

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032124\
 Data File : VN081516.D
 Acq On : 21 Mar 2024 13:50
 Operator : JC\MD
 Sample : P1799-04DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 22 05:05:50 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)

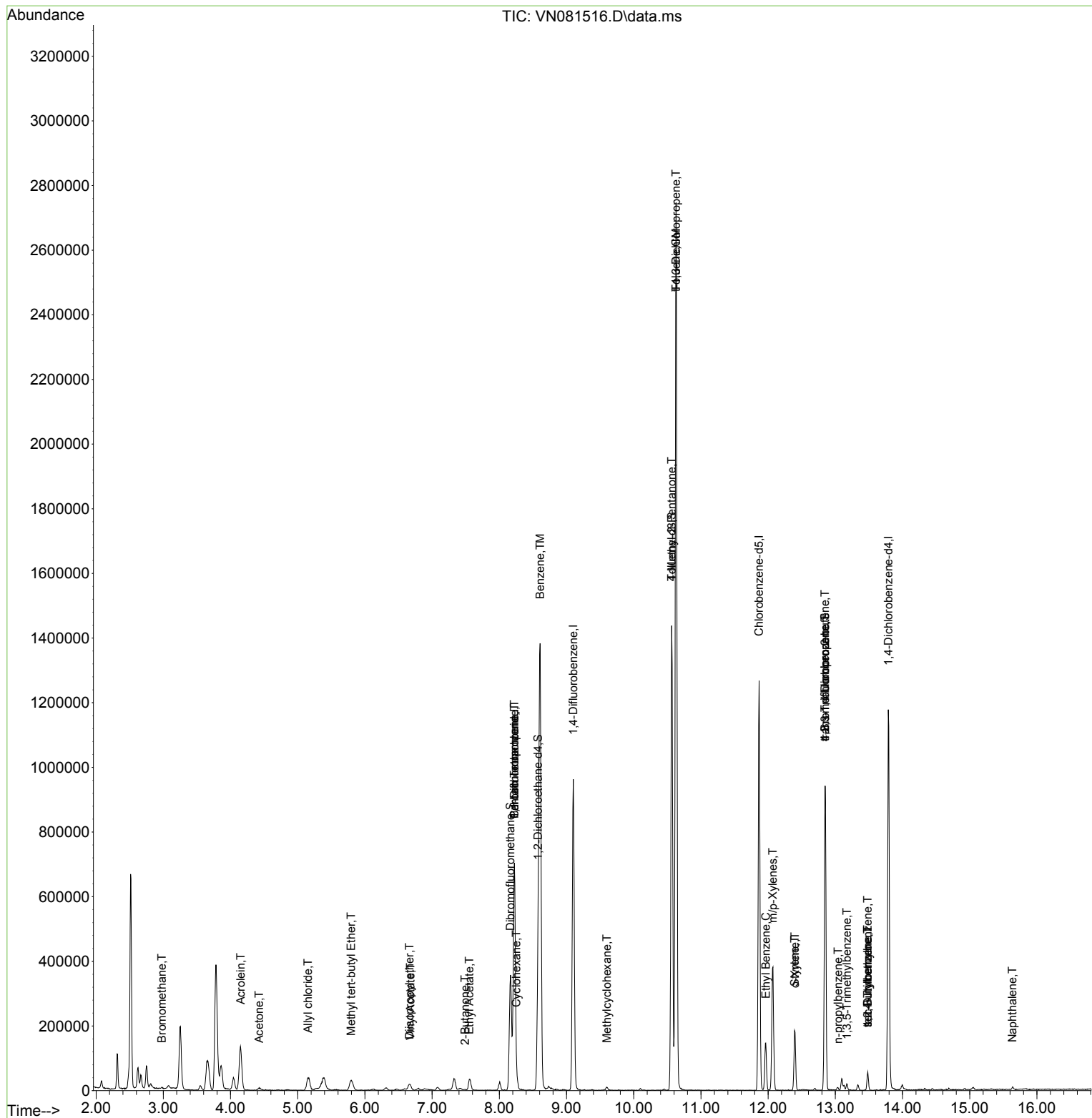
Internal Standards						
1) Pentafluorobenzene	8.224	168	502802	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	856586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	742258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	314729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	301060	46.952	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.900%		
35) Dibromofluoromethane	8.165	113	258387	47.797	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.600%		
50) Toluene-d8	10.565	98	1000408	51.193	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.380%		
62) 4-Bromofluorobenzene	12.847	95	328805	47.751	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	95.500%		
Target Compounds						Qvalue
5) Bromomethane	2.977	94	2040	0.381	ug/l	83
13) Acrolein	4.153	56	7279	7.260	ug/l #	1
14) Allyl chloride	5.153	41	4737	0.637	ug/l #	11
16) Acetone	4.424	43	8447	4.076	ug/l	93
19) Methyl tert-butyl Ether	5.795	73	44101	2.375	ug/l #	75
22) Diisopropyl ether	6.665	45	15725	0.910	ug/l #	91
23) Vinyl Acetate	6.677	43	10006	0.728	ug/l #	75
25) 2-Butanone	7.489	43	3465	0.975	ug/l	91
31) Cyclohexane	8.253	56	27736	2.658	ug/l #	74
36) 1,1-Dichloropropene	8.224	75	40786	4.483	ug/l #	52
37) Ethyl Acetate	7.553	43	51490	6.610	ug/l #	90
38) Carbon Tetrachloride	8.224	117	52119	5.230	ug/l #	19
39) Methylcyclohexane	9.600	83	4428	0.436	ug/l #	83
40) Benzene	8.606	78	1378951	51.845	ug/l	96
51) 4-Methyl-2-Pentanone	10.565	43	4697	0.596	ug/l #	1
52) Toluene	10.630	92	1201493	71.073	ug/l	100
53) t-1,3-Dichloropropene	10.630	75	14182	1.372	ug/l #	1
67) Ethyl Benzene	11.965	91	112538	3.692	ug/l	99
68) m/p-Xylenes	12.071	106	129627	11.344	ug/l	89
69) o-Xylene	12.400	106	54523	4.860	ug/l	90
70) Styrene	12.394	104	3885	0.215	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	171862	22.828	ug/l #	1
78) n-propylbenzene	13.041	91	7480	0.236	ug/l	91
80) 1,3,5-Trimethylbenzene	13.171	105	9354	0.422	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.847	75	171862	61.689	ug/l #	14
83) tert-Butylbenzene	13.482	119	4545	0.238	ug/l #	85
84) 1,2,4-Trimethylbenzene	13.482	105	30191	1.356	ug/l	94
85) sec-Butylbenzene	13.482	105	30191	1.105	ug/l #	60
95) Naphthalene	15.635	128	7286	0.332	ug/l	97

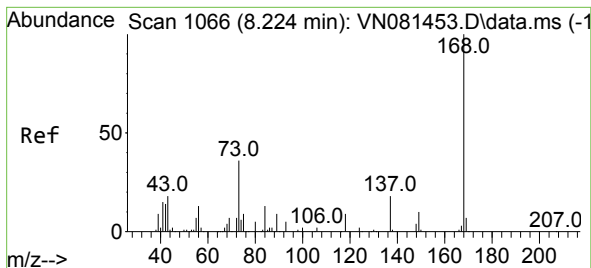
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

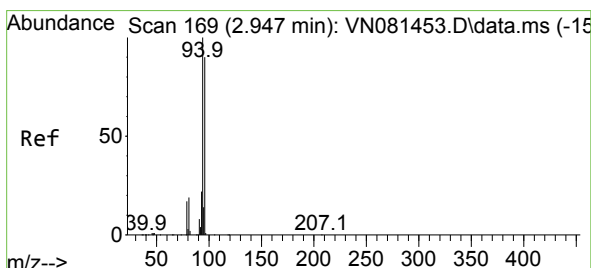
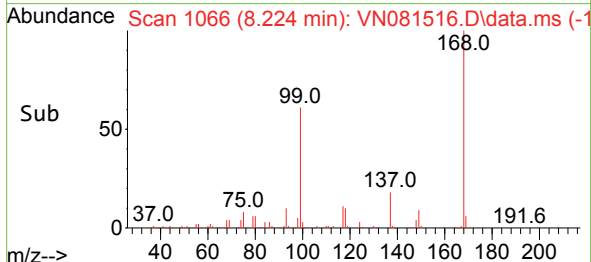
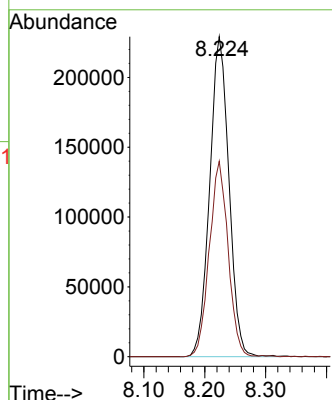
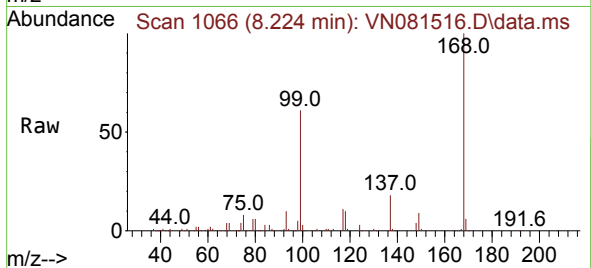
ClientSampleId :

Tgt Ion:168 Resp: 502802

Ion Ratio Lower Upper

168 100

99 61.1 59.9 89.9



#5

Bromomethane

Concen: 0.381 ug/l

RT: 2.977 min Scan# 174

Delta R.T. 0.030 min

Lab File: VN081516.D

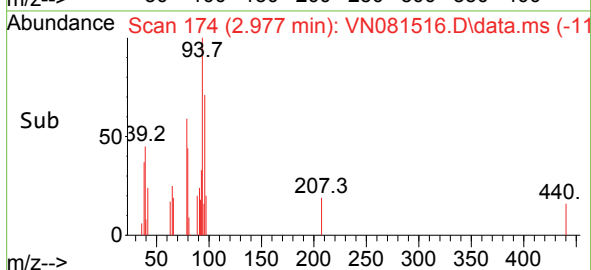
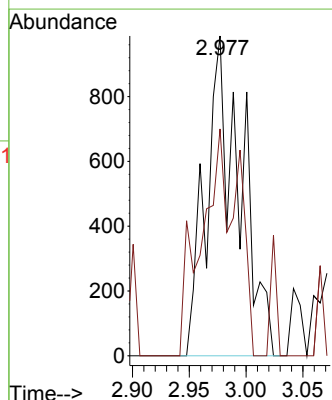
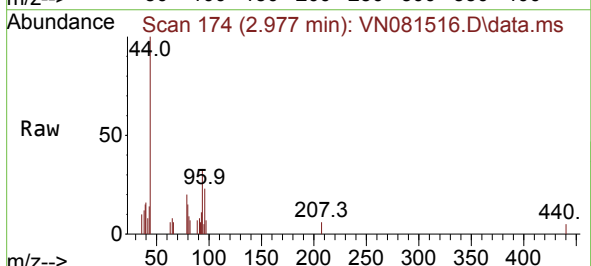
Acq: 21 Mar 2024 13:50

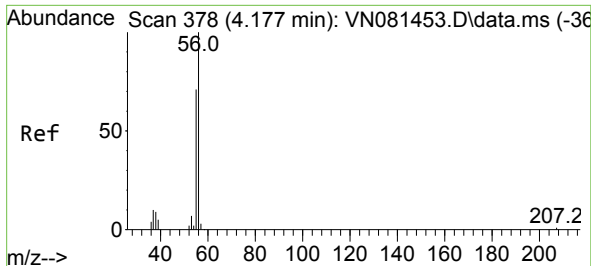
Tgt Ion: 94 Resp: 2040

Ion Ratio Lower Upper

94 100

96 70.9 69.2 103.8

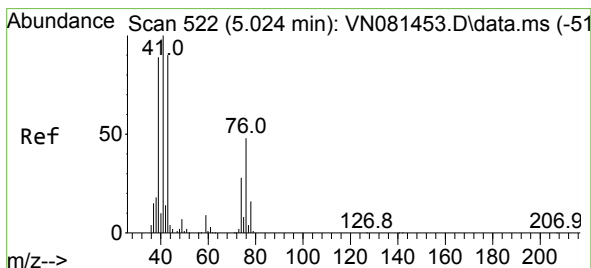
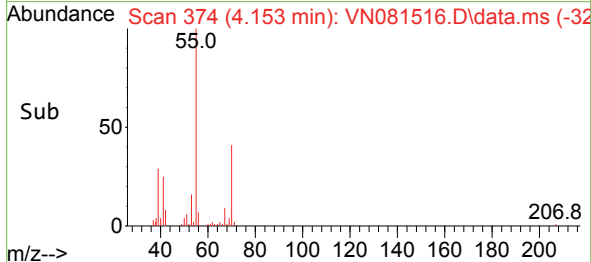
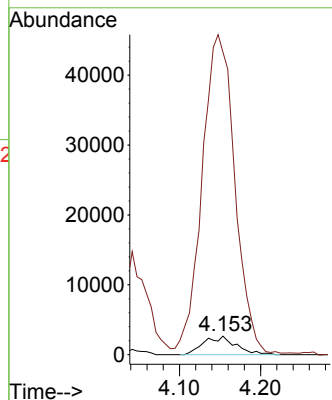
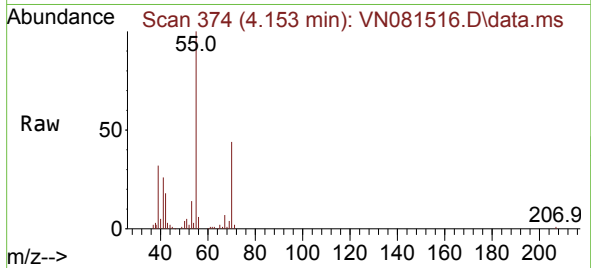




#13
Acrolein
Concen: 7.260 ug/l
RT: 4.153 min Scan# 31
Delta R.T. -0.023 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

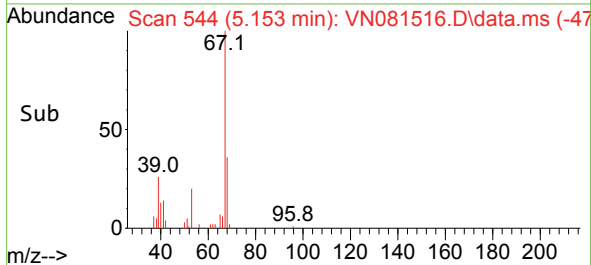
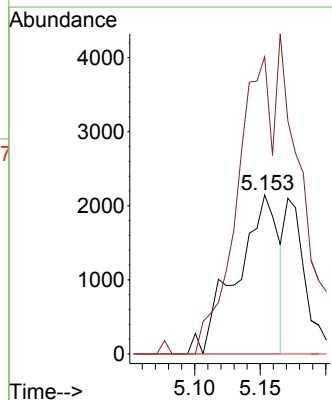
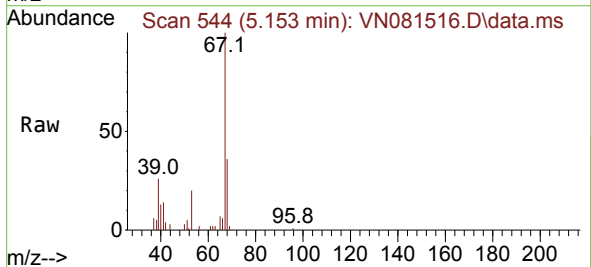
Instrument :
MSVOA_N
ClientSampleId :

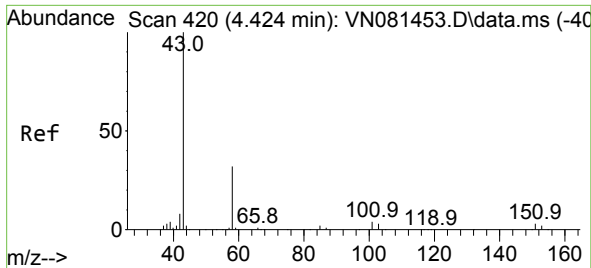
Tgt Ion: 56 Resp: 7279
Ion Ratio Lower Upper
56 100
55 1754.9 55.3 82.9#



#14
Allyl chloride
Concen: 0.637 ug/l
RT: 5.153 min Scan# 544
Delta R.T. 0.130 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion: 41 Resp: 4737
Ion Ratio Lower Upper
41 100
39 158.5 57.7 86.5#
76 0.0 26.8 40.2#

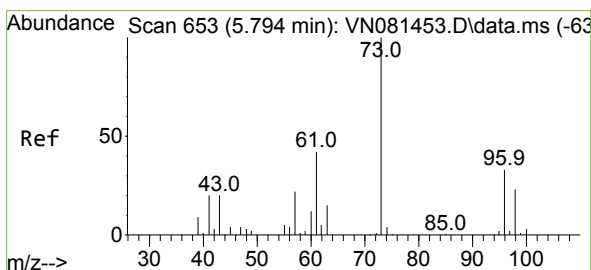
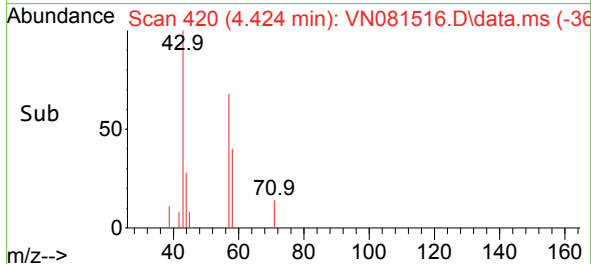
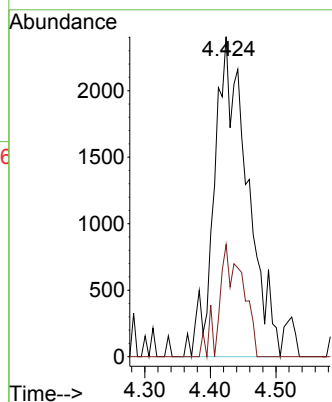
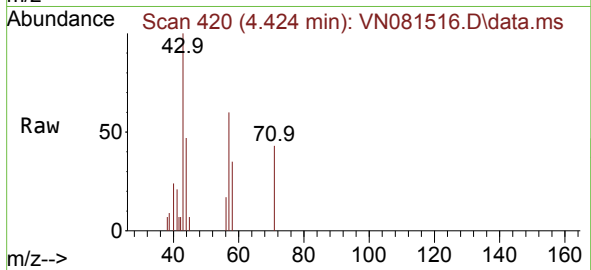




#16
Acetone
Concen: 4.076 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

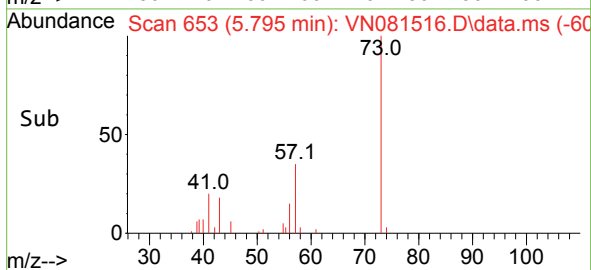
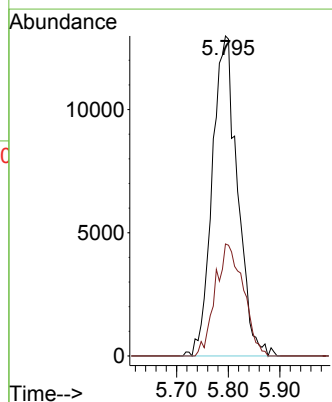
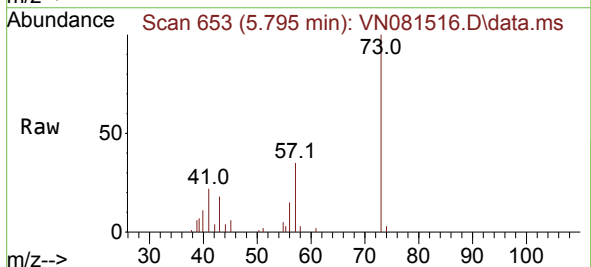
Instrument :
MSVOA_N
ClientSampleId :

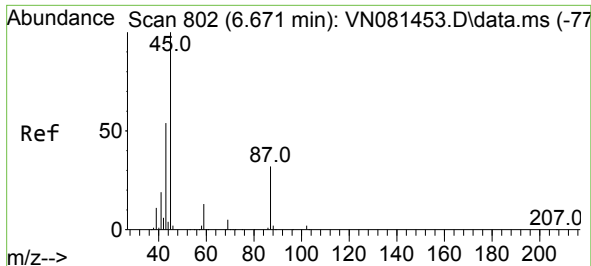
Tgt Ion: 43 Resp: 8447
Ion Ratio Lower Upper
43 100
58 35.1 24.8 37.2



#19
Methyl tert-butyl Ether
Concen: 2.375 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

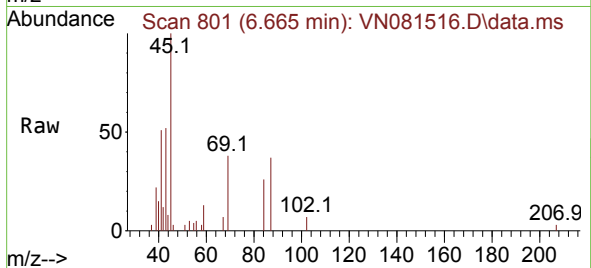
Tgt Ion: 73 Resp: 44101
Ion Ratio Lower Upper
73 100
57 35.0 18.2 27.4#



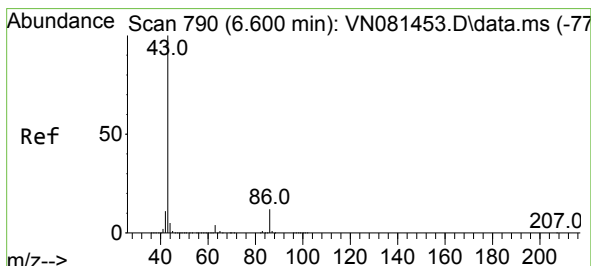
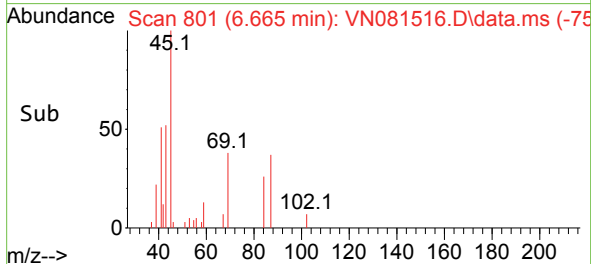
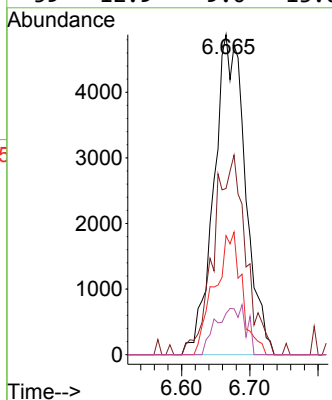


#22
Diisopropyl ether
Concen: 0.910 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Instrument :
MSVOA_N
ClientSampleId :

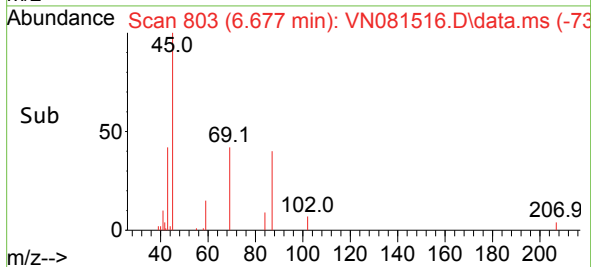
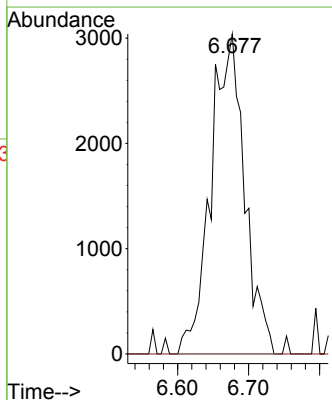
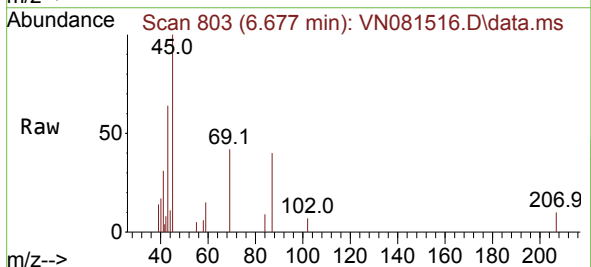


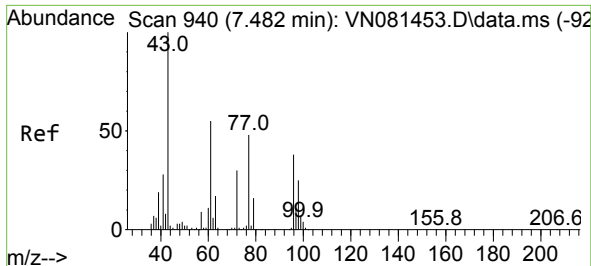
Tgt Ion: 45	Resp: 15725
Ion Ratio	Lower Upper
45 100	
43 52.0	41.8 62.8
87 37.2	18.1 27.1#
59 12.9	9.0 13.6



#23
Vinyl Acetate
Concen: 0.728 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.077 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

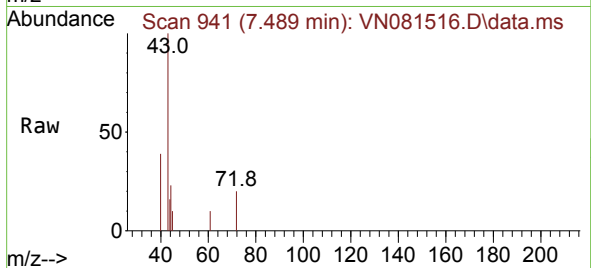
Tgt Ion: 43	Resp: 10006
Ion Ratio	Lower Upper
43 100	
86 0.0	7.1 10.7#



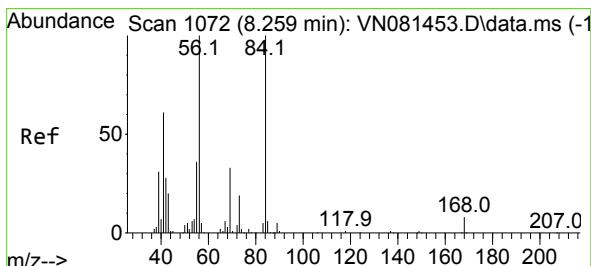
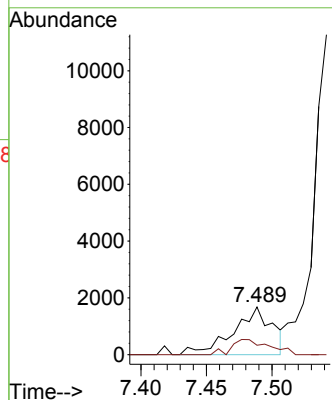
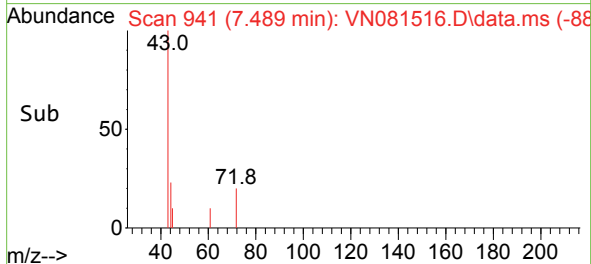


#25
2-Butanone
Concen: 0.975 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Instrument :
MSVOA_N
ClientSampleId :

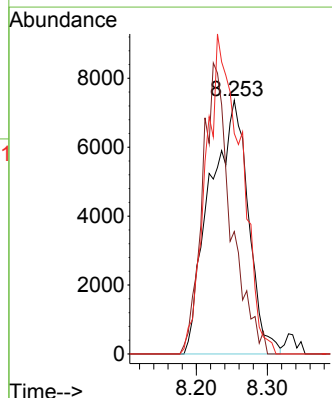
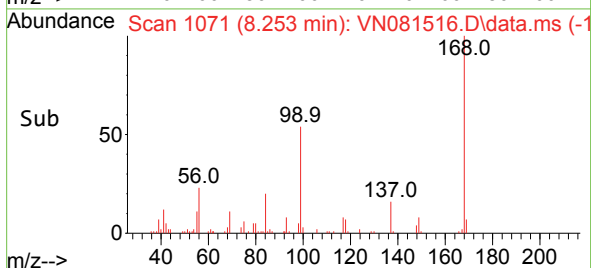
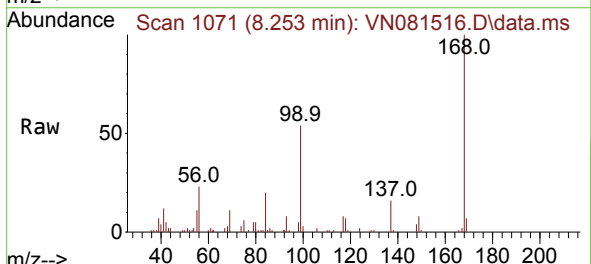


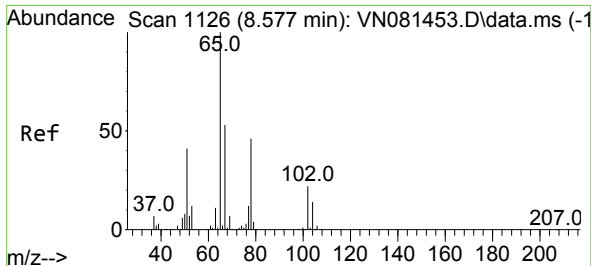
Tgt Ion: 43 Resp: 3465
Ion Ratio Lower Upper
43 100
72 19.9 19.5 29.3



#31
Cyclohexane
Concen: 2.658 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.006 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion: 56 Resp: 27736
Ion Ratio Lower Upper
56 100
69 48.3 20.1 30.1#
84 87.0 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 46.952 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

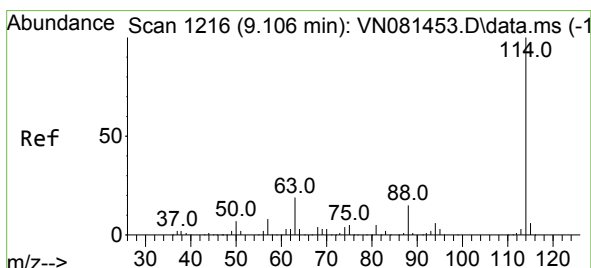
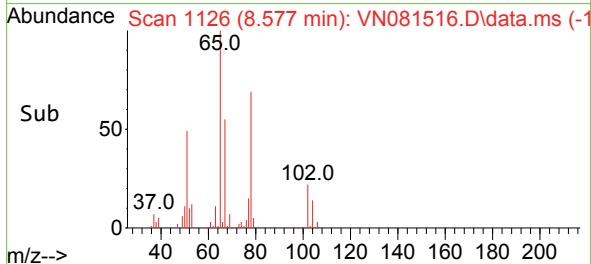
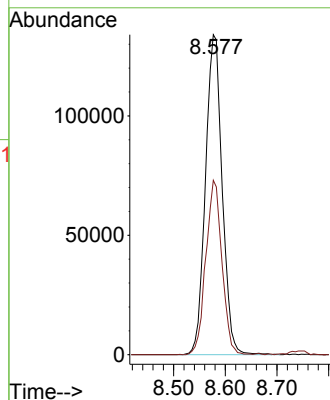
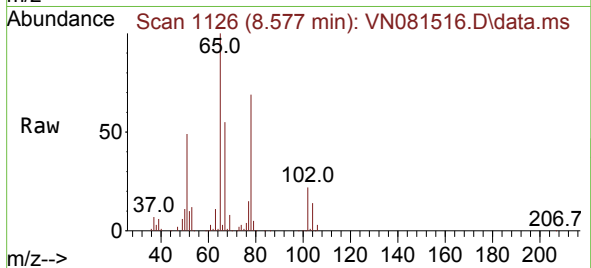
ClientSampleId :

Tgt Ion: 65 Resp: 301060

Ion Ratio Lower Upper

65 100

67 52.6 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: VN081516.D

Acq: 21 Mar 2024 13:50

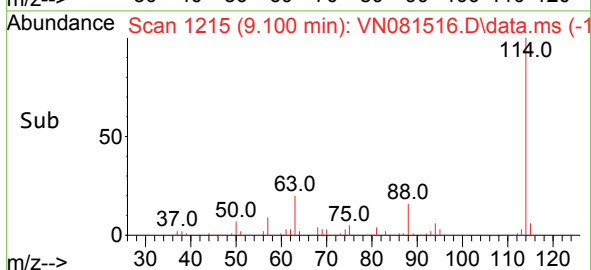
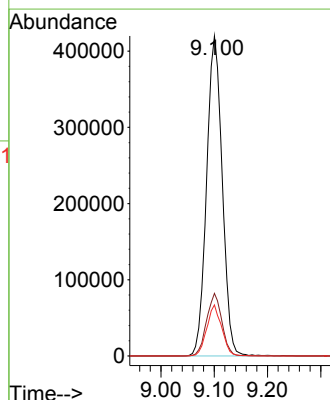
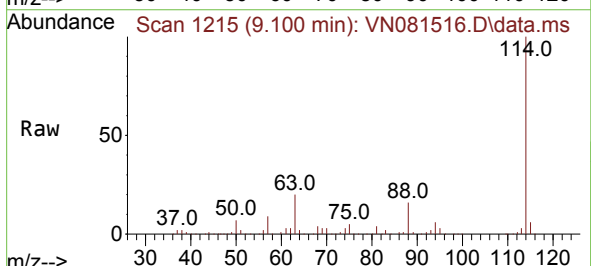
Tgt Ion: 114 Resp: 856586

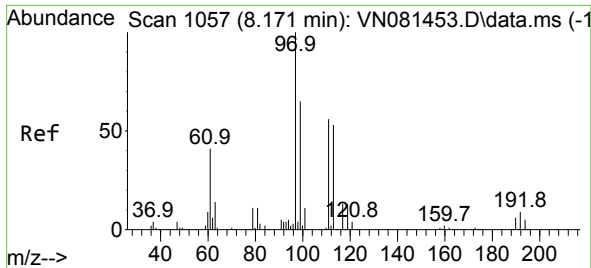
Ion Ratio Lower Upper

114 100

63 19.5 0.0 48.0

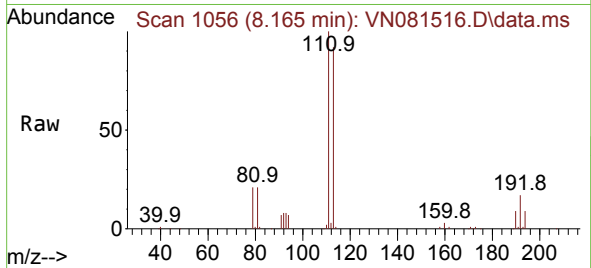
88 16.0 0.0 34.8



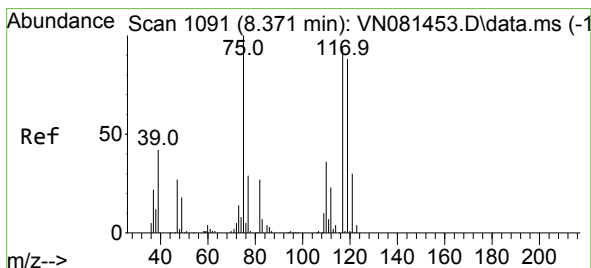
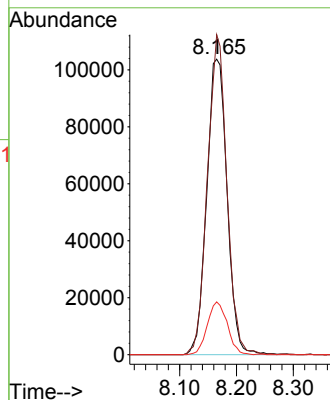
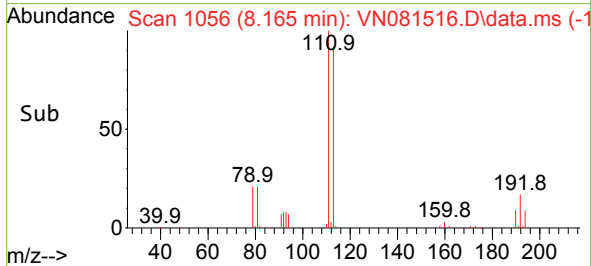


#35
 Dibromofluoromethane
 Concen: 47.797 ug/l
 RT: 8.165 min Scan# 1056
 Delta R.T. -0.006 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

Instrument :
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 ClientSampleId :

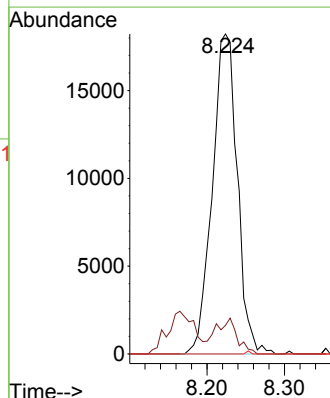
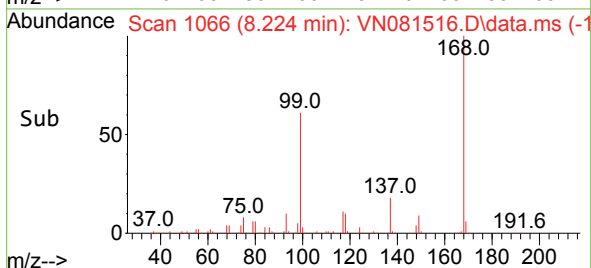
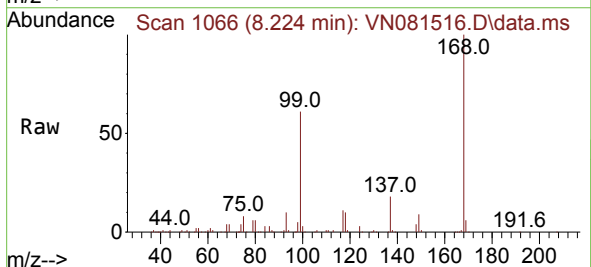


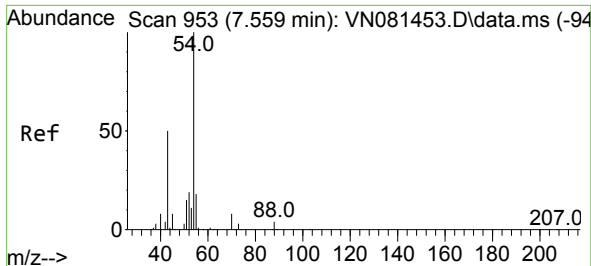
Tgt Ion:113 Resp: 258387
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.2 123.4
 192 17.5 12.5 18.7



#36
 1,1-Dichloropropene
 Concen: 4.483 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

Tgt Ion: 75 Resp: 40786
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.0 48.0#
 77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 6.610 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

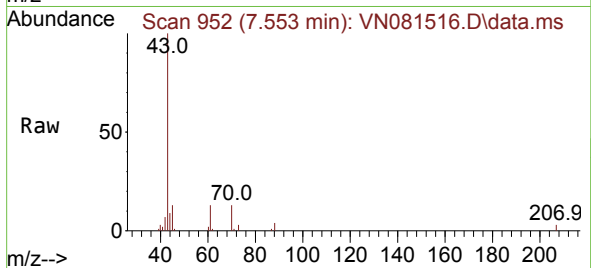
Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

ClientSampleId :



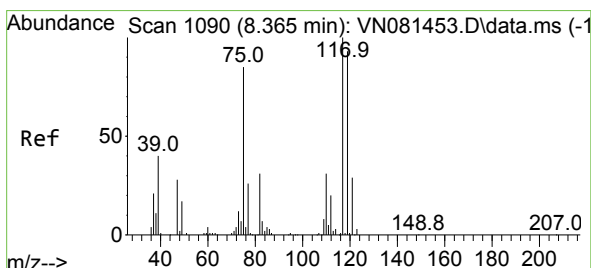
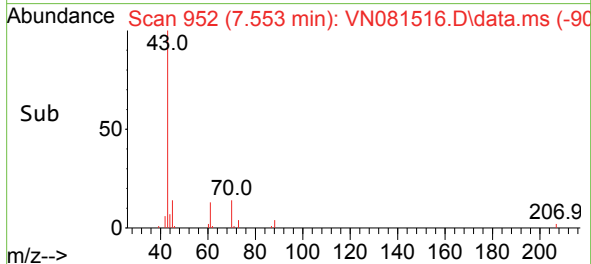
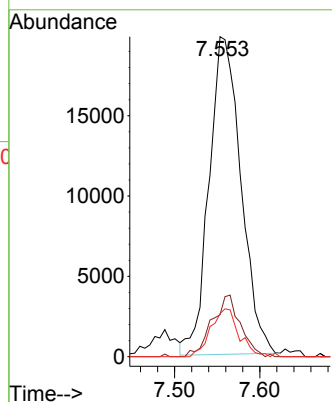
Tgt Ion: 43 Resp: 51490

Ion Ratio Lower Upper

43 100

61 17.2 10.6 15.8#

70 13.3 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 5.230 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

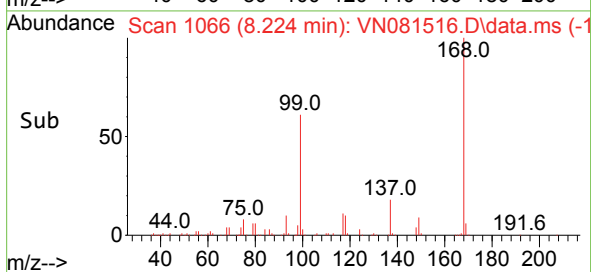
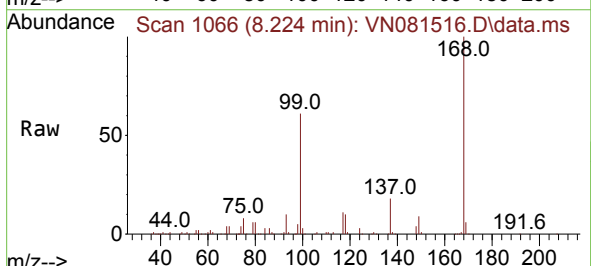
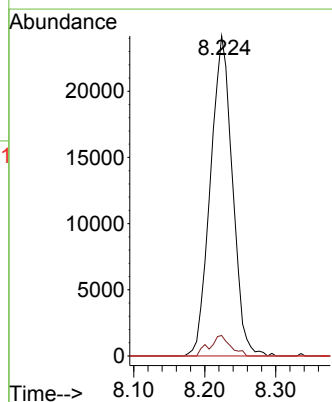
Tgt Ion: 117 Resp: 52119

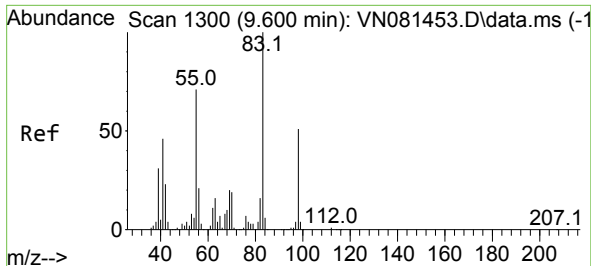
Ion Ratio Lower Upper

117 100

119 6.4 73.4 110.2#

121 0.0 24.4 36.6#





#39

Methylcyclohexane

Concen: 0.436 ug/l

RT: 9.600 min Scan# 11300

Delta R.T. 0.000 min

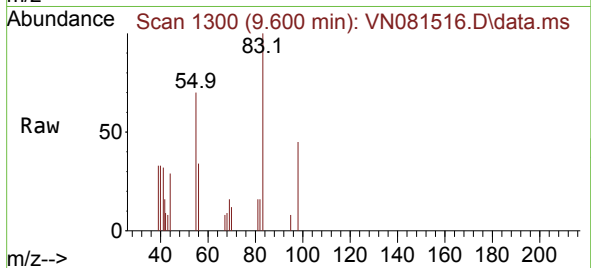
Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

ClientSampleId :



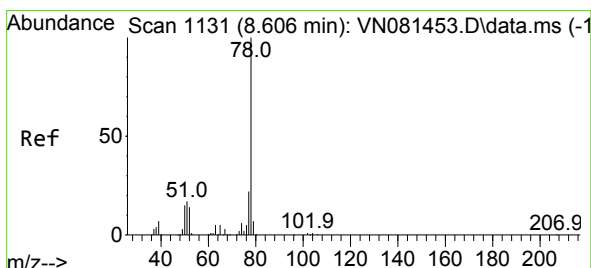
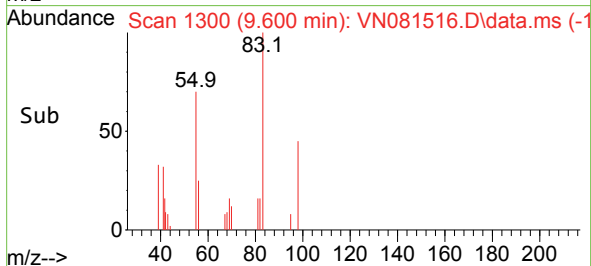
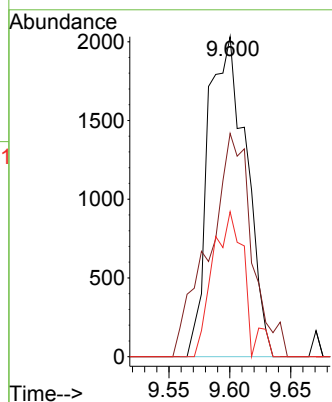
Tgt Ion: 83 Resp: 4428

Ion Ratio Lower Upper

83 100

55 60.8 65.7 98.5#

98 45.3 33.8 50.6



#40

Benzene

Concen: 51.845 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081516.D

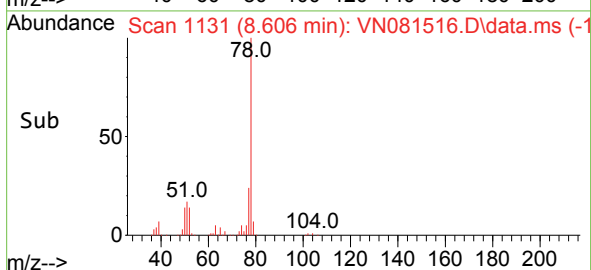
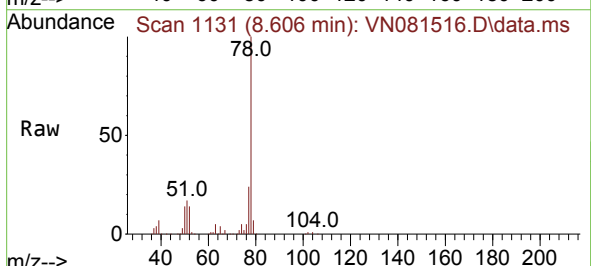
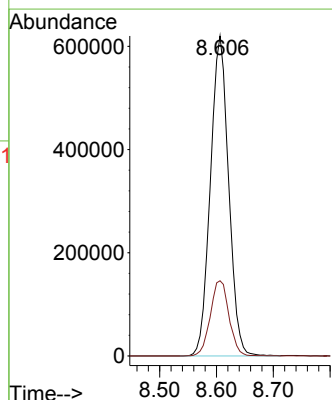
Acq: 21 Mar 2024 13:50

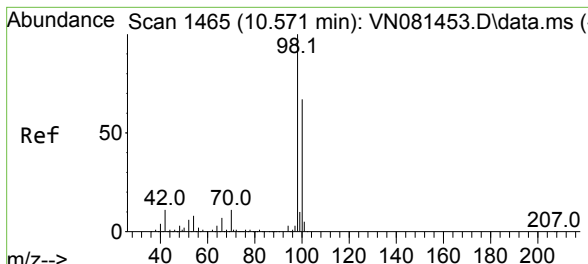
Tgt Ion: 78 Resp: 1378951

Ion Ratio Lower Upper

78 100

77 23.5 20.4 30.6

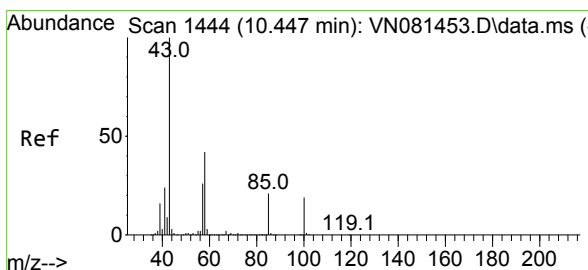
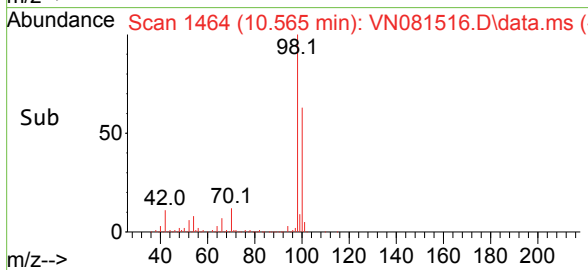
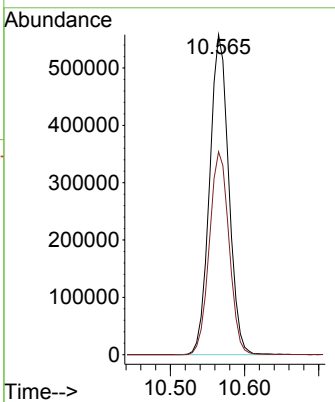
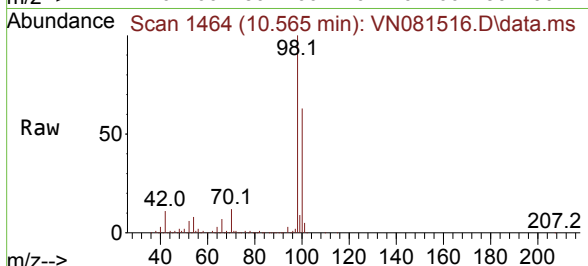




#50
Toluene-d8
Concen: 51.193 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

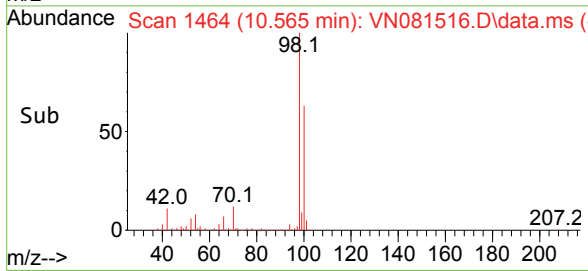
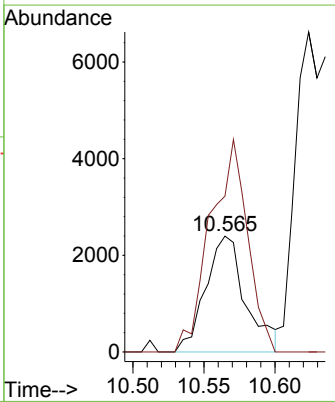
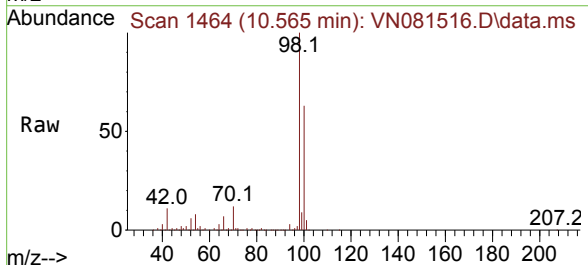
Instrument :
MSVOA_N
ClientSampleId :

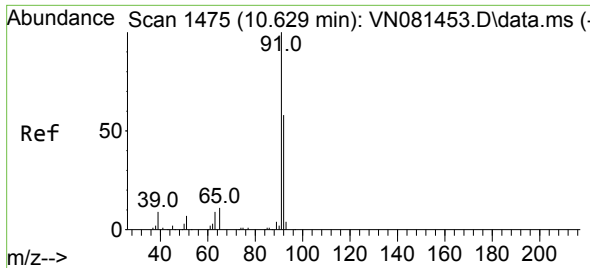
Tgt Ion: 98 Resp: 1000408
Ion Ratio Lower Upper
98 100
100 65.2 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.596 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion: 43 Resp: 4697
Ion Ratio Lower Upper
43 100
58 169.9 29.4 44.0#

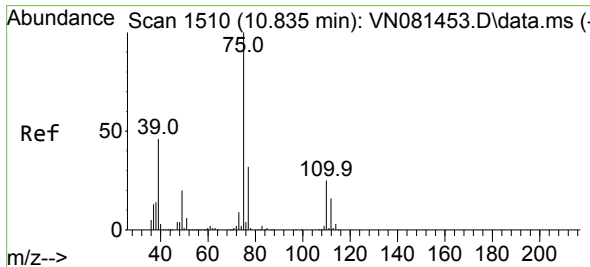
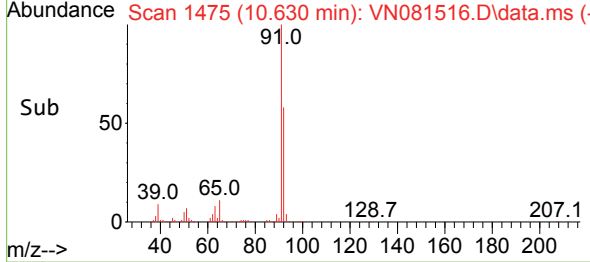
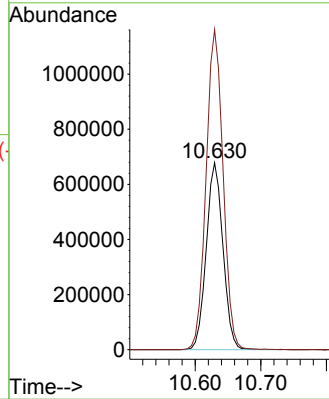
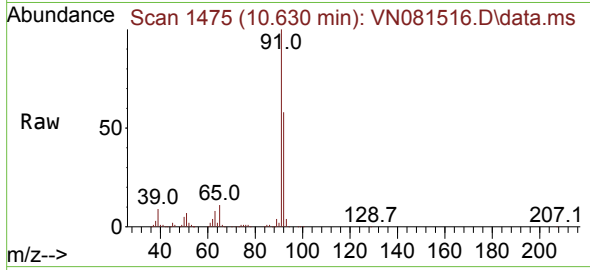




#52
Toluene
Concen: 71.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

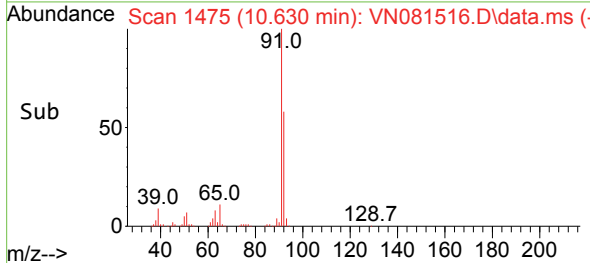
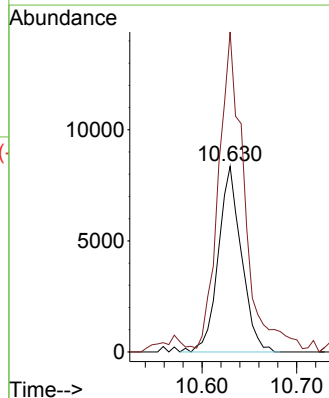
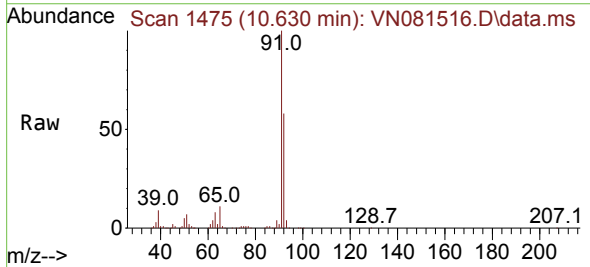
Instrument :
MSVOA_N
ClientSampleId :

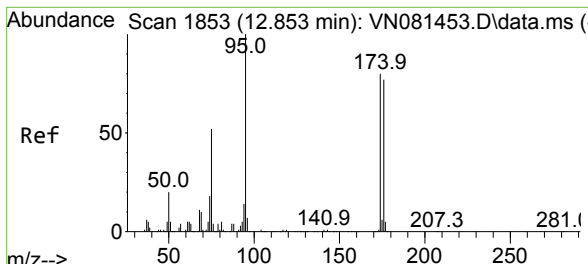
Tgt Ion: 92 Resp: 1201493
Ion Ratio Lower Upper
92 100
91 174.4 139.4 209.0



#53
t-1,3-Dichloropropene
Concen: 1.372 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion: 75 Resp: 14182
Ion Ratio Lower Upper
75 100
77 166.8 25.5 38.3#

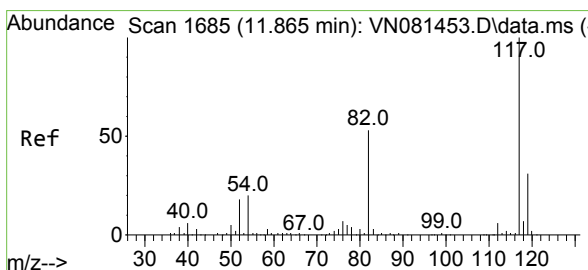
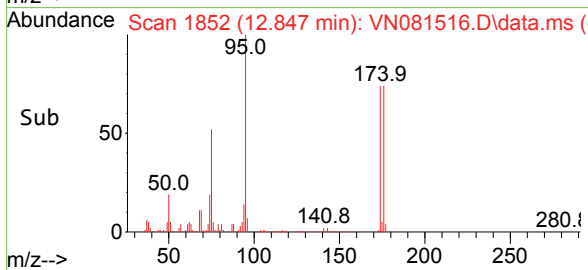
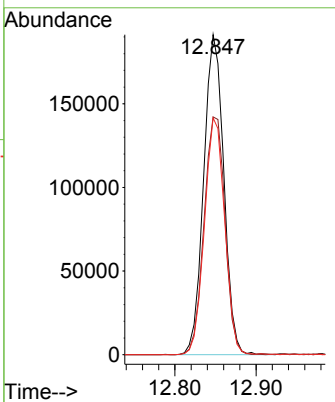
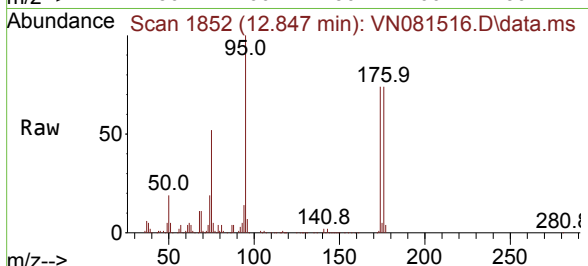




#62
 4-Bromofluorobenzene
 Concen: 47.751 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

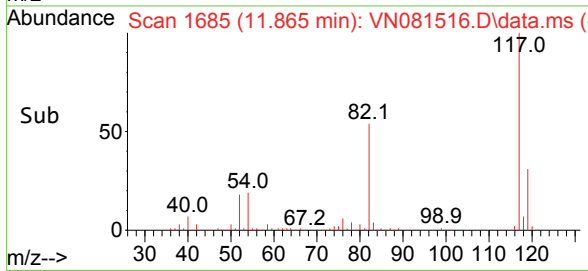
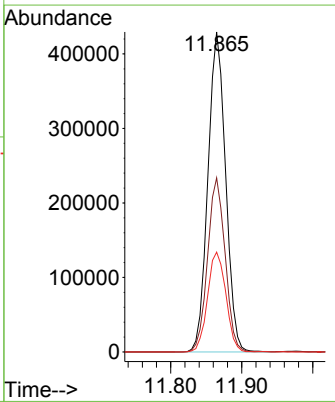
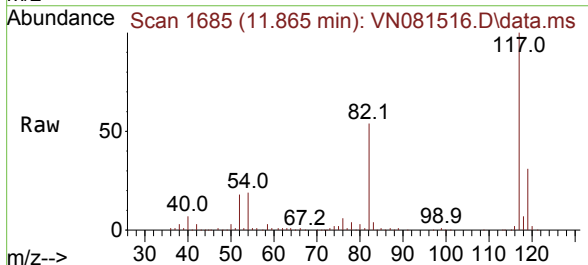
Instrument :
 MSVOA_N
 ClientSampleId :

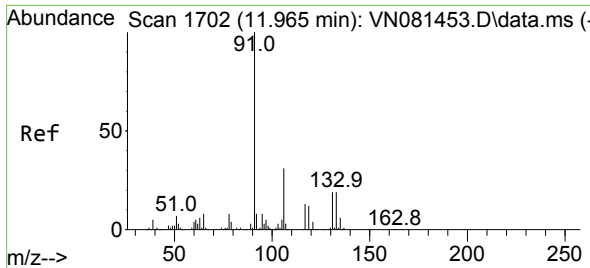
Tgt Ion:	95	Resp:	328805
Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	120.4
176	74.6	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

Tgt Ion:	117	Resp:	742258
Ion	Ratio	Lower	Upper
117	100		
82	54.4	52.7	79.1
119	31.2	25.3	37.9

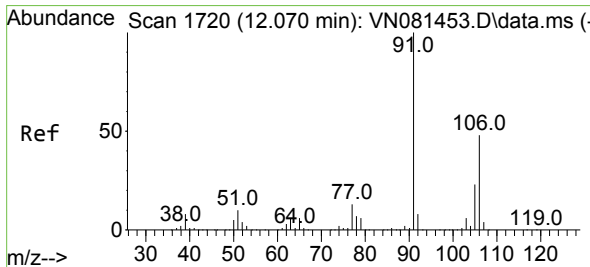
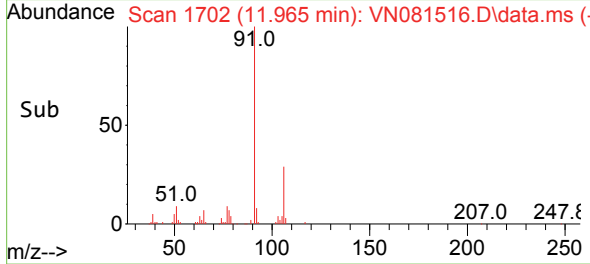
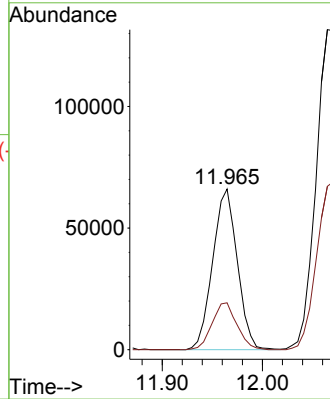
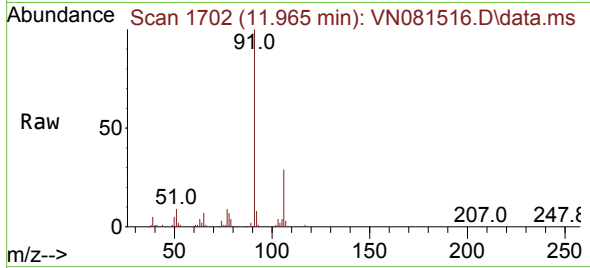




#67
Ethyl Benzene
Concen: 3.692 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

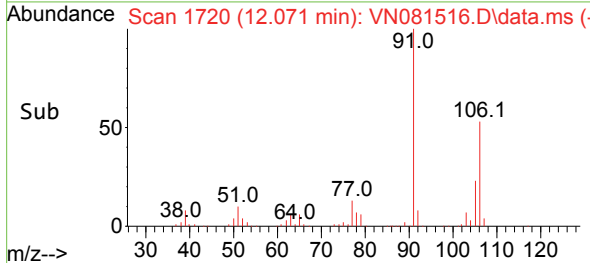
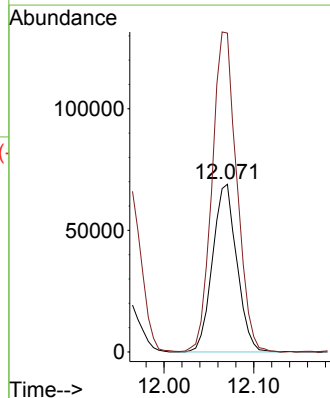
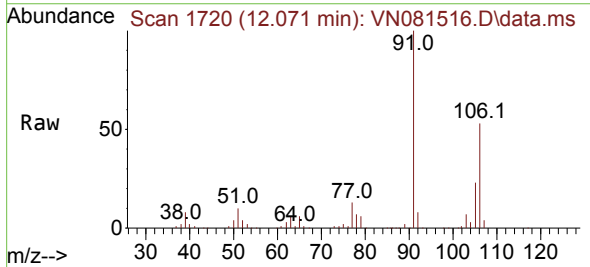
Instrument :
MSVOA_N
ClientSampleId :

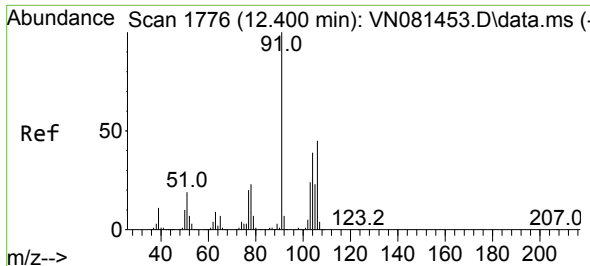
Tgt Ion: 91 Resp: 112538
Ion Ratio Lower Upper
91 100
106 29.2 23.8 35.6



#68
m/p-Xylenes
Concen: 11.344 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion:106 Resp: 129627
Ion Ratio Lower Upper
106 100
91 194.1 169.0 253.6

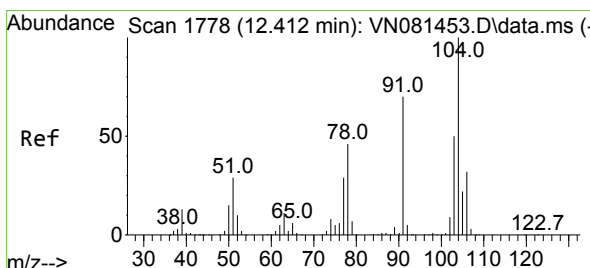
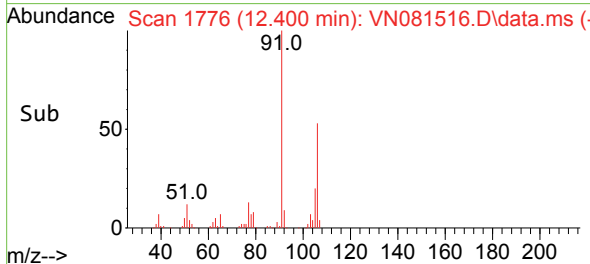
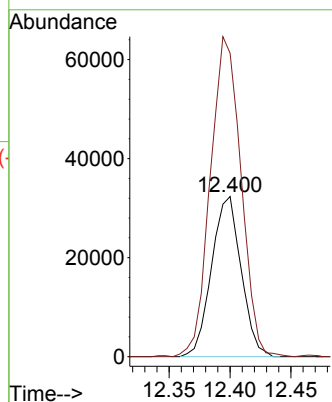
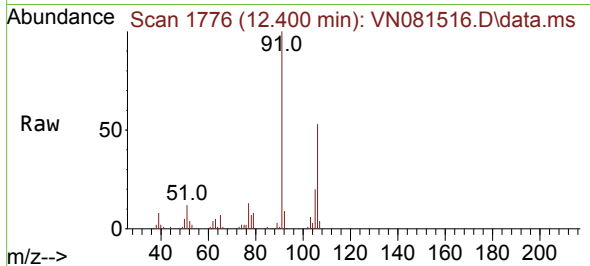




#69
o-Xylene
Concen: 4.860 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

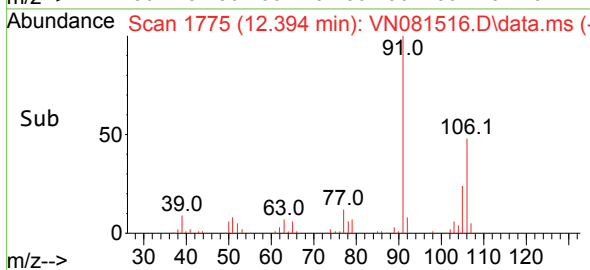
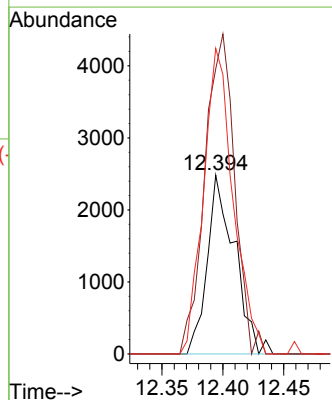
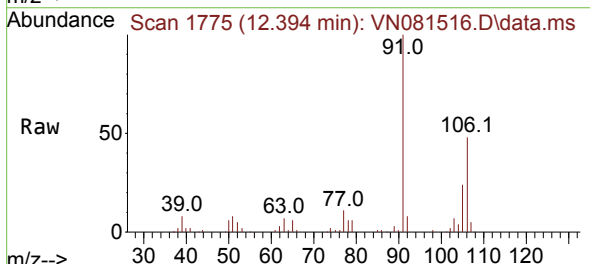
Instrument :
MSVOA_N
ClientSampleId :

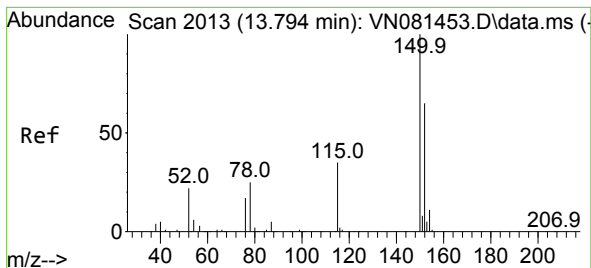
Tgt Ion:106 Resp: 54523
Ion Ratio Lower Upper
106 100
91 207.3 112.1 336.3



#70
Styrene
Concen: 0.215 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.017 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion:104 Resp: 3885
Ion Ratio Lower Upper
104 100
78 194.9 43.8 65.8#
103 185.8 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

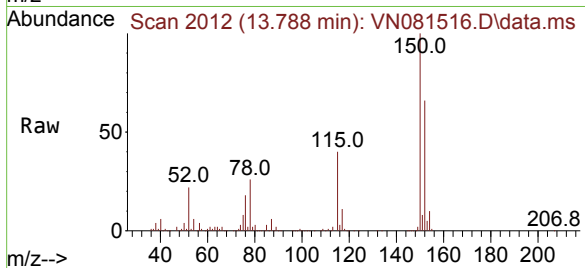
Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

ClientSampleId :



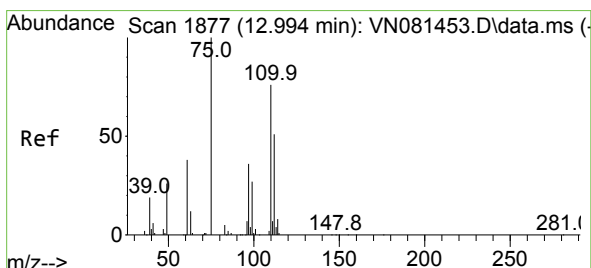
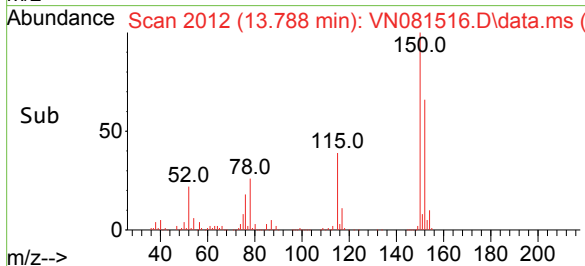
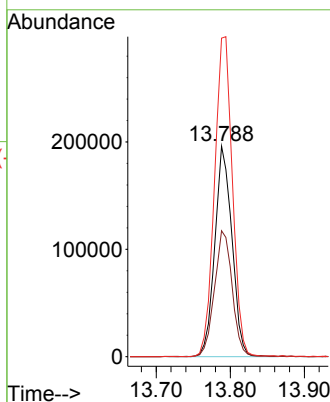
Tgt Ion:152 Resp: 314729

Ion Ratio Lower Upper

152 100

115 62.0 32.3 96.8

150 159.1 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 22.828 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081516.D

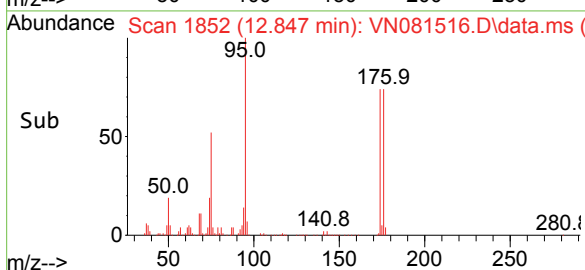
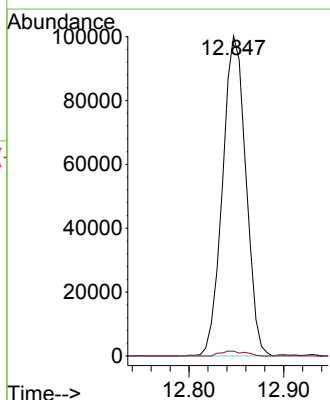
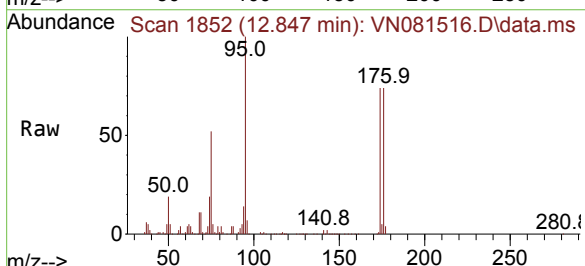
Acq: 21 Mar 2024 13:50

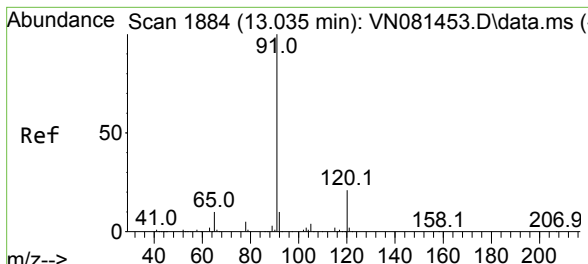
Tgt Ion: 75 Resp: 171862

Ion Ratio Lower Upper

75 100

77 1.6 91.0 272.8#

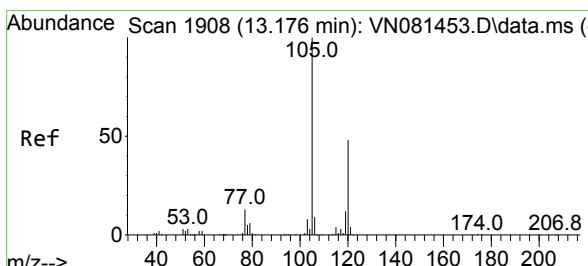
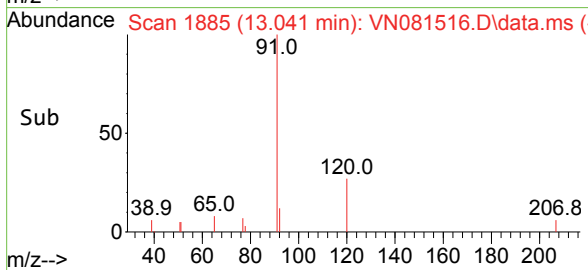
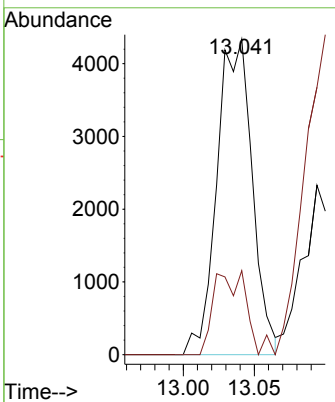
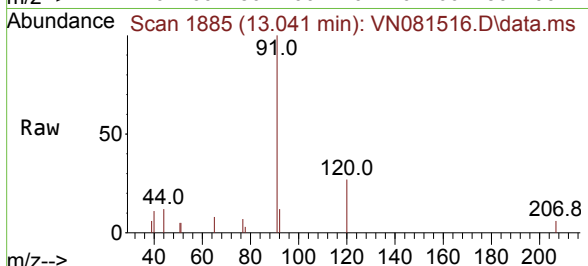




#78
 n-propylbenzene
 Concen: 0.236 ug/l
 RT: 13.041 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

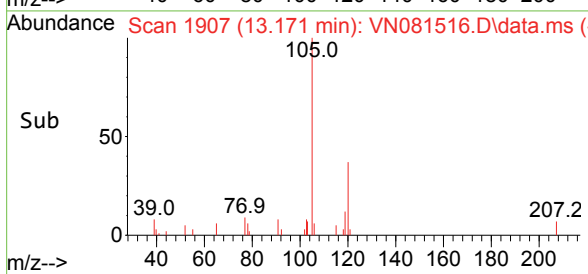
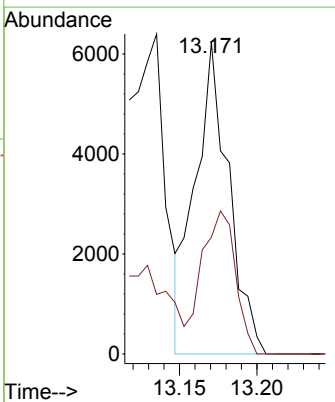
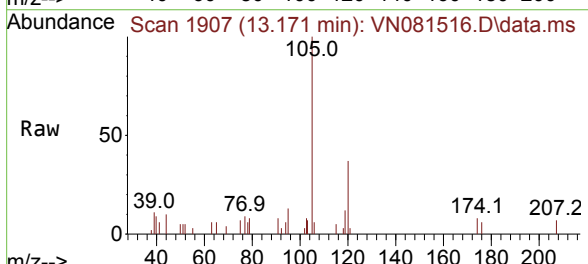
Instrument :
 MSVOA_N
 ClientSampleId :

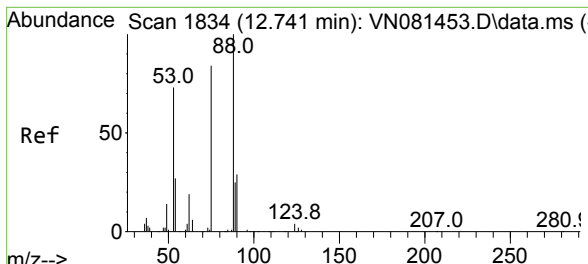
Tgt Ion:	91	Resp:	7480
Ion Ratio	Lower	Upper	
91	100		
120	24.6	10.3	30.9



#80
 1,3,5-Trimethylbenzene
 Concen: 0.422 ug/l
 RT: 13.171 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

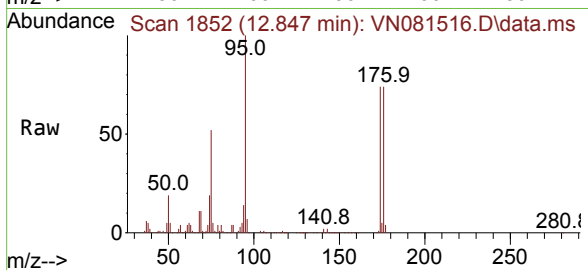
Tgt Ion:	105	Resp:	9354
Ion Ratio	Lower	Upper	
105	100		
120	46.1	23.0	69.0



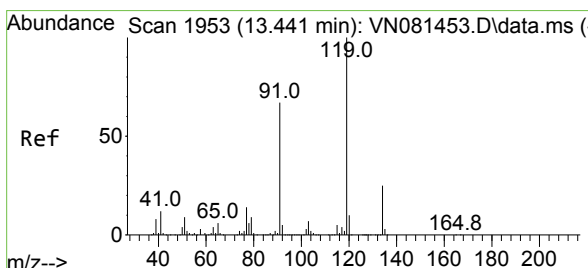
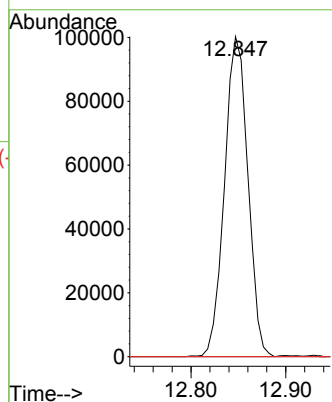
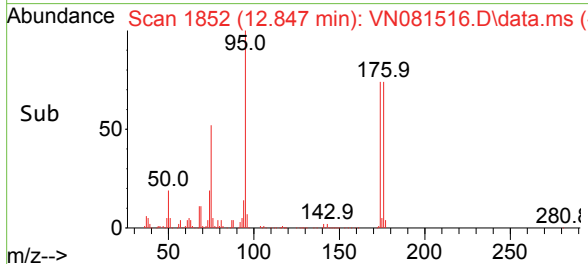


#81
trans-1,4-Dichloro-2-butene
Concen: 61.689 ug/l
RT: 12.847 min Scan# 171862
Delta R.T. 0.106 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Instrument :
MSVOA_N
ClientSampleId :

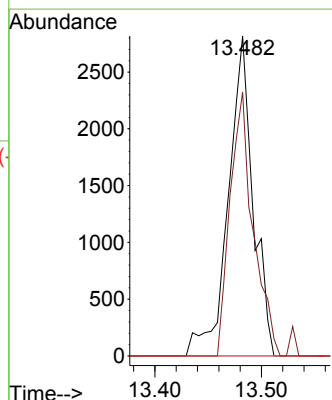
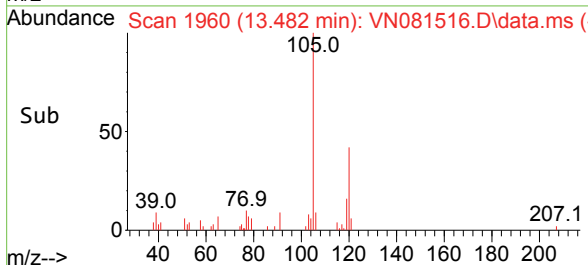
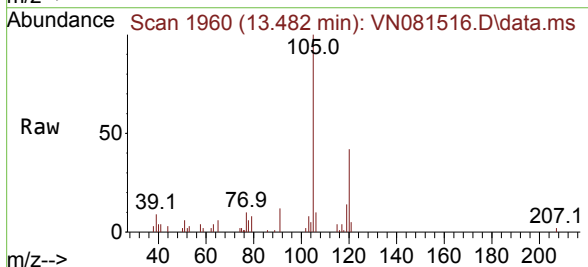


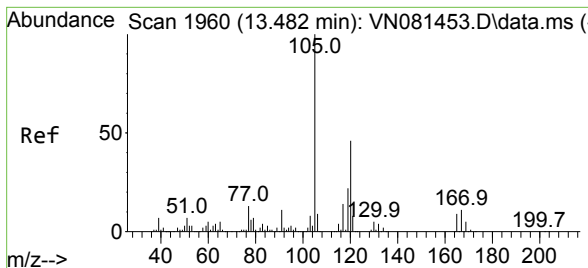
Tgt Ion: 75 Resp: 171862
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#



#83
tert-Butylbenzene
Concen: 0.238 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.041 min
Lab File: VN081516.D
Acq: 21 Mar 2024 13:50

Tgt Ion: 119 Resp: 4545
Ion Ratio Lower Upper
119 100
91 76.9 36.8 110.4
134 0.0 12.4 37.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.356 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN081516.D

Acq: 21 Mar 2024 13:50

Instrument :

MSVOA_N

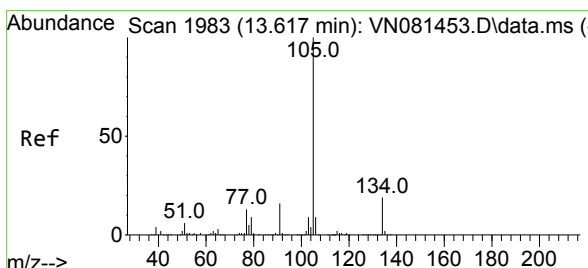
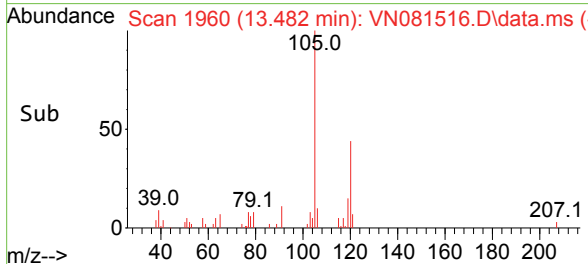
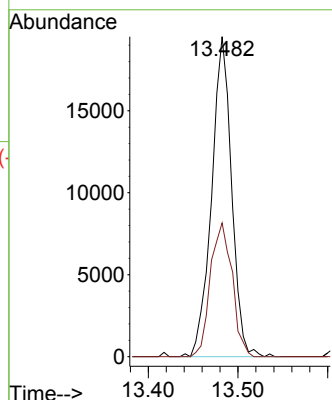
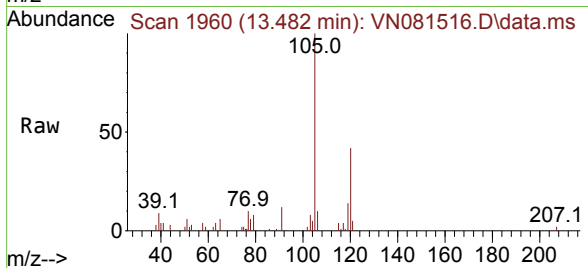
ClientSampleId :

Tgt Ion:105 Resp: 30191

Ion Ratio Lower Upper

105 100

120 45.3 20.9 62.7



#85

sec-Butylbenzene

Concen: 1.105 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.135 min

Lab File: VN081516.D

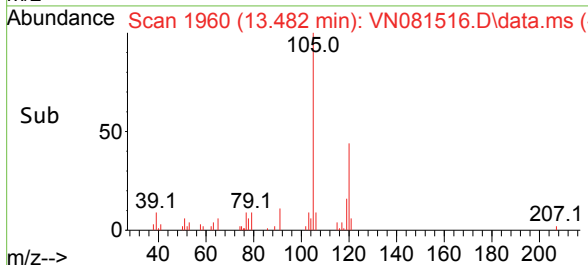
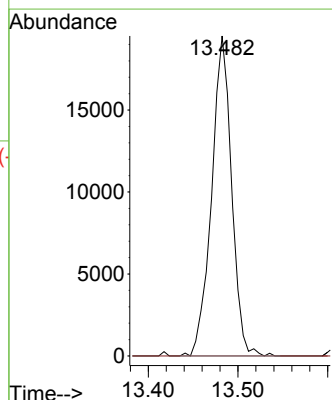
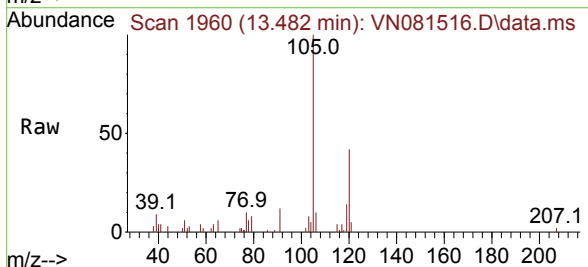
Acq: 21 Mar 2024 13:50

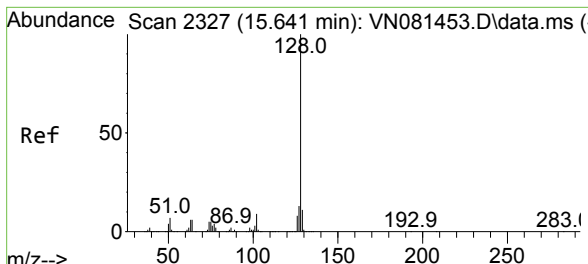
Tgt Ion:105 Resp: 30191

Ion Ratio Lower Upper

105 100

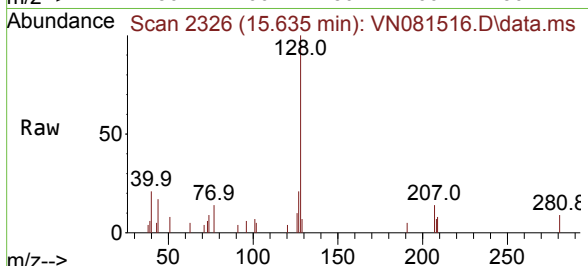
134 0.0 8.6 25.8#





#95
 Naphthalene
 Concen: 0.332 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN081516.D
 Acq: 21 Mar 2024 13:50

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	7286
Ion Ratio	100	Lower	Upper
128	100		
127	13.3	10.0	15.0
129	9.6	8.7	13.1

