

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031924\
 Data File : VN081474.D
 Acq On : 19 Mar 2024 16:33
 Operator : JC\MD
 Sample : P1792-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11977

Quant Time: Mar 20 01:19:59 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)

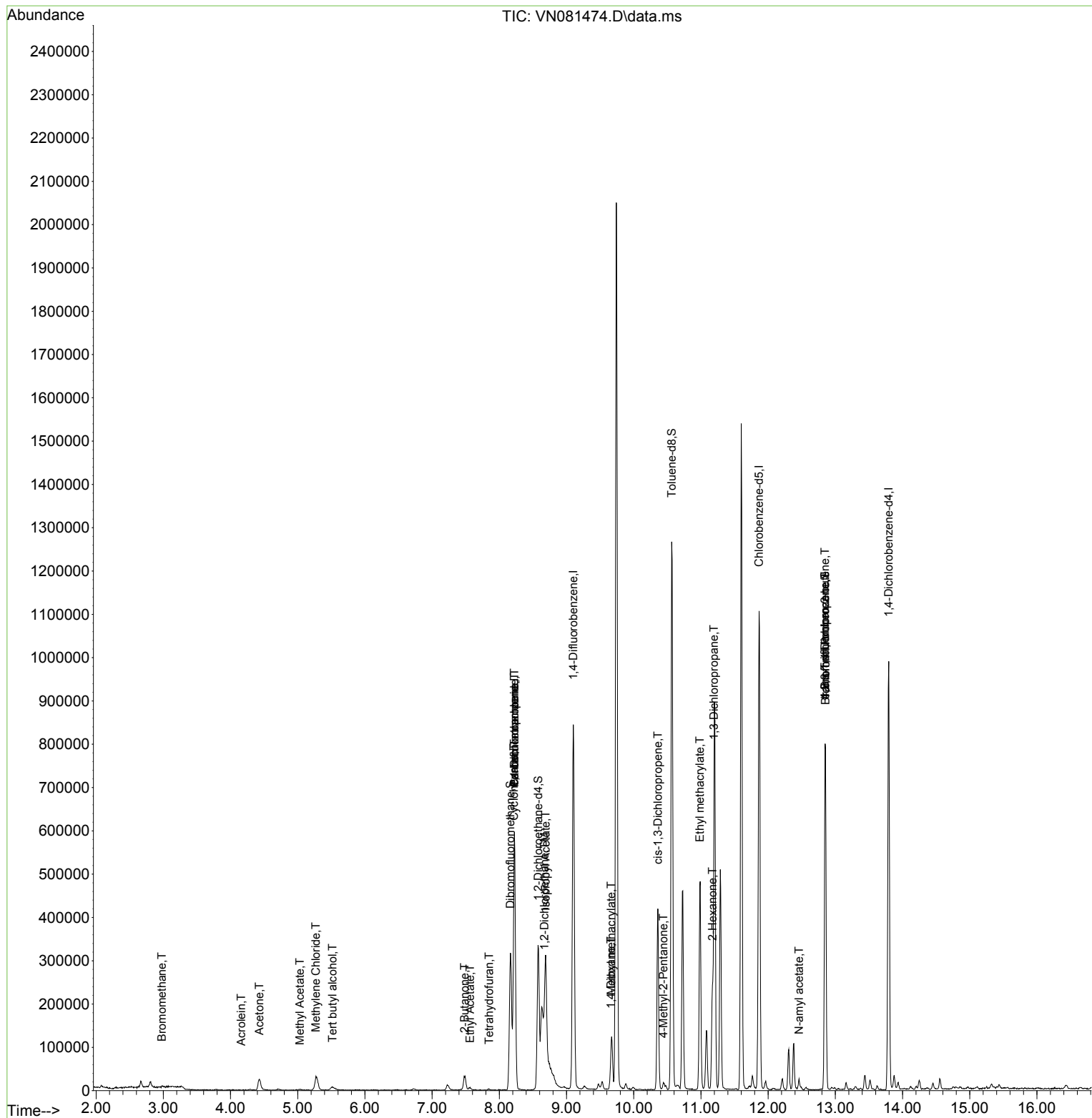
Internal Standards						
1) Pentafluorobenzene	8.224	168	414723	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	743240	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	657487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	268293	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	276958	52.367	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.740%			
35) Dibromofluoromethane	8.165	113	231260	49.303	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.600%			
50) Toluene-d8	10.565	98	888489	52.400	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.800%			
62) 4-Bromofluorobenzene	12.847	95	275743	46.152	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 92.300%			
Target Compounds						
						Qvalue
5) Bromomethane	2.977	94	1157	0.262	ug/l	# 81
11) Tert butyl alcohol	5.518	59	12309	13.355	ug/l	# 91
13) Acrolein	4.159	56	177	0.214	ug/l	# 66
16) Acetone	4.430	43	45860	26.831	ug/l	100
18) Methyl Acetate	5.030	43	2018	0.383	ug/l	# 65
20) Methylene Chloride	5.271	84	25500	4.555	ug/l	# 81
25) 2-Butanone	7.483	43	50192	17.121	ug/l	92
29) Tetrahydrofuran	7.847	42	1639	0.830	ug/l	# 82
31) Cyclohexane	8.218	56	9277	1.078	ug/l	# 19
36) 1,1-Dichloropropene	8.224	75	35146	4.452	ug/l	# 51
37) Ethyl Acetate	7.565	43	8290	1.226	ug/l	# 94
38) Carbon Tetrachloride	8.224	117	44862	5.188	ug/l	# 19
42) 1,2-Dichloroethane	8.671	62	2634	0.324	ug/l	# 75
43) Isopropyl Acetate	8.688	43	437550	39.052	ug/l	# 80
48) Methyl methacrylate	9.665	41	7999	1.548	ug/l	# 50
49) 1,4-Dioxane	9.659	88	114	0.918	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.441	43	9365	1.370	ug/l	# 82
54) cis-1,3-Dichloropropene	10.359	75	78471	8.162	ug/l	# 59
56) Ethyl methacrylate	10.982	69	2326	0.861	ug/l	# 1
57) 1,3-Dichloropropane	11.194	76	9269	0.958	ug/l	# 43
59) 2-Hexanone	11.171	43	179295	35.470	ug/l	# 26
71) Bromoform	12.853	173	2205	0.509	ug/l	# 1
74) N-amyl acetate	12.459	43	14286	1.726	ug/l	# 51
76) 1,2,3-Trichloropropane	12.847	75	148572	23.150	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	148572	62.560	ug/l	# 14

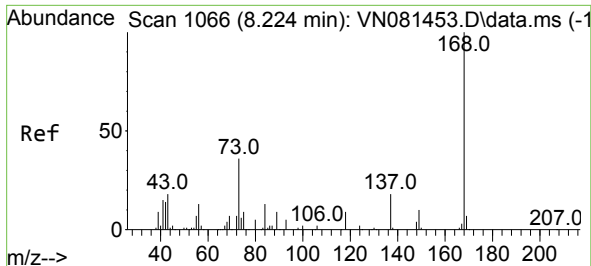
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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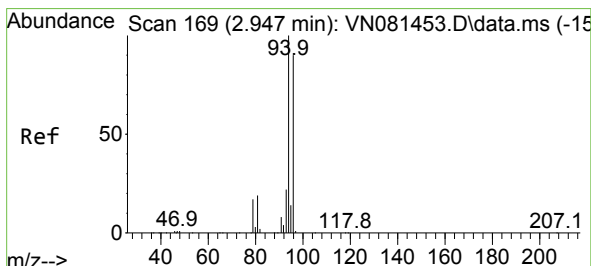
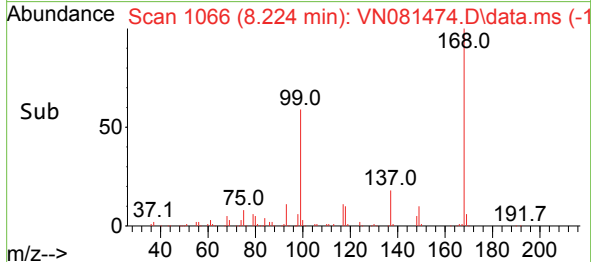
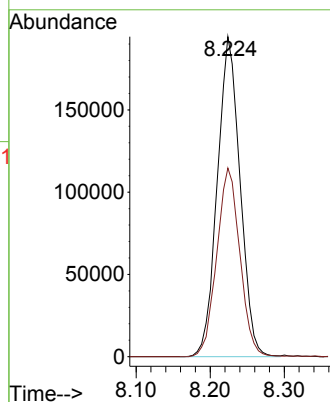
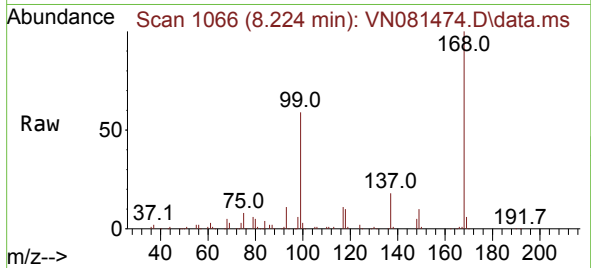




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

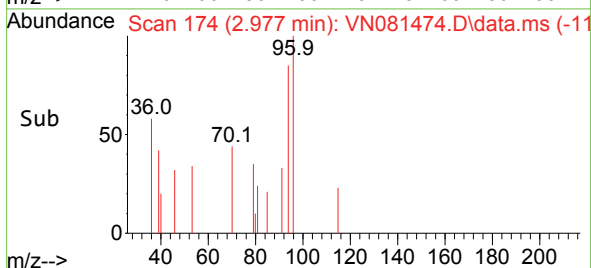
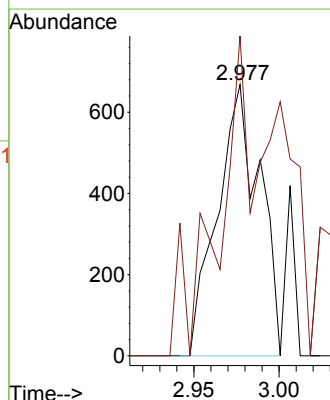
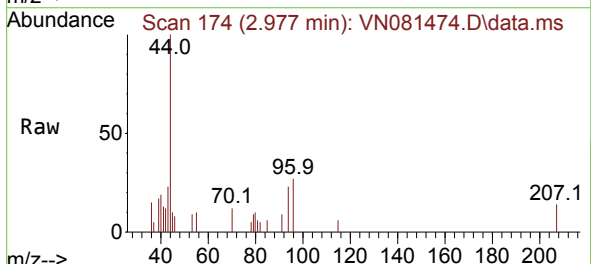
Instrument :
MSVOA_N
ClientSampleId :
72-11977

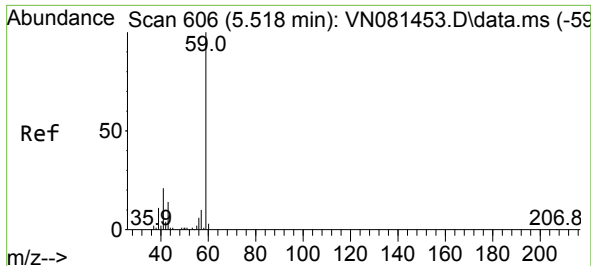
Tgt Ion:168 Resp: 414723
Ion Ratio Lower Upper
168 100
99 58.9 59.9 89.9#



#5
Bromomethane
Concen: 0.262 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.030 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 94 Resp: 1157
Ion Ratio Lower Upper
94 100
96 69.0 69.2 103.8#

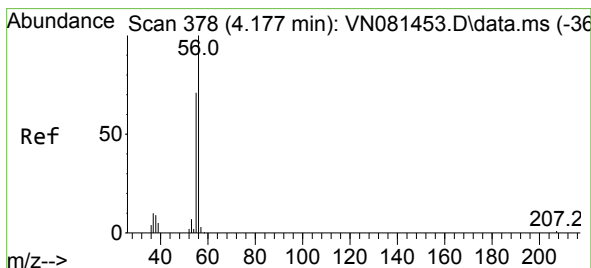
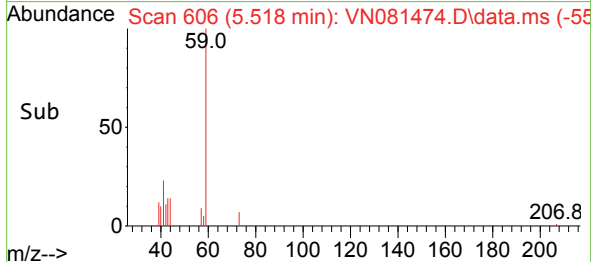
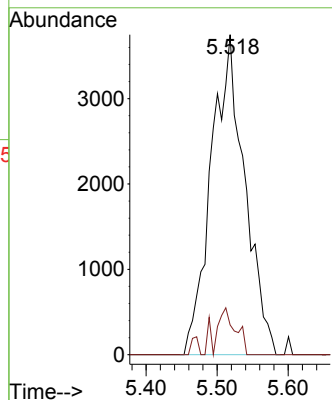
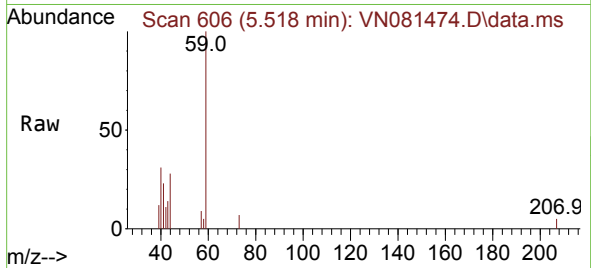




#11
Tert butyl alcohol
Concen: 13.355 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

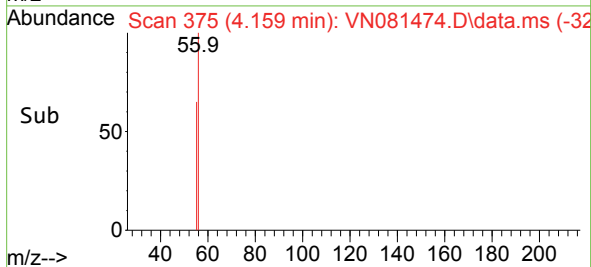
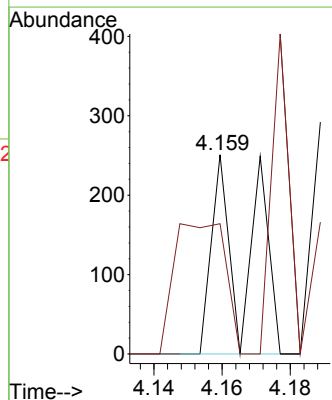
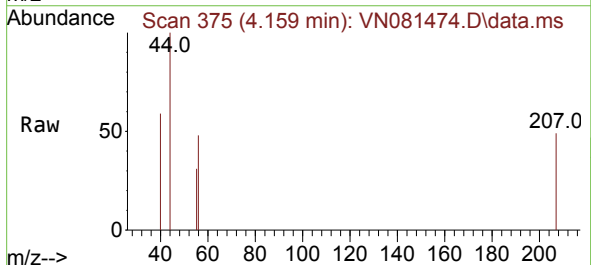
Instrument :
MSVOA_N
ClientSampleId :
72-11977

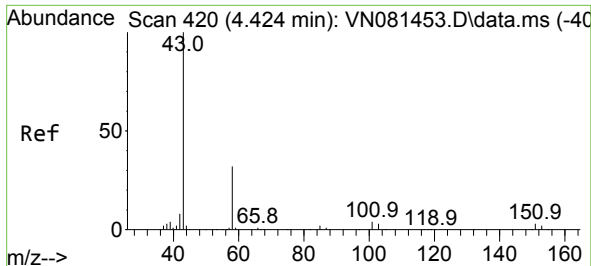
Tgt Ion: 59 Resp: 12309
Ion Ratio Lower Upper
59 100
57 7.3 8.6 12.8#



#13
Acrolein
Concen: 0.214 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.017 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 97.2 55.3 82.9#

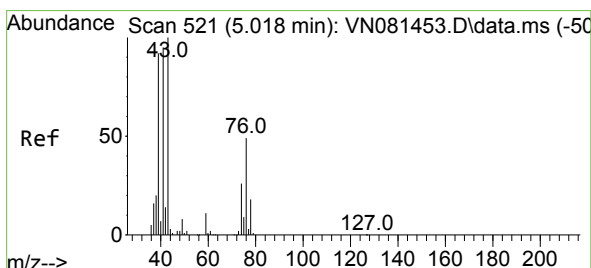
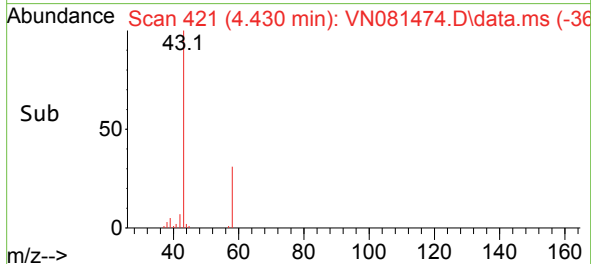
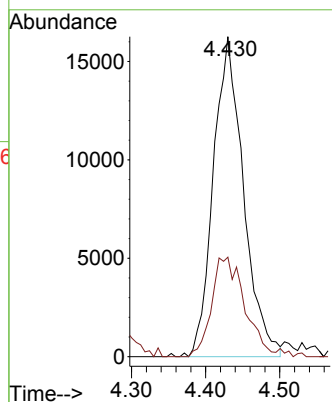
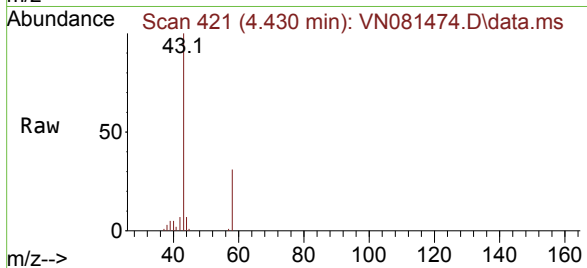




#16
Acetone
Concen: 26.831 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

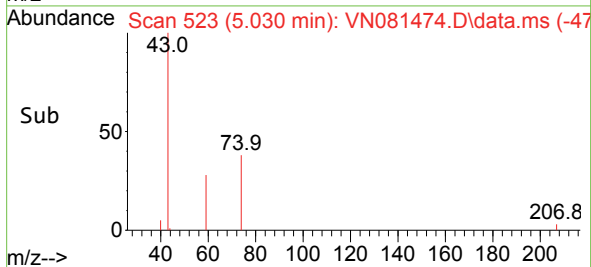
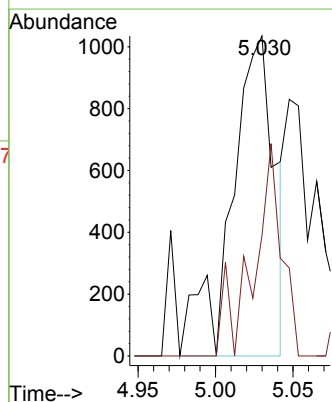
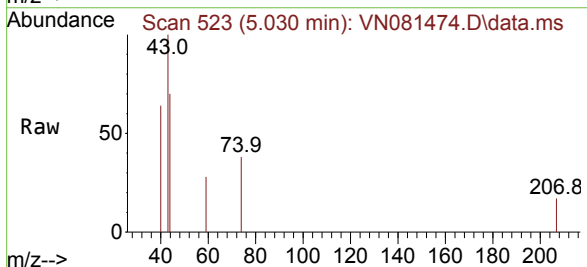
Instrument :
MSVOA_N
ClientSampleId :
72-11977

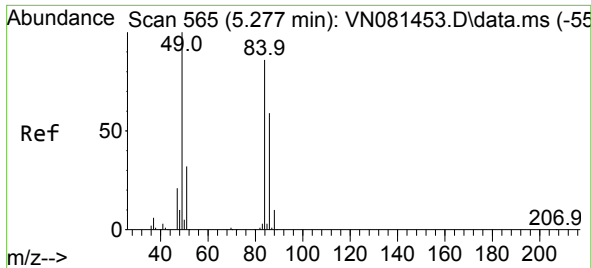
Tgt Ion: 43 Resp: 45860
Ion Ratio Lower Upper
43 100
58 31.1 24.8 37.2



#18
Methyl Acetate
Concen: 0.383 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 43 Resp: 2018
Ion Ratio Lower Upper
43 100
74 38.3 17.3 25.9#

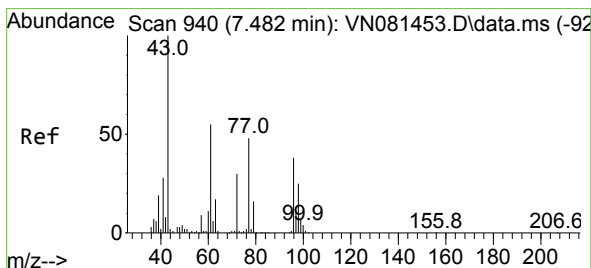
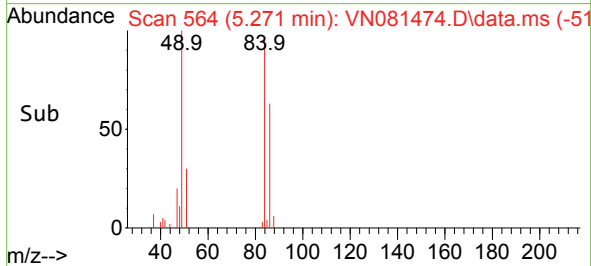
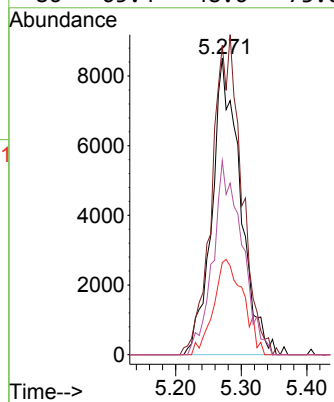
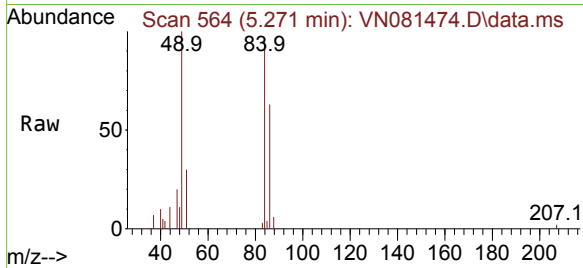




#20
Methylene Chloride
Concen: 4.555 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

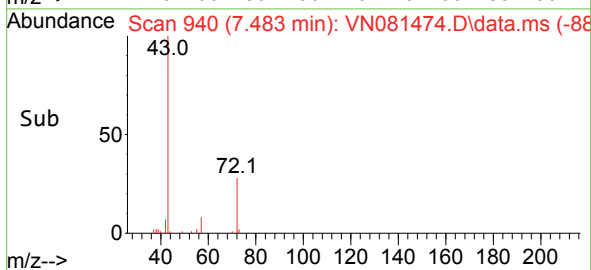
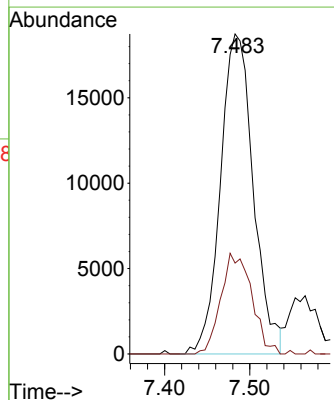
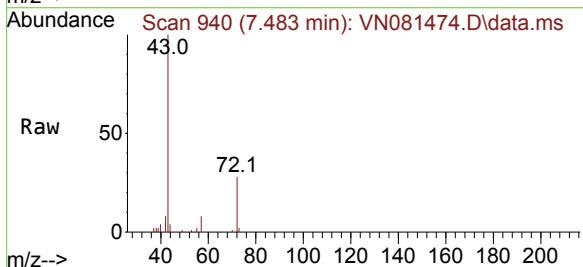
Instrument :
MSVOA_N
ClientSampleId :
72-11977

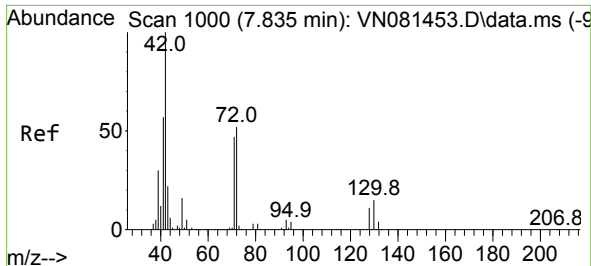
Tgt Ion: 84 Resp: 25500
Ion Ratio Lower Upper
84 100
49 104.3 108.1 162.1#
51 31.1 32.9 49.3#
86 65.4 48.6 73.0



#25
2-Butanone
Concen: 17.121 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 43 Resp: 50192
Ion Ratio Lower Upper
43 100
72 28.4 19.5 29.3





#29

Tetrahydrofuran

Concen: 0.830 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN081474.D

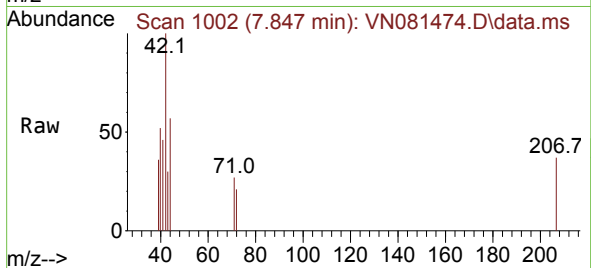
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Instrument :

MSVOA_N

ClientSampleId :

72-11977



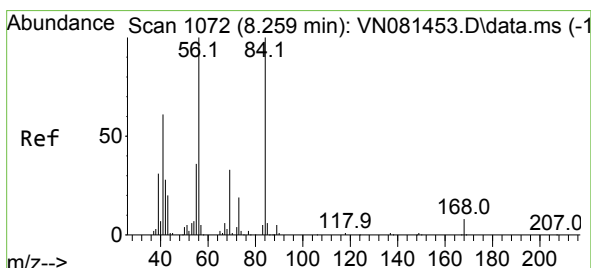
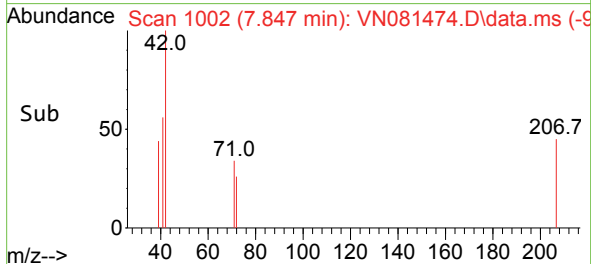
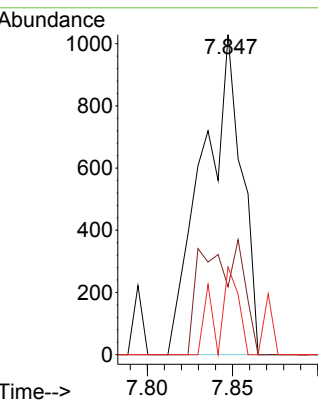
Tgt Ion: 42 Resp: 1639

Ion Ratio Lower Upper

42 100

72 37.2 31.1 46.7

71 15.1 28.3 42.5#



#31

Cyclohexane

Concen: 1.078 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

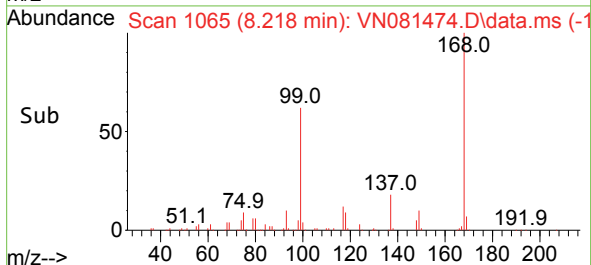
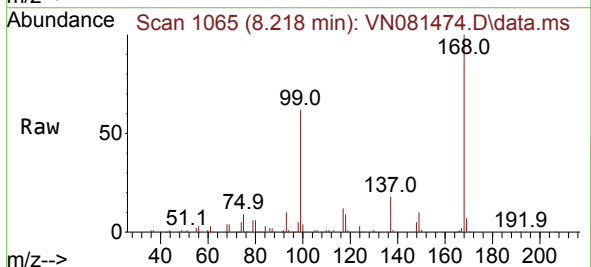
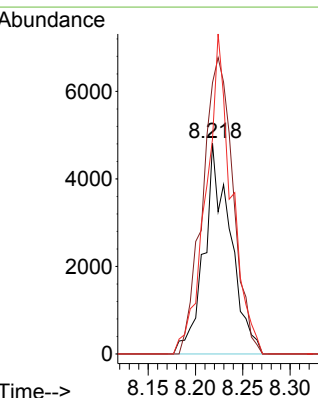
Tgt Ion: 56 Resp: 9277

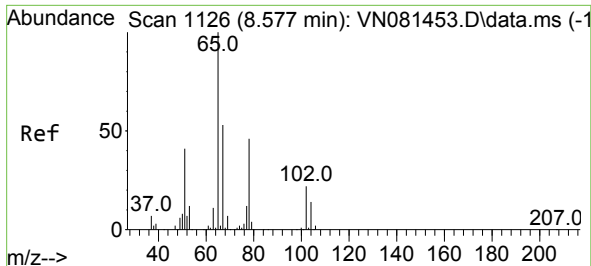
Ion Ratio Lower Upper

56 100

69 128.7 20.1 30.1#

84 102.0 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 52.367 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

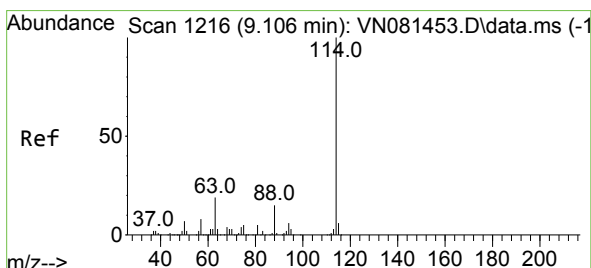
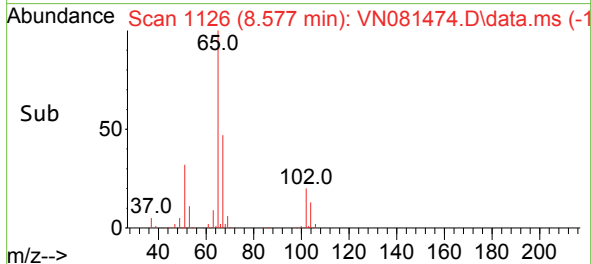
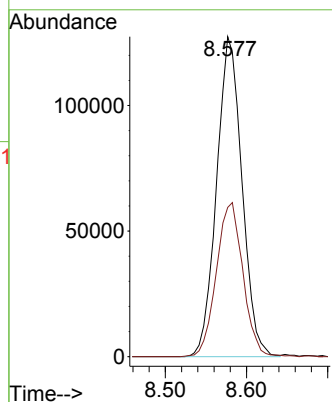
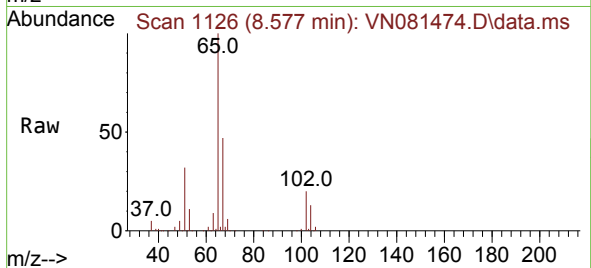
72-11977

Tgt Ion: 65 Resp: 276958

Ion Ratio Lower Upper

65 100

67 50.4 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: VN081474.D

Acq: 19 Mar 2024 16:33

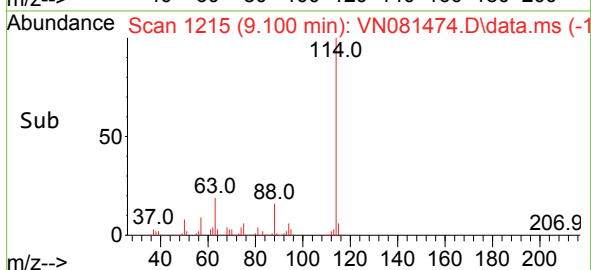
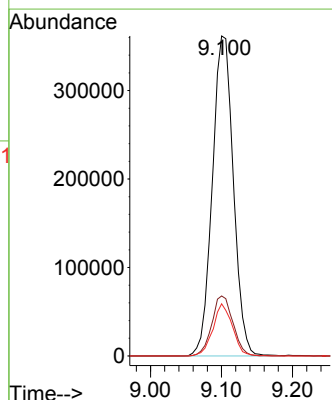
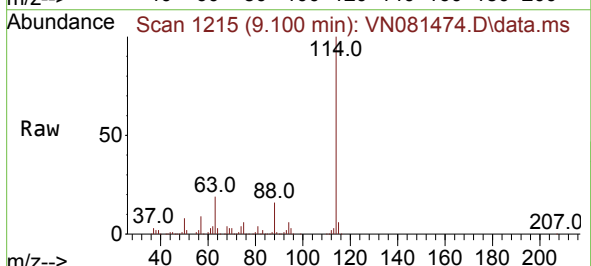
Tgt Ion: 114 Resp: 743240

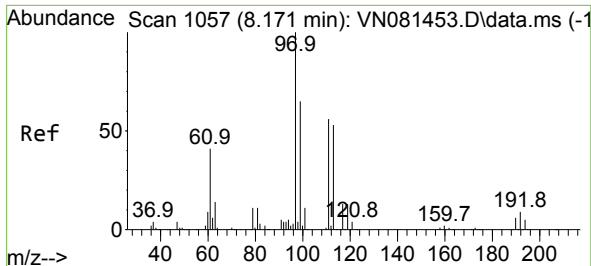
Ion Ratio Lower Upper

114 100

63 18.8 0.0 48.0

88 16.3 0.0 34.8





#35

Dibromofluoromethane

Concen: 49.303 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

72-11977

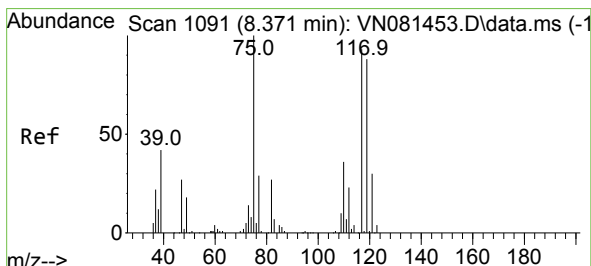
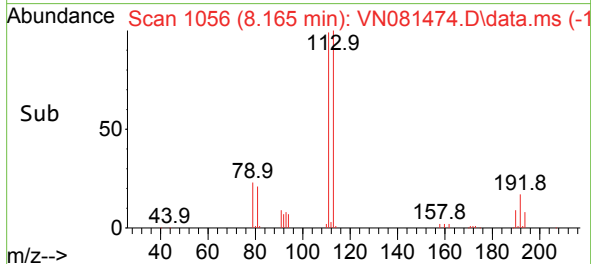
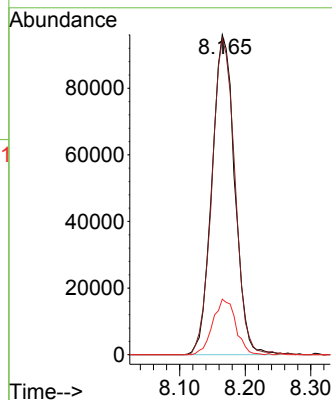
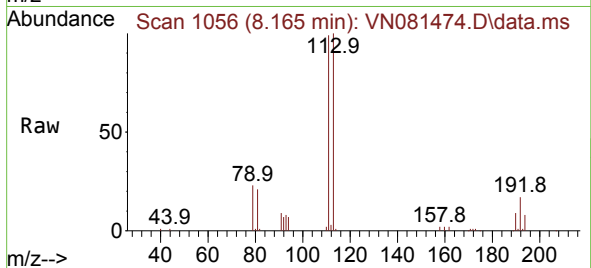
Tgt Ion:113 Resp: 231260

Ion Ratio Lower Upper

113 100

111 100.0 82.2 123.4

192 17.5 12.5 18.7



#36

1,1-Dichloropropene

Concen: 4.452 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

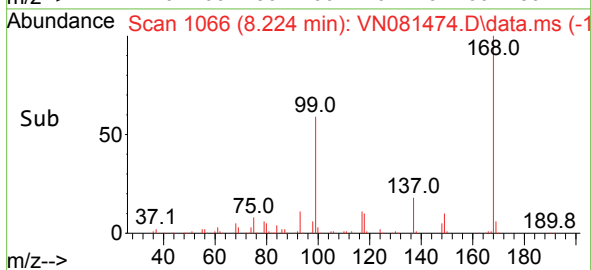
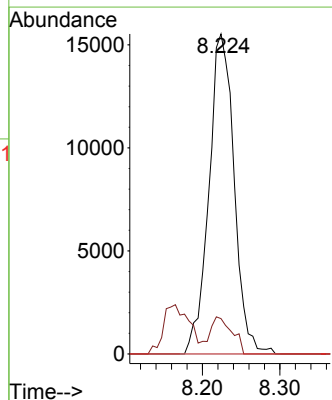
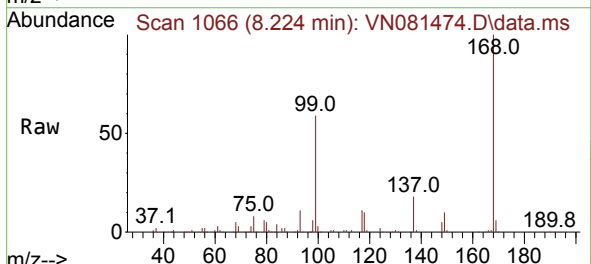
Tgt Ion: 75 Resp: 35146

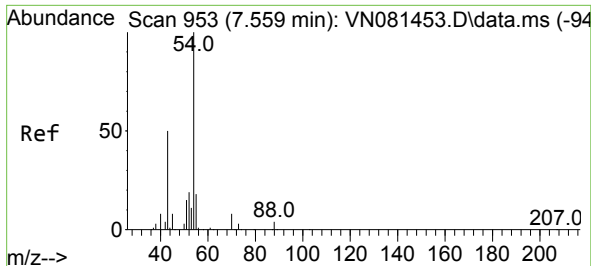
Ion Ratio Lower Upper

75 100

110 9.3 16.0 48.0#

77 0.0 25.8 38.6#

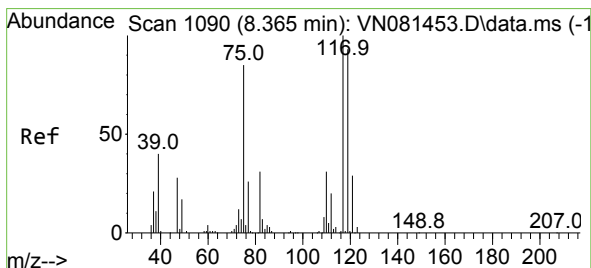
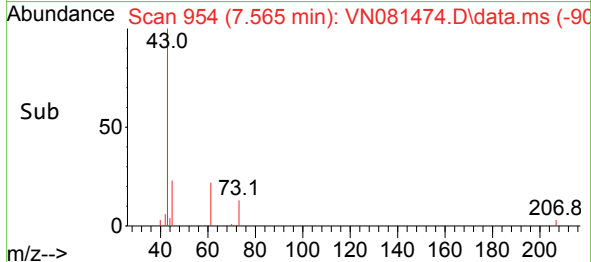
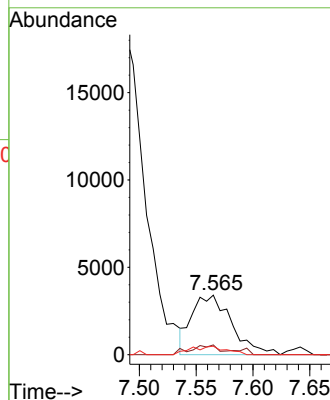
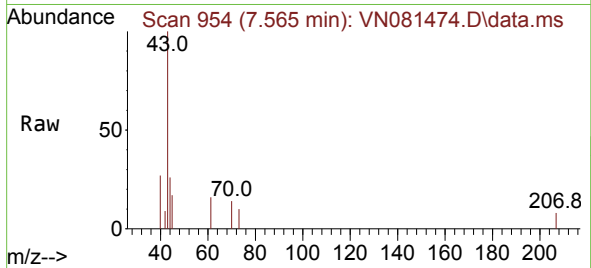




#37
Ethyl Acetate
Concen: 1.226 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

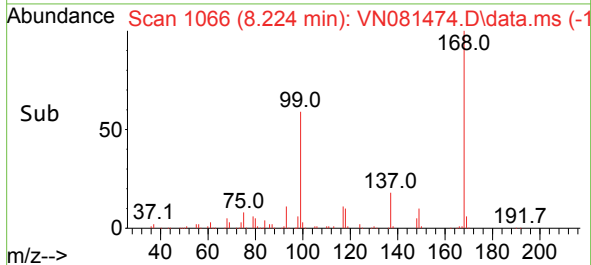
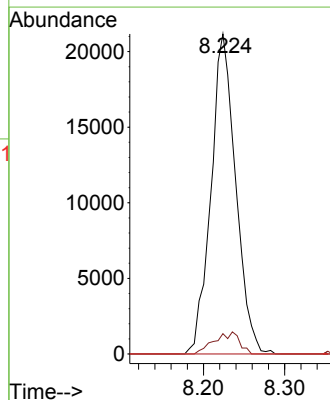
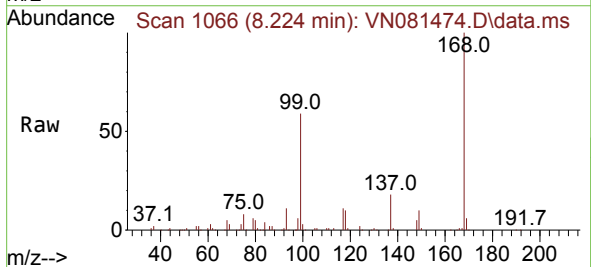
Instrument :
MSVOA_N
ClientSampleId :
72-11977

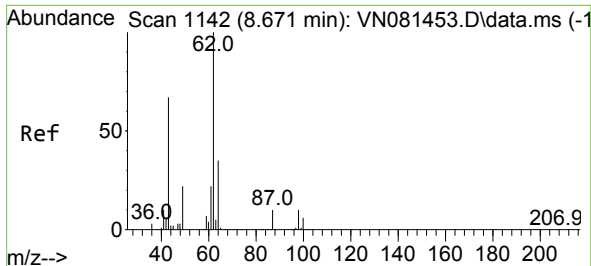
Tgt Ion: 43 Resp: 8290
Ion Ratio Lower Upper
43 100
61 11.6 10.6 15.8
70 12.8 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 5.188 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 117 Resp: 44862
Ion Ratio Lower Upper
117 100
119 6.3 73.4 110.2#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.324 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

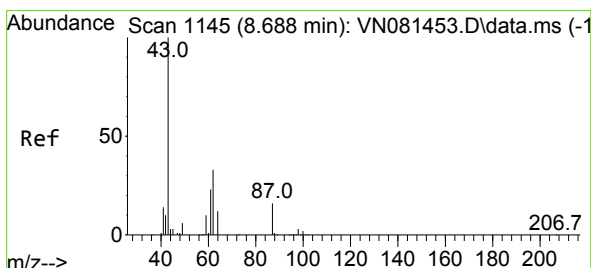
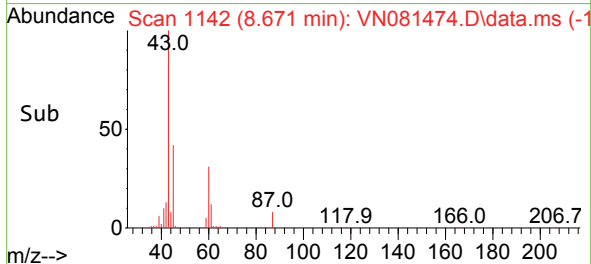
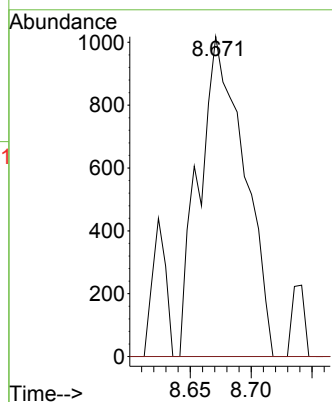
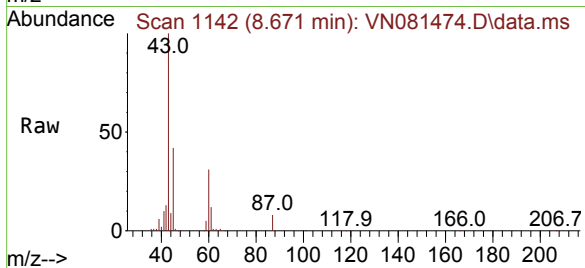
72-11977

Tgt Ion: 62 Resp: 2634

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 39.052 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

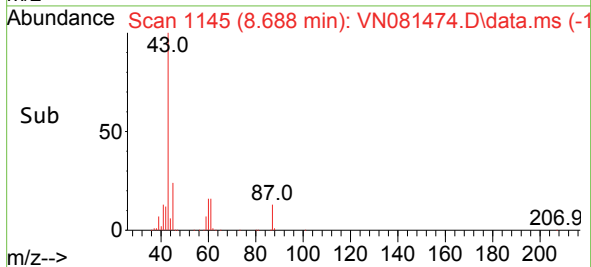
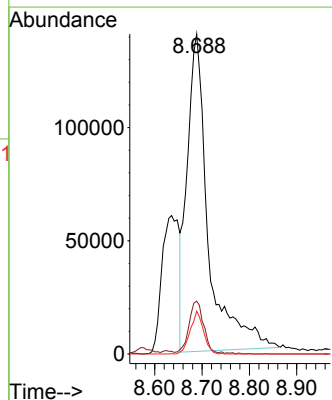
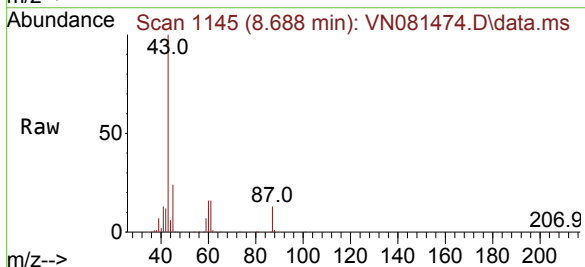
Tgt Ion: 43 Resp: 437550

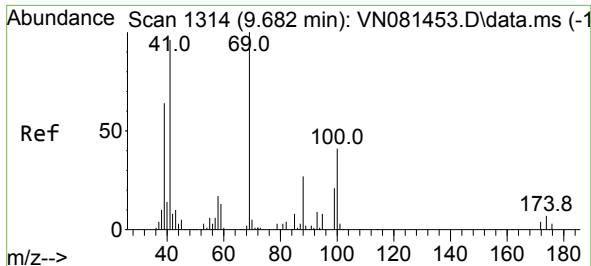
Ion Ratio Lower Upper

43 100

61 11.8 19.9 29.9#

87 8.4 9.0 13.6#

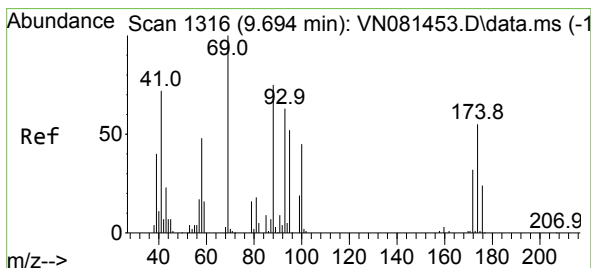
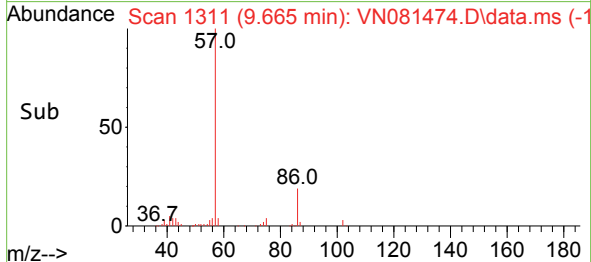
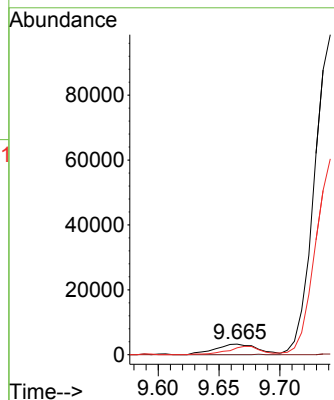
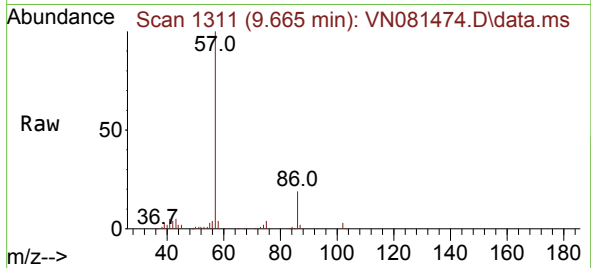




#48
Methyl methacrylate
Concen: 1.548 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

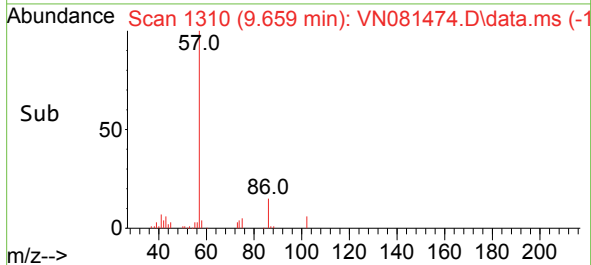
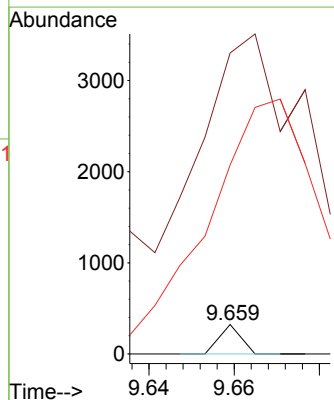
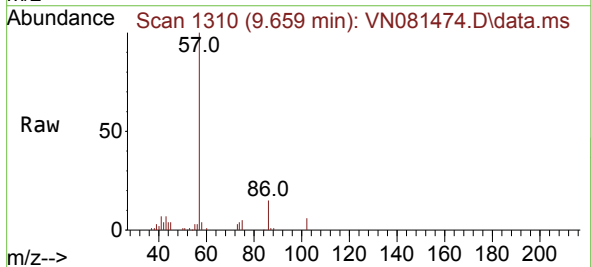
Instrument :
MSVOA_N
ClientSampleId :
72-11977

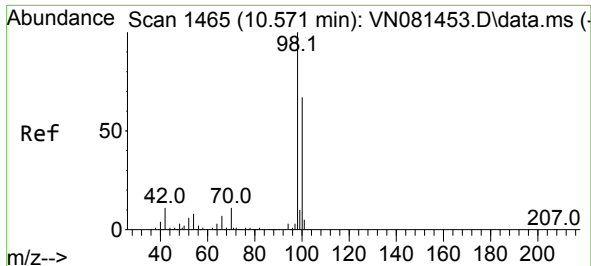
Tgt Ion: 41 Resp: 7999
Ion Ratio Lower Upper
41 100
69 0.8 62.2 93.2#
39 60.0 47.6 71.4



#49
1,4-Dioxane
Concen: 0.918 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.035 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 4940.4 63.9 95.9#

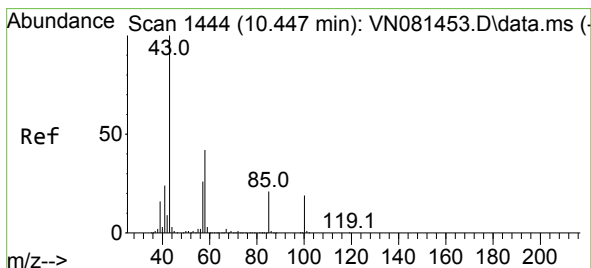
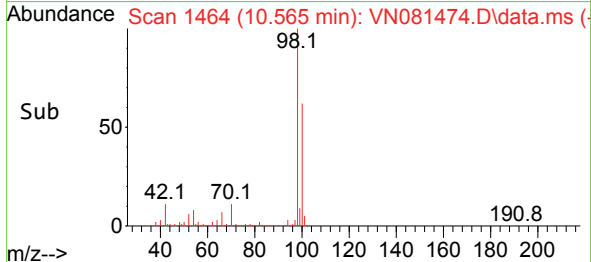
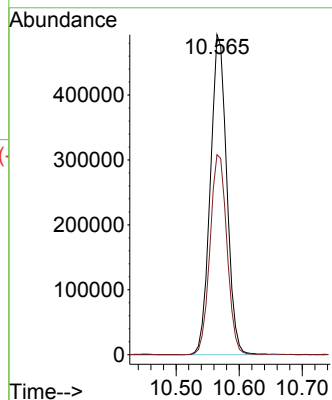
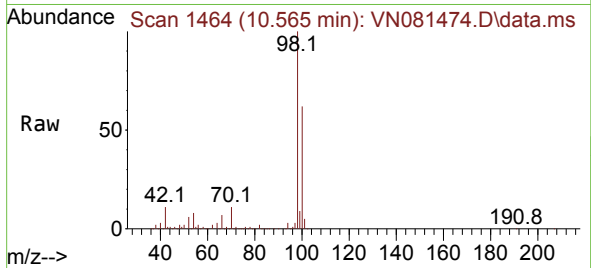




#50
Toluene-d8
Concen: 52.400 ug/l
RT: 10.565 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

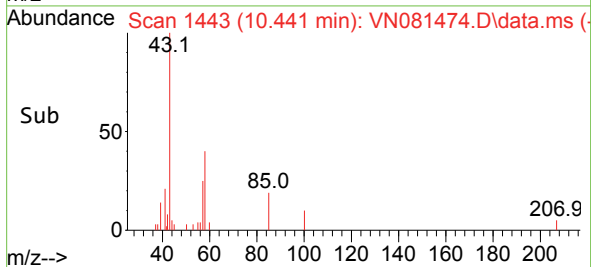
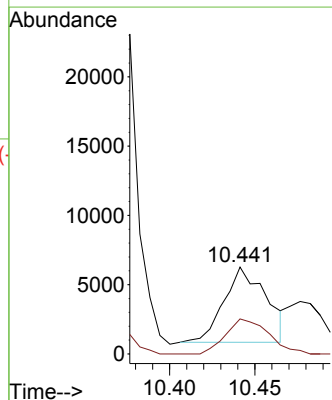
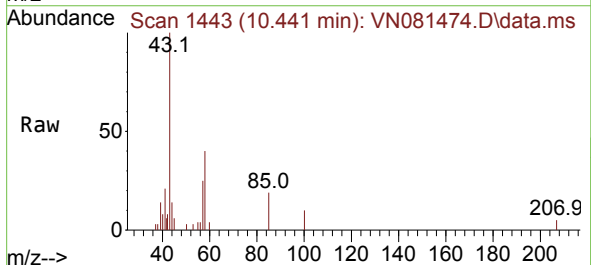
Instrument :
MSVOA_N
ClientSampleId :
72-11977

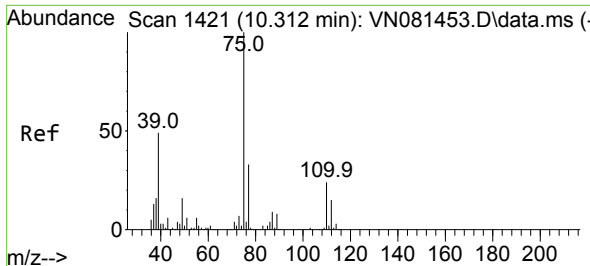
Tgt Ion: 98 Resp: 888489
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.370 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081474.D
Acq: 19 Mar 2024 16:33

Tgt Ion: 43 Resp: 9365
Ion Ratio Lower Upper
43 100
58 47.5 29.4 44.0#

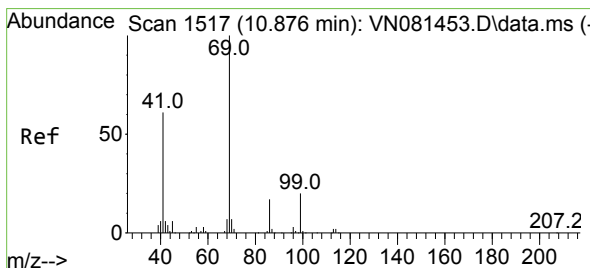
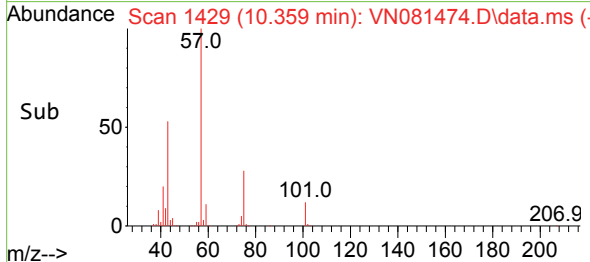
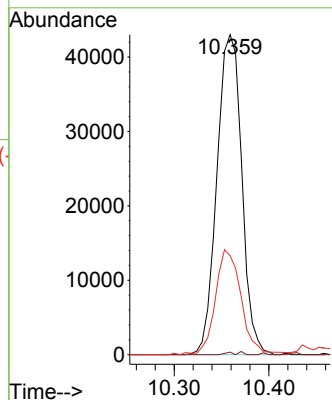
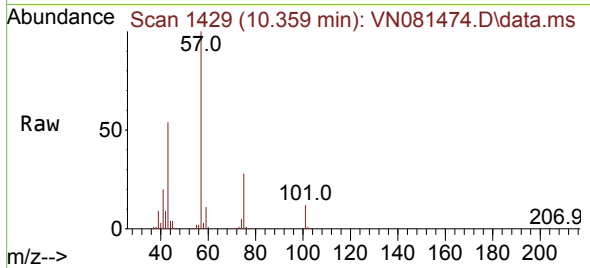




#54
 cis-1,3-Dichloropropene
 Concen: 8.162 ug/l
 RT: 10.359 min Scan# 1421
 Delta R.T. 0.047 min
 Lab File: VN081474.D
 Acq: 19 Mar 2024 16:33

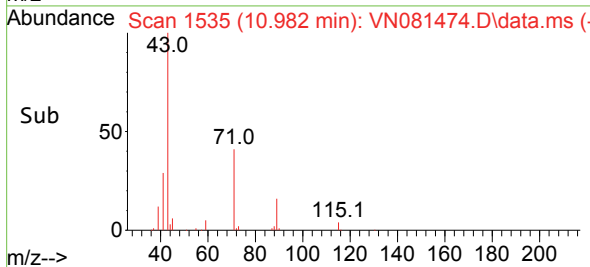
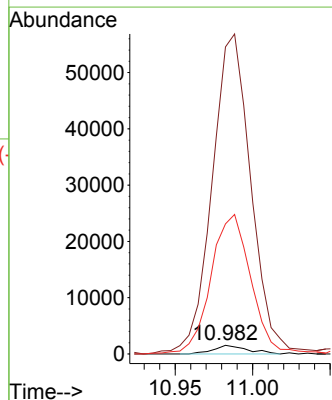
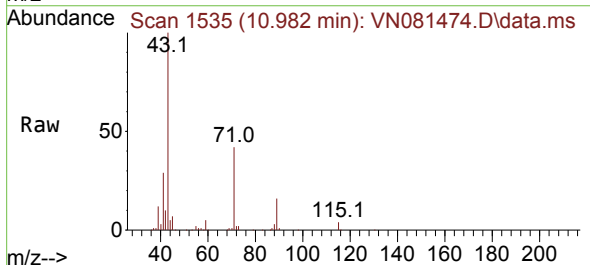
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11977

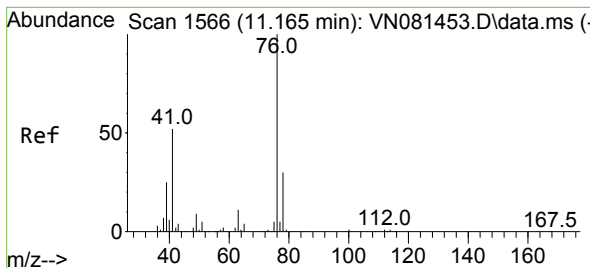
Tgt Ion: 75 Resp: 78471
 Ion Ratio Lower Upper
 75 100
 77 0.8 23.3 34.9#
 39 30.9 44.6 66.8#



#56
 Ethyl methacrylate
 Concen: 0.861 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.106 min
 Lab File: VN081474.D
 Acq: 19 Mar 2024 16:33

Tgt Ion: 69 Resp: 2326
 Ion Ratio Lower Upper
 69 100
 41 4278.1 61.0 91.6#
 39 1921.8 31.8 47.6#





#57

1,3-Dichloropropane

Concen: 0.958 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.030 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

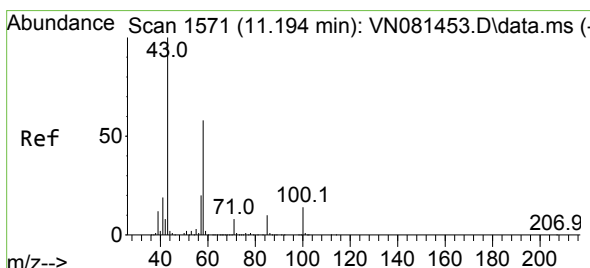
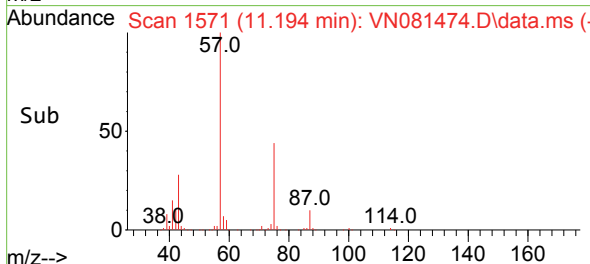
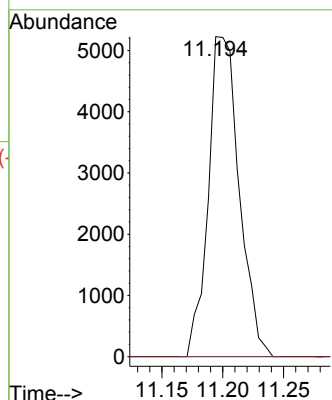
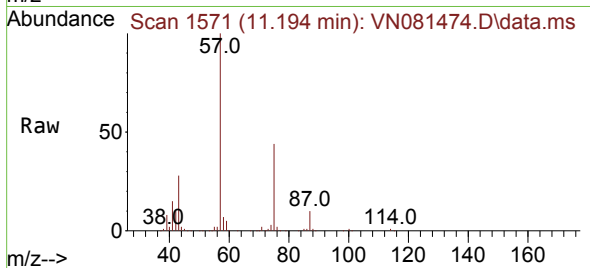
72-11977

Tgt Ion: 76 Resp: 9269

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 35.470 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN081474.D

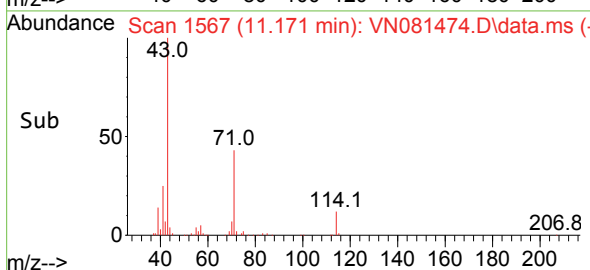
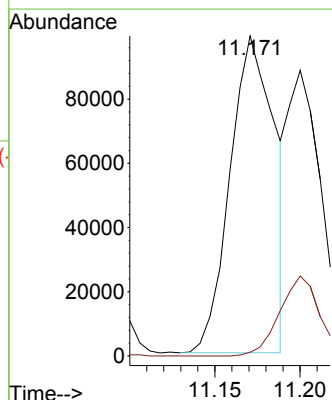
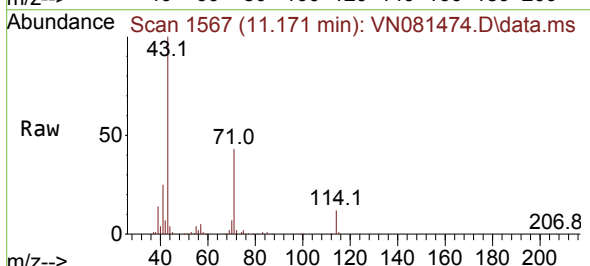
Acq: 19 Mar 2024 16:33

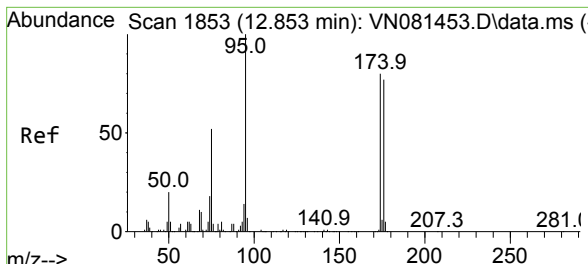
Tgt Ion: 43 Resp: 179295

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

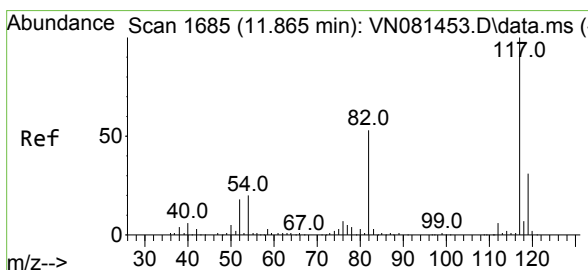
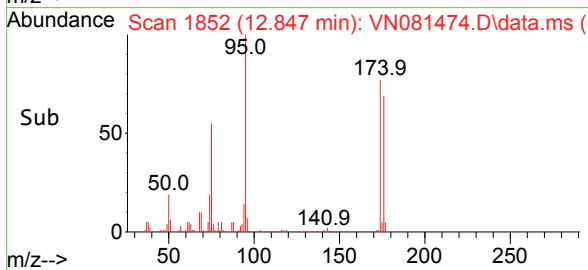
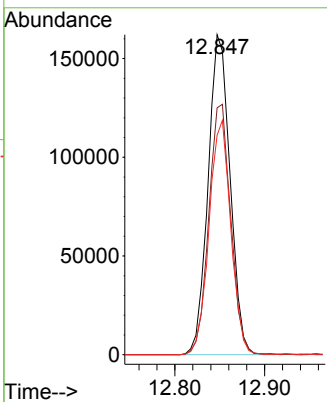
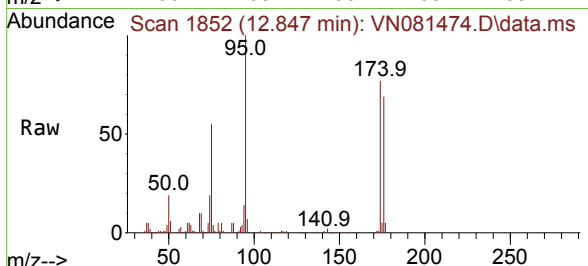




#62
 4-Bromofluorobenzene
 Concen: 46.152 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: VN081474.D
 Acq: 19 Mar 2024 16:33

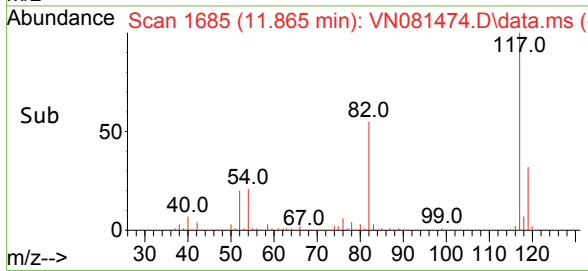
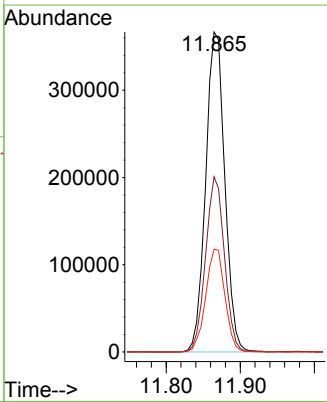
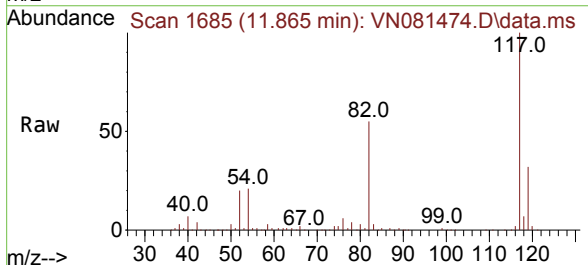
Instrument : MSVOA_N
 ClientSampleId : 72-11977

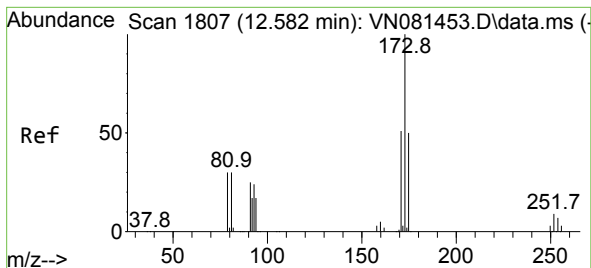
Tgt Ion:	95	Resp:	275743
Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	120.4
176	72.4	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081474.D
 Acq: 19 Mar 2024 16:33

Tgt Ion:	117	Resp:	657487
Ion	Ratio	Lower	Upper
117	100		
82	54.8	52.7	79.1
119	32.2	25.3	37.9





#71

Bromoform

Concen: 0.509 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

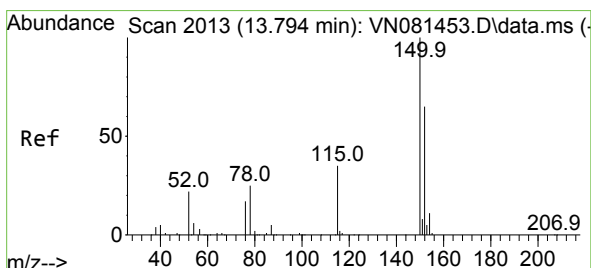
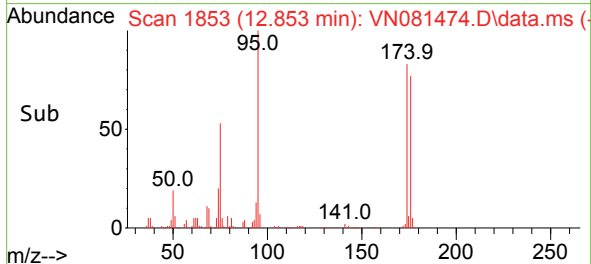
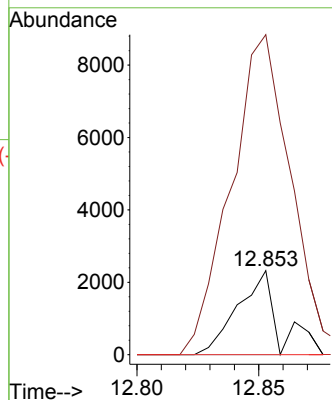
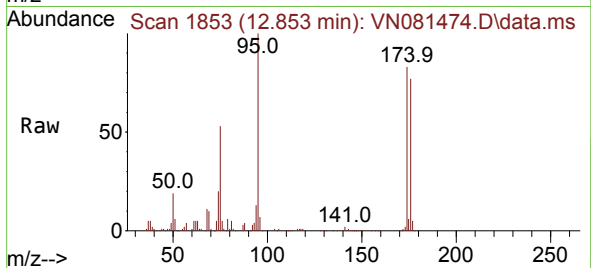
Instrument :

MSVOA_N

ClientSampleId :

72-11977

Tgt Ion:	173	Resp:	2205
Ion Ratio	Lower	Upper	
173	100		
175	561.7	23.1	69.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

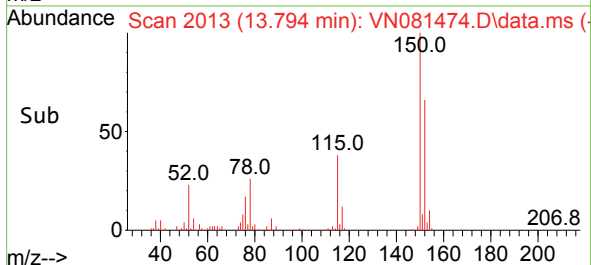
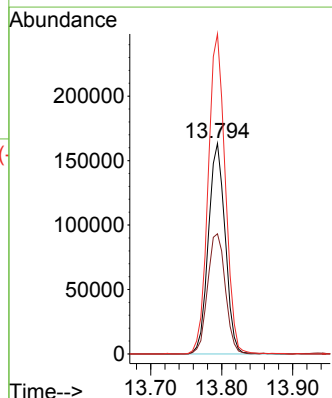
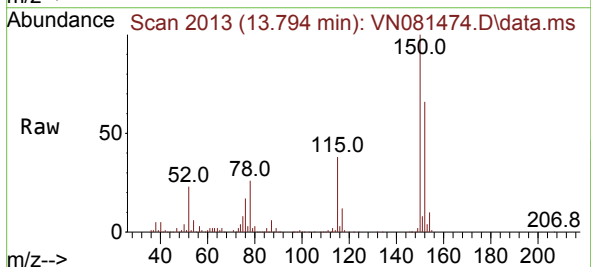
RT: 13.794 min Scan# 2013

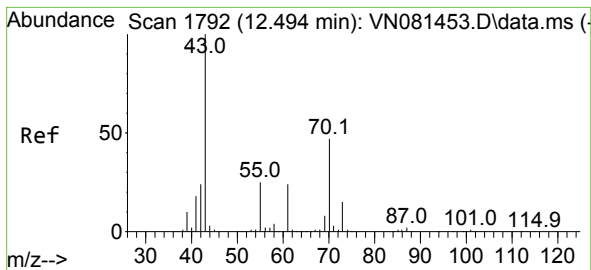
Delta R.T. 0.000 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Tgt Ion:	152	Resp:	268293
Ion Ratio	Lower	Upper	
152	100		
115	60.4	32.3	96.8
150	154.7	0.0	339.8





#74

N-amy1 acetate

Concen: 1.726 ug/l

RT: 12.459 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN081474.D

Acq: 19 Mar 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

72-11977

Tgt Ion: 43 Resp: 14286

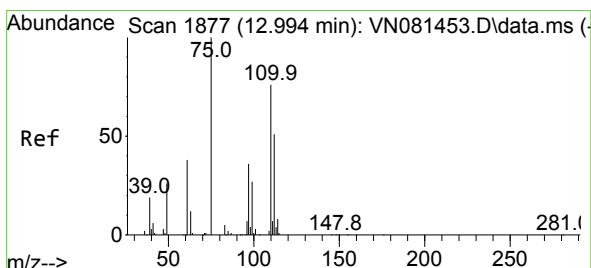
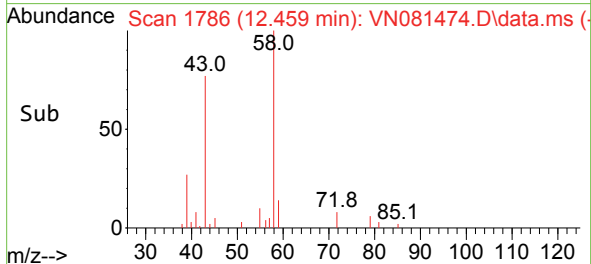
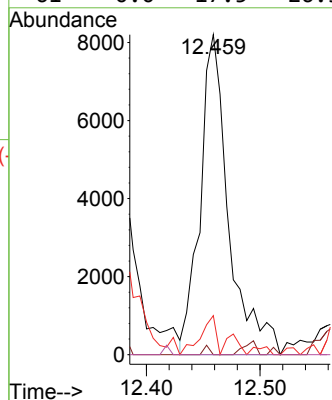
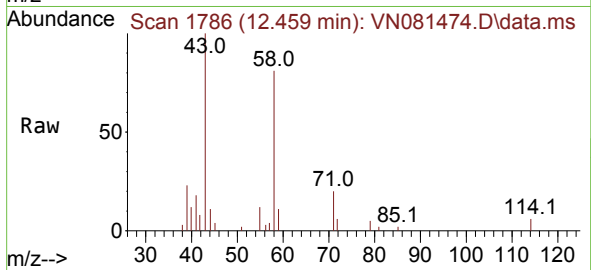
Ion Ratio Lower Upper

43 100

70 0.0 30.1 45.1#

55 7.6 17.0 25.4#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 23.150 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081474.D

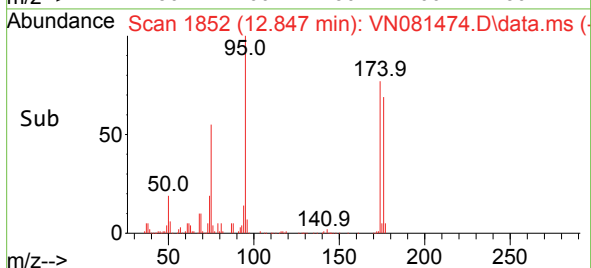
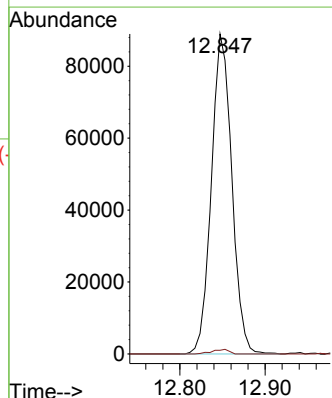
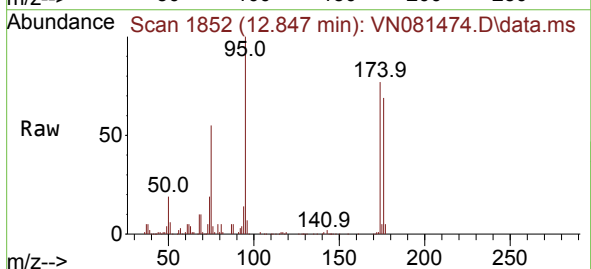
Acq: 19 Mar 2024 16:33

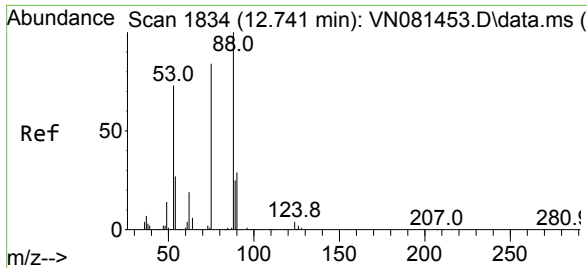
Tgt Ion: 75 Resp: 148572

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.560 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081474.D
 Acq: 19 Mar 2024 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11977

Tgt Ion: 75 Resp: 148572
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.4 107.2#
 89 0.0 33.4 50.0#

