

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069841.D
 Acq On : 8 Dec 2021 3:41
 Operator : JC/MD
 Sample : M4957-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20211206

Quant Time: Dec 08 06:38:28 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)

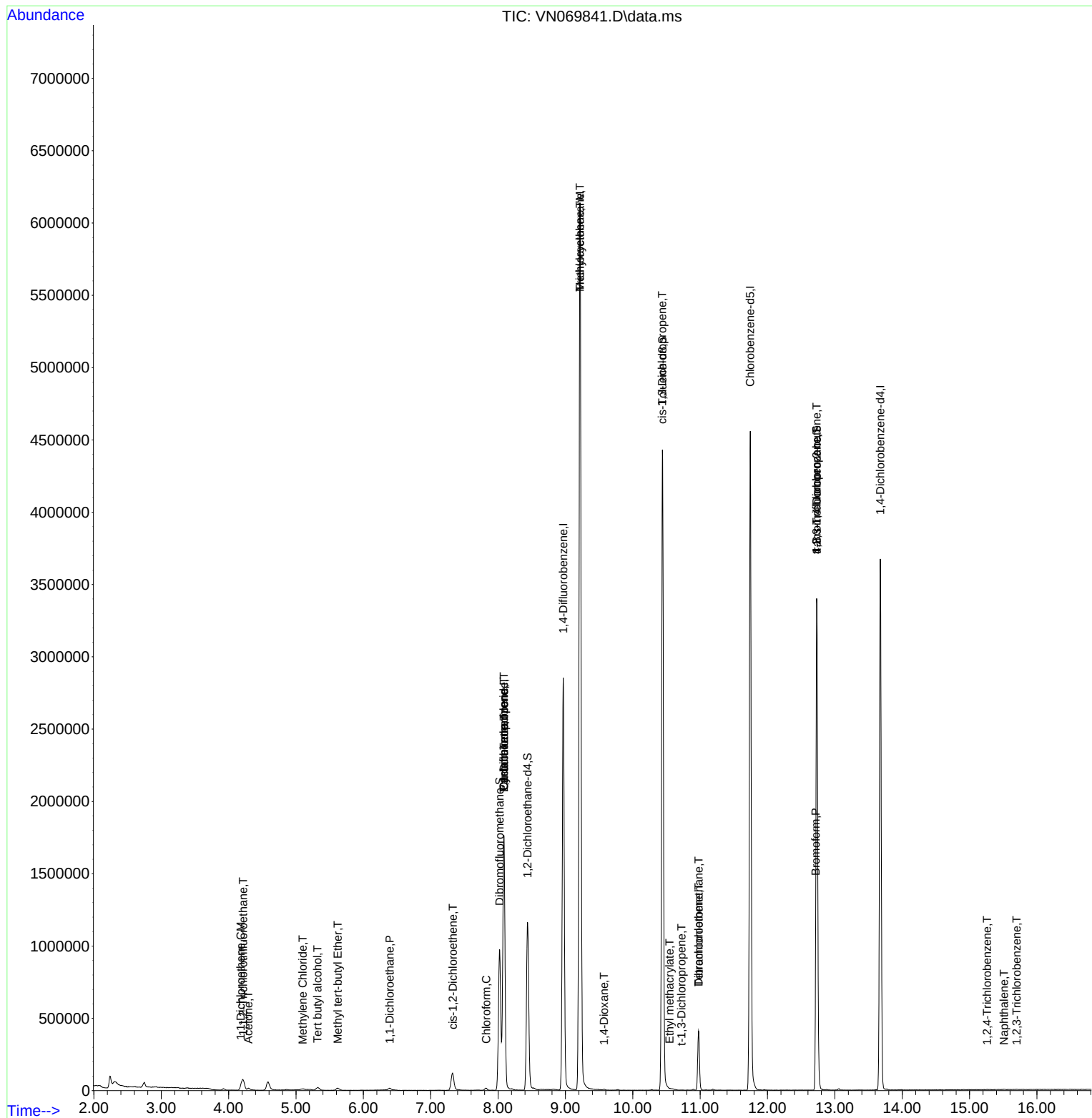
Internal Standards						
1) Pentafluorobenzene	8.088	168	1315870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2371300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2543476	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	986917	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1013939	49.91	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.82%		
35) Dibromofluoromethane	8.021	113	707774	47.65	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.30%		
50) Toluene-d8	10.440	98	3055750	51.24	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.48%		
62) 4-Bromofluorobenzene	12.731	95	1205922	55.81	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	111.62%		
Target Compounds					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.215	101	43716	3.36	ug/l	97
11) Tert butyl alcohol	5.318	59	19979	5.20	ug/l #	71
12) 1,1-Dichloroethene	4.178	96	10830	0.86	ug/l	87
16) Acetone	4.293	43	13592	1.11	ug/l	96
19) Methyl tert-butyl Ether	5.618	73	20852	0.43	ug/l	98
20) Methylene Chloride	5.100	84	3527	0.22	ug/l #	86
24) 1,1-Dichloroethane	6.391	63	10263	0.36	ug/l	98
27) cis-1,2-Dichloroethene	7.329	96	35900	2.18	ug/l	86
30) Chloroform	7.823	83	14896	0.52	ug/l	98
31) Cyclohexane	8.086	56	34054	1.20	ug/l #	23
36) 1,1-Dichloropropene	8.088	75	113969	5.05	ug/l #	48
38) Carbon Tetrachloride	8.086	117	135245	6.11	ug/l #	16
39) Methylcyclohexane	9.215	83	28738	1.07	ug/l #	1
44) Trichloroethene	9.215	130	2162309	131.30	ug/l	91
49) 1,4-Dioxane	9.571	88	5139	12.34	ug/l #	77
53) t-1,3-Dichloropropene	10.725	75	242	2.80	ug/l	90
54) cis-1,3-Dichloropropene	10.438	75	949	2.03	ug/l #	1
56) Ethyl methacrylate	10.545	69	87	2.28	ug/l #	1
60) Dibromochloromethane	10.977	129	85331	6.84	ug/l #	11
64) Tetrachloroethene	10.977	164	88801	5.15	ug/l	97
71) Bromoform	12.715	173	760	2.78	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	672850	23.77	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	672850	75.55	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.260	180	499	2.91	ug/l #	81
95) Naphthalene	15.509	128	2409	4.03	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.700	180	690	2.48	ug/l #	54

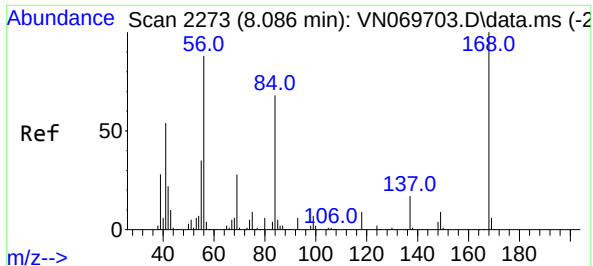
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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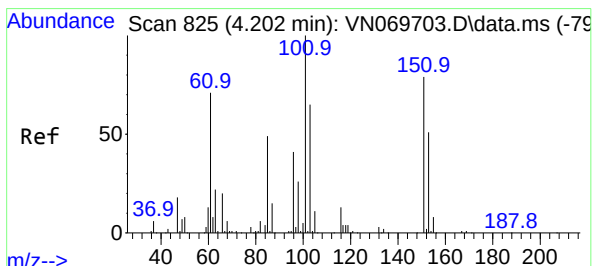
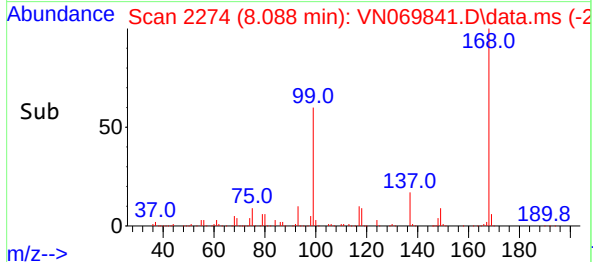
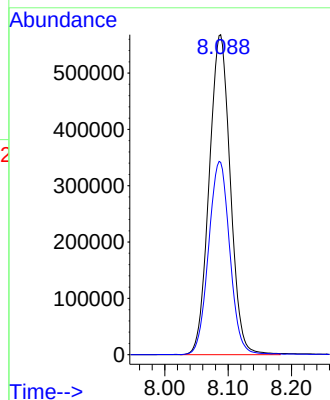
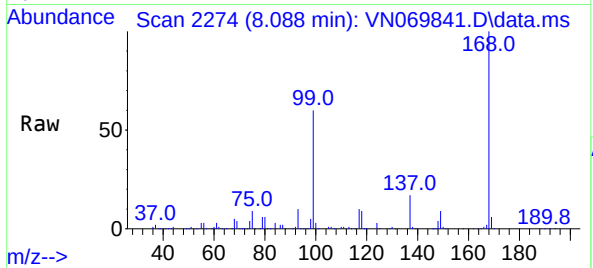




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

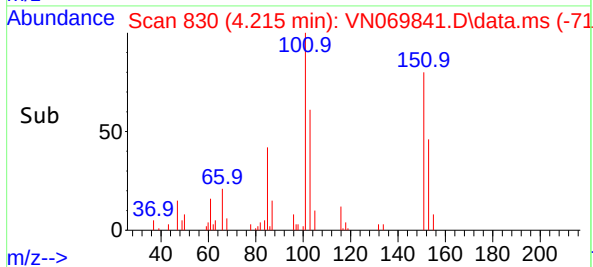
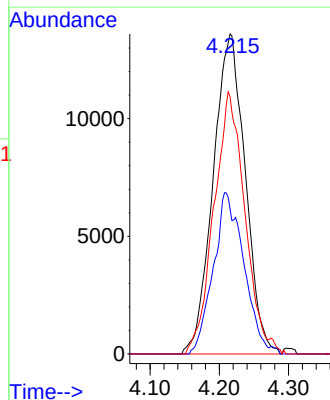
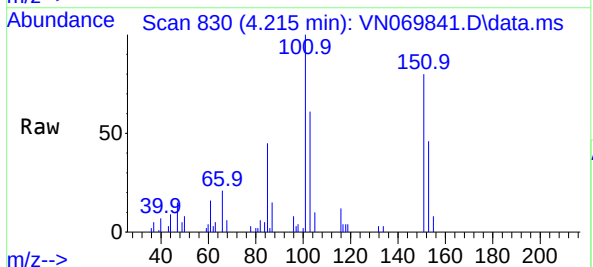
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

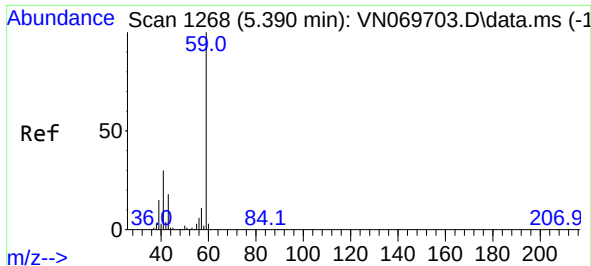
Tgt Ion:168 Resp: 1315870
Ion Ratio Lower Upper
168 100
99 60.0 41.3 61.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.36 ug/l
RT: 4.215 min Scan# 830
Delta R.T. 0.013 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion:101 Resp: 43716
Ion Ratio Lower Upper
101 100
85 47.9 37.2 55.8
151 79.4 65.9 98.9

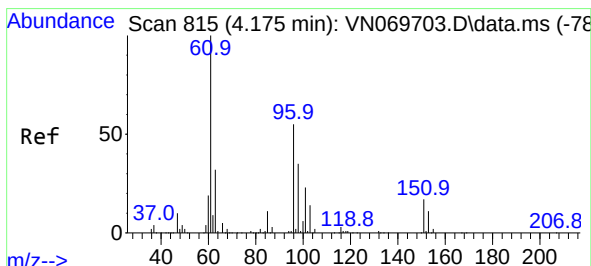
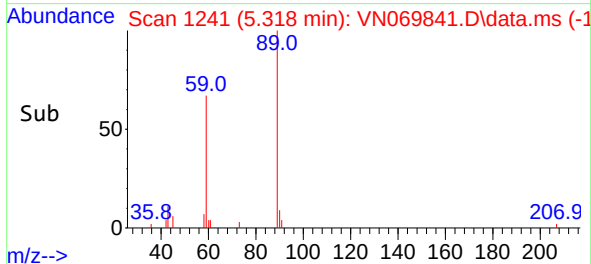
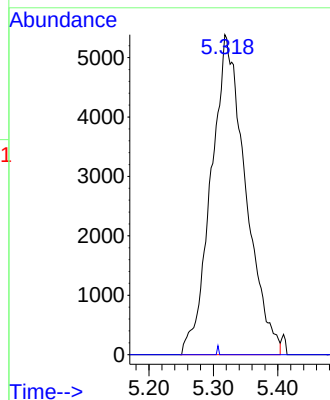
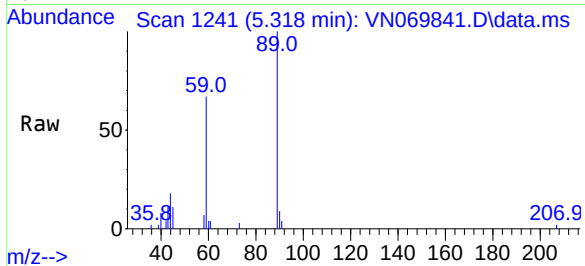




#11
Tert butyl alcohol
Concen: 5.20 ug/l
RT: 5.318 min Scan# 11
Delta R.T. -0.072 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

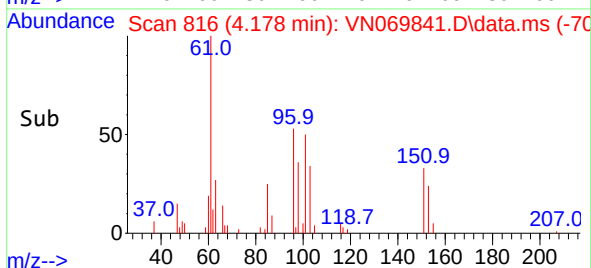
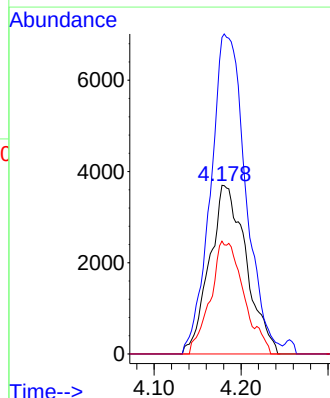
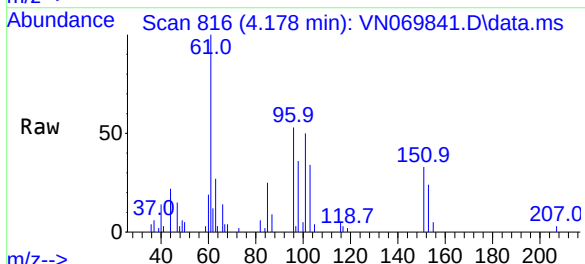
Instrument :
MSVOA_N
ClientSampleId :
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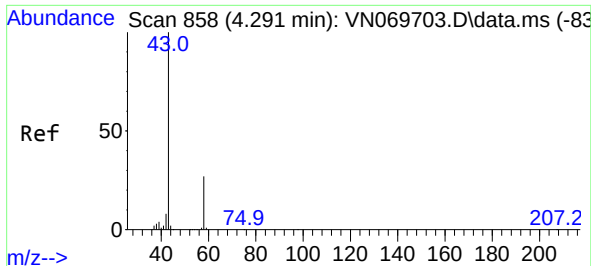
Tgt Ion: 59 Resp: 19979
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#12
1,1-Dichloroethene
Concen: 0.86 ug/l
RT: 4.178 min Scan# 816
Delta R.T. 0.003 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 96 Resp: 10830
Ion Ratio Lower Upper
96 100
61 187.7 131.0 196.6
98 66.9 52.4 78.6

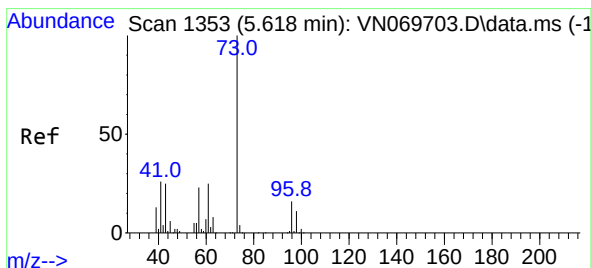
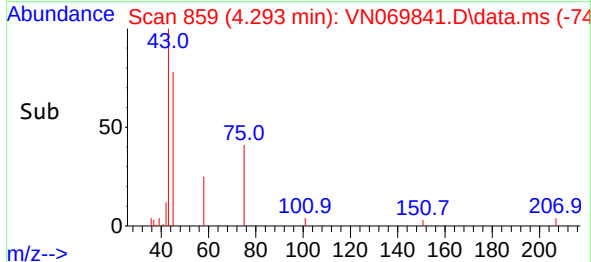
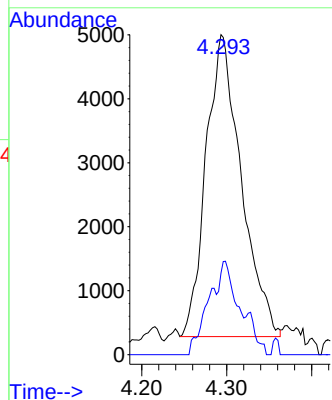
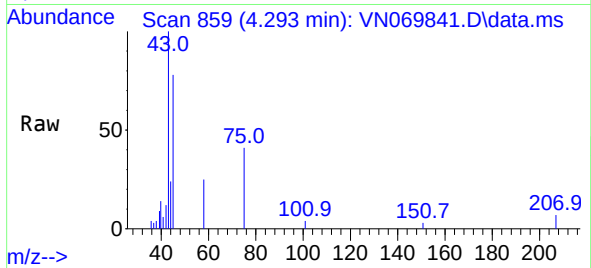




#16
Acetone
Concen: 1.11 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

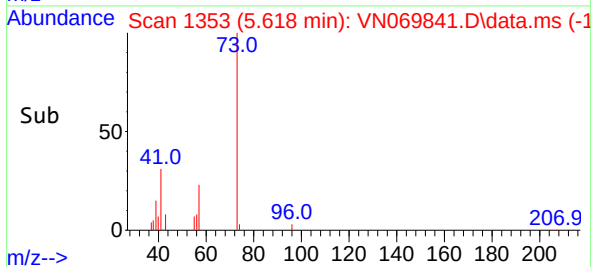
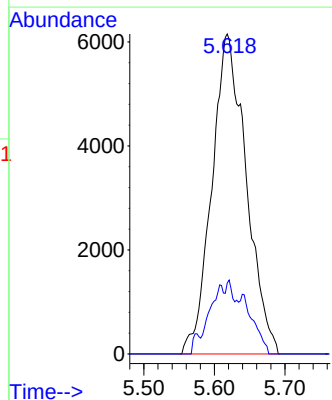
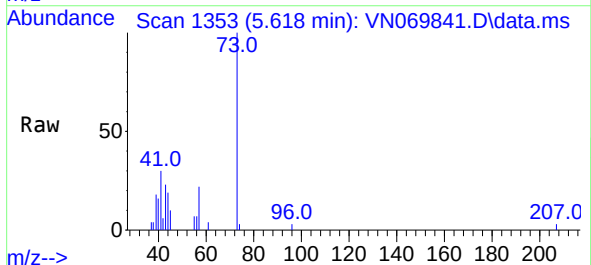
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

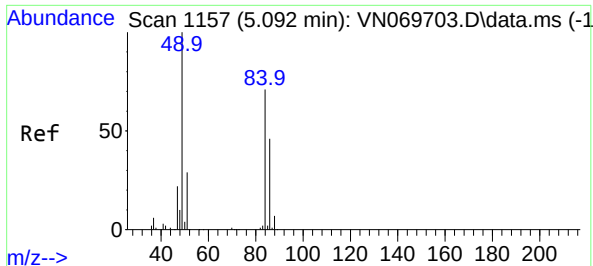
Tgt Ion: 43 Resp: 13592
Ion Ratio Lower Upper
43 100
58 27.0 23.1 34.7



#19
Methyl tert-butyl Ether
Concen: 0.43 ug/l
RT: 5.618 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

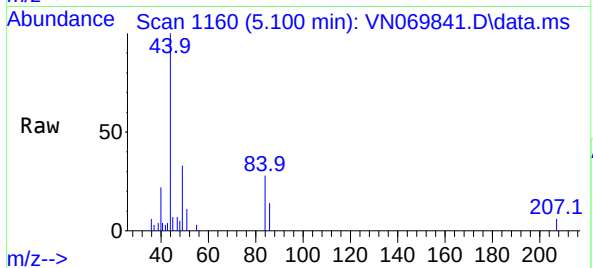
Tgt Ion: 73 Resp: 20852
Ion Ratio Lower Upper
73 100
57 22.1 16.8 25.2



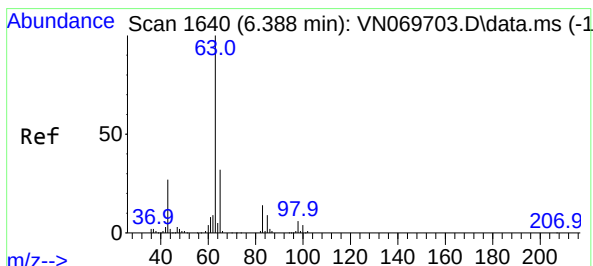
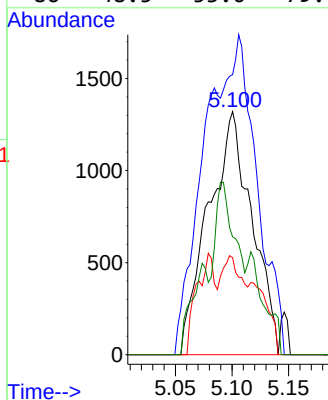
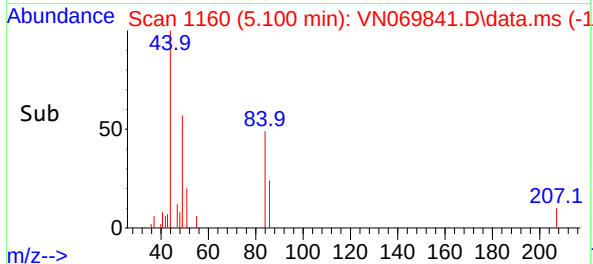


#20
Methylene Chloride
Concen: 0.22 ug/l
RT: 5.100 min Scan# 1157
Delta R.T. 0.008 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Instrument :
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ClientSampleId :
RE125D1-20211206

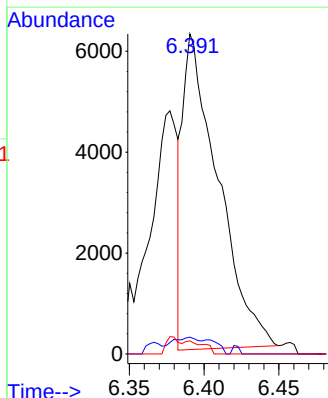
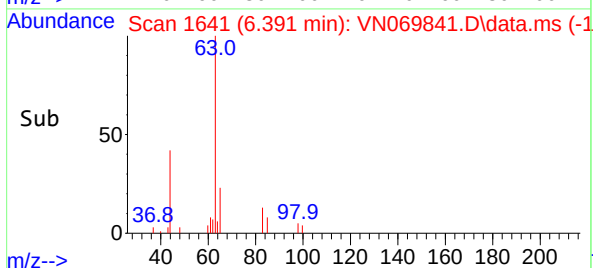
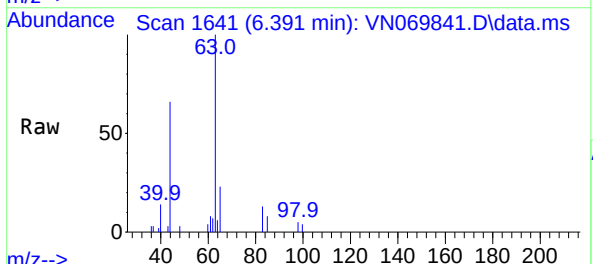


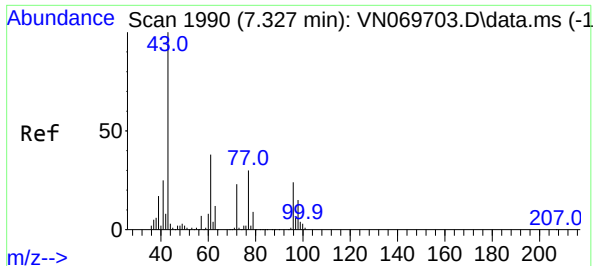
Tgt Ion: 84 Resp: 3527
Ion Ratio Lower Upper
84 100
49 103.2 93.5 140.3
51 39.9 29.4 44.2
86 48.5 53.0 79.4#



#24
1,1-Dichloroethane
Concen: 0.36 ug/l
RT: 6.391 min Scan# 1641
Delta R.T. 0.003 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 63 Resp: 10263
Ion Ratio Lower Upper
63 100
98 5.4 3.3 9.9
100 4.2 2.1 6.5

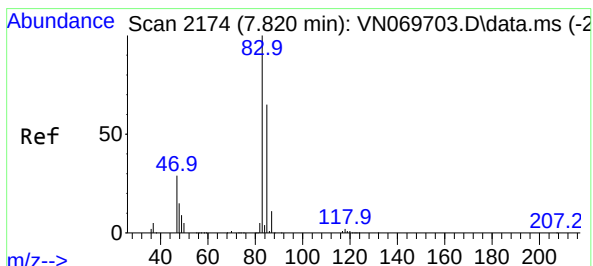
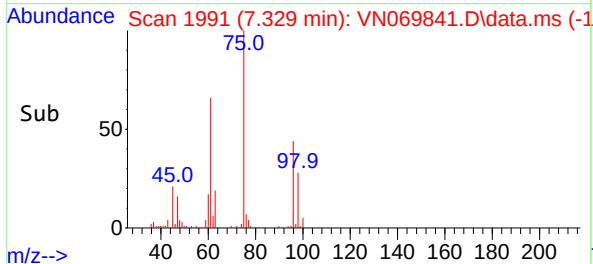
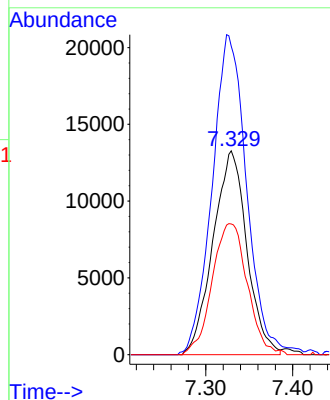
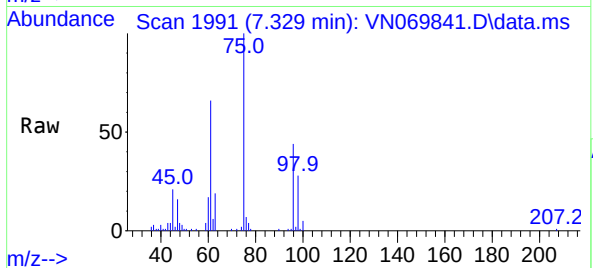




#27
 cis-1,2-Dichloroethene
 Concen: 2.18 ug/l
 RT: 7.329 min Scan# 1991
 Delta R.T. 0.003 min
 Lab File: VN069841.D
 Acq: 8 Dec 2021 3:41

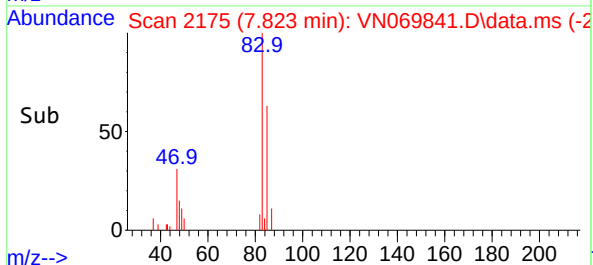
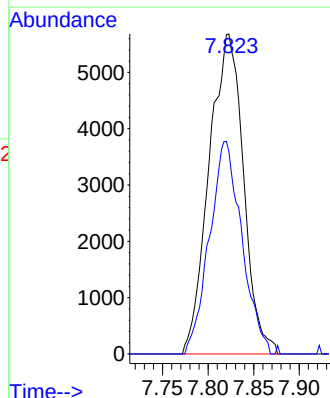
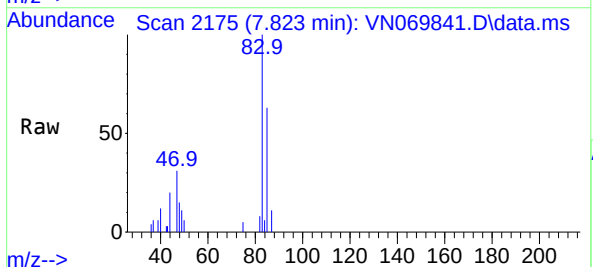
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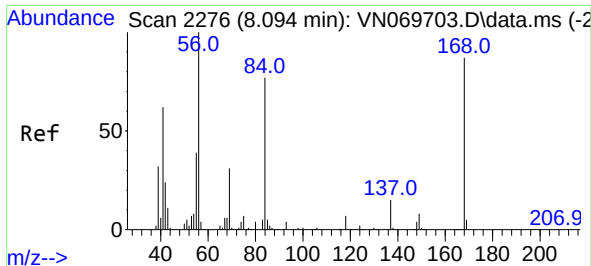
Tgt Ion: 96 Resp: 35900
 Ion Ratio Lower Upper
 96 100
 61 160.3 0.0 275.0
 98 66.9 0.0 129.6



#30
 Chloroform
 Concen: 0.52 ug/l
 RT: 7.823 min Scan# 2175
 Delta R.T. 0.003 min
 Lab File: VN069841.D
 Acq: 8 Dec 2021 3:41

Tgt Ion: 83 Resp: 14896
 Ion Ratio Lower Upper
 83 100
 85 63.3 51.9 77.9

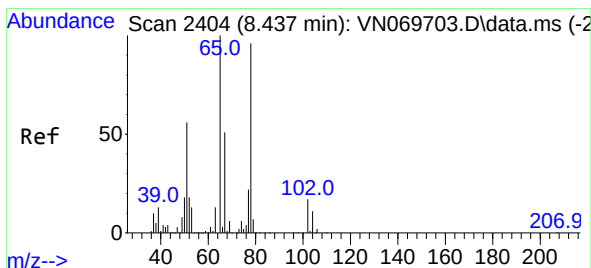
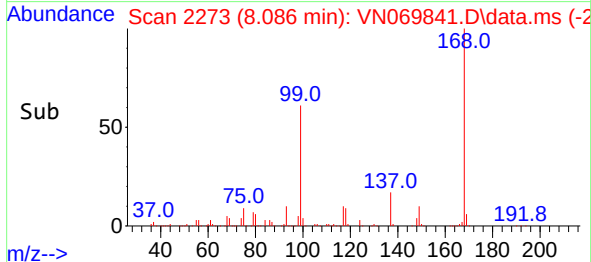
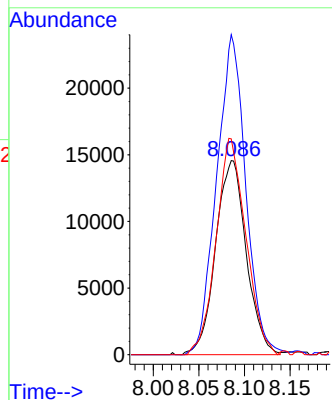
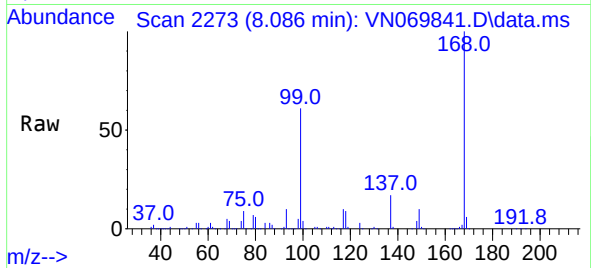




#31
Cyclohexane
Concen: 1.20 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

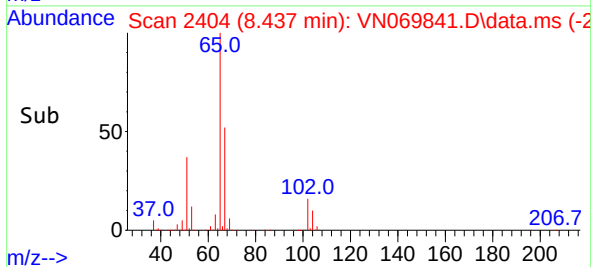
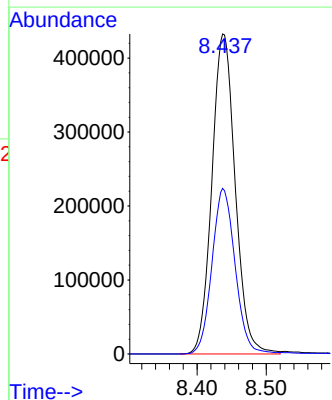
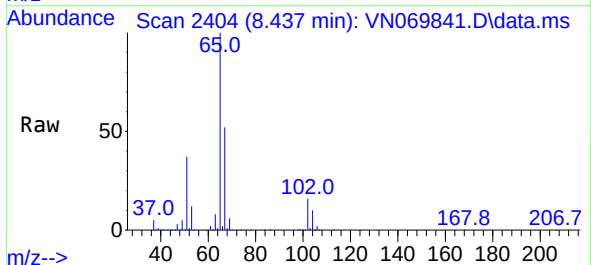
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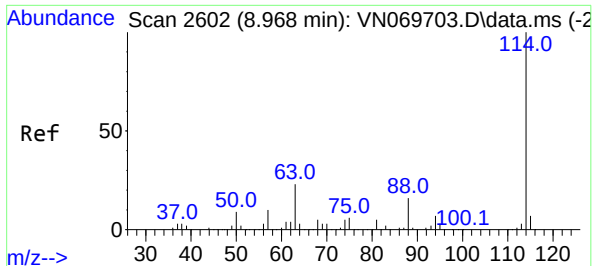
Tgt Ion: 56 Resp: 34054
Ion Ratio Lower Upper
56 100
69 164.8 27.1 40.7#
84 111.2 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 49.91 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 65 Resp: 1013939
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN069841.D

Acq: 8 Dec 2021 3:41

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20211206

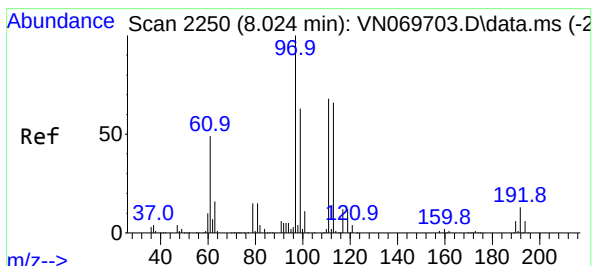
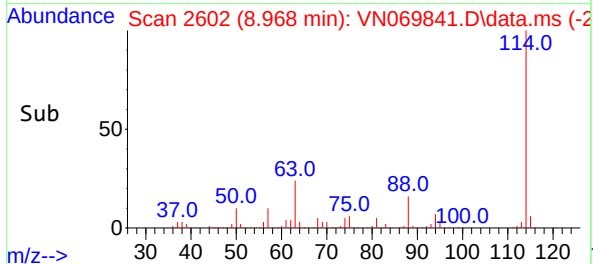
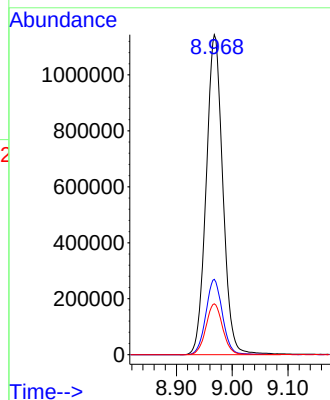
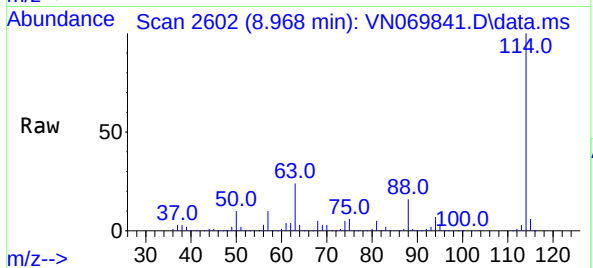
Tgt Ion:114 Resp: 2371300

Ion Ratio Lower Upper

114 100

63 23.6 0.0 37.8

88 15.9 0.0 27.4



#35

Dibromofluoromethane

Concen: 47.65 ug/l

RT: 8.021 min Scan# 2249

Delta R.T. -0.003 min

Lab File: VN069841.D

Acq: 8 Dec 2021 3:41

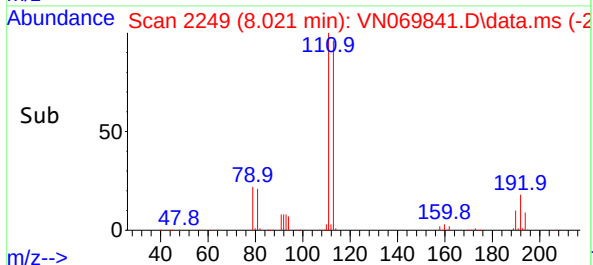
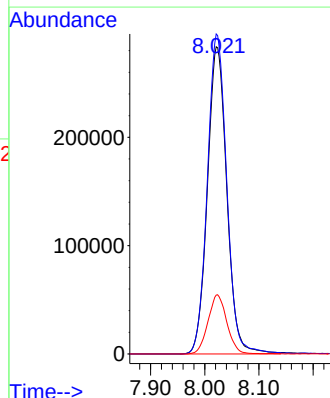
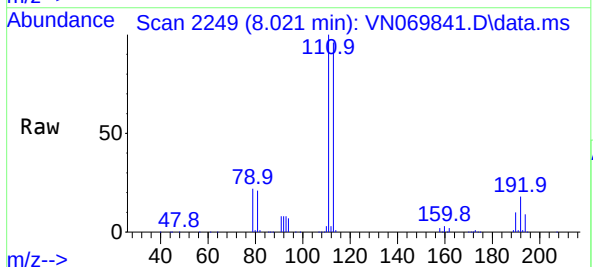
Tgt Ion:113 Resp: 707774

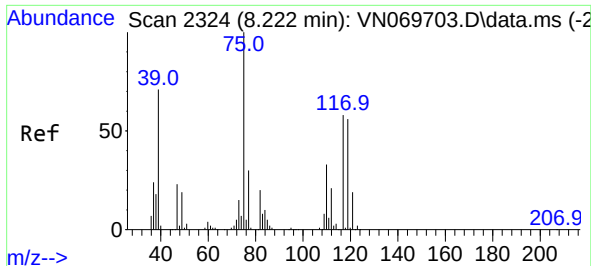
Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.2

192 18.7 16.9 25.3

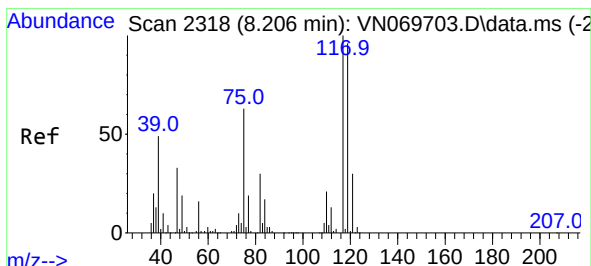
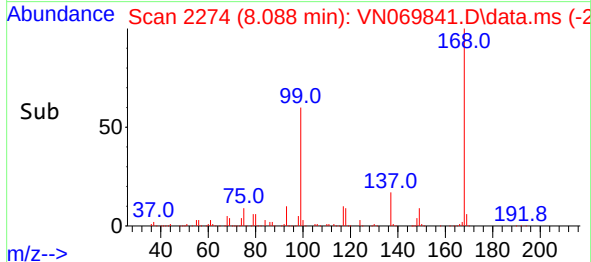
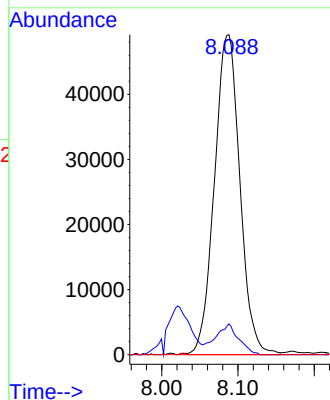
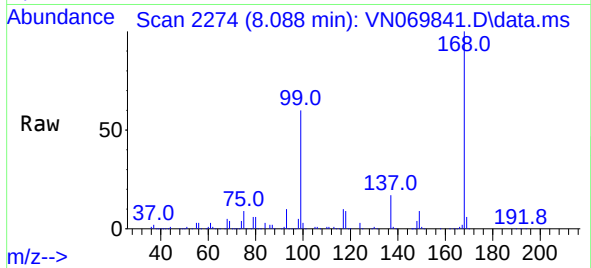




#36
1,1-Dichloropropene
Concen: 5.05 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.134 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

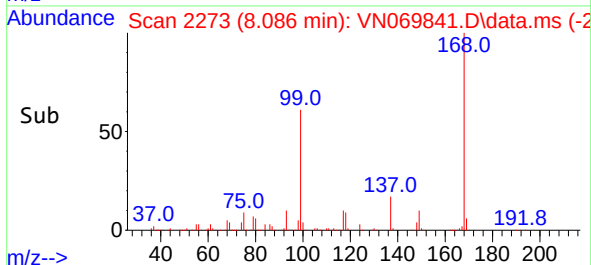
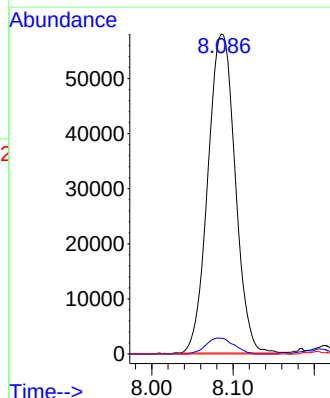
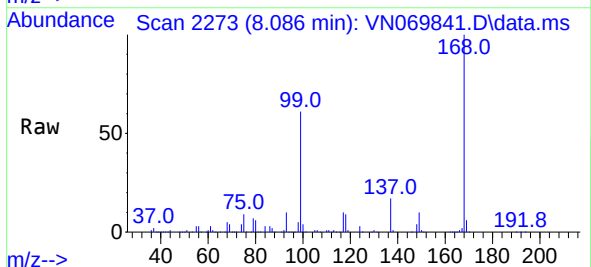
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

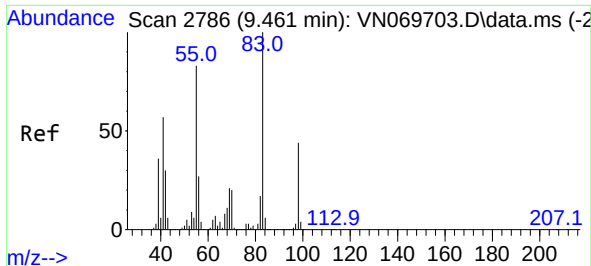
Tgt Ion: 75 Resp: 113969
Ion Ratio Lower Upper
75 100
110 8.2 18.4 55.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.11 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.121 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 117 Resp: 135245
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 1.07 ug/l

RT: 9.215 min Scan# 2694

Delta R.T. -0.247 min

Lab File: VN069841.D

Acq: 8 Dec 2021 3:41

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20211206

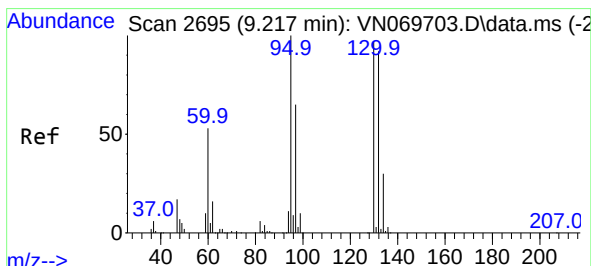
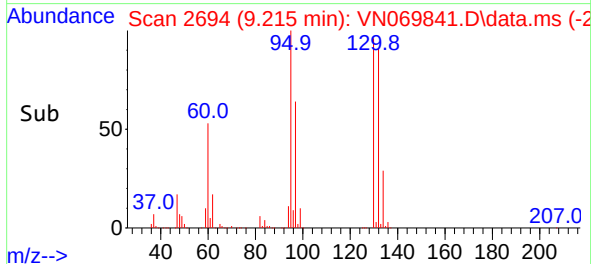
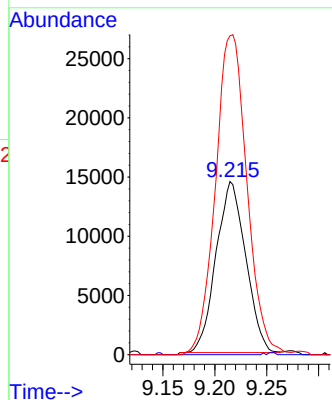
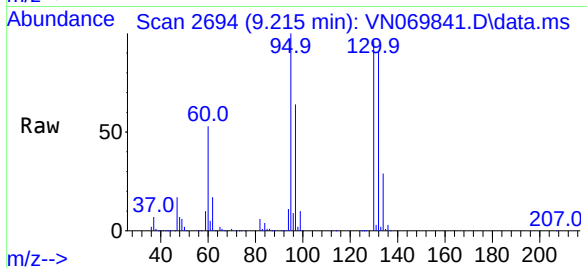
Tgt Ion: 83 Resp: 28738

Ion Ratio Lower Upper

83 100

55 0.0 58.1 87.1#

98 186.4 38.4 57.6#



#44

Trichloroethene

Concen: 131.30 ug/l

RT: 9.215 min Scan# 2694

Delta R.T. -0.002 min

Lab File: VN069841.D

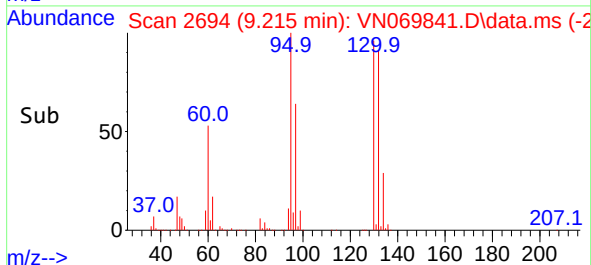
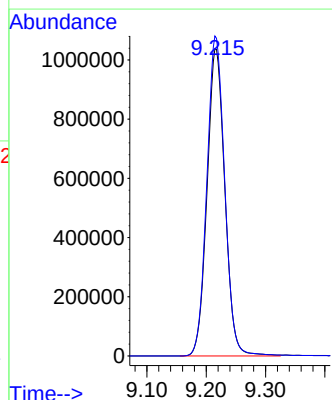
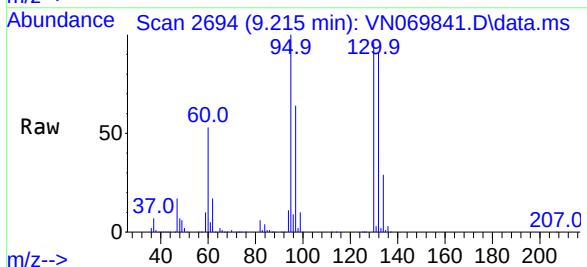
Acq: 8 Dec 2021 3:41

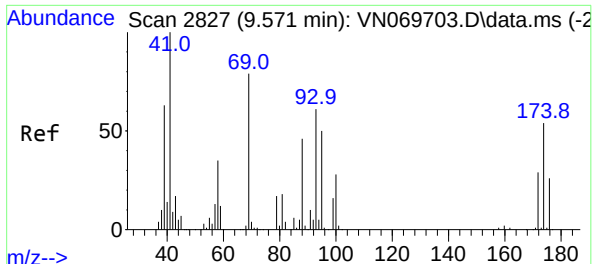
Tgt Ion:130 Resp: 2162309

Ion Ratio Lower Upper

130 100

95 104.1 0.0 191.2

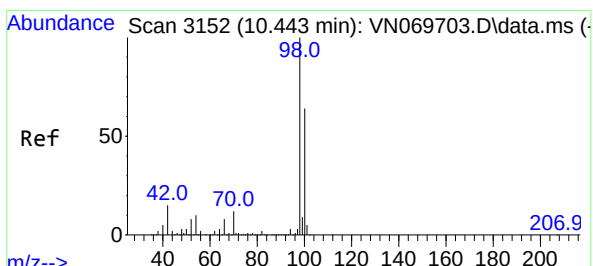
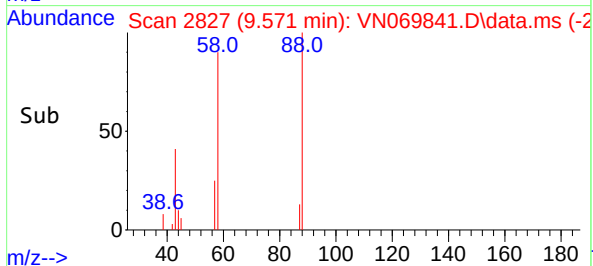
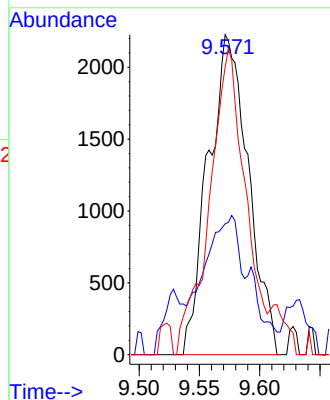
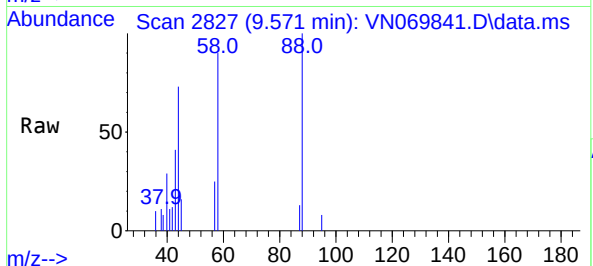




#49
1,4-Dioxane
Concen: 12.34 ug/l
RT: 9.571 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

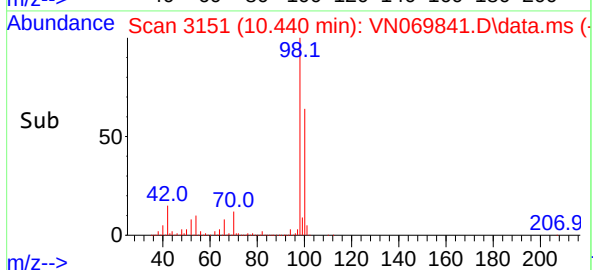
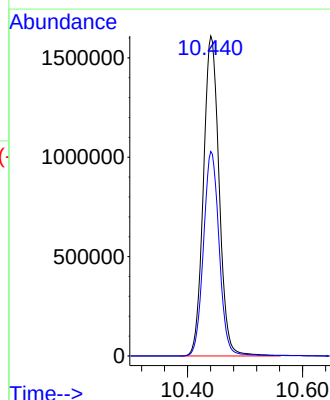
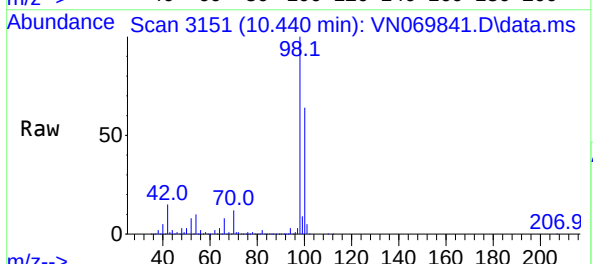
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

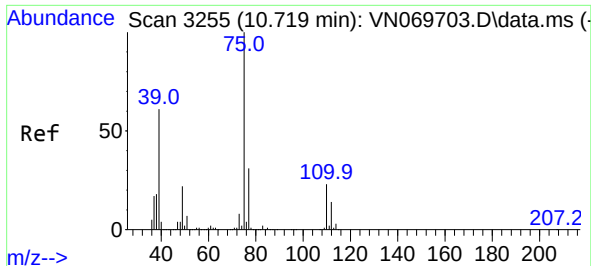
Tgt Ion: 88 Resp: 5139
Ion Ratio Lower Upper
88 100
43 23.0 23.4 35.2#
58 85.3 50.6 75.8#



#50
Toluene-d8
Concen: 51.24 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 98 Resp: 3055750
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6

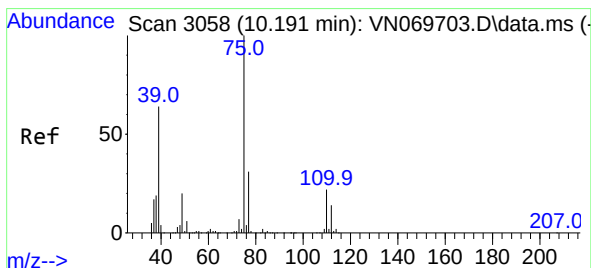
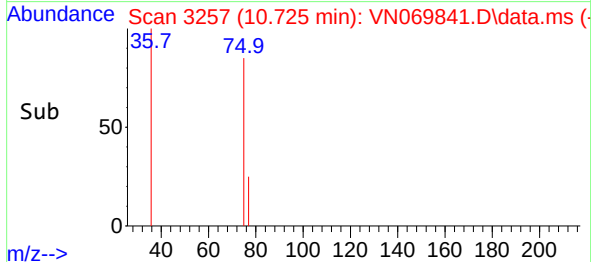
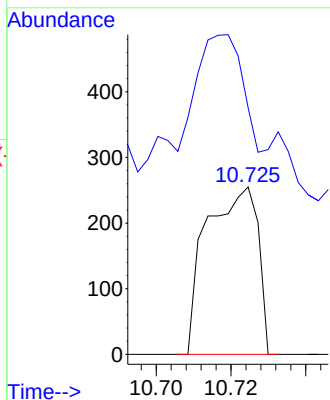
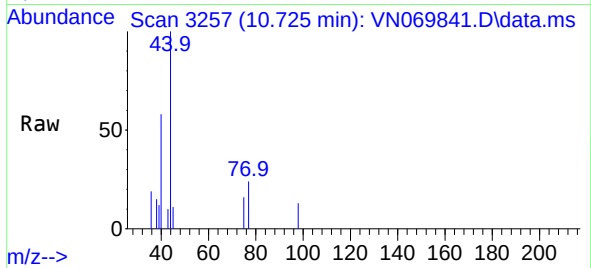




#53
t-1,3-Dichloropropene
Concen: 2.80 ug/l
RT: 10.725 min Scan# 3150
Delta R.T. 0.006 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

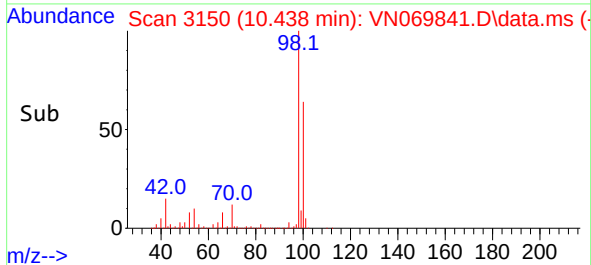
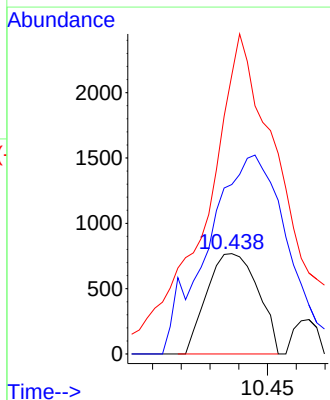
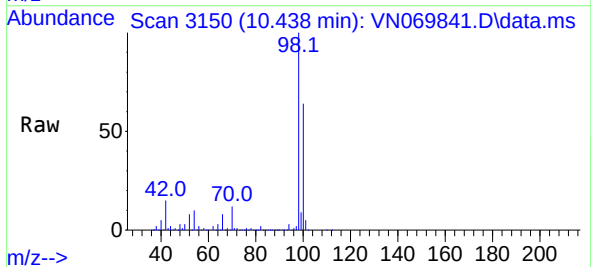
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

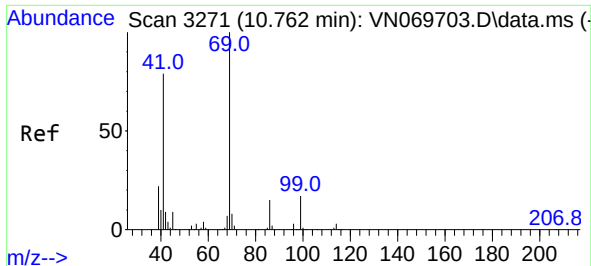
Tgt Ion: 75 Resp: 242
Ion Ratio Lower Upper
75 100
77 26.3 25.6 38.4



#54
cis-1,3-Dichloropropene
Concen: 2.03 ug/l
RT: 10.438 min Scan# 3150
Delta R.T. 0.247 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

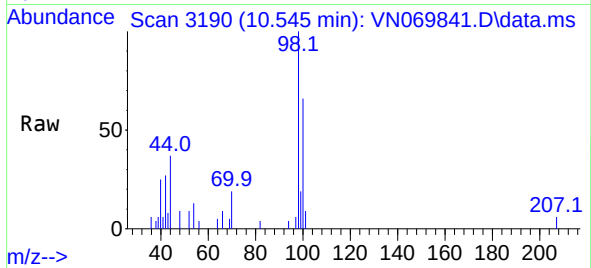
Tgt Ion: 75 Resp: 949
Ion Ratio Lower Upper
75 100
77 92.7 26.4 39.6#
39 192.3 42.5 63.7#



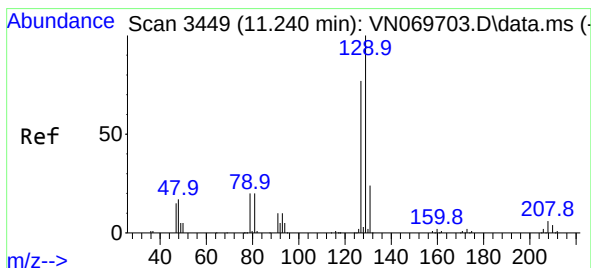
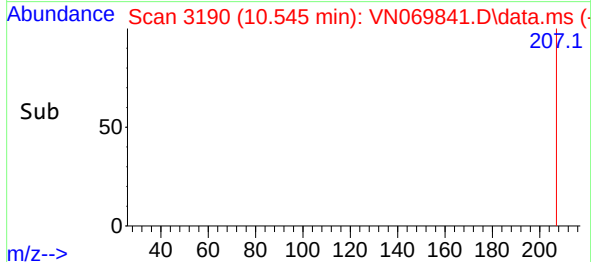
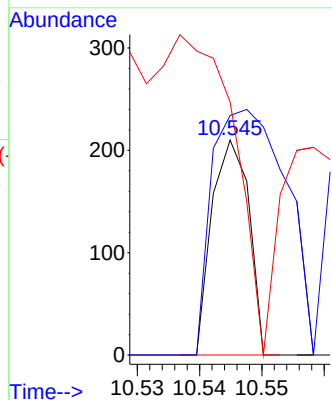


#56
Ethyl methacrylate
Concen: 2.28 ug/l
RT: 10.545 min Scan# 311
Delta R.T. -0.217 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

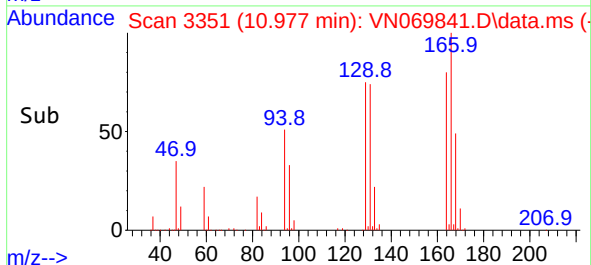
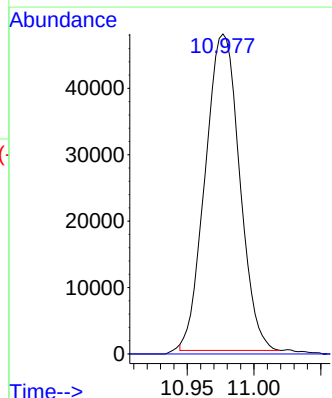
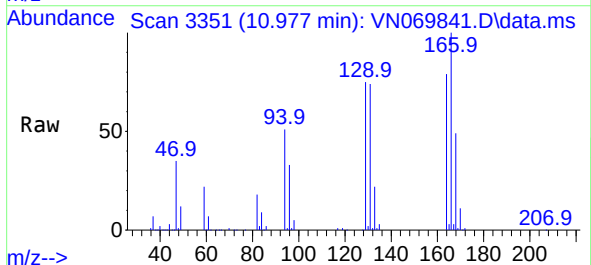


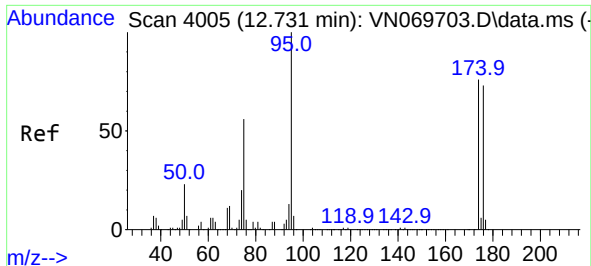
Tgt Ion: 69 Resp: 87
Ion Ratio Lower Upper
69 100
41 227.6 51.4 77.0#
39 0.0 34.6 52.0#



#60
Dibromochloromethane
Concen: 6.84 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.263 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 129 Resp: 85331
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

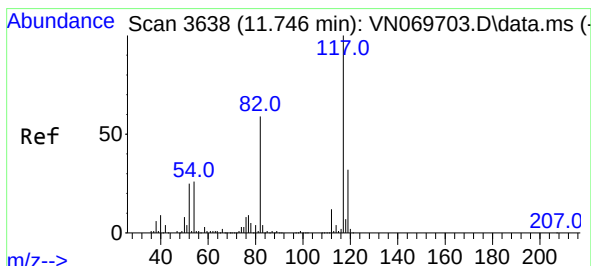
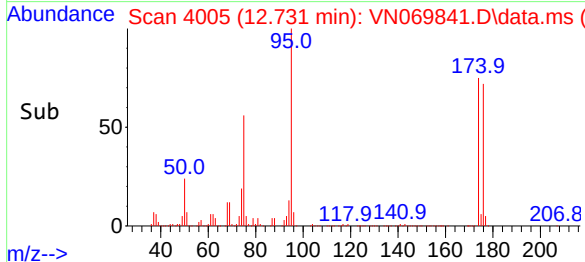
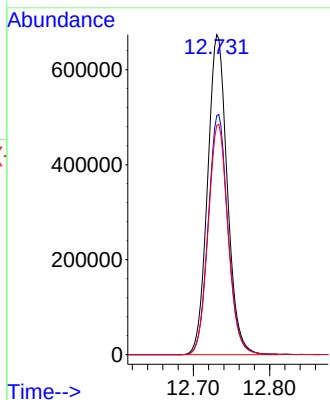
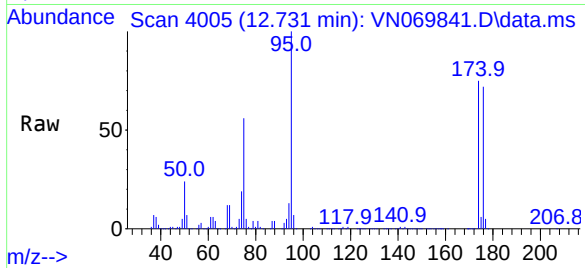




#62
4-Bromofluorobenzene
Concen: 55.81 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

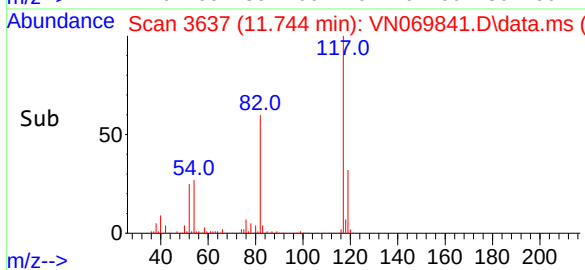
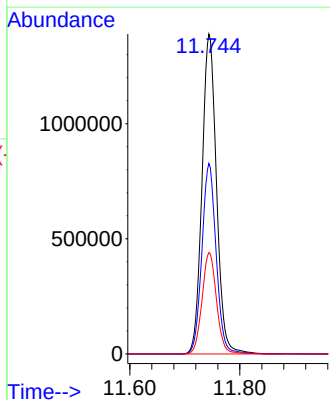
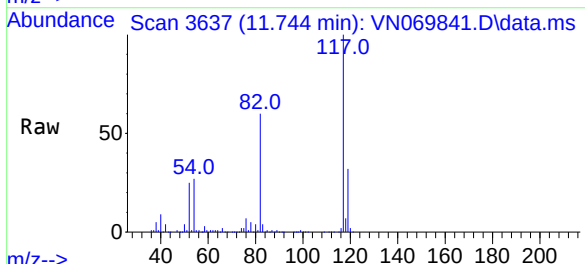
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

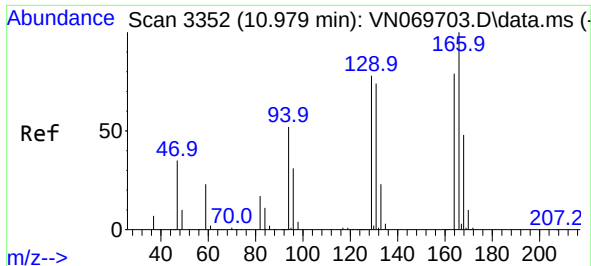
Tgt Ion: 95 Resp: 1205922
Ion Ratio Lower Upper
95 100
174 75.5 0.0 187.2
176 72.6 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

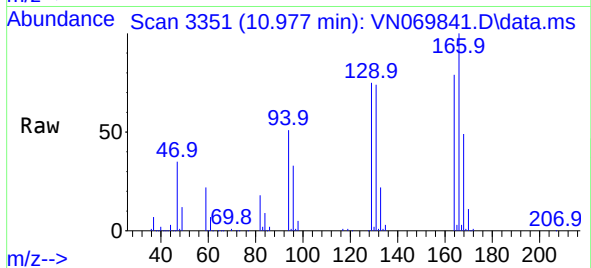
Tgt Ion: 117 Resp: 2543476
Ion Ratio Lower Upper
117 100
82 59.6 42.4 63.6
119 31.7 25.4 38.2



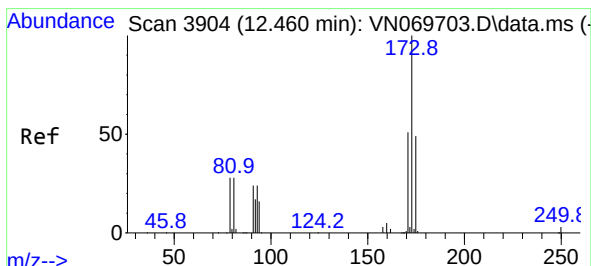
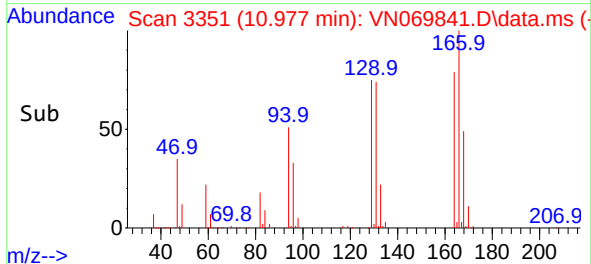
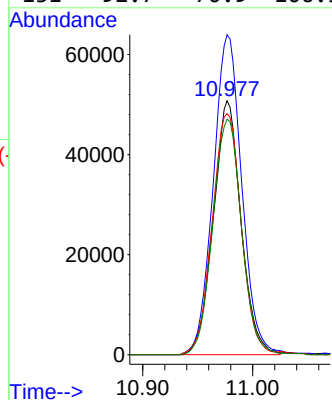


#64
Tetrachloroethene
Concen: 5.15 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.002 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

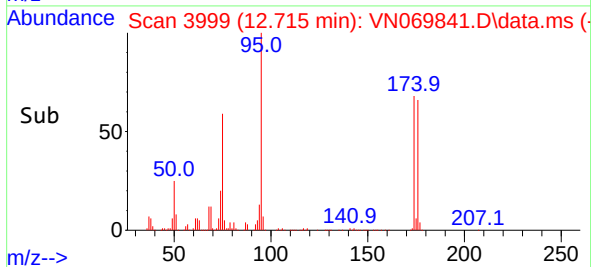
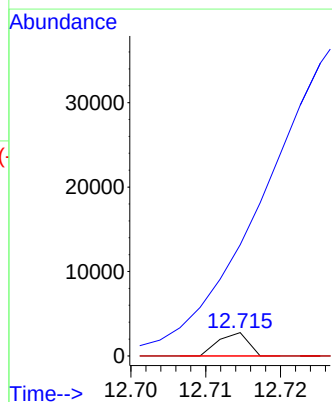
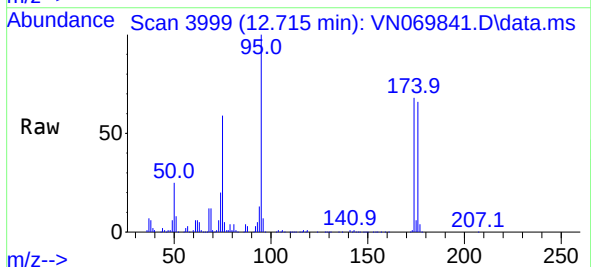


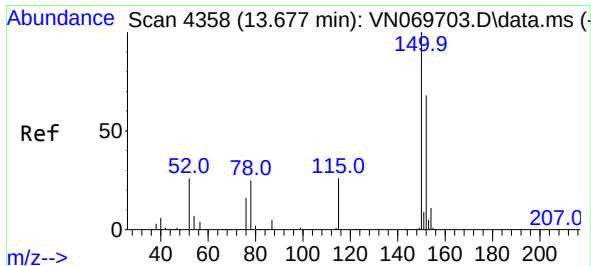
Tgt Ion:164 Resp: 88801
Ion Ratio Lower Upper
164 100
166 126.0 101.9 152.9
129 94.9 72.0 108.0
131 92.7 70.9 106.3



#71
Bromoform
Concen: 2.78 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion:173 Resp: 760
Ion Ratio Lower Upper
173 100
175 8678.7 24.2 72.6#
254 0.0 0.0 0.0

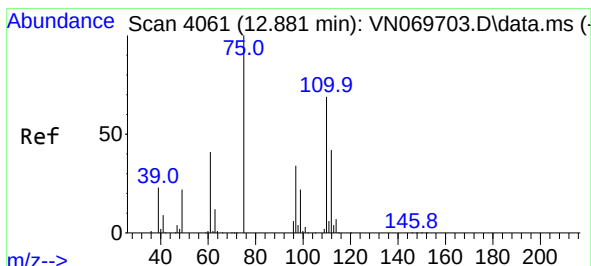
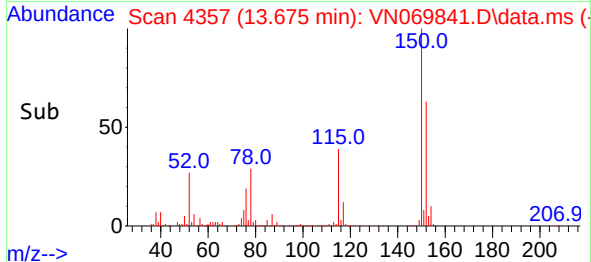
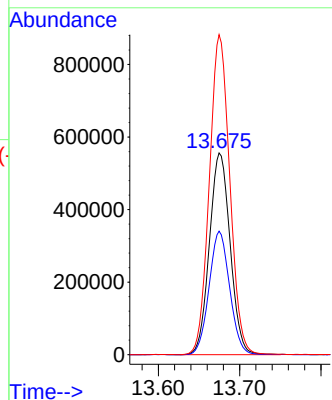
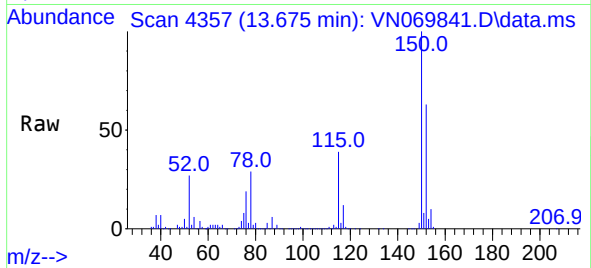




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

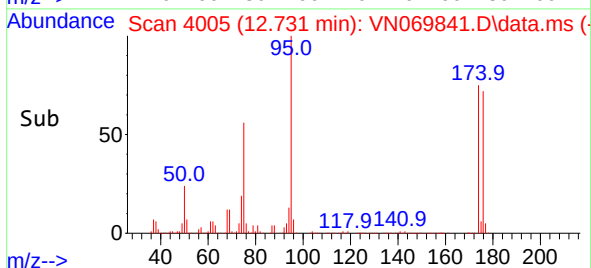
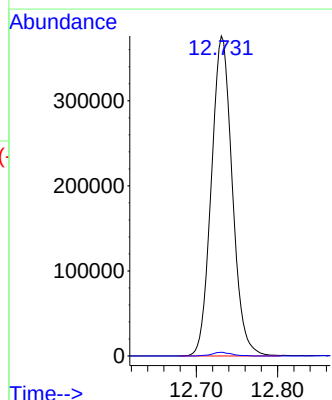
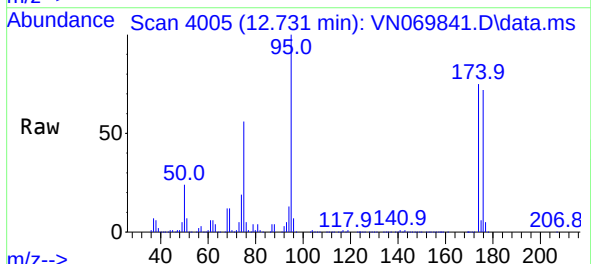
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

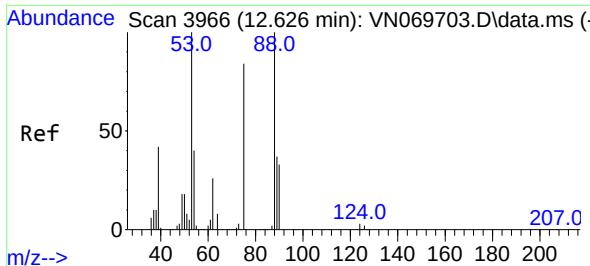
Tgt Ion:152 Resp: 986917
Ion Ratio Lower Upper
152 100
115 60.7 27.5 82.5
150 156.1 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 23.77 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion: 75 Resp: 672850
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

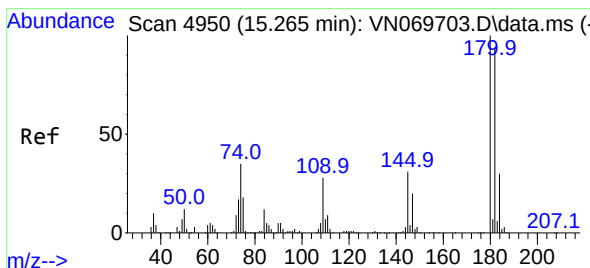
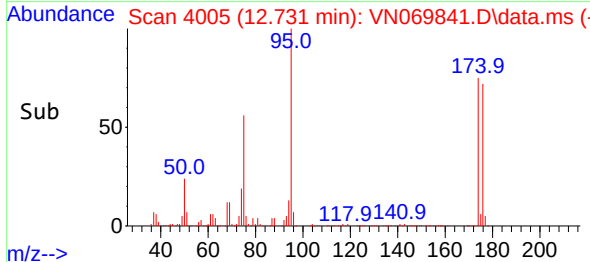
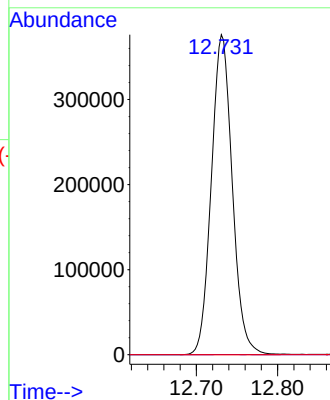
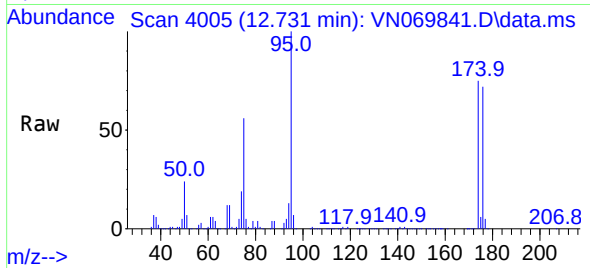




#81
trans-1,4-Dichloro-2-butene
Concen: 75.55 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

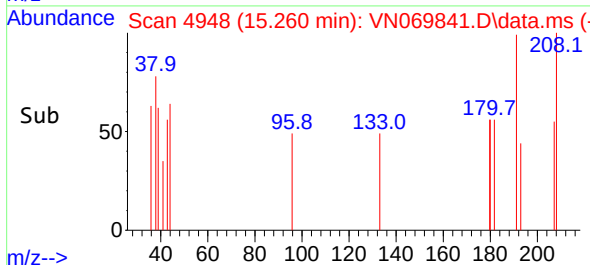
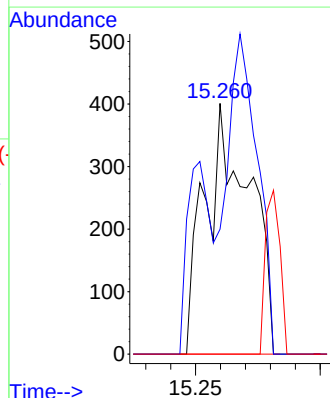
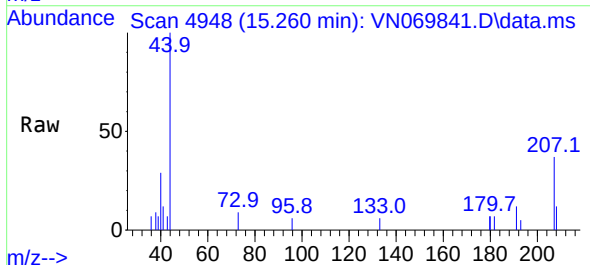
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

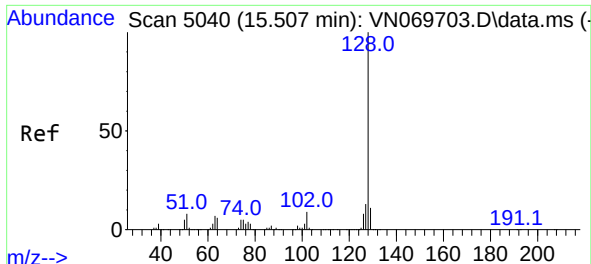
Tgt Ion: 75 Resp: 672850
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.91 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.005 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion:180 Resp: 499
Ion Ratio Lower Upper
180 100
182 87.8 48.3 144.9
145 0.0 14.5 43.5#

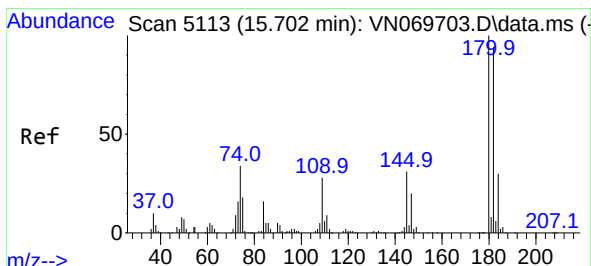
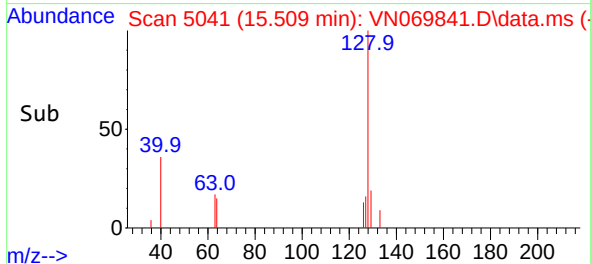
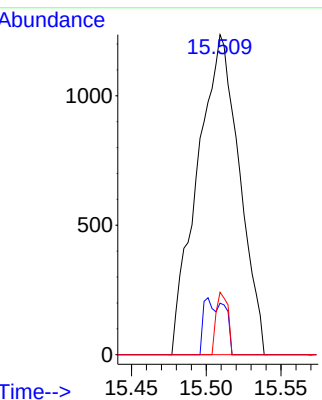
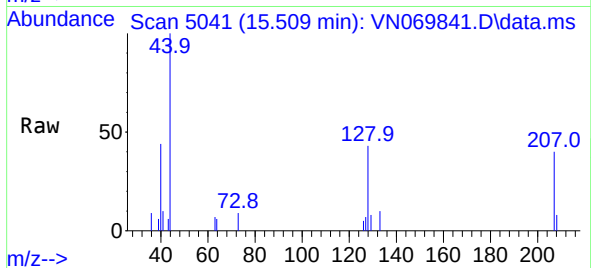




#95
Naphthalene
Concen: 4.03 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20211206

Tgt Ion:128 Resp: 2409
Ion Ratio Lower Upper
128 100
127 5.1 10.5 15.7#
129 5.4 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.48 ug/l
RT: 15.700 min Scan# 5112
Delta R.T. -0.002 min
Lab File: VN069841.D
Acq: 8 Dec 2021 3:41

Tgt Ion:180 Resp: 690
Ion Ratio Lower Upper
180 100
182 53.5 47.4 142.2
145 0.0 15.0 45.1#

