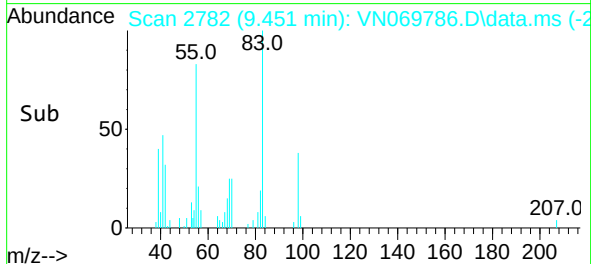
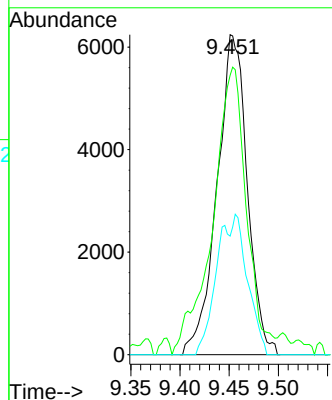
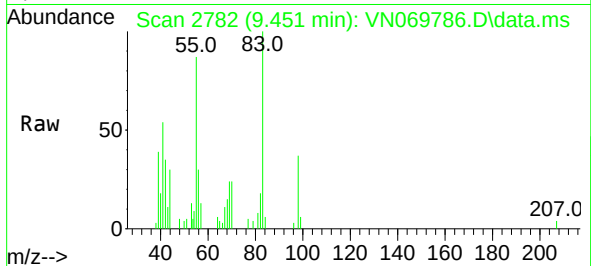




#39
Methylcyclohexane
Concen: 0.480 ug/l
RT: 9.451 min Scan# 21
Delta R.T. -0.011 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

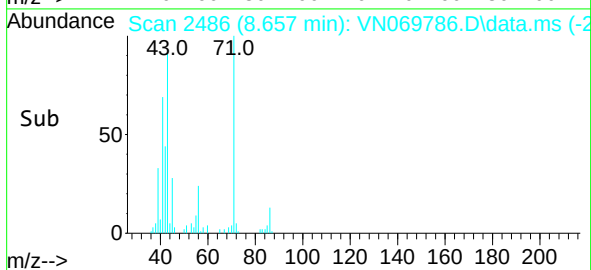
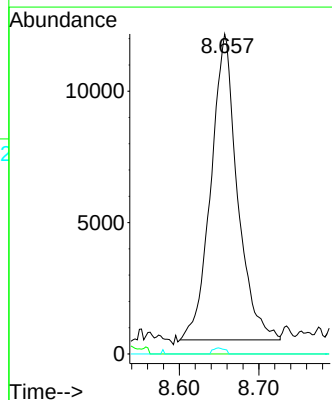
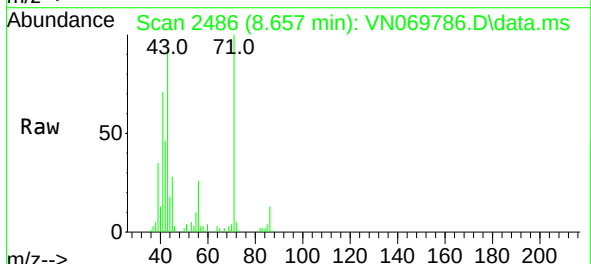
Instrument :
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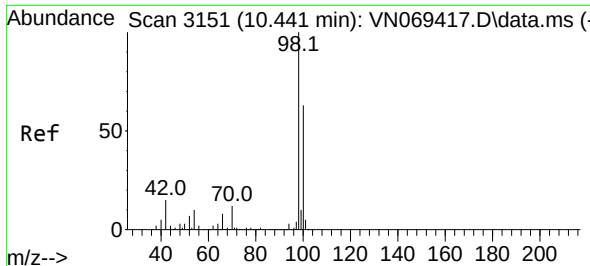
Tgt Ion: 83 Resp: 13393
Ion Ratio Lower Upper
83 100
55 82.0 58.1 87.1
98 37.0 38.4 57.6#



#43
Isopropyl Acetate
Concen: 0.522 ug/l
RT: 8.657 min Scan# 2486
Delta R.T. 0.094 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 43 Resp: 26998
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.9 11.2 16.8#

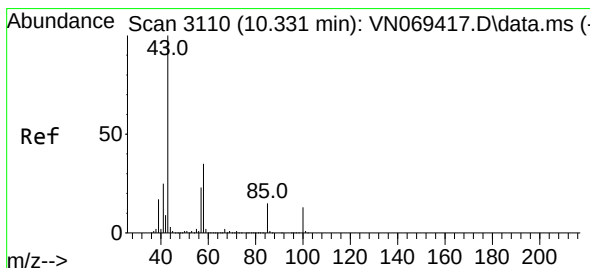
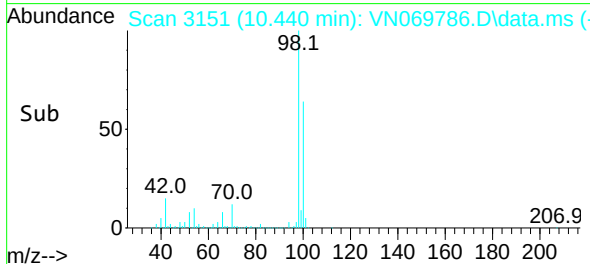
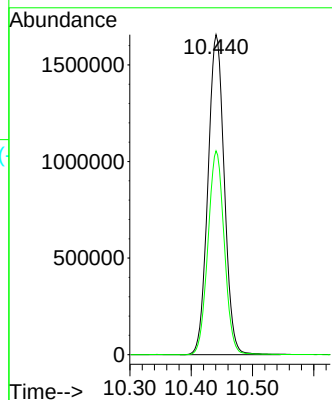
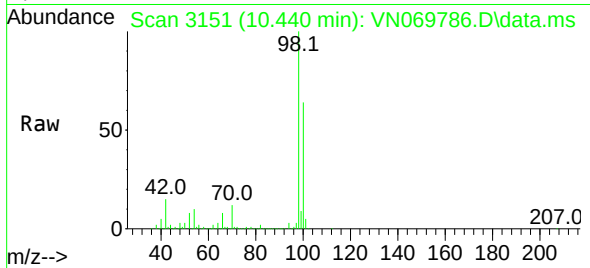




#50
Toluene-d8
Concen: 49.500 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.002 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

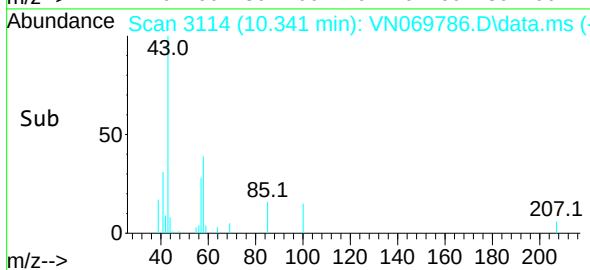
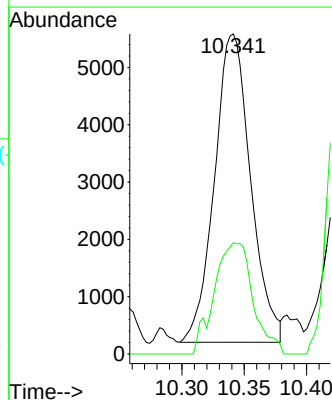
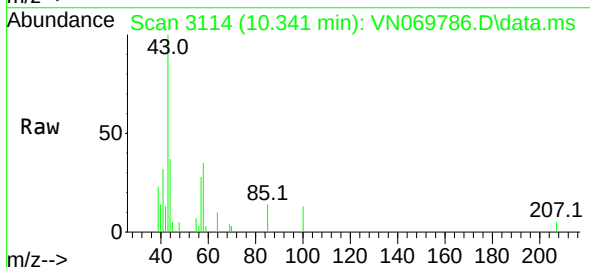
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

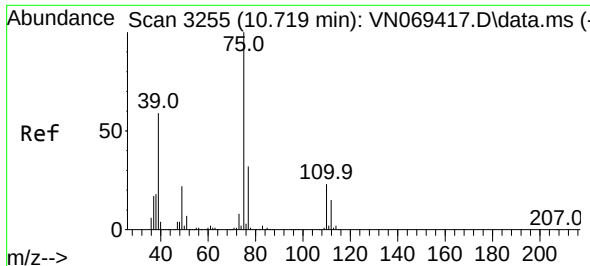
Tgt Ion: 98 Resp: 3070008
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.324 ug/l
RT: 10.341 min Scan# 3114
Delta R.T. 0.008 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 43 Resp: 10863
Ion Ratio Lower Upper
43 100
58 38.5 30.4 45.6

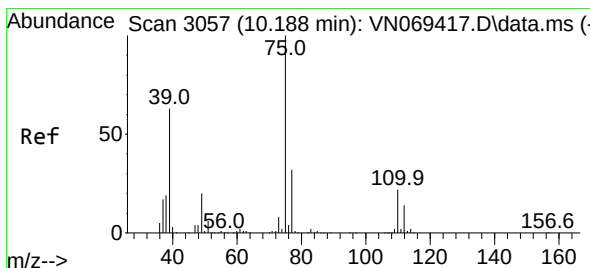
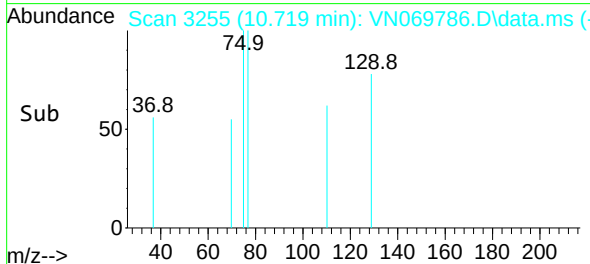
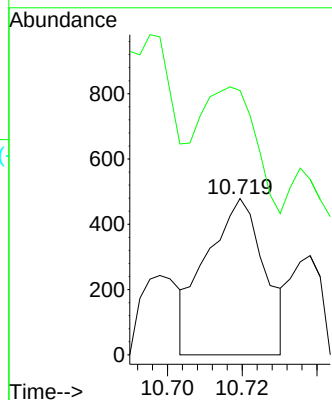
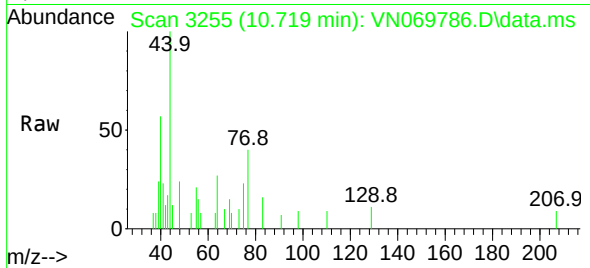




#53
t-1,3-Dichloropropene
Concen: 2.811 ug/l
RT: 10.719 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

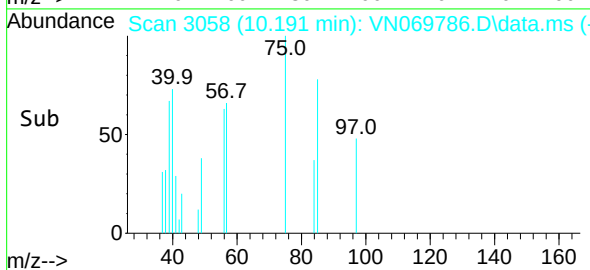
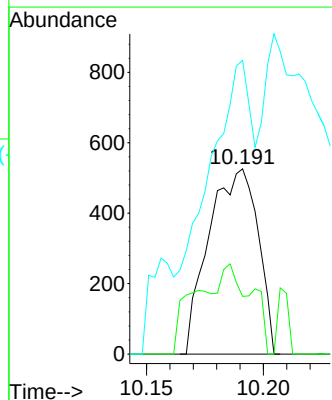
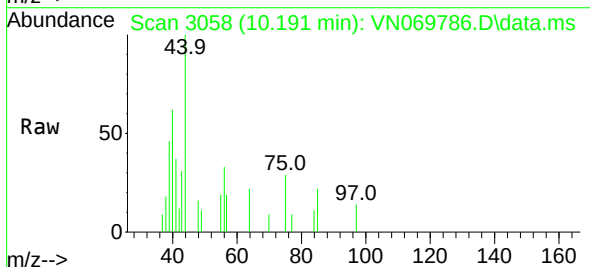
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

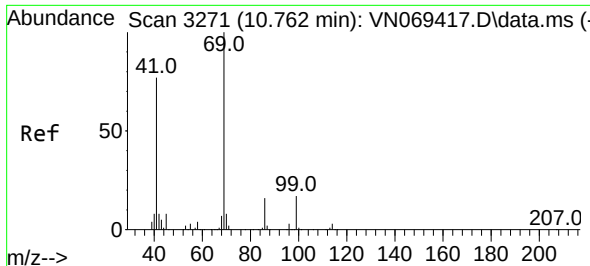
Tgt Ion: 75 Resp: 517
Ion Ratio Lower Upper
75 100
77 134.6 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.023 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. 0.000 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 75 Resp: 771
Ion Ratio Lower Upper
75 100
77 2.3 26.4 39.6#
39 113.3 42.5 63.7#

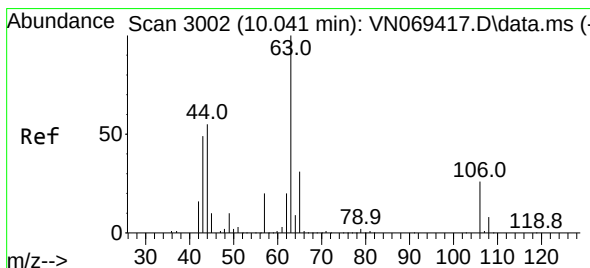
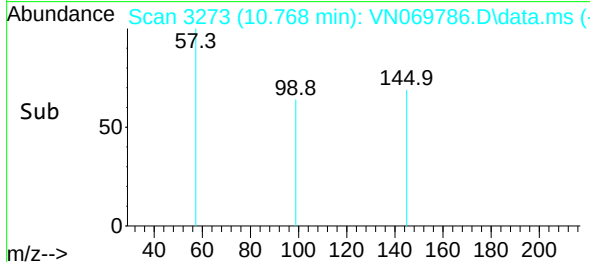
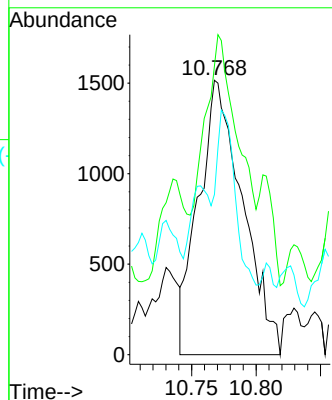
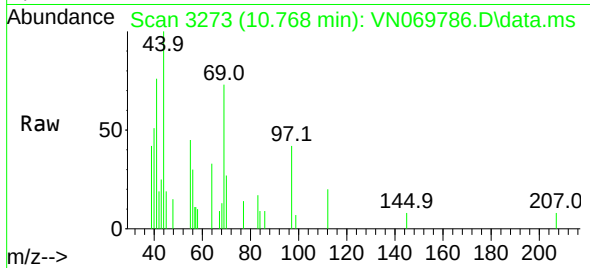




#56
Ethyl methacrylate
Concen: 2.382 ug/l
RT: 10.768 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

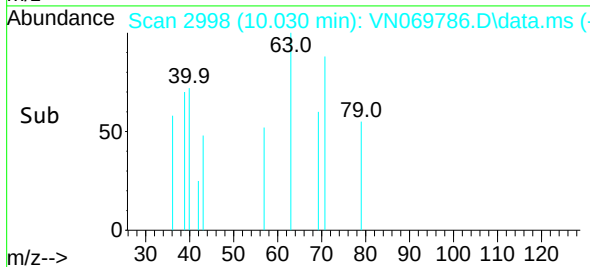
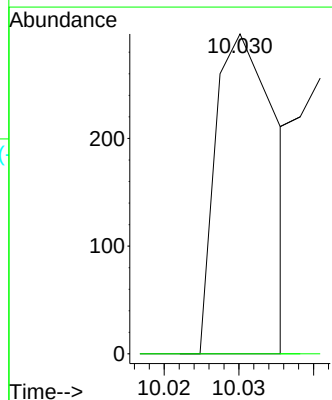
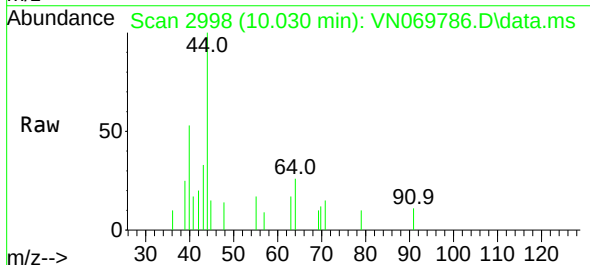
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

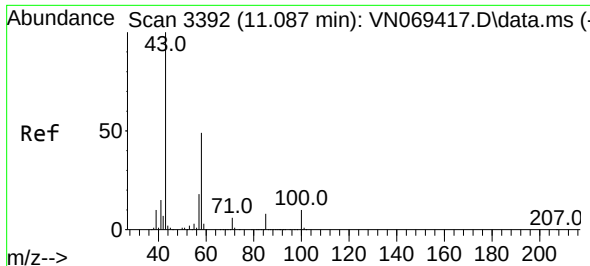
Tgt Ion: 69 Resp: 3600
Ion Ratio Lower Upper
69 100
41 42.3 51.4 77.0#
39 27.3 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.406 ug/l
RT: 10.030 min Scan# 2998
Delta R.T. -0.013 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 63 Resp: 165
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

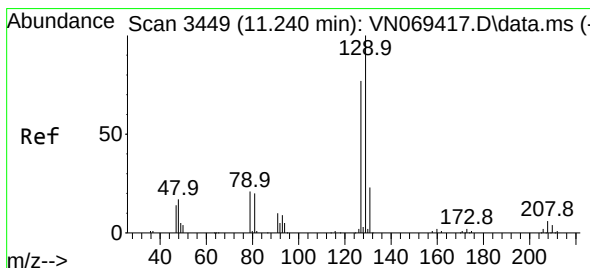
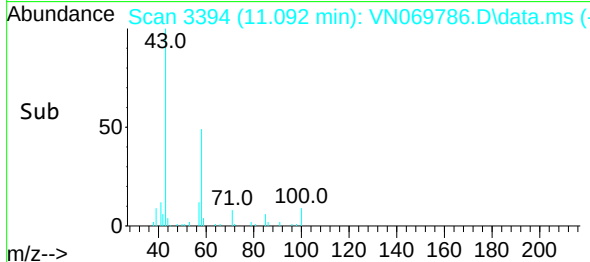
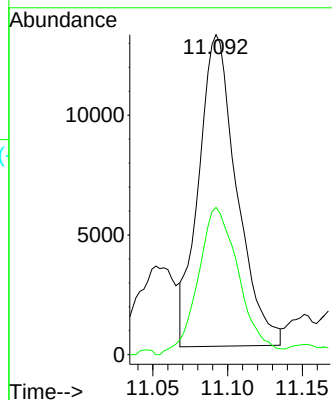
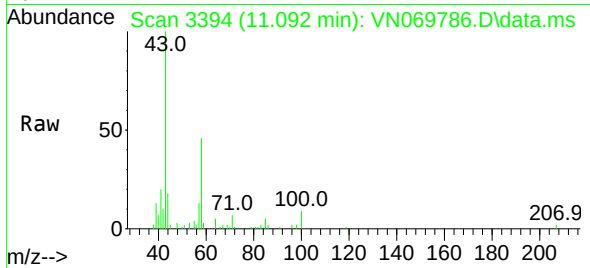




#59
2-Hexanone
Concen: 0.911 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

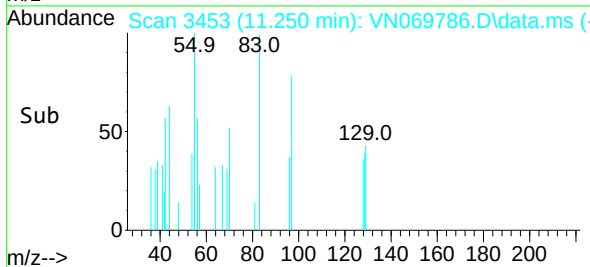
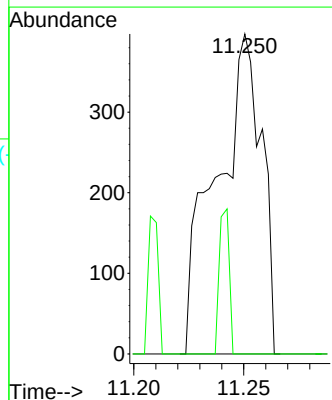
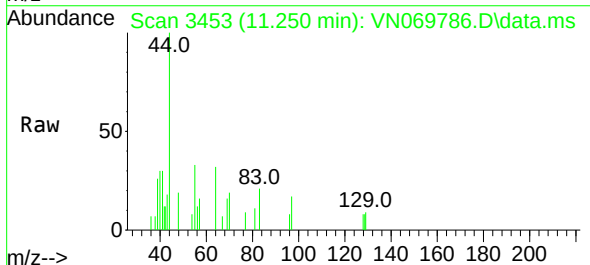
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

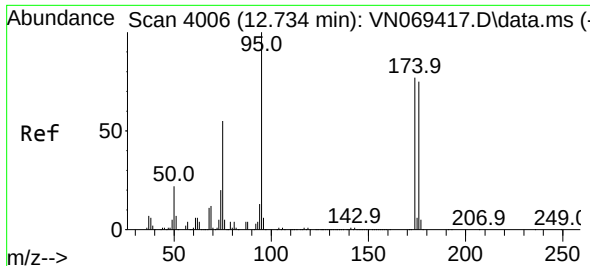
Tgt Ion: 43 Resp: 23105
Ion Ratio Lower Upper
43 100
58 50.4 26.9 80.7



#60
Dibromochloromethane
Concen: 2.405 ug/l
RT: 11.250 min Scan# 3453
Delta R.T. 0.010 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 129 Resp: 568
Ion Ratio Lower Upper
129 100
127 9.9 38.6 116.0#

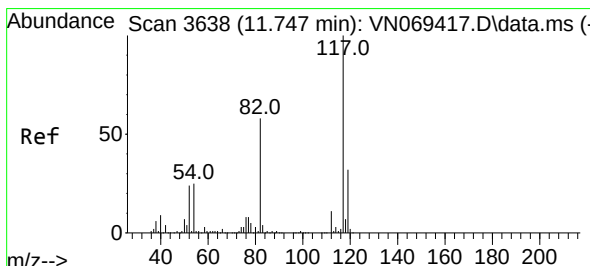
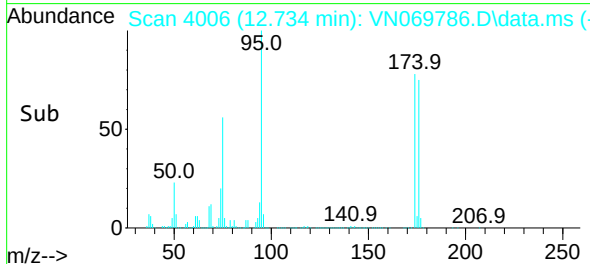
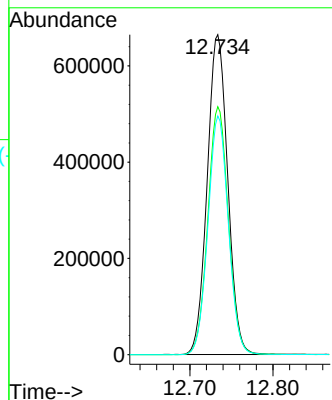
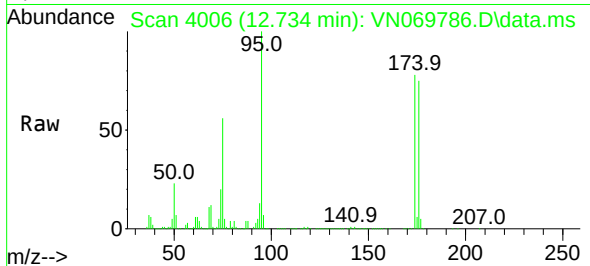




#62
4-Bromofluorobenzene
Concen: 50.634 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

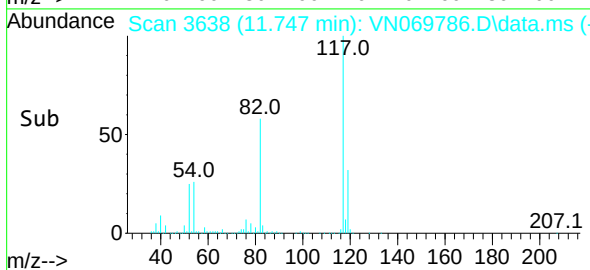
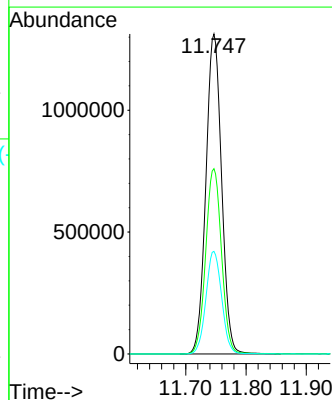
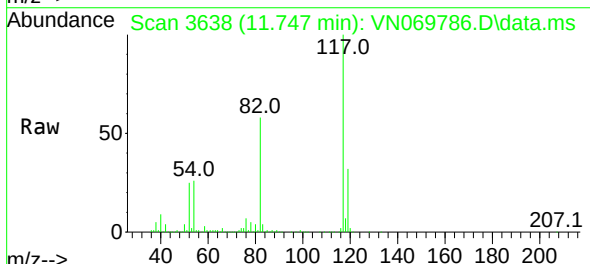
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

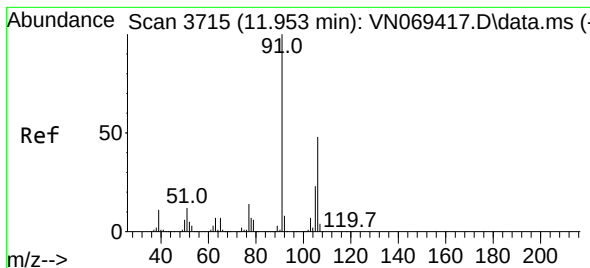
Tgt Ion: 95 Resp: 1137670
Ion Ratio Lower Upper
95 100
174 77.8 0.0 187.2
176 74.3 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 117 Resp: 2368913
Ion Ratio Lower Upper
117 100
82 57.9 42.4 63.6
119 32.1 25.4 38.2

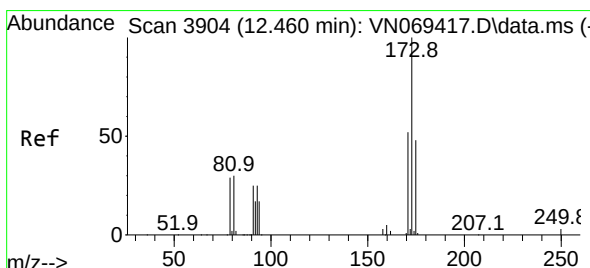
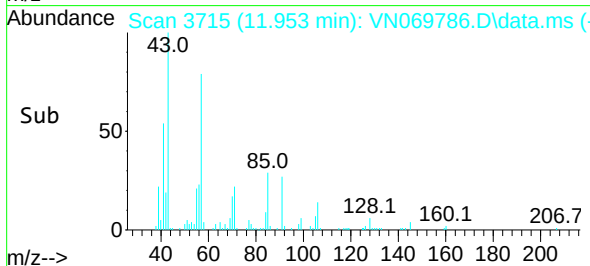
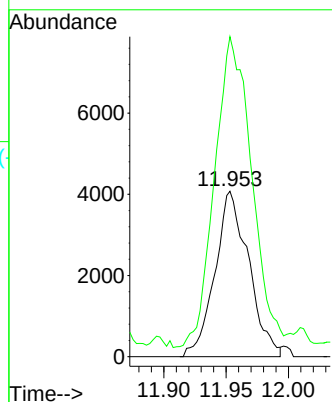
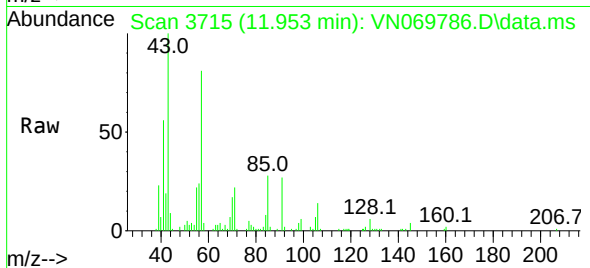




#68
m/p-Xylenes
Concen: 0.241 ug/l
RT: 11.953 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

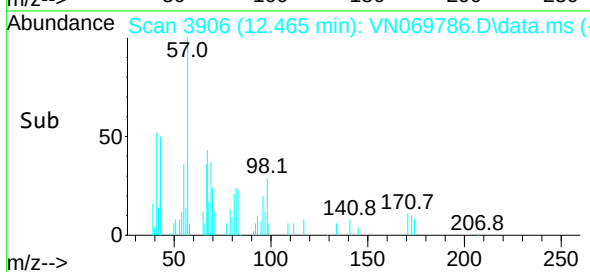
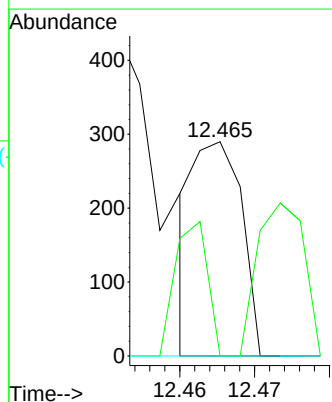
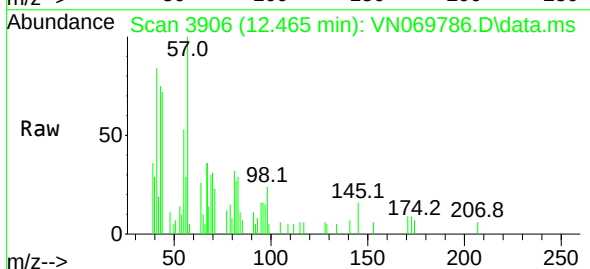
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

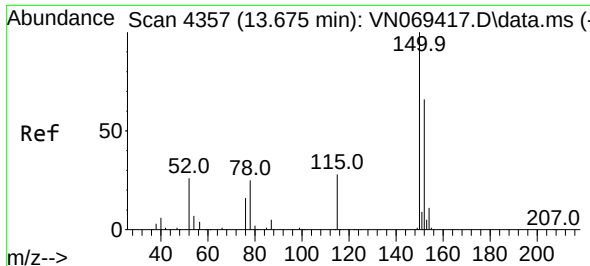
Tgt Ion:106 Resp: 7674
Ion Ratio Lower Upper
106 100
91 205.1 160.6 240.8



#71
Bromoform
Concen: 2.739 ug/l
RT: 12.465 min Scan# 3906
Delta R.T. 0.005 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion:173 Resp: 128
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0

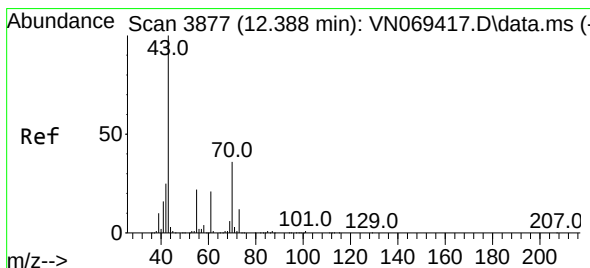
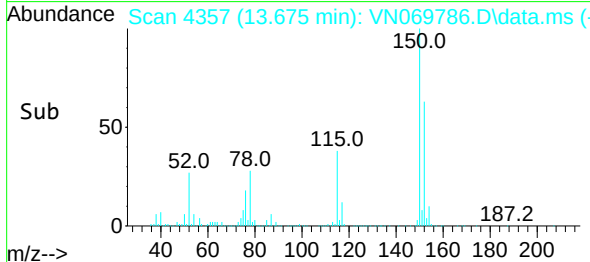
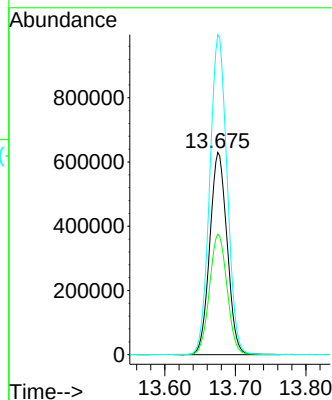
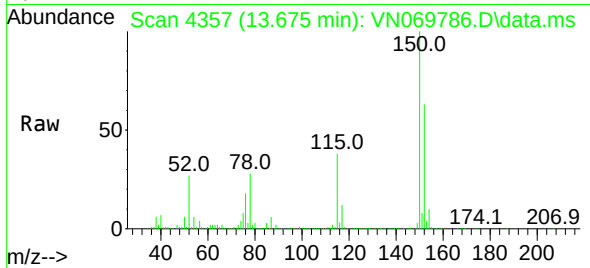




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.002 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

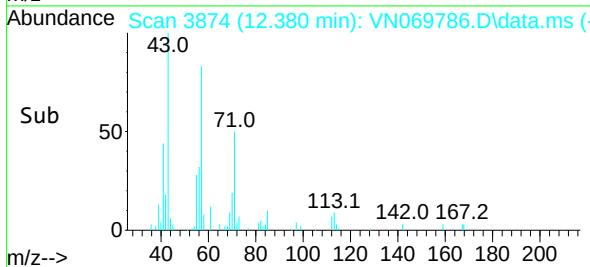
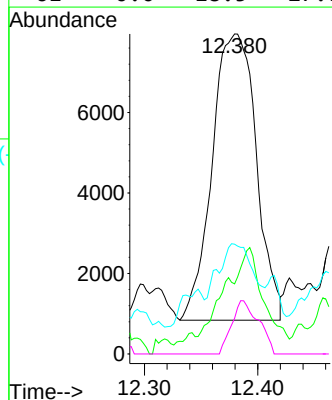
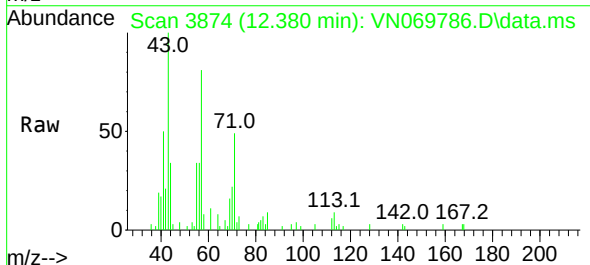
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

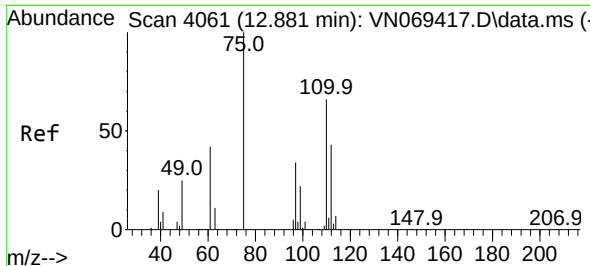
Tgt Ion:152 Resp: 1075441
Ion Ratio Lower Upper
152 100
115 60.0 27.5 82.5
150 157.9 0.0 344.4



#74
N-ethyl acetate
Concen: 0.453 ug/l
RT: 12.380 min Scan# 3874
Delta R.T. -0.008 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 43 Resp: 19184
Ion Ratio Lower Upper
43 100
70 8.8 33.4 50.0#
55 14.4 19.3 28.9#
61 0.0 18.5 27.7#

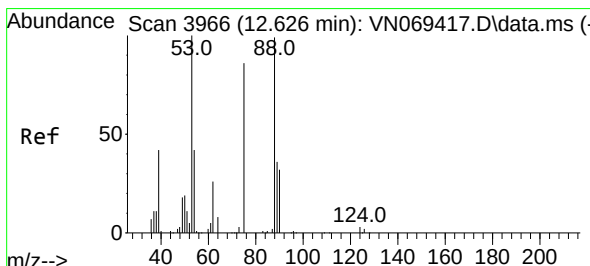
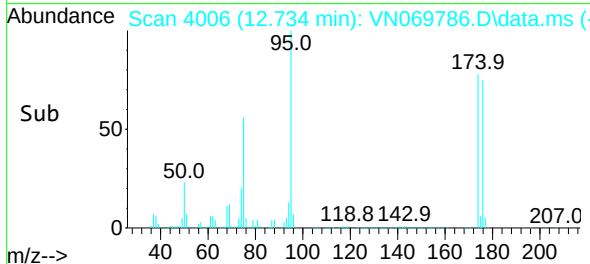
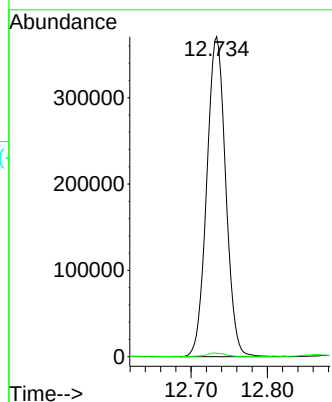
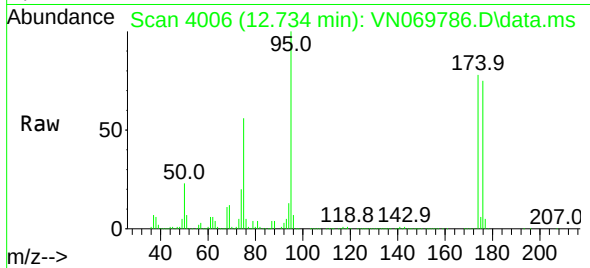




#76
1,2,3-Trichloropropane
Concen: 20.716 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

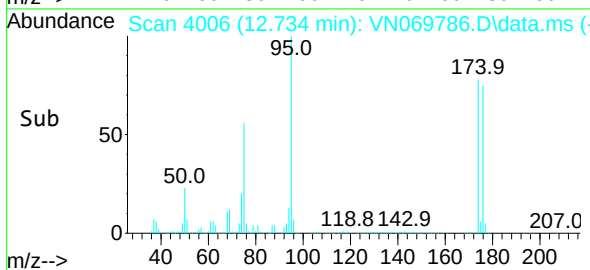
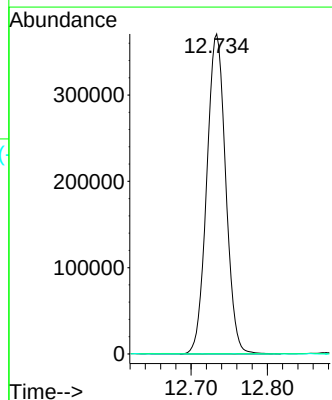
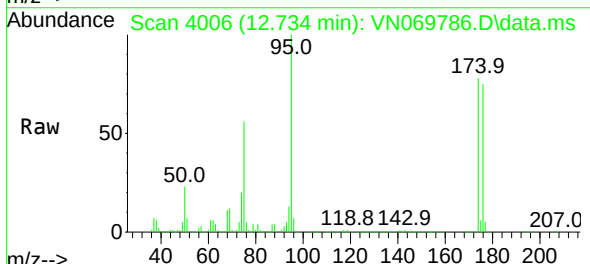
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

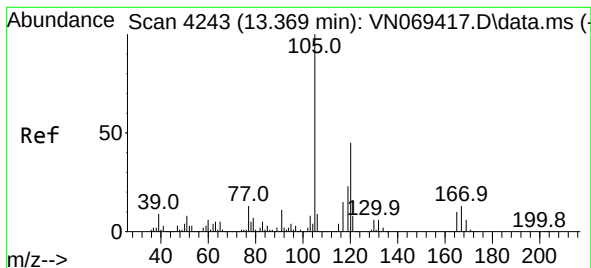
Tgt Ion: 75 Resp: 638911
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.356 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion: 75 Resp: 638911
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.464 ug/l

RT: 13.369 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

Instrument :

MSVOA_N

ClientSampleId :

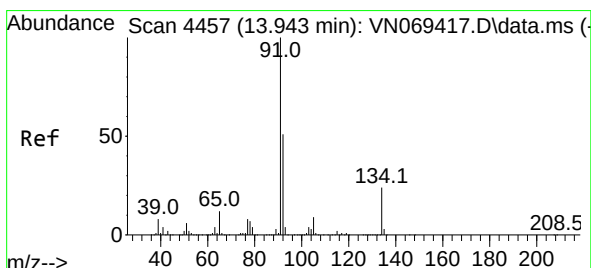
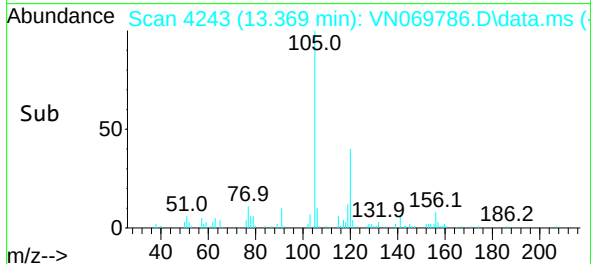
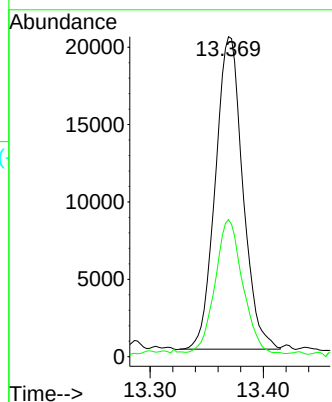
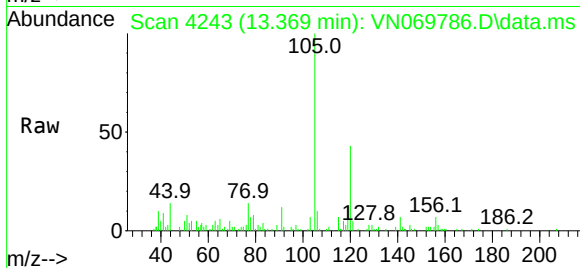
HG-SOIL-PILE

Tgt Ion:105 Resp: 34001

Ion Ratio Lower Upper

105 100

120 43.1 22.8 68.4



#89

n-Butylbenzene

Concen: 0.304 ug/l

RT: 13.946 min Scan# 4458

Delta R.T. 0.003 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

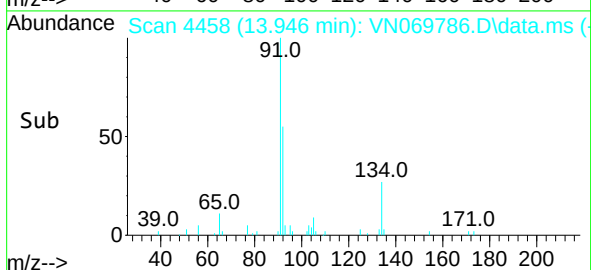
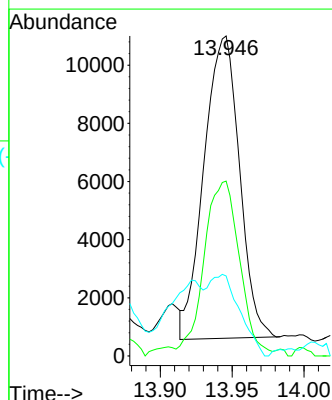
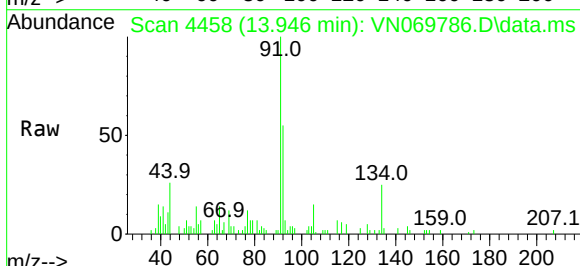
Tgt Ion: 91 Resp: 17854

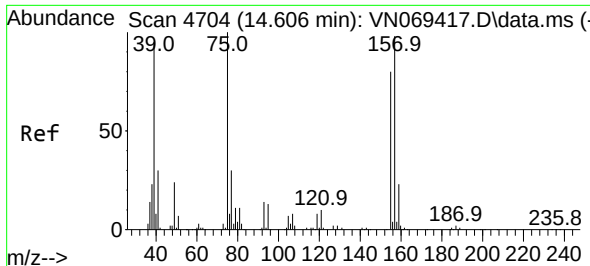
Ion Ratio Lower Upper

91 100

92 55.0 25.4 76.0

134 0.0 13.6 40.8#

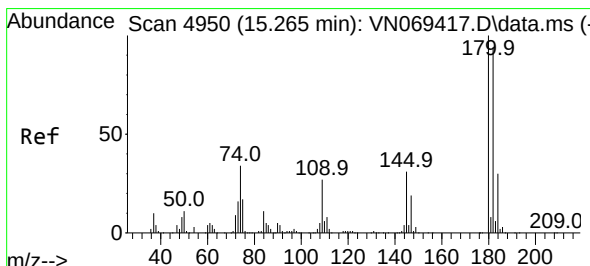
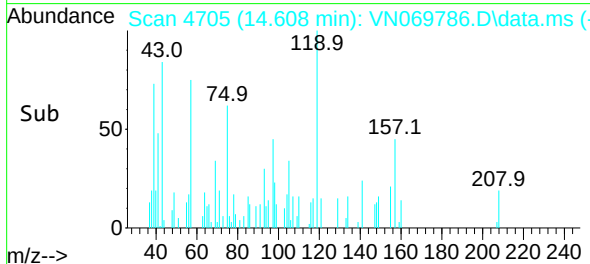
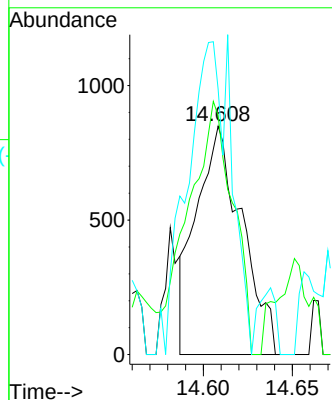
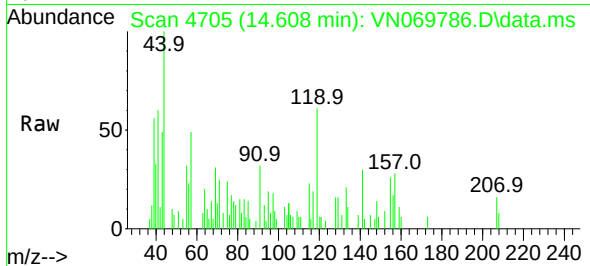




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.254 ug/l
RT: 14.608 min Scan# 4704
Delta R.T. 0.006 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

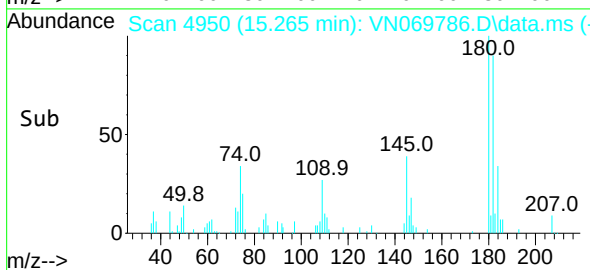
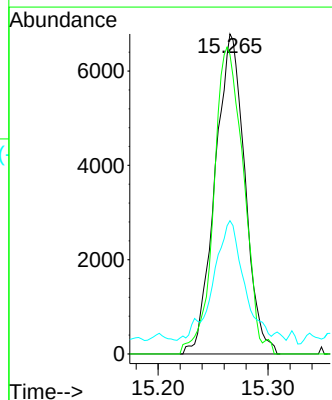
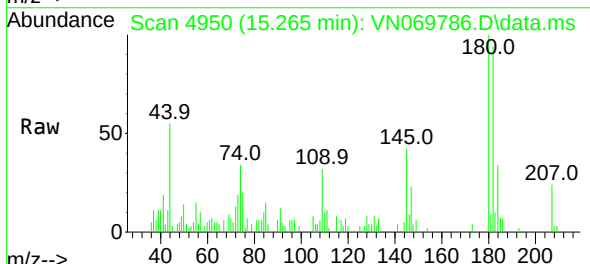
Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

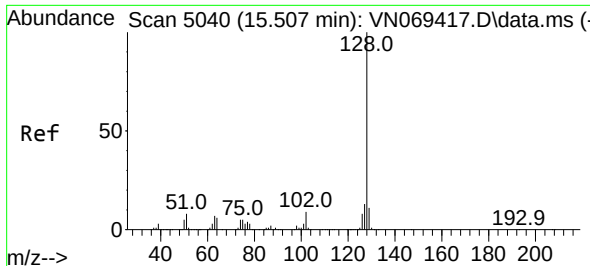
Tgt Ion: 75 Resp: 1516
Ion Ratio Lower Upper
75 100
155 109.2 46.9 140.7
157 133.8 60.6 181.7



#93
1,2,4-Trichlorobenzene
Concen: 3.559 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion:180 Resp: 12760
Ion Ratio Lower Upper
180 100
182 94.9 48.3 144.9
145 38.0 14.5 43.5

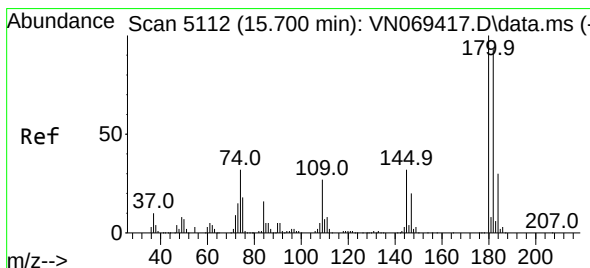
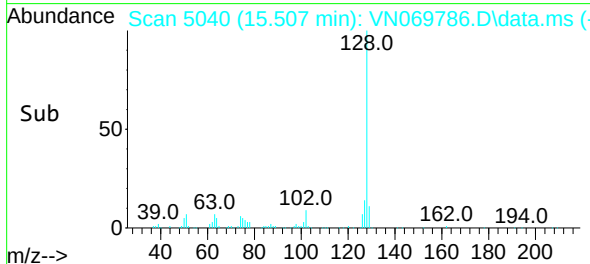
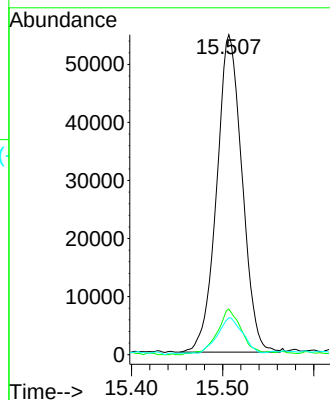
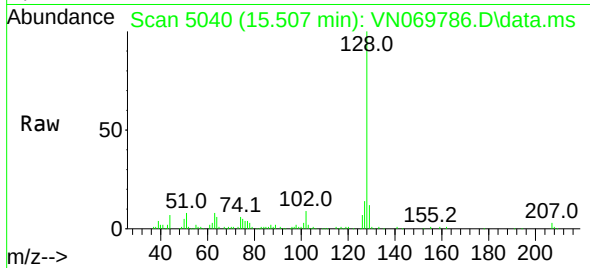




#95
Naphthalene
Concen: 5.837 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Instrument :
MSVOA_N
ClientSampleId :
HG-SOIL-PILE

Tgt Ion:128 Resp: 105757
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.222 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN069786.D
Acq: 6 Dec 2021 16:18

Tgt Ion:180 Resp: 14213
Ion Ratio Lower Upper
180 100
182 100.4 47.4 142.2
145 38.5 15.0 45.1

