

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080418.D
 Acq On : 08 Dec 2023 19:56
 Operator : JC\MD
 Sample : 05639-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:46:01 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

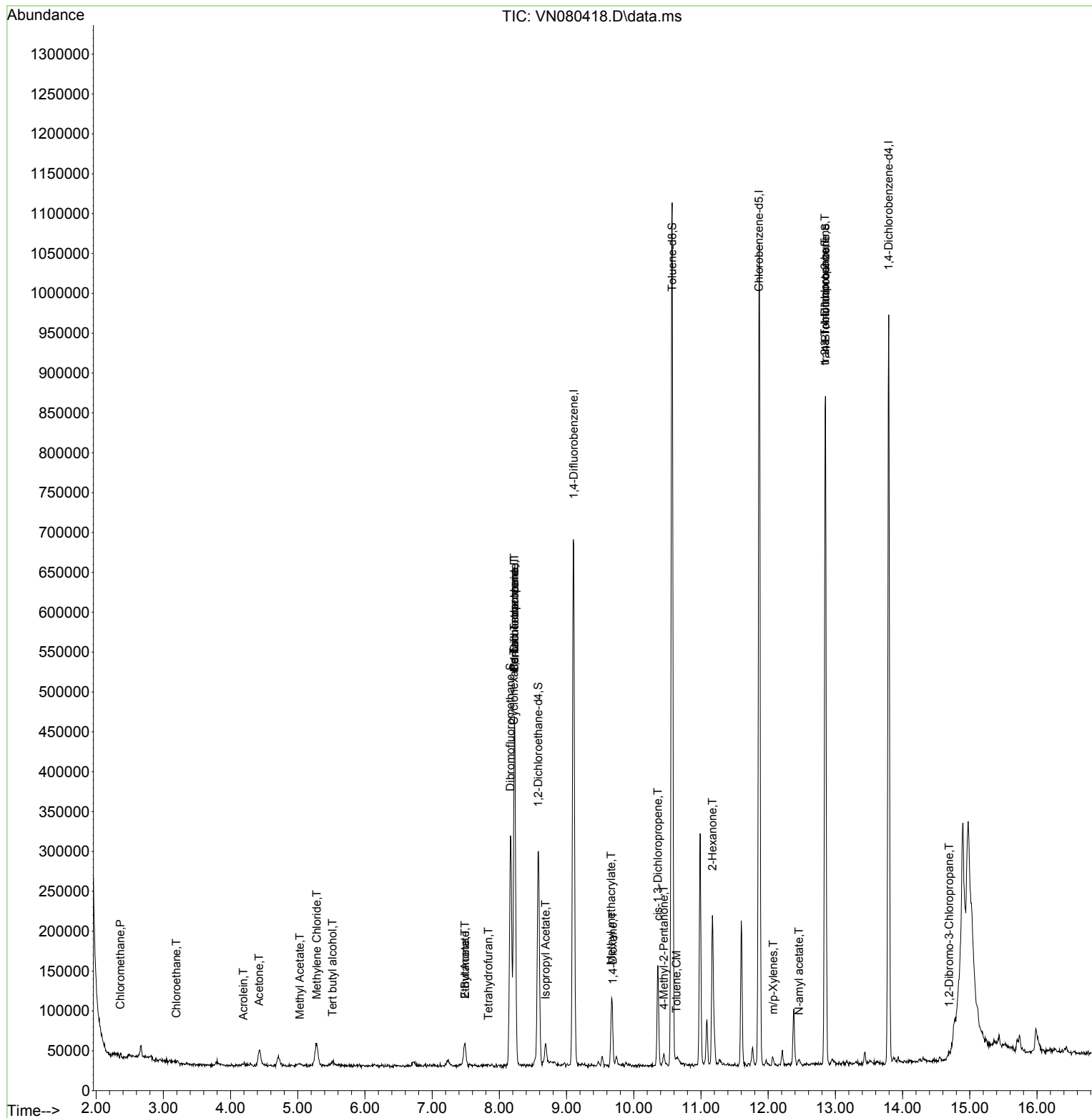
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	319374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	575781	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	606564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	250585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	237212	44.983	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.960%		
35) Dibromofluoromethane	8.165	113	207336	48.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.600%		
50) Toluene-d8	10.571	98	775188	50.616	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.240%		
62) 4-Bromofluorobenzene	12.853	95	313957	54.273	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	108.540%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	4216	1.179	ug/l #	68
6) Chloroethane	3.195	64	5346	1.093	ug/l #	59
11) Tert butyl alcohol	5.518	59	9019	15.552	ug/l #	90
13) Acrolein	4.189	56	3720	7.248	ug/l	94
16) Acetone	4.424	43	36286	20.487	ug/l	95
18) Methyl Acetate	5.030	43	4061	0.714	ug/l	95
20) Methylene Chloride	5.283	84	24839	6.697	ug/l	96
25) 2-Butanone	7.488	43	44118	20.965	ug/l #	86
29) Tetrahydrofuran	7.835	42	485	0.429	ug/l #	20
31) Cyclohexane	8.218	56	5914	1.031	ug/l #	24
36) 1,1-Dichloropropene	8.224	75	25163	4.091	ug/l #	52
37) Ethyl Acetate	7.488	43	44118	10.340	ug/l #	63
38) Carbon Tetrachloride	8.224	117	33765	4.326	ug/l #	16
43) Isopropyl Acetate	8.688	43	33629	4.050	ug/l #	80
48) Methyl methacrylate	9.665	41	5172	1.209	ug/l #	33
49) 1,4-Dioxane	9.688	88	312	4.383	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	10815	2.516	ug/l	90
52) Toluene	10.635	92	2849	0.260	ug/l	94
54) cis-1,3-Dichloropropene	10.359	75	23725	3.341	ug/l #	66
59) 2-Hexanone	11.171	43	155950	45.150	ug/l #	19
68) m/p-Xylenes	12.076	106	2835	0.318	ug/l	80
74) N-amyl acetate	12.459	43	5779	0.952	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	163663	26.656	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	163663	90.060	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.694	75	929	0.686	ug/l #	4

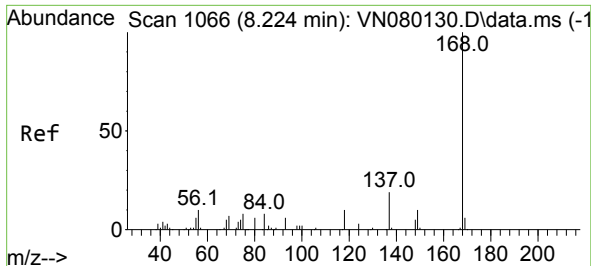
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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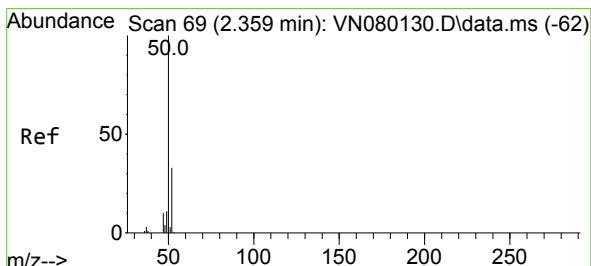
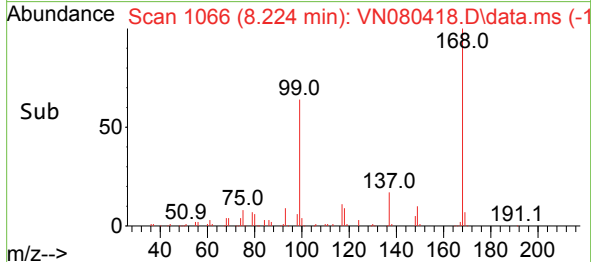
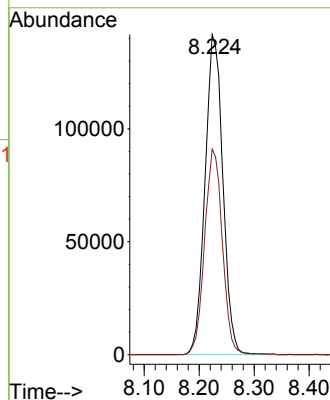
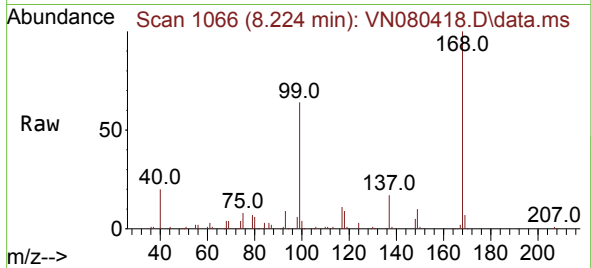




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

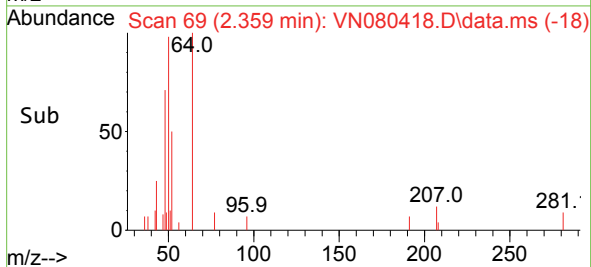
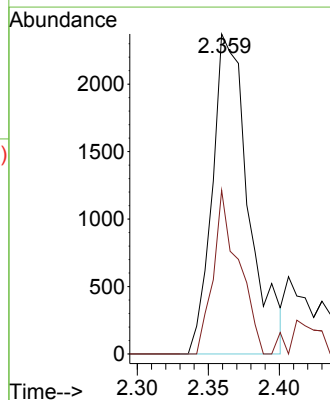
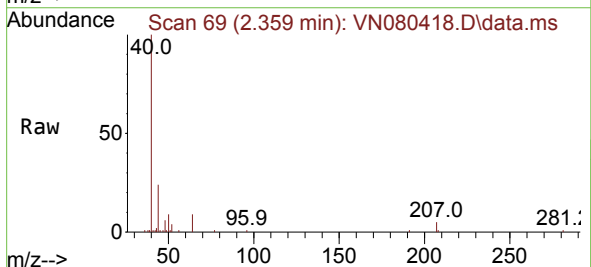
Instrument :
MSVOA_N
ClientSampleId :

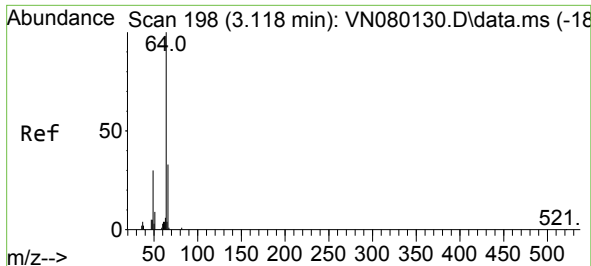
Tgt Ion:168 Resp: 319374
Ion Ratio Lower Upper
168 100
99 64.2 53.0 79.6



#3
Chloromethane
Concen: 1.179 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 50 Resp: 4216
Ion Ratio Lower Upper
50 100
52 51.1 26.5 39.7#

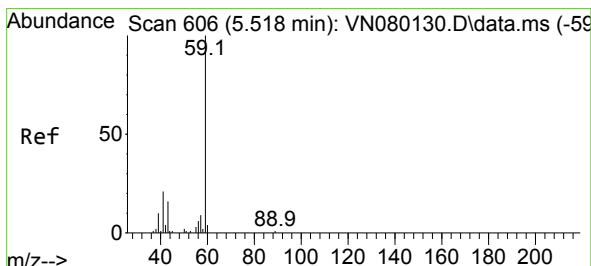
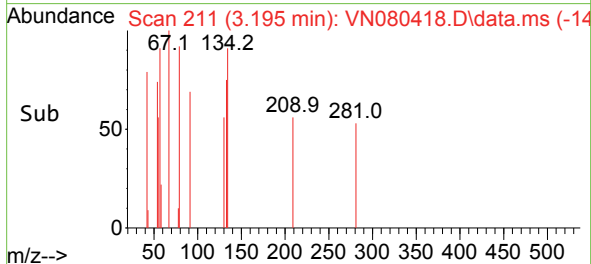
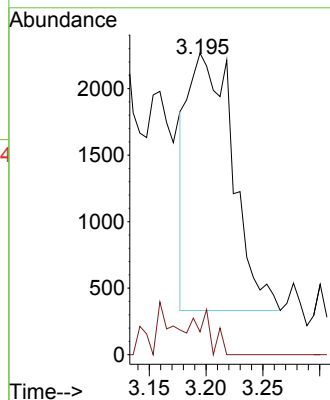
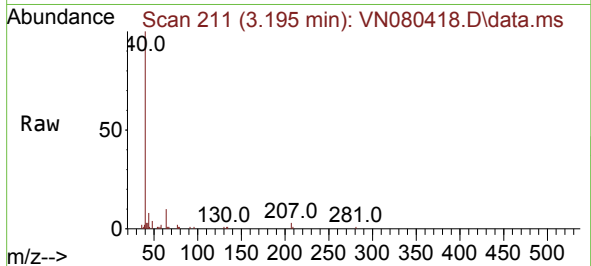




#6
Chloroethane
Concen: 1.093 ug/l
RT: 3.195 min Scan# 211
Delta R.T. 0.077 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

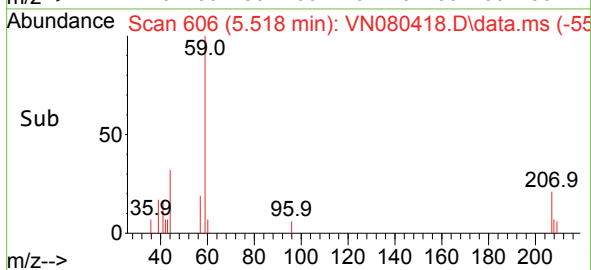
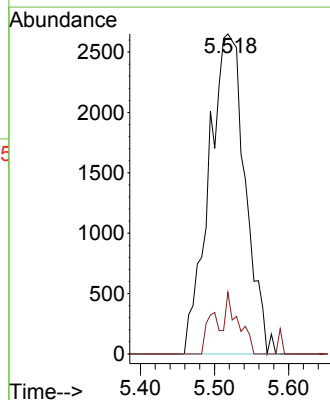
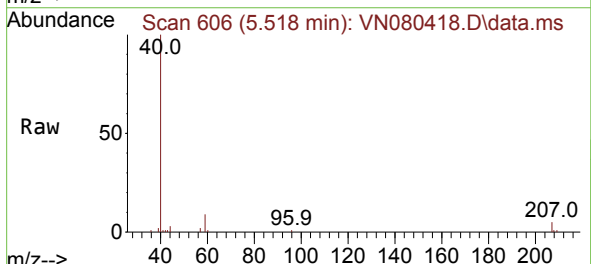
Instrument :
MSVOA_N
ClientSampleId :

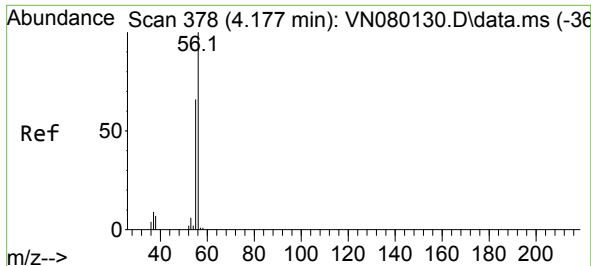
Tgt Ion: 64 Resp: 5346
Ion Ratio Lower Upper
64 100
66 8.9 25.4 38.2#



#11
Tert butyl alcohol
Concen: 15.552 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 59 Resp: 9019
Ion Ratio Lower Upper
59 100
57 6.6 8.2 12.4#





#13

Acrolein

Concen: 7.248 ug/l

RT: 4.189 min Scan# 378

Delta R.T. 0.012 min

Lab File: VN080418.D

Acq: 08 Dec 2023 19:56

Instrument :

MSVOA_N

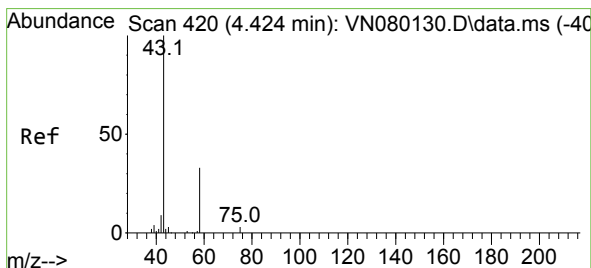
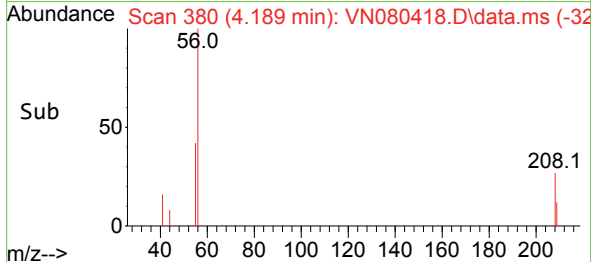
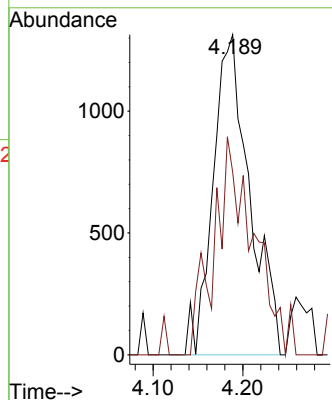
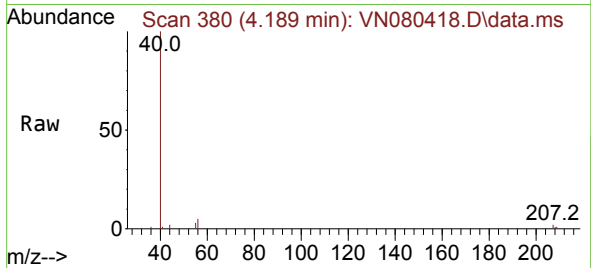
ClientSampleId :

Tgt Ion: 56 Resp: 3720

Ion Ratio Lower Upper

56 100

55 63.1 54.5 81.7



#16

Acetone

Concen: 20.487 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN080418.D

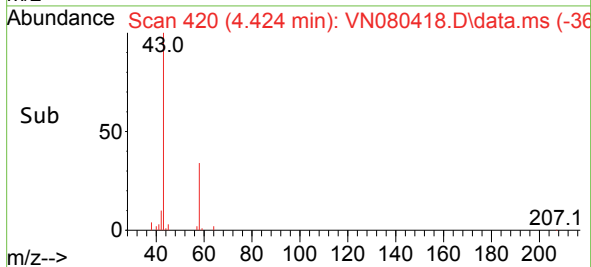
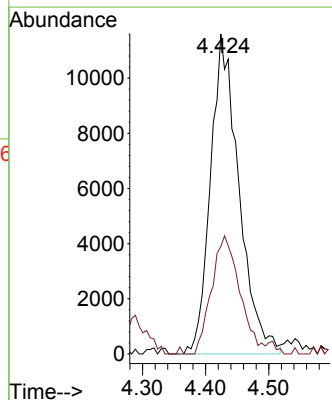
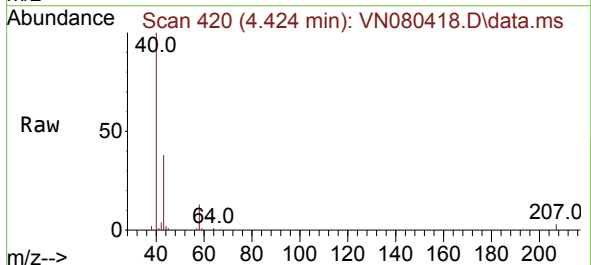
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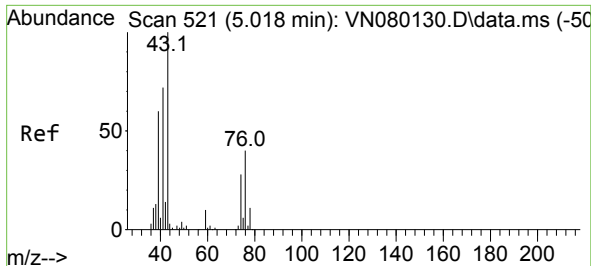
Tgt Ion: 43 Resp: 36286

Ion Ratio Lower Upper

43 100

58 31.9 28.0 42.0

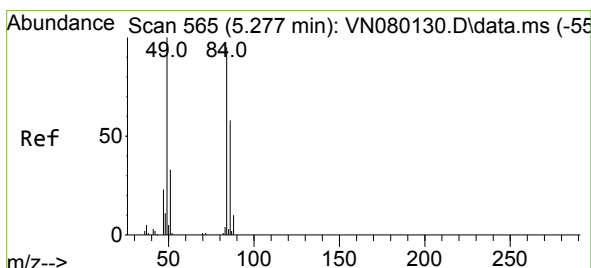
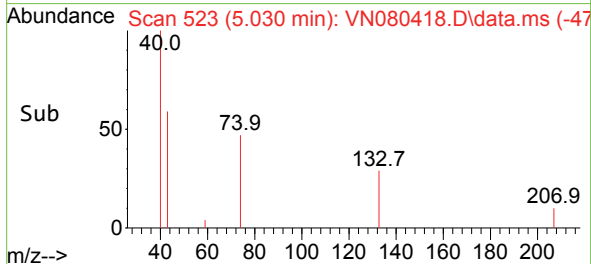
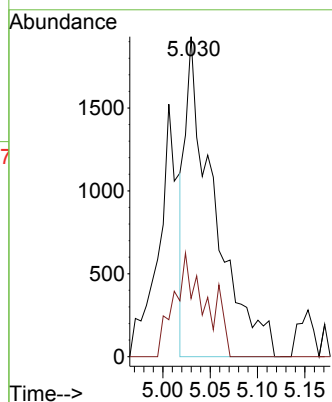
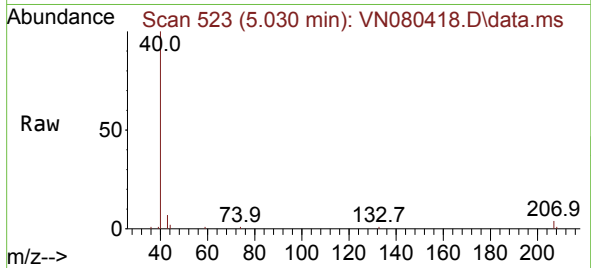




#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

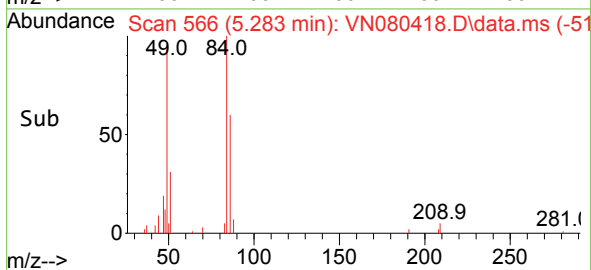
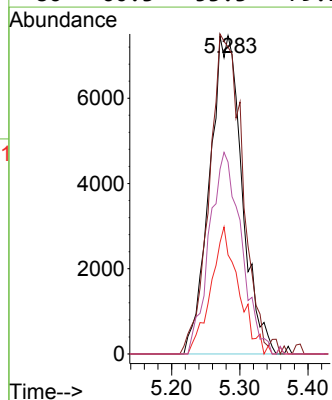
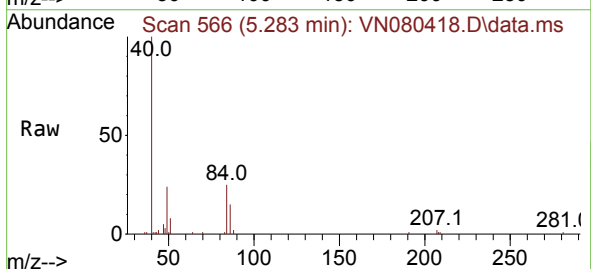
Instrument :
MSVOA_N
ClientSampleId :

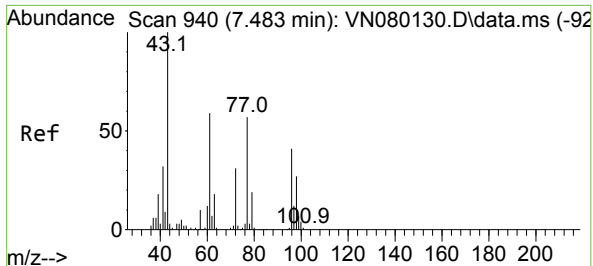
Tgt Ion: 43 Resp: 4061
Ion Ratio Lower Upper
43 100
74 29.8 26.2 39.4



#20
Methylene Chloride
Concen: 6.697 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 84 Resp: 24839
Ion Ratio Lower Upper
84 100
49 96.5 79.7 119.5
51 31.1 25.2 37.8
86 60.3 53.3 79.9

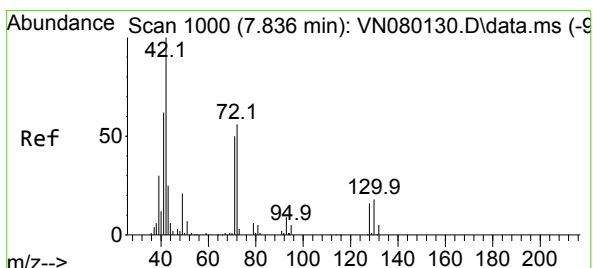
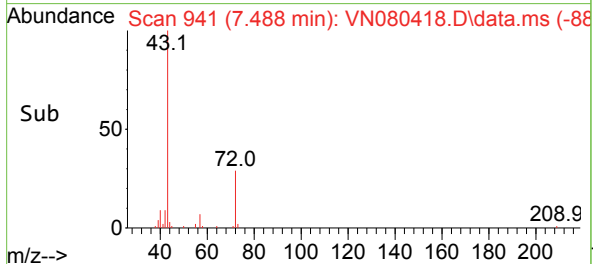
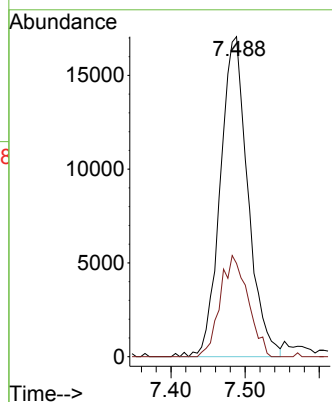
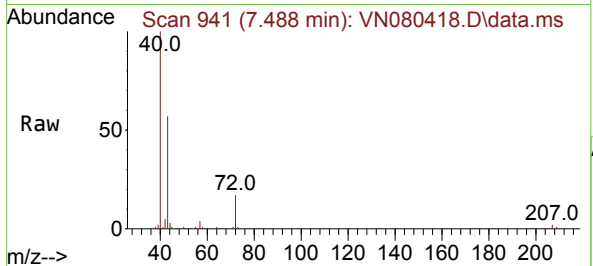




#25
2-Butanone
Concen: 20.965 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

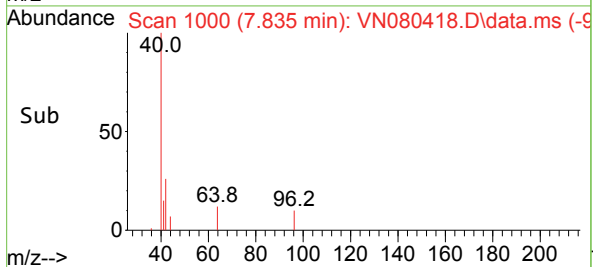
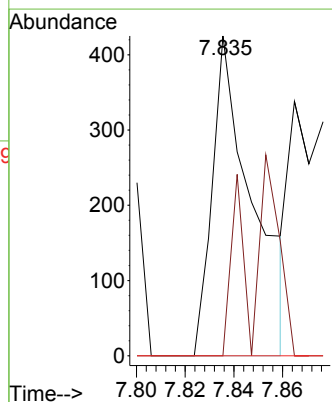
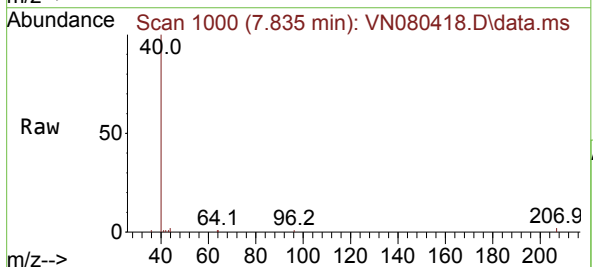
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MSVOA_N
ClientSampleId :

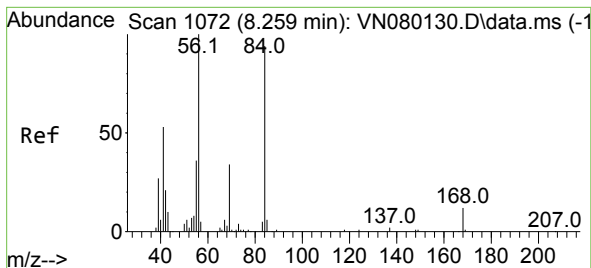
Tgt Ion: 43 Resp: 44118
Ion Ratio Lower Upper
43 100
72 29.1 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.429 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 42 Resp: 485
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.031 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

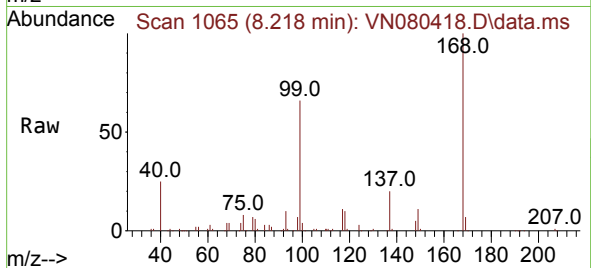
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Instrument :

MSVOA_N

ClientSampleId :



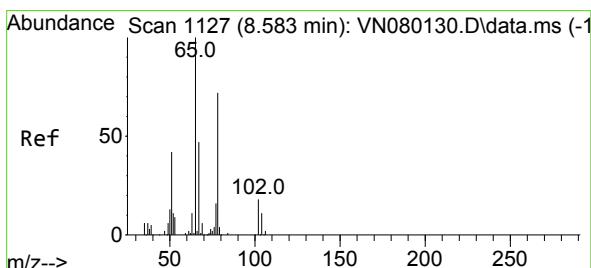
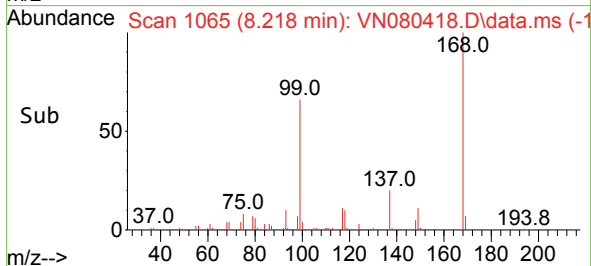
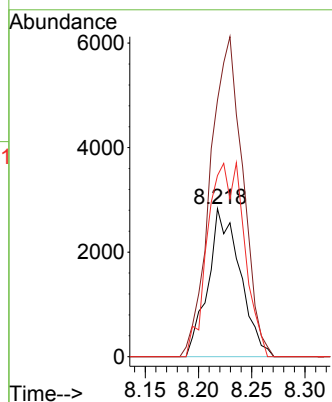
Tgt Ion: 56 Resp: 5914

Ion Ratio Lower Upper

56 100

69 173.3 26.8 40.2#

84 122.5 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 44.983 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN080418.D

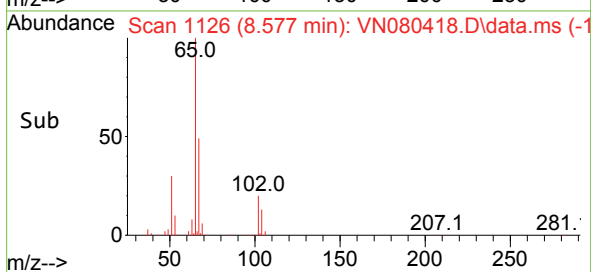
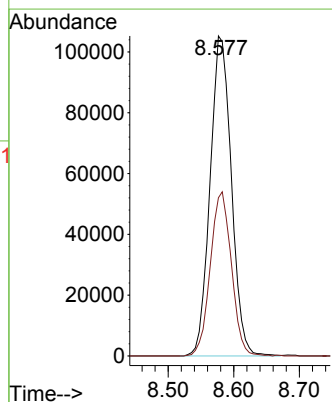
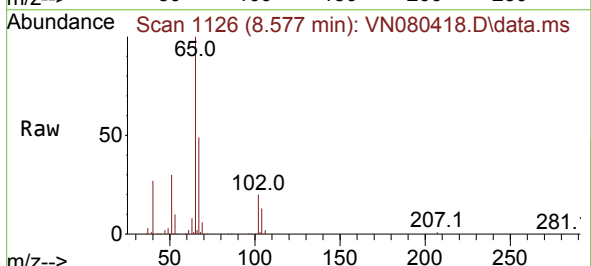
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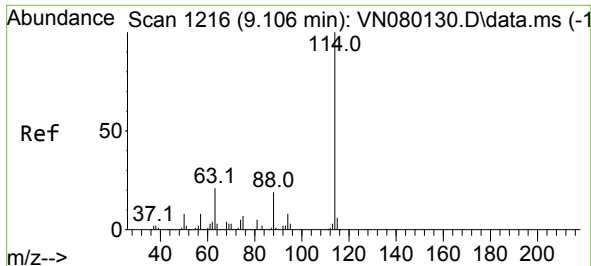
Tgt Ion: 65 Resp: 237212

Ion Ratio Lower Upper

65 100

67 50.8 0.0 106.6

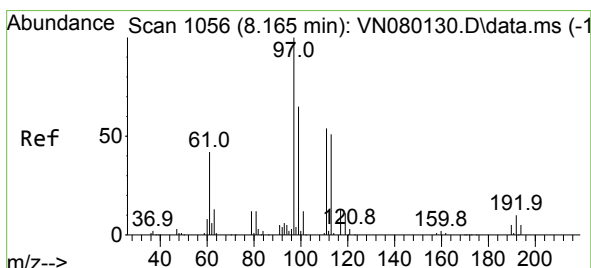
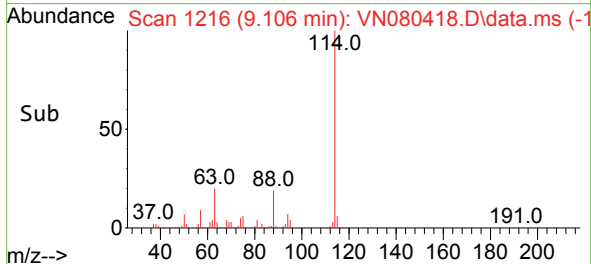
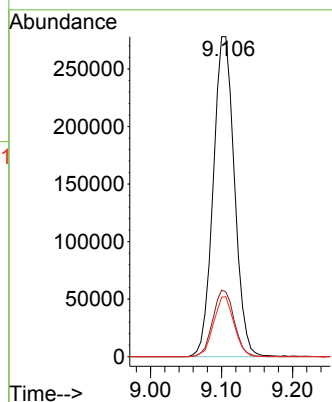
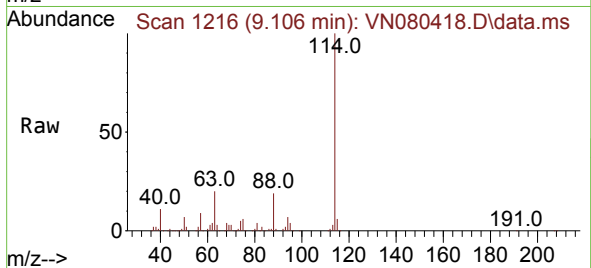




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

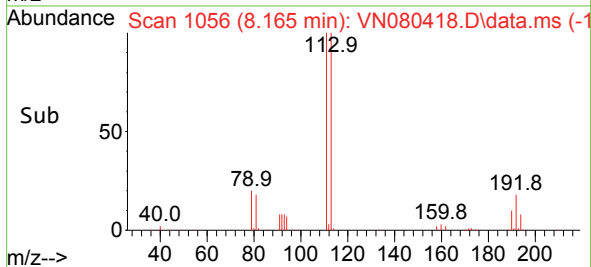
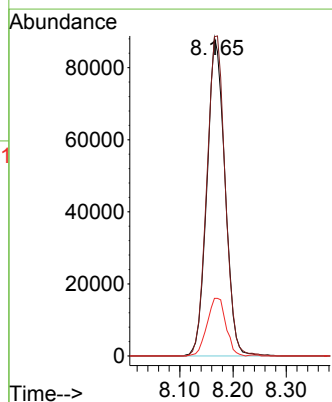
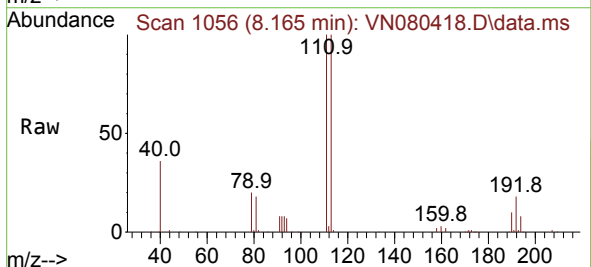
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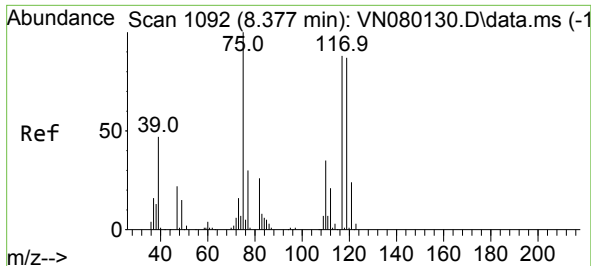
Tgt Ion:114 Resp: 575781
Ion Ratio Lower Upper
114 100
63 20.3 0.0 36.4
88 18.8 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.802 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

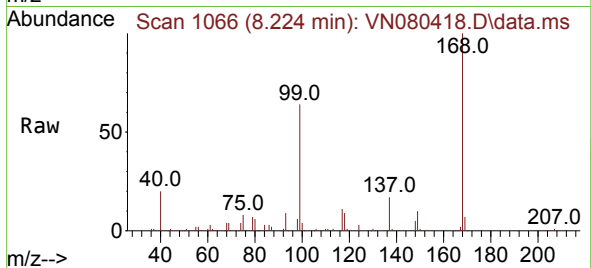
Tgt Ion:113 Resp: 207336
Ion Ratio Lower Upper
113 100
111 102.4 82.6 123.8
192 19.0 12.7 19.1



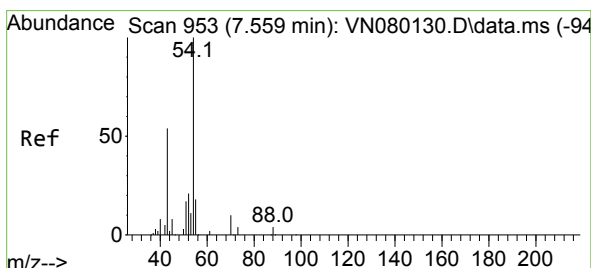
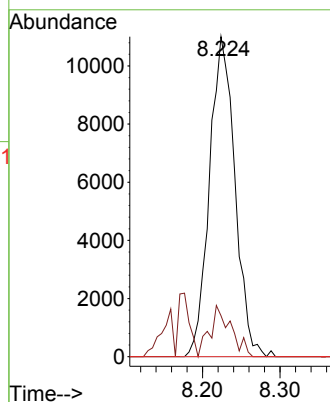
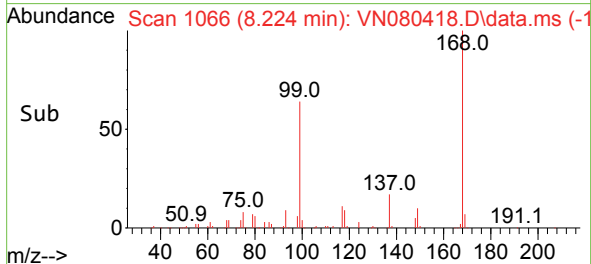


#36
1,1-Dichloropropene
Concen: 4.091 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Instrument :
MSVOA_N
ClientSampleId :

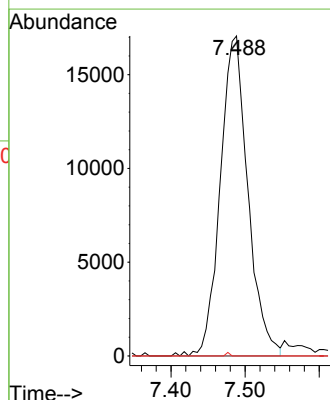
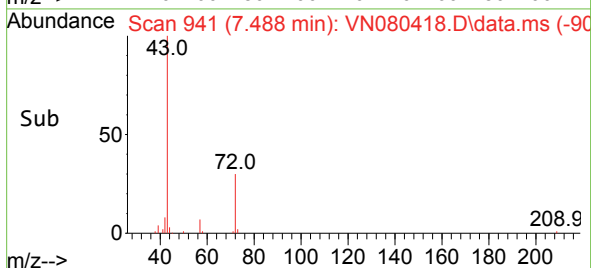
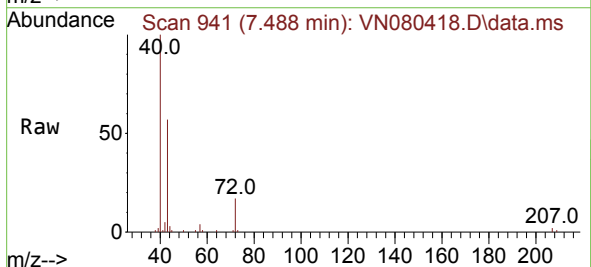


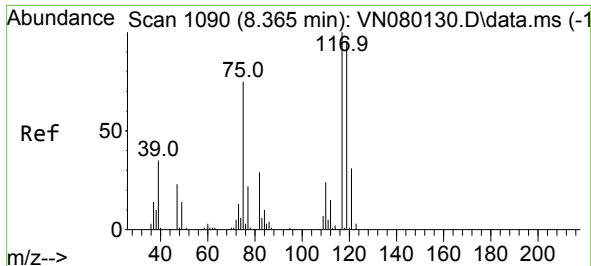
Tgt Ion: 75 Resp: 25163
Ion Ratio Lower Upper
75 100
110 13.2 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.340 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.071 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

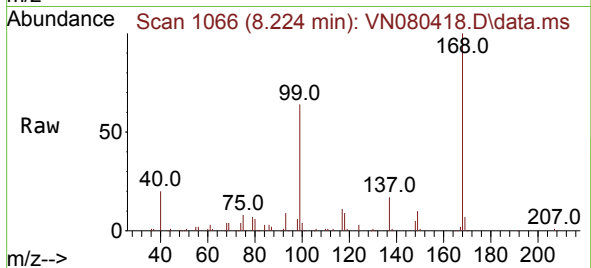
Tgt Ion: 43 Resp: 44118
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.2 11.3 16.9#



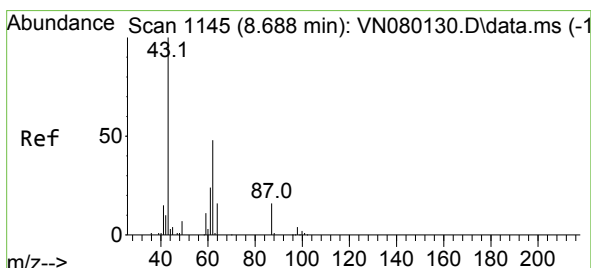
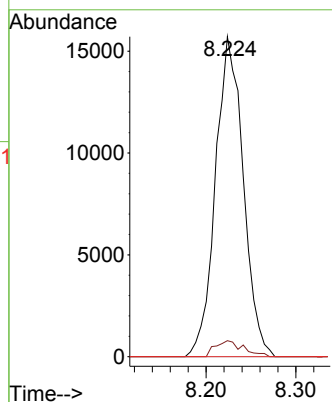
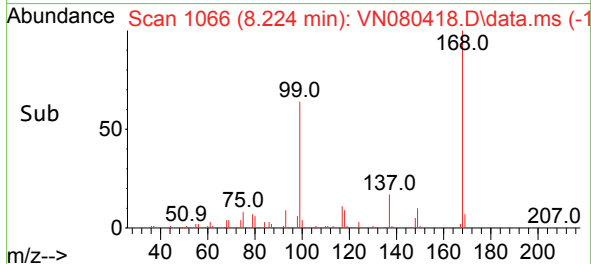


#38
Carbon Tetrachloride
Concen: 4.326 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Instrument :
MSVOA_N
ClientSampleId :

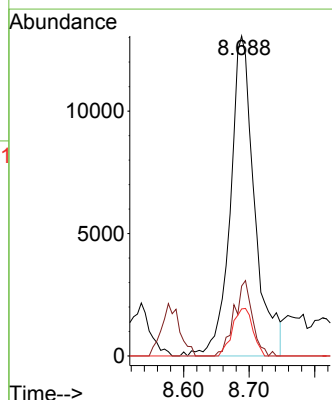
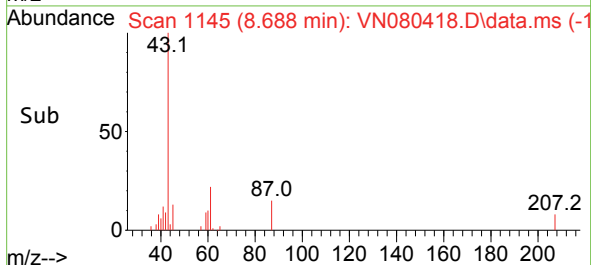
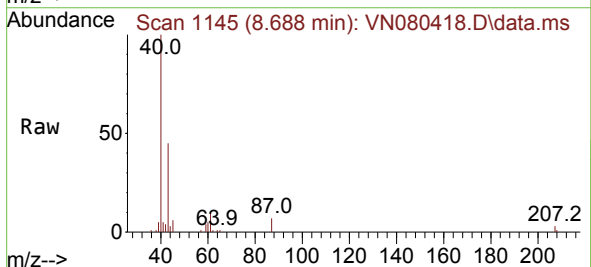


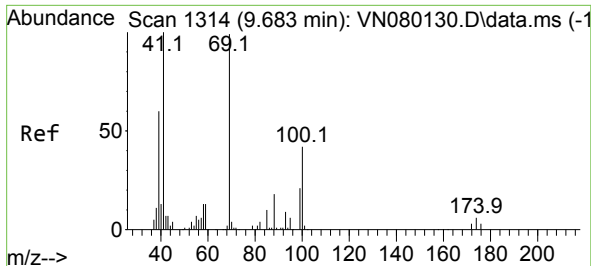
Tgt Ion:117 Resp: 33765
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 4.050 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 43 Resp: 33629
Ion Ratio Lower Upper
43 100
61 17.8 24.7 37.1#
87 12.5 14.6 21.8#

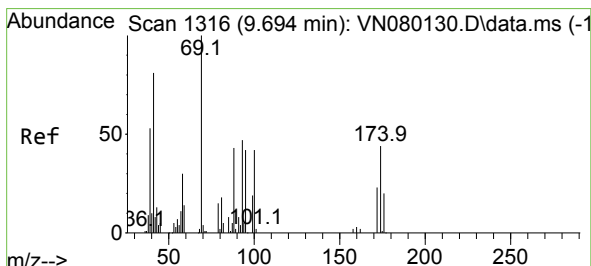
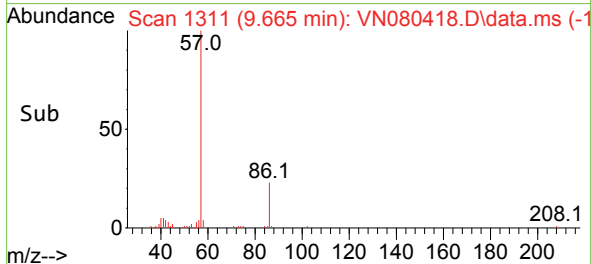
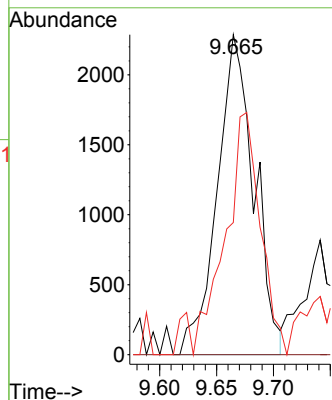
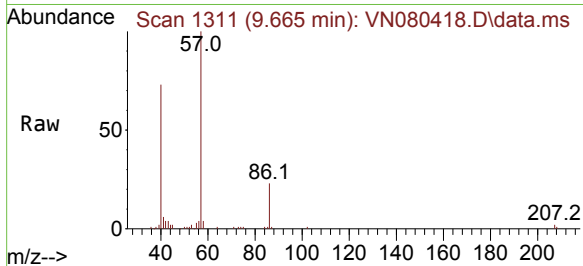




#48
Methyl methacrylate
Concen: 1.209 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

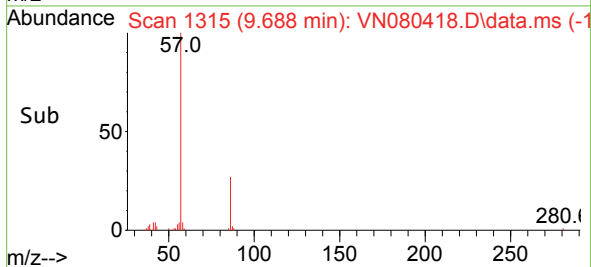
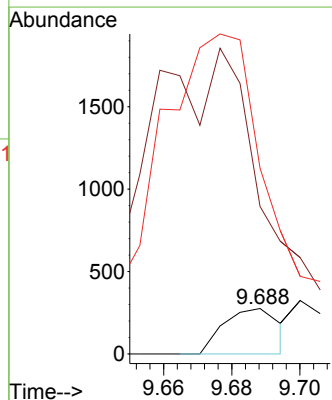
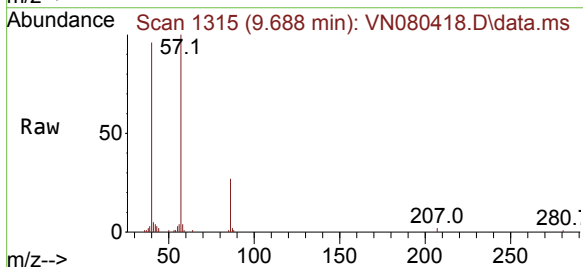
Instrument :
MSVOA_N
ClientSampleId :

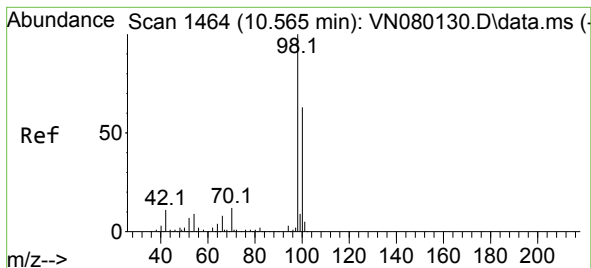
Tgt Ion: 41 Resp: 5172
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 71.4 54.6 81.8



#49
1,4-Dioxane
Concen: 4.383 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Tgt Ion: 88 Resp: 312
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 1578.2 47.0 70.4#





#50

Toluene-d8

Concen: 50.616 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080418.D

Acq: 08 Dec 2023 19:56

Instrument :

MSVOA_N

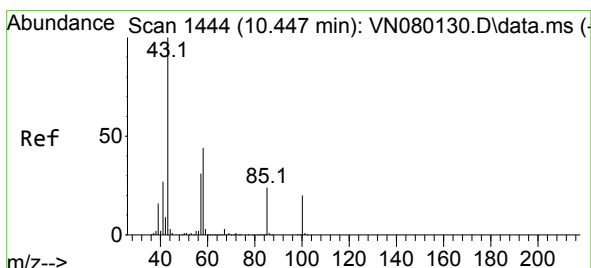
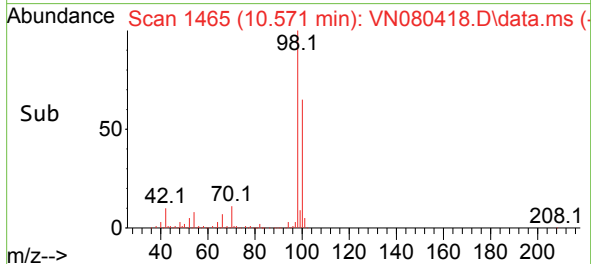
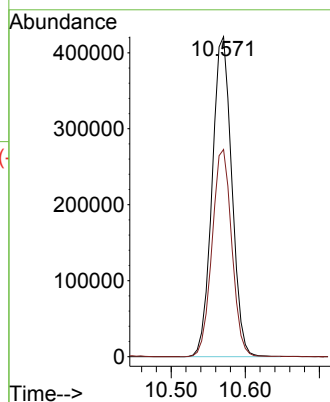
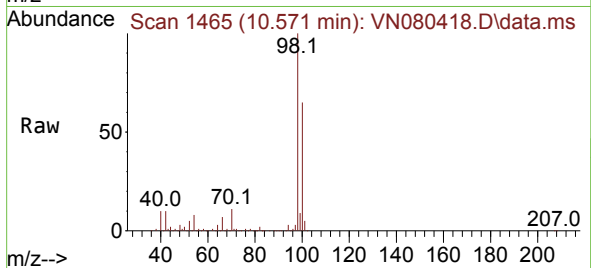
ClientSampleId :

Tgt Ion: 98 Resp: 775188

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.516 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN080418.D

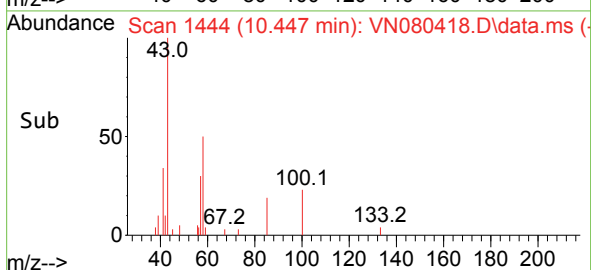
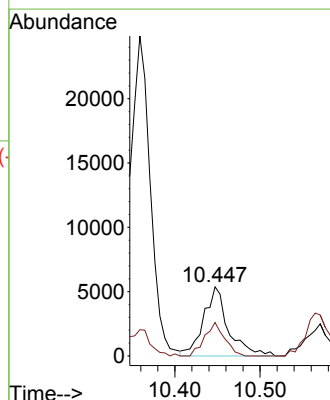
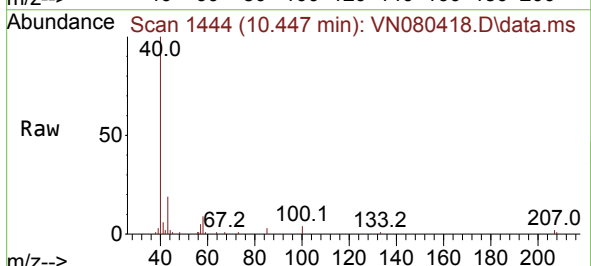
Acq: 08 Dec 2023 19:56

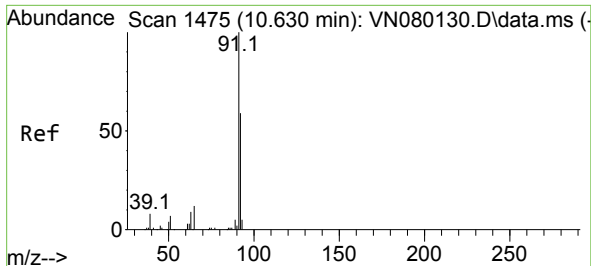
Tgt Ion: 43 Resp: 10815

Ion Ratio Lower Upper

43 100

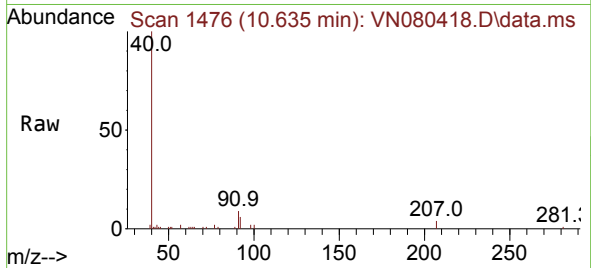
58 39.2 36.6 54.8



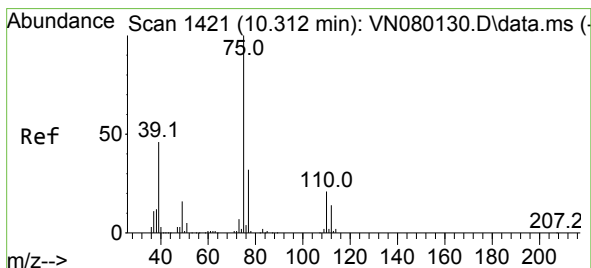
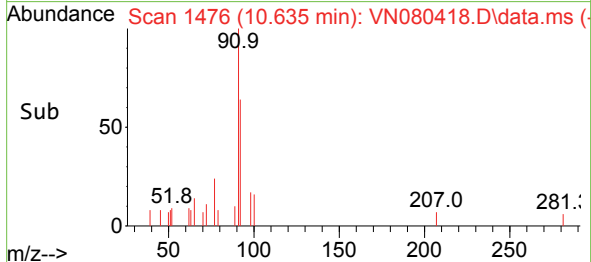
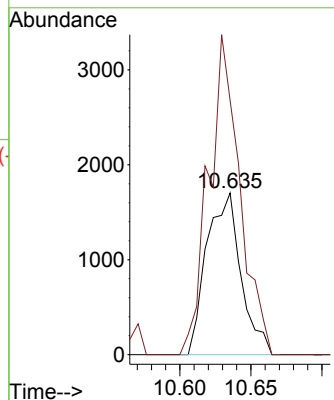


#52
Toluene
Concen: 0.260 ug/l
RT: 10.635 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Instrument :
MSVOA_N
ClientSampleId :

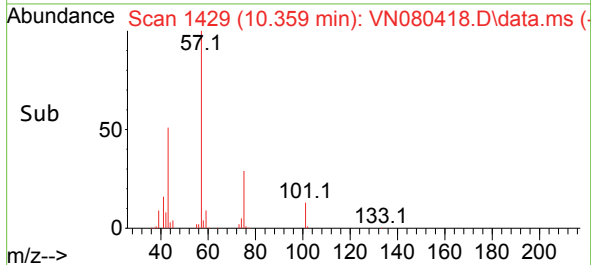
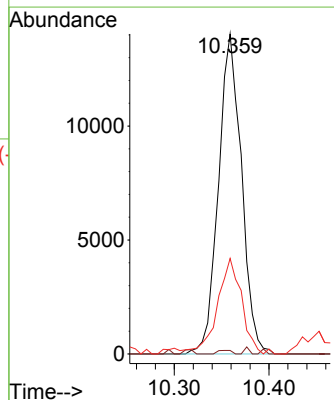
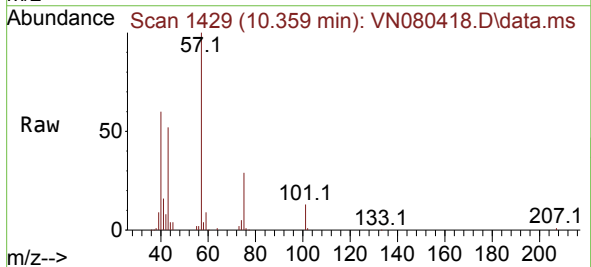


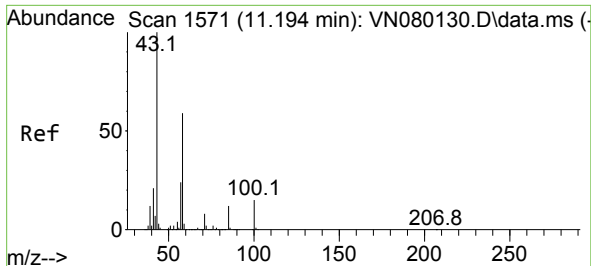
Tgt Ion: 92 Resp: 2849
Ion Ratio Lower Upper
92 100
91 180.3 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 3.341 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

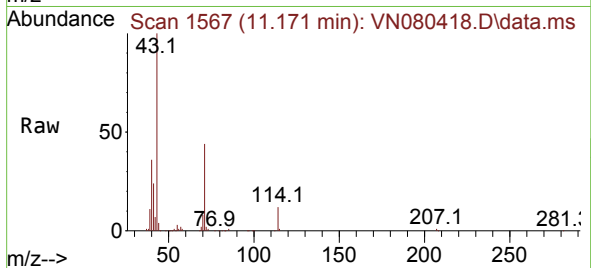
Tgt Ion: 75 Resp: 23725
Ion Ratio Lower Upper
75 100
77 1.1 26.1 39.1#
39 29.9 31.6 47.4#



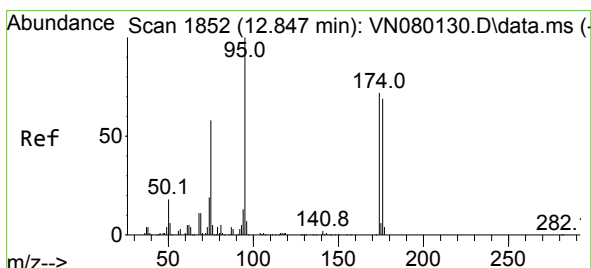
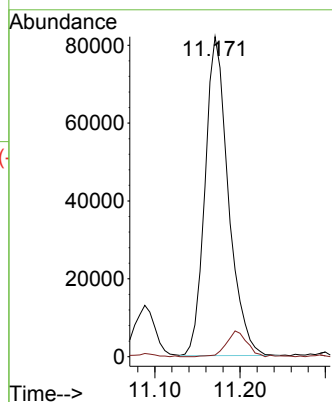
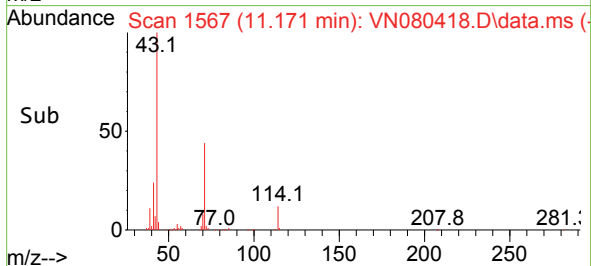


#59
2-Hexanone
Concen: 45.150 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Instrument :
MSVOA_N
ClientSampleId :

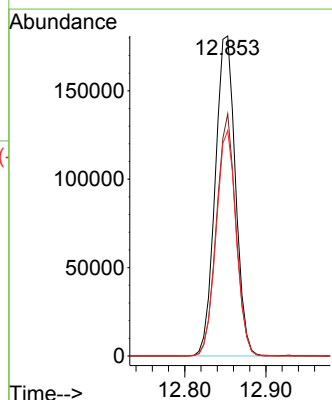
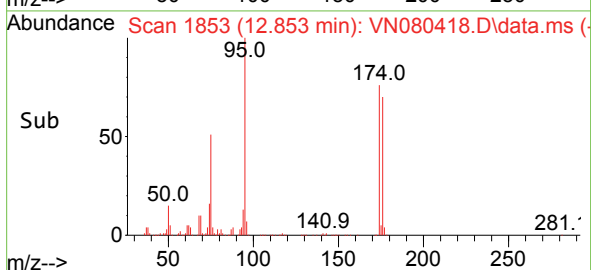
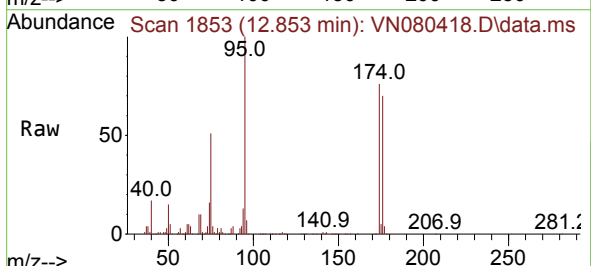


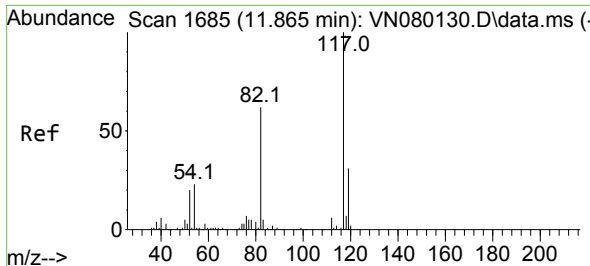
Tgt Ion: 43 Resp: 155950
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 54.273 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

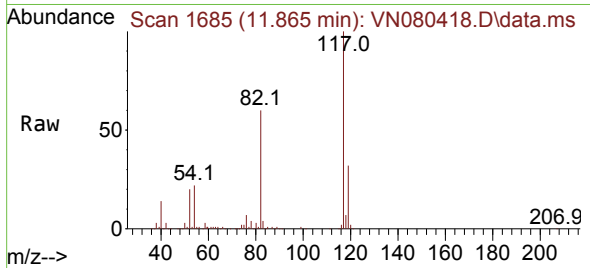
Tgt Ion: 95 Resp: 313957
Ion Ratio Lower Upper
95 100
174 72.2 0.0 143.8
176 69.6 0.0 135.8



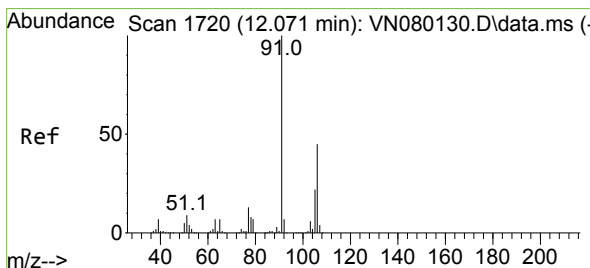
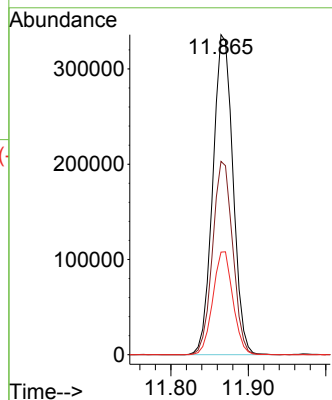
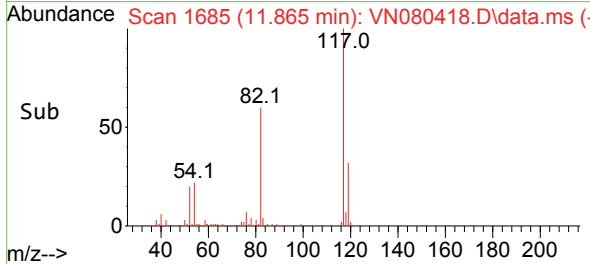


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

Instrument :
MSVOA_N
ClientSampleId :

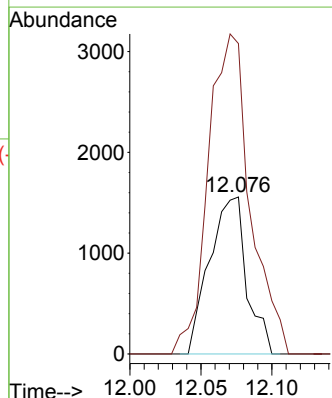
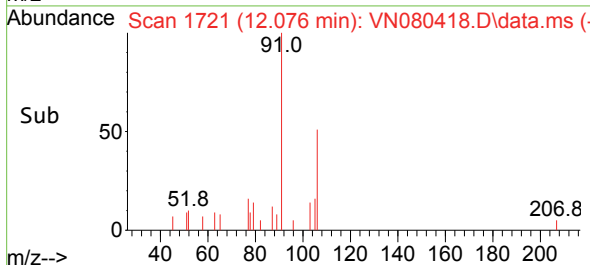
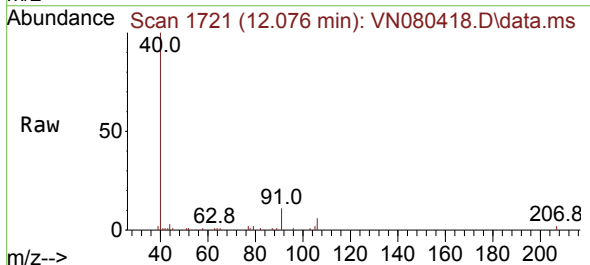


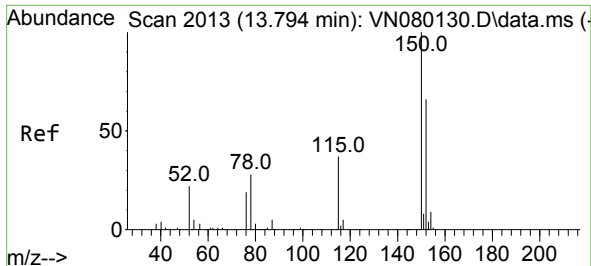
Tgt Ion:117 Resp: 606564
Ion Ratio Lower Upper
117 100
82 60.4 44.0 66.0
119 32.0 25.6 38.4



#68
m/p-Xylenes
Concen: 0.318 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

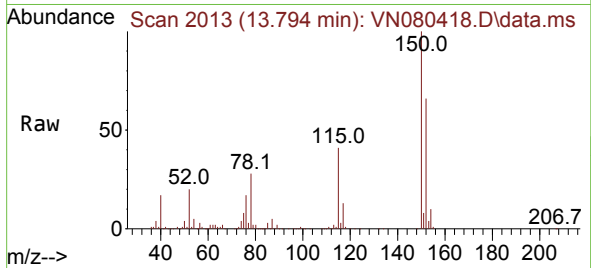
Tgt Ion:106 Resp: 2835
Ion Ratio Lower Upper
106 100
91 230.1 159.6 239.4



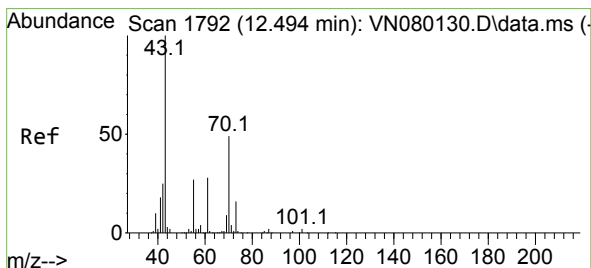
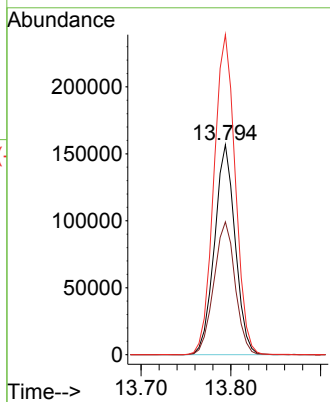
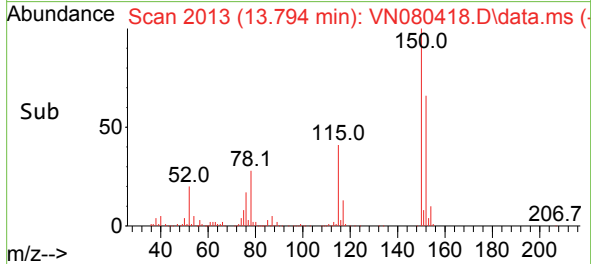


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN080418.D
 Acq: 08 Dec 2023 19:56

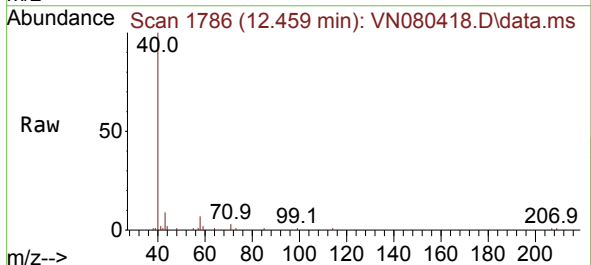
Instrument :
 MSVOA_N
 ClientSampleId :



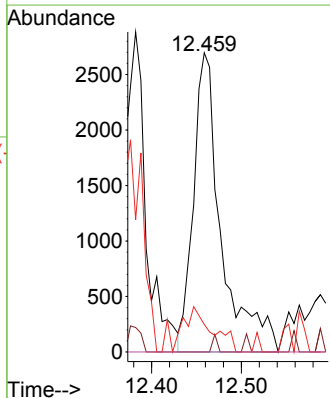
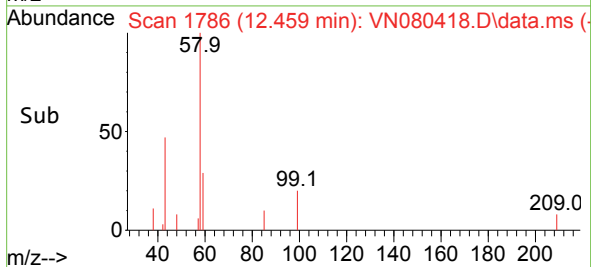
Tgt Ion:152 Resp: 250585
 Ion Ratio Lower Upper
 152 100
 115 65.2 32.3 96.8
 150 158.0 0.0 355.8

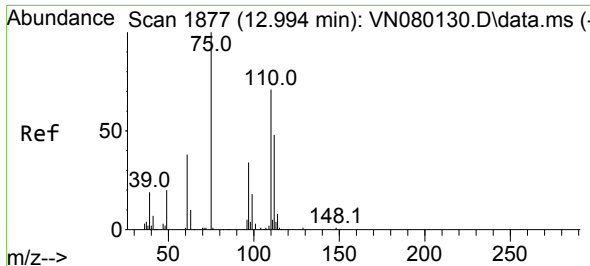


#74
 N-ethyl acetate
 Concen: 0.952 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN080418.D
 Acq: 08 Dec 2023 19:56



Tgt Ion: 43 Resp: 5779
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 12.3 21.4 32.0#
 61 0.0 22.8 34.2#

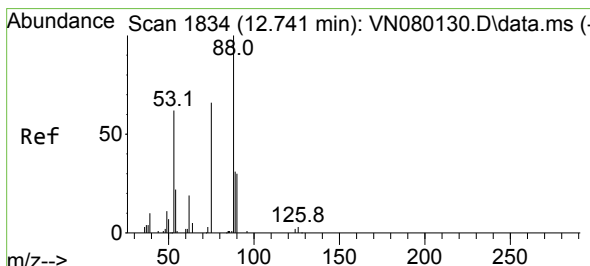
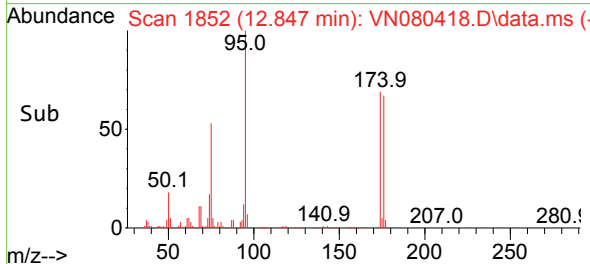
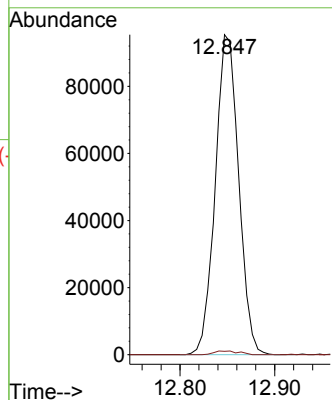
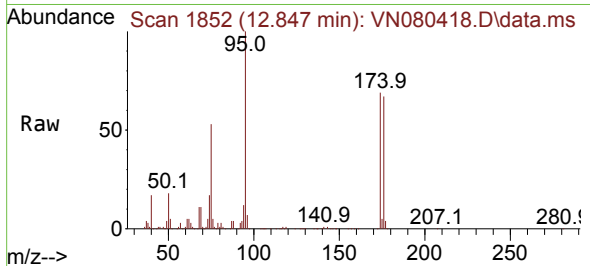




#76
1,2,3-Trichloropropane
Concen: 26.656 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

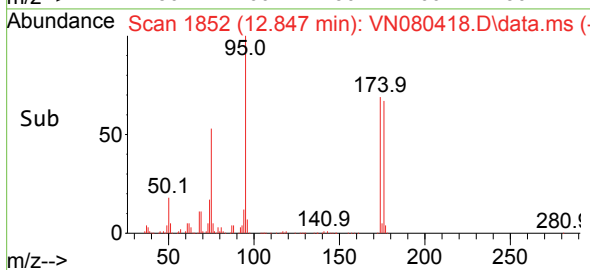
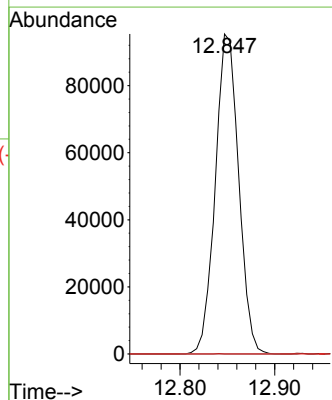
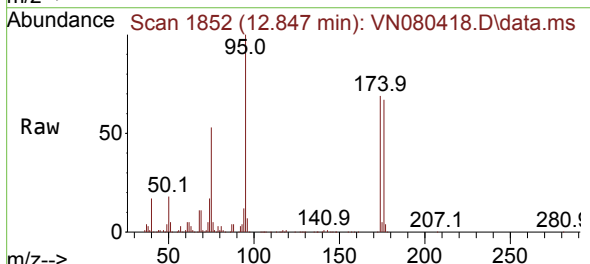
Instrument :
MSVOA_N
ClientSampleId :

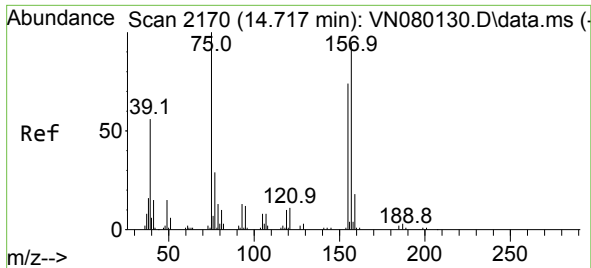
Tgt Ion: 75 Resp: 163663
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.060 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080418.D
Acq: 08 Dec 2023 19:56

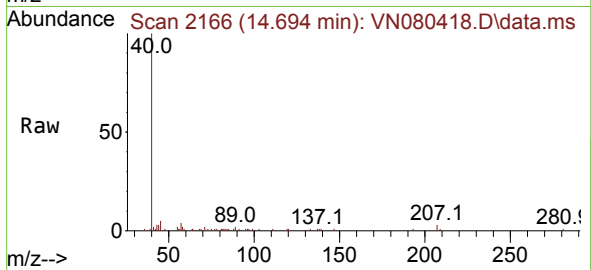
Tgt Ion: 75 Resp: 163663
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.686 ug/l
 RT: 14.694 min Scan# 2170
 Delta R.T. -0.024 min
 Lab File: VN080418.D
 Acq: 08 Dec 2023 19:56

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	75	Resp:	929
Ion	Ratio	Lower	Upper
75	100		
155	0.0	39.1	117.2#
157	0.0	50.3	150.9#

