

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112123\
 Data File : VN080232.D
 Acq On : 21 Nov 2023 15:16
 Operator : JC\MD
 Sample : 05482-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 22 00:08:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

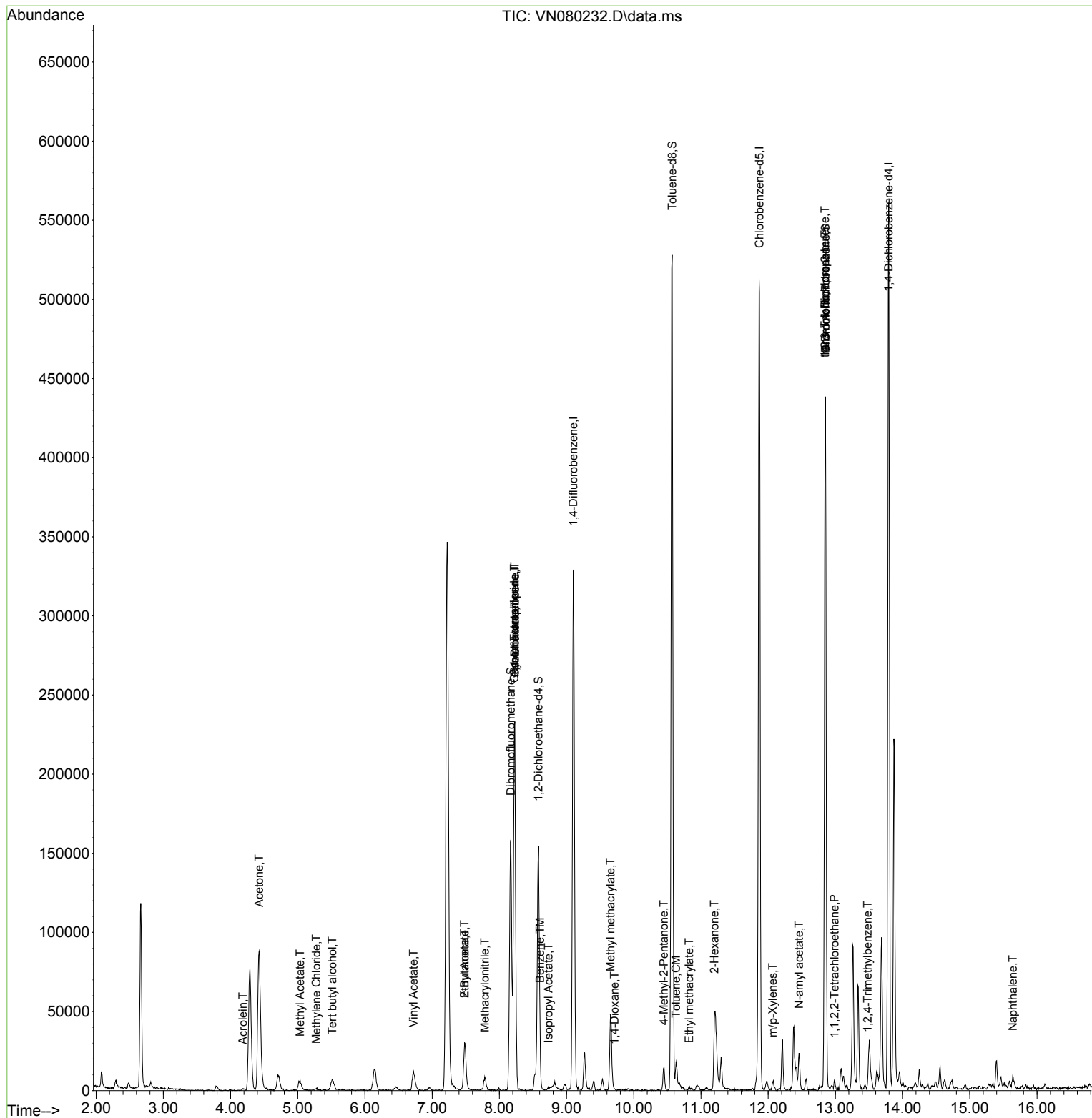
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	158770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	277251	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	292054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	144947	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	138298	52.754	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.500%	
35) Dibromofluoromethane	8.171	113	107071	52.338	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.680%	
50) Toluene-d8	10.571	98	362177	49.112	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.220%	
62) 4-Bromofluorobenzene	12.853	95	154828	55.584	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 111.160%	
Target Compounds						Qvalue
6) Chloroethane	3.118	64	373	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	12766	44.282	ug/l	97
13) Acrolein	4.183	56	718	2.814	ug/l #	10
16) Acetone	4.424	43	168189	191.012	ug/l	93
18) Methyl Acetate	5.036	43	12131	4.288	ug/l #	66
20) Methylene Chloride	5.277	84	559	0.303	ug/l #	48
23) Vinyl Acetate	6.724	43	1929	0.687	ug/l #	62
25) 2-Butanone	7.483	43	45853	43.830	ug/l #	79
31) Cyclohexane	8.230	56	3559	1.248	ug/l #	38
36) 1,1-Dichloropropene	8.230	75	13760	4.646	ug/l #	49
37) Ethyl Acetate	7.483	43	45853	22.319	ug/l #	63
38) Carbon Tetrachloride	8.224	117	18136	4.825	ug/l #	16
40) Benzene	8.606	78	1826	0.217	ug/l #	52
41) Methacrylonitrile	7.783	41	1817	1.610	ug/l #	33
43) Isopropyl Acetate	8.730	43	1299	0.325	ug/l #	49
48) Methyl methacrylate	9.653	41	13175	6.395	ug/l #	31
49) 1,4-Dioxane	9.712	88	559	16.309	ug/l #	26
51) 4-Methyl-2-Pentanone	10.447	43	9091	4.392	ug/l #	85
52) Toluene	10.629	92	7779	1.477	ug/l	93
56) Ethyl methacrylate	10.824	69	1004	0.489	ug/l #	51
59) 2-Hexanone	11.200	43	21495	12.924	ug/l #	37
68) m/p-Xylenes	12.071	106	2000	0.466	ug/l	83
71) Bromoform	12.853	173	820	0.431	ug/l #	1
74) N-amyl acetate	12.459	43	13418	3.820	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.988	83	3756	1.114	ug/l #	26
76) 1,2,3-Trichloropropane	12.847	75	89456	25.189	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	89456	85.102	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.482	105	4045	0.419	ug/l #	59
95) Naphthalene	15.641	128	6688	0.810	ug/l	97

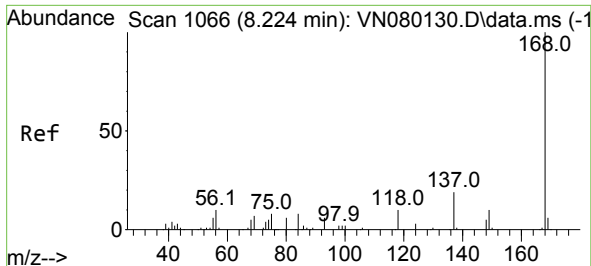
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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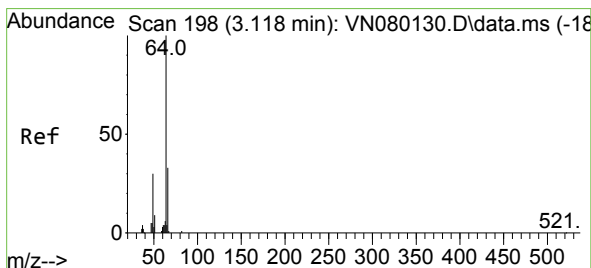
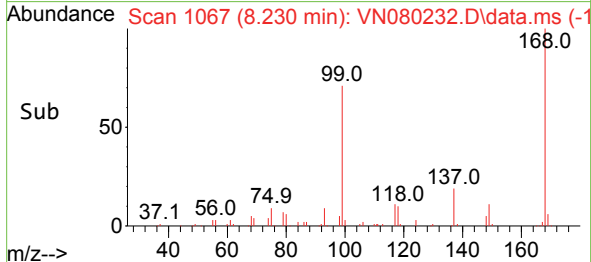
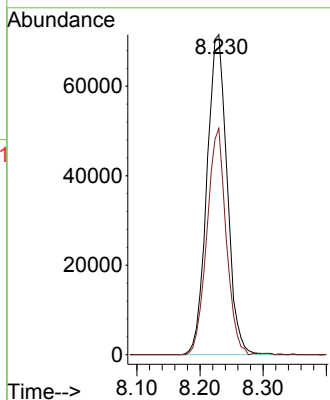
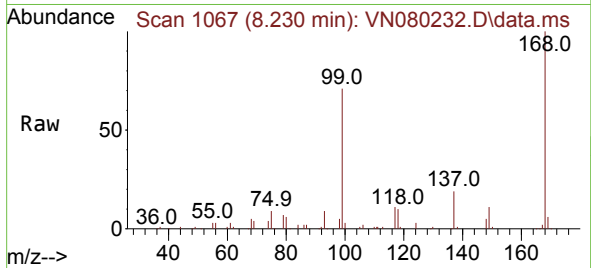




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

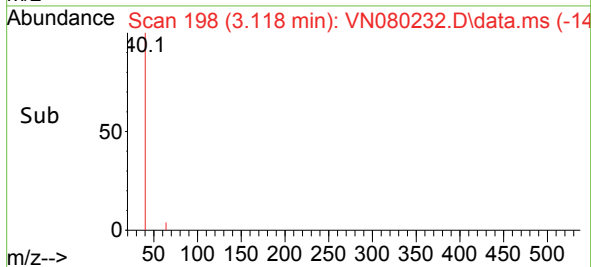
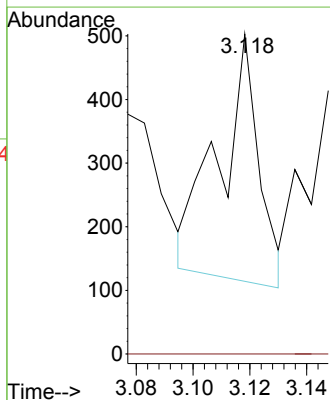
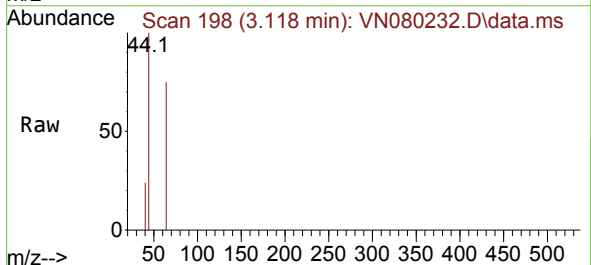
Instrument :
MSVOA_N
ClientSampleId :

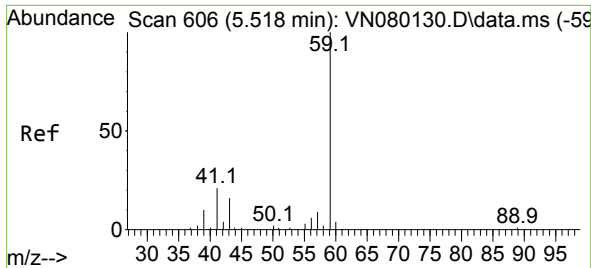
Tgt Ion:168 Resp: 158770
Ion Ratio Lower Upper
168 100
99 70.7 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 64 Resp: 373
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

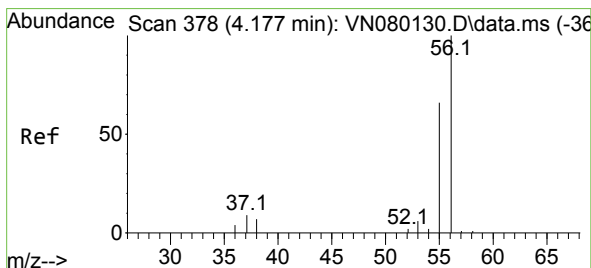
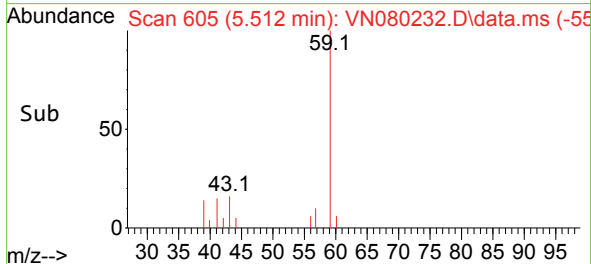
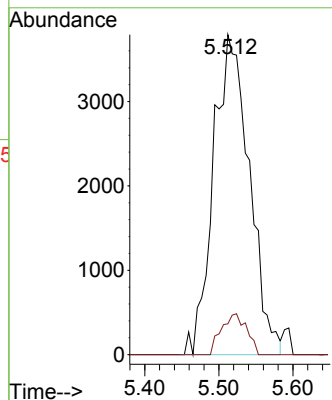
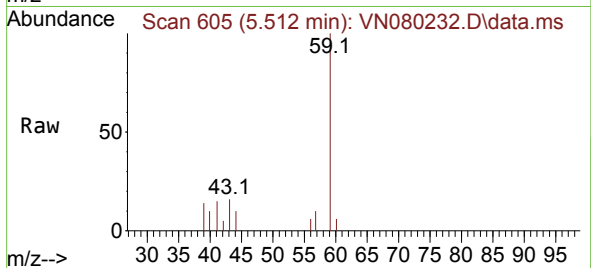




#11
Tert butyl alcohol
Concen: 44.282 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

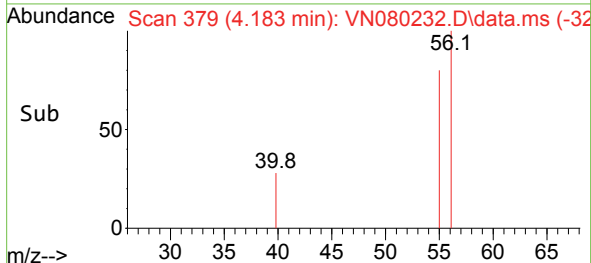
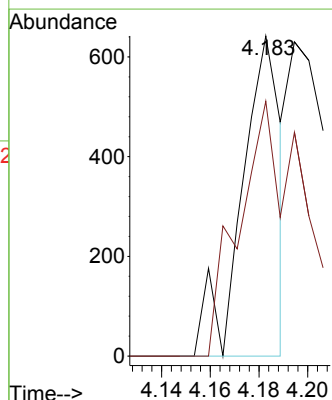
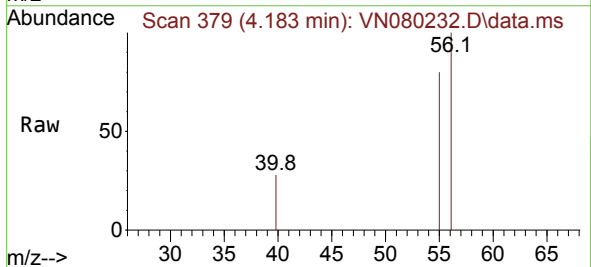
Instrument :
MSVOA_N
ClientSampleId :

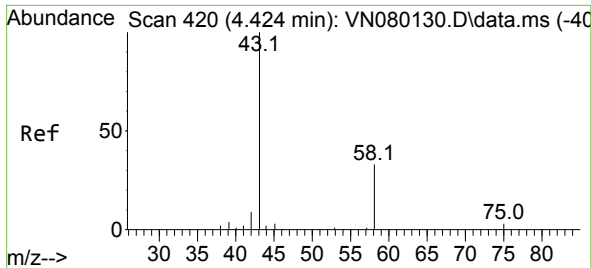
Tgt Ion: 59 Resp: 12766
Ion Ratio Lower Upper
59 100
57 9.0 8.2 12.4



#13
Acrolein
Concen: 2.814 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 56 Resp: 718
Ion Ratio Lower Upper
56 100
55 140.5 54.5 81.7#

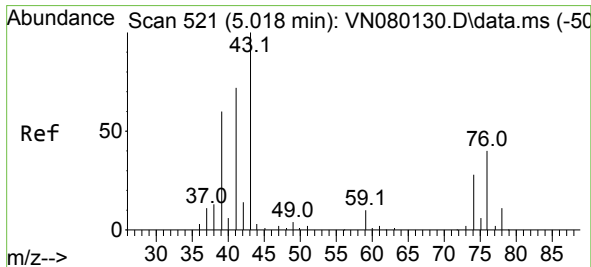
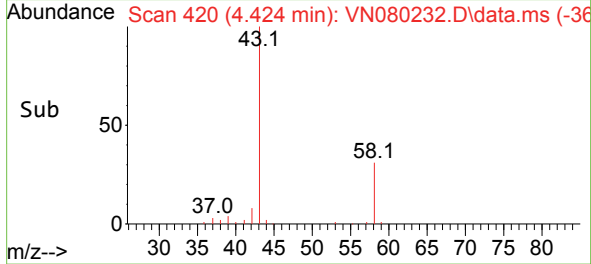
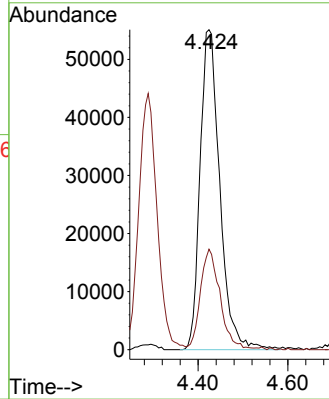
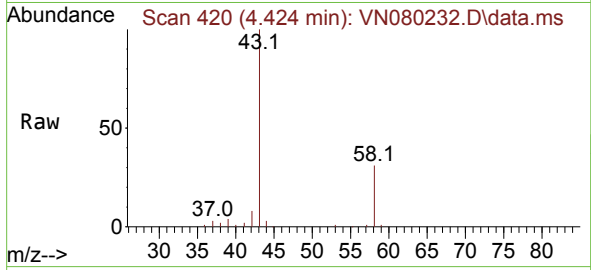




#16
Acetone
Concen: 191.012 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

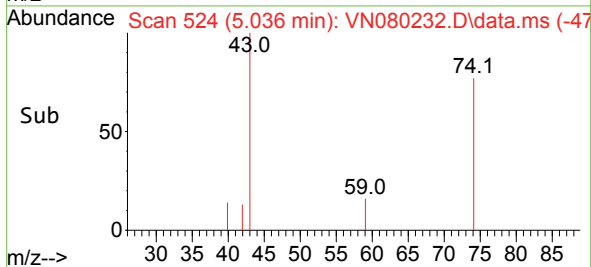
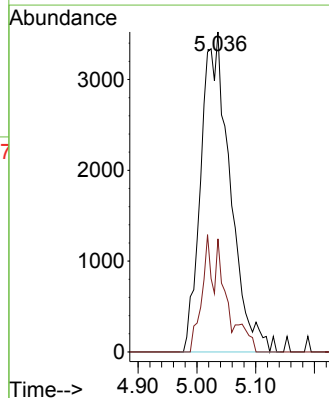
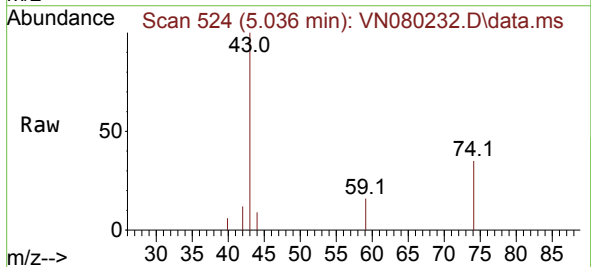
Instrument :
MSVOA_N
ClientSampleId :

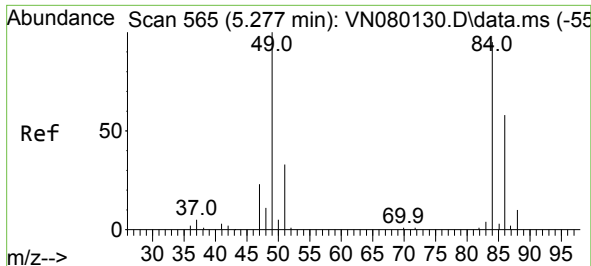
Tgt Ion: 43 Resp: 168189
Ion Ratio Lower Upper
43 100
58 31.1 28.0 42.0



#18
Methyl Acetate
Concen: 4.288 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

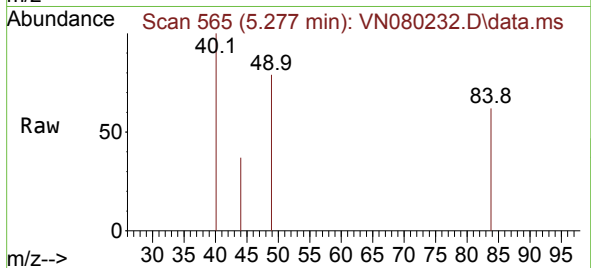
Tgt Ion: 43 Resp: 12131
Ion Ratio Lower Upper
43 100
74 13.5 26.2 39.4#





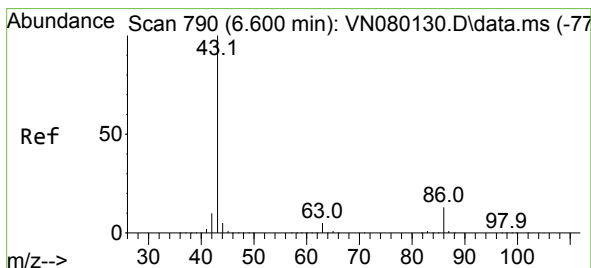
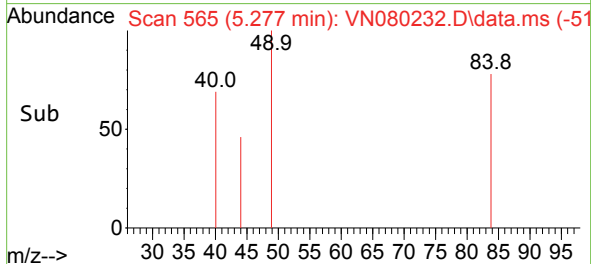
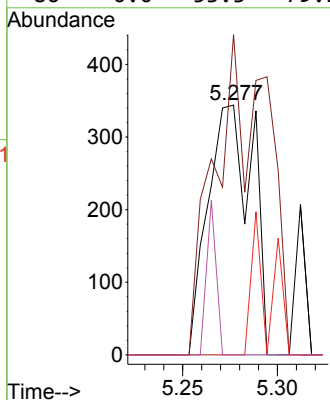
#20
Methylene Chloride
Concen: 0.303 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 559

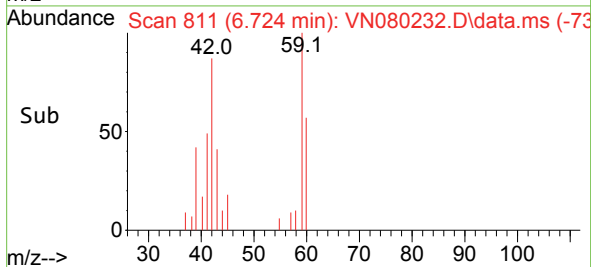
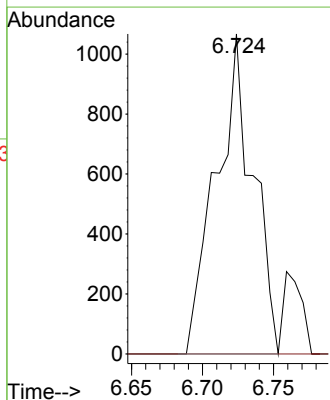
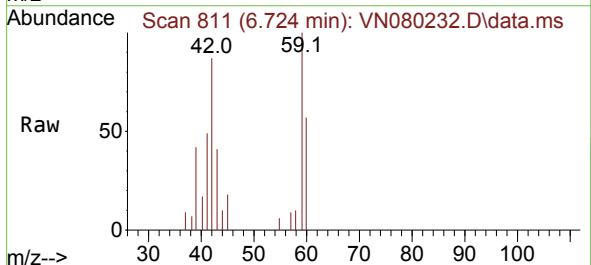
Ion	Ratio	Lower	Upper
84	100		
49	128.2	79.7	119.5#
51	0.0	25.2	37.8#
86	0.0	53.3	79.9#

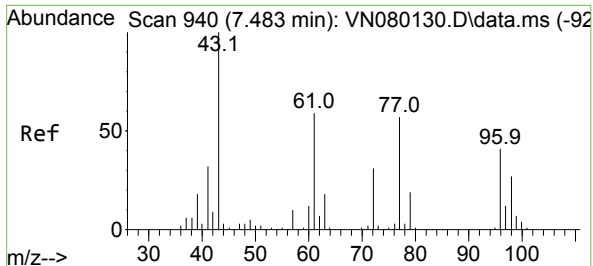


#23
Vinyl Acetate
Concen: 0.687 ug/l
RT: 6.724 min Scan# 811
Delta R.T. 0.123 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 43 Resp: 1929

Ion	Ratio	Lower	Upper
43	100		
86	0.0	13.0	19.6#

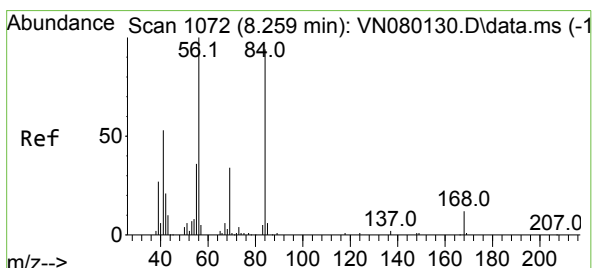
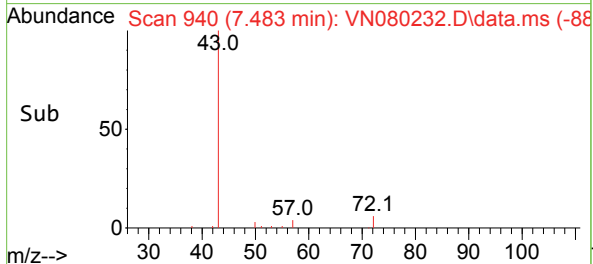
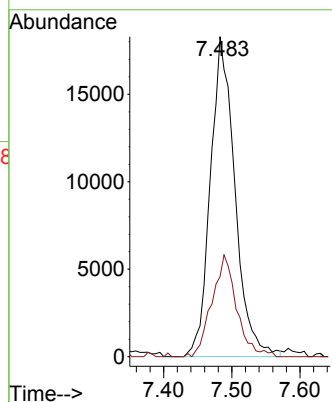
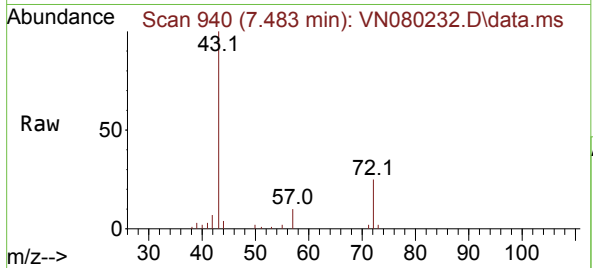




#25
2-Butanone
Concen: 43.830 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

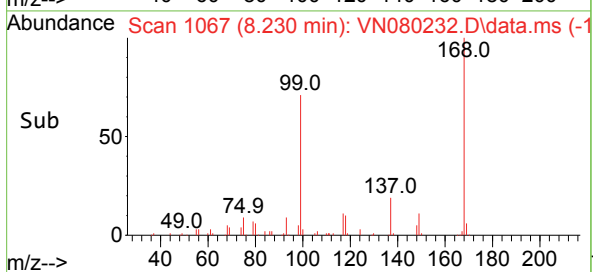
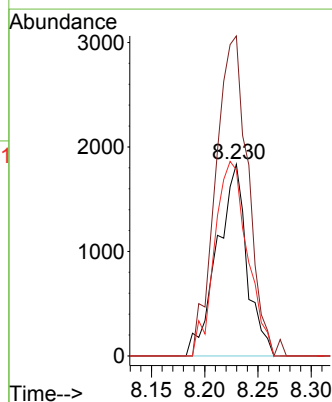
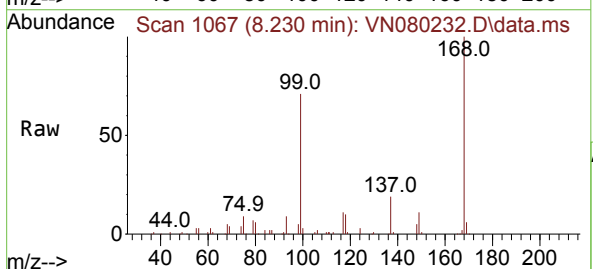
Instrument :
MSVOA_N
ClientSampleId :

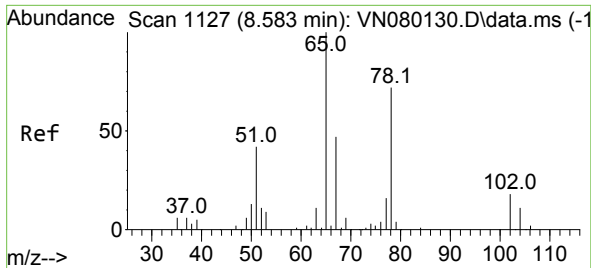
Tgt Ion: 43 Resp: 45853
Ion Ratio Lower Upper
43 100
72 25.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.248 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 56 Resp: 3559
Ion Ratio Lower Upper
56 100
69 167.0 26.8 40.2#
84 97.1 81.8 122.6

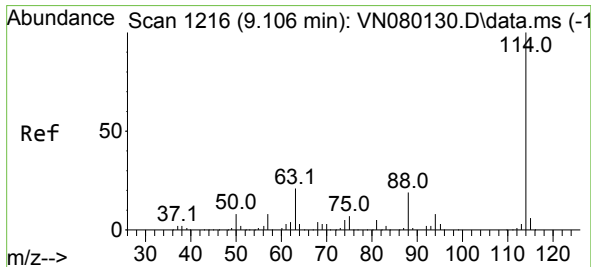
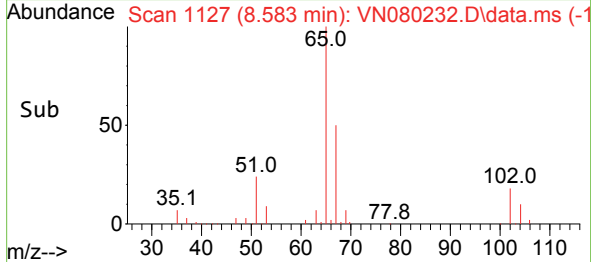
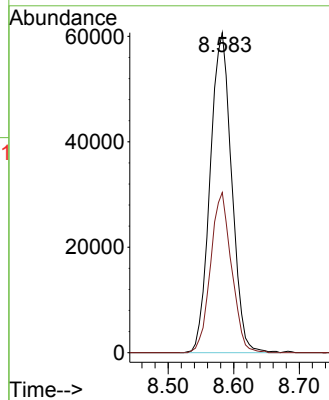
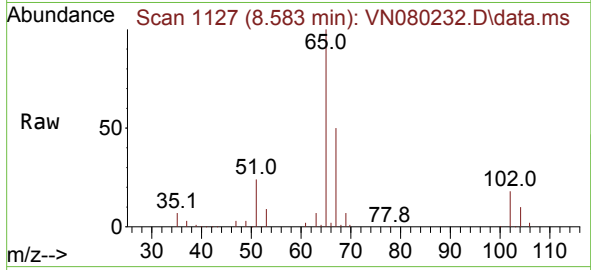




#33
 1,2-Dichloroethane-d4
 Concen: 52.754 ug/l
 RT: 8.583 min Scan# 1127
 Delta R.T. -0.000 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

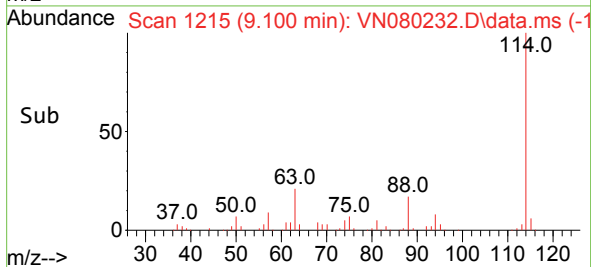
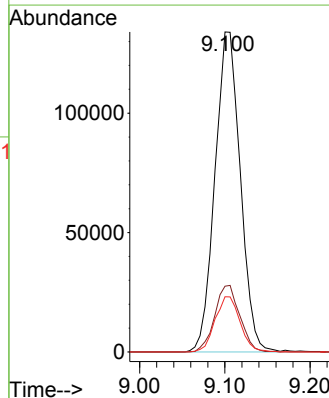
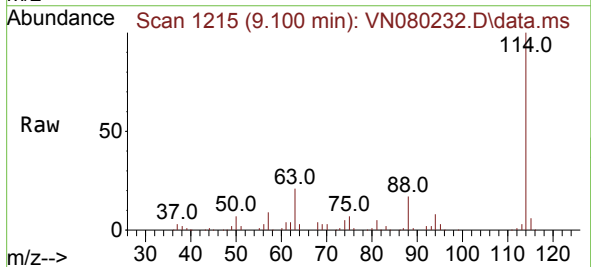
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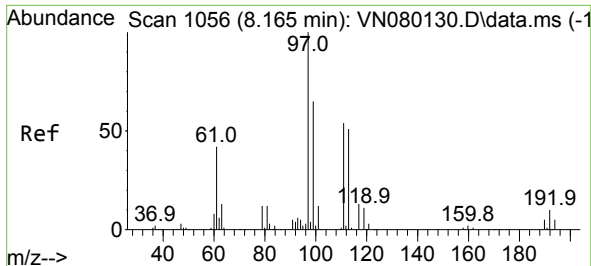
Tgt Ion: 65 Resp: 138298
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.006 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

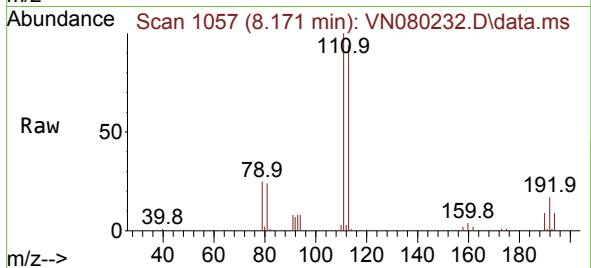
Tgt Ion:114 Resp: 277251
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 36.4
 88 17.3 0.0 30.6



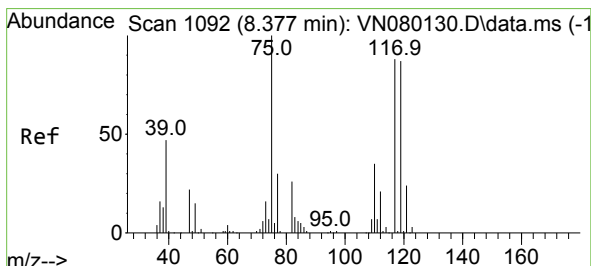
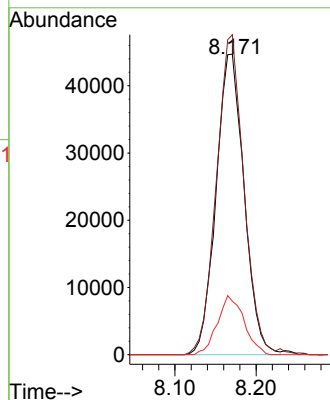
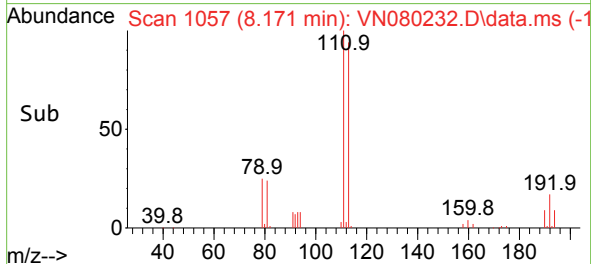


#35
 Dibromofluoromethane
 Concen: 52.338 ug/l
 RT: 8.171 min Scan# 1056
 Delta R.T. 0.006 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

Instrument :
 MSVOA_N
 ClientSampleId :

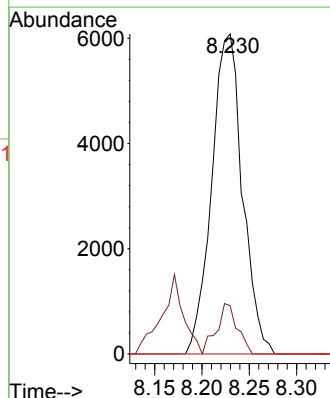
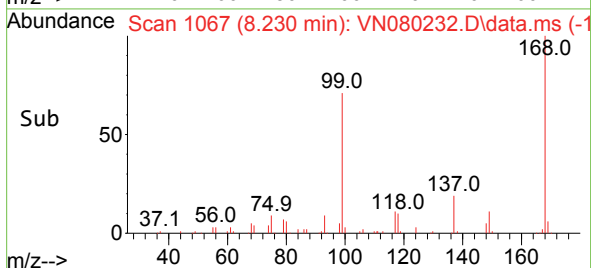
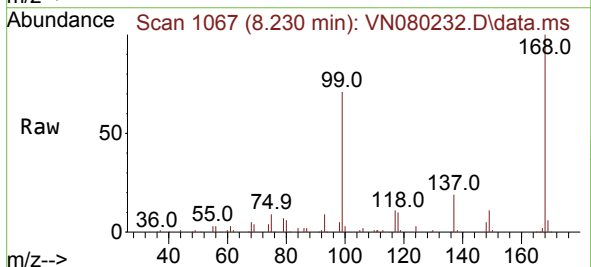


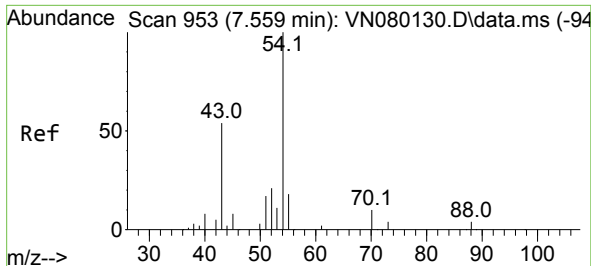
Tgt Ion:113 Resp: 107071
 Ion Ratio Lower Upper
 113 100
 111 104.9 82.6 123.8
 192 18.7 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.646 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

Tgt Ion: 75 Resp: 13760
 Ion Ratio Lower Upper
 75 100
 110 10.6 19.1 57.3#
 77 0.0 25.0 37.4#

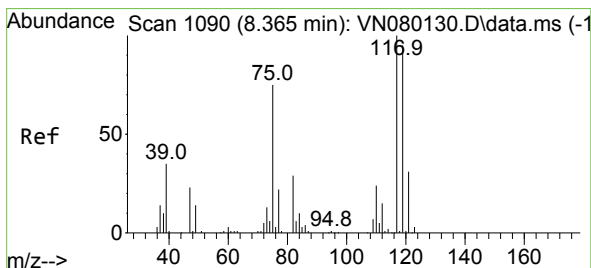
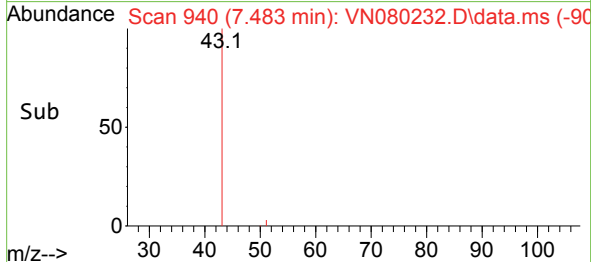
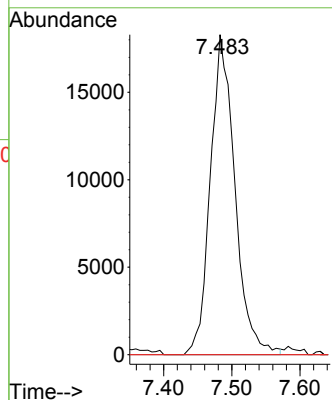
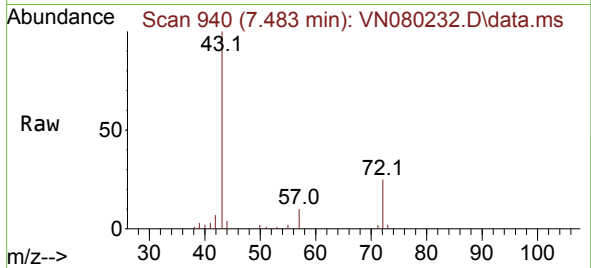




#37
Ethyl Acetate
Concen: 22.319 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.077 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

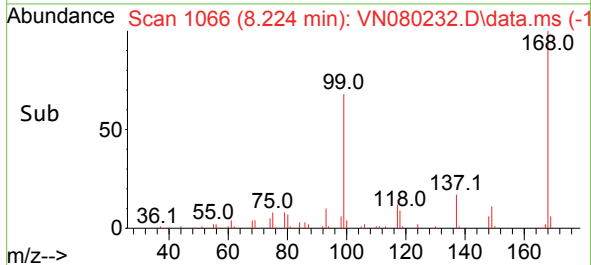
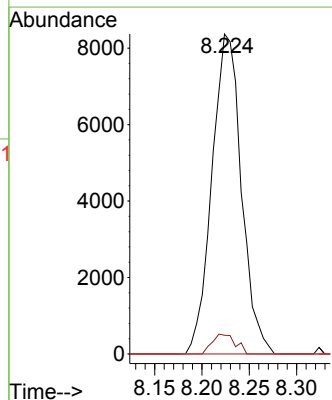
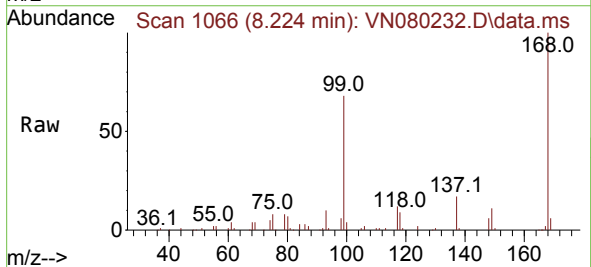
Instrument :
MSVOA_N
ClientSampleId :

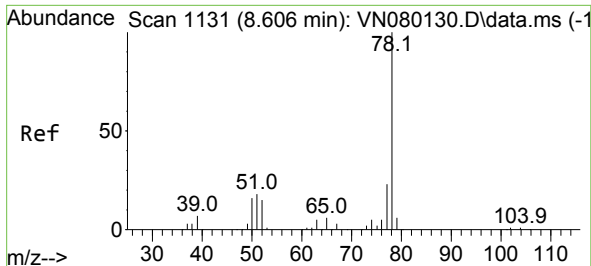
Tgt Ion: 43 Resp: 45853
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.825 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 117 Resp: 18136
Ion Ratio Lower Upper
117 100
119 5.8 77.3 115.9#
121 0.0 23.3 34.9#

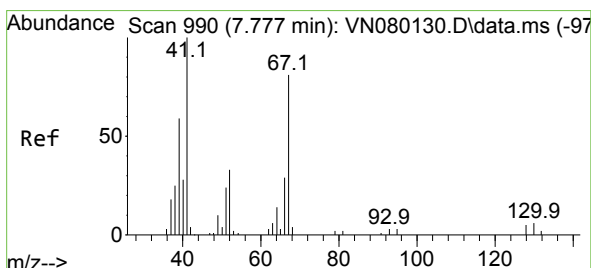
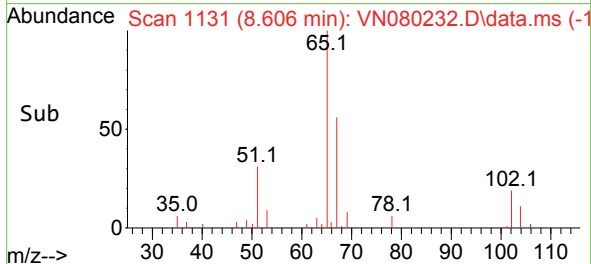
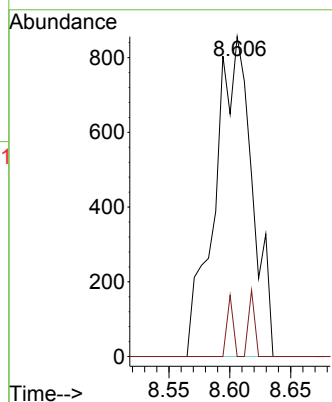
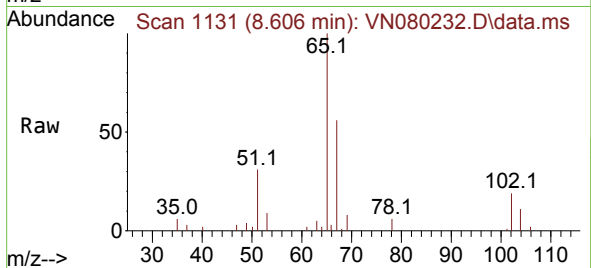




#40
Benzene
Concen: 0.217 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

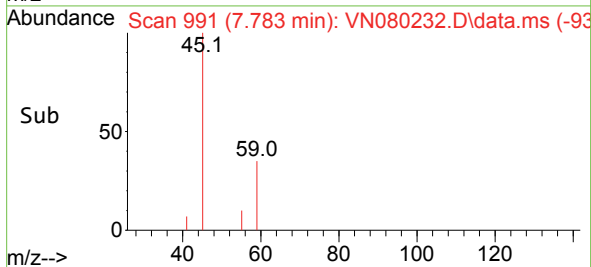
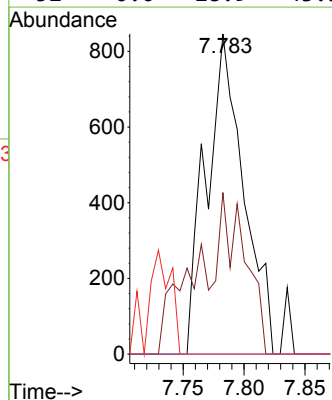
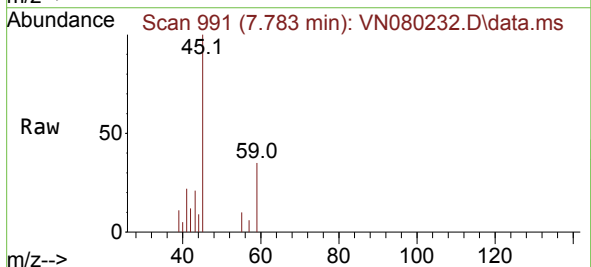
Instrument :
MSVOA_N
ClientSampleId :

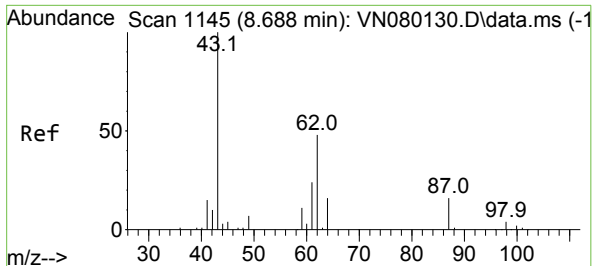
Tgt Ion: 78 Resp: 1826
Ion Ratio Lower Upper
78 100
77 0.0 19.0 28.6#



#41
Methacrylonitrile
Concen: 1.610 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 41 Resp: 1817
Ion Ratio Lower Upper
41 100
39 63.4 42.6 64.0
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#

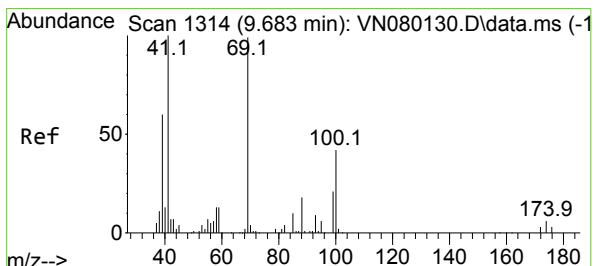
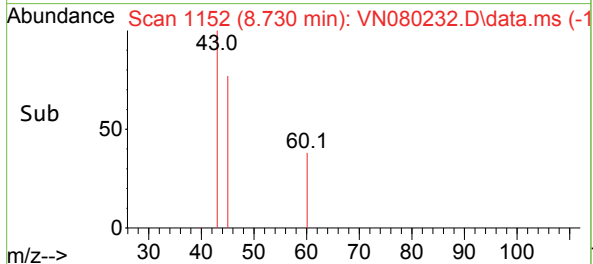
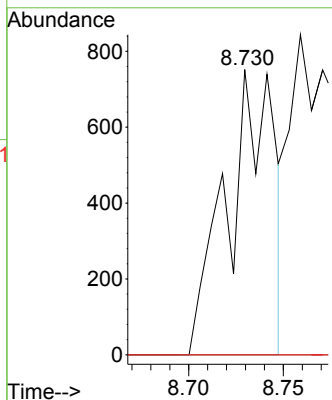
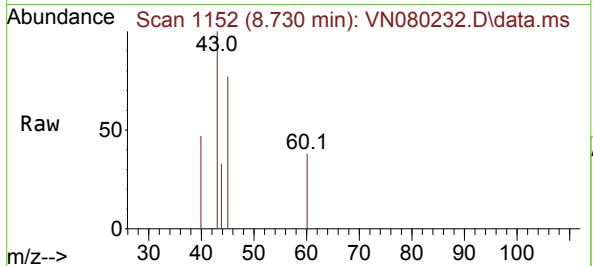




#43
Isopropyl Acetate
Concen: 0.325 ug/l
RT: 8.730 min Scan# 1145
Delta R.T. 0.041 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

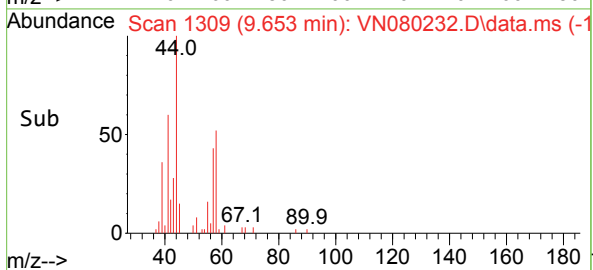
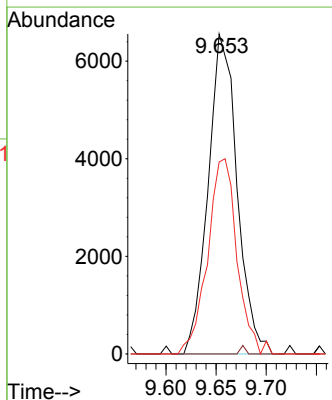
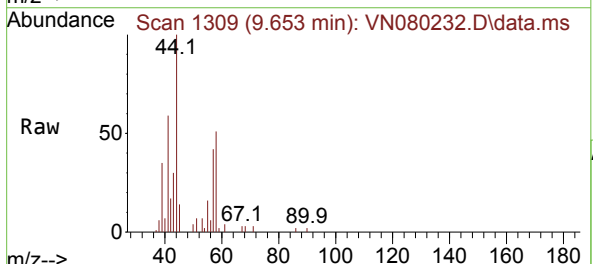
Instrument :
MSVOA_N
ClientSampleId :

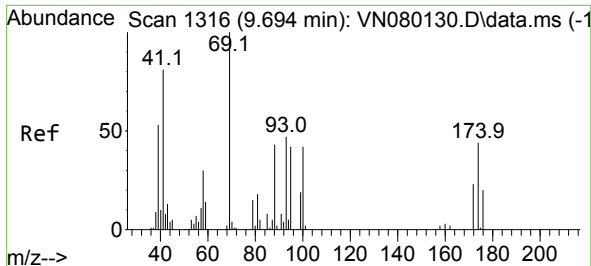
Tgt Ion: 43 Resp: 1299
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 6.395 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.029 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

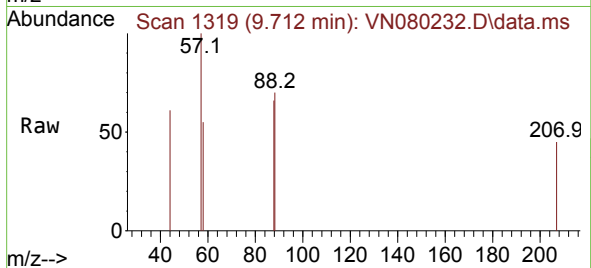
Tgt Ion: 41 Resp: 13175
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 62.0 54.6 81.8



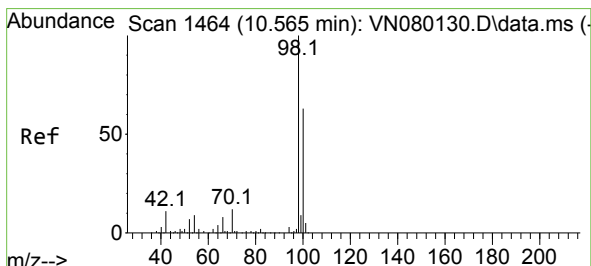
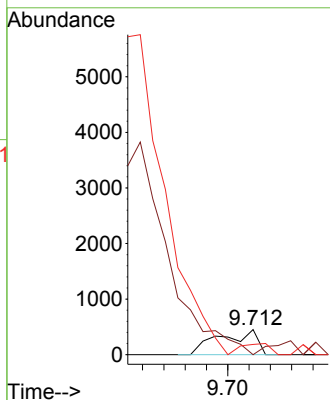
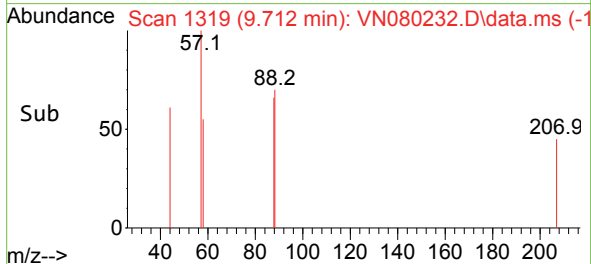


#49
1,4-Dioxane
Concen: 16.309 ug/l
RT: 9.712 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Instrument :
MSVOA_N
ClientSampleId :

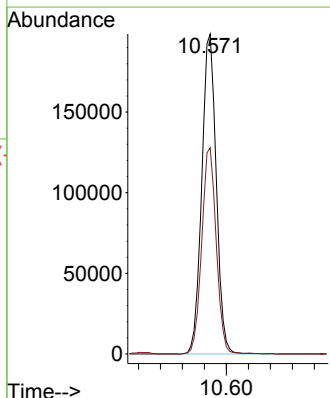
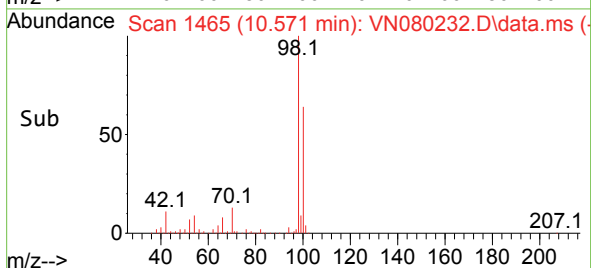
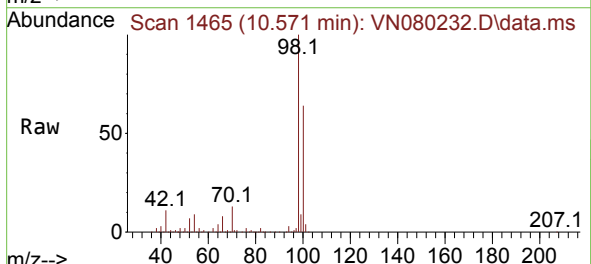


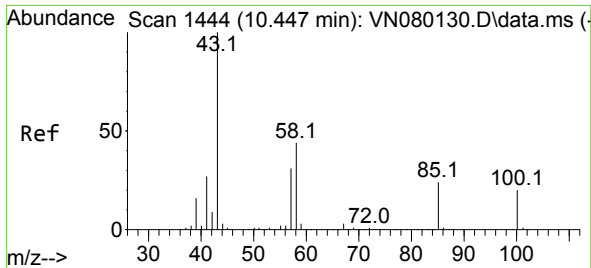
Tgt Ion: 88 Resp: 559
Ion Ratio Lower Upper
88 100
43 49.6 17.0 25.6#
58 0.0 47.0 70.4#



#50
Toluene-d8
Concen: 49.112 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 98 Resp: 362177
Ion Ratio Lower Upper
98 100
100 64.6 52.0 78.0

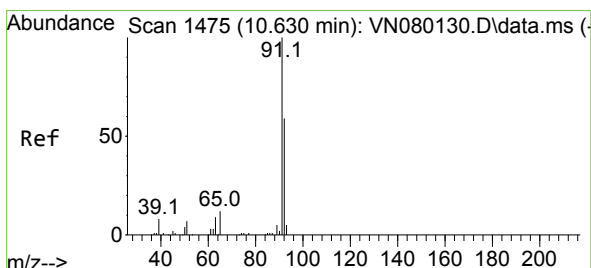
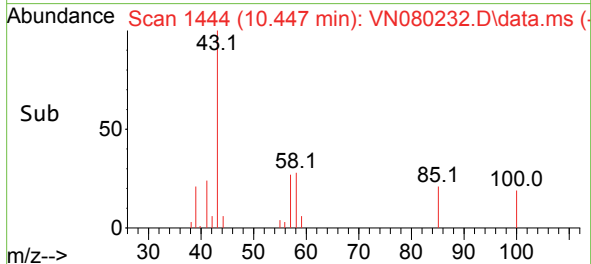
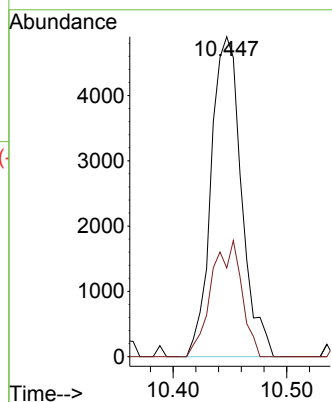
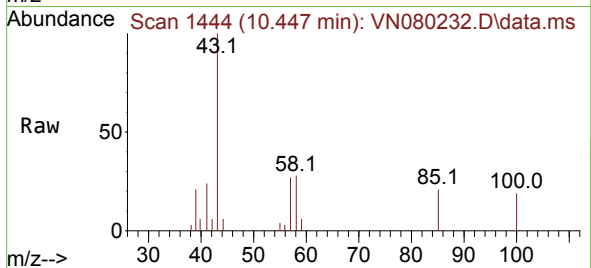




#51
4-Methyl-2-Pentanone
Concen: 4.392 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

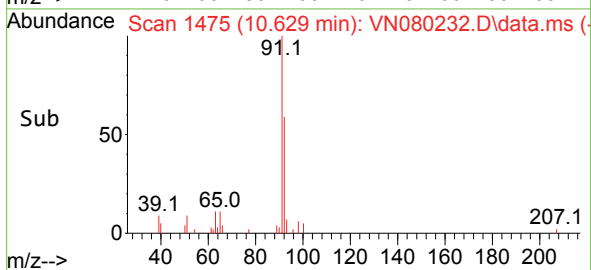
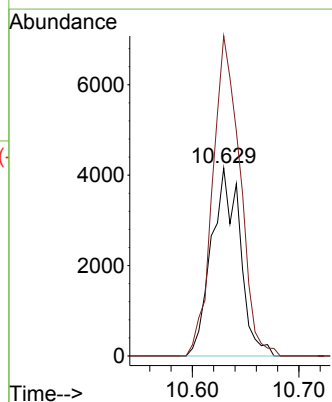
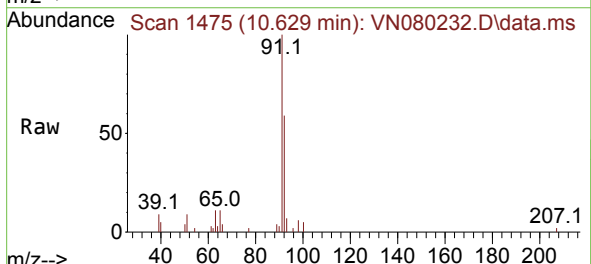
Instrument :
MSVOA_N
ClientSampleId :

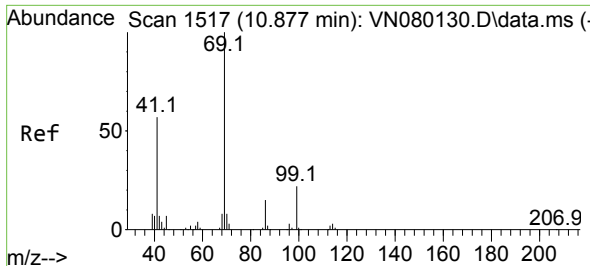
Tgt Ion: 43 Resp: 9091
Ion Ratio Lower Upper
43 100
58 36.1 36.6 54.8#



#52
Toluene
Concen: 1.477 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 92 Resp: 7779
Ion Ratio Lower Upper
92 100
91 162.1 137.4 206.0

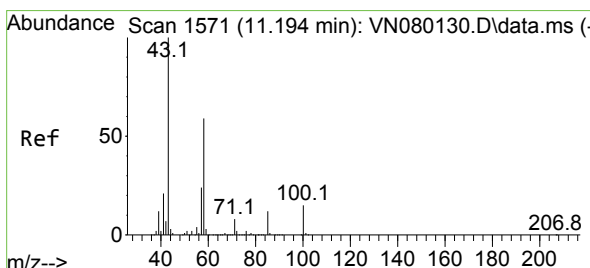
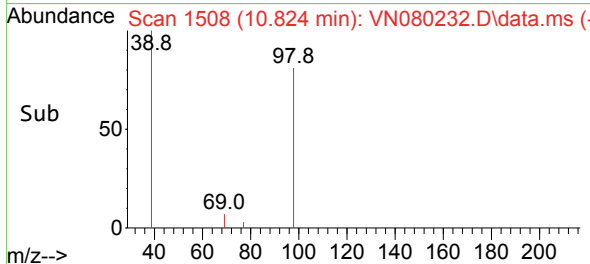
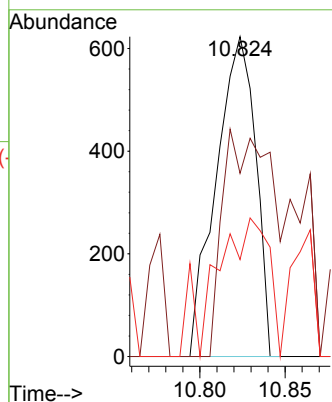
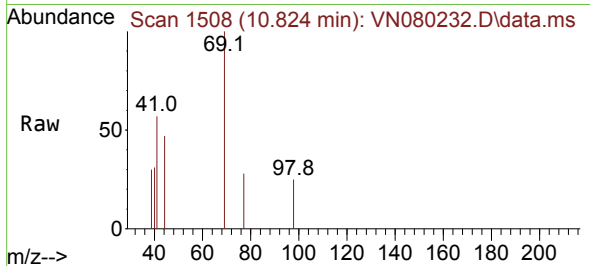




#56
Ethyl methacrylate
Concen: 0.489 ug/l
RT: 10.824 min Scan# 11
Delta R.T. -0.053 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

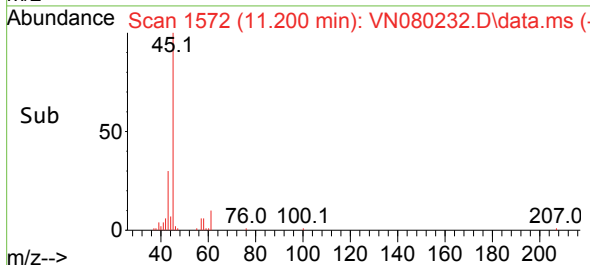
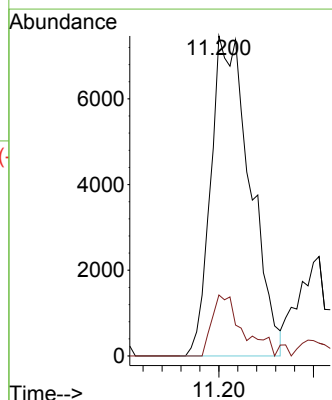
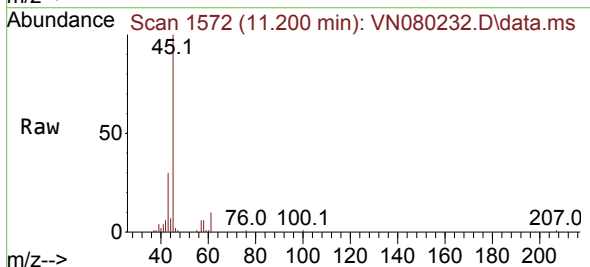
Instrument :
MSVOA_N
ClientSampleId :

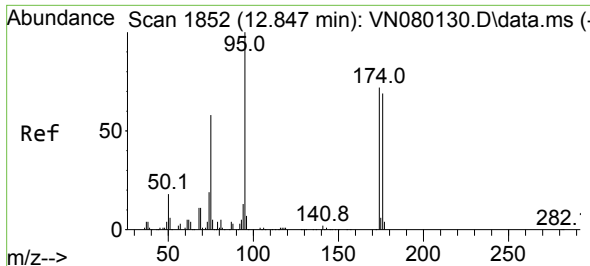
Tgt Ion: 69 Resp: 1004
Ion Ratio Lower Upper
69 100
41 87.7 39.6 59.4#
39 59.2 28.6 43.0#



#59
2-Hexanone
Concen: 12.924 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 43 Resp: 21495
Ion Ratio Lower Upper
43 100
58 14.7 31.7 95.1#

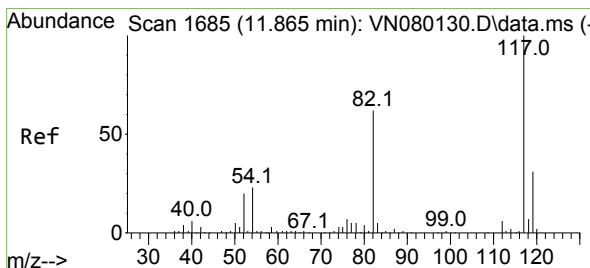
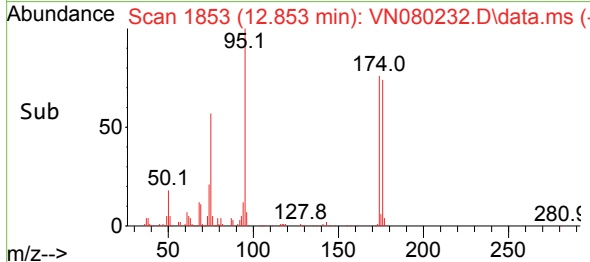
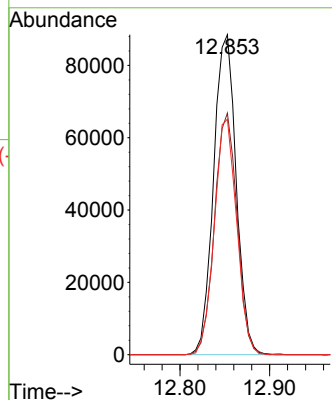
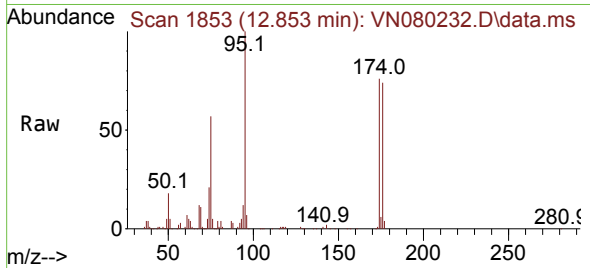




#62
4-Bromofluorobenzene
Concen: 55.584 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

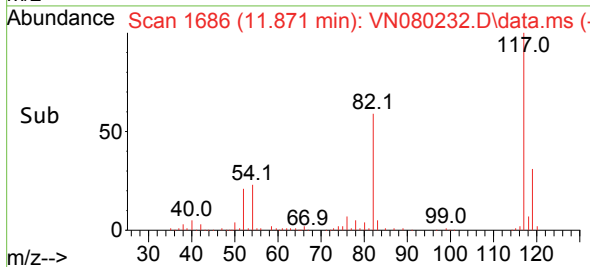
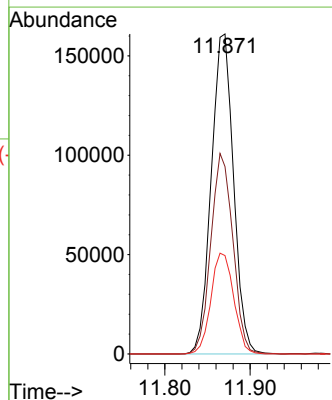
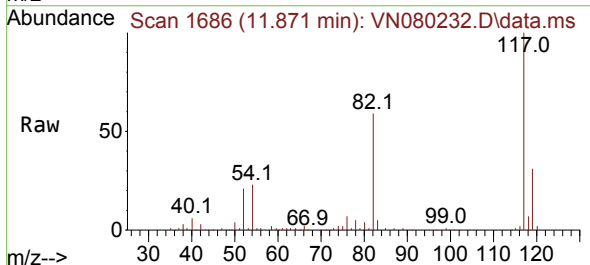
Instrument :
MSVOA_N
ClientSampleId :

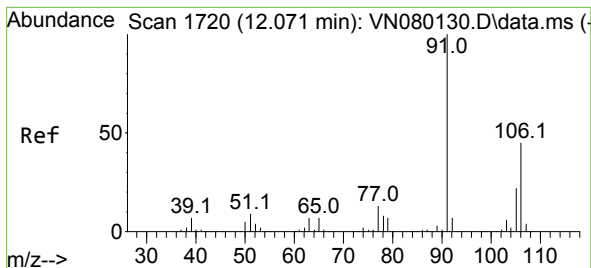
Tgt Ion: 95 Resp: 154828
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 72.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Tgt Ion: 117 Resp: 292054
Ion Ratio Lower Upper
117 100
82 58.6 44.0 66.0
119 30.8 25.6 38.4

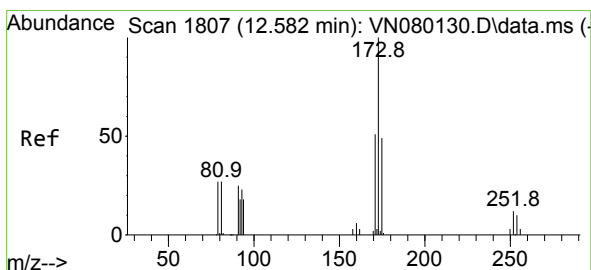
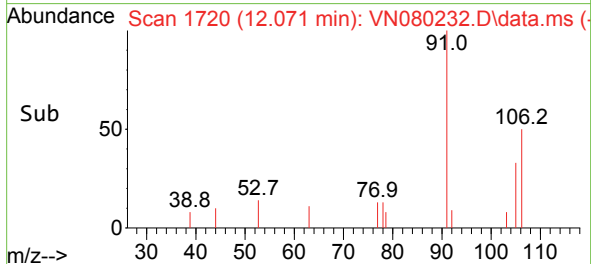
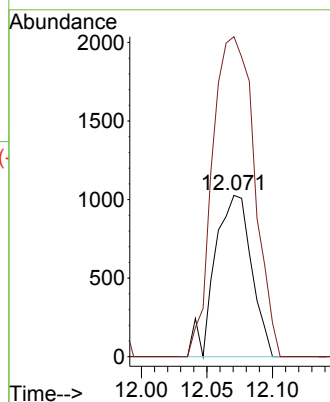
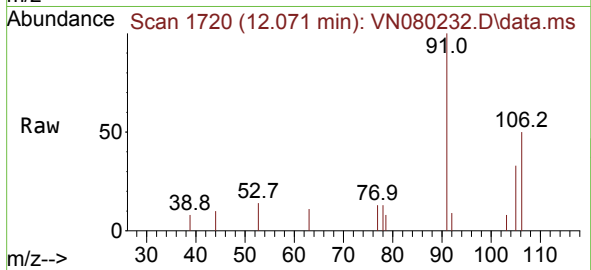




#68
m/p-Xylenes
Concen: 0.466 ug/l
RT: 12.071 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

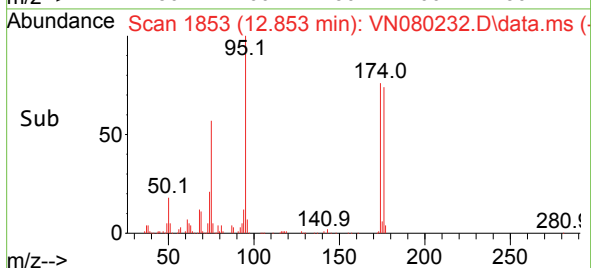
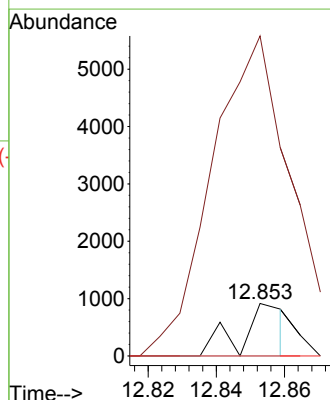
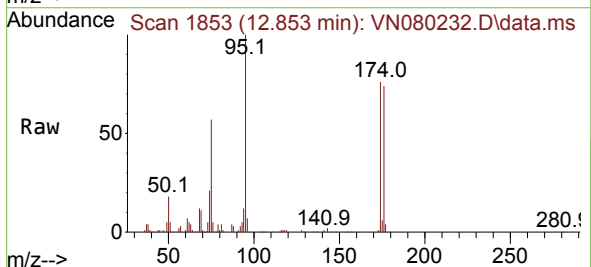
Instrument :
MSVOA_N
ClientSampleId :

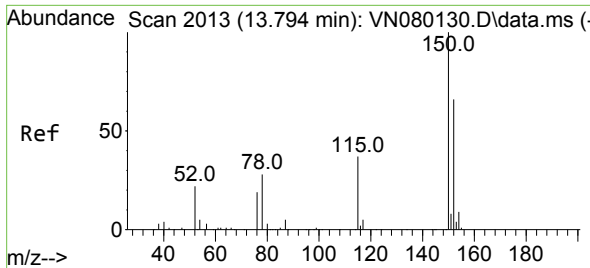
Tgt Ion:106 Resp: 2000
Ion Ratio Lower Upper
106 100
91 225.6 159.6 239.4



#71
Bromoform
Concen: 0.431 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

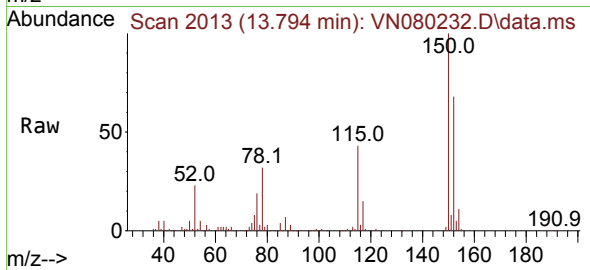
Tgt Ion:173 Resp: 820
Ion Ratio Lower Upper
173 100
175 924.0 24.3 73.0#
254 0.0 0.0 0.0



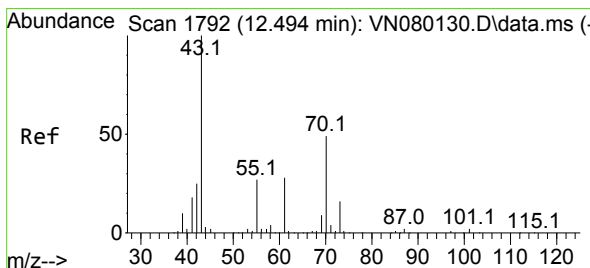
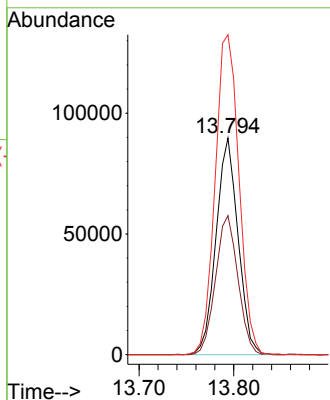
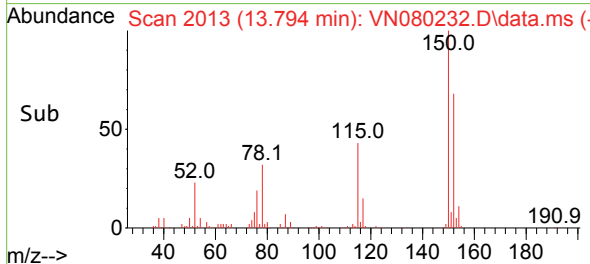


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

Instrument :
 MSVOA_N
 ClientSampleId :

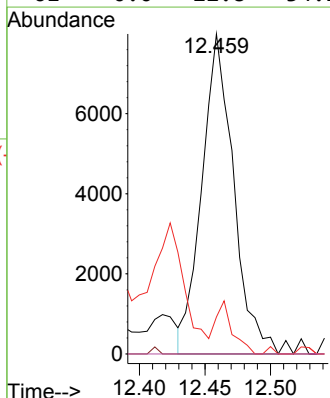
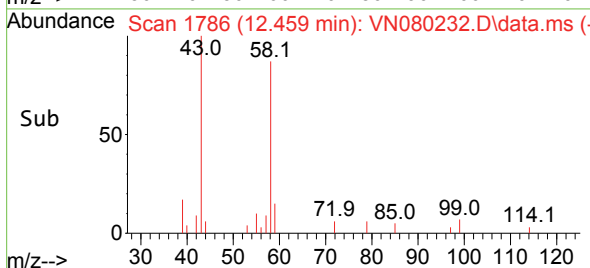
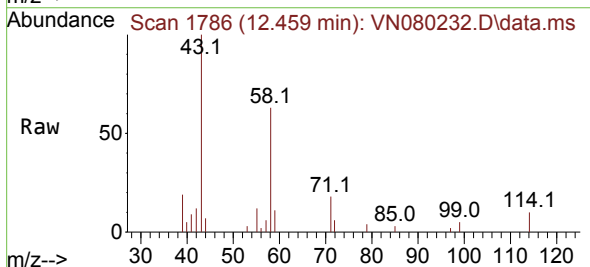


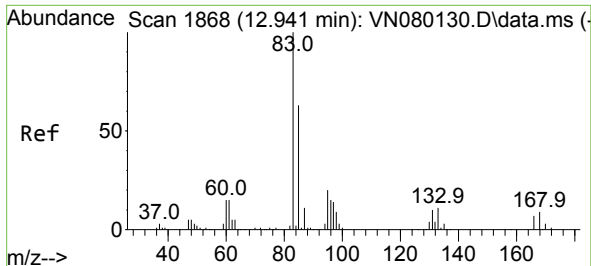
Tgt Ion:152 Resp: 144947
 Ion Ratio Lower Upper
 152 100
 115 65.5 32.3 96.8
 150 159.8 0.0 355.8



#74
 N-ethyl acetate
 Concen: 3.820 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN080232.D
 Acq: 21 Nov 2023 15:16

Tgt Ion: 43 Resp: 13418
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 8.7 21.4 32.0#
 61 0.0 22.8 34.2#

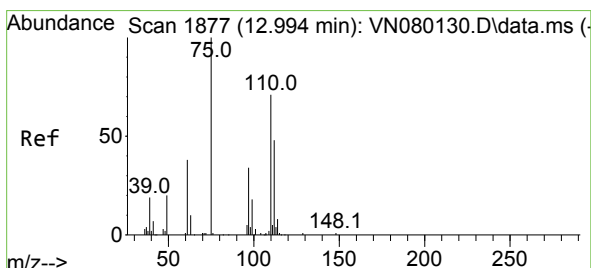
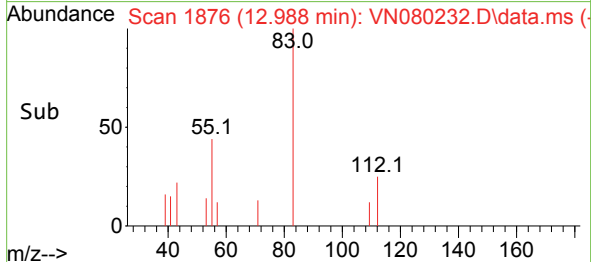
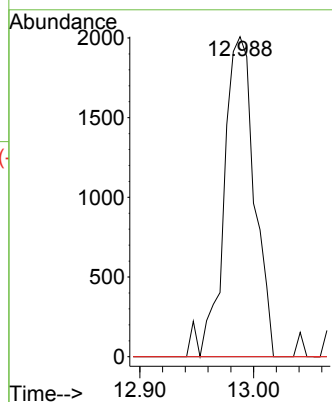
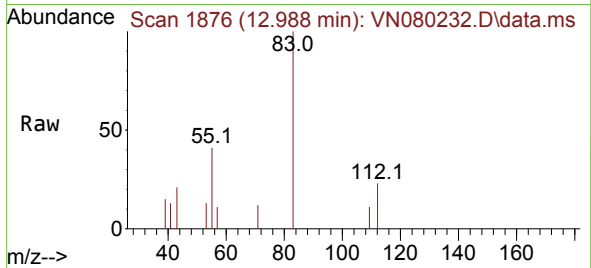




#75
1,1,2,2-Tetrachloroethane
Concen: 1.114 ug/l
RT: 12.988 min Scan# 1852
Delta R.T. 0.047 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

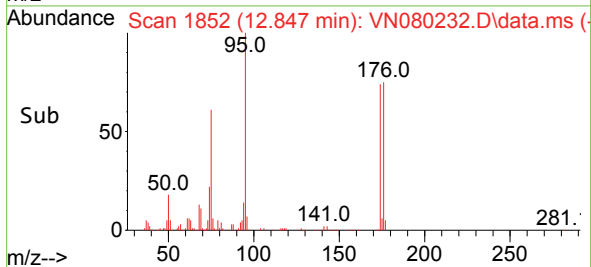
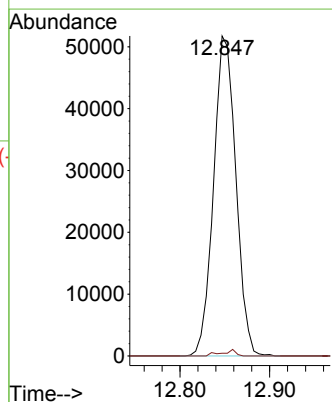
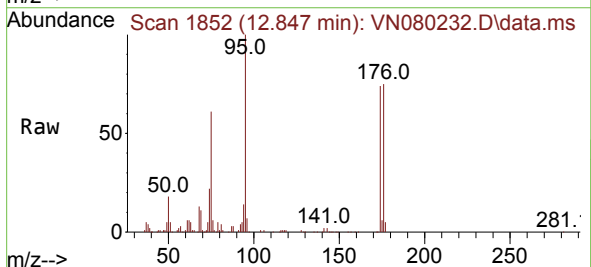
Instrument :
MSVOA_N
ClientSampleId :

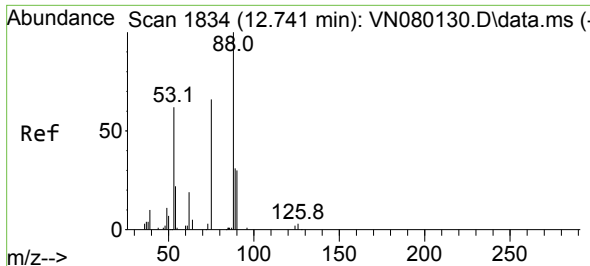
Tgt Ion: 83 Resp: 3756
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 25.189 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

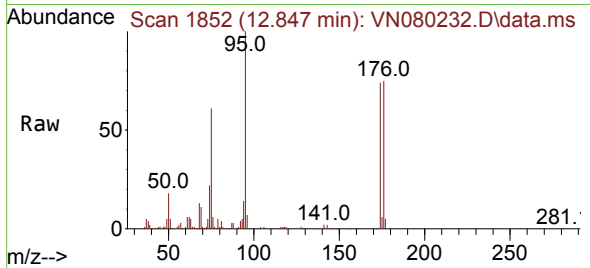
Tgt Ion: 75 Resp: 89456
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



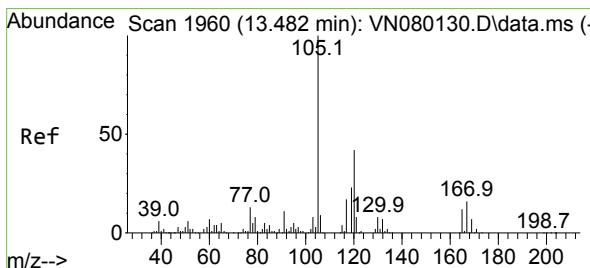
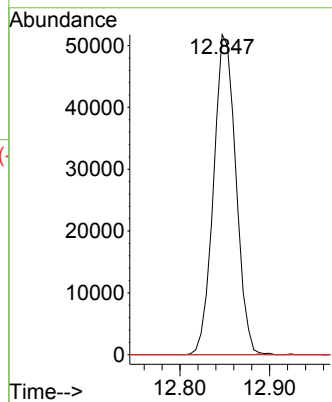
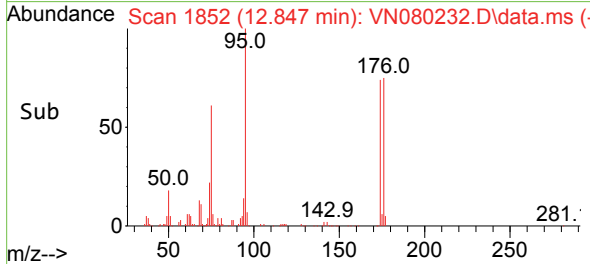


#81
trans-1,4-Dichloro-2-butene
Concen: 85.102 ug/l
RT: 12.847 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

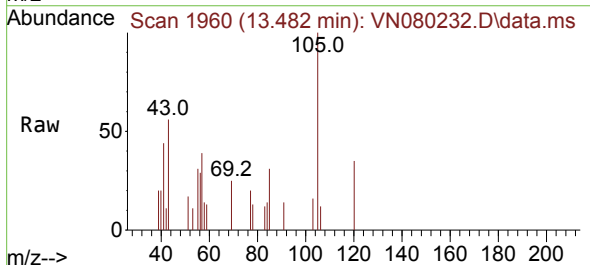
Instrument :
MSVOA_N
ClientSampleId :



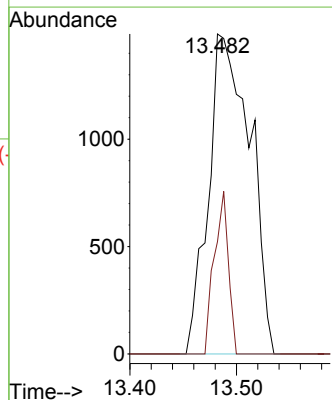
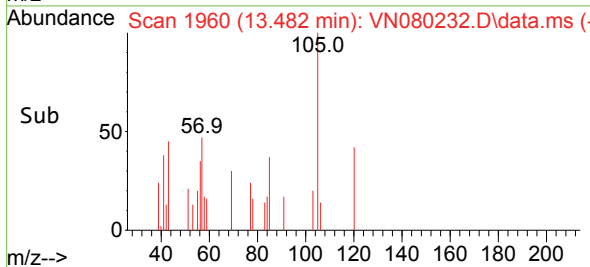
Tgt Ion: 75 Resp: 89456
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

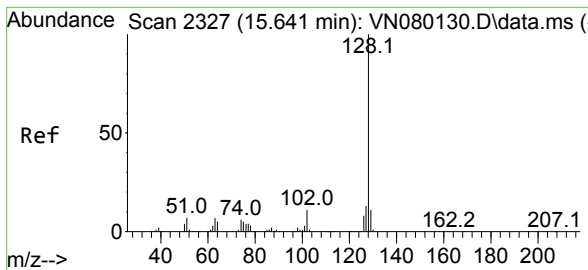


#84
1,2,4-Trimethylbenzene
Concen: 0.419 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16



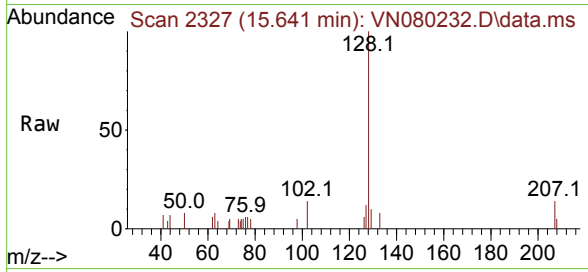
Tgt Ion: 105 Resp: 4045
Ion Ratio Lower Upper
105 100
120 17.2 22.0 66.0#





#95
Naphthalene
Concen: 0.810 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN080232.D
Acq: 21 Nov 2023 15:16

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 6688
Ion Ratio Lower Upper
128 100
127 12.2 10.0 15.0
129 8.7 8.7 13.1

