

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100621\
 Data File : VN068820.D
 Acq On : 6 Oct 2021 15:52
 Operator : JC/MD
 Sample : VN1006WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1006WBL01

Quant Time: Oct 07 06:01:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 06 14:41:09 2021
 Response via : Initial Calibration

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

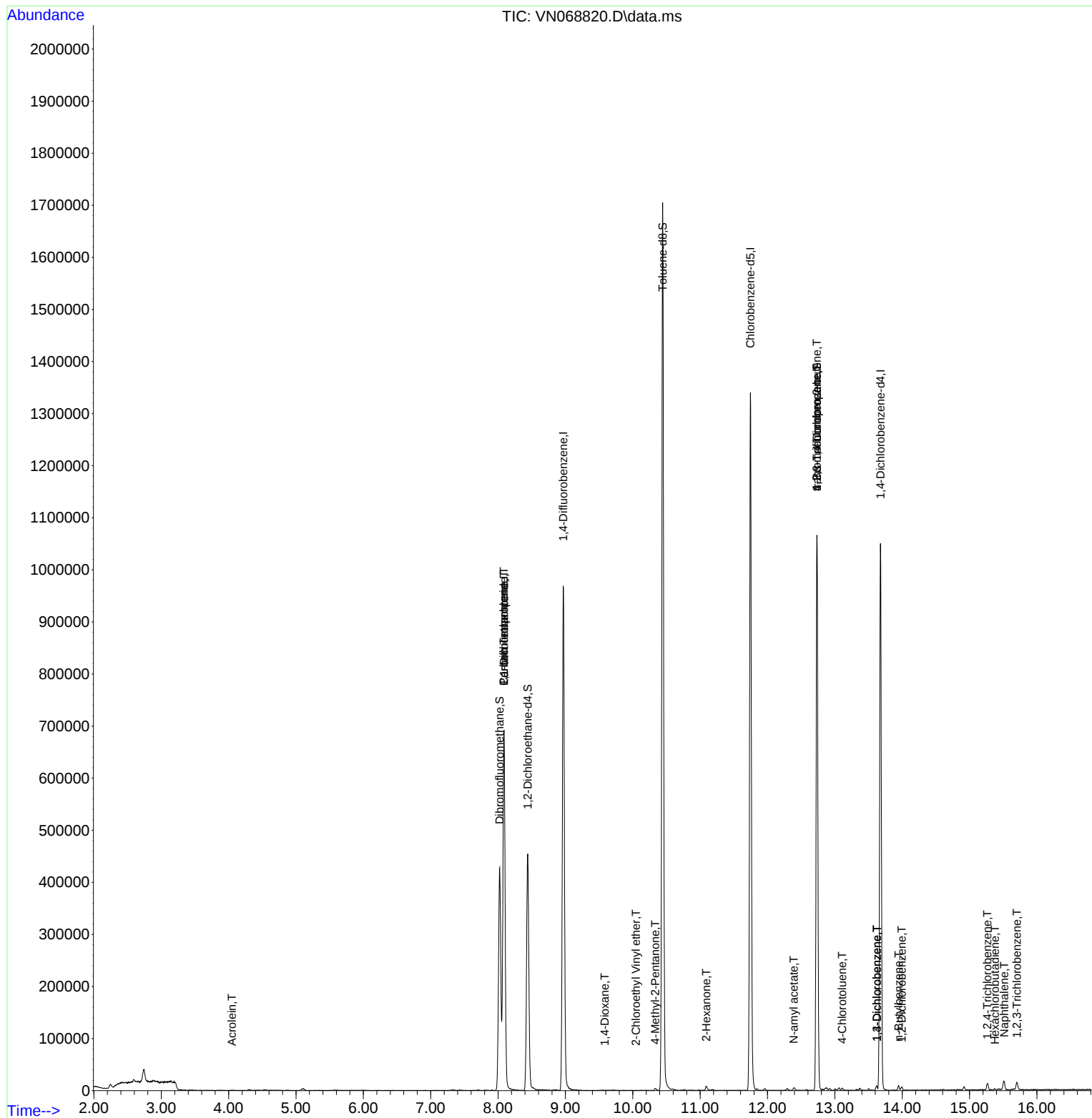
Internal Standards						
1) Pentafluorobenzene	8.088	168	499703	50.00	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.968	114	854245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	757404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	272678	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	387674	52.79	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 105.58%			
35) Dibromofluoromethane	8.021	113	300097	53.48	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 106.96%			
50) Toluene-d8	10.443	98	1187159	54.25	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 108.50%			
62) 4-Bromofluorobenzene	12.733	95	343249	42.32	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 84.64%			
Target Compounds						
3) Chloromethane	2.306	50	1190	Below Cal	#	87
4) Vinyl Chloride	2.440	62	239	Below Cal	#	44
6) Chloroethane	3.043	64	143	Below Cal	#	1
13) Acrolein	4.047	56	180	0.38	ug/l	# 14
16) Acetone	4.299	43	1441	Below Cal		98
17) Carbon Disulfide	4.537	76	1421	Below Cal	#	74
20) Methylene Chloride	5.106	84	2160	Below Cal	#	67
21) trans-1,2-Dichloroethene	5.605	96	50	Below Cal	#	2
31) Cyclohexane	8.083	56	14640	Below Cal	#	48
36) 1,1-Dichloropropene	8.088	75	43620	6.46	ug/l	# 53
38) Carbon Tetrachloride	8.088	117	54770	6.73	ug/l	# 16
49) 1,4-Dioxane	9.582	88	230	2.11	ug/l	# 20
51) 4-Methyl-2-Pentanone	10.336	43	2736	0.37	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.046	63	85	32.86	ug/l	# 50
59) 2-Hexanone	11.092	43	5672	1.05	ug/l	95
74) N-amyl acetate	12.390	43	3463	0.48	ug/l	# 88
76) 1,2,3-Trichloropropane	12.733	75	203851	37.92	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.733	75	203851	109.87	ug/l	# 6
82) 4-Chlorotoluene	13.109	91	3432	0.24	ug/l	74
87) 1,3-Dichlorobenzene	13.624	146	2624	0.29	ug/l	83
88) 1,4-Dichlorobenzene	13.624	146	2624	0.29	ug/l	84
89) n-Butylbenzene	13.948	91	5431	0.35	ug/l	90
91) 1,2-Dichlorobenzene	13.994	146	3321	0.37	ug/l	68
93) 1,2,4-Trichlorobenzene	15.265	180	4064	1.00	ug/l	83
94) Hexachlorobutadiene	15.375	225	604	0.28	ug/l	# 63
95) Naphthalene	15.515	128	16990	1.57	ug/l	# 90
96) 1,2,3-Trichlorobenzene	15.702	180	5514	1.27	ug/l	# 60

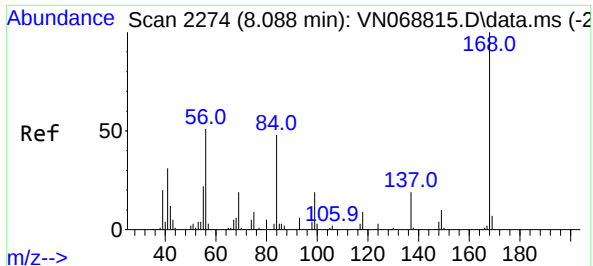
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

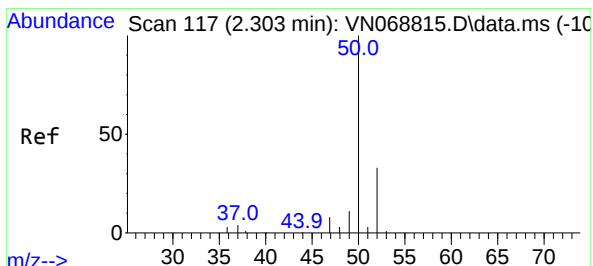
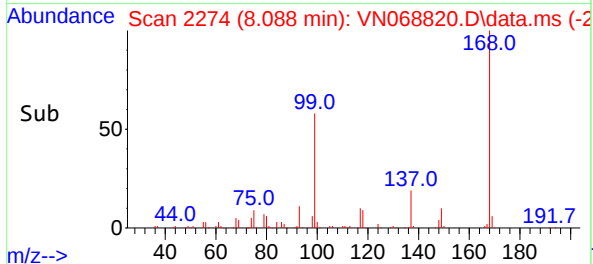
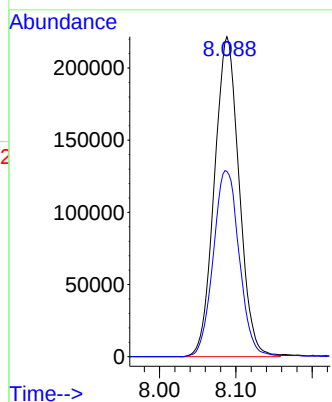
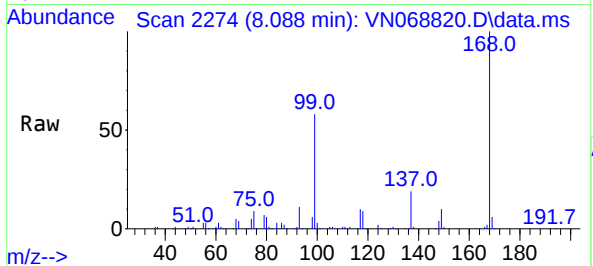




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

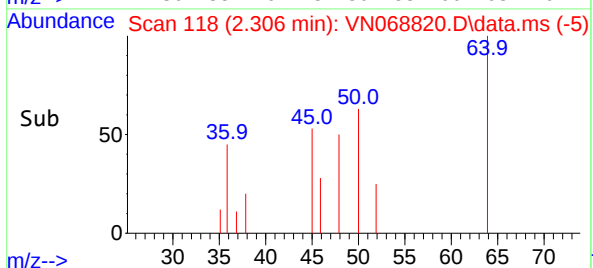
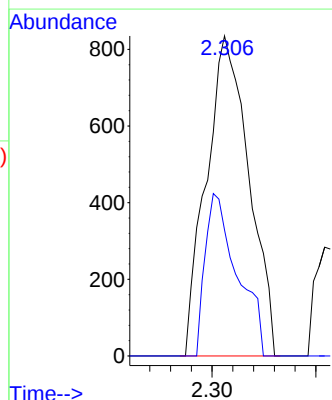
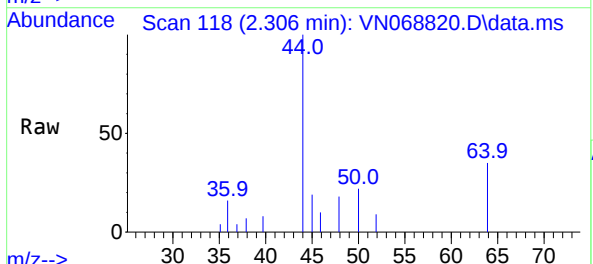
Instrument :
MSVOA_N
ClientSampled :
VN1006WBL01

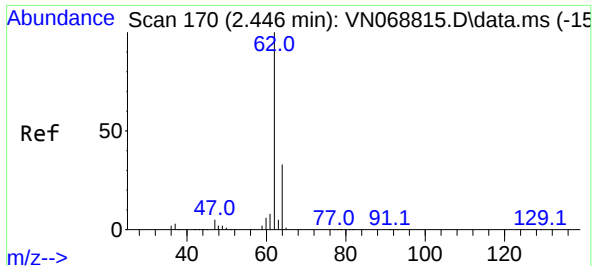
Tgt Ion:168 Resp: 499703
Ion Ratio Lower Upper
168 100
99 57.9 62.9 94.3#



#3
Chloromethane
Concen: Below Cal
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 50 Resp: 1190
Ion Ratio Lower Upper
50 100
52 39.4 25.6 38.4#

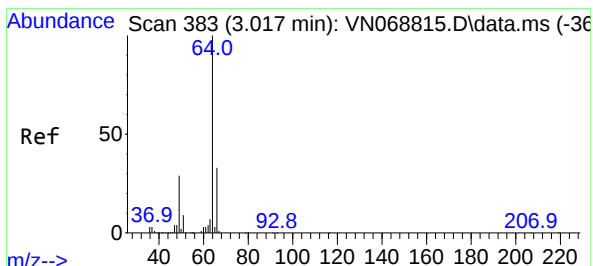
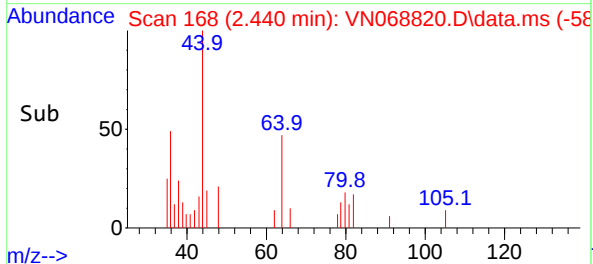
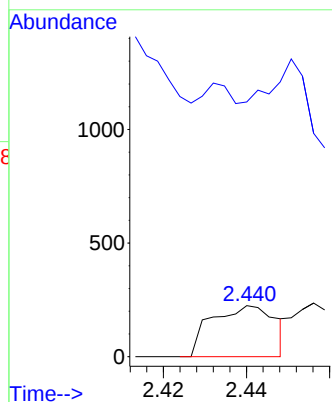
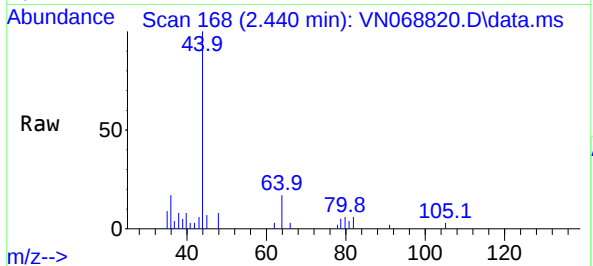




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.440 min Scan# 168
 Delta R.T. -0.006 min
 Lab File: VN068820.D
 Acq: 6 Oct 2021 15:52

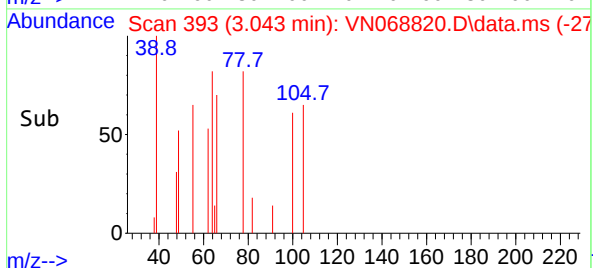
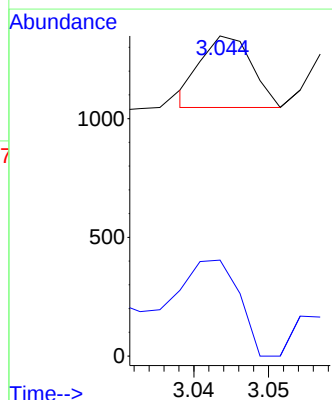
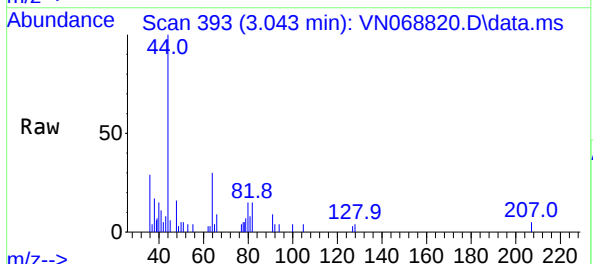
Instrument :
 MSVOA_N
 ClientSampled :
 VN1006WBL01

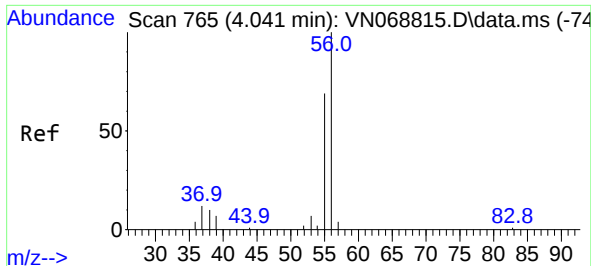
Tgt Ion: 62 Resp: 239
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.4 36.6#



#6
 Chloroethane
 Concen: Below Cal
 RT: 3.043 min Scan# 393
 Delta R.T. 0.026 min
 Lab File: VN068820.D
 Acq: 6 Oct 2021 15:52

Tgt Ion: 64 Resp: 143
 Ion Ratio Lower Upper
 64 100
 66 134.2 24.7 37.1#

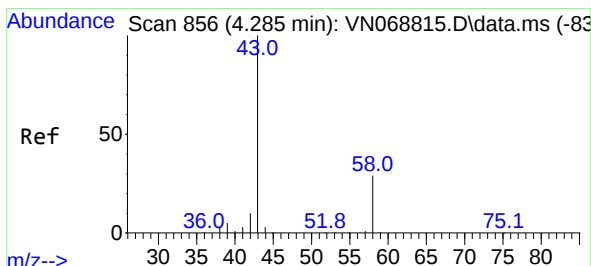
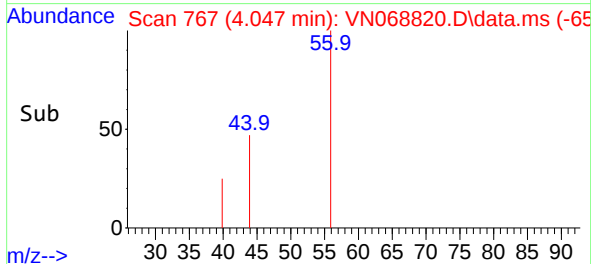
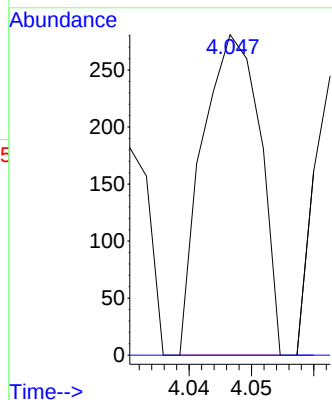
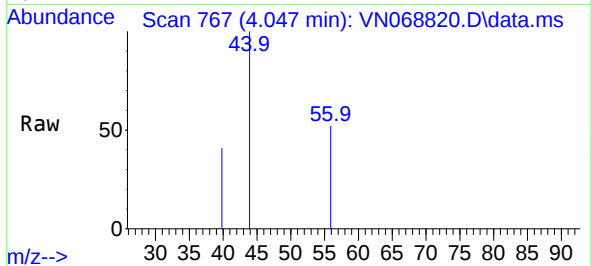




#13
Acrolein
Concen: 0.38 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.006 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

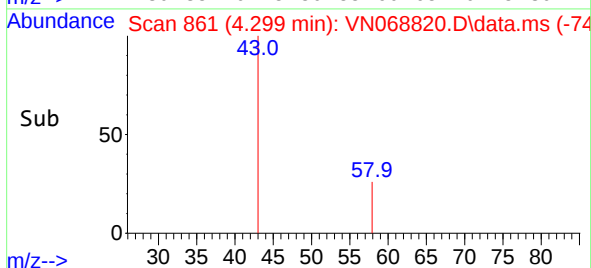
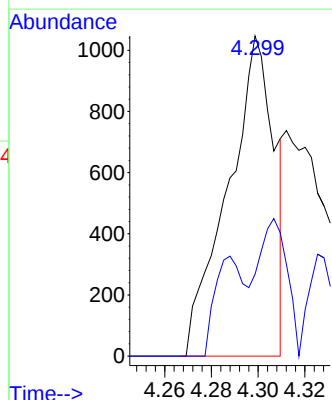
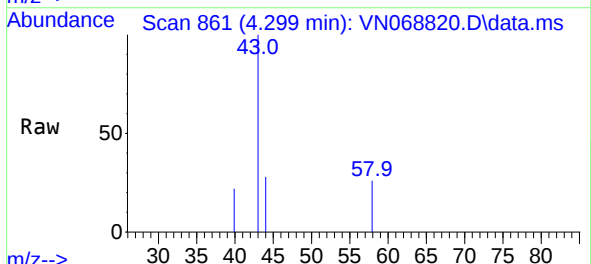
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

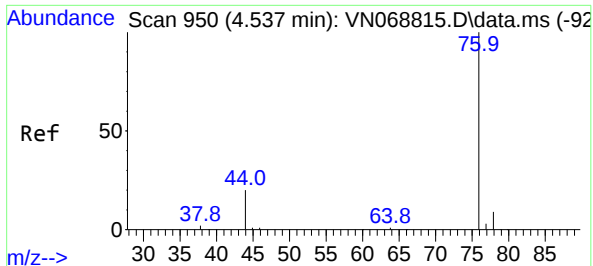
Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: Below Cal
RT: 4.299 min Scan# 861
Delta R.T. 0.014 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 43 Resp: 1441
Ion Ratio Lower Upper
43 100
58 25.6 21.2 31.8

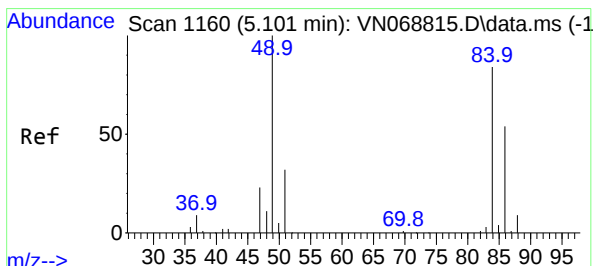
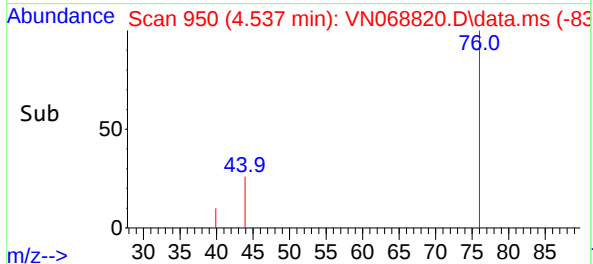
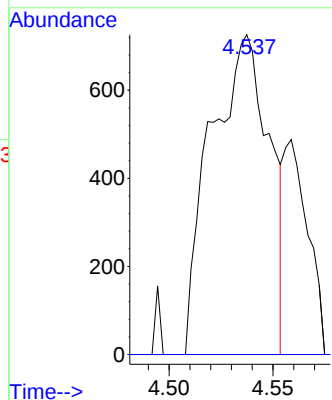
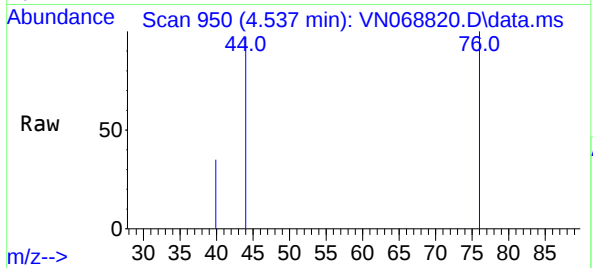




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.537 min Scan# 950
Delta R.T. 0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

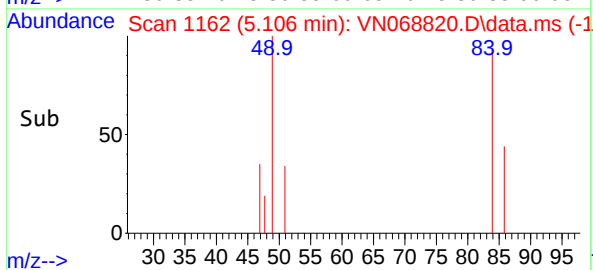
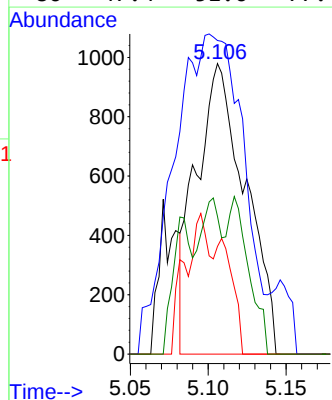
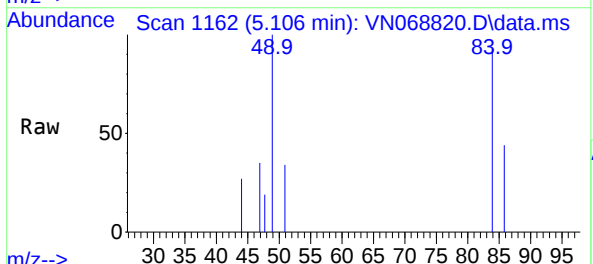
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

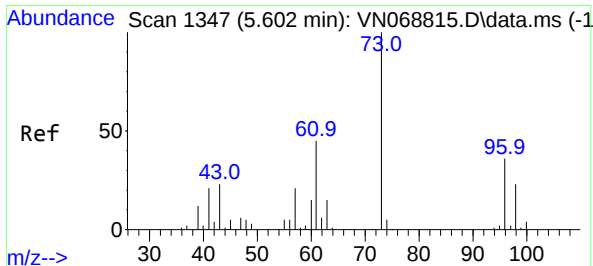
Tgt Ion: 76 Resp: 1421
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.106 min Scan# 1162
Delta R.T. 0.005 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 84 Resp: 2160
Ion Ratio Lower Upper
84 100
49 82.4 110.9 166.3#
51 37.1 32.6 49.0
86 47.4 51.6 77.4#



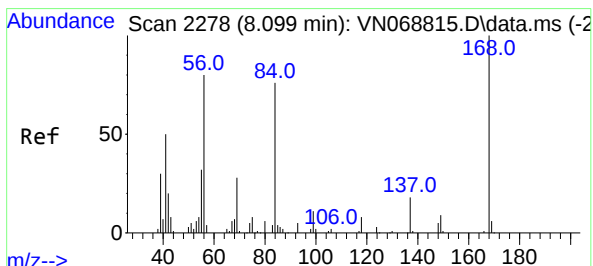
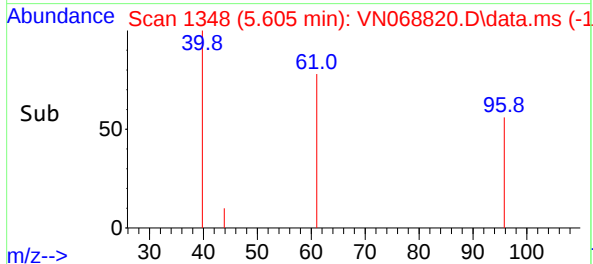
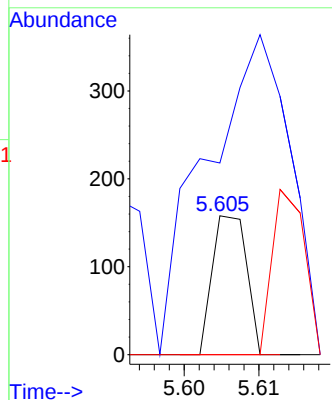
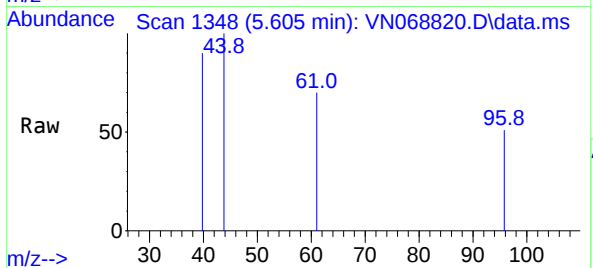


#21

trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.605 min Scan# 1348
Delta R.T. 0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Instrument :
MSVOA_N
ClientSampled :
VN1006WBL01

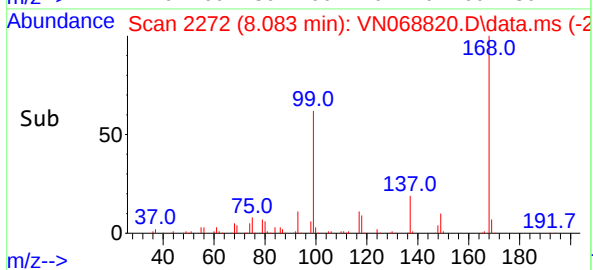
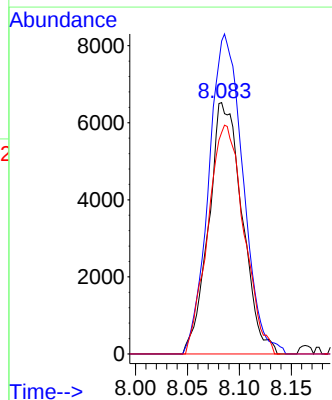
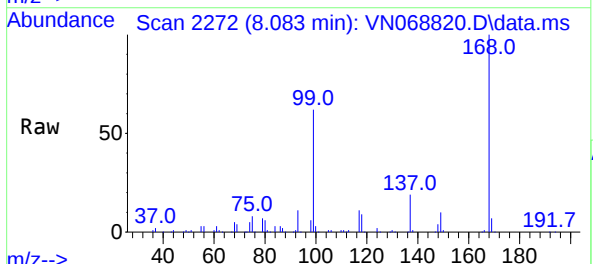
Tgt Ion: 96 Resp: 50
Ion Ratio Lower Upper
96 100
61 18.4 123.5 185.3#
98 0.0 48.6 72.8#

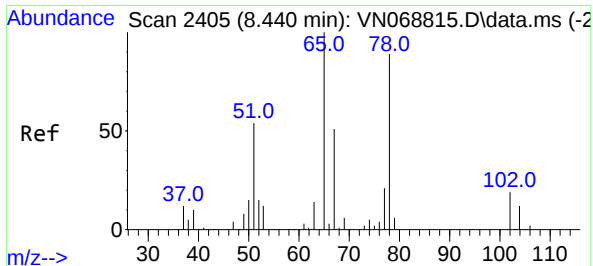


#31

Cyclohexane
Concen: Below Cal
RT: 8.083 min Scan# 2272
Delta R.T. -0.016 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 56 Resp: 14640
Ion Ratio Lower Upper
56 100
69 124.5 27.3 40.9#
84 88.1 64.9 97.3

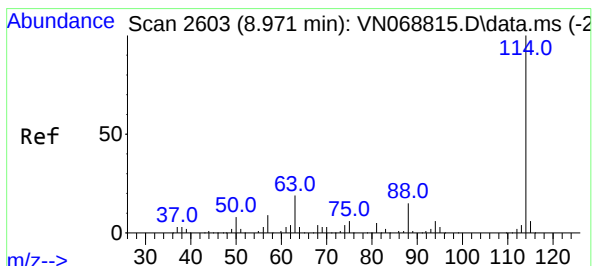
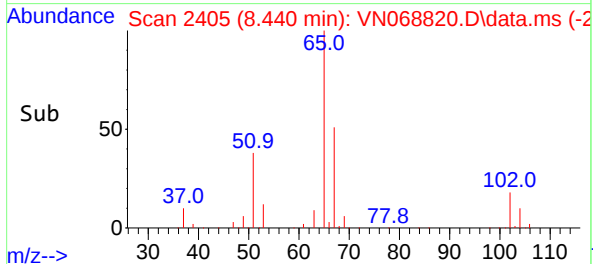
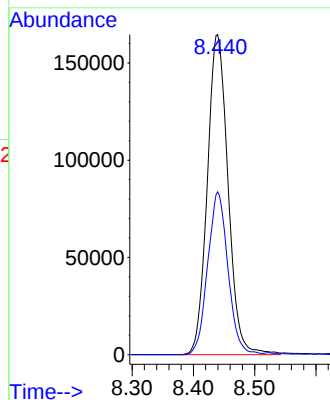
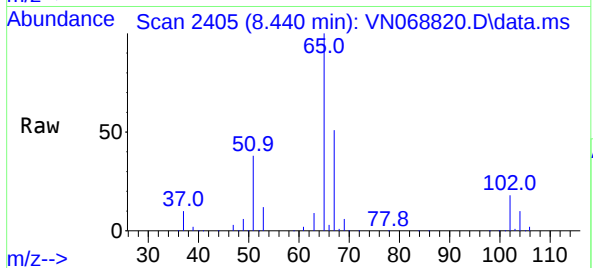




#33
1,2-Dichloroethane-d4
Concen: 52.79 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

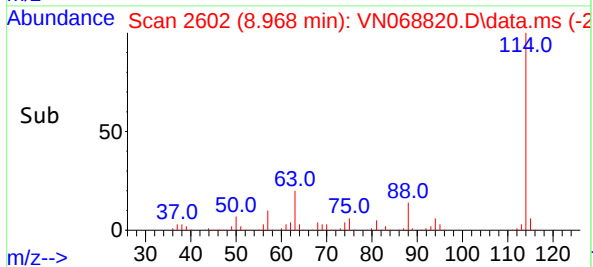
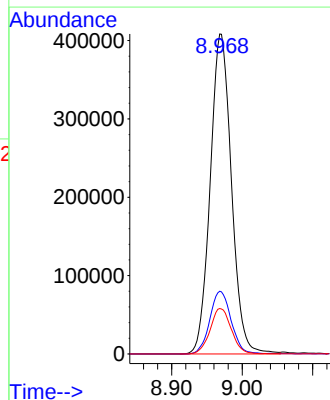
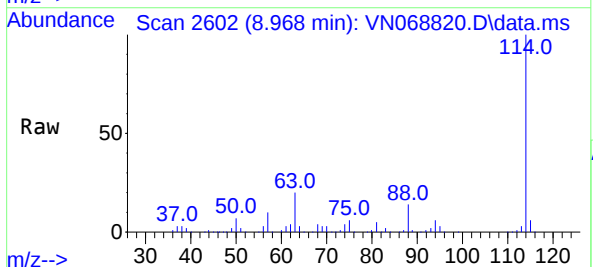
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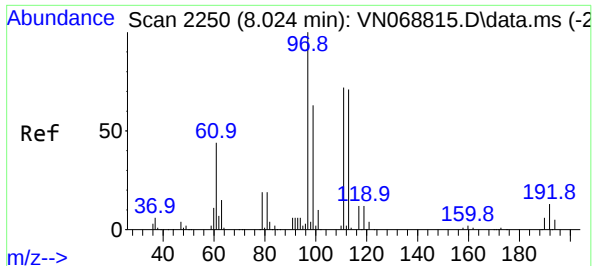
Tgt Ion: 65 Resp: 387674
Ion Ratio Lower Upper
65 100
67 49.6 0.0 98.6



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 114 Resp: 854245
Ion Ratio Lower Upper
114 100
63 19.6 0.0 49.0
88 14.2 0.0 36.6

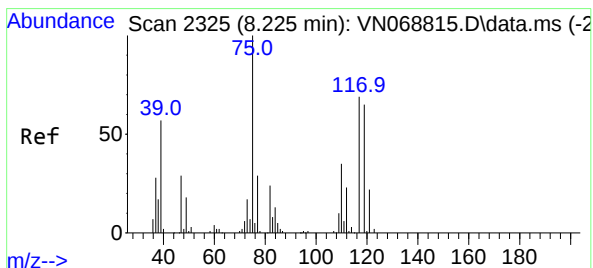
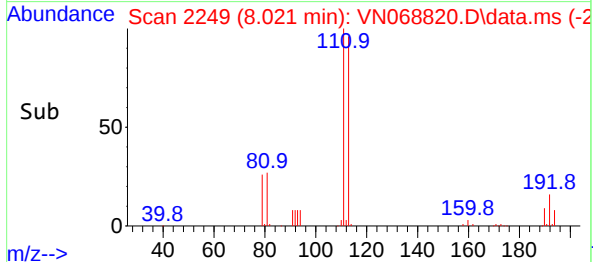
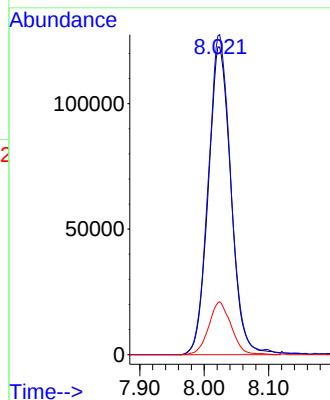
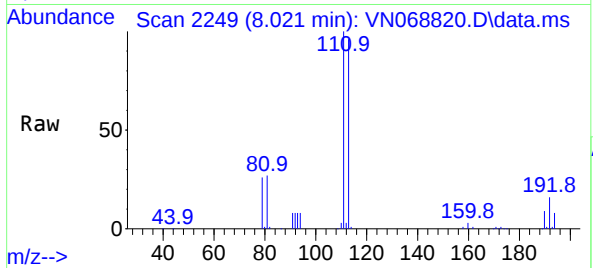




#35
Dibromofluoromethane
Concen: 53.48 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

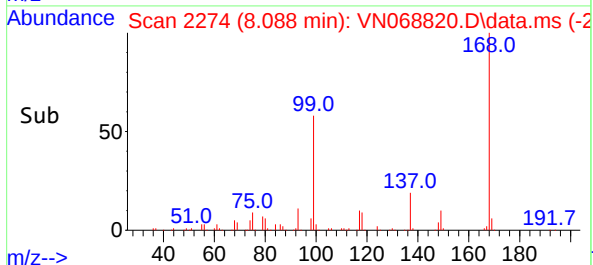
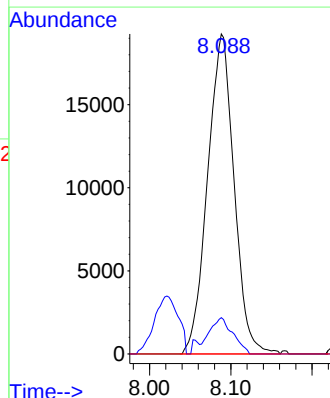
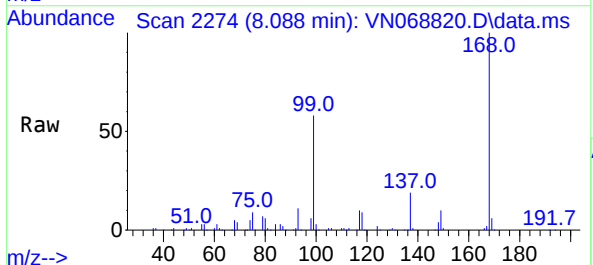
Instrument :
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ClientSampleId :
VN1006WBL01

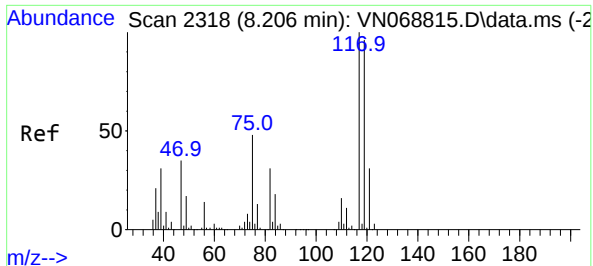
Tgt Ion:113 Resp: 300097
Ion Ratio Lower Upper
113 100
111 103.0 83.8 125.8
192 16.9 13.4 20.0



#36
1,1-Dichloropropene
Concen: 6.46 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.137 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 75 Resp: 43620
Ion Ratio Lower Upper
75 100
110 10.1 15.7 47.0#
77 0.0 24.6 37.0#

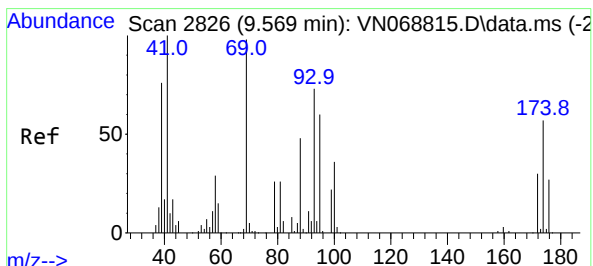
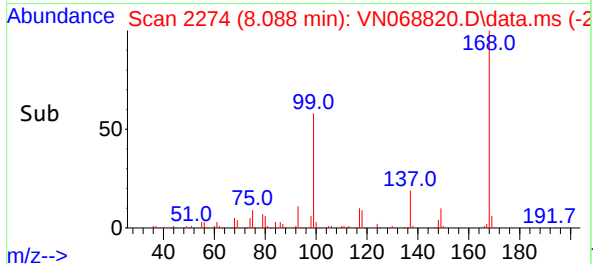
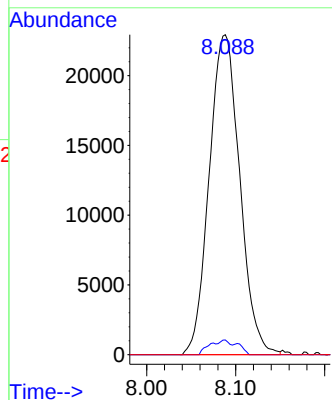
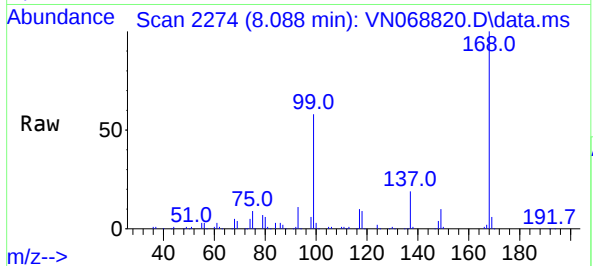




#38
Carbon Tetrachloride
Concen: 6.73 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

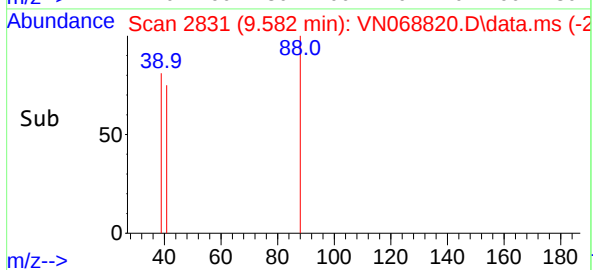
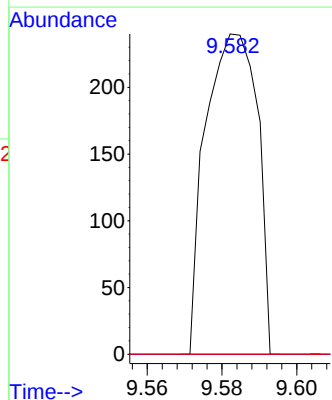
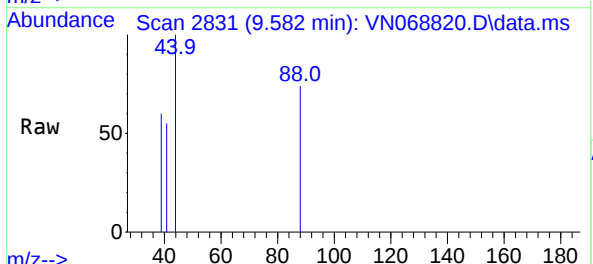
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

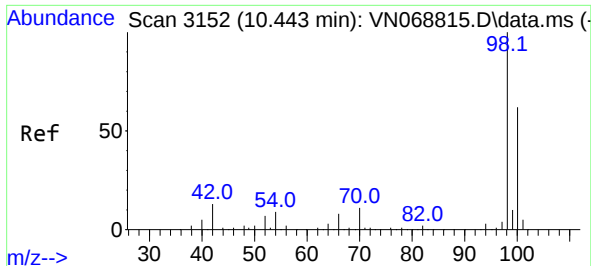
Tgt Ion:117 Resp: 54770
Ion Ratio Lower Upper
117 100
119 4.6 75.4 113.2#
121 0.0 23.5 35.3#



#49
1,4-Dioxane
Concen: 2.11 ug/l
RT: 9.582 min Scan# 2831
Delta R.T. 0.013 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 88 Resp: 230
Ion Ratio Lower Upper
88 100
43 0.0 28.8 43.2#
58 0.0 60.4 90.6#

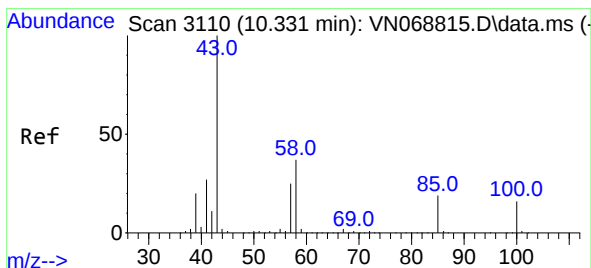
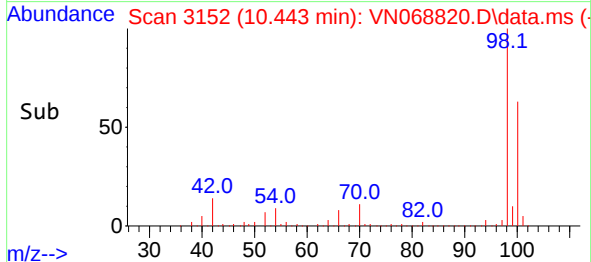
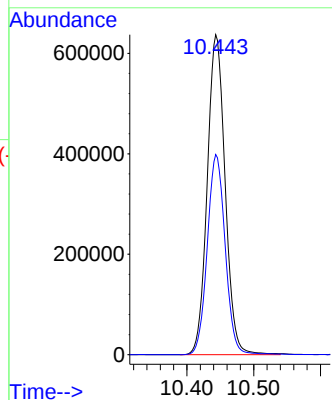
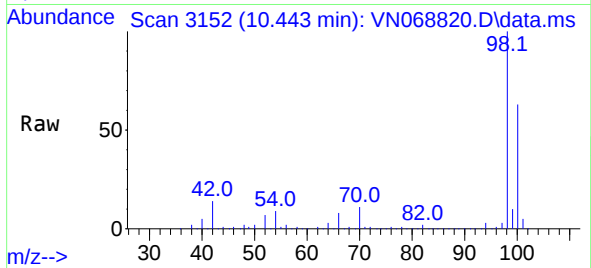




#50
Toluene-d8
Concen: 54.25 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

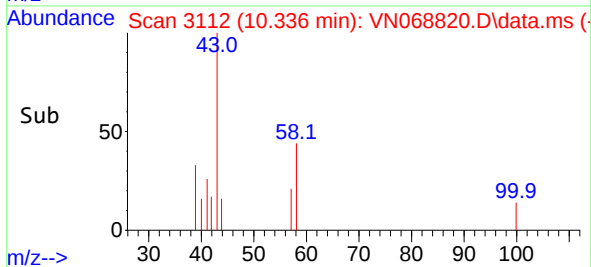
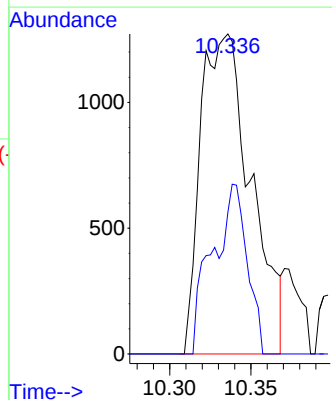
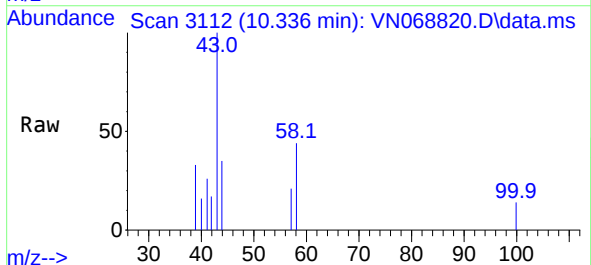
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

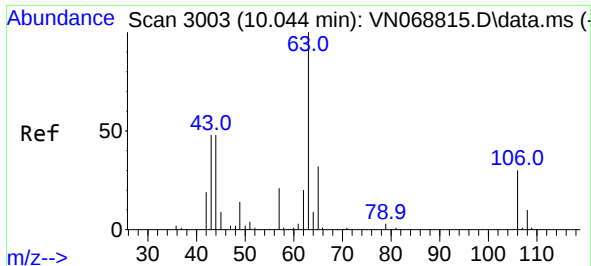
Tgt Ion: 98 Resp: 1187159
Ion Ratio Lower Upper
98 100
100 62.4 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.37 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 43 Resp: 2736
Ion Ratio Lower Upper
43 100
58 36.6 28.6 43.0

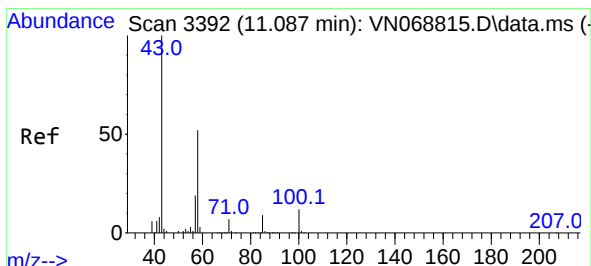
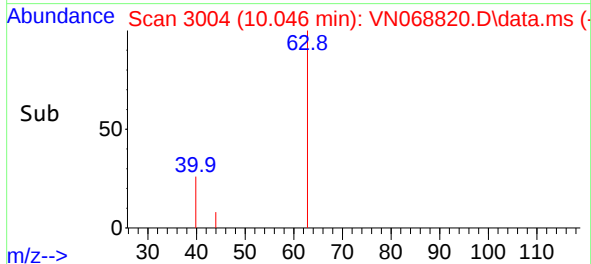
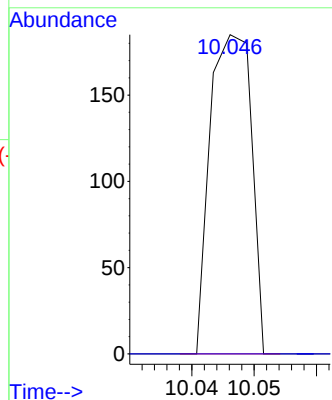
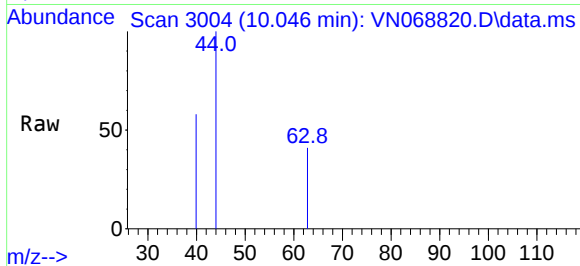




#58
2-Chloroethyl Vinyl ether
Concen: 32.86 ug/l
RT: 10.046 min Scan# 3004
Delta R.T. 0.002 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

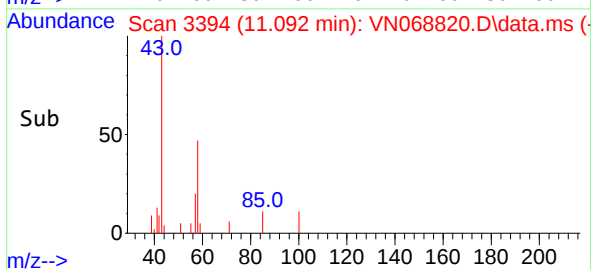
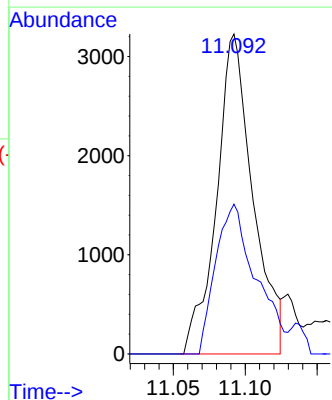
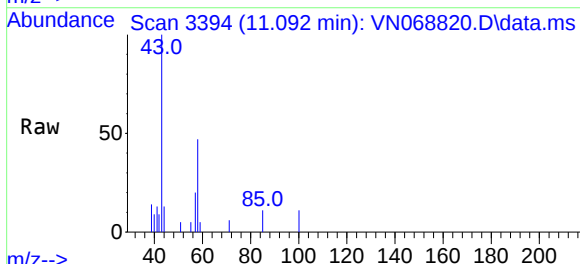
Instrument :
MSVOA_N
ClientSampled :
VN1006WBL01

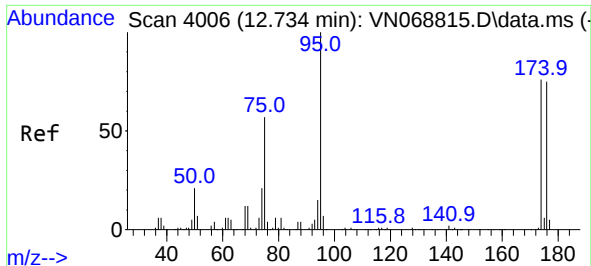
Tgt Ion: 63 Resp: 85
Ion Ratio Lower Upper
63 100
106 0.0 19.8 29.8#



#59
2-Hexanone
Concen: 1.05 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 43 Resp: 5672
Ion Ratio Lower Upper
43 100
58 52.5 24.7 74.1

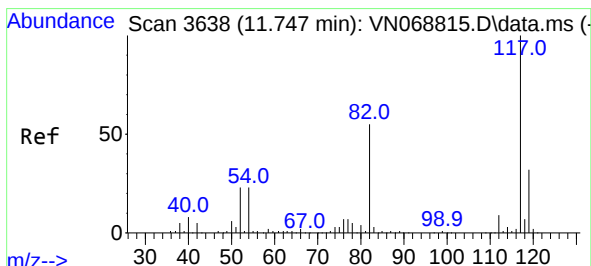
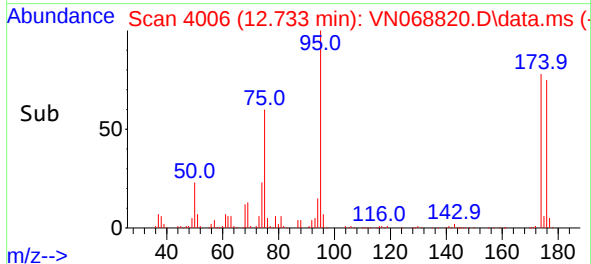
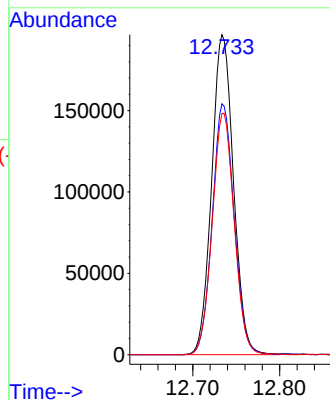
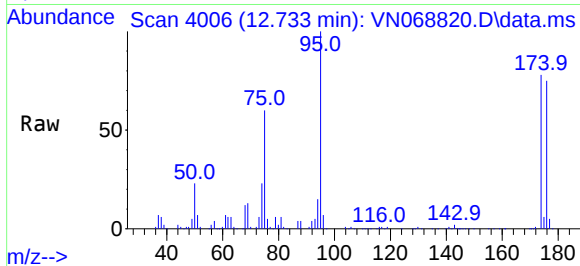




#62
4-Bromofluorobenzene
Concen: 42.32 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

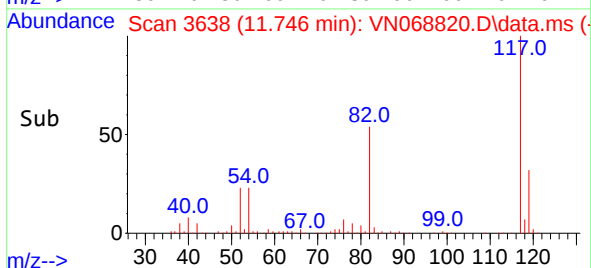
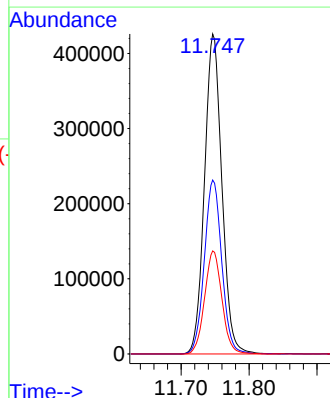
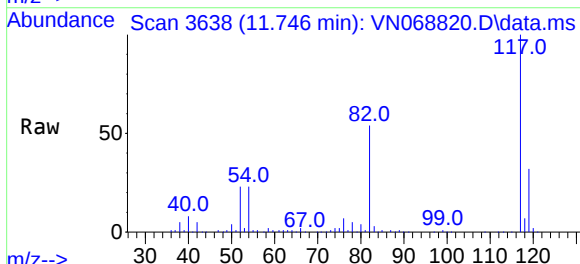
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

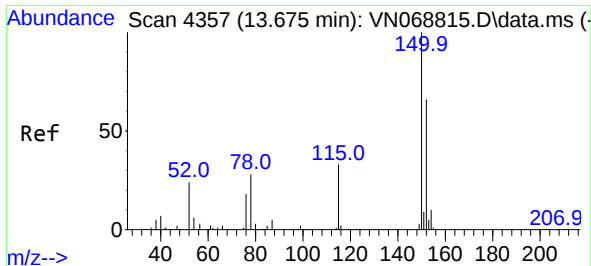
Tgt Ion: 95 Resp: 343249
Ion Ratio Lower Upper
95 100
174 78.8 0.0 122.0
176 75.8 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.001 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 117 Resp: 757404
Ion Ratio Lower Upper
117 100
82 54.3 53.1 79.7
119 32.2 25.5 38.3

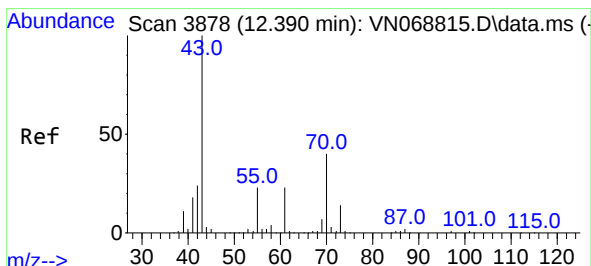
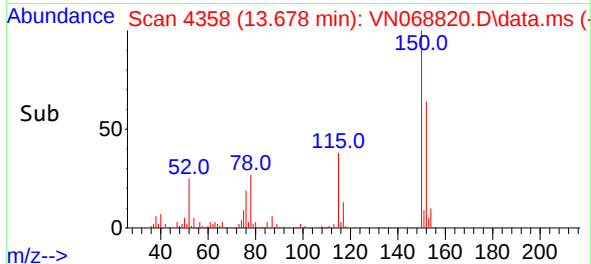
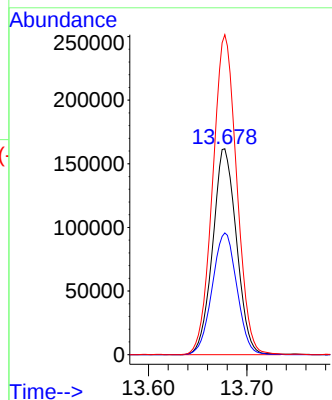
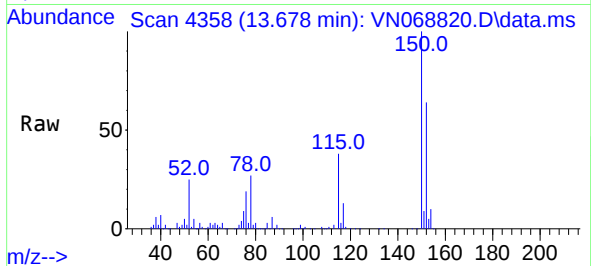




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

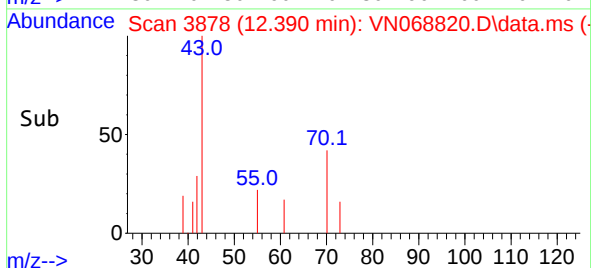
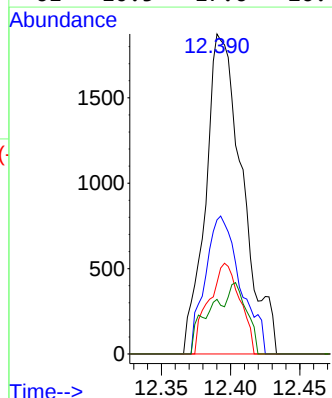
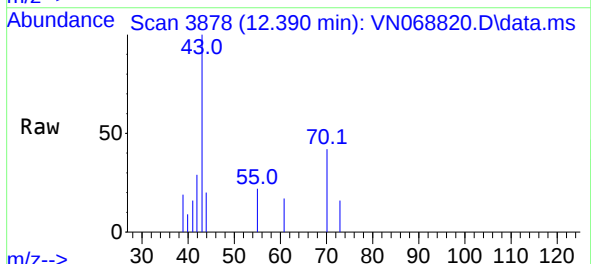
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

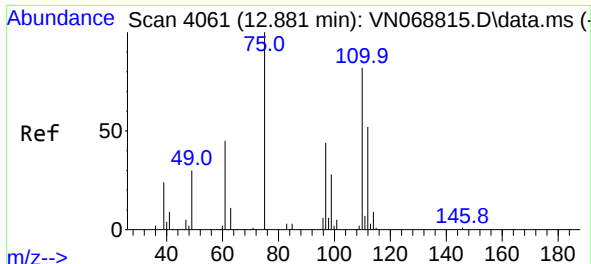
Tgt Ion:152 Resp: 272678
Ion Ratio Lower Upper
152 100
115 61.4 36.1 108.5
150 156.8 0.0 351.8



#74
N-ethyl acetate
Concen: 0.48 ug/l
RT: 12.390 min Scan# 3878
Delta R.T. 0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 43 Resp: 3463
Ion Ratio Lower Upper
43 100
70 41.3 29.4 44.2
55 24.0 17.0 25.4
61 10.5 17.6 26.4#

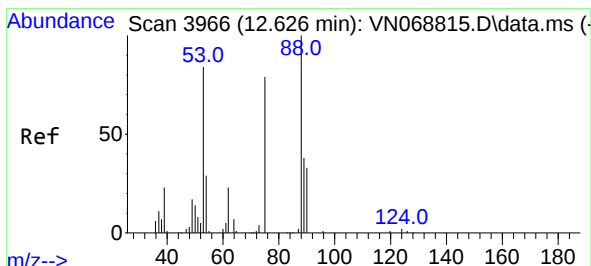
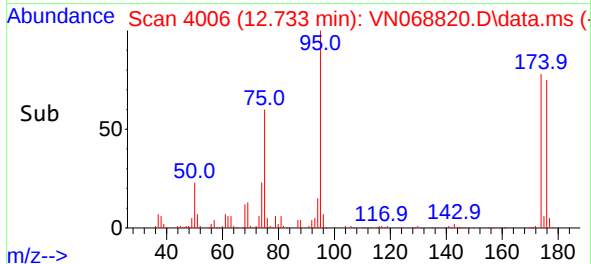
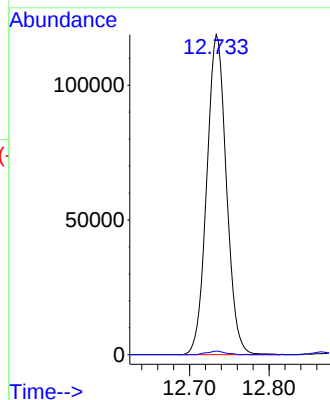
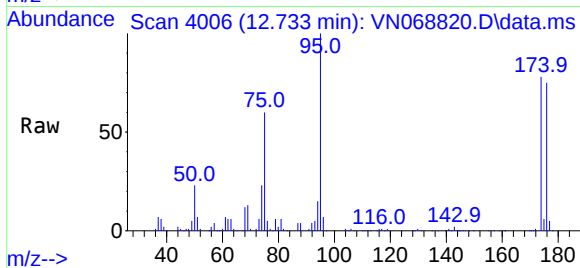




#76
1,2,3-Trichloropropane
Concen: 37.92 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

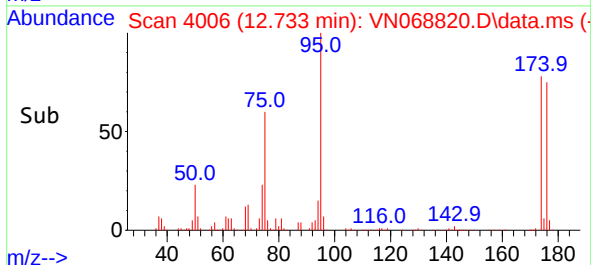
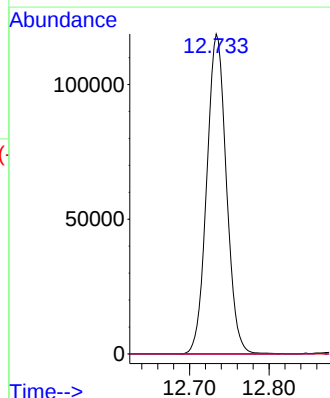
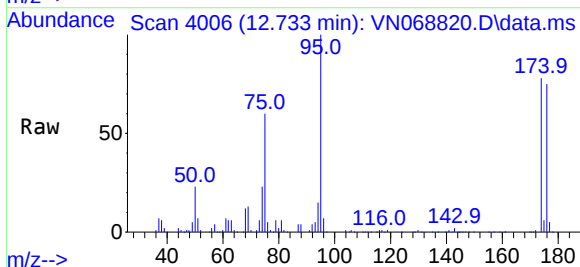
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

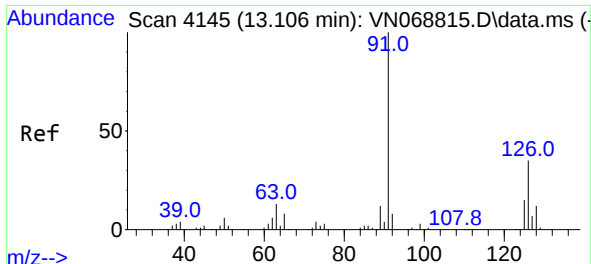
Tgt Ion: 75 Resp: 203851
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 109.87 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion: 75 Resp: 203851
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

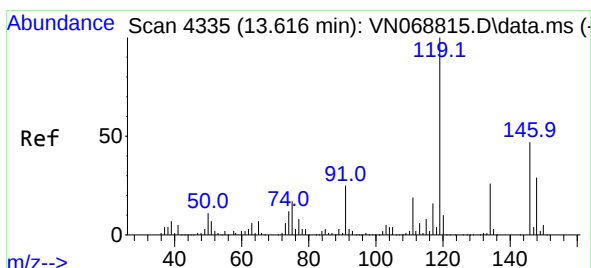
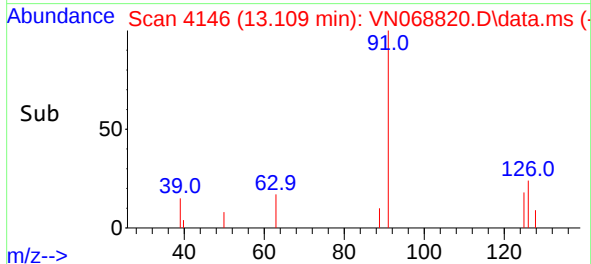
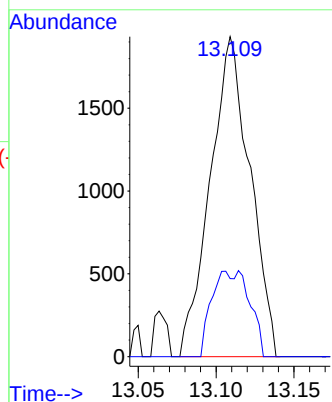
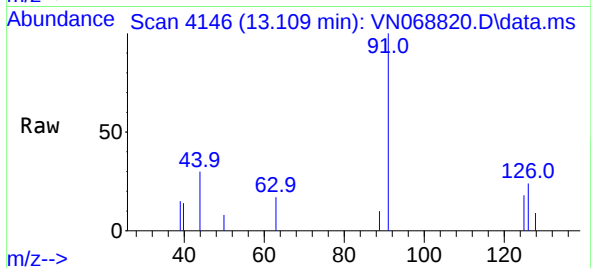




#82
4-Chlorotoluene
Concen: 0.24 ug/l
RT: 13.109 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

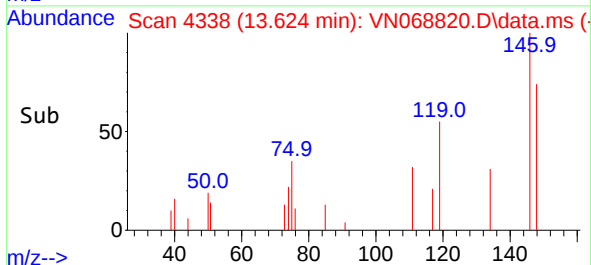
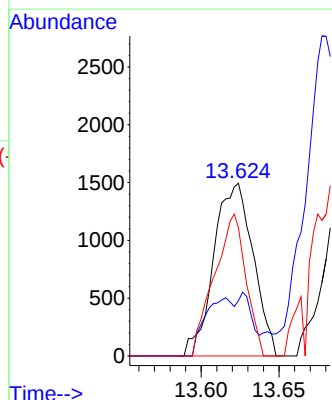
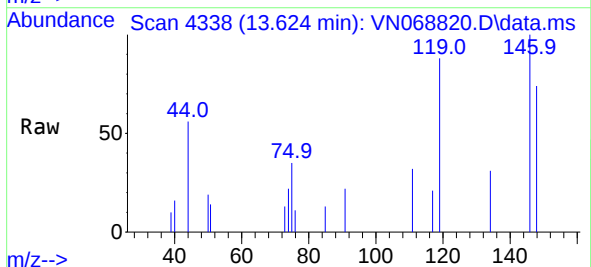
Instrument :
MSVOA_N
ClientSampled :
VN1006WBL01

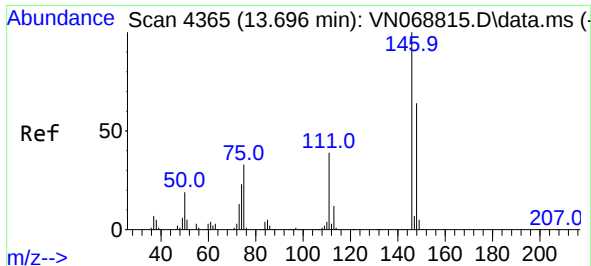
Tgt Ion: 91 Resp: 3432
Ion Ratio Lower Upper
91 100
126 15.5 14.8 44.4



#87
1,3-Dichlorobenzene
Concen: 0.29 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. 0.008 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

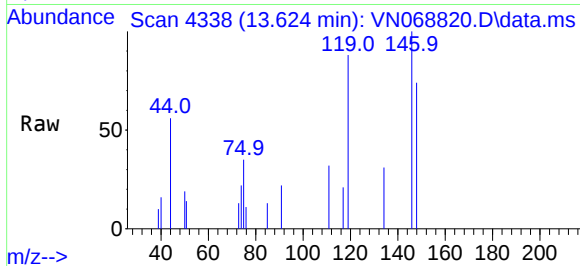
Tgt Ion: 146 Resp: 2624
Ion Ratio Lower Upper
146 100
111 24.6 24.3 72.8
148 66.0 32.0 96.0





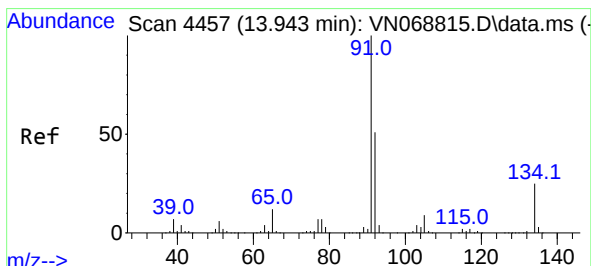
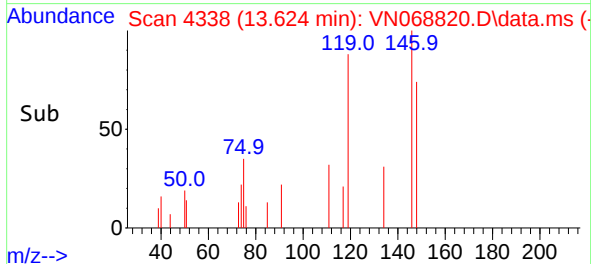
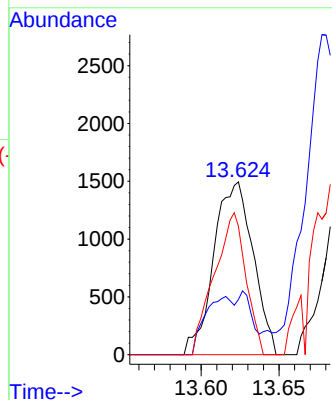
#88
1,4-Dichlorobenzene
Concen: 0.29 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. -0.072 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

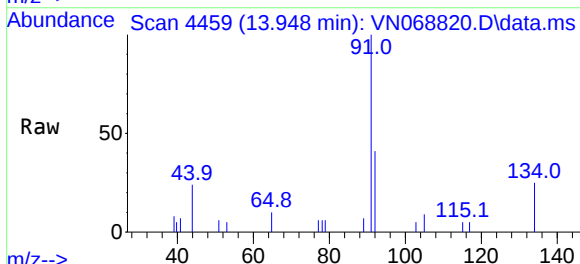


Tgt Ion: 146 Resp: 2624

Ion	Ratio	Lower	Upper
146	100		
111	24.6	23.4	70.2
148	66.0	31.8	95.3

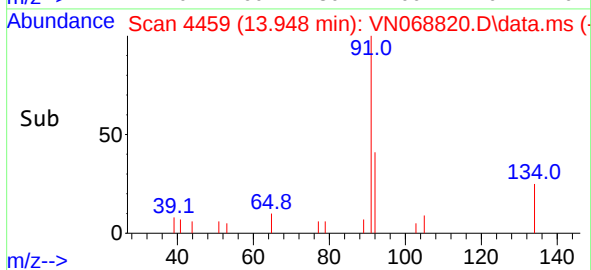
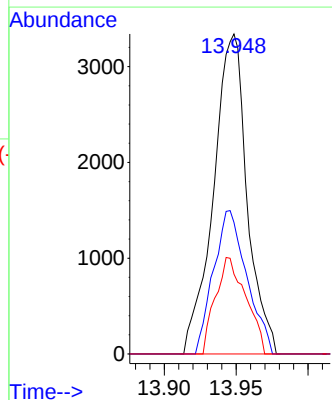


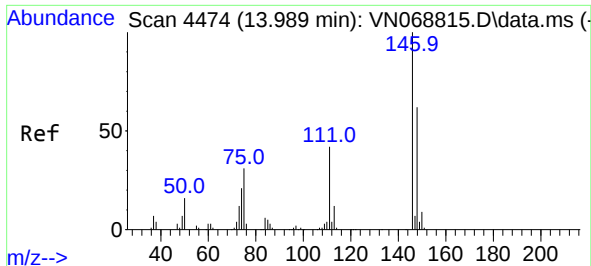
#89
n-Butylbenzene
Concen: 0.35 ug/l
RT: 13.948 min Scan# 4459
Delta R.T. 0.005 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52



Tgt Ion: 91 Resp: 5431

Ion	Ratio	Lower	Upper
91	100		
92	44.5	25.7	77.1
134	27.3	11.2	33.6

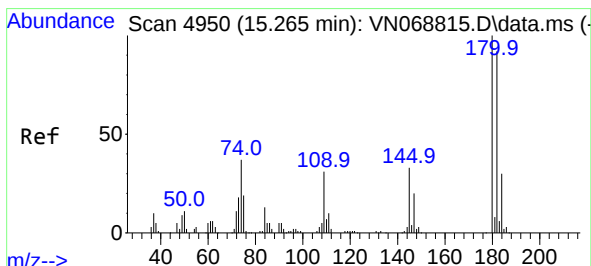
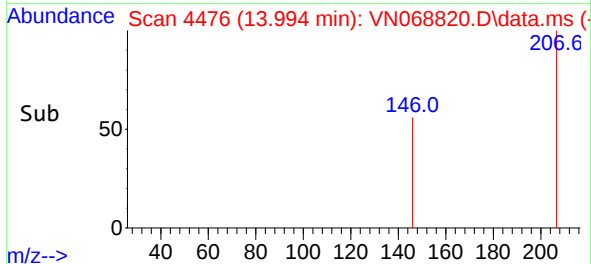
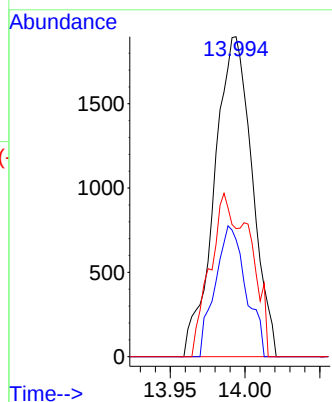
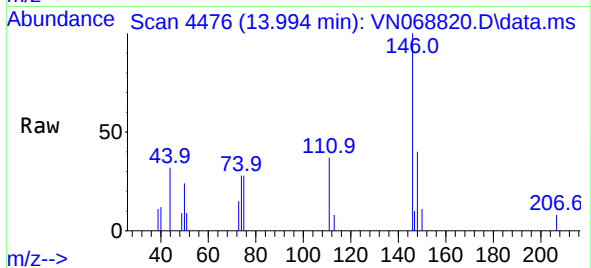




#91
1,2-Dichlorobenzene
Concen: 0.37 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.005 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

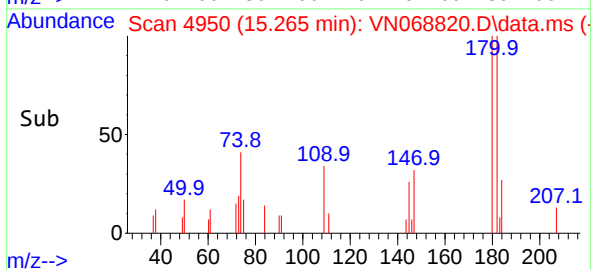
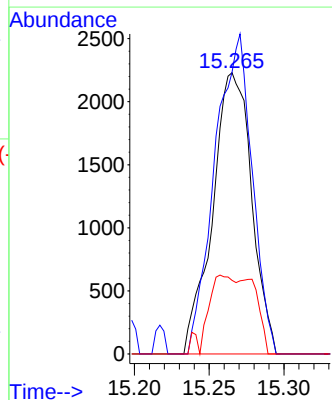
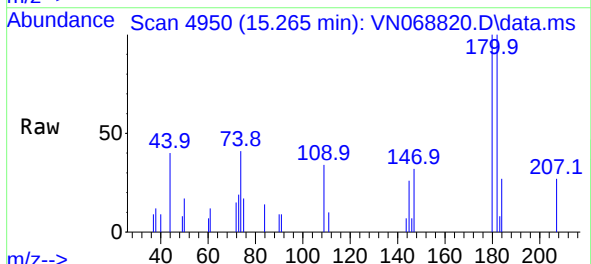
Instrument :
MSVOA_N
ClientSampled :
VN1006WBL01

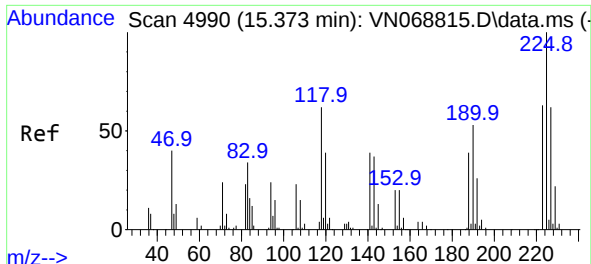
Tgt Ion:	146	Resp:	3321
Ion	Ratio	Lower	Upper
146	100		
111	33.4	24.9	74.6
148	33.3	31.6	95.0



#93
1,2,4-Trichlorobenzene
Concen: 1.00 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion:	180	Resp:	4064
Ion	Ratio	Lower	Upper
180	100		
182	108.2	47.5	142.5
145	19.7	17.2	51.6

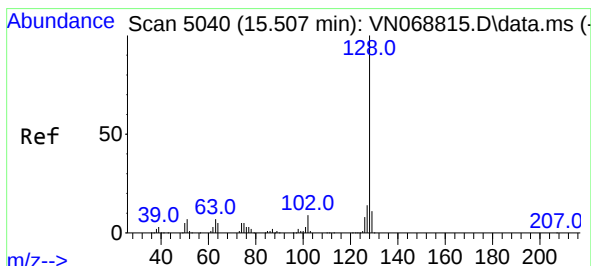
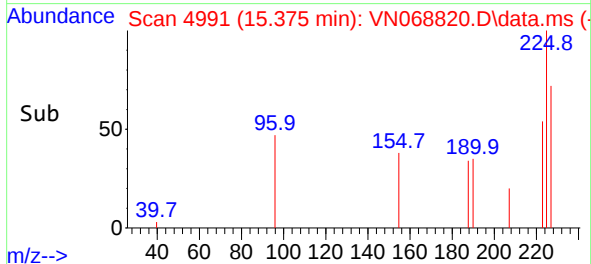
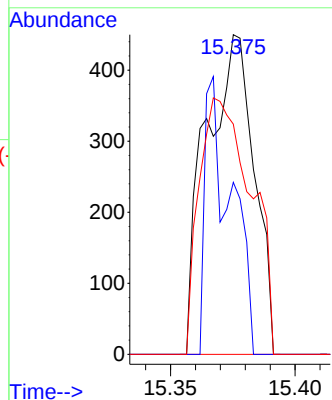
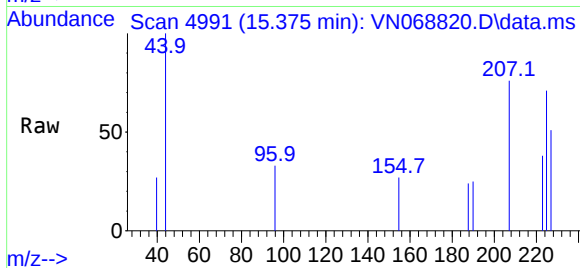




#94
Hexachlorobutadiene
Concen: 0.28 ug/l
RT: 15.375 min Scan# 4991
Delta R.T. 0.002 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

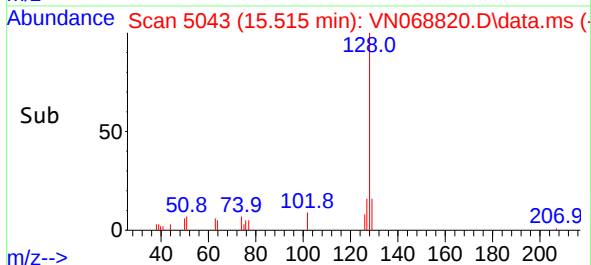
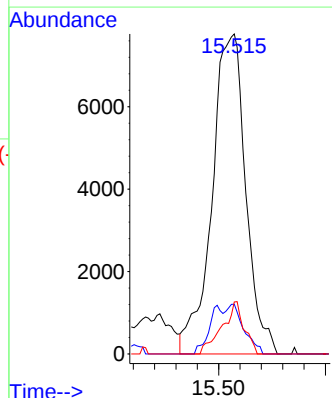
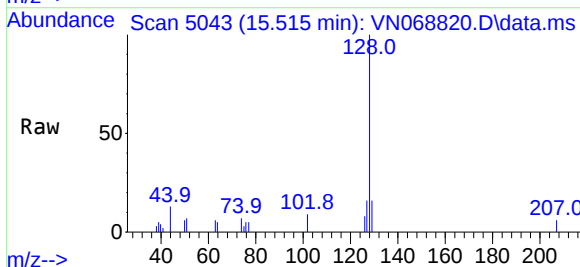
Instrument :
MSVOA_N
ClientSampleId :
VN1006WBL01

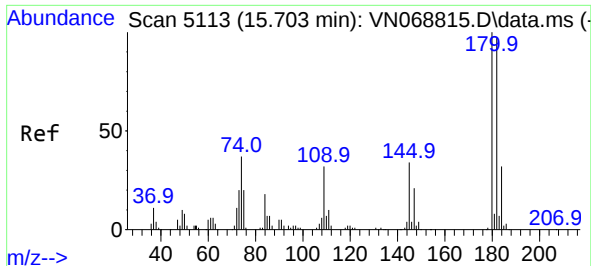
Tgt Ion:225 Resp: 604
Ion Ratio Lower Upper
225 100
223 30.6 31.4 94.0#
227 86.8 31.2 93.6



#95
Naphthalene
Concen: 1.57 ug/l
RT: 15.515 min Scan# 5043
Delta R.T. 0.008 min
Lab File: VN068820.D
Acq: 6 Oct 2021 15:52

Tgt Ion:128 Resp: 16990
Ion Ratio Lower Upper
128 100
127 6.3 10.6 15.8#
129 10.7 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 1.27 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. -0.001 min
 Lab File: VN068820.D
 Acq: 6 Oct 2021 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1006WBL01

Tgt Ion:180 Resp: 5514
 Ion Ratio Lower Upper
 180 100
 182 41.5 47.8 143.3#
 145 36.3 18.2 54.6

