

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082223\
 Data File : VN078987.D
 Acq On : 22 Aug 2023 12:22
 Operator : JC\MD
 Sample : PB154968ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 23 03:00:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

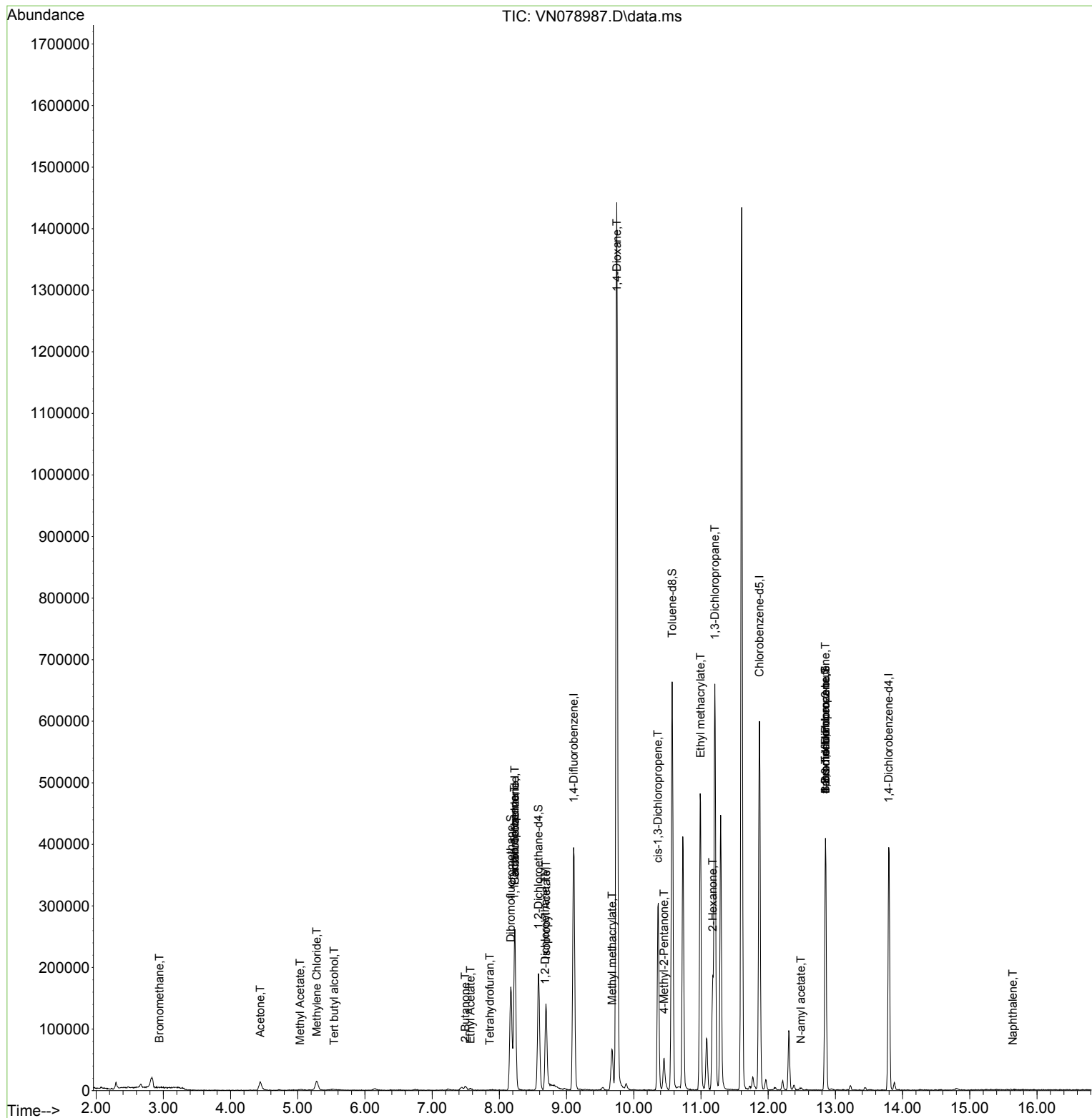
Internal Standards						
1) Pentafluorobenzene	8.230	168	180658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	334895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	336388	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	99419	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	143256	50.959	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.920%		
35) Dibromofluoromethane	8.171	113	117738	52.227	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.460%		
50) Toluene-d8	10.571	98	432921	51.720	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 103.440%		
62) 4-Bromofluorobenzene	12.853	95	133520	48.801	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 97.600%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.942	94	524	0.297	ug/l #	4
11) Tert butyl alcohol	5.542	59	419	0.888	ug/l #	72
16) Acetone	4.442	43	25684	22.143	ug/l	88
18) Methyl Acetate	5.036	43	2814	0.574	ug/l #	76
20) Methylene Chloride	5.283	84	11304	4.573	ug/l #	82
25) 2-Butanone	7.494	43	10704	5.756	ug/l #	52
29) Tetrahydrofuran	7.859	42	415	0.337	ug/l #	55
31) Cyclohexane	8.224	56	4931	Below Cal	#	48
36) 1,1-Dichloropropene	8.224	75	15080	4.447	ug/l #	50
37) Ethyl Acetate	7.571	43	5544	1.461	ug/l #	79
38) Carbon Tetrachloride	8.230	117	19243	5.663	ug/l #	14
42) 1,2-Dichloroethane	8.683	62	961	0.257	ug/l #	73
43) Isopropyl Acetate	8.694	43	159301	23.754	ug/l #	77
48) Methyl methacrylate	9.677	41	5474	1.801	ug/l #	25
49) 1,4-Dioxane	9.747	88	139	2.685	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	39350	9.893	ug/l #	83
54) cis-1,3-Dichloropropene	10.359	75	50689	12.007	ug/l #	74
56) Ethyl methacrylate	10.994	69	1873	0.490	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6834	1.548	ug/l #	42
59) 2-Hexanone	11.177	43	150699	52.311	ug/l #	19
71) Bromoform	12.853	173	1627	0.827	ug/l #	1
74) N-amyl acetate	12.488	43	1217	0.291	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	74895	31.265	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	74895	79.868	ug/l #	15
95) Naphthalene	15.641	128	154	2.606	ug/l #	70

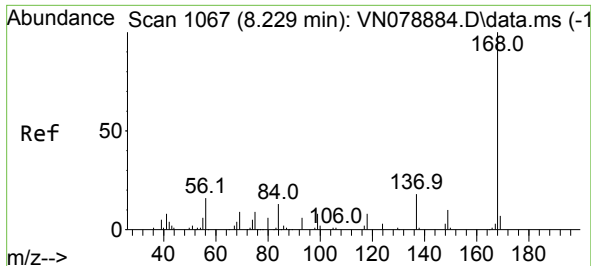
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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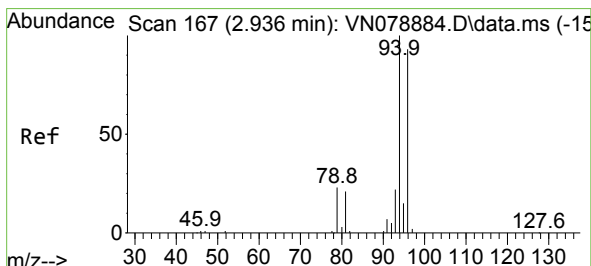
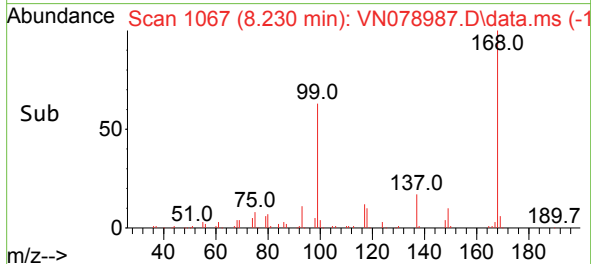
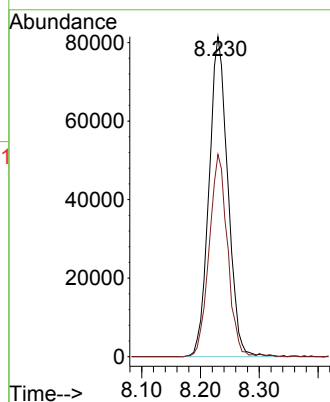
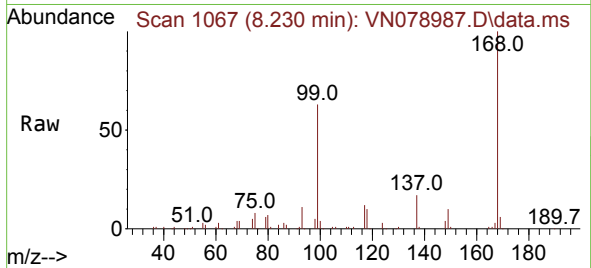




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

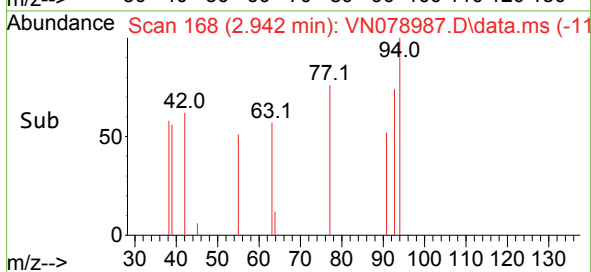
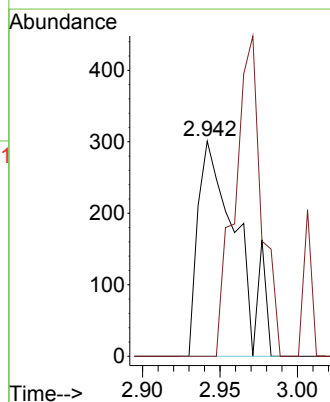
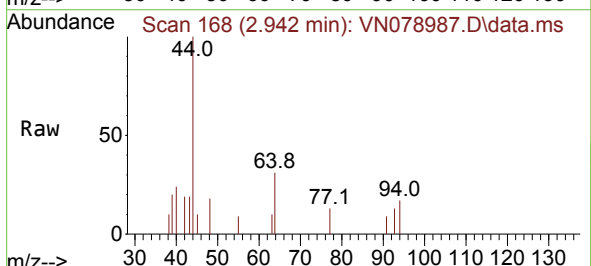
Instrument :
MSVOA_N
ClientSampleId :

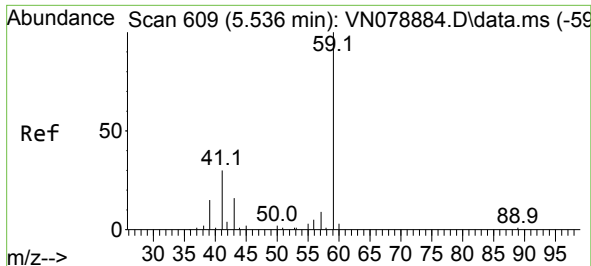
Tgt Ion:168 Resp: 180658
Ion Ratio Lower Upper
168 100
99 63.2 53.0 79.6



#5
Bromomethane
Concen: 0.297 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

Tgt Ion: 94 Resp: 524
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#





#11

Tert butyl alcohol

Concen: 0.888 ug/l

RT: 5.542 min Scan# 610

Delta R.T. -0.000 min

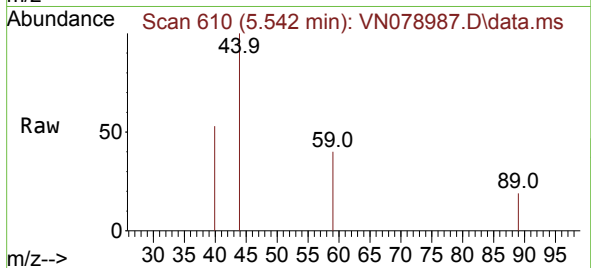
Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

ClientSampleId :

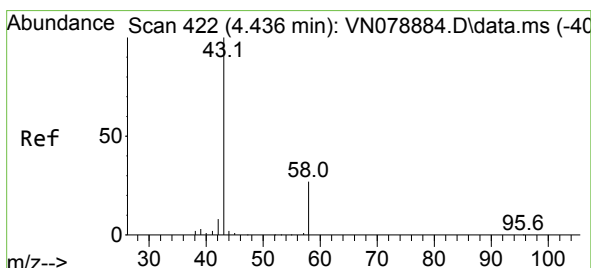
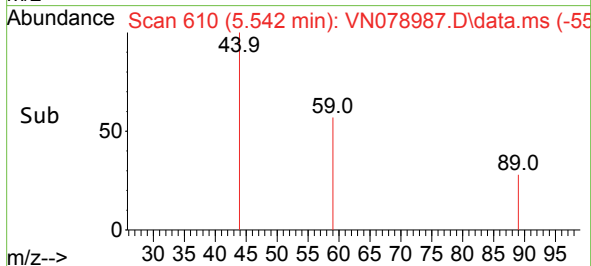
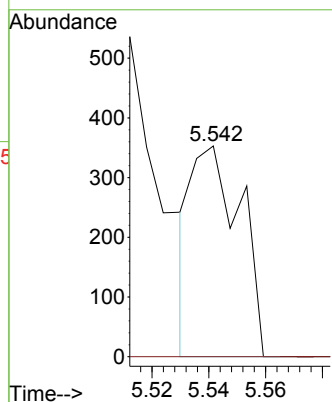


Tgt Ion: 59 Resp: 419

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 22.143 ug/l

RT: 4.442 min Scan# 423

Delta R.T. -0.000 min

Lab File: VN078987.D

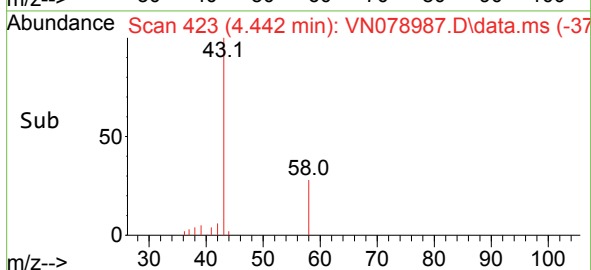
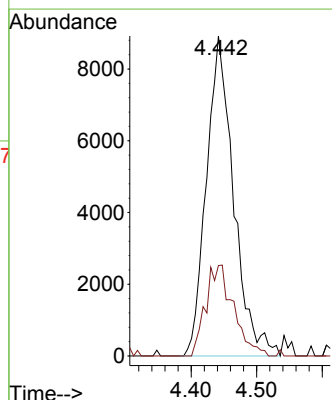
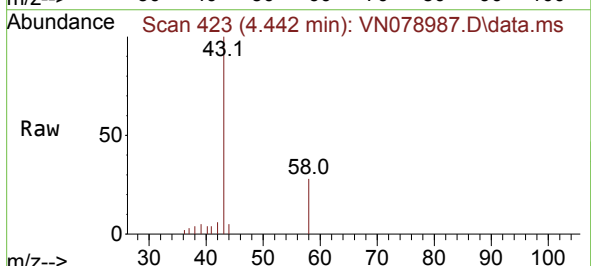
Acq: 22 Aug 2023 12:22

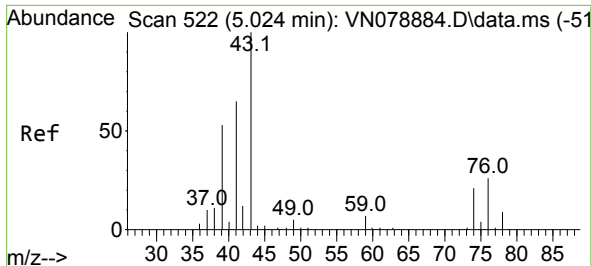
Tgt Ion: 43 Resp: 25684

Ion Ratio Lower Upper

43 100

58 28.3 28.0 42.0

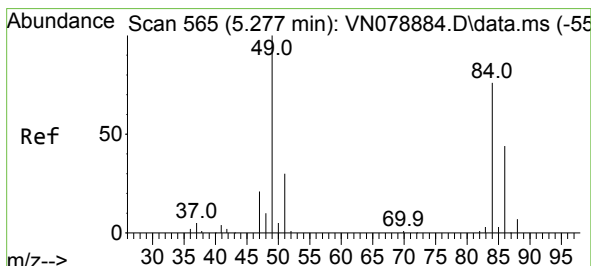
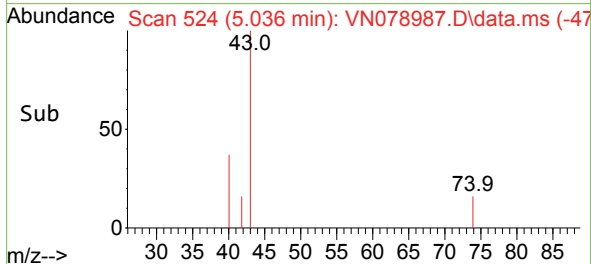
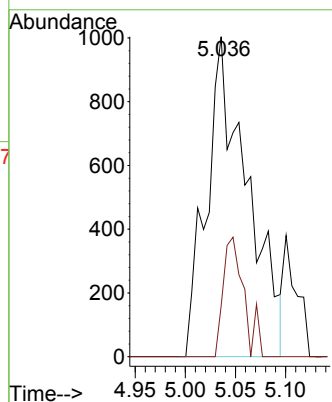
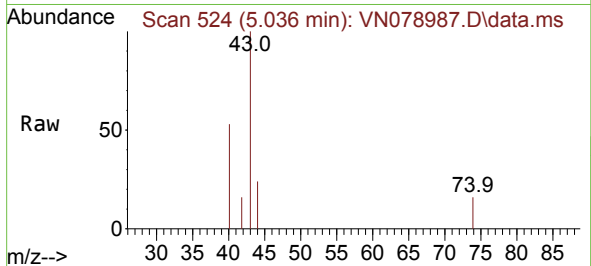




#18
Methyl Acetate
Concen: 0.574 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

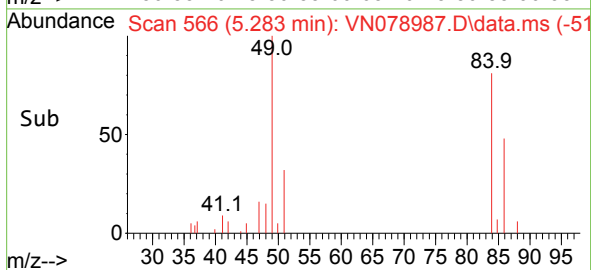
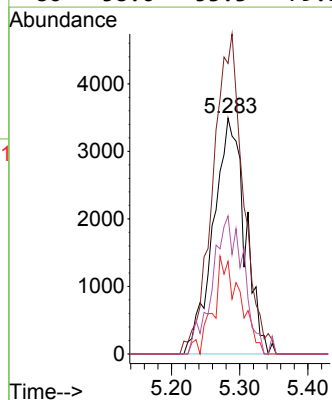
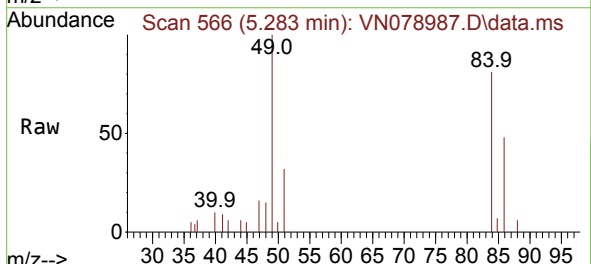
Instrument :
MSVOA_N
ClientSampleId :

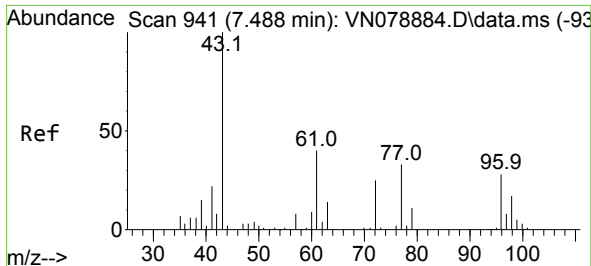
Tgt Ion: 43 Resp: 2814
Ion Ratio Lower Upper
43 100
74 19.0 26.2 39.4#



#20
Methylene Chloride
Concen: 4.573 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

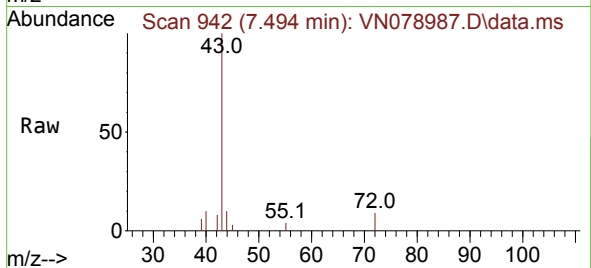
Tgt Ion: 84 Resp: 11304
Ion Ratio Lower Upper
84 100
49 123.2 79.7 119.5#
51 39.3 25.2 37.8#
86 58.6 53.3 79.9



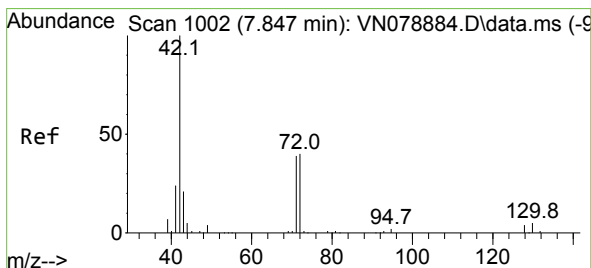
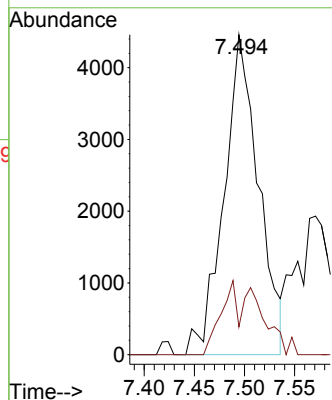
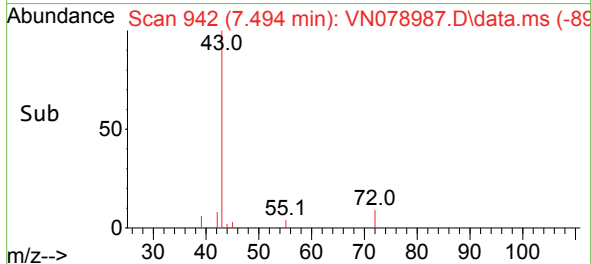


#25
2-Butanone
Concen: 5.756 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

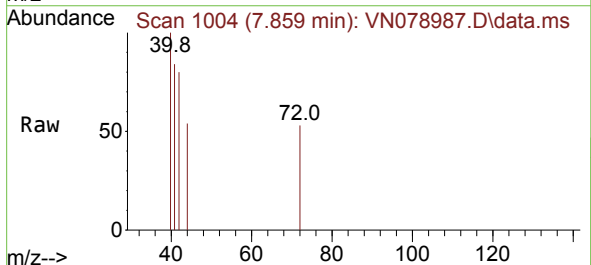
Instrument :
MSVOA_N
ClientSampleId :



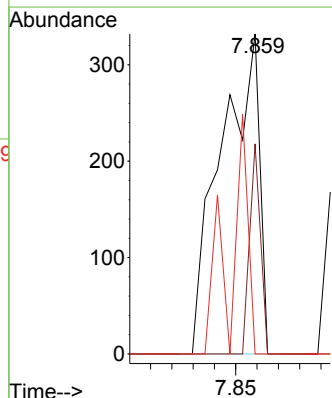
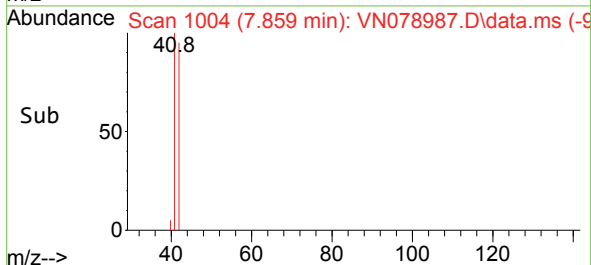
Tgt Ion: 43 Resp: 10704
Ion Ratio Lower Upper
43 100
72 8.7 30.2 45.2#

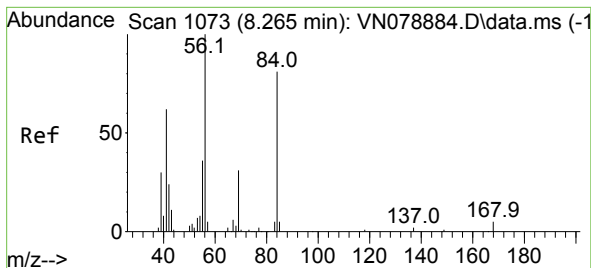


#29
Tetrahydrofuran
Concen: 0.337 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22



Tgt Ion: 42 Resp: 415
Ion Ratio Lower Upper
42 100
72 18.6 49.8 74.6#
71 35.2 47.4 71.2#





#31

Cyclohexane

Concen: Below Cal

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

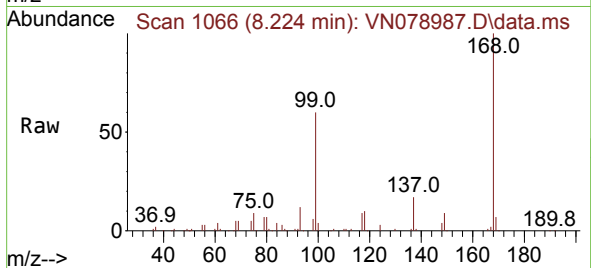
Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

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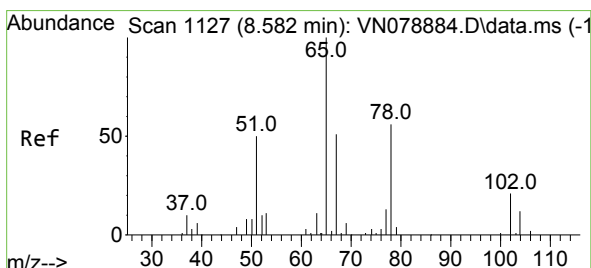
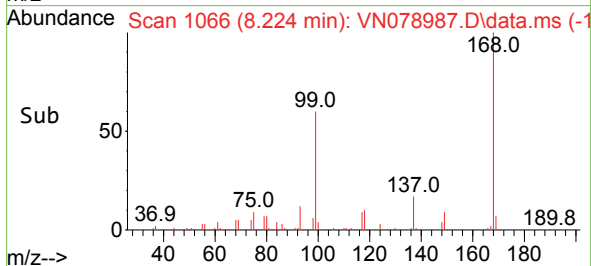
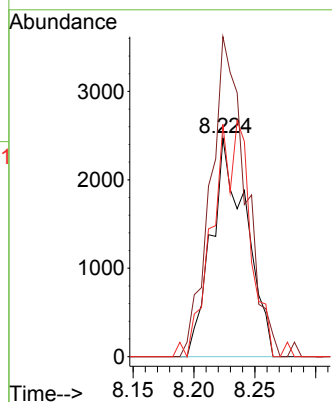
Tgt Ion: 56 Resp: 4931

Ion Ratio Lower Upper

56 100

69 146.3 26.8 40.2#

84 106.3 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 50.959 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078987.D

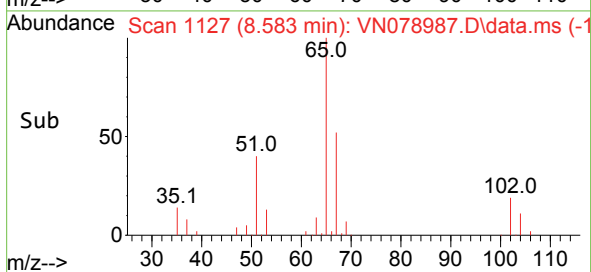
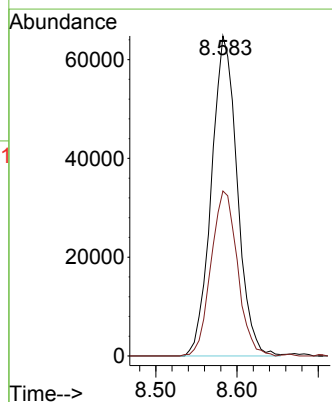
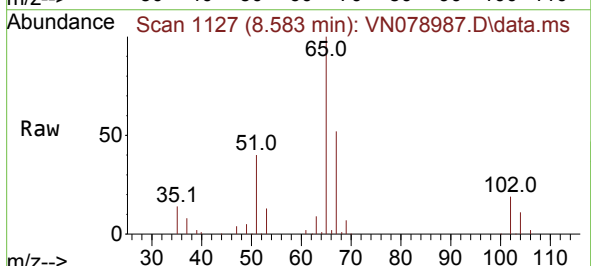
Acq: 22 Aug 2023 12:22

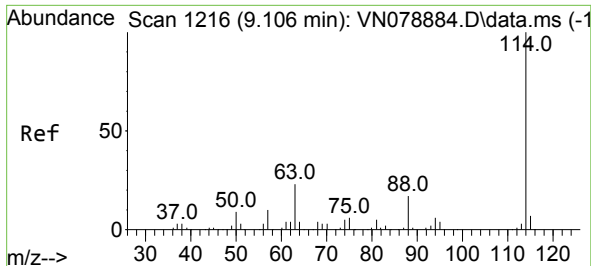
Tgt Ion: 65 Resp: 143256

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

ClientSampleId :

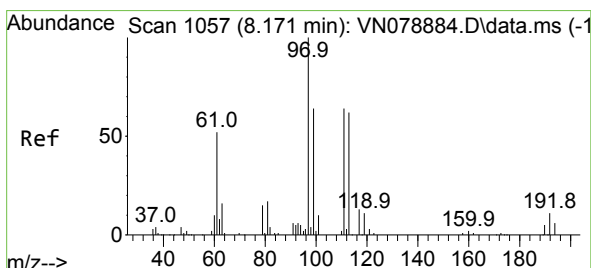
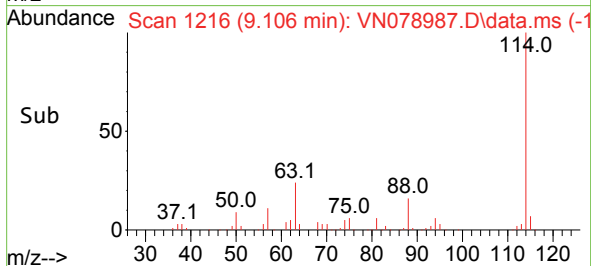
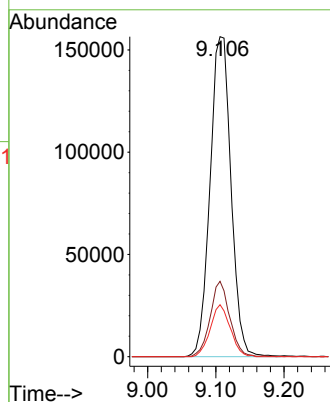
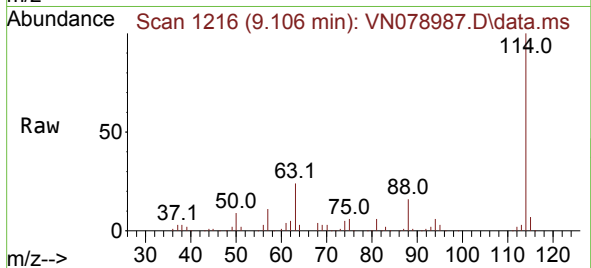
Tgt Ion:114 Resp: 334895

Ion Ratio Lower Upper

114 100

63 23.6 0.0 36.4

88 16.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.227 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

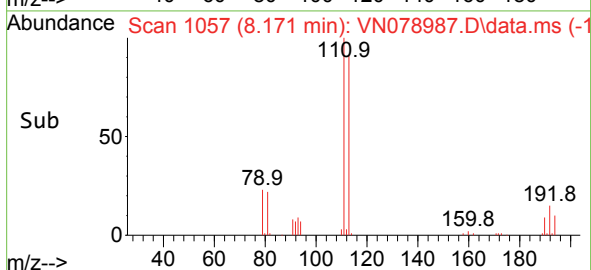
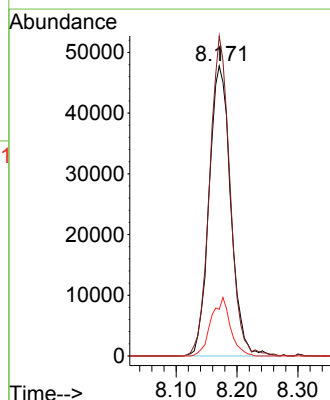
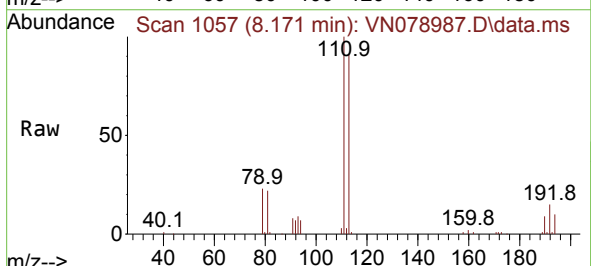
Tgt Ion:113 Resp: 117738

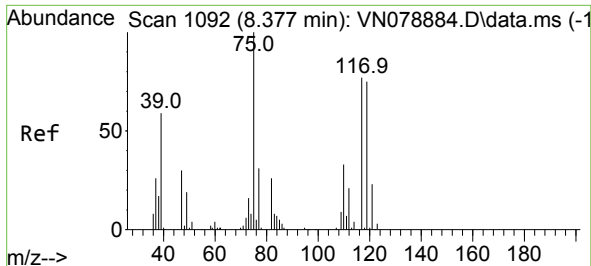
Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

192 18.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.447 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

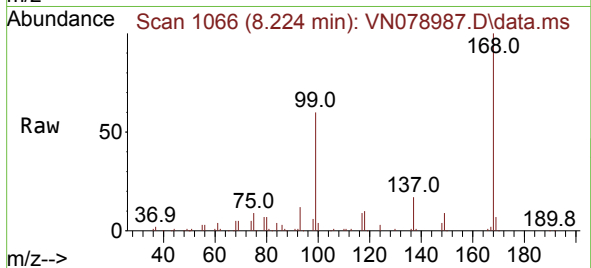
Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

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ClientSampleId :



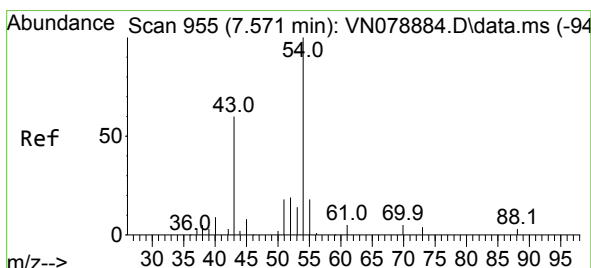
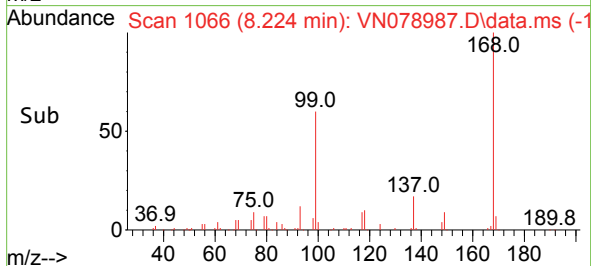
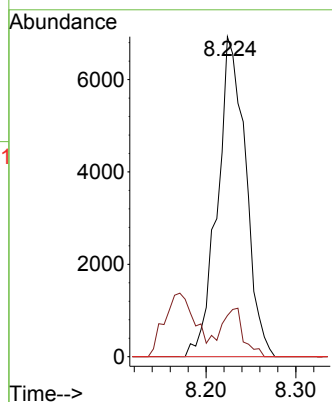
Tgt Ion: 75 Resp: 15080

Ion Ratio Lower Upper

75 100

110 10.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.461 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

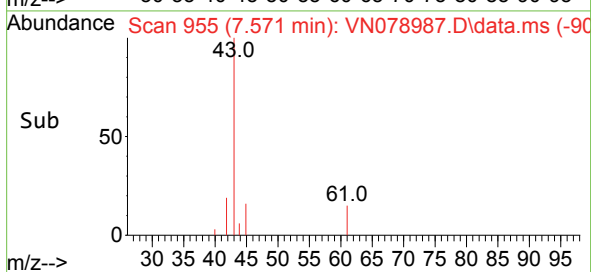
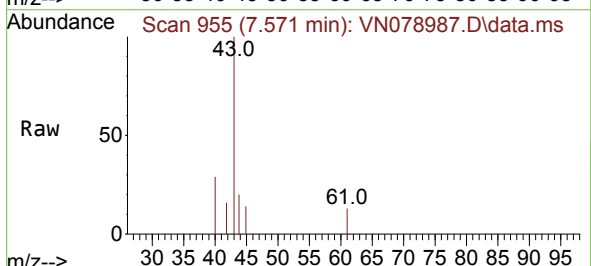
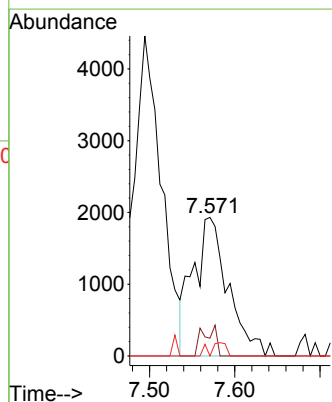
Tgt Ion: 43 Resp: 5544

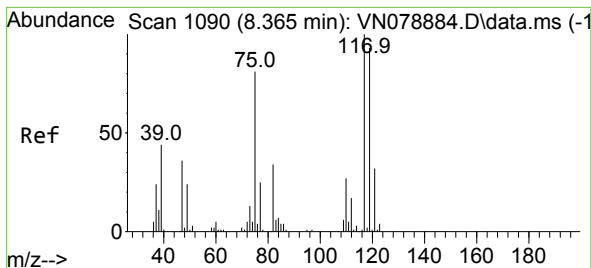
Ion Ratio Lower Upper

43 100

61 8.4 13.2 19.8#

70 4.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.663 ug/l

RT: 8.230 min Scan# 1106

Delta R.T. -0.141 min

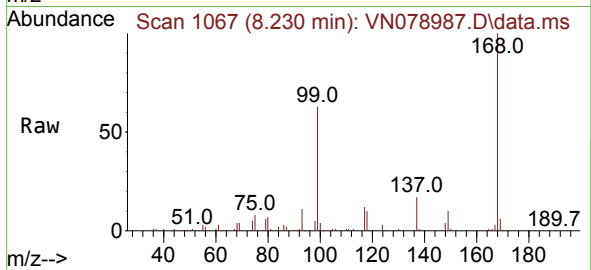
Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

ClientSampleId :



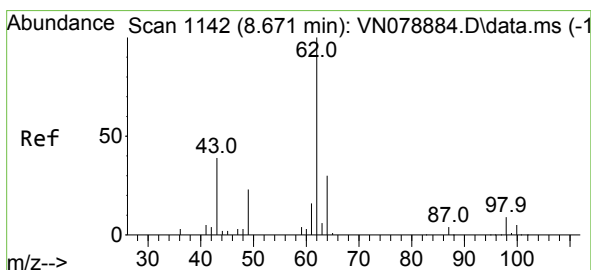
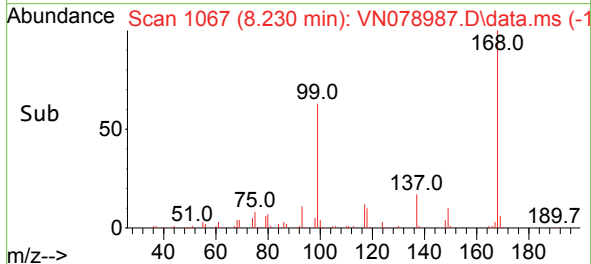
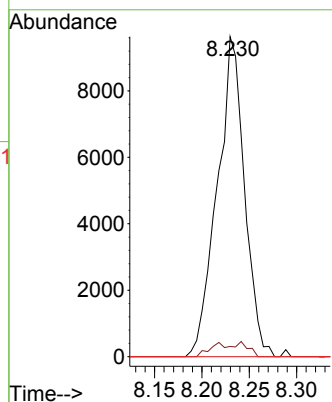
Tgt Ion:117 Resp: 19243

Ion Ratio Lower Upper

117 100

119 3.2 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.257 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078987.D

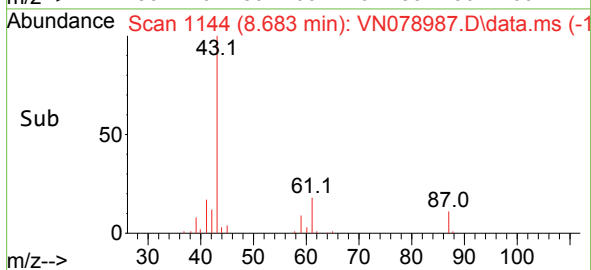
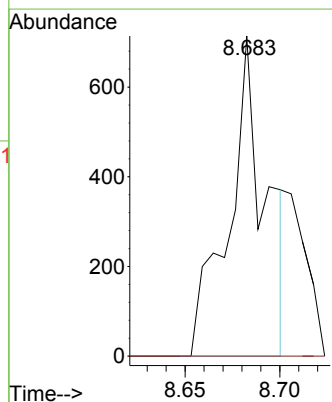
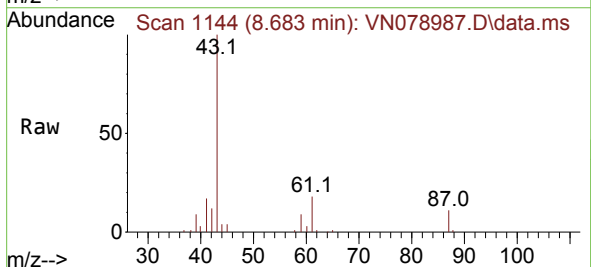
Acq: 22 Aug 2023 12:22

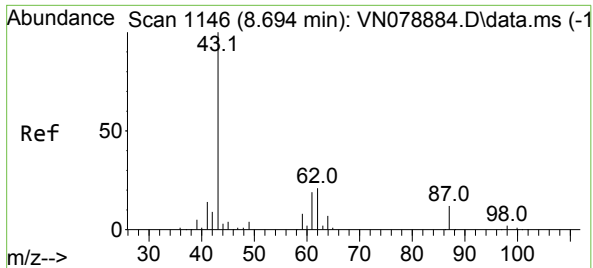
Tgt Ion: 62 Resp: 961

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

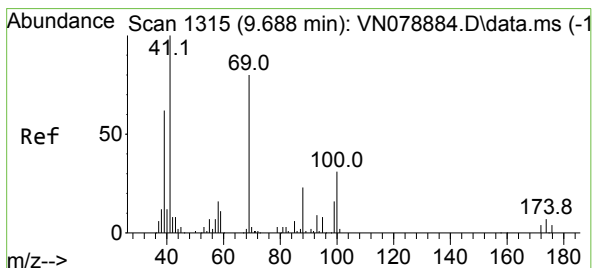
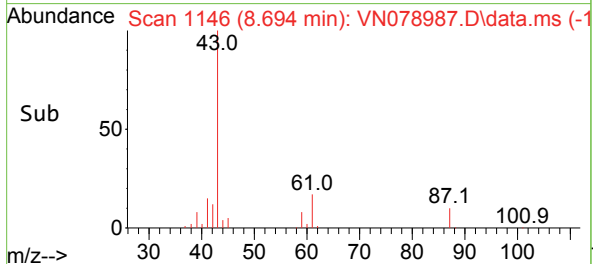
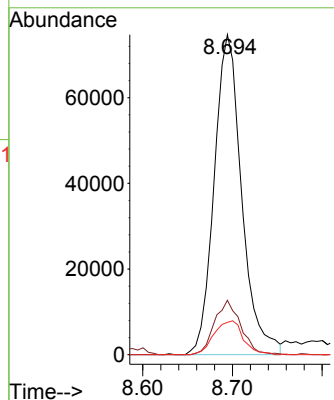
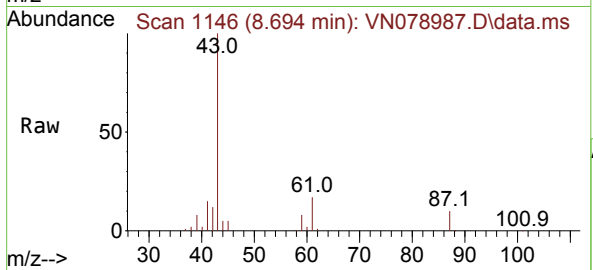




#43
Isopropyl Acetate
Concen: 23.754 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

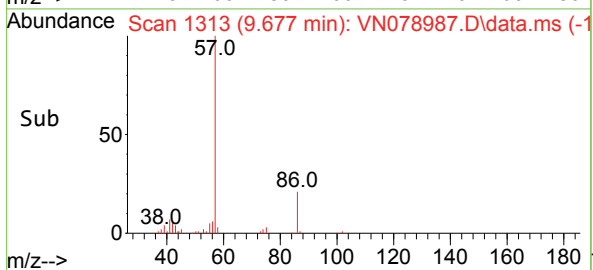
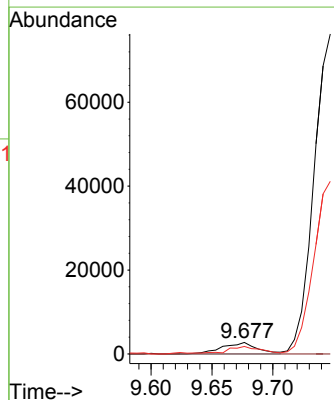
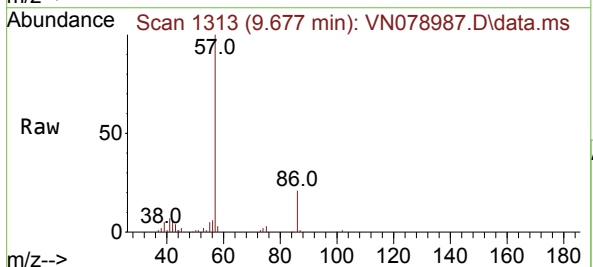
Instrument :
MSVOA_N
ClientSampleId :

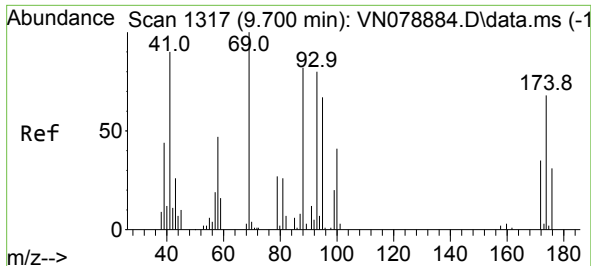
Tgt Ion: 43 Resp: 159301
Ion Ratio Lower Upper
43 100
61 16.2 24.7 37.1#
87 11.2 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.801 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.011 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

Tgt Ion: 41 Resp: 5474
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 47.9 54.6 81.8#





#49

1,4-Dioxane

Concen: 2.685 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.047 min

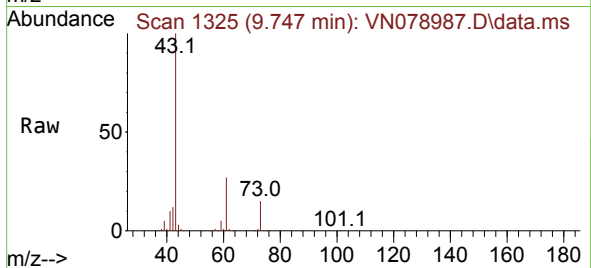
Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

ClientSampleId :



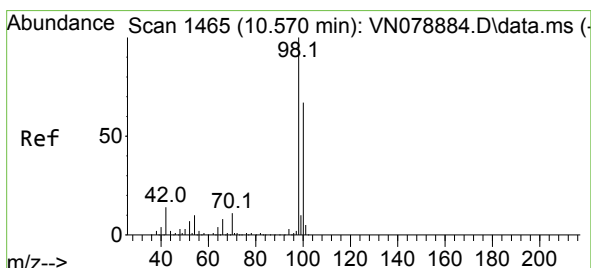
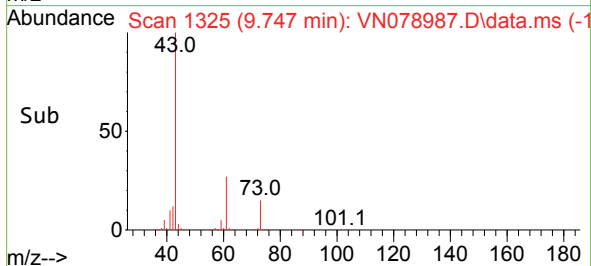
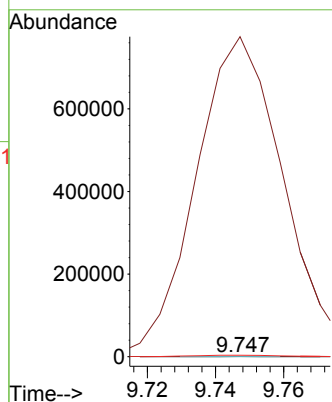
Tgt Ion: 88 Resp: 139

Ion Ratio Lower Upper

88 100

43 1010509.4 17.0 25.6#

58 5146.8 47.0 70.4#



#50

Toluene-d8

Concen: 51.720 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078987.D

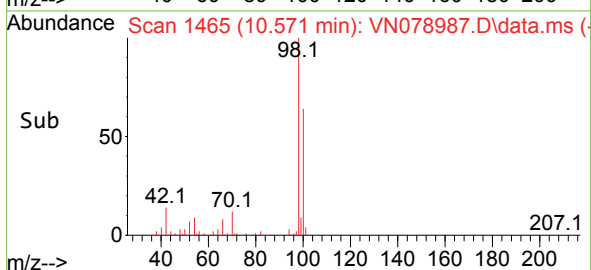
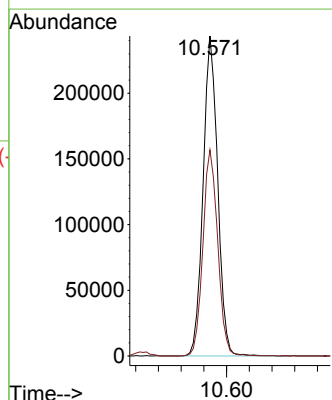
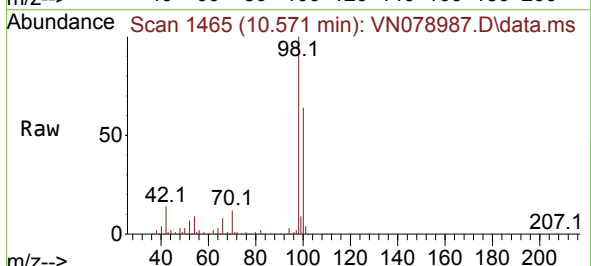
Acq: 22 Aug 2023 12:22

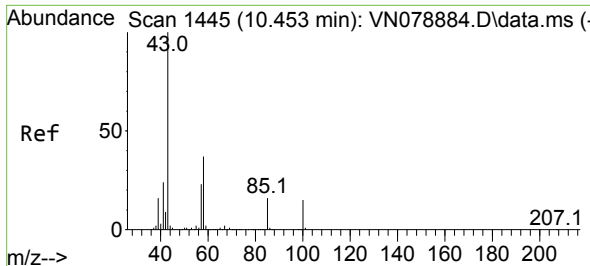
Tgt Ion: 98 Resp: 432921

Ion Ratio Lower Upper

98 100

100 65.5 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 9.893 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

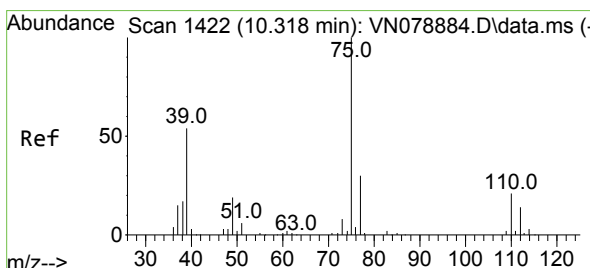
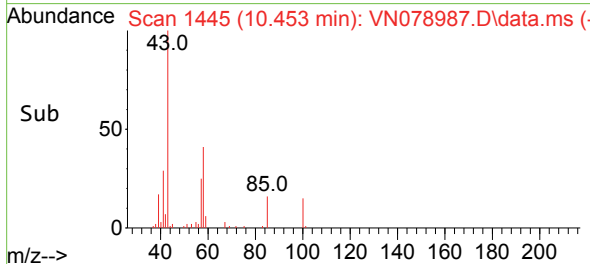
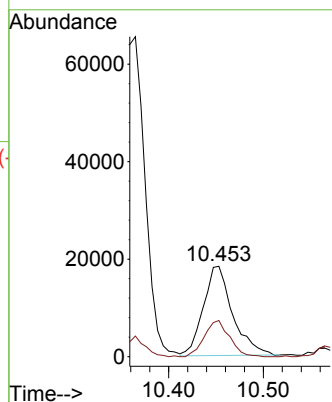
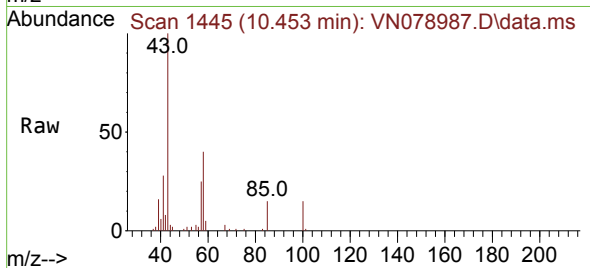
ClientSampleId :

Tgt Ion: 43 Resp: 39350

Ion Ratio Lower Upper

43 100

58 34.8 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 12.007 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.041 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

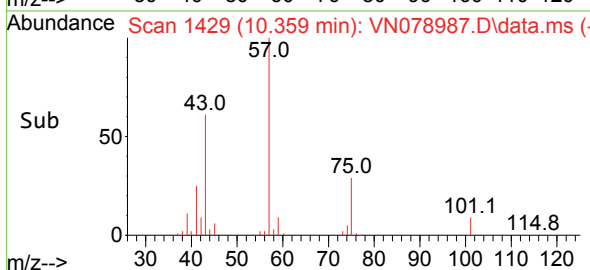
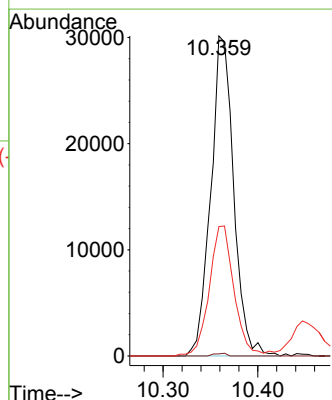
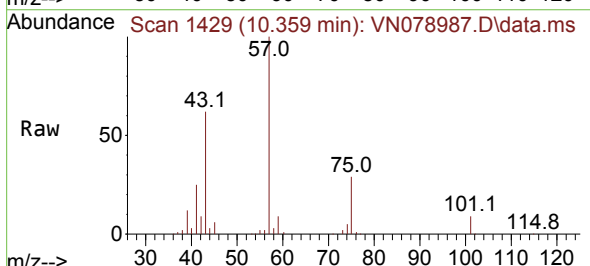
Tgt Ion: 75 Resp: 50689

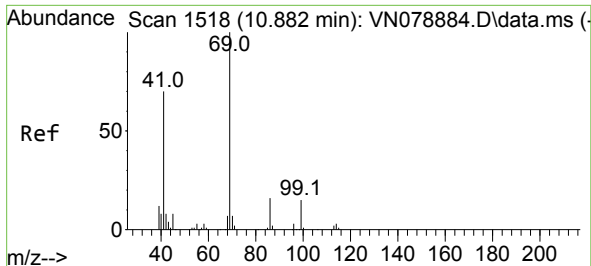
Ion Ratio Lower Upper

75 100

77 0.6 26.1 39.1#

39 38.7 31.6 47.4

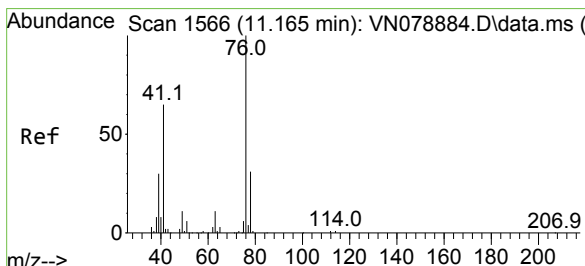
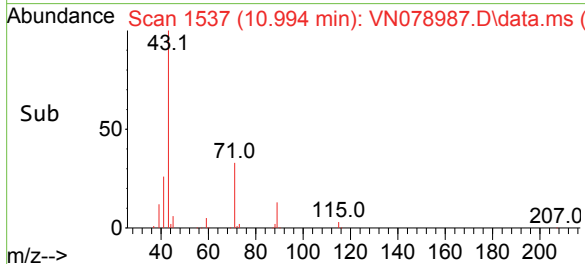
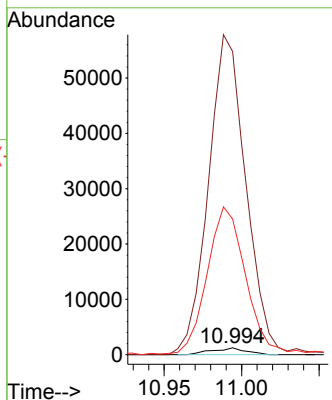
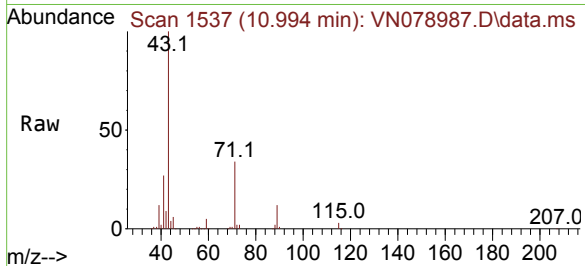




#56
Ethyl methacrylate
Concen: 0.490 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

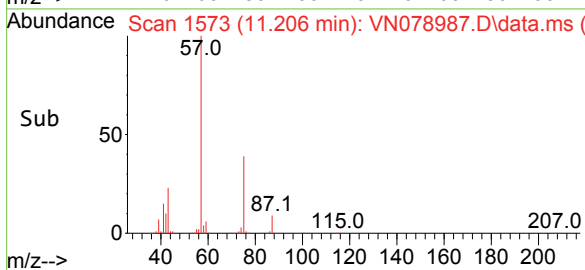
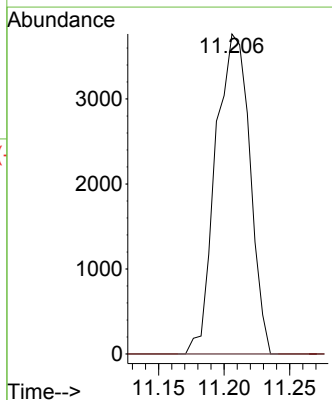
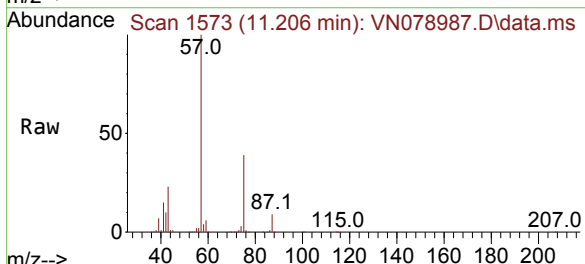
Instrument :
MSVOA_N
ClientSampleId :

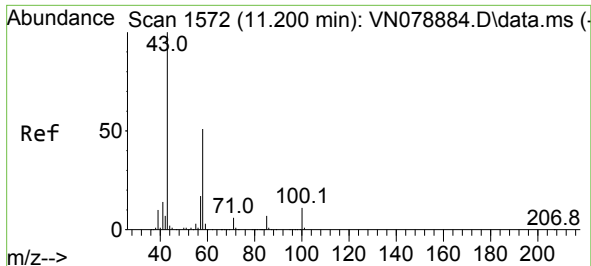
Tgt Ion: 69 Resp: 1873
Ion Ratio Lower Upper
69 100
41 5219.8 39.6 59.4#
39 2497.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.548 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

Tgt Ion: 76 Resp: 6834
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

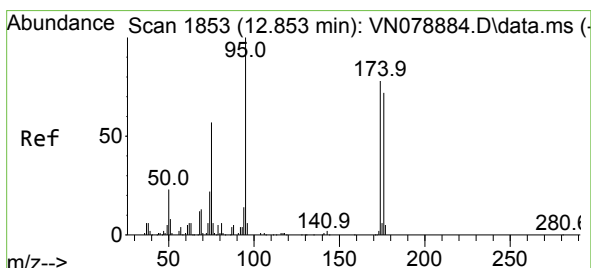
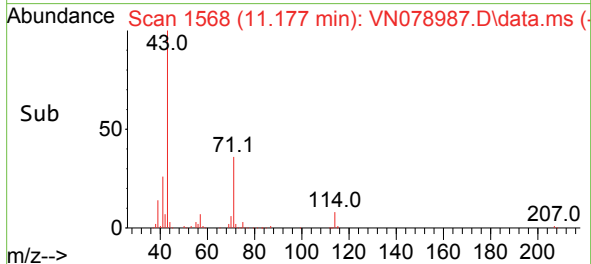
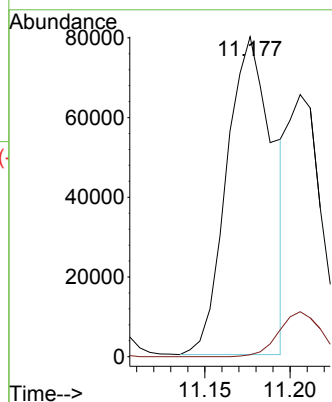
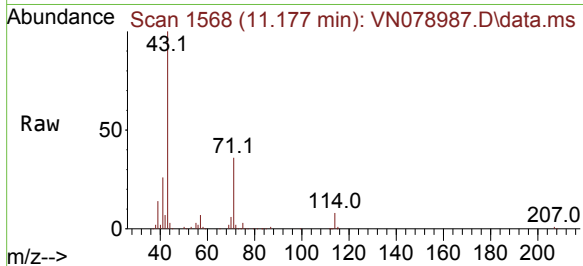




#59
2-Hexanone
Concen: 52.311 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

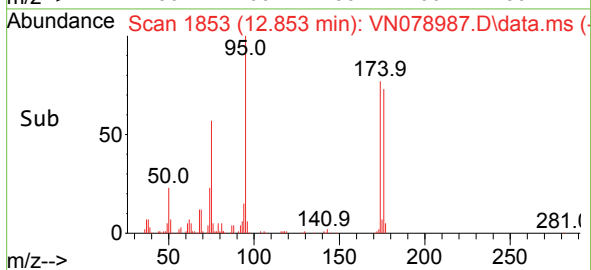
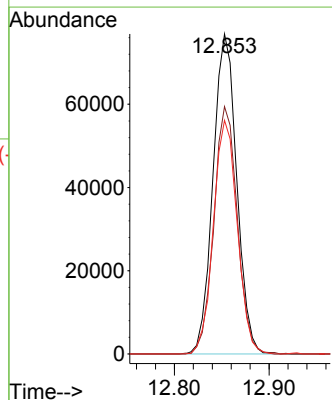
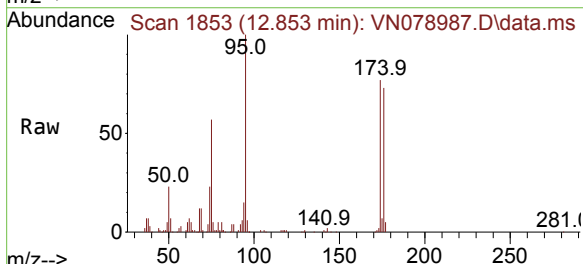
Instrument :
MSVOA_N
ClientSampleId :

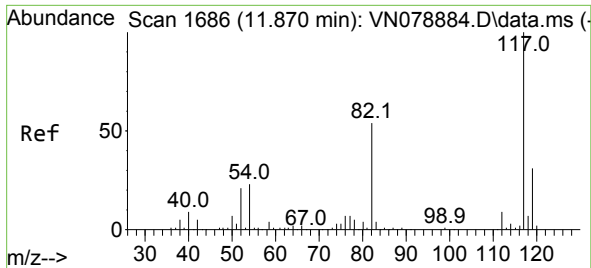
Tgt Ion: 43 Resp: 150699
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.801 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

Tgt Ion: 95 Resp: 133520
Ion Ratio Lower Upper
95 100
174 76.7 0.0 143.8
176 73.5 0.0 135.8

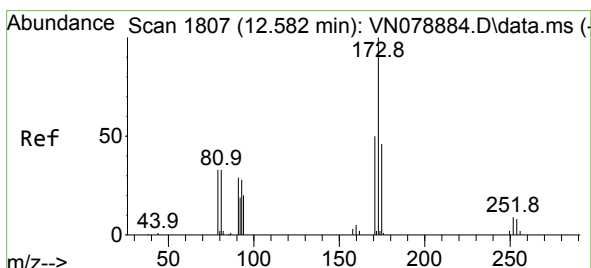
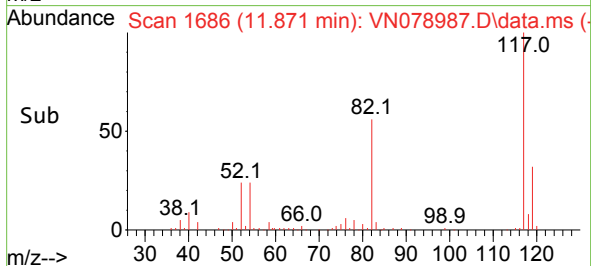
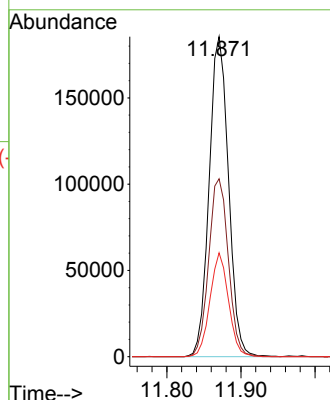
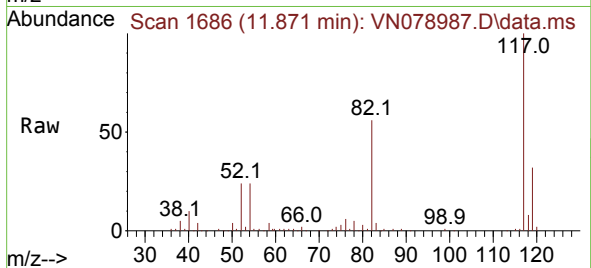




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

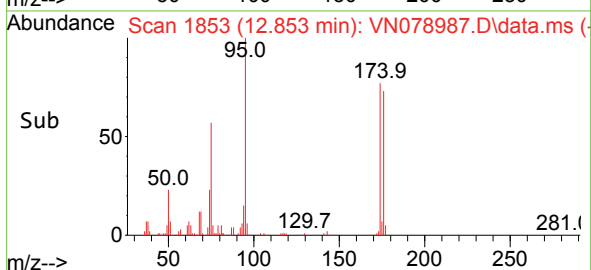
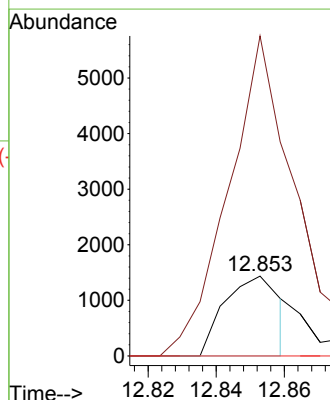
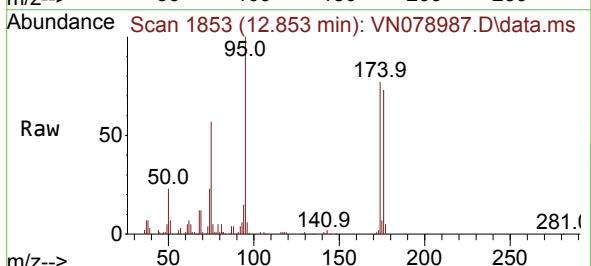
Instrument :
MSVOA_N
ClientSampleId :

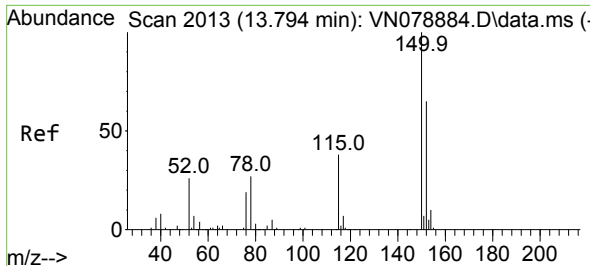
Tgt Ion:117 Resp: 336388
Ion Ratio Lower Upper
117 100
82 55.6 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.827 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

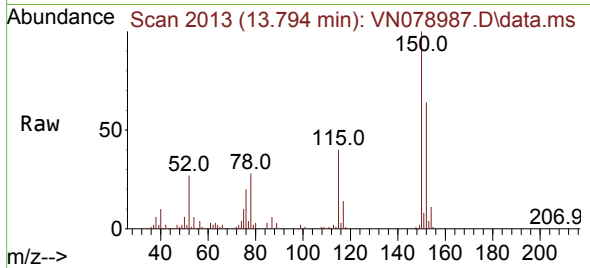
Tgt Ion:173 Resp: 1627
Ion Ratio Lower Upper
173 100
175 372.0 24.3 73.0#
254 0.0 0.0 0.0



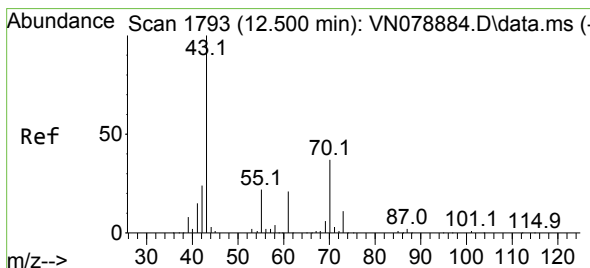
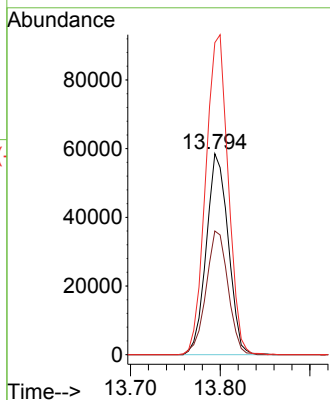
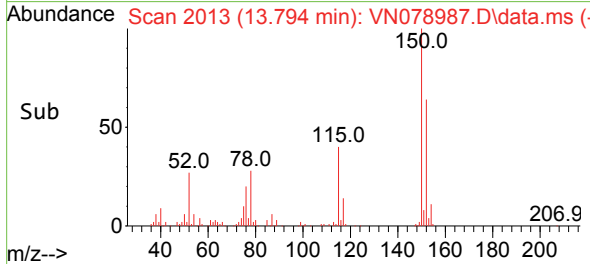


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

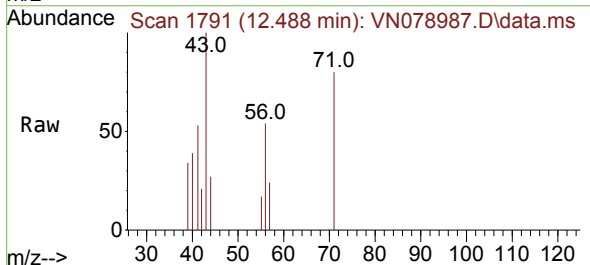
Instrument :
MSVOA_N
ClientSampleId :



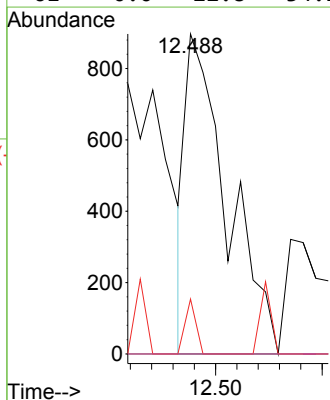
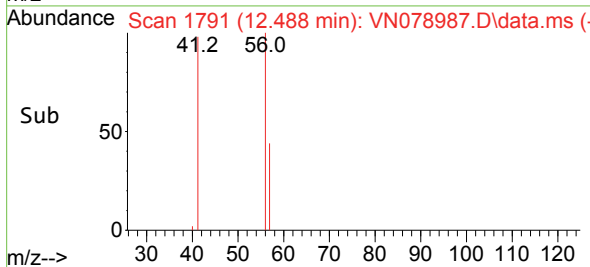
Tgt Ion:152 Resp: 99419
Ion Ratio Lower Upper
152 100
115 61.7 32.3 96.8
150 162.9 0.0 355.8

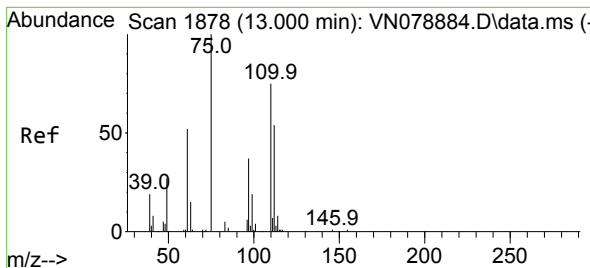


#74
N-ethyl acetate
Concen: 0.291 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22



Tgt Ion: 43 Resp: 1217
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 4.4 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 31.265 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

Instrument :

MSVOA_N

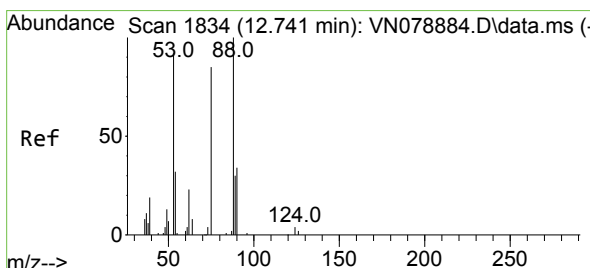
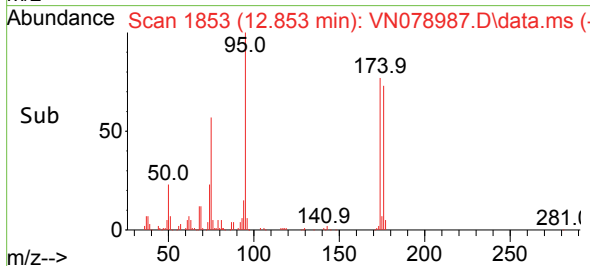
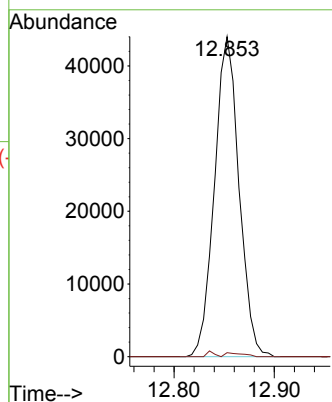
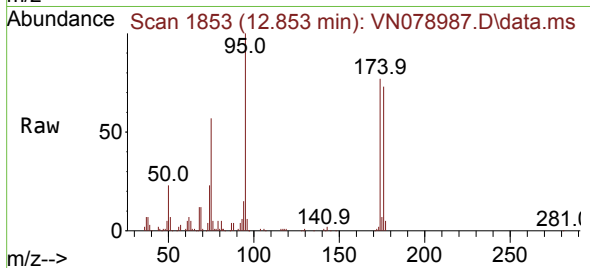
ClientSampleId :

Tgt Ion: 75 Resp: 74895

Ion Ratio Lower Upper

75 100

77 0.9 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.868 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078987.D

Acq: 22 Aug 2023 12:22

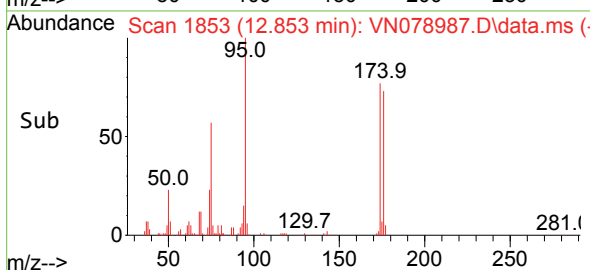
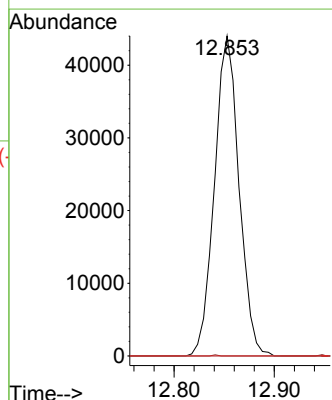
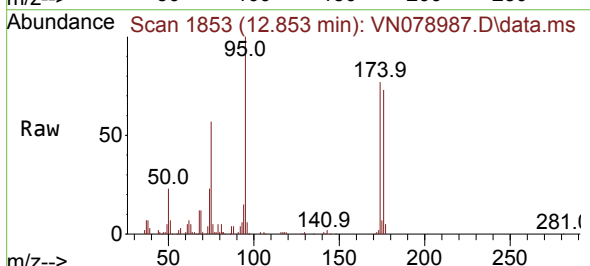
Tgt Ion: 75 Resp: 74895

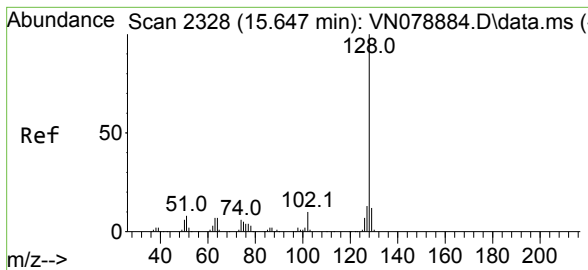
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

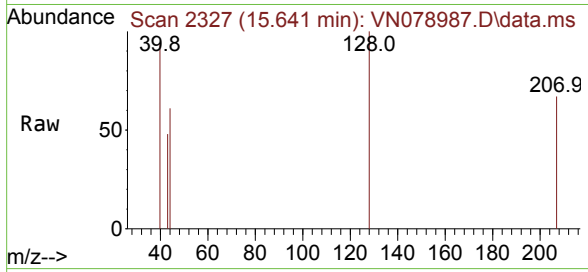
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 2.606 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078987.D
Acq: 22 Aug 2023 12:22

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 154
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

