

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120921\
 Data File : VN069944.D
 Acq On : 10 Dec 2021 5:54
 Operator : JC/MD
 Sample : M4966-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P5-2

Quant Time: Dec 10 08:15:54 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)

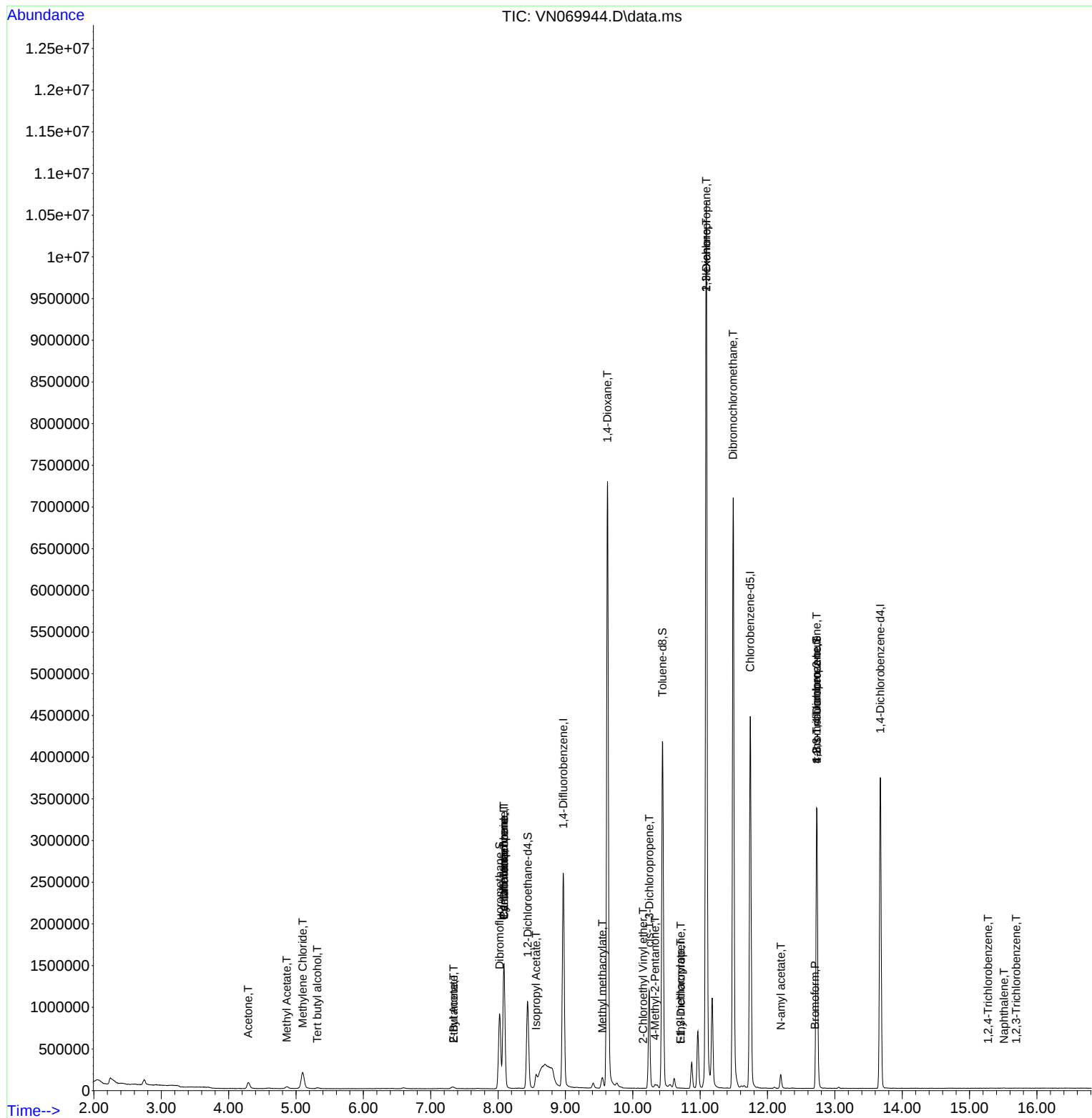
Internal Standards						
1) Pentafluorobenzene	8.088	168	1089213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2119521	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2430668	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	977868	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	896378	53.300	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.600%			
35) Dibromofluoromethane	8.024	113	654584	49.305	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.600%			
50) Toluene-d8	10.440	98	2809017	52.694	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 105.380%			
62) 4-Bromofluorobenzene	12.731	95	1143046	59.187	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 118.380%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.315	59	10324	3.248	ug/l #	71
16) Acetone	4.291	43	141855	14.022	ug/l	97
18) Methyl Acetate	4.862	43	50979	1.669	ug/l #	79
20) Methylene Chloride	5.101	84	140548	10.451	ug/l #	83
25) 2-Butanone	7.340	43	10147	0.738	ug/l	92
31) Cyclohexane	8.088	56	28163	1.203	ug/l #	23
36) 1,1-Dichloropropene	8.088	75	93177	4.618	ug/l #	49
37) Ethyl Acetate	7.340	43	10245	0.341	ug/l #	70
38) Carbon Tetrachloride	8.086	117	113823	5.753	ug/l #	17
43) Isopropyl Acetate	8.563	43	198607	4.469	ug/l #	79
48) Methyl methacrylate	9.547	41	36979	1.783	ug/l #	8
49) 1,4-Dioxane	9.622	88	1020	2.741	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	19635	0.681	ug/l #	84
53) t-1,3-Dichloropropene	10.711	75	102	2.798	ug/l #	43
54) cis-1,3-Dichloropropene	10.245	75	187960	8.949	ug/l #	72
56) Ethyl methacrylate	10.709	69	624	2.300	ug/l #	24
57) 1,3-Dichloropropane	11.089	76	105818	3.956	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.153	63	26	18.392	ug/l #	45
59) 2-Hexanone	11.089	43	1902210	87.221	ug/l #	47
60) Dibromochloromethane	11.489	129	1263	2.450	ug/l #	11
71) Bromoform	12.704	173	116	2.738	ug/l #	29
74) N-amyl acetate	12.197	43	61321	1.594	ug/l #	53
76) 1,2,3-Trichloropropane	12.731	75	651754	23.241	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	651754	73.949	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.273	180	362	2.899	ug/l #	48
95) Naphthalene	15.509	128	3065	4.044	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.692	180	170	2.446	ug/l #	54

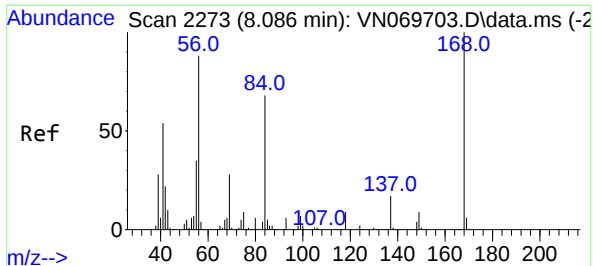
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 03 08:46:47 2021
Response via : Initial Calibration

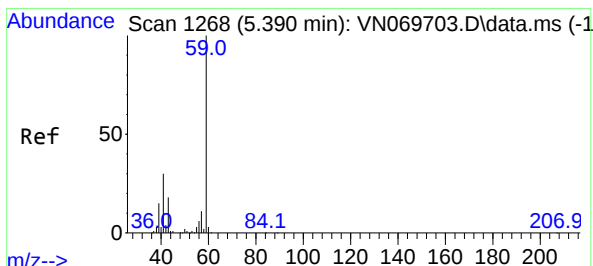
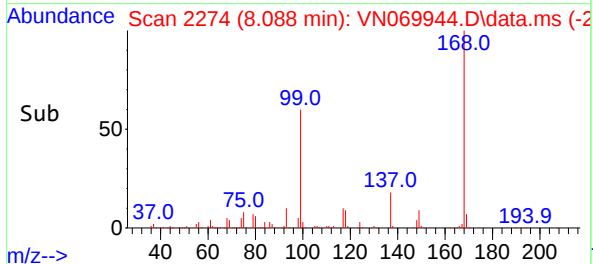
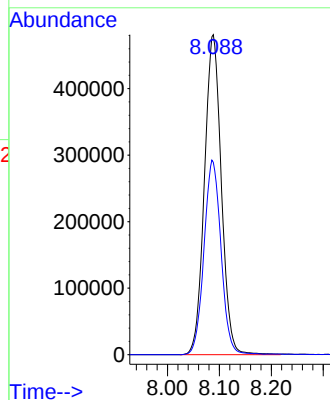
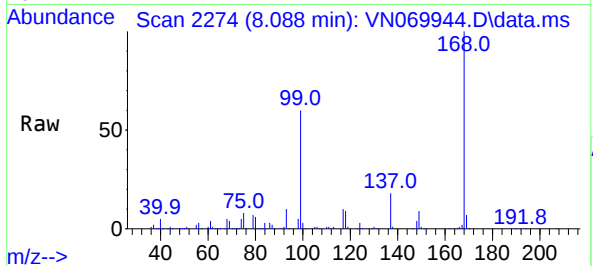




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

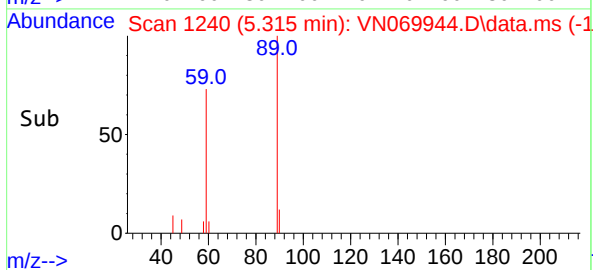
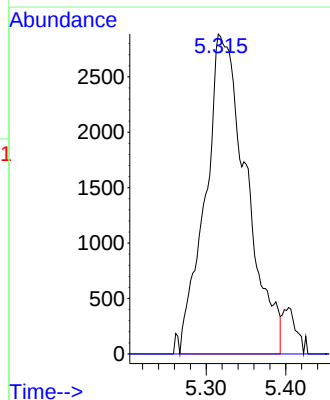
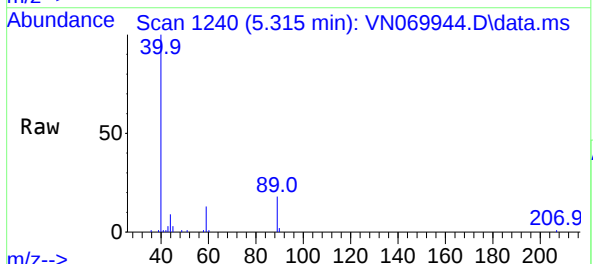
Instrument :
MSVOA_N
ClientSampleId :
P5-2

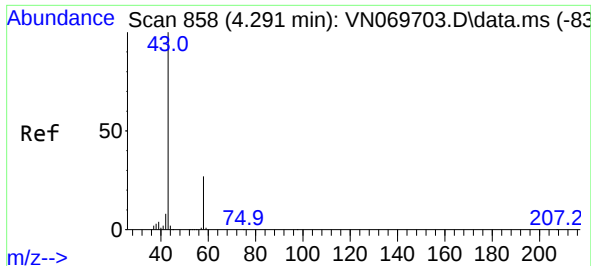
Tgt Ion:168 Resp: 1089213
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#11
Tert butyl alcohol
Concen: 3.248 ug/l
RT: 5.315 min Scan# 1240
Delta R.T. -0.075 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 59 Resp: 10324
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

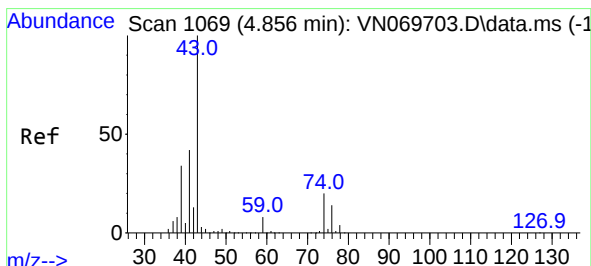
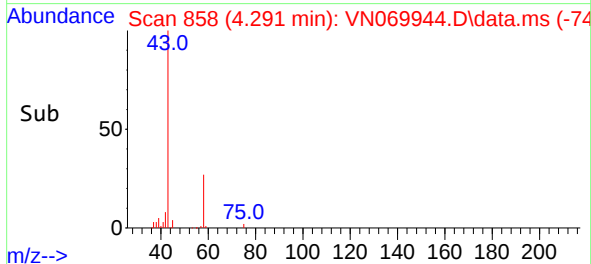
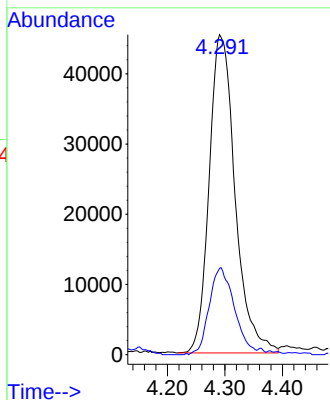
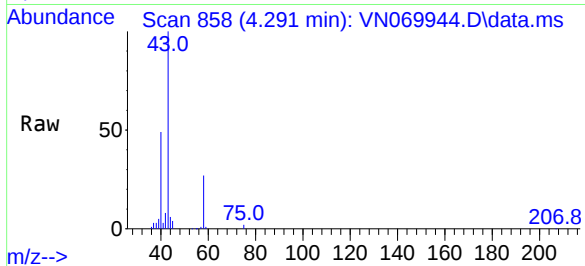




#16
Acetone
Concen: 14.022 ug/l
RT: 4.291 min Scan# 81
Delta R.T. 0.000 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

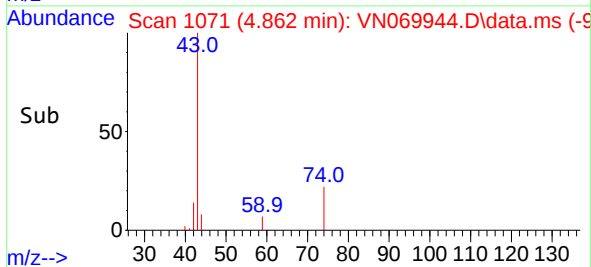
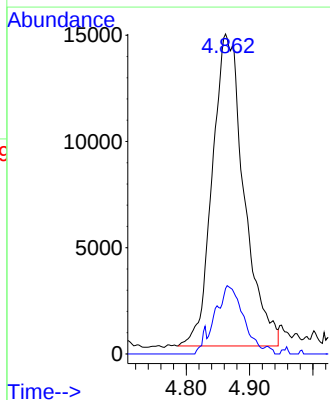
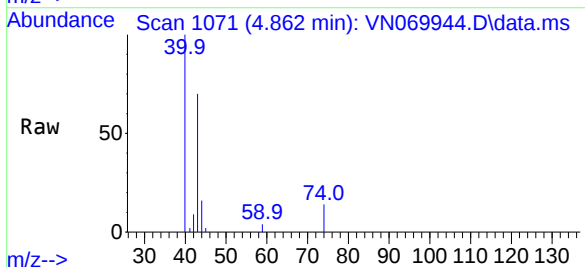
Instrument :
MSVOA_N
ClientSampleId :
P5-2

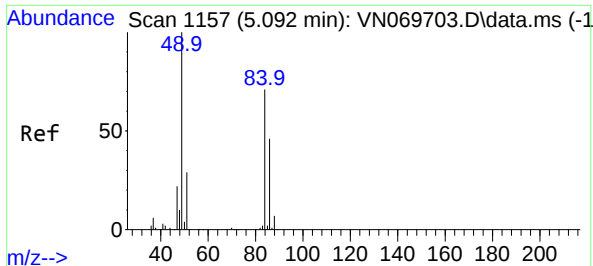
Tgt Ion: 43 Resp: 141855
Ion Ratio Lower Upper
43 100
58 27.2 23.1 34.7



#18
Methyl Acetate
Concen: 1.669 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.005 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

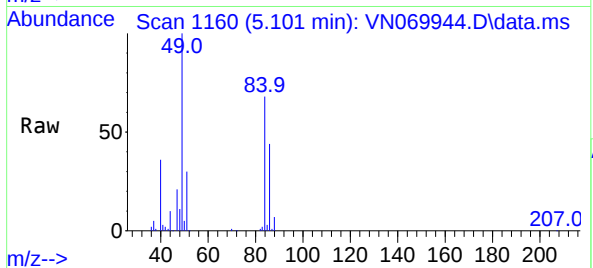
Tgt Ion: 43 Resp: 50979
Ion Ratio Lower Upper
43 100
74 14.1 19.4 29.2#



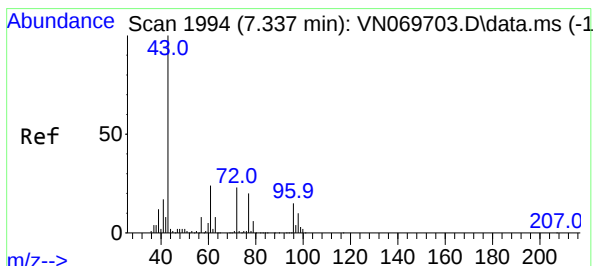
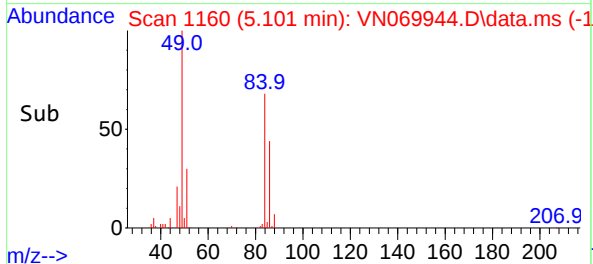
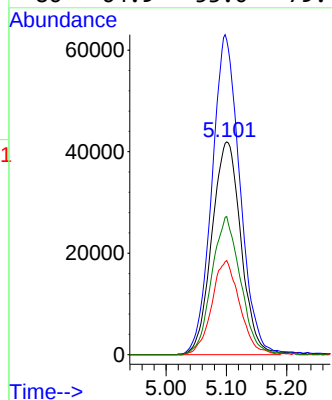


#20
Methylene Chloride
Concen: 10.451 ug/l
RT: 5.101 min Scan# 1157
Delta R.T. 0.008 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Instrument :
MSVOA_N
ClientSampleId :
P5-2

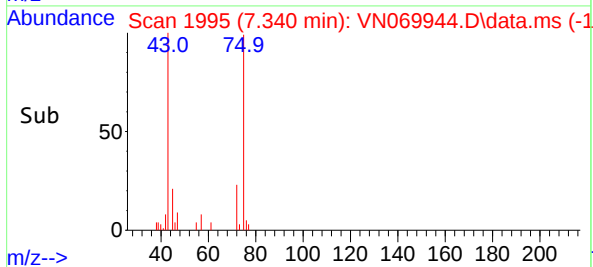
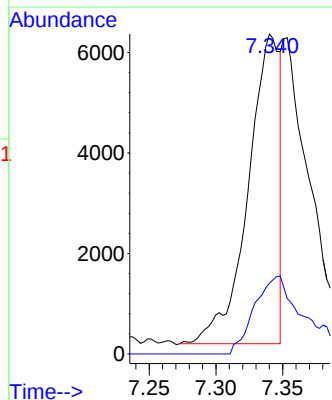
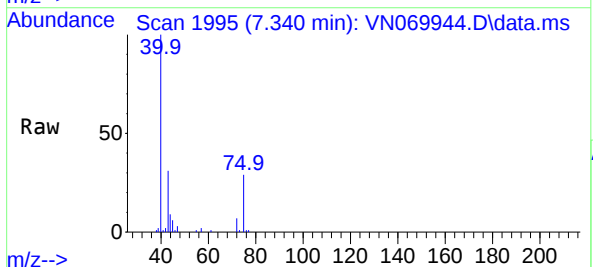


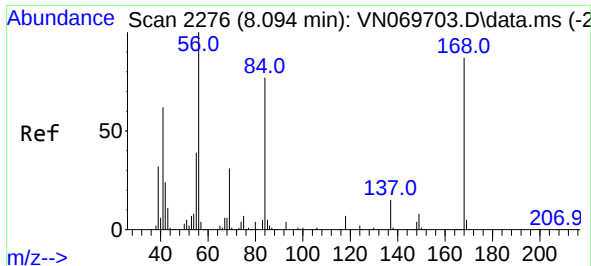
Tgt Ion:	84	Resp:	140548
Ion	Ratio	Lower	Upper
84	100		
49	147.4	93.5	140.3#
51	44.2	29.4	44.2#
86	64.9	53.0	79.4



#25
2-Butanone
Concen: 0.738 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.003 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion:	43	Resp:	10147
Ion	Ratio	Lower	Upper
43	100		
72	22.8	21.7	32.5

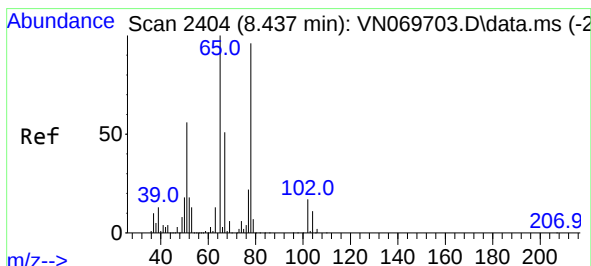
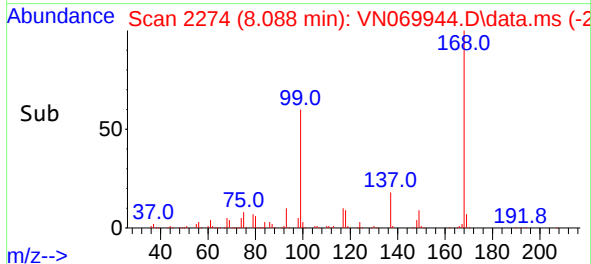
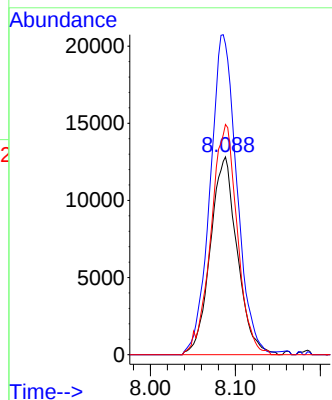
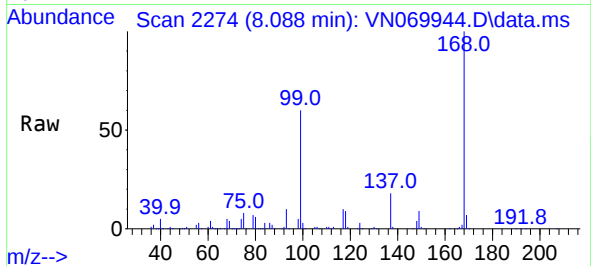




#31
Cyclohexane
Concen: 1.203 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

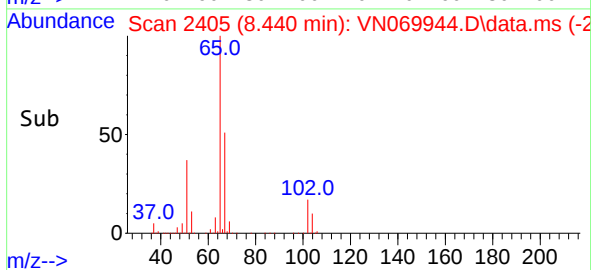
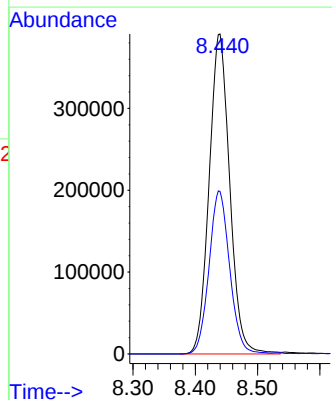
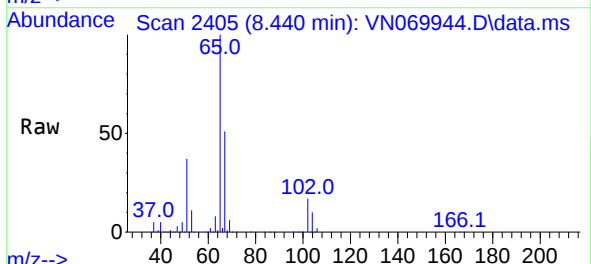
Instrument :
MSVOA_N
ClientSampleId :
P5-2

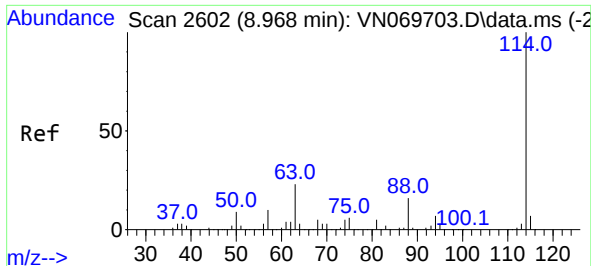
Tgt Ion: 56 Resp: 28163
Ion Ratio Lower Upper
56 100
69 157.0 27.1 40.7#
84 116.4 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 53.300 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 65 Resp: 896378
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.0

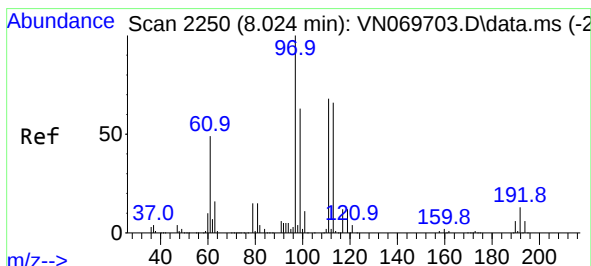
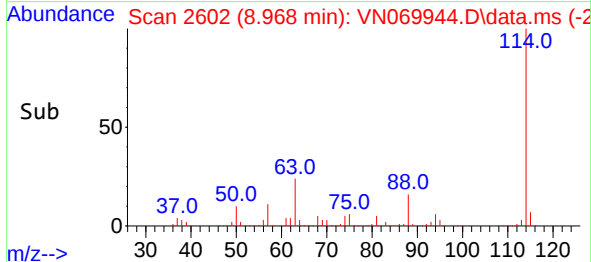
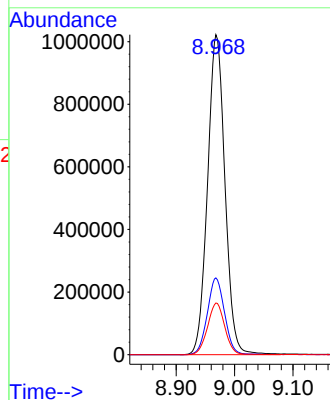
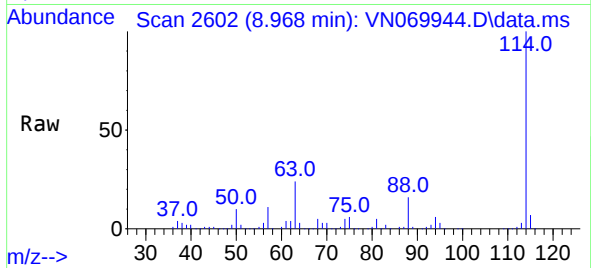




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

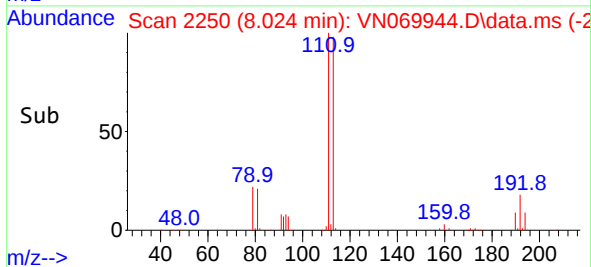
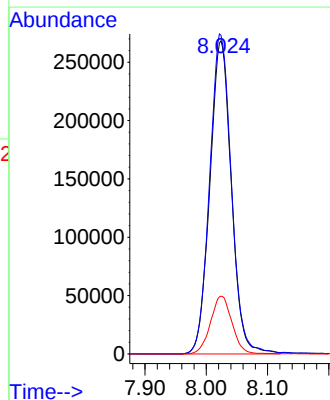
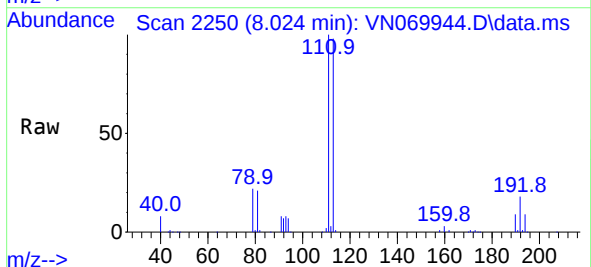
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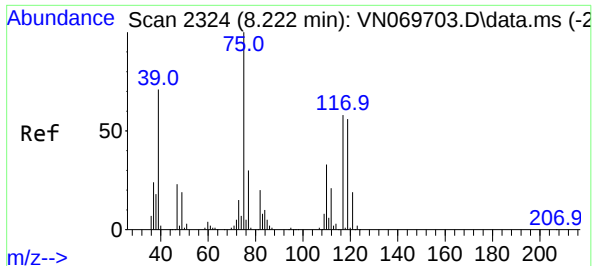
Tgt Ion:114 Resp: 2119521
Ion Ratio Lower Upper
114 100
63 24.0 0.0 37.8
88 16.2 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.305 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion:113 Resp: 654584
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 18.5 16.9 25.3

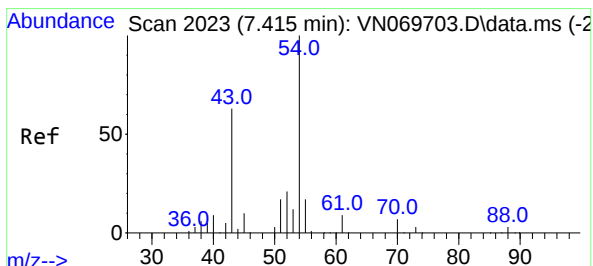
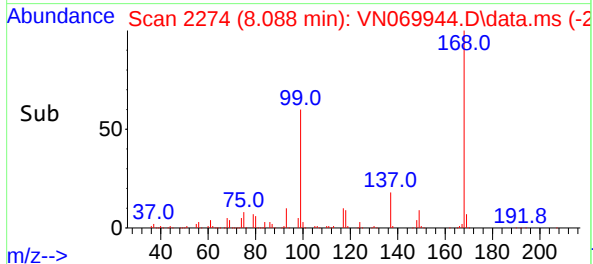
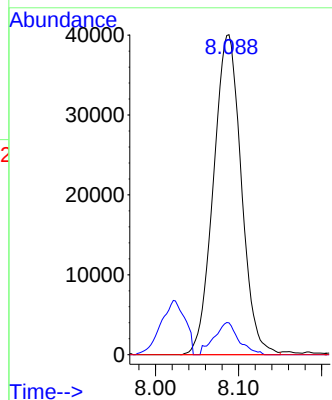
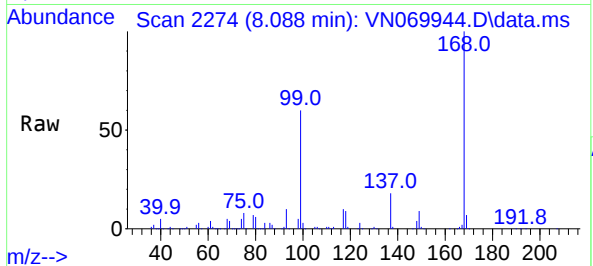




#36
1,1-Dichloropropene
Concen: 4.618 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.134 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

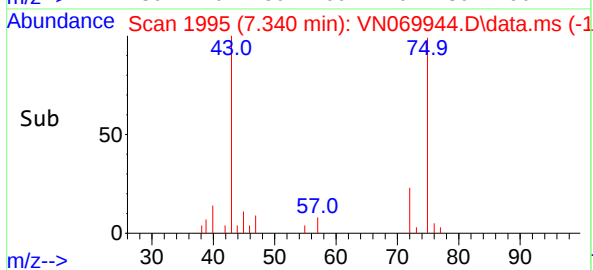
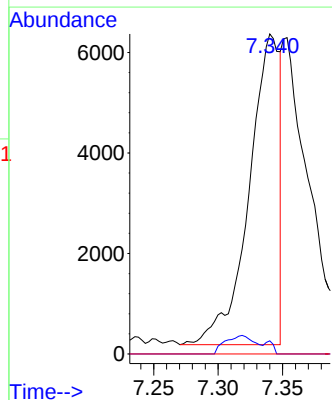
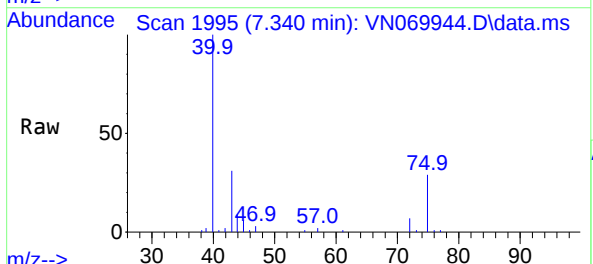
Instrument :
MSVOA_N
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P5-2

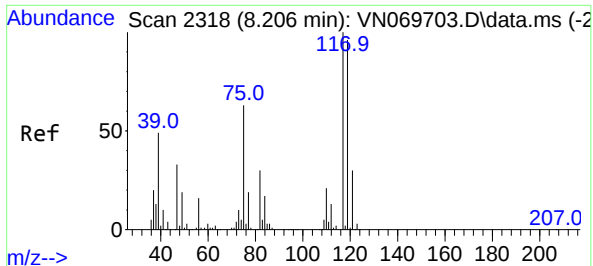
Tgt Ion: 75 Resp: 93177
Ion Ratio Lower Upper
75 100
110 8.9 18.4 55.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 0.341 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. -0.075 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 43 Resp: 10245
Ion Ratio Lower Upper
43 100
61 1.1 11.5 17.3#
70 0.0 7.9 11.9#

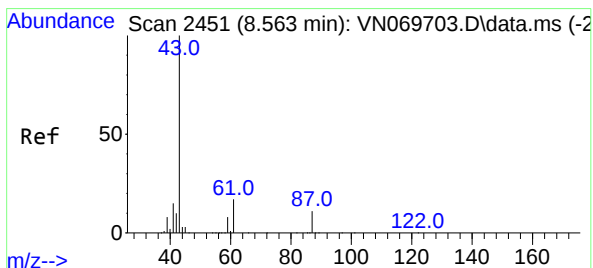
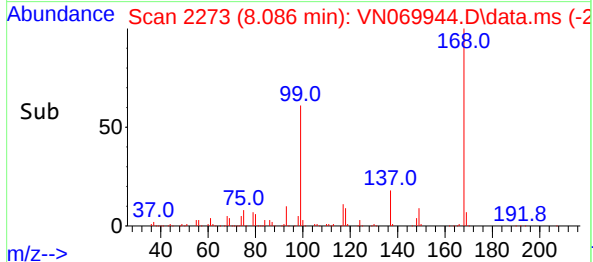
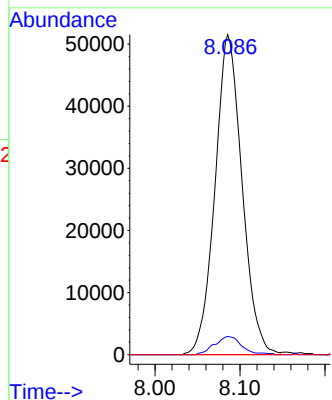
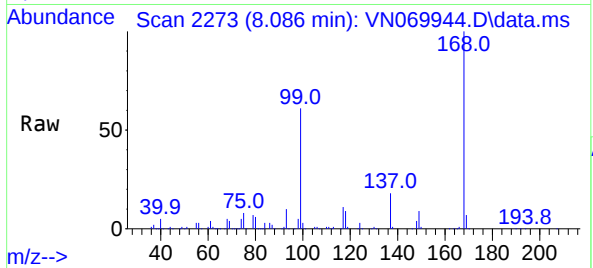




#38
Carbon Tetrachloride
Concen: 5.753 ug/l
RT: 8.086 min Scan# 2117
Delta R.T. -0.121 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

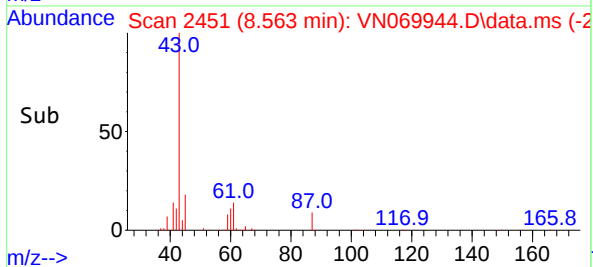
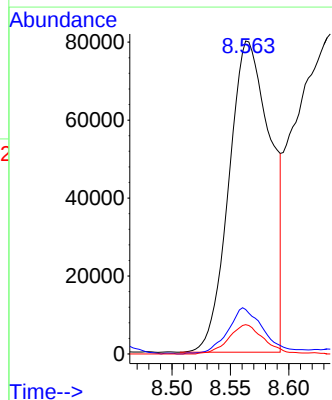
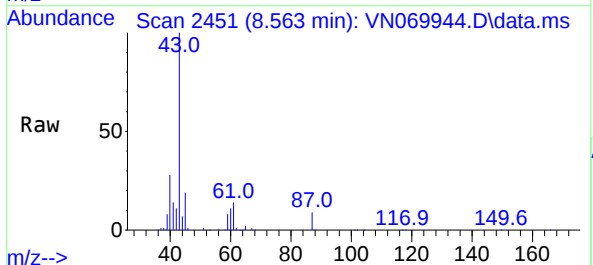
Instrument :
MSVOA_N
ClientSampleId :
P5-2

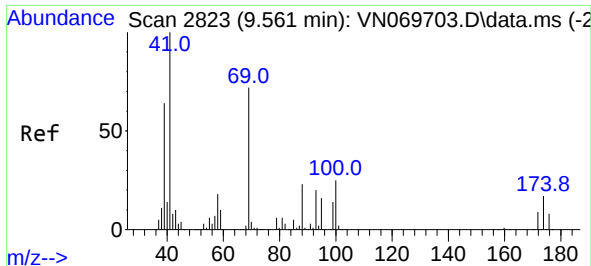
Tgt Ion:117 Resp: 113823
Ion Ratio Lower Upper
117 100
119 5.7 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 4.469 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.000 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 43 Resp: 198607
Ion Ratio Lower Upper
43 100
61 13.1 20.4 30.6#
87 7.9 11.2 16.8#

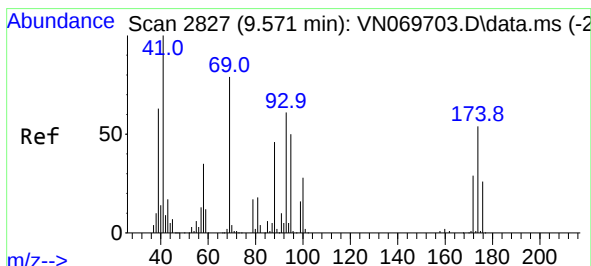
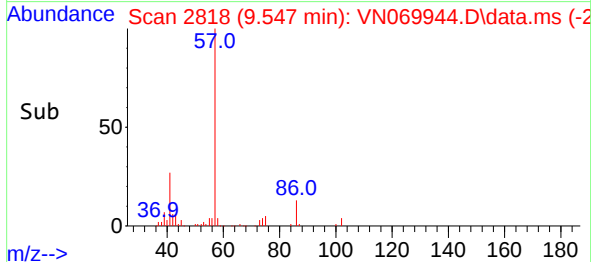
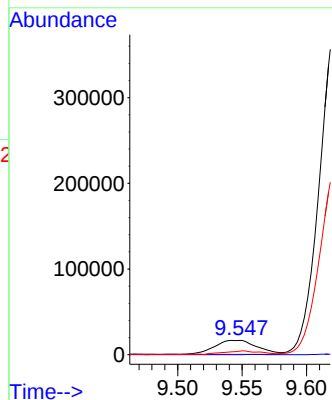
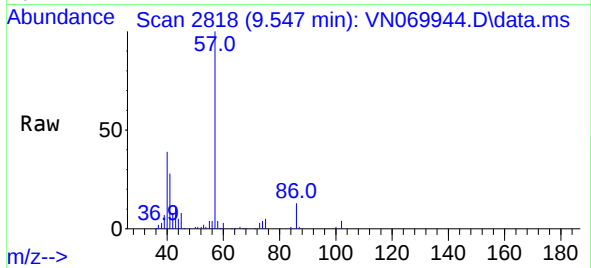




#48
Methyl methacrylate
Concen: 1.783 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

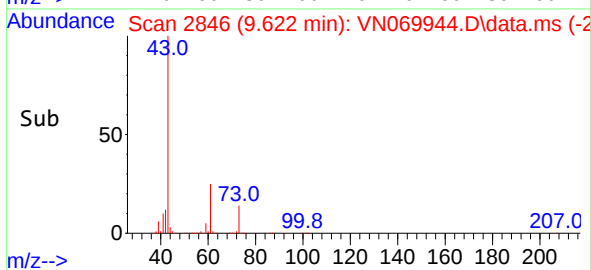
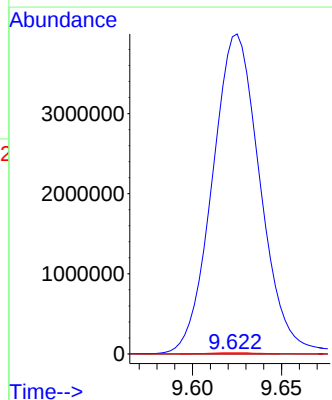
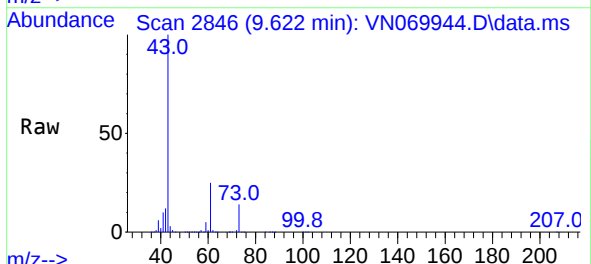
Instrument :
MSVOA_N
ClientSampleId :
P5-2

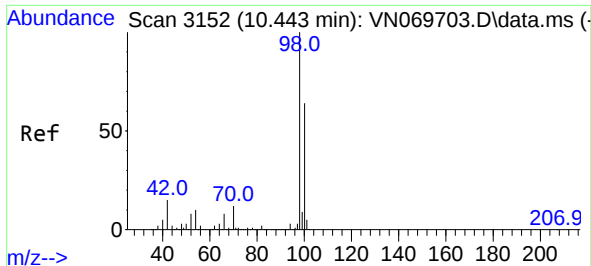
Tgt Ion: 41 Resp: 36979
Ion Ratio Lower Upper
41 100
69 0.5 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 2.741 ug/l
RT: 9.622 min Scan# 2846
Delta R.T. 0.051 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 88 Resp: 1020
Ion Ratio Lower Upper
88 100
43 743445.8 23.4 35.2#
58 2849.6 50.6 75.8#

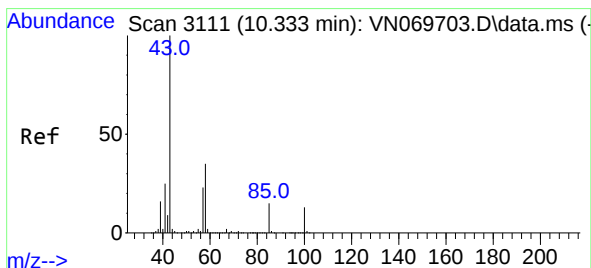
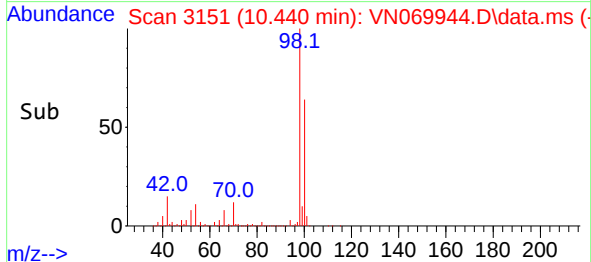
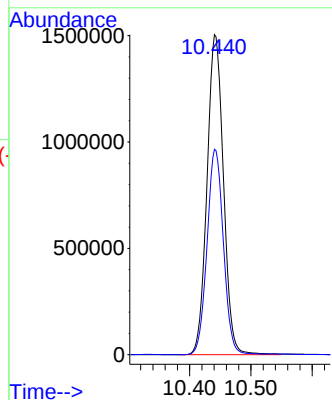
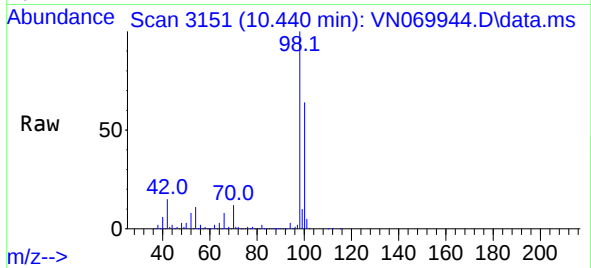




#50
Toluene-d8
Concen: 52.694 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

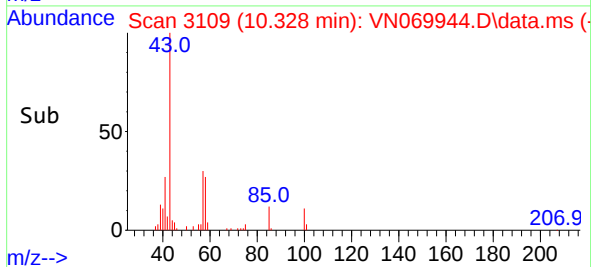
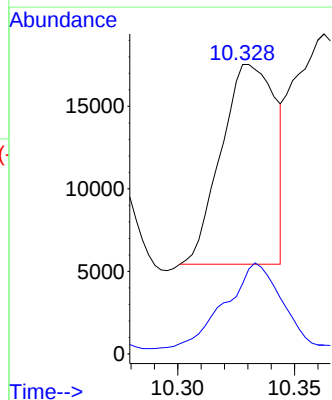
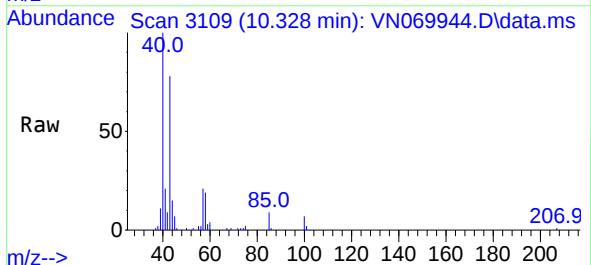
Instrument :
MSVOA_N
ClientSampleId :
P5-2

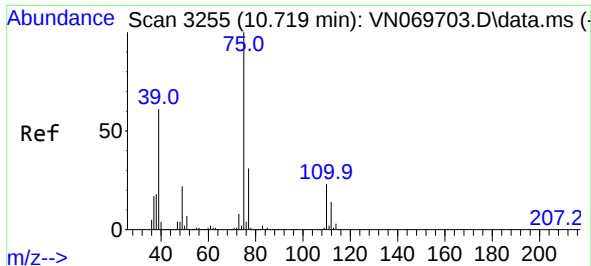
Tgt Ion: 98 Resp: 2809017
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.681 ug/l
RT: 10.328 min Scan# 3109
Delta R.T. -0.005 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 43 Resp: 19635
Ion Ratio Lower Upper
43 100
58 47.8 30.4 45.6#

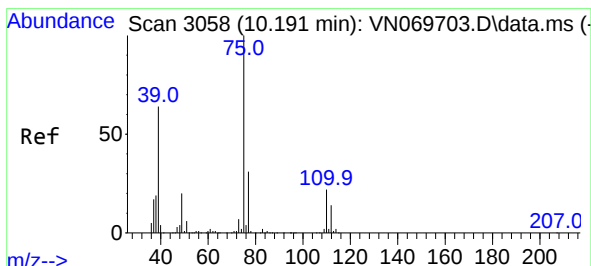
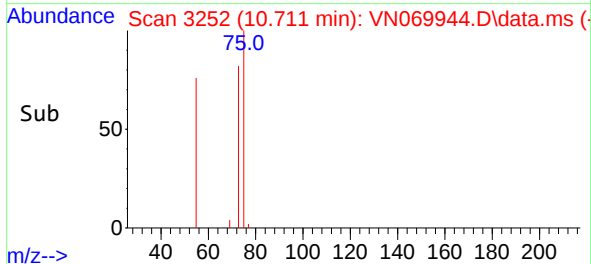
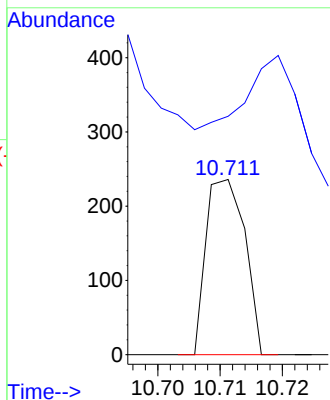
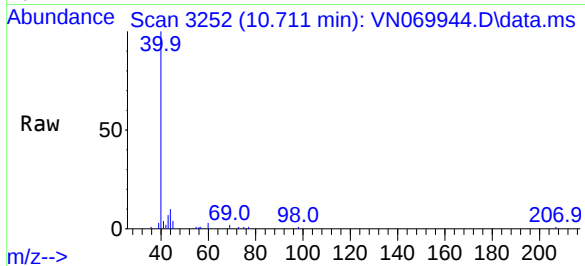




#53
t-1,3-Dichloropropene
Concen: 2.798 ug/l
RT: 10.711 min Scan# 31
Delta R.T. -0.008 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

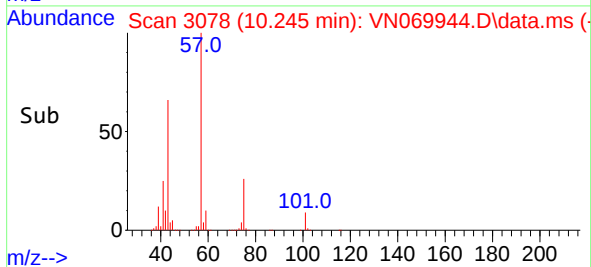
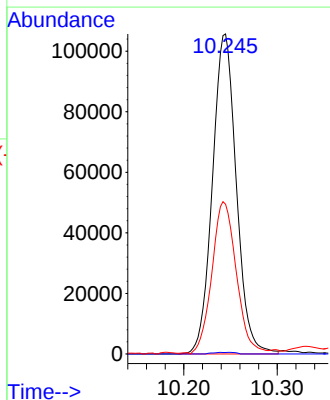
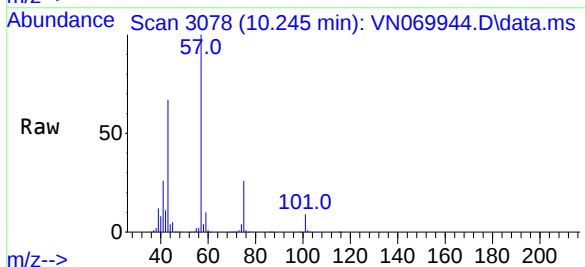
Instrument :
MSVOA_N
ClientSampleId :
P5-2

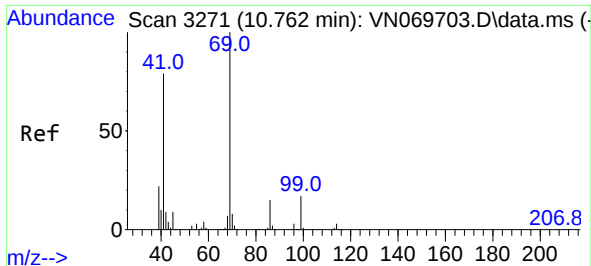
Tgt Ion: 75 Resp: 102
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 8.949 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 75 Resp: 187960
Ion Ratio Lower Upper
75 100
77 0.5 26.4 39.6#
39 46.6 42.5 63.7

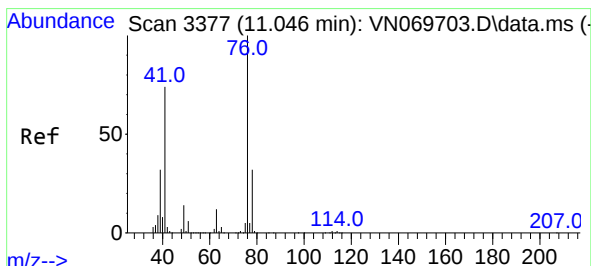
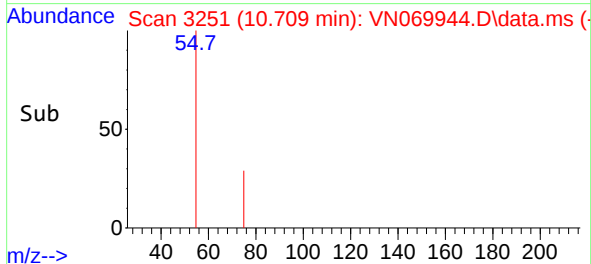
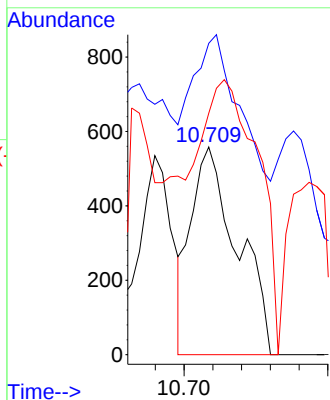
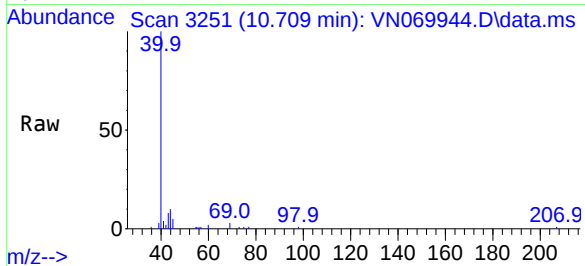




#56
Ethyl methacrylate
Concen: 2.300 ug/l
RT: 10.709 min Scan# 31
Delta R.T. -0.053 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

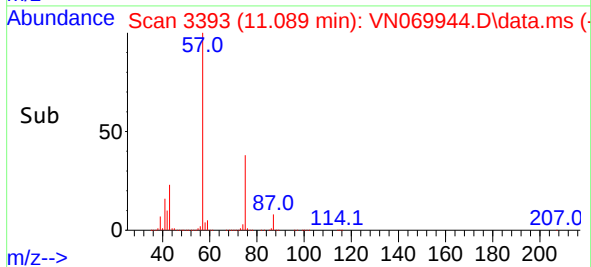
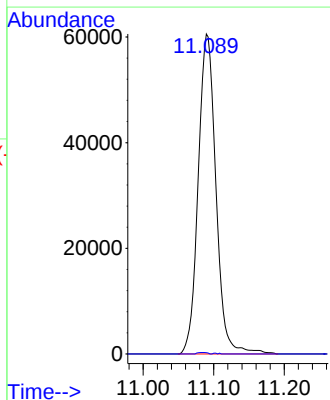
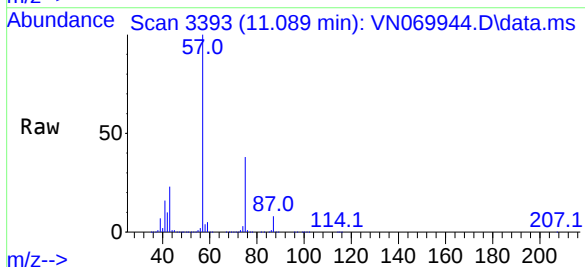
Instrument :
MSVOA_N
ClientSampleId :
P5-2

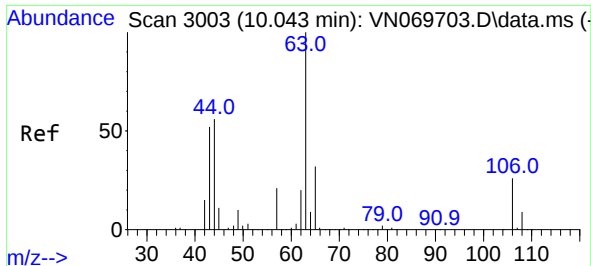
Tgt Ion: 69 Resp: 624
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 0.0 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 3.956 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.043 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 76 Resp: 105818
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

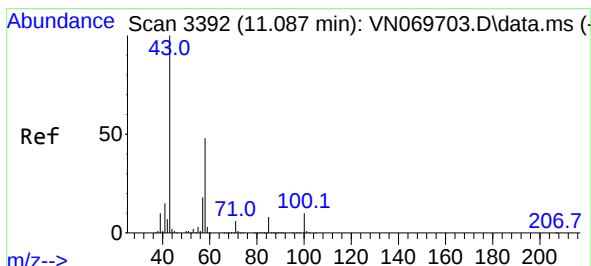
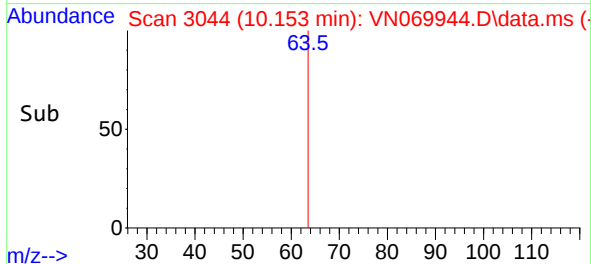
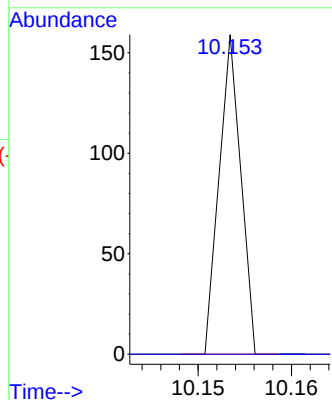
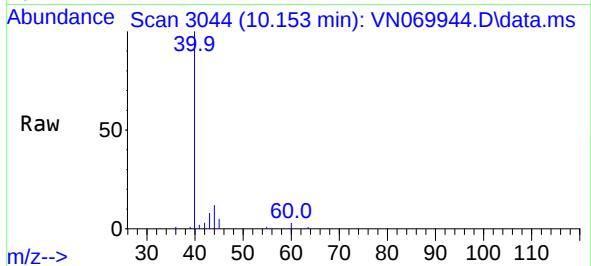




#58
2-Chloroethyl Vinyl ether
Concen: 18.392 ug/l
RT: 10.153 min Scan# 3003
Delta R.T. 0.110 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

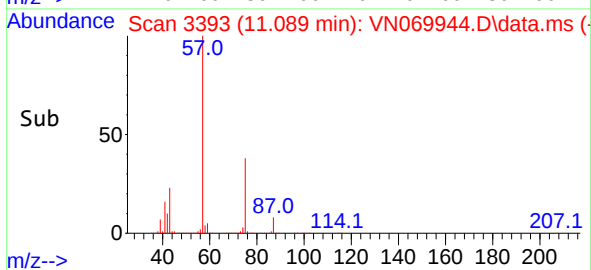
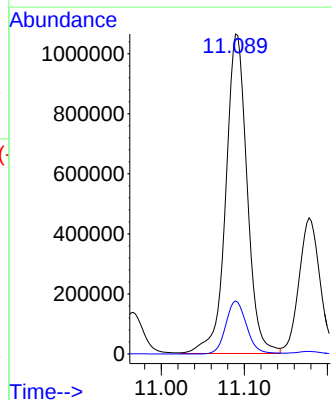
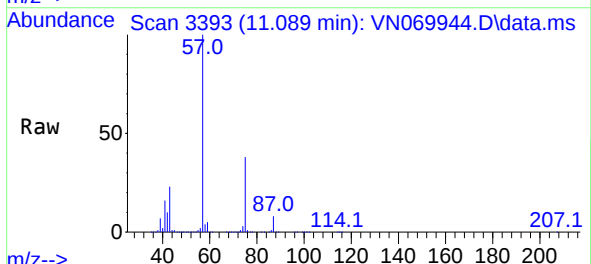
Instrument :
MSVOA_N
ClientSampleId :
P5-2

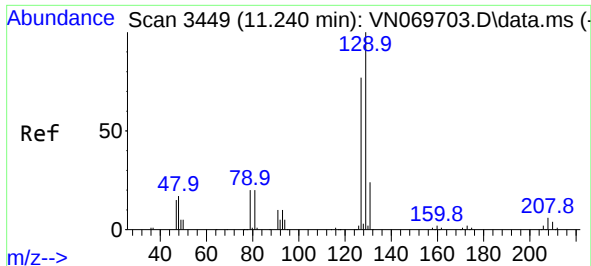
Tgt Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 87.221 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.002 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 43 Resp: 1902210
Ion Ratio Lower Upper
43 100
58 16.2 26.9 80.7#

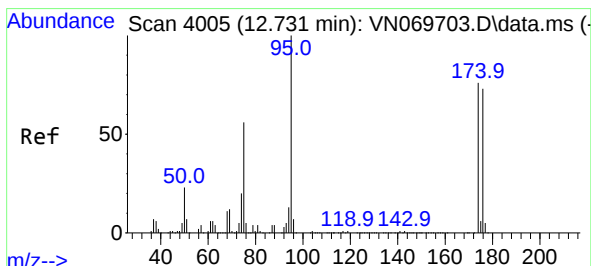
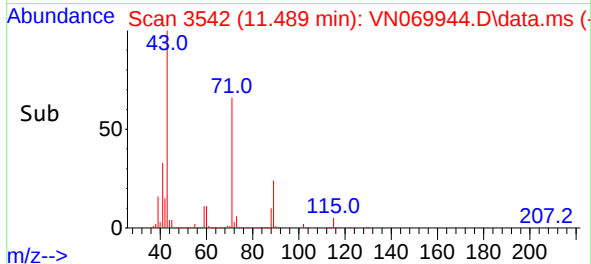
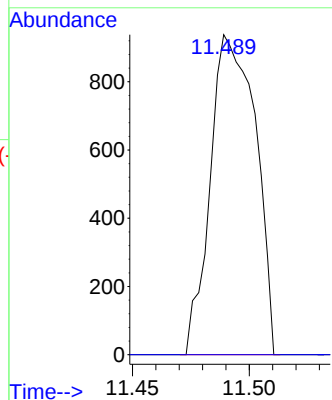
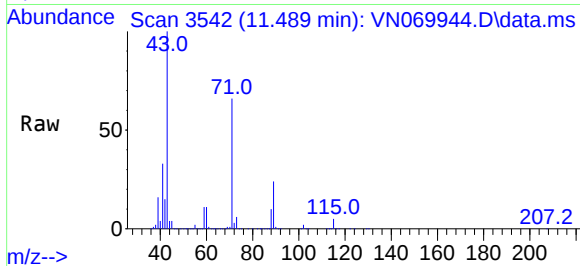




#60
Dibromochloromethane
Concen: 2.450 ug/l
RT: 11.489 min Scan# 311
Delta R.T. 0.249 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

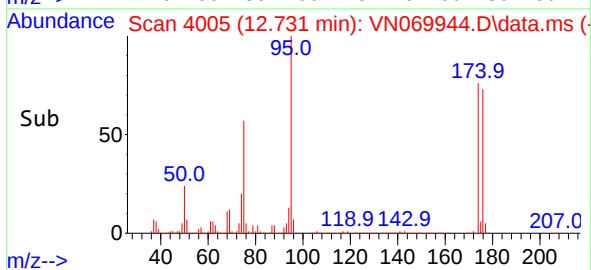
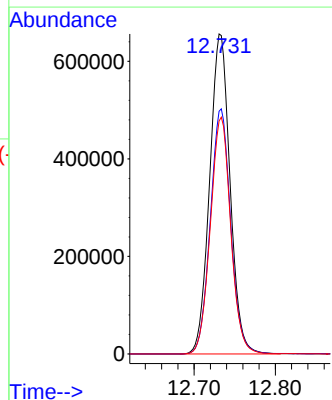
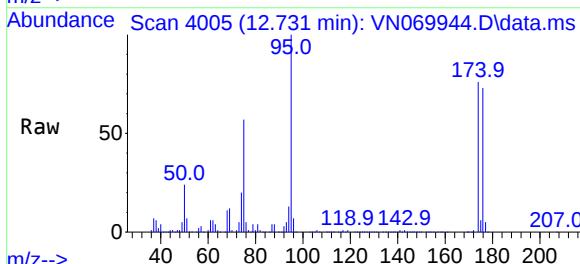
Instrument :
MSVOA_N
ClientSampleId :
P5-2

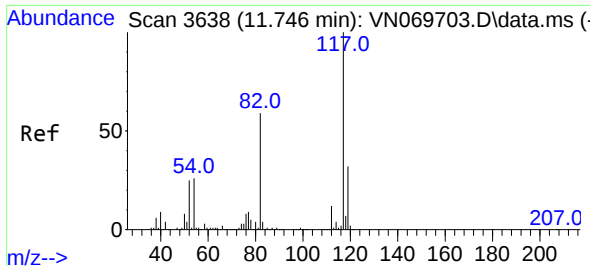
Tgt Ion:129 Resp: 1263
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 59.187 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

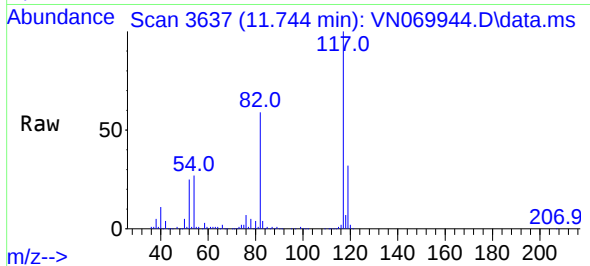
Tgt Ion: 95 Resp: 1143046
Ion Ratio Lower Upper
95 100
174 76.8 0.0 187.2
176 73.9 0.0 181.4





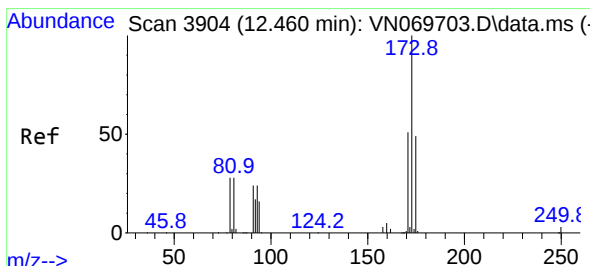
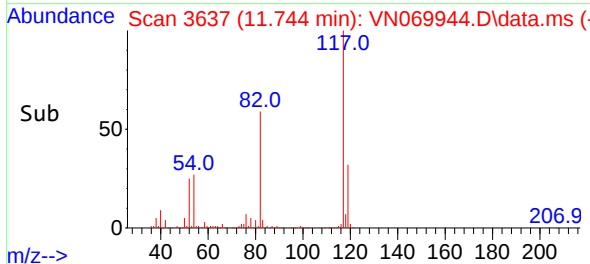
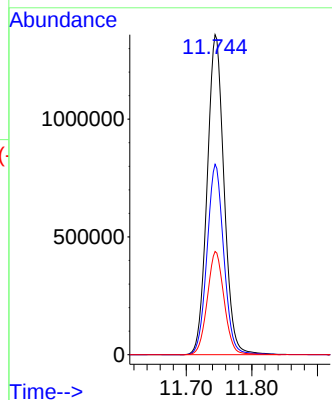
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Instrument :
MSVOA_N
ClientSampleId :
P5-2



Tgt Ion:117 Resp: 2430668

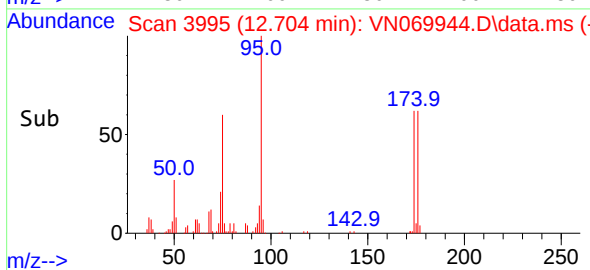
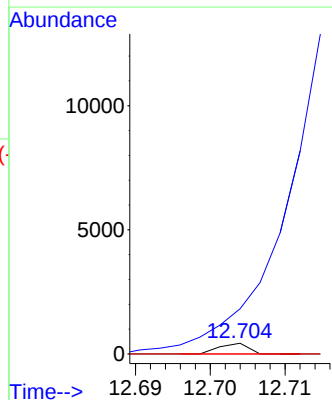
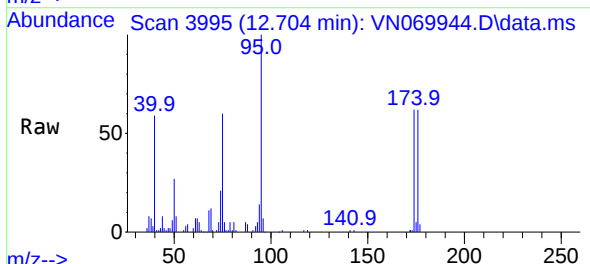
Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	32.2	25.4	38.2

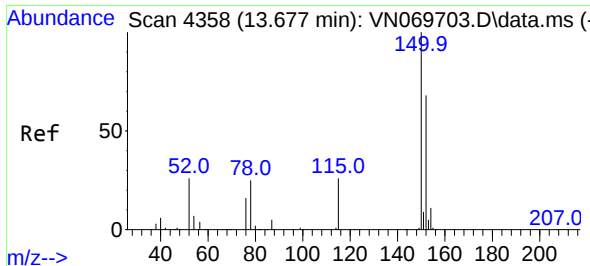


#71
Bromoform
Concen: 2.738 ug/l
RT: 12.704 min Scan# 3995
Delta R.T. 0.244 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion:173 Resp: 116

Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.2	72.6#
254	0.0	0.0	0.0

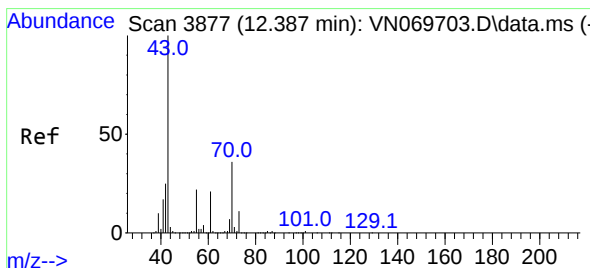
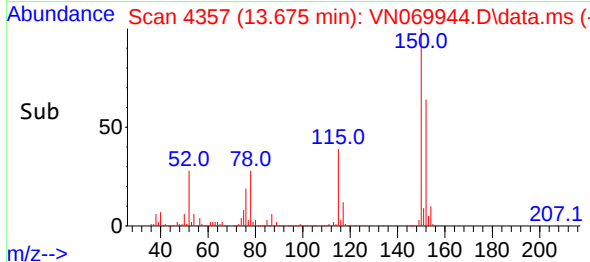
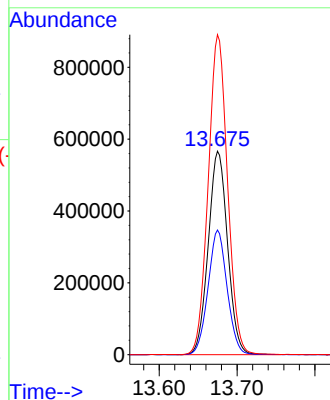
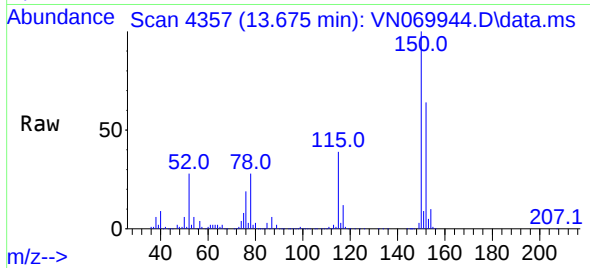




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

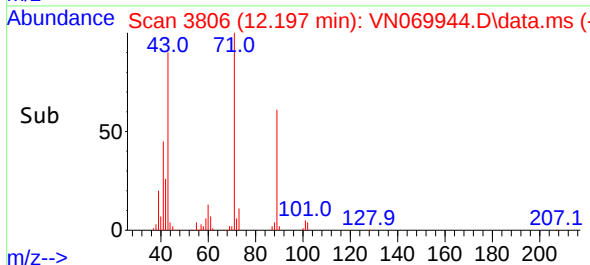
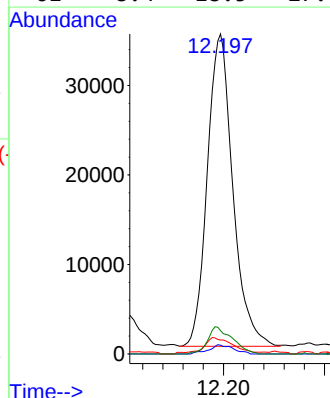
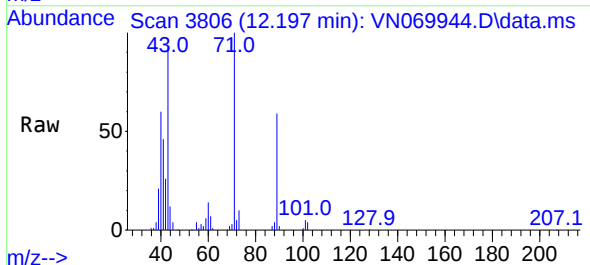
Instrument :
MSVOA_N
ClientSampleId :
P5-2

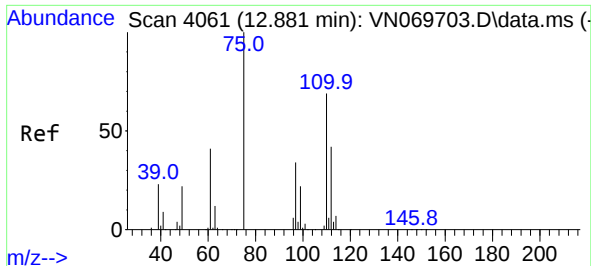
Tgt Ion:152 Resp: 977868
Ion Ratio Lower Upper
152 100
115 60.5 27.5 82.5
150 157.1 0.0 344.4



#74
N-ethyl acetate
Concen: 1.594 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.190 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 43 Resp: 61321
Ion Ratio Lower Upper
43 100
70 2.8 33.4 50.0#
55 6.1 19.3 28.9#
61 8.4 18.5 27.7#

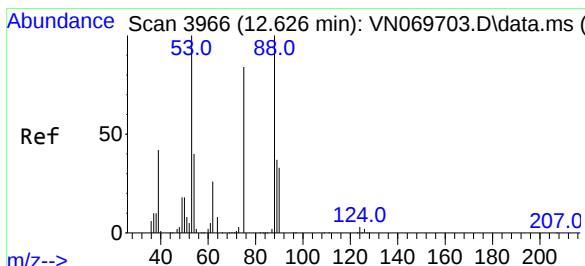
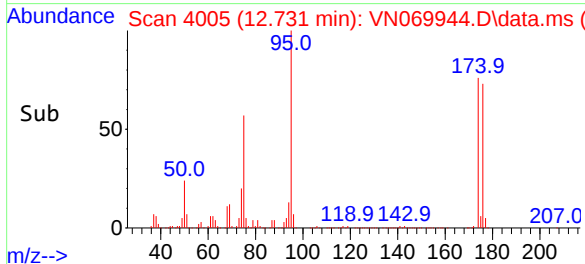
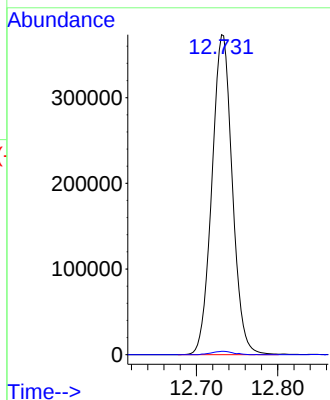
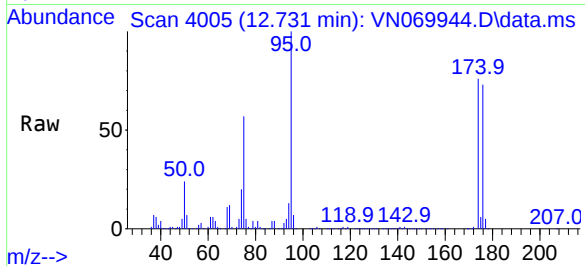




#76
1,2,3-Trichloropropane
Concen: 23.241 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

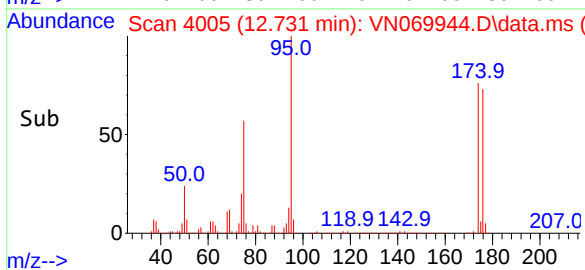
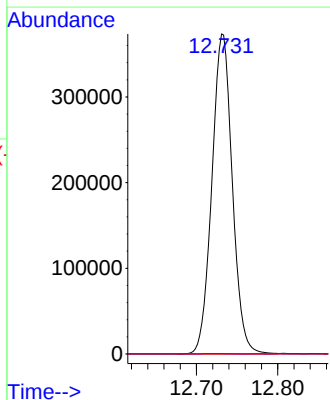
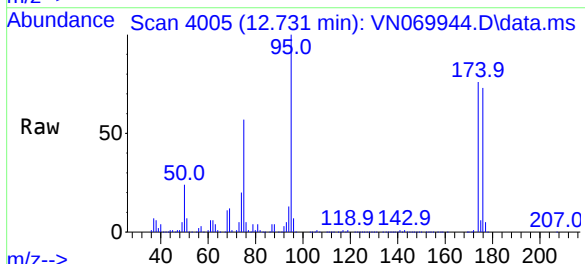
Instrument :
MSVOA_N
ClientSampleId :
P5-2

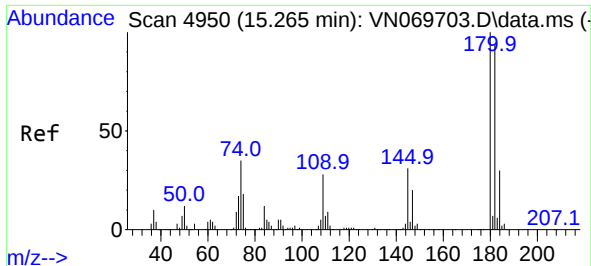
Tgt Ion: 75 Resp: 651754
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.949 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

Tgt Ion: 75 Resp: 651754
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

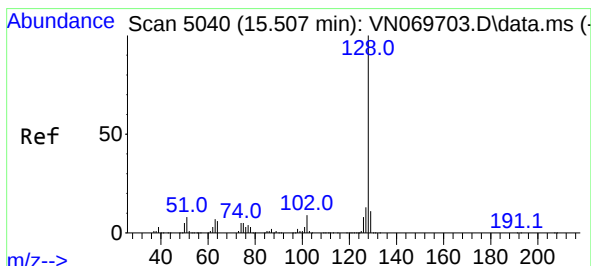
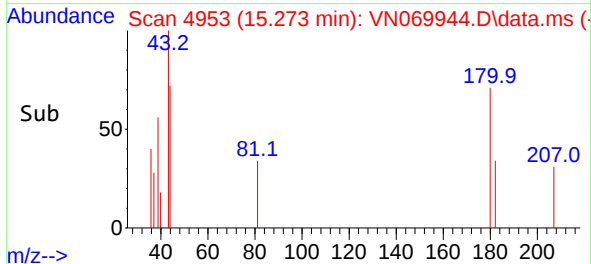
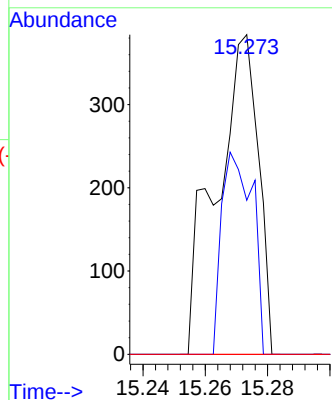
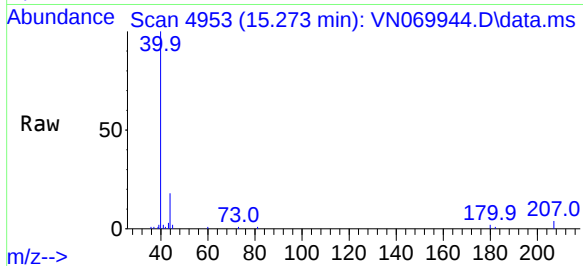




#93
1,2,4-Trichlorobenzene
Concen: 2.899 ug/l
RT: 15.273 min Scan# 4950
Delta R.T. 0.008 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

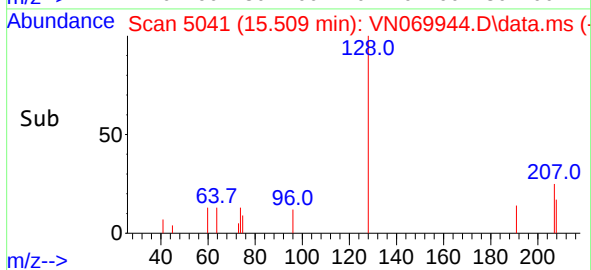
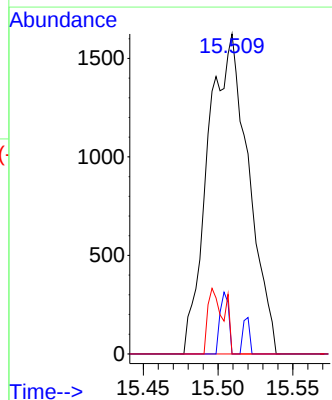
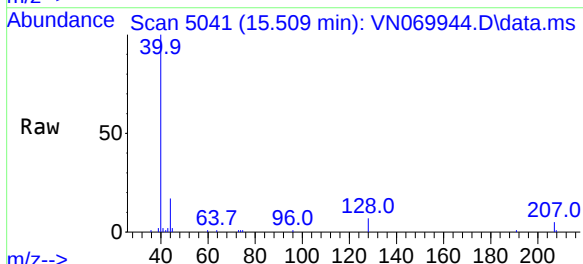
Instrument :
MSVOA_N
ClientSampleId :
P5-2

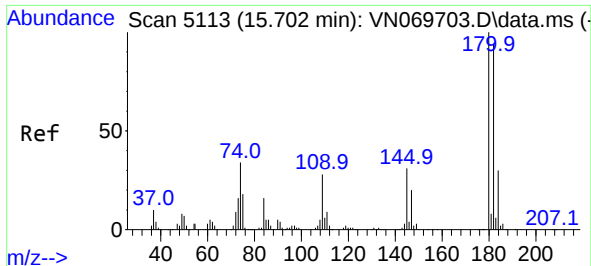
Tgt Ion:180 Resp: 362
Ion Ratio Lower Upper
180 100
182 46.1 48.3 144.9#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.044 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069944.D
Acq: 10 Dec 2021 5:54

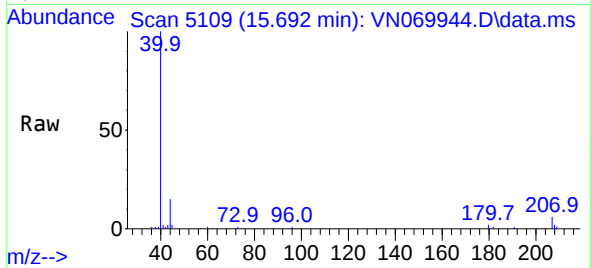
Tgt Ion:128 Resp: 3065
Ion Ratio Lower Upper
128 100
127 4.1 10.5 15.7#
129 8.1 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.446 ug/l
 RT: 15.692 min Scan# 51
 Delta R.T. -0.010 min
 Lab File: VN069944.D
 Acq: 10 Dec 2021 5:54

Instrument :
 MSVOA_N
 ClientSampleId :
 P5-2



Tgt Ion:180 Resp: 170
 Ion Ratio Lower Upper
 180 100
 182 136.5 47.4 142.2
 145 0.0 15.0 45.1#

