

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032124\
 Data File : VN081519.D
 Acq On : 21 Mar 2024 15:01
 Operator : JC\MD
 Sample : P1798-02 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 22 05:07:07 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)

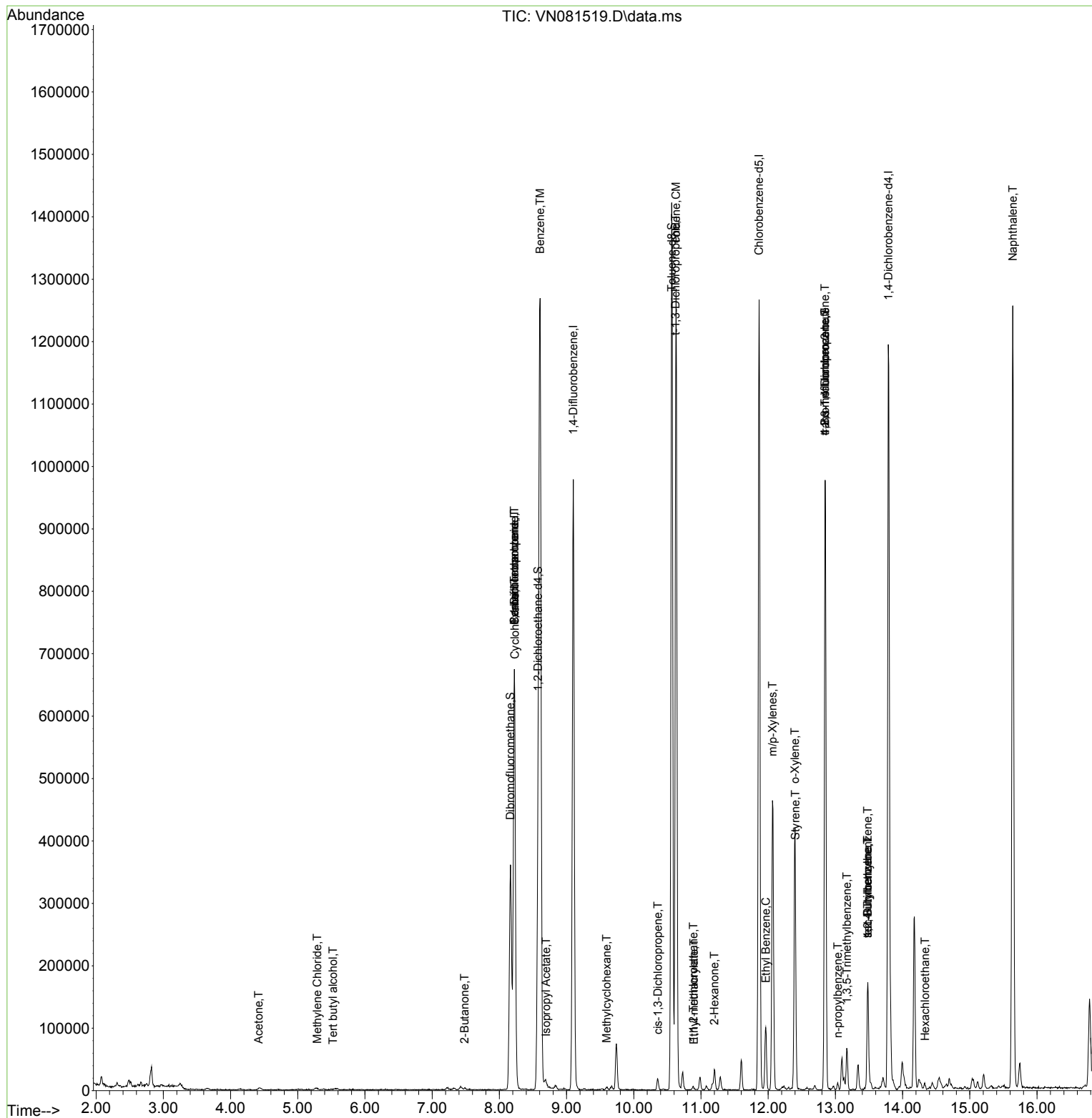
Internal Standards						
1) Pentafluorobenzene	8.224	168	491691	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	852890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	754507	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	336222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	301784	48.129	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.260%		
35) Dibromofluoromethane	8.165	113	258825	48.085	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	10.565	98	1001964	51.495	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.000%		
62) 4-Bromofluorobenzene	12.847	95	342045	49.889	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	99.780%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.524	59	431	0.394	ug/l	# 72
16) Acetone	4.418	43	7336	3.620	ug/l	# 71
20) Methylene Chloride	5.289	84	1378	0.208	ug/l	# 60
25) 2-Butanone	7.483	43	3656	1.052	ug/l	# 86
31) Cyclohexane	8.230	56	13576	1.331	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	40272	4.446	ug/l	# 49
38) Carbon Tetrachloride	8.224	117	53324	5.374	ug/l	# 18
39) Methylcyclohexane	9.594	83	2172	0.215	ug/l	# 85
40) Benzene	8.606	78	1287829	48.629	ug/l	98
43) Isopropyl Acetate	8.694	43	14424	1.122	ug/l	# 87
52) Toluene	10.629	92	570249	33.879	ug/l	99
53) t-1,3-Dichloropropene	10.624	75	6617	0.643	ug/l	# 1
54) cis-1,3-Dichloropropene	10.359	75	3919	0.355	ug/l	# 51
55) 1,1,2-Trichloroethane	10.888	97	4268	0.630	ug/l	# 13
56) Ethyl methacrylate	10.894	69	135	0.585	ug/l	# 20
59) 2-Hexanone	11.200	43	4972	0.857	ug/l	74
67) Ethyl Benzene	11.965	91	72395	2.337	ug/l	97
68) m/p-Xylenes	12.065	106	149030	12.831	ug/l	95
69) o-Xylene	12.400	106	111170	9.749	ug/l	96
70) Styrene	12.406	104	14918	0.811	ug/l	# 1
76) 1,2,3-Trichloropropane	12.847	75	175270	21.793	ug/l	# 1
78) n-propylbenzene	13.035	91	8873	0.262	ug/l	94
80) 1,3,5-Trimethylbenzene	13.170	105	34611	1.462	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	175270	58.891	ug/l	# 14
83) tert-Butylbenzene	13.482	119	12507	0.613	ug/l	# 78
84) 1,2,4-Trimethylbenzene	13.482	105	104395	4.388	ug/l	98
85) sec-Butylbenzene	13.482	105	104395	3.577	ug/l	# 60
90) Hexachloroethane	14.335	117	1053	0.233	ug/l	# 21
95) Naphthalene	15.641	128	1157683	49.354	ug/l	99

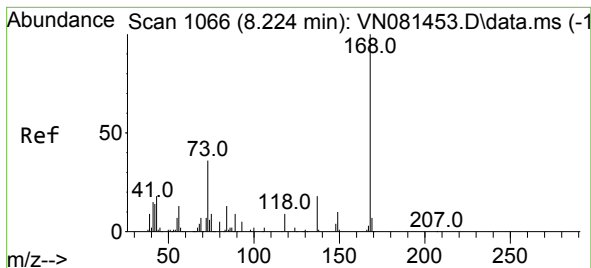
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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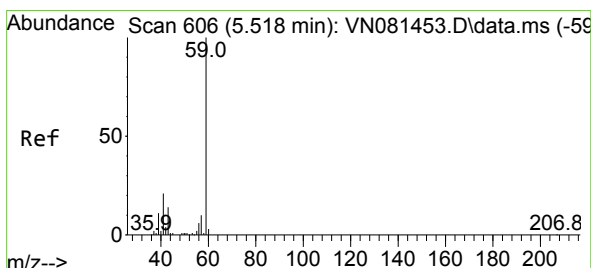
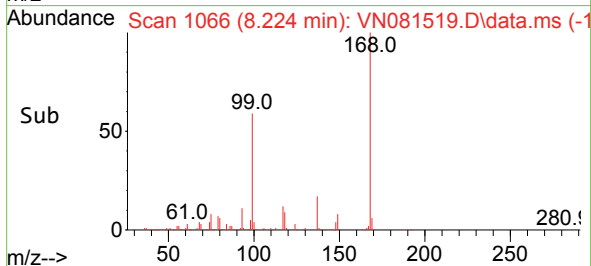
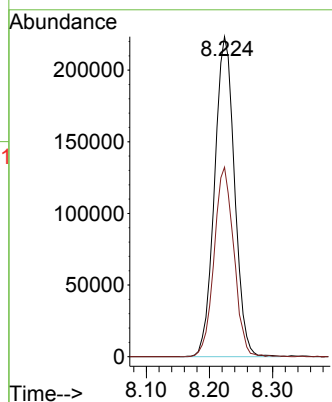
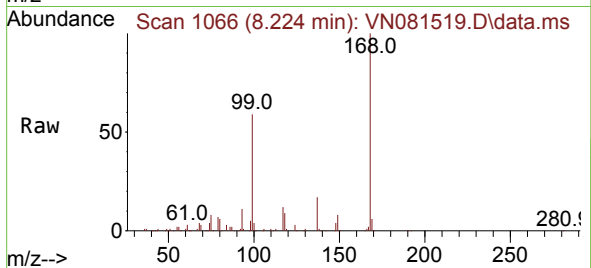




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

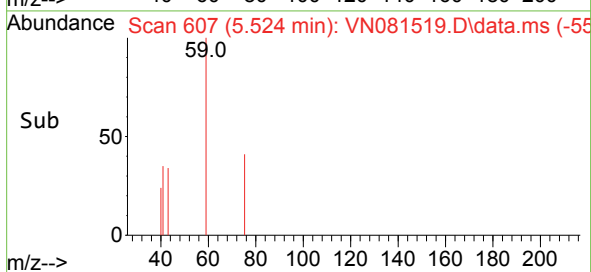
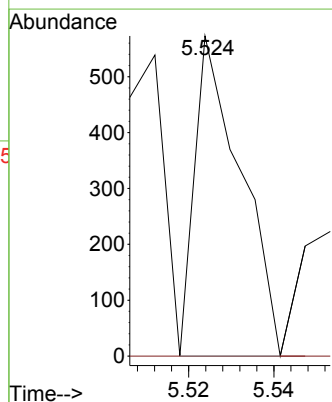
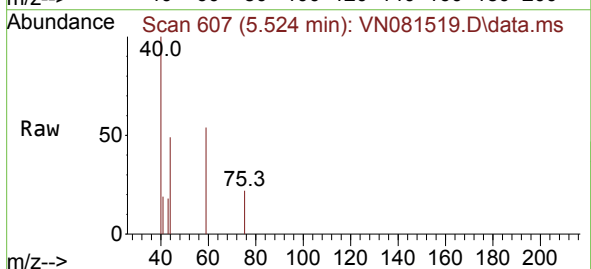
Instrument :
MSVOA_N
ClientSampleId :

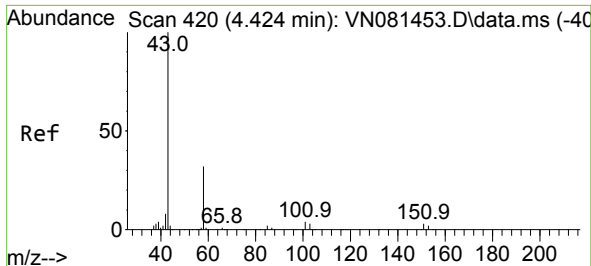
Tgt Ion:168 Resp: 491691
Ion Ratio Lower Upper
168 100
99 59.2 59.9 89.9#



#11
Tert butyl alcohol
Concen: 0.394 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion: 59 Resp: 431
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

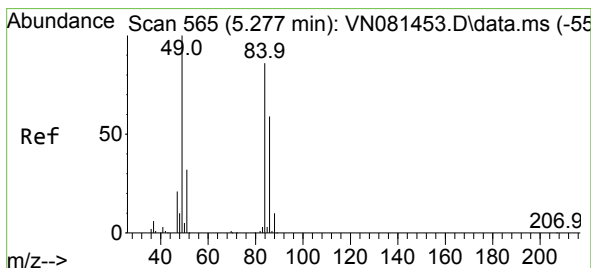
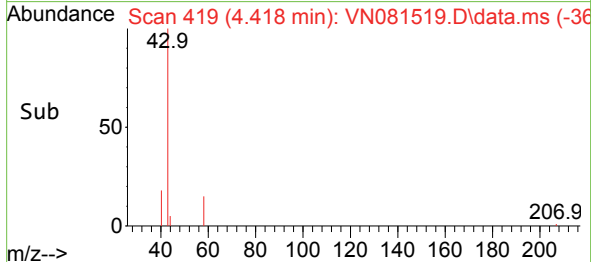
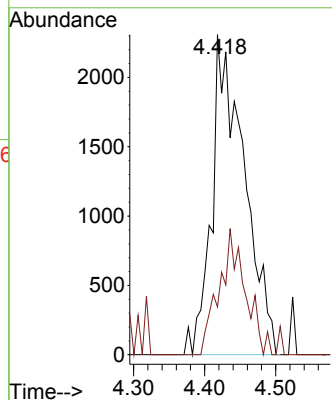
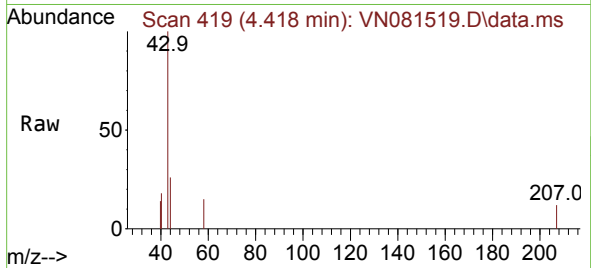




#16
Acetone
Concen: 3.620 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

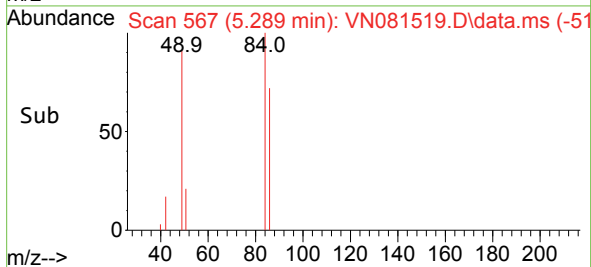
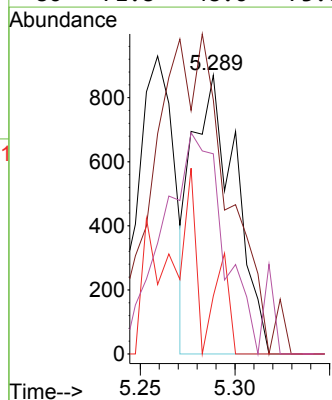
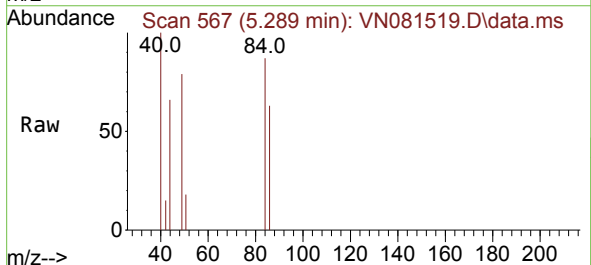
Instrument :
MSVOA_N
ClientSampleId :

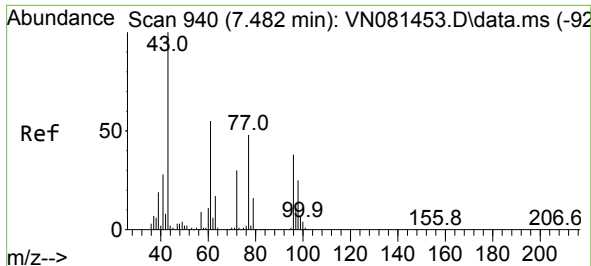
Tgt Ion: 43 Resp: 7336
Ion Ratio Lower Upper
43 100
58 14.9 24.8 37.2#



#20
Methylene Chloride
Concen: 0.208 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.012 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion: 84 Resp: 1378
Ion Ratio Lower Upper
84 100
49 71.5 108.1 162.1#
51 20.8 32.9 49.3#
86 71.8 48.6 73.0

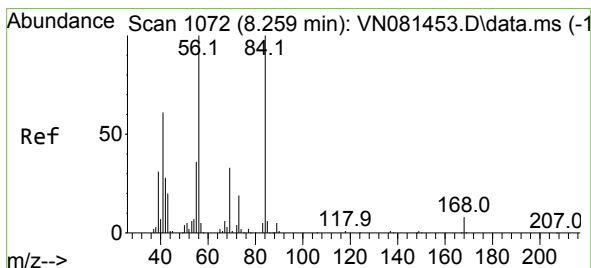
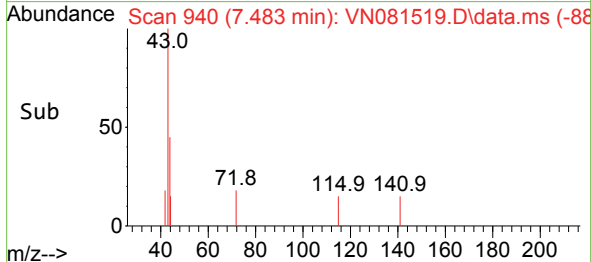
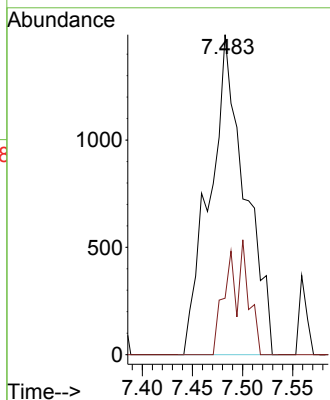
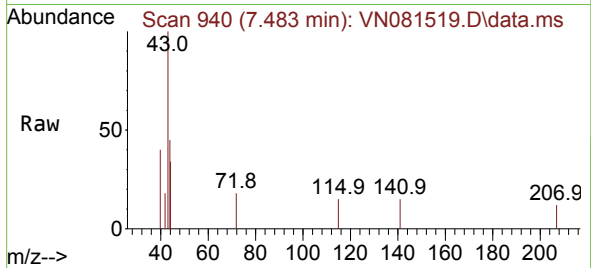




#25
2-Butanone
Concen: 1.052 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

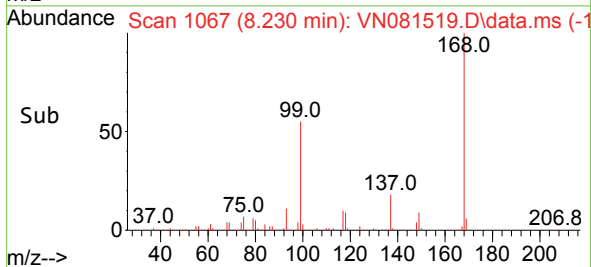
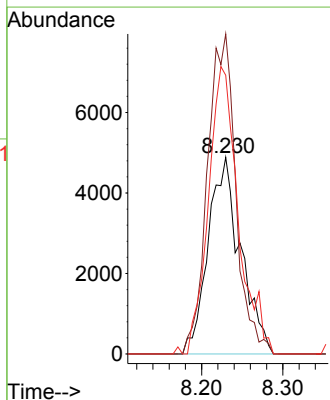
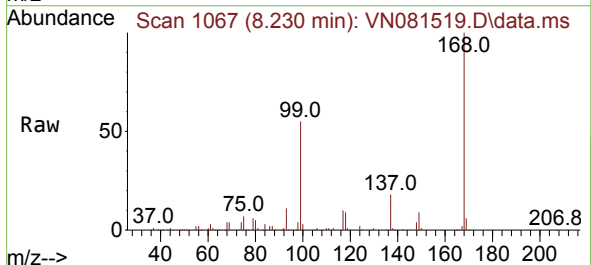
Instrument :
MSVOA_N
ClientSampleId :

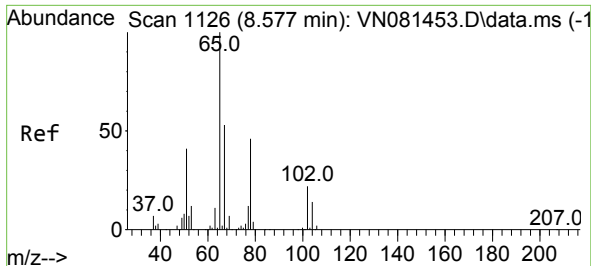
Tgt Ion: 43 Resp: 3656
Ion Ratio Lower Upper
43 100
72 17.6 19.5 29.3#



#31
Cyclohexane
Concen: 1.331 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion: 56 Resp: 13576
Ion Ratio Lower Upper
56 100
69 162.8 20.1 30.1#
84 141.8 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 48.129 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

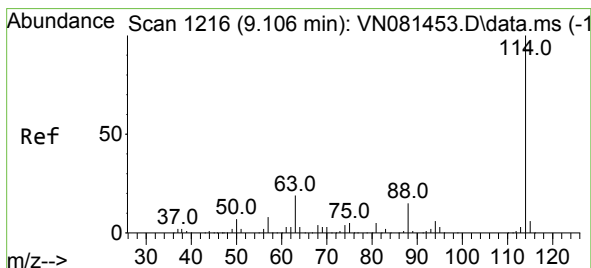
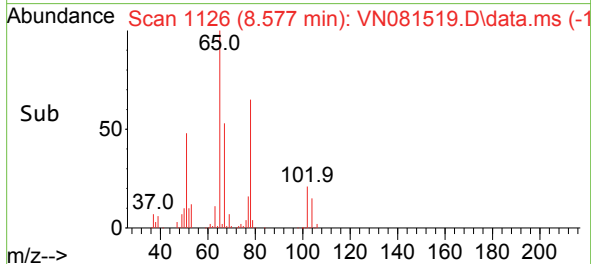
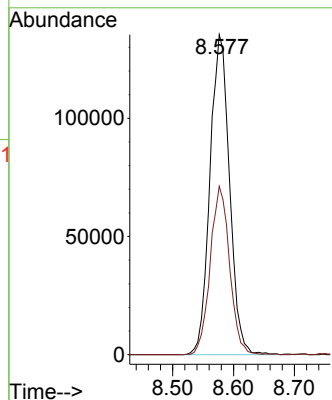
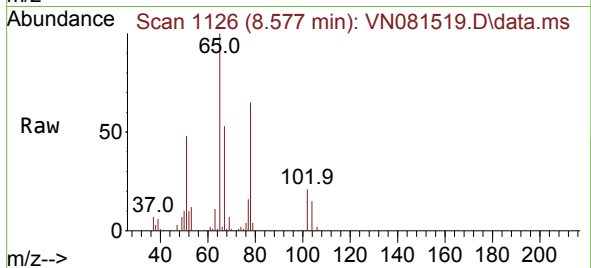
ClientSampleId :

Tgt Ion: 65 Resp: 301784

Ion Ratio Lower Upper

65 100

67 52.2 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: VN081519.D

Acq: 21 Mar 2024 15:01

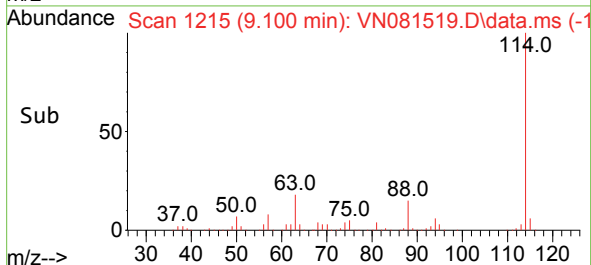
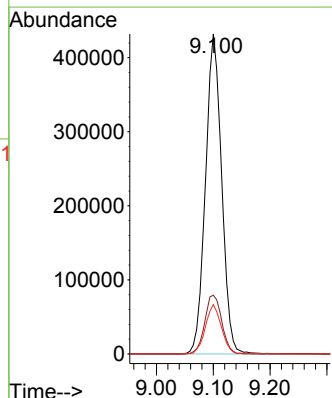
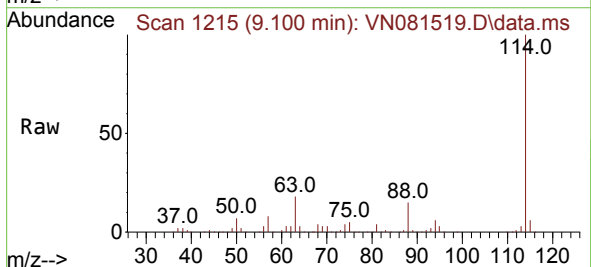
Tgt Ion: 114 Resp: 852890

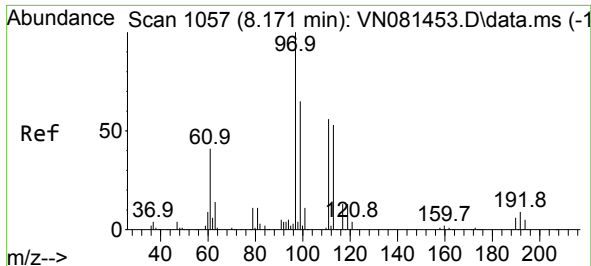
Ion Ratio Lower Upper

114 100

63 18.4 0.0 48.0

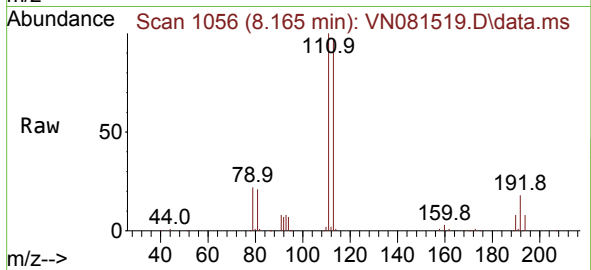
88 15.4 0.0 34.8



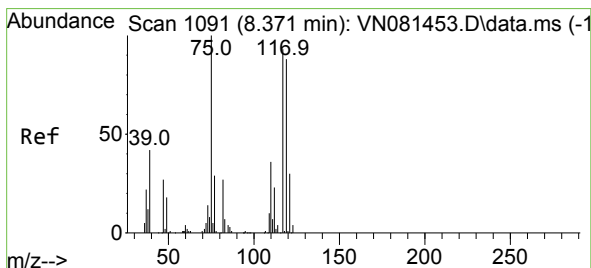
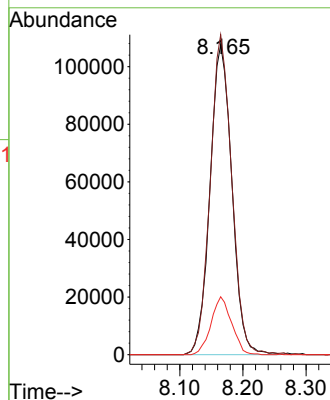
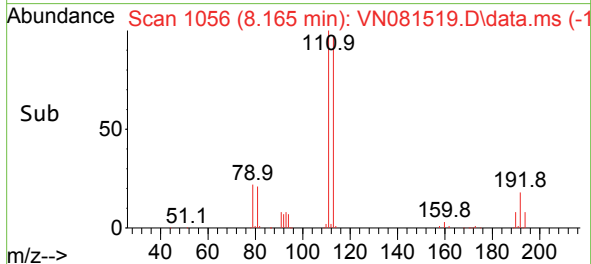


#35
 Dibromofluoromethane
 Concen: 48.085 ug/l
 RT: 8.165 min Scan# 1056
 Delta R.T. -0.006 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

Instrument :
 MSVOA_N
 ClientSampleId :

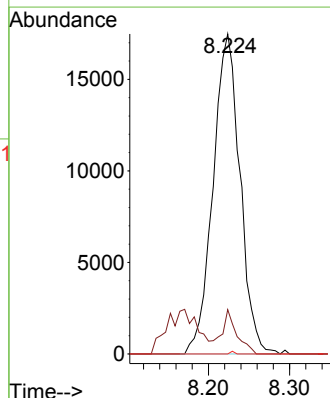
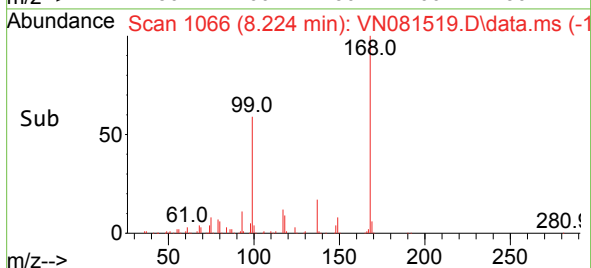
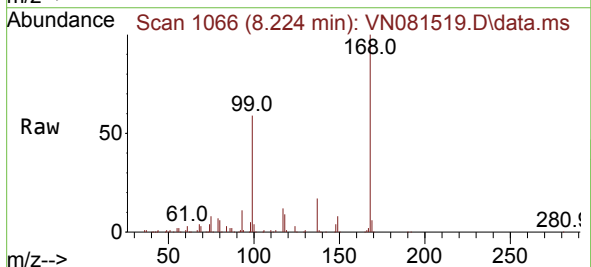


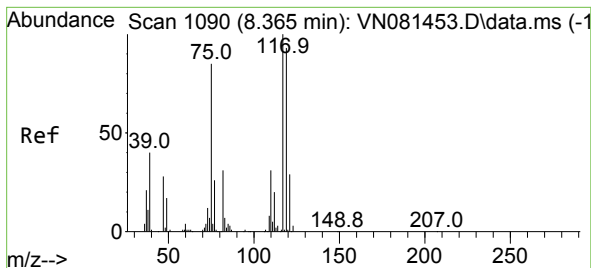
Tgt Ion:113 Resp: 258825
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.2 123.4
 192 17.6 12.5 18.7



#36
 1,1-Dichloropropene
 Concen: 4.446 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

Tgt Ion: 75 Resp: 40272
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.0 48.0#
 77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.374 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

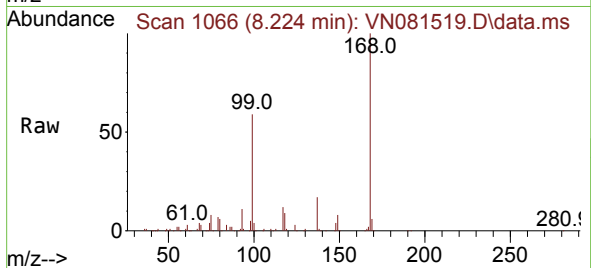
Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

ClientSampleId :



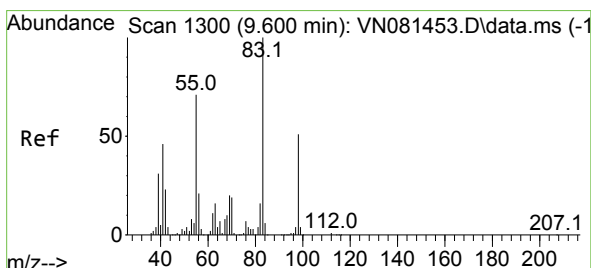
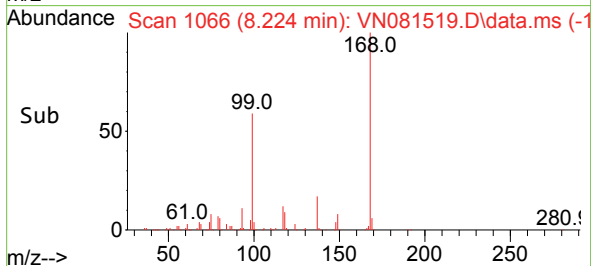
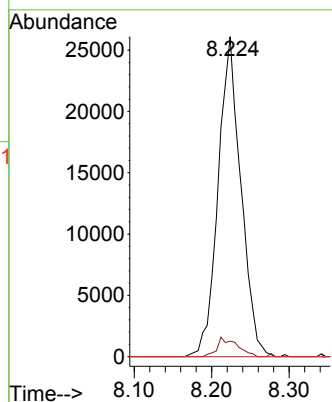
Tgt Ion:117 Resp: 53324

Ion Ratio Lower Upper

117 100

119 4.9 73.4 110.2#

121 0.0 24.4 36.6#



#39

Methylcyclohexane

Concen: 0.215 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

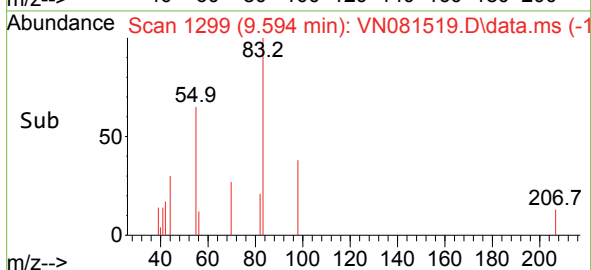
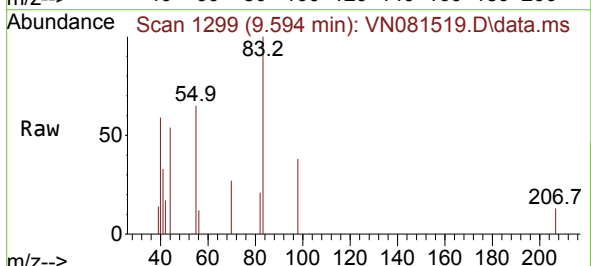
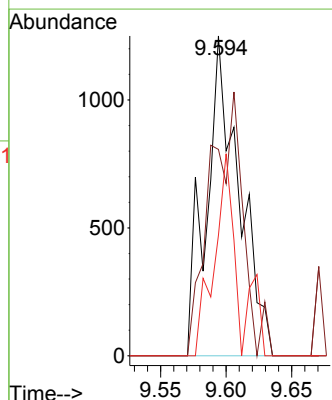
Tgt Ion: 83 Resp: 2172

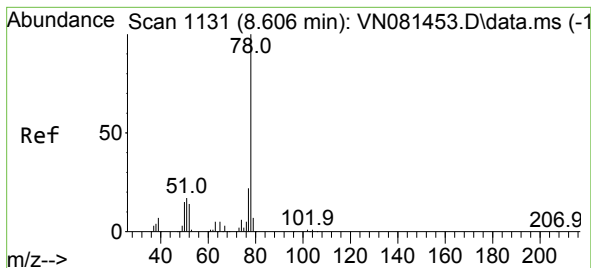
Ion Ratio Lower Upper

83 100

55 64.6 65.7 98.5#

98 37.7 33.8 50.6





#40

Benzene

Concen: 48.629 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

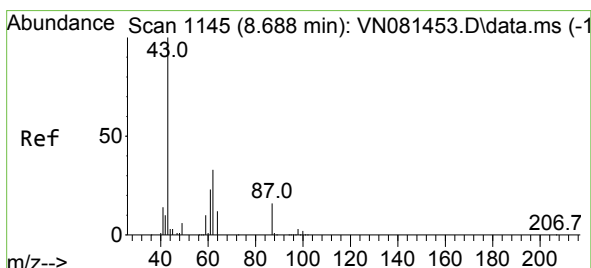
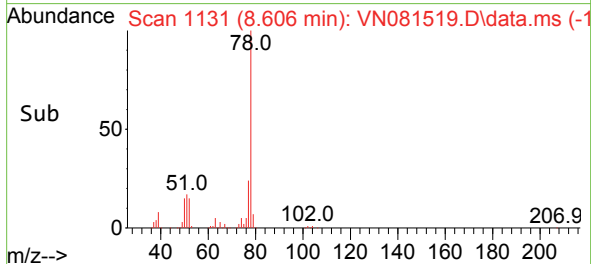
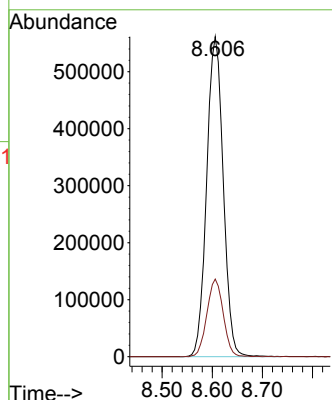
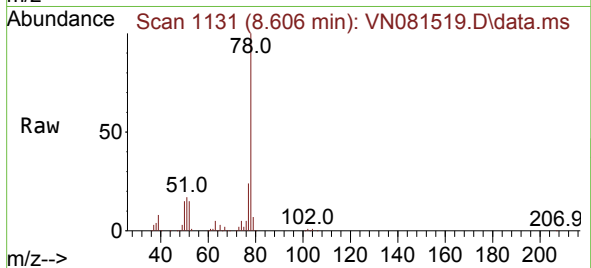
ClientSampleId :

Tgt Ion: 78 Resp: 1287829

Ion Ratio Lower Upper

78 100

77 24.2 20.4 30.6



#43

Isopropyl Acetate

Concen: 1.122 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

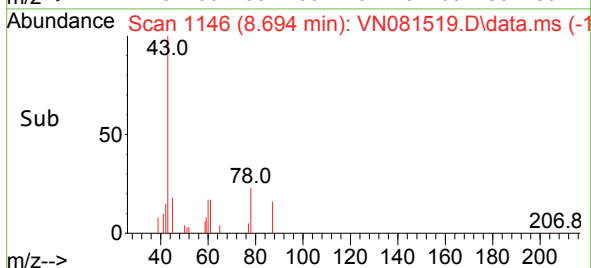
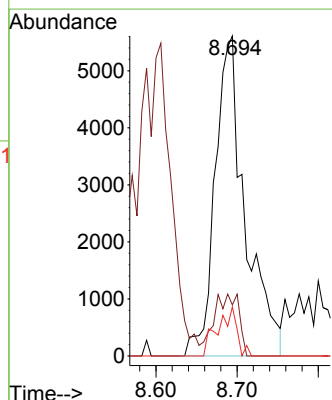
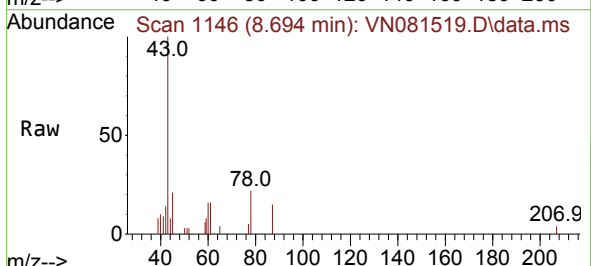
Tgt Ion: 43 Resp: 14424

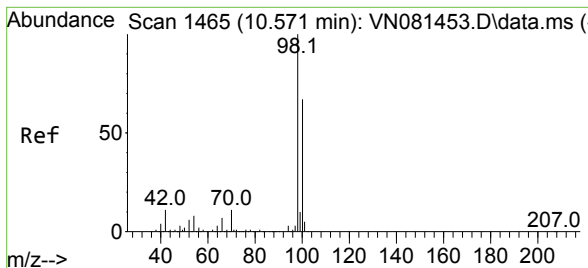
Ion Ratio Lower Upper

43 100

61 16.2 19.9 29.9#

87 9.8 9.0 13.6

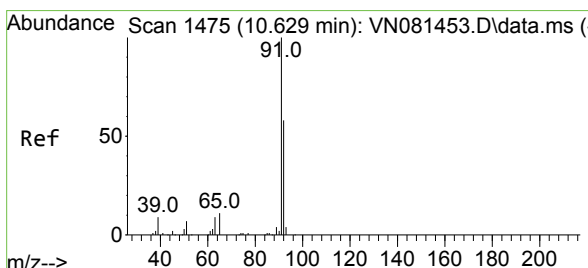
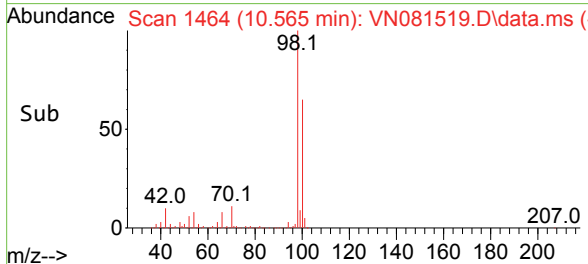
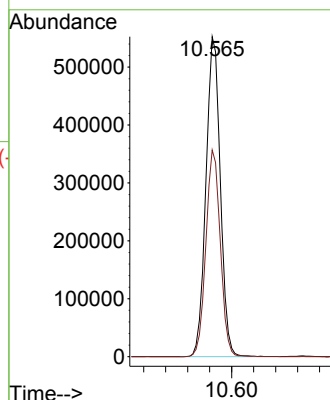
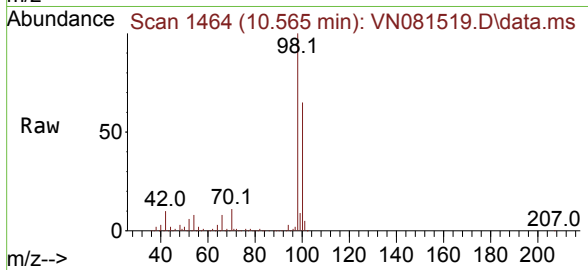




#50
Toluene-d8
Concen: 51.495 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

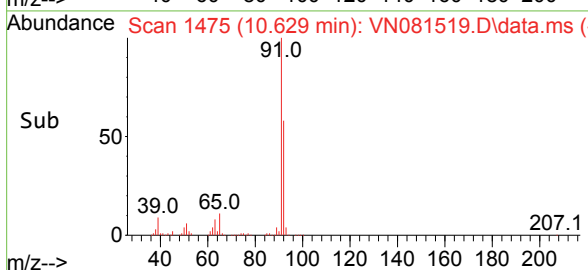
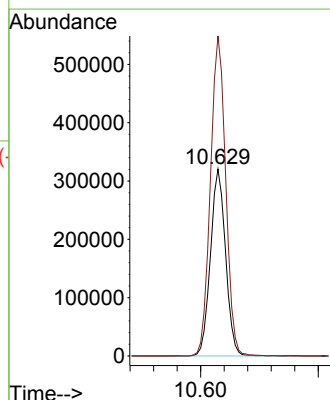
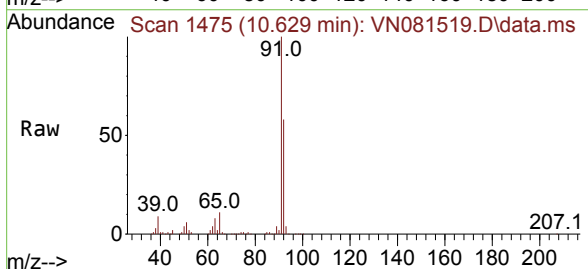
Instrument :
MSVOA_N
ClientSampleId :

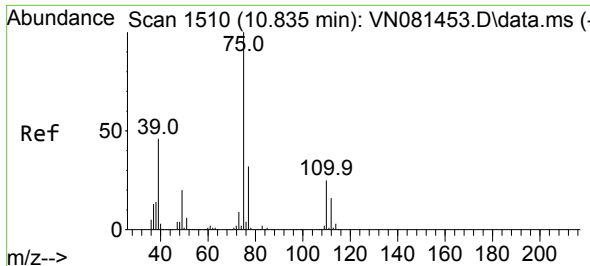
Tgt Ion: 98 Resp: 1001964
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.0



#52
Toluene
Concen: 33.879 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

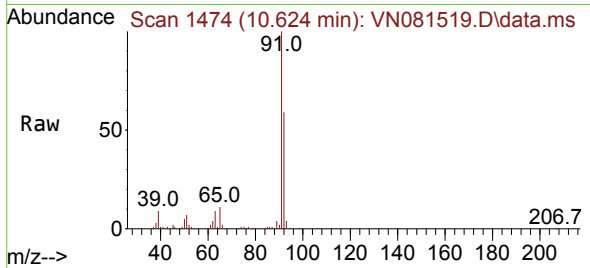
Tgt Ion: 92 Resp: 570249
Ion Ratio Lower Upper
92 100
91 173.2 139.4 209.0



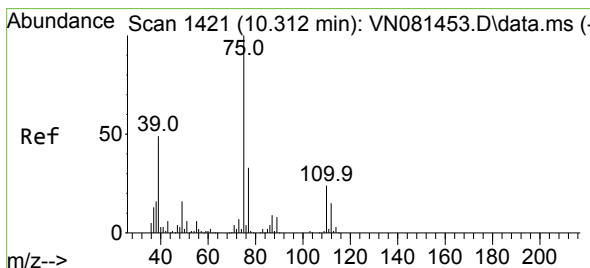
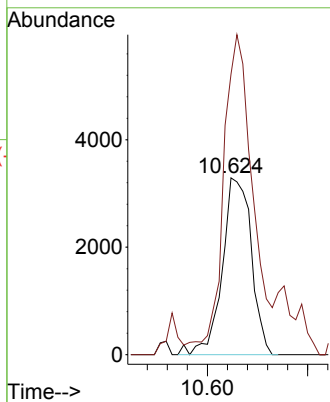
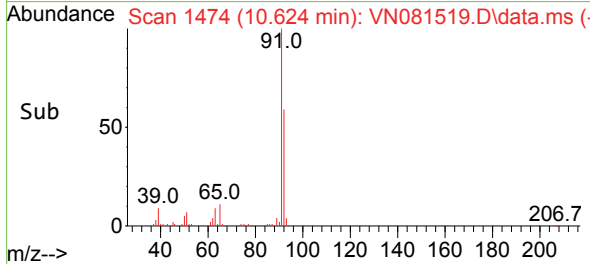


#53
t-1,3-Dichloropropene
Concen: 0.643 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.212 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Instrument :
MSVOA_N
ClientSampleId :

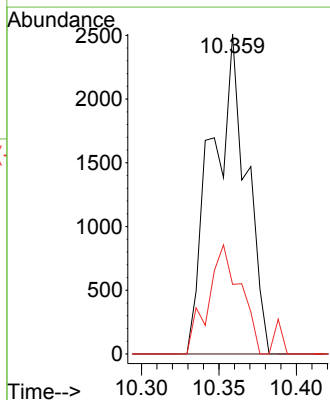
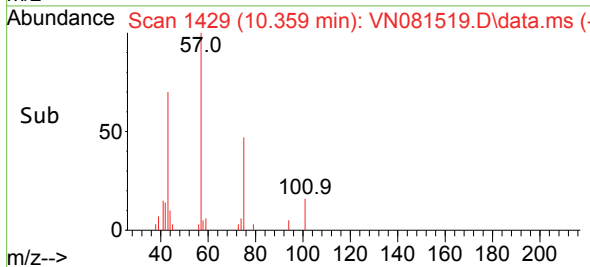
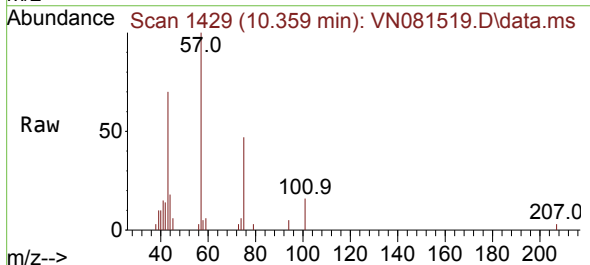


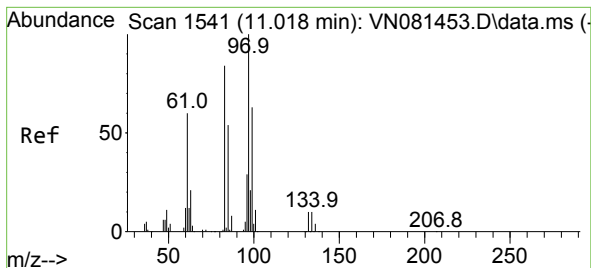
Tgt Ion: 75 Resp: 6617
Ion Ratio Lower Upper
75 100
77 148.8 25.5 38.3#



#54
cis-1,3-Dichloropropene
Concen: 0.355 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

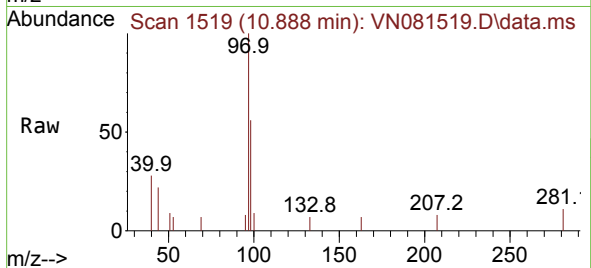
Tgt Ion: 75 Resp: 3919
Ion Ratio Lower Upper
75 100
77 0.0 23.3 34.9#
39 21.8 44.6 66.8#





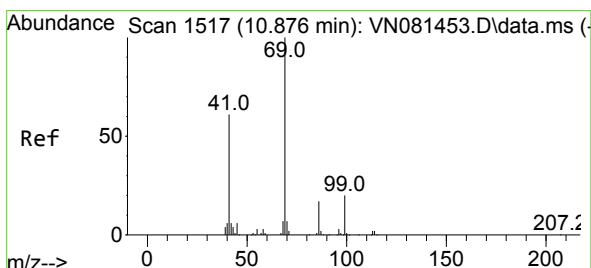
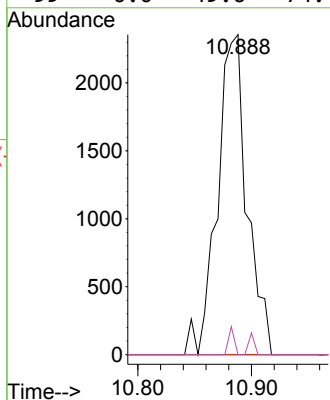
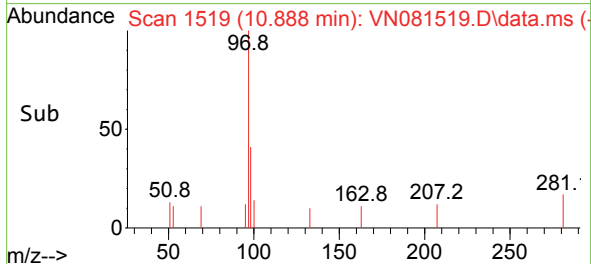
#55
1,1,2-Trichloroethane
Concen: 0.630 ug/l
RT: 10.888 min Scan# 1519
Delta R.T. -0.129 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 97 Resp: 4268

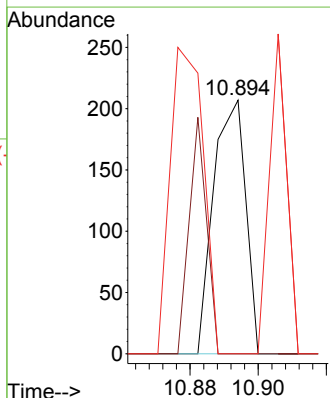
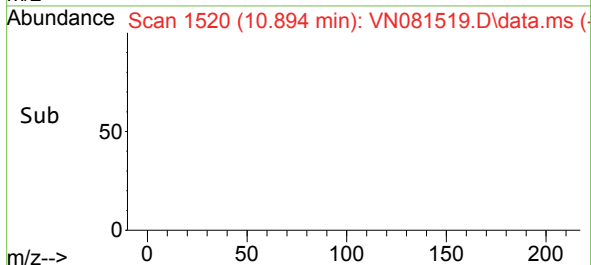
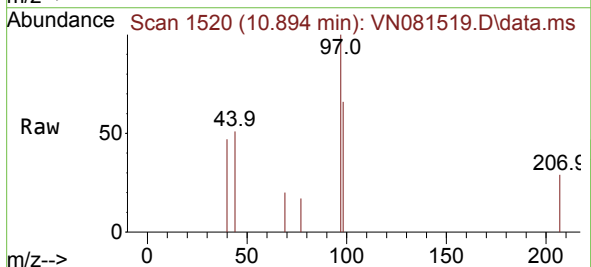
Ion	Ratio	Lower	Upper
97	100		
83	0.0	72.9	109.3#
85	0.0	50.2	75.2#
99	0.0	49.6	74.4#

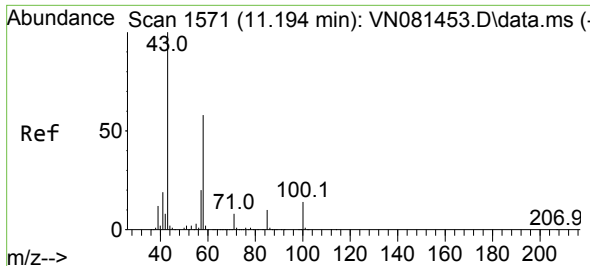


#56
Ethyl methacrylate
Concen: 0.585 ug/l
RT: 10.894 min Scan# 1520
Delta R.T. 0.018 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion: 69 Resp: 135

Ion	Ratio	Lower	Upper
69	100		
41	0.0	61.0	91.6#
39	0.0	31.8	47.6#

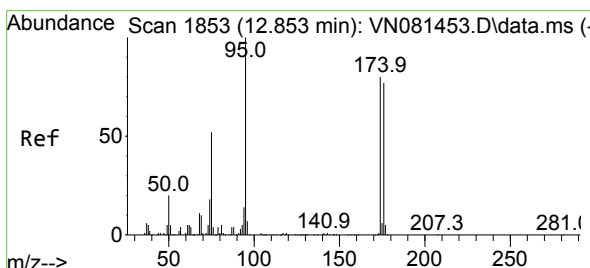
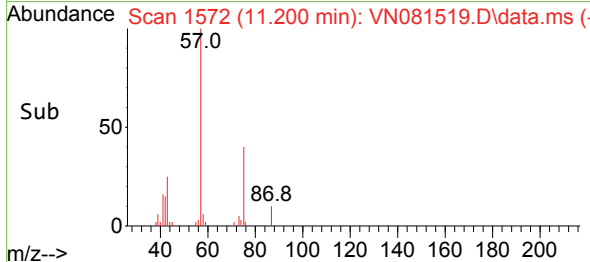
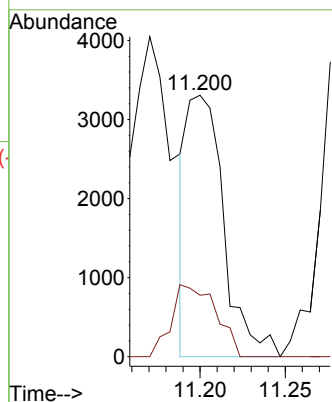
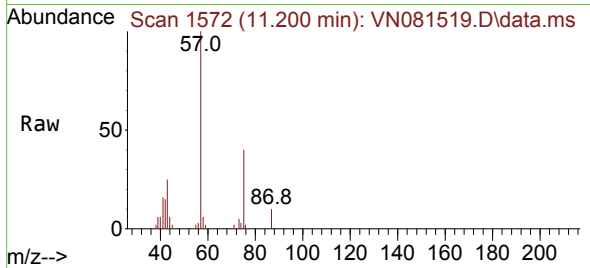




#59
2-Hexanone
Concen: 0.857 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

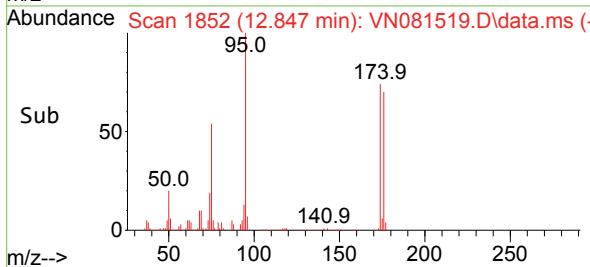
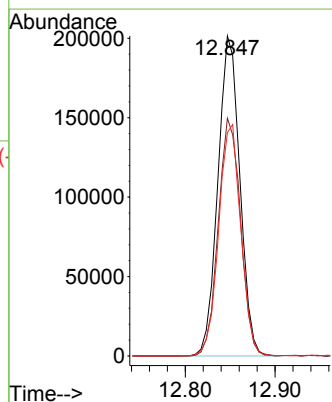
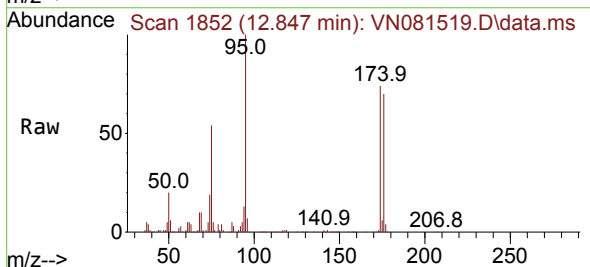
Instrument :
MSVOA_N
ClientSampleId :

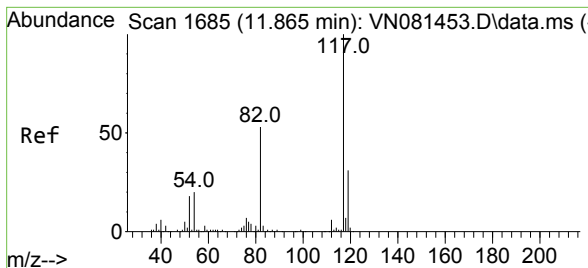
Tgt Ion: 43 Resp: 4972
Ion Ratio Lower Upper
43 100
58 33.3 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 49.889 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion: 95 Resp: 342045
Ion Ratio Lower Upper
95 100
174 75.4 0.0 120.4
176 72.8 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

ClientSampleId :

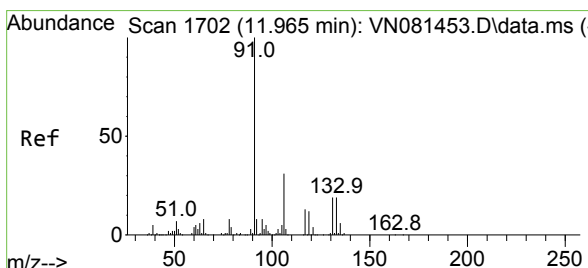
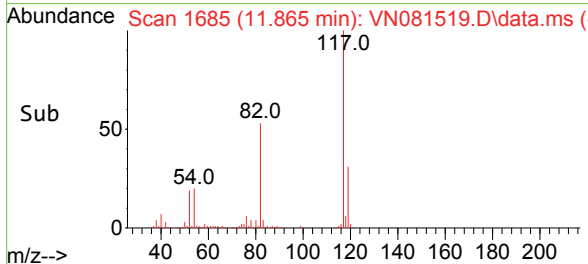
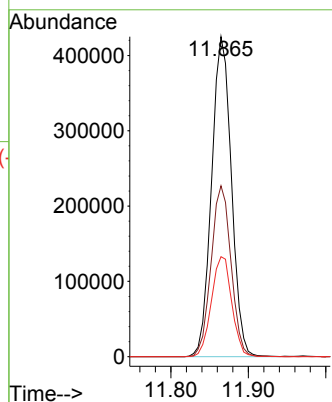
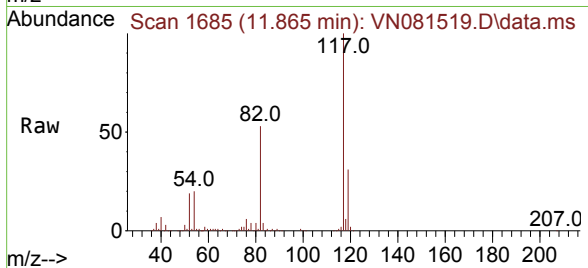
Tgt Ion:117 Resp: 754507

Ion Ratio Lower Upper

117 100

82 53.4 52.7 79.1

119 31.3 25.3 37.9



#67

Ethyl Benzene

Concen: 2.337 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN081519.D

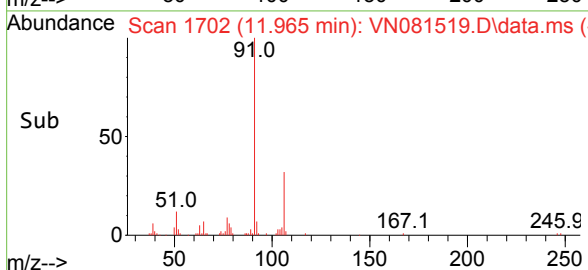
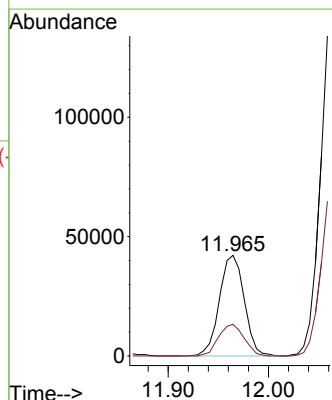
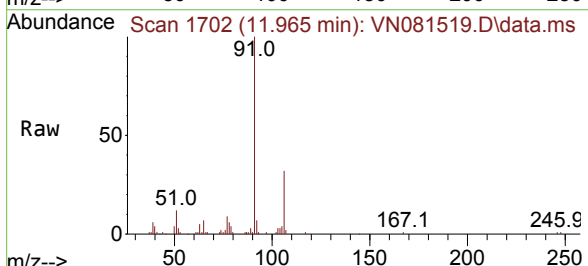
Acq: 21 Mar 2024 15:01

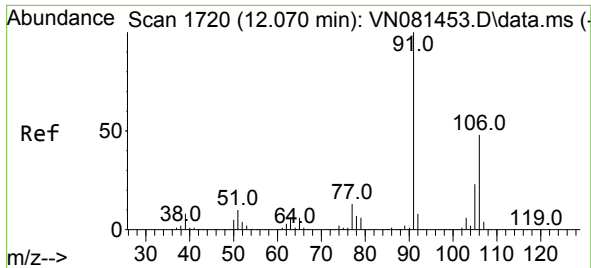
Tgt Ion: 91 Resp: 72395

Ion Ratio Lower Upper

91 100

106 31.5 23.8 35.6

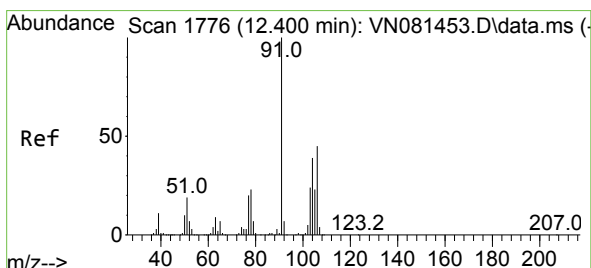
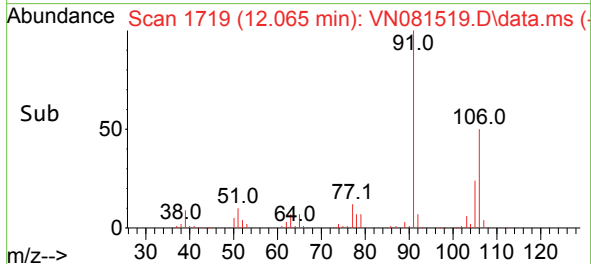
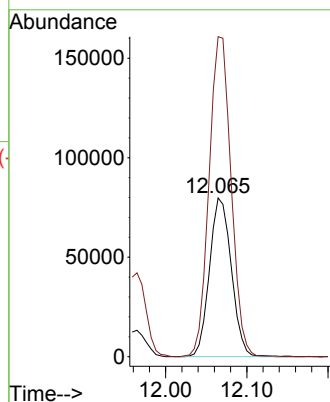
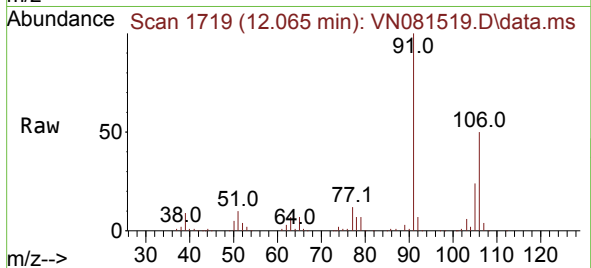




#68
m/p-Xylenes
Concen: 12.831 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

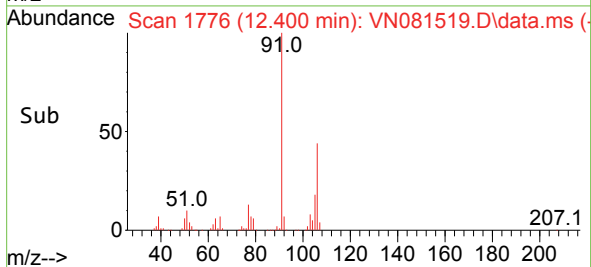
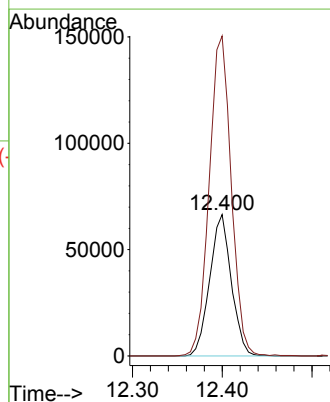
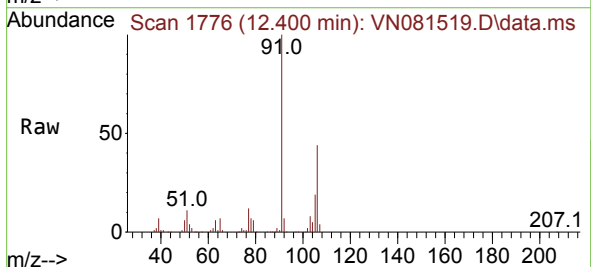
Instrument :
MSVOA_N
ClientSampleId :

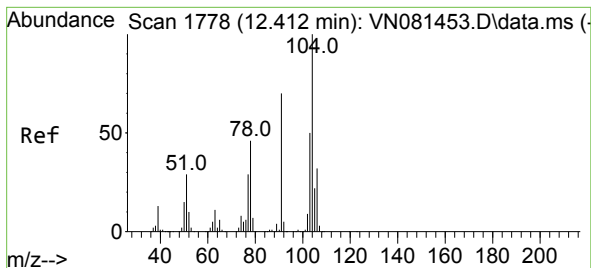
Tgt Ion:106 Resp: 149030
Ion Ratio Lower Upper
106 100
91 203.9 169.0 253.6



#69
o-Xylene
Concen: 9.749 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081519.D
Acq: 21 Mar 2024 15:01

Tgt Ion:106 Resp: 111170
Ion Ratio Lower Upper
106 100
91 230.7 112.1 336.3





#70

Styrene

Concen: 0.811 ug/l

RT: 12.406 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

ClientSampleId :

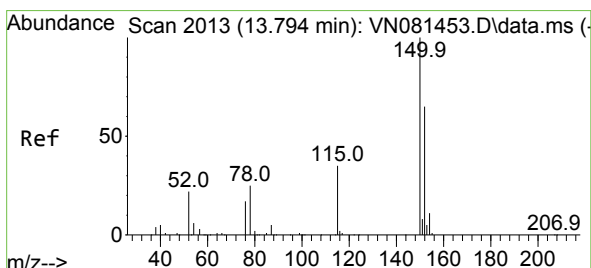
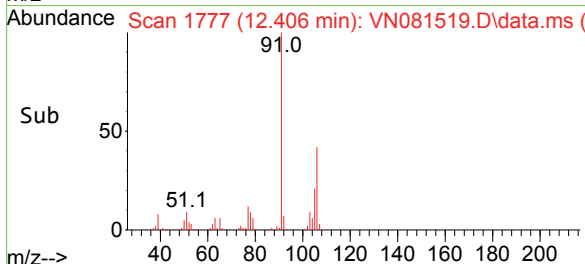
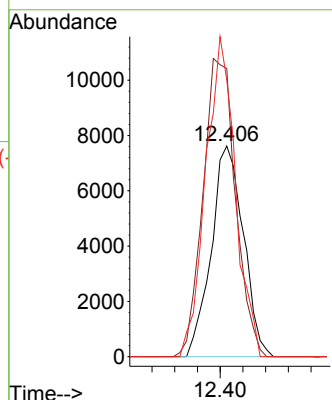
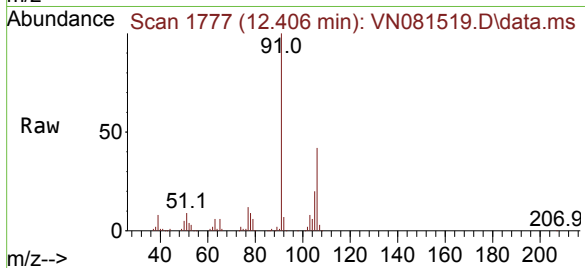
Tgt Ion:104 Resp: 14918

Ion Ratio Lower Upper

104 100

78 143.7 43.8 65.8#

103 140.5 44.2 66.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

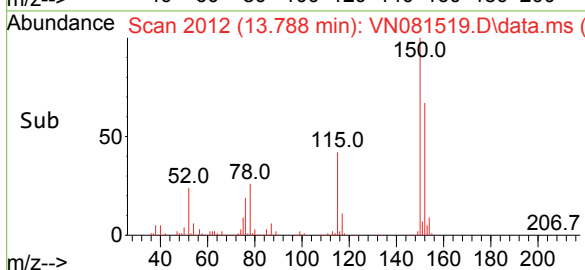
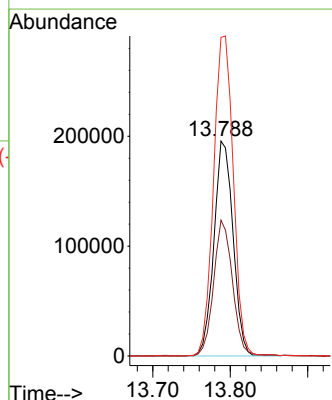
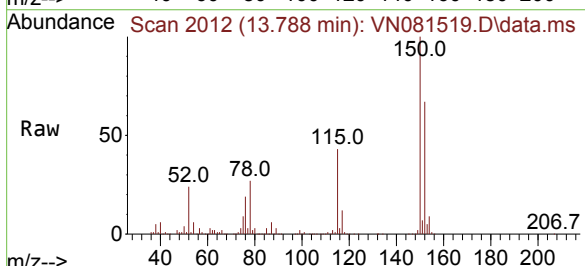
Tgt Ion:152 Resp: 336222

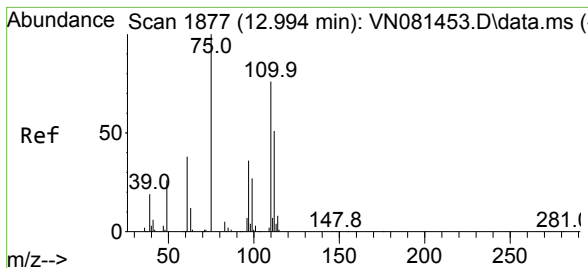
Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 153.5 0.0 339.8





#76

1,2,3-Trichloropropane

Concen: 21.793 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

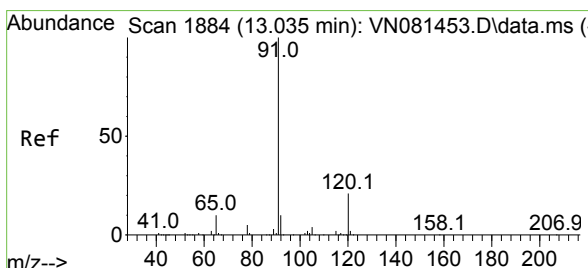
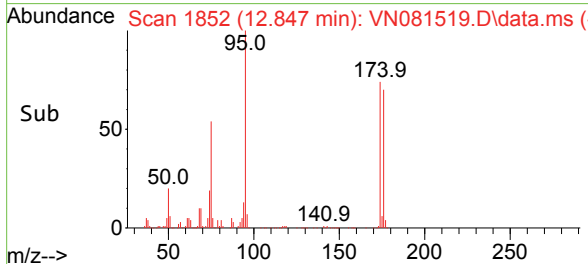
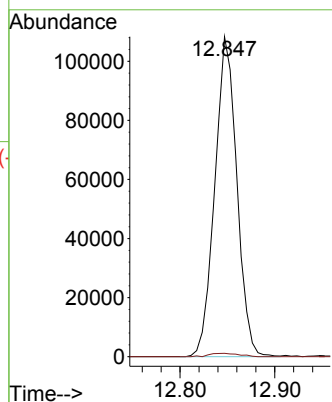
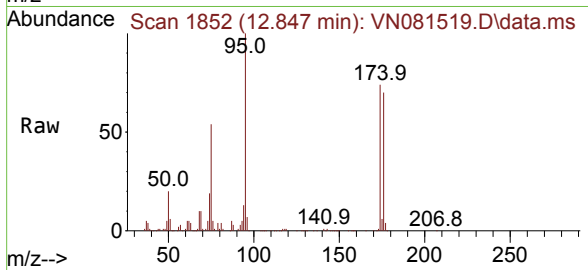
ClientSampleId :

Tgt Ion: 75 Resp: 175270

Ion Ratio Lower Upper

75 100

77 1.4 91.0 272.8#



#78

n-propylbenzene

Concen: 0.262 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN081519.D

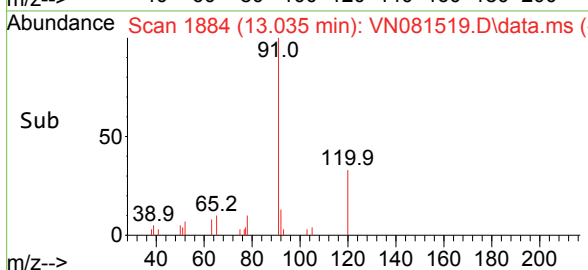
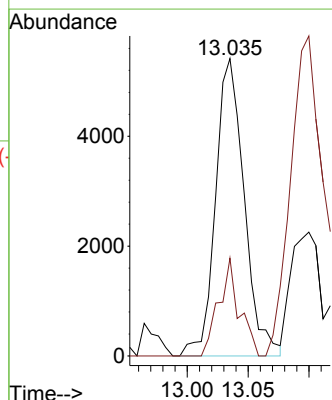
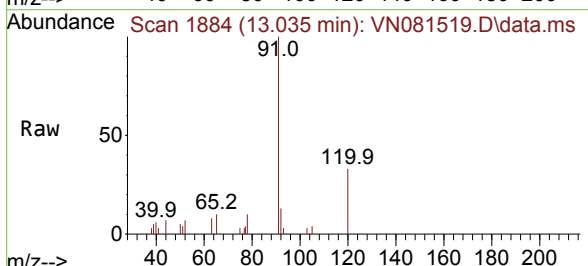
Acq: 21 Mar 2024 15:01

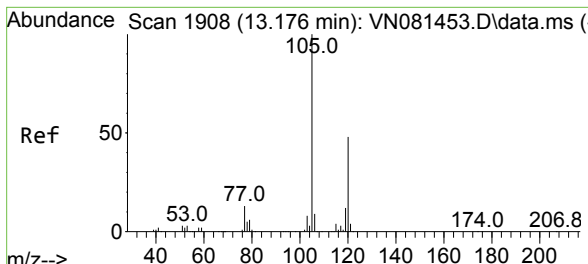
Tgt Ion: 91 Resp: 8873

Ion Ratio Lower Upper

91 100

120 23.5 10.3 30.9

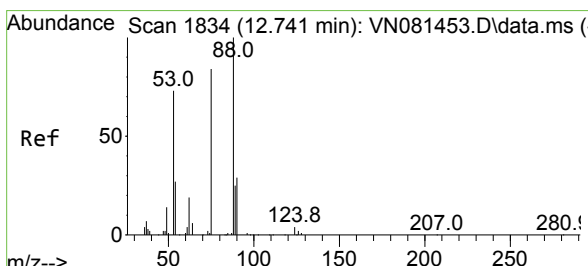
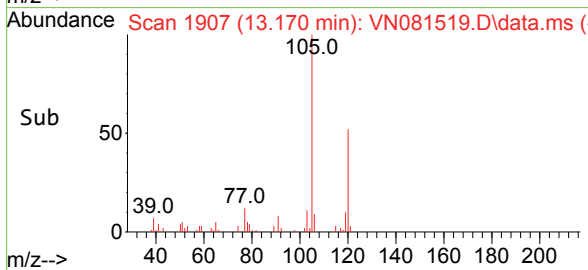
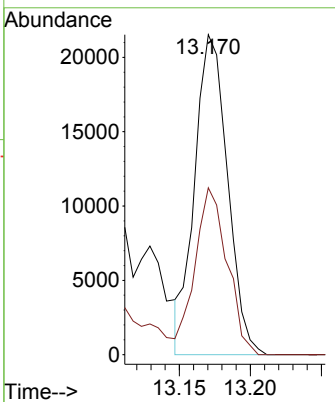
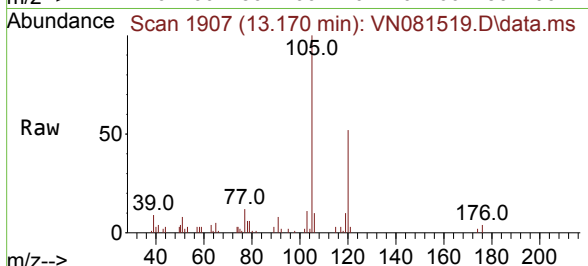




#80
 1,3,5-Trimethylbenzene
 Concen: 1.462 ug/l
 RT: 13.170 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

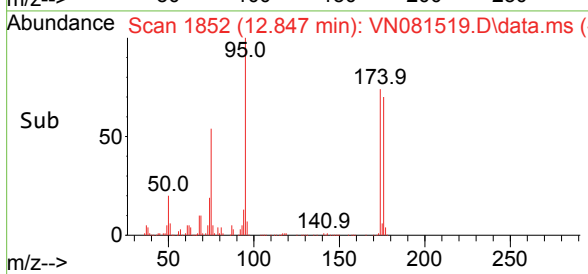
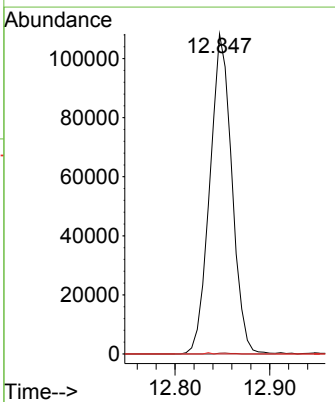
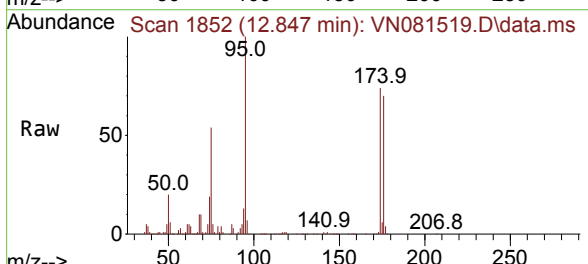
Instrument :
 MSVOA_N
 ClientSampleId :

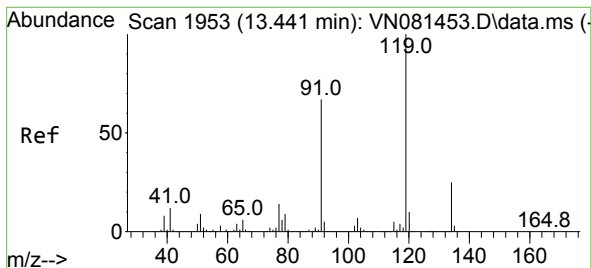
Tgt Ion:	105	Resp:	34611
Ion Ratio	Lower	Upper	
105	100		
120	51.1	23.0	69.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.891 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.106 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

Tgt Ion:	75	Resp:	175270
Ion Ratio	Lower	Upper	
75	100		
53	0.2	71.4	107.2#
89	0.1	33.4	50.0#





#83

tert-Butylbenzene

Concen: 0.613 ug/l

RT: 13.482 min Scan# 1953

Delta R.T. 0.041 min

Lab File: VN081519.D

Acq: 21 Mar 2024 15:01

Instrument :

MSVOA_N

ClientSampleId :

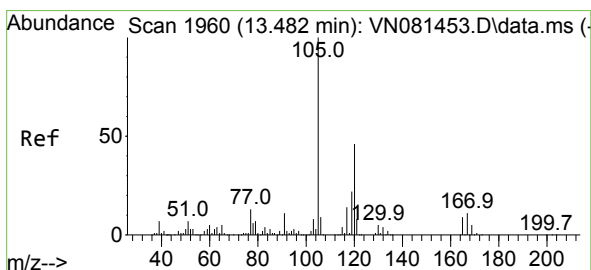
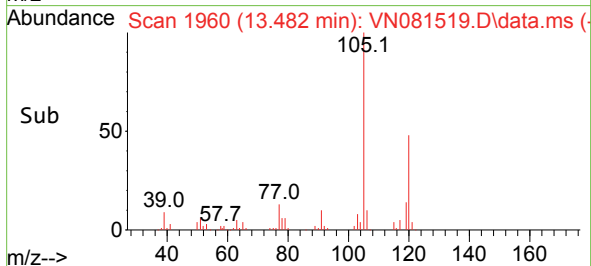
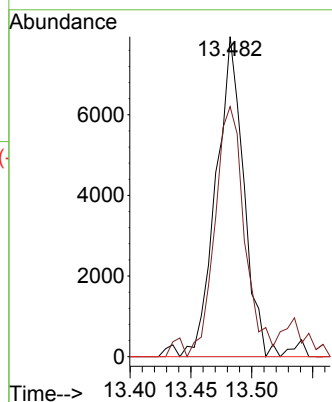
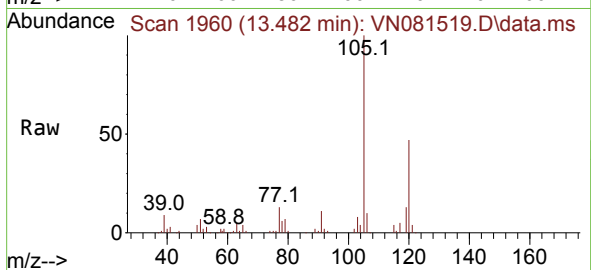
Tgt Ion:119 Resp: 12507

Ion Ratio Lower Upper

119 100

91 83.8 36.8 110.4

134 0.0 12.4 37.4#



#84

1,2,4-Trimethylbenzene

Concen: 4.388 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN081519.D

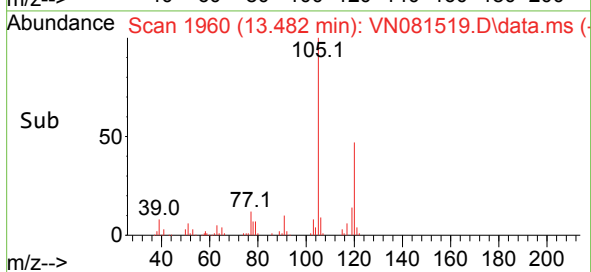
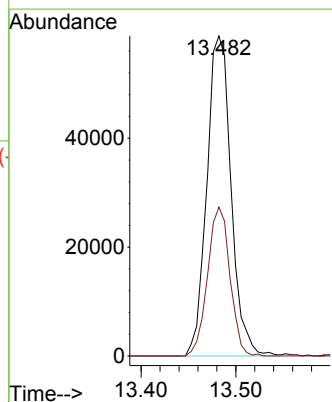
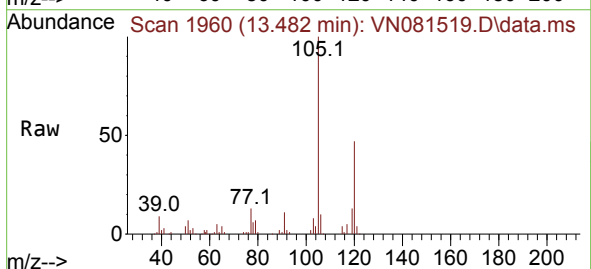
Acq: 21 Mar 2024 15:01

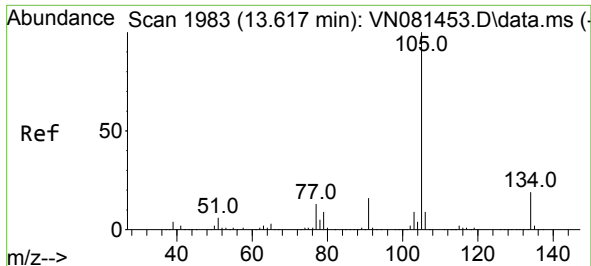
Tgt Ion:105 Resp: 104395

Ion Ratio Lower Upper

105 100

120 42.8 20.9 62.7

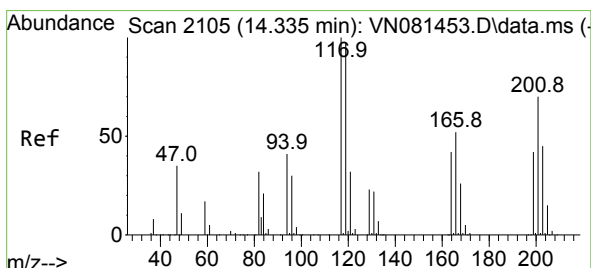
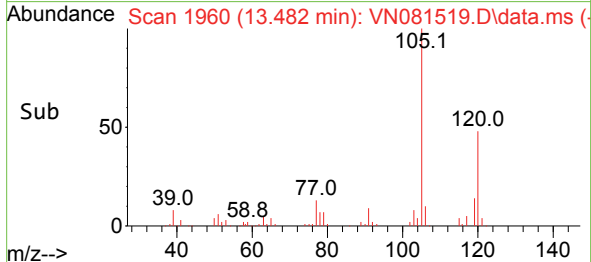
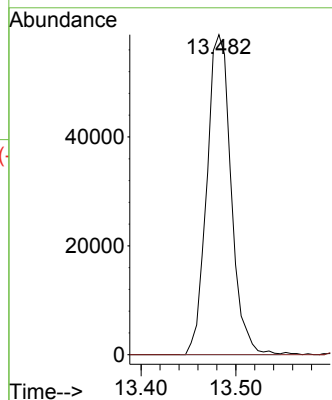
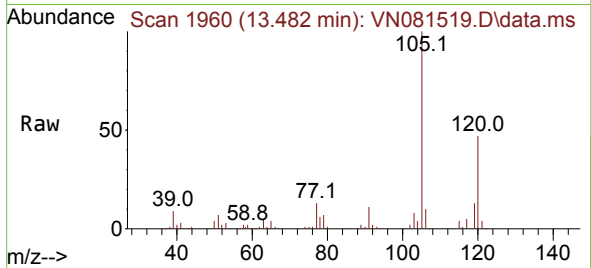




#85
 sec-Butylbenzene
 Concen: 3.577 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. -0.135 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

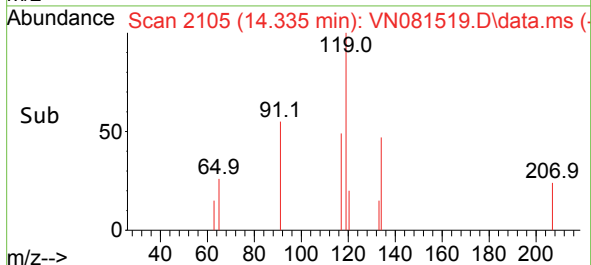
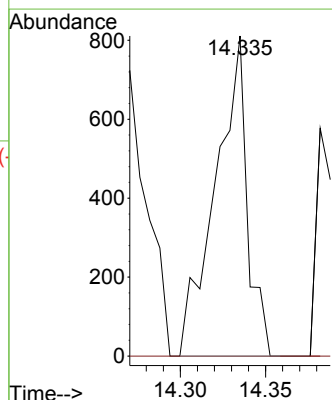
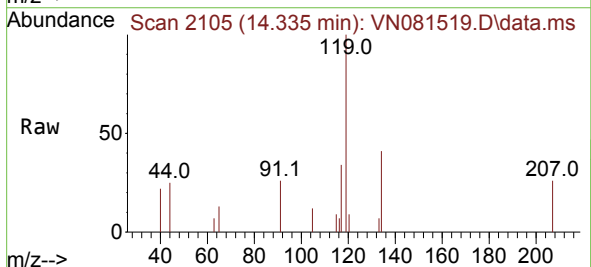
Instrument :
 MSVOA_N
 ClientSampleId :

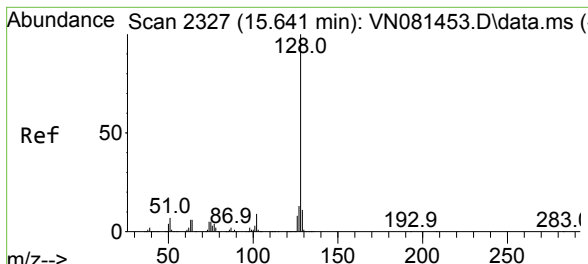
Tgt Ion:105 Resp: 104395
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.6 25.8#



#90
 Hexachloroethane
 Concen: 0.233 ug/l
 RT: 14.335 min Scan# 2105
 Delta R.T. 0.000 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

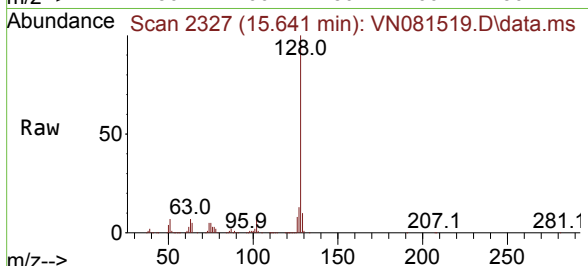
Tgt Ion:117 Resp: 1053
 Ion Ratio Lower Upper
 117 100
 201 0.0 30.0 90.0#





#95
 Naphthalene
 Concen: 49.354 ug/l
 RT: 15.641 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN081519.D
 Acq: 21 Mar 2024 15:01

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 1157683

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.0	15.0
129	10.5	8.7	13.1

