

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032924\
 Data File : VN081615.D
 Acq On : 29 Mar 2024 15:05
 Operator : JC\MD
 Sample : P1921-04 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-19

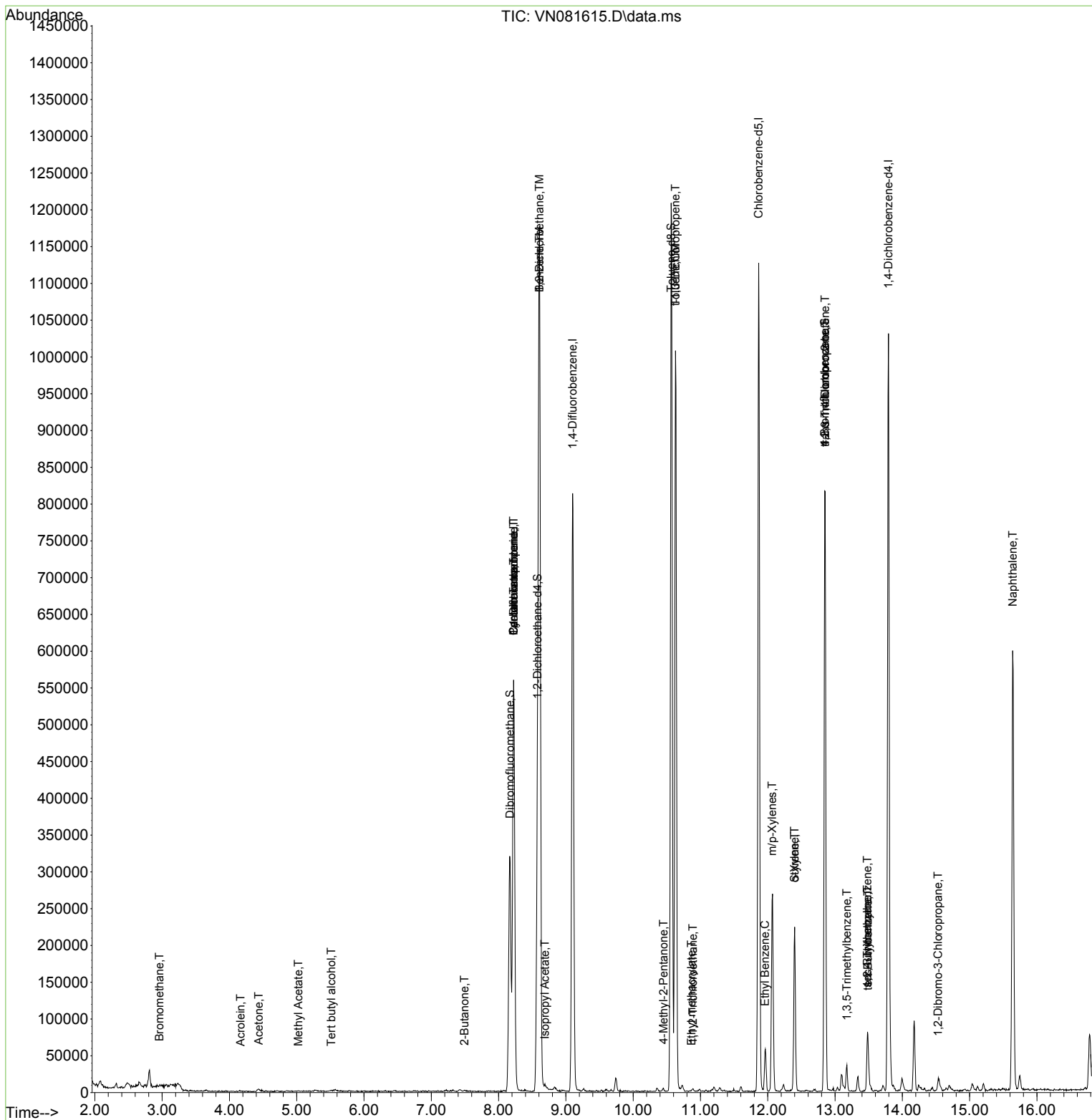
Quant Time: Mar 30 00:29:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

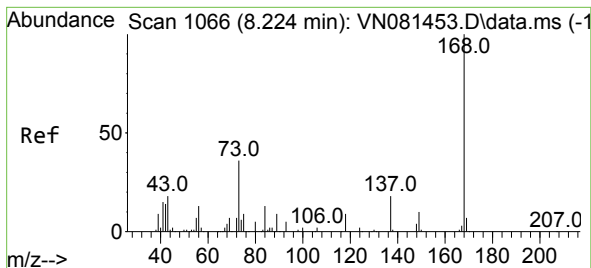
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	397687	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	733143	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	658137	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	278251	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	270323	53.302	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 106.600%		
35) Dibromofluoromethane	8.171	113	230435	49.804	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 99.600%		
50) Toluene-d8	10.565	98	868466	51.924	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 103.840%		
62) 4-Bromofluorobenzene	12.847	95	289663	49.150	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery	= 98.300%		
Target Compounds						
						Qvalue
5) Bromomethane	2.959	94	872	0.206	ug/l	# 68
11) Tert butyl alcohol	5.512	59	926	1.048	ug/l	# 72
13) Acrolein	4.165	56	193	0.243	ug/l	# 1
16) Acetone	4.436	43	6872	4.193	ug/l	98
18) Methyl Acetate	5.024	43	1040	0.206	ug/l	# 87
25) 2-Butanone	7.494	43	2031	0.722	ug/l	94
31) Cyclohexane	8.224	56	11258	1.364	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	32806	4.213	ug/l	# 51
38) Carbon Tetrachloride	8.224	117	40946	4.800	ug/l	# 20
40) Benzene	8.606	78	1166158	51.227	ug/l	96
42) 1,2-Dichloroethane	8.606	62	9237	1.153	ug/l	87
43) Isopropyl Acetate	8.688	43	4813	0.435	ug/l	# 89
51) 4-Methyl-2-Pentanone	10.453	43	2521	0.374	ug/l	# 83
52) Toluene	10.629	92	453818	31.365	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	5066	0.573	ug/l	# 1
55) 1,1,2-Trichloroethane	10.888	97	3064	0.526	ug/l	# 13
56) Ethyl methacrylate	10.865	69	57	0.577	ug/l	# 20
67) Ethyl Benzene	11.959	91	40476	1.498	ug/l	100
68) m/p-Xylenes	12.065	106	85444	8.433	ug/l	97
69) o-Xylene	12.400	106	62173	6.251	ug/l	89
70) Styrene	12.400	104	9481	0.591	ug/l	# 7
76) 1,2,3-Trichloropropane	12.853	75	149728	22.496	ug/l	# 1
80) 1,3,5-Trimethylbenzene	13.176	105	17682	0.903	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.853	75	149728	60.790	ug/l	# 15
83) tert-Butylbenzene	13.488	119	6850	0.405	ug/l	# 85
84) 1,2,4-Trimethylbenzene	13.482	105	48664	2.472	ug/l	97
85) sec-Butylbenzene	13.482	105	48664	2.015	ug/l	# 60
92) 1,2-Dibromo-3-Chloropr...	14.529	75	343	0.231	ug/l	# 13
95) Naphthalene	15.641	128	557111	28.699	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# 1

Delta R.T. -0.000 min

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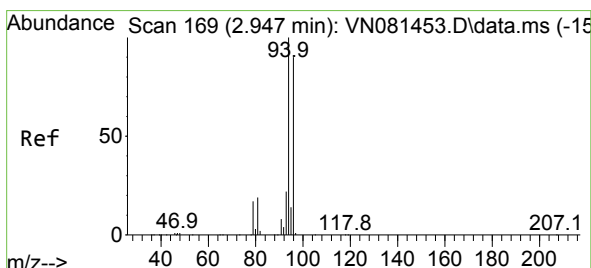
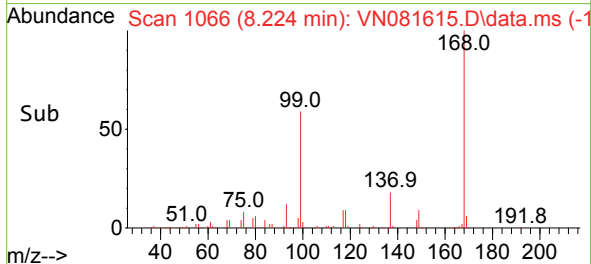
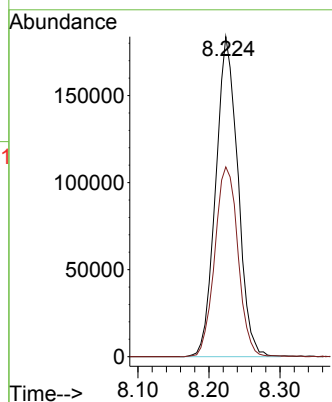
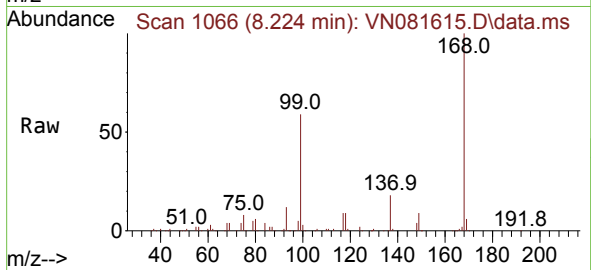
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Tgt Ion:168 Resp: 397687

Ion Ratio Lower Upper

168 100

99 59.3 59.9 89.9#



#5

Bromomethane

Concen: 0.206 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.012 min

Lab File: VN081615.D

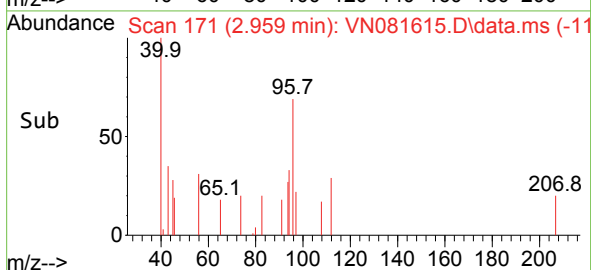
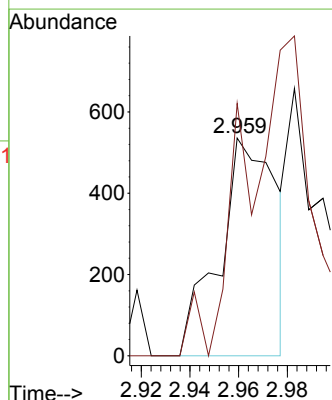
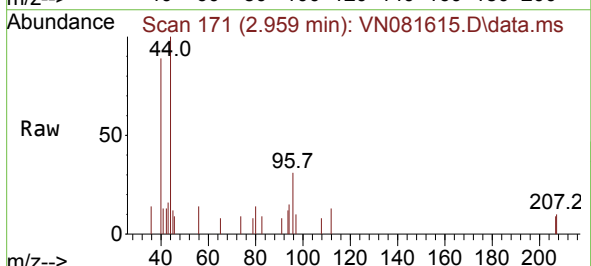
Acq: 29 Mar 2024 15:05

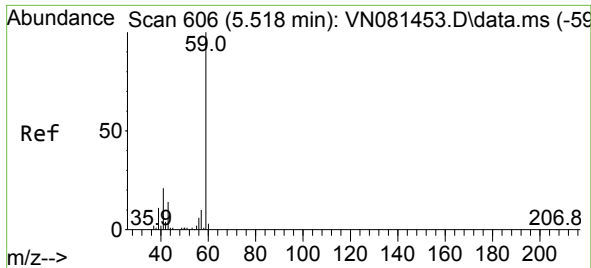
Tgt Ion: 94 Resp: 872

Ion Ratio Lower Upper

94 100

96 115.9 69.2 103.8#

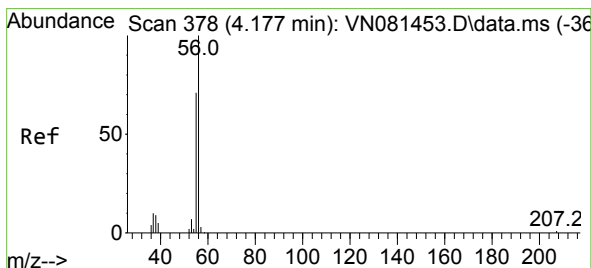
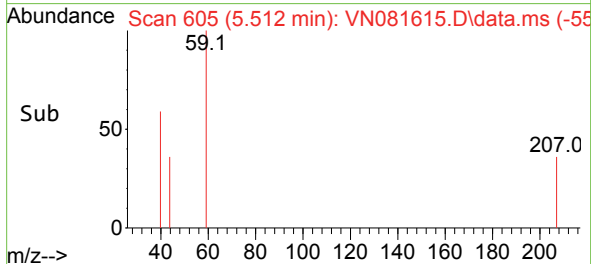
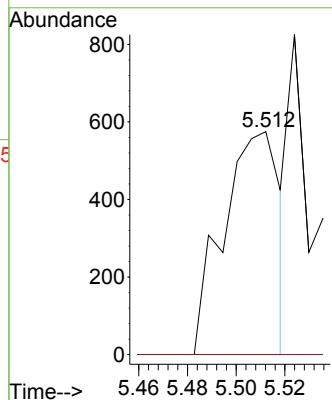
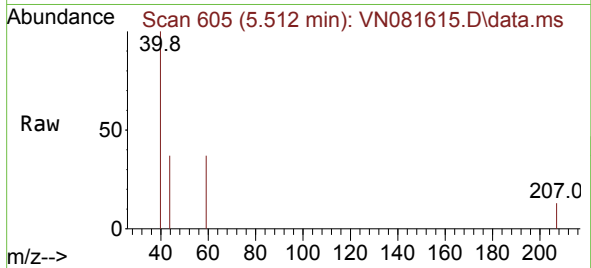




#11
Tert butyl alcohol
Concen: 1.048 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

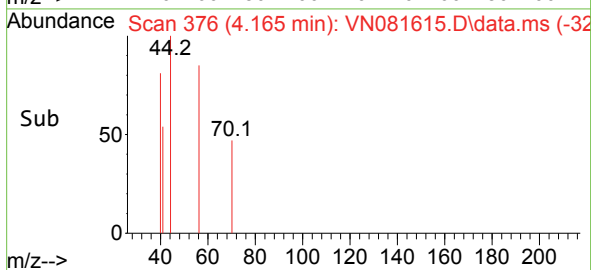
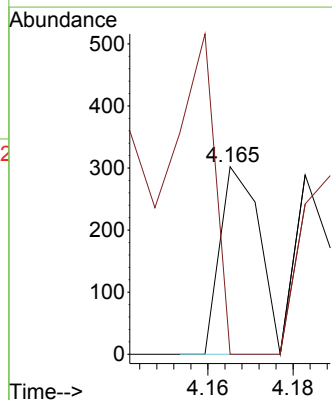
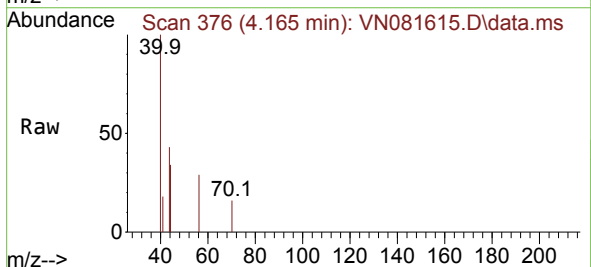
Instrument :
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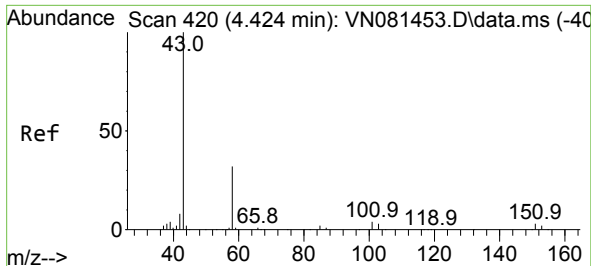
Tgt Ion: 59 Resp: 926
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.243 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 56 Resp: 193
Ion Ratio Lower Upper
56 100
55 357.5 55.3 82.9#

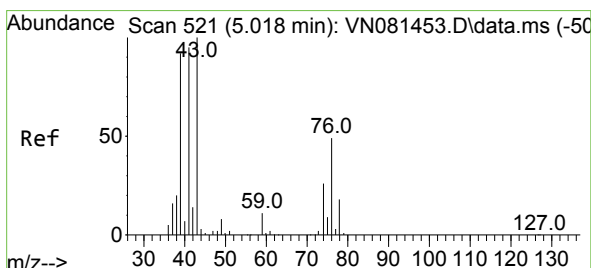
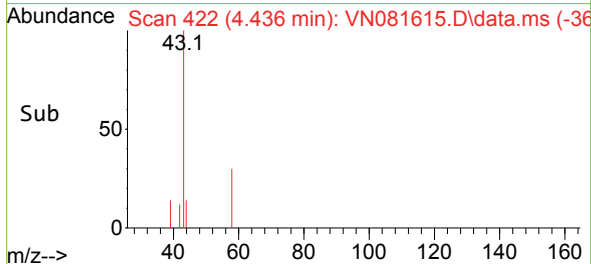
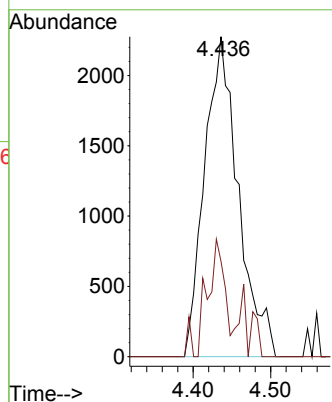
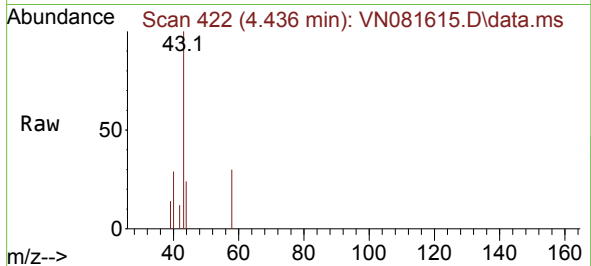




#16
Acetone
Concen: 4.193 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

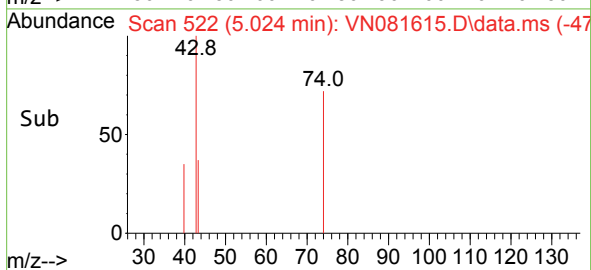
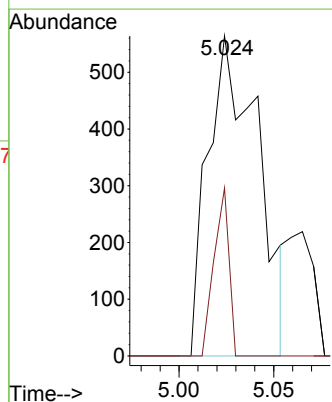
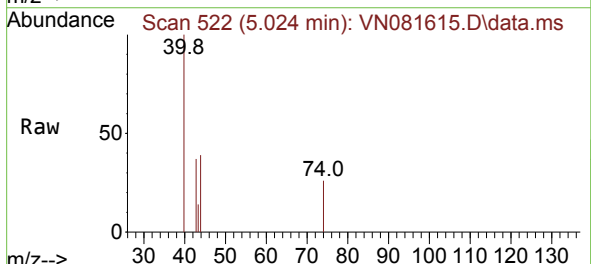
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ClientSampleId :
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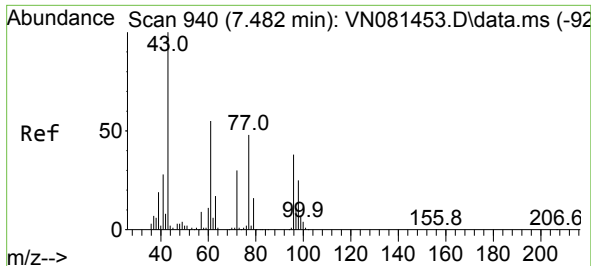
Tgt Ion: 43 Resp: 6872
Ion Ratio Lower Upper
43 100
58 29.8 24.8 37.2



#18
Methyl Acetate
Concen: 0.206 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 43 Resp: 1040
Ion Ratio Lower Upper
43 100
74 15.6 17.3 25.9#

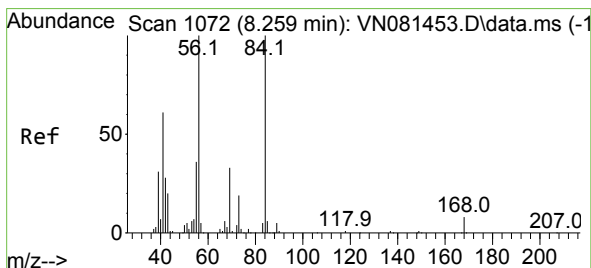
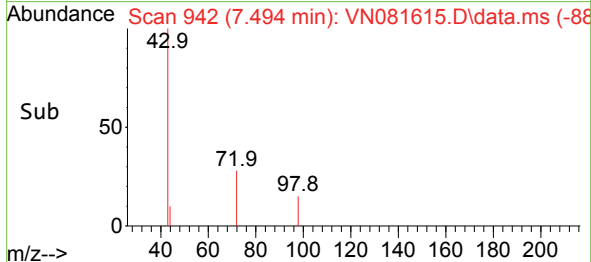
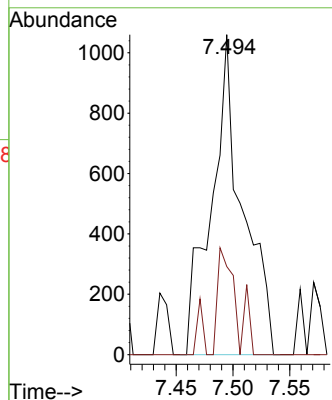
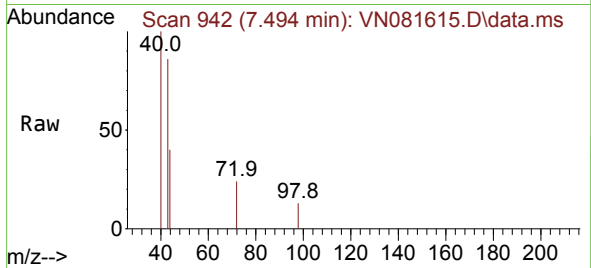




#25
2-Butanone
Concen: 0.722 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

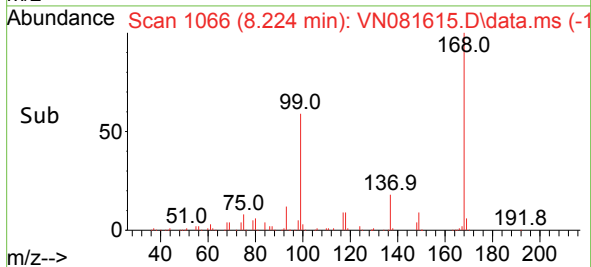
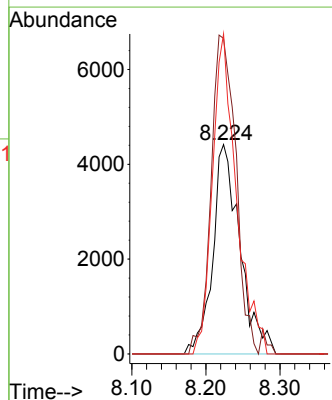
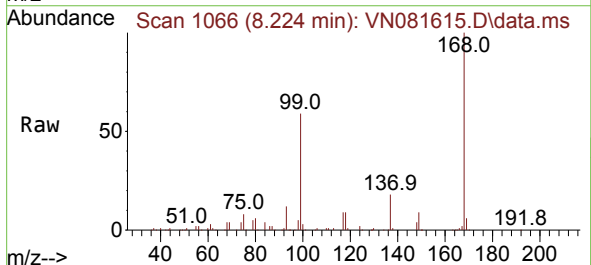
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MSVOA_N
ClientSampleId :
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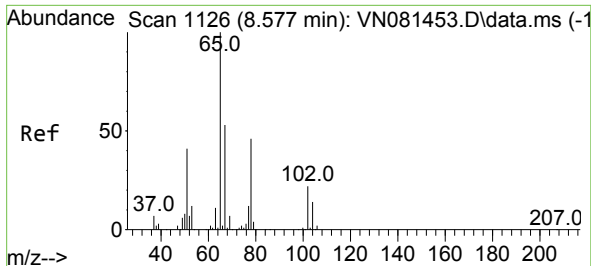
Tgt Ion: 43 Resp: 2031
Ion Ratio Lower Upper
43 100
72 27.5 19.5 29.3



#31
Cyclohexane
Concen: 1.364 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 56 Resp: 11258
Ion Ratio Lower Upper
56 100
69 150.6 20.1 30.1#
84 152.8 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 53.302 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

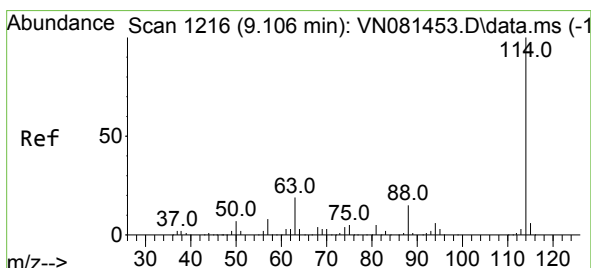
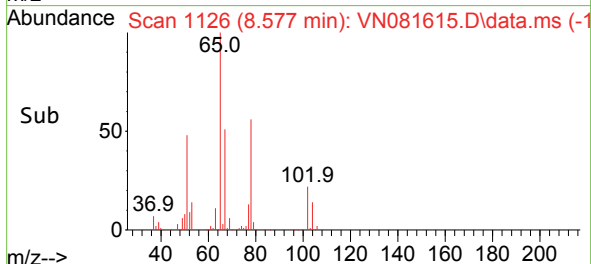
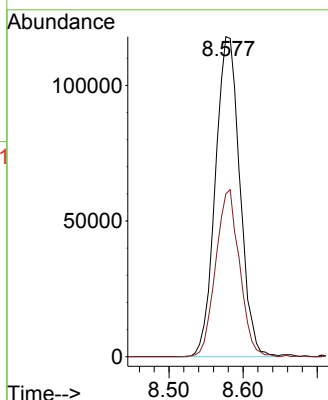
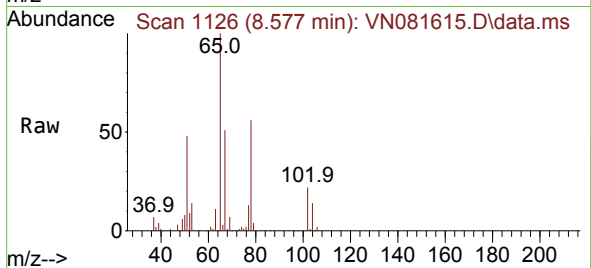
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Tgt Ion: 65 Resp: 270323

Ion Ratio Lower Upper

65 100

67 50.9 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: VN081615.D

Acq: 29 Mar 2024 15:05

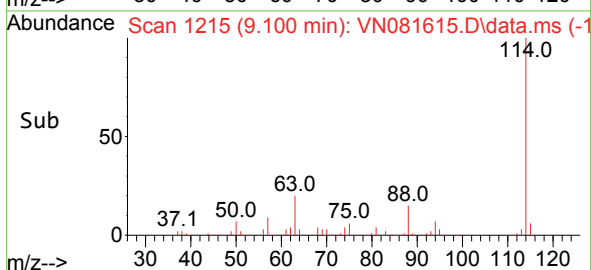
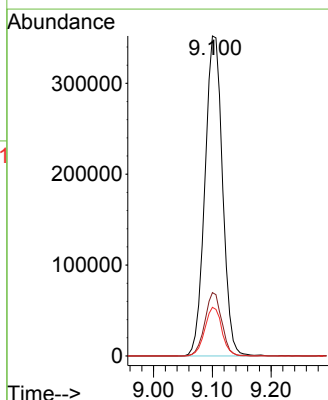
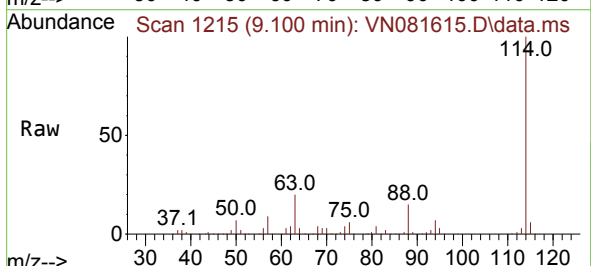
Tgt Ion: 114 Resp: 733143

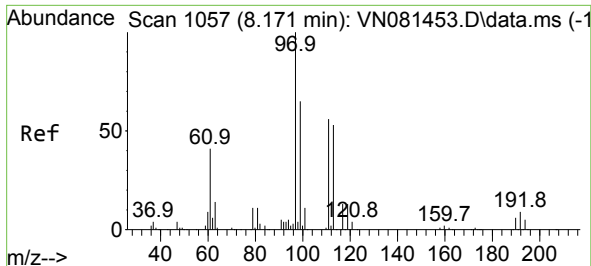
Ion Ratio Lower Upper

114 100

63 19.8 0.0 48.0

88 15.2 0.0 34.8

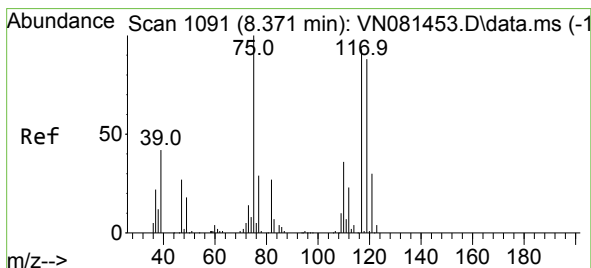
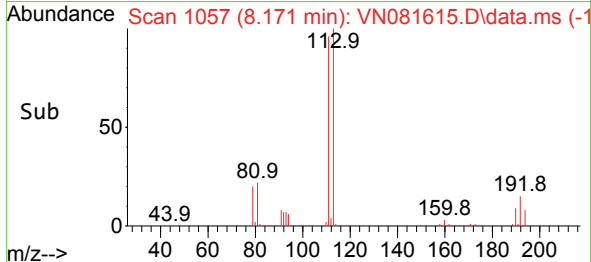
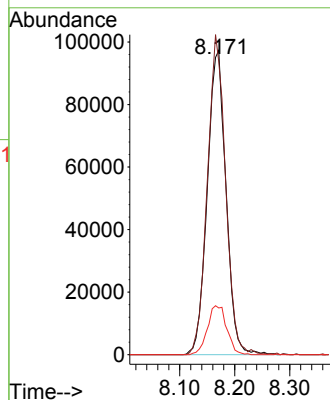
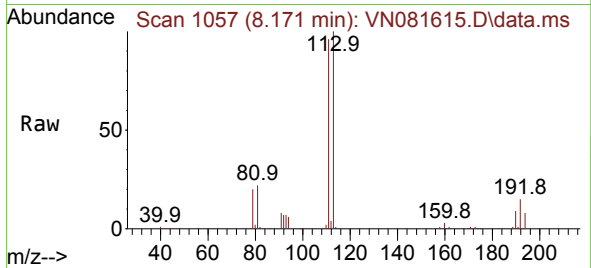




#35
 Dibromofluoromethane
 Concen: 49.804 ug/l
 RT: 8.171 min Scan# 1057
 Delta R.T. 0.000 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

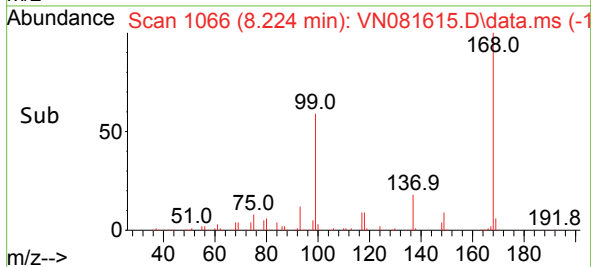
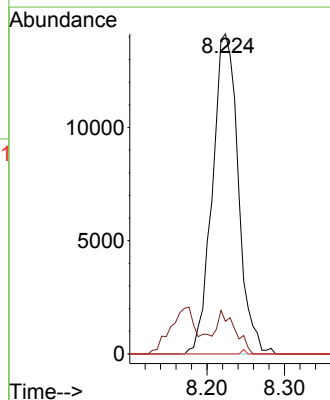
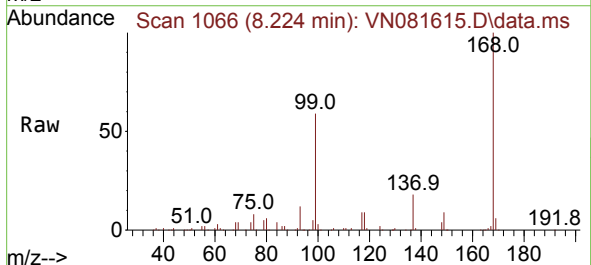
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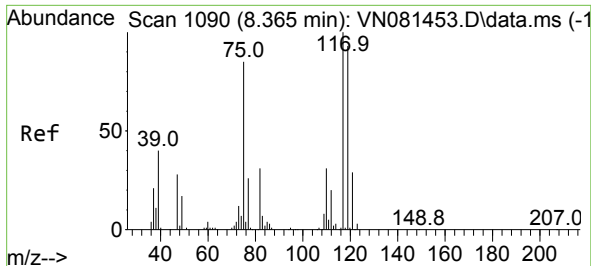
Tgt Ion:113 Resp: 230435
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.2 123.4
 192 16.6 12.5 18.7



#36
 1,1-Dichloropropene
 Concen: 4.213 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

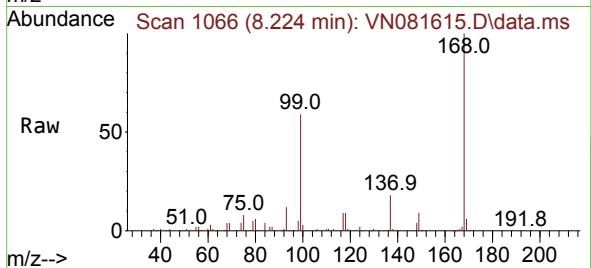
Tgt Ion: 75 Resp: 32806
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.0 48.0#
 77 0.0 25.8 38.6#



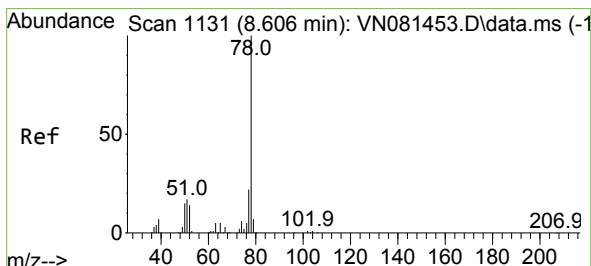
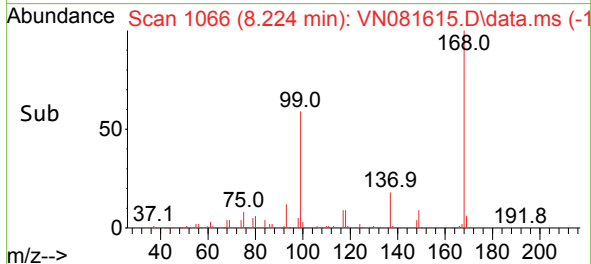
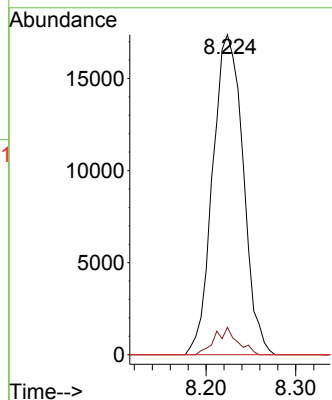


#38
Carbon Tetrachloride
Concen: 4.800 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Instrument :
MSVOA_N
ClientSampleId :
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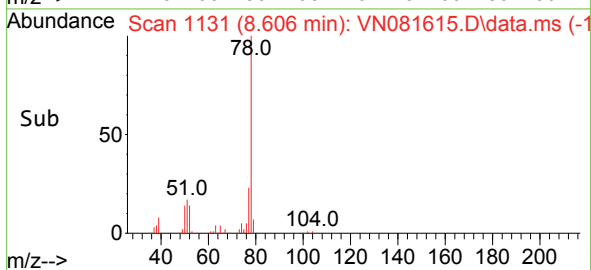
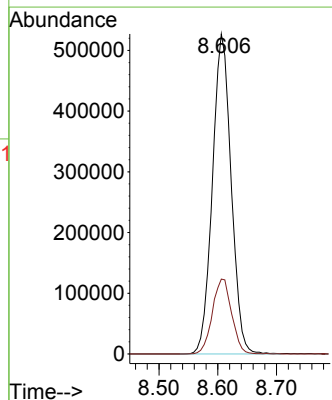
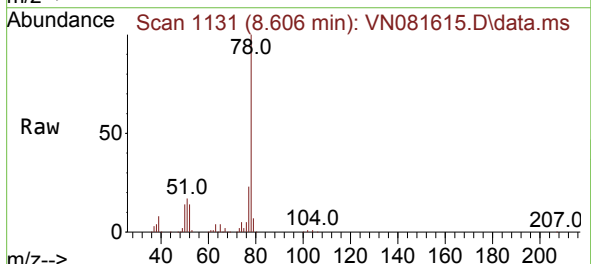


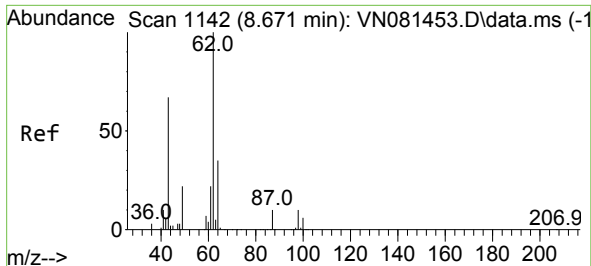
Tgt Ion:117 Resp: 40946
Ion Ratio Lower Upper
117 100
119 8.6 73.4 110.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 51.227 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 78 Resp: 1166158
Ion Ratio Lower Upper
78 100
77 23.4 20.4 30.6





#42

1,2-Dichloroethane

Concen: 1.153 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.065 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

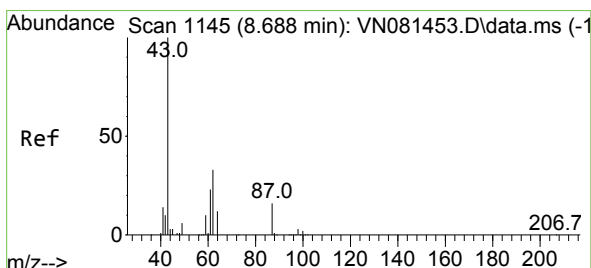
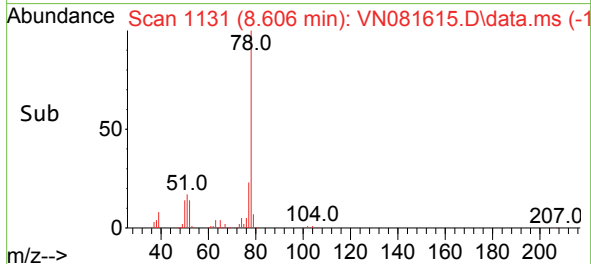
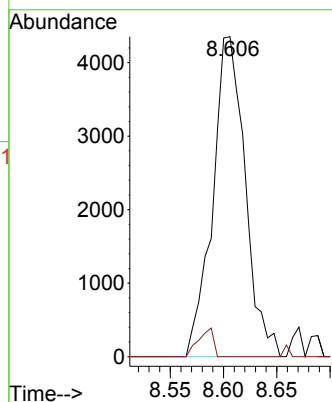
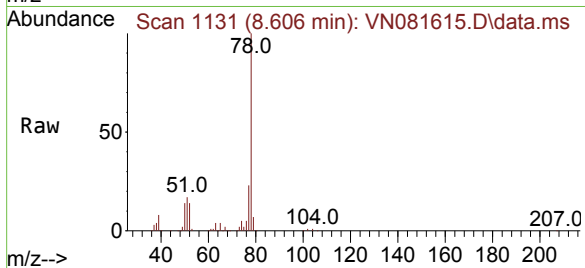
S-19

Tgt Ion: 62 Resp: 9237

Ion Ratio Lower Upper

62 100

98 4.1 0.0 18.0



#43

Isopropyl Acetate

Concen: 0.435 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

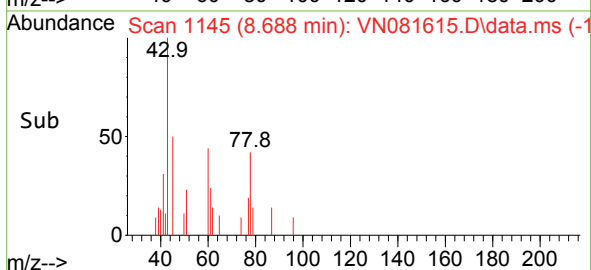
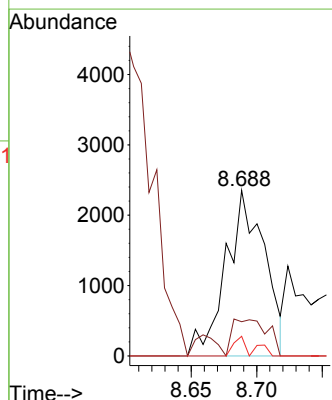
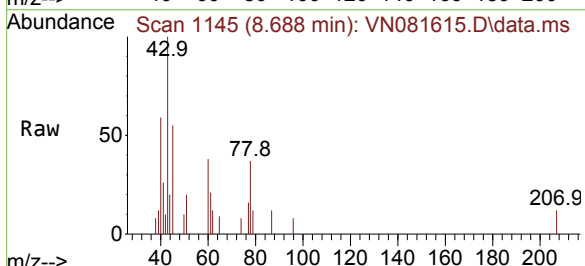
Tgt Ion: 43 Resp: 4813

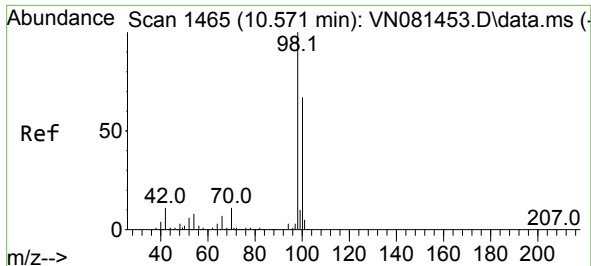
Ion Ratio Lower Upper

43 100

61 20.3 19.9 29.9

87 5.7 9.0 13.6#

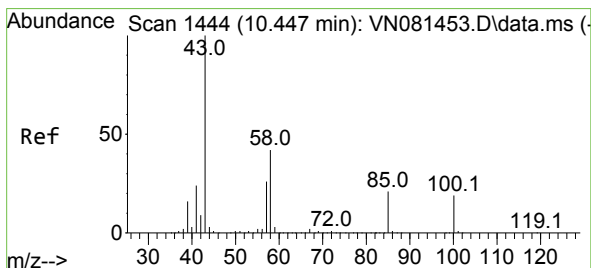
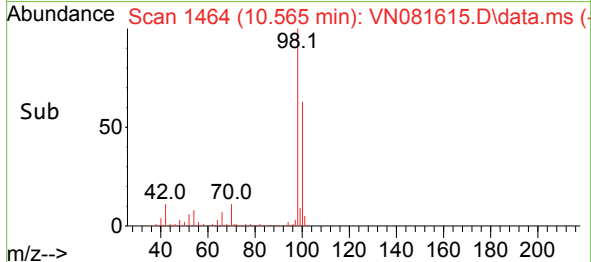
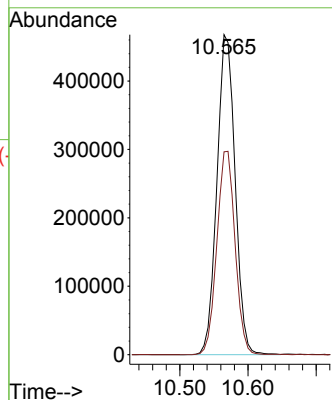
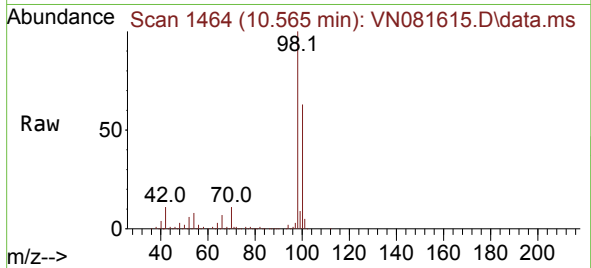




#50
Toluene-d8
Concen: 51.924 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

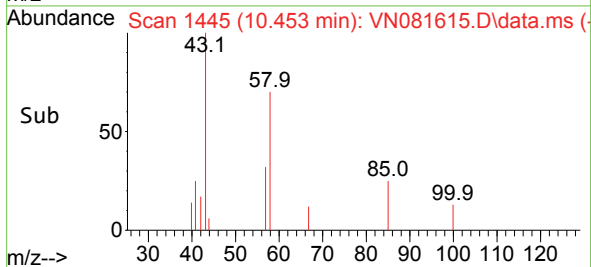
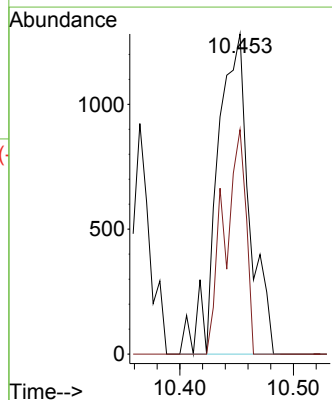
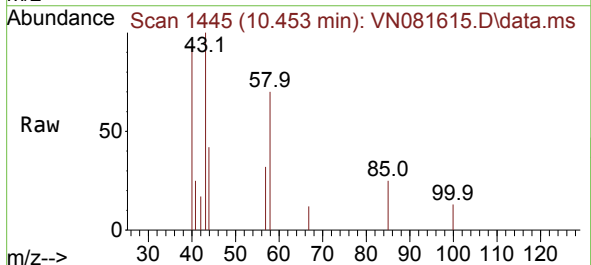
Instrument :
MSVOA_N
ClientSampleId :
S-19

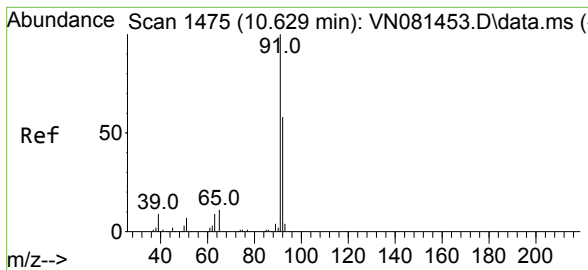
Tgt Ion: 98 Resp: 868466
Ion Ratio Lower Upper
98 100
100 63.8 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.374 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 43 Resp: 2521
Ion Ratio Lower Upper
43 100
58 46.8 29.4 44.0#





#52

Toluene

Concen: 31.365 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

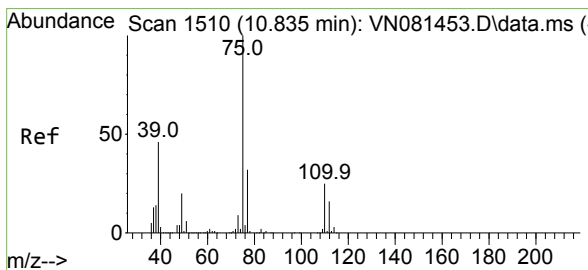
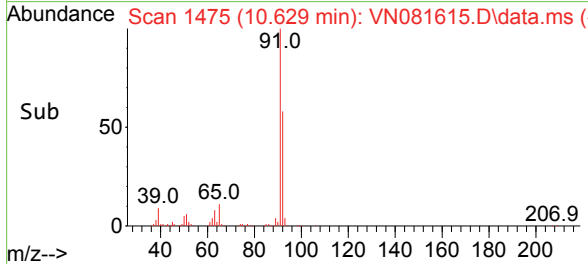
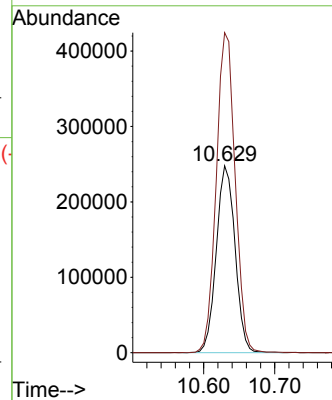
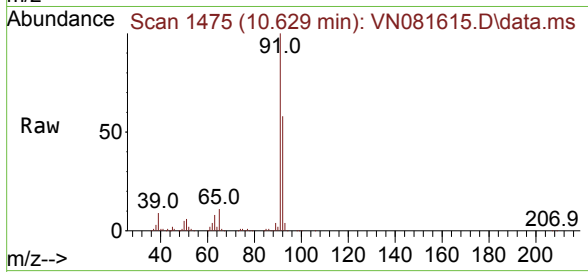
S-19

Tgt Ion: 92 Resp: 453818

Ion Ratio Lower Upper

92 100

91 172.6 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.573 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN081615.D

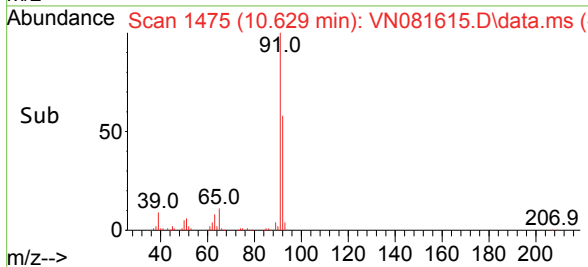
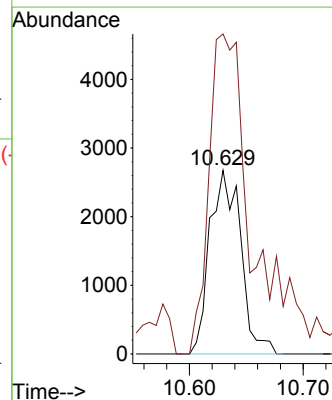
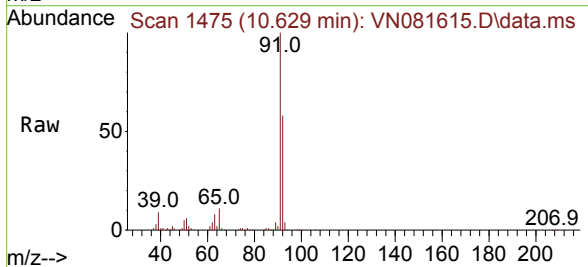
Acq: 29 Mar 2024 15:05

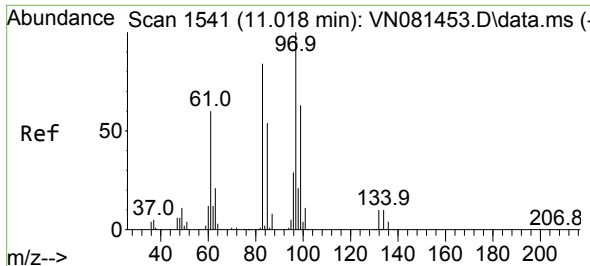
Tgt Ion: 75 Resp: 5066

Ion Ratio Lower Upper

75 100

77 174.3 25.5 38.3#

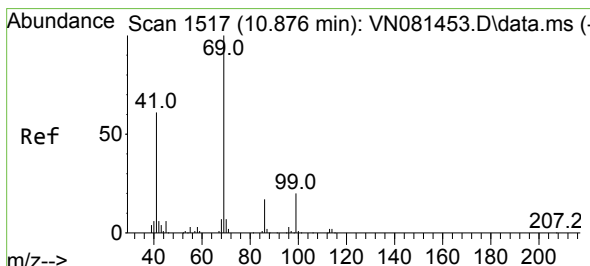
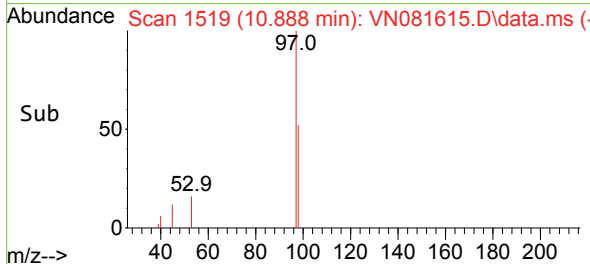
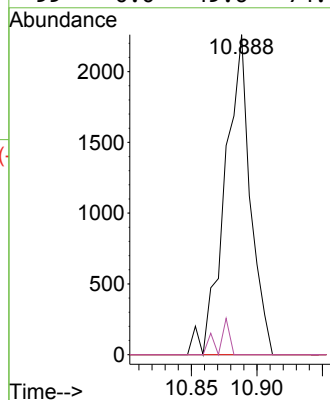
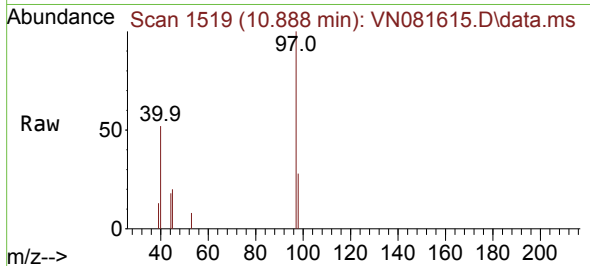




#55
1,1,2-Trichloroethane
Concen: 0.526 ug/l
RT: 10.888 min Scan# 1519
Delta R.T. -0.129 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

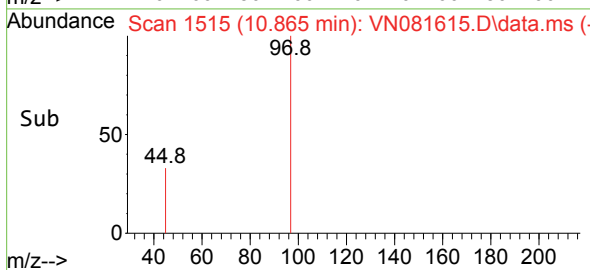
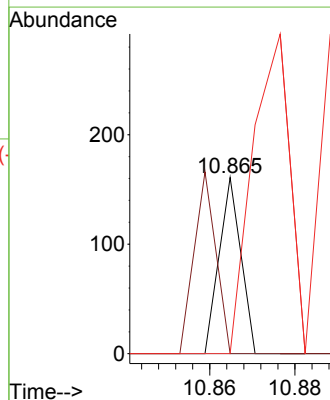
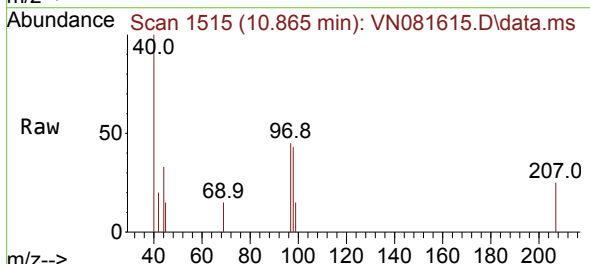
Instrument : MSVOA_N
ClientSampleId : S-19

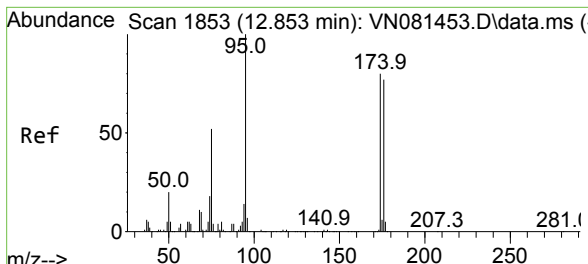
Tgt Ion: 97	Resp:	3064
Ion	Ratio	Lower Upper
97	100	
83	0.0	72.9 109.3#
85	0.0	50.2 75.2#
99	0.0	49.6 74.4#



#56
Ethyl methacrylate
Concen: 0.577 ug/l
RT: 10.865 min Scan# 1515
Delta R.T. -0.011 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 69	Resp:	57
Ion	Ratio	Lower Upper
69	100	
41	0.0	61.0 91.6#
39	0.0	31.8 47.6#

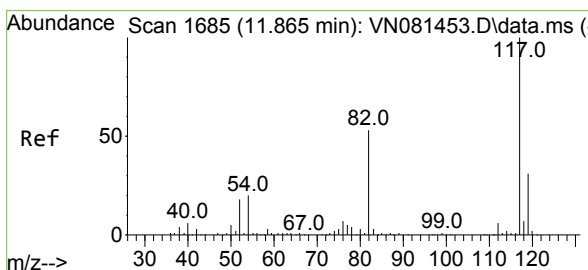
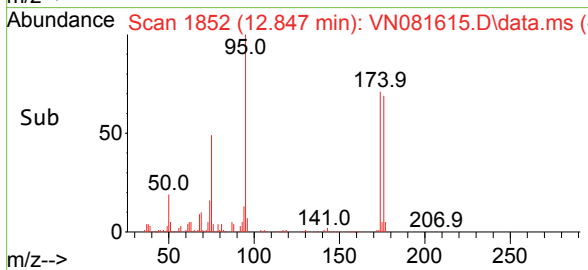
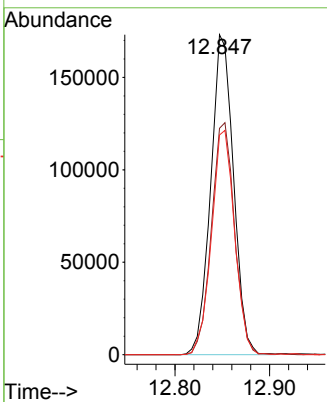
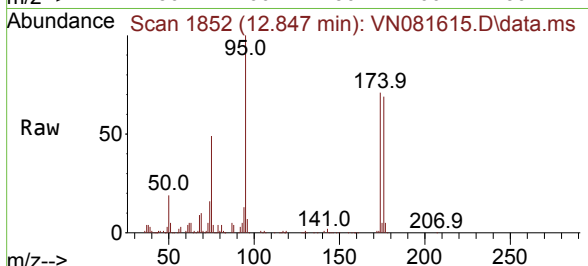




#62
 4-Bromofluorobenzene
 Concen: 49.150 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

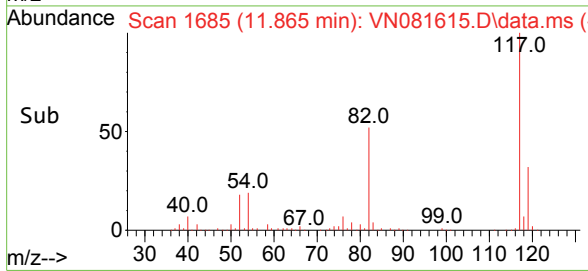
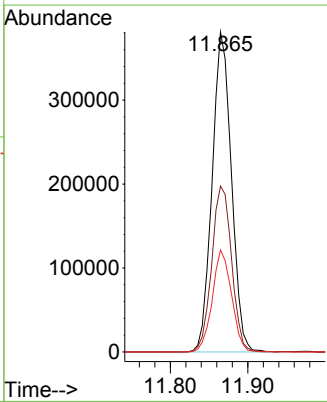
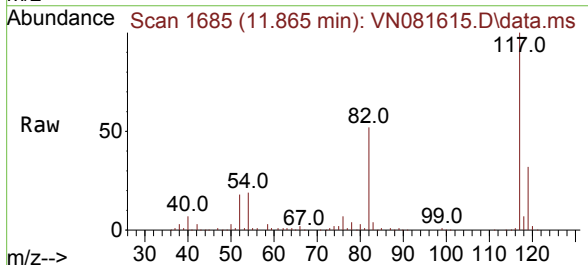
Instrument :
 MSVOA_N
 ClientSampleId :
 S-19

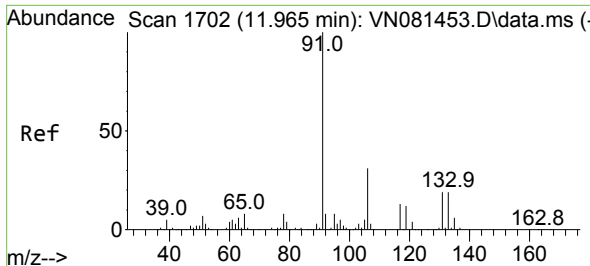
Tgt Ion:	95	Resp:	289663
Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	120.4
176	71.0	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

Tgt Ion:	117	Resp:	658137
Ion	Ratio	Lower	Upper
117	100		
82	51.8	52.7	79.1#
119	31.9	25.3	37.9

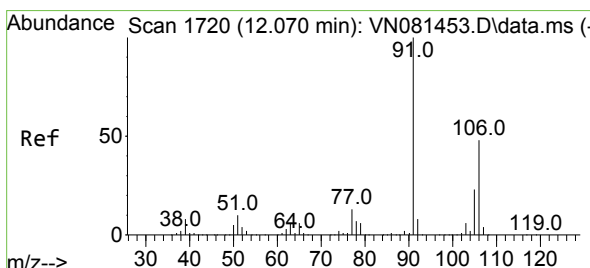
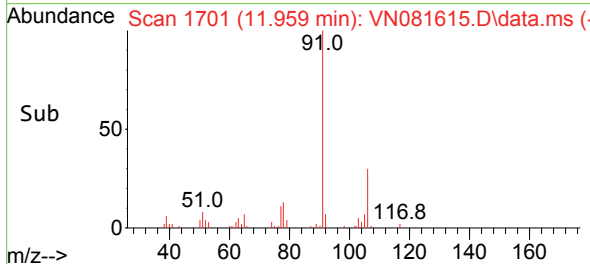
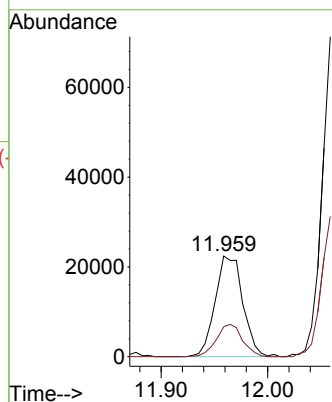
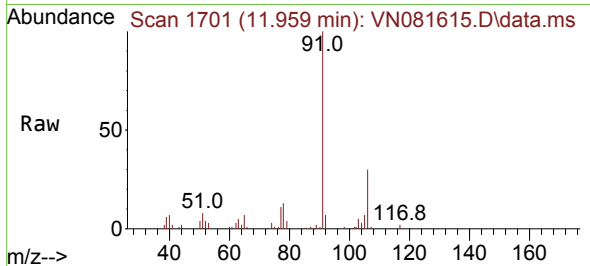




#67
Ethyl Benzene
Concen: 1.498 ug/l
RT: 11.959 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

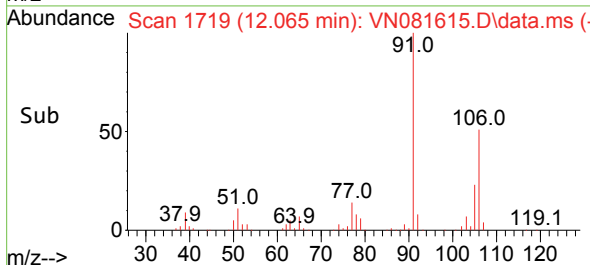
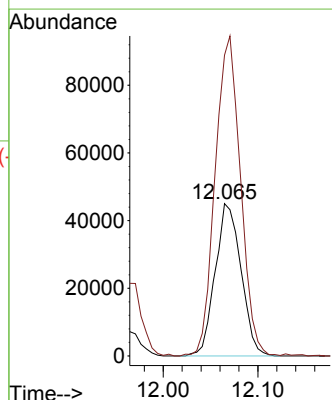
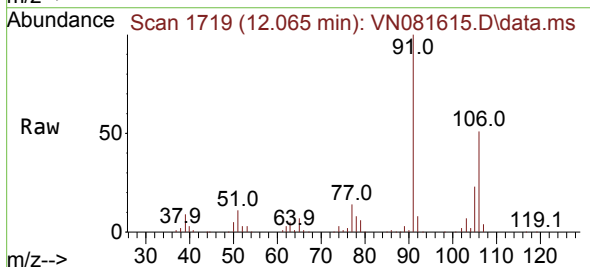
Instrument :
MSVOA_N
ClientSampleId :
S-19

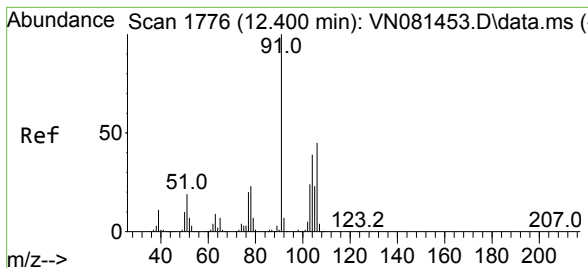
Tgt Ion: 91 Resp: 40476
Ion Ratio Lower Upper
91 100
106 29.8 23.8 35.6



#68
m/p-Xylenes
Concen: 8.433 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion: 106 Resp: 85444
Ion Ratio Lower Upper
106 100
91 205.9 169.0 253.6

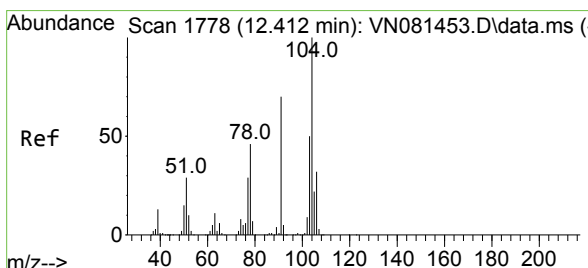
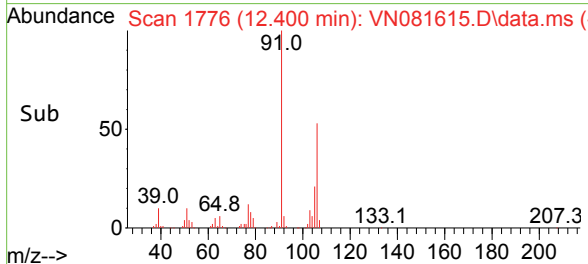
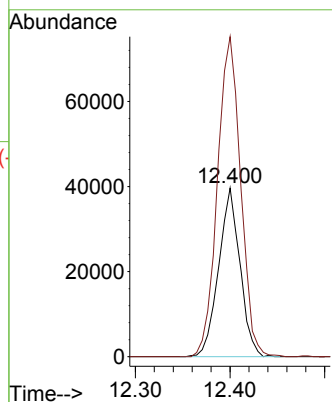
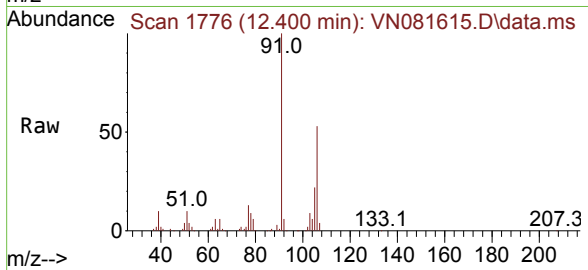




#69
o-Xylene
Concen: 6.251 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

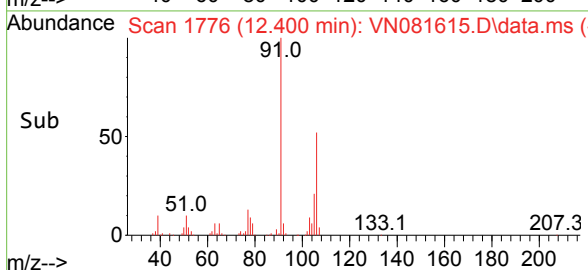
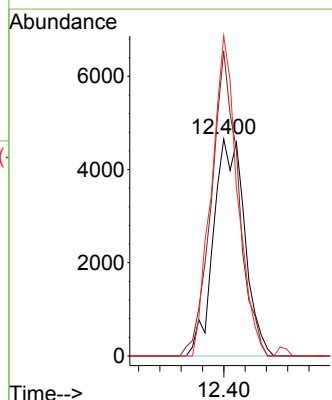
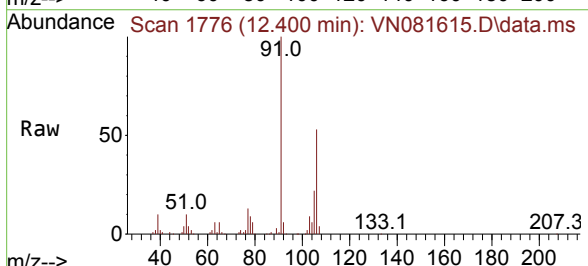
Instrument :
MSVOA_N
ClientSampleId :
S-19

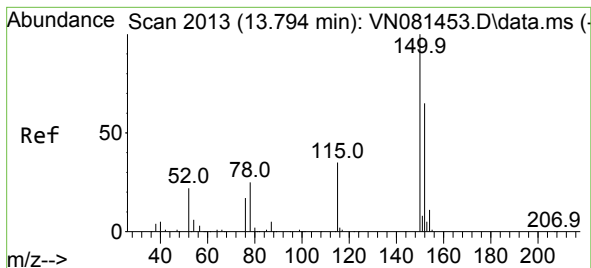
Tgt Ion:106 Resp: 62173
Ion Ratio Lower Upper
106 100
91 206.2 112.1 336.3



#70
Styrene
Concen: 0.591 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.012 min
Lab File: VN081615.D
Acq: 29 Mar 2024 15:05

Tgt Ion:104 Resp: 9481
Ion Ratio Lower Upper
104 100
78 121.4 43.8 65.8#
103 123.1 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

S-19

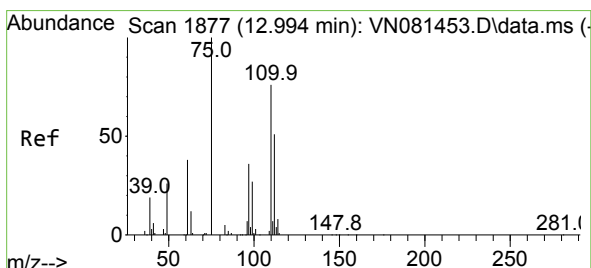
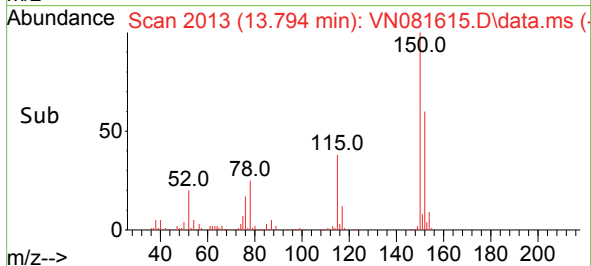
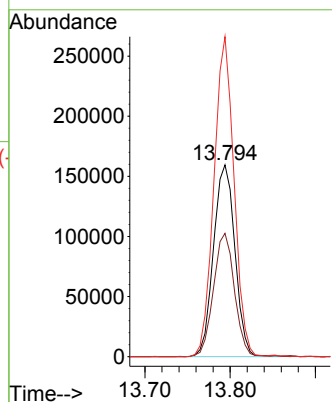
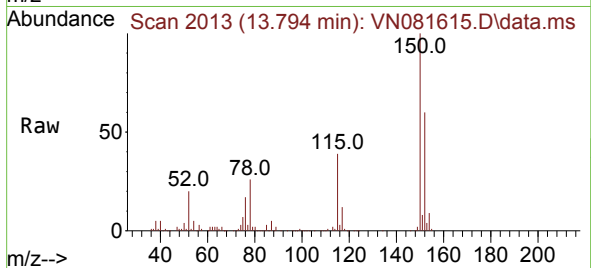
Tgt Ion:152 Resp: 278251

Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 156.4 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 22.496 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081615.D

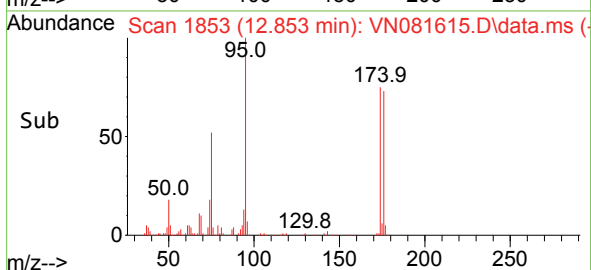
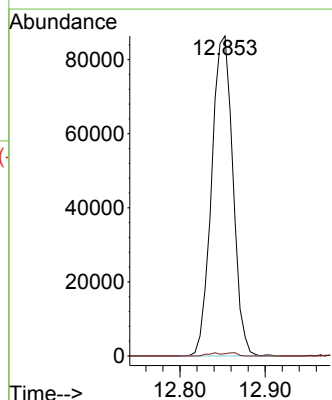
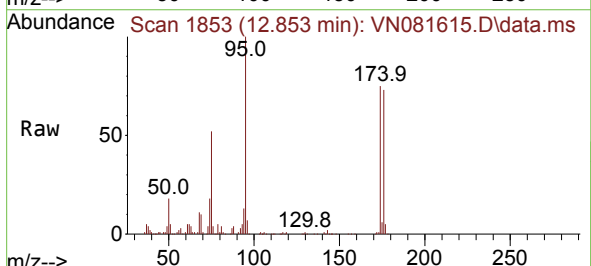
Acq: 29 Mar 2024 15:05

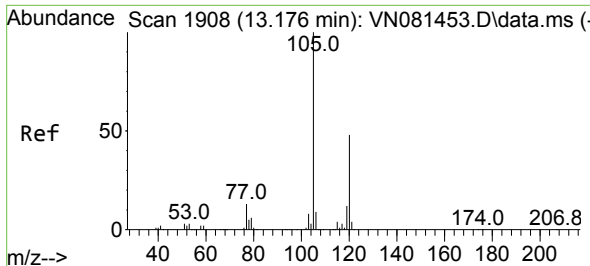
Tgt Ion: 75 Resp: 149728

Ion Ratio Lower Upper

75 100

77 0.5 91.0 272.8#

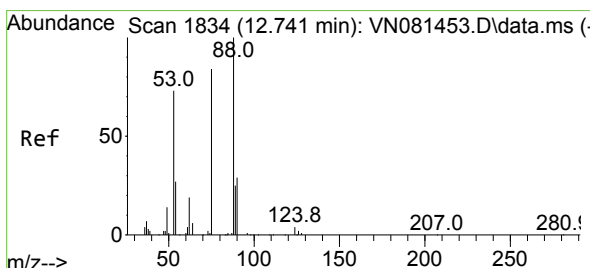
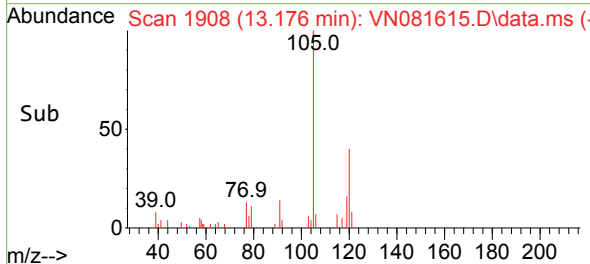
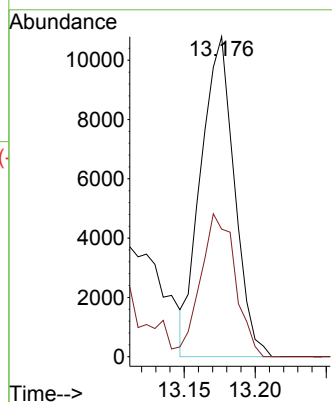
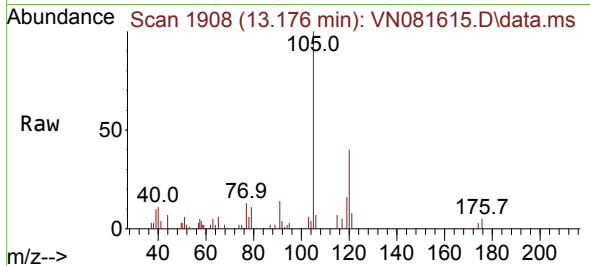




#80
 1,3,5-Trimethylbenzene
 Concen: 0.903 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

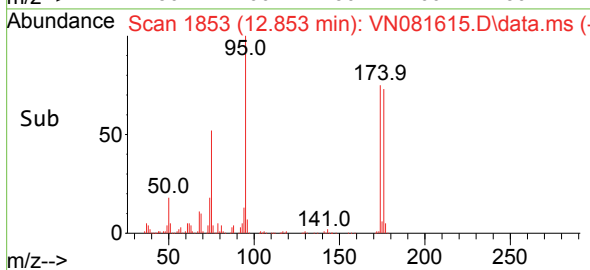
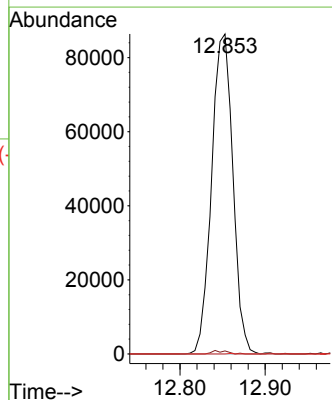
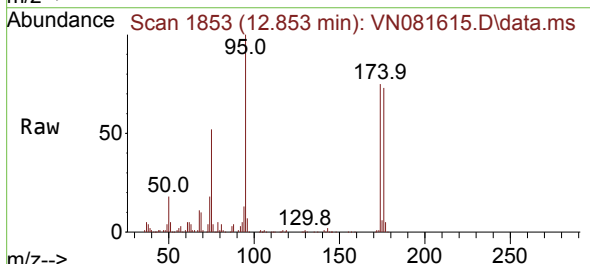
Instrument :
 MSVOA_N
 ClientSampleId :
 S-19

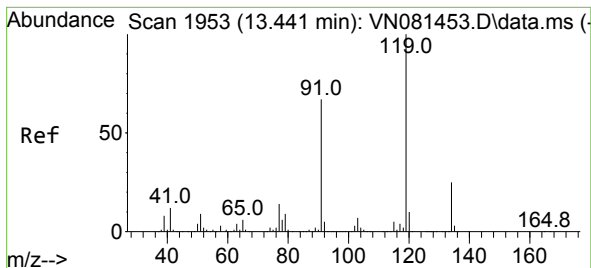
Tgt Ion:105 Resp: 17682
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.0 69.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.790 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN081615.D
 Acq: 29 Mar 2024 15:05

Tgt Ion: 75 Resp: 149728
 Ion Ratio Lower Upper
 75 100
 53 0.7 71.4 107.2#
 89 0.0 33.4 50.0#





#83

tert-Butylbenzene

Concen: 0.405 ug/l

RT: 13.488 min Scan# 1953

Delta R.T. 0.047 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

S-19

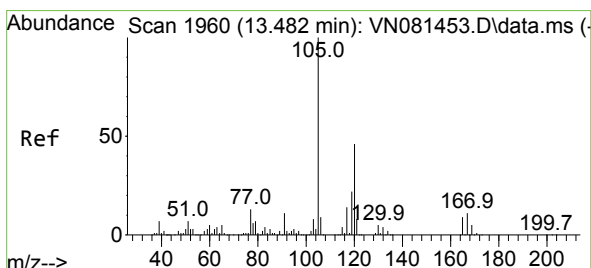
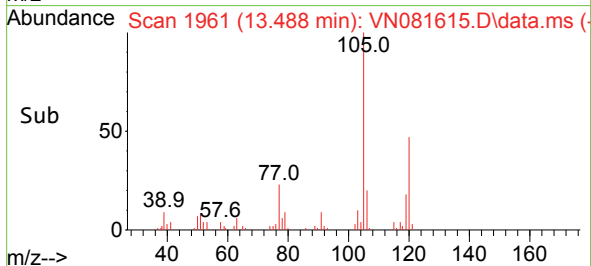
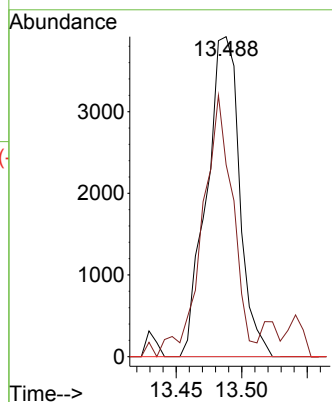
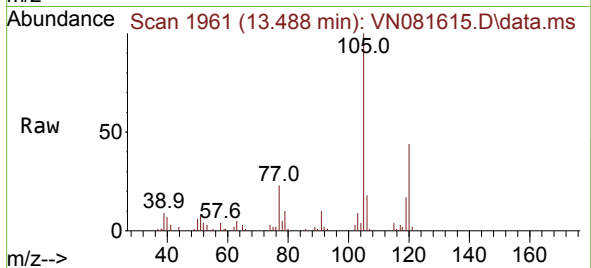
Tgt Ion:119 Resp: 6850

Ion Ratio Lower Upper

119 100

91 76.7 36.8 110.4

134 0.0 12.4 37.4#



#84

1,2,4-Trimethylbenzene

Concen: 2.472 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN081615.D

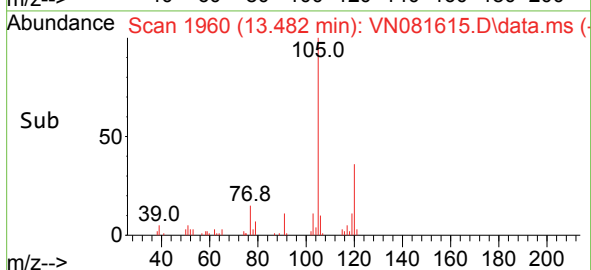
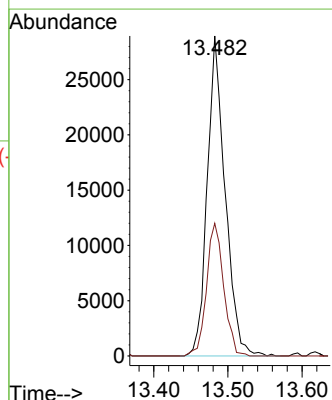
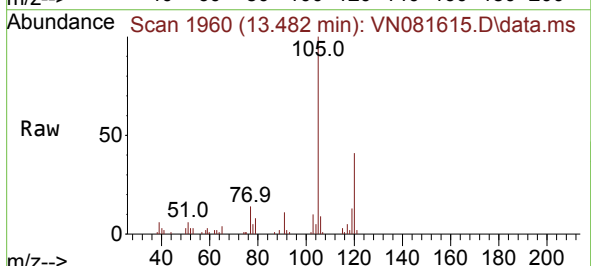
Acq: 29 Mar 2024 15:05

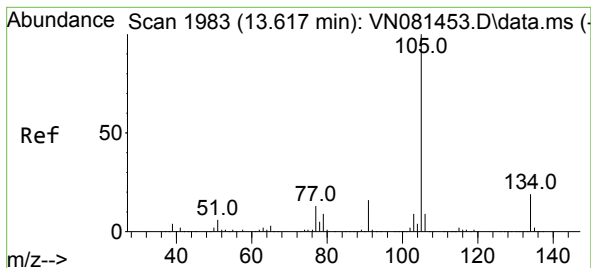
Tgt Ion:105 Resp: 48664

Ion Ratio Lower Upper

105 100

120 39.8 20.9 62.7





#85

sec-Butylbenzene

Concen: 2.015 ug/l

RT: 13.482 min Scan# 1983

Delta R.T. -0.135 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

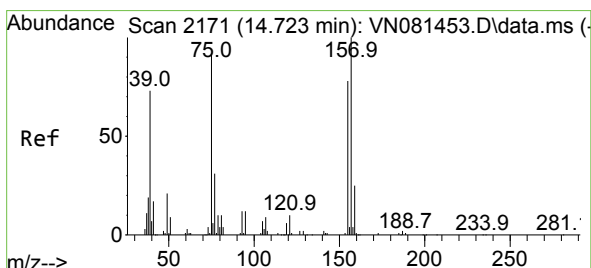
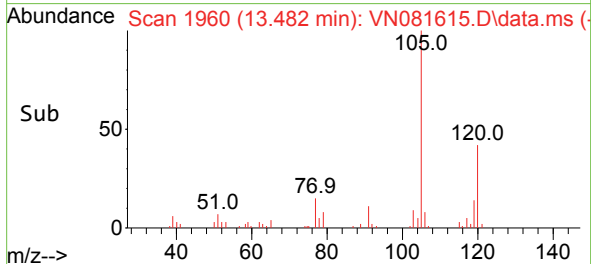
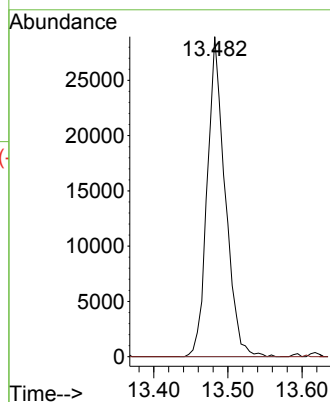
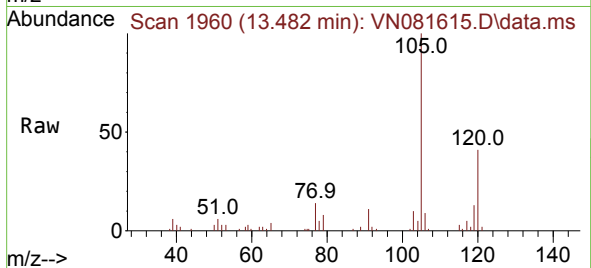
S-19

Tgt Ion:105 Resp: 48664

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.231 ug/l

RT: 14.529 min Scan# 2138

Delta R.T. -0.194 min

Lab File: VN081615.D

Acq: 29 Mar 2024 15:05

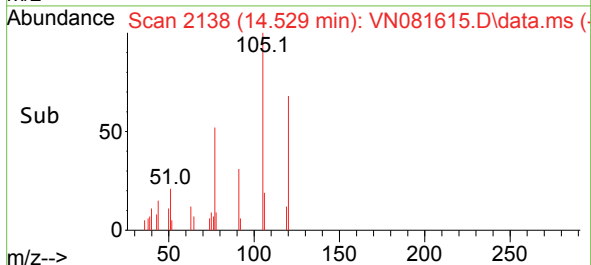
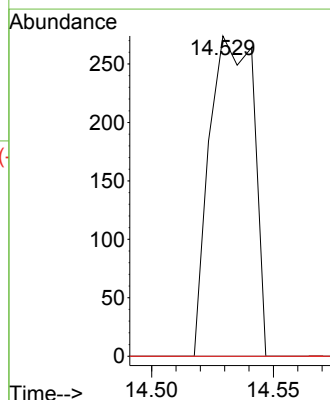
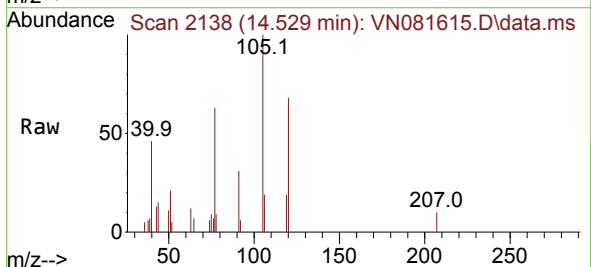
Tgt Ion: 75 Resp: 343

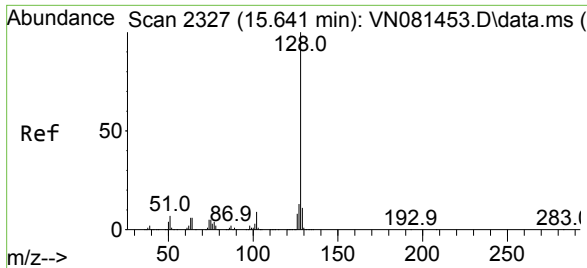
Ion Ratio Lower Upper

75 100

155 0.0 31.8 95.4#

157 0.0 41.1 123.4#





#95

Naphthalene

Concen: 28.699 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN081615.D

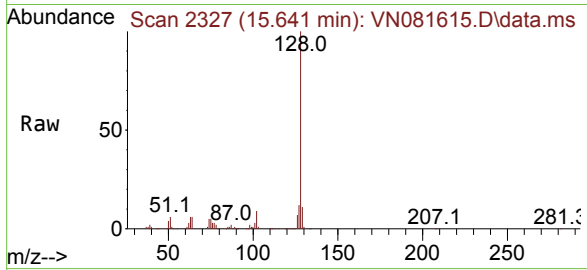
Acq: 29 Mar 2024 15:05

Instrument :

MSVOA_N

ClientSampleId :

S-19



Tgt Ion:128 Resp: 557111

Ion Ratio Lower Upper

128 100

127 13.2 10.0 15.0

129 11.0 8.7 13.1

