

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069848.D
 Acq On : 8 Dec 2021 6:39
 Operator : JC/MD
 Sample : M4953-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 A3718

Quant Time: Dec 08 07:12:49 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

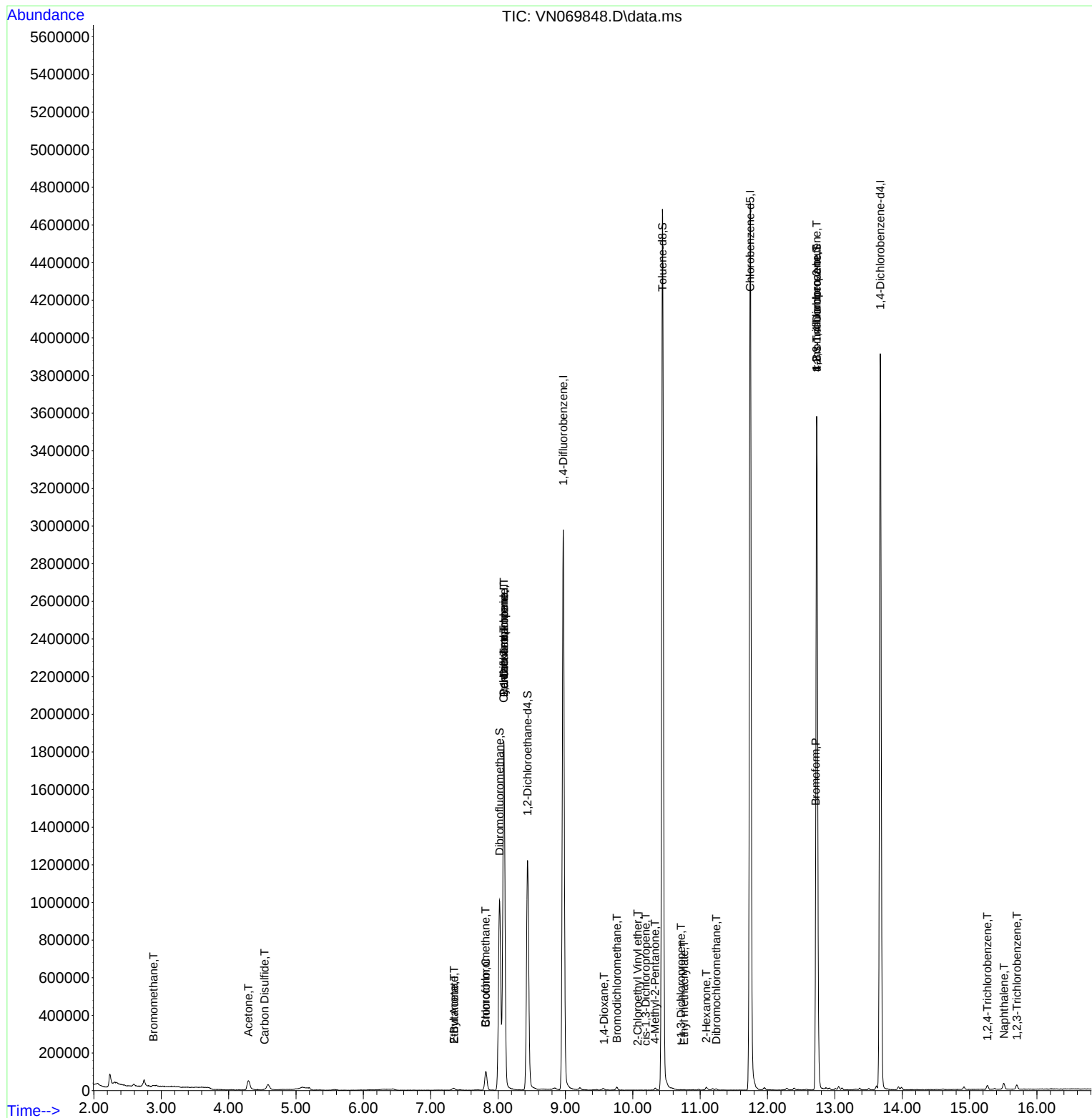
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.086	168	1383304	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2486861	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2685741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1056982	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1071472	50.17	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 100.34%	
35) Dibromofluoromethane	8.021	113	739352	47.46	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 94.92%	
50) Toluene-d8	10.440	98	3221198	51.50	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 103.00%	
62) 4-Bromofluorobenzene	12.731	95	1273160	56.19	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 112.38%	
Target Compounds						Qvalue
5) Bromomethane	2.882	94	4756	0.47	ug/l	97
16) Acetone	4.293	43	93406	7.27	ug/l	94
17) Carbon Disulfide	4.535	76	8691	0.26	ug/l	95
25) 2-Butanone	7.345	43	15077	0.86	ug/l	91
28) Bromochloromethane	7.815	49	9300	0.59	ug/l #	9
30) Chloroform	7.817	83	94564	3.11	ug/l	100
31) Cyclohexane	8.083	56	35212	1.18	ug/l #	22
36) 1,1-Dichloropropene	8.086	75	117976	4.98	ug/l #	50
37) Ethyl Acetate	7.345	43	15077	0.43	ug/l #	68
38) Carbon Tetrachloride	8.086	117	143527	6.18	ug/l #	16
47) Bromodichloromethane	9.764	83	10621	0.44	ug/l	91
49) 1,4-Dioxane	9.574	88	1949	4.46	ug/l #	74
51) 4-Methyl-2-Pentanone	10.328	43	8431	0.25	ug/l	90
53) t-1,3-Dichloropropene	10.717	75	761	2.82	ug/l #	78
54) cis-1,3-Dichloropropene	10.191	75	194	2.00	ug/l #	72
56) Ethyl methacrylate	10.762	69	1061	2.31	ug/l #	80
58) 2-Chloroethyl Vinyl ether	10.070	63	27	18.39	ug/l #	45
59) 2-Hexanone	11.092	43	12118	0.47	ug/l	98
60) Dibromochloromethane	11.240	129	3261	2.54	ug/l	86
71) Bromoform	12.715	173	1266	2.80	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	711726	23.48	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	711726	74.67	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	7219	3.27	ug/l	99
95) Naphthalene	15.509	128	30273	4.52	ug/l	98
96) 1,2,3-Trichlorobenzene	15.702	180	8554	2.92	ug/l	89

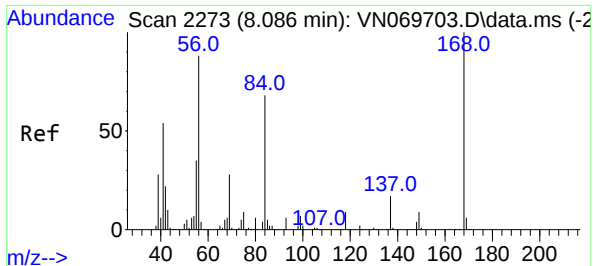
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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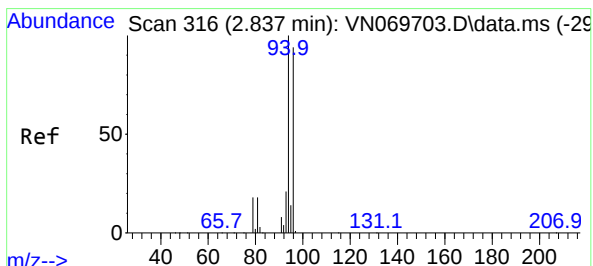
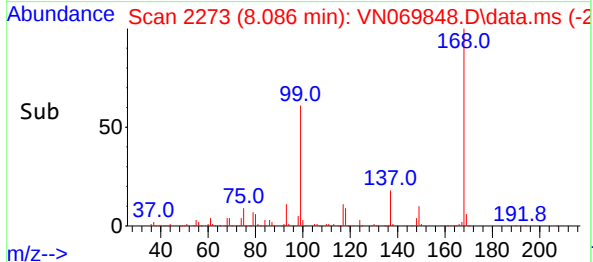
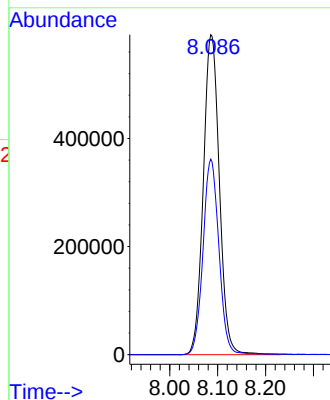
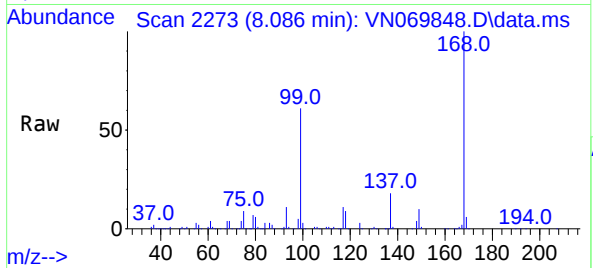




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

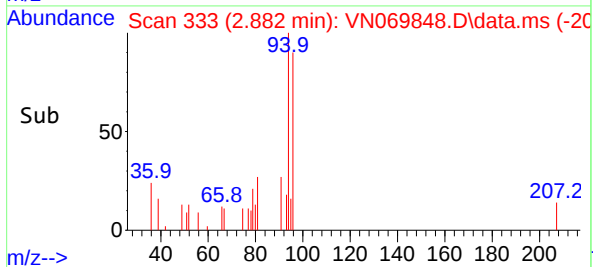
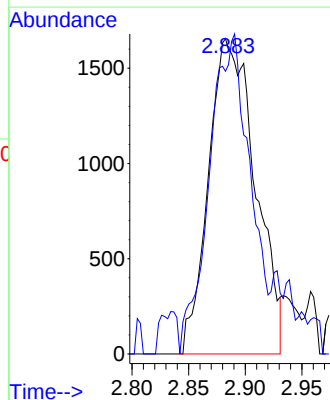
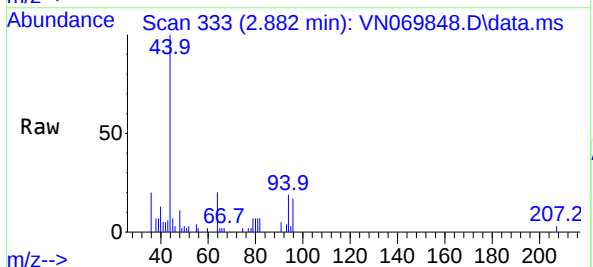
Instrument :
MSVOA_N
ClientSampleId :
A3718

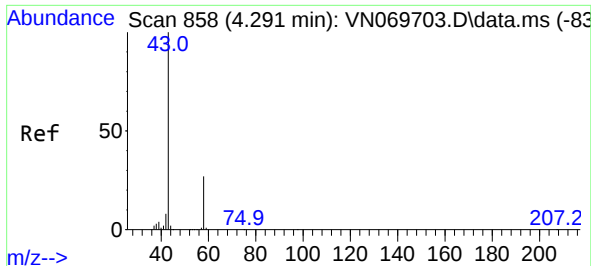
Tgt Ion:168 Resp: 1383304
Ion Ratio Lower Upper
168 100
99 61.1 41.3 61.9



#5
Bromomethane
Concen: 0.47 ug/l
RT: 2.882 min Scan# 333
Delta R.T. 0.046 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 94 Resp: 4756
Ion Ratio Lower Upper
94 100
96 89.6 73.8 110.8

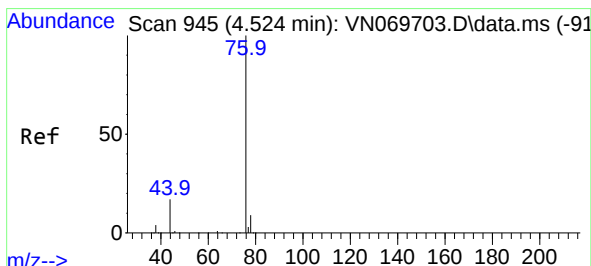
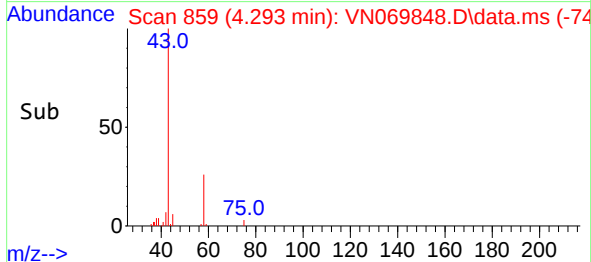
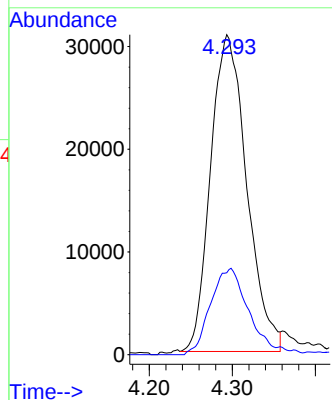
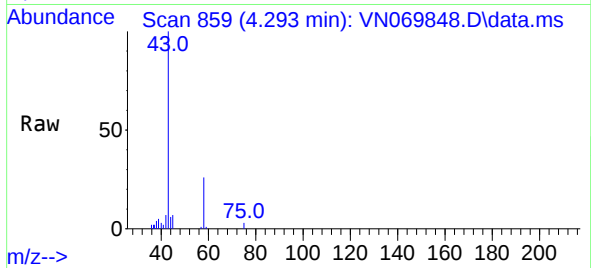




#16
Acetone
Concen: 7.27 ug/l
RT: 4.293 min Scan# 81
Delta R.T. 0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

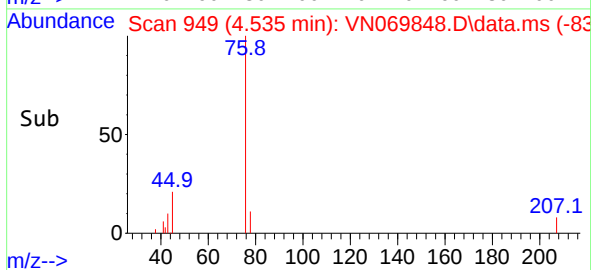
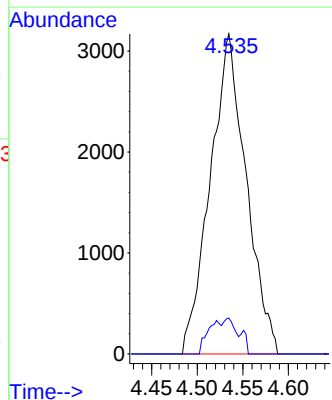
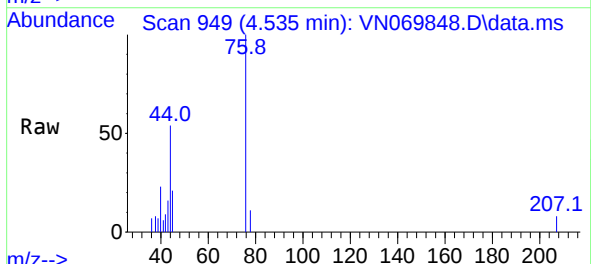
Instrument :
MSVOA_N
ClientSampleId :
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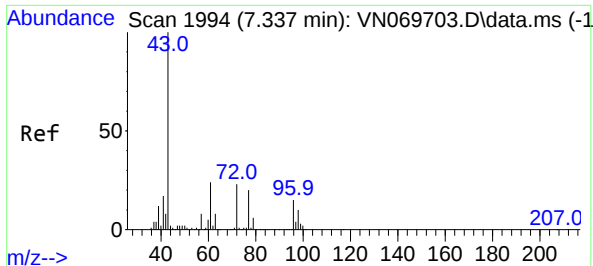
Tgt Ion: 43 Resp: 93406
Ion Ratio Lower Upper
43 100
58 25.9 23.1 34.7



#17
Carbon Disulfide
Concen: 0.26 ug/l
RT: 4.535 min Scan# 949
Delta R.T. 0.011 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 76 Resp: 8691
Ion Ratio Lower Upper
76 100
78 11.2 7.5 11.3

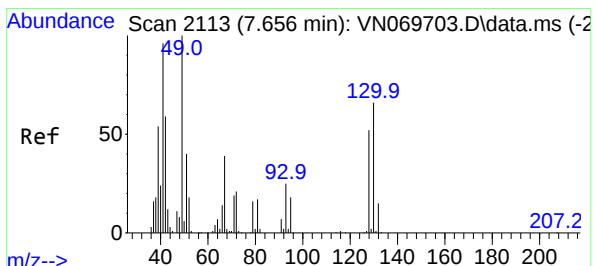
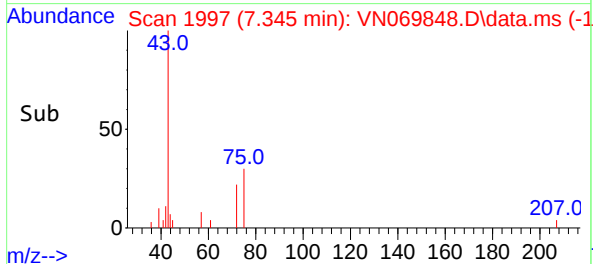
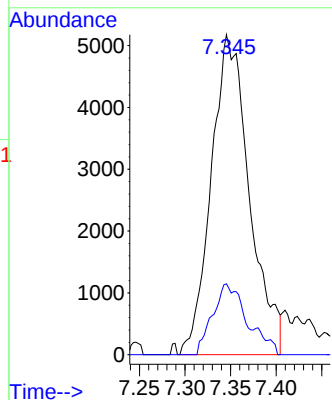
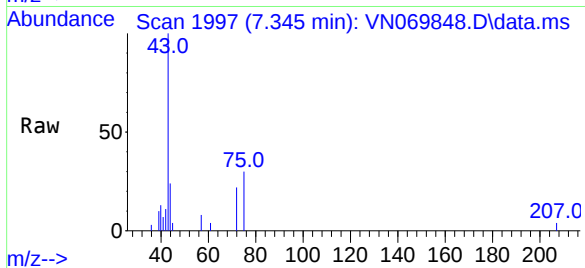




#25
2-Butanone
Concen: 0.86 ug/l
RT: 7.345 min Scan# 1994
Delta R.T. 0.008 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

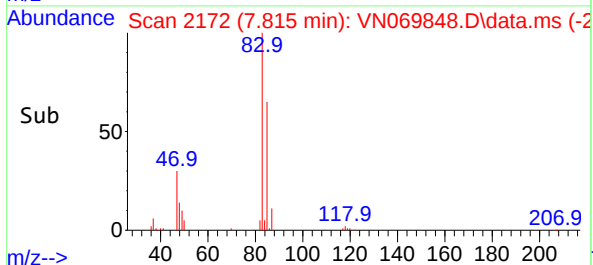
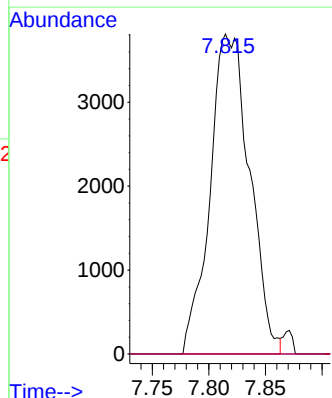
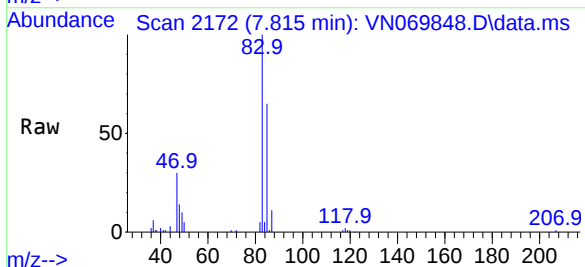
Instrument :
MSVOA_N
ClientSampleId :
A3718

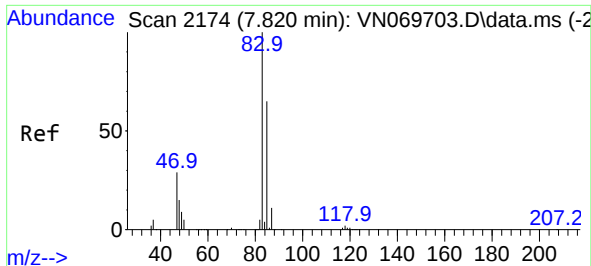
Tgt Ion: 43 Resp: 15077
Ion Ratio Lower Upper
43 100
72 22.2 21.7 32.5



#28
Bromochloromethane
Concen: 0.59 ug/l
RT: 7.815 min Scan# 2172
Delta R.T. 0.158 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 49 Resp: 9300
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 67.8 101.8

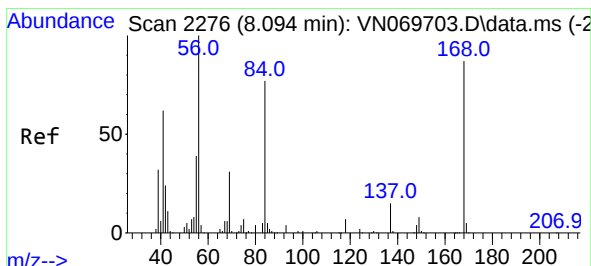
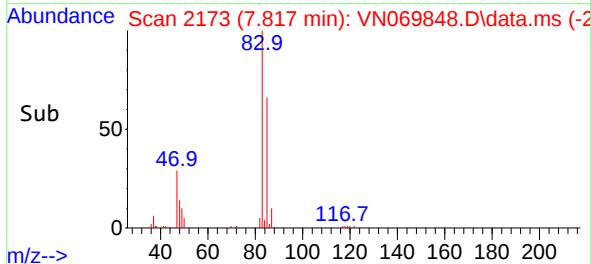
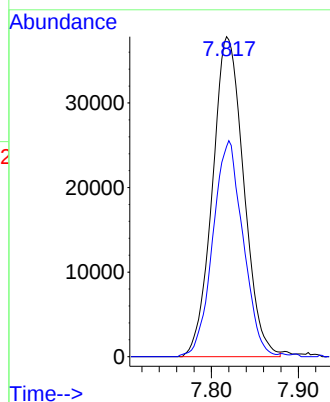
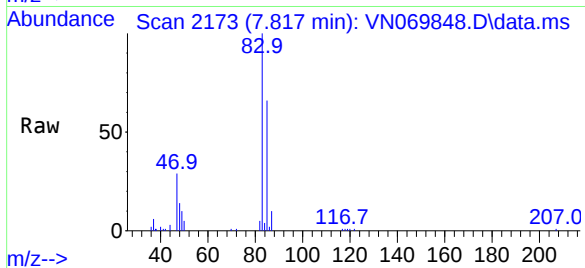




#30
Chloroform
Concen: 3.11 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

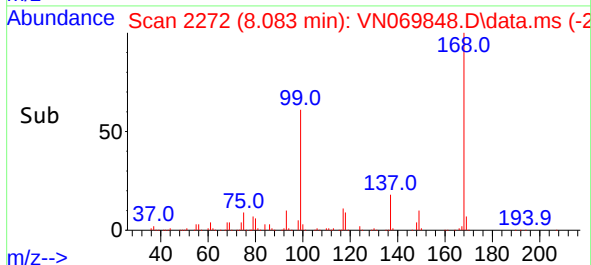
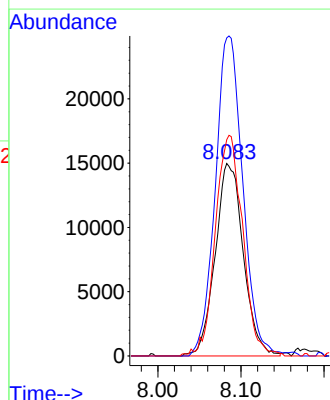
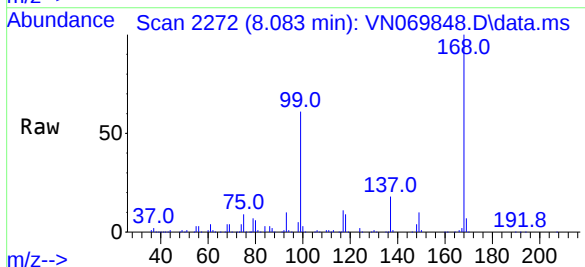
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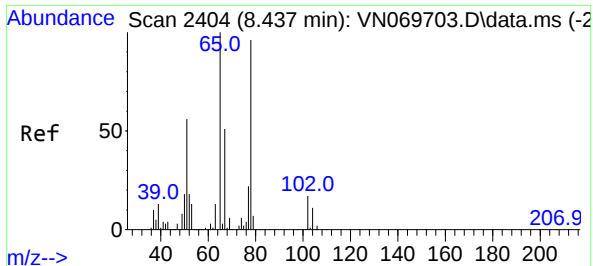
Tgt Ion: 83 Resp: 94564
Ion Ratio Lower Upper
83 100
85 65.2 51.9 77.9



#31
Cyclohexane
Concen: 1.18 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 56 Resp: 35212
Ion Ratio Lower Upper
56 100
69 165.2 27.1 40.7#
84 112.3 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 50.17 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. 0.000 min

Lab File: VN069848.D

Acq: 8 Dec 2021 6:39

Instrument :

MSVOA_N

ClientSampleId :

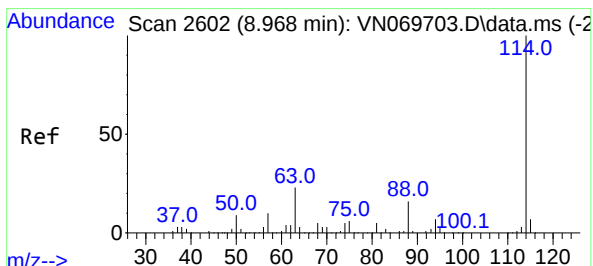
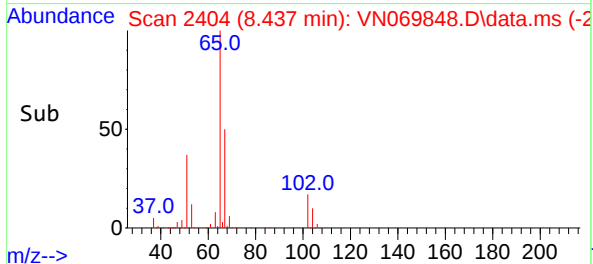
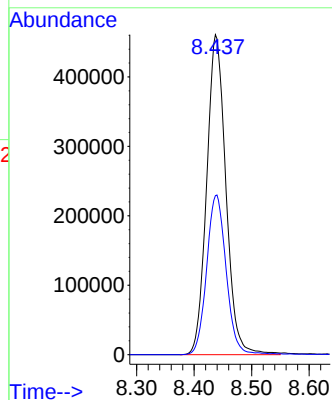
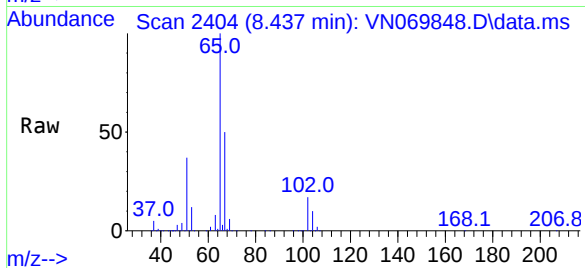
A3718

Tgt Ion: 65 Resp: 1071472

Ion Ratio Lower Upper

65 100

67 50.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069848.D

Acq: 8 Dec 2021 6:39

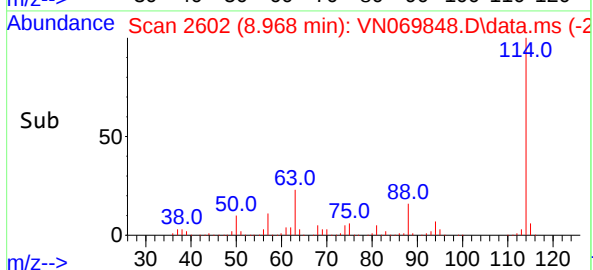
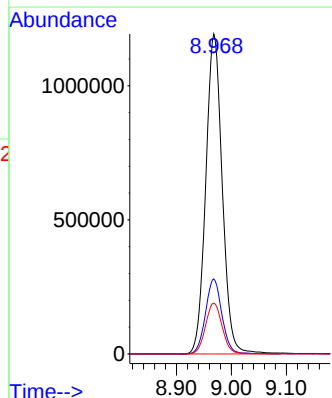
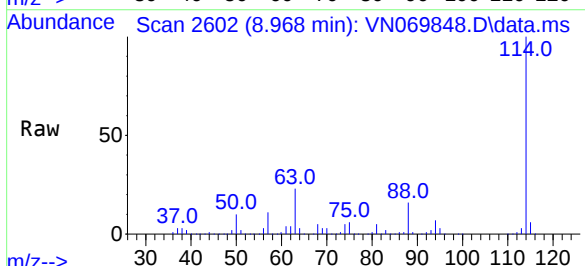
Tgt Ion: 114 Resp: 2486861

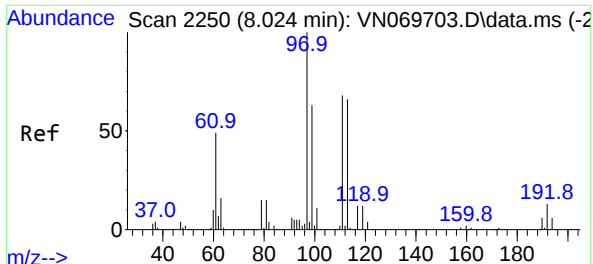
Ion Ratio Lower Upper

114 100

63 23.4 0.0 37.8

88 15.9 0.0 27.4

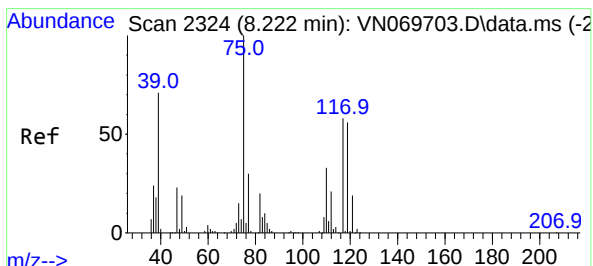
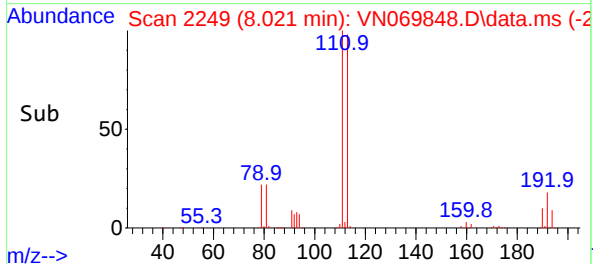
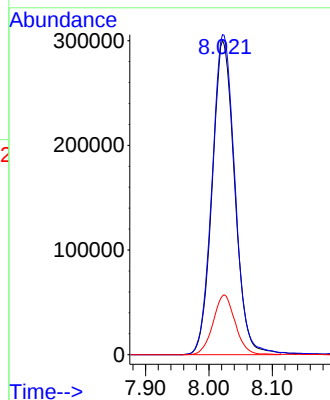
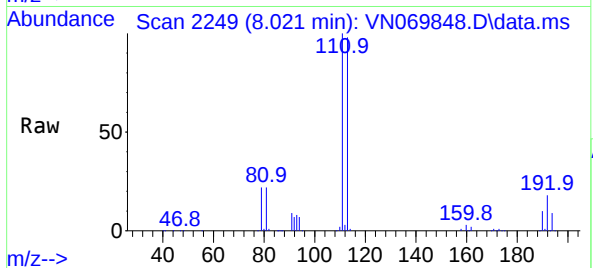




#35
Dibromofluoromethane
Concen: 47.46 ug/l
RT: 8.021 min Scan# 21
Delta R.T. -0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

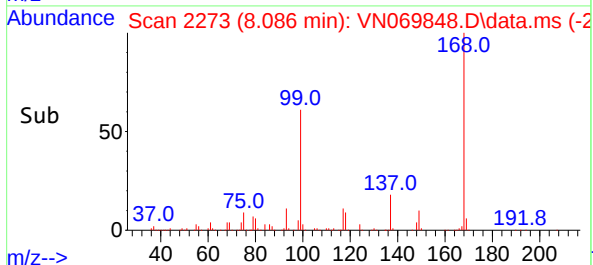
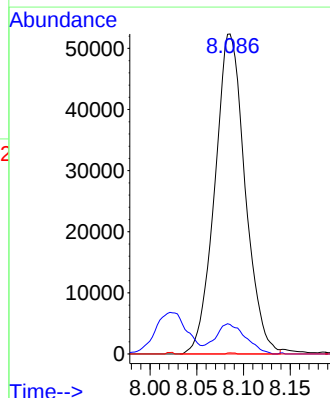
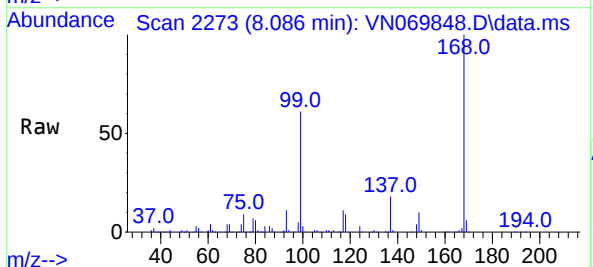
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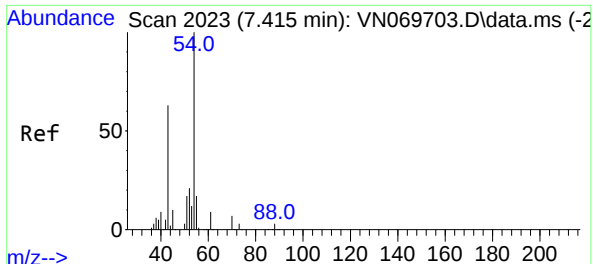
Tgt Ion:113 Resp: 739352
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.98 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 75 Resp: 117976
Ion Ratio Lower Upper
75 100
110 9.5 18.4 55.2#
77 0.1 24.4 36.6#

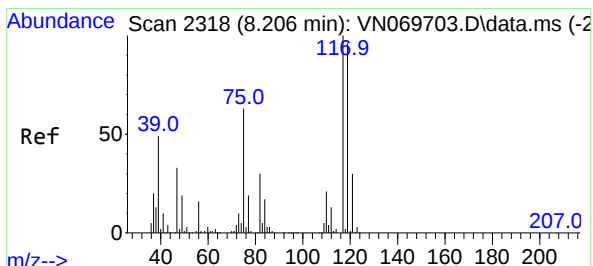
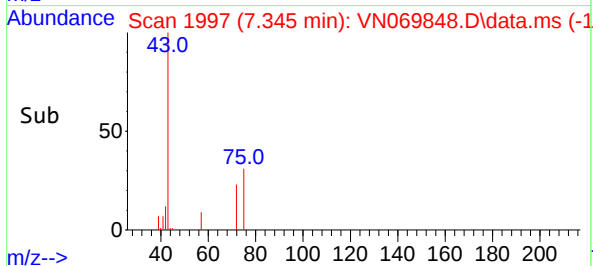
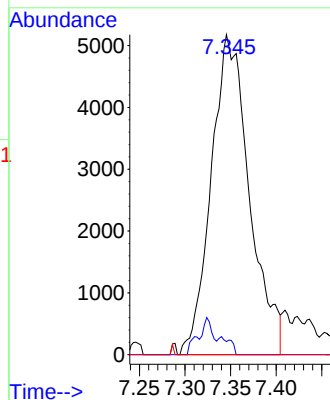
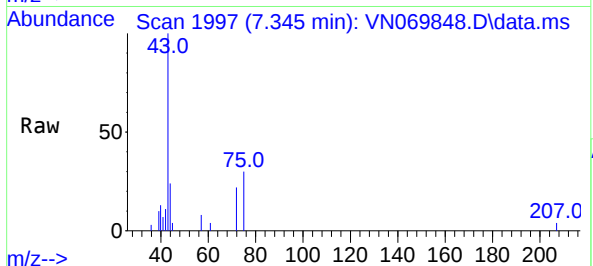




#37
Ethyl Acetate
Concen: 0.43 ug/l
RT: 7.345 min Scan# 11
Delta R.T. -0.070 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

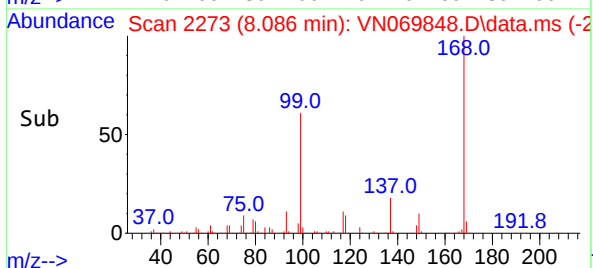
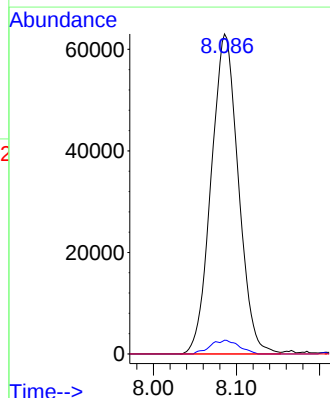
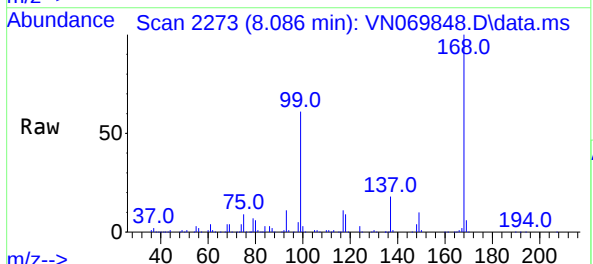
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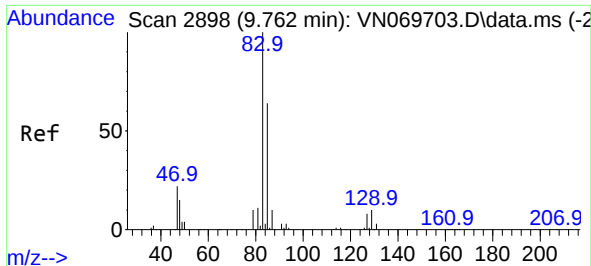
Tgt Ion: 43 Resp: 15077
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.18 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.121 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 117 Resp: 143527
Ion Ratio Lower Upper
117 100
119 4.3 76.1 114.1#
121 0.0 24.2 36.2#

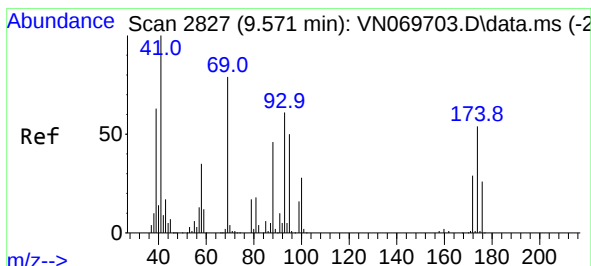
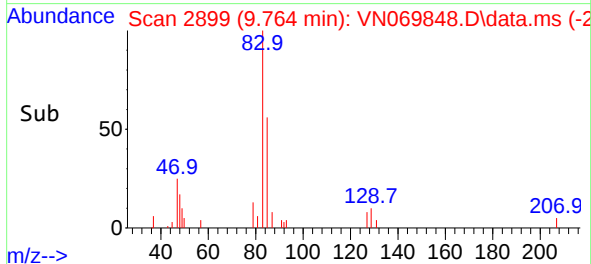
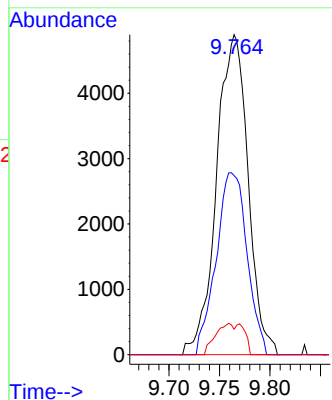
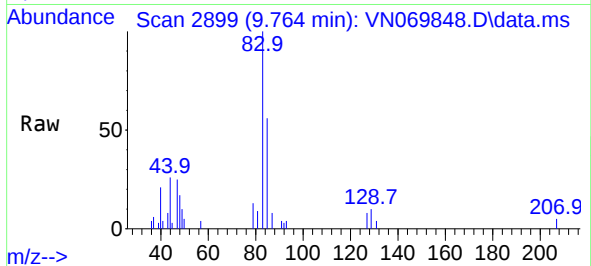




#47
Bromodichloromethane
Concen: 0.44 ug/l
RT: 9.764 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

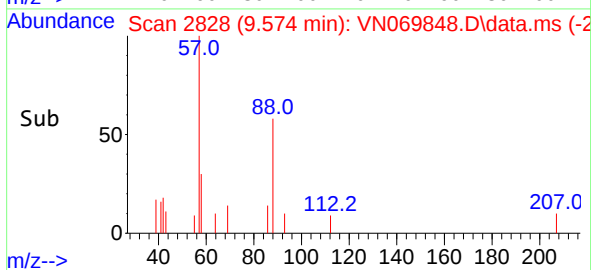
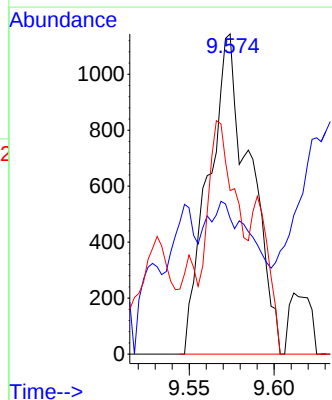
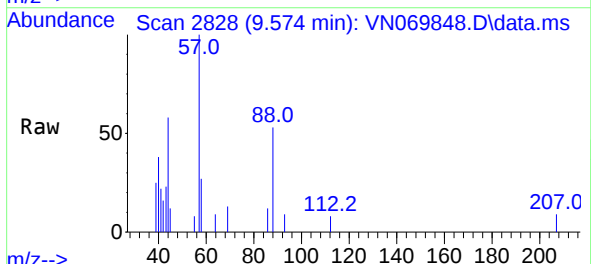
Instrument :
MSVOA_N
ClientSampleId :
A3718

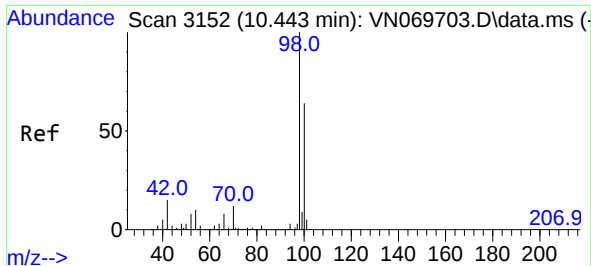
Tgt Ion: 83 Resp: 10621
Ion Ratio Lower Upper
83 100
85 56.0 50.9 76.3
127 7.9 7.1 10.7



#49
1,4-Dioxane
Concen: 4.46 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 88 Resp: 1949
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 52.9 50.6 75.8

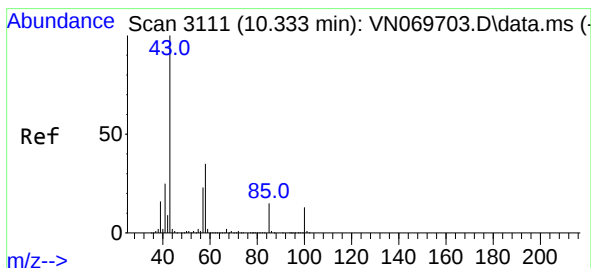
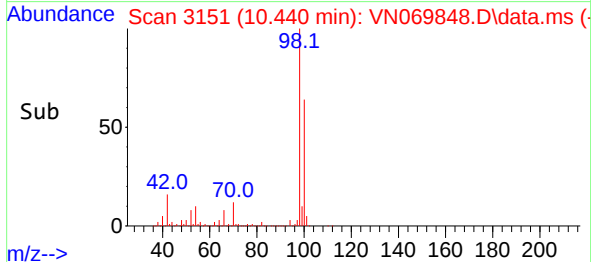
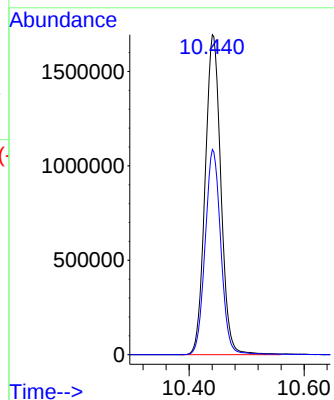
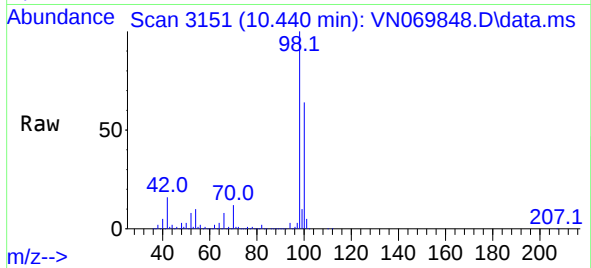




#50
Toluene-d8
Concen: 51.50 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

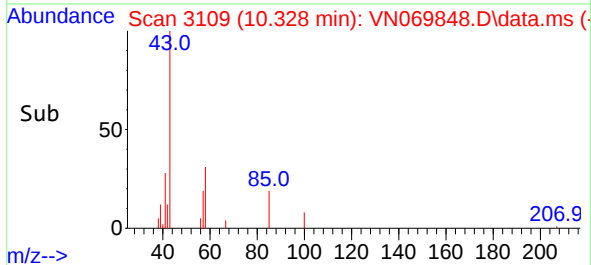
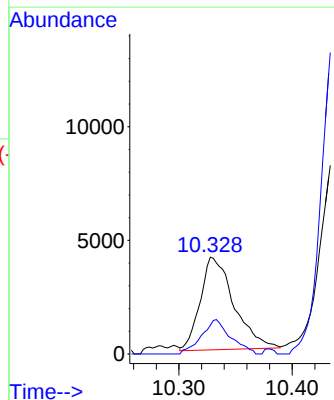
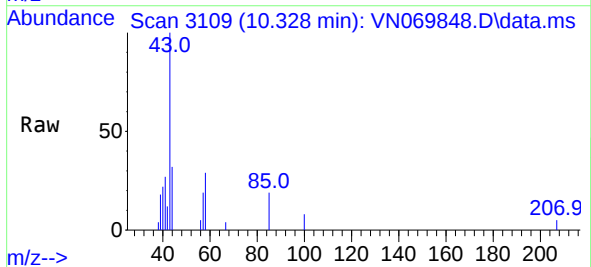
Instrument :
MSVOA_N
ClientSampleId :
A3718

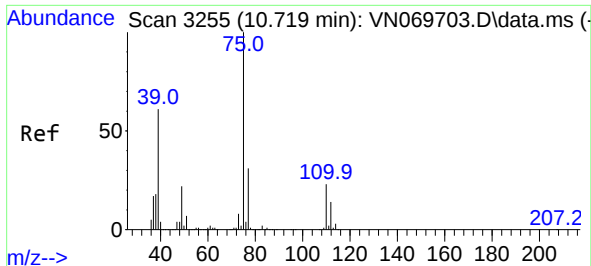
Tgt Ion: 98 Resp: 3221198
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 10.328 min Scan# 3109
Delta R.T. -0.005 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 43 Resp: 8431
Ion Ratio Lower Upper
43 100
58 31.8 30.4 45.6

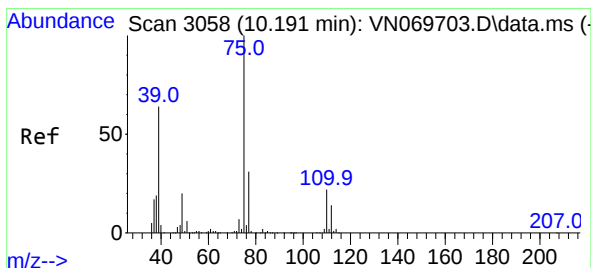
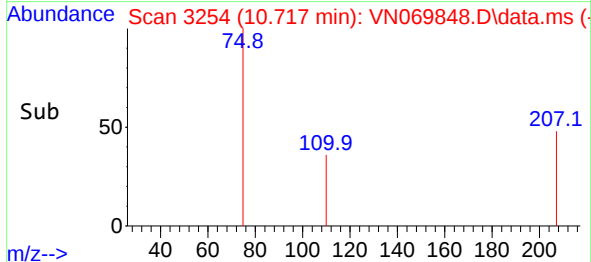
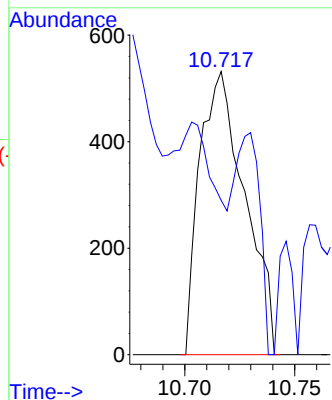
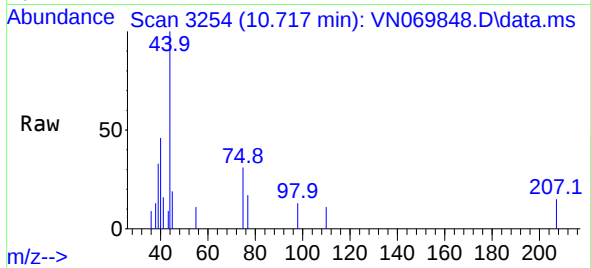




#53
t-1,3-Dichloropropene
Concen: 2.82 ug/l
RT: 10.717 min Scan# 31
Delta R.T. -0.002 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

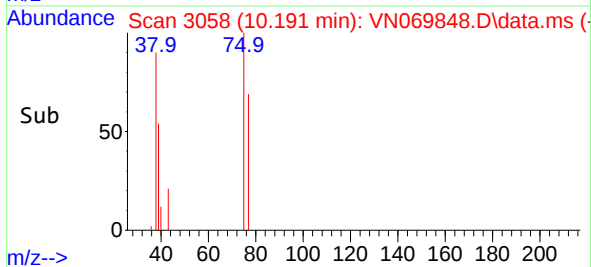
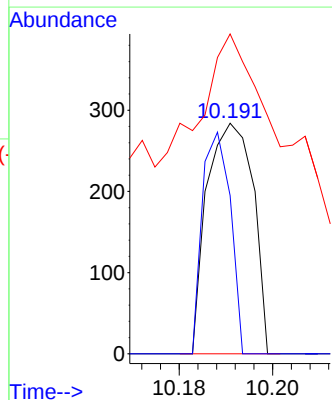
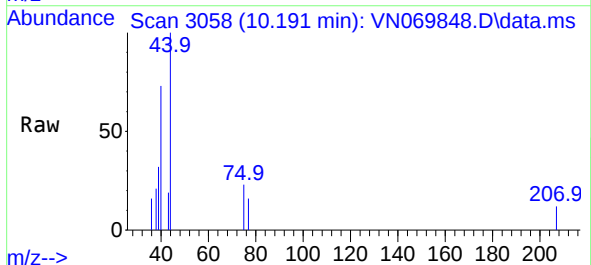
Instrument :
MSVOA_N
ClientSampleId :
A3718

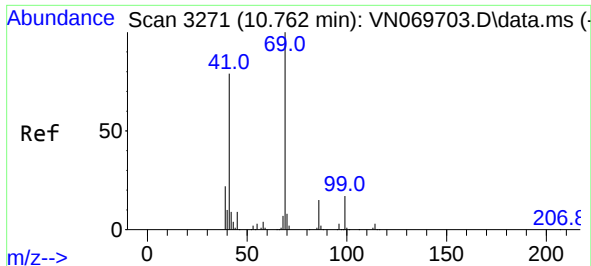
Tgt Ion: 75 Resp: 761
Ion Ratio Lower Upper
75 100
77 19.7 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.00 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. -0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 75 Resp: 194
Ion Ratio Lower Upper
75 100
77 68.7 26.4 39.6#
39 48.9 42.5 63.7

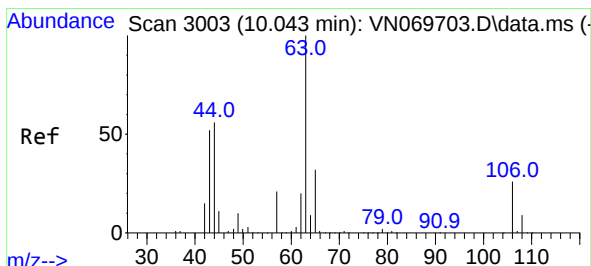
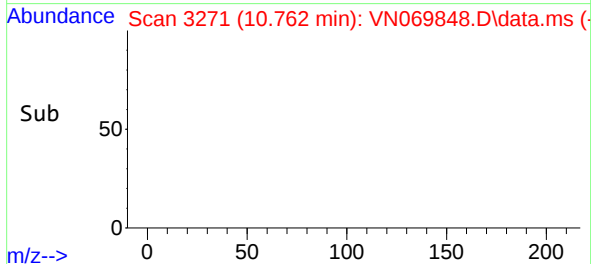
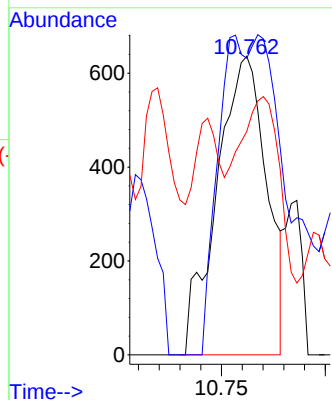
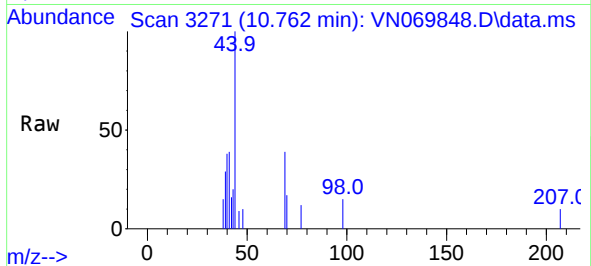




#56
Ethyl methacrylate
Concen: 2.31 ug/l
RT: 10.762 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

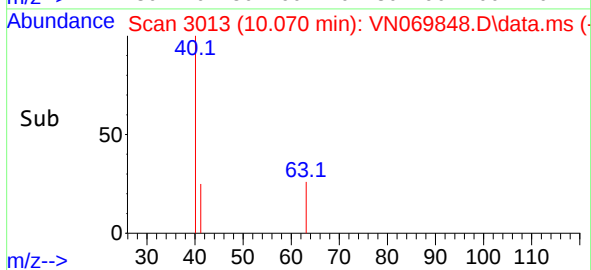
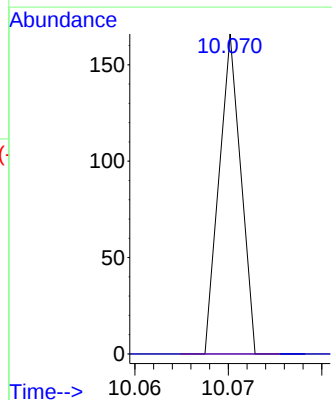
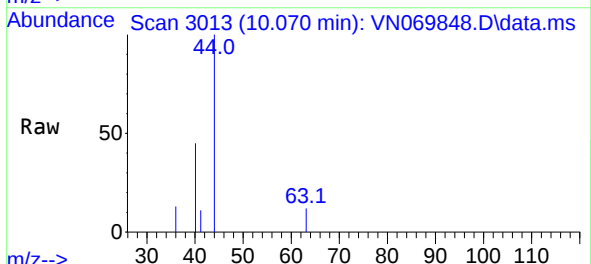
Instrument :
MSVOA_N
ClientSampleId :
A3718

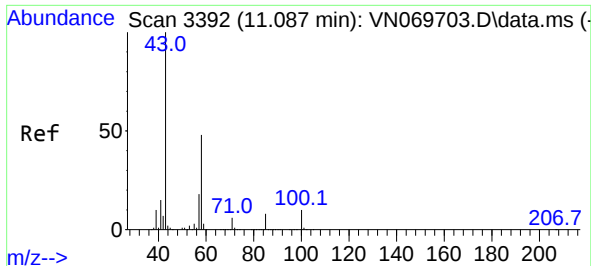
Tgt Ion: 69 Resp: 1061
Ion Ratio Lower Upper
69 100
41 63.1 51.4 77.0
39 12.2 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.39 ug/l
RT: 10.070 min Scan# 3013
Delta R.T. 0.027 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 63 Resp: 27
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

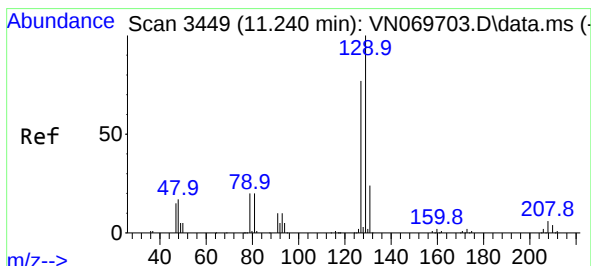
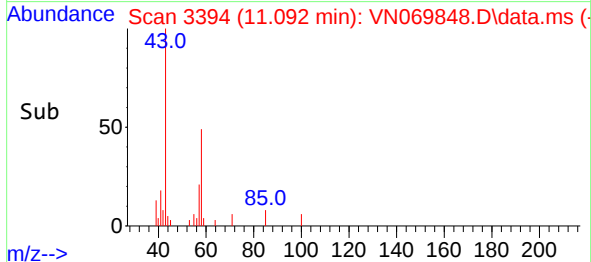
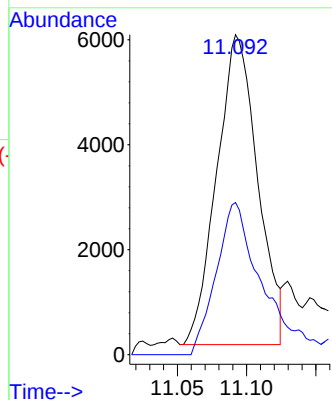
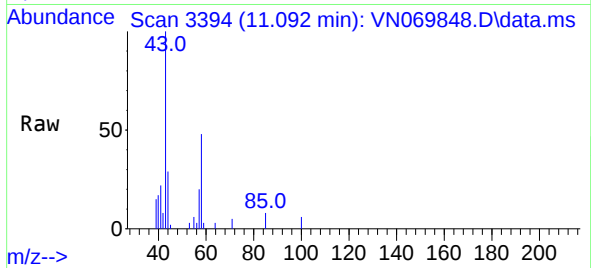




#59
2-Hexanone
Concen: 0.47 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

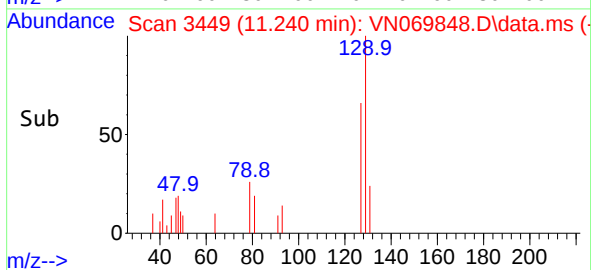
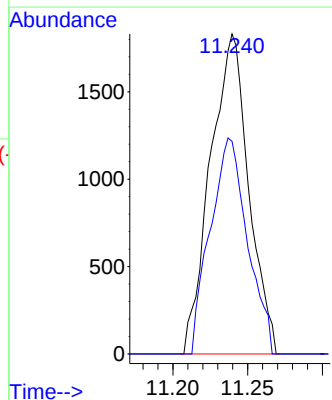
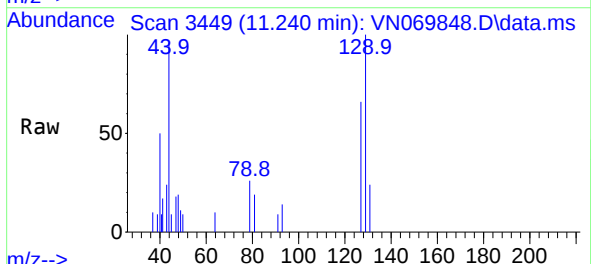
Instrument :
MSVOA_N
ClientSampleId :
A3718

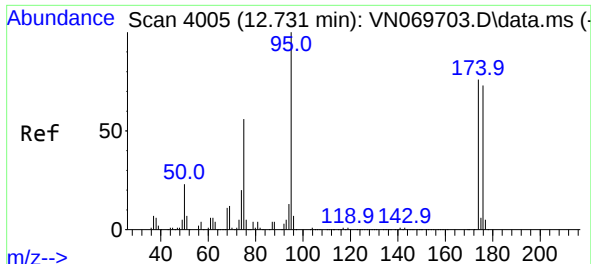
Tgt Ion: 43 Resp: 12118
Ion Ratio Lower Upper
43 100
58 55.1 26.9 80.7



#60
Dibromochloromethane
Concen: 2.54 ug/l
RT: 11.240 min Scan# 3449
Delta R.T. -0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 129 Resp: 3261
Ion Ratio Lower Upper
129 100
127 65.5 38.6 116.0

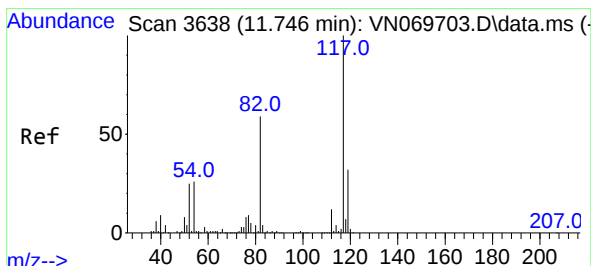
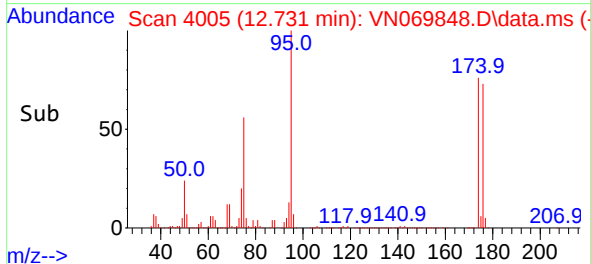
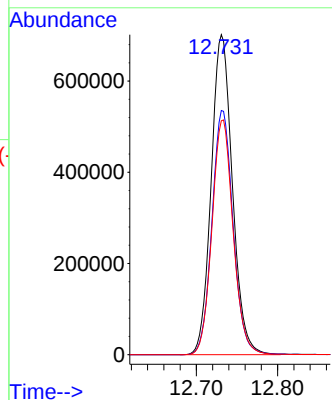
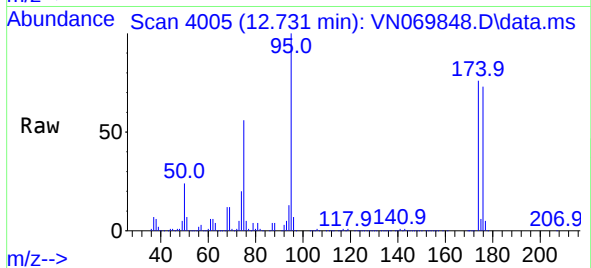




#62
4-Bromofluorobenzene
Concen: 56.19 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

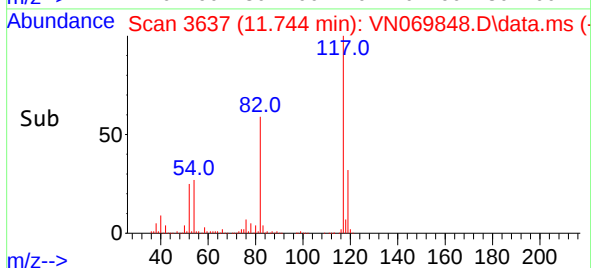
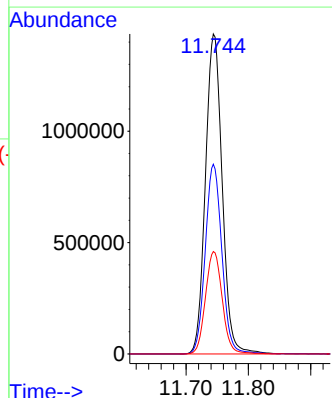
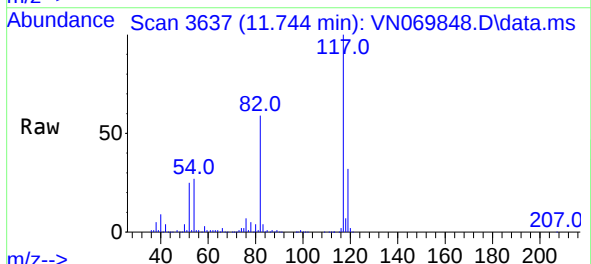
Instrument :
MSVOA_N
ClientSampleId :
A3718

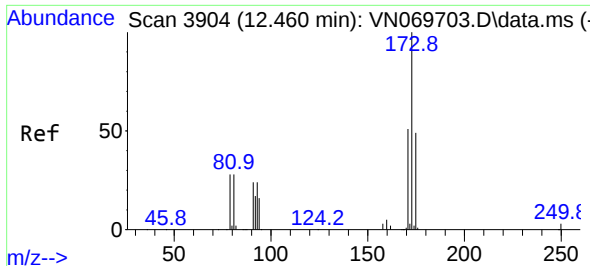
Tgt Ion: 95 Resp: 1273160
Ion Ratio Lower Upper
95 100
174 76.0 0.0 187.2
176 73.2 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion: 117 Resp: 2685741
Ion Ratio Lower Upper
117 100
82 59.3 42.4 63.6
119 32.0 25.4 38.2

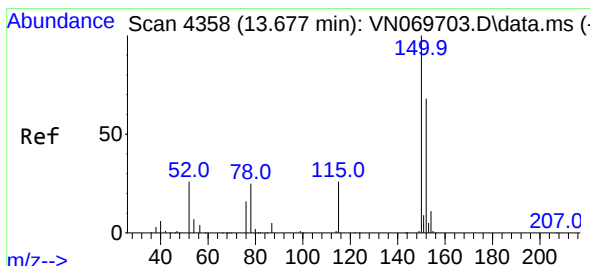
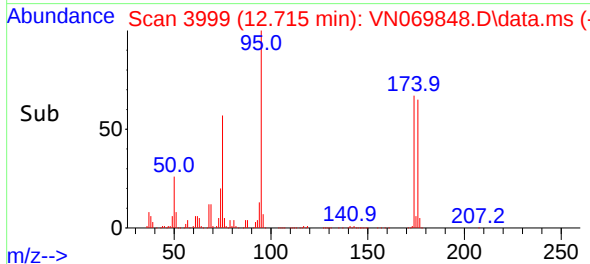
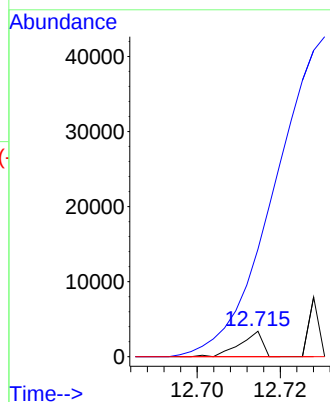
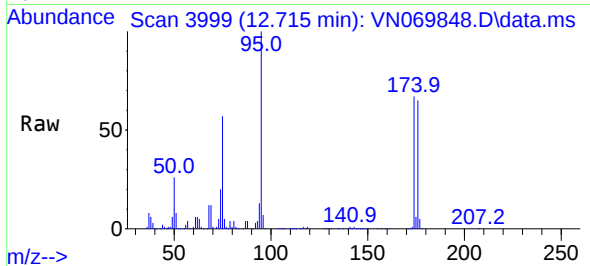




#71
Bromoform
Concen: 2.80 ug/l
RT: 12.715 min Scan# 3904
Delta R.T. 0.255 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

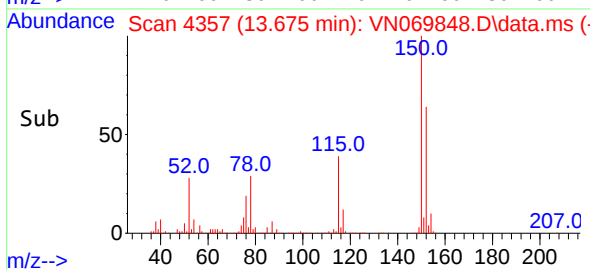
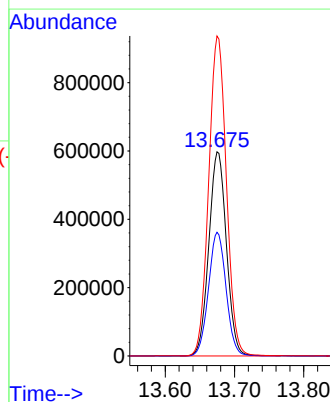
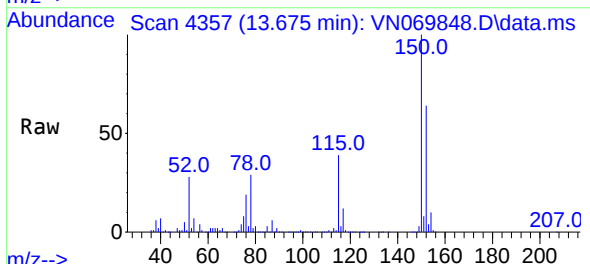
Instrument :
MSVOA_N
ClientSampleId :
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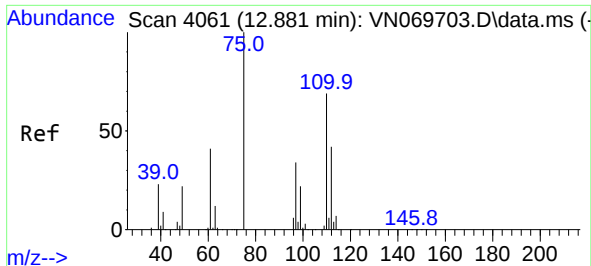
Tgt Ion:173 Resp: 1266
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

Tgt Ion:152 Resp: 1056982
Ion Ratio Lower Upper
152 100
115 60.3 27.5 82.5
150 157.1 0.0 344.4

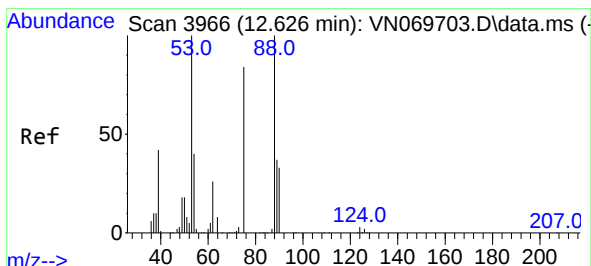
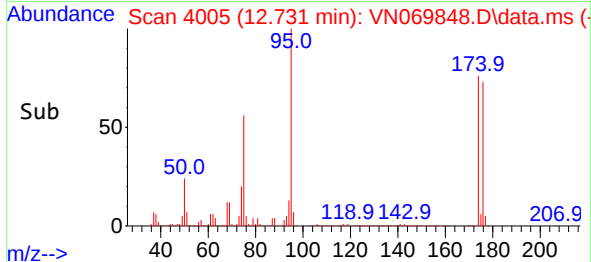
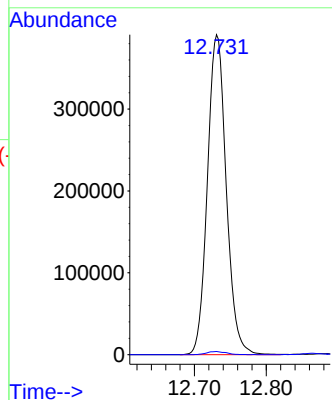
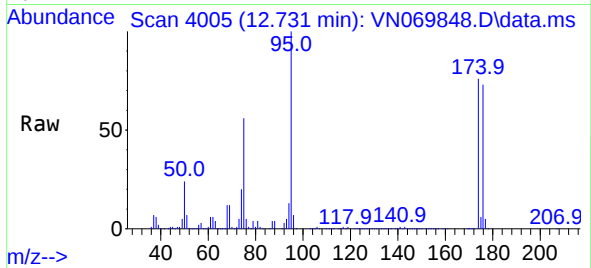




#76
1,2,3-Trichloropropane
Concen: 23.48 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

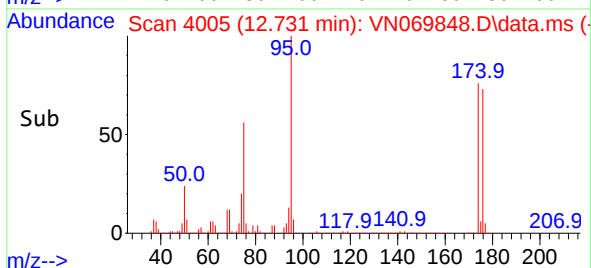
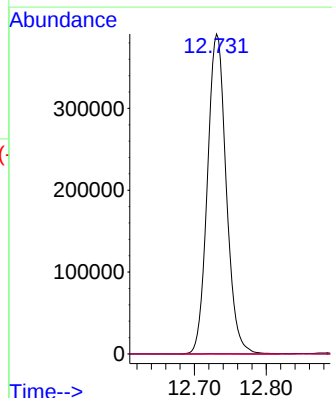
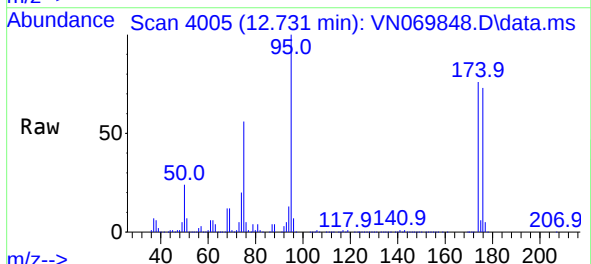
Instrument :
MSVOA_N
ClientSampleId :
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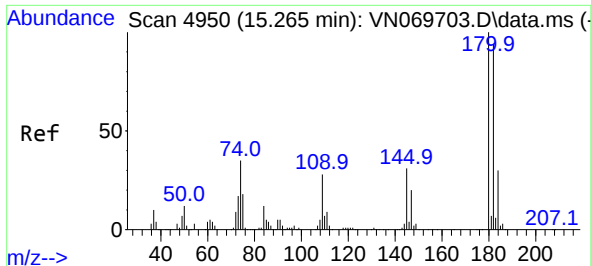
Tgt Ion: 75 Resp: 711726
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.67 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

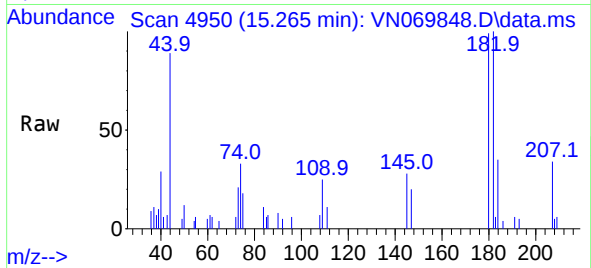
Tgt Ion: 75 Resp: 711726
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



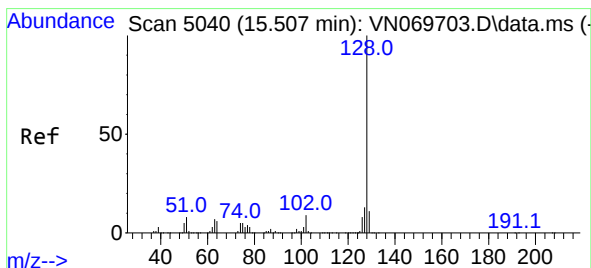
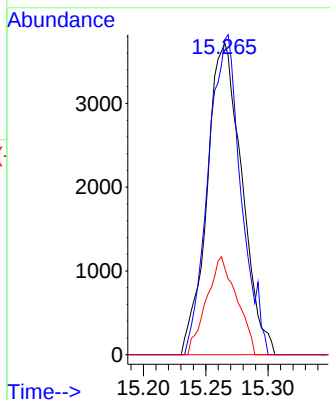
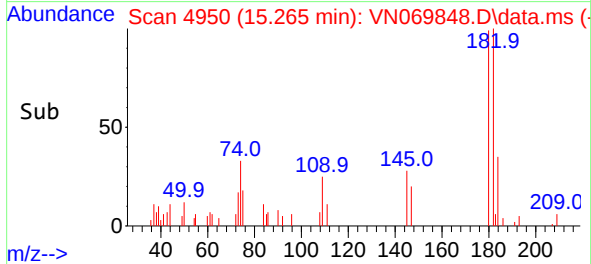


#93
1,2,4-Trichlorobenzene
Concen: 3.27 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39

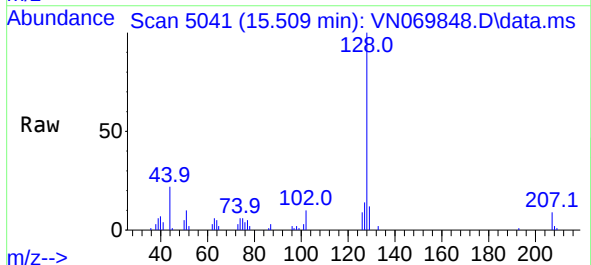
Instrument :
MSVOA_N
ClientSampleId :
A3718



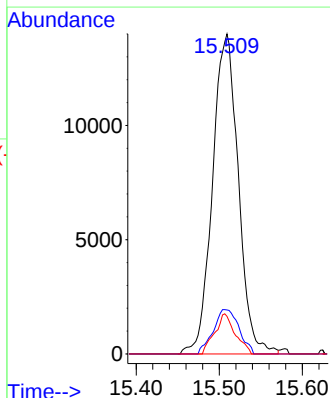
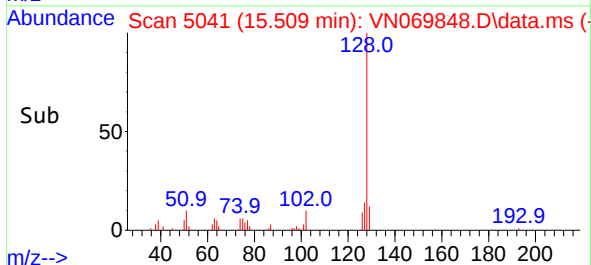
Tgt Ion:180 Resp: 7219
Ion Ratio Lower Upper
180 100
182 96.7 48.3 144.9
145 27.3 14.5 43.5

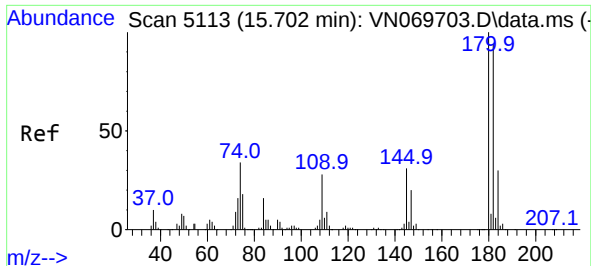


#95
Naphthalene
Concen: 4.52 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069848.D
Acq: 8 Dec 2021 6:39



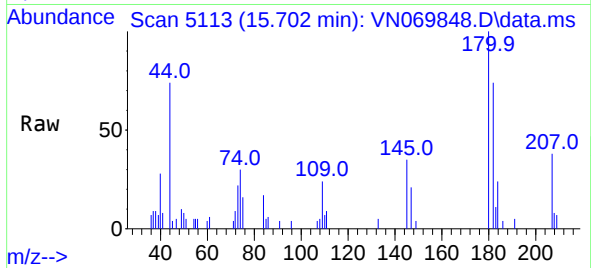
Tgt Ion:128 Resp: 30273
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 9.9 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.92 ug/l
 RT: 15.702 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN069848.D
 Acq: 8 Dec 2021 6:39

Instrument :
 MSVOA_N
 ClientSampleId :
 A3718



Tgt Ion:180 Resp: 8554
 Ion Ratio Lower Upper
 180 100
 182 84.7 47.4 142.2
 145 35.9 15.0 45.1

