

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032124\
 Data File : VN081532.D
 Acq On : 21 Mar 2024 20:10
 Operator : JC\MD
 Sample : P1798-15 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 22 05:13:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

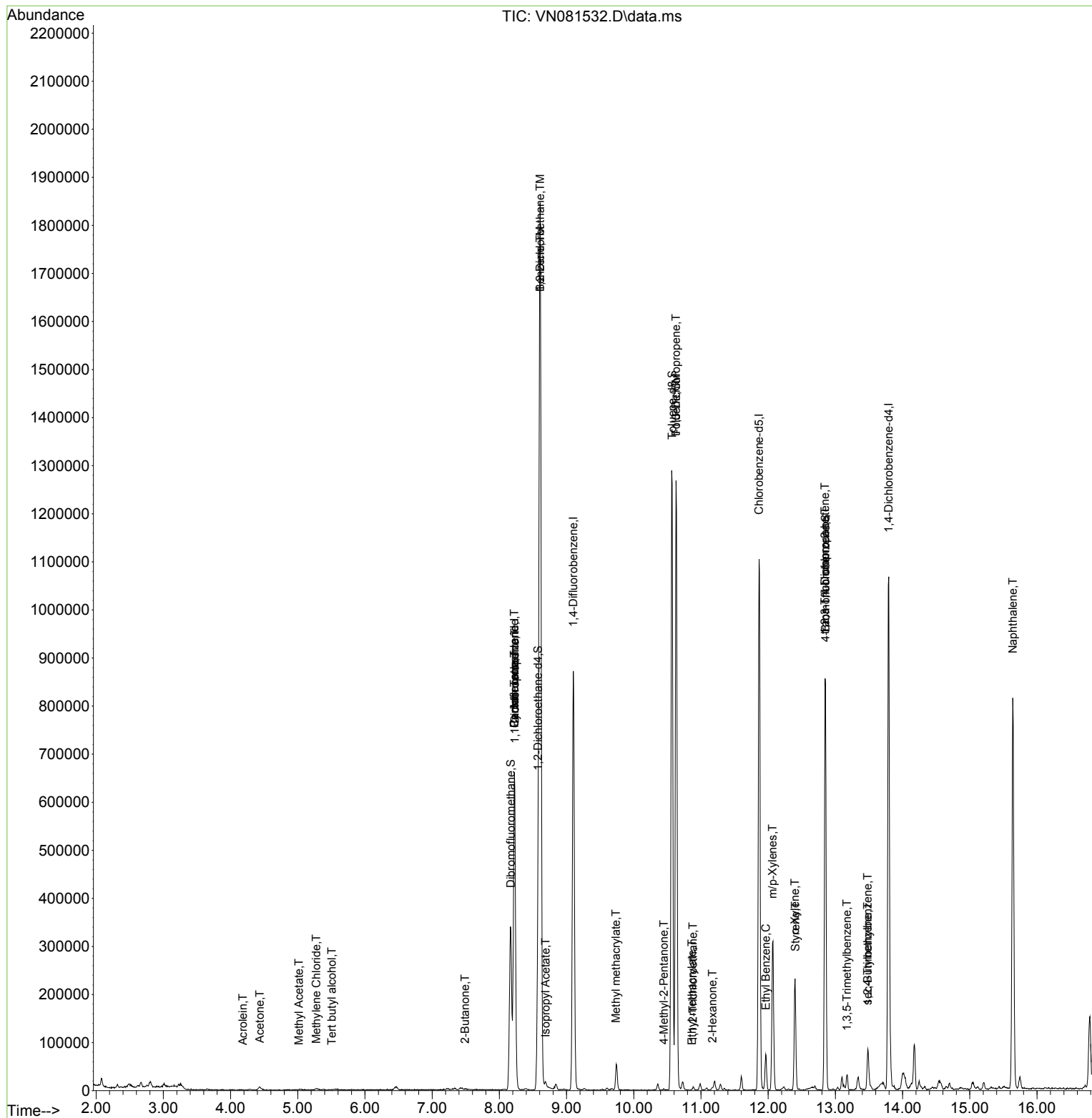
Internal Standards						
1) Pentafluorobenzene	8.224	168	465249	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	788127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	689855	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	285574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	295810	49.857	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.720%		
35) Dibromofluoromethane	8.171	113	244506	49.158	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.320%		
50) Toluene-d8	10.570	98	918260	51.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.140%		
62) 4-Bromofluorobenzene	12.853	95	302957	47.819	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	95.640%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.506	59	327	0.316	ug/l #	72
13) Acrolein	4.183	56	318	0.343	ug/l #	76
16) Acetone	4.436	43	12725	6.636	ug/l	94
18) Methyl Acetate	5.018	43	1249	0.211	ug/l	97
20) Methylene Chloride	5.277	84	2059	0.328	ug/l #	87
25) 2-Butanone	7.488	43	2412	0.733	ug/l	97
31) Cyclohexane	8.224	56	12590	1.304	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	36463	4.356	ug/l #	51
38) Carbon Tetrachloride	8.224	117	50984	5.560	ug/l #	18
40) Benzene	8.606	78	1851595	75.663	ug/l	96
42) 1,2-Dichloroethane	8.606	62	15442	1.793	ug/l	84
43) Isopropyl Acetate	8.688	43	11896	1.001	ug/l #	84
48) Methyl methacrylate	9.735	41	5558	1.014	ug/l #	49
51) 4-Methyl-2-Pentanone	10.447	43	1943	0.268	ug/l #	68
52) Toluene	10.629	92	567457	36.483	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	6699	0.705	ug/l #	1
55) 1,1,2-Trichloroethane	10.882	97	5175	0.827	ug/l #	17
56) Ethyl methacrylate	10.865	69	55	0.577	ug/l #	20
59) 2-Hexanone	11.170	43	5497	1.026	ug/l #	26
67) Ethyl Benzene	11.965	91	51914	1.833	ug/l	93
68) m/p-Xylenes	12.065	106	101736	9.580	ug/l	94
69) o-Xylene	12.400	106	62372	5.982	ug/l	99
70) Styrene	12.406	104	9422	0.560	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	155266	22.729	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	16472	0.819	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.847	75	155266	61.422	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.482	105	53329	2.639	ug/l	95
85) sec-Butylbenzene	13.482	105	53329	2.152	ug/l #	60
95) Naphthalene	15.641	128	762138	38.253	ug/l	99

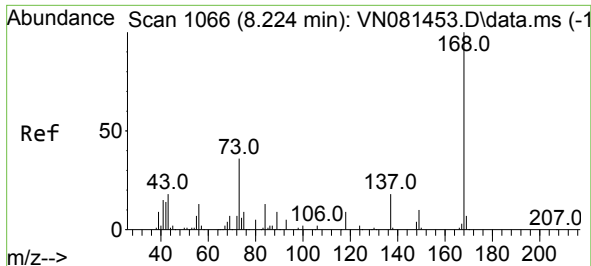
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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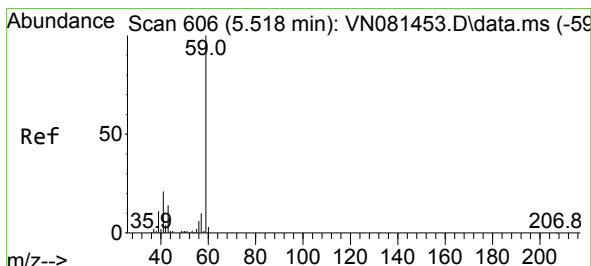
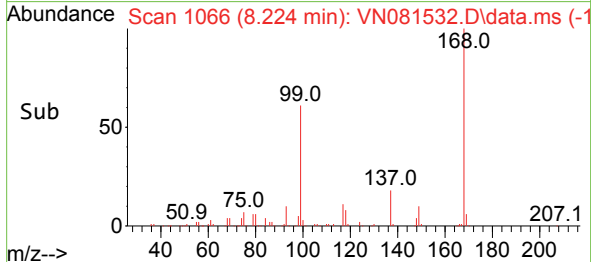
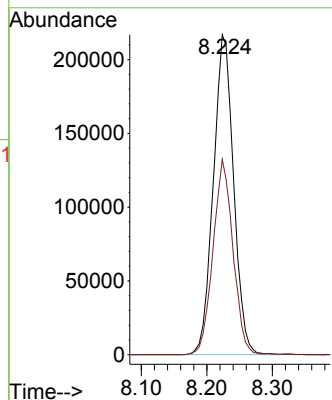
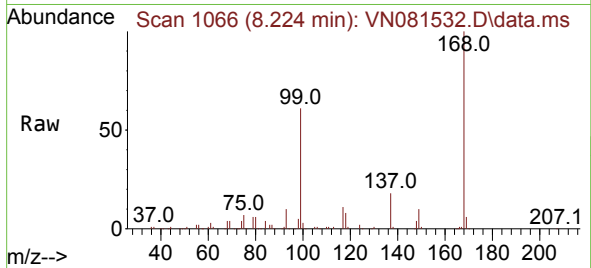




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

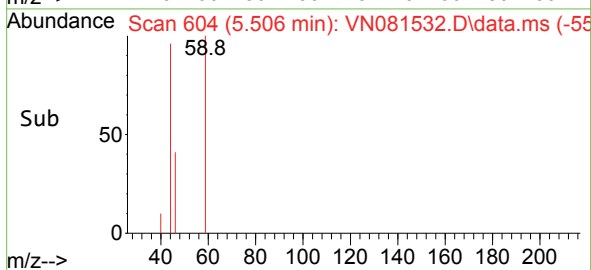
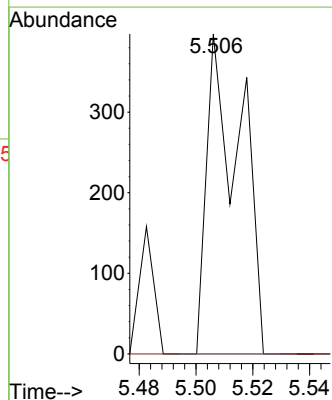
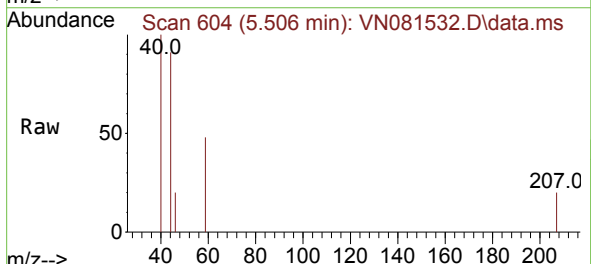
Instrument :
MSVOA_N
ClientSampleId :

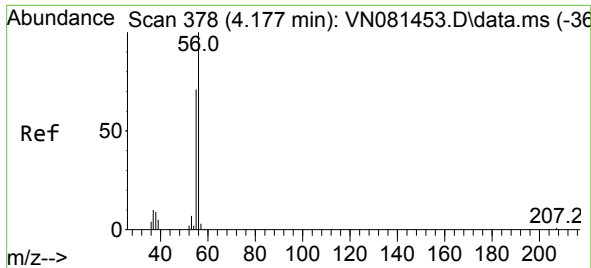
Tgt Ion:168 Resp: 465249
Ion Ratio Lower Upper
168 100
99 61.0 59.9 89.9



#11
Tert butyl alcohol
Concen: 0.316 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 59 Resp: 327
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

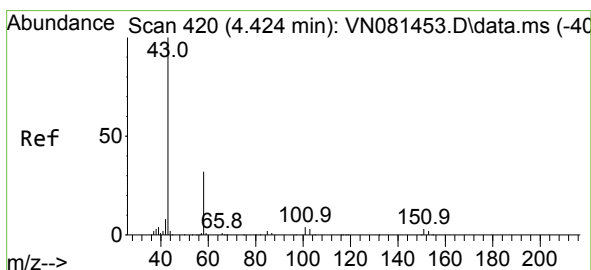
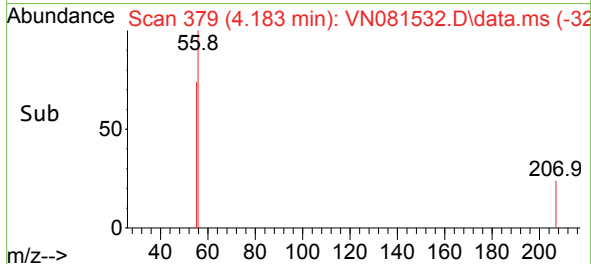
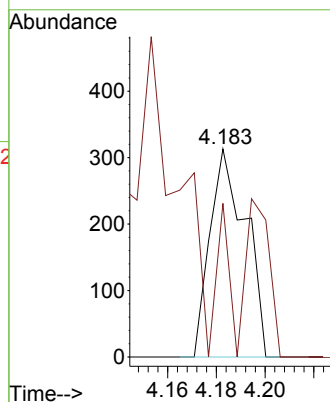
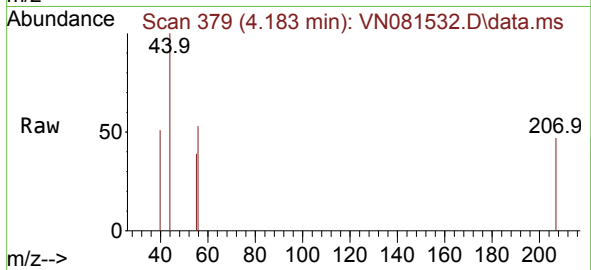




#13
Acrolein
Concen: 0.343 ug/l
RT: 4.183 min Scan# 318
Delta R.T. 0.006 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

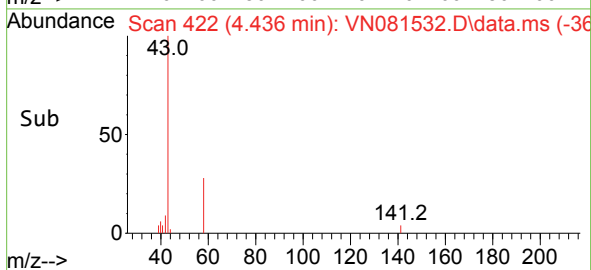
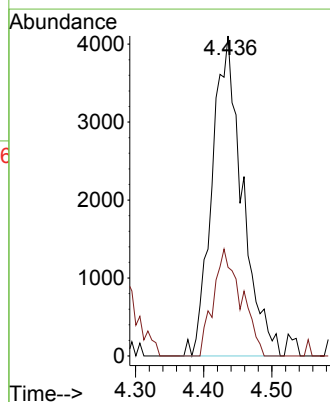
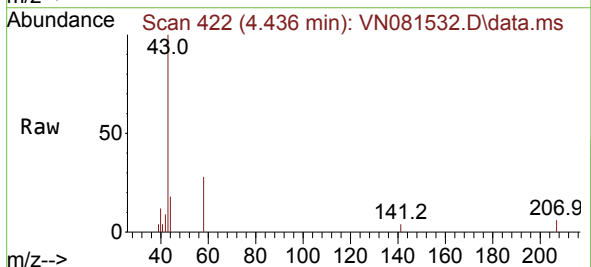
Instrument :
MSVOA_N
ClientSampleId :

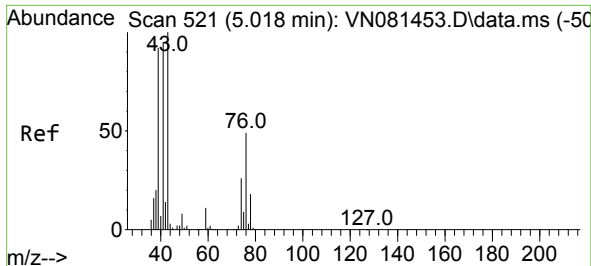
Tgt Ion: 56 Resp: 318
Ion Ratio Lower Upper
56 100
55 49.4 55.3 82.9#



#16
Acetone
Concen: 6.636 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

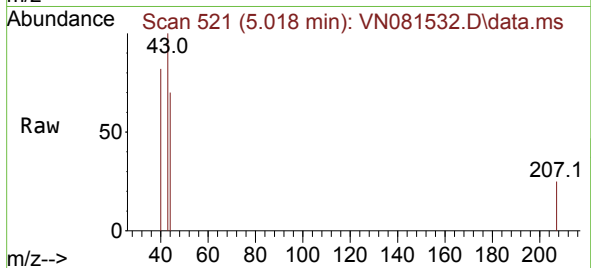
Tgt Ion: 43 Resp: 12725
Ion Ratio Lower Upper
43 100
58 27.7 24.8 37.2



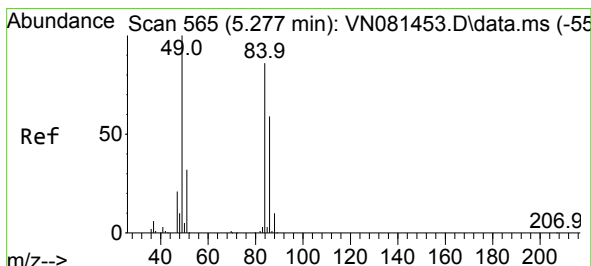
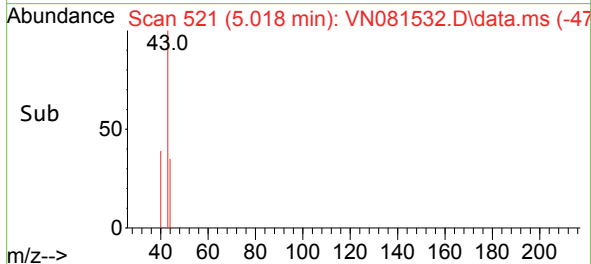
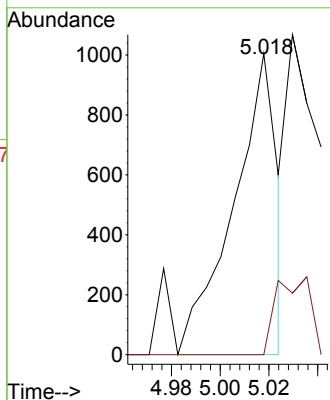


#18
Methyl Acetate
Concen: 0.211 ug/l
RT: 5.018 min Scan# 518
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Instrument :
MSVOA_N
ClientSampleId :

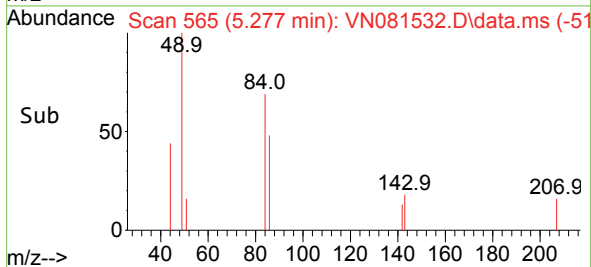
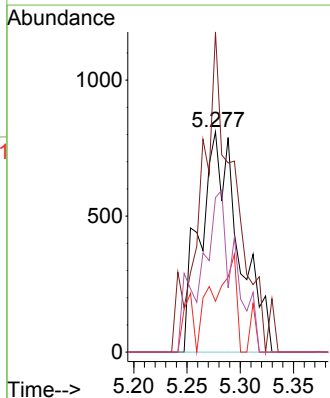
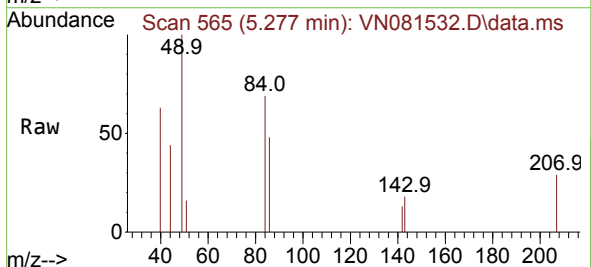


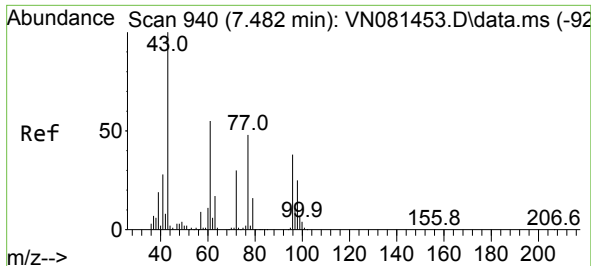
Tgt Ion: 43 Resp: 1249
Ion Ratio Lower Upper
43 100
74 20.2 17.3 25.9



#20
Methylene Chloride
Concen: 0.328 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

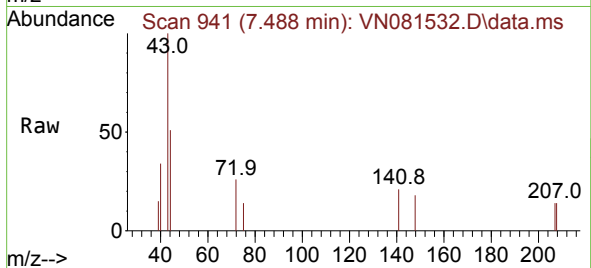
Tgt Ion: 84 Resp: 2059
Ion Ratio Lower Upper
84 100
49 145.3 108.1 162.1
51 23.1 32.9 49.3#
86 70.1 48.6 73.0



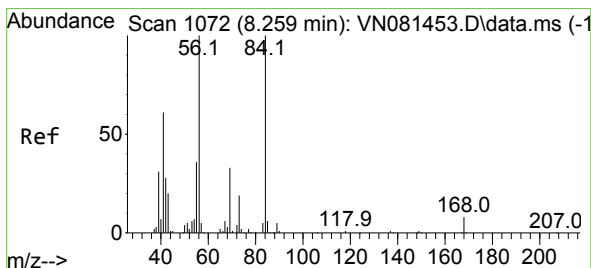
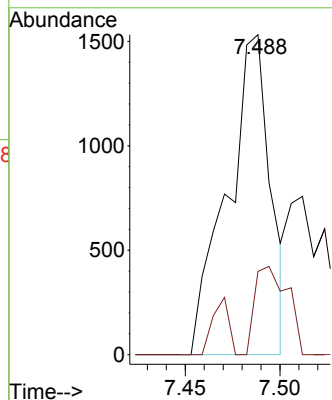
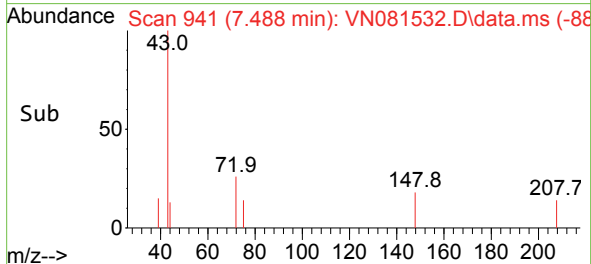


#25
2-Butanone
Concen: 0.733 ug/l
RT: 7.488 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Instrument :
MSVOA_N
ClientSampleId :

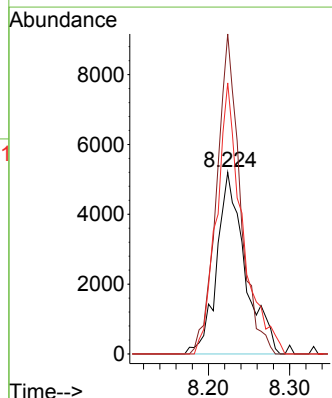
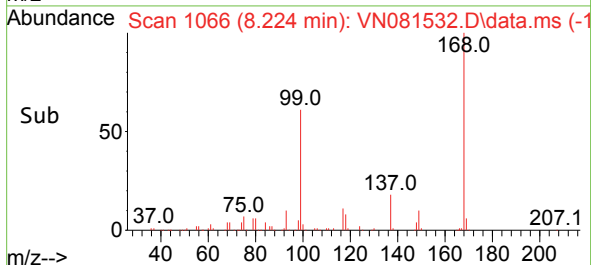
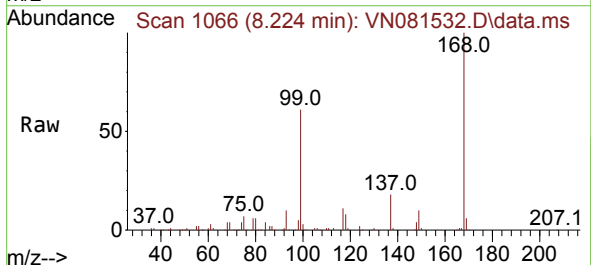


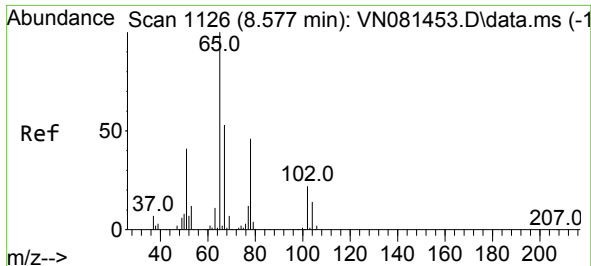
Tgt Ion: 43 Resp: 2412
Ion Ratio Lower Upper
43 100
72 26.0 19.5 29.3



#31
Cyclohexane
Concen: 1.304 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 56 Resp: 12590
Ion Ratio Lower Upper
56 100
69 176.2 20.1 30.1#
84 149.2 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 49.857 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

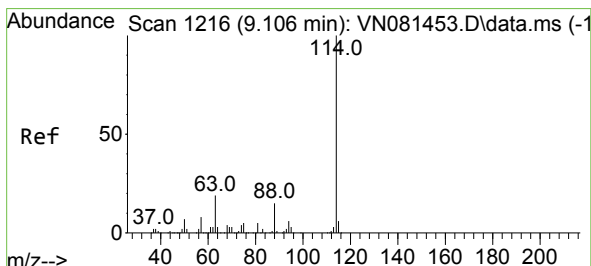
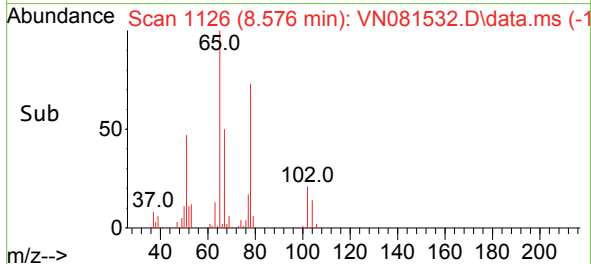
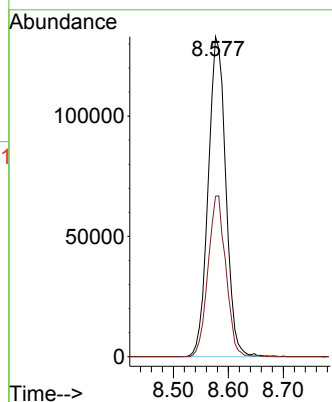
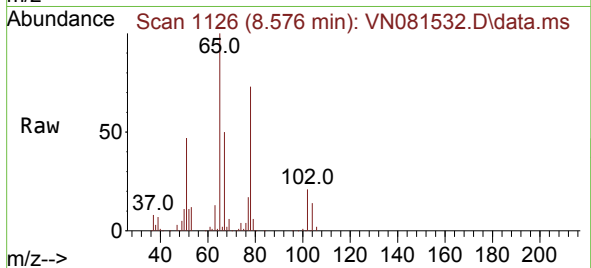
ClientSampleId :

Tgt Ion: 65 Resp: 295810

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

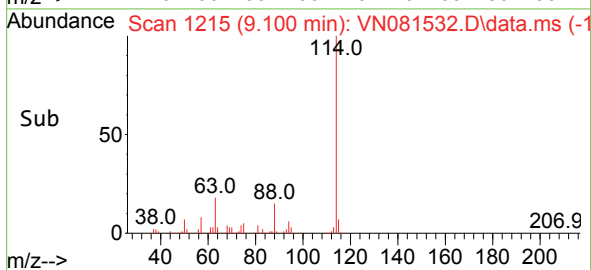
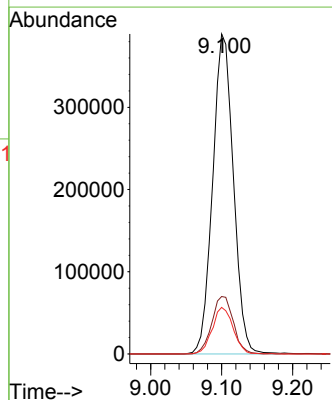
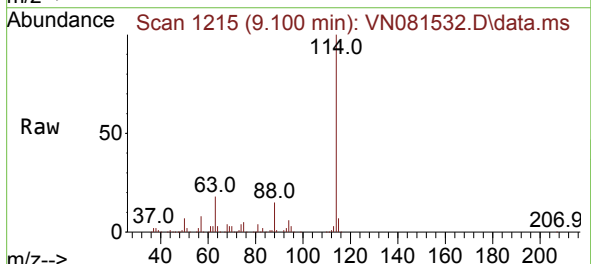
Tgt Ion: 114 Resp: 788127

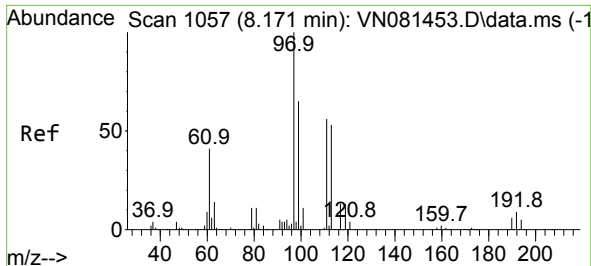
Ion Ratio Lower Upper

114 100

63 17.9 0.0 48.0

88 14.5 0.0 34.8





#35

Dibromofluoromethane

Concen: 49.158 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

ClientSampleId :

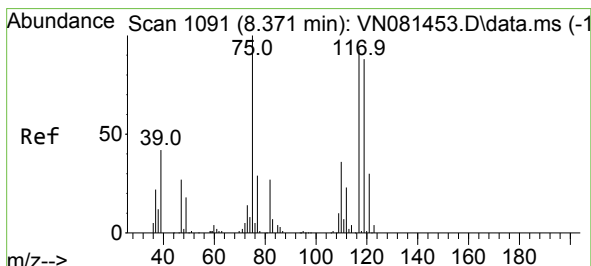
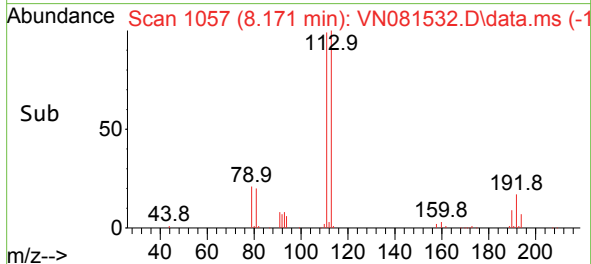
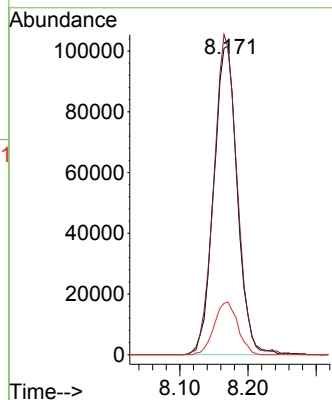
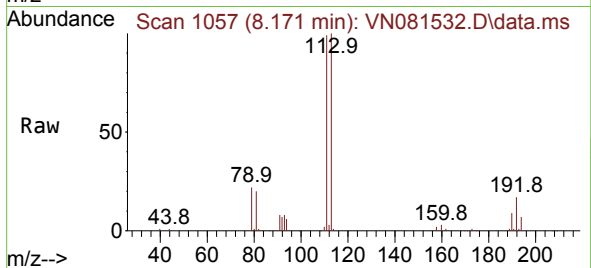
Tgt Ion:113 Resp: 244506

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

192 17.0 12.5 18.7



#36

1,1-Dichloropropene

Concen: 4.356 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

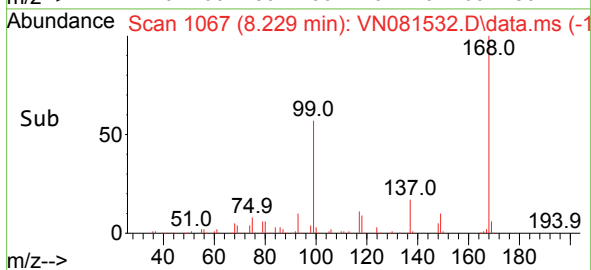
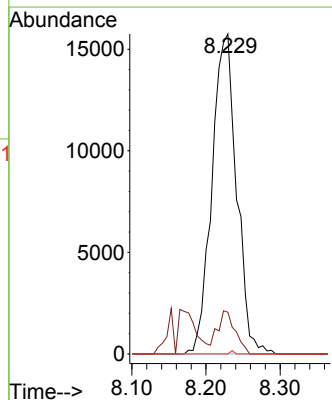
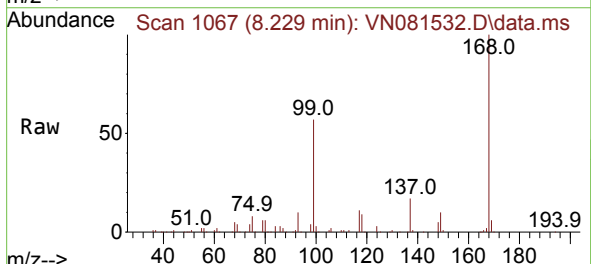
Tgt Ion: 75 Resp: 36463

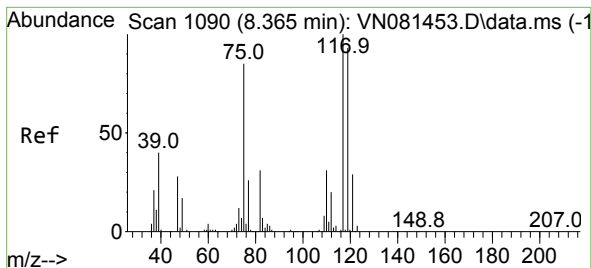
Ion Ratio Lower Upper

75 100

110 9.6 16.0 48.0#

77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.560 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

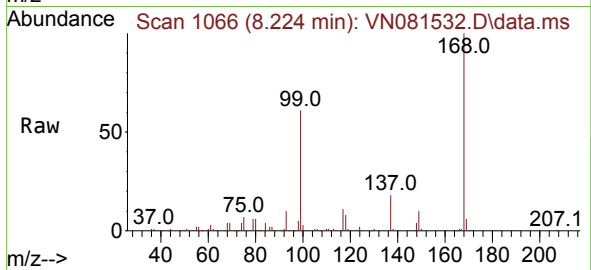
Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

ClientSampleId :



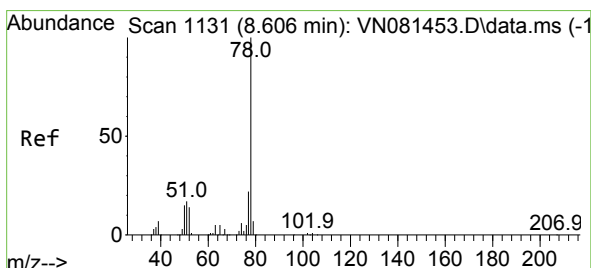
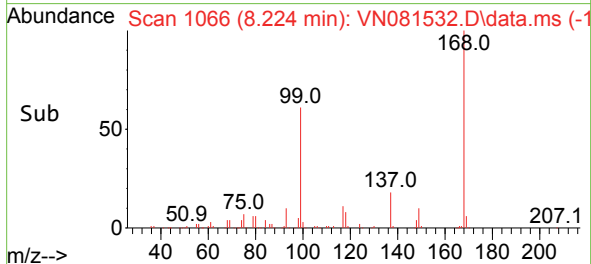
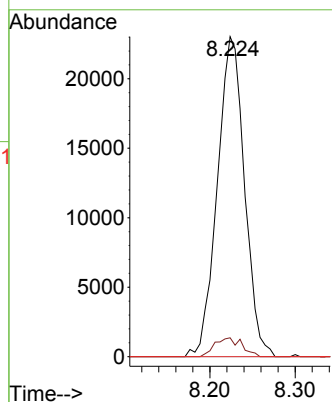
Tgt Ion:117 Resp: 50984

Ion Ratio Lower Upper

117 100

119 5.9 73.4 110.2#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 75.663 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN081532.D

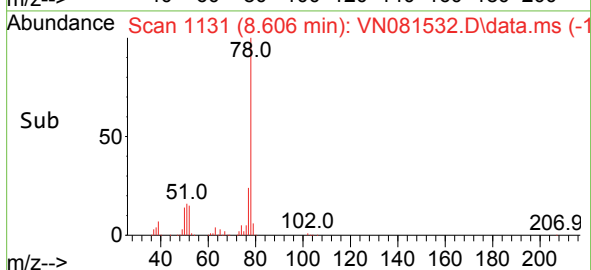
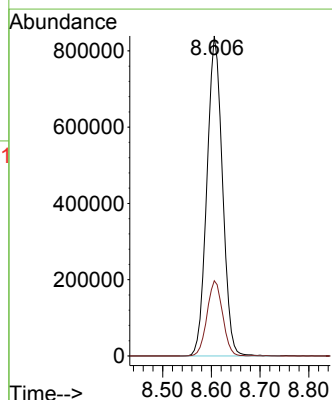
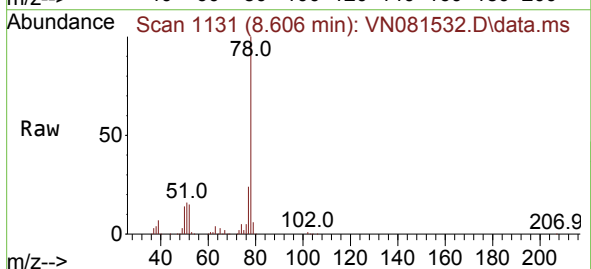
Acq: 21 Mar 2024 20:10

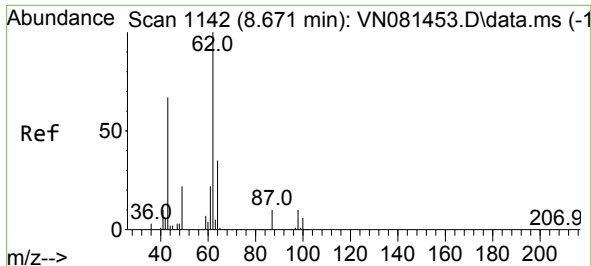
Tgt Ion: 78 Resp: 1851595

Ion Ratio Lower Upper

78 100

77 23.5 20.4 30.6





#42

1,2-Dichloroethane

Concen: 1.793 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.065 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

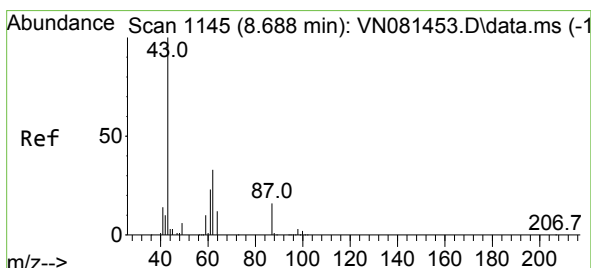
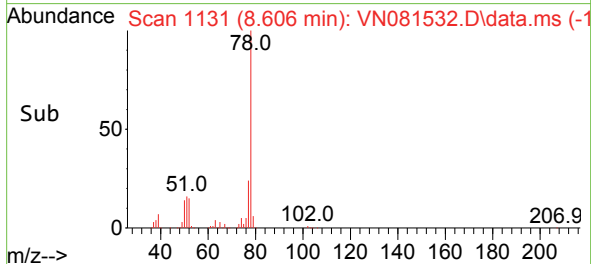
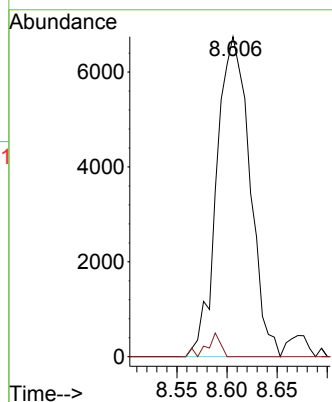
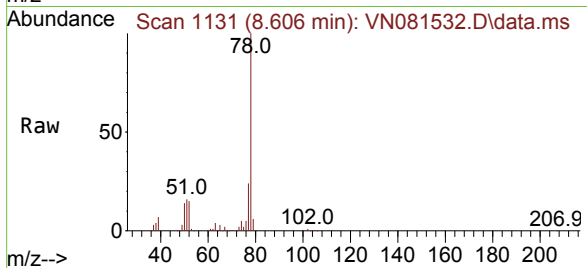
ClientSampleId :

Tgt Ion: 62 Resp: 15442

Ion Ratio Lower Upper

62 100

98 3.1 0.0 18.0



#43

Isopropyl Acetate

Concen: 1.001 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

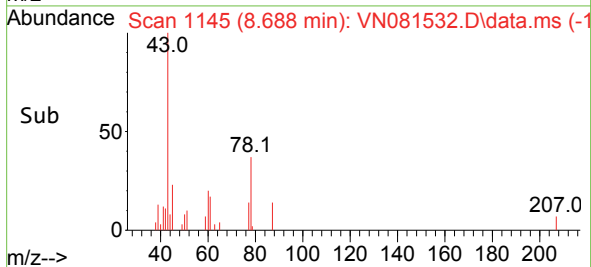
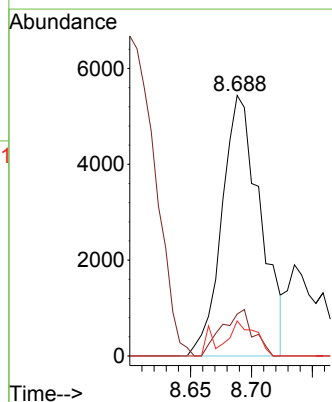
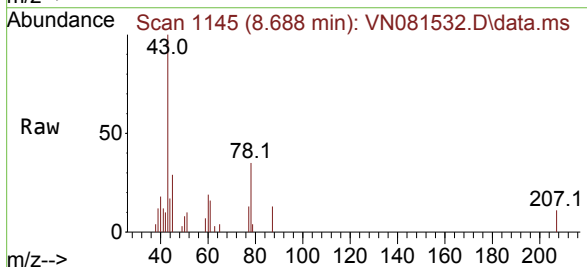
Tgt Ion: 43 Resp: 11896

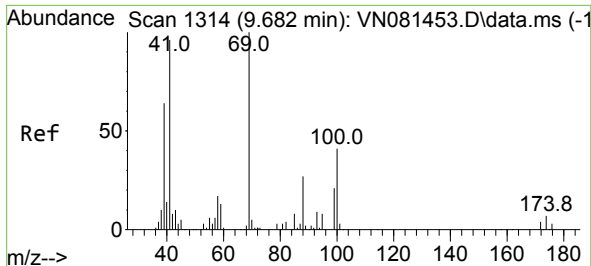
Ion Ratio Lower Upper

43 100

61 14.6 19.9 29.9#

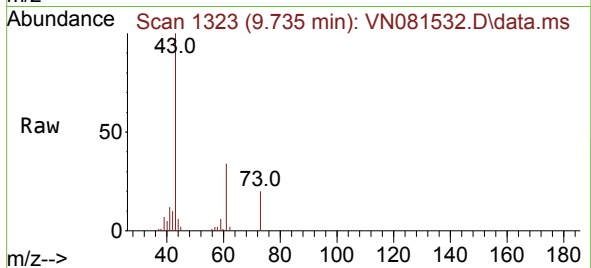
87 9.2 9.0 13.6



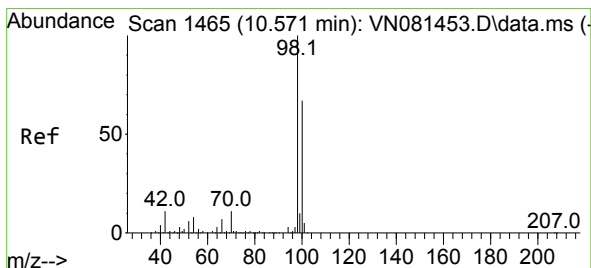
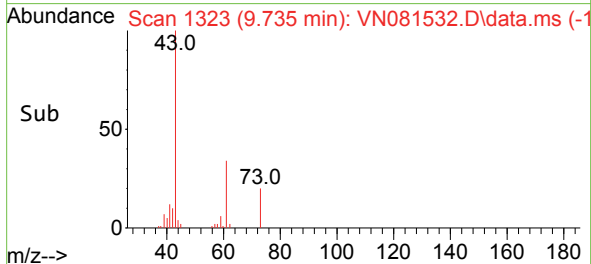
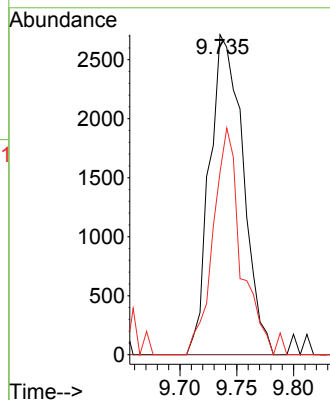


#48
Methyl methacrylate
Concen: 1.014 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Instrument :
MSVOA_N
ClientSampleId :

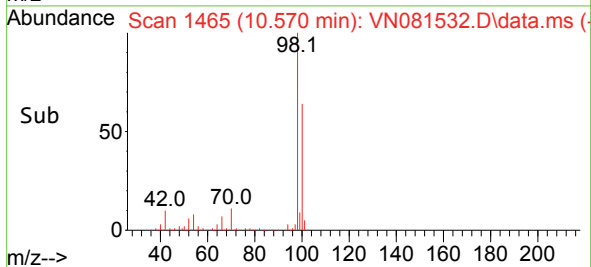
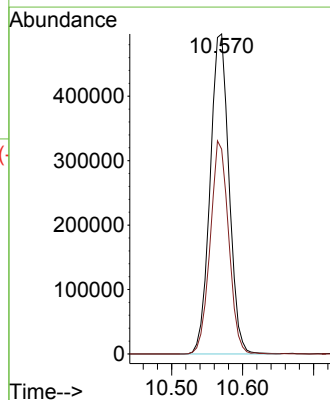
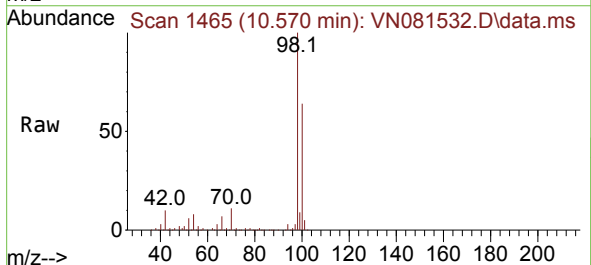


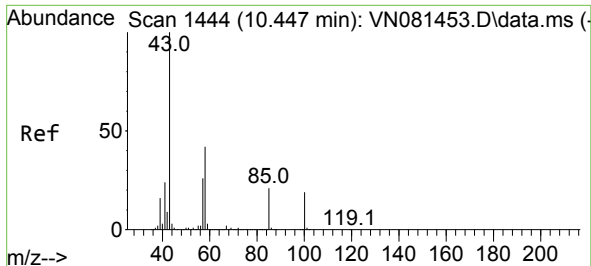
Tgt Ion: 41 Resp: 5558
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 60.4 47.6 71.4



#50
Toluene-d8
Concen: 51.071 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 98 Resp: 918260
Ion Ratio Lower Upper
98 100
100 64.9 51.4 77.0

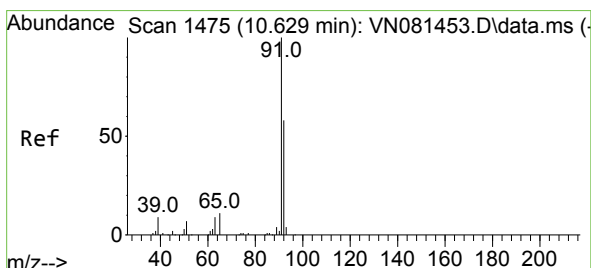
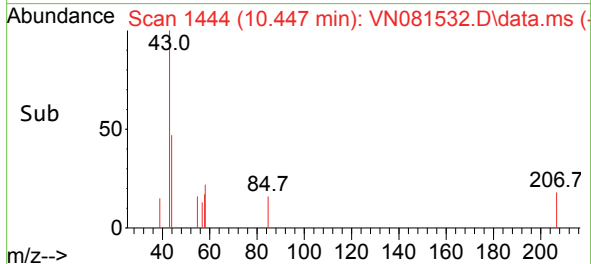
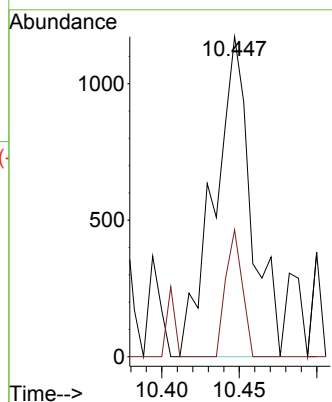
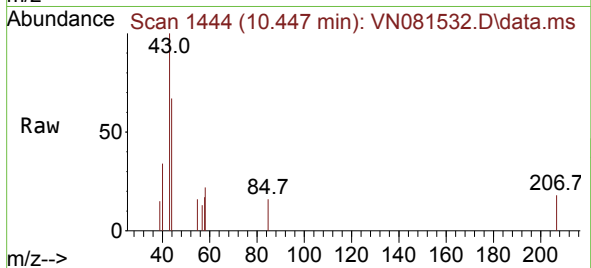




#51
4-Methyl-2-Pentanone
Concen: 0.268 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

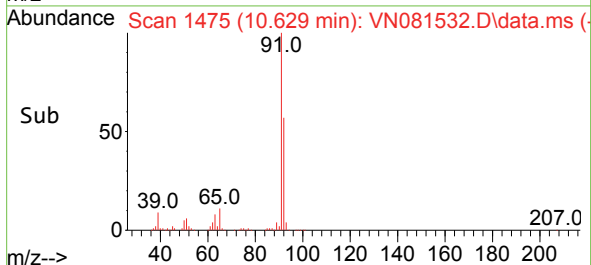
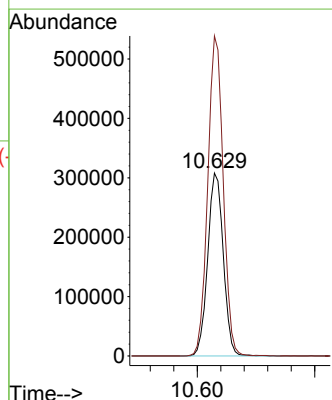
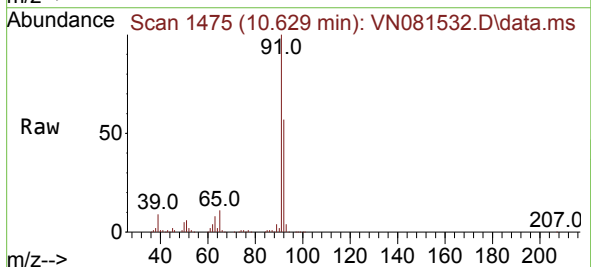
Instrument :
MSVOA_N
ClientSampleId :

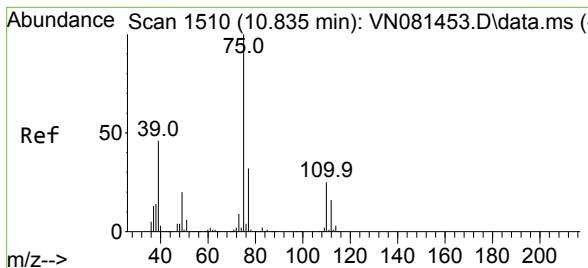
Tgt Ion: 43 Resp: 1943
Ion Ratio Lower Upper
43 100
58 17.8 29.4 44.0#



#52
Toluene
Concen: 36.483 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 92 Resp: 567457
Ion Ratio Lower Upper
92 100
91 173.3 139.4 209.0

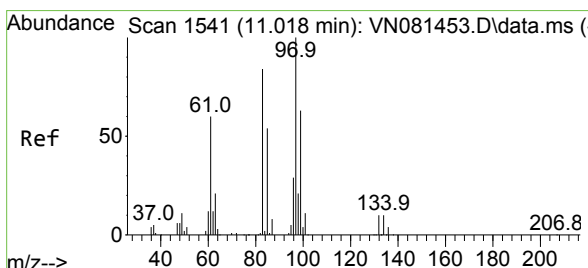
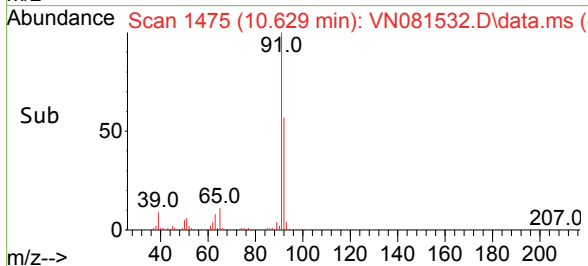
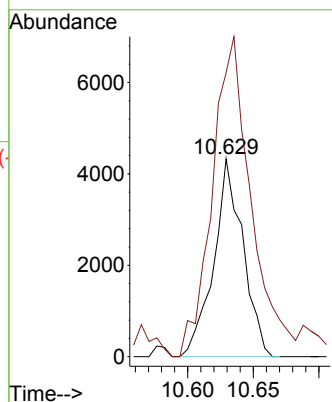
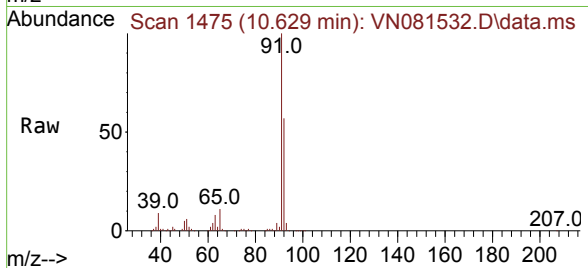




#53
t-1,3-Dichloropropene
Concen: 0.705 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.206 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

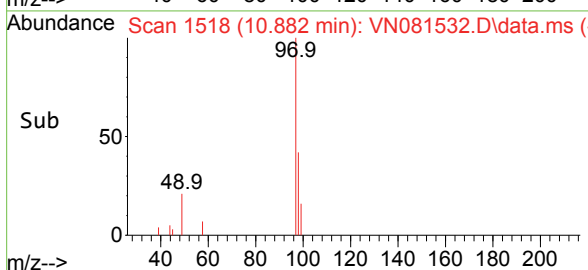
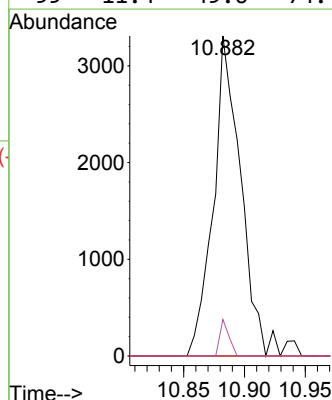
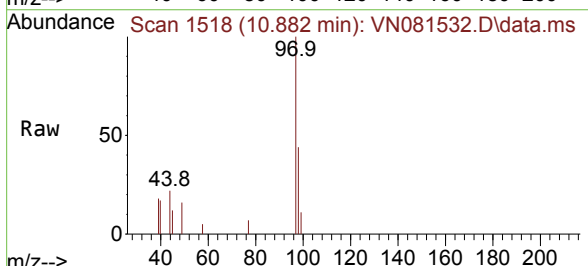
Instrument :
MSVOA_N
ClientSampleId :

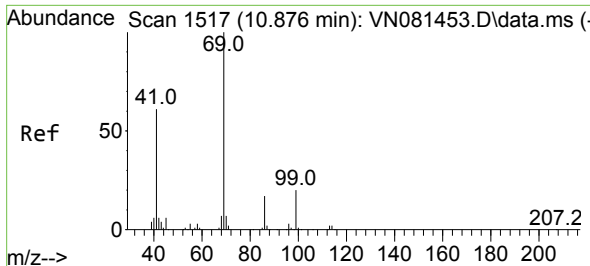
Tgt Ion: 75 Resp: 6699
Ion Ratio Lower Upper
75 100
77 143.5 25.5 38.3#



#55
1,1,2-Trichloroethane
Concen: 0.827 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.135 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

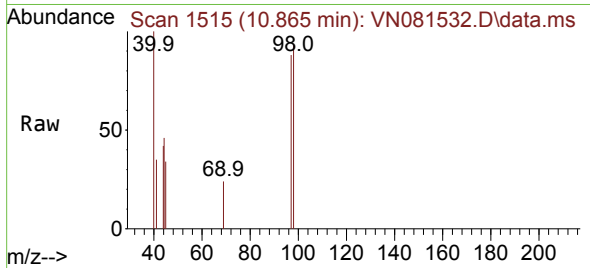
Tgt Ion: 97 Resp: 5175
Ion Ratio Lower Upper
97 100
83 0.0 72.9 109.3#
85 0.0 50.2 75.2#
99 11.4 49.6 74.4#



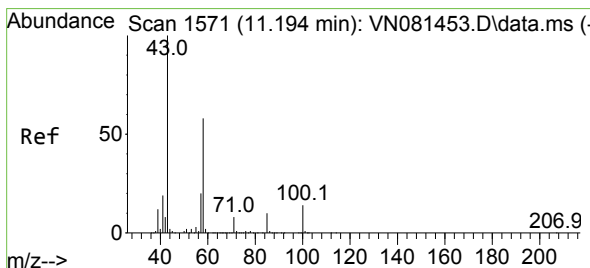
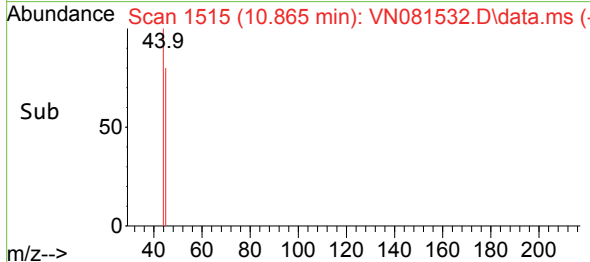
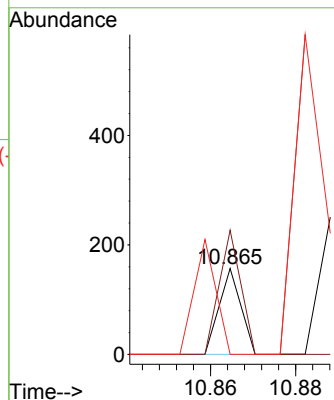


#56
Ethyl methacrylate
Concen: 0.577 ug/l
RT: 10.865 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Instrument :
MSVOA_N
ClientSampleId :

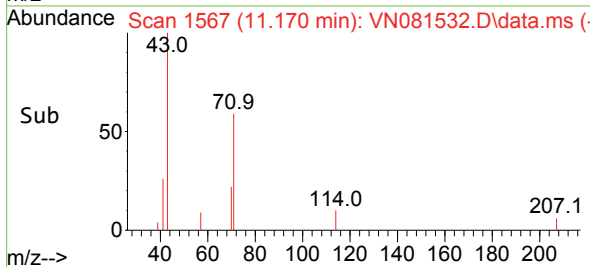
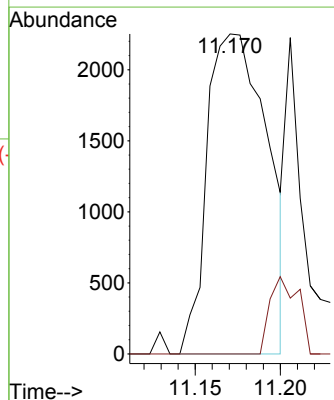
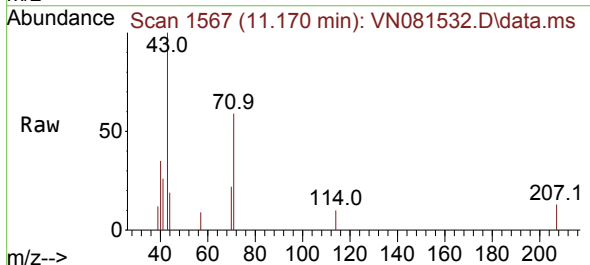


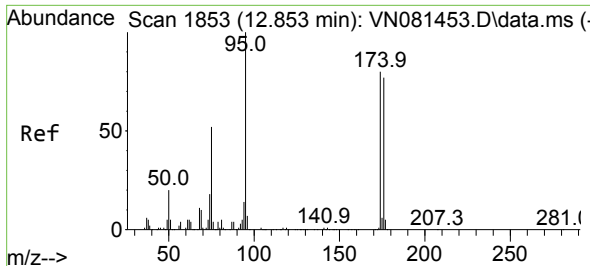
Tgt Ion: 69 Resp: 55
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 0.0 31.8 47.6#



#59
2-Hexanone
Concen: 1.026 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 43 Resp: 5497
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

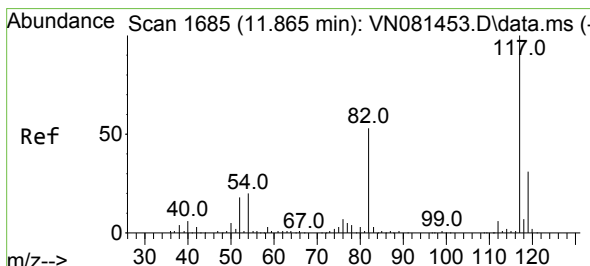
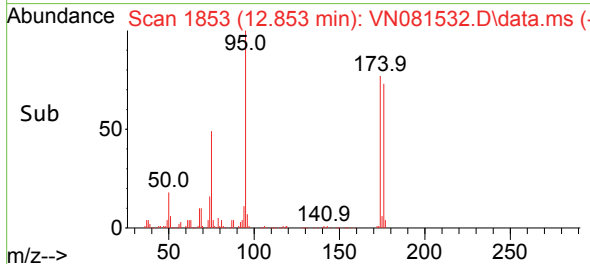
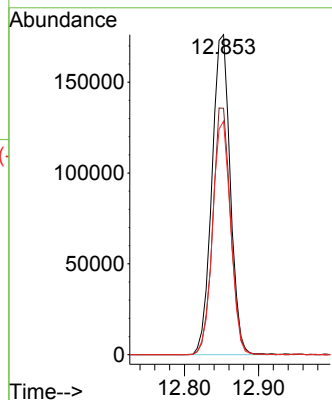
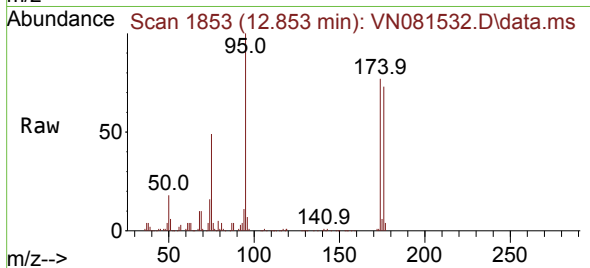




#62
4-Bromofluorobenzene
Concen: 47.819 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

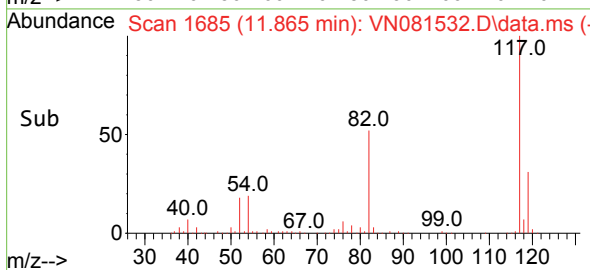
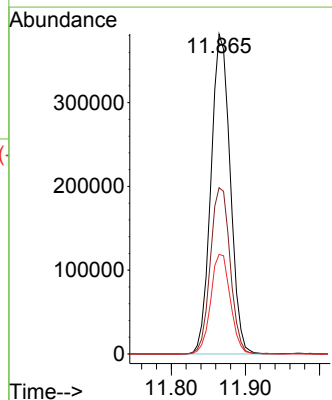
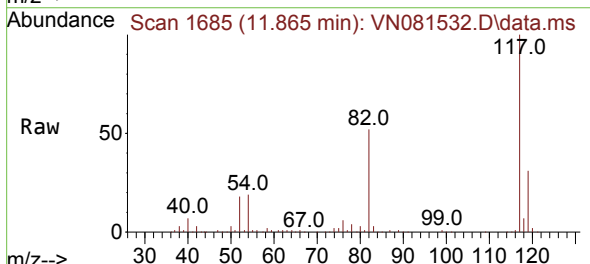
Instrument :
MSVOA_N
ClientSampleId :

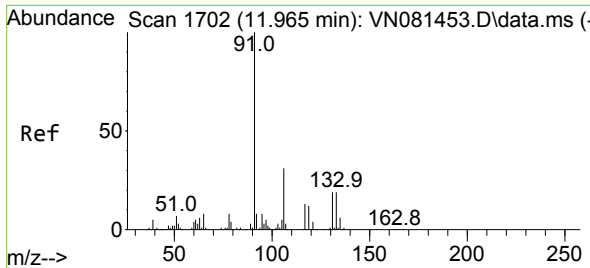
Tgt Ion: 95 Resp: 302957
Ion Ratio Lower Upper
95 100
174 75.4 0.0 120.4
176 71.8 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion: 117 Resp: 689855
Ion Ratio Lower Upper
117 100
82 51.9 52.7 79.1#
119 31.1 25.3 37.9

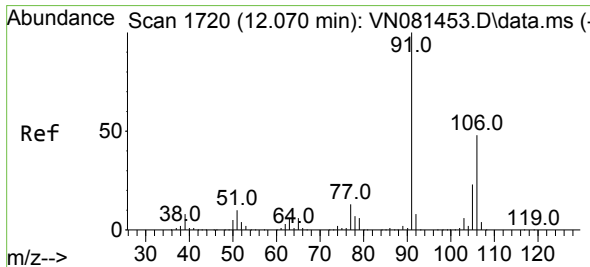
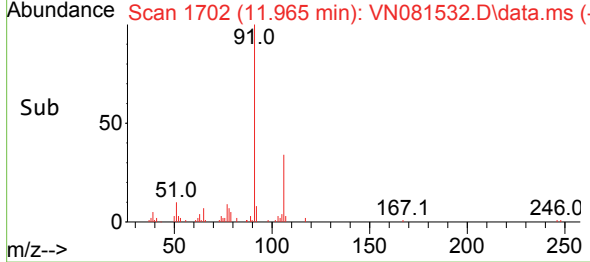
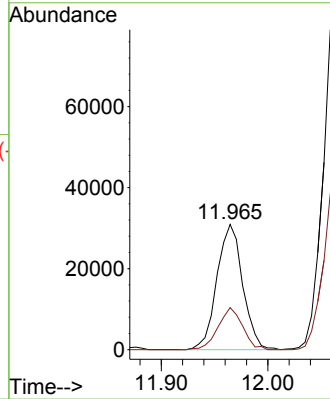
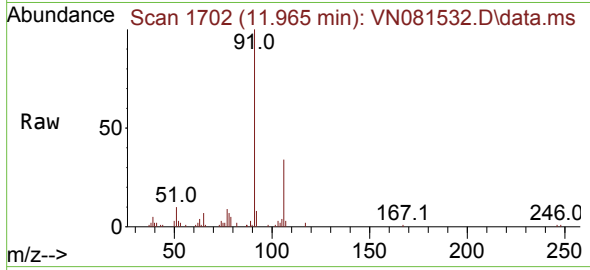




#67
Ethyl Benzene
Concen: 1.833 ug/l
RT: 11.965 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

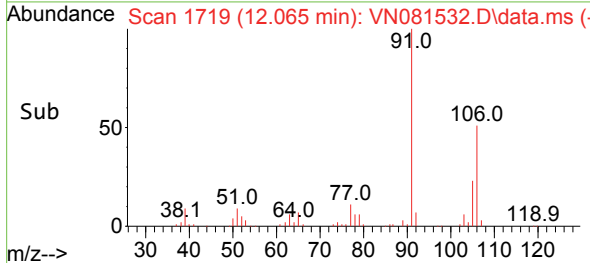
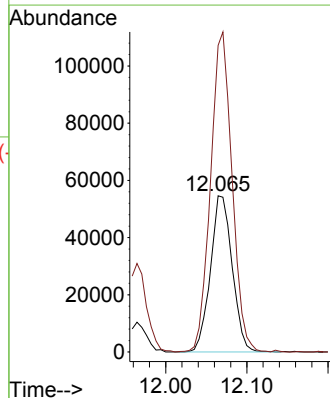
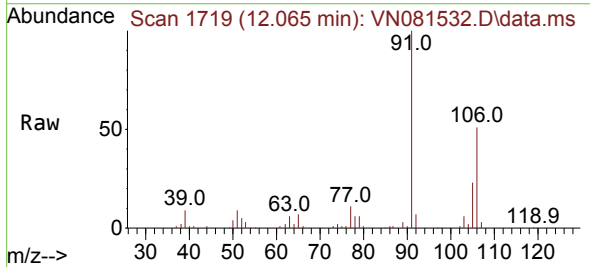
Instrument :
MSVOA_N
ClientSampleId :

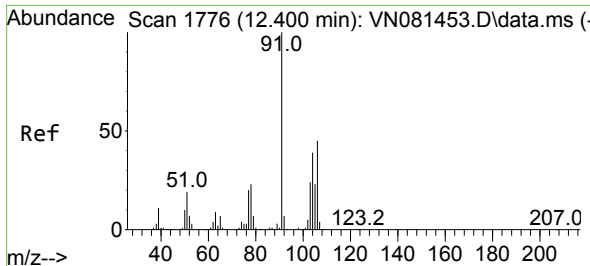
Tgt Ion: 91 Resp: 51914
Ion Ratio Lower Upper
91 100
106 33.6 23.8 35.6



#68
m/p-Xylenes
Concen: 9.580 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion:106 Resp: 101736
Ion Ratio Lower Upper
106 100
91 202.1 169.0 253.6

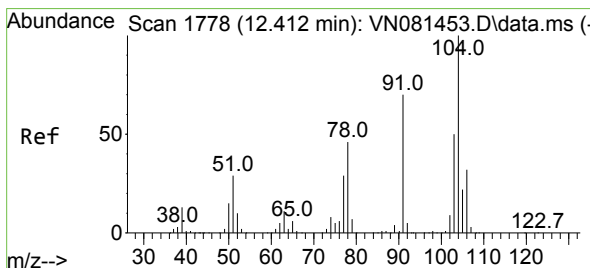
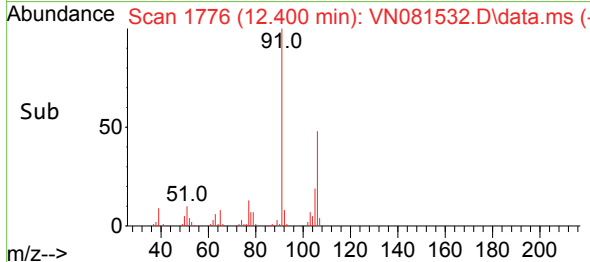
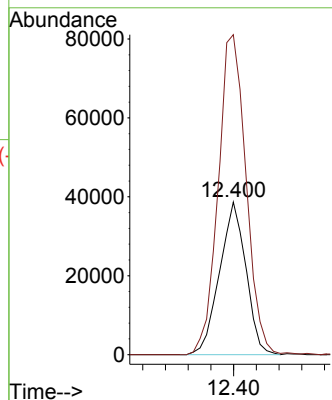
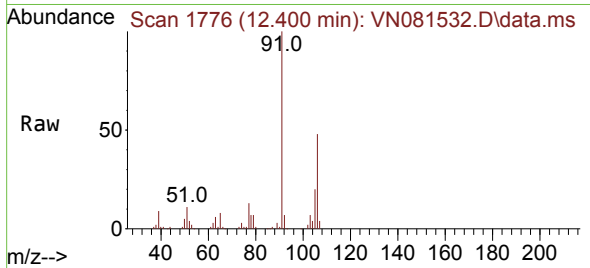




#69
o-Xylene
Concen: 5.982 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

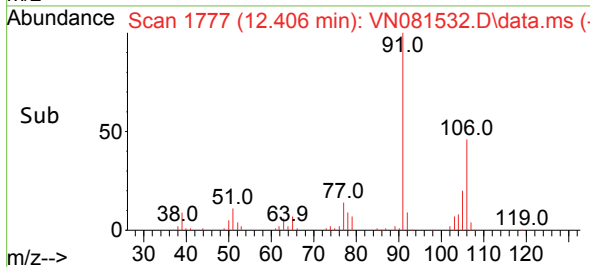
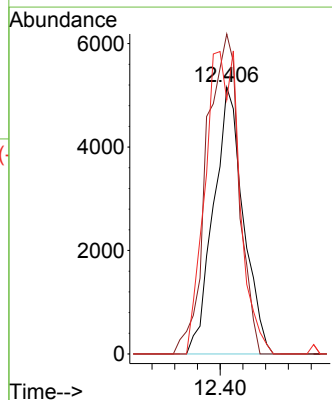
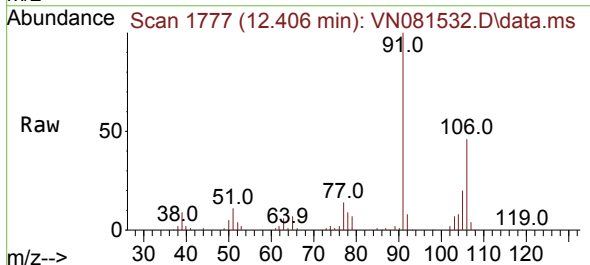
Instrument :
MSVOA_N
ClientSampleId :

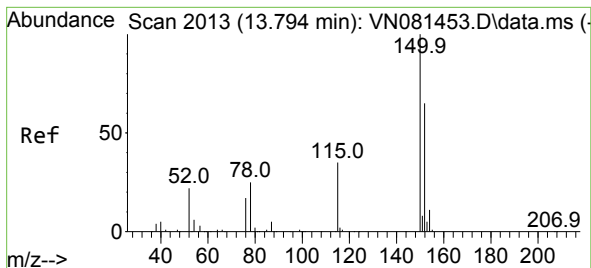
Tgt Ion:106 Resp: 62372
Ion Ratio Lower Upper
106 100
91 221.8 112.1 336.3



#70
Styrene
Concen: 0.560 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

Tgt Ion:104 Resp: 9422
Ion Ratio Lower Upper
104 100
78 130.0 43.8 65.8#
103 130.4 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

ClientSampleId :

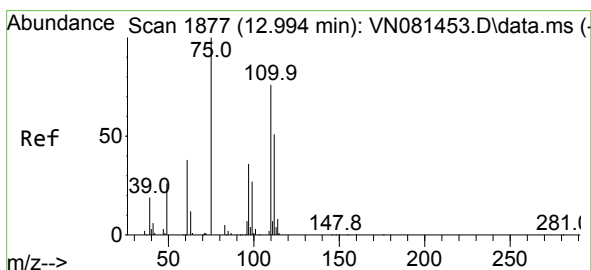
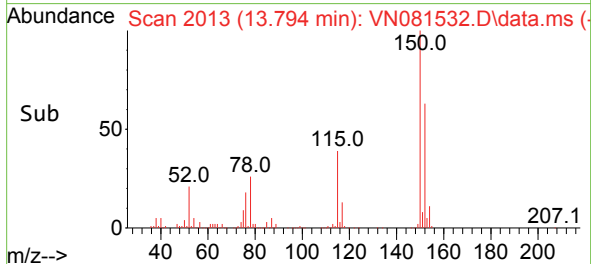
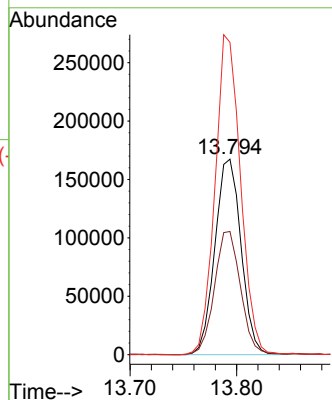
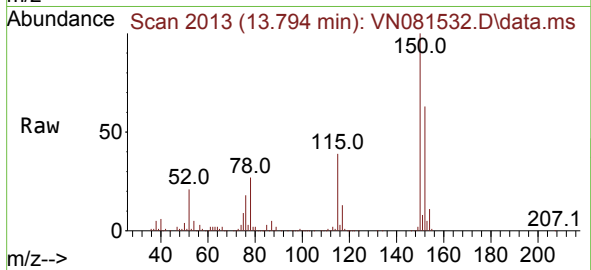
Tgt Ion:152 Resp: 285574

Ion Ratio Lower Upper

152 100

115 63.0 32.3 96.8

150 160.1 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 22.729 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081532.D

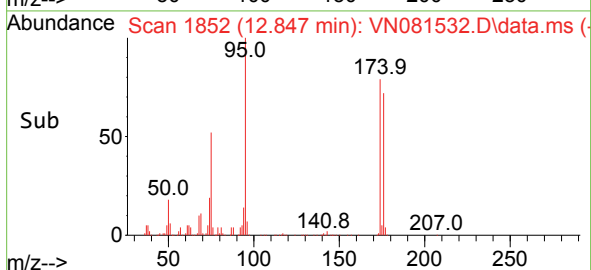
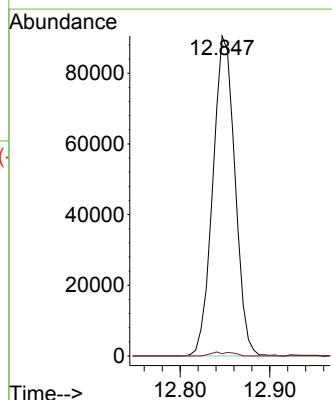
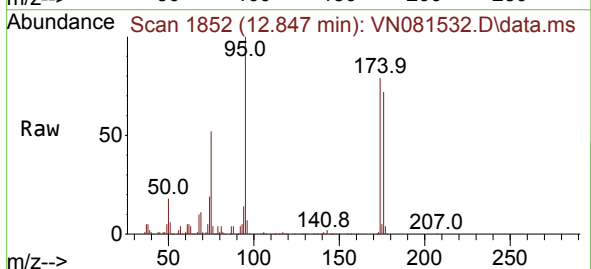
Acq: 21 Mar 2024 20:10

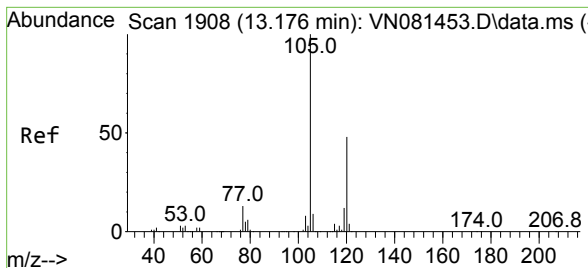
Tgt Ion: 75 Resp: 155266

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.819 ug/l

RT: 13.170 min Scan# 1908

Delta R.T. -0.006 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

Instrument :

MSVOA_N

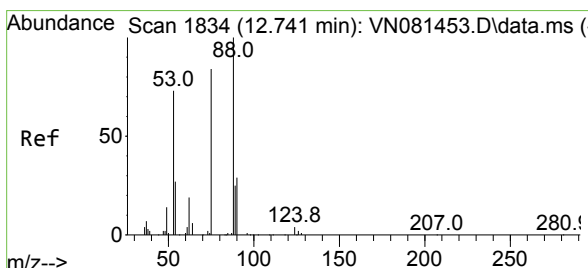
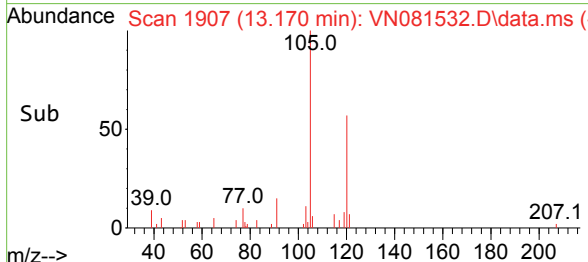
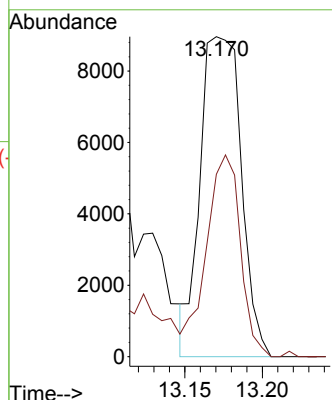
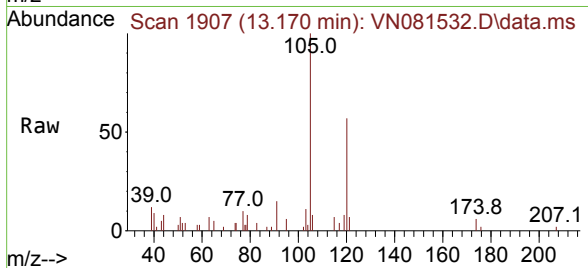
ClientSampleId :

Tgt Ion:105 Resp: 16472

Ion Ratio Lower Upper

105 100

120 52.4 23.0 69.0



#81

trans-1,4-Dichloro-2-butene

Concen: 61.422 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN081532.D

Acq: 21 Mar 2024 20:10

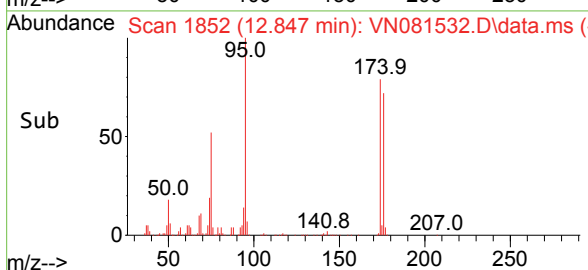
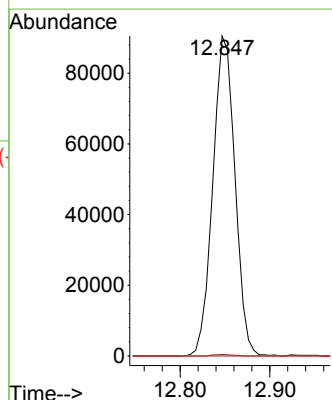
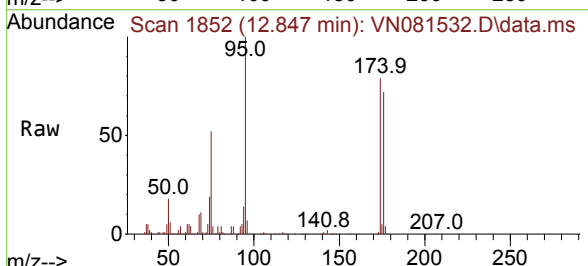
Tgt Ion: 75 Resp: 155266

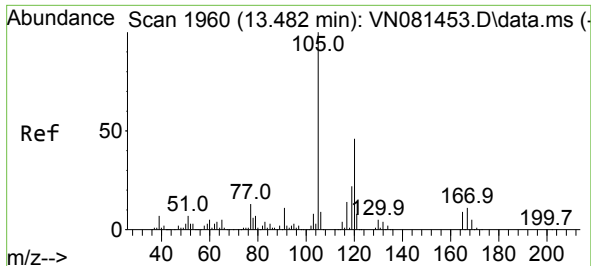
Ion Ratio Lower Upper

75 100

53 0.4 71.4 107.2#

89 0.0 33.4 50.0#

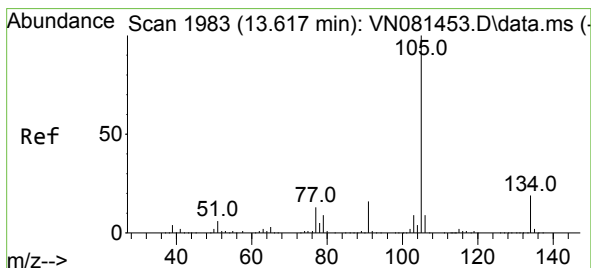
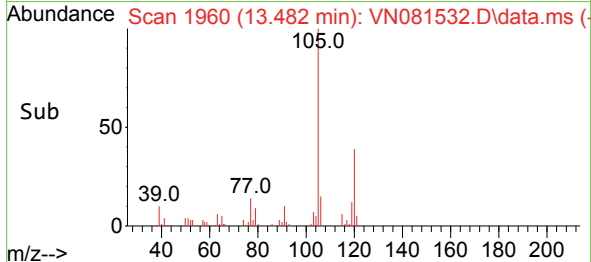
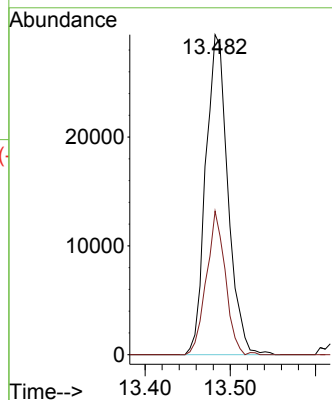
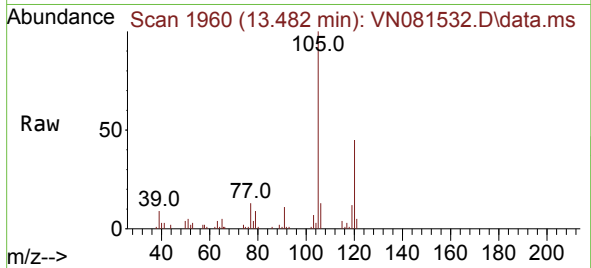




#84
1,2,4-Trimethylbenzene
Concen: 2.639 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

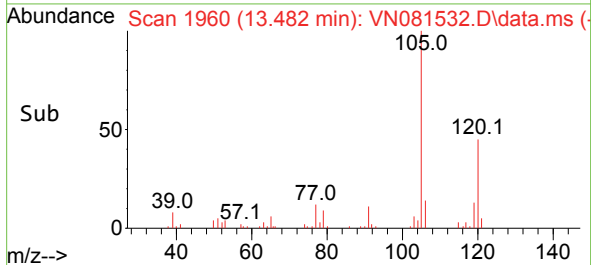
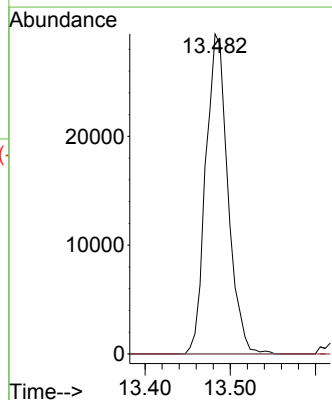
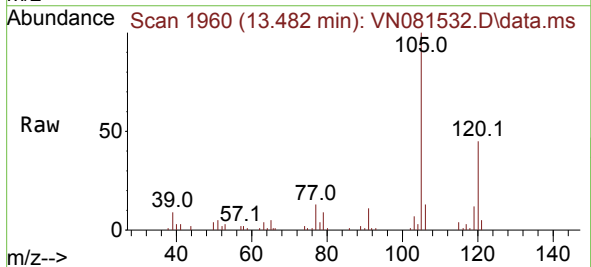
Instrument :
MSVOA_N
ClientSampleId :

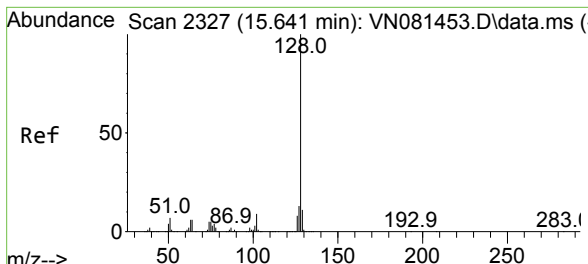
Tgt Ion:105 Resp: 53329
Ion Ratio Lower Upper
105 100
120 38.4 20.9 62.7



#85
sec-Butylbenzene
Concen: 2.152 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.135 min
Lab File: VN081532.D
Acq: 21 Mar 2024 20:10

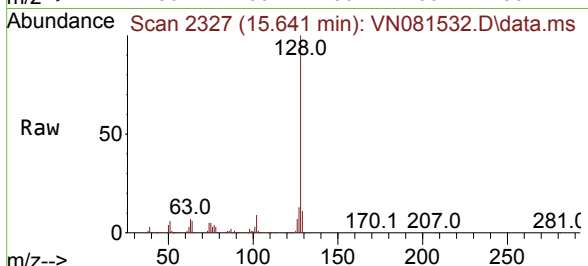
Tgt Ion:105 Resp: 53329
Ion Ratio Lower Upper
105 100
134 0.0 8.6 25.8#





#95
 Naphthalene
 Concen: 38.253 ug/l
 RT: 15.641 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN081532.D
 Acq: 21 Mar 2024 20:10

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 762138

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.0	15.0
129	10.4	8.7	13.1

