

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112023\
 Data File : VN080204.D
 Acq On : 20 Nov 2023 13:49
 Operator : JC\MD
 Sample : 05484-02 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 01:04:12 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)

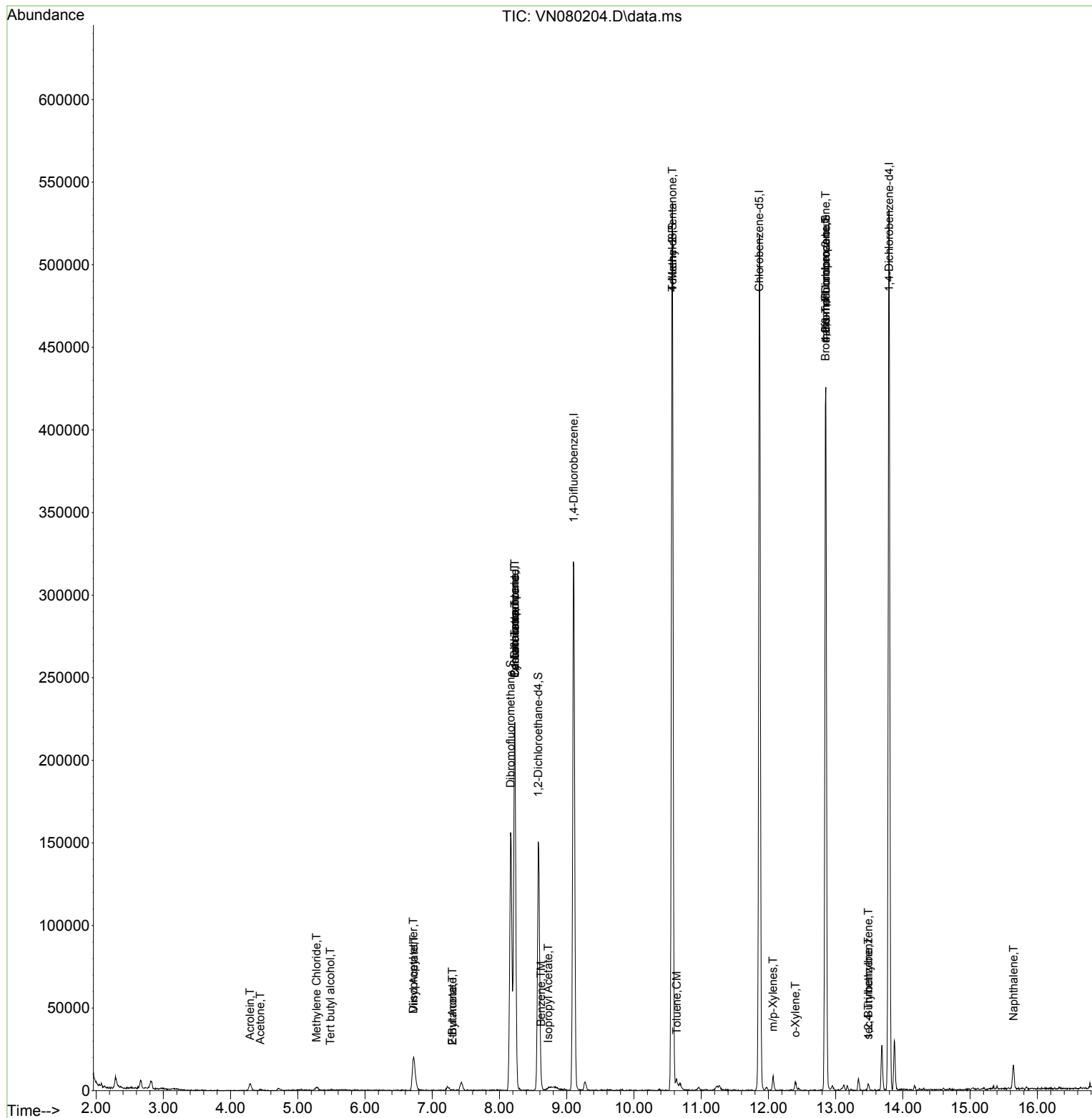
Internal Standards						
1) Pentafluorobenzene	8.230	168	151603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	270934	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294076	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	141475	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	137574	54.959	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.920%			
35) Dibromofluoromethane	8.165	113	105151	52.598	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.200%			
50) Toluene-d8	10.571	98	363070	50.381	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.760%			
62) 4-Bromofluorobenzene	12.853	95	147811	54.302	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.600%			
Target Compounds						Qvalue
6) Chloroethane	3.124	64	192	Below Cal	#	43
11) Tert butyl alcohol	5.483	59	117	0.425	ug/l #	72
13) Acrolein	4.289	56	53	0.218	ug/l #	35
16) Acetone	4.442	43	1334	1.587	ug/l #	73
20) Methylene Chloride	5.277	84	1844	1.047	ug/l #	92
22) Diisopropyl ether	6.718	45	1323	0.297	ug/l #	1
23) Vinyl Acetate	6.724	43	3530	1.316	ug/l #	62
25) 2-Butanone	7.300	43	599	0.600	ug/l #	37
31) Cyclohexane	8.230	56	3672	1.349	ug/l #	39
36) 1,1-Dichloropropene	8.224	75	12459	4.305	ug/l #	51
37) Ethyl Acetate	7.300	43	599	0.298	ug/l #	63
38) Carbon Tetrachloride	8.230	117	17755	4.834	ug/l #	15
40) Benzene	8.618	78	3563	0.433	ug/l	100
43) Isopropyl Acetate	8.724	43	1141	0.292	ug/l #	49
51) 4-Methyl-2-Pentanone	10.571	43	1561	0.772	ug/l #	1
52) Toluene	10.635	92	2879	0.559	ug/l	88
68) m/p-Xylenes	12.071	106	2598	0.601	ug/l	84
69) o-Xylene	12.400	106	1212	0.297	ug/l	64
71) Bromoform	12.847	173	951	0.496	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	85860	24.769	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	85860	83.685	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	2562	0.272	ug/l	95
85) sec-Butylbenzene	13.488	105	2562	0.264	ug/l #	57
95) Naphthalene	15.647	128	14288	1.773	ug/l	98

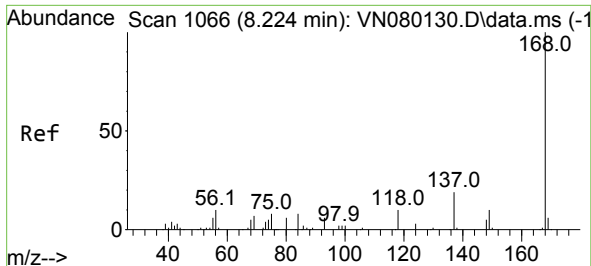
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :

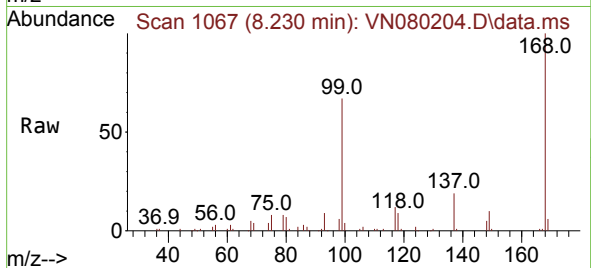
Quant Time: Nov 21 01:04:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
Response via : Initial Calibration



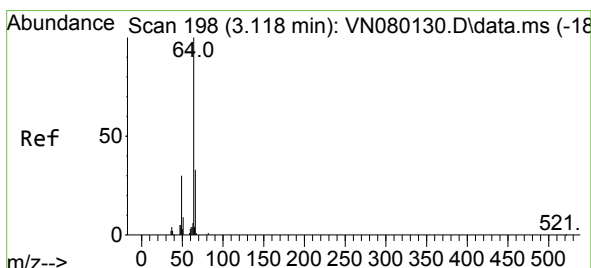
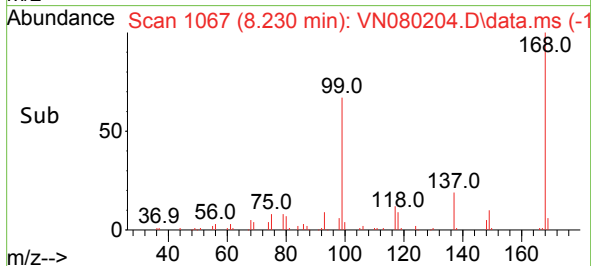
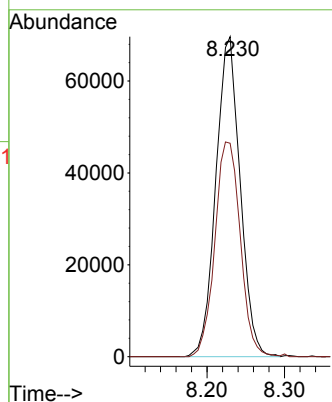


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

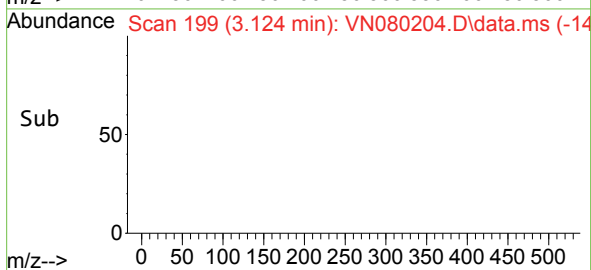
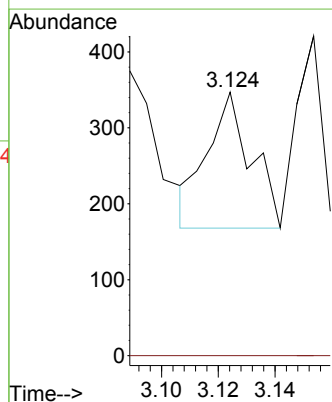
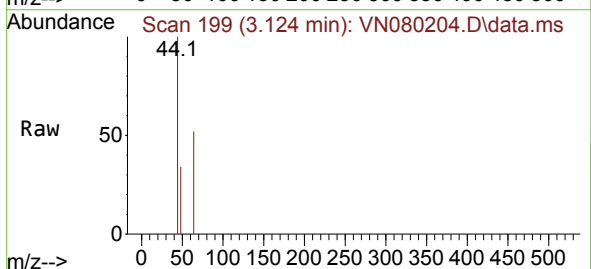


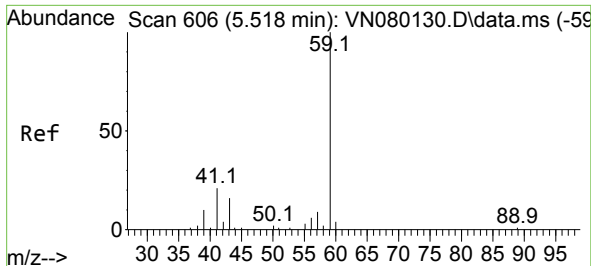
Tgt Ion:168 Resp: 151603
Ion Ratio Lower Upper
168 100
99 66.7 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

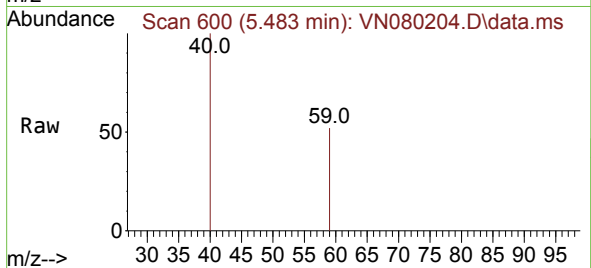
Tgt Ion: 64 Resp: 192
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



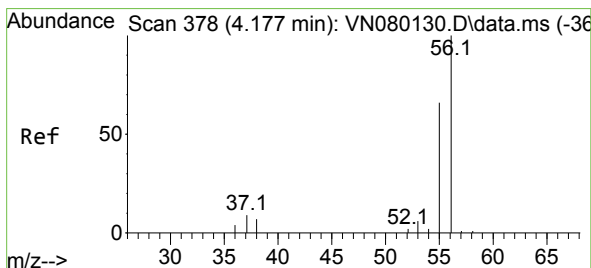
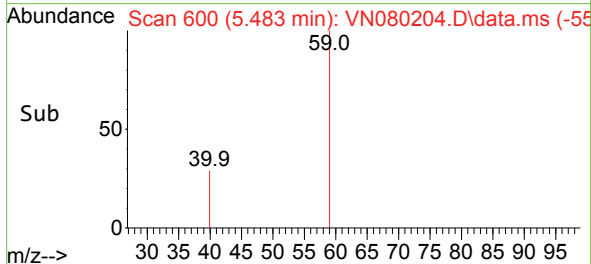
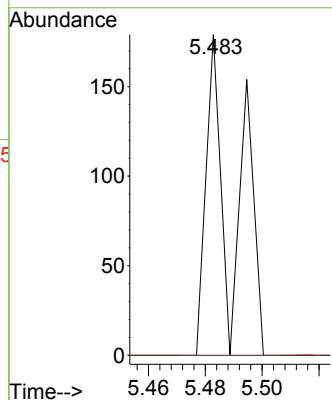


#11
Tert butyl alcohol
Concen: 0.425 ug/l
RT: 5.483 min Scan# 606
Delta R.T. -0.035 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

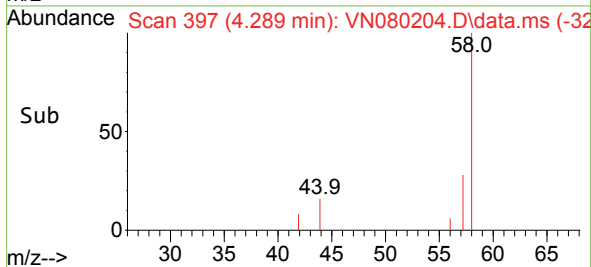
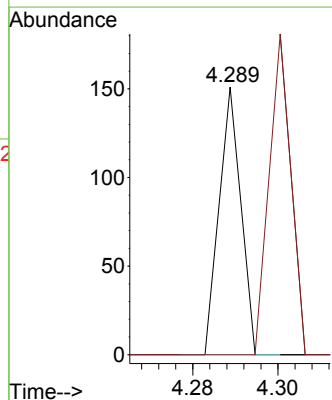
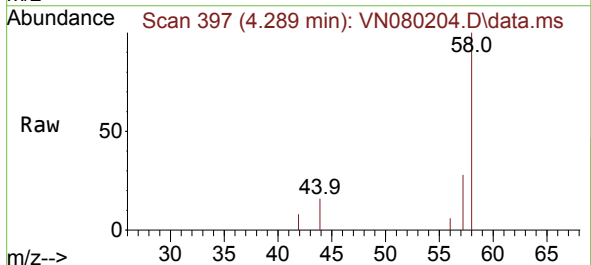


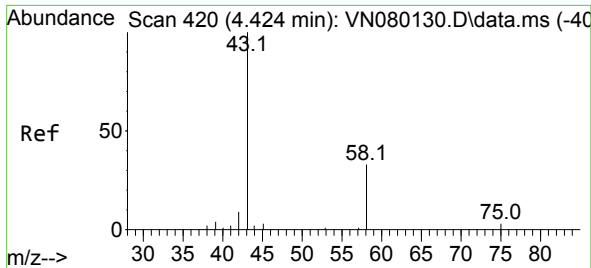
Tgt Ion: 59 Resp: 117
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.218 ug/l
RT: 4.289 min Scan# 397
Delta R.T. 0.112 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 120.8 54.5 81.7#





#16

Acetone

Concen: 1.587 ug/l

RT: 4.442 min Scan# 43

Delta R.T. 0.018 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Instrument :

MSVOA_N

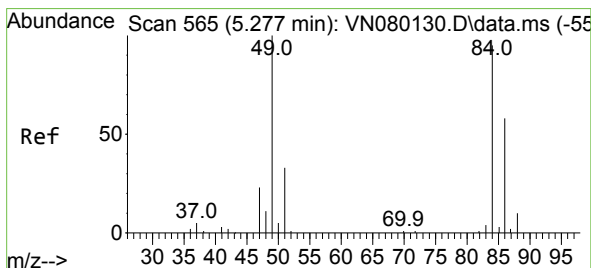
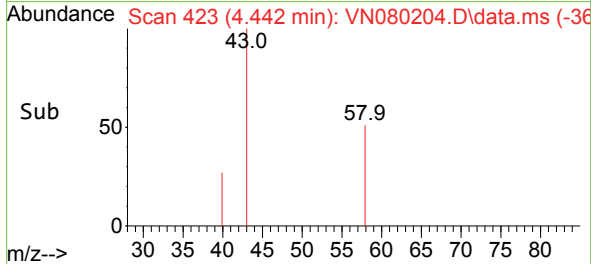
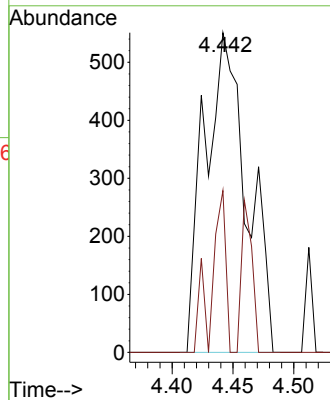
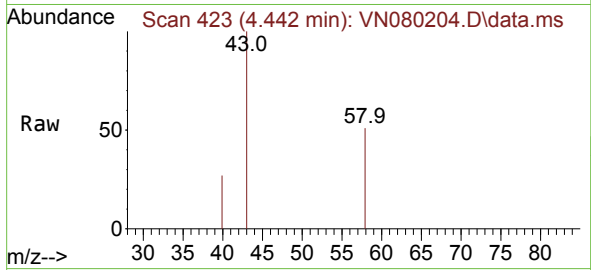
ClientSampleId :

Tgt Ion: 43 Resp: 1334

Ion Ratio Lower Upper

43 100

58 50.6 28.0 42.0#



#20

Methylene Chloride

Concen: 1.047 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Tgt Ion: 84 Resp: 1844

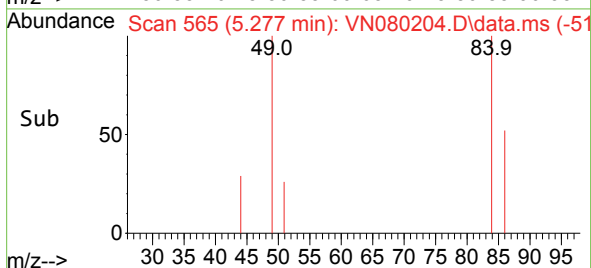
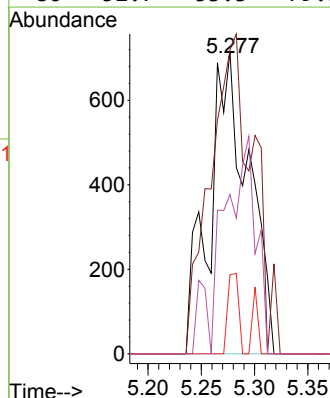
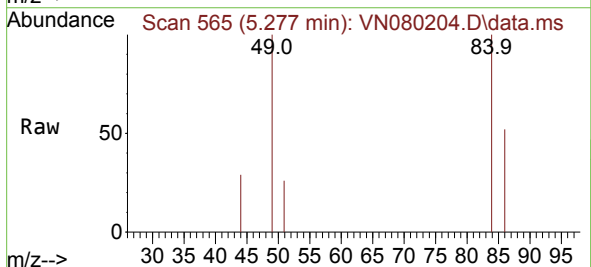
Ion Ratio Lower Upper

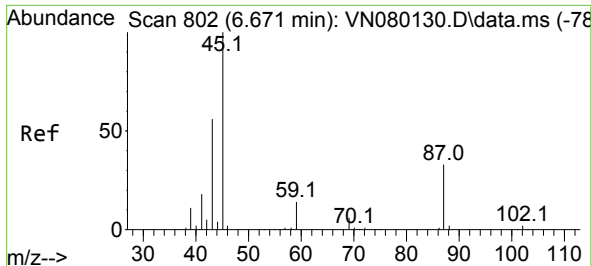
84 100

49 100.4 79.7 119.5

51 26.1 25.2 37.8

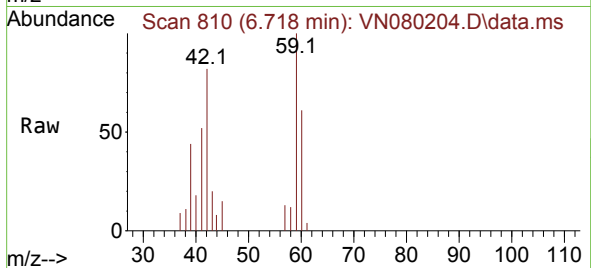
86 52.7 53.3 79.9#



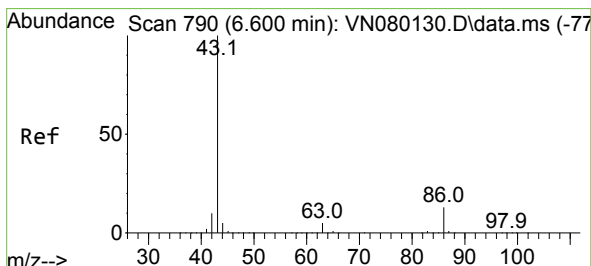
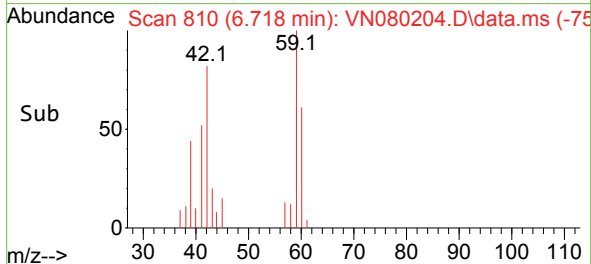
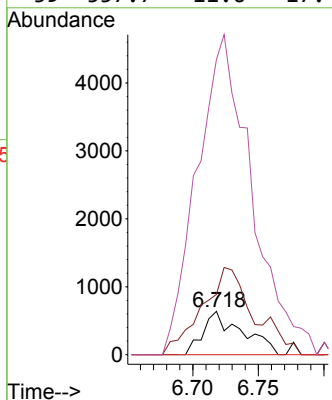


#22
Diisopropyl ether
Concen: 0.297 ug/l
RT: 6.718 min Scan# 810
Delta R.T. 0.047 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

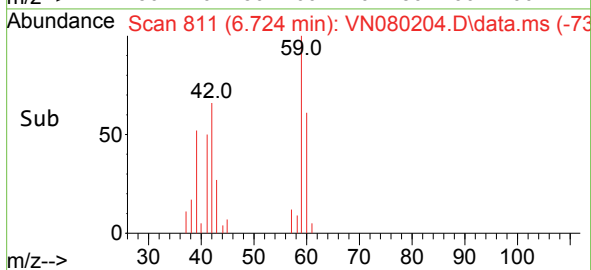
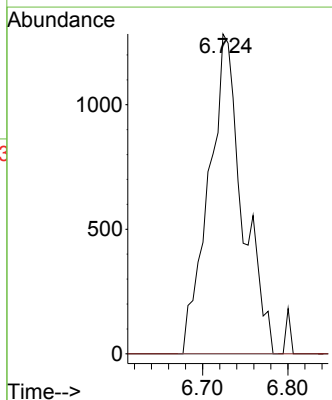
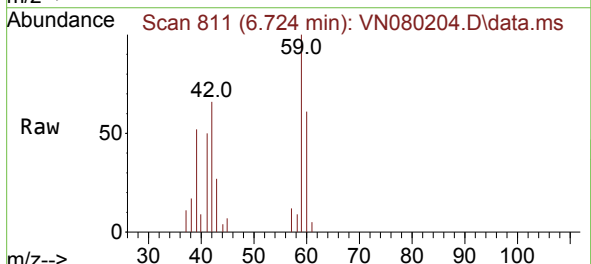


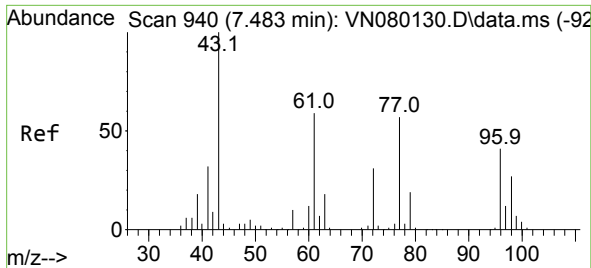
Tgt Ion:	45	Resp:	1323
Ion	Ratio	Lower	Upper
45	100		
43	105.6	45.5	68.3#
87	0.0	31.8	47.8#
59	557.7	11.6	17.4#



#23
Vinyl Acetate
Concen: 1.316 ug/l
RT: 6.724 min Scan# 811
Delta R.T. 0.123 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion:	43	Resp:	3530
Ion	Ratio	Lower	Upper
43	100		
86	0.0	13.0	19.6#

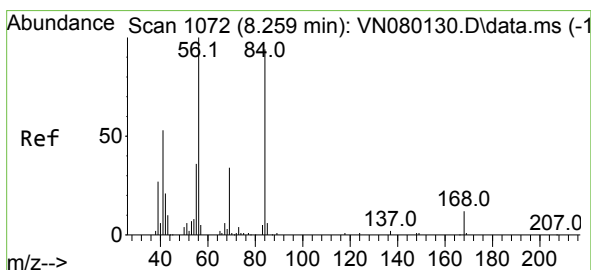
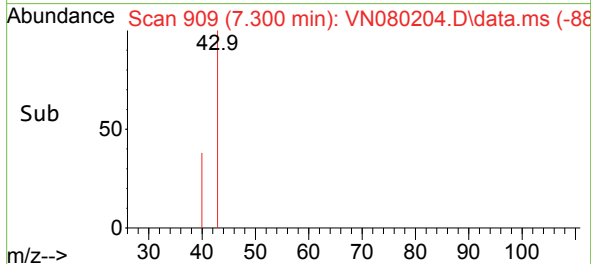
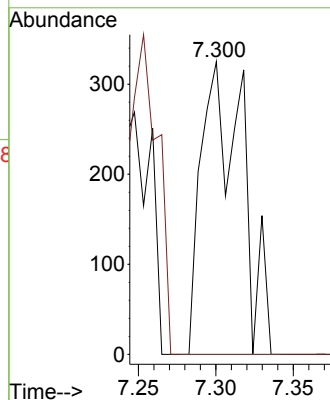
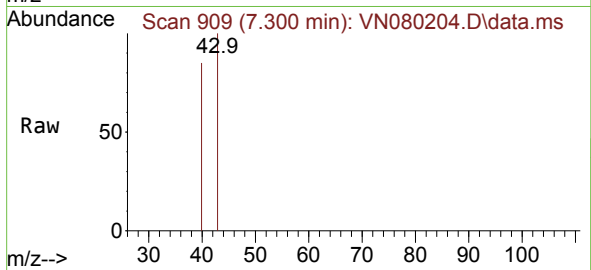




#25
2-Butanone
Concen: 0.600 ug/l
RT: 7.300 min Scan# 90
Delta R.T. -0.182 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

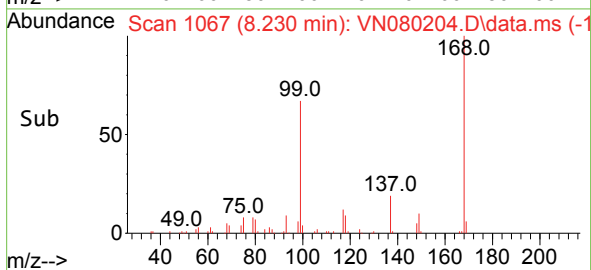
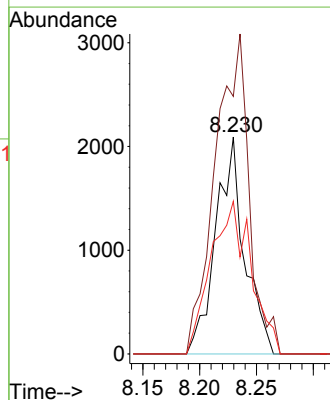
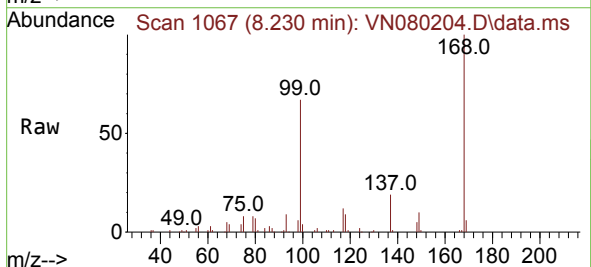
Instrument :
MSVOA_N
ClientSampleId :

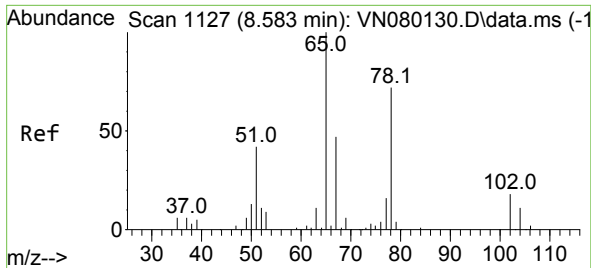
Tgt Ion: 43 Resp: 599
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.349 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 56 Resp: 3672
Ion Ratio Lower Upper
56 100
69 118.7 26.8 40.2#
84 70.3 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 54.959 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Instrument :

MSVOA_N

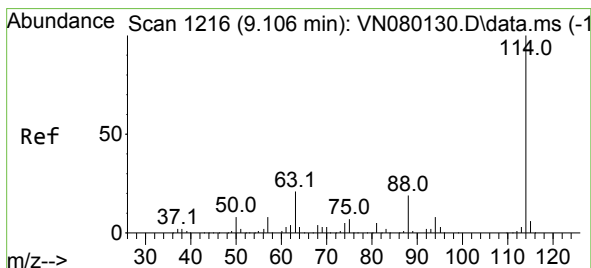
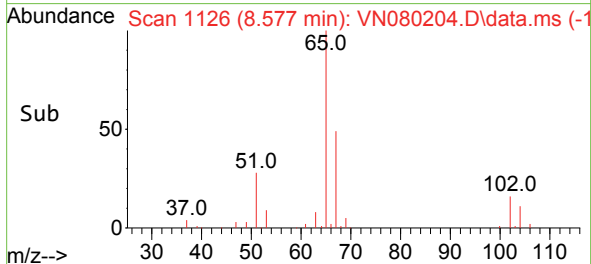
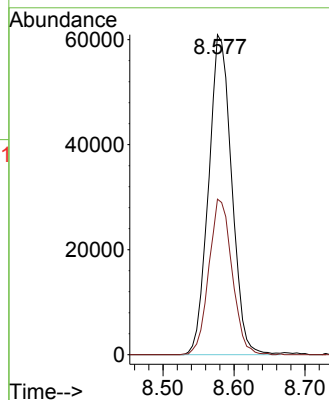
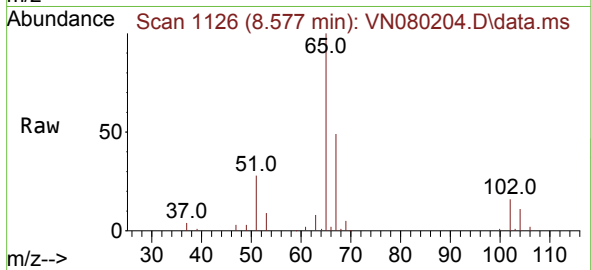
ClientSampleId :

Tgt Ion: 65 Resp: 137574

Ion Ratio Lower Upper

65 100

67 48.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

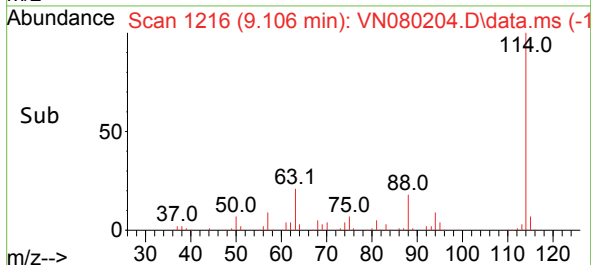
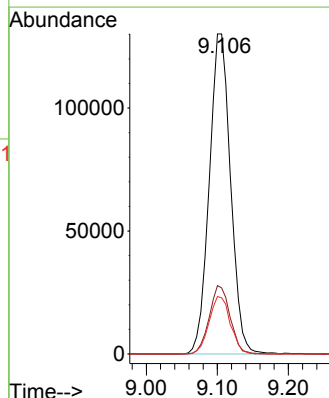
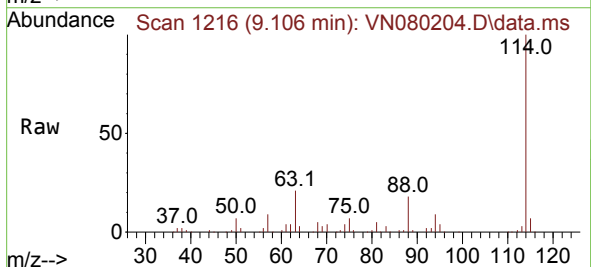
Tgt Ion:114 Resp: 270934

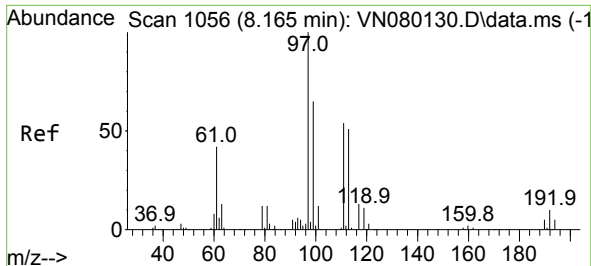
Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.4

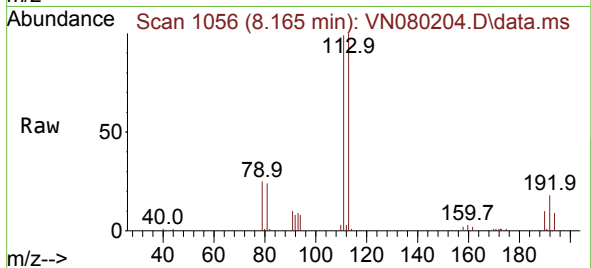
88 17.6 0.0 30.6



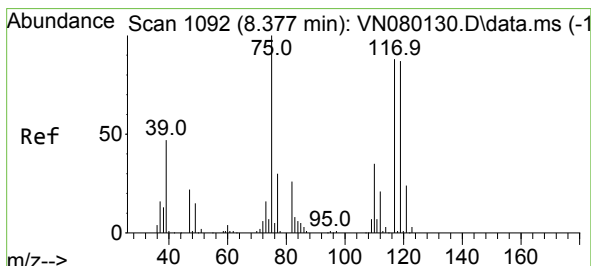
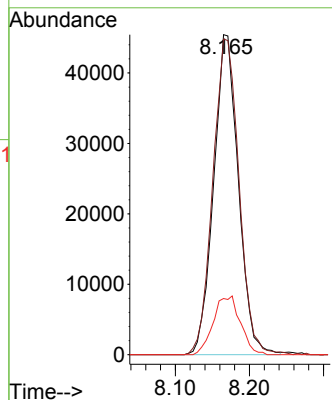
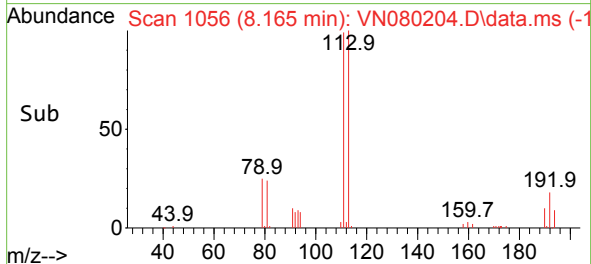


#35
Dibromofluoromethane
Concen: 52.598 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

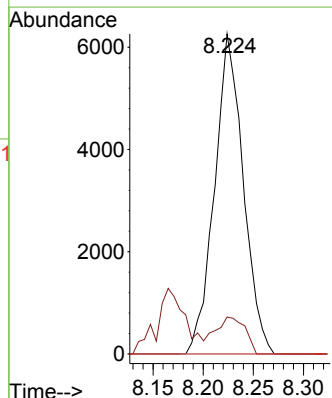
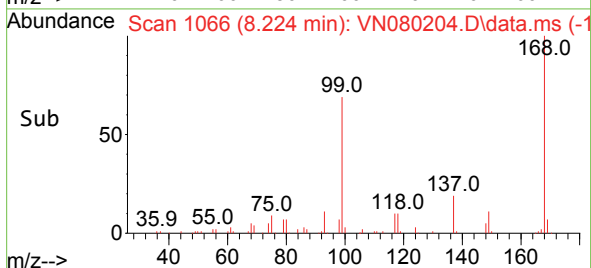
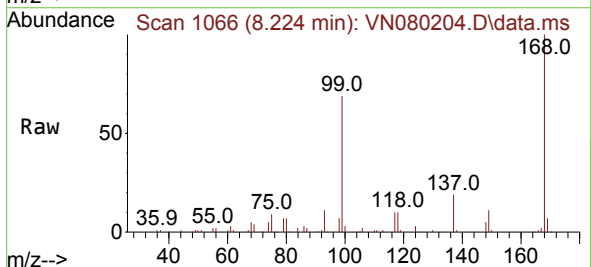


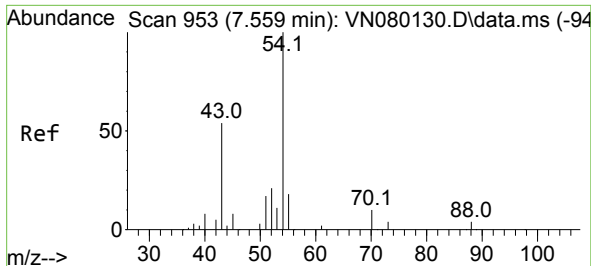
Tgt Ion:113 Resp: 105151
Ion Ratio Lower Upper
113 100
111 104.4 82.6 123.8
192 20.0 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.305 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 75 Resp: 12459
Ion Ratio Lower Upper
75 100
110 12.0 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.298 ug/l

RT: 7.300 min Scan# 90

Delta R.T. -0.259 min

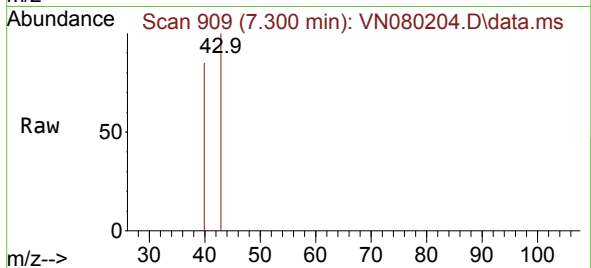
Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

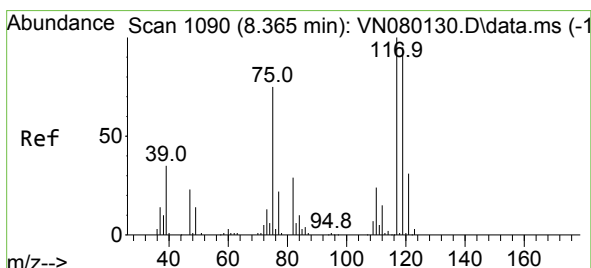
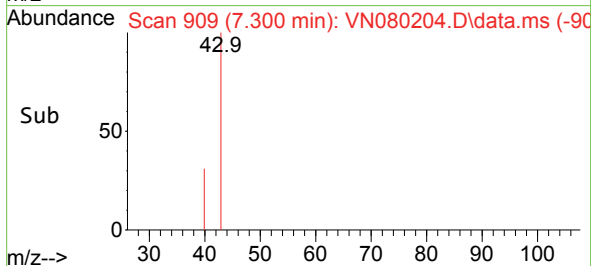
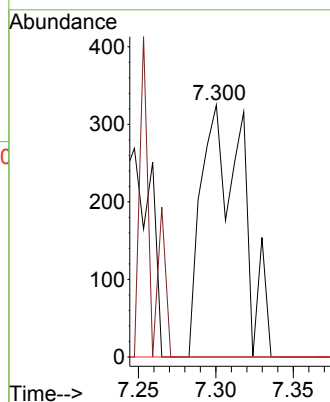
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp: 599
Ion Ratio	Lower Upper
43	100
61	0.0 13.2 19.8#
70	0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 4.834 ug/l

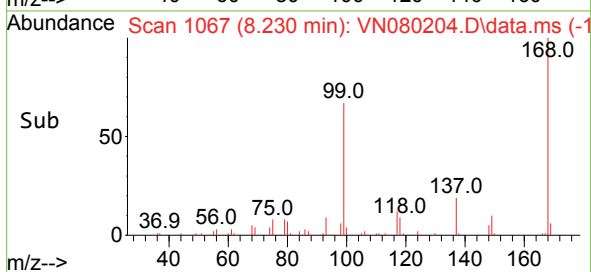
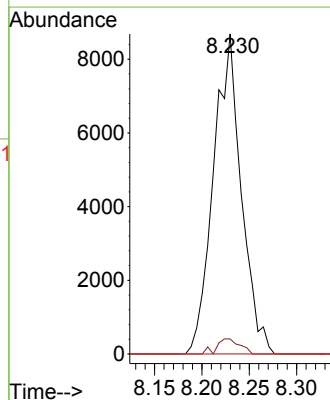
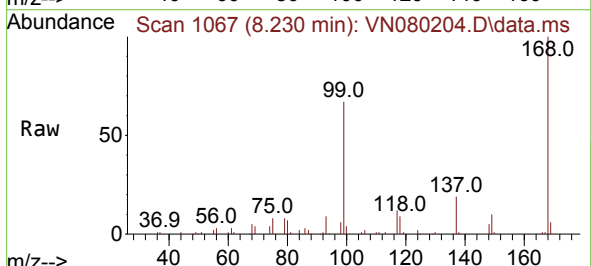
RT: 8.230 min Scan# 1067

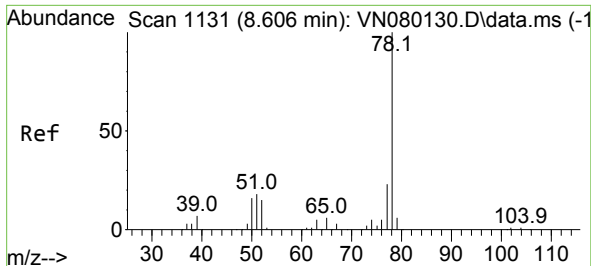
Delta R.T. -0.135 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Tgt Ion: 117	Resp: 17755
Ion Ratio	Lower Upper
117	100
119	4.7 77.3 115.9#
121	0.0 23.3 34.9#

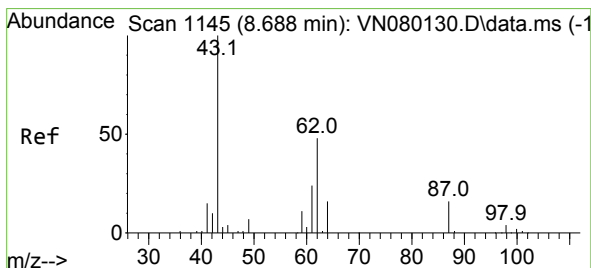
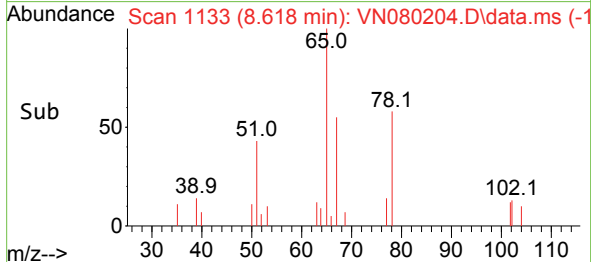
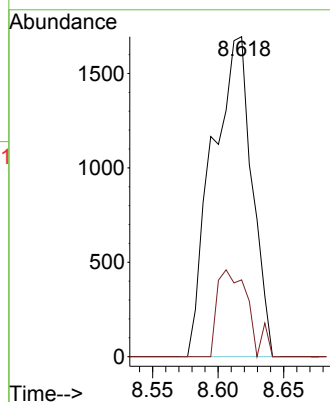
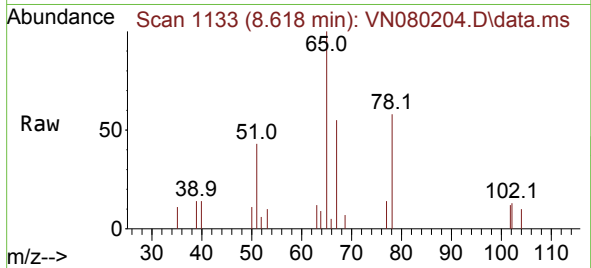




#40
Benzene
Concen: 0.433 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.012 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

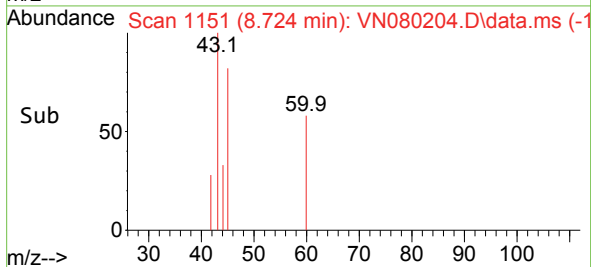
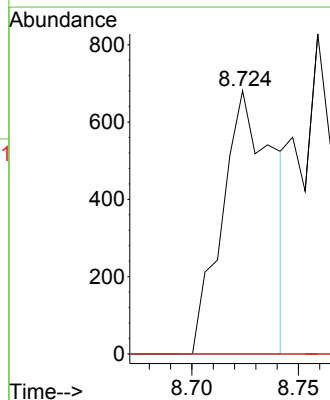
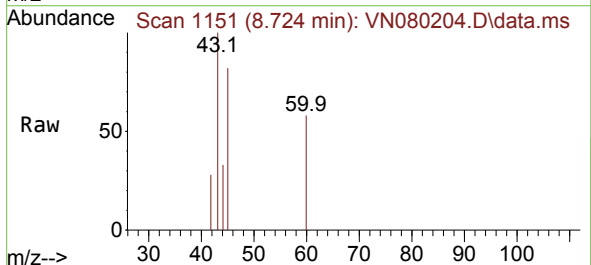
Instrument :
MSVOA_N
ClientSampleId :

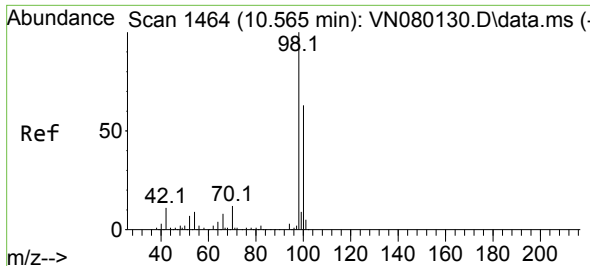
Tgt Ion: 78 Resp: 3563
Ion Ratio Lower Upper
78 100
77 24.0 19.0 28.6



#43
Isopropyl Acetate
Concen: 0.292 ug/l
RT: 8.724 min Scan# 1151
Delta R.T. 0.035 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

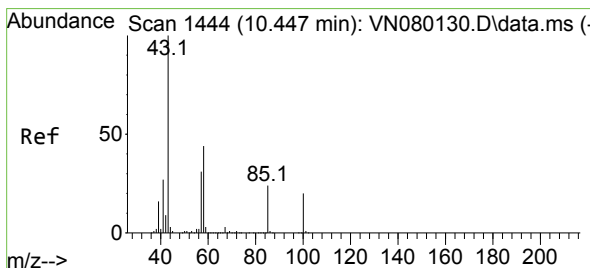
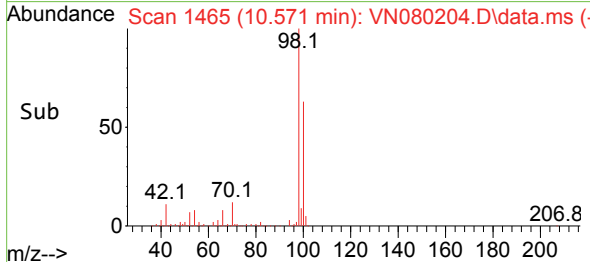
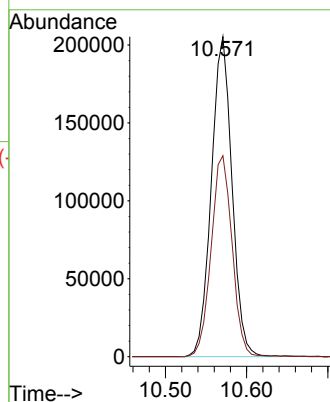
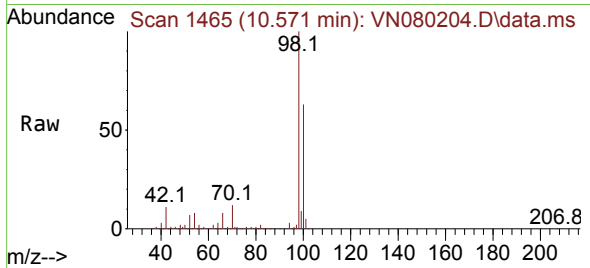




#50
Toluene-d8
Concen: 50.381 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

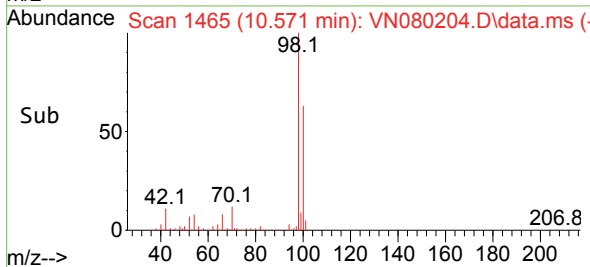
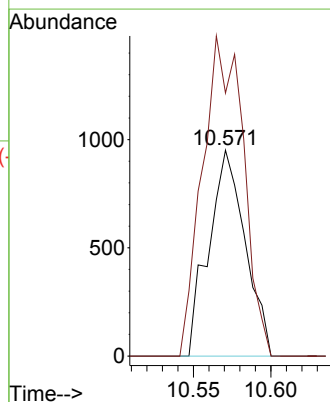
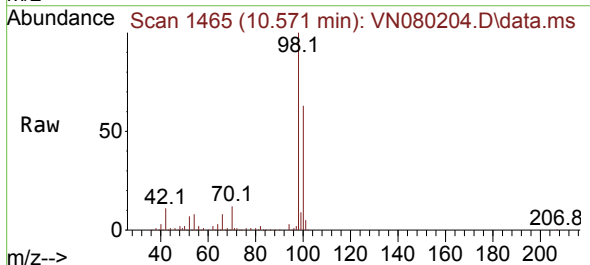
Instrument :
MSVOA_N
ClientSampleId :

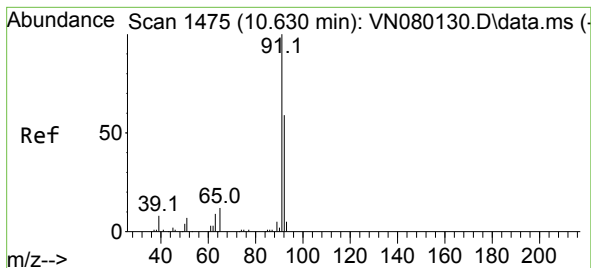
Tgt Ion: 98 Resp: 363070
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.772 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.124 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 43 Resp: 1561
Ion Ratio Lower Upper
43 100
58 173.4 36.6 54.8#





#52

Toluene

Concen: 0.559 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Instrument :

MSVOA_N

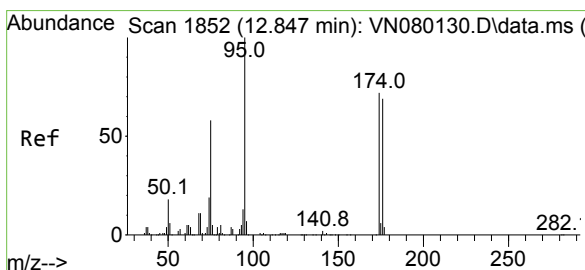
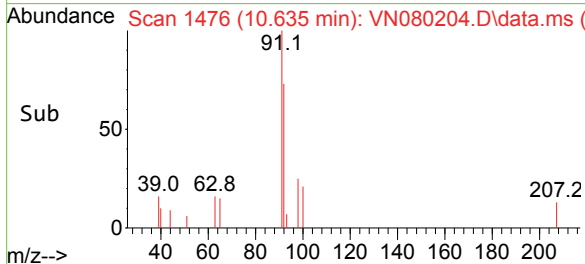
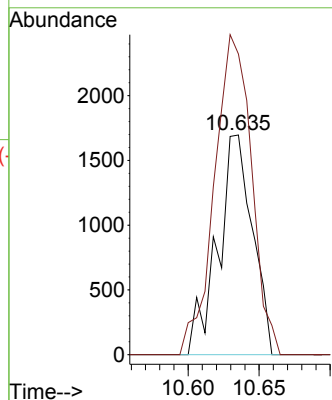
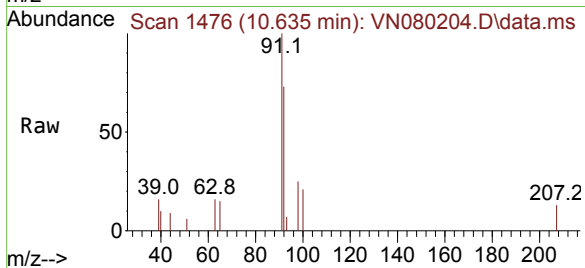
ClientSampleId :

Tgt Ion: 92 Resp: 2879

Ion Ratio Lower Upper

92 100

91 155.5 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 54.302 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

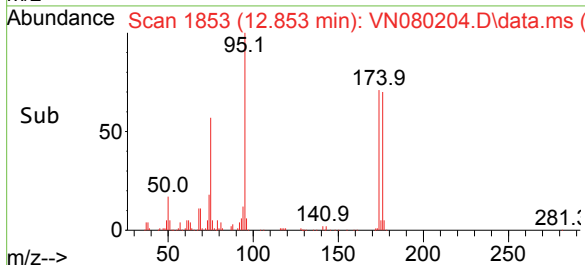
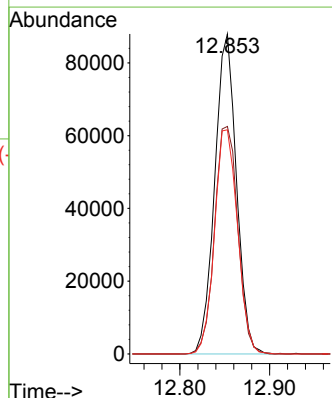
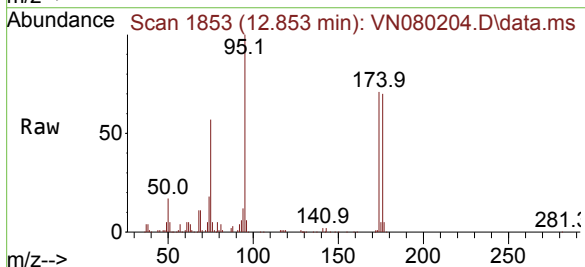
Tgt Ion: 95 Resp: 147811

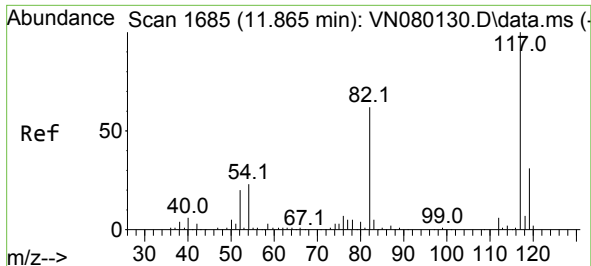
Ion Ratio Lower Upper

95 100

174 76.0 0.0 143.8

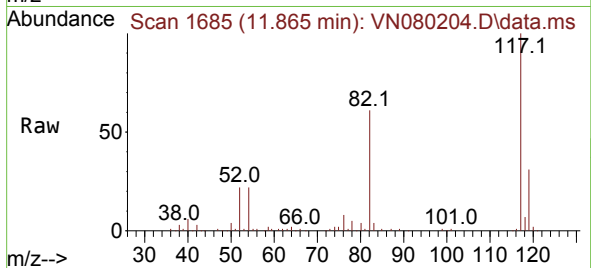
176 74.2 0.0 135.8



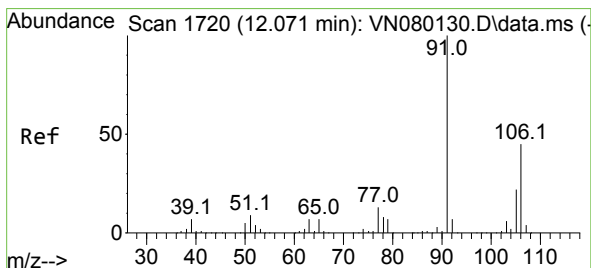
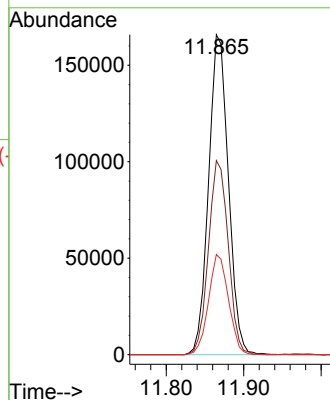
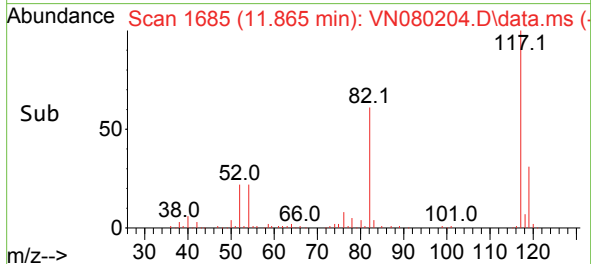


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

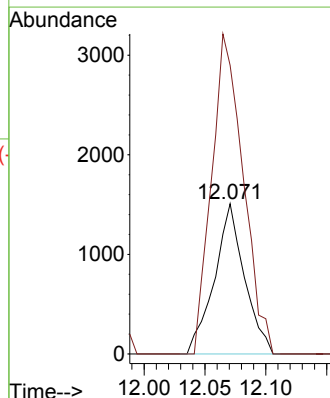
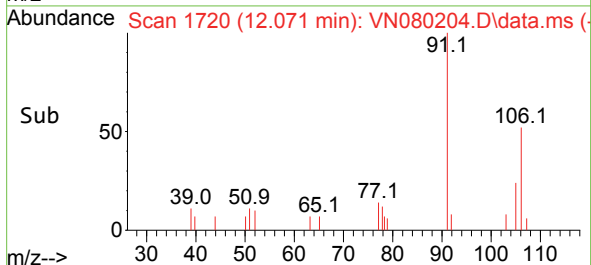
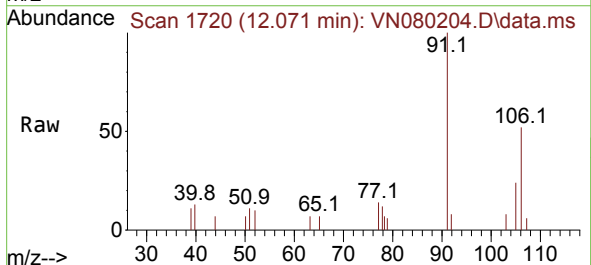


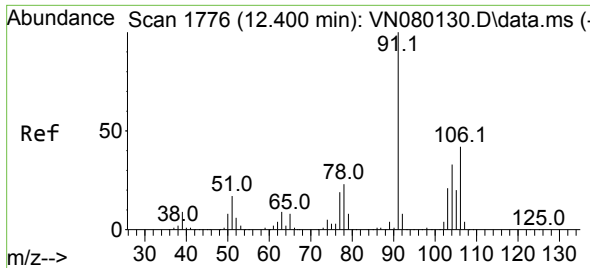
Tgt Ion:117 Resp: 294076
Ion Ratio Lower Upper
117 100
82 60.6 44.0 66.0
119 31.3 25.6 38.4



#68
m/p-Xylenes
Concen: 0.601 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion:106 Resp: 2598
Ion Ratio Lower Upper
106 100
91 223.2 159.6 239.4

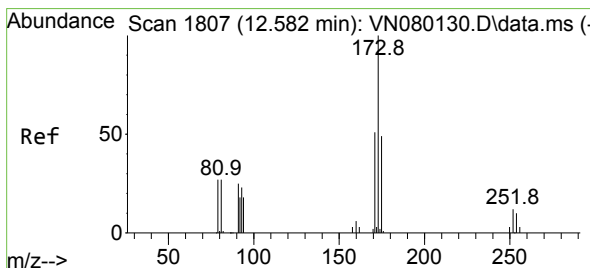
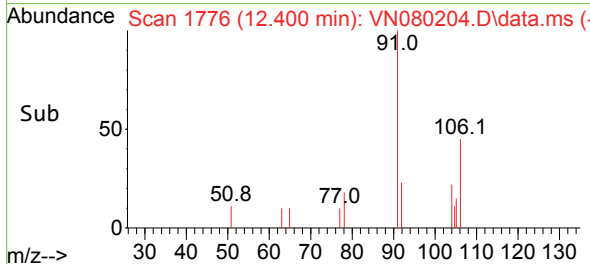
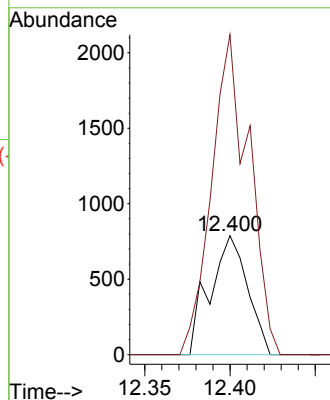
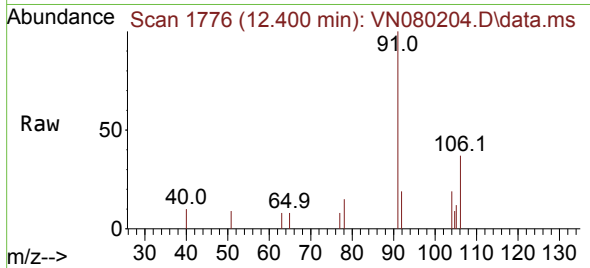




#69
o-Xylene
Concen: 0.297 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

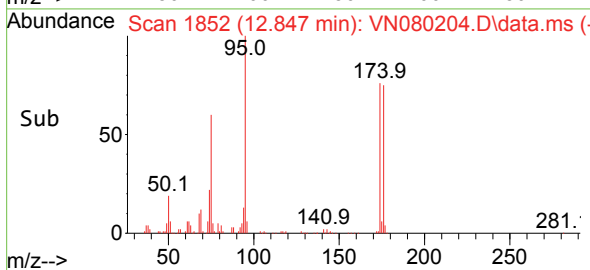
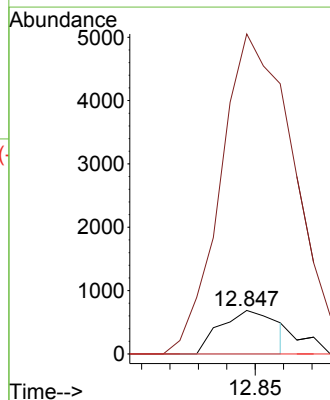
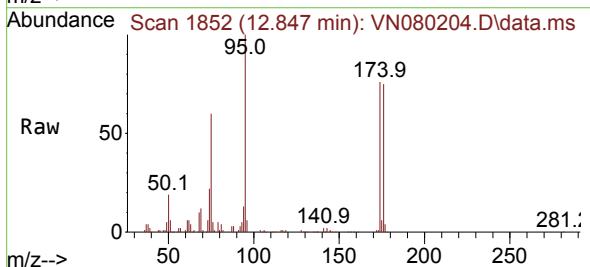
Instrument :
MSVOA_N
ClientSampleId :

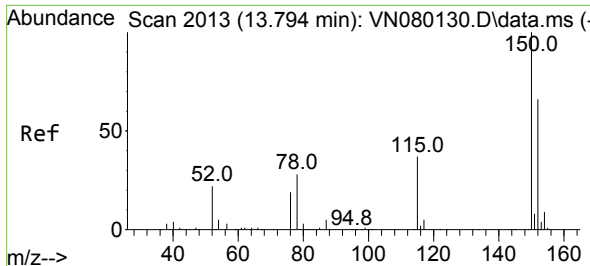
Tgt Ion:106 Resp: 1212
Ion Ratio Lower Upper
106 100
91 267.2 105.2 315.5



#71
Bromoform
Concen: 0.496 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion:173 Resp: 951
Ion Ratio Lower Upper
173 100
175 771.2 24.3 73.0#
254 0.0 0.0 0.0

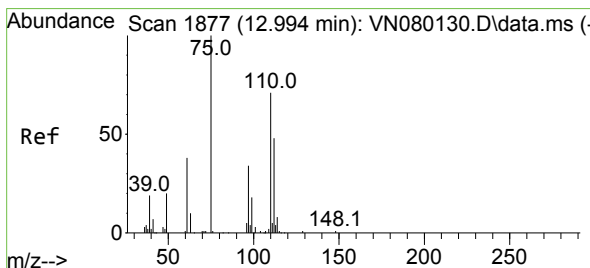
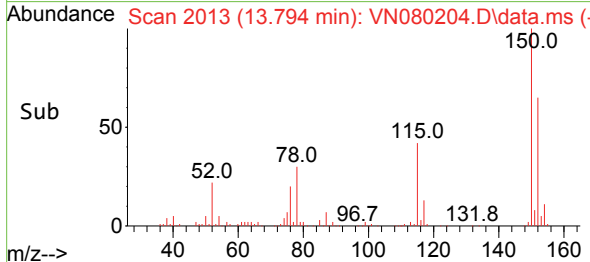
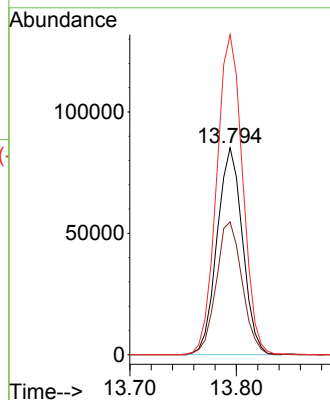
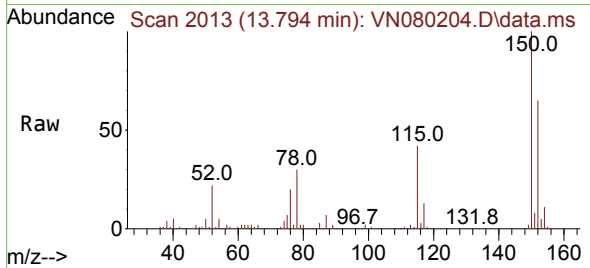




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN080204.D
 Acq: 20 Nov 2023 13:49

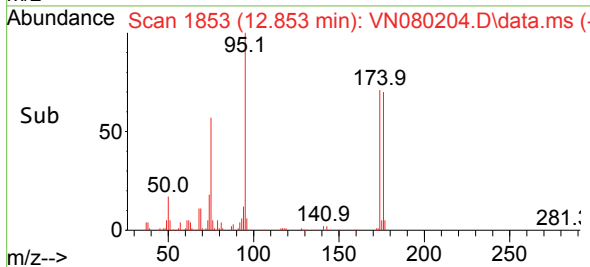
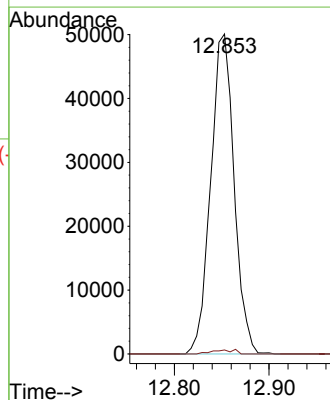
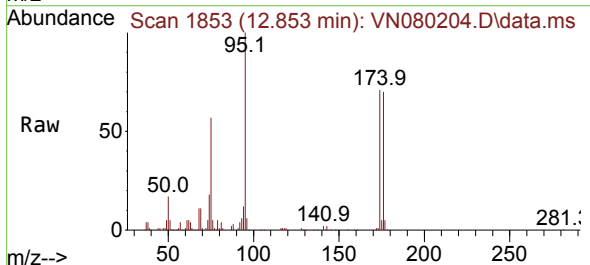
Instrument :
 MSVOA_N
 ClientSampleId :

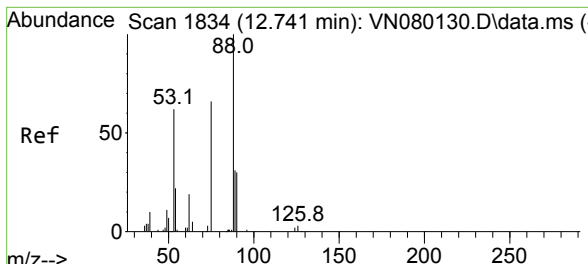
Tgt Ion:152 Resp: 141475
 Ion Ratio Lower Upper
 152 100
 115 65.6 32.3 96.8
 150 157.9 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 24.769 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN080204.D
 Acq: 20 Nov 2023 13:49

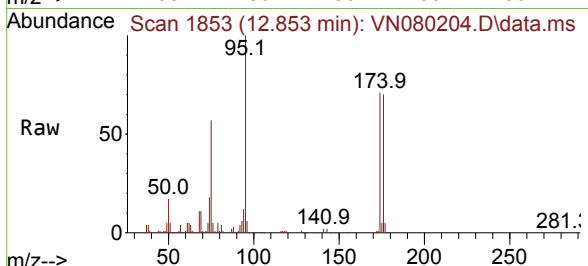
Tgt Ion: 75 Resp: 85860
 Ion Ratio Lower Upper
 75 100
 77 1.3 84.5 253.5#



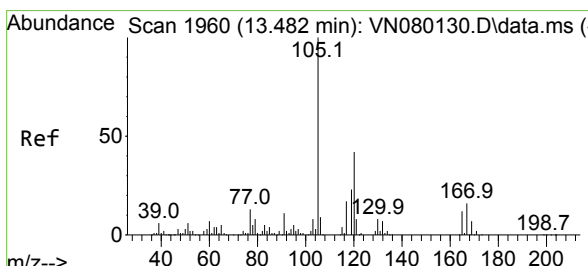
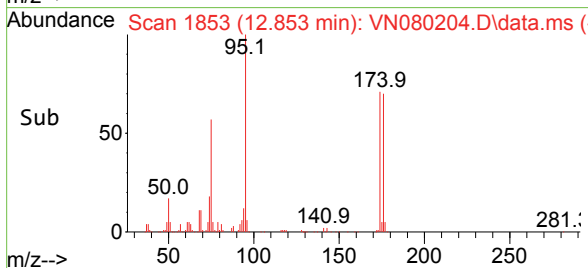
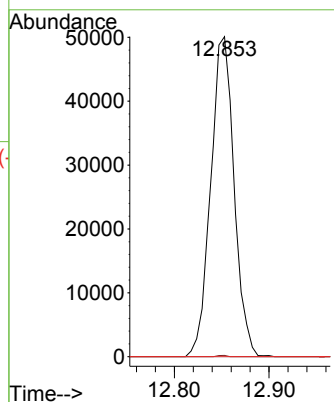


#81
trans-1,4-Dichloro-2-butene
Concen: 83.685 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Instrument :
MSVOA_N
ClientSampleId :

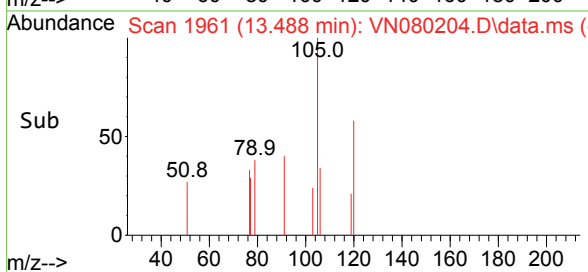
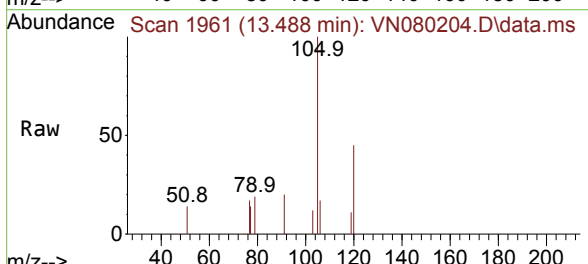
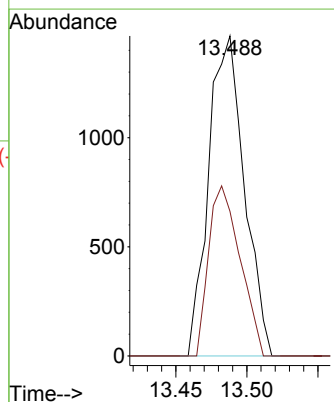


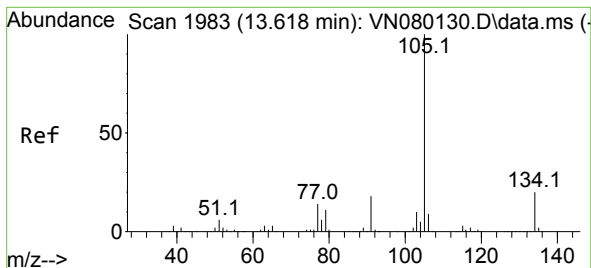
Tgt Ion: 75 Resp: 85860
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.272 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN080204.D
Acq: 20 Nov 2023 13:49

Tgt Ion: 105 Resp: 2562
Ion Ratio Lower Upper
105 100
120 46.9 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.264 ug/l

RT: 13.488 min Scan# 1983

Delta R.T. -0.129 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Instrument :

MSVOA_N

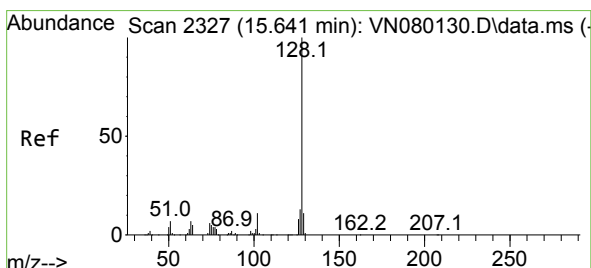
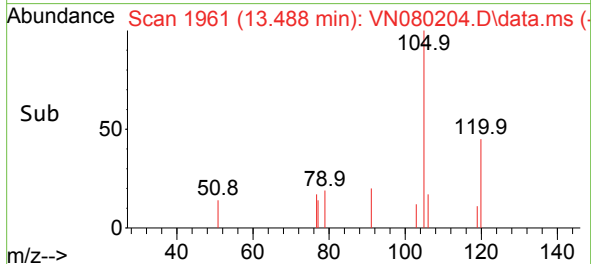
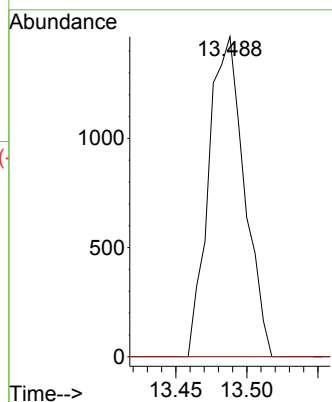
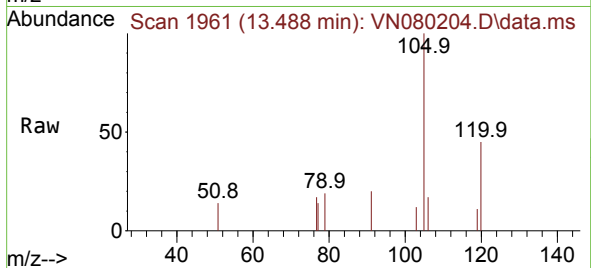
ClientSampleId :

Tgt Ion:105 Resp: 2562

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#



#95

Naphthalene

Concen: 1.773 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN080204.D

Acq: 20 Nov 2023 13:49

Tgt Ion:128 Resp: 14288

Ion Ratio Lower Upper

128 100

127 11.6 10.0 15.0

129 11.7 8.7 13.1

