

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032724\
 Data File : VN081587.D
 Acq On : 27 Mar 2024 15:57
 Operator : JC\MD
 Sample : PB159779ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159779ZHE#03

Quant Time: Mar 28 01:28:54 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

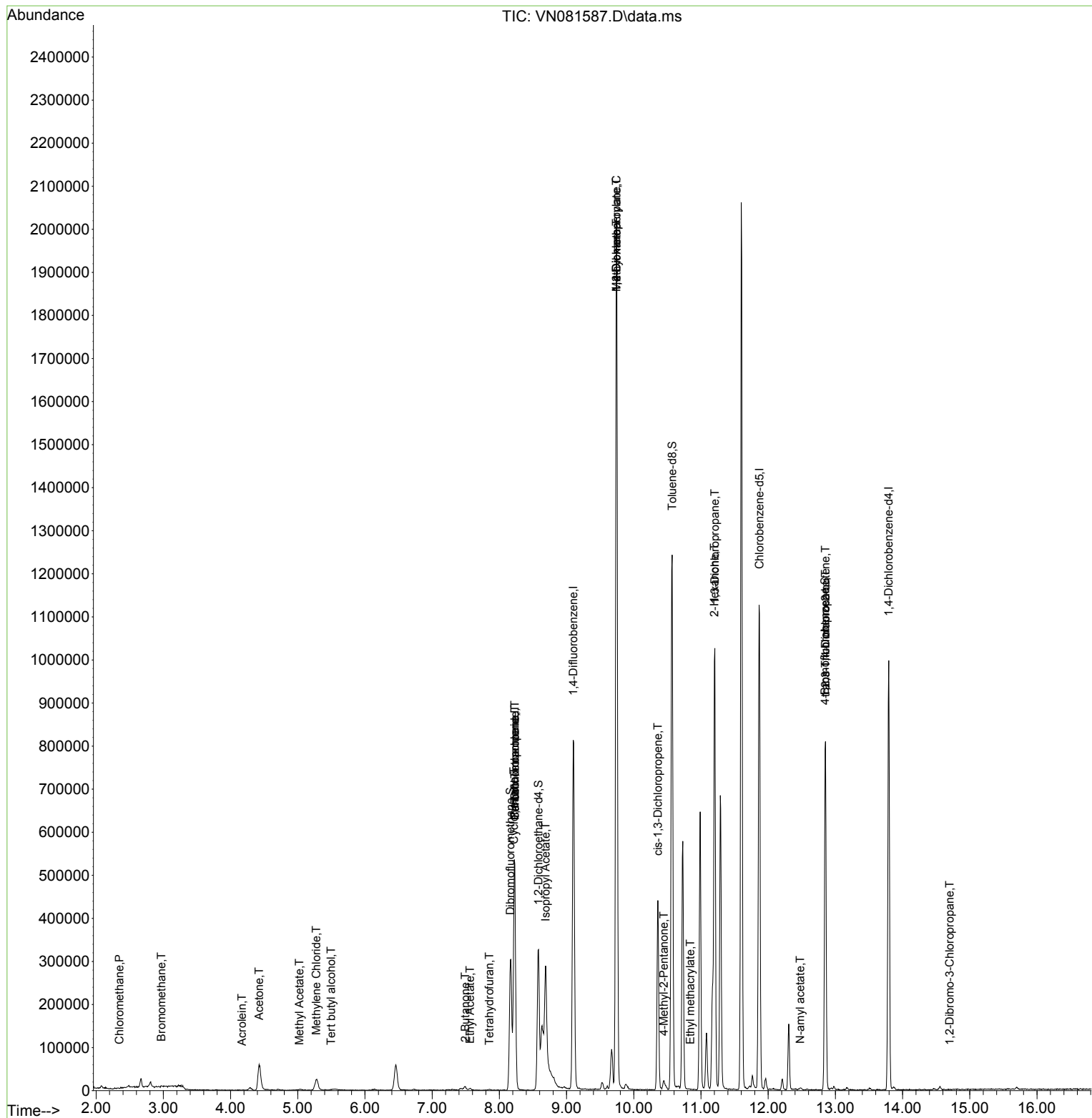
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	379004	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	718686	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	678980	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	262112	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	264872	54.801	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.600%			
35) Dibromofluoromethane	8.165	113	223880	49.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.720%			
50) Toluene-d8	10.570	98	885205	53.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.980%			
62) 4-Bromofluorobenzene	12.847	95	278217	48.157	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 96.320%			
Target Compounds						
						Qvalue
3) Chloromethane	2.347	50	1144	0.225	ug/l	# 43
5) Bromomethane	2.971	94	1641	0.407	ug/l	# 14
11) Tert butyl alcohol	5.494	59	1033	1.226	ug/l	# 88
13) Acrolein	4.171	56	369	0.488	ug/l	# 15
16) Acetone	4.424	43	113593	72.722	ug/l	# 99
18) Methyl Acetate	5.024	43	4062	0.843	ug/l	# 70
20) Methylene Chloride	5.277	84	20753	4.056	ug/l	# 77
25) 2-Butanone	7.494	43	12666	4.728	ug/l	# 90
29) Tetrahydrofuran	7.853	42	954	0.529	ug/l	# 73
31) Cyclohexane	8.218	56	9272	1.179	ug/l	# 1
36) 1,1-Dichloropropene	8.229	75	32234	4.223	ug/l	# 49
37) Ethyl Acetate	7.565	43	5853	0.895	ug/l	# 95
38) Carbon Tetrachloride	8.229	117	40821	4.882	ug/l	# 18
43) Isopropyl Acetate	8.688	43	377432	34.837	ug/l	# 81
45) 1,2-Dichloropropane	9.741	63	3029	0.560	ug/l	# 42
48) Methyl methacrylate	9.741	41	184687	36.958	ug/l	# 48
49) 1,4-Dioxane	9.741	88	440	3.664	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.447	43	19479	2.946	ug/l	# 90
54) cis-1,3-Dichloropropene	10.359	75	82504	8.875	ug/l	# 63
56) Ethyl methacrylate	10.841	69	163	0.591	ug/l	# 20
57) 1,3-Dichloropropane	11.206	76	11757	1.256	ug/l	# 43
59) 2-Hexanone	11.200	43	125434	25.663	ug/l	# 60
74) N-amyl acetate	12.476	43	3775	0.467	ug/l	# 51
76) 1,2,3-Trichloropropane	12.853	75	146714	23.400	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	146714	63.234	ug/l	# 14
92) 1,2-Dibromo-3-Chloropr...	14.700	75	287	0.205	ug/l	# 13

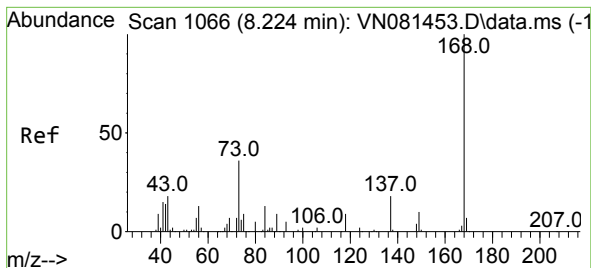
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

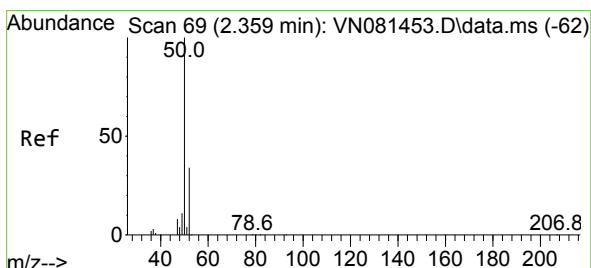
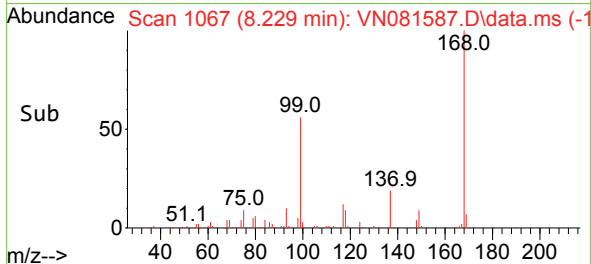
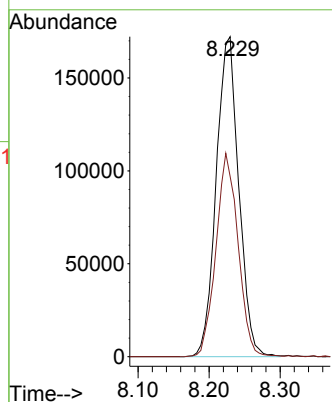
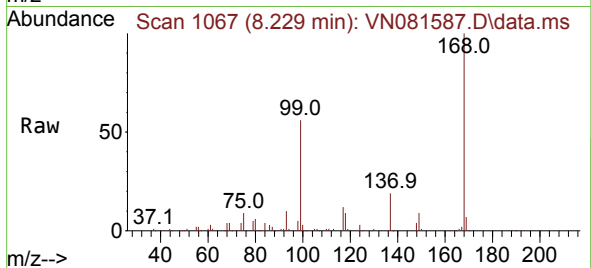
PB159779ZHE#03

Tgt Ion:168 Resp: 379004

Ion Ratio Lower Upper

168 100

99 56.3 59.9 89.9#



#3

Chloromethane

Concen: 0.225 ug/l

RT: 2.347 min Scan# 67

Delta R.T. -0.012 min

Lab File: VN081587.D

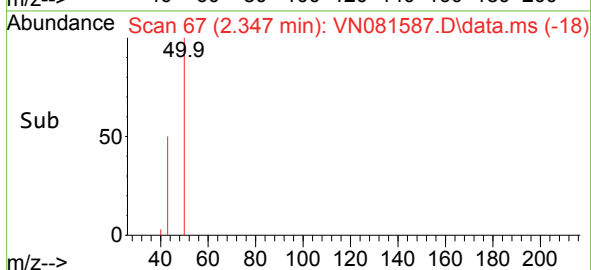
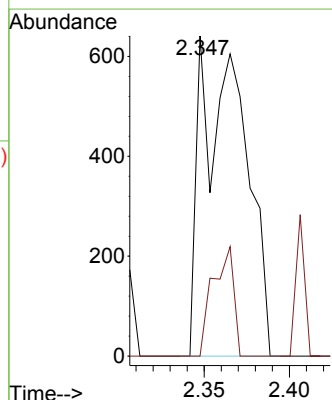
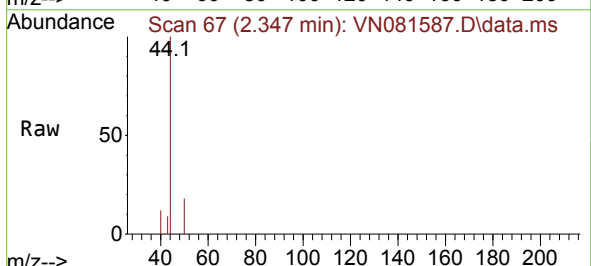
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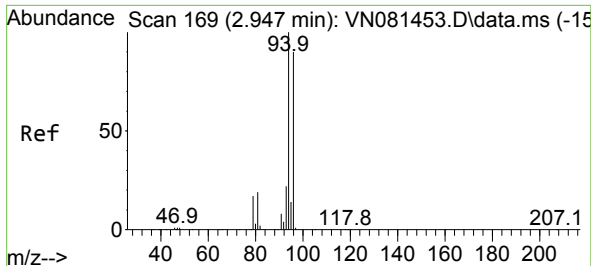
Tgt Ion: 50 Resp: 1144

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#

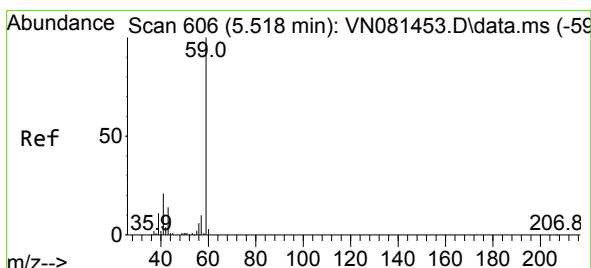
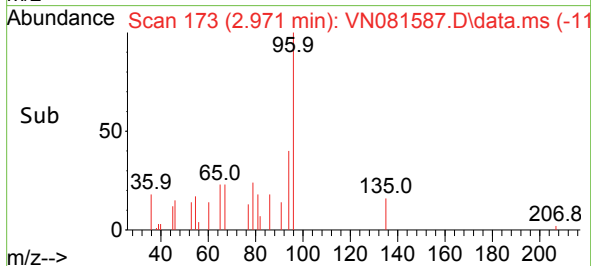
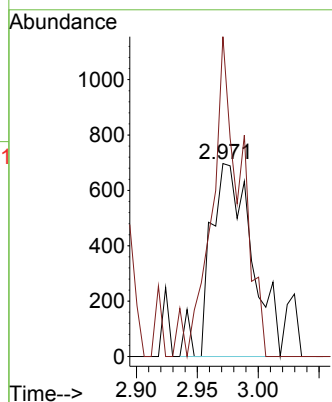
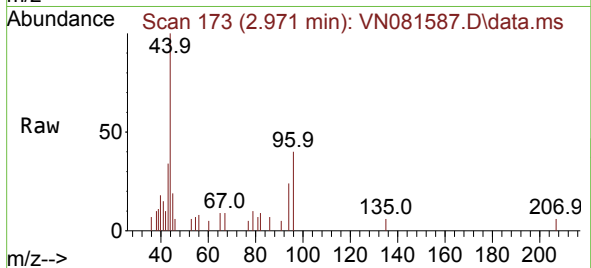




#5
Bromomethane
Concen: 0.407 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

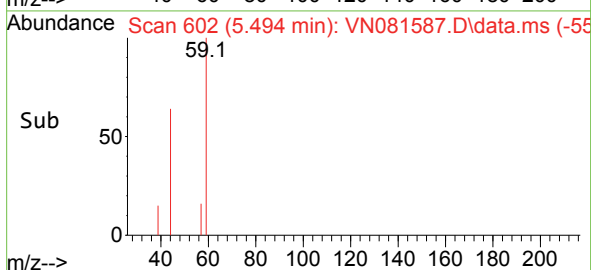
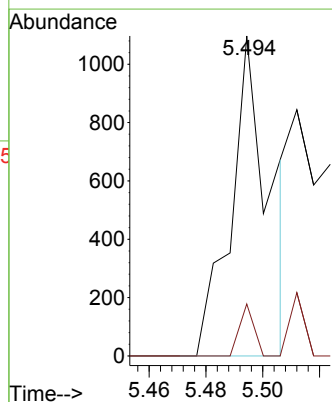
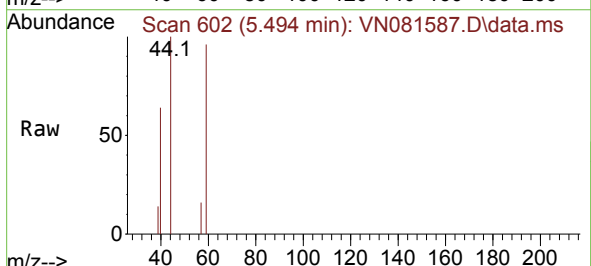
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

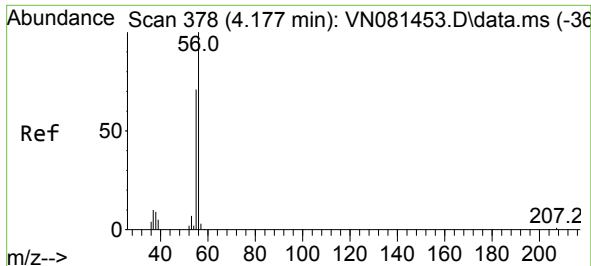
Tgt Ion: 94 Resp: 1641
Ion Ratio Lower Upper
94 100
96 165.7 69.2 103.8#



#11
Tert butyl alcohol
Concen: 1.226 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.024 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 59 Resp: 1033
Ion Ratio Lower Upper
59 100
57 6.1 8.6 12.8#

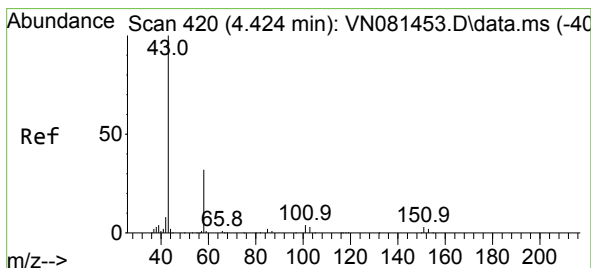
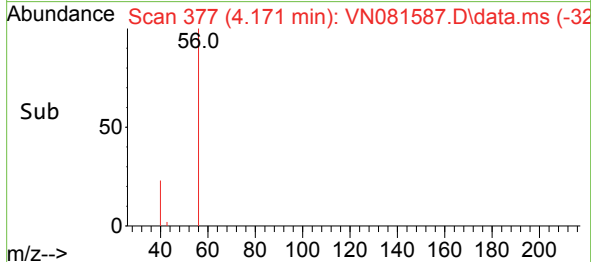
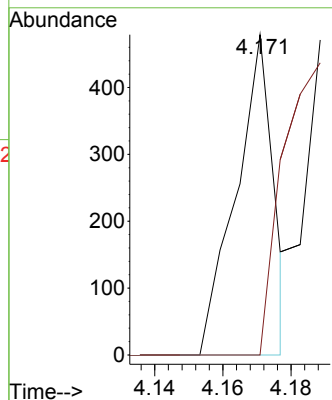
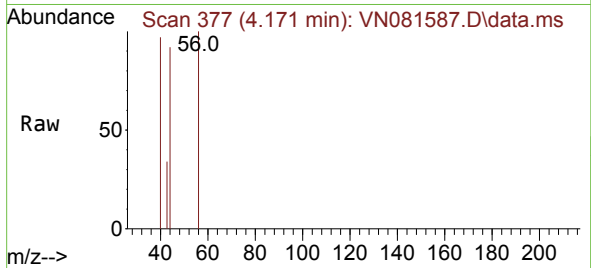




#13
Acrolein
Concen: 0.488 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

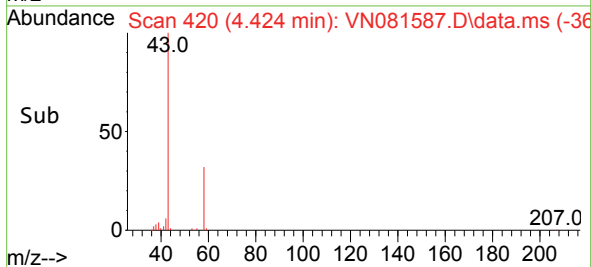
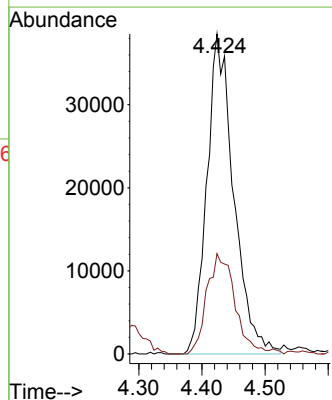
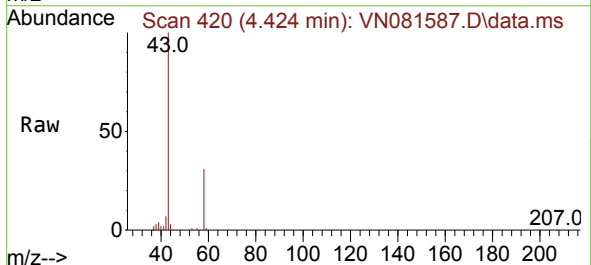
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MSVOA_N
ClientSampleId :
PB159779ZHE#03

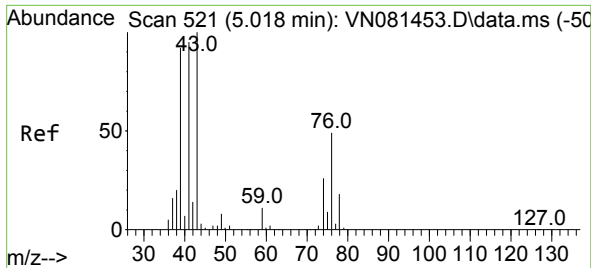
Tgt Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#



#16
Acetone
Concen: 72.722 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 43 Resp: 113593
Ion Ratio Lower Upper
43 100
58 31.4 24.8 37.2

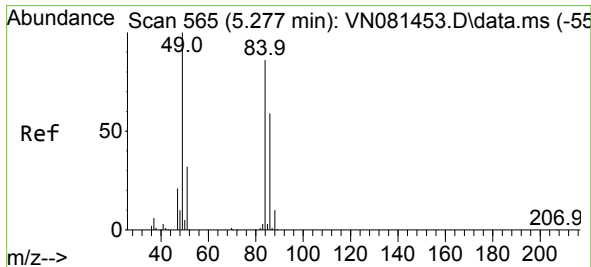
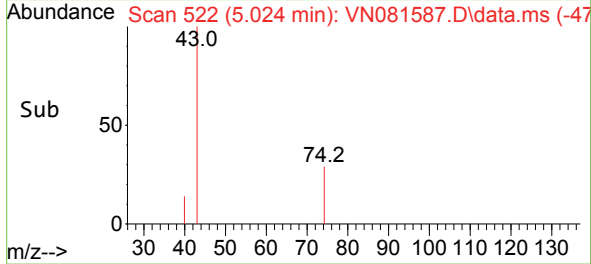
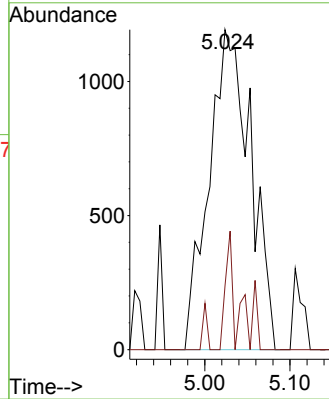
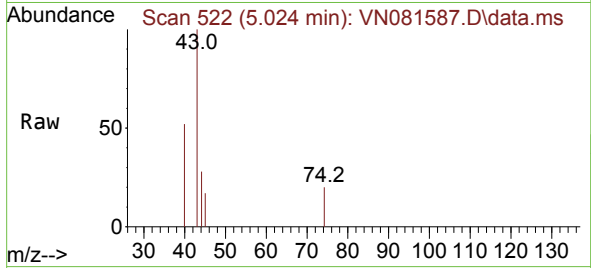




#18
Methyl Acetate
Concen: 0.843 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

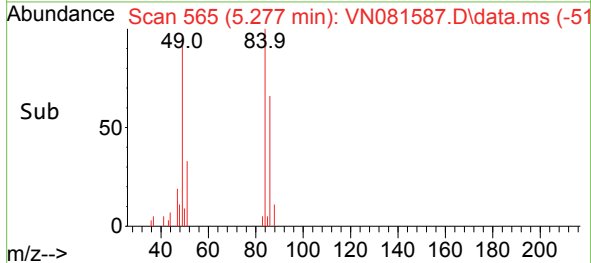
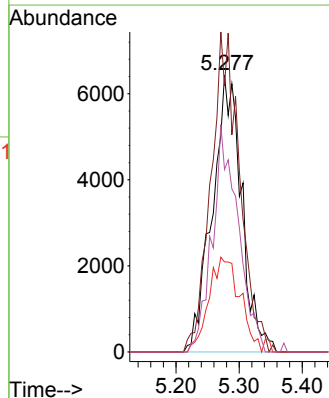
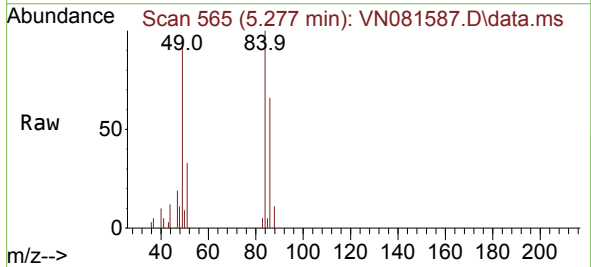
Instrument :
MSVOA_N
ClientSampleId :
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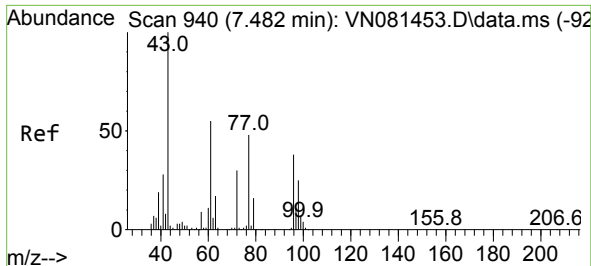
Tgt Ion: 43 Resp: 4062
Ion Ratio Lower Upper
43 100
74 7.4 17.3 25.9#



#20
Methylene Chloride
Concen: 4.056 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 84 Resp: 20753
Ion Ratio Lower Upper
84 100
49 96.1 108.1 162.1#
51 32.6 32.9 49.3#
86 65.9 48.6 73.0

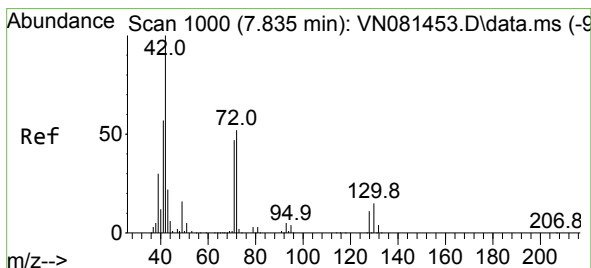
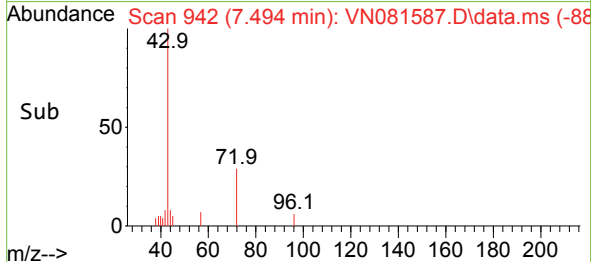
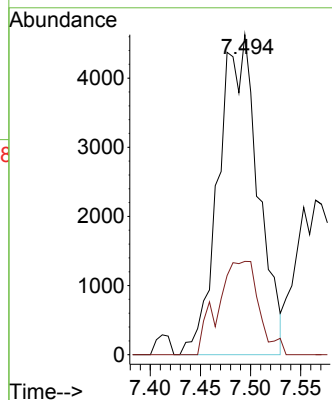
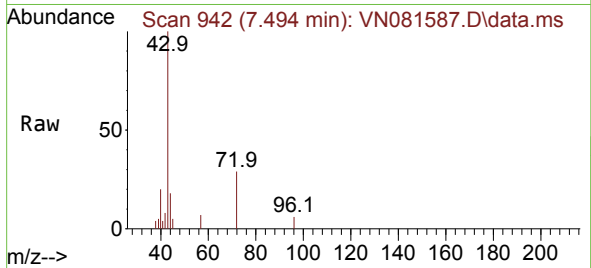




#25
2-Butanone
Concen: 4.728 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

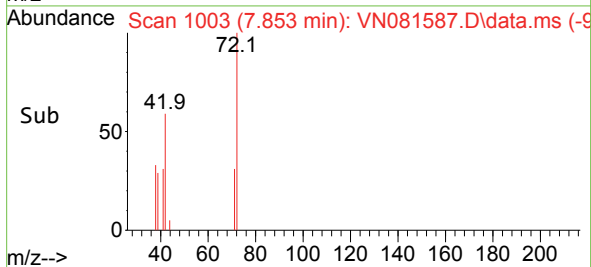
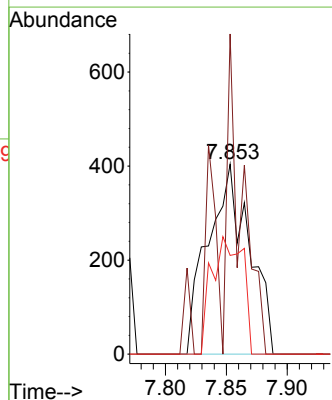
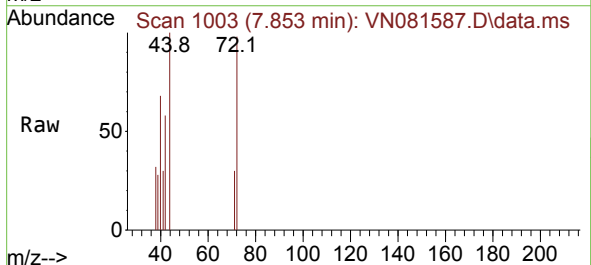
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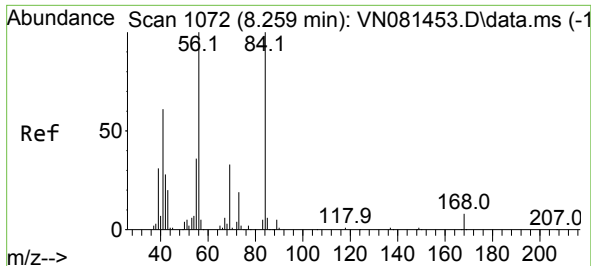
Tgt Ion: 43 Resp: 12666
Ion Ratio Lower Upper
43 100
72 29.1 19.5 29.3



#29
Tetrahydrofuran
Concen: 0.529 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 42 Resp: 954
Ion Ratio Lower Upper
42 100
72 60.1 31.1 46.7#
71 46.2 28.3 42.5#

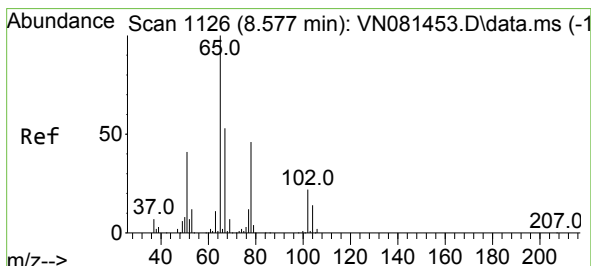
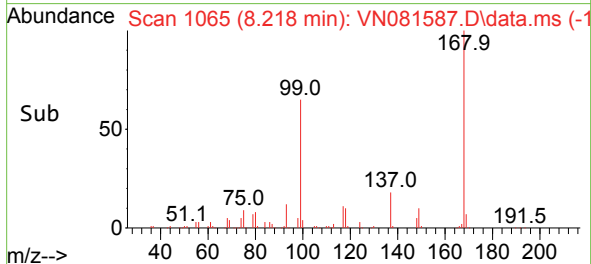
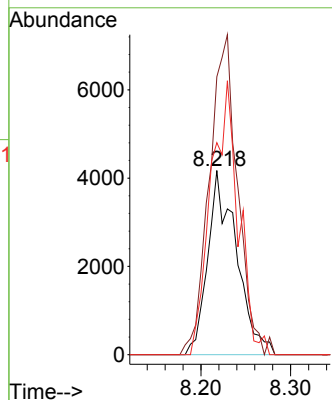
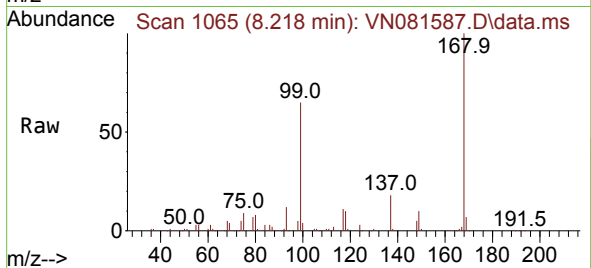




#31
Cyclohexane
Concen: 1.179 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

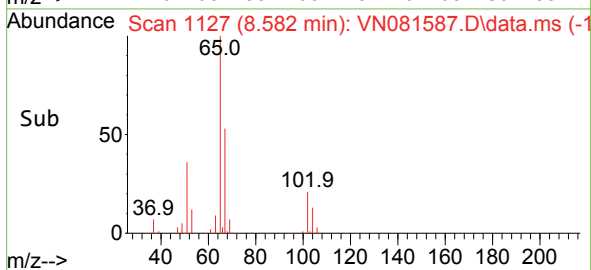
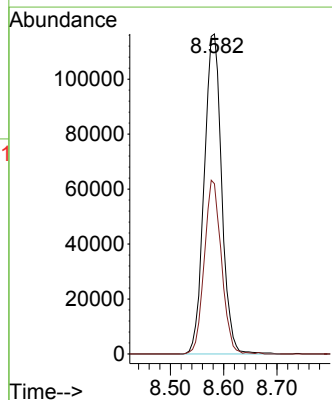
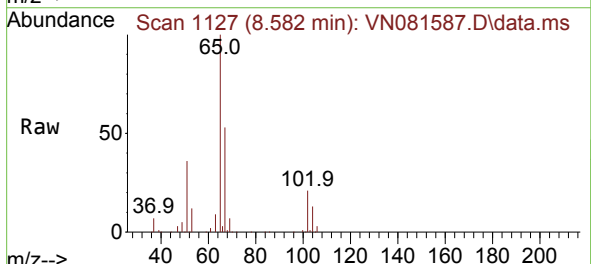
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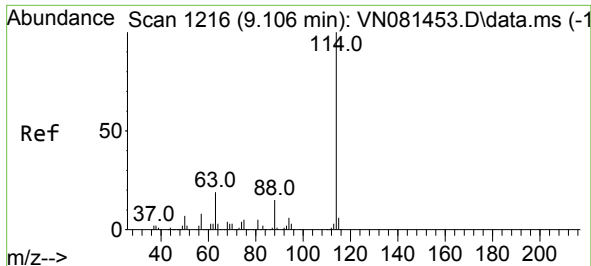
Tgt Ion: 56 Resp: 9272
Ion Ratio Lower Upper
56 100
69 150.9 20.1 30.1#
84 115.1 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 54.801 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 65 Resp: 264872
Ion Ratio Lower Upper
65 100
67 53.2 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: VN081587.D

Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#03

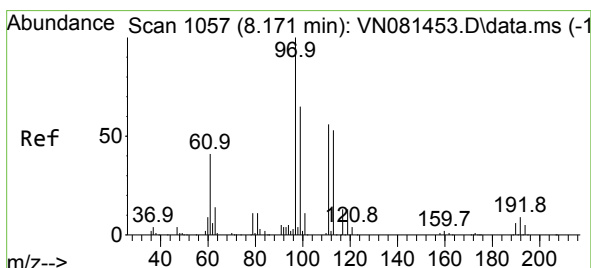
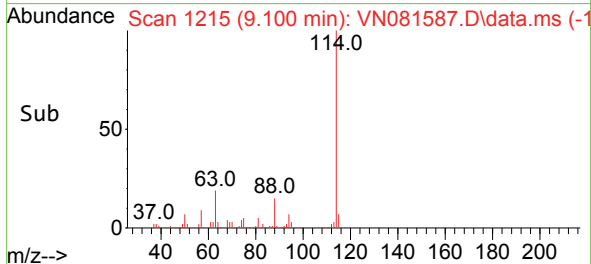
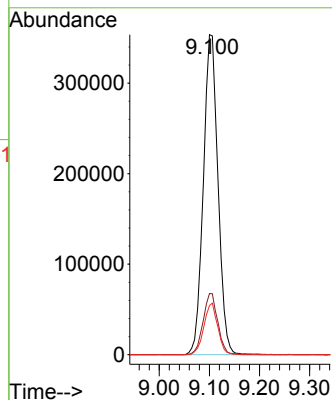
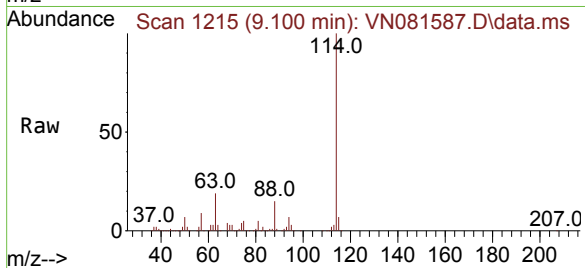
Tgt Ion:114 Resp: 718686

Ion Ratio Lower Upper

114 100

63 19.1 0.0 48.0

88 15.4 0.0 34.8



#35

Dibromofluoromethane

Concen: 49.360 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

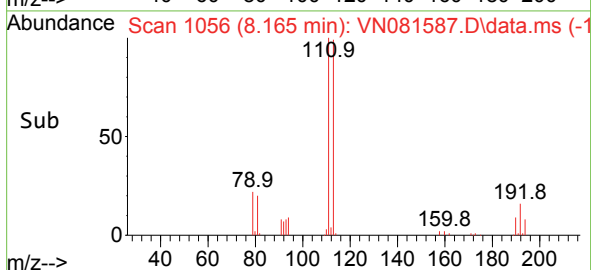
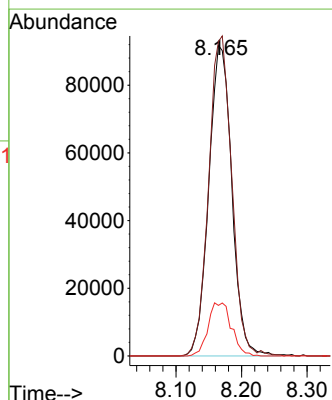
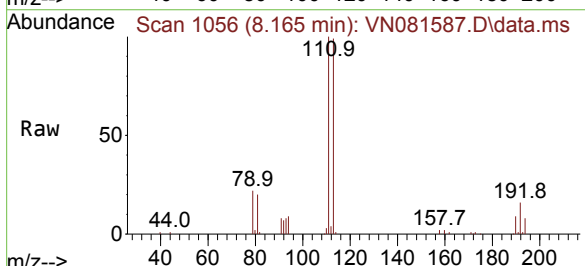
Tgt Ion:113 Resp: 223880

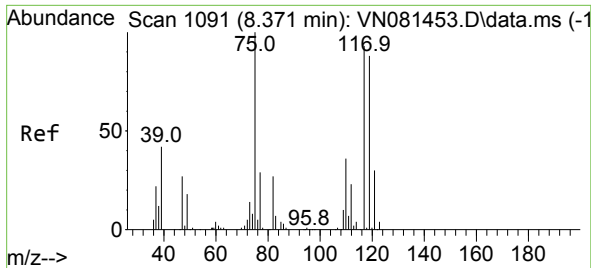
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

192 17.4 12.5 18.7

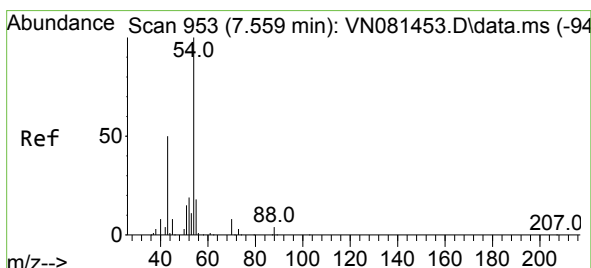
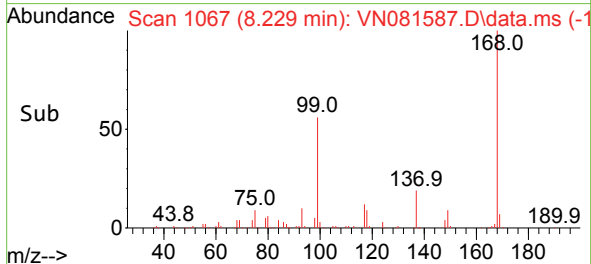
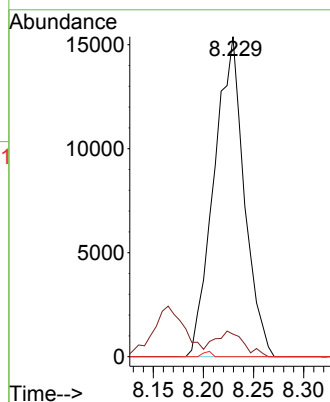
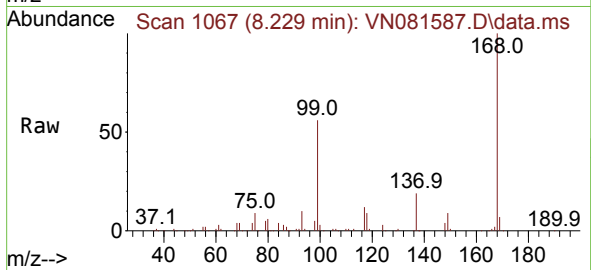




#36
1,1-Dichloropropene
Concen: 4.223 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

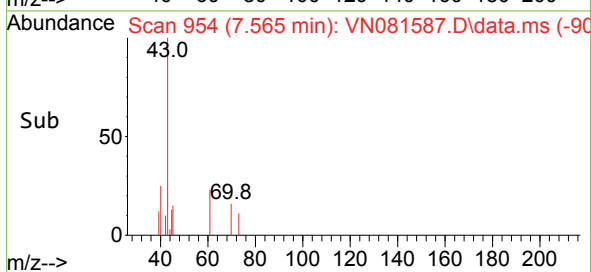
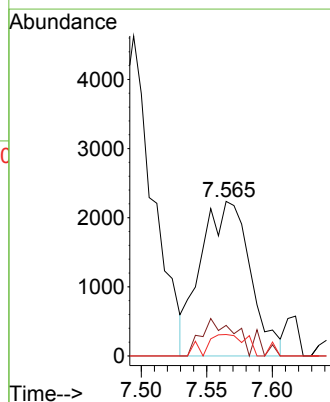
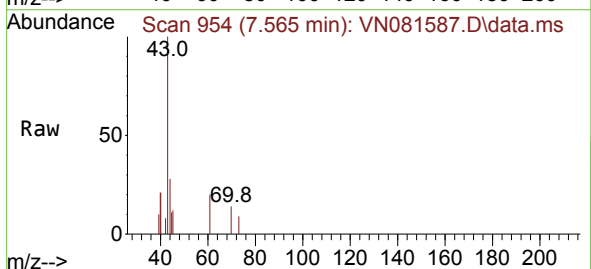
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

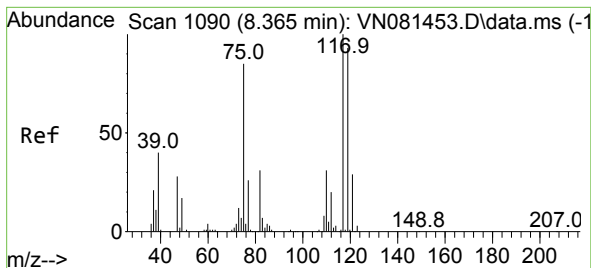
Tgt Ion: 75 Resp: 32234
Ion Ratio Lower Upper
75 100
110 7.8 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 0.895 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 43 Resp: 5853
Ion Ratio Lower Upper
43 100
61 16.0 10.6 15.8#
70 11.2 8.0 12.0





#38

Carbon Tetrachloride

Concen: 4.882 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN081587.D

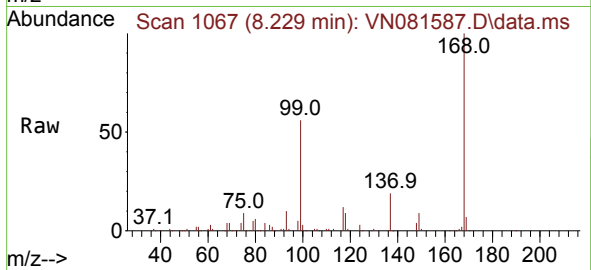
Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#03



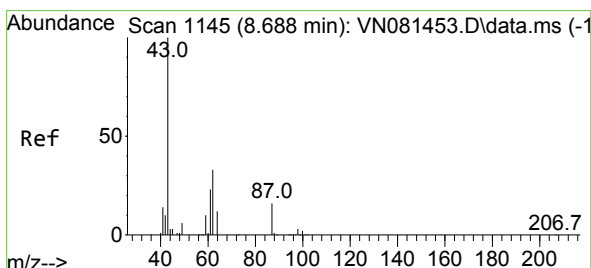
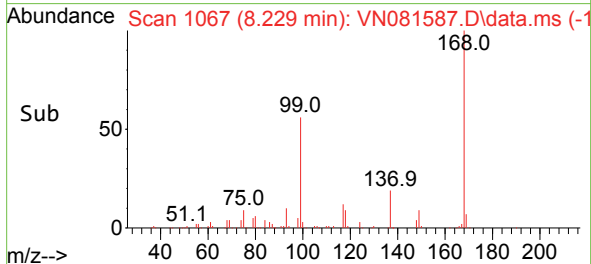
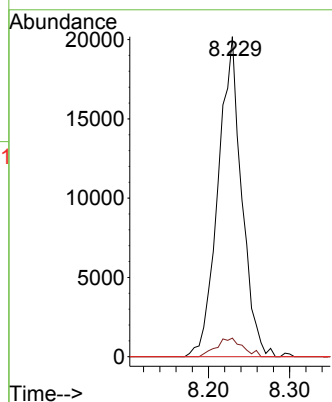
Tgt Ion:117 Resp: 40821

Ion Ratio Lower Upper

117 100

119 5.8 73.4 110.2#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 34.837 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

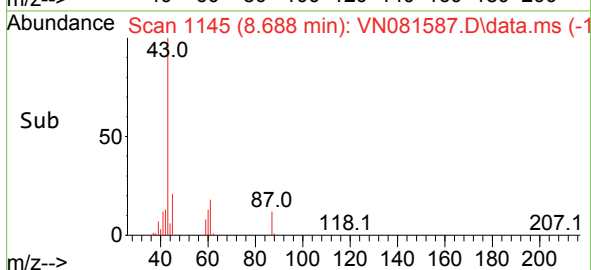
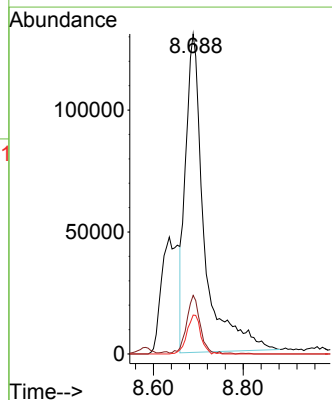
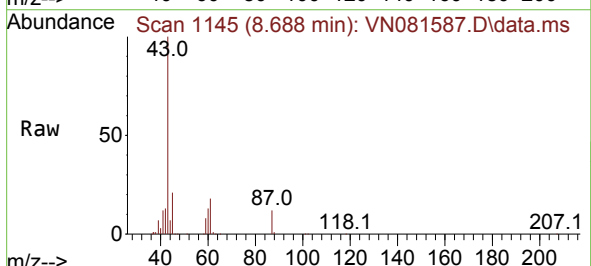
Tgt Ion: 43 Resp: 377432

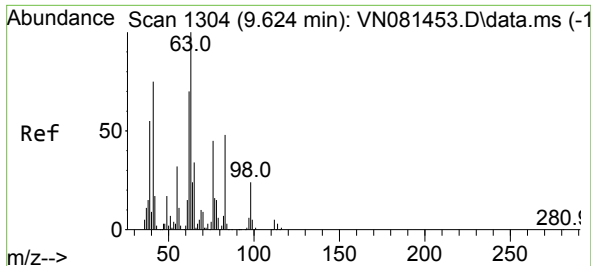
Ion Ratio Lower Upper

43 100

61 12.7 19.9 29.9#

87 9.0 9.0 13.6#





#45

1,2-Dichloropropane

Concen: 0.560 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

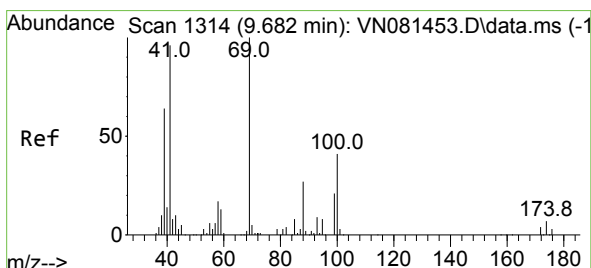
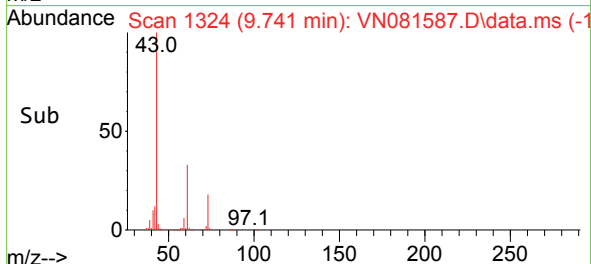
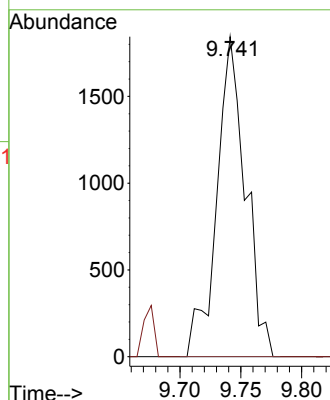
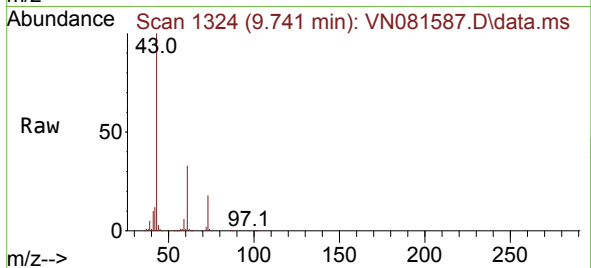
PB159779ZHE#03

Tgt Ion: 63 Resp: 3029

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 36.958 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

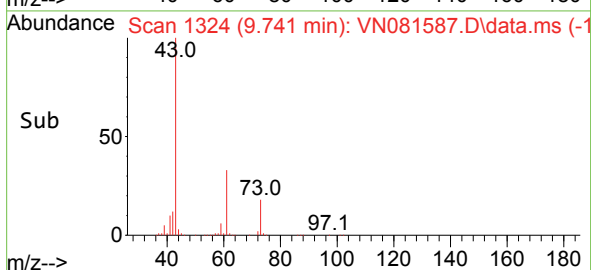
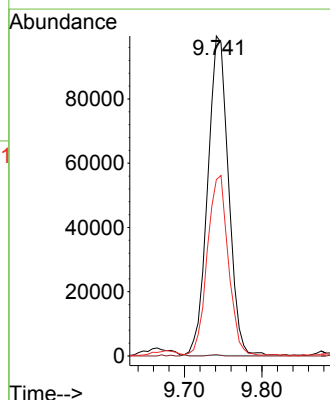
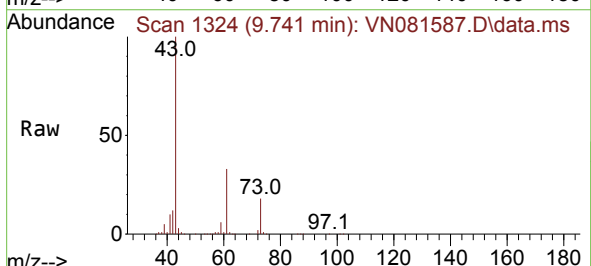
Tgt Ion: 41 Resp: 184687

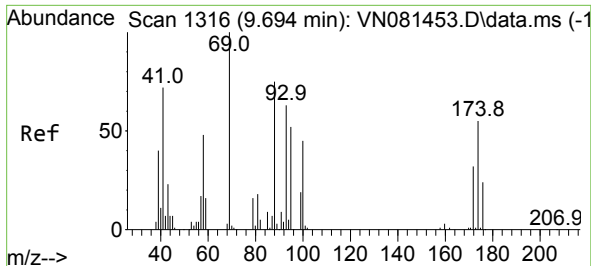
Ion Ratio Lower Upper

41 100

69 0.2 62.2 93.2#

39 56.8 47.6 71.4





#49

1,4-Dioxane

Concen: 3.664 ug/l

RT: 9.741 min Scan# 1316

Delta R.T. 0.047 min

Lab File: VN081587.D

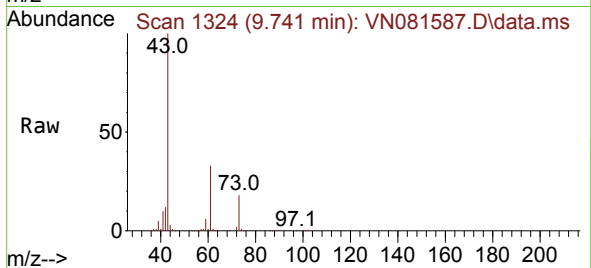
Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#03



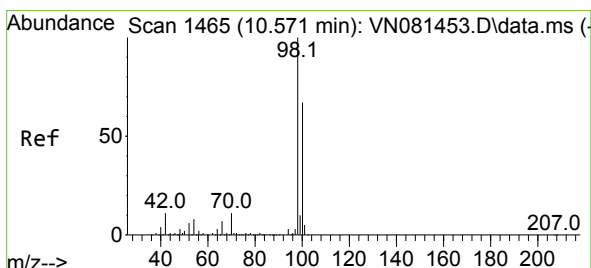
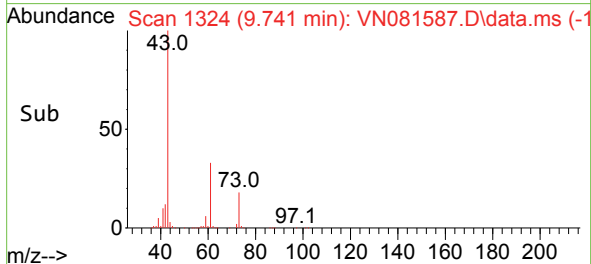
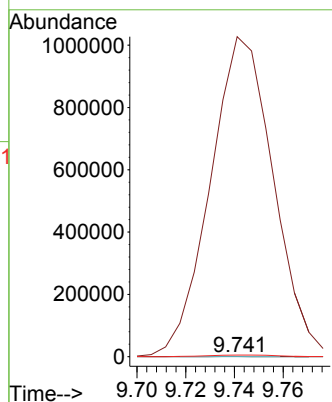
Tgt Ion: 88 Resp: 440

Ion Ratio Lower Upper

88 100

43 423398.2 30.1 45.1#

58 2444.5 63.9 95.9#



#50

Toluene-d8

Concen: 53.990 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN081587.D

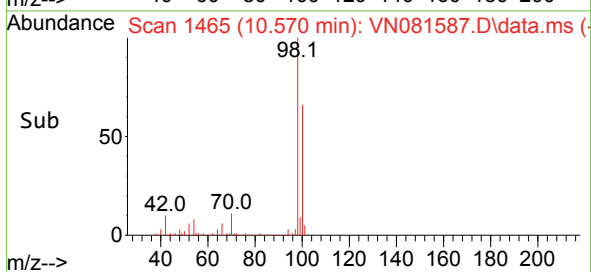
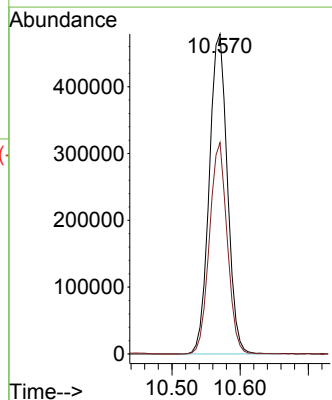
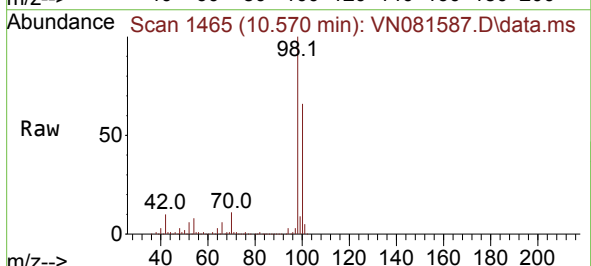
Acq: 27 Mar 2024 15:57

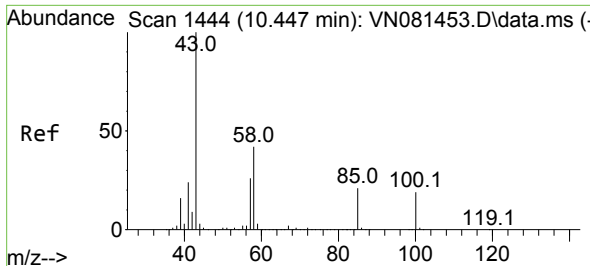
Tgt Ion: 98 Resp: 885205

Ion Ratio Lower Upper

98 100

100 64.8 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 2.946 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

Instrument :

MSVOA_N

ClientSampleId :

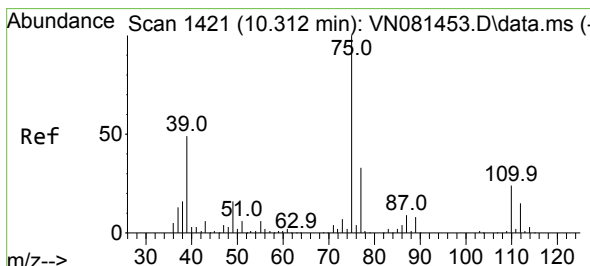
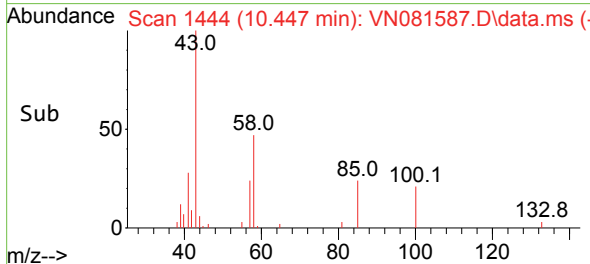
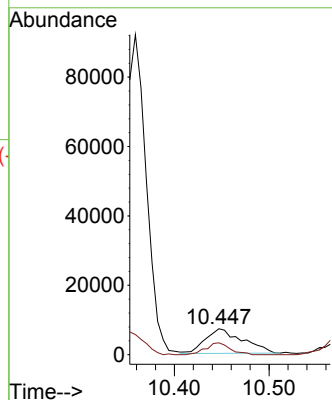
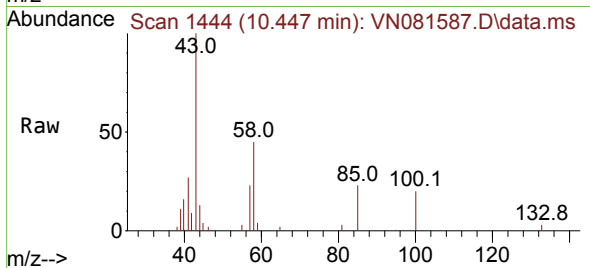
PB159779ZHE#03

Tgt Ion: 43 Resp: 19479

Ion Ratio Lower Upper

43 100

58 31.0 29.4 44.0



#54

cis-1,3-Dichloropropene

Concen: 8.875 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN081587.D

Acq: 27 Mar 2024 15:57

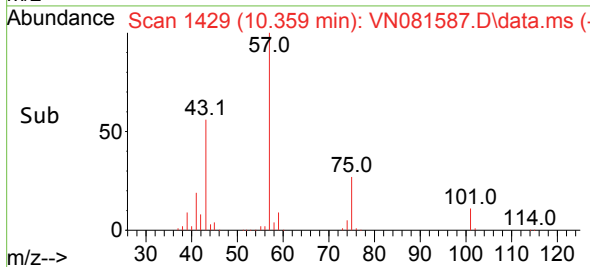
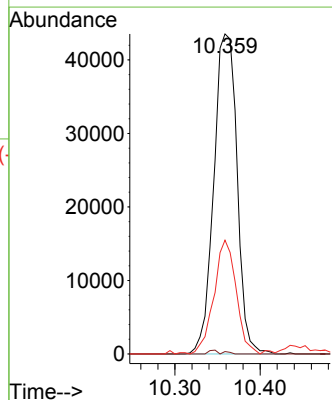
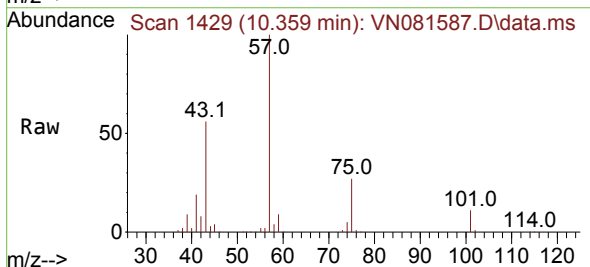
Tgt Ion: 75 Resp: 82504

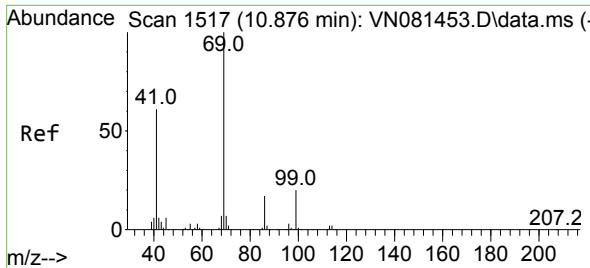
Ion Ratio Lower Upper

75 100

77 0.7 23.3 34.9#

39 35.2 44.6 66.8#

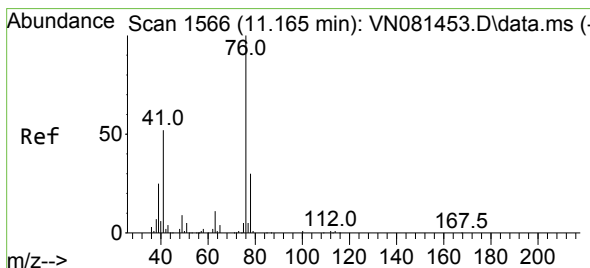
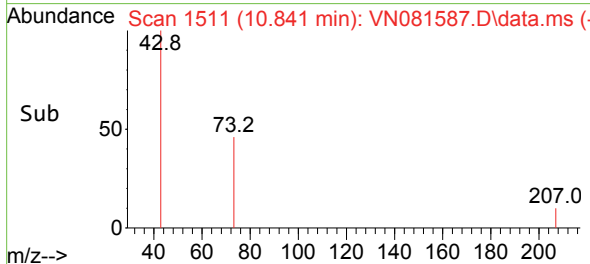
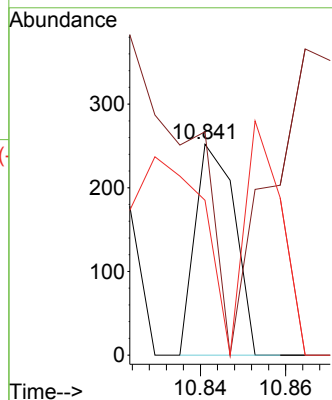
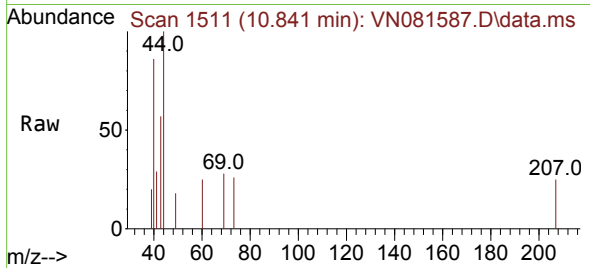




#56
Ethyl methacrylate
Concen: 0.591 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.035 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

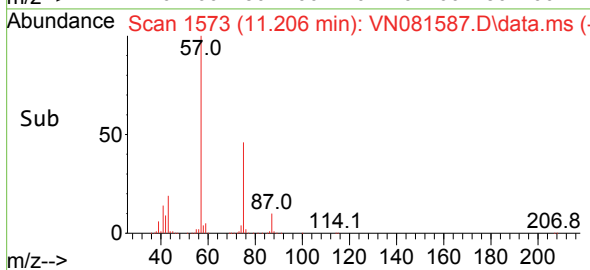
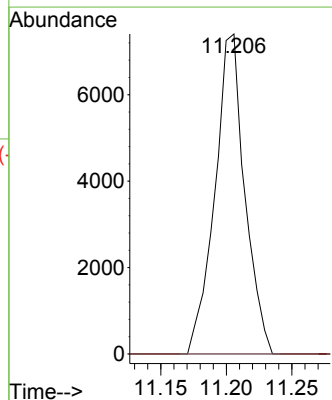
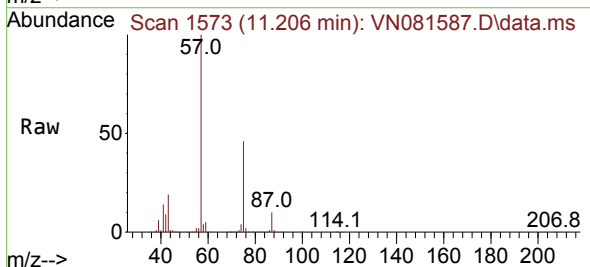
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

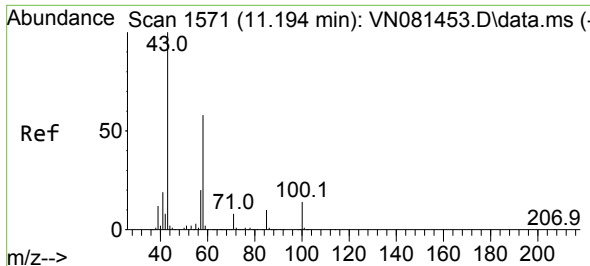
Tgt Ion: 69 Resp: 163
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 0.0 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.256 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 76 Resp: 11757
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

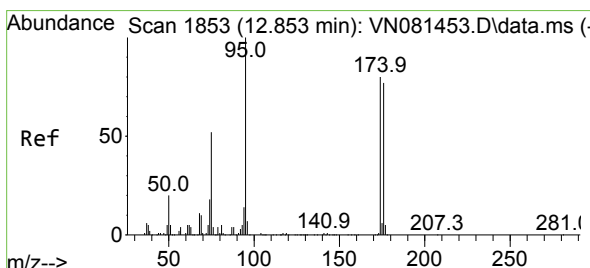
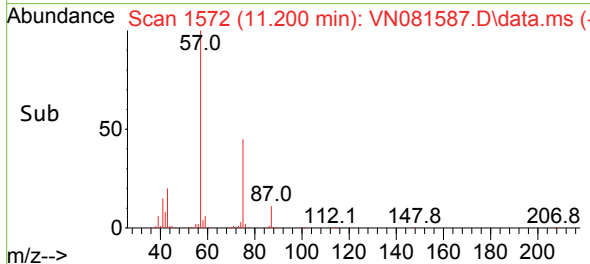
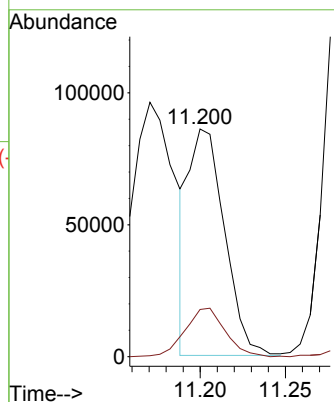
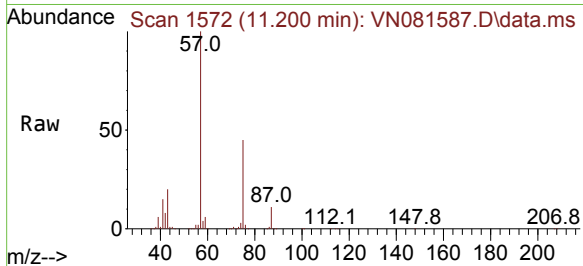




#59
2-Hexanone
Concen: 25.663 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

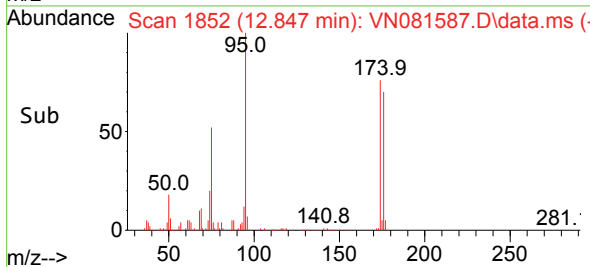
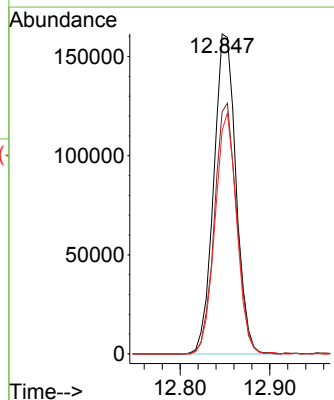
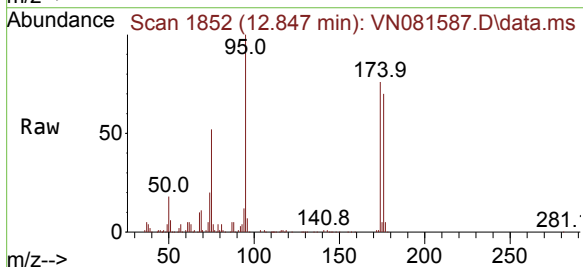
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

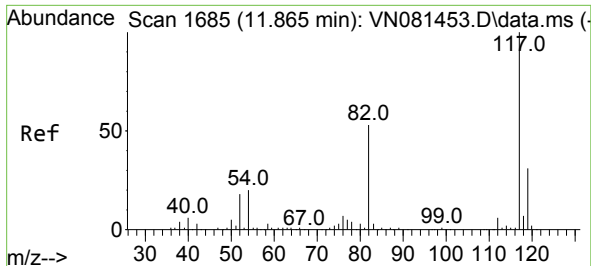
Tgt Ion: 43 Resp: 125434
Ion Ratio Lower Upper
43 100
58 24.1 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.157 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 95 Resp: 278217
Ion Ratio Lower Upper
95 100
174 78.3 0.0 120.4
176 73.4 0.0 121.0

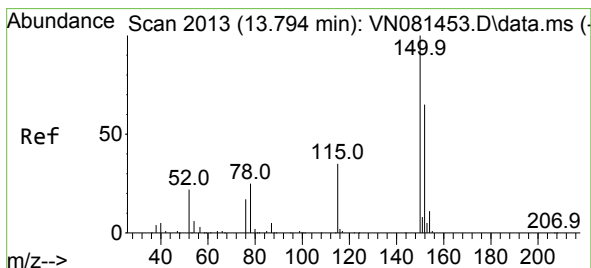
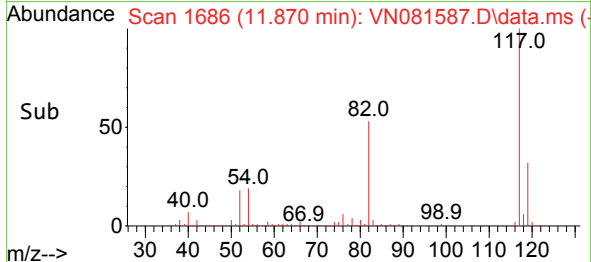
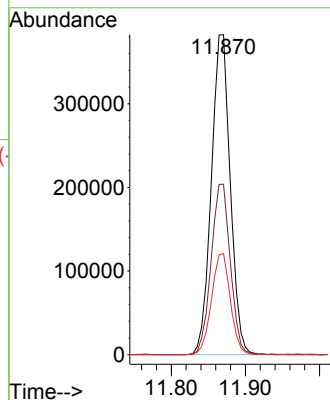
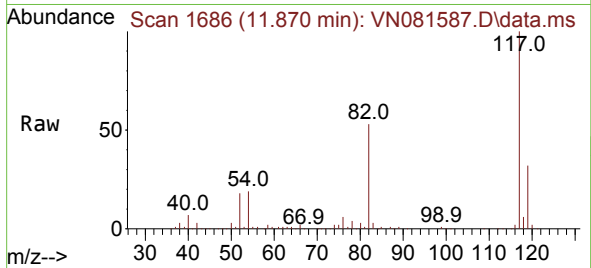




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

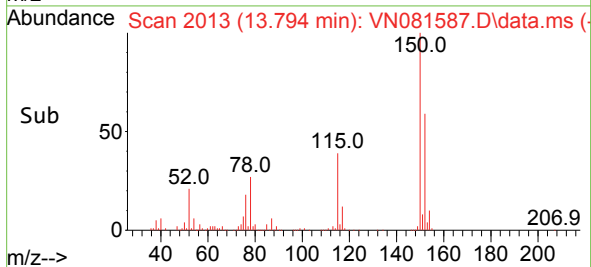
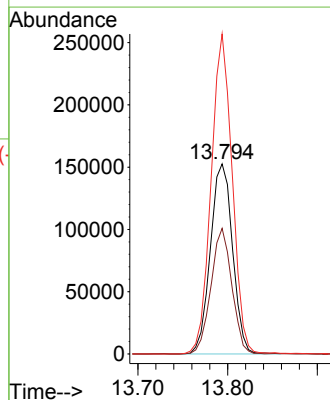
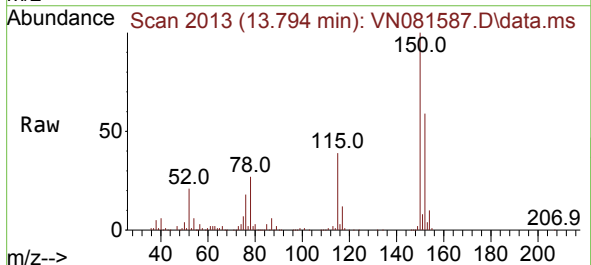
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

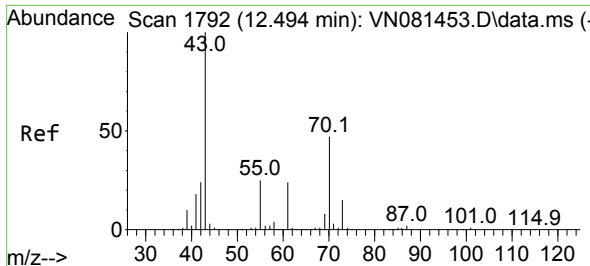
Tgt Ion:117 Resp: 678980
Ion Ratio Lower Upper
117 100
82 53.3 52.7 79.1
119 31.6 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion:152 Resp: 262112
Ion Ratio Lower Upper
152 100
115 62.2 32.3 96.8
150 160.0 0.0 339.8

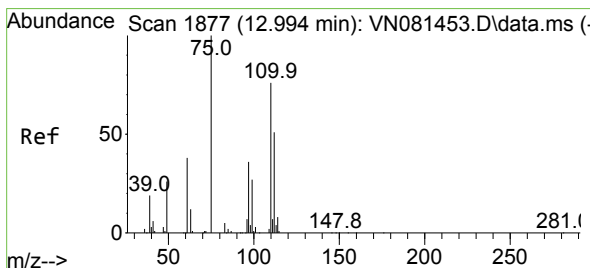
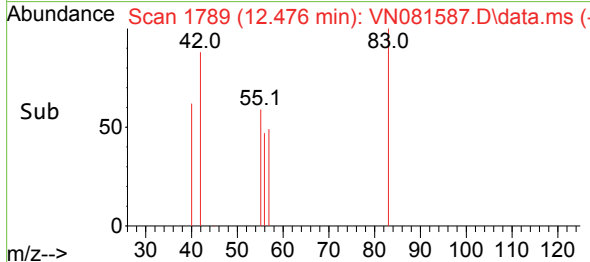
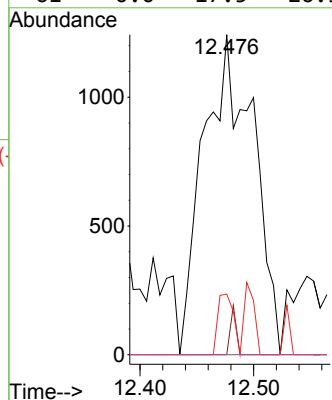
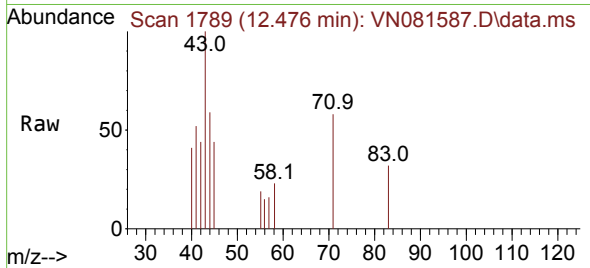




#74
N-amy1 acetate
Concen: 0.467 ug/l
RT: 12.476 min Scan# 1792
Delta R.T. -0.018 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

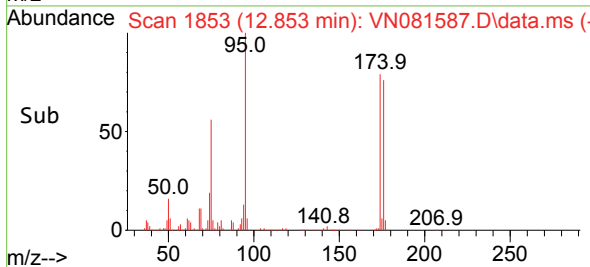
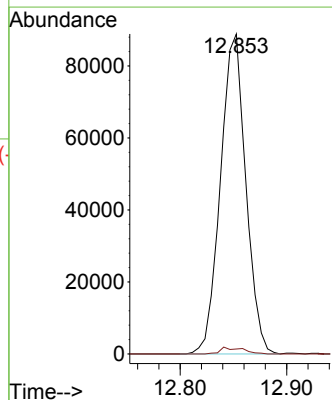
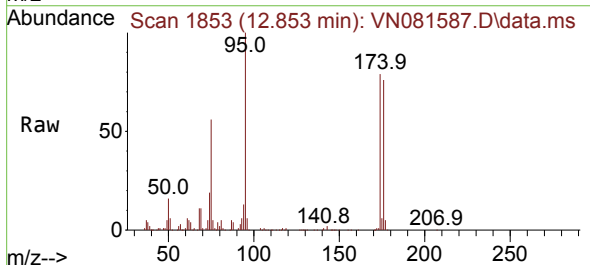
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

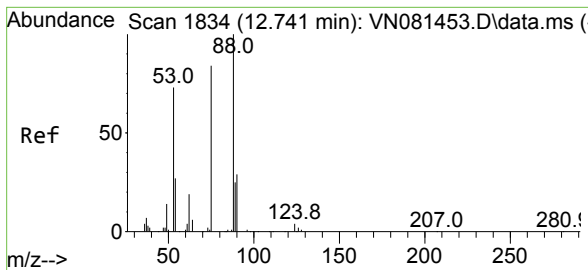
Tgt Ion: 43	Resp: 3775
Ion Ratio	Lower Upper
43 100	
70 1.8	30.1 45.1#
55 5.9	17.0 25.4#
61 0.0	17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 23.400 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 75	Resp: 146714
Ion Ratio	Lower Upper
75 100	
77 1.9	91.0 272.8#

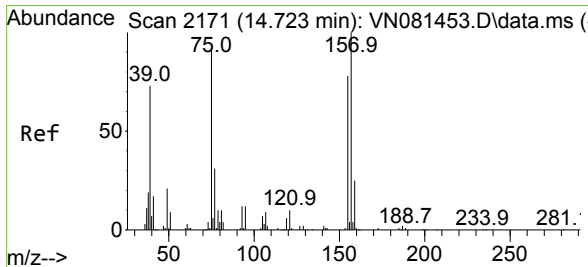
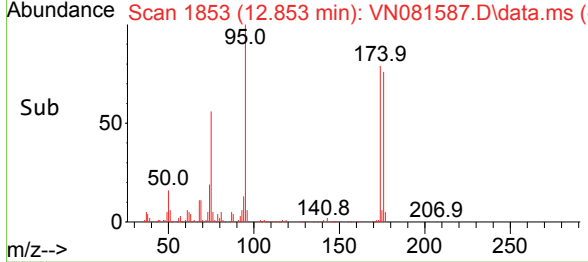
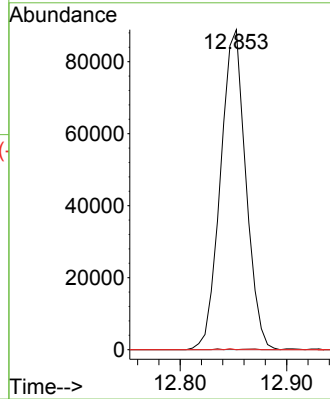
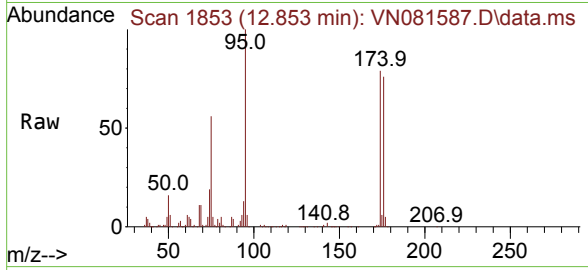




#81
trans-1,4-Dichloro-2-butene
Concen: 63.234 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#03

Tgt Ion: 75 Resp: 146714
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.1 33.4 50.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.205 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.024 min
Lab File: VN081587.D
Acq: 27 Mar 2024 15:57

Tgt Ion: 75 Resp: 287
Ion Ratio Lower Upper
75 100
155 0.0 31.8 95.4#
157 0.0 41.1 123.4#

