

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032924\
 Data File : VN081621.D
 Acq On : 29 Mar 2024 17:29
 Operator : JC\MD
 Sample : P1921-07 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-22

Quant Time: Mar 30 00:32:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

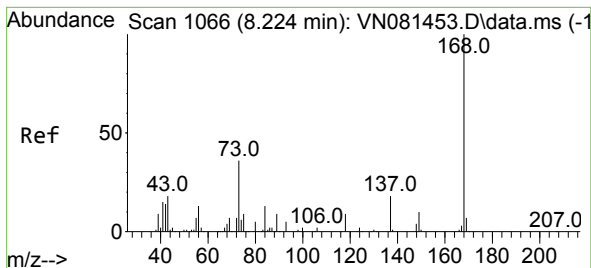
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	379119	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	694924	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	628027	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	254916	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	262481	54.290	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.580%			
35) Dibromofluoromethane	8.165	113	220811	50.348	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	10.571	98	835350	52.691	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.380%			
62) 4-Bromofluorobenzene	12.853	95	272340	48.752	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 97.500%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.512	59	434	0.515	ug/l #	72
13) Acrolein	4.195	56	402	0.532	ug/l #	39
16) Acetone	4.442	43	2012	1.288	ug/l #	69
31) Cyclohexane	8.230	56	8914	1.133	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	32284	4.374	ug/l #	51
38) Carbon Tetrachloride	8.224	117	40784	5.044	ug/l #	20
40) Benzene	8.606	78	423013	19.604	ug/l	98
42) 1,2-Dichloroethane	8.600	62	4181	0.551	ug/l	100
43) Isopropyl Acetate	8.683	43	3272	0.312	ug/l #	64
48) Methyl methacrylate	9.735	41	2802	0.580	ug/l #	48
49) 1,4-Dioxane	9.559	88	74	0.637	ug/l #	18
52) Toluene	10.630	92	178580	13.021	ug/l	99
53) t-1,3-Dichloropropene	10.630	75	2163	0.258	ug/l #	1
55) 1,1,2-Trichloroethane	10.888	97	1368	0.248	ug/l #	13
56) Ethyl methacrylate	10.888	69	149	0.590	ug/l #	20
59) 2-Hexanone	11.194	43	1646	0.348	ug/l #	57
67) Ethyl Benzene	11.965	91	15146	0.587	ug/l #	80
68) m/p-Xylenes	12.071	106	29236	3.024	ug/l	90
69) o-Xylene	12.394	106	20240	2.132	ug/l	84
70) Styrene	12.406	104	3988	0.261	ug/l #	26
76) 1,2,3-Trichloropropane	12.847	75	137526	22.554	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.171	105	5358	0.299	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.847	75	137526	60.947	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.482	105	12078	0.670	ug/l	99
85) sec-Butylbenzene	13.482	105	12078	0.546	ug/l #	60
95) Naphthalene	15.641	128	179741	10.107	ug/l	100

(#) = 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: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

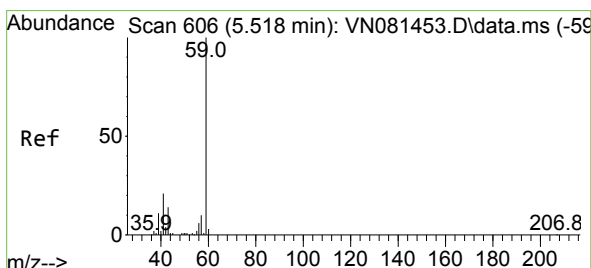
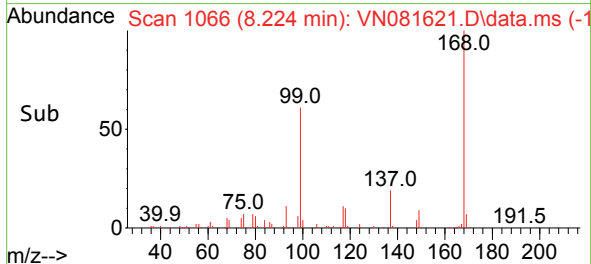
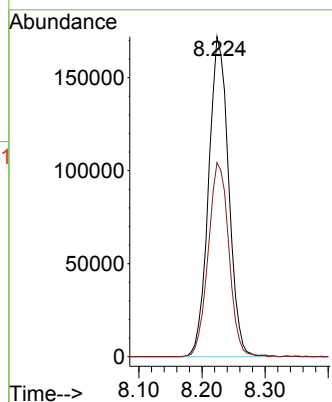
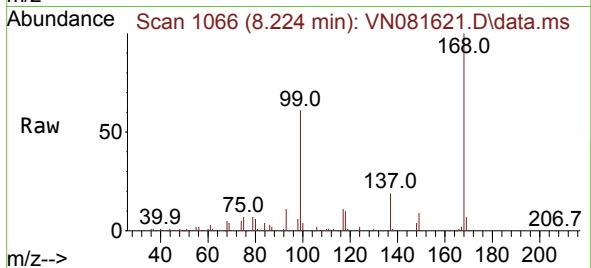
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Tgt Ion:168 Resp: 379119

Ion Ratio Lower Upper

168 100

99 60.6 59.9 89.9



#11

Tert butyl alcohol

Concen: 0.515 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN081621.D

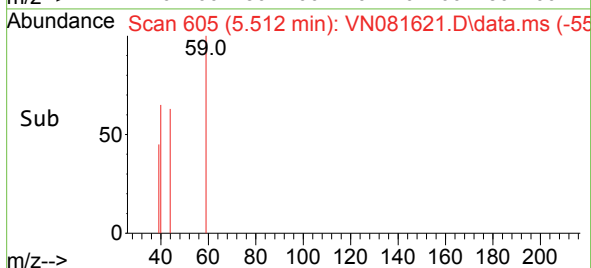
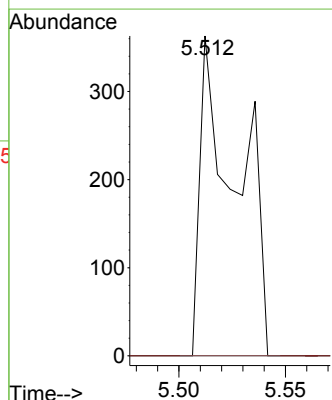
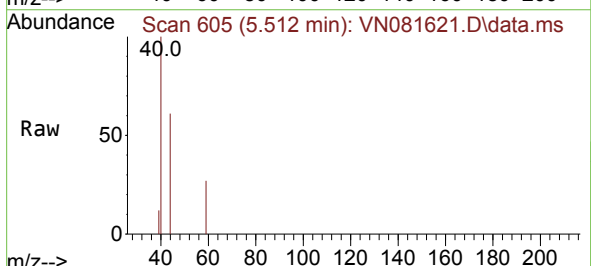
Acq: 29 Mar 2024 17:29

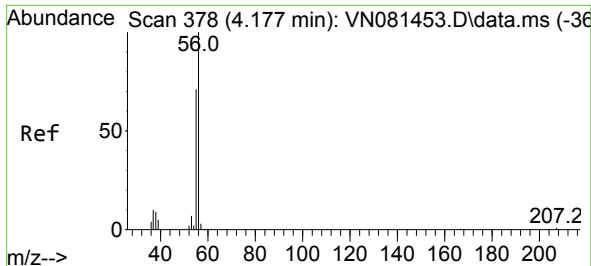
Tgt Ion: 59 Resp: 434

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

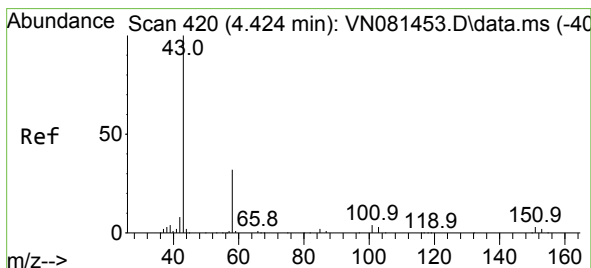
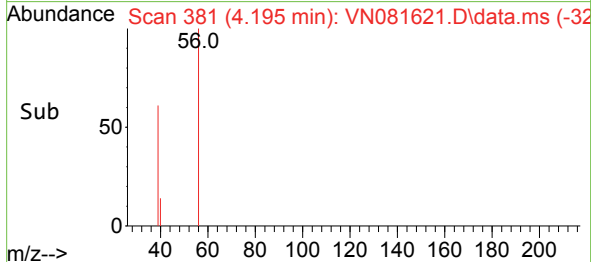
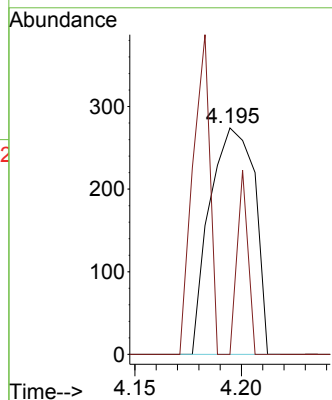
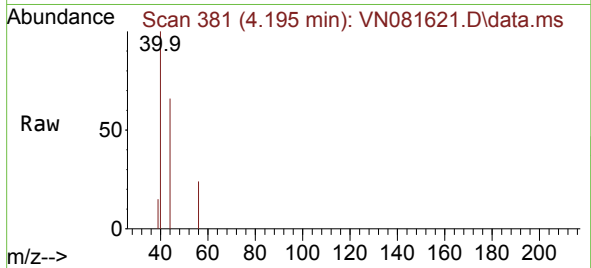




#13
Acrolein
Concen: 0.532 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

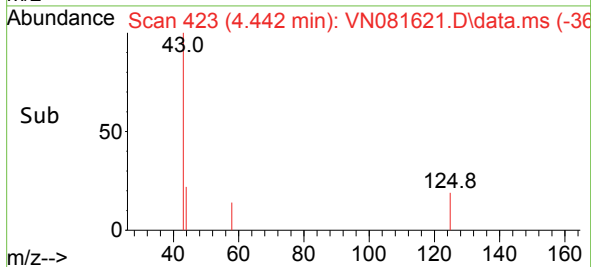
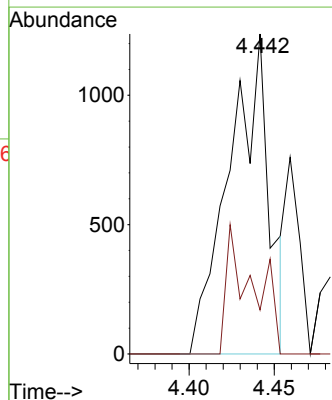
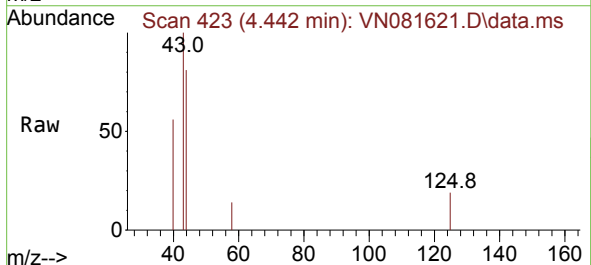
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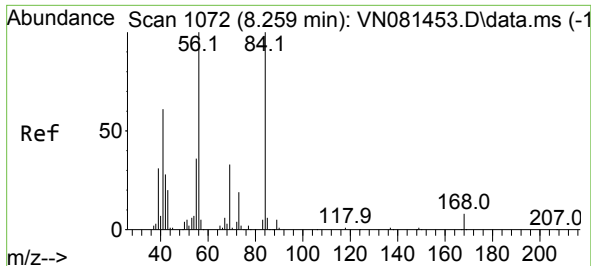
Tgt Ion: 56 Resp: 402
Ion Ratio Lower Upper
56 100
55 19.7 55.3 82.9#



#16
Acetone
Concen: 1.288 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 43 Resp: 2012
Ion Ratio Lower Upper
43 100
58 13.7 24.8 37.2#

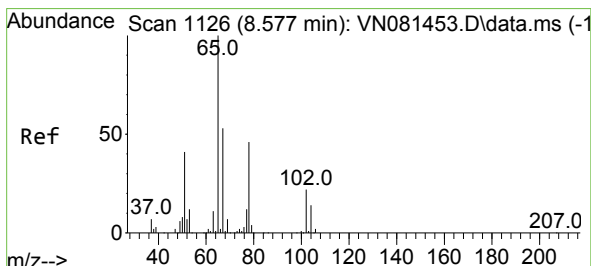
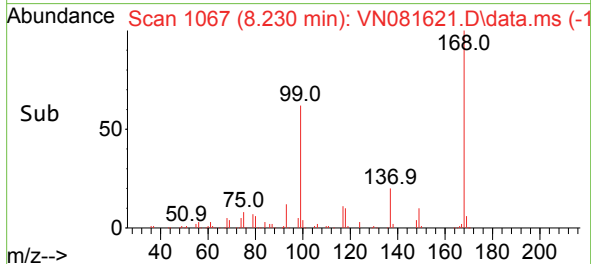
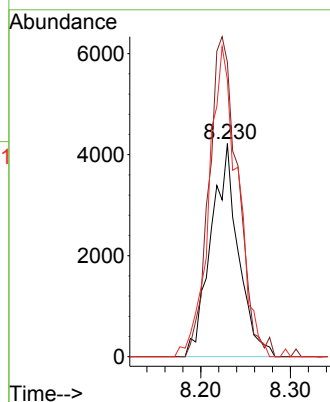
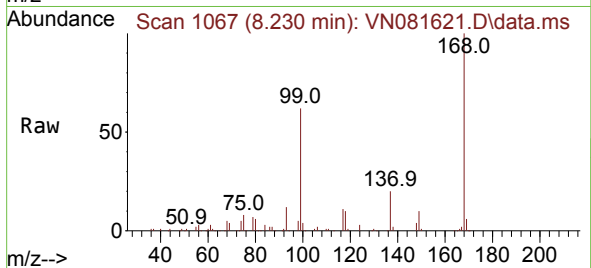




#31
Cyclohexane
Concen: 1.133 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

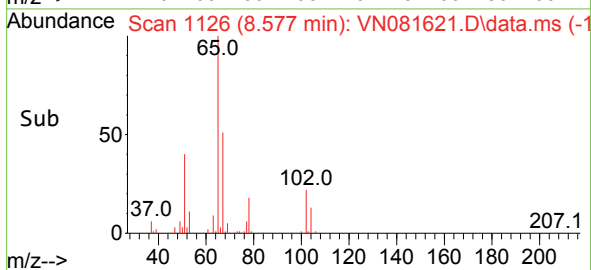
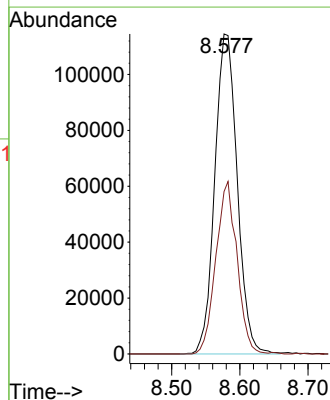
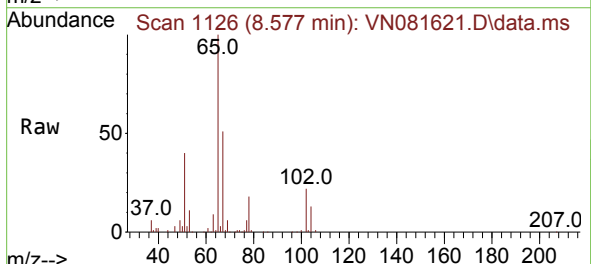
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ClientSampleId :
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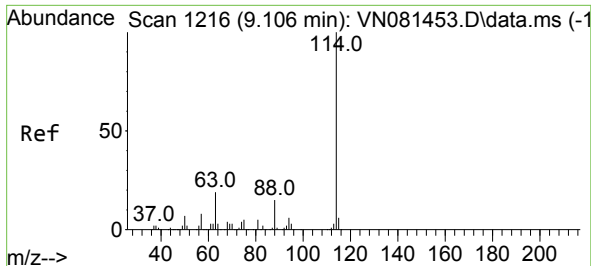
Tgt Ion: 56 Resp: 8914
Ion Ratio Lower Upper
56 100
69 138.1 20.1 30.1#
84 129.9 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 54.290 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 65 Resp: 262481
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.4

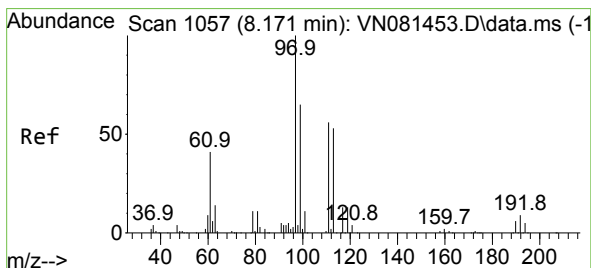
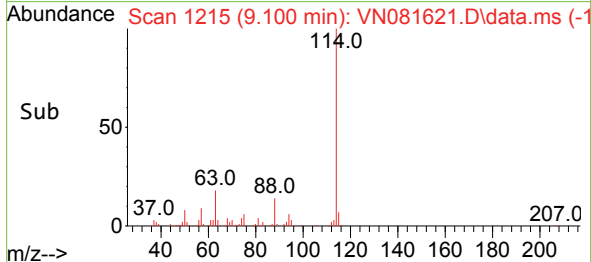
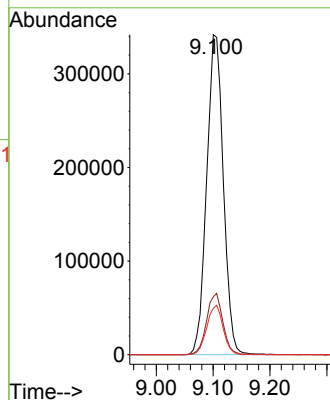
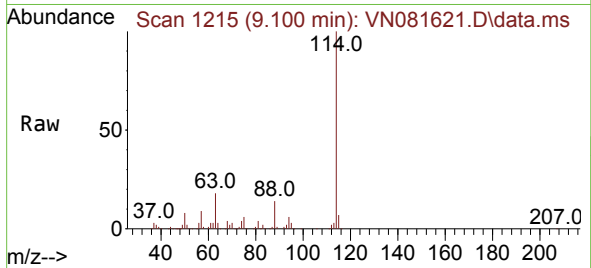




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

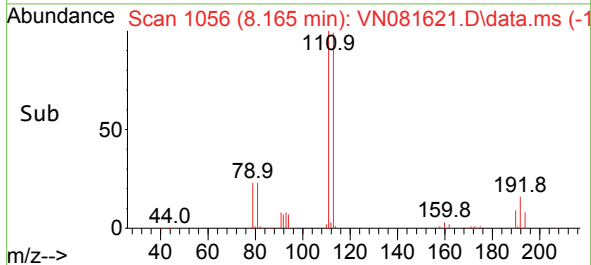
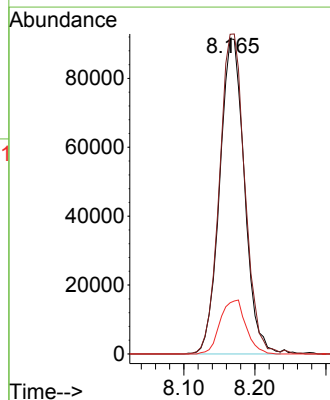
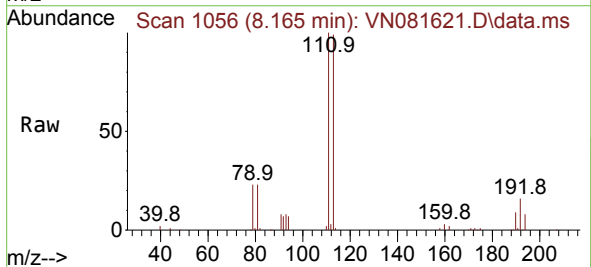
Instrument :
MSVOA_N
ClientSampleId :
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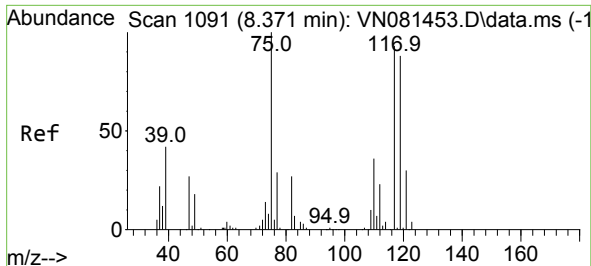
Tgt Ion:114 Resp: 694924
Ion Ratio Lower Upper
114 100
63 18.1 0.0 48.0
88 14.5 0.0 34.8



#35
Dibromofluoromethane
Concen: 50.348 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion:113 Resp: 220811
Ion Ratio Lower Upper
113 100
111 103.9 82.2 123.4
192 17.7 12.5 18.7

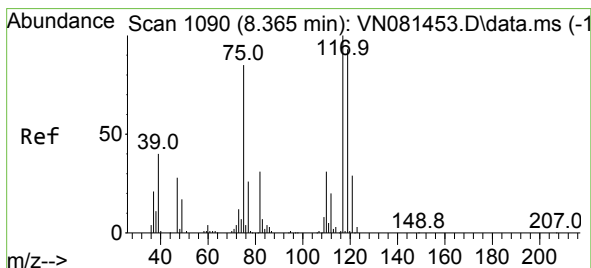
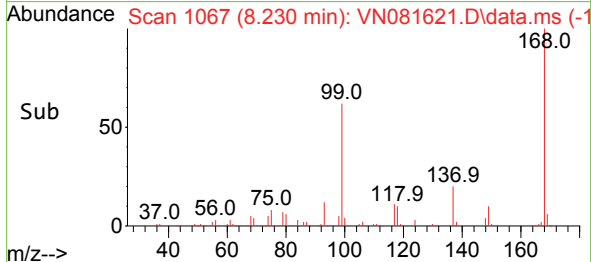
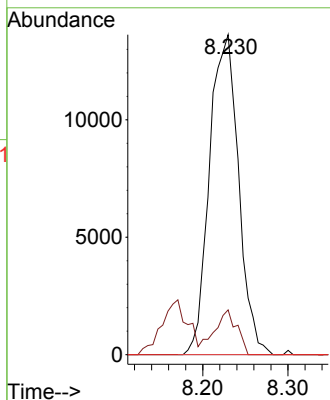
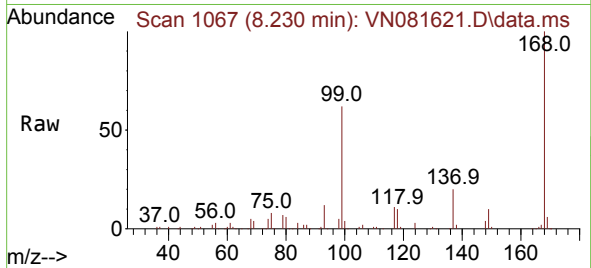




#36
1,1-Dichloropropene
Concen: 4.374 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

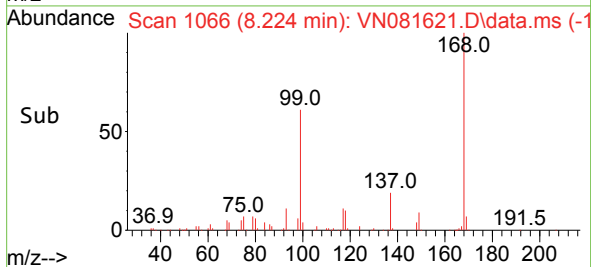
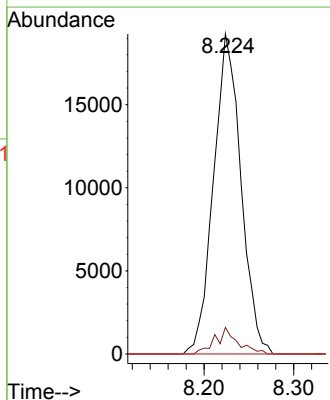
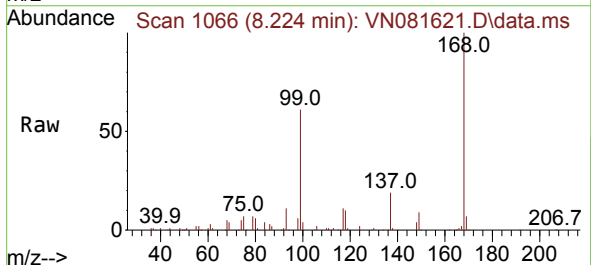
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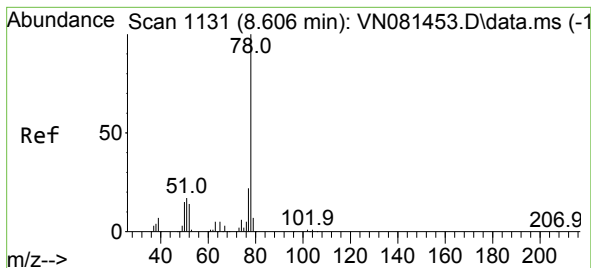
Tgt Ion: 75 Resp: 32284
Ion Ratio Lower Upper
75 100
110 9.5 16.0 48.0#
77 0.0 25.8 38.6#



#38
Carbon Tetrachloride
Concen: 5.044 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 117 Resp: 40784
Ion Ratio Lower Upper
117 100
119 8.3 73.4 110.2#
121 0.0 24.4 36.6#





#40

Benzene

Concen: 19.604 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

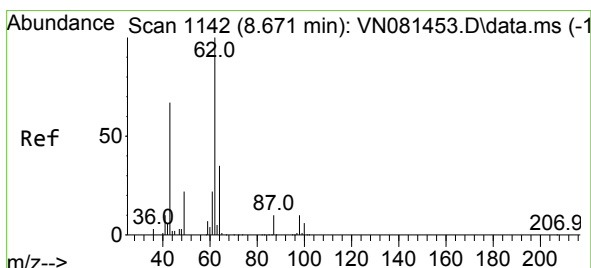
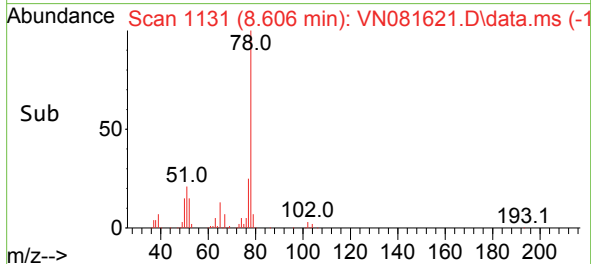
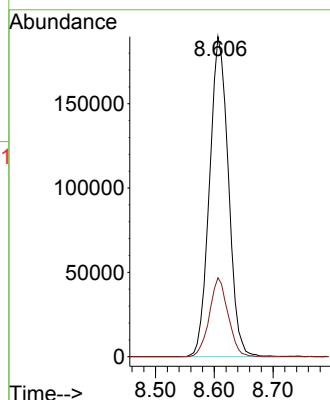
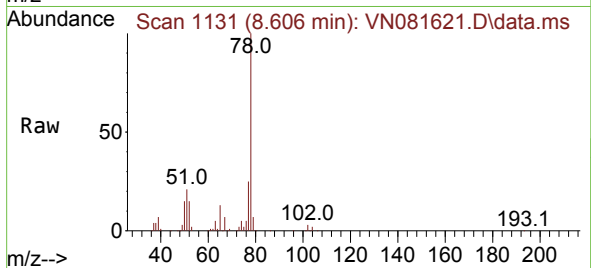
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Tgt Ion: 78 Resp: 423013

Ion Ratio Lower Upper

78 100

77 24.7 20.4 30.6



#42

1,2-Dichloroethane

Concen: 0.551 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.070 min

Lab File: VN081621.D

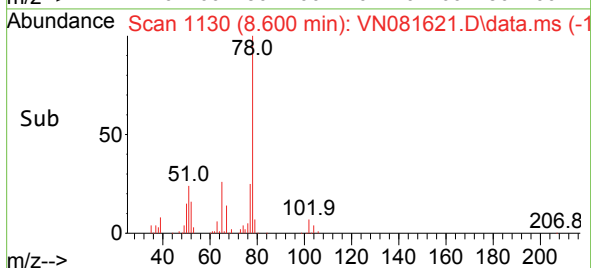
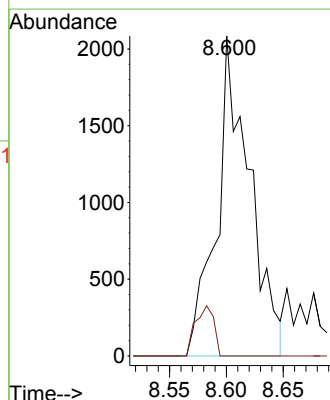
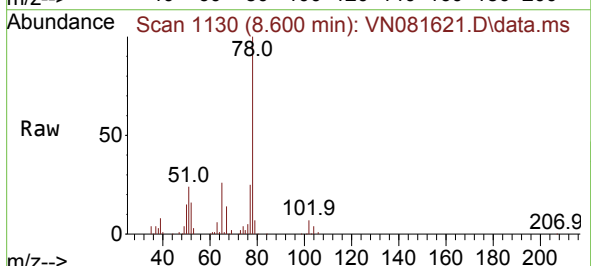
Acq: 29 Mar 2024 17:29

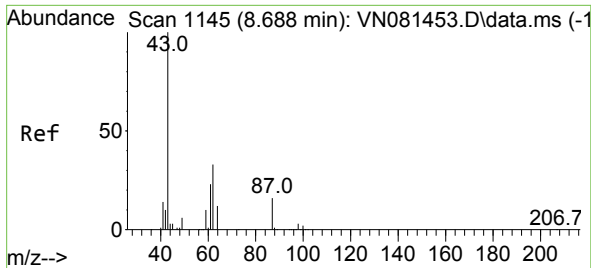
Tgt Ion: 62 Resp: 4181

Ion Ratio Lower Upper

62 100

98 8.8 0.0 18.0

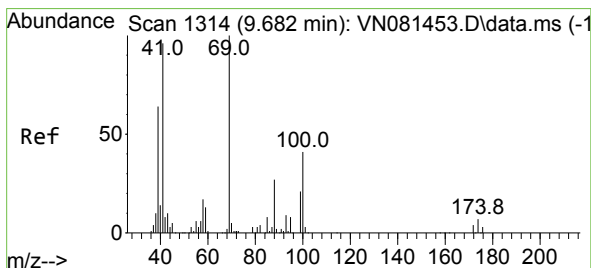
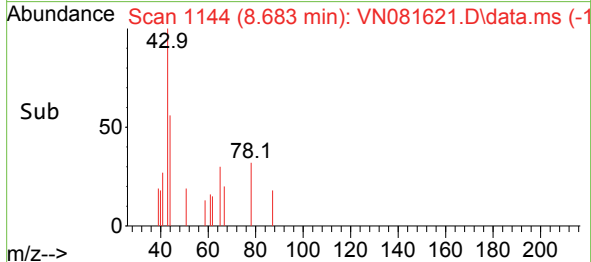
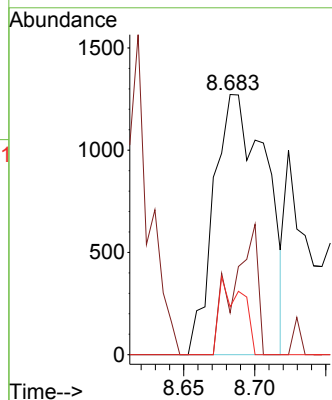
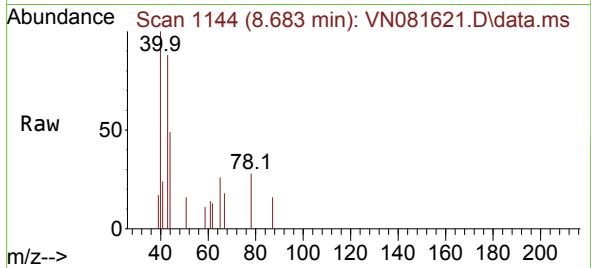




#43
Isopropyl Acetate
Concen: 0.312 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

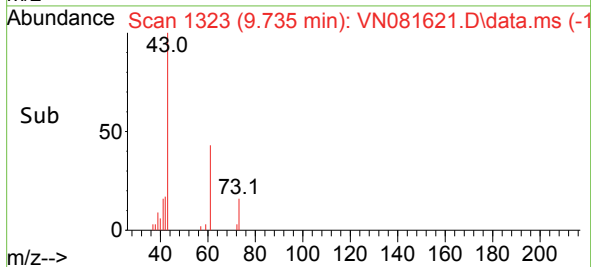
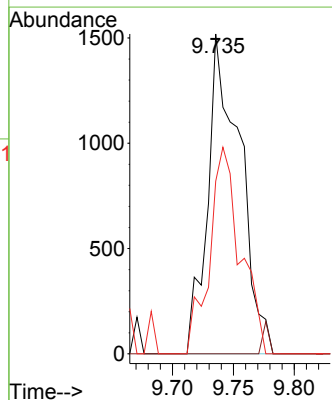
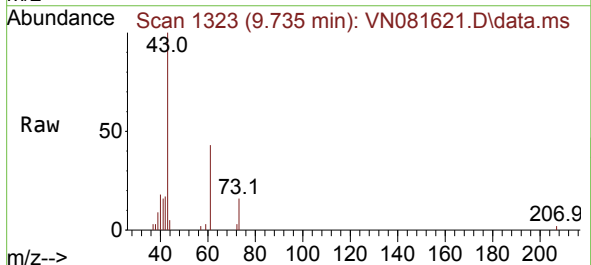
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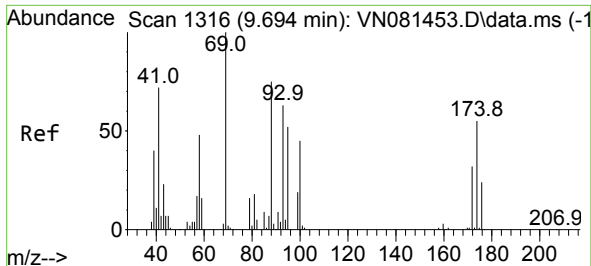
Tgt Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
61 0.0 19.9 29.9#
87 13.0 9.0 13.6



#48
Methyl methacrylate
Concen: 0.580 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.053 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 62.0 47.6 71.4





#49

1,4-Dioxane

Concen: 0.637 ug/l

RT: 9.559 min Scan# 1293

Delta R.T. -0.135 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

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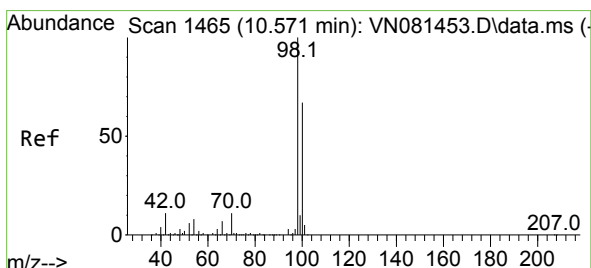
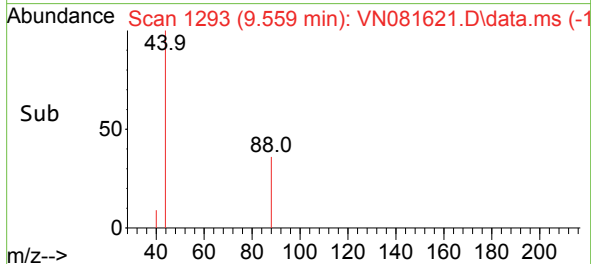
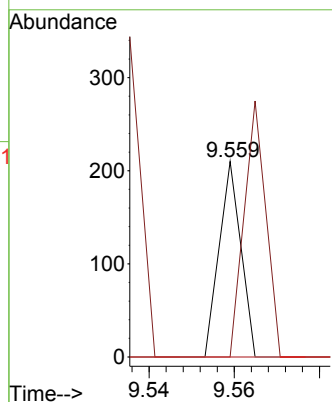
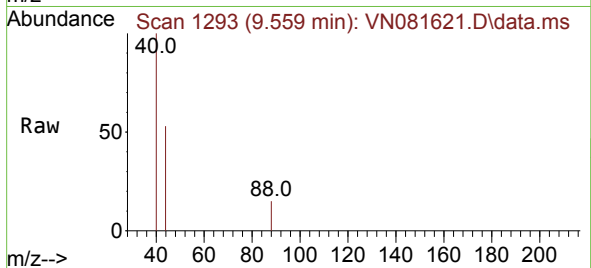
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 52.691 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN081621.D

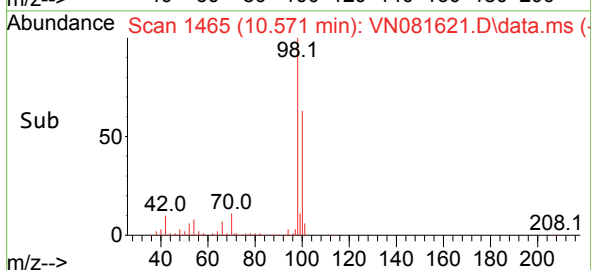
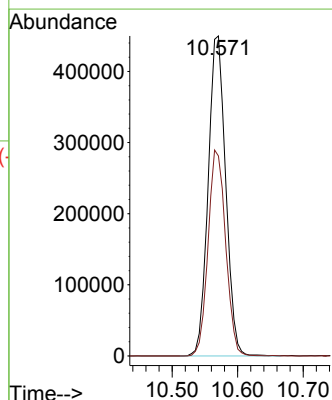
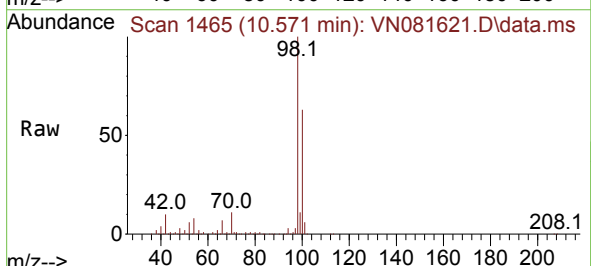
Acq: 29 Mar 2024 17:29

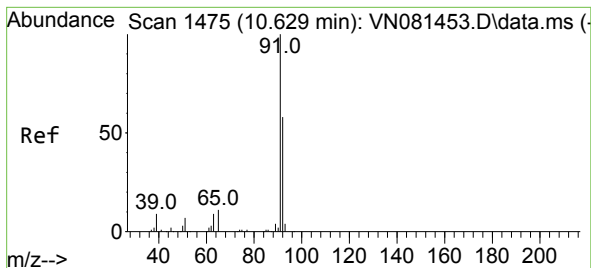
Tgt Ion: 98 Resp: 835350

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0





#52

Toluene

Concen: 13.021 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

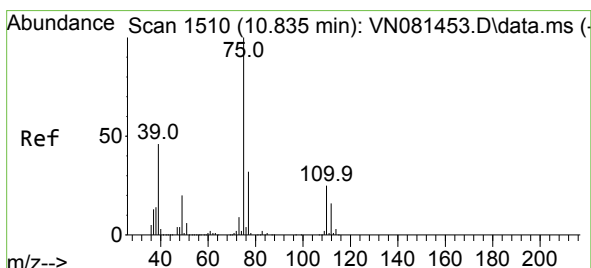
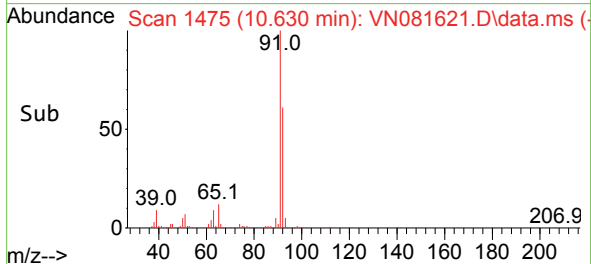
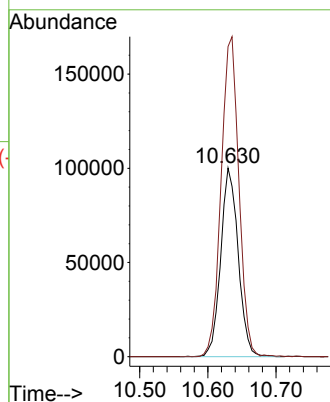
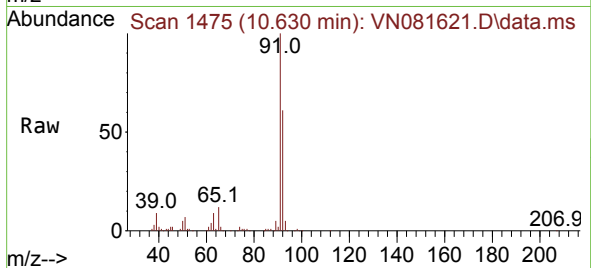
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Tgt Ion: 92 Resp: 178580

Ion Ratio Lower Upper

92 100

91 172.9 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.258 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN081621.D

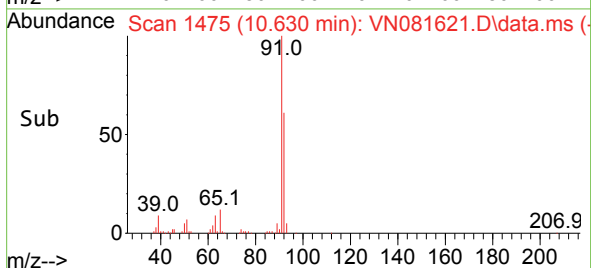
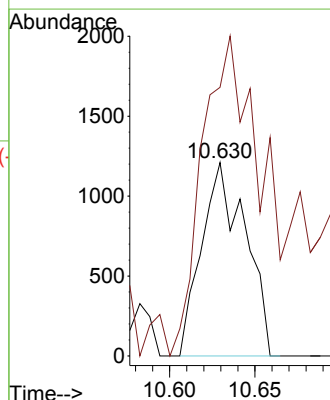
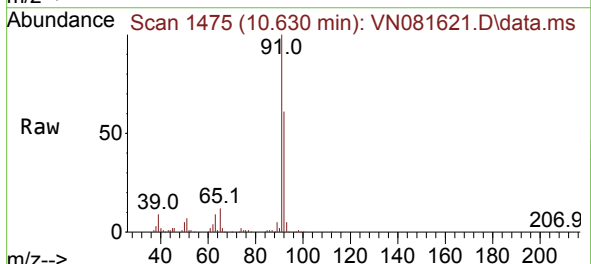
Acq: 29 Mar 2024 17:29

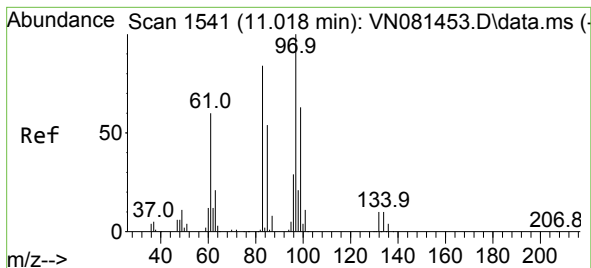
Tgt Ion: 75 Resp: 2163

Ion Ratio Lower Upper

75 100

77 124.8 25.5 38.3#





#55

1,1,2-Trichloroethane

Concen: 0.248 ug/l

RT: 10.888 min Scan# 1519

Delta R.T. -0.129 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion: 97 Resp: 1368

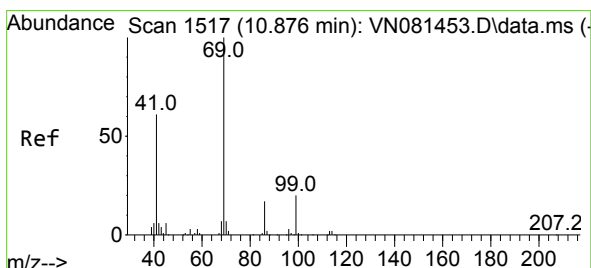
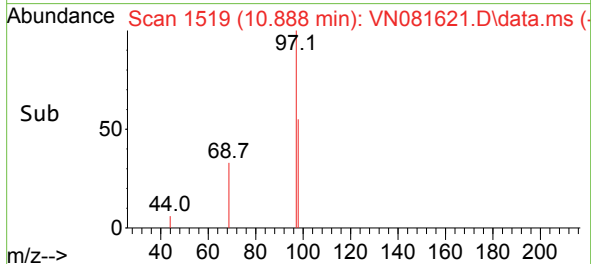
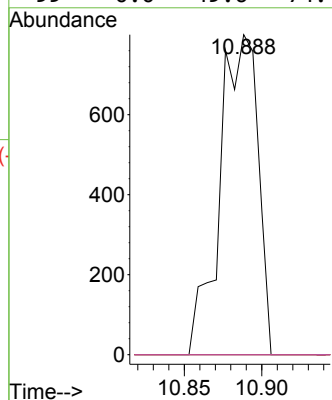
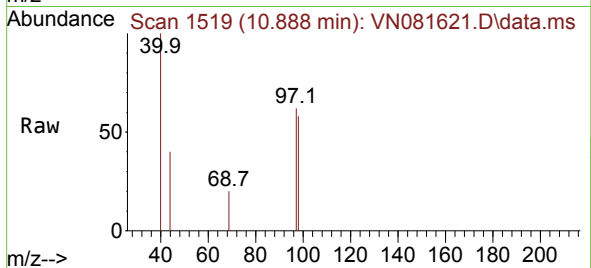
Ion Ratio Lower Upper

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: 0.590 ug/l

RT: 10.888 min Scan# 1519

Delta R.T. 0.012 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

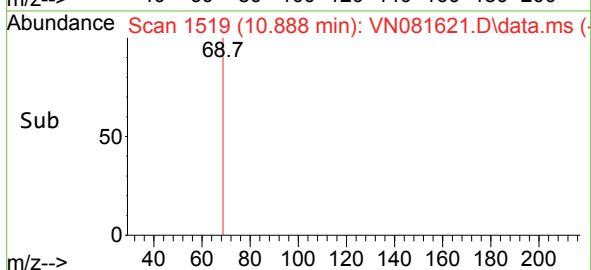
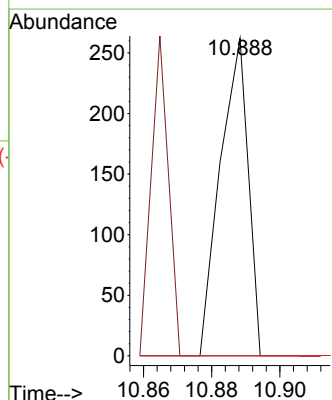
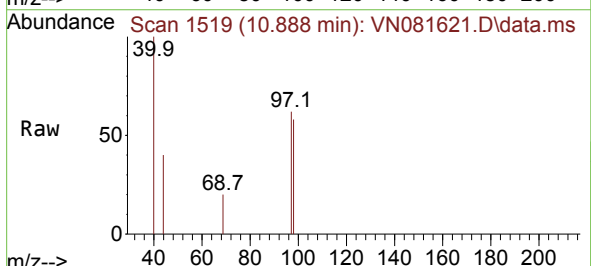
Tgt Ion: 69 Resp: 149

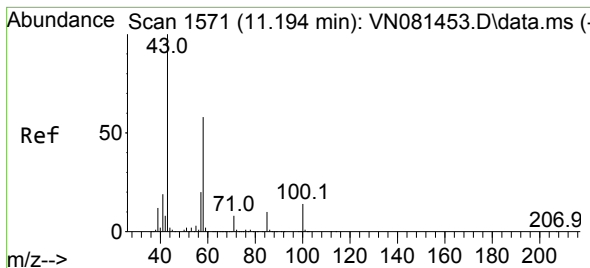
Ion Ratio Lower Upper

69 100

41 0.0 61.0 91.6#

39 0.0 31.8 47.6#

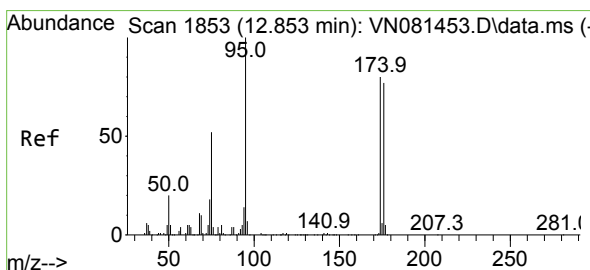
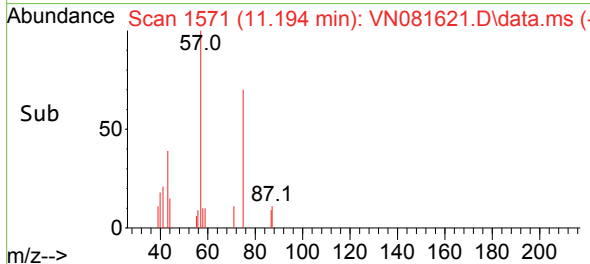
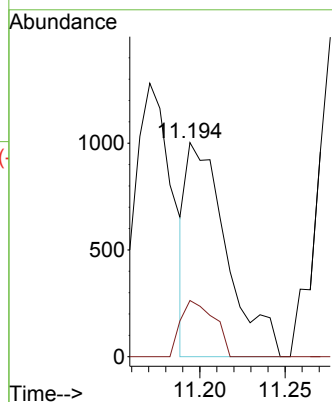
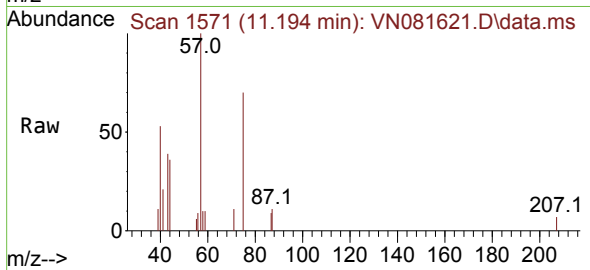




#59
2-Hexanone
Concen: 0.348 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

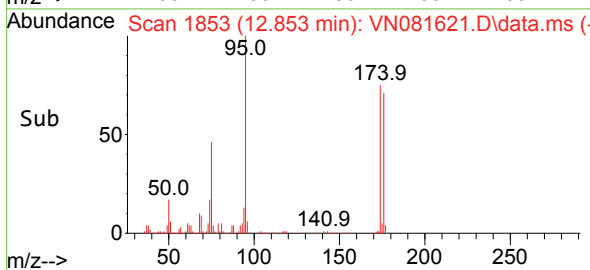
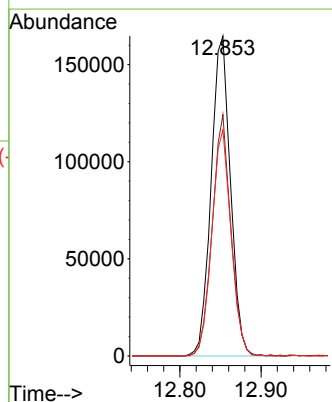
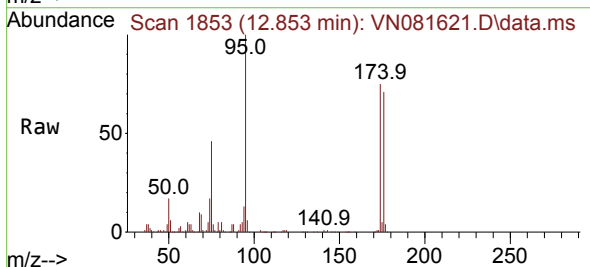
Instrument :
MSVOA_N
ClientSampleId :
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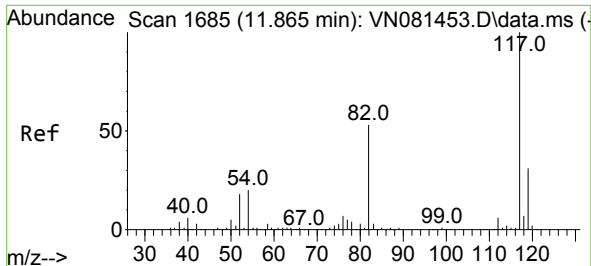
Tgt Ion: 43 Resp: 1646
Ion Ratio Lower Upper
43 100
58 21.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.752 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 95 Resp: 272340
Ion Ratio Lower Upper
95 100
174 72.7 0.0 120.4
176 70.2 0.0 121.0

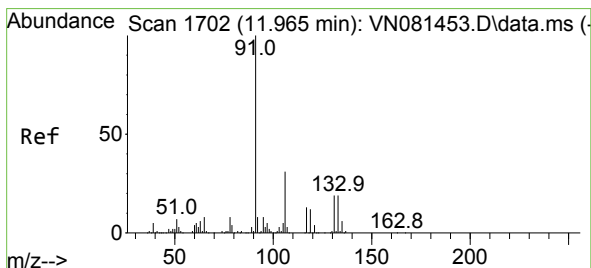
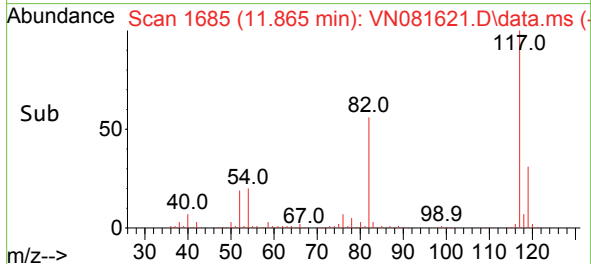
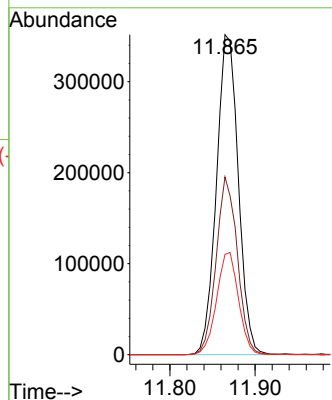
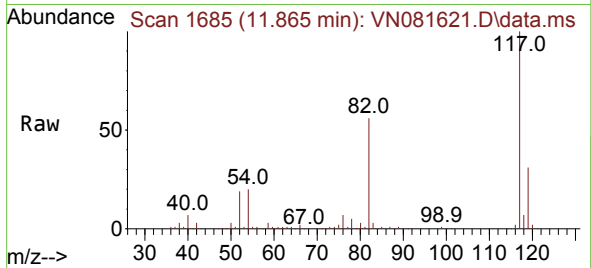




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

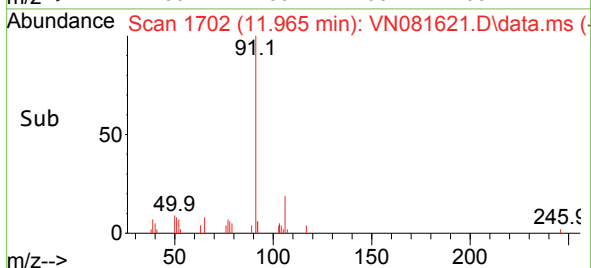
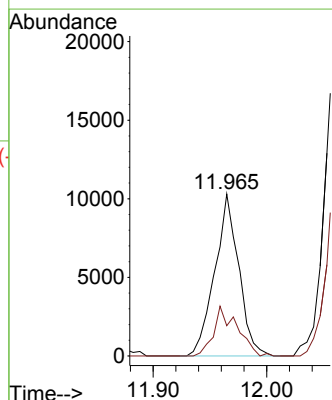
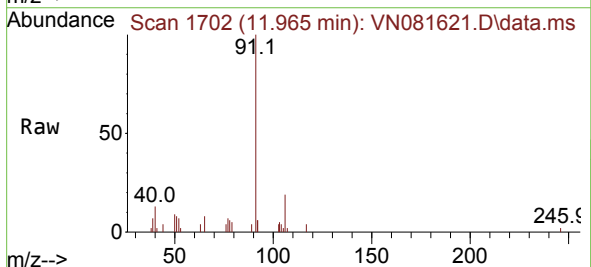
Instrument :
MSVOA_N
ClientSampleId :
S-22

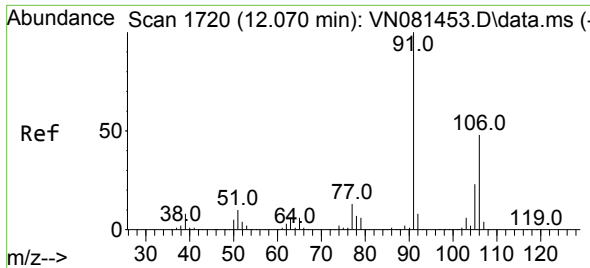
Tgt Ion:117 Resp: 628027
Ion Ratio Lower Upper
117 100
82 55.5 52.7 79.1
119 31.3 25.3 37.9



#67
Ethyl Benzene
Concen: 0.587 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 91 Resp: 15146
Ion Ratio Lower Upper
91 100
106 18.7 23.8 35.6#

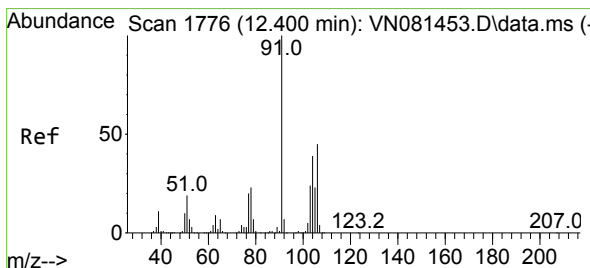
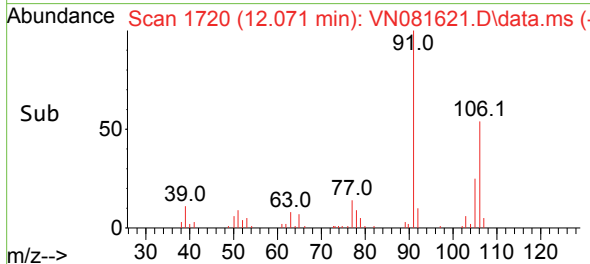
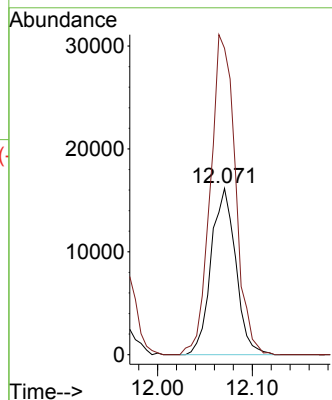
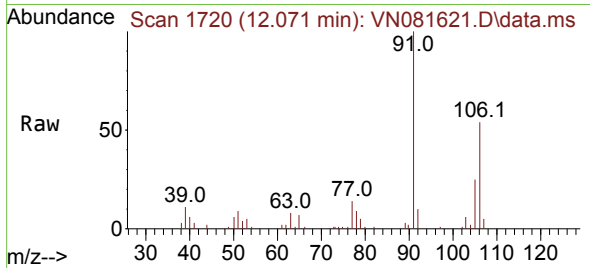




#68
m/p-Xylenes
Concen: 3.024 ug/l
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

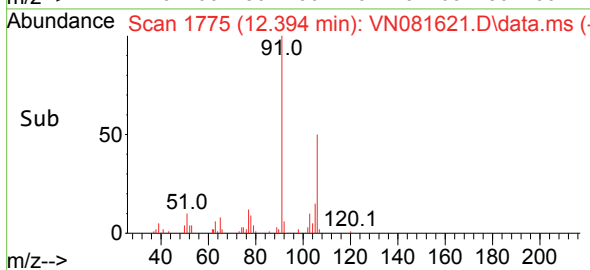
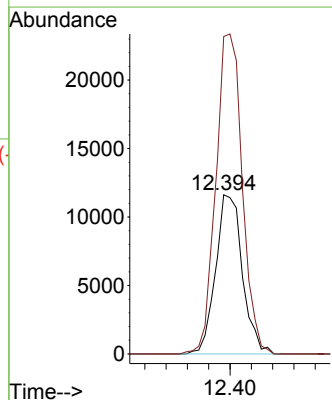
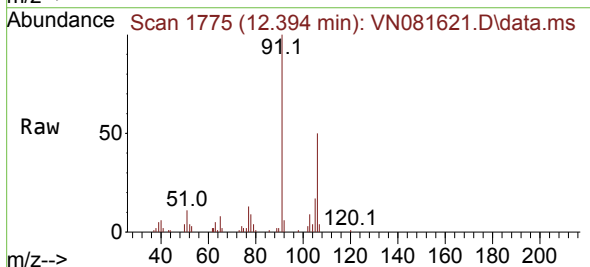
Instrument :
MSVOA_N
ClientSampleId :
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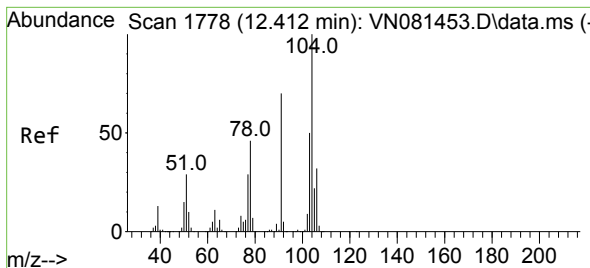
Tgt Ion:106 Resp: 29236
Ion Ratio Lower Upper
106 100
91 195.0 169.0 253.6



#69
o-Xylene
Concen: 2.132 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion:106 Resp: 20240
Ion Ratio Lower Upper
106 100
91 198.5 112.1 336.3





#70

Styrene

Concen: 0.261 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

S-22

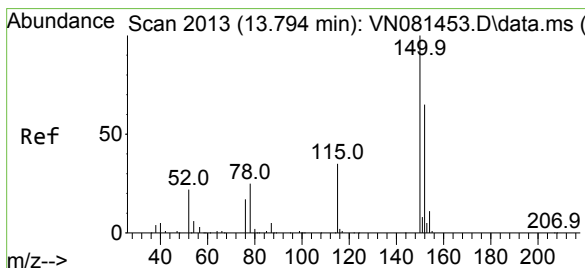
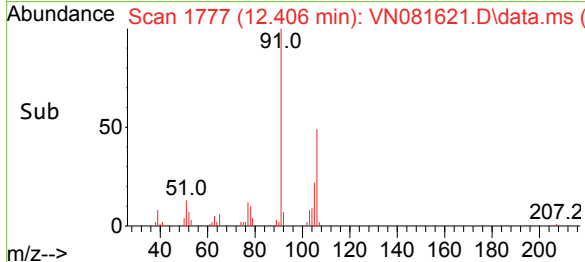
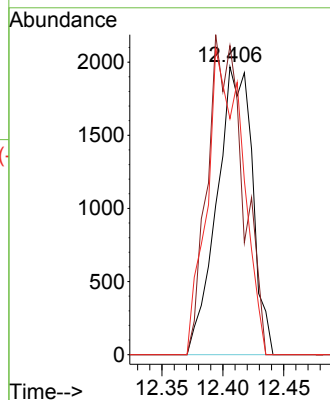
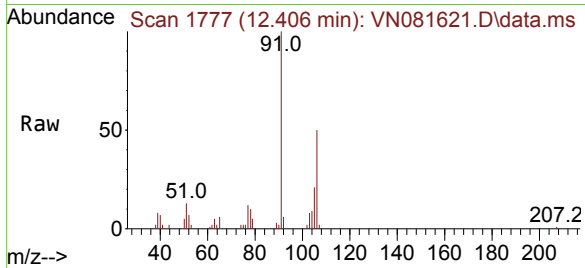
Tgt Ion:104 Resp: 3988

Ion Ratio Lower Upper

104 100

78 111.0 43.8 65.8#

103 105.9 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: VN081621.D

Acq: 29 Mar 2024 17:29

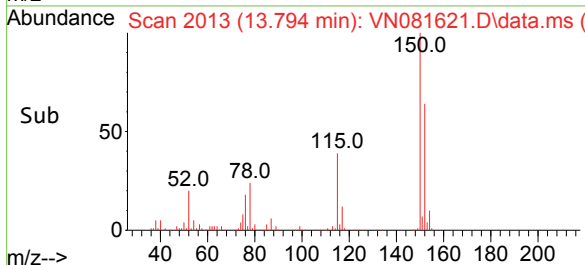
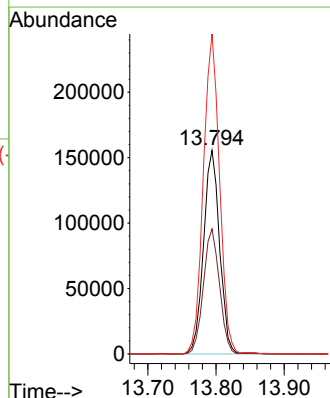
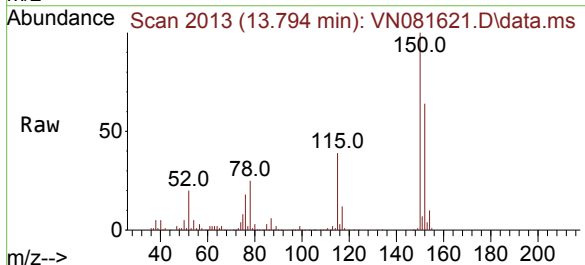
Tgt Ion:152 Resp: 254916

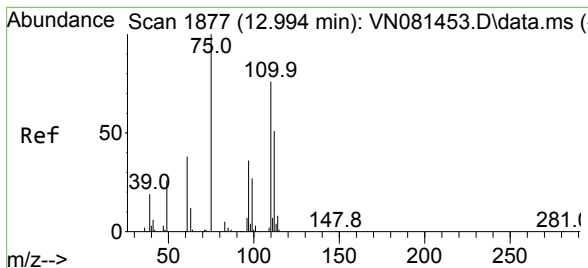
Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 158.3 0.0 339.8

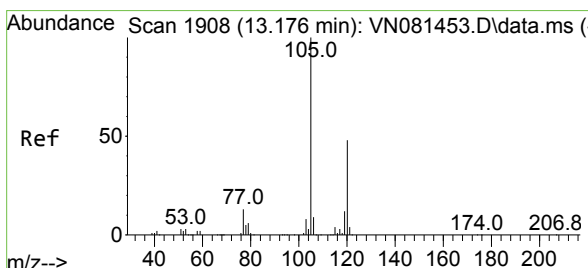
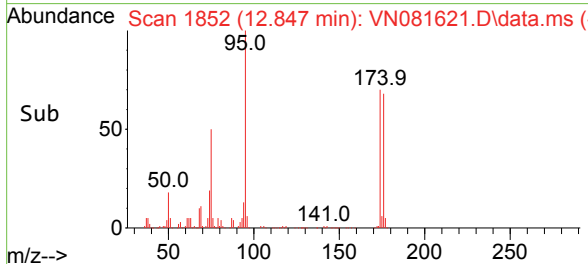
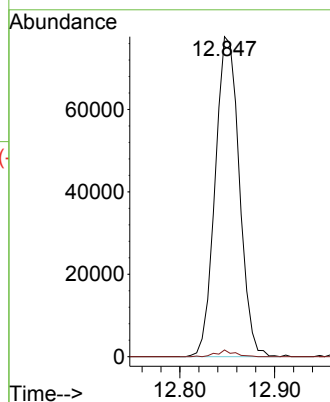
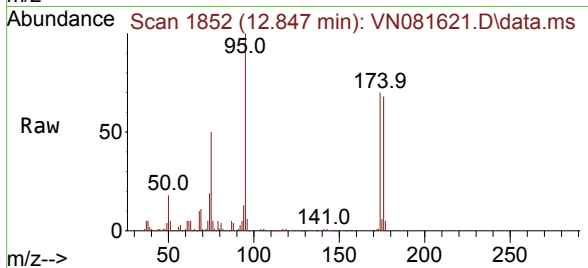




#76
1,2,3-Trichloropropane
Concen: 22.554 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

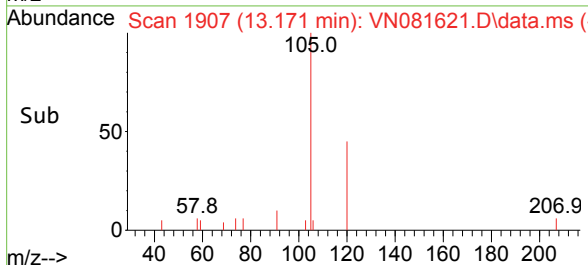
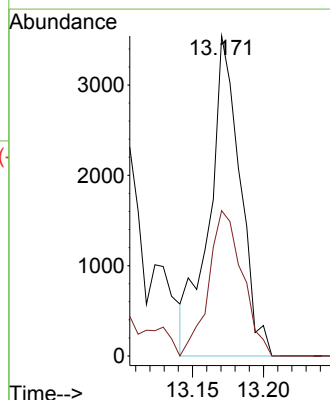
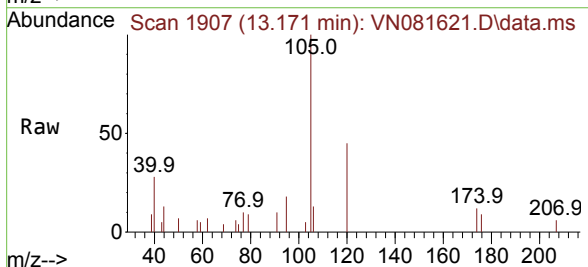
Instrument :
MSVOA_N
ClientSampleId :
S-22

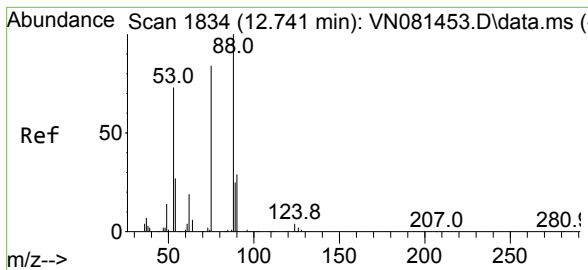
Tgt Ion: 75 Resp: 137526
Ion Ratio Lower Upper
75 100
77 1.5 91.0 272.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.299 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion:105 Resp: 5358
Ion Ratio Lower Upper
105 100
120 49.7 23.0 69.0

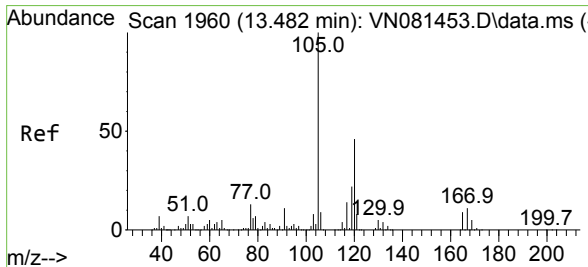
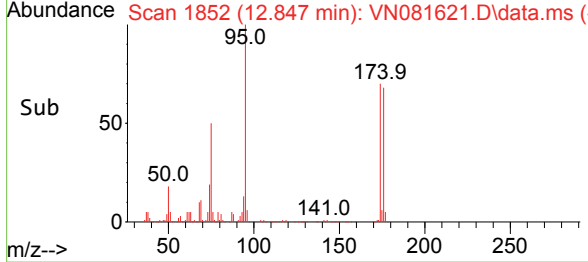
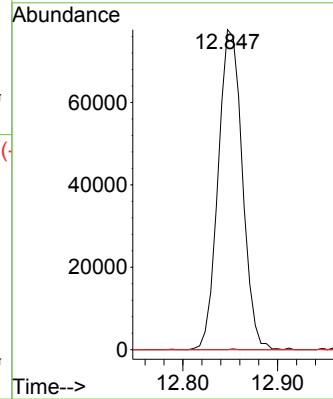
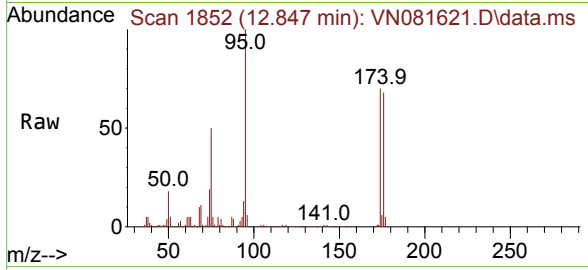




#81
trans-1,4-Dichloro-2-butene
Concen: 60.947 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

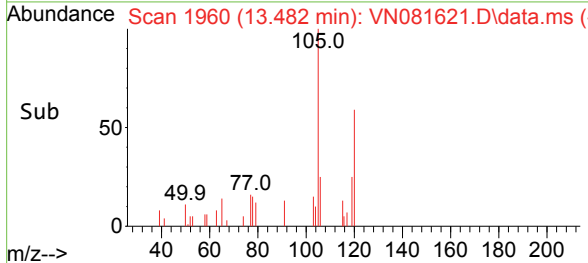
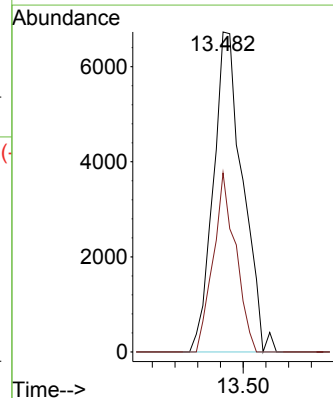
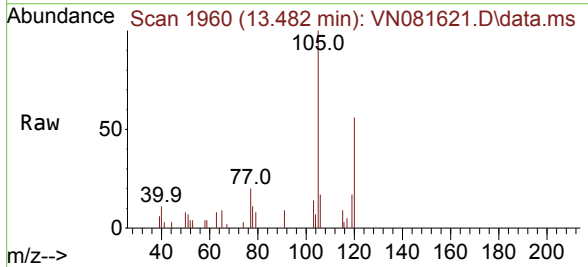
Instrument :
MSVOA_N
ClientSampleId :
S-22

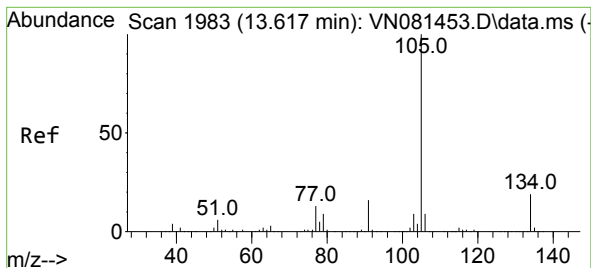
Tgt Ion: 75 Resp: 137526
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.0 33.4 50.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.670 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN081621.D
Acq: 29 Mar 2024 17:29

Tgt Ion: 105 Resp: 12078
Ion Ratio Lower Upper
105 100
120 42.7 20.9 62.7





#85

sec-Butylbenzene

Concen: 0.546 ug/l

RT: 13.482 min Scan# 1983

Delta R.T. -0.135 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Instrument :

MSVOA_N

ClientSampleId :

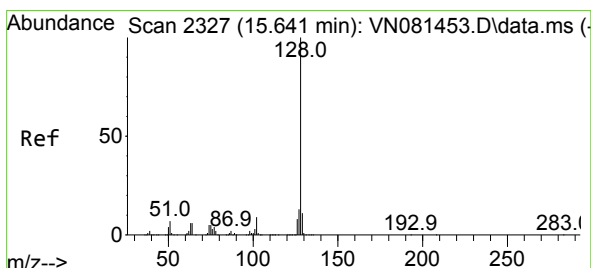
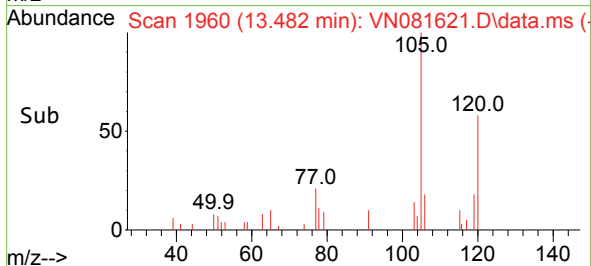
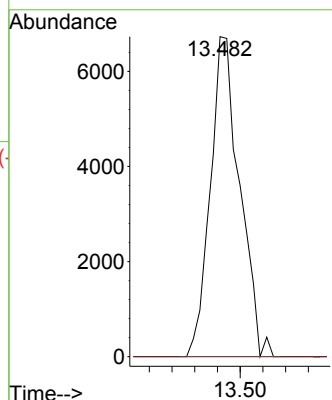
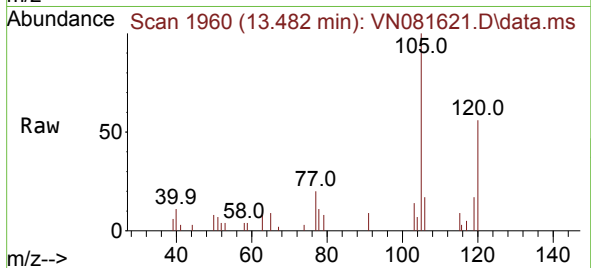
S-22

Tgt Ion:105 Resp: 12078

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.8#



#95

Naphthalene

Concen: 10.107 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN081621.D

Acq: 29 Mar 2024 17:29

Tgt Ion:128 Resp: 179741

Ion Ratio Lower Upper

128 100

127 12.8 10.0 15.0

129 11.0 8.7 13.1

