

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079920.D
 Acq On : 06 Nov 2023 14:10
 Operator : JC\MD
 Sample : PB156885ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:47:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

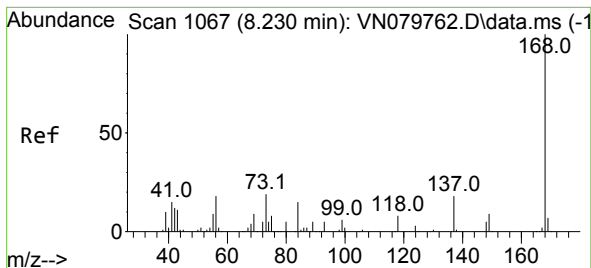
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	244010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	519797	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	556359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	202587	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	226234	60.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.720%			
35) Dibromofluoromethane	8.171	113	187802	51.048	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.100%			
50) Toluene-d8	10.570	98	698683	51.588	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.180%			
62) 4-Bromofluorobenzene	12.853	95	235703	52.476	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.960%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1526	Below Cal		94
5) Bromomethane	2.977	94	794	0.340	ug/l #	51
11) Tert butyl alcohol	5.524	59	3462	7.295	ug/l #	78
13) Acrolein	4.265	56	56	2.704	ug/l #	63
16) Acetone	4.430	43	102133	78.213	ug/l	91
18) Methyl Acetate	5.024	43	7472	1.196	ug/l #	82
20) Methylene Chloride	5.277	84	22161	6.726	ug/l #	80
23) Vinyl Acetate	6.477	43	1374	0.267	ug/l #	62
25) 2-Butanone	7.488	43	10696	5.594	ug/l #	83
29) Tetrahydrofuran	7.865	42	429	0.345	ug/l #	20
31) Cyclohexane	8.235	56	6459	1.315	ug/l #	36
36) 1,1-Dichloropropene	8.229	75	22131	4.213	ug/l #	48
37) Ethyl Acetate	7.571	43	6303	1.308	ug/l #	77
38) Carbon Tetrachloride	8.229	117	27638	5.221	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	1711	0.311	ug/l #	73
43) Isopropyl Acetate	8.694	43	280248	33.172	ug/l #	76
45) 1,2-Dichloropropane	9.741	63	2535	0.630	ug/l #	45
48) Methyl methacrylate	9.747	41	218021	58.916	ug/l #	28
49) 1,4-Dioxane	9.735	88	158	2.416	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	23300	4.899	ug/l #	69
53) t-1,3-Dichloropropene	10.735	75	1669	0.291	ug/l #	48
54) cis-1,3-Dichloropropene	10.359	75	74775	11.952	ug/l #	72
56) Ethyl methacrylate	10.988	69	3324	0.621	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	10739	1.624	ug/l #	42
59) 2-Hexanone	11.206	43	132147	36.318	ug/l #	49
71) Bromoform	12.853	173	1530	0.496	ug/l #	1
74) N-amyl acetate	12.494	43	2722	0.406	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	129631	27.255	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	129631	74.156	ug/l #	15

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

Quant Time: Nov 07 04:47:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 02 05:49:08 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. 0.000 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

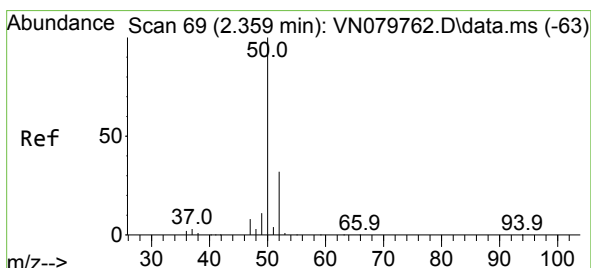
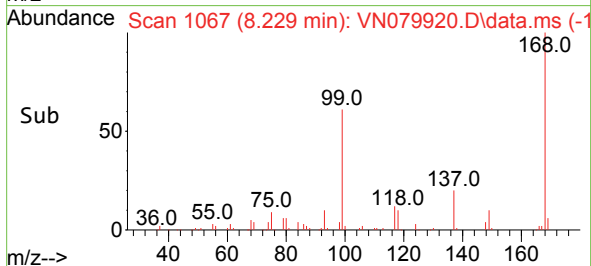
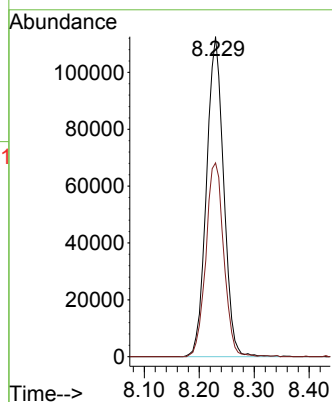
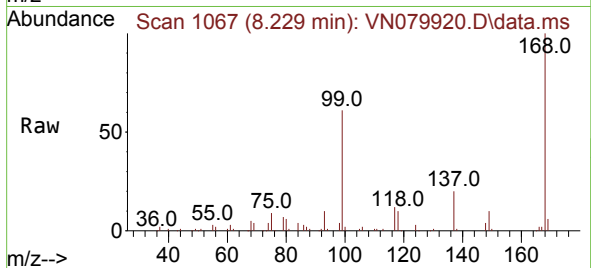
ClientSampleId :

Tgt Ion:168 Resp: 244010

Ion Ratio Lower Upper

168 100

99 60.6 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079920.D

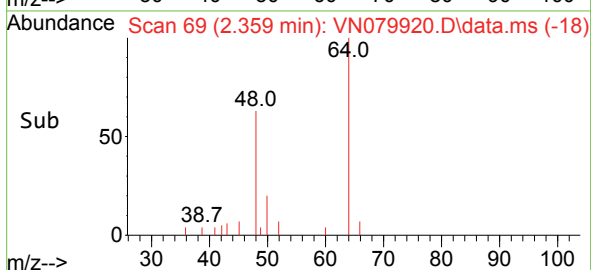
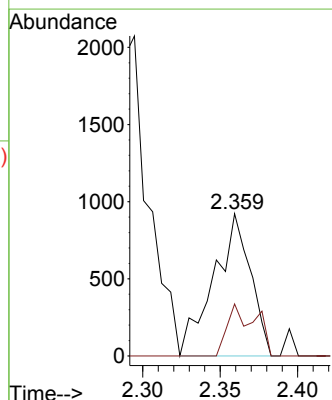
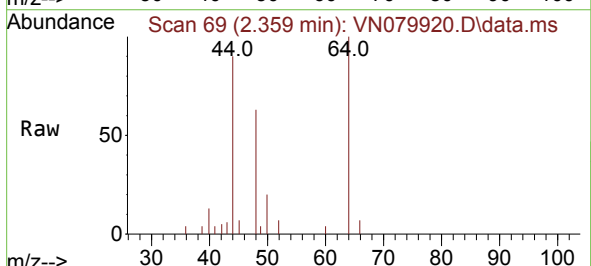
Acq: 06 Nov 2023 14:10

Tgt Ion: 50 Resp: 1526

Ion Ratio Lower Upper

50 100

52 36.6 26.5 39.7

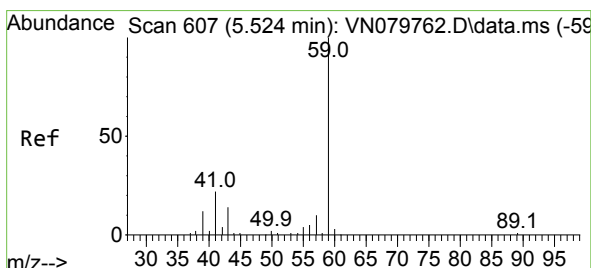
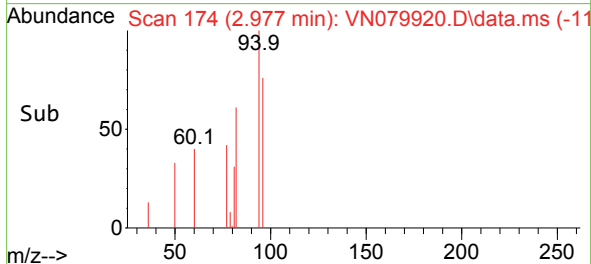
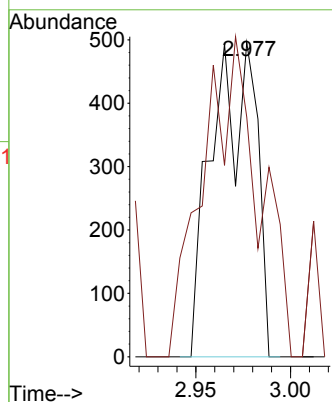
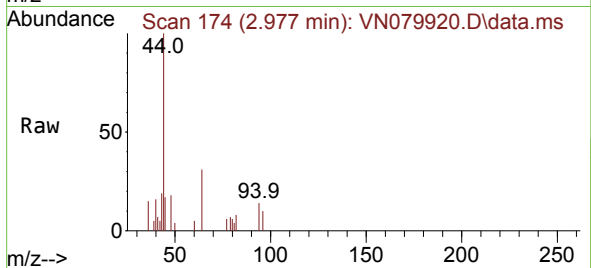




#5
Bromomethane
Concen: 0.340 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

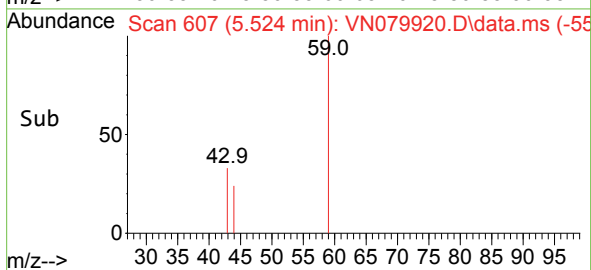
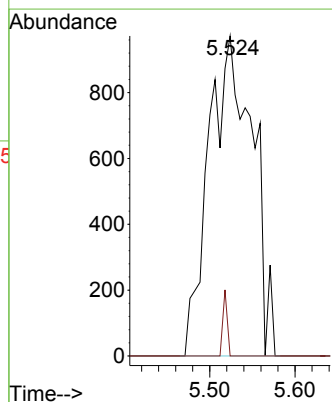
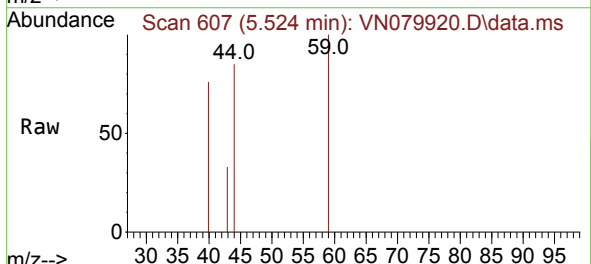
Instrument :
MSVOA_N
ClientSampleId :

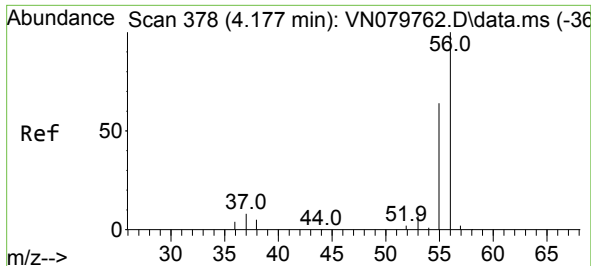
Tgt Ion: 94 Resp: 794
Ion Ratio Lower Upper
94 100
96 44.8 73.1 109.7#



#11
Tert butyl alcohol
Concen: 7.295 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 59 Resp: 3462
Ion Ratio Lower Upper
59 100
57 2.1 8.2 12.4#





#13

Acrolein

Concen: 2.704 ug/l

RT: 4.265 min Scan# 393

Delta R.T. 0.082 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

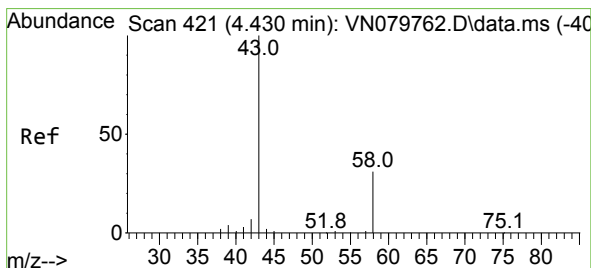
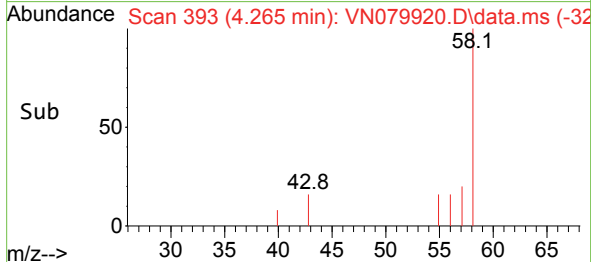
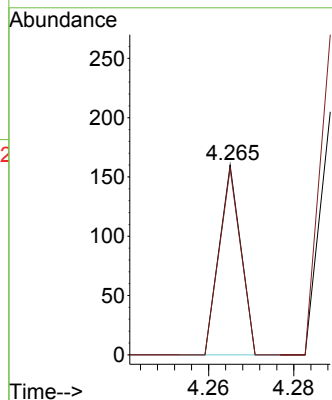
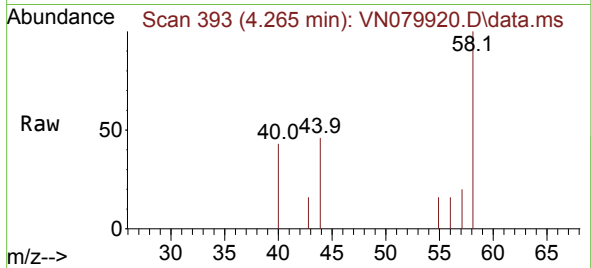
ClientSampleId :

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 98.2 54.5 81.7#



#16

Acetone

Concen: 78.213 ug/l

RT: 4.430 min Scan# 421

Delta R.T. -0.000 min

Lab File: VN079920.D

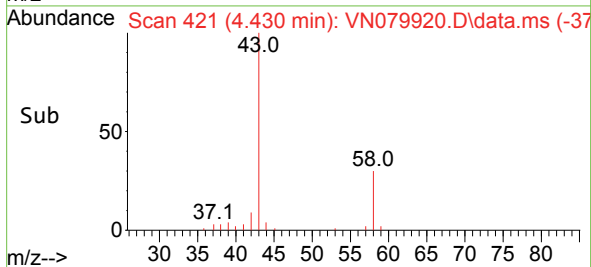
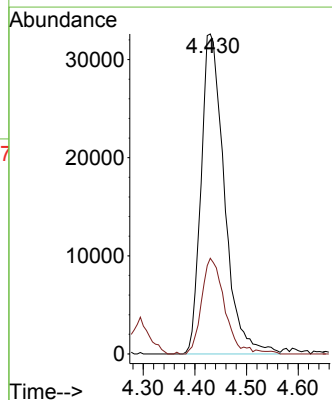
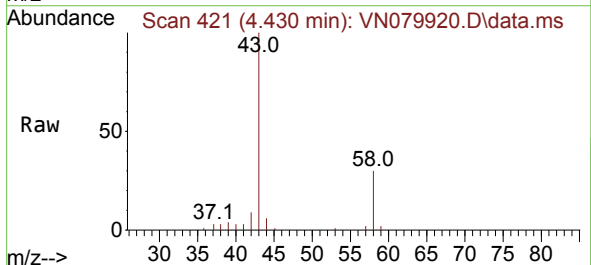
Acq: 06 Nov 2023 14:10

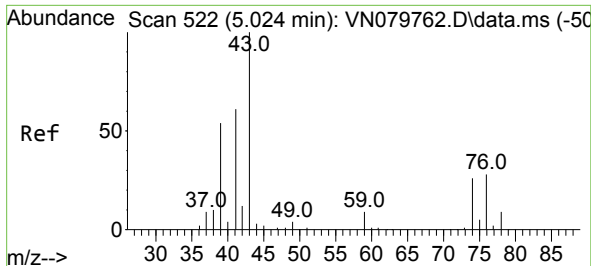
Tgt Ion: 43 Resp: 102133

Ion Ratio Lower Upper

43 100

58 29.9 28.0 42.0

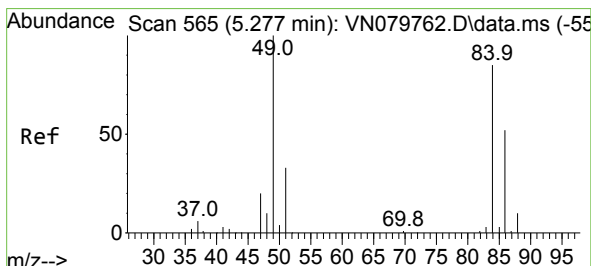
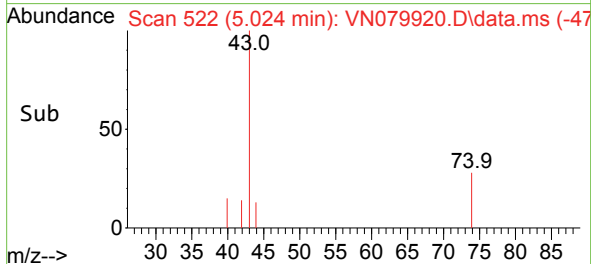
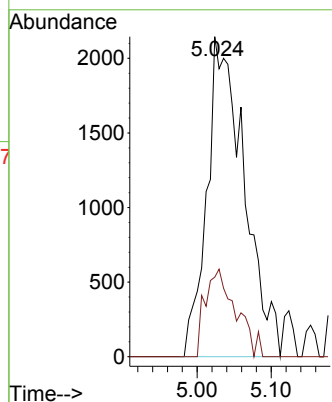
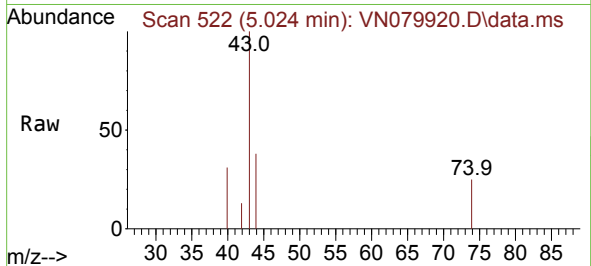




#18
Methyl Acetate
Concen: 1.196 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

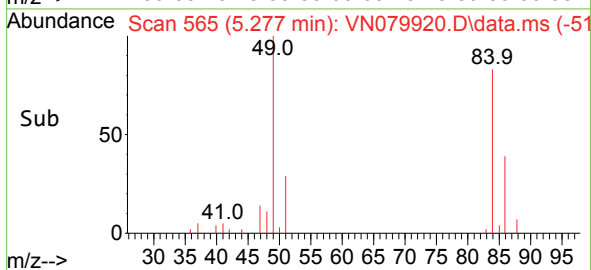
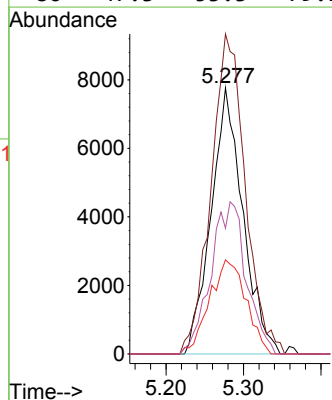
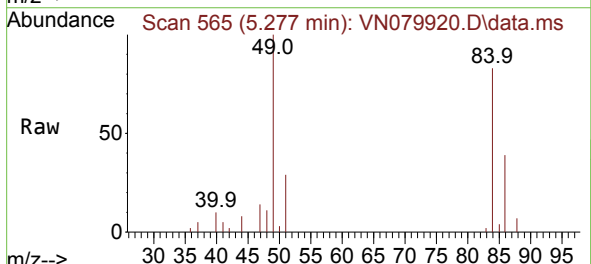
Instrument :
MSVOA_N
ClientSampleId :

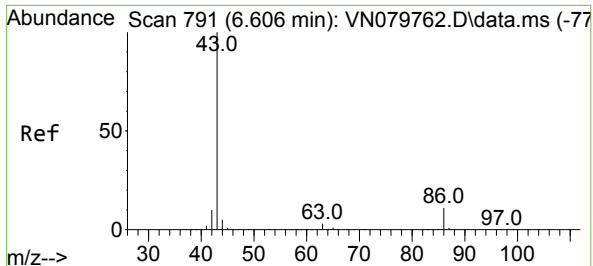
Tgt Ion: 43 Resp: 7472
Ion Ratio Lower Upper
43 100
74 22.5 26.2 39.4#



#20
Methylene Chloride
Concen: 6.726 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 84 Resp: 22161
Ion Ratio Lower Upper
84 100
49 120.3 79.7 119.5#
51 35.4 25.2 37.8
86 47.3 53.3 79.9#

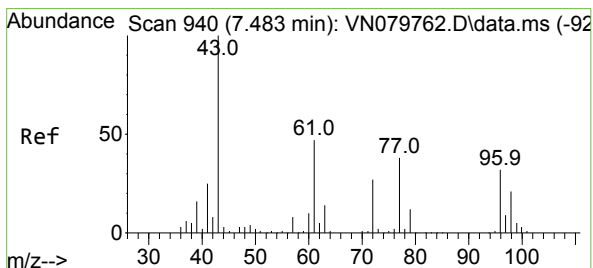
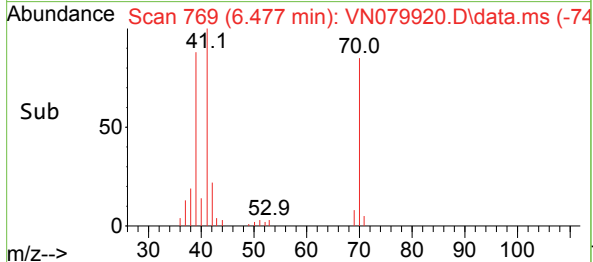
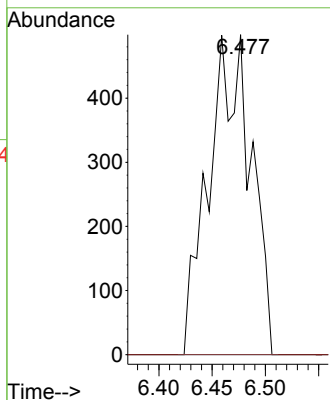
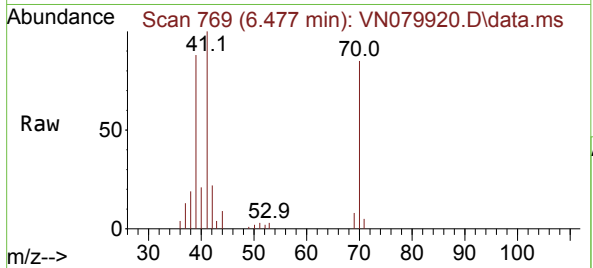




#23
 Vinyl Acetate
 Concen: 0.267 ug/l
 RT: 6.477 min Scan# 70
 Delta R.T. -0.129 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

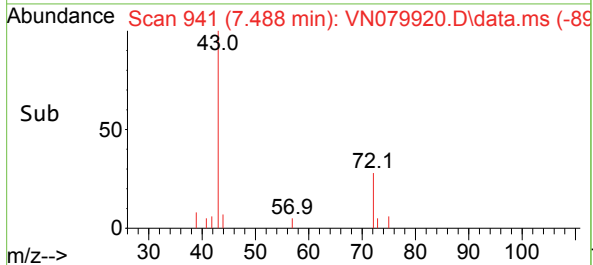
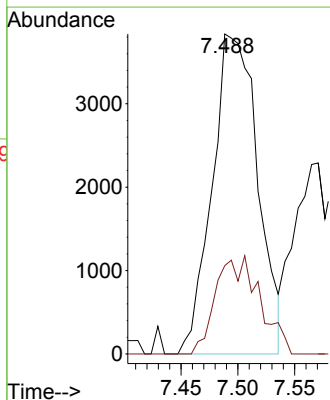
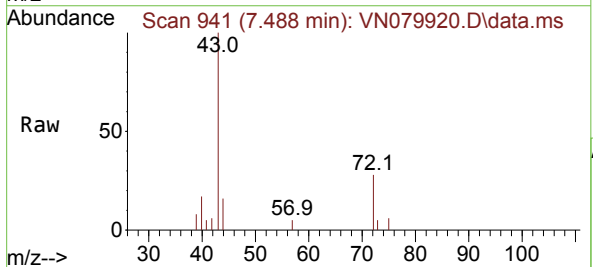
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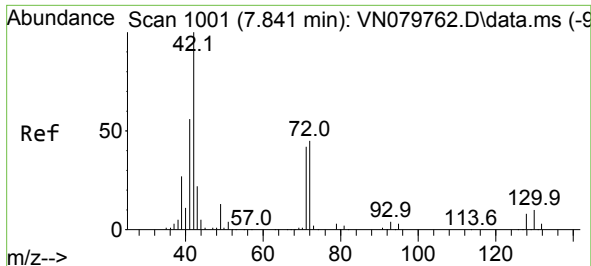
Tgt Ion: 43 Resp: 1374
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 5.594 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

Tgt Ion: 43 Resp: 10696
 Ion Ratio Lower Upper
 43 100
 72 27.6 30.2 45.2#

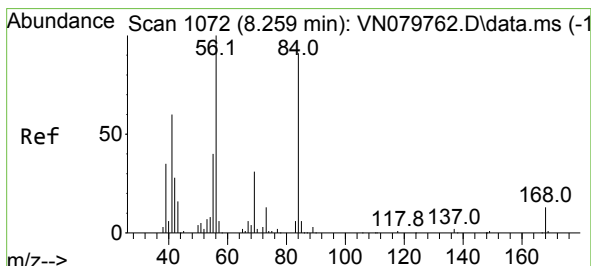
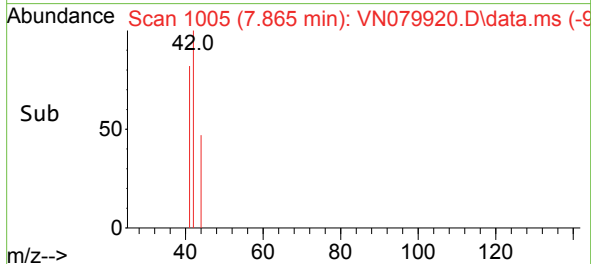
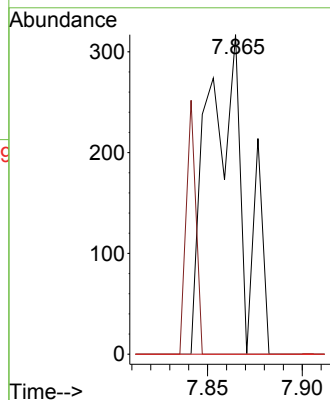
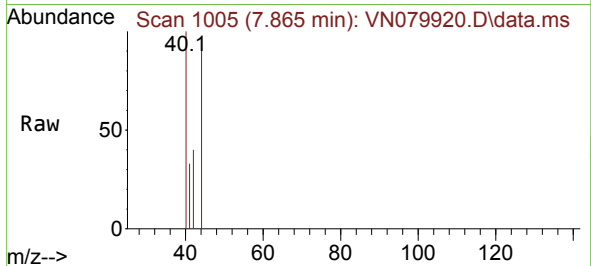




#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.024 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

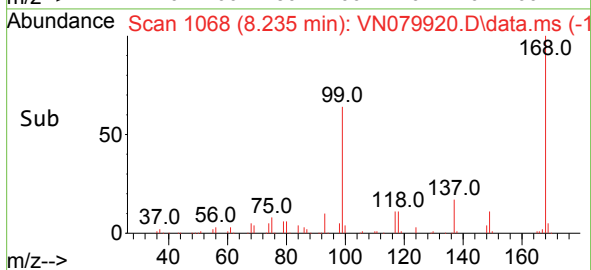
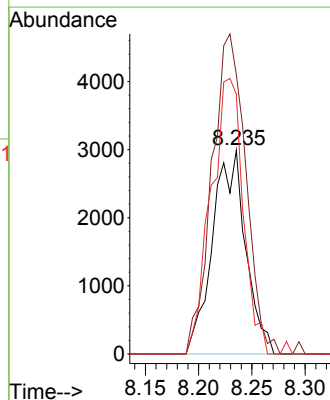
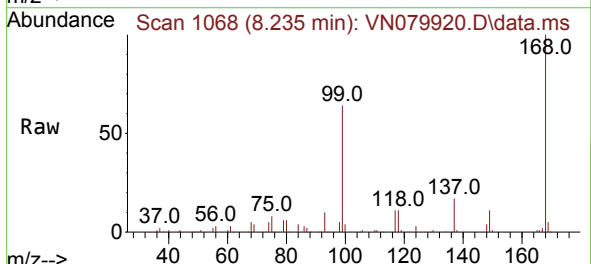
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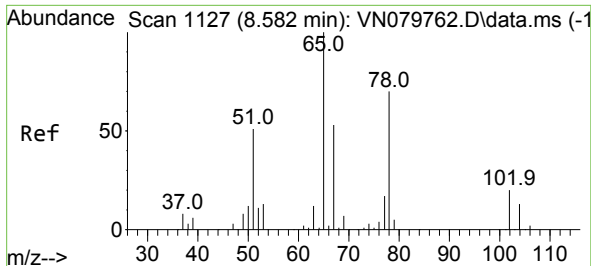
Tgt Ion: 42 Resp: 429
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.315 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.024 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 56 Resp: 6459
Ion Ratio Lower Upper
56 100
69 136.9 26.8 40.2#
84 127.4 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 60.855 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

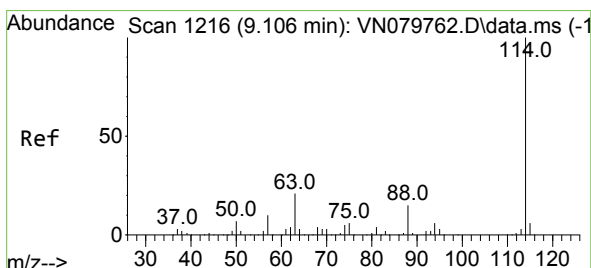
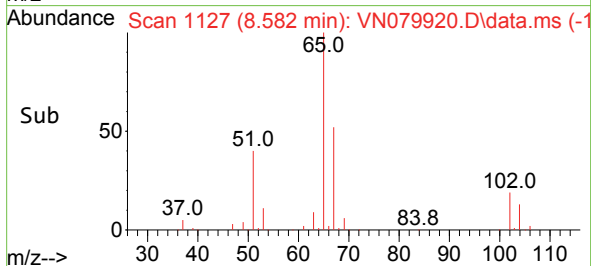
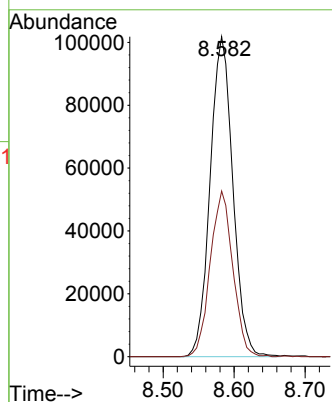
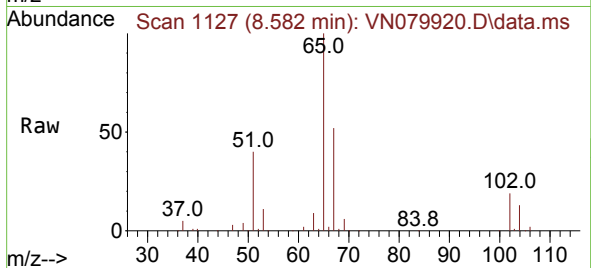
ClientSampleId :

Tgt Ion: 65 Resp: 226234

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

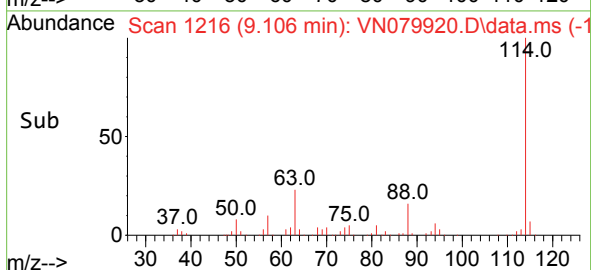
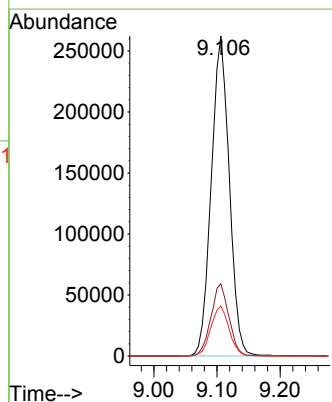
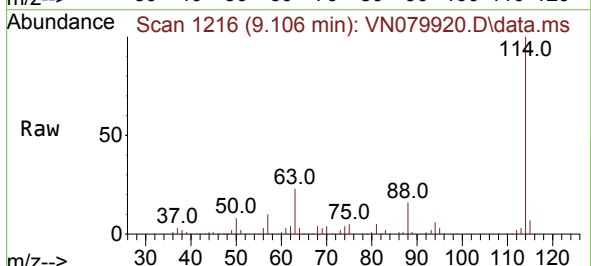
Tgt Ion: 114 Resp: 519797

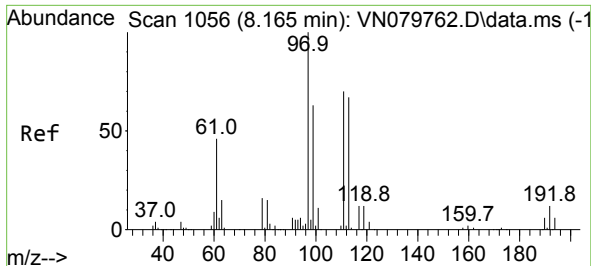
Ion Ratio Lower Upper

114 100

63 22.6 0.0 36.4

88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.048 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

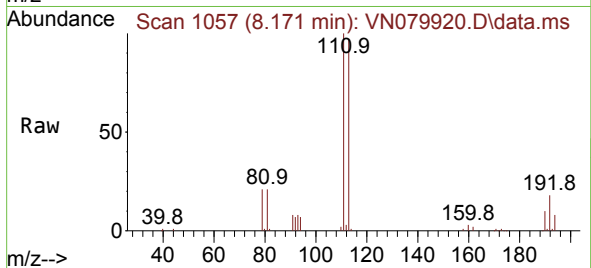
Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :



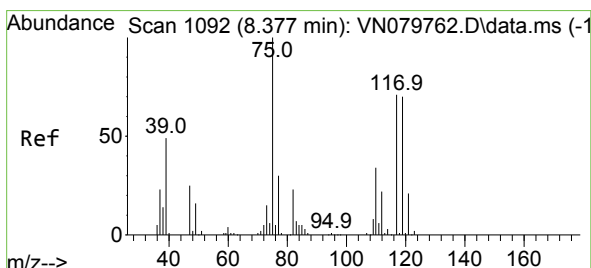
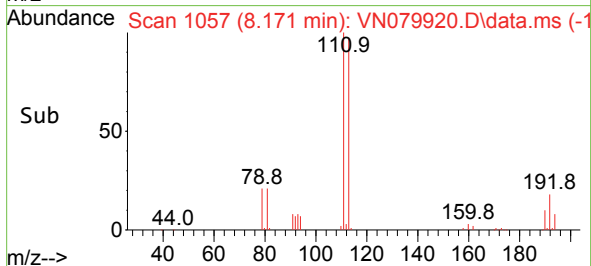
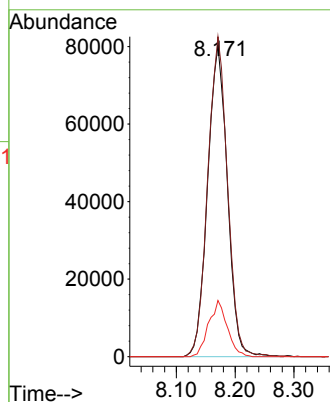
Tgt Ion:113 Resp: 187802

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 16.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.213 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

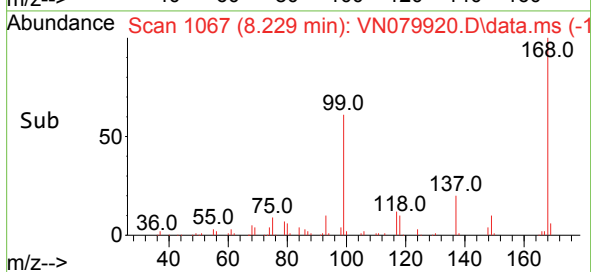
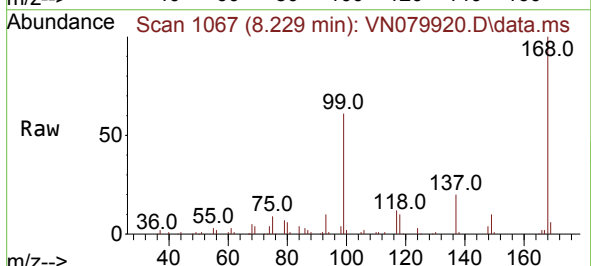
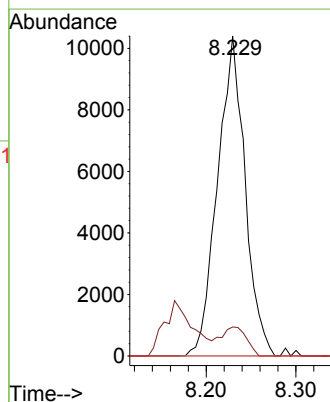
Tgt Ion: 75 Resp: 22131

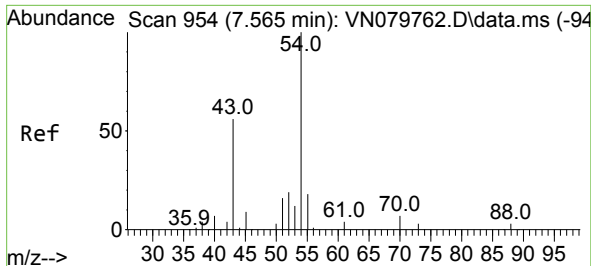
Ion Ratio Lower Upper

75 100

110 8.6 19.1 57.3#

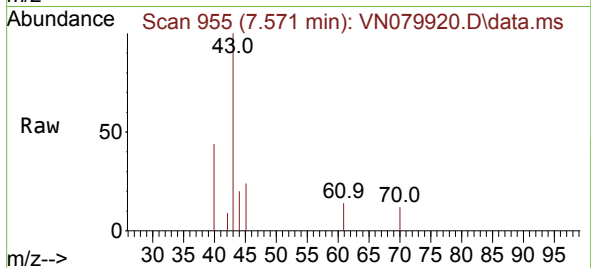
77 0.0 25.0 37.4#



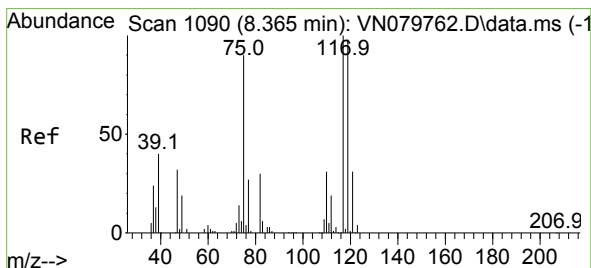
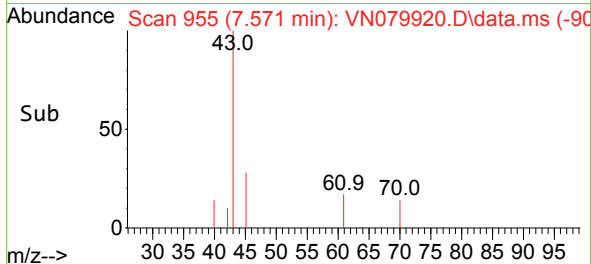
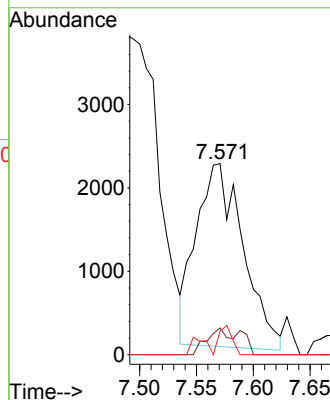


#37
Ethyl Acetate
Concen: 1.308 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Instrument :
MSVOA_N
ClientSampleId :

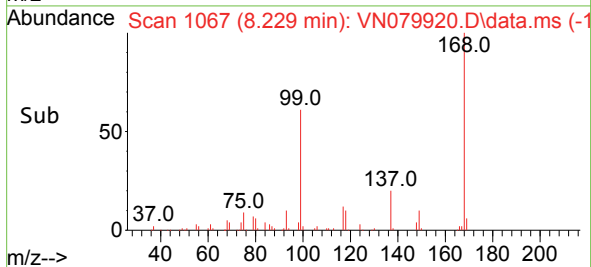
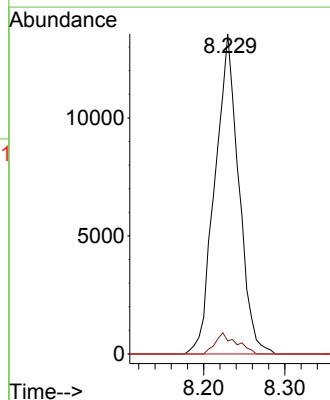
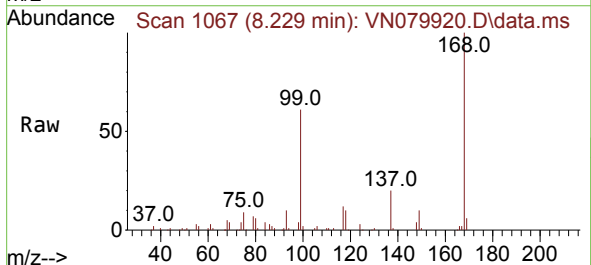


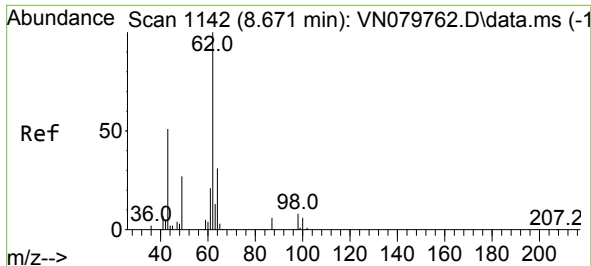
Tgt Ion: 43 Resp: 6303
Ion Ratio Lower Upper
43 100
61 7.2 13.2 19.8#
70 4.5 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.221 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 117 Resp: 27638
Ion Ratio Lower Upper
117 100
119 4.0 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.311 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

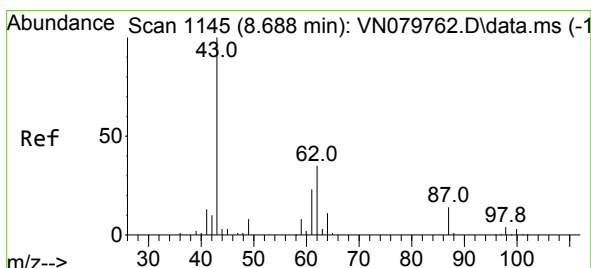
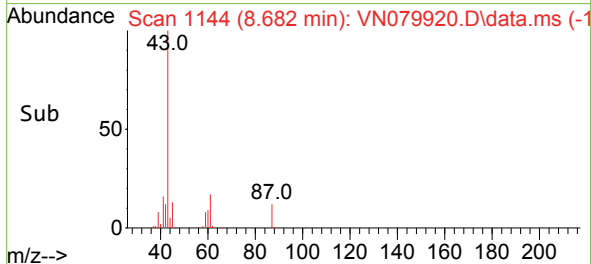
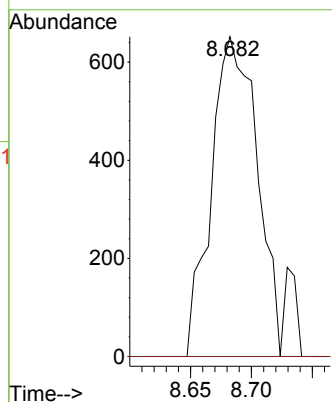
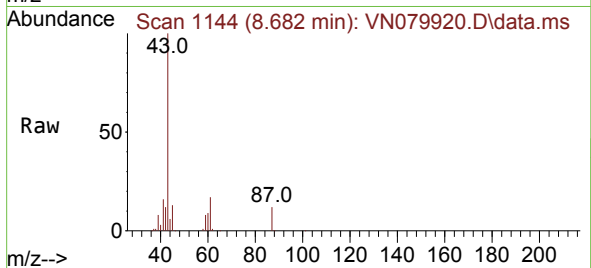
ClientSampleId :

Tgt Ion: 62 Resp: 1711

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 33.172 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

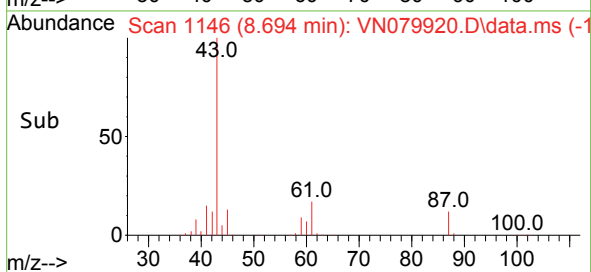
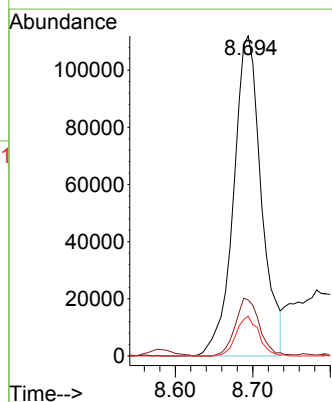
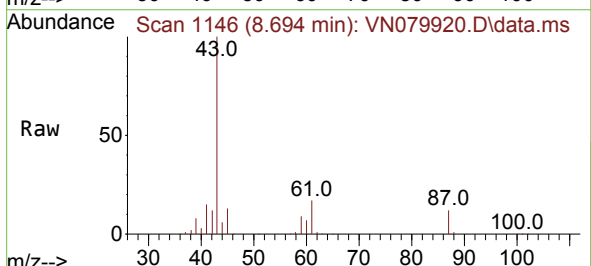
Tgt Ion: 43 Resp: 280248

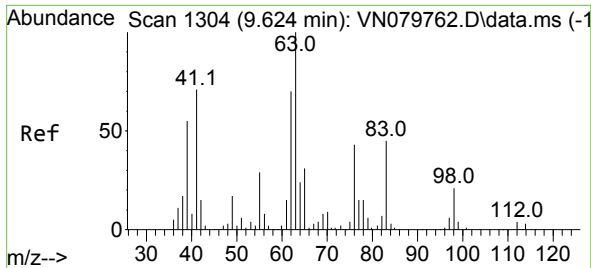
Ion Ratio Lower Upper

43 100

61 15.7 24.7 37.1#

87 10.0 14.6 21.8#

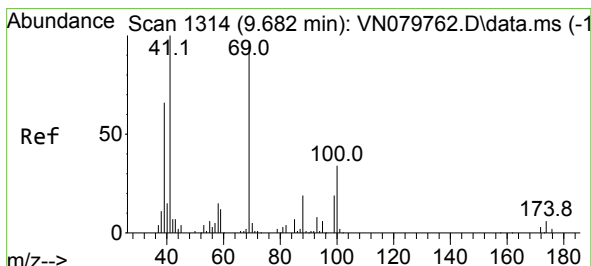
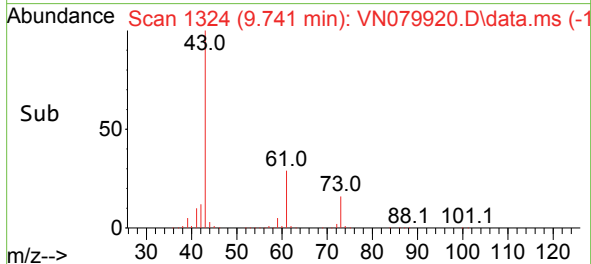
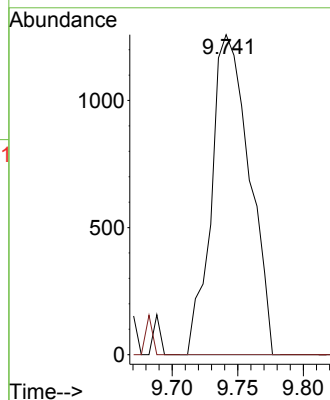
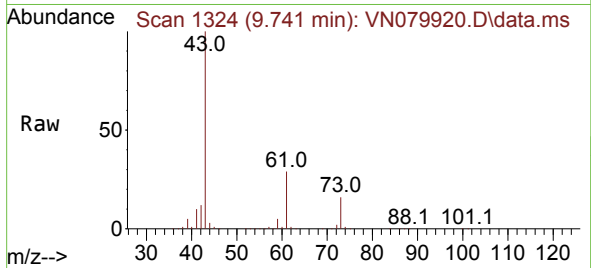




#45
1,2-Dichloropropane
Concen: 0.630 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

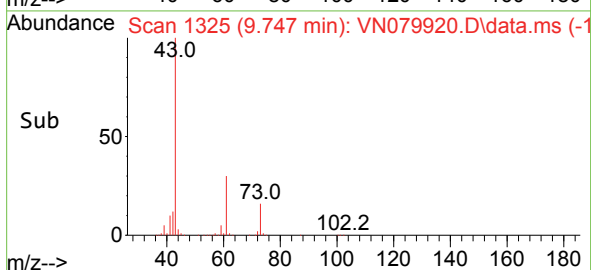
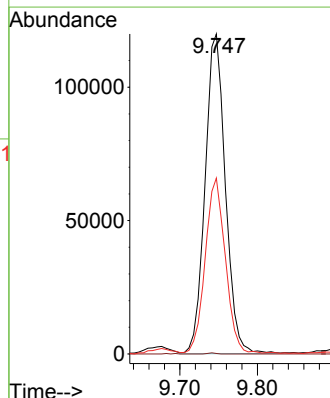
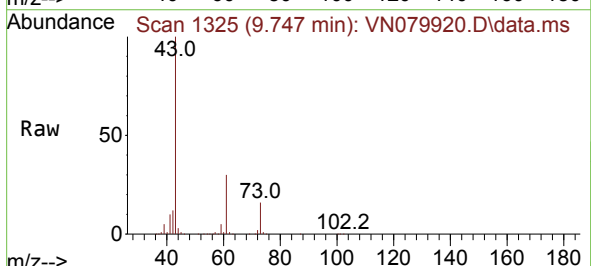
Instrument :
MSVOA_N
ClientSampleId :

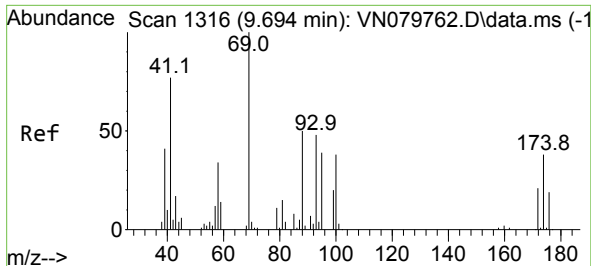
Tgt Ion: 63 Resp: 2535
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 58.916 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.065 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 41 Resp: 218021
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 54.1 54.6 81.8#





#49

1,4-Dioxane

Concen: 2.416 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :

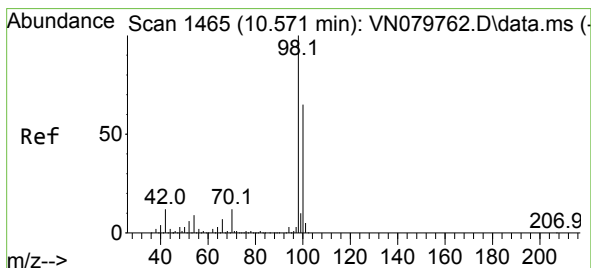
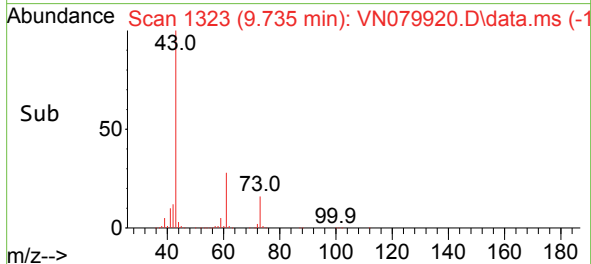
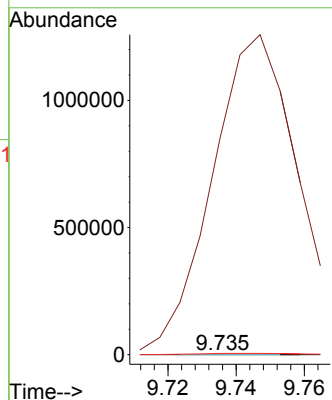
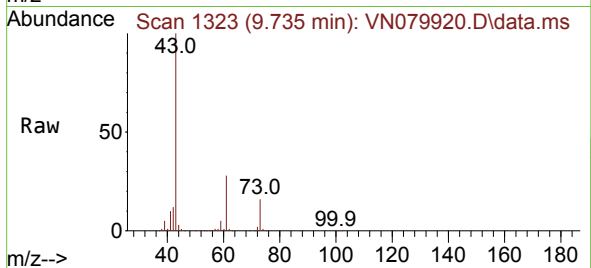
Tgt Ion: 88 Resp: 158

Ion Ratio Lower Upper

88 100

43 1427241.1 17.0 25.6#

58 7320.9 47.0 70.4#



#50

Toluene-d8

Concen: 51.588 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079920.D

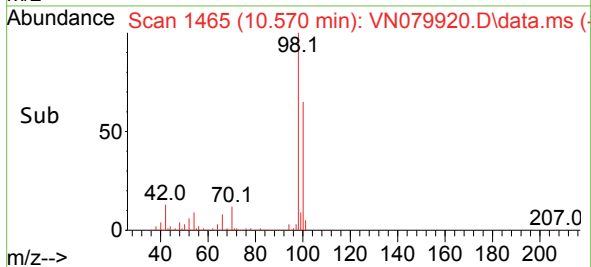
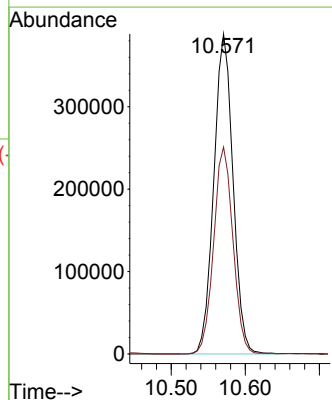
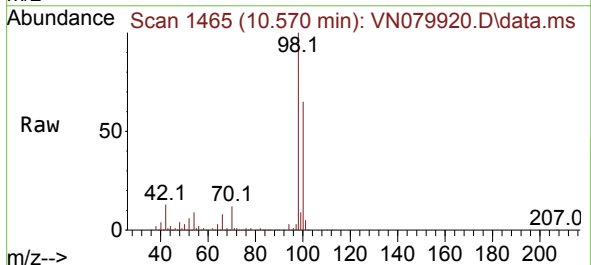
Acq: 06 Nov 2023 14:10

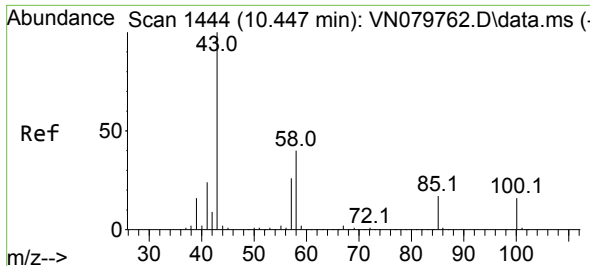
Tgt Ion: 98 Resp: 698683

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0

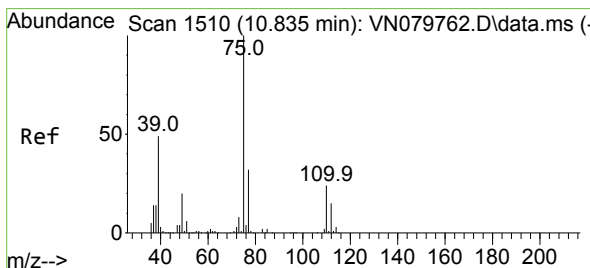
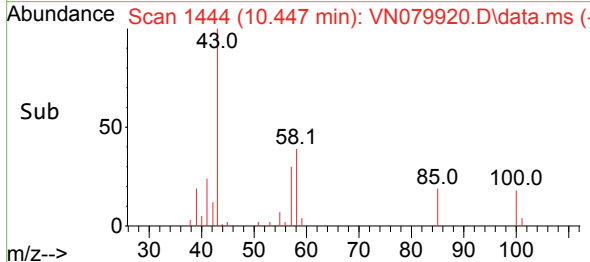
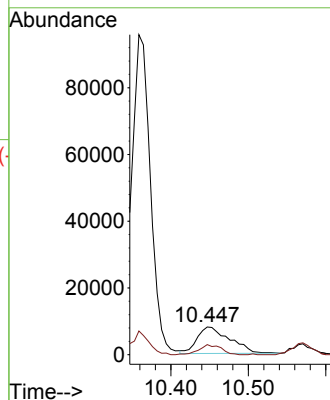
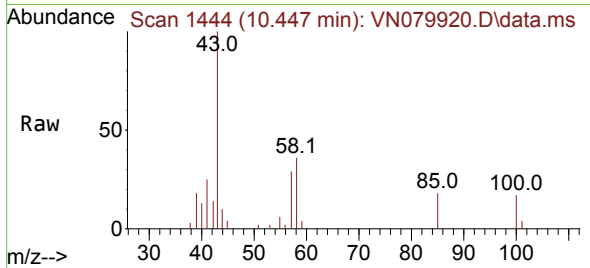




#51
4-Methyl-2-Pentanone
Concen: 4.899 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

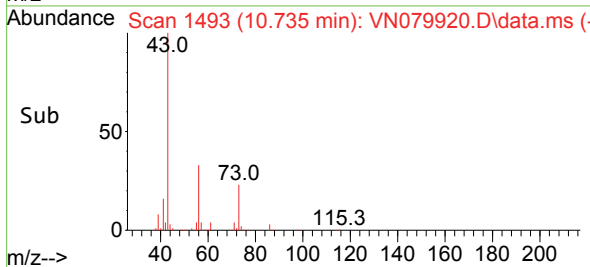
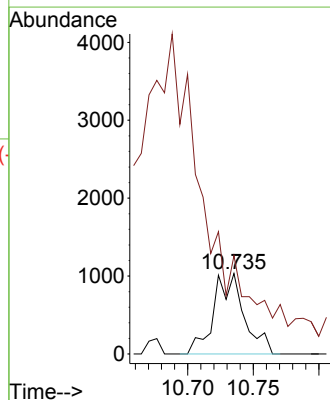
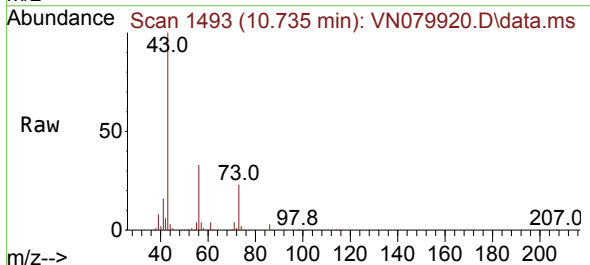
Instrument :
MSVOA_N
ClientSampleId :

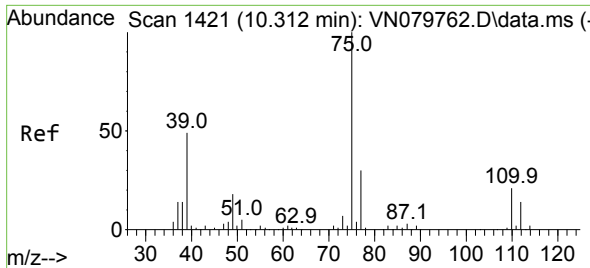
Tgt Ion: 43 Resp: 23300
Ion Ratio Lower Upper
43 100
58 25.4 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.291 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Tgt Ion: 75 Resp: 1669
Ion Ratio Lower Upper
75 100
77 60.6 25.4 38.0#

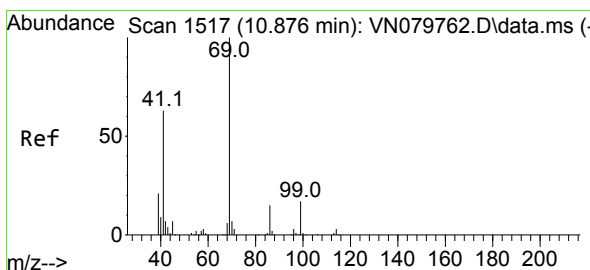
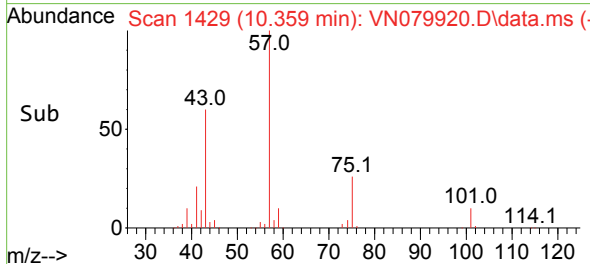
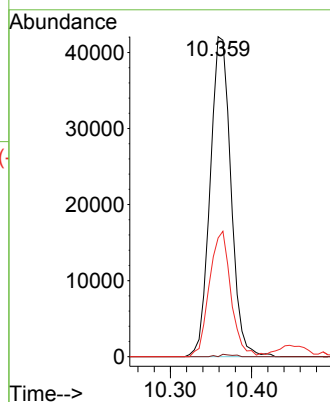
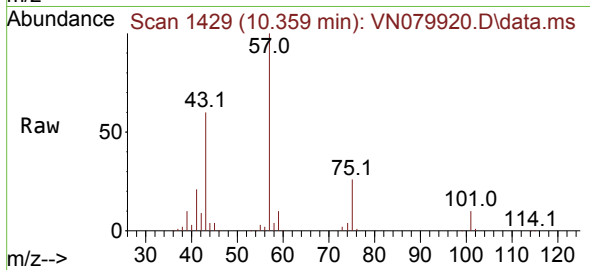




#54
 cis-1,3-Dichloropropene
 Concen: 11.952 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

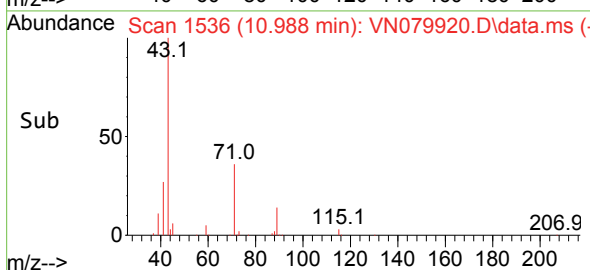
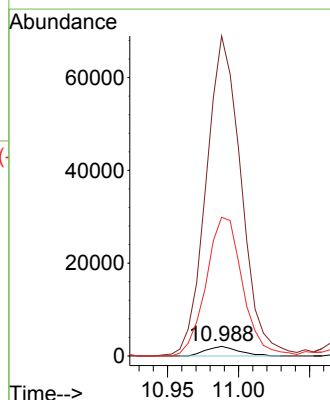
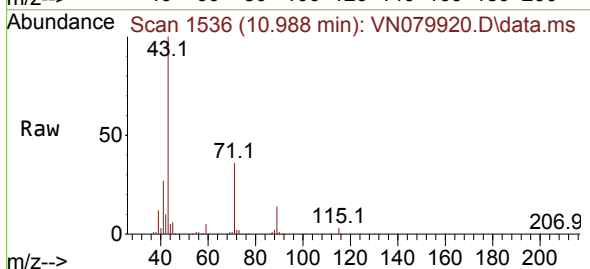
Instrument :
 MSVOA_N
 ClientSampleId :

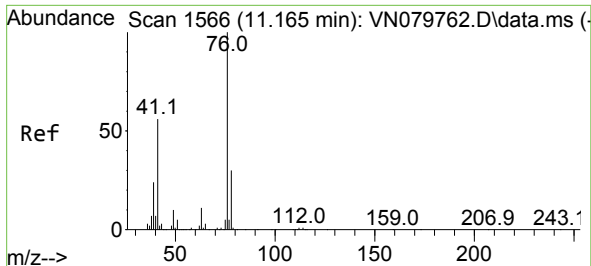
Tgt Ion: 75 Resp: 74775
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 37.1 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.621 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

Tgt Ion: 69 Resp: 3324
 Ion Ratio Lower Upper
 69 100
 41 3561.0 39.6 59.4#
 39 1603.6 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.624 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

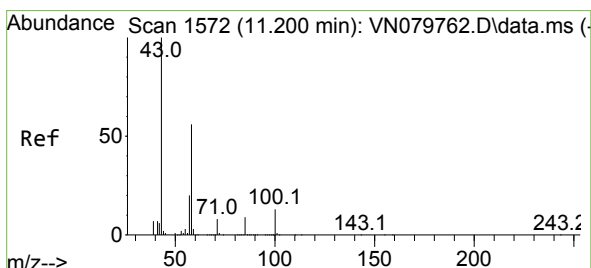
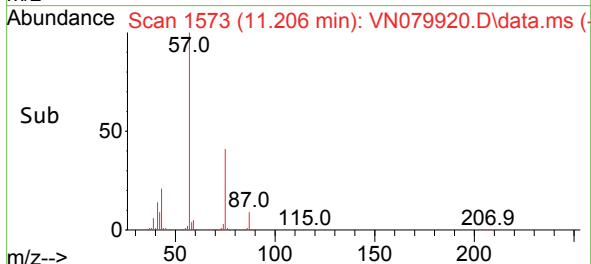
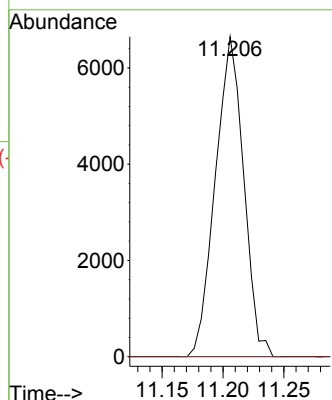
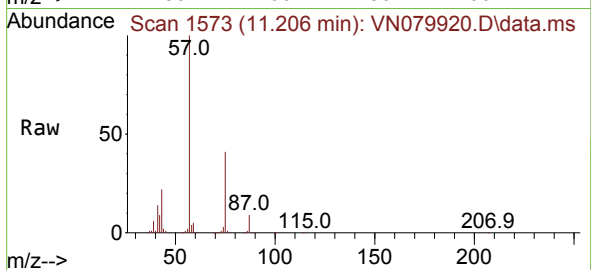
ClientSampleId :

Tgt Ion: 76 Resp: 10739

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 36.318 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079920.D

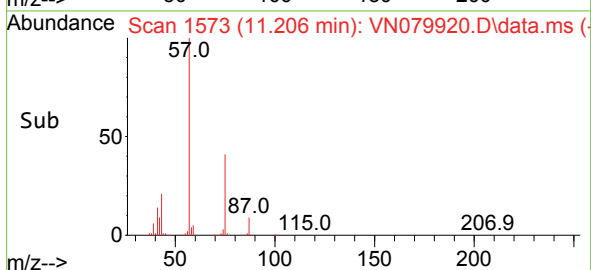
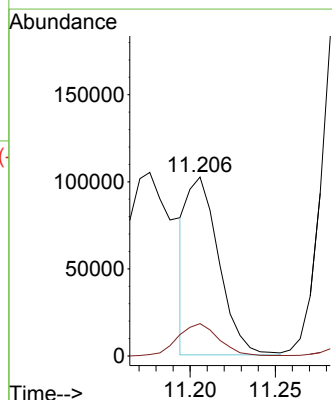
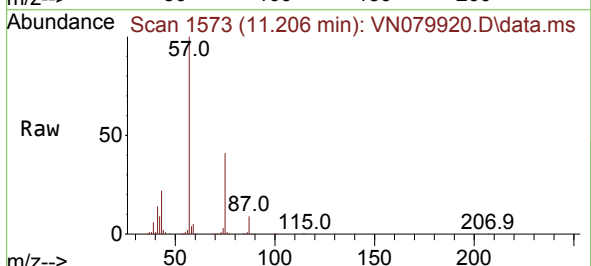
Acq: 06 Nov 2023 14:10

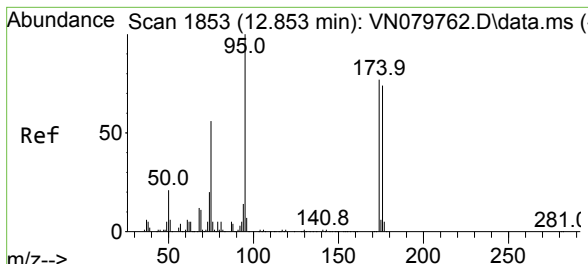
Tgt Ion: 43 Resp: 132147

Ion Ratio Lower Upper

43 100

58 23.8 31.7 95.1#



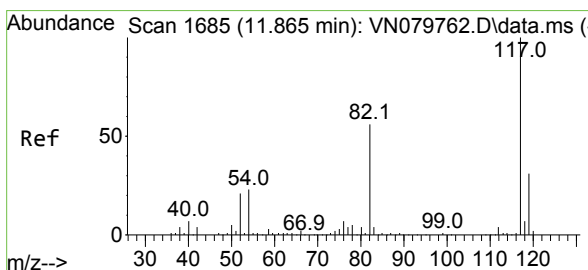
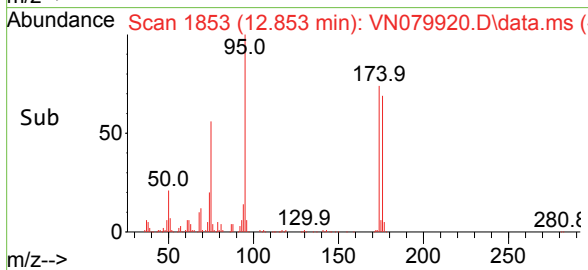
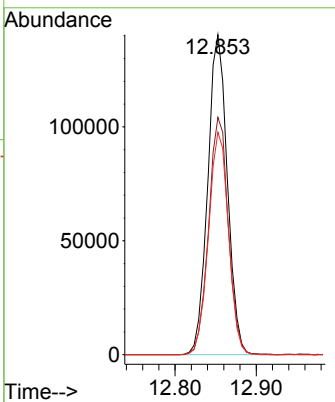
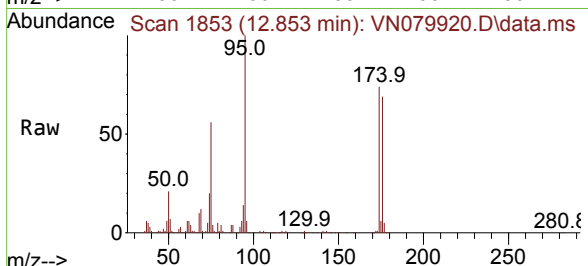


#62
 4-Bromofluorobenzene
 Concen: 52.476 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 95 Resp: 235703

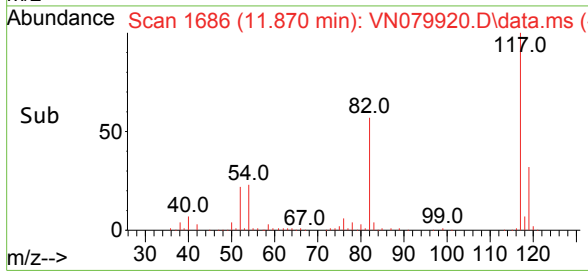
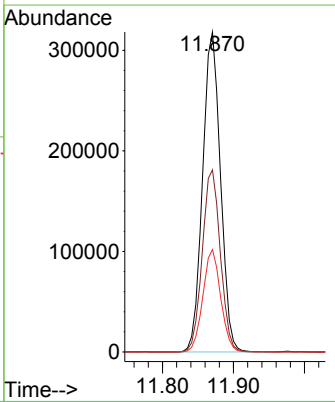
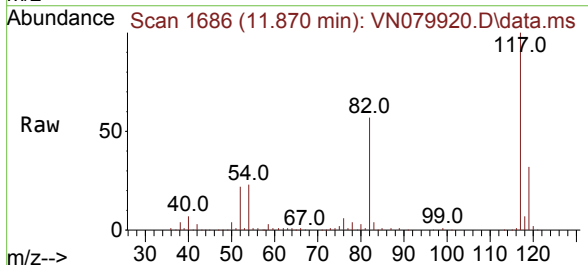
Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	143.8
176	70.6	0.0	135.8

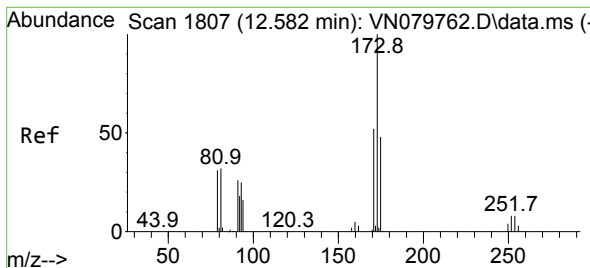


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

Tgt Ion: 117 Resp: 556359

Ion	Ratio	Lower	Upper
117	100		
82	56.9	44.0	66.0
119	32.0	25.6	38.4





#71

Bromoform

Concen: 0.496 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

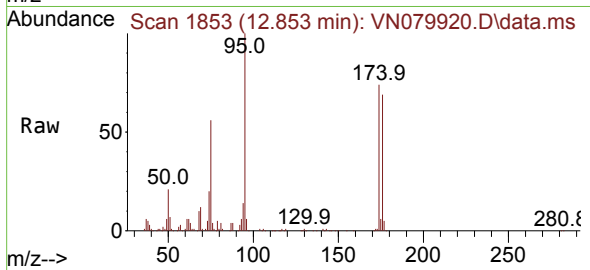
Lab File: VN079920.D

Acq: 06 Nov 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :



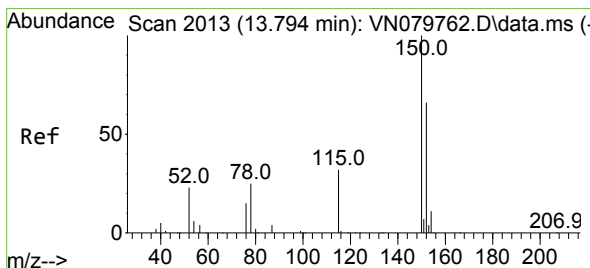
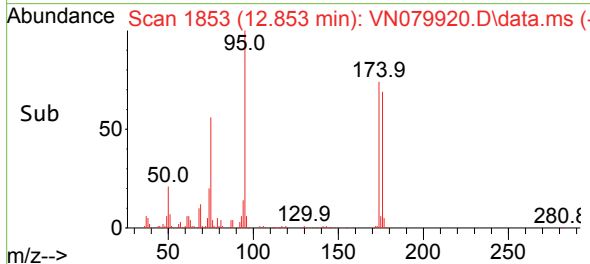
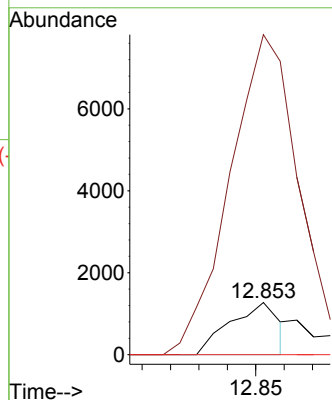
Tgt Ion:173 Resp: 1530

Ion Ratio Lower Upper

173 100

175 673.3 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: VN079920.D

Acq: 06 Nov 2023 14:10

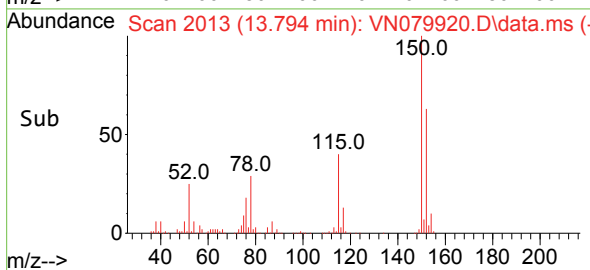
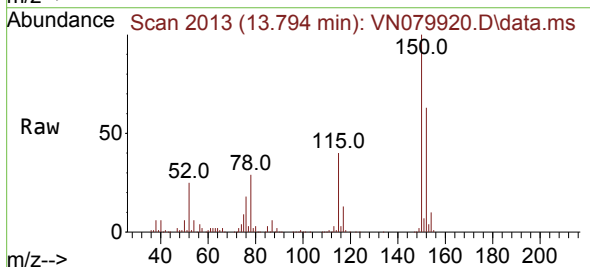
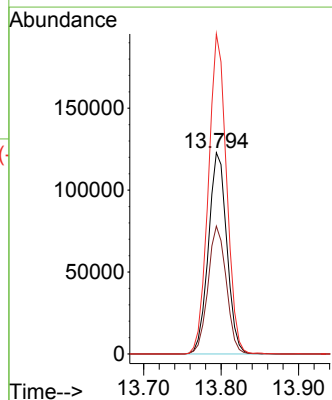
Tgt Ion:152 Resp: 202587

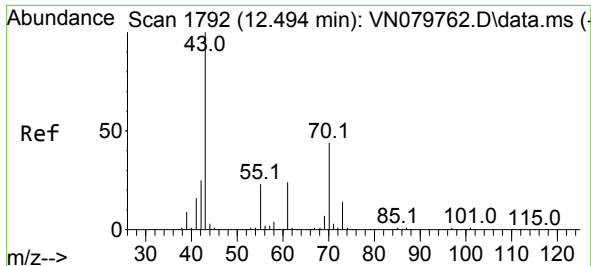
Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

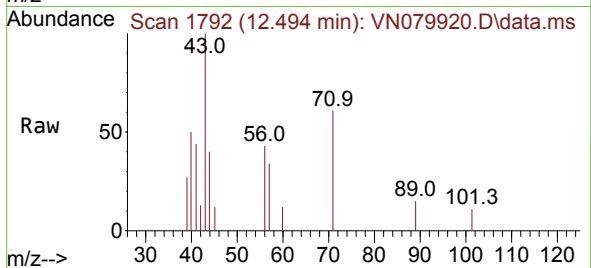
150 156.7 0.0 355.8



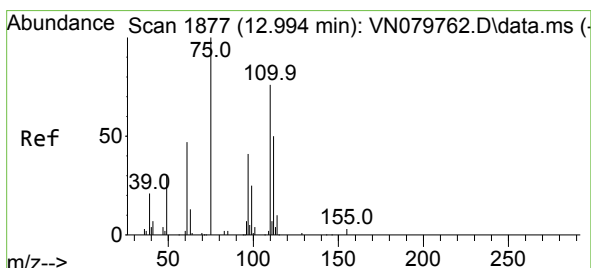
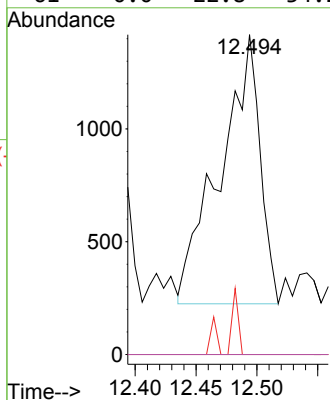
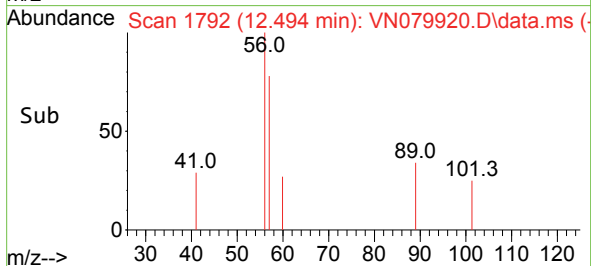


#74
N-amy1 acetate
Concen: 0.406 ug/l
RT: 12.494 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

Instrument :
MSVOA_N
ClientSampleId :

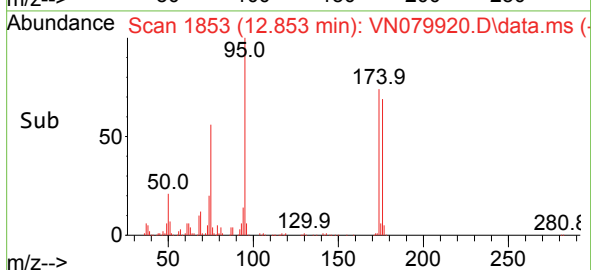
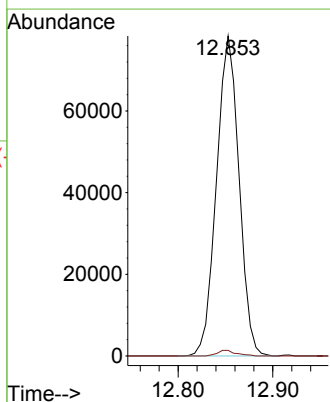
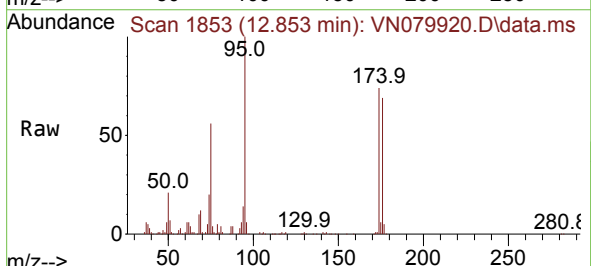


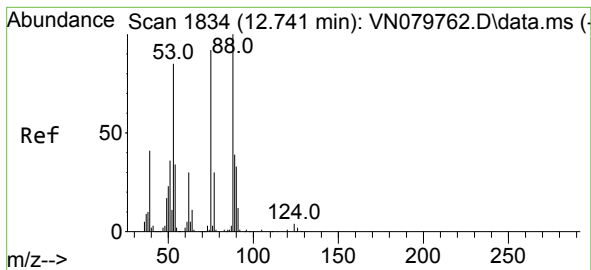
Tgt Ion: 43	Resp: 2722
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 3.8	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 27.255 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079920.D
Acq: 06 Nov 2023 14:10

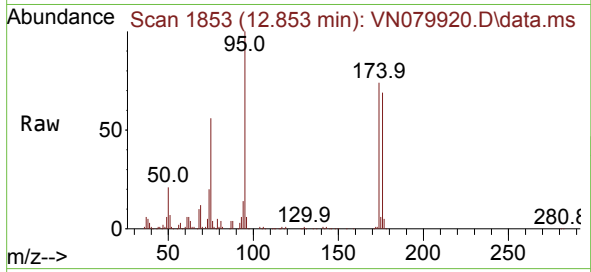
Tgt Ion: 75	Resp: 129631
Ion Ratio	Lower Upper
75 100	
77 1.5	84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.156 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079920.D
 Acq: 06 Nov 2023 14:10

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 129631
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#

